

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: P458788

Luminaire Tested: **GALN-SA3B-735-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458788
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-SA3B-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 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: 11364 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

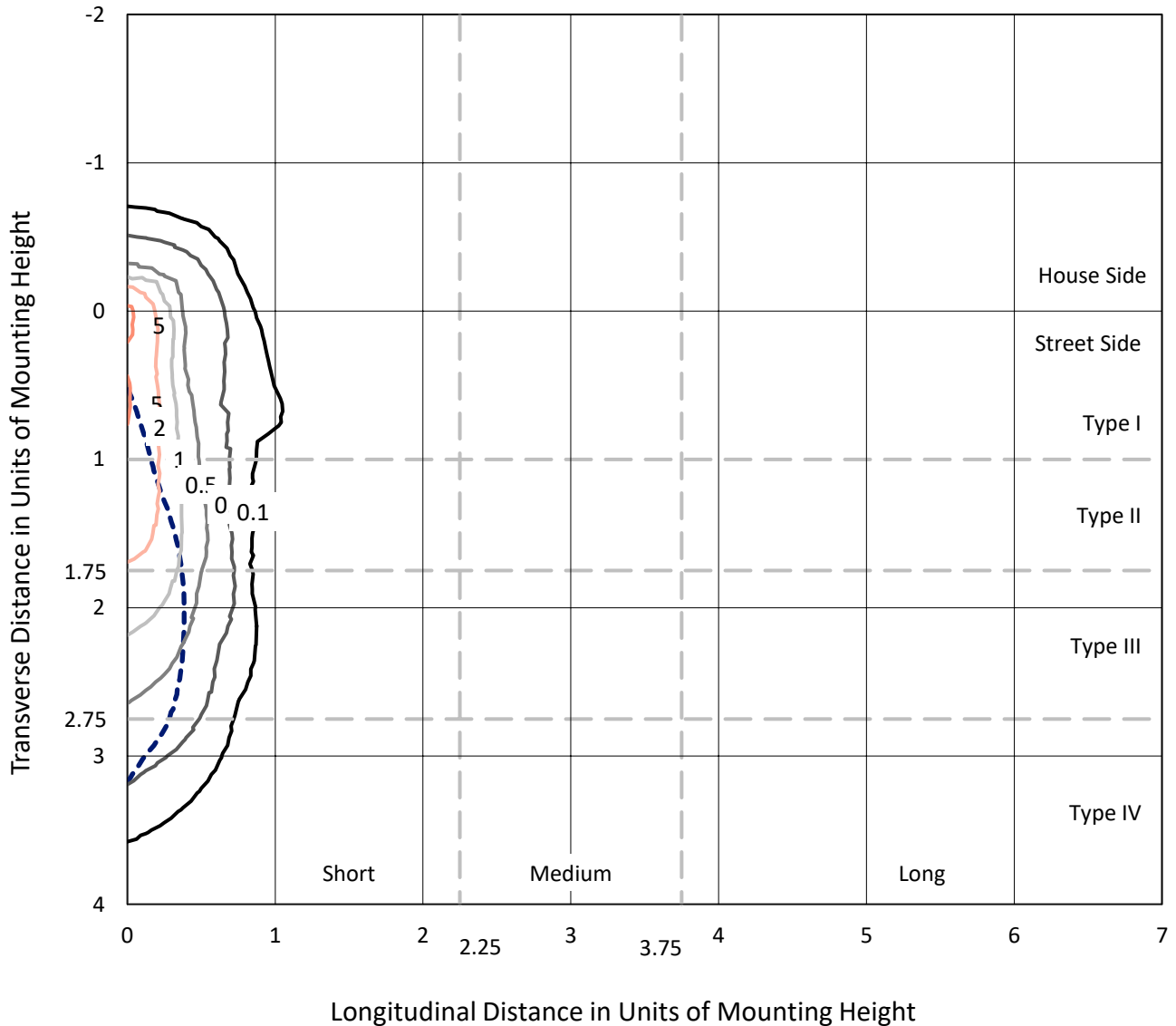
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

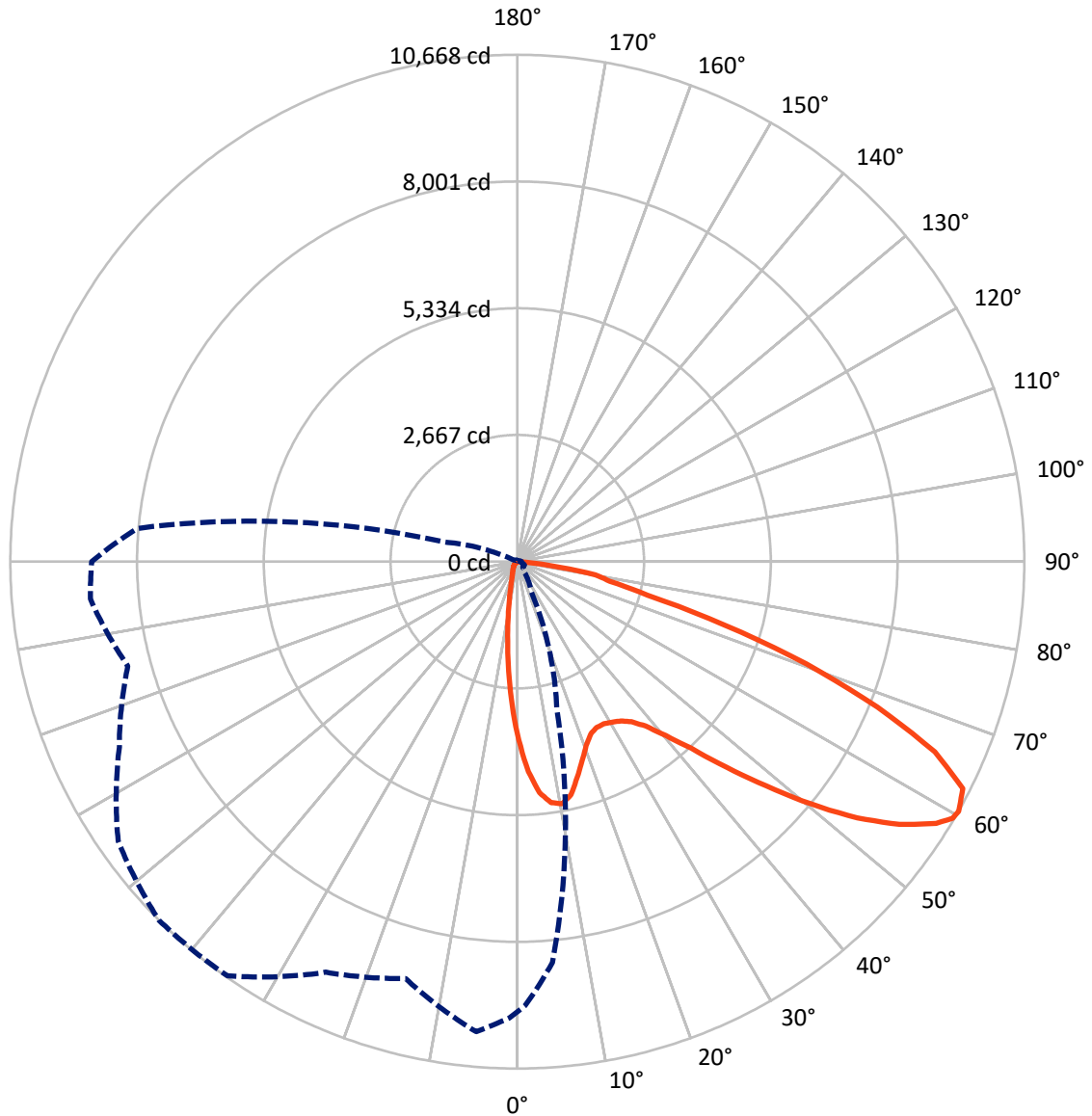
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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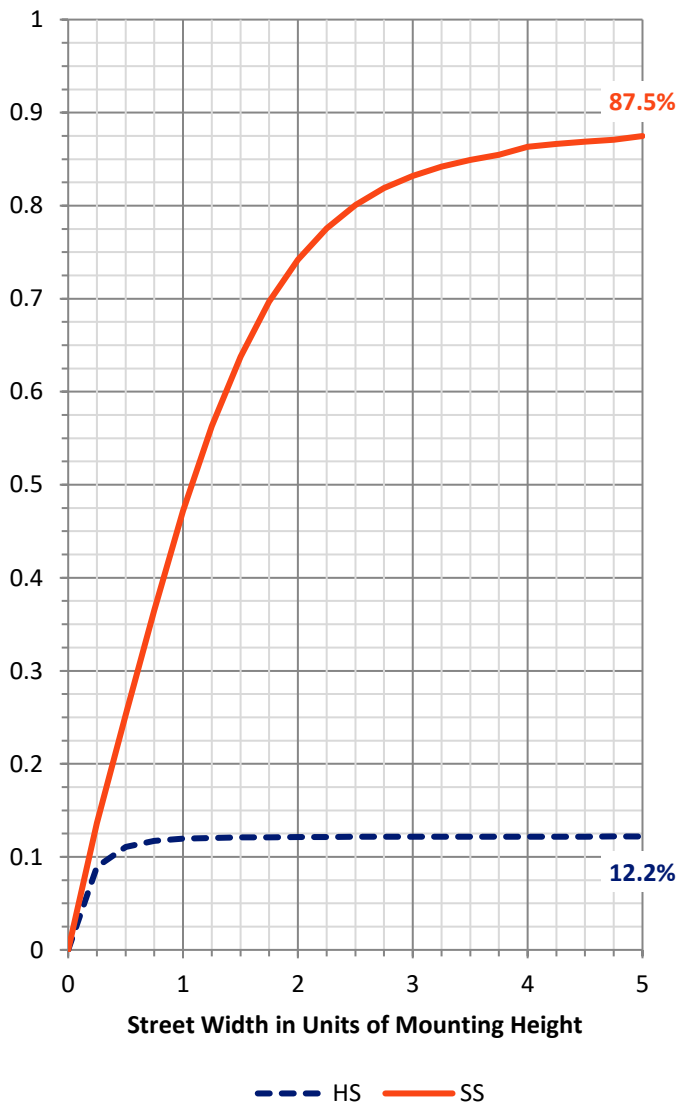
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1401.6	0.0	1401.6
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	9962.4	0.0	9962.4
	% Fixture	87.7	0.0	87.7
Total	Lumens	11364.0	0.0	11364.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.4	2.5
10°-20°	554.8	4.9
20°-30°	813.5	7.2
30°-40°	1209.8	10.6
40°-50°	1760.6	15.5
50°-60°	2539.0	22.3
60°-70°	2792.6	24.6
70°-80°	1250.9	11.0
80°-90°	163.4	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°	11364.0	100.0
0°-180°	11364.0	100.0

Coefficient of Utilization



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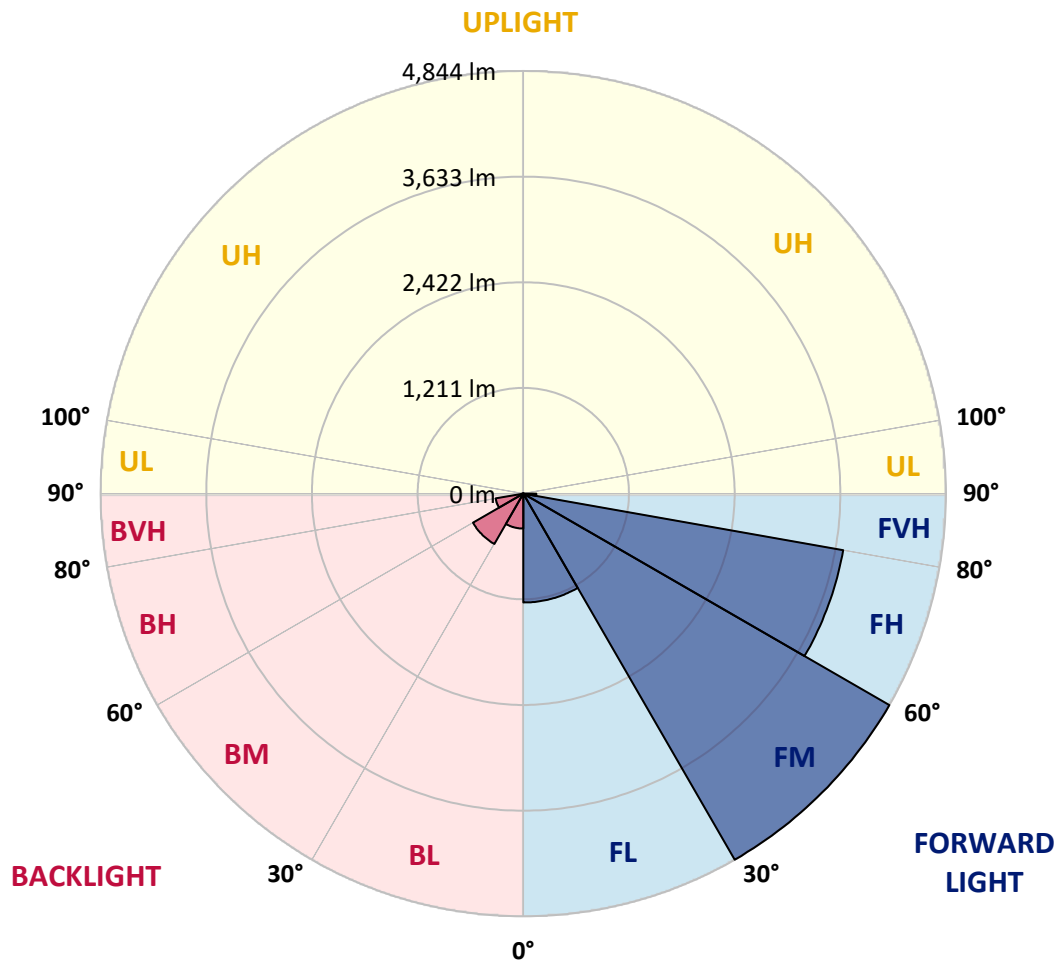
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1247.2	11.0			
FM (30°-60°)	4843.7	42.6			
FH (60°-80°)	3722.0	32.8			G2/5000
FVH (80°-90°)	149.5	1.3			G2/225
BL (0°-30°)	400.5	3.5	B1/500		
BM (30°-60°)	665.7	5.9	B1/1000		
BH (60°-80°)	321.4	2.8	B1/500		G1/500
