

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: P648385

Luminaire Tested: **GALN-SA4B-835-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648385
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-SA4B-835-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 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: 12658 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

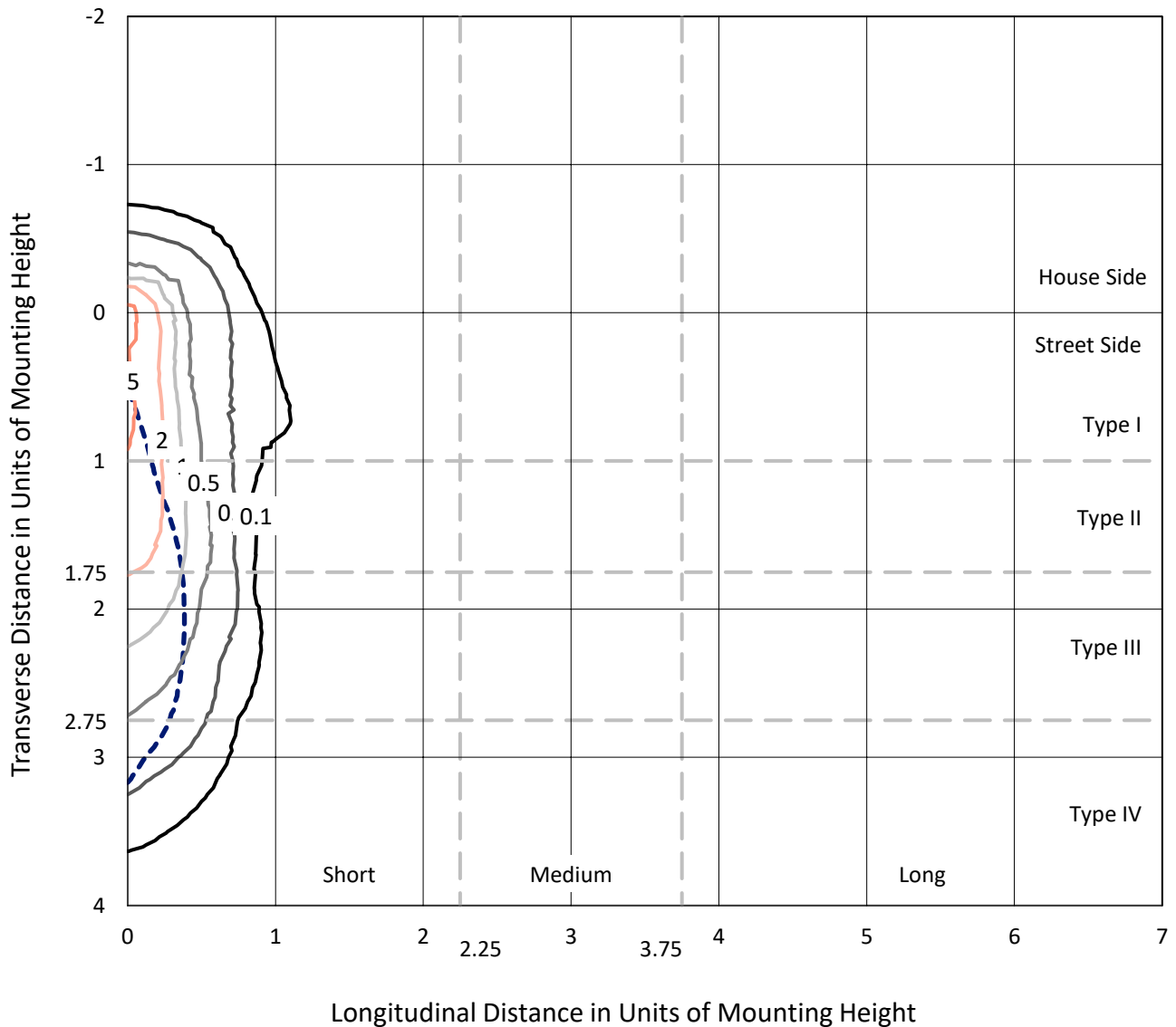
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

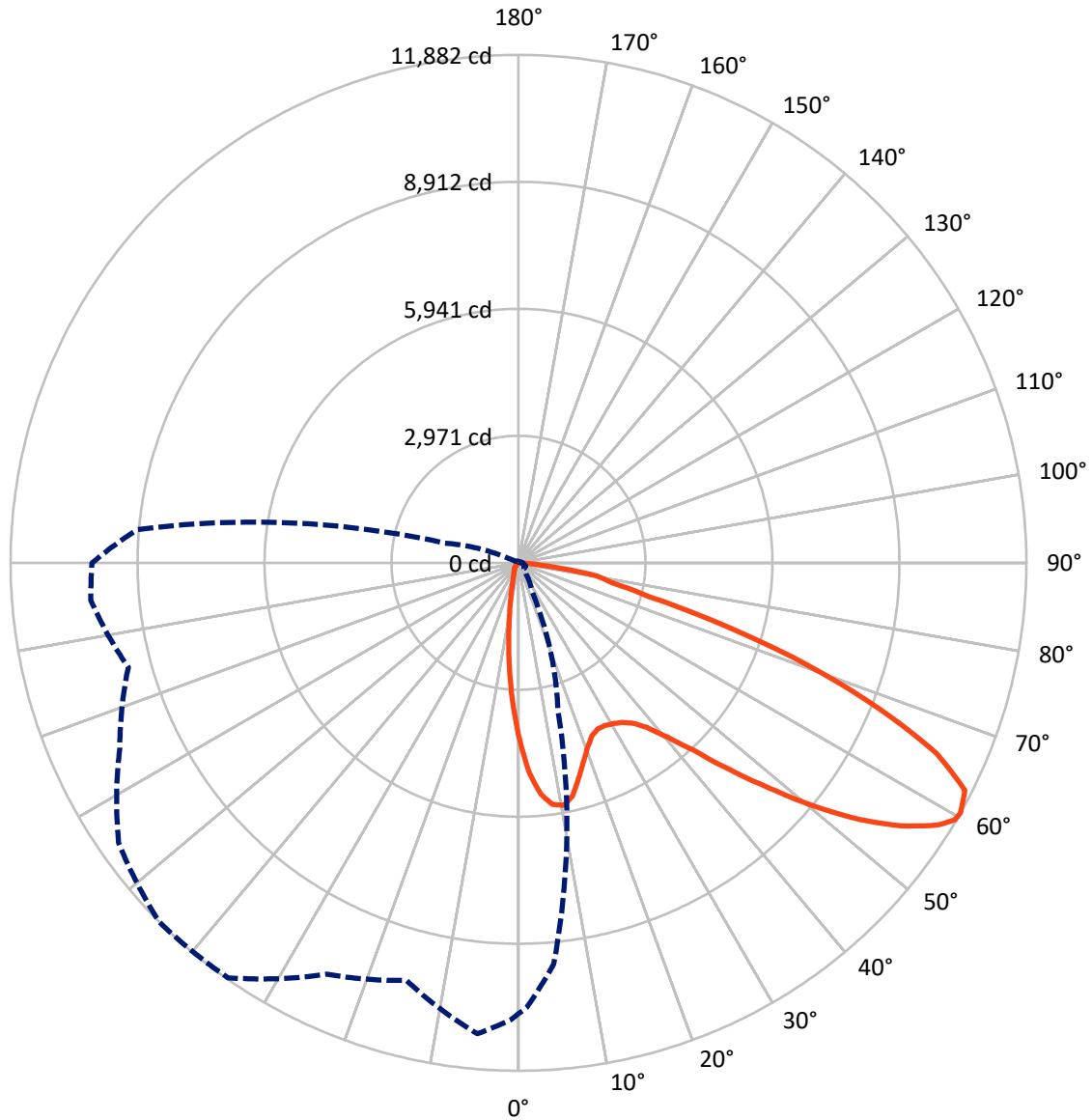
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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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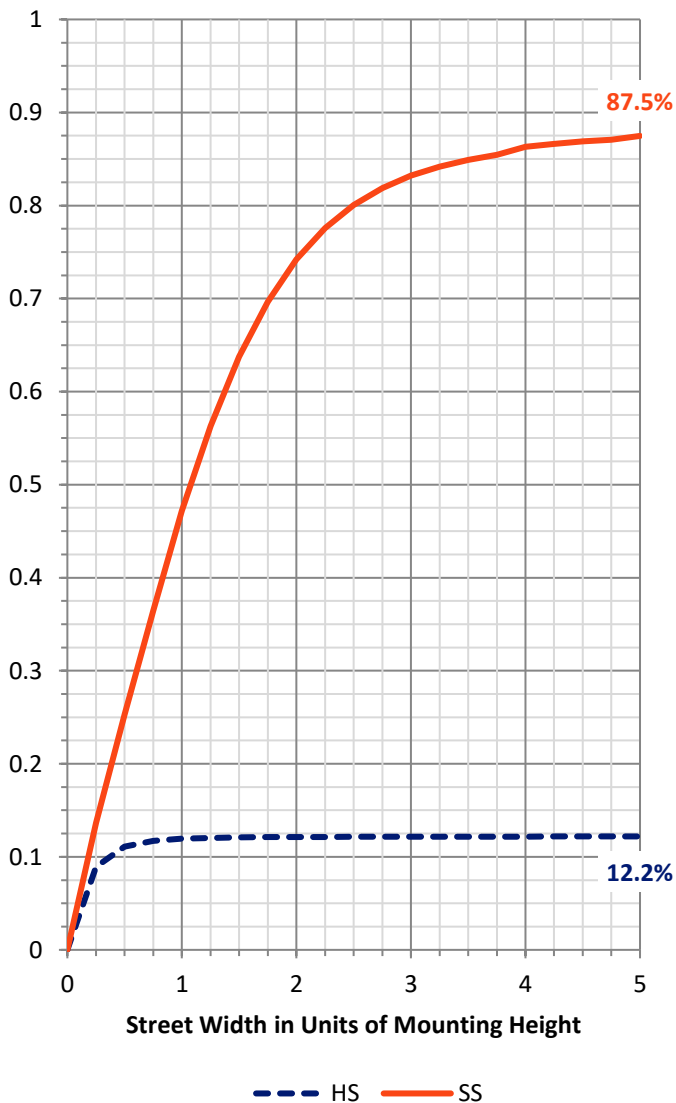
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1561.2	0.0	1561.2
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	11096.7	0.0	11096.7
	% Fixture	87.7	0.0	87.7
Total	Lumens	12658.0	0.0	12658.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.2	2.5
10°-20°	618.0	4.9
20°-30°	906.1	7.2
30°-40°	1347.6	10.6
40°-50°	1961.1	15.5
50°-60°	2828.1	22.3
60°-70°	3110.6	24.6
70°-80°	1393.3	11.0
80°-90°	182.1	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°	12658.0	100.0
0°-180°	12658.0	100.0

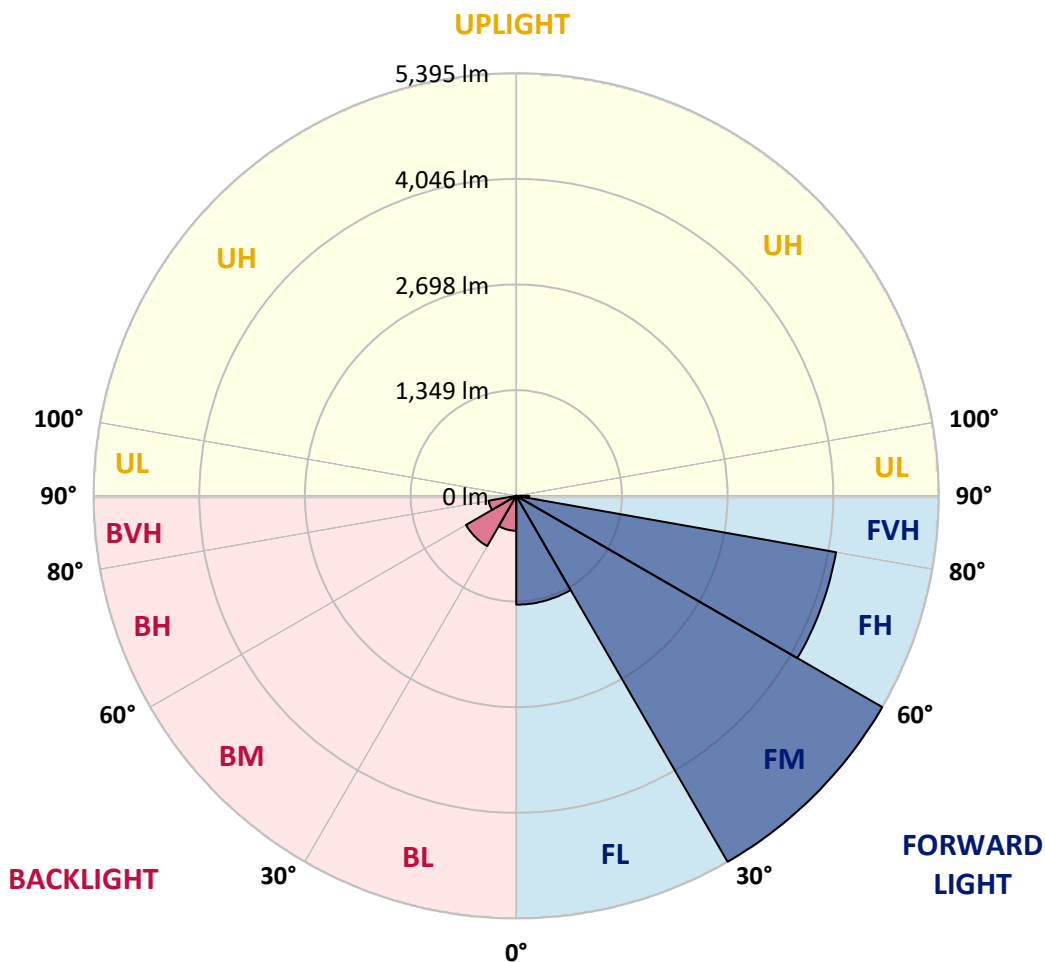


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1389.2	11.0			
FM (30°-60°)	5395.2	42.6			
FH (60°-80°)	4145.9	32.8			G2/5000
FVH (80°-90°)	166.5	1.3			G2/225
BL (0°-30°)	446.1	3.5	B1/500		
BM (30°-60°)	741.5	5.9	B1/1000		
BH (60°-80°)	358.0	2.8	B1/500		G1/500
