

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: P647945

Luminaire Tested: **GALN-SA5A-835-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647945
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-SA5A-835-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 615mA 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: 12878 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

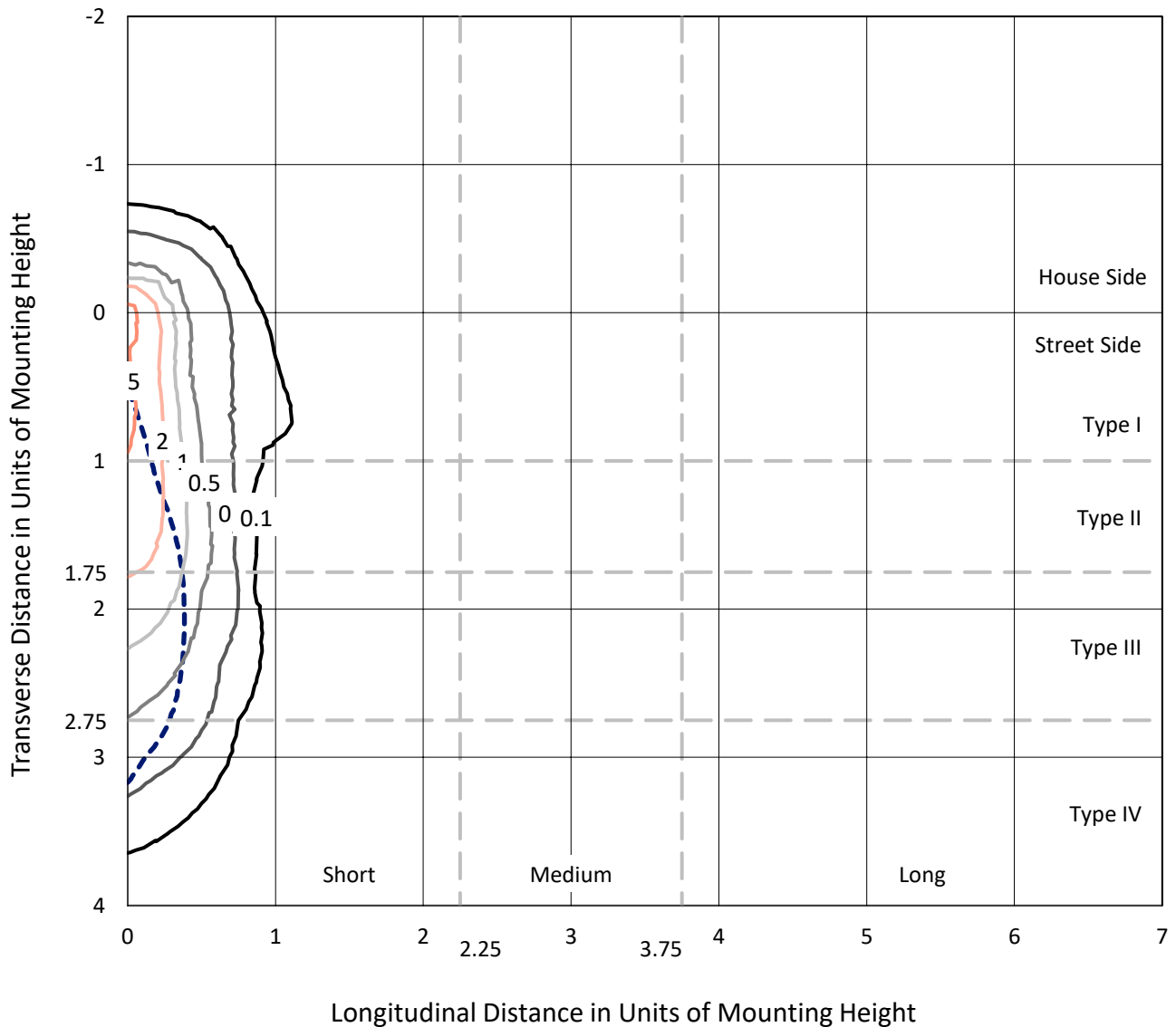
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

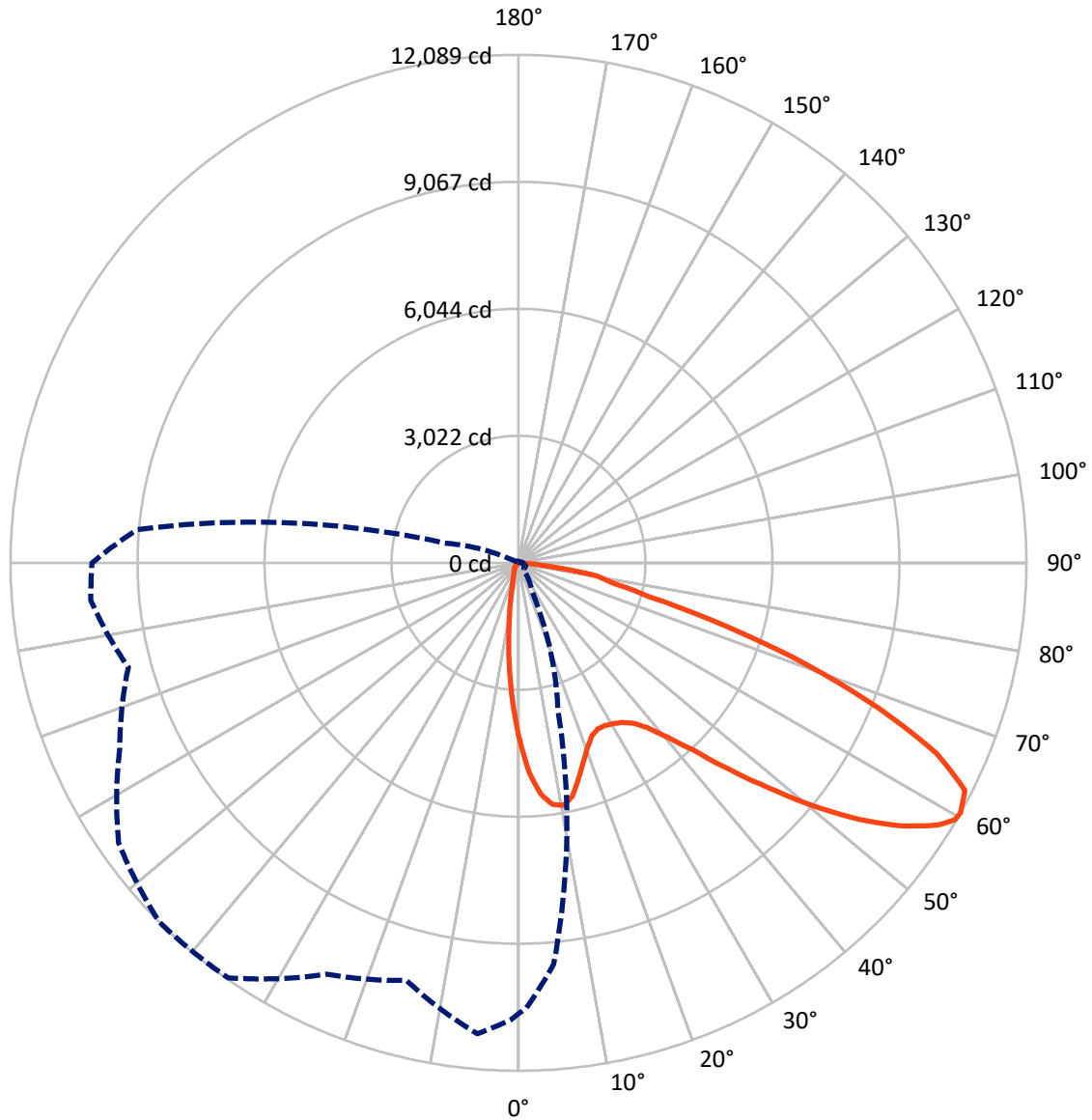
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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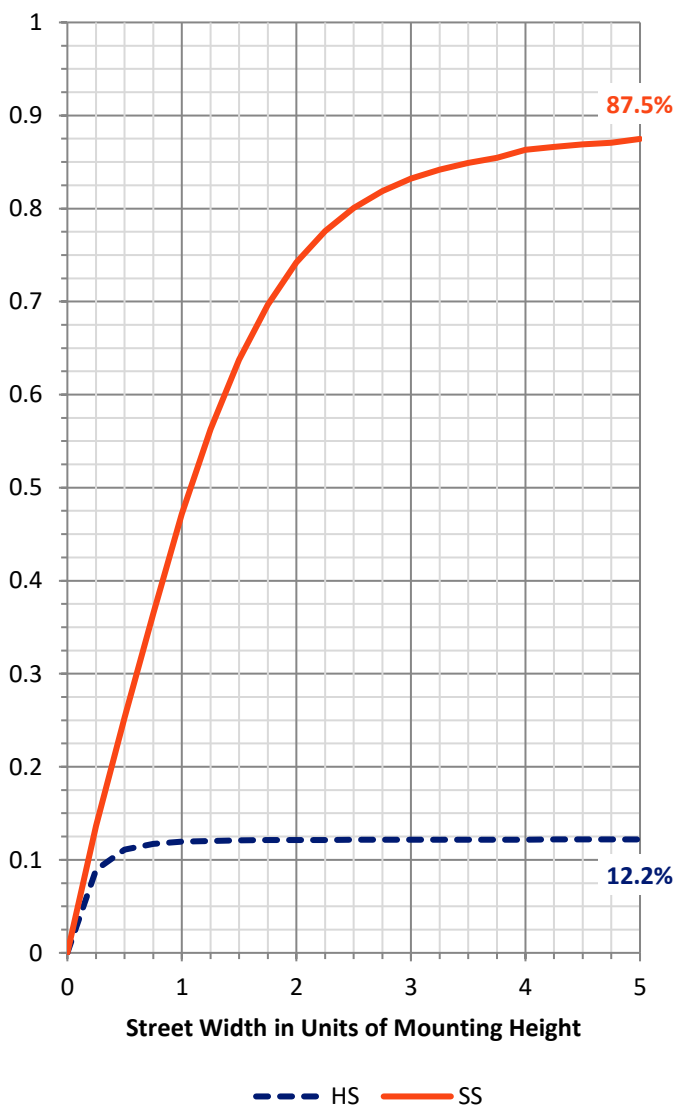
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1588.4	0.0	1588.4
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	11289.6	0.0	11289.6
	% Fixture	87.7	0.0	87.7
Total	Lumens	12878.0	0.0	12878.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.6	2.5
10°-20°	628.7	4.9
20°-30°	921.9	7.2
30°-40°	1371.0	10.6
40°-50°	1995.2	15.5
50°-60°	2877.3	22.3
60°-70°	3164.7	24.6
70°-80°	1417.5	11.0
80°-90°	185.2	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°	12878.0	100.0
0°-180°	12878.0	100.0

Coefficient of Utilization



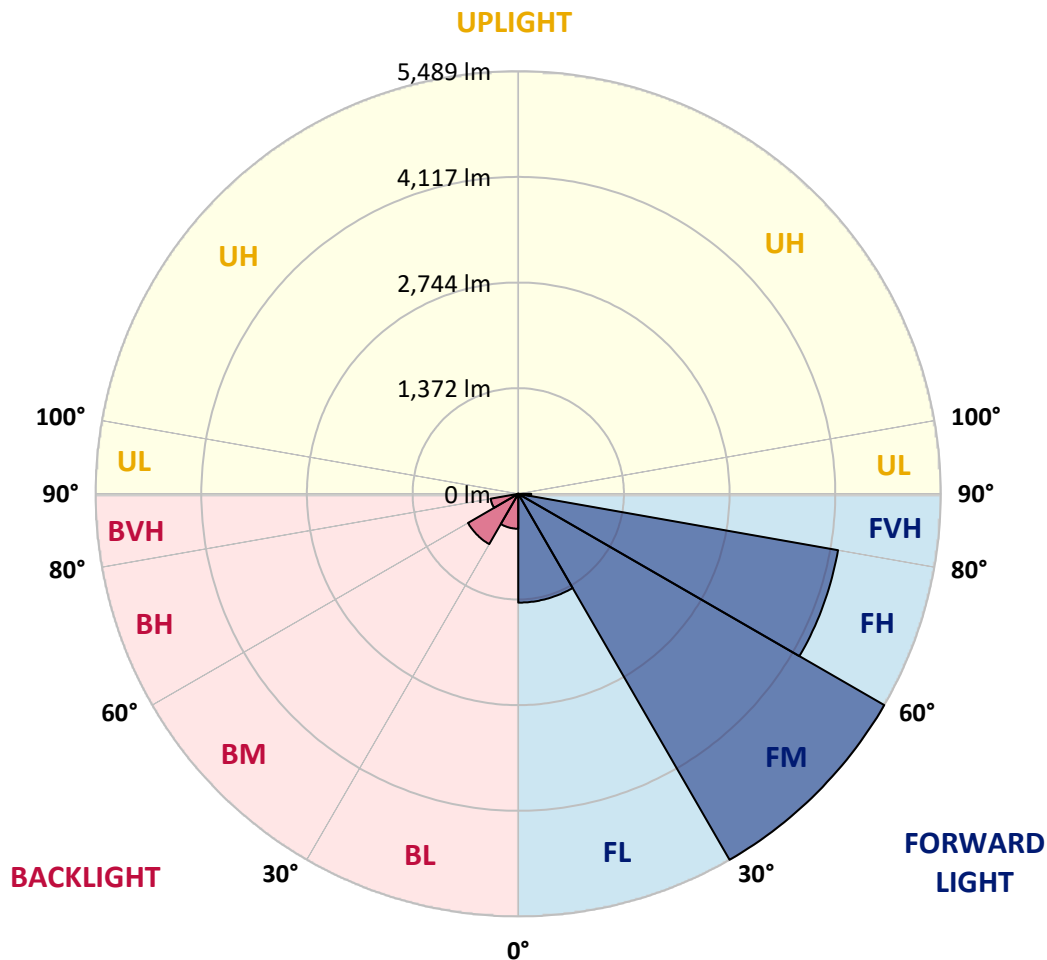
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1413.3	11.0			
FM (30°-60°)	5489.0	42.6			
FH (60°-80°)	4217.9	32.8			G2/5000
FVH (80°-90°)	169.4	1.3			G2/225
BL (0°-30°)	453.9	3.5	B1/500		
BM (30°-60°)	754.4	5.9	B1/1000		
BH (60°-80°)	364.3	2.8	B1/500		G1/500
