

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: P457773

Luminaire Tested: **GALN-SA9A-827-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457773
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-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 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: 21887 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

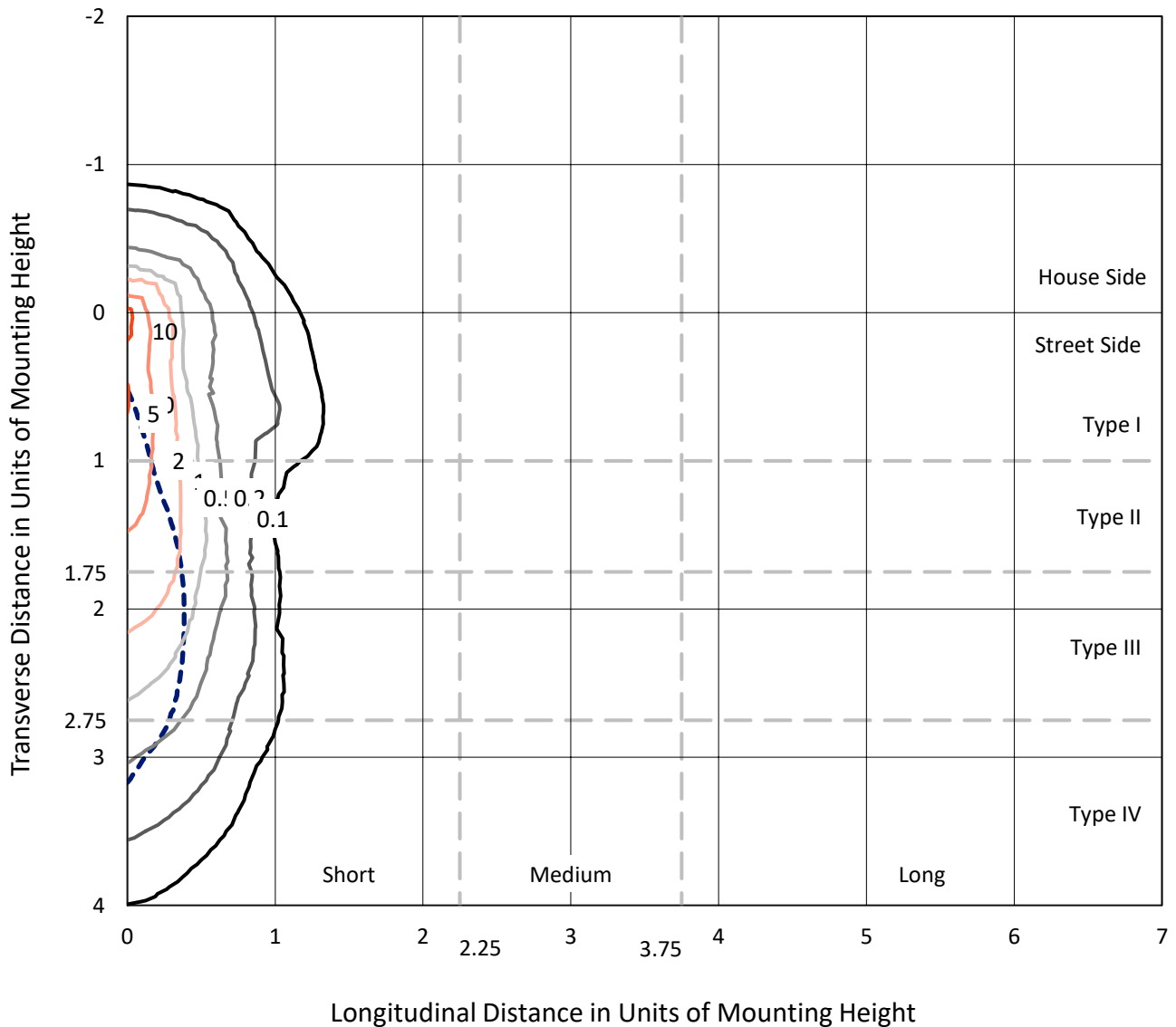
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

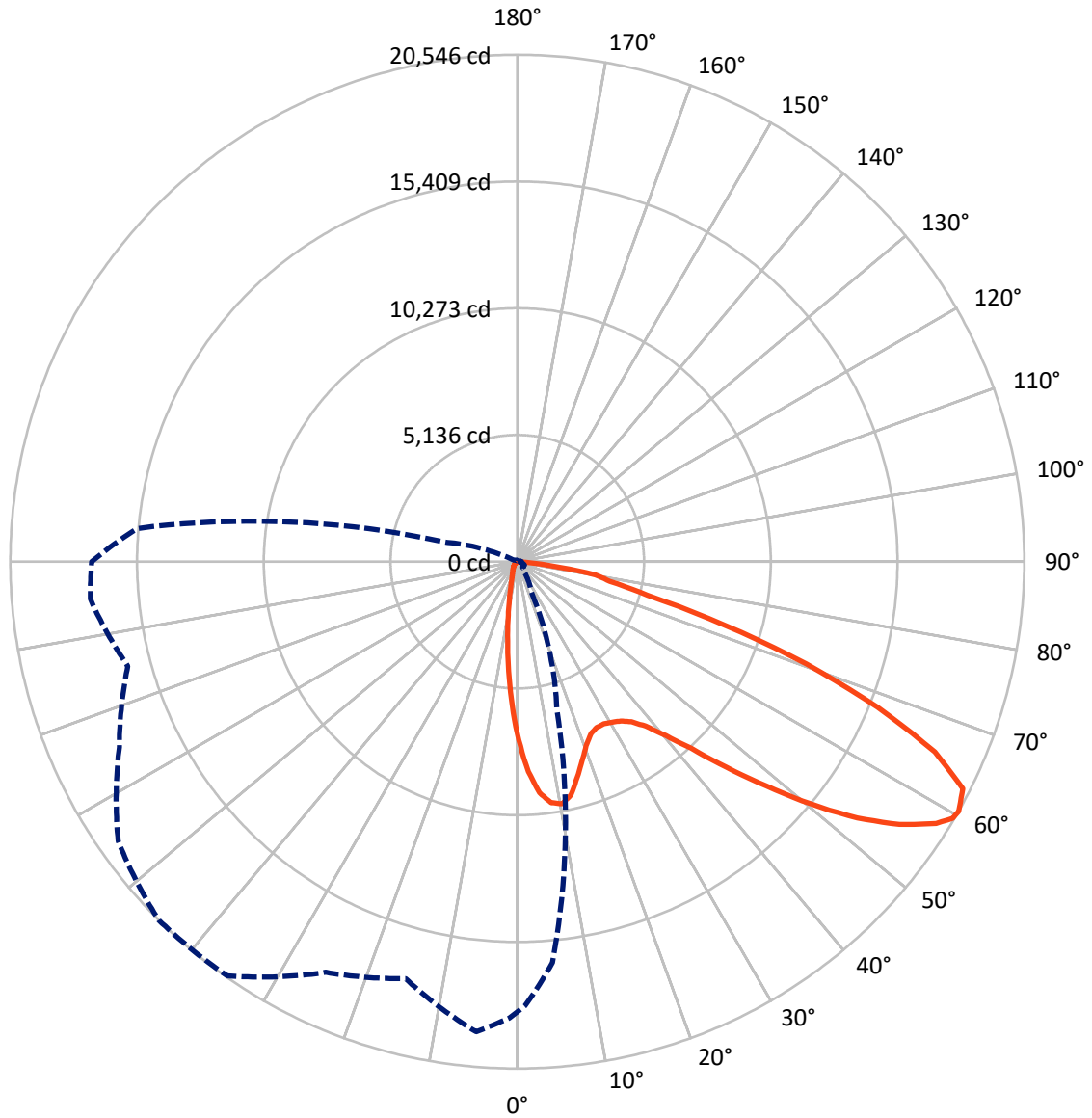
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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	2699.5	0.0	2699.5
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	19187.5	0.0	19187.5
	% Fixture	87.7	0.0	87.7
Total	Lumens	21887.0	0.0	21887.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	538.0	2.5
10°-20°	1068.5	4.9
20°-30°	1566.8	7.2
30°-40°	2330.1	10.6
40°-50°	3391.0	15.5
50°-60°	4890.1	22.3
60°-70°	5378.6	24.6
70°-80°	2409.2	11.0
80°-90°	314.8	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°	21887.0	100.0
0°-180°	21887.0	100.0

Coefficient of Utilization



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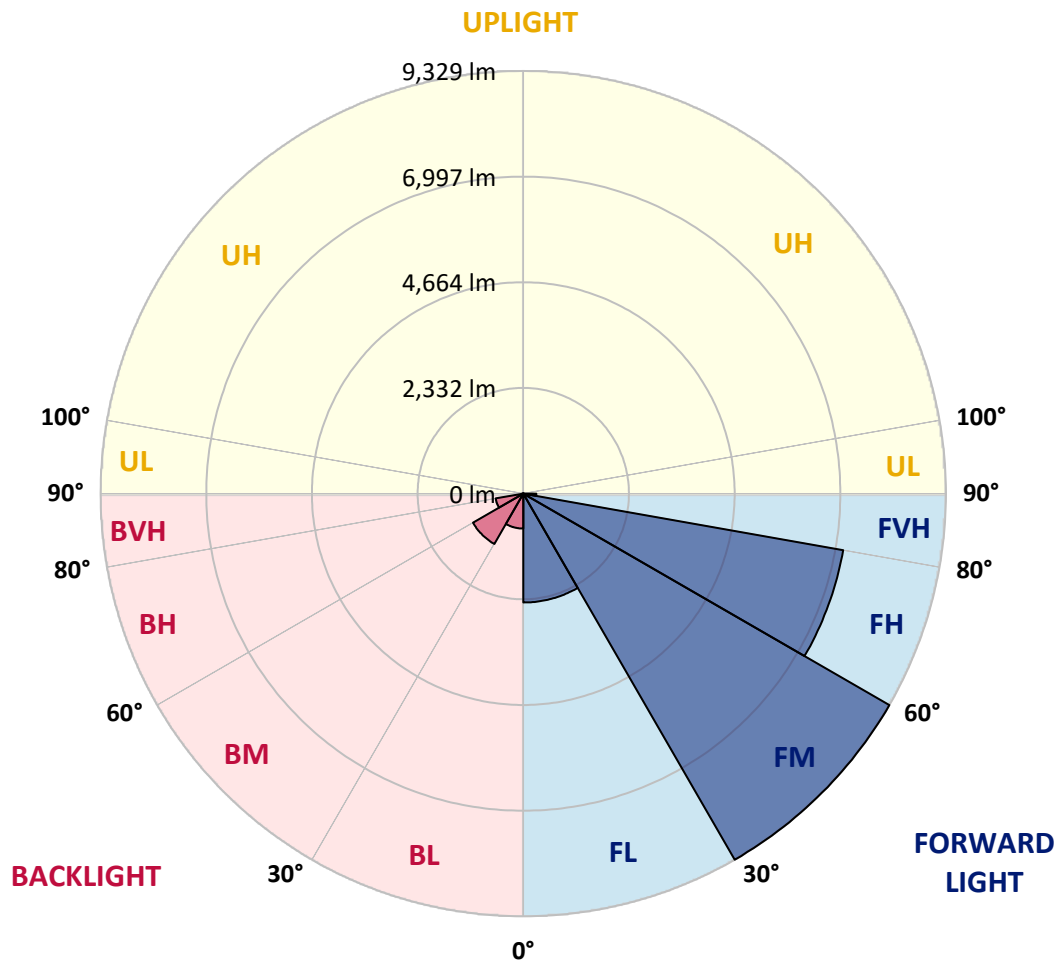
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2402.0	11.0			
FM (30°-60°)	9328.9	42.6			
FH (60°-80°)	7168.6	32.8			G3/7500
FVH (80°-90°)	287.9	1.3			G3/500
BL (0°-30°)	771.3	3.5	B2/1000		
BM (30°-60°)	1282.2	5.9	B2/2500		
BH (60°-80°)	619.1	2.8	B2/1000		G2/1000
BVH (80°-90°)	26.9	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°	7234.0	7234.0	7234.0	7234.0	7234.0	7234.0	7234.0	7234.0	7234.0	7234.0	7234.0
