

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: P459223

Luminaire Tested: **GALN-SA7A-735-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459223
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-SA7A-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 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: 21309 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

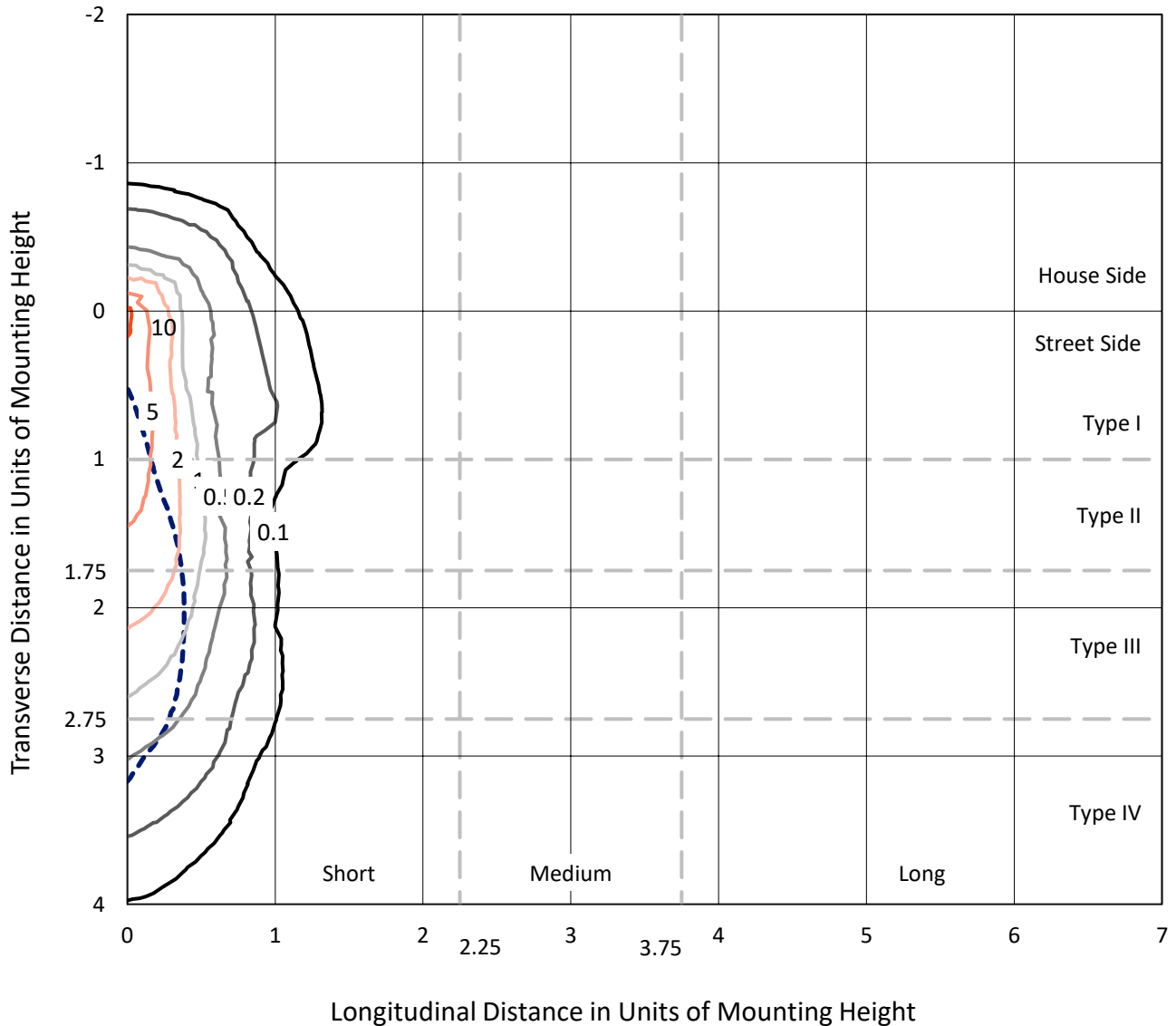
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

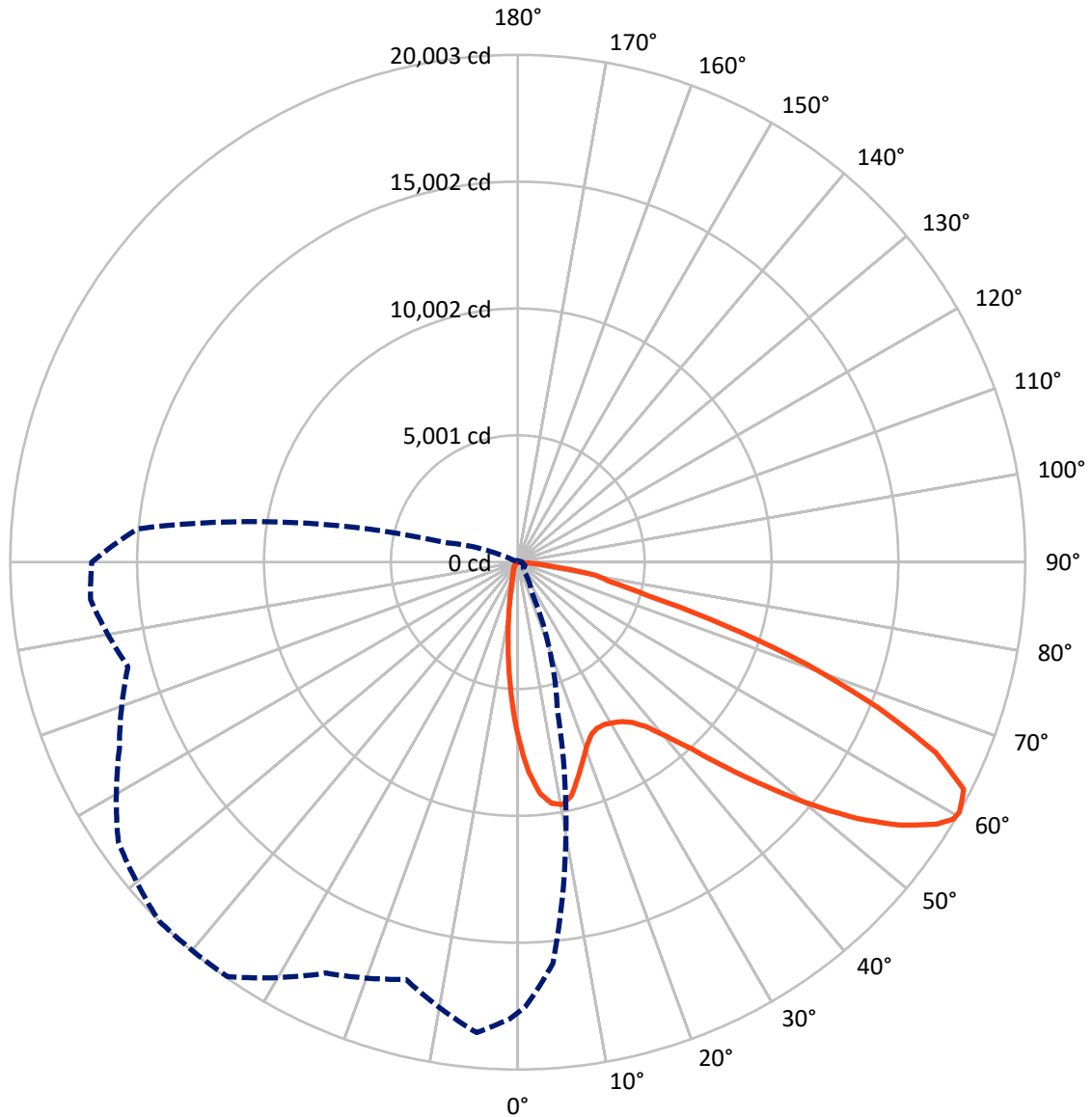
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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	2628.3	0.0	2628.3
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	18680.7	0.0	18680.7
	% Fixture	87.7	0.0	87.7
Total	Lumens	21309.0	0.0	21309.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.8	2.5
10°-20°	1040.3	4.9
20°-30°	1525.4	7.2
30°-40°	2268.5	10.6
40°-50°	3301.4	15.5
50°-60°	4760.9	22.3
60°-70°	5236.5	24.6
70°-80°	2345.5	11.0
80°-90°	306.5	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°	21309.0	100.0
0°-180°	21309.0	100.0

Coefficient of Utilization



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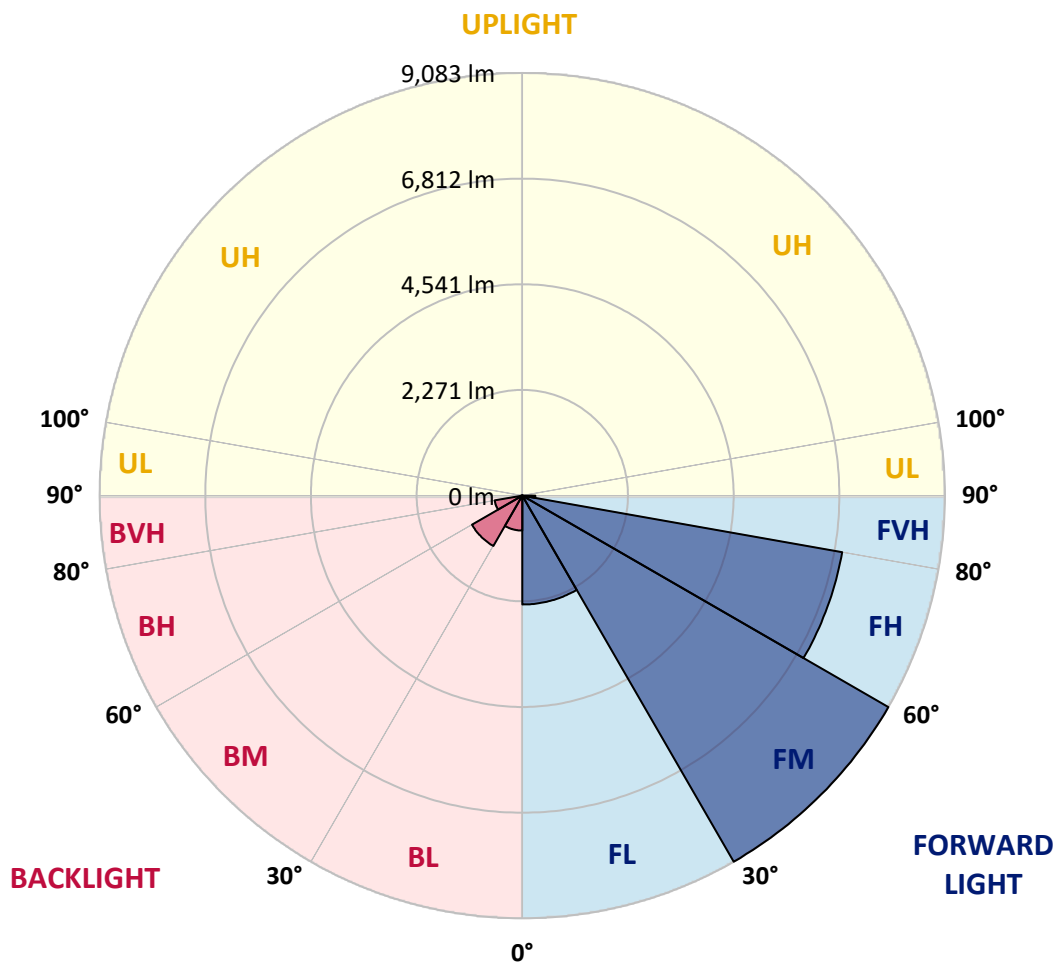
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2338.6	11.0			
FM	(30°-60°)	9082.6	42.6			
FH	(60°-80°)	6979.3	32.8			G3/7500
FVH	(80°-90°)	280.3	1.3			G3/500
BL	(0°-30°)	751.0	3.5	B2/1000		
BM	(30°-60°)	1248.4	5.9	B2/2500		
BH	(60°-80°)	602.7	2.8	B2/1000		G2/1000
BVH	(80°-90°)	26.2	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°	7042.9	7042.9	7042.9	7042.9	7042.9	7042.9	7042.9	7042.9	7042.9	7042.9	7042.9
