

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: P456758

Luminaire Tested: **GALN-SA8A-740-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456758
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-SA8A-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 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: 26520 lumens
Efficiency: N/A
Efficacy: 108.7 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

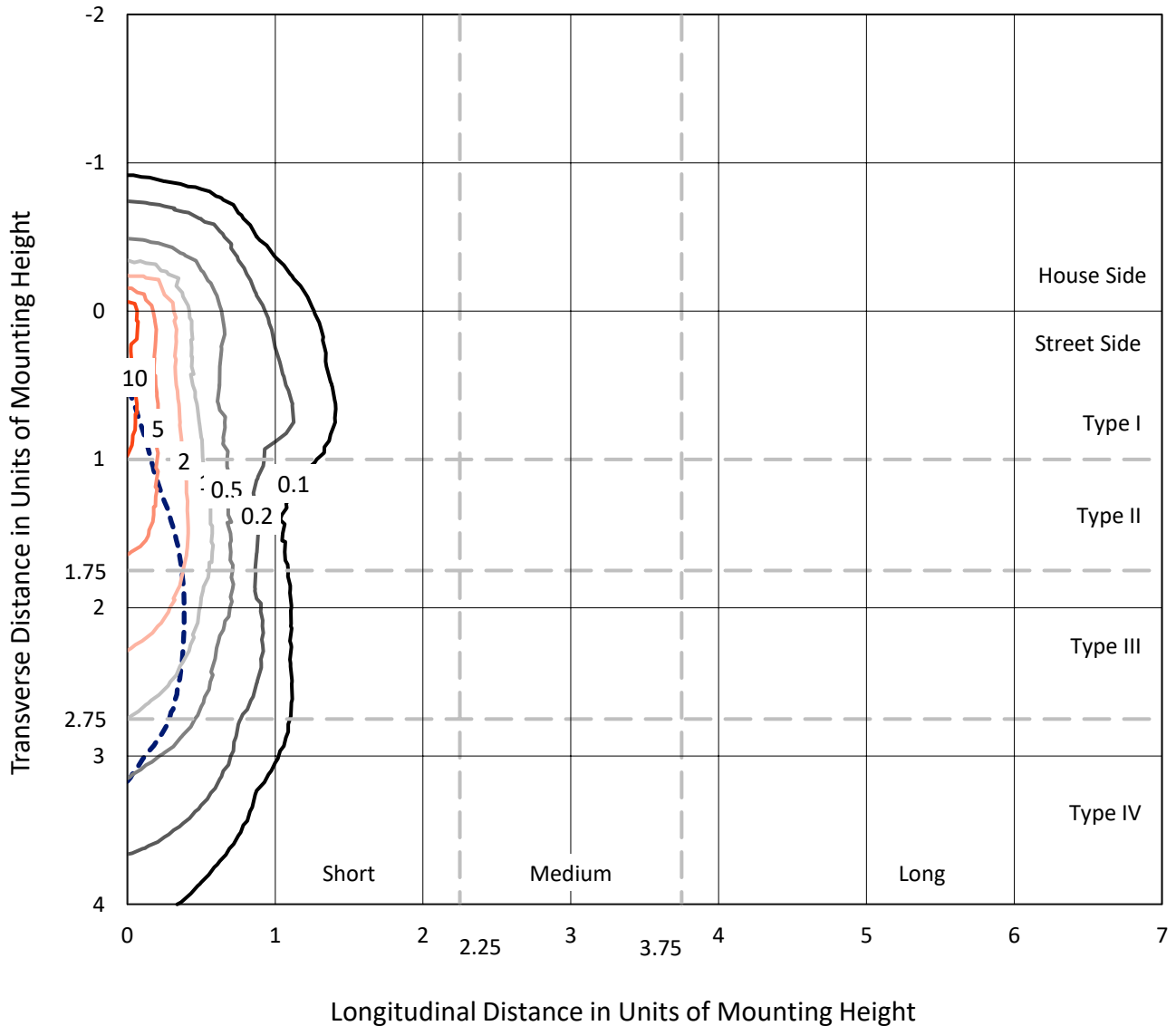
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

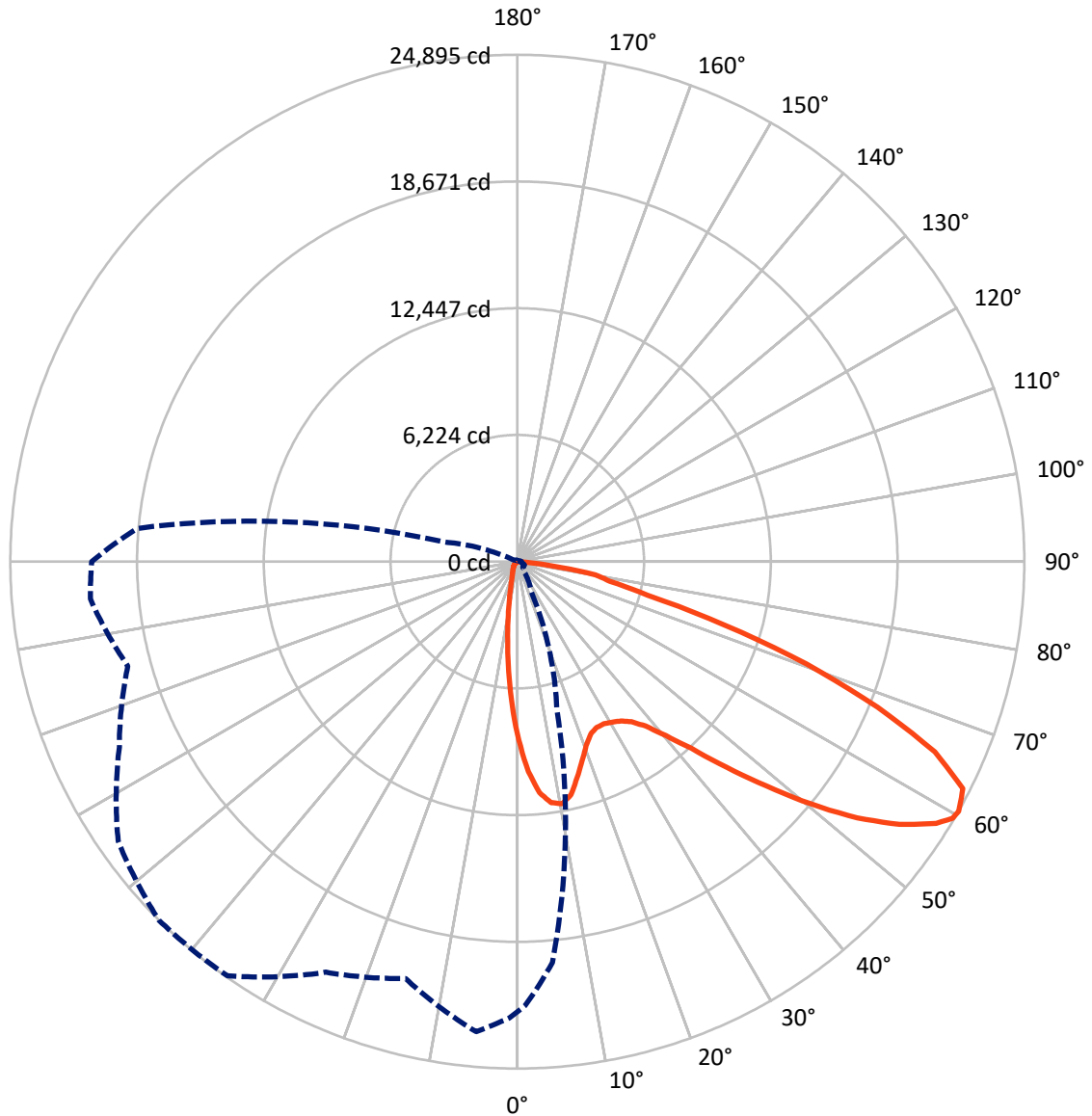
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 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	3271.0	0.0	3271.0
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	23249.0	0.0	23249.0
	% Fixture	87.7	0.0	87.7
Total	Lumens	26520.0	0.0	26520.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	651.9	2.5
10°-20°	1294.7	4.9
20°-30°	1898.4	7.2
30°-40°	2823.3	10.6
40°-50°	4108.8	15.5
50°-60°	5925.2	22.3
60°-70°	6517.1	24.6
70°-80°	2919.1	11.0
80°-90°	381.4	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°	26520.0	100.0
0°-180°	26520.0	100.0

Coefficient of Utilization



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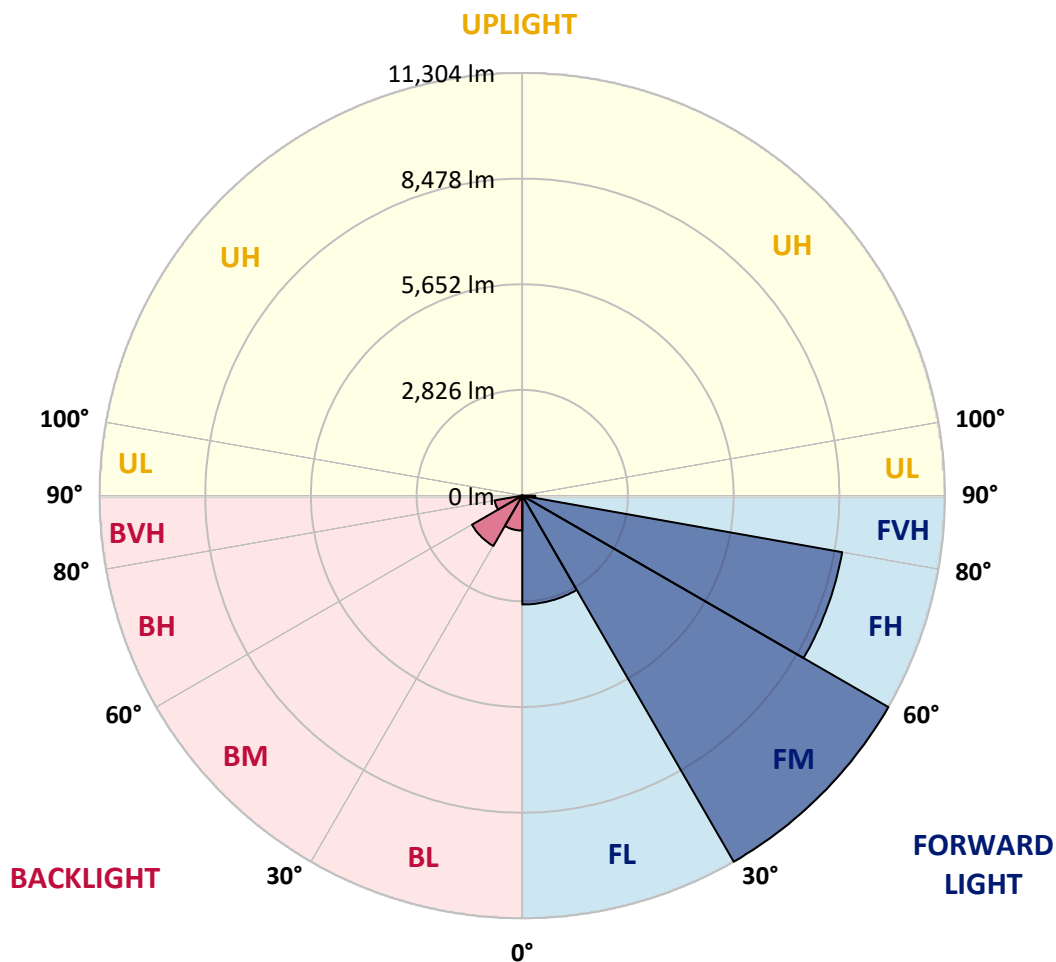
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2910.5	11.0			
FM	(30°-60°)	11303.6	42.6			
FH	(60°-80°)	8686.1	32.8			G4/12000
FVH	(80°-90°)	348.8	1.3			G3/500
BL	(0°-30°)	934.6	3.5	B2/1000		
BM	(30°-60°)	1553.6	5.9	B2/2500		
BH	(60°-80°)	750.1	2.8	B2/1000		G2/1000
BVH	(80°-90°)	32.6	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°	8765.2	8765.2	8765.2	8765.2	8765.2	8765.2	8765.2	8765.2	8765.2	8765.2	8765.2