BVH (80°-90°)	15.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4256.4	4256.4	4256.4	4256.4	4256.4	4256.4	4256.4	4256.4	4256.4	4256.4	4256.4
2.5°	4679.3	4658.7	4611.7	4468.8	4344.5	4182.0	4017.5	3888.3	3809.0	3663.1	3596.6
5°	4533.4	4543.2	4407.1	4113.4	3786.5	3563.3	3319.5	3125.7	2912.3	2777.2	2635.3
7.5°	4152.6	4133.0	3985.2	3576.0	3178.6	2855.5	2547.2	2296.5	2138.9	2012.7	1906.9
10°	3826.6	3812.0	3623.0	3096.4	2669.6	2427.8	2219.3	1999.9	1830.6	1645.6	1497.7
12.5°	3622.0	3588.7	3371.4	2821.2	2473.7	2248.6	2021.5	1793.4	1559.4	1372.4	1193.3
15°	3553.5	3505.5	3263.7	2726.3	2348.5	2062.6	1777.7	1515.3	1246.1	1039.6	904.5
17.5°	3677.8	3598.5	3341.1	2709.6	2198.7	1819.8	1469.4	1127.8	847.8	690.1	606.9
20°	3962.7	3871.6	3536.9	2693.1	2032.3	1547.7	1116.9	796.9	586.4	500.3	454.2
22.5°	4385.6	4260.3	3826.6	2719.4	1878.6	1282.4	806.6	562.9	466.0	412.1	379.8
25°	4893.7	4788.9	4193.7	2813.4	1757.1	1073.9	623.6	460.1	392.5	359.2	334.8
27.5°	5450.6	5283.3	4668.5	2926.0	1646.6	912.4	547.2	411.2	349.5	319.2	306.4
30°	5847.1	5716.9	5065.9	3004.3	1508.5	791.0	500.3	405.3	350.5	314.2	290.7
32.5°	6238.7	6072.2	5398.8	3040.5	1407.7	706.8	432.7	353.4	307.4	288.8	265.3
35°	6657.7	6483.4	5730.6	3021.0	1332.4	651.0	392.5	315.2	263.3	232.0	208.5
37.5°	7081.5	6897.5	6060.5	2950.5	1285.3	628.4	361.2	299.6	248.7	216.3	190.9
40°	7584.7	7339.0	6369.9	2892.7	1236.4	616.7	340.7	289.8	237.9	203.6	178.1
42.5°	7995.8	7761.9	6662.5	2862.4	1203.1	589.3	340.7	282.0	231.1	192.9	166.4
45°	8385.5	8142.7	6978.7	2886.8	1189.4	555.1	344.6	280.9	226.1	185.0	158.6