BVH (80°-90°)	15.6	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°	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6
2.5°	4599.3	4579.1	4532.9	4392.5	4270.2	4110.5	3948.9	3821.8	3743.9	3600.5	3535.1
5°	4456.0	4465.6	4331.8	4043.2	3721.8	3502.4	3262.8	3072.3	2862.6	2729.8	2590.2
7.5°	4081.6	4062.4	3917.1	3514.9	3124.2	2806.7	2503.6	2257.3	2102.4	1978.2	1874.3
10°	3761.2	3746.8	3561.1	3043.4	2623.9	2386.3	2181.3	1965.8	1799.3	1617.4	1472.2
12.5°	3560.1	3527.4	3313.8	2773.1	2431.4	2210.2	1986.9	1762.8	1532.8	1349.0	1172.9
15°	3492.8	3445.7	3208.0	2679.7	2308.3	2027.3	1747.3	1489.5	1224.8	1021.9	889.1
17.5°	3615.0	3537.0	3284.0	2663.4	2161.1	1788.8	1444.2	1108.4	833.3	678.3	596.6
20°	3895.0	3805.5	3476.4	2647.0	1997.5	1521.2	1097.8	783.2	576.4	491.6	446.5
22.5°	4310.6	4187.5	3761.2	2673.0	1846.5	1260.5	792.9	553.3	458.0	405.1	373.3
25°	4810.0	4707.1	4122.0	2765.4	1727.1	1055.6	612.9	452.3	385.9	353.1	329.1
27.5°	5357.5	5193.0	4588.7	2876.0	1618.4	896.8	537.8	404.1	343.5	313.7	301.1
30°	5747.2	5619.3	4979.4	2953.0	1482.8	777.4	491.6	398.3	344.4	308.9	285.8
32.5°	6132.1	5968.5	5306.5	2988.6	1383.6	694.7	425.3	347.3	302.2	283.8	260.7
35°	6543.9	6372.7	5632.7	2969.4	1309.6	639.9	385.9	309.8	258.9	228.0	204.9
37.5°	6960.6	6779.7	5957.0	2900.1	1263.4	617.7	355.1	294.4	244.4	212.7	187.6
40°	7455.1	7213.6	6261.0	2843.3	1215.3	606.2	334.8	284.8	233.8	200.1	175.2
42.5°	7859.2	7629.3	6548.7	2813.5	1182.6	579.3	334.8	277.1	227.1	189.6	163.6
45°	8242.2	8003.6	6859.5	2837.5	1169.1	545.6	338.7	276.2	222.3	181.9	155.9