BVH (80°-90°)	14.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	3756.0	3756.0	3756.0	3756.0	3756.0	3756.0	3756.0	3756.0	3756.0	3756.0	3756.0
2.5°	4129.1	4111.0	4069.5	3943.4	3833.7	3690.3	3545.2	3431.2	3361.2	3232.5	3173.7
5°	4000.4	4009.1	3889.0	3629.8	3341.3	3144.4	2929.3	2758.2	2569.9	2450.7	2325.4
7.5°	3664.4	3647.1	3516.7	3155.6	2804.9	2519.8	2247.7	2026.6	1887.5	1776.0	1682.8
10°	3376.7	3363.8	3197.1	2732.3	2355.7	2142.3	1958.3	1764.8	1615.4	1452.1	1321.7
12.5°	3196.2	3166.8	2975.1	2489.6	2182.9	1984.2	1783.8	1582.5	1376.1	1211.1	1053.0
15°	3135.7	3093.4	2880.0	2405.8	2072.3	1820.1	1568.7	1337.2	1099.7	917.4	798.2
17.5°	3245.4	3175.5	2948.3	2391.1	1940.2	1605.9	1296.6	995.1	748.1	609.0	535.6
20°	3496.8	3416.5	3121.0	2376.4	1793.3	1365.7	985.6	703.2	517.4	441.4	400.8
22.5°	3870.0	3759.4	3376.7	2399.7	1657.7	1131.6	711.8	496.7	411.2	363.7	335.2
25°	4318.3	4225.9	3700.7	2482.7	1550.6	947.6	550.3	406.0	346.4	317.0	295.4
27.5°	4809.8	4662.1	4119.6	2582.0	1453.0	805.1	482.9	362.8	308.4	281.6	270.4
30°	5159.7	5044.8	4470.4	2651.1	1331.2	698.0	441.4	357.6	309.3	277.3	256.6
32.5°	5505.2	5358.4	4764.1	2683.1	1242.2	623.7	381.8	311.8	271.2	254.8	234.1
35°	5875.0	5721.2	5056.9	2665.8	1175.7	574.5	346.4	278.2	232.4	204.7	184.0
37.5°	6249.0	6086.6	5348.0	2603.6	1134.2	554.6	318.8	264.3	219.4	190.9	168.4
40°	6693.0	6476.2	5621.0	2552.6	1091.0	544.2	300.6	255.7	209.9	179.7	157.2
42.5°	7055.8	6849.4	5879.3	2525.9	1061.7	520.0	300.6	248.8	203.9	170.2	146.9
45°	7399.6	7185.4	6158.3	2547.5	1049.6	489.8	304.1	247.9	199.5	163.3	139.9
