

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: P652565

Luminaire Tested: **GALN-SA8B-840-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652565
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-SA8B-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 27751.3 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

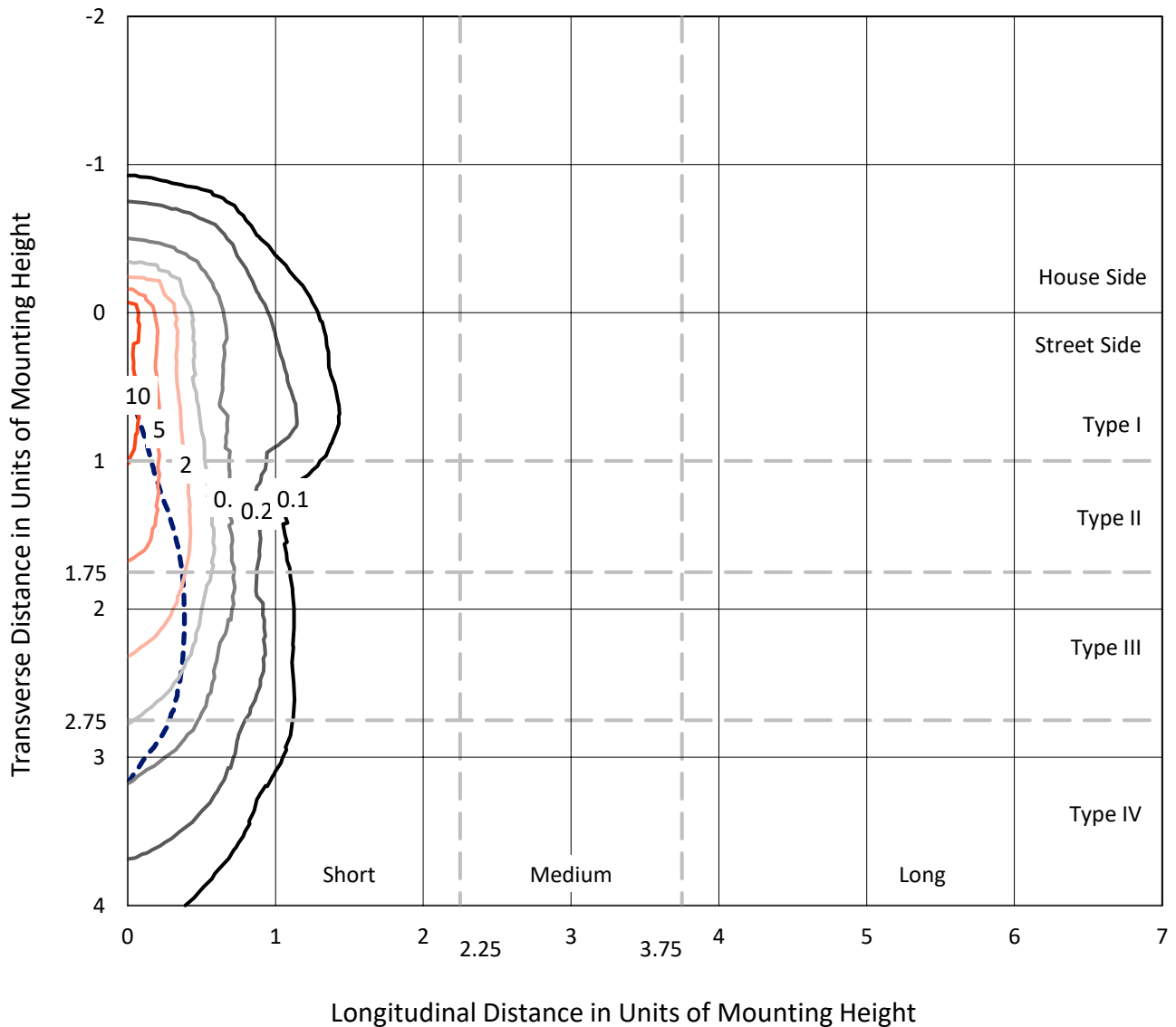
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

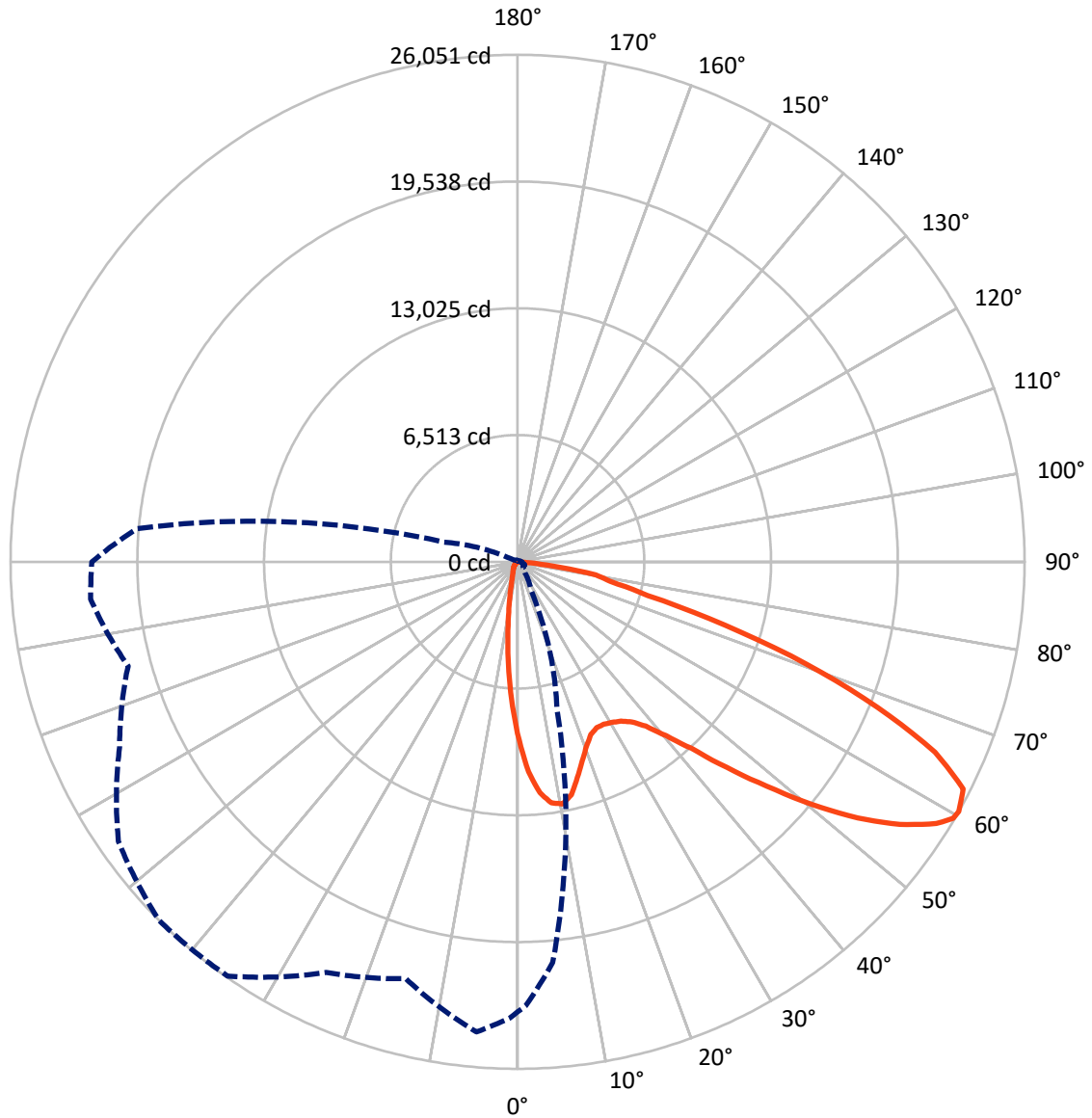
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 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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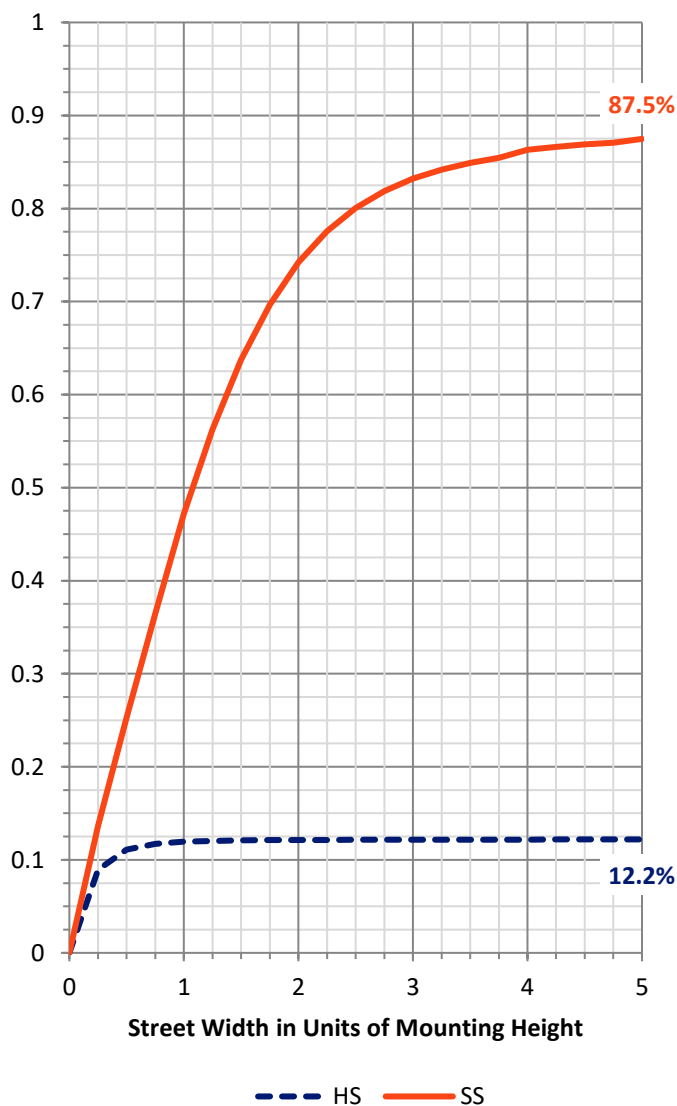
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3422.8	0.0	3422.8
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	24328.5	0.0	24328.5
	% Fixture	87.7	0.0	87.7
Total	Lumens	27751.3	0.0	27751.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	682.2	2.5
10°-20°	1354.8	4.9
20°-30°	1986.6	7.2
30°-40°	2954.4	10.6
40°-50°	4299.6	15.5
50°-60°	6200.3	22.3
60°-70°	6819.7	24.6
70°-80°	3054.7	11.0
80°-90°	399.1	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°	27751.3	100.0
0°-180°	27751.3	100.0

Coefficient of Utilization



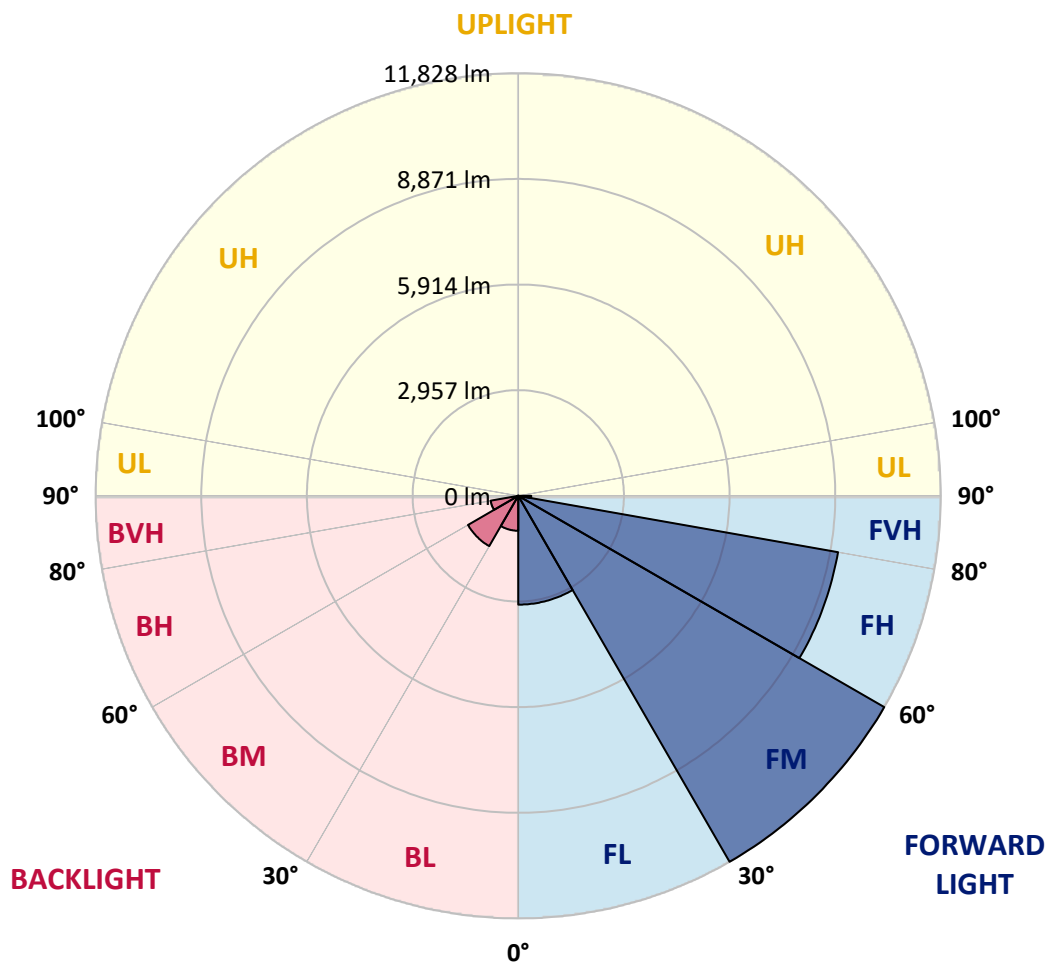
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3045.6	11.0			
FM (30°-60°)	11828.5	42.6			
FH (60°-80°)	9089.4	32.8			G4/12000
FVH (80°-90°)	365.0	1.3			G3/500
BL (0°-30°)	978.0	3.5	B2/1000		
BM (30°-60°)	1625.8	5.9	B2/2500		
BH (60°-80°)	784.9	2.8	B2/1000		G2/1000
BVH (80°-90°)	34.1	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9172.2	9172.2	9172.2	9172.2	9172.2	9172.2	9172.2	9172.2	9172.2	9172.2	9172.2