2.5°	7952.7	7917.8	7837.9	7595.0	7383.7	7107.5	6828.0	6608.4	6473.6	6225.7	6112.6
5°	7704.8	7721.4	7490.2	6991.1	6435.4	6056.0	5641.8	5312.3	4949.6	4720.0	4478.8
7.5°	7057.6	7024.3	6773.1	6077.7	5402.2	4853.1	4329.1	3903.1	3635.3	3420.7	3241.0
10°	6503.6	6478.6	6157.5	5262.4	4537.0	4126.1	3771.7	3399.0	3111.2	2796.8	2545.5
12.5°	6155.9	6099.3	5729.9	4794.9	4204.3	3821.6	3435.6	3048.0	2650.3	2332.6	2028.1
15°	6039.4	5957.9	5546.9	4633.5	3991.3	3505.5	3021.4	2575.5	2117.9	1766.9	1537.3
17.5°	6250.7	6115.9	5678.4	4605.2	3736.8	3092.9	2497.3	1916.6	1440.8	1172.9	1031.5
20°	6734.8	6580.1	6011.1	4577.0	3453.9	2630.4	1898.3	1354.3	996.6	850.2	772.0
22.5°	7453.6	7240.6	6503.6	4621.9	3192.7	2179.5	1370.9	956.7	791.9	700.4	645.5
25°	8317.1	8139.0	7127.5	4781.6	2986.4	1825.1	1059.8	782.0	667.2	610.6	569.0
27.5°	9263.7	8979.2	7934.4	4972.9	2798.4	1550.6	930.0	698.8	594.0	542.4	520.8
30°	9937.6	9716.3	8609.9	5106.0	2563.8	1344.3	850.2	688.8	595.6	534.1	494.1
32.5°	10603.1	10320.2	9175.6	5167.6	2392.5	1201.2	735.4	600.6	522.4	490.8	450.9
35°	11315.1	11019.0	9739.6	5134.3	2264.4	1106.4	667.2	535.7	447.5	394.3	354.4
37.5°	12035.5	11722.8	10300.2	5014.5	2184.5	1068.1	613.9	509.1	422.6	367.7	324.4
40°	12890.7	12473.1	10826.0	4916.4	2101.3	1048.2	579.0	492.5	404.3	346.1	302.8
42.5°	13589.5	13191.8	11323.5	4864.8	2044.7	1001.6	579.0	479.2	392.6	327.8	282.8
45°	14251.6	13839.0	11860.8	4906.4	2021.5	943.3	585.6	477.5	384.3	314.4	269.5
47.5°	14805.7	14448.0	12413.2	5062.8	1991.5	880.1	550.7	500.8	379.3	302.8	256.2
50°	15459.5	15113.5	13143.6	5378.9	1938.3	816.9	507.4	539.1	377.7	292.8	244.6