47.5°	8562.6	8355.7	7178.9	2928.0	1151.7	509.0	318.5	289.6	219.4	175.2	148.1
50°	8940.8	8740.6	7601.4	3110.8	1120.9	472.5	293.5	311.8	218.5	169.4	141.4
52.5°	9473.8	9257.3	8184.5	3318.6	1071.9	416.6	270.4	308.9	214.5	159.7	134.7
55°	10125.2	9950.1	8860.0	3567.8	1004.5	354.1	233.8	274.2	203.0	143.4	123.2
57.5°	10542.8	10393.7	9366.0	3675.6	901.5	289.6	205.9	230.0	185.7	127.9	109.7
59°	10591.9	10457.2	9471.9	3640.0	834.2	264.6	192.5	197.2	180.9	119.3	102.0
60°	10550.5	10411.0	9429.6	3570.7	771.6	247.3	180.9	175.2	181.9	114.5	96.2
62.5°	10284.9	10046.4	9018.7	3219.5	674.5	227.1	160.7	143.4	160.7	103.0	85.7
65°	9772.1	9414.2	8205.6	2724.9	636.0	215.6	136.6	120.3	122.2	90.4	74.1
67.5°	8876.3	8425.0	7123.2	2214.0	619.7	216.5	115.5	107.7	94.3	77.0	65.5
70°	7460.0	7009.7	5715.4	1821.4	612.0	216.5	98.1	92.4	78.9	64.4	56.8
72.5°	5286.3	4801.4	3855.6	1430.8	551.3	215.6	83.7	83.7	64.4	53.9	46.2
75°	2986.7	2990.5	2423.8	1012.3	458.0	178.0	67.3	66.4	47.1	41.3	34.6
77.5°	1740.6	1709.8	1633.8	434.9	212.7	80.8	47.1	40.4	32.7	29.8	25.1
80°	894.8	736.1	716.8	157.8	76.0	51.0	32.7	23.1	21.1	19.3	17.3
82.5°	264.6	265.6	236.7	63.5	42.4	33.7	16.4	12.5	11.5	10.6	10.6
85°	18.2	11.5	13.5	19.3	26.0	13.5	0.9	2.9	2.9	3.8	4.8
87.5°	2.0	0.9	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°	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6
2.5°	3463.0	3505.3	3426.4	3428.3	3362.9	3384.0	3307.1	3332.1	3286.9	3321.5	3423.5
5°	2605.7	2615.2	2551.7	2531.5	2541.1	2580.6	2596.0	2525.8	2555.6	2496.9	2493.1
7.5°	1835.9	1847.4	1810.8	1806.1	1875.4	1859.0	1888.8	1816.6	1748.3	1778.1	1723.3