47.5°	8711.4	8501.0	7303.7	2978.8	1171.8	517.9	324.0	294.6	223.2	178.1	150.7
50°	9096.2	8892.5	7733.5	3164.9	1140.4	480.7	298.6	317.2	222.2	172.3	143.9
52.5°	9638.5	9418.2	8326.7	3376.3	1090.5	423.8	275.1	314.2	218.3	162.5	137.0
55°	10301.2	10123.1	9014.0	3629.8	1022.0	360.3	237.9	279.0	206.6	145.9	125.3
57.5°	10726.1	10574.3	9528.9	3739.5	917.3	294.6	209.5	234.0	188.9	130.2	111.6
59°	10776.0	10638.9	9636.5	3703.3	848.7	269.2	195.8	200.7	184.0	121.4	103.7
60°	10733.9	10592.0	9593.5	3632.8	785.1	251.6	184.0	178.1	185.0	116.5	97.9
62.5°	10463.7	10221.0	9175.4	3275.4	686.2	231.1	163.5	145.9	163.5	104.8	87.1
65°	9942.0	9577.8	8348.3	2772.3	647.1	219.2	139.0	122.4	124.3	92.0	75.4
67.5°	9030.6	8571.5	7247.0	2252.5	630.4	220.3	117.4	109.6	95.9	78.3	66.6
70°	7589.6	7131.5	5814.8	1853.1	622.6	220.3	99.8	94.0	80.3	65.6	57.8
72.5°	5378.2	4884.8	3922.5	1455.7	560.9	219.2	85.2	85.2	65.6	54.8	47.0
75°	3038.6	3042.5	2465.9	1029.8	466.0	181.1	68.5	67.6	48.0	42.1	35.2
77.5°	1770.9	1739.5	1662.2	442.5	216.3	82.2	48.0	41.1	33.3	30.4	25.4
80°	910.4	748.9	729.3	160.5	77.4	51.9	33.3	23.5	21.5	19.6	17.6
82.5°	269.2	270.2	240.9	64.6	43.1	34.3	16.7	12.8	11.7	10.8	10.8
85°	18.6	11.7	13.7	19.6	26.5	13.7	1.0	3.0	3.0	3.9	4.9
87.5°	2.0	1.0	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°	4256.4	4256.4	4256.4	4256.4	4256.4	4256.4	4256.4	4256.4	4256.4	4256.4	4256.4
2.5°	3523.2	3566.3	3485.9	3487.9	3421.3	3442.9	3364.6	3390.0	3344.0	3379.3	3483.0
5°	2650.9	2660.7	2596.1	2575.5	2585.3	2625.5	2641.1	2569.6	2600.0	2540.3	2536.4
7.5°	1867.8	1879.5	1842.3	1837.5	1907.9	1891.3	1921.6	1848.2	1778.7	1809.0	1753.2