2.5°	7742.7	7708.7	7630.9	7394.4	7188.7	6919.8	6647.7	6433.9	6302.7	6061.3	5951.2
5°	7501.3	7517.5	7292.4	6806.4	6265.4	5896.1	5492.8	5172.0	4818.9	4595.4	4360.5
7.5°	6871.2	6838.8	6594.2	5917.2	5259.5	4725.0	4214.7	3800.1	3539.3	3330.3	3155.4
10°	6331.8	6307.5	5994.9	5123.5	4417.2	4017.1	3672.1	3309.3	3029.0	2722.9	2478.3
12.5°	5993.3	5938.2	5578.6	4668.3	4093.3	3720.7	3344.9	2967.5	2580.4	2271.0	1974.5
15°	5879.9	5800.5	5400.4	4511.2	3885.9	3412.9	2941.6	2507.5	2062.0	1720.2	1496.7
17.5°	6085.6	5954.4	5528.4	4483.6	3638.1	3011.2	2431.3	1866.0	1402.8	1142.0	1004.3
20°	6557.0	6406.3	5852.4	4456.1	3362.7	2560.9	1848.2	1318.5	970.3	827.7	751.6
22.5°	7256.7	7049.4	6331.8	4499.8	3108.4	2121.9	1334.7	931.4	771.0	681.9	628.5
25°	8097.4	7924.1	6939.3	4655.3	2907.6	1776.9	1031.8	761.3	649.5	594.5	554.0
27.5°	9019.1	8742.1	7724.9	4841.6	2724.5	1509.7	905.5	680.3	578.3	528.1	507.0
30°	9675.1	9459.7	8382.5	4971.2	2496.1	1308.8	827.7	670.6	579.9	520.0	481.1
32.5°	10323.0	10047.7	8933.2	5031.1	2329.3	1169.5	716.0	584.8	508.6	477.8	439.0
35°	11016.3	10728.0	9482.4	4998.7	2204.6	1077.2	649.5	521.6	435.7	383.9	345.0
37.5°	11717.7	11413.2	10028.2	4882.1	2126.8	1039.9	597.7	495.7	411.4	358.0	315.9
40°	12550.3	12143.7	10540.1	4786.5	2045.8	1020.5	563.7	479.5	393.6	336.9	294.8
42.5°	13230.6	12843.5	11024.4	4736.3	1990.7	975.1	563.7	466.5	382.3	319.1	275.4
45°	13875.3	13473.6	11547.6	4776.8	1968.1	918.4	570.2	464.9	374.2	306.1	262.4
47.5°	14414.7	14066.4	12085.4	4929.1	1938.9	856.9	536.2	487.6	369.3	294.8	249.5
50°	15051.3	14714.3	12796.5	5236.8	1887.1	795.3	494.0	524.8	367.7	285.1	238.1
