

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: P453046

Luminaire Tested: **GALN-SA4A-740-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453046
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-SA4A-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 12992 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

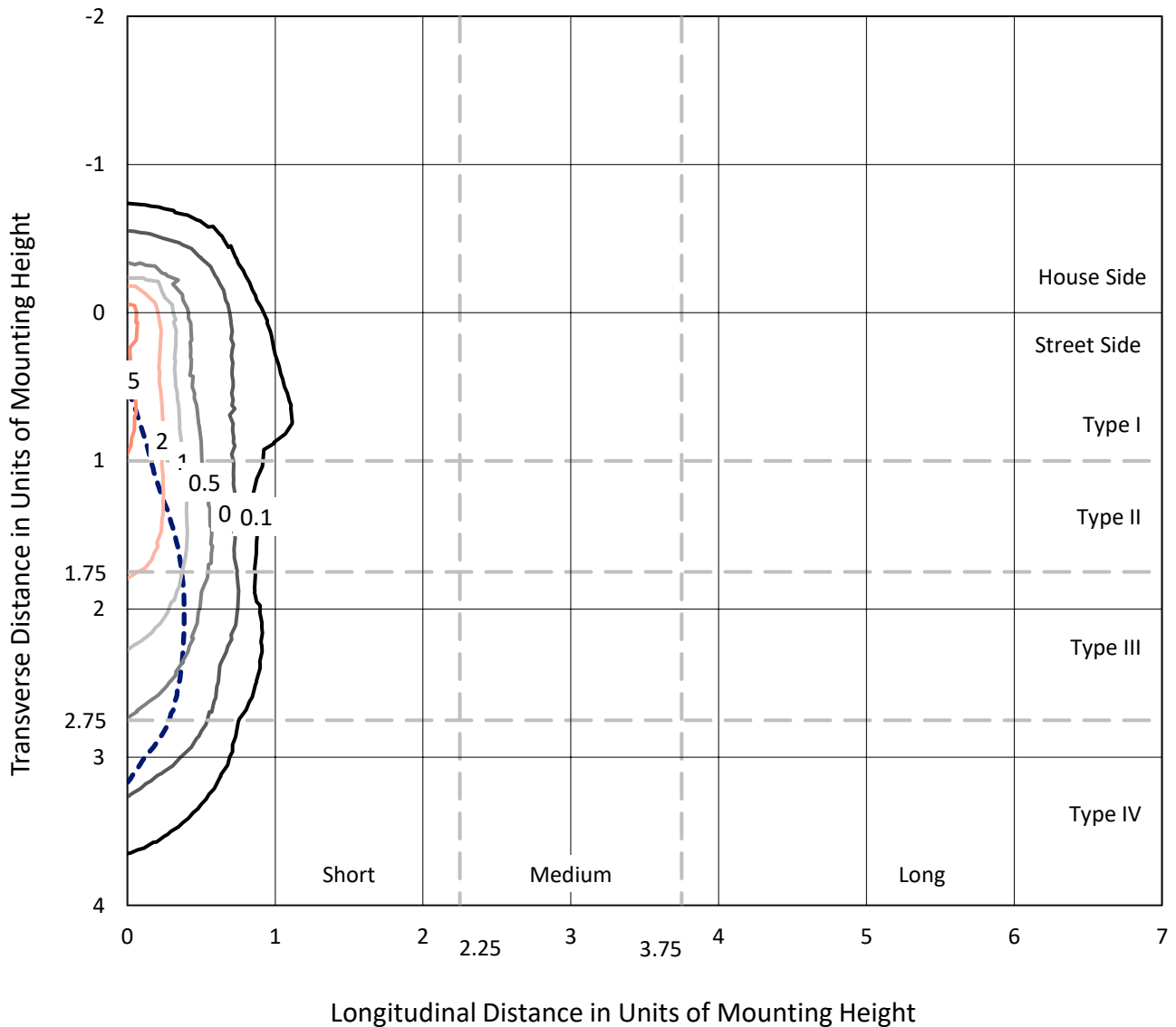
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

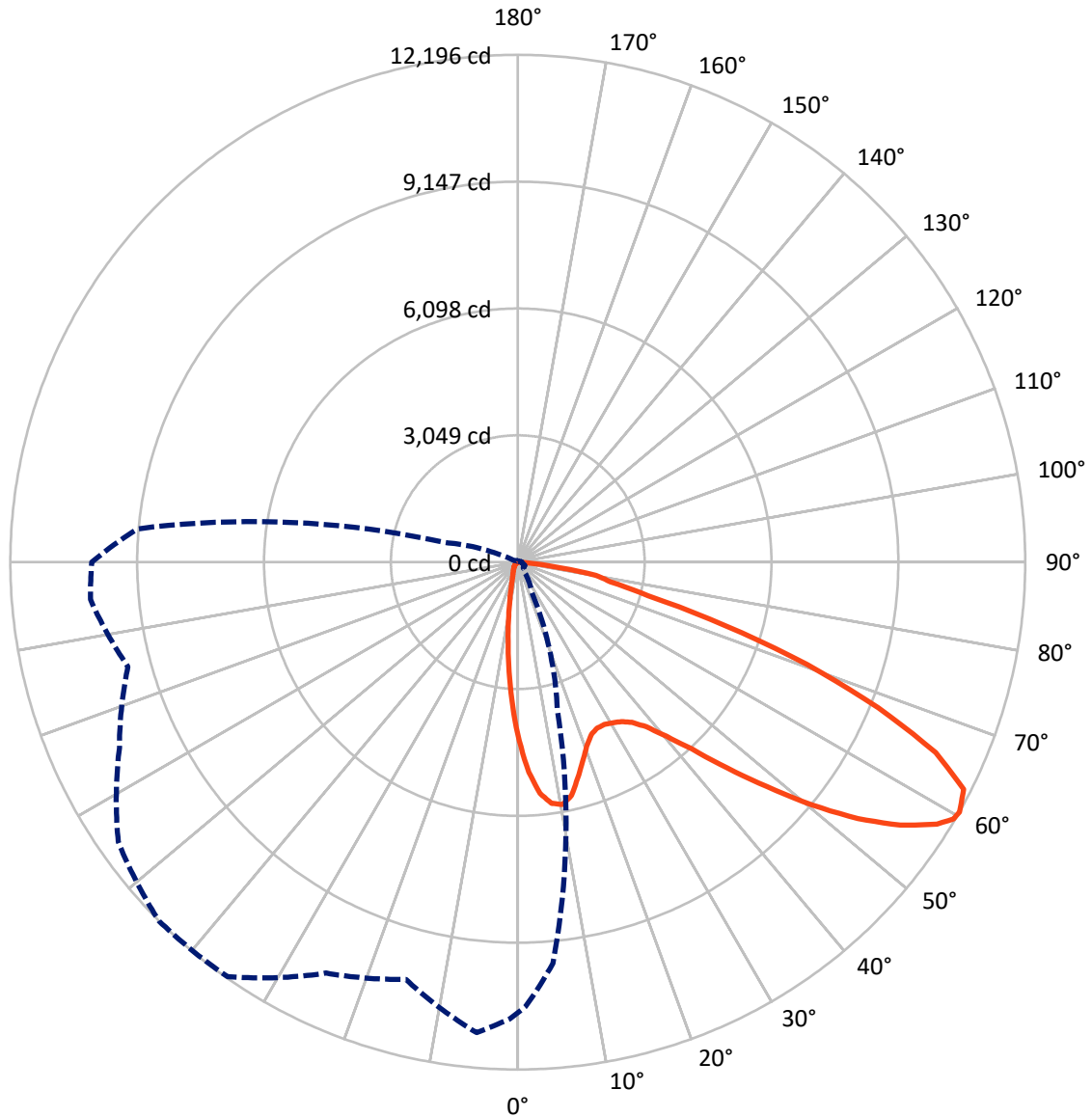
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	1602.4	0.0	1602.4
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	11389.6	0.0	11389.6
	% Fixture	87.7	0.0	87.7
Total	Lumens	12992.0	0.0	12992.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.4	2.5
10°-20°	634.3	4.9
20°-30°	930.0	7.2
30°-40°	1383.1	10.6
40°-50°	2012.9	15.5
50°-60°	2902.7	22.3
60°-70°	3192.7	24.6
70°-80°	1430.1	11.0
80°-90°	186.9	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°	12992.0	100.0
0°-180°	12992.0	100.0



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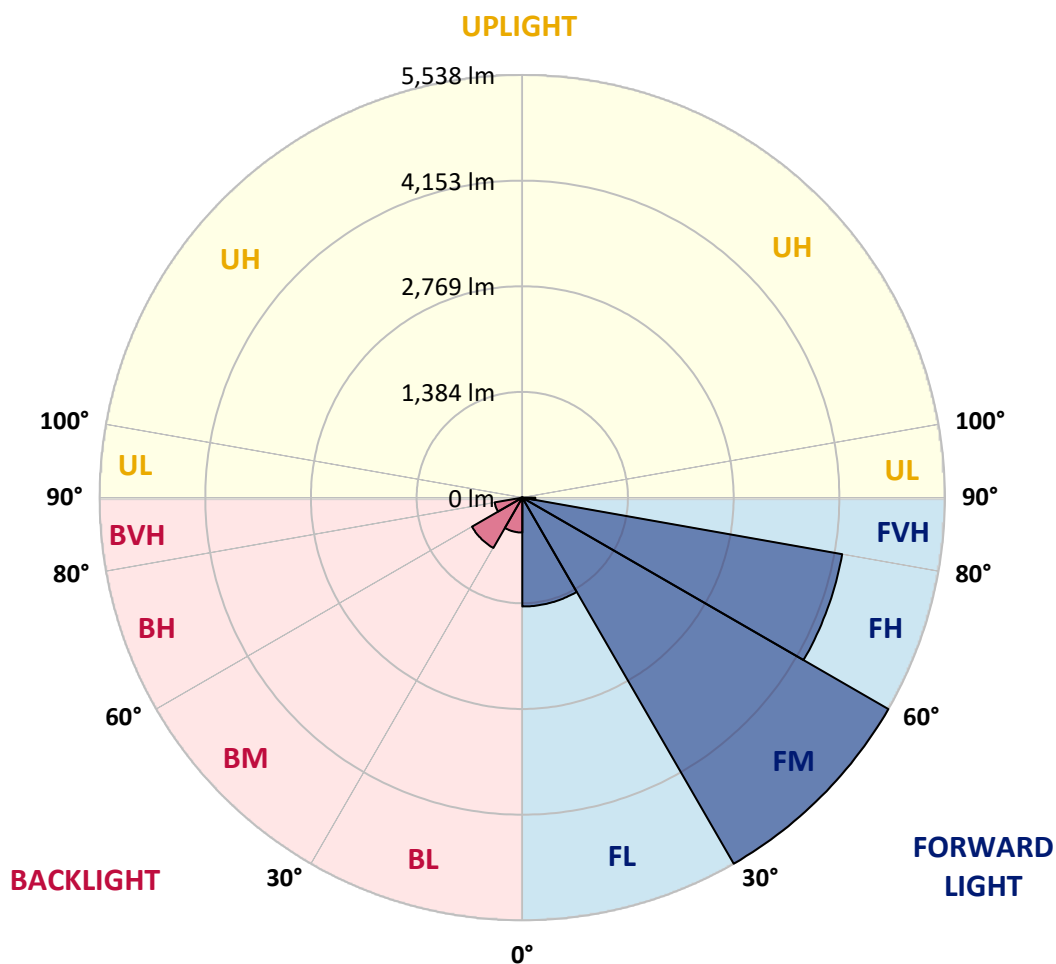
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1425.8	11.0			
FM (30°-60°)	5537.6	42.6			
FH (60°-80°)	4255.3	32.8			G2/5000
FVH (80°-90°)	170.9	1.3			G2/225
BL (0°-30°)	457.9	3.5	B1/500		
BM (30°-60°)	761.1	5.9	B1/1000		
BH (60°-80°)	367.5	2.8	B1/500		G1/500
BVH (80°-90°)	16.0	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°	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0
2.5°	4720.7	4699.9	4652.5	4508.3	4382.9	4219.0	4053.1	3922.7	3842.7	3695.6	3628.4