47.5°	7687.3	7501.6	6445.1	2628.7	1034.0	457.0	285.9	260.0	197.0	157.2	133.0
50°	8026.8	7847.1	6824.3	2792.8	1006.4	424.1	263.5	279.9	196.1	152.0	127.0
52.5°	8505.3	8311.0	7347.8	2979.4	962.3	374.0	242.7	277.3	192.6	143.4	120.9
55°	9090.2	8932.9	7954.2	3203.1	901.8	317.9	209.9	246.2	182.3	128.7	110.6
57.5°	9465.1	9331.2	8408.6	3299.9	809.4	260.0	184.9	206.5	166.7	114.9	98.5
59°	9509.1	9388.2	8503.6	3267.9	748.9	237.6	172.8	177.1	162.4	107.1	91.6
60°	9472.0	9346.7	8465.6	3205.7	692.8	222.0	162.4	157.2	163.3	102.8	86.4
62.5°	9233.6	9019.3	8096.7	2890.4	605.5	203.9	144.3	128.7	144.3	92.4	76.9
65°	8773.1	8451.8	7366.8	2446.4	571.0	193.5	122.7	108.0	109.7	81.2	66.5
67.5°	7968.9	7563.8	6395.0	1987.7	556.3	194.4	103.7	96.7	84.7	69.1	58.7
70°	6697.3	6293.1	5131.2	1635.2	549.4	194.4	88.1	82.9	70.8	57.9	51.0
72.5°	4745.9	4310.5	3461.4	1284.5	495.0	193.5	75.2	75.2	57.9	48.4	41.5
75°	2681.4	2684.8	2176.0	908.8	411.2	159.8	60.5	59.6	42.3	37.1	31.1
77.5°	1562.7	1535.0	1466.8	390.5	190.9	72.6	42.3	36.3	29.4	26.8	22.5
80°	803.4	660.8	643.6	141.7	68.2	45.8	29.4	20.7	19.0	17.3	15.5
82.5°	237.6	238.4	212.5	57.0	38.0	30.2	14.7	11.2	10.4	9.5	9.5
85°	16.4	10.4	12.1	17.3	23.3	12.1	0.9	2.6	2.6	3.5	4.3
87.5°	1.7	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°	3756.0	3756.0	3756.0	3756.0	3756.0	3756.0	3756.0	3756.0	3756.0	3756.0	3756.0
2.5°	3109.0	3147.0	3076.1	3077.9	3019.1	3038.1	2969.0	2991.5	2950.9	2982.0	3073.5
5°	2339.3	2347.9	2290.9	2272.8	2281.4	2316.8	2330.6	2267.6	2294.4	2241.7	2238.2