10°	1426.0	1377.8	1302.8	1281.6	1268.1	1276.8	1276.8	1211.4	1201.7	1175.8	1215.3
12.5°	1125.8	1067.1	995.9	899.7	875.6	873.7	838.0	780.3	762.1	739.9	772.7
15°	817.8	793.8	734.1	680.3	625.5	614.8	557.1	510.0	447.4	438.8	435.9
17.5°	575.4	539.8	538.9	508.0	476.3	455.2	401.2	347.3	323.3	320.4	320.4
20°	431.0	418.6	398.3	394.5	384.8	360.8	312.7	283.8	272.3	273.3	277.1
22.5°	362.8	354.1	335.8	327.1	323.3	302.2	266.5	247.3	241.5	241.5	242.5
25°	324.2	316.6	296.4	282.9	278.0	262.7	234.7	220.3	215.6	215.6	215.6
27.5°	295.4	285.8	264.6	253.1	244.4	227.1	209.8	195.4	190.5	190.5	191.4
30°	275.2	264.6	245.4	230.0	216.5	201.1	186.7	174.1	168.4	167.4	168.4
32.5°	248.2	238.7	219.4	209.8	194.3	176.1	164.5	153.0	147.2	148.1	147.2
35°	193.4	190.5	177.0	179.9	171.2	155.9	145.3	132.8	126.1	125.1	127.0
37.5°	176.1	164.5	149.2	150.1	147.2	141.4	124.1	110.6	105.9	105.9	106.8
40°	162.6	151.0	133.7	125.1	126.1	126.1	107.7	93.3	88.6	87.5	89.5
42.5°	151.0	139.5	120.3	105.9	102.0	106.8	91.4	77.0	72.2	70.2	72.2
45°	143.4	130.8	108.8	92.4	80.8	86.6	75.1	63.5	57.7	57.7	56.8
47.5°	135.7	124.1	100.1	79.9	67.3	64.4	61.5	51.0	45.3	44.2	45.3
50°	129.0	117.4	90.4	69.3	56.8	50.0	50.0	40.4	36.6	34.6	35.6
52.5°	122.2	109.7	81.8	61.5	49.1	40.4	35.6	32.7	29.8	28.9	29.8
55°	112.6	100.1	73.1	52.9	42.4	33.7	27.9	26.9	25.1	23.1	25.1
57.5°	101.0	89.5	64.4	45.3	33.7	26.0	23.1	22.2	20.2	19.3	19.3
59°	94.3	83.7	59.7	39.5	29.8	23.1	21.1	20.2	18.2	16.4	17.3
60°	90.4	81.8	56.8	36.6	26.9	21.1	19.3	18.2	16.4	15.4	16.4