5°	4573.5	4583.4	4446.1	4149.9	3820.0	3594.8	3348.9	3153.4	2938.1	2801.8	2658.6
7.5°	4189.4	4169.6	4020.5	3607.7	3206.7	2880.8	2569.7	2316.9	2157.9	2030.5	1923.8
10°	3860.5	3845.7	3655.1	3123.7	2693.2	2449.2	2238.9	2017.6	1846.8	1660.1	1511.0
12.5°	3654.1	3620.5	3401.3	2846.2	2495.6	2268.5	2039.4	1809.3	1573.2	1384.6	1203.9
15°	3585.0	3536.6	3292.6	2750.4	2369.2	2080.9	1793.5	1528.8	1257.2	1048.8	912.5
17.5°	3710.4	3630.4	3370.6	2733.6	2218.1	1835.9	1482.4	1137.7	855.3	696.3	612.3
20°	3997.8	3905.9	3568.2	2716.9	2050.2	1561.4	1126.8	803.9	591.6	504.7	458.2
22.5°	4424.4	4298.0	3860.5	2743.5	1895.2	1293.7	813.8	567.9	470.1	415.8	383.2
25°	4937.0	4831.3	4230.8	2838.3	1772.7	1083.4	629.1	464.2	396.0	362.4	337.8
27.5°	5498.9	5330.0	4709.8	2951.9	1661.1	920.4	552.1	414.8	352.6	322.0	309.1
30°	5898.9	5767.5	5110.8	3030.9	1521.9	798.0	504.7	408.9	353.6	317.0	293.3
32.5°	6293.9	6126.0	5446.6	3067.5	1420.2	713.0	436.5	356.5	310.1	291.3	267.6
35°	6716.6	6540.8	5781.4	3047.7	1344.1	656.7	396.0	318.0	265.7	234.1	210.4
37.5°	7144.2	6958.6	6114.2	2976.6	1296.7	634.0	364.4	302.2	250.8	218.3	192.6
40°	7651.8	7404.0	6426.2	2918.3	1247.3	622.2	343.7	292.3	240.0	205.4	179.7
42.5°	8066.6	7830.6	6721.5	2887.7	1213.7	594.5	343.7	284.4	233.1	194.6	167.9
45°	8459.7	8214.8	7040.5	2912.4	1199.9	560.0	347.6	283.4	228.1	186.7	160.0
47.5°	8788.6	8576.2	7368.4	3005.2	1182.1	522.4	326.9	297.3	225.2	179.7	152.1
50°	9176.7	8971.3	7802.0	3192.9	1150.5	484.9	301.2	320.0	224.2	173.8	145.2