7.5°	1648.2	1658.6	1625.7	1621.4	1683.6	1668.9	1695.7	1630.9	1569.6	1596.4	1547.1
10°	1280.2	1237.0	1169.6	1150.6	1138.5	1146.3	1146.3	1087.6	1078.9	1055.6	1091.0
12.5°	1010.7	958.0	894.1	807.7	786.1	784.4	752.4	700.6	684.2	664.3	693.7
15°	734.3	712.7	659.1	610.7	561.5	552.0	500.2	457.8	401.7	393.9	391.3
17.5°	516.6	484.6	483.7	456.1	427.6	408.6	360.2	311.8	290.2	287.7	287.7
20°	387.0	375.8	357.6	354.2	345.5	323.9	280.7	254.8	244.5	245.3	248.8
22.5°	325.7	317.9	301.5	293.7	290.2	271.2	239.3	222.0	216.8	216.8	217.7
25°	291.1	284.2	266.1	254.0	249.6	235.8	210.8	197.8	193.5	193.5	193.5
27.5°	265.2	256.6	237.6	227.2	219.4	203.9	188.3	175.4	171.0	171.0	171.9
30°	247.1	237.6	220.3	206.5	194.4	180.5	167.6	156.4	151.2	150.3	151.2
32.5°	222.9	214.2	197.0	188.3	174.5	158.1	147.7	137.4	132.2	133.0	132.2
35°	173.6	171.0	158.9	161.5	153.8	139.9	130.4	119.2	113.2	112.3	114.0
37.5°	158.1	147.7	133.9	134.8	132.2	127.0	111.4	99.3	95.0	95.0	95.9
40°	146.0	135.6	120.1	112.3	113.2	113.2	96.7	83.8	79.5	78.6	80.3
42.5°	135.6	125.3	108.0	95.0	91.6	95.9	82.1	69.1	64.8	63.1	64.8
45°	128.7	117.5	97.6	82.9	72.6	77.7	67.4	57.0	51.8	51.8	51.0
47.5°	121.8	111.4	89.8	71.7	60.5	57.9	55.3	45.8	40.6	39.7	40.6
50°	115.8	105.4	81.2	62.2	51.0	44.9	44.9	36.3	32.8	31.1	32.0
52.5°	109.7	98.5	73.4	55.3	44.1	36.3	32.0	29.4	26.8	25.9	26.8
55°	101.1	89.8	65.7	47.5	38.0	30.2	25.1	24.2	22.5	20.7	22.5
57.5°	90.7	80.3	57.9	40.6	30.2	23.3	20.7	19.9	18.1	17.3	17.3
59°	84.7	75.2	53.6	35.4	26.8	20.7	19.0	18.1	16.4	14.7	15.5
60°	81.2	73.4	51.0	32.8	24.2	19.0	17.3	16.4	14.7	13.8	14.7
