

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: P457628

Luminaire Tested: **GALN-SA9A-727-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457628
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-SA9A-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 24899 lumens
Efficiency: N/A
Efficacy: 90.9 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

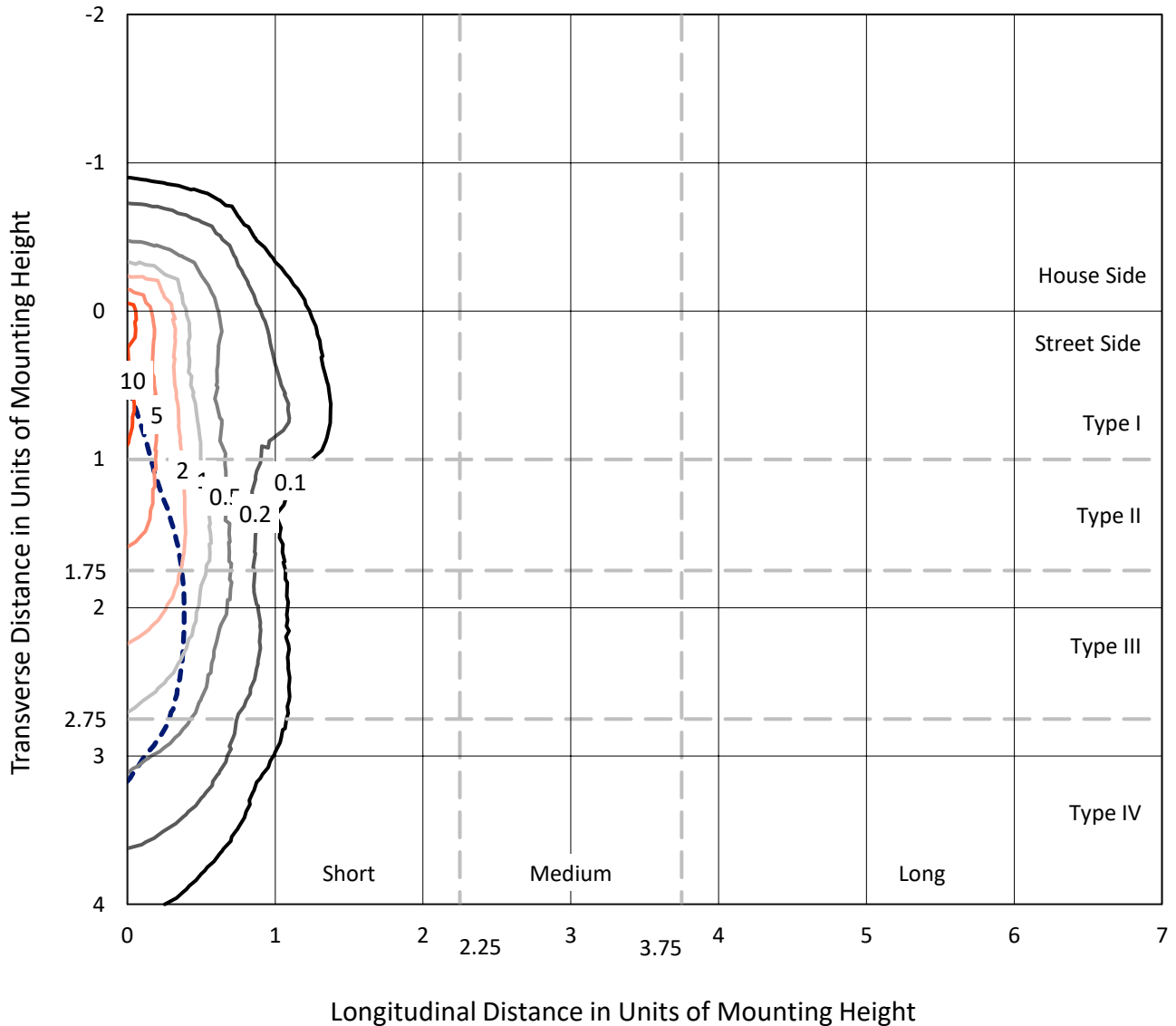
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

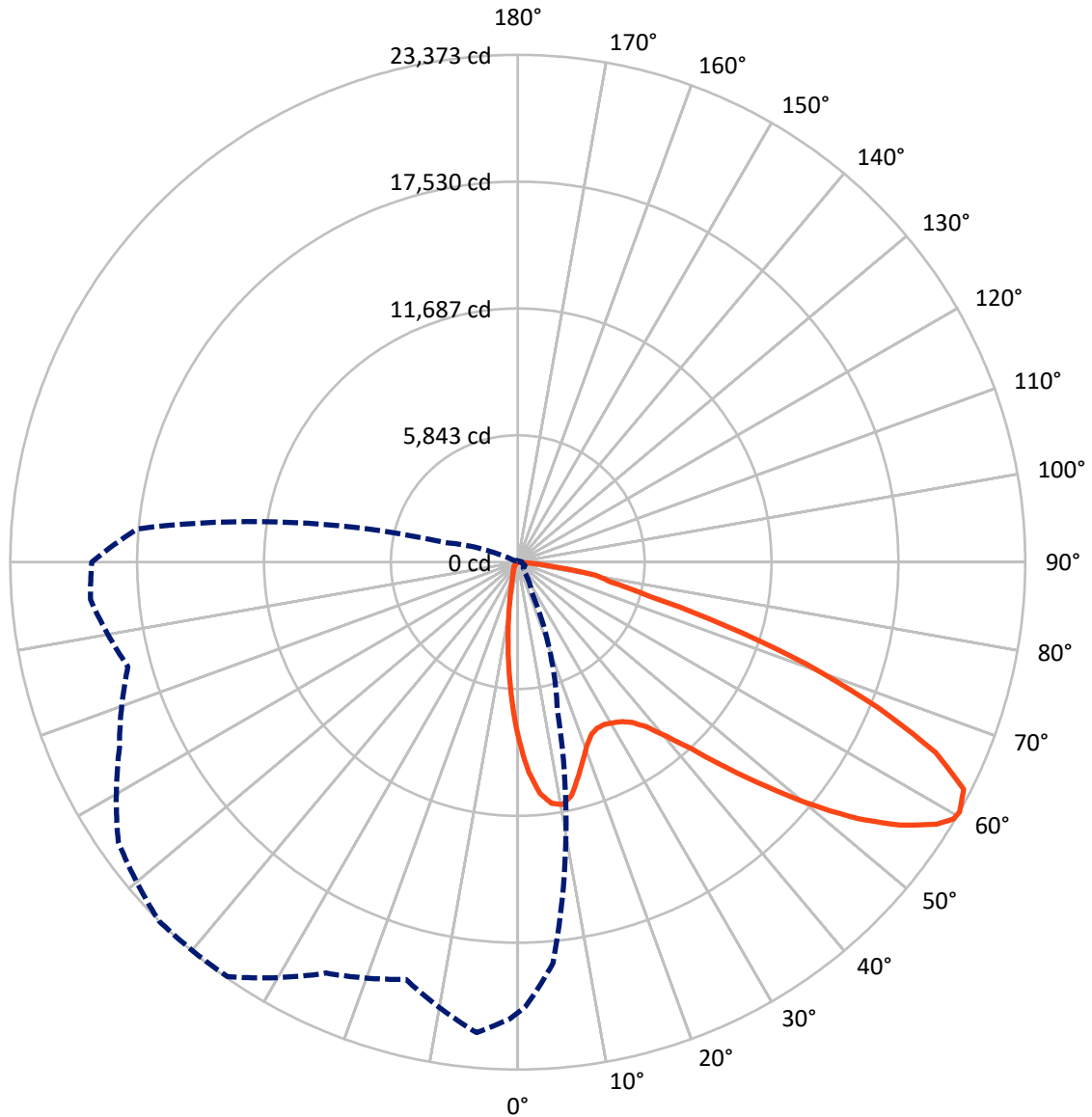
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 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	3071.0	0.0	3071.0
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	21828.0	0.0	21828.0
	% Fixture	87.7	0.0	87.7
Total	Lumens	24899.0	0.0	24899.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	612.1	2.5
10°-20°	1215.6	4.9
20°-30°	1782.4	7.2
30°-40°	2650.7	10.6
40°-50°	3857.6	15.5
50°-60°	5563.0	22.3
60°-70°	6118.7	24.6
70°-80°	2740.7	11.0
80°-90°	358.1	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°	24899.0	100.0
0°-180°	24899.0	100.0

Coefficient of Utilization



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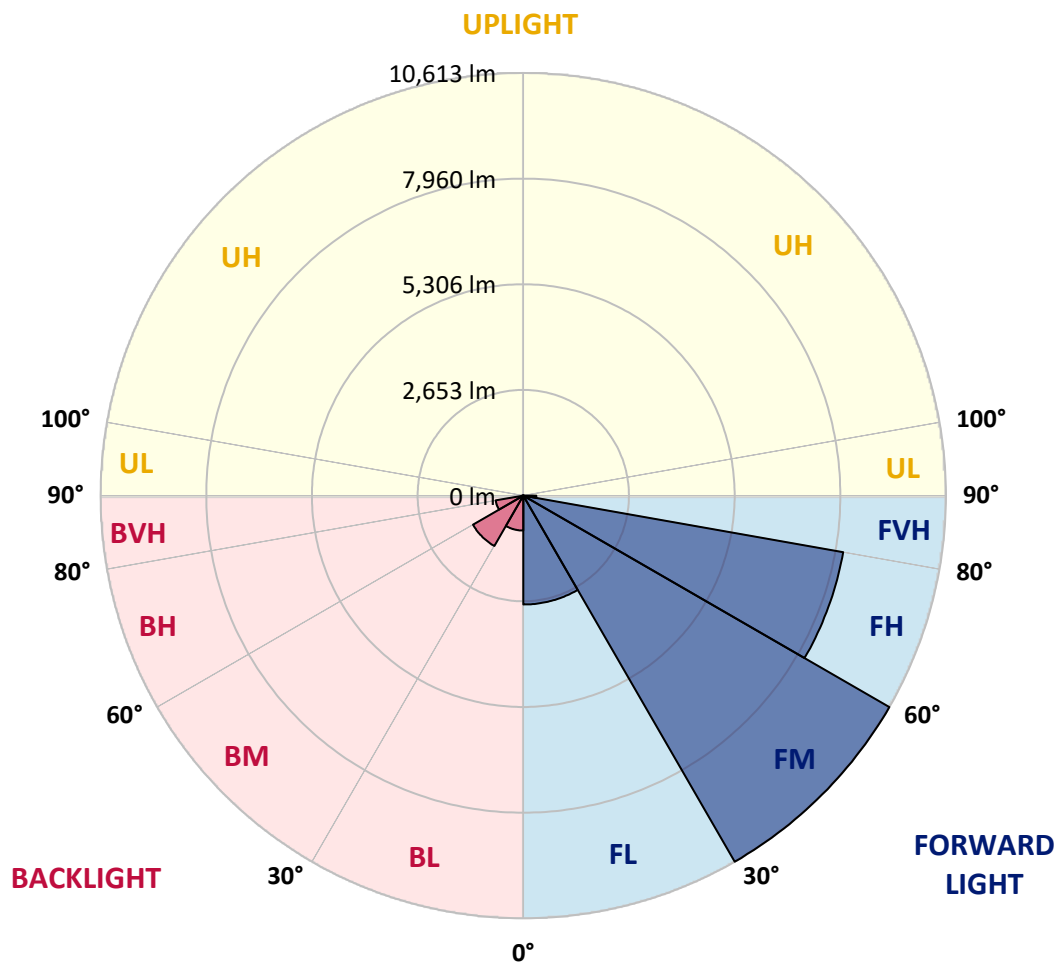
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2732.6	11.0			
FM	(30°-60°)	10612.7	42.6			
FH	(60°-80°)	8155.2	32.8			G4/12000
FVH	(80°-90°)	327.5	1.3			G3/500
BL	(0°-30°)	877.5	3.5	B2/1000		
BM	(30°-60°)	1458.7	5.9	B2/2500		
BH	(60°-80°)	704.3	2.8	B2/1000		G2/1000
BVH	(80°-90°)	30.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	8229.5	8229.5	8229.5	8229.5	8229.5	8229.5	8229.5	8229.5	8229.5	8229.5	8229.5