52.5°	9723.8	9501.6	8400.4	3406.2	1100.2	427.6	277.5	317.0	220.2	163.9	138.3
55°	10392.4	10212.7	9093.7	3662.0	1031.0	363.4	240.0	281.5	208.4	147.2	126.4
57.5°	10821.0	10667.9	9613.2	3772.6	925.4	297.3	211.3	236.0	190.6	131.3	112.6
59°	10871.4	10733.1	9721.8	3736.1	856.2	271.6	197.5	202.5	185.7	122.5	104.7
60°	10828.9	10685.7	9678.4	3664.9	792.0	253.8	185.7	179.7	186.7	117.5	98.8
62.5°	10556.4	10311.4	9256.7	3304.5	692.3	233.1	164.9	147.2	164.9	105.7	87.9
65°	10030.0	9662.6	8422.2	2796.9	652.8	221.2	140.2	123.4	125.4	92.8	76.0
67.5°	9110.5	8647.3	7311.1	2272.4	636.0	222.2	118.5	110.6	96.8	79.0	67.2
70°	7656.8	7194.6	5866.3	1869.5	628.1	222.2	100.7	94.8	81.0	66.2	58.3
72.5°	5425.8	4928.1	3957.3	1468.5	565.9	221.2	85.9	85.9	66.2	55.3	47.4
75°	3065.5	3069.4	2487.7	1038.9	470.1	182.7	69.1	68.1	48.4	42.5	35.6
77.5°	1786.6	1754.9	1676.9	446.4	218.3	83.0	48.4	41.5	33.6	30.6	25.7
80°	918.5	755.5	735.8	162.0	78.0	52.3	33.6	23.7	21.7	19.8	17.8
82.5°	271.6	272.6	242.9	65.2	43.5	34.6	16.8	12.8	11.9	10.9	10.9
85°	18.8	11.9	13.8	19.8	26.7	13.8	1.0	3.0	3.0	4.0	4.9
87.5°	2.0	1.0	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°	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0
2.5°	3554.3	3597.8	3516.8	3518.8	3451.6	3473.4	3394.3	3420.0	3373.6	3409.2	3513.8
5°	2674.4	2684.3	2619.1	2598.3	2608.2	2648.7	2664.5	2592.4	2623.0	2562.8	2558.8
7.5°	1884.3	1896.2	1858.6	1853.7	1924.8	1908.0	1938.6	1864.6	1794.5	1825.1	1768.8
10°	1463.6	1414.2	1337.2	1315.5	1301.6	1310.5	1310.5	1243.4	1233.5	1206.8	1247.3