62.5°	71.7	65.7	44.9	26.8	19.0	13.8	12.1	13.0	12.1	11.2	12.1
65°	63.1	57.9	38.0	20.7	14.7	9.5	8.6	11.2	10.4	9.5	10.4
67.5°	56.1	50.1	32.0	15.5	10.4	5.2	6.0	9.5	9.5	8.6	9.5
70°	48.4	43.2	25.9	11.2	5.2	2.6	4.3	6.9	8.6	7.8	8.6
72.5°	39.7	33.7	19.9	7.8	2.6	0.0	2.6	6.0	8.6	7.8	8.6
75°	31.1	25.1	14.7	4.3	0.0	0.0	0.9	5.2	8.6	7.8	8.6
77.5°	22.5	18.1	8.6	0.9	0.0	0.0	0.9	5.2	8.6	7.8	8.6
80°	14.7	13.0	3.5	0.0	0.0	0.0	0.9	5.2	8.6	8.6	9.5
82.5°	9.5	6.9	0.0	0.0	0.0	0.0	1.7	6.9	9.5	10.4	10.4
85°	4.3	0.0	0.0	0.0	0.0	0.0	3.5	8.6	11.2	11.2	11.2
87.5°	0.0	0.0	0.0	0.0	0.0	1.7	6.0	10.4	13.0	13.0	13.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3756.0	3756.0	3756.0	3756.0	3756.0	3756.0	3756.0	3756.0	3756.0	3756.0	3756.0
2.5°	3089.1	3143.5	3220.4	3338.7	3434.6	3585.8	3701.5	3859.6	4019.4	4067.8	4143.0
5°	2273.6	2343.6	2518.1	2677.0	2777.2	3096.9	3299.0	3617.8	3903.7	4041.0	4190.5
7.5°	1579.1	1662.0	1795.1	2017.1	2227.8	2487.9	2814.4	3178.9	3597.9	3794.0	4004.7
10°	1108.3	1212.0	1399.4	1581.7	1846.9	2093.9	2416.2	2818.7	3280.9	3512.4	3776.7
12.5°	699.7	792.1	1040.1	1244.8	1575.6	1862.4	2159.6	2524.1	3059.7	3297.3	3574.6
15°	400.0	477.7	593.5	856.1	1223.2	1602.4	1973.0	2396.3	2946.5	3239.4	3539.1
17.5°	298.0	318.8	370.6	519.2	853.5	1296.6	1801.1	2357.4	3023.4	3367.2	3709.3
20°	250.5	264.3	288.5	347.3	544.2	998.6	1633.5	2364.3	3272.2	3704.1	4028.9
22.5°	224.6	233.2	253.1	291.1	371.5	727.4	1437.4	2404.9	3573.7	4117.9	4492.8
25°	197.0	208.2	225.5	258.3	309.3	504.5	1243.9	2495.6	3996.1	4643.1	4995.6
27.5°	175.4	185.7	203.0	233.2	271.2	385.3	1018.5	2573.4	4441.9	5171.8	5460.3