2.5°	9636.1	9593.8	9497.0	9202.7	8946.7	8612.0	8273.4	8007.3	7844.0	7543.6	7406.5
5°	9335.7	9355.9	9075.7	8470.9	7797.6	7338.0	6836.0	6436.8	5997.4	5719.2	5426.9
7.5°	8551.6	8511.2	8206.8	7364.2	6545.7	5880.5	5245.4	4729.4	4404.8	4144.7	3927.0
10°	7880.2	7850.0	7460.9	6376.4	5497.4	4999.5	4570.1	4118.5	3769.8	3388.8	3084.4
12.5°	7458.9	7390.4	6942.8	5809.9	5094.2	4630.6	4162.9	3693.2	3211.4	2826.3	2457.4
15°	7317.8	7219.0	6721.1	5614.3	4836.2	4247.6	3660.9	3120.7	2566.3	2140.9	1862.7
17.5°	7573.8	7410.5	6880.3	5580.1	4527.8	3747.6	3025.9	2322.3	1745.8	1421.2	1249.9
20°	8160.5	7973.0	7283.5	5545.8	4185.1	3187.2	2300.2	1641.0	1207.5	1030.1	935.4
22.5°	9031.3	8773.3	7880.2	5600.2	3868.6	2640.9	1661.1	1159.2	959.6	848.7	782.2
25°	10077.6	9861.9	8636.2	5793.8	3618.6	2211.5	1284.1	947.5	808.4	739.8	689.4
27.5°	11224.7	10879.9	9613.9	6025.6	3390.8	1878.8	1126.9	846.7	719.7	657.2	631.0
30°	12041.1	11773.0	10432.4	6186.9	3106.5	1628.9	1030.1	834.6	721.7	647.1	598.7
32.5°	12847.5	12504.8	11117.8	6261.5	2898.9	1455.5	891.0	727.7	633.0	594.7	546.3
35°	13710.3	13351.5	11801.2	6221.1	2743.7	1340.6	808.4	649.1	542.3	477.8	429.4
37.5°	14583.2	14204.2	12480.6	6076.0	2646.9	1294.2	743.9	616.9	512.0	445.5	393.1
40°	15619.4	15113.4	13117.6	5957.1	2546.1	1270.0	701.5	596.7	489.9	419.3	366.9
42.5°	16466.1	15984.3	13720.4	5894.6	2477.6	1213.6	701.5	580.6	475.8	397.1	342.7
45°	17268.4	16768.5	14371.5	5945.0	2449.3	1143.0	709.6	578.6	465.7	381.0	326.6
47.5°	17939.7	17506.3	15040.8	6134.5	2413.1	1066.4	667.3	606.8	459.6	366.9	310.5