2.5°	10083.5	10039.2	9937.9	9630.0	9362.1	9011.9	8657.5	8379.1	8208.2	7893.8	7750.4
5°	9769.2	9790.3	9497.1	8864.2	8159.6	7678.7	7153.4	6735.7	6275.8	5984.7	5678.9
7.5°	8948.6	8906.4	8587.9	7706.1	6849.6	6153.5	5489.0	4948.9	4609.3	4337.2	4109.4
10°	8246.1	8214.5	7807.3	6672.4	5752.7	5231.6	4782.3	4309.8	3944.8	3546.1	3227.6
12.5°	7805.2	7733.5	7265.2	6079.7	5330.8	4845.6	4356.1	3864.6	3360.5	2957.5	2571.5
15°	7657.6	7554.2	7033.1	5875.1	5060.7	4444.8	3830.9	3265.5	2685.4	2240.3	1949.2
17.5°	7925.5	7754.6	7199.8	5839.1	4738.0	3921.6	3166.4	2430.2	1826.8	1487.2	1307.9
20°	8539.3	8343.1	7621.7	5803.3	4379.3	3335.2	2406.9	1717.2	1263.6	1078.0	978.8
22.5°	9450.7	9180.6	8246.1	5860.3	4048.2	2763.4	1738.3	1213.0	1004.2	888.1	818.5
25°	10545.5	10319.8	9037.2	6062.8	3786.6	2314.2	1343.7	991.5	845.9	774.2	721.5
27.5°	11745.8	11385.1	10060.3	6305.4	3548.2	1966.1	1179.3	886.0	753.1	687.7	660.3
30°	12600.2	12319.6	10916.8	6474.1	3250.8	1704.5	1078.0	873.4	755.2	677.2	626.5
32.5°	13444.0	13085.4	11634.1	6552.1	3033.5	1523.1	932.4	761.5	662.4	622.3	571.7
35°	14346.9	13971.4	12349.2	6510.0	2871.1	1402.9	845.9	679.3	567.4	500.0	449.3
37.5°	15260.3	14863.7	13060.1	6358.1	2769.8	1354.3	778.4	645.6	535.8	466.2	411.3
40°	16344.6	15815.1	13726.6	6233.7	2664.3	1329.0	734.1	624.4	512.6	438.7	383.9
42.5°	17230.6	16726.4	14357.4	6168.2	2592.6	1269.9	734.1	607.5	497.9	415.5	358.6
45°	18070.1	17547.0	15038.8	6221.0	2563.0	1196.1	742.5	605.4	487.3	398.7	341.8
47.5°	18772.6	18319.1	15739.1	6419.3	2525.1	1115.9	698.3	635.0	481.0	383.9	324.9
50°	19601.7	19162.9	16665.3	6820.1	2457.6	1035.8	643.4	683.5	478.9	371.3	310.1