30°	153.8	164.1	181.4	205.6	240.1	311.8	775.7	2619.2	4874.6	5568.3	5790.3
32.5°	135.6	144.3	160.7	182.3	210.8	264.3	611.6	2571.6	5205.5	5928.5	6077.1
35°	117.5	127.8	141.7	161.5	186.6	225.5	508.8	2407.5	5489.7	6299.1	6352.7
37.5°	98.5	110.6	125.3	143.4	163.3	207.3	408.6	2226.1	5793.8	6761.3	6673.1
40°	82.9	94.2	108.0	127.8	146.0	190.0	314.4	2032.6	6122.0	7194.9	7023.0
42.5°	67.4	79.5	95.9	114.0	144.3	165.9	243.6	1832.2	6416.6	7572.4	7339.2
45°	53.6	63.9	81.2	104.5	143.4	142.5	188.3	1634.4	6638.6	7841.9	7575.0
47.5°	42.3	51.0	68.2	101.9	132.2	120.9	151.2	1511.7	6871.8	8084.7	7755.5
50°	33.7	42.3	58.7	106.3	115.8	103.7	127.0	1531.6	7097.3	8208.2	7829.8
52.5°	28.5	37.1	51.0	83.8	89.0	90.7	111.4	1623.2	7388.4	8340.3	7977.5
55°	25.1	32.8	43.2	58.7	69.1	81.2	101.9	1689.7	7778.0	8623.7	8303.2
57.5°	19.9	28.5	38.9	50.1	57.0	70.8	94.2	1694.8	8130.4	8987.4	8736.0
59°	18.1	25.9	36.3	47.5	51.0	63.9	89.0	1650.8	8143.4	9041.8	8934.7
60°	16.4	25.1	34.6	44.1	48.4	60.5	84.7	1599.8	8025.9	8955.4	9016.7
62.5°	13.8	21.6	30.2	35.4	41.5	50.1	73.4	1415.0	7456.6	8564.1	8864.7
65°	12.1	19.0	25.9	29.4	34.6	43.2	64.8	1132.5	6827.8	8033.7	8429.3
67.5°	11.2	17.3	22.5	25.1	30.2	39.7	57.9	799.9	6013.2	7360.8	7775.4
70°	10.4	16.4	19.9	23.3	26.8	33.7	49.2	466.5	4631.9	6180.8	6618.7
72.5°	10.4	15.5	17.3	19.9	23.3	30.2	45.8	252.2	3166.8	4714.8	5280.6
75°	10.4	14.7	15.5	17.3	20.7	27.6	40.6	132.2	2047.3	3275.7	4042.8
77.5°	10.4	13.8	15.5	16.4	19.9	24.2	35.4	82.9	1364.0	2294.4	2732.3
80°	11.2	13.8	14.7	16.4	19.0	22.5	29.4	55.3	801.6	1380.4	1662.9