62.5°	79.9	73.1	50.0	29.8	21.1	15.4	13.5	14.4	13.5	12.5	13.5
65°	70.2	64.4	42.4	23.1	16.4	10.6	9.6	12.5	11.5	10.6	11.5
67.5°	62.6	55.8	35.6	17.3	11.5	5.8	6.7	10.6	10.6	9.6	10.6
70°	53.9	48.1	28.9	12.5	5.8	2.9	4.8	7.7	9.6	8.7	9.6
72.5°	44.2	37.5	22.2	8.7	2.9	0.0	2.9	6.7	9.6	8.7	9.6
75°	34.6	27.9	16.4	4.8	0.0	0.0	0.9	5.8	9.6	8.7	9.6
77.5°	25.1	20.2	9.6	0.9	0.0	0.0	0.9	5.8	9.6	8.7	9.6
80°	16.4	14.4	3.8	0.0	0.0	0.0	0.9	5.8	9.6	9.6	10.6
82.5°	10.6	7.7	0.0	0.0	0.0	0.0	2.0	7.7	10.6	11.5	11.5
85°	4.8	0.0	0.0	0.0	0.0	0.0	3.8	9.6	12.5	12.5	12.5
87.5°	0.0	0.0	0.0	0.0	0.0	2.0	6.7	11.5	14.4	14.4	14.4
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°	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6
2.5°	3440.8	3501.4	3587.1	3718.9	3825.7	3994.1	4123.0	4299.1	4477.1	4531.0	4614.7
5°	2532.5	2610.4	2804.8	2981.8	3093.5	3449.5	3674.6	4029.7	4348.2	4501.2	4667.6
7.5°	1758.9	1851.2	1999.5	2246.7	2481.5	2771.1	3134.8	3540.9	4007.6	4226.0	4460.8
10°	1234.5	1350.0	1558.8	1761.8	2057.2	2332.4	2691.2	3139.7	3654.4	3912.3	4206.7
12.5°	779.4	882.4	1158.5	1386.5	1755.0	2074.5	2405.5	2811.5	3408.1	3672.7	3981.6
15°	445.5	532.1	661.0	953.5	1362.5	1784.8	2197.6	2669.2	3282.0	3608.2	3942.1
17.5°	332.0	355.1	412.8	578.2	950.6	1444.2	2006.2	2625.9	3367.7	3750.6	4131.7
20°	279.1	294.4	321.3	386.8	606.2	1112.3	1819.5	2633.5	3644.8	4125.9	4487.7
22.5°	250.2	259.8	282.0	324.2	413.7	810.2	1601.1	2678.8	3980.6	4586.8	5004.4
25°	219.4	231.9	251.1	287.7	344.4	562.0	1385.6	2779.8	4451.1	5171.8	5564.4
27.5°	195.4	206.9	226.1	259.8	302.2	429.2	1134.4	2866.4	4947.6	5760.7	6082.0