52.5°	15948.6	15584.2	13778.1	5586.7	1804.5	701.4	455.2	520.0	361.2	268.9	226.8
55°	17045.2	16750.4	14915.2	6006.3	1691.1	596.1	393.6	461.6	341.8	241.4	207.3
57.5°	17748.2	17497.2	15767.2	6187.7	1517.8	487.6	346.6	387.1	312.6	215.4	184.7
59°	17830.9	17604.1	15945.4	6127.7	1404.4	445.4	324.0	332.1	304.5	200.9	171.7
60°	17761.2	17526.3	15874.1	6011.1	1299.1	416.3	304.5	294.8	306.1	192.8	162.0
62.5°	17314.1	16912.4	15182.5	5419.9	1135.5	382.3	270.5	241.4	270.5	173.3	144.2
65°	16450.8	15848.2	13813.7	4587.3	1070.7	362.8	230.0	202.5	205.7	152.3	124.7
67.5°	14942.7	14183.0	11991.4	3727.2	1043.2	364.5	194.4	181.4	158.7	129.6	110.1
70°	12558.4	11800.3	9621.7	3066.3	1030.2	364.5	165.2	155.5	132.8	108.5	95.6
72.5°	8899.2	8082.8	6490.6	2408.7	928.2	362.8	140.9	140.9	108.5	90.7	77.8
75°	5027.9	5034.4	4080.3	1704.0	771.0	299.7	113.4	111.8	79.4	69.7	58.3
77.5°	2930.2	2878.4	2750.4	732.2	358.0	136.1	79.4	68.0	55.1	50.2	42.1
80°	1506.4	1239.2	1206.8	265.6	128.0	85.8	55.1	38.9	35.6	32.4	29.2
82.5°	445.4	447.1	398.5	106.9	71.3	56.7	27.5	21.1	19.4	17.8	17.8
85°	30.8	19.4	22.7	32.4	43.7	22.7	1.6	4.9	4.9	6.5	8.1
87.5°	3.2	1.6	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°	7042.9	7042.9	7042.9	7042.9	7042.9	7042.9	7042.9	7042.9	7042.9	7042.9	7042.9
2.5°	5829.7	5901.0	5768.1	5771.4	5661.2	5696.9	5567.3	5609.4	5533.3	5591.6	5763.3
5°	4386.4	4402.6	4295.7	4261.7	4277.9	4344.3	4370.2	4252.0	4302.2	4203.4	4196.9
7.5°	3090.6	3110.0	3048.5	3040.4	3157.0	3129.5	3179.7	3058.2	2943.2	2993.4	2901.1
10°	2400.6	2319.6	2193.2	2157.6	2134.9	2149.5	2149.5	2039.3	2023.1	1979.4	2045.8
12.5°	1895.2	1796.4	1676.5	1514.5	1474.0	1470.8	1410.9	1313.7	1282.9	1245.6	1300.7