2.5°	9047.1	9007.4	8916.5	8640.2	8399.8	8085.6	7767.7	7517.8	7364.5	7082.5	6953.8
5°	8765.1	8784.0	8521.0	7953.1	7321.0	6889.4	6418.2	6043.4	5630.8	5369.6	5095.2
7.5°	8028.8	7991.0	7705.2	6914.0	6145.6	5521.0	4924.8	4440.3	4135.6	3891.4	3687.0
10°	7398.6	7370.2	7004.9	5986.6	5161.4	4693.9	4290.8	3866.8	3539.4	3181.6	2895.8
12.5°	7003.0	6938.7	6518.5	5454.8	4782.9	4347.5	3908.4	3467.4	3015.1	2653.6	2307.2
15°	6870.5	6777.8	6310.3	5271.2	4540.6	3987.9	3437.1	2929.9	2409.4	2010.1	1748.9
17.5°	7110.9	6957.6	6459.8	5239.0	4251.0	3518.5	2840.9	2180.4	1639.1	1334.4	1173.5
20°	7661.7	7485.6	6838.3	5206.8	3929.3	2992.4	2159.6	1540.7	1133.7	967.2	878.2
22.5°	8479.3	8237.0	7398.6	5257.9	3632.1	2479.4	1559.6	1088.3	900.9	796.8	734.4
25°	9461.6	9259.1	8108.3	5439.6	3397.4	2076.3	1205.7	889.6	759.0	694.6	647.3
27.5°	10538.6	10214.9	9026.3	5657.3	3183.5	1764.0	1058.0	794.9	675.7	617.0	592.4
30°	11305.1	11053.4	9794.7	5808.7	2916.7	1529.3	967.2	783.6	677.6	607.6	562.1
32.5°	12062.2	11740.4	10438.3	5878.7	2721.7	1366.5	836.6	683.3	594.3	558.3	512.9
35°	12872.3	12535.4	11079.9	5840.9	2576.0	1258.6	759.0	609.5	509.1	448.6	403.1
37.5°	13691.8	13336.0	11717.7	5704.6	2485.1	1215.1	698.4	579.2	480.7	418.3	369.1
40°	14664.7	14189.6	12315.8	5592.9	2390.5	1192.4	658.7	560.2	459.9	393.7	344.5
42.5°	15459.6	15007.2	12881.7	5534.3	2326.1	1139.4	658.7	545.1	446.7	372.9	321.8
45°	16212.9	15743.5	13493.1	5581.6	2299.6	1073.2	666.2	543.2	437.2	357.7	306.6
47.5°	16843.2	16436.2	14121.5	5759.5	2265.6	1001.2	626.5	569.7	431.5	344.5	291.5
50°	17587.0	17193.3	14952.4	6119.1	2205.0	929.3	577.3	613.2	429.6	333.1	278.2