30°	171.2	182.8	202.1	229.0	267.5	347.3	864.0	2917.4	5429.7	6202.3	6449.6
32.5°	151.0	160.7	179.0	203.0	234.7	294.4	681.2	2864.4	5798.2	6603.6	6769.0
35°	130.8	142.4	157.8	179.9	207.8	251.1	566.7	2681.6	6114.8	7016.4	7076.0
37.5°	109.7	123.2	139.5	159.7	181.9	230.9	455.2	2479.6	6453.5	7531.1	7433.0
40°	92.4	104.8	120.3	142.4	162.6	211.6	350.2	2264.0	6819.1	8014.2	7822.7
42.5°	75.1	88.6	106.8	127.0	160.7	184.7	271.3	2040.8	7147.2	8434.6	8174.8
45°	59.7	71.2	90.4	116.4	159.7	158.8	209.8	1820.5	7394.5	8734.8	8437.5
47.5°	47.1	56.8	76.0	113.5	147.2	134.7	168.4	1683.8	7654.3	9005.2	8638.6
50°	37.5	47.1	65.5	118.4	129.0	115.5	141.4	1706.0	7905.4	9142.9	8721.4
52.5°	31.8	41.3	56.8	93.3	99.1	101.0	124.1	1807.9	8229.7	9290.1	8885.9
55°	27.9	36.6	48.1	65.5	77.0	90.4	113.5	1882.1	8663.7	9605.6	9248.6
57.5°	22.2	31.8	43.3	55.8	63.5	78.9	104.8	1887.8	9056.3	10010.7	9730.7
59°	20.2	28.9	40.4	52.9	56.8	71.2	99.1	1838.8	9070.7	10071.3	9952.0
60°	18.2	27.9	38.5	49.1	53.9	67.3	94.3	1782.0	8939.8	9975.1	10043.5
62.5°	15.4	24.0	33.7	39.5	46.2	55.8	81.8	1576.1	8305.7	9539.2	9874.1
65°	13.5	21.1	28.9	32.7	38.5	48.1	72.2	1261.4	7605.2	8948.4	9389.1
67.5°	12.5	19.3	25.1	27.9	33.7	44.2	64.4	891.0	6697.9	8198.9	8660.8
70°	11.5	18.2	22.2	26.0	29.8	37.5	54.8	519.6	5159.3	6884.5	7372.3
72.5°	11.5	17.3	19.3	22.2	26.0	33.7	51.0	280.9	3527.4	5251.7	5881.9
75°	11.5	16.4	17.3	19.3	23.1	30.8	45.3	147.2	2280.4	3648.6	4503.1
77.5°	11.5	15.4	17.3	18.2	22.2	26.9	39.5	92.4	1519.3	2555.6	3043.4
80°	12.5	15.4	16.4	18.2	21.1	25.1	32.7	61.5	892.9	1537.6	1852.3