52.5°	20770.3	20295.7	17943.6	7275.7	2350.0	913.4	592.7	677.2	470.5	350.2	295.4
55°	22198.5	21814.6	19424.5	7822.1	2202.3	776.3	512.6	601.2	445.1	314.3	270.0
57.5°	23114.0	22787.1	20534.1	8058.4	1976.6	635.0	451.4	504.2	407.1	280.6	240.5
59°	23221.6	22926.3	20766.1	7980.3	1828.9	580.1	421.9	432.4	396.6	261.6	223.6
60°	23130.9	22825.1	20673.3	7828.4	1691.8	542.1	396.6	383.9	398.7	251.0	210.9
62.5°	22548.7	22025.5	19772.6	7058.4	1478.8	497.9	352.3	314.3	352.3	225.7	187.7
65°	21424.3	20639.6	17990.0	5974.2	1394.4	472.6	299.6	263.7	267.9	198.3	162.4
67.5°	19460.3	18471.0	15616.8	4854.0	1358.6	474.7	253.1	236.2	206.7	168.8	143.5
70°	16355.1	15367.8	12530.6	3993.3	1341.6	474.7	215.2	202.5	173.0	141.4	124.5
72.5°	11589.7	10526.5	8452.9	3136.8	1208.8	472.6	183.5	183.5	141.4	118.2	101.3
75°	6547.9	6556.4	5313.9	2219.2	1004.2	390.2	147.7	145.6	103.4	90.7	75.9
77.5°	3816.1	3748.6	3582.0	953.5	466.2	177.2	103.4	88.6	71.7	65.4	54.8
80°	1961.9	1613.8	1571.6	346.0	166.7	111.8	71.7	50.6	46.4	42.2	38.0
82.5°	580.1	582.2	519.0	139.3	92.8	73.8	35.8	27.4	25.3	23.2	23.2
85°	40.1	25.3	29.5	42.2	56.9	29.5	2.1	6.3	6.3	8.4	10.5
87.5°	4.2	2.1	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°	9172.2	9172.2	9172.2	9172.2	9172.2	9172.2	9172.2	9172.2	9172.2	9172.2	9172.2
2.5°	7592.2	7685.0	7512.0	7516.3	7372.8	7419.2	7250.4	7305.3	7206.1	7282.1	7505.7
5°	5712.6	5733.7	5594.4	5550.2	5571.3	5657.7	5691.5	5537.5	5602.9	5474.2	5465.7
7.5°	4024.9	4050.3	3970.1	3959.6	4111.5	4075.6	4141.0	3982.8	3833.0	3898.4	3778.2
10°	3126.3	3020.9	2856.3	2809.9	2780.3	2799.4	2799.4	2655.9	2634.8	2577.8	2664.3