82.5°	12.1	13.8	15.5	17.3	19.9	21.6	25.9	34.6	369.7	913.1	1033.1
85°	13.0	14.7	16.4	18.1	20.7	21.6	24.2	25.1	60.5	412.1	557.2
87.5°	13.8	15.5	17.3	19.0	22.5	22.5	22.5	22.5	20.7	44.1	112.3
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-SA3B-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3756.0	3756.0	3756.0	3756.0	3756.0	3756.0	3756.0	3756.0	3756.0	3756.0
2.5°	4238.0	4335.6	4403.8	4421.1	4371.9	4349.4	4287.2	4190.5	4131.7	4129.1
5°	4466.0	4695.0	4853.9	4880.7	4785.7	4625.0	4434.1	4187.9	4043.6	4000.4
7.5°	4427.2	4828.0	5083.7	5120.8	4961.0	4654.4	4284.6	3888.1	3730.9	3664.4
10°	4267.4	4756.3	5121.7	5180.4	4967.1	4535.1	4065.2	3622.9	3427.7	3376.7
12.5°	4130.9	4625.0	4949.8	5031.0	4869.5	4438.4	3933.9	3452.8	3243.7	3196.2
15°	4071.3	4469.5	4668.2	4709.6	4682.9	4377.9	3920.1	3426.8	3187.6	3135.7
17.5°	4130.9	4337.3	4362.4	4404.7	4464.3	4371.9	4053.1	3567.6	3309.4	3245.4
20°	4287.2	4222.4	4118.8	4136.9	4273.4	4396.9	4289.8	3879.5	3565.1	3496.8
22.5°	4553.3	4193.9	3959.0	3943.4	4116.2	4480.7	4637.1	4301.9	3937.4	3870.0
25°	4879.8	4265.6	3900.2	3866.5	4054.9	4603.4	5014.6	4819.3	4421.1	4318.3
27.5°	5235.7	4414.2	3900.2	3867.4	4049.7	4712.2	5337.7	5277.2	4922.1	4809.8
30°	5430.9	4536.9	3956.4	3919.2	4113.6	4775.3	5510.4	5684.0	5298.8	5159.7
32.5°	5605.4	4707.0	4066.1	3996.1	4247.5	4868.6	5665.0	6029.6	5598.5	5505.2
35°	5766.1	4889.3	4217.3	4136.1	4423.7	4996.4	5836.1	6392.4	6015.8	5875.0
37.5°	5943.2	5101.0	4453.1	4384.0	4718.3	5245.2	6039.1	6869.2	6426.1	6249.0
40°	6135.8	5346.3	4840.9	4811.6	5186.5	5526.8	6295.6	7378.0	6894.3	6693.0