52.5°	16381.2	16006.9	14151.8	5738.3	1853.4	720.4	467.5	534.1	371.0	276.2	232.9
55°	17507.6	17204.8	15319.8	6169.2	1737.0	612.3	404.3	474.2	351.1	247.9	213.0
57.5°	18229.7	17971.8	16194.9	6355.5	1558.9	500.8	356.0	397.6	321.1	221.3	189.7
59°	18314.5	18081.6	16377.9	6294.0	1442.5	457.5	332.7	341.1	312.8	206.3	176.4
60°	18243.0	18001.7	16304.7	6174.2	1334.3	427.6	312.8	302.8	314.4	198.0	166.4
62.5°	17783.8	17371.2	15594.3	5566.9	1166.3	392.6	277.8	247.9	277.8	178.0	148.1
65°	16897.0	16278.1	14188.4	4711.7	1099.7	372.7	236.3	208.0	211.3	156.4	128.1
67.5°	15348.1	14567.8	12316.7	3828.3	1071.5	374.3	199.6	186.3	163.0	133.1	113.1
70°	12899.0	12120.4	9882.6	3149.5	1058.1	374.3	169.7	159.7	136.4	111.5	98.2
72.5°	9140.6	8302.1	6666.6	2474.0	953.3	372.7	144.7	144.7	111.5	93.2	79.9
75°	5164.3	5170.9	4191.0	1750.3	791.9	307.8	116.5	114.8	81.5	71.5	59.9
77.5°	3009.7	2956.5	2825.0	752.0	367.7	139.8	81.5	69.9	56.6	51.6	43.3
80°	1547.3	1272.8	1239.5	272.9	131.4	88.2	56.6	39.9	36.6	33.3	29.9
82.5°	457.5	459.2	409.3	109.8	73.2	58.2	28.3	21.6	20.0	18.3	18.3
85°	31.6	20.0	23.3	33.3	44.9	23.3	1.7	5.0	5.0	6.7	8.3
87.5°	3.3	1.7	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°	7234.0	7234.0	7234.0	7234.0	7234.0	7234.0	7234.0	7234.0	7234.0	7234.0	7234.0
2.5°	5987.8	6061.0	5924.6	5927.9	5814.8	5851.4	5718.3	5761.6	5683.4	5743.3	5919.6
5°	4505.4	4522.1	4412.3	4377.3	4394.0	4462.2	4488.8	4367.3	4418.9	4317.4	4310.8
7.5°	3174.4	3194.4	3131.2	3122.9	3242.6	3214.4	3265.9	3141.2	3023.0	3074.6	2979.8
10°	2465.7	2382.5	2252.7	2216.1	2192.8	2207.8	2207.8	2094.7	2078.0	2033.1	2101.3