12.5°	2468.2	2339.5	2183.3	1972.4	1919.7	1915.5	1837.4	1710.8	1670.7	1622.2	1693.9
15°	1793.1	1740.4	1609.6	1491.4	1371.2	1348.0	1221.4	1118.0	980.9	961.9	955.6
17.5°	1261.5	1183.5	1181.4	1113.8	1044.2	997.8	879.7	761.5	708.8	702.5	702.5
20°	945.0	917.6	873.4	864.9	843.8	791.0	685.6	622.3	597.0	599.1	607.5
22.5°	795.2	776.3	736.2	717.2	708.8	662.4	584.3	542.1	529.5	529.5	531.6
25°	710.9	694.0	649.8	620.2	609.6	575.9	514.7	483.1	472.6	472.6	472.6
27.5°	647.7	626.5	580.1	554.8	535.8	497.9	459.9	428.2	417.7	417.7	419.8
30°	603.3	580.1	537.9	504.2	474.7	440.9	409.2	381.8	369.2	367.1	369.2
32.5°	544.3	523.2	481.0	459.9	426.1	386.0	360.7	335.4	322.8	324.9	322.8
35°	424.0	417.7	388.1	394.5	375.5	341.8	318.6	291.2	276.4	274.3	278.5
37.5°	386.0	360.7	327.0	329.1	322.8	310.1	272.1	242.6	232.0	232.0	234.1
40°	356.5	331.2	293.3	274.3	276.4	276.4	236.2	204.6	194.1	192.0	196.2
42.5°	331.2	305.9	263.7	232.0	223.6	234.1	200.4	168.8	158.2	154.0	158.2
45°	314.3	286.9	238.3	202.5	177.2	189.9	164.6	139.3	126.6	126.6	124.5
47.5°	297.5	272.1	219.4	175.1	147.7	141.4	135.0	111.8	99.2	97.1	99.2
50°	282.7	257.3	198.3	151.9	124.5	109.7	109.7	88.6	80.1	75.9	78.0
52.5°	267.9	240.5	179.3	135.0	107.6	88.6	78.0	71.7	65.4	63.3	65.4
55°	246.8	219.4	160.3	116.1	92.8	73.8	61.1	59.0	54.8	50.6	54.8
57.5°	221.5	196.2	141.4	99.2	73.8	56.9	50.6	48.5	44.3	42.2	42.2
59°	206.7	183.5	130.8	86.5	65.4	50.6	46.4	44.3	40.1	35.8	38.0
60°	198.3	179.3	124.5	80.1	59.0	46.4	42.2	40.1	35.8	33.7	35.8
62.5°	175.1	160.3	109.7	65.4	46.4	33.7	29.5	31.6	29.5	27.4	29.5
65°	154.0	141.4	92.8	50.6	35.8	23.2	21.1	27.4	25.3	23.2	25.3
67.5°	137.1	122.4	78.0	38.0	25.3	12.7	14.8	23.2	23.2	21.1	23.2