42.5°	6331.9	5628.8	5316.1	5364.4	5716.9	5921.6	6559.1	7769.4	7277.8	7055.8
45°	6509.9	5989.8	5933.7	6173.0	6335.4	6306.9	6754.3	8044.9	7612.1	7399.6
47.5°	6734.5	6515.9	6680.9	7049.8	7054.1	6725.8	6902.1	8270.4	7899.8	7687.3
50°	6985.9	7137.0	7645.8	8021.6	7920.5	7137.9	7074.8	8537.3	8197.0	8026.8
52.5°	7277.0	7832.4	8537.3	8954.5	8718.7	7587.1	7362.5	8825.8	8668.6	8505.3
55°	7615.6	8306.7	9426.2	9758.8	9521.2	8145.1	7799.6	9217.1	9201.6	9090.2
57.5°	7998.3	8807.7	9941.0	10391.1	10179.5	8799.9	8410.3	9586.0	9527.3	9465.1
59°	8300.6	9065.1	10168.2	10634.7	10506.9	9258.6	8820.6	9815.8	9602.4	9509.1
60°	8483.7	9239.6	10252.0	10667.5	10638.2	9531.6	9080.7	9928.1	9601.6	9472.0
62.5°	9027.1	9544.5	10220.1	10521.5	10636.4	10055.1	9843.4	10051.6	9423.6	9233.6
65°	9220.6	9443.5	9690.5	9653.4	9751.9	10028.3	10330.6	9916.0	9043.5	8773.1
67.5°	8844.0	8335.2	8422.4	8174.5	8126.1	8915.7	10132.8	9252.6	8299.7	7968.9
70°	7454.9	6385.5	6341.4	6455.5	6142.7	7218.2	9098.8	7974.9	7072.2	6697.3
72.5°	5868.0	4512.7	4141.2	4561.1	4551.6	5507.0	7558.6	5659.0	4777.9	4745.9
75°	4614.6	3141.8	2757.4	2825.6	2956.9	3986.6	6020.1	3593.6	2942.2	2681.4
77.5°	3097.7	2226.1	2076.7	1992.9	2134.5	2559.5	3808.7	1948.8	1649.9	1562.7
80°	1785.6	1617.1	1836.5	1667.2	1743.2	1612.8	1894.4	894.1	742.0	803.4
82.5°	1161.9	920.9	981.3	729.1	996.9	1005.5	608.1	264.3	223.7	237.6
85°	726.5	431.9	242.7	172.8	343.8	632.3	190.0	16.4	19.0	16.4
87.5°	188.3	71.7	30.2	44.9	55.3	49.2	44.1	2.6	0.9	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)