12.5°	1155.5	1095.2	1022.2	923.4	898.7	896.7	860.2	800.9	782.2	759.5	793.0
15°	839.5	814.8	753.5	698.2	641.9	631.1	571.8	523.4	459.2	450.3	447.4
17.5°	590.6	554.0	553.1	521.4	488.9	467.1	411.8	356.5	331.8	328.9	328.9
20°	442.4	429.6	408.9	404.9	395.0	370.3	321.0	291.3	279.5	280.5	284.4
22.5°	372.3	363.4	344.7	335.8	331.8	310.1	273.6	253.8	247.9	247.9	248.9
25°	332.8	324.9	304.2	290.4	285.4	269.6	241.0	226.2	221.2	221.2	221.2
27.5°	303.2	293.3	271.6	259.7	250.8	233.1	215.3	200.5	195.5	195.5	196.5
30°	282.5	271.6	251.8	236.0	222.2	206.4	191.6	178.8	172.8	171.8	172.8
32.5°	254.8	244.9	225.2	215.3	199.5	180.7	168.9	157.0	151.1	152.1	151.1
35°	198.5	195.5	181.7	184.7	175.8	160.0	149.1	136.3	129.4	128.4	130.4
37.5°	180.7	168.9	153.1	154.1	151.1	145.2	127.4	113.6	108.6	108.6	109.6
40°	166.9	155.1	137.3	128.4	129.4	129.4	110.6	95.8	90.9	89.9	91.8
42.5°	155.1	143.2	123.4	108.6	104.7	109.6	93.8	79.0	74.1	72.1	74.1
45°	147.2	134.3	111.6	94.8	83.0	88.9	77.0	65.2	59.3	59.3	58.3
47.5°	139.3	127.4	102.7	82.0	69.1	66.2	63.2	52.3	46.4	45.4	46.4
50°	132.3	120.5	92.8	71.1	58.3	51.4	51.4	41.5	37.5	35.6	36.5
52.5°	125.4	112.6	83.9	63.2	50.4	41.5	36.5	33.6	30.6	29.6	30.6
55°	115.5	102.7	75.1	54.3	43.5	34.6	28.6	27.7	25.7	23.7	25.7
57.5°	103.7	91.8	66.2	46.4	34.6	26.7	23.7	22.7	20.7	19.8	19.8
59°	96.8	85.9	61.2	40.5	30.6	23.7	21.7	20.7	18.8	16.8	17.8
60°	92.8	83.9	58.3	37.5	27.7	21.7	19.8	18.8	16.8	15.8	16.8
62.5°	82.0	75.1	51.4	30.6	21.7	15.8	13.8	14.8	13.8	12.8	13.8