70°	118.2	105.5	63.3	27.4	12.7	6.3	10.5	16.9	21.1	19.0	21.1
72.5°	97.1	82.2	48.5	19.0	6.3	0.0	6.3	14.8	21.1	19.0	21.1
75°	75.9	61.1	35.8	10.5	0.0	0.0	2.1	12.7	21.1	19.0	21.1
77.5°	54.8	44.3	21.1	2.1	0.0	0.0	2.1	12.7	21.1	19.0	21.1
80°	35.8	31.6	8.4	0.0	0.0	0.0	2.1	12.7	21.1	21.1	23.2
82.5°	23.2	16.9	0.0	0.0	0.0	0.0	4.2	16.9	23.2	25.3	25.3
85°	10.5	0.0	0.0	0.0	0.0	0.0	8.4	21.1	27.4	27.4	27.4
87.5°	0.0	0.0	0.0	0.0	0.0	4.2	14.8	25.3	31.6	31.6	31.6
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°	9172.2	9172.2	9172.2	9172.2	9172.2	9172.2	9172.2	9172.2	9172.2	9172.2	9172.2
2.5°	7543.7	7676.6	7864.3	8153.3	8387.5	8756.7	9039.3	9425.3	9815.6	9933.7	10117.3
5°	5552.3	5723.2	6149.2	6537.4	6782.1	7562.6	8056.3	8834.7	9532.9	9868.4	10233.3
7.5°	3856.2	4058.8	4383.6	4925.7	5440.4	6075.5	6872.8	7763.0	8786.2	9265.0	9779.7
10°	2706.5	2959.6	3417.4	3862.5	4510.2	5113.4	5900.4	6883.3	8012.0	8577.4	9222.8
12.5°	1708.7	1934.5	2539.9	3039.8	3847.7	4548.1	5273.8	6164.0	7471.9	8052.1	8729.2
15°	976.7	1166.6	1449.2	2090.6	2987.1	3913.2	4818.2	5851.8	7195.6	7910.7	8642.7
17.5°	727.8	778.4	905.0	1267.8	2084.3	3166.4	4398.3	5756.9	7383.3	8223.0	9058.3
20°	611.7	645.6	704.6	848.1	1329.0	2438.6	3989.1	5773.8	7990.8	9045.6	9838.8
22.5°	548.5	569.6	618.1	710.9	907.1	1776.2	3510.2	5872.9	8727.1	10056.1	10971.6
25°	481.0	508.4	550.6	630.8	755.2	1232.0	3037.7	6094.4	9758.6	11338.7	12199.4
27.5°	428.2	453.6	495.8	569.6	662.4	940.8	2487.1	6284.3	10847.1	12629.7	13334.3
30°	375.5	400.8	443.0	502.1	586.4	761.5	1894.4	6396.1	11904.0	13598.0	14140.2
32.5°	331.2	352.3	392.4	445.1	514.7	645.6	1493.5	6280.1	12712.0	14477.6	14840.5