52.5°	18635.6	18209.7	16099.3	6527.9	2108.5	819.5	531.8	607.6	422.1	314.2	265.0
55°	19916.9	19572.4	17428.0	7018.1	1976.0	696.5	459.9	539.4	399.4	282.0	242.3
57.5°	20738.4	20445.0	18423.6	7230.1	1773.5	569.7	405.0	452.4	365.3	251.7	215.8
59°	20834.9	20569.9	18631.8	7160.1	1641.0	520.5	378.5	388.0	355.8	234.7	200.6
60°	20753.5	20479.1	18548.5	7023.8	1517.9	486.4	355.8	344.5	357.7	225.2	189.3
62.5°	20231.1	19761.7	17740.3	6333.0	1326.8	446.7	316.1	282.0	316.1	202.5	168.5
65°	19222.3	18518.2	16141.0	5360.1	1251.1	424.0	268.8	236.6	240.4	177.9	145.7
67.5°	17460.2	16572.5	14011.7	4355.1	1218.9	425.9	227.1	212.0	185.5	151.4	128.7
70°	14674.1	13788.3	11242.7	3582.9	1203.8	425.9	193.1	181.7	155.2	126.8	111.7
72.5°	10398.5	9444.6	7584.1	2814.5	1084.5	424.0	164.7	164.7	126.8	106.0	90.8
75°	5875.0	5882.5	4767.7	1991.1	900.9	350.2	132.5	130.6	92.7	81.4	68.1
77.5°	3423.9	3363.3	3213.8	855.5	418.3	159.0	92.7	79.5	64.4	58.7	49.2
80°	1760.2	1447.9	1410.1	310.4	149.5	100.3	64.4	45.4	41.6	37.9	34.1
82.5°	520.5	522.4	465.6	124.9	83.3	66.2	32.2	24.6	22.7	20.8	20.8
85°	36.0	22.7	26.5	37.9	51.1	26.5	1.9	5.7	5.7	7.6	9.5
87.5°	3.8	1.9	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°	8229.5	8229.5	8229.5	8229.5	8229.5	8229.5	8229.5	8229.5	8229.5	8229.5	8229.5
2.5°	6811.8	6895.1	6739.9	6743.7	6615.0	6656.6	6505.2	6554.4	6465.5	6533.6	6734.2
5°	5125.4	5144.4	5019.5	4979.7	4998.6	5076.2	5106.5	4968.3	5027.0	4911.6	4904.0
7.5°	3611.3	3634.0	3562.1	3552.6	3688.9	3656.7	3715.4	3573.4	3439.0	3497.7	3389.8
10°	2805.0	2710.4	2562.7	2521.1	2494.6	2511.6	2511.6	2382.9	2364.0	2312.9	2390.5