50°	18732.0	18312.7	15925.8	6517.5	2348.6	989.8	614.9	653.2	457.6	354.8	296.3
52.5°	19848.8	19395.2	17147.5	6952.9	2245.7	872.9	566.5	647.1	449.6	334.6	282.2
55°	21213.6	20846.7	18562.6	7475.0	2104.6	741.9	489.9	574.5	425.4	300.4	258.0
57.5°	22088.5	21776.0	19623.0	7700.8	1888.9	606.8	431.4	481.8	389.1	268.1	229.8
59°	22191.3	21909.1	19844.8	7626.2	1747.8	554.4	403.2	413.3	379.0	250.0	213.7
60°	22104.6	21812.3	19756.1	7481.1	1616.8	518.1	379.0	366.9	381.0	239.9	201.6
62.5°	21548.2	21048.3	18895.3	6745.3	1413.2	475.8	336.7	300.4	336.7	215.7	179.4
65°	20473.7	19723.8	17191.8	5709.1	1332.5	451.6	286.3	252.0	256.0	189.5	155.2
67.5°	18596.9	17651.4	14923.9	4638.6	1298.3	453.6	241.9	225.8	197.6	161.3	137.1
70°	15629.5	14686.0	11974.6	3816.1	1282.1	453.6	205.6	193.5	165.3	135.1	118.9
72.5°	11075.5	10059.5	8077.8	2997.7	1155.1	451.6	175.4	175.4	135.1	112.9	96.8
75°	6257.4	6265.5	5078.1	2120.8	959.6	372.9	141.1	139.1	98.8	86.7	72.6
77.5°	3646.8	3582.3	3423.0	911.2	445.5	169.3	98.8	84.7	68.5	62.5	52.4
80°	1874.8	1542.2	1501.9	330.6	159.3	106.8	68.5	48.4	44.4	40.3	36.3
82.5°	554.4	556.4	495.9	133.1	88.7	70.6	34.3	26.2	24.2	22.2	22.2
85°	38.3	24.2	28.2	40.3	54.4	28.2	2.0	6.0	6.0	8.1	10.1
87.5°	4.0	2.0	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°	8765.2	8765.2	8765.2	8765.2	8765.2	8765.2	8765.2	8765.2	8765.2	8765.2	8765.2
2.5°	7255.3	7344.0	7178.7	7182.7	7045.7	7090.0	6928.7	6981.1	6886.4	6959.0	7172.7
5°	5459.1	5479.3	5346.2	5303.9	5324.1	5406.7	5439.0	5291.8	5354.3	5231.3	5223.3
7.5°	3846.4	3870.6	3794.0	3783.9	3929.0	3894.8	3957.3	3806.1	3662.9	3725.4	3610.5
10°	2987.6	2886.8	2729.6	2685.2	2657.0	2675.1	2675.1	2538.0	2517.9	2463.5	2546.1