10°	1450.7	1401.8	1325.5	1303.9	1290.2	1299.0	1299.0	1232.4	1222.7	1196.3	1236.4
12.5°	1145.4	1085.6	1013.2	915.3	890.8	888.9	852.6	793.9	775.3	752.8	786.1
15°	832.1	807.6	746.9	692.1	636.3	625.5	566.8	518.8	455.2	446.4	443.5
17.5°	585.4	549.2	548.2	516.9	484.6	463.1	408.2	353.4	328.9	326.0	326.0
20°	438.6	425.8	405.3	401.4	391.6	367.1	318.1	288.8	277.0	278.0	282.0
22.5°	369.0	360.3	341.6	332.9	328.9	307.4	271.2	251.6	245.7	245.7	246.7
25°	329.9	322.0	301.5	287.8	282.9	267.2	238.9	224.2	219.2	219.2	219.2
27.5°	300.5	290.7	269.2	257.5	248.7	231.1	213.4	198.7	193.8	193.8	194.8
30°	280.0	269.2	249.6	234.0	220.3	204.6	189.9	177.2	171.3	170.3	171.3
32.5°	252.6	242.8	223.2	213.4	197.7	179.2	167.4	155.7	149.8	150.7	149.8
35°	196.8	193.8	180.1	183.1	174.2	158.6	147.8	135.1	128.3	127.2	129.2
37.5°	179.2	167.4	151.7	152.7	149.8	143.9	126.3	112.6	107.7	107.7	108.7
40°	165.4	153.7	136.1	127.2	128.3	128.3	109.6	95.0	90.0	89.1	91.1
42.5°	153.7	142.0	122.4	107.7	103.7	108.7	93.0	78.3	73.4	71.5	73.4
45°	145.9	133.1	110.6	94.0	82.2	88.1	76.3	64.6	58.7	58.7	57.8
47.5°	138.0	126.3	101.8	81.3	68.5	65.6	62.6	51.9	46.0	45.0	46.0
50°	131.2	119.4	92.0	70.5	57.8	50.9	50.9	41.1	37.2	35.2	36.3
52.5°	124.3	111.6	83.2	62.6	50.0	41.1	36.3	33.3	30.4	29.4	30.4
55°	114.6	101.8	74.4	53.9	43.1	34.3	28.4	27.4	25.4	23.5	25.4
57.5°	102.8	91.1	65.6	46.0	34.3	26.5	23.5	22.6	20.6	19.6	19.6
59°	95.9	85.2	60.7	40.2	30.4	23.5	21.5	20.6	18.6	16.7	17.6
60°	92.0	83.2	57.8	37.2	27.4	21.5	19.6	18.6	16.7	15.7	16.7
62.5°	81.3	74.4	50.9	30.4	21.5	15.7	13.7	14.7	13.7	12.8	13.7