12.5°	2214.5	2099.0	1958.9	1769.7	1722.4	1718.6	1648.5	1535.0	1499.0	1455.5	1519.8
15°	1608.8	1561.5	1444.1	1338.1	1230.3	1209.4	1095.9	1003.1	880.1	863.1	857.4
17.5°	1131.8	1061.8	1059.9	999.3	936.9	895.2	789.3	683.3	635.9	630.3	630.3
20°	847.9	823.3	783.6	776.0	757.1	709.8	615.1	558.3	535.6	537.5	545.1
22.5°	713.5	696.5	660.6	643.5	635.9	594.3	524.3	486.4	475.1	475.1	477.0
25°	637.8	622.7	583.0	556.5	547.0	516.7	461.8	433.4	424.0	424.0	424.0
27.5°	581.1	562.1	520.5	497.8	480.7	446.7	412.6	384.2	374.8	374.8	376.6
30°	541.3	520.5	482.6	452.4	425.9	395.6	367.2	342.6	331.2	329.3	331.2
32.5°	488.3	469.4	431.5	412.6	382.3	346.4	323.7	300.9	289.6	291.5	289.6
35°	380.4	374.8	348.3	353.9	336.9	306.6	285.8	261.2	247.9	246.1	249.8
37.5°	346.4	323.7	293.4	295.3	289.6	278.2	244.2	217.7	208.2	208.2	210.1
40°	319.9	297.2	263.1	246.1	247.9	247.9	212.0	183.6	174.1	172.2	176.0
42.5°	297.2	274.4	236.6	208.2	200.6	210.1	179.8	151.4	142.0	138.2	142.0
45°	282.0	257.4	213.9	181.7	159.0	170.3	147.6	124.9	113.6	113.6	111.7
47.5°	266.9	244.2	196.8	157.1	132.5	126.8	121.1	100.3	89.0	87.1	89.0
50°	253.6	230.9	177.9	136.3	111.7	98.4	98.4	79.5	71.9	68.1	70.0
52.5°	240.4	215.8	160.9	121.1	96.5	79.5	70.0	64.4	58.7	56.8	58.7
55°	221.4	196.8	143.8	104.1	83.3	66.2	54.9	53.0	49.2	45.4	49.2
57.5°	198.7	176.0	126.8	89.0	66.2	51.1	45.4	43.5	39.7	37.9	37.9
59°	185.5	164.7	117.3	77.6	58.7	45.4	41.6	39.7	36.0	32.2	34.1
60°	177.9	160.9	111.7	71.9	53.0	41.6	37.9	36.0	32.2	30.3	32.2
62.5°	157.1	143.8	98.4	58.7	41.6	30.3	26.5	28.4	26.5	24.6	26.5
65°	138.2	126.8	83.3	45.4	32.2	20.8	18.9	24.6	22.7	20.8	22.7