35°	286.9	312.2	346.0	394.5	455.7	550.6	1242.5	5879.3	13406.0	15382.6	15513.4
37.5°	240.5	270.0	305.9	350.2	398.7	506.3	997.8	5436.2	14148.6	16511.3	16296.1
40°	202.5	229.9	263.7	312.2	356.5	464.1	767.8	4963.8	14950.2	17570.3	17150.4
42.5°	164.6	194.1	234.1	278.5	352.3	405.0	594.9	4474.3	15669.5	18492.1	17922.6
45°	130.8	156.1	198.3	255.2	350.2	348.1	459.9	3991.2	16211.7	19150.2	18498.4
47.5°	103.4	124.5	166.7	248.9	322.8	295.4	369.2	3691.7	16781.2	19743.1	18939.3
50°	82.2	103.4	143.5	259.4	282.7	253.1	310.1	3740.2	17331.8	20044.7	19120.7
52.5°	69.6	90.7	124.5	204.6	217.3	221.5	272.1	3963.8	18042.7	20367.4	19481.4
55°	61.1	80.1	105.5	143.5	168.8	198.3	248.9	4126.2	18994.2	21059.4	20276.8
57.5°	48.5	69.6	94.9	122.4	139.3	173.0	229.9	4138.9	19854.8	21947.5	21333.6
59°	44.3	63.3	88.6	116.1	124.5	156.1	217.3	4031.3	19886.5	22080.4	21818.8
60°	40.1	61.1	84.4	107.6	118.2	147.7	206.7	3906.9	19599.6	21869.4	22019.2
62.5°	33.7	52.7	73.8	86.5	101.3	122.4	179.3	3455.4	18209.4	20913.8	21647.9
65°	29.5	46.4	63.3	71.7	84.4	105.5	158.2	2765.5	16673.7	19618.6	20584.7
67.5°	27.4	42.2	54.8	61.1	73.8	97.1	141.4	1953.4	14684.4	17975.3	18987.8
70°	25.3	40.1	48.5	56.9	65.4	82.2	120.3	1139.1	11311.3	15093.7	16163.2
72.5°	25.3	38.0	42.2	48.5	56.9	73.8	111.8	615.9	7733.5	11513.8	12895.6
75°	25.3	35.8	38.0	42.2	50.6	67.5	99.2	322.8	4999.6	7999.3	9872.6
77.5°	25.3	33.7	38.0	40.1	48.5	59.0	86.5	202.5	3330.9	5602.9	6672.4
80°	27.4	33.7	35.8	40.1	46.4	54.8	71.7	135.0	1957.6	3371.0	4060.9
82.5°	29.5	33.7	38.0	42.2	48.5	52.7	63.3	84.4	902.9	2229.7	2523.0
85°	31.6	35.8	40.1	44.3	50.6	52.7	59.0	61.1	147.7	1006.3	1360.7