12.5°	1946.6	1845.1	1722.0	1555.6	1514.0	1510.7	1449.1	1349.3	1317.7	1279.4	1336.0
15°	1414.2	1372.6	1269.4	1176.3	1081.4	1063.1	963.3	881.8	773.6	758.7	753.7
17.5°	994.9	933.4	931.7	878.5	823.6	787.0	693.8	600.6	559.0	554.0	554.0
20°	745.4	723.7	688.8	682.1	665.5	623.9	540.7	490.8	470.8	472.5	479.2
22.5°	627.2	612.3	580.6	565.7	559.0	522.4	460.9	427.6	417.6	417.6	419.3
25°	560.7	547.4	512.4	489.1	480.8	454.2	406.0	381.0	372.7	372.7	372.7
27.5°	510.8	494.1	457.5	437.6	422.6	392.6	362.7	337.7	329.4	329.4	331.1
30°	475.8	457.5	424.3	397.6	374.3	347.7	322.8	301.1	291.2	289.5	291.2
32.5°	429.2	412.6	379.3	362.7	336.1	304.5	284.5	264.5	254.6	256.2	254.6
35°	334.4	329.4	306.1	311.1	296.1	269.5	251.2	229.6	218.0	216.3	219.6
37.5°	304.5	284.5	257.9	259.5	254.6	244.6	214.6	191.3	183.0	183.0	184.7
40°	281.2	261.2	231.3	216.3	218.0	218.0	186.3	161.4	153.1	151.4	154.7
42.5°	261.2	241.2	208.0	183.0	176.4	184.7	158.1	133.1	124.8	121.5	124.8
45°	247.9	226.3	188.0	159.7	139.8	149.7	129.8	109.8	99.8	99.8	98.2
47.5°	234.6	214.6	173.0	138.1	116.5	111.5	106.5	88.2	78.2	76.5	78.2
50°	222.9	203.0	156.4	119.8	98.2	86.5	86.5	69.9	63.2	59.9	61.6
52.5°	211.3	189.7	141.4	106.5	84.9	69.9	61.6	56.6	51.6	49.9	51.6
55°	194.7	173.0	126.4	91.5	73.2	58.2	48.2	46.6	43.3	39.9	43.3
57.5°	174.7	154.7	111.5	78.2	58.2	44.9	39.9	38.3	34.9	33.3	33.3
59°	163.0	144.7	103.2	68.2	51.6	39.9	36.6	34.9	31.6	28.3	29.9
60°	156.4	141.4	98.2	63.2	46.6	36.6	33.3	31.6	28.3	26.6	28.3
62.5°	138.1	126.4	86.5	51.6	36.6	26.6	23.3	25.0	23.3	21.6	23.3
65°	121.5	111.5	73.2	39.9	28.3	18.3	16.6	21.6	20.0	18.3	20.0