65°	72.1	66.2	43.5	23.7	16.8	10.9	9.9	12.8	11.9	10.9	11.9
67.5°	64.2	57.3	36.5	17.8	11.9	5.9	6.9	10.9	10.9	9.9	10.9
70°	55.3	49.4	29.6	12.8	5.9	3.0	4.9	7.9	9.9	8.9	9.9
72.5°	45.4	38.5	22.7	8.9	3.0	0.0	3.0	6.9	9.9	8.9	9.9
75°	35.6	28.6	16.8	4.9	0.0	0.0	1.0	5.9	9.9	8.9	9.9
77.5°	25.7	20.7	9.9	1.0	0.0	0.0	1.0	5.9	9.9	8.9	9.9
80°	16.8	14.8	4.0	0.0	0.0	0.0	1.0	5.9	9.9	9.9	10.9
82.5°	10.9	7.9	0.0	0.0	0.0	0.0	2.0	7.9	10.9	11.9	11.9
85°	4.9	0.0	0.0	0.0	0.0	0.0	4.0	9.9	12.8	12.8	12.8
87.5°	0.0	0.0	0.0	0.0	0.0	2.0	6.9	11.9	14.8	14.8	14.8
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°	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0
2.5°	3531.6	3593.8	3681.7	3817.0	3926.7	4099.5	4231.8	4412.6	4595.3	4650.6	4736.5
5°	2599.3	2679.3	2878.8	3060.5	3175.1	3540.5	3771.6	4136.0	4462.9	4619.9	4790.8
7.5°	1805.3	1900.1	2052.2	2306.0	2547.0	2844.3	3217.6	3634.3	4113.3	4337.5	4578.5
10°	1267.1	1385.6	1599.9	1808.3	2111.5	2393.9	2762.3	3222.5	3750.9	4015.5	4317.7
12.5°	799.9	905.6	1189.1	1423.1	1801.4	2129.2	2469.0	2885.7	3498.0	3769.6	4086.6
15°	457.3	546.1	678.5	978.7	1398.4	1832.0	2255.7	2739.6	3368.7	3703.5	4046.2
17.5°	340.7	364.4	423.7	593.5	975.7	1482.4	2059.1	2695.1	3456.6	3849.6	4240.7
20°	286.4	302.2	329.9	397.0	622.2	1141.7	1867.5	2703.0	3741.0	4234.8	4606.1
22.5°	256.8	266.6	289.4	332.8	424.7	831.6	1643.3	2749.5	4085.7	4707.8	5136.5
25°	225.2	238.0	257.8	295.3	353.6	576.8	1422.1	2853.1	4568.6	5308.3	5711.2
27.5°	200.5	212.3	232.1	266.6	310.1	440.5	1164.4	2942.0	5078.2	5912.7	6242.6