65°	71.5	65.6	43.1	23.5	16.7	10.8	9.8	12.8	11.7	10.8	11.7
67.5°	63.7	56.8	36.3	17.6	11.7	5.9	6.9	10.8	10.8	9.8	10.8
70°	54.8	48.9	29.4	12.8	5.9	3.0	4.9	7.8	9.8	8.8	9.8
72.5°	45.0	38.2	22.6	8.8	3.0	0.0	3.0	6.9	9.8	8.8	9.8
75°	35.2	28.4	16.7	4.9	0.0	0.0	1.0	5.9	9.8	8.8	9.8
77.5°	25.4	20.6	9.8	1.0	0.0	0.0	1.0	5.9	9.8	8.8	9.8
80°	16.7	14.7	3.9	0.0	0.0	0.0	1.0	5.9	9.8	9.8	10.8
82.5°	10.8	7.8	0.0	0.0	0.0	0.0	2.0	7.8	10.8	11.7	11.7
85°	4.9	0.0	0.0	0.0	0.0	0.0	3.9	9.8	12.8	12.8	12.8
87.5°	0.0	0.0	0.0	0.0	0.0	2.0	6.9	11.7	14.7	14.7	14.7
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°	4256.4	4256.4	4256.4	4256.4	4256.4	4256.4	4256.4	4256.4	4256.4	4256.4	4256.4
2.5°	3500.6	3562.3	3649.4	3783.5	3892.2	4063.5	4194.7	4373.8	4554.9	4609.8	4694.9
5°	2576.5	2655.9	2853.6	3033.7	3147.3	3509.4	3738.5	4099.7	4423.8	4579.4	4748.7
7.5°	1789.5	1883.4	2034.2	2285.8	2524.6	2819.3	3189.3	3602.4	4077.2	4299.5	4538.3
10°	1255.9	1373.5	1585.9	1792.4	2093.0	2372.9	2738.1	3194.2	3717.9	3980.3	4279.9
12.5°	792.9	897.7	1178.6	1410.7	1785.6	2110.6	2447.3	2860.5	3467.4	3736.6	4050.8
15°	453.3	541.4	672.5	970.1	1386.1	1815.9	2235.9	2715.5	3339.1	3670.9	4010.7
17.5°	337.7	361.2	419.9	588.3	967.2	1469.4	2041.0	2671.5	3426.3	3815.9	4203.5
20°	283.9	299.6	327.0	393.5	616.7	1131.7	1851.2	2679.3	3708.1	4197.7	4565.7
22.5°	254.6	264.3	286.8	329.9	420.9	824.3	1629.0	2725.3	4049.8	4666.5	5091.4
25°	223.2	235.9	255.5	292.7	350.5	571.7	1409.6	2828.1	4528.5	5261.7	5661.1
27.5°	198.7	210.5	230.0	264.3	307.4	436.6	1154.1	2916.2	5033.6	5860.8	6187.8