67.5°	123.0	109.8	70.0	34.1	22.7	11.4	13.2	20.8	20.8	18.9	20.8
70°	106.0	94.6	56.8	24.6	11.4	5.7	9.5	15.1	18.9	17.0	18.9
72.5°	87.1	73.8	43.5	17.0	5.7	0.0	5.7	13.2	18.9	17.0	18.9
75°	68.1	54.9	32.2	9.5	0.0	0.0	1.9	11.4	18.9	17.0	18.9
77.5°	49.2	39.7	18.9	1.9	0.0	0.0	1.9	11.4	18.9	17.0	18.9
80°	32.2	28.4	7.6	0.0	0.0	0.0	1.9	11.4	18.9	18.9	20.8
82.5°	20.8	15.1	0.0	0.0	0.0	0.0	3.8	15.1	20.8	22.7	22.7
85°	9.5	0.0	0.0	0.0	0.0	0.0	7.6	18.9	24.6	24.6	24.6
87.5°	0.0	0.0	0.0	0.0	0.0	3.8	13.2	22.7	28.4	28.4	28.4
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°	8229.5	8229.5	8229.5	8229.5	8229.5	8229.5	8229.5	8229.5	8229.5	8229.5	8229.5
2.5°	6768.3	6887.5	7056.0	7315.3	7525.4	7856.6	8110.2	8456.6	8806.7	8912.7	9077.4
5°	4981.6	5134.9	5517.2	5865.5	6085.0	6785.3	7228.2	7926.6	8553.1	8854.1	9181.5
7.5°	3459.9	3641.6	3933.0	4419.5	4881.3	5451.0	6166.4	6965.1	7883.1	8312.8	8774.6
10°	2428.3	2655.5	3066.2	3465.5	4046.6	4587.9	5293.9	6175.9	7188.5	7695.7	8274.9
12.5°	1533.1	1735.6	2278.8	2727.4	3452.3	4080.7	4731.8	5530.5	6704.0	7224.4	7832.0
15°	876.3	1046.7	1300.3	1875.7	2680.1	3511.0	4322.9	5250.4	6456.0	7097.6	7754.4
17.5°	653.0	698.4	812.0	1137.5	1870.0	2840.9	3946.3	5165.2	6624.5	7377.8	8127.3
20°	548.9	579.2	632.2	760.9	1192.4	2188.0	3579.1	5180.3	7169.6	8115.9	8827.6
22.5°	492.1	511.0	554.6	637.8	813.9	1593.7	3149.5	5269.3	7830.1	9022.5	9844.0
25°	431.5	456.1	494.0	565.9	677.6	1105.3	2725.5	5468.0	8755.6	10173.3	10945.5
27.5°	384.2	406.9	444.8	511.0	594.3	844.1	2231.5	5638.4	9732.3	11331.6	11963.8
30°	336.9	359.6	397.5	450.5	526.2	683.3	1699.6	5738.7	10680.5	12200.4	12686.8