82.5°	13.5	15.4	17.3	19.3	22.2	24.0	28.9	38.5	411.9	1017.0	1150.8
85°	14.4	16.4	18.2	20.2	23.1	24.0	26.9	27.9	67.3	459.0	620.6
87.5°	15.4	17.3	19.3	21.1	25.1	25.1	25.1	25.1	23.1	49.1	125.1
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-SA4B-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6	4183.6
2.5°	4720.6	4829.3	4905.3	4924.5	4869.7	4844.7	4775.4	4667.6	4602.2	4599.3
5°	4974.6	5229.6	5406.6	5436.4	5330.6	5151.6	4939.0	4664.7	4504.1	4456.0
7.5°	4931.3	5377.7	5662.6	5703.9	5525.9	5184.3	4772.5	4330.9	4155.8	4081.6
10°	4753.3	5297.9	5704.9	5770.3	5532.7	5051.5	4528.1	4035.4	3818.0	3761.2
12.5°	4601.2	5151.6	5513.4	5603.9	5423.9	4943.8	4381.8	3845.9	3613.1	3560.1
15°	4534.8	4978.4	5199.7	5245.9	5216.1	4876.4	4366.5	3817.0	3550.5	3492.8
17.5°	4601.2	4831.2	4859.1	4906.3	4972.7	4869.7	4514.6	3973.9	3686.2	3615.0
20°	4775.4	4703.2	4587.8	4608.0	4760.0	4897.6	4778.3	4321.2	3971.0	3895.0
22.5°	5071.7	4671.5	4409.8	4392.5	4584.9	4990.9	5165.1	4791.7	4385.7	4310.6
25°	5435.4	4751.3	4344.3	4306.8	4516.6	5127.6	5585.5	5368.1	4924.5	4810.0
27.5°	5831.9	4916.8	4344.3	4307.8	4510.8	5248.8	5945.4	5878.1	5482.6	5357.5
30°	6049.4	5053.5	4406.9	4365.5	4582.0	5319.1	6137.9	6331.3	5902.1	5747.2
32.5°	6243.7	5243.0	4529.1	4451.1	4731.1	5423.0	6310.1	6716.2	6236.0	6132.1
35°	6422.7	5446.1	4697.5	4607.0	4927.4	5565.3	6500.6	7120.3	6700.8	6543.9
37.5°	6620.0	5681.8	4960.1	4883.2	5255.5	5842.5	6726.8	7651.4	7157.8	6960.6
40°	6834.5	5955.0	5392.1	5359.5	5777.1	6156.2	7012.5	8218.1	7679.4	7455.1