67.5°	108.1	96.5	61.6	29.9	20.0	10.0	11.6	18.3	18.3	16.6	18.3
70°	93.2	83.2	49.9	21.6	10.0	5.0	8.3	13.3	16.6	15.0	16.6
72.5°	76.5	64.9	38.3	15.0	5.0	0.0	5.0	11.6	16.6	15.0	16.6
75°	59.9	48.2	28.3	8.3	0.0	0.0	1.7	10.0	16.6	15.0	16.6
77.5°	43.3	34.9	16.6	1.7	0.0	0.0	1.7	10.0	16.6	15.0	16.6
80°	28.3	25.0	6.7	0.0	0.0	0.0	1.7	10.0	16.6	16.6	18.3
82.5°	18.3	13.3	0.0	0.0	0.0	0.0	3.3	13.3	18.3	20.0	20.0
85°	8.3	0.0	0.0	0.0	0.0	0.0	6.7	16.6	21.6	21.6	21.6
87.5°	0.0	0.0	0.0	0.0	0.0	3.3	11.6	20.0	25.0	25.0	25.0
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°	7234.0	7234.0	7234.0	7234.0	7234.0	7234.0	7234.0	7234.0	7234.0	7234.0	7234.0
2.5°	5949.6	6054.4	6202.4	6430.4	6615.1	6906.2	7129.2	7433.6	7741.4	7834.6	7979.3
5°	4379.0	4513.7	4849.8	5155.9	5348.9	5964.5	6353.8	6967.8	7518.5	7783.0	8070.8
7.5°	3041.3	3201.0	3457.3	3884.8	4290.8	4791.6	5420.5	6122.6	6929.5	7307.2	7713.1
10°	2134.6	2334.2	2695.3	3046.3	3557.1	4032.9	4653.5	5428.8	6318.9	6764.8	7273.9
12.5°	1347.6	1525.7	2003.1	2397.5	3034.7	3587.0	4159.4	4861.5	5893.0	6350.5	6884.6
15°	770.3	920.1	1143.0	1648.8	2355.9	3086.2	3800.0	4615.2	5675.0	6239.0	6816.4
17.5°	574.0	613.9	713.7	999.9	1643.8	2497.3	3468.9	4540.4	5823.1	6485.3	7144.1
20°	482.5	509.1	555.7	668.8	1048.2	1923.3	3146.1	4553.7	6302.3	7134.1	7759.7
22.5°	432.6	449.2	487.5	560.7	715.4	1400.9	2768.5	4631.9	6882.9	7931.1	8653.1
25°	379.3	401.0	434.2	497.5	595.6	971.6	2395.8	4806.6	7696.5	8942.6	9621.4
27.5°	337.7	357.7	391.0	449.2	522.4	742.0	1961.6	4956.3	8555.0	9960.8	10516.5
30°	296.1	316.1	349.4	396.0	462.5	600.6	1494.0	5044.5	9388.5	10724.5	11152.1