30°	175.8	187.6	207.4	235.0	274.6	356.5	886.9	2994.4	5573.0	6366.0	6619.8
32.5°	155.1	164.9	183.7	208.4	241.0	302.2	699.2	2940.1	5951.2	6777.8	6947.7
35°	134.3	146.2	162.0	184.7	213.3	257.8	581.7	2752.4	6276.1	7201.5	7262.7
37.5°	112.6	126.4	143.2	163.9	186.7	237.0	467.1	2545.0	6623.8	7729.9	7629.1
40°	94.8	107.6	123.4	146.2	166.9	217.3	359.5	2323.8	6999.1	8225.6	8029.1
42.5°	77.0	90.9	109.6	130.4	164.9	189.6	278.5	2094.7	7335.8	8657.2	8390.6
45°	61.2	73.1	92.8	119.5	163.9	163.0	215.3	1868.5	7589.6	8965.3	8660.2
47.5°	48.4	58.3	78.0	116.5	151.1	138.3	172.8	1728.3	7856.3	9242.9	8866.6
50°	38.5	48.4	67.2	121.5	132.3	118.5	145.2	1751.0	8114.0	9384.1	8951.5
52.5°	32.6	42.5	58.3	95.8	101.7	103.7	127.4	1855.7	8446.9	9535.2	9120.4
55°	28.6	37.5	49.4	67.2	79.0	92.8	116.5	1931.7	8892.3	9859.1	9492.7
57.5°	22.7	32.6	44.4	57.3	65.2	81.0	107.6	1937.7	9295.2	10274.9	9987.5
59°	20.7	29.6	41.5	54.3	58.3	73.1	101.7	1887.3	9310.0	10337.1	10214.6
60°	18.8	28.6	39.5	50.4	55.3	69.1	96.8	1829.0	9175.7	10238.3	10308.5
62.5°	15.8	24.7	34.6	40.5	47.4	57.3	83.9	1617.7	8524.9	9791.0	10134.6
65°	13.8	21.7	29.6	33.6	39.5	49.4	74.1	1294.7	7805.9	9184.6	9636.9
67.5°	12.8	19.8	25.7	28.6	34.6	45.4	66.2	914.5	6874.6	8415.3	8889.3
70°	11.9	18.8	22.7	26.7	30.6	38.5	56.3	533.3	5295.5	7066.2	7566.9
72.5°	11.9	17.8	19.8	22.7	26.7	34.6	52.3	288.4	3620.5	5390.3	6037.1
75°	11.9	16.8	17.8	19.8	23.7	31.6	46.4	151.1	2340.6	3744.9	4621.9
77.5°	11.9	15.8	17.8	18.8	22.7	27.7	40.5	94.8	1559.4	2623.0	3123.7
80°	12.8	15.8	16.8	18.8	21.7	25.7	33.6	63.2	916.5	1578.2	1901.1