32.5°	297.2	316.1	352.0	399.4	461.8	579.2	1340.0	5634.6	11405.4	12989.6	13315.2
35°	257.4	280.1	310.4	353.9	408.8	494.0	1114.8	5275.0	12028.1	13801.6	13918.9
37.5°	215.8	242.3	274.4	314.2	357.7	454.2	895.2	4877.5	12694.4	14814.2	14621.1
40°	181.7	206.3	236.6	280.1	319.9	416.4	688.9	4453.5	13413.6	15764.3	15387.7
42.5°	147.6	174.1	210.1	249.8	316.1	363.4	533.7	4014.4	14059.0	16591.4	16080.4
45°	117.3	140.1	177.9	229.0	314.2	312.3	412.6	3581.0	14545.4	17182.0	16597.1
47.5°	92.7	111.7	149.5	223.3	289.6	265.0	331.2	3312.2	15056.5	17713.8	16992.7
50°	73.8	92.7	128.7	232.8	253.6	227.1	278.2	3355.8	15550.5	17984.5	17155.5
52.5°	62.5	81.4	111.7	183.6	194.9	198.7	244.2	3556.4	16188.3	18274.1	17479.1
55°	54.9	71.9	94.6	128.7	151.4	177.9	223.3	3702.1	17041.9	18894.9	18192.7
57.5°	43.5	62.5	85.2	109.8	124.9	155.2	206.3	3713.5	17814.1	19691.7	19140.9
59°	39.7	56.8	79.5	104.1	111.7	140.1	194.9	3617.0	17842.5	19810.9	19576.2
60°	36.0	54.9	75.7	96.5	106.0	132.5	185.5	3505.3	17585.1	19621.7	19756.0
62.5°	30.3	47.3	66.2	77.6	90.8	109.8	160.9	3100.2	16337.8	18764.3	19422.9
65°	26.5	41.6	56.8	64.4	75.7	94.6	142.0	2481.3	14959.9	17602.1	18469.0
67.5°	24.6	37.9	49.2	54.9	66.2	87.1	126.8	1752.6	13175.1	16127.7	17036.2
70°	22.7	36.0	43.5	51.1	58.7	73.8	107.9	1022.1	10148.7	13542.3	14501.9
72.5°	22.7	34.1	37.9	43.5	51.1	66.2	100.3	552.7	6938.7	10330.4	11570.1
75°	22.7	32.2	34.1	37.9	45.4	60.6	89.0	289.6	4485.7	7177.1	8857.9
77.5°	22.7	30.3	34.1	36.0	43.5	53.0	77.6	181.7	2988.6	5027.0	5986.6
80°	24.6	30.3	32.2	36.0	41.6	49.2	64.4	121.1	1756.4	3024.5	3643.5
82.5°	26.5	30.3	34.1	37.9	43.5	47.3	56.8	75.7	810.1	2000.6	2263.7