32.5°	261.2	277.8	309.5	351.1	406.0	509.1	1177.9	4953.0	10025.7	11418.3	11704.5
35°	226.3	246.2	272.9	311.1	359.4	434.2	979.9	4636.9	10573.1	12132.0	12235.2
37.5°	189.7	213.0	241.2	276.2	314.4	399.3	787.0	4287.5	11158.7	13022.1	12852.4
40°	159.7	181.3	208.0	246.2	281.2	366.0	605.6	3914.8	11791.0	13857.3	13526.3
42.5°	129.8	153.1	184.7	219.6	277.8	319.4	469.2	3528.8	12358.3	14584.4	14135.2
45°	103.2	123.1	156.4	201.3	276.2	274.5	362.7	3147.8	12785.9	15103.5	14589.4
47.5°	81.5	98.2	131.4	196.3	254.6	232.9	291.2	2911.6	13235.1	15571.0	14937.1
50°	64.9	81.5	113.1	204.6	222.9	199.6	244.6	2949.8	13669.3	15808.9	15080.2
52.5°	54.9	71.5	98.2	161.4	171.4	174.7	214.6	3126.2	14230.0	16063.5	15364.7
55°	48.2	63.2	83.2	113.1	133.1	156.4	196.3	3254.3	14980.4	16609.2	15991.9
57.5°	38.3	54.9	74.9	96.5	109.8	136.4	181.3	3264.3	15659.2	17309.6	16825.5
59°	34.9	49.9	69.9	91.5	98.2	123.1	171.4	3179.4	15684.1	17414.4	17208.1
60°	31.6	48.2	66.5	84.9	93.2	116.5	163.0	3081.3	15457.9	17248.1	17366.2
62.5°	26.6	41.6	58.2	68.2	79.9	96.5	141.4	2725.2	14361.5	16494.4	17073.4
65°	23.3	36.6	49.9	56.6	66.5	83.2	124.8	2181.2	13150.2	15472.8	16234.8
67.5°	21.6	33.3	43.3	48.2	58.2	76.5	111.5	1540.6	11581.3	14176.8	14975.4
70°	20.0	31.6	38.3	44.9	51.6	64.9	94.8	898.4	8921.0	11904.1	12747.6
72.5°	20.0	29.9	33.3	38.3	44.9	58.2	88.2	485.8	6099.3	9080.7	10170.5
75°	20.0	28.3	29.9	33.3	39.9	53.2	78.2	254.6	3943.1	6308.9	7786.3
77.5°	20.0	26.6	29.9	31.6	38.3	46.6	68.2	159.7	2627.1	4418.9	5262.4
80°	21.6	26.6	28.3	31.6	36.6	43.3	56.6	106.5	1544.0	2658.7	3202.7
82.5°	23.3	26.6	29.9	33.3	38.3	41.6	49.9	66.5	712.1	1758.6	1989.8