82.5°	13.8	15.8	17.8	19.8	22.7	24.7	29.6	39.5	422.7	1043.9	1181.2
85°	14.8	16.8	18.8	20.7	23.7	24.7	27.7	28.6	69.1	471.1	637.0
87.5°	15.8	17.8	19.8	21.7	25.7	25.7	25.7	25.7	23.7	50.4	128.4
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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CATALOG NUMBER: GALN-SA4A-740-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0	4294.0
2.5°	4845.1	4956.7	5034.7	5054.5	4998.2	4972.5	4901.4	4790.8	4723.6	4720.7
5°	5105.8	5367.6	5549.3	5579.9	5471.2	5287.6	5069.3	4787.8	4622.9	4573.5
7.5°	5061.4	5519.6	5812.0	5854.4	5671.7	5321.1	4898.4	4445.1	4265.4	4189.4
10°	4878.7	5437.7	5855.4	5922.6	5678.6	5184.8	4647.6	4142.0	3918.8	3860.5
12.5°	4722.7	5287.6	5658.9	5751.7	5567.0	5074.2	4497.5	3947.4	3708.4	3654.1
15°	4654.5	5109.8	5336.9	5384.3	5353.7	5005.1	4481.7	3917.8	3644.2	3585.0
17.5°	4722.7	4958.7	4987.3	5035.7	5103.9	4998.2	4633.8	4078.7	3783.5	3710.4
20°	4901.4	4827.3	4708.8	4729.6	4885.6	5026.8	4904.4	4435.3	4075.8	3997.8
22.5°	5205.6	4794.7	4526.1	4508.3	4705.9	5122.6	5301.4	4918.2	4501.4	4424.4
25°	5578.9	4876.7	4459.0	4420.5	4635.7	5262.9	5733.0	5509.8	5054.5	4937.0
27.5°	5985.8	5046.6	4459.0	4421.4	4629.8	5387.3	6102.3	6033.2	5627.3	5498.9
30°	6209.0	5186.8	4523.2	4480.7	4702.9	5459.4	6299.8	6498.3	6057.9	5898.9
32.5°	6408.5	5381.4	4648.6	4568.6	4856.0	5566.1	6476.6	6893.4	6400.6	6293.9
35°	6592.2	5589.8	4821.4	4728.6	5057.4	5712.2	6672.2	7308.2	6877.6	6716.6
37.5°	6794.6	5831.7	5091.0	5012.0	5394.2	5996.6	6904.2	7853.3	7346.7	7144.2