15°	1376.8	1336.3	1235.9	1145.2	1052.9	1035.1	937.9	858.5	753.2	738.6	733.8
17.5°	968.6	908.7	907.1	855.3	801.8	766.2	675.5	584.8	544.3	539.4	539.4
20°	725.7	704.6	670.6	664.1	647.9	607.4	526.4	477.8	458.4	460.0	466.5
22.5°	610.7	596.1	565.3	550.7	544.3	508.6	448.7	416.3	406.6	406.6	408.2
25°	545.9	532.9	498.9	476.2	468.1	442.2	395.2	370.9	362.8	362.8	362.8
27.5°	497.3	481.1	445.4	426.0	411.4	382.3	353.1	328.8	320.7	320.7	322.3
30°	463.3	445.4	413.1	387.1	364.5	338.5	314.2	293.2	283.5	281.8	283.5
32.5°	417.9	401.7	369.3	353.1	327.2	296.4	277.0	257.5	247.8	249.5	247.8
35°	325.6	320.7	298.0	302.9	288.3	262.4	244.6	223.5	212.2	210.6	213.8
37.5°	296.4	277.0	251.1	252.7	247.8	238.1	209.0	186.3	178.2	178.2	179.8
40°	273.7	254.3	225.2	210.6	212.2	212.2	181.4	157.1	149.0	147.4	150.6
42.5°	254.3	234.9	202.5	178.2	171.7	179.8	153.9	129.6	121.5	118.2	121.5
45°	241.4	220.3	183.0	155.5	136.1	145.8	126.3	106.9	97.2	97.2	95.6
47.5°	228.4	209.0	168.5	134.4	113.4	108.5	103.7	85.8	76.1	74.5	76.1
50°	217.1	197.6	152.3	116.6	95.6	84.2	84.2	68.0	61.6	58.3	59.9
52.5°	205.7	184.7	137.7	103.7	82.6	68.0	59.9	55.1	50.2	48.6	50.2
55°	189.5	168.5	123.1	89.1	71.3	56.7	47.0	45.4	42.1	38.9	42.1
57.5°	170.1	150.6	108.5	76.1	56.7	43.7	38.9	37.3	34.0	32.4	32.4
59°	158.7	140.9	100.4	66.4	50.2	38.9	35.6	34.0	30.8	27.5	29.2
60°	152.3	137.7	95.6	61.6	45.4	35.6	32.4	30.8	27.5	25.9	27.5
62.5°	134.4	123.1	84.2	50.2	35.6	25.9	22.7	24.3	22.7	21.1	22.7
65°	118.2	108.5	71.3	38.9	27.5	17.8	16.2	21.1	19.4	17.8	19.4
67.5°	105.3	93.9	59.9	29.2	19.4	9.7	11.3	17.8	17.8	16.2	17.8