12.5°	2358.6	2235.7	2086.5	1884.9	1834.5	1830.5	1755.9	1634.9	1596.6	1550.2	1618.8
15°	1713.5	1663.1	1538.2	1425.3	1310.4	1288.2	1167.2	1068.4	937.4	919.3	913.2
17.5°	1205.5	1130.9	1128.9	1064.4	997.9	953.5	840.6	727.7	677.4	671.3	671.3
20°	903.1	876.9	834.6	826.5	806.4	756.0	655.2	594.7	570.5	572.5	580.6
22.5°	760.0	741.9	703.6	685.4	677.4	633.0	558.4	518.1	506.0	506.0	508.0
25°	679.4	663.2	620.9	592.7	582.6	550.3	491.9	461.6	451.6	451.6	451.6
27.5°	618.9	598.7	554.4	530.2	512.0	475.8	439.5	409.2	399.2	399.2	401.2
30°	576.6	554.4	514.1	481.8	453.6	421.3	391.1	364.9	352.8	350.8	352.8
32.5°	520.1	499.9	459.6	439.5	407.2	368.9	344.7	320.5	308.4	310.5	308.4
35°	405.2	399.2	370.9	377.0	358.8	326.6	304.4	278.2	264.1	262.1	266.1
37.5°	368.9	344.7	312.5	314.5	308.4	296.3	260.1	231.8	221.8	221.8	223.8
40°	340.7	316.5	280.2	262.1	264.1	264.1	225.8	195.5	185.5	183.4	187.5
42.5°	316.5	292.3	252.0	221.8	213.7	223.8	191.5	161.3	151.2	147.2	151.2
45°	300.4	274.2	227.8	193.5	169.3	181.4	157.2	133.1	121.0	121.0	118.9
47.5°	284.2	260.1	209.7	167.3	141.1	135.1	129.0	106.8	94.7	92.7	94.7
50°	270.1	245.9	189.5	145.1	118.9	104.8	104.8	84.7	76.6	72.6	74.6
52.5°	256.0	229.8	171.4	129.0	102.8	84.7	74.6	68.5	62.5	60.5	62.5
55°	235.9	209.7	153.2	110.9	88.7	70.6	58.5	56.4	52.4	48.4	52.4
57.5°	211.7	187.5	135.1	94.7	70.6	54.4	48.4	46.4	42.3	40.3	40.3
59°	197.6	175.4	125.0	82.7	62.5	48.4	44.4	42.3	38.3	34.3	36.3
60°	189.5	171.4	118.9	76.6	56.4	44.4	40.3	38.3	34.3	32.3	34.3
62.5°	167.3	153.2	104.8	62.5	44.4	32.3	28.2	30.2	28.2	26.2	28.2
65°	147.2	135.1	88.7	48.4	34.3	22.2	20.2	26.2	24.2	22.2	24.2