85°	28.4	32.2	36.0	39.7	45.4	47.3	53.0	54.9	132.5	902.8	1220.8
87.5°	30.3	34.1	37.9	41.6	49.2	49.2	49.2	49.2	45.4	96.5	246.1
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-SA9A-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8229.5	8229.5	8229.5	8229.5	8229.5	8229.5	8229.5	8229.5	8229.5	8229.5
2.5°	9285.6	9499.5	9649.0	9686.9	9579.0	9529.8	9393.5	9181.5	9052.8	9047.1
5°	9785.3	10286.8	10635.1	10693.8	10485.6	10133.5	9715.2	9175.8	8859.7	8765.1
7.5°	9700.1	10578.3	11138.6	11219.9	10869.8	10197.9	9387.8	8519.1	8174.6	8028.8
10°	9350.0	10421.2	11221.8	11350.5	10883.0	9936.7	8907.1	7938.0	7510.2	7398.6
12.5°	9050.9	10133.5	10845.2	11023.1	10669.2	9724.7	8619.4	7565.1	7107.1	7003.0
15°	8920.3	9792.8	10228.2	10319.0	10260.3	9592.2	8589.1	7508.4	6984.1	6870.5
17.5°	9050.9	9503.3	9558.2	9650.9	9781.5	9579.0	8880.6	7816.9	7250.9	7110.9
20°	9393.5	9251.5	9024.4	9064.2	9363.2	9633.9	9399.2	8500.1	7811.2	7661.7
22.5°	9976.4	9189.1	8674.3	8640.2	9018.7	9817.5	10160.0	9425.7	8626.9	8479.3
25°	10691.9	9346.2	8545.6	8471.7	8884.4	10086.2	10987.1	10559.4	9686.9	9461.6
27.5°	11471.7	9671.7	8545.6	8473.6	8873.0	10324.7	11695.0	11562.5	10784.6	10538.6
30°	11899.4	9940.5	8668.6	8587.2	9013.1	10462.9	12073.6	12454.0	11609.8	11305.1
32.5°	12281.8	10313.3	8909.0	8755.6	9306.4	10667.3	12412.4	13211.1	12266.6	12062.2
35°	12633.8	10712.7	9240.2	9062.3	9692.5	10947.4	12787.1	14006.0	13180.8	12872.3
37.5°	13021.8	11176.4	9756.9	9605.5	10337.9	11492.5	13231.9	15050.8	14079.8	13691.8
40°	13443.9	11713.9	10606.7	10542.4	11363.8	12109.5	13794.0	16165.6	15105.7	14664.7
42.5°	13873.5	12332.9	11647.7	11753.7	12525.9	12974.5	14371.3	17023.0	15946.0	15459.6