70°	90.7	81.0	48.6	21.1	9.7	4.9	8.1	13.0	16.2	14.6	16.2
72.5°	74.5	63.2	37.3	14.6	4.9	0.0	4.9	11.3	16.2	14.6	16.2
75°	58.3	47.0	27.5	8.1	0.0	0.0	1.6	9.7	16.2	14.6	16.2
77.5°	42.1	34.0	16.2	1.6	0.0	0.0	1.6	9.7	16.2	14.6	16.2
80°	27.5	24.3	6.5	0.0	0.0	0.0	1.6	9.7	16.2	16.2	17.8
82.5°	17.8	13.0	0.0	0.0	0.0	0.0	3.2	13.0	17.8	19.4	19.4
85°	8.1	0.0	0.0	0.0	0.0	0.0	6.5	16.2	21.1	21.1	21.1
87.5°	0.0	0.0	0.0	0.0	0.0	3.2	11.3	19.4	24.3	24.3	24.3
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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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7042.9	7042.9	7042.9	7042.9	7042.9	7042.9	7042.9	7042.9	7042.9	7042.9	7042.9
2.5°	5792.4	5894.5	6038.6	6260.6	6440.4	6723.8	6940.9	7237.3	7537.0	7627.7	7768.6
5°	4263.3	4394.5	4721.7	5019.8	5207.7	5807.0	6186.1	6783.8	7319.9	7577.5	7857.7
7.5°	2961.0	3116.5	3366.0	3782.3	4177.5	4665.0	5277.3	5960.9	6746.5	7114.2	7509.4
10°	2078.2	2272.6	2624.1	2965.9	3463.2	3926.4	4530.6	5285.4	6152.0	6586.1	7081.8
12.5°	1312.0	1485.4	1950.2	2334.1	2954.5	3492.3	4049.5	4733.1	5737.4	6182.8	6702.8
15°	750.0	895.8	1112.8	1605.2	2293.6	3004.7	3699.6	4493.3	5525.2	6074.3	6636.4
17.5°	558.8	597.7	694.9	973.5	1600.4	2431.3	3377.3	4420.5	5669.3	6314.0	6955.5
20°	469.7	495.7	541.0	651.2	1020.5	1872.5	3063.1	4433.4	6135.8	6945.7	7554.8
22.5°	421.2	437.3	474.6	545.9	696.5	1363.9	2695.4	4509.5	6701.1	7721.6	8424.6
25°	369.3	390.4	422.8	484.3	579.9	946.0	2332.5	4679.6	7493.2	8706.5	9367.4
27.5°	328.8	348.3	380.7	437.3	508.6	722.4	1909.8	4825.4	8329.1	9697.8	10238.8
30°	288.3	307.8	340.2	385.5	450.3	584.8	1454.6	4911.3	9140.6	10441.3	10857.6