85°	25.0	28.3	31.6	34.9	39.9	41.6	46.6	48.2	116.5	793.6	1073.1
87.5°	26.6	29.9	33.3	36.6	43.3	43.3	43.3	43.3	39.9	84.9	216.3
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-SA9A-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7234.0	7234.0	7234.0	7234.0	7234.0	7234.0	7234.0	7234.0	7234.0	7234.0
2.5°	8162.3	8350.3	8481.8	8515.1	8420.2	8377.0	8257.2	8070.8	7957.7	7952.7
5°	8601.6	9042.5	9348.6	9400.2	9217.2	8907.7	8540.0	8065.8	7788.0	7704.8
7.5°	8526.7	9298.7	9791.1	9862.7	9554.9	8964.3	8252.2	7488.5	7185.7	7057.6
10°	8218.9	9160.6	9864.3	9977.5	9566.5	8734.7	7829.6	6977.7	6601.7	6503.6
12.5°	7956.0	8907.7	9533.3	9689.7	9378.5	8548.3	7576.7	6650.0	6247.4	6155.9
15°	7841.2	8608.2	8990.9	9070.7	9019.2	8431.9	7550.1	6600.1	6139.2	6039.4
17.5°	7956.0	8353.7	8401.9	8483.4	8598.2	8420.2	7806.3	6871.3	6373.8	6250.7
20°	8257.2	8132.4	7932.7	7967.7	8230.6	8468.5	8262.2	7471.9	6866.3	6734.8
22.5°	8769.6	8077.5	7624.9	7595.0	7927.7	8629.8	8931.0	8285.5	7583.4	7453.6
25°	9398.5	8215.6	7511.8	7446.9	7809.6	8866.1	9658.0	9282.0	8515.1	8317.1
27.5°	10084.0	8501.7	7511.8	7448.6	7799.6	9075.7	10280.3	10163.8	9480.0	9263.7
30°	10460.0	8738.0	7620.0	7548.4	7922.8	9197.2	10613.0	10947.4	10205.4	9937.6
32.5°	10796.0	9065.8	7831.3	7696.5	8180.6	9376.9	10910.8	11612.9	10782.7	10603.1
35°	11105.5	9416.8	8122.4	7966.0	8520.0	9623.1	11240.3	12311.7	11586.3	11315.1
37.5°	11446.6	9824.4	8576.6	8443.5	9087.4	10102.3	11631.2	13230.1	12376.6	12035.5
40°	11817.6	10296.9	9323.6	9267.1	9989.1	10644.6	12125.4	14210.1	13278.4	12890.7
42.5°	12195.3	10841.0	10238.7	10331.9	11010.7	11405.0	12632.8	14963.7	14017.1	13589.5