67.5°	131.0	116.9	74.6	36.3	24.2	12.1	14.1	22.2	22.2	20.2	22.2
70°	112.9	100.8	60.5	26.2	12.1	6.0	10.1	16.1	20.2	18.1	20.2
72.5°	92.7	78.6	46.4	18.1	6.0	0.0	6.0	14.1	20.2	18.1	20.2
75°	72.6	58.5	34.3	10.1	0.0	0.0	2.0	12.1	20.2	18.1	20.2
77.5°	52.4	42.3	20.2	2.0	0.0	0.0	2.0	12.1	20.2	18.1	20.2
80°	34.3	30.2	8.1	0.0	0.0	0.0	2.0	12.1	20.2	20.2	22.2
82.5°	22.2	16.1	0.0	0.0	0.0	0.0	4.0	16.1	22.2	24.2	24.2
85°	10.1	0.0	0.0	0.0	0.0	0.0	8.1	20.2	26.2	26.2	26.2
87.5°	0.0	0.0	0.0	0.0	0.0	4.0	14.1	24.2	30.2	30.2	30.2
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°	8765.2	8765.2	8765.2	8765.2	8765.2	8765.2	8765.2	8765.2	8765.2	8765.2	8765.2
2.5°	7208.9	7335.9	7515.4	7791.5	8015.3	8368.1	8638.2	9007.1	9380.1	9493.0	9668.4
5°	5305.9	5469.2	5876.4	6247.3	6481.2	7227.1	7698.8	8442.7	9110.0	9430.5	9779.2
7.5°	3685.1	3878.6	4189.1	4707.2	5199.1	5805.9	6567.9	7418.6	8396.3	8853.9	9345.8
10°	2586.4	2828.3	3265.8	3691.2	4310.0	4886.6	5638.5	6578.0	7656.5	8196.7	8813.6
12.5°	1632.9	1848.6	2427.2	2904.9	3677.0	4346.3	5039.8	5890.5	7140.4	7694.8	8341.9
15°	933.4	1114.8	1384.9	1997.8	2854.5	3739.5	4604.4	5592.2	6876.3	7559.7	8259.2
17.5°	695.5	743.9	864.8	1211.6	1991.7	3025.9	4203.2	5501.5	7055.7	7858.1	8656.4
20°	584.6	616.9	673.3	810.4	1270.0	2330.4	3812.1	5517.6	7636.3	8644.3	9402.3
22.5°	524.1	544.3	590.7	679.4	866.8	1697.4	3354.5	5612.3	8339.9	9609.9	10484.8
25°	459.6	485.8	526.2	602.8	721.7	1177.3	2902.9	5824.0	9325.7	10835.6	11658.1
27.5°	409.2	433.4	473.7	544.3	633.0	899.1	2376.8	6005.4	10365.9	12069.3	12742.7
30°	358.8	383.0	423.3	479.8	560.4	727.7	1810.3	6112.3	11375.9	12994.6	13512.7