45°	14263.4	13124.0	13001.0	13525.3	13881.1	13818.6	14799.0	17626.7	16678.5	16212.9
47.5°	14755.5	14276.7	14638.2	15446.4	15455.8	14736.6	15122.7	18120.7	17308.8	16843.2
50°	15306.3	15637.5	16752.3	17575.6	17354.2	15639.4	15501.2	18705.6	17959.9	17587.0
52.5°	15944.1	17161.1	18705.6	19619.8	19103.1	16623.6	16131.5	19337.8	18993.3	18635.6
55°	16686.1	18200.2	20653.2	21381.9	20861.4	17846.3	17089.2	20195.1	20161.1	19916.9
57.5°	17524.5	19298.0	21781.2	22767.3	22303.6	19281.0	18427.4	21003.3	20874.6	20738.4
59°	18187.0	19862.0	22279.0	23301.1	23021.0	20286.0	19326.4	21506.8	21039.3	20834.9
60°	18588.2	20244.4	22462.6	23373.0	23308.6	20884.1	19896.1	21752.8	21037.4	20753.5
62.5°	19778.8	20912.5	22392.6	23053.1	23304.9	22031.1	21567.4	22023.5	20647.5	20231.1
65°	20202.7	20691.0	21232.3	21151.0	21366.7	21972.4	22634.8	21726.3	19814.7	19222.3
67.5°	19377.5	18262.7	18453.9	17910.7	17804.7	19534.6	22201.4	20272.7	18185.1	17460.2
70°	16334.0	13990.9	13894.3	14144.2	13459.0	15815.4	19935.8	17473.4	15495.6	14674.1
72.5°	12857.1	9887.5	9073.6	9993.5	9972.7	12066.0	16561.2	12399.1	10468.5	10398.5
75°	10110.8	6883.8	6041.5	6191.0	6478.7	8734.8	13190.3	7873.6	6446.5	5875.0
77.5°	6787.2	4877.5	4550.1	4366.5	4676.9	5608.1	8344.9	4269.9	3615.1	3423.9
80°	3912.2	3543.1	4023.9	3652.9	3819.5	3533.7	4150.7	1958.9	1625.8	1760.2
82.5°	2545.7	2017.6	2150.1	1597.4	2184.2	2203.1	1332.5	579.2	490.2	520.5
85°	1591.8	946.4	531.8	378.5	753.3	1385.5	416.4	36.0	41.6	36.0
87.5°	412.6	157.1	66.2	98.4	121.1	107.9	96.5	5.7	1.9	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)