87.5°	33.7	38.0	42.2	46.4	54.8	54.8	54.8	54.8	50.6	107.6	274.3
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: P652565

CATALOG NUMBER: GALN-SA8B-840-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9172.2	9172.2	9172.2	9172.2	9172.2	9172.2	9172.2	9172.2	9172.2	9172.2
2.5°	10349.3	10587.7	10754.4	10796.5	10676.3	10621.4	10469.5	10233.3	10089.8	10083.5
5°	10906.3	11465.3	11853.4	11918.8	11686.8	11294.4	10828.2	10227.0	9874.7	9769.2
7.5°	10811.3	11790.1	12414.5	12505.2	12115.0	11366.1	10463.2	9495.0	9111.1	8948.6
10°	10421.1	11615.1	12507.4	12650.8	12129.7	11075.0	9927.4	8847.3	8370.6	8246.1
12.5°	10087.7	11294.4	12087.6	12285.8	11891.4	10838.7	9606.7	8431.8	7921.3	7805.2
15°	9942.2	10914.7	11399.8	11501.1	11435.7	10691.0	9573.0	8368.5	7784.1	7657.6
17.5°	10087.7	10591.9	10653.1	10756.5	10902.1	10676.3	9897.9	8712.3	8081.6	7925.5
20°	10469.5	10311.3	10058.2	10102.5	10435.8	10737.5	10475.9	9473.9	8706.0	8539.3
22.5°	11119.3	10241.7	9668.0	9630.0	10051.9	10942.1	11323.9	10505.4	9615.2	9450.7
25°	11916.7	10416.8	9524.5	9442.2	9902.1	11241.6	12245.8	11769.0	10796.5	10545.5
27.5°	12785.8	10779.7	9524.5	9444.3	9889.5	11507.5	13034.7	12887.1	12020.1	11745.8
30°	13262.6	11079.2	9661.6	9570.9	10045.6	11661.5	13456.7	13880.7	12939.8	12600.2
32.5°	13688.7	11494.8	9929.5	9758.6	10372.6	11889.3	13834.3	14724.5	13671.8	13444.0
35°	14081.0	11939.9	10298.7	10100.4	10802.9	12201.5	14251.9	15610.5	14690.8	14346.9
37.5°	14513.6	12456.7	10874.6	10705.8	11522.2	12809.0	14747.7	16774.9	15692.7	15260.3
40°	14983.9	13055.9	11821.8	11750.0	12665.5	13496.7	15374.2	18017.4	16836.1	16344.6