32.5°	316.5	336.7	375.0	425.4	491.9	616.9	1427.3	6001.4	12148.0	13835.3	14182.0
35°	274.2	298.4	330.6	377.0	435.4	526.2	1187.4	5618.4	12811.2	14700.1	14825.1
37.5°	229.8	258.0	292.3	334.6	381.0	483.8	953.5	5195.0	13520.8	15778.6	15573.0
40°	193.5	219.7	252.0	298.4	340.7	443.5	733.8	4743.5	14286.9	16790.6	16389.5
42.5°	157.2	185.5	223.8	266.1	336.7	387.1	568.5	4275.8	14974.3	17671.6	17127.3
45°	125.0	149.2	189.5	243.9	334.6	332.6	439.5	3814.1	15492.4	18300.6	17677.6
47.5°	98.8	118.9	159.3	237.9	308.4	282.2	352.8	3527.9	16036.7	18867.0	18099.0
50°	78.6	98.8	137.1	248.0	270.1	241.9	296.3	3574.2	16562.8	19155.3	18272.3
52.5°	66.5	86.7	118.9	195.5	207.6	211.7	260.1	3787.9	17242.2	19463.7	18617.1
55°	58.5	76.6	100.8	137.1	161.3	189.5	237.9	3943.1	18151.4	20125.0	19377.1
57.5°	46.4	66.5	90.7	116.9	133.1	165.3	219.7	3955.2	18973.9	20973.7	20387.0
59°	42.3	60.5	84.7	110.9	118.9	149.2	207.6	3852.4	19004.1	21100.7	20850.7
60°	38.3	58.5	80.6	102.8	112.9	141.1	197.6	3733.5	18730.0	20899.1	21042.2
62.5°	32.3	50.4	70.6	82.7	96.8	116.9	171.4	3302.1	17401.5	19985.9	20687.4
65°	28.2	44.4	60.5	68.5	80.6	100.8	151.2	2642.9	15933.9	18748.1	19671.4
67.5°	26.2	40.3	52.4	58.5	70.6	92.7	135.1	1866.7	14032.8	17177.7	18145.3
70°	24.2	38.3	46.4	54.4	62.5	78.6	114.9	1088.6	10809.4	14423.9	15446.0
72.5°	24.2	36.3	40.3	46.4	54.4	70.6	106.8	588.6	7390.4	11002.9	12323.3
75°	24.2	34.3	36.3	40.3	48.4	64.5	94.7	308.4	4777.7	7644.4	9434.5
77.5°	24.2	32.3	36.3	38.3	46.4	56.4	82.7	193.5	3183.1	5354.3	6376.4
80°	26.2	32.3	34.3	38.3	44.4	52.4	68.5	129.0	1870.8	3221.4	3880.7
82.5°	28.2	32.3	36.3	40.3	46.4	50.4	60.5	80.6	862.8	2130.8	2411.0