45°	12538.0	11536.4	11428.3	11889.1	12201.9	12147.0	13008.8	15494.5	14660.9	14251.6
47.5°	12970.6	12549.6	12867.4	13577.8	13586.1	12953.9	13293.3	15928.7	15215.0	14805.7
50°	13454.7	13745.9	14725.8	15449.5	15254.9	13747.5	13626.1	16442.8	15787.3	15459.5
52.5°	14015.4	15085.2	16442.8	17246.4	16792.2	14612.7	14180.1	16998.5	16695.7	16381.2
55°	14667.6	15998.6	18154.8	18795.3	18337.8	15687.5	15022.0	17752.2	17722.2	17507.6
57.5°	15404.6	16963.6	19146.4	20013.2	19605.6	16948.6	16198.2	18462.6	18349.5	18229.7
59°	15986.9	17459.3	19584.0	20482.4	20236.1	17832.0	16988.5	18905.1	18494.2	18314.5
60°	16339.6	17795.4	19745.3	20545.6	20489.0	18357.8	17489.3	19121.4	18492.5	18243.0
62.5°	17386.1	18382.7	19683.8	20264.4	20485.7	19366.0	18958.4	19359.3	18149.8	17783.8
65°	17758.8	18188.1	18663.9	18592.4	18782.0	19314.4	19896.7	19098.1	17417.8	16897.0
67.5°	17033.4	16053.5	16221.5	15744.0	15650.9	17171.5	19515.7	17820.4	15985.3	15348.1
70°	14358.1	12298.4	12213.6	12433.2	11830.9	13902.3	17524.2	15359.7	13621.1	12899.0
72.5°	11301.8	8691.4	7976.0	8784.6	8766.3	10606.4	14557.8	10899.2	9202.2	9140.6
75°	8887.7	6051.0	5310.7	5442.1	5695.0	7678.2	11594.6	6921.2	5666.7	5164.3
77.5°	5966.2	4287.5	3999.6	3838.3	4111.1	4929.7	7335.5	3753.4	3177.8	3009.7
80°	3439.0	3114.5	3537.1	3211.0	3357.4	3106.2	3648.6	1722.0	1429.2	1547.3
82.5°	2237.7	1773.6	1890.0	1404.2	1920.0	1936.6	1171.3	509.1	430.9	457.5
85°	1399.2	831.9	467.5	332.7	662.2	1217.9	366.0	31.6	36.6	31.6
87.5°	362.7	138.1	58.2	86.5	106.5	94.8	84.9	5.0	1.7	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)