30°	174.2	186.0	205.5	233.0	272.2	353.4	879.1	2968.1	5524.1	6310.1	6561.7
32.5°	153.7	163.5	182.0	206.6	238.9	299.6	693.1	2914.2	5899.0	6718.4	6886.7
35°	133.1	144.9	160.5	183.1	211.4	255.5	576.6	2728.3	6221.1	7138.3	7199.0
37.5°	111.6	125.3	142.0	162.5	185.0	235.0	463.1	2522.7	6565.6	7662.0	7562.2
40°	94.0	106.7	122.4	144.9	165.4	215.3	356.3	2303.4	6937.6	8153.5	7958.6
42.5°	76.3	90.0	108.7	129.2	163.5	187.9	276.1	2076.3	7271.5	8581.3	8316.9
45°	60.7	72.4	92.0	118.5	162.5	161.5	213.4	1852.1	7523.1	8886.7	8584.2
47.5°	48.0	57.8	77.4	115.5	149.8	137.0	171.3	1713.1	7787.3	9161.7	8788.8
50°	38.2	48.0	66.6	120.4	131.2	117.4	143.9	1735.6	8042.8	9301.7	8873.0
52.5°	32.3	42.1	57.8	95.0	100.9	102.8	126.3	1839.4	8372.8	9451.5	9040.4
55°	28.4	37.2	48.9	66.6	78.3	92.0	115.5	1914.7	8814.2	9772.6	9409.4
57.5°	22.6	32.3	44.1	56.8	64.6	80.3	106.7	1920.6	9213.6	10184.7	9899.9
59°	20.6	29.4	41.1	53.9	57.8	72.4	100.9	1870.7	9228.3	10246.4	10125.1
60°	18.6	28.4	39.2	50.0	54.8	68.5	95.9	1813.0	9095.2	10148.5	10218.0
62.5°	15.7	24.5	34.3	40.2	47.0	56.8	83.2	1603.5	8450.1	9705.1	10045.7
65°	13.7	21.5	29.4	33.3	39.2	48.9	73.4	1283.3	7737.4	9104.0	9552.4
67.5°	12.8	19.6	25.4	28.4	34.3	45.0	65.6	906.5	6814.3	8341.4	8811.3
70°	11.7	18.6	22.6	26.5	30.4	38.2	55.8	528.6	5249.0	7004.2	7500.5
72.5°	11.7	17.6	19.6	22.6	26.5	34.3	51.9	285.9	3588.7	5343.0	5984.2
75°	11.7	16.7	17.6	19.6	23.5	31.3	46.0	149.8	2320.0	3712.0	4581.3
77.5°	11.7	15.7	17.6	18.6	22.6	27.4	40.2	94.0	1545.7	2600.0	3096.4
80°	12.8	15.7	16.7	18.6	21.5	25.4	33.3	62.6	908.4	1564.4	1884.4