85°	30.2	34.3	38.3	42.3	48.4	50.4	56.4	58.5	141.1	961.6	1300.3
87.5°	32.3	36.3	40.3	44.4	52.4	52.4	52.4	52.4	48.4	102.8	262.1
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-SA8A-740-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8765.2	8765.2	8765.2	8765.2	8765.2	8765.2	8765.2	8765.2	8765.2	8765.2
2.5°	9890.1	10117.9	10277.2	10317.5	10202.6	10150.2	10005.0	9779.2	9642.2	9636.1
5°	10422.3	10956.5	11327.5	11390.0	11168.2	10793.3	10347.7	9773.2	9436.5	9335.7
7.5°	10331.6	11267.0	11863.7	11950.4	11577.5	10861.8	9999.0	9073.7	8706.8	8551.6
10°	9958.7	11099.7	11952.4	12089.5	11591.6	10583.6	9486.9	8454.8	7999.2	7880.2
12.5°	9640.2	10793.3	11551.2	11740.7	11363.8	10357.8	9180.5	8057.6	7569.8	7458.9
15°	9501.1	10430.4	10894.1	10990.8	10928.3	10216.7	9148.3	7997.2	7438.8	7317.8
17.5°	9640.2	10122.0	10180.4	10279.2	10418.3	10202.6	9458.7	8325.8	7723.0	7573.8
20°	10005.0	9853.8	9611.9	9654.3	9972.8	10261.1	10011.1	9053.5	8319.7	8160.5
22.5°	10625.9	9787.3	9239.0	9202.7	9605.9	10456.6	10821.5	10039.3	9188.6	9031.3
25°	11388.0	9954.6	9101.9	9023.3	9462.7	10742.9	11702.4	11246.8	10317.5	10077.6
27.5°	12218.5	10301.4	9101.9	9025.3	9450.7	10996.9	12456.4	12315.3	11486.7	11224.7
30°	12674.1	10587.6	9232.9	9146.2	9599.8	11144.0	12859.6	13264.8	12365.7	12041.1
32.5°	13081.3	10984.8	9489.0	9325.7	9912.3	11361.7	13220.4	14071.2	13065.2	12847.5
35°	13456.3	11410.1	9841.7	9652.2	10323.5	11660.1	13619.6	14917.8	14038.9	13710.3
37.5°	13869.6	11904.0	10392.1	10230.8	11011.0	12240.7	14093.3	16030.6	14996.5	14583.2
40°	14319.1	12476.6	11297.2	11228.7	12103.6	12897.9	14692.1	17218.0	16089.1	15619.4