42.5°	15462.8	13745.6	12982.0	13100.2	13960.9	14460.7	16017.6	18973.0	17772.8	17230.6
45°	15897.3	14627.4	14490.3	15074.7	15471.2	15401.7	16494.4	19646.0	18589.1	18070.1
47.5°	16445.8	15912.1	16315.1	17215.9	17226.4	16424.7	16855.1	20196.6	19291.6	18772.6
50°	17059.7	17428.9	18671.4	19589.0	19342.2	17431.0	17277.0	20848.4	20017.2	19601.7
52.5°	17770.6	19127.0	20848.4	21867.3	21291.4	18527.9	17979.5	21553.0	21169.1	20770.3
55°	18597.5	20285.2	23019.1	23831.2	23251.1	19890.7	19046.9	22508.6	22470.7	22198.5
57.5°	19532.1	21508.7	24276.4	25375.5	24858.6	21489.7	20538.3	23409.4	23265.9	23114.0
59°	20270.4	22137.3	24831.2	25970.3	25658.2	22609.9	21540.4	23970.5	23449.4	23221.6
60°	20717.6	22563.4	25035.8	26050.5	25978.7	23276.4	22175.3	24244.8	23447.3	23130.9
62.5°	22044.5	23308.1	24957.8	25694.0	25974.5	24554.8	24038.1	24546.4	23012.8	22548.7
65°	22517.0	23061.3	23664.6	23573.9	23814.4	24489.4	25227.8	24215.2	22084.6	21424.3
67.5°	21597.3	20354.8	20567.8	19962.4	19844.3	21772.4	24744.7	22595.1	20268.3	19460.3
70°	18205.2	15593.6	15486.0	15764.5	15000.8	17627.2	22219.6	19475.1	17270.7	16355.1
72.5°	14330.0	11020.1	10113.0	11138.3	11115.1	13448.2	18458.4	13819.5	11667.8	11589.7
75°	11269.1	7672.4	6733.6	6900.2	7220.9	9735.4	14701.3	8775.6	7185.0	6547.9
77.5°	7564.7	5436.2	5071.3	4866.7	5212.6	6250.5	9300.9	4759.1	4029.2	3816.1
80°	4360.4	3949.0	4484.9	4071.4	4257.1	3938.5	4626.2	2183.3	1812.1	1961.9
82.5°	2837.3	2248.7	2396.4	1780.4	2434.4	2455.5	1485.1	645.6	546.4	580.1
85°	1774.1	1054.8	592.7	421.9	839.6	1544.2	464.1	40.1	46.4	40.1
87.5°	459.9	175.1	73.8	109.7	135.0	120.3	107.6	6.3	2.1	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)