32.5°	254.3	270.5	301.3	341.8	395.2	495.7	1146.8	4822.2	9761.0	11116.7	11395.4
35°	220.3	239.7	265.6	302.9	349.9	422.8	954.1	4514.4	10293.9	11811.6	11912.1
37.5°	184.7	207.3	234.9	268.9	306.1	388.8	766.2	4174.2	10864.1	12678.2	12513.0
40°	155.5	176.6	202.5	239.7	273.7	356.4	589.6	3811.4	11479.6	13491.4	13169.0
42.5°	126.3	149.0	179.8	213.8	270.5	311.0	456.8	3435.6	12031.9	14199.2	13761.9
45°	100.4	119.9	152.3	196.0	268.9	267.3	353.1	3064.7	12448.2	14704.6	14204.1
47.5°	79.4	95.6	128.0	191.1	247.8	226.8	283.5	2834.7	12885.6	15159.8	14542.6
50°	63.2	79.4	110.1	199.2	217.1	194.4	238.1	2871.9	13308.3	15391.4	14681.9
52.5°	53.5	69.7	95.6	157.1	166.8	170.1	209.0	3043.6	13854.2	15639.3	14958.9
55°	47.0	61.6	81.0	110.1	129.6	152.3	191.1	3168.3	14584.8	16170.6	15569.6
57.5°	37.3	53.5	72.9	93.9	106.9	132.8	176.6	3178.1	15245.6	16852.5	16381.1
59°	34.0	48.6	68.0	89.1	95.6	119.9	166.8	3095.5	15269.9	16954.5	16753.7
60°	30.8	47.0	64.8	82.6	90.7	113.4	158.7	2999.9	15049.6	16792.6	16907.6
62.5°	25.9	40.5	56.7	66.4	77.8	93.9	137.7	2653.2	13982.2	16058.8	16622.5
65°	22.7	35.6	48.6	55.1	64.8	81.0	121.5	2123.6	12803.0	15064.2	15806.1
67.5°	21.1	32.4	42.1	47.0	56.7	74.5	108.5	1499.9	11275.5	13802.4	14579.9
70°	19.4	30.8	37.3	43.7	50.2	63.2	92.3	874.7	8685.4	11589.7	12411.0
72.5°	19.4	29.2	32.4	37.3	43.7	56.7	85.8	473.0	5938.2	8840.9	9901.9
75°	19.4	27.5	29.2	32.4	38.9	51.8	76.1	247.8	3838.9	6142.3	7580.7
77.5°	19.4	25.9	29.2	30.8	37.3	45.4	66.4	155.5	2557.7	4302.2	5123.5
80°	21.1	25.9	27.5	30.8	35.6	42.1	55.1	103.7	1503.2	2588.5	3118.1
82.5°	22.7	25.9	29.2	32.4	37.3	40.5	48.6	64.8	693.3	1712.1	1937.3