42.5°	14776.7	13135.8	12406.0	12518.9	13341.4	13819.2	15306.9	18131.2	16984.2	16466.1
45°	15192.0	13978.4	13847.4	14405.8	14784.8	14718.3	15762.5	18774.3	17764.3	17268.4
47.5°	15716.1	15206.1	15591.2	16452.0	16462.0	15696.0	16107.2	19300.5	18435.6	17939.7
50°	16302.8	16655.6	17842.9	18719.9	18484.0	16657.6	16510.4	19923.4	19129.1	18732.0
52.5°	16982.1	18278.4	19923.4	20897.1	20346.7	17705.9	17181.7	20596.7	20229.8	19848.8
55°	17772.4	19385.1	21997.8	22773.9	22219.5	19008.2	18201.8	21509.9	21473.6	21213.6
57.5°	18665.4	20554.4	23199.3	24249.6	23755.7	20536.2	19627.0	22370.7	22233.6	22088.5
59°	19371.0	21155.1	23729.4	24818.0	24519.7	21606.7	20584.6	22906.9	22409.0	22191.3
60°	19798.4	21562.3	23925.0	24894.6	24826.1	22243.7	21191.4	23169.0	22407.0	22104.6
62.5°	21066.4	22273.9	23850.4	24554.0	24822.1	23465.4	22971.5	23457.3	21991.7	21548.2
65°	21518.0	22038.1	22614.6	22528.0	22757.8	23402.9	24108.4	23140.8	21104.7	20473.7
67.5°	20639.0	19451.7	19655.3	19076.7	18963.8	20806.4	23646.8	21592.6	19369.0	18596.9
70°	17397.4	14901.7	14798.9	15065.0	14335.2	16845.1	21233.7	18611.0	16504.4	15629.5
72.5°	13694.2	10531.2	9664.3	10644.1	10621.9	12851.5	17639.3	13206.3	11150.1	11075.5
75°	10769.1	7331.9	6434.8	6594.1	6900.5	9303.5	14049.0	8386.2	6866.2	6257.4
77.5°	7229.1	5195.0	4846.3	4650.7	4981.3	5973.2	8888.2	4547.9	3850.4	3646.8
80°	4166.9	3773.8	4285.9	3890.7	4068.1	3763.7	4420.9	2086.5	1731.7	1874.8
82.5°	2711.4	2149.0	2290.1	1701.4	2326.4	2346.5	1419.2	616.9	522.1	554.4
85°	1695.4	1008.0	566.5	403.2	802.3	1475.7	443.5	38.3	44.4	38.3
87.5°	439.5	167.3	70.6	104.8	129.0	114.9	102.8	6.0	2.0	4.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)