42.5°	7053.0	6269.7	5921.4	5975.2	6367.8	6595.9	7306.0	8654.0	8106.6	7859.2
45°	7251.1	6671.9	6609.4	6875.9	7056.8	7025.0	7523.5	8961.0	8478.9	8242.2
47.5°	7501.3	7257.9	7441.6	7852.5	7857.3	7491.7	7688.0	9212.1	8799.3	8562.6
50°	7781.3	7949.7	8516.5	8935.0	8822.4	7950.7	7880.4	9509.4	9130.3	8940.8
52.5°	8105.5	8724.3	9509.4	9974.2	9711.5	8451.0	8200.8	9830.8	9655.6	9473.8
55°	8482.8	9252.5	10499.5	10870.0	10605.3	9072.5	8687.7	10266.7	10249.3	10125.2
57.5°	8909.0	9810.6	11073.0	11574.3	11338.5	9801.9	9368.0	10677.5	10612.1	10542.8
59°	9245.7	10097.3	11326.0	11845.6	11703.3	10312.8	9825.0	10933.5	10695.8	10591.9
60°	9449.8	10291.7	11419.4	11882.2	11849.5	10616.9	10114.6	11058.5	10694.8	10550.5
62.5°	10055.0	10631.3	11383.8	11719.6	11847.6	11200.0	10964.3	11196.1	10496.7	10284.9
65°	10270.5	10518.7	10794.0	10752.5	10862.2	11170.2	11507.0	11045.1	10073.3	9772.1
67.5°	9851.0	9284.3	9381.4	9105.3	9051.4	9930.9	11286.6	10306.1	9244.8	8876.3
70°	8303.8	7112.6	7063.5	7190.5	6842.2	8040.2	10134.8	8883.1	7877.5	7460.0
72.5°	6536.2	5026.5	4612.8	5080.4	5069.8	6134.0	8419.2	6303.4	5321.9	5286.3
75°	5140.1	3499.5	3071.3	3147.3	3293.6	4440.5	6705.5	4002.8	3277.2	2986.7
77.5°	3450.4	2479.6	2313.1	2219.8	2377.6	2851.0	4242.4	2170.7	1837.8	1740.6
80°	1988.9	1801.2	2045.7	1857.0	1941.7	1796.4	2110.1	995.9	826.5	894.8
82.5°	1294.1	1025.7	1093.1	812.1	1110.4	1120.0	677.4	294.4	249.2	264.6
85°	809.2	481.1	270.4	192.5	383.0	704.3	211.6	18.2	21.1	18.2
87.5°	209.8	79.9	33.7	50.0	61.5	54.8	49.1	2.9	0.9	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)