85°	24.3	27.5	30.8	34.0	38.9	40.5	45.4	47.0	113.4	772.6	1044.8
87.5°	25.9	29.2	32.4	35.6	42.1	42.1	42.1	42.1	38.9	82.6	210.6
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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CATALOG NUMBER: GALN-SA7A-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7042.9	7042.9	7042.9	7042.9	7042.9	7042.9	7042.9	7042.9	7042.9	7042.9
2.5°	7946.8	8129.8	8257.8	8290.2	8197.9	8155.7	8039.1	7857.7	7747.5	7742.7
5°	8374.4	8803.7	9101.7	9151.9	8973.7	8672.5	8314.5	7852.8	7582.3	7501.3
7.5°	8301.5	9053.1	9532.6	9602.2	9302.6	8727.5	8034.3	7290.8	6996.0	6871.2
10°	8001.9	8918.7	9603.8	9714.0	9313.9	8504.0	7622.8	6793.5	6427.4	6331.8
12.5°	7745.9	8672.5	9281.5	9433.8	9130.9	8322.6	7376.6	6474.4	6082.4	5993.3
15°	7634.2	8380.9	8753.4	8831.2	8781.0	8209.2	7350.7	6425.8	5977.1	5879.9
17.5°	7745.9	8133.1	8180.0	8259.4	8371.2	8197.9	7600.1	6689.8	6205.5	6085.6
20°	8039.1	7917.6	7723.2	7757.3	8013.2	8244.8	8044.0	7274.6	6685.0	6557.0
22.5°	8538.0	7864.2	7423.6	7394.4	7718.4	8401.9	8695.1	8066.6	7383.1	7256.7
25°	9150.3	7998.6	7313.4	7250.3	7603.4	8632.0	9403.0	9036.9	8290.2	8097.4
27.5°	9817.7	8277.2	7313.4	7251.9	7593.7	8836.1	10008.8	9895.4	9229.7	9019.1
30°	10183.7	8507.2	7418.7	7349.1	7713.5	8954.3	10332.8	10658.3	9935.9	9675.1
32.5°	10510.9	8826.3	7624.4	7493.2	7964.6	9129.2	10622.7	11306.3	10498.0	10323.0
35°	10812.2	9168.1	7907.9	7755.6	8295.0	9369.0	10943.4	11986.6	11280.3	11016.3
37.5°	11144.3	9565.0	8350.1	8220.5	8847.4	9835.5	11324.1	12880.7	12049.8	11717.7
40°	11505.5	10025.0	9077.4	9022.3	9725.3	10363.5	11805.2	13834.8	12927.7	12550.3