82.5°	13.7	15.7	17.6	19.6	22.6	24.5	29.4	39.2	419.0	1034.7	1170.8
85°	14.7	16.7	18.6	20.6	23.5	24.5	27.4	28.4	68.5	467.0	631.4
87.5°	15.7	17.6	19.6	21.5	25.4	25.4	25.4	25.4	23.5	50.0	127.2
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-SA5A-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4256.4	4256.4	4256.4	4256.4	4256.4	4256.4	4256.4	4256.4	4256.4	4256.4
2.5°	4802.6	4913.2	4990.5	5010.1	4954.4	4928.9	4858.4	4748.7	4682.2	4679.3
5°	5061.1	5320.5	5500.6	5531.0	5423.2	5241.2	5024.8	4745.8	4582.4	4533.4
7.5°	5017.0	5471.2	5761.0	5803.0	5621.9	5274.4	4855.5	4406.2	4228.0	4152.6
10°	4835.9	5389.9	5804.1	5870.6	5628.8	5139.4	4606.8	4105.6	3884.4	3826.6
12.5°	4681.2	5241.2	5609.3	5701.3	5518.2	5029.7	4458.0	3912.7	3675.9	3622.0
15°	4613.7	5065.0	5290.1	5337.1	5306.8	4961.2	4442.4	3883.4	3612.2	3553.5
17.5°	4681.2	4915.2	4943.5	4991.5	5059.1	4954.4	4593.1	4042.9	3750.3	3677.8
20°	4858.4	4785.0	4667.5	4688.1	4842.8	4982.7	4861.3	4396.4	4040.0	3962.7
22.5°	5159.9	4752.7	4486.4	4468.8	4664.6	5077.7	5254.9	4875.0	4461.9	4385.6
25°	5529.9	4833.9	4419.9	4381.7	4595.0	5216.7	5682.6	5461.4	5010.1	4893.7
27.5°	5933.3	5002.3	4419.9	4382.6	4589.2	5340.1	6048.8	5980.2	5577.9	5450.6
30°	6154.5	5141.3	4483.5	4441.4	4661.7	5411.5	6244.6	6441.3	6004.7	5847.1
32.5°	6352.2	5334.2	4607.8	4528.5	4813.3	5517.3	6419.8	6832.9	6344.4	6238.7
35°	6534.3	5540.7	4779.1	4687.1	5013.1	5662.1	6613.6	7244.0	6817.3	6657.7
37.5°	6735.0	5780.6	5046.4	4968.1	5346.9	5944.1	6843.7	7784.4	7282.2	7081.5
40°	6953.3	6058.5	5485.9	5452.6	5877.4	6263.1	7134.4	8361.0	7812.8	7584.7