42.5°	11873.2	10554.7	9968.3	10059.0	10719.9	11103.8	12299.2	14568.6	13646.9	13230.6
45°	12206.9	11231.8	11126.5	11575.2	11879.7	11826.2	12665.3	15085.3	14273.8	13875.3
47.5°	12628.0	12218.2	12527.6	13219.3	13227.4	12611.8	12942.3	15508.1	14813.2	14414.7
50°	13099.4	13382.9	14336.9	15041.5	14852.0	13384.5	13266.2	16008.6	15370.4	15051.3
52.5°	13645.3	14686.8	16008.6	16790.9	16348.7	14226.8	13805.6	16549.6	16254.8	15948.6
55°	14280.2	15576.1	17675.4	18299.0	17853.5	15273.2	14625.3	17283.4	17254.2	17045.2
57.5°	14997.8	16515.6	18640.8	19484.7	19087.8	16501.0	15770.5	17975.0	17864.9	17748.2
59°	15564.7	16998.3	19066.8	19941.5	19701.7	17361.1	16539.9	18405.9	18005.8	17830.9
60°	15908.1	17325.5	19223.9	20003.0	19947.9	17873.0	17027.4	18616.5	18004.2	17761.2
62.5°	16927.0	17897.3	19164.0	19729.3	19944.7	18854.6	18457.7	18848.1	17670.5	17314.1
65°	17289.8	17707.8	18171.0	18101.4	18286.0	18804.4	19371.3	18593.8	16957.8	16450.8
67.5°	16583.6	15629.5	15793.1	15328.3	15237.5	16718.0	19000.4	17349.8	15563.1	14942.7
70°	13979.0	11973.6	11891.0	12104.8	11518.5	13535.1	17061.4	14954.1	13261.4	12558.4
72.5°	11003.4	8461.9	7765.4	8552.6	8534.8	10326.3	14173.3	10611.4	8959.2	8899.2
75°	8653.0	5891.2	5170.4	5298.4	5544.6	7475.4	11288.4	6738.4	5517.1	5027.9
77.5°	5808.6	4174.2	3894.0	3736.9	4002.5	4799.5	7141.7	3654.3	3093.8	2930.2
80°	3348.1	3032.3	3443.7	3126.2	3268.8	3024.2	3552.2	1676.5	1391.4	1506.4
82.5°	2178.6	1726.7	1840.1	1367.1	1869.3	1885.5	1140.3	495.7	419.5	445.4
85°	1362.3	809.9	455.2	324.0	644.7	1185.7	356.4	30.8	35.6	30.8
87.5°	353.1	134.4	56.7	84.2	103.7	92.3	82.6	4.9	1.6	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)