42.5°	7175.5	6378.7	6024.3	6079.1	6478.5	6710.5	7432.9	8804.4	8247.4	7995.8
45°	7377.2	6787.8	6724.2	6995.4	7179.4	7147.1	7654.2	9116.7	8626.3	8385.5
47.5°	7631.7	7384.0	7571.0	7989.0	7993.9	7621.9	7821.6	9372.2	8952.3	8711.4
50°	7916.6	8087.8	8664.4	9090.3	8975.8	8088.9	8017.4	9674.7	9289.0	9096.2
52.5°	8246.5	8875.9	9674.7	10147.5	9880.3	8597.9	8343.3	10001.7	9823.5	9638.5
55°	8630.2	9413.3	10682.0	11058.9	10789.7	9230.3	8838.7	10445.1	10427.5	10301.2
57.5°	9063.9	9981.1	11265.5	11775.5	11535.6	9972.3	9530.8	10863.1	10796.6	10726.1
59°	9406.5	10272.8	11522.9	12051.5	11906.7	10492.1	9995.8	11123.5	10881.7	10776.0
60°	9614.0	10470.6	11617.8	12088.7	12055.5	10801.5	10290.4	11250.8	10880.7	10733.9
62.5°	10229.7	10816.1	11581.7	11923.3	12053.5	11394.7	11154.9	11390.8	10679.1	10463.7
65°	10449.1	10701.6	10981.6	10939.4	11051.1	11364.3	11706.9	11237.1	10248.4	9942.0
67.5°	10022.2	9445.6	9544.5	9263.6	9208.7	10103.4	11482.8	10485.2	9405.5	9030.6
70°	8448.1	7236.2	7186.3	7315.5	6961.1	8179.9	10311.0	9037.5	8014.5	7589.6
72.5°	6649.9	5113.9	4693.0	5168.7	5157.9	6240.7	8565.6	6412.9	5414.4	5378.2
75°	5229.4	3560.4	3124.7	3202.1	3350.8	4517.8	6822.1	4072.3	3334.2	3038.6
77.5°	3510.4	2522.7	2353.3	2258.4	2418.9	2900.5	4316.1	2208.5	1869.7	1770.9
80°	2023.4	1832.5	2081.2	1889.3	1975.4	1827.7	2146.8	1013.2	840.9	910.4
82.5°	1316.6	1043.5	1112.1	826.2	1129.7	1139.5	689.2	299.6	253.5	269.2
85°	823.2	489.5	275.1	195.8	389.6	716.6	215.3	18.6	21.5	18.6
87.5°	213.4	81.3	34.3	50.9	62.6	55.8	50.0	3.0	1.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)