40°	7014.9	6112.2	5534.5	5500.9	5929.5	6318.6	7197.6	8435.0	7882.0	7651.8
42.5°	7239.0	6435.1	6077.6	6132.9	6535.9	6769.9	7498.8	8882.4	8320.4	8066.6
45°	7442.5	6847.9	6783.8	7057.3	7243.0	7210.4	7722.0	9197.4	8702.6	8459.7
47.5°	7699.3	7449.4	7638.0	8059.7	8064.7	7689.4	7890.8	9455.2	9031.5	8788.6
50°	7986.6	8159.5	8741.2	9170.8	9055.2	8160.5	8088.4	9760.4	9371.2	9176.7
52.5°	8319.5	8954.5	9760.4	10237.4	9967.7	8674.0	8417.2	10090.2	9910.5	9723.8
55°	8706.6	9496.7	10776.6	11156.8	10885.2	9312.0	8917.0	10537.6	10519.8	10392.4
57.5°	9144.1	10069.5	11365.2	11879.7	11637.8	10060.6	9615.2	10959.3	10892.1	10821.0
59°	9489.8	10363.8	11624.9	12158.2	12012.1	10585.0	10084.3	11222.0	10978.1	10871.4
60°	9699.1	10563.3	11720.7	12195.7	12162.2	10897.1	10381.5	11350.4	10977.1	10828.9
62.5°	10320.3	10911.9	11684.2	12028.8	12160.2	11495.5	11253.6	11491.6	10773.6	10556.4
65°	10541.5	10796.3	11078.8	11036.3	11148.9	11464.9	11810.6	11336.5	10339.1	10030.0
67.5°	10110.9	9529.3	9629.0	9345.6	9290.3	10192.9	11584.4	10578.1	9488.8	9110.5
70°	8522.9	7300.3	7249.9	7380.3	7022.8	8252.3	10402.3	9117.4	8085.4	7656.8
72.5°	6708.7	5159.2	4734.5	5214.5	5203.6	6295.9	8641.4	6469.7	5462.4	5425.8
75°	5275.7	3591.9	3152.4	3230.4	3380.5	4557.7	6882.5	4108.4	3363.7	3065.5
77.5°	3541.5	2545.0	2374.2	2278.4	2440.3	2926.2	4354.3	2228.0	1886.3	1786.6
80°	2041.3	1848.8	2099.6	1906.0	1993.0	1843.8	2165.8	1022.2	848.3	918.5
82.5°	1328.3	1052.8	1121.9	833.5	1139.7	1149.6	695.3	302.2	255.8	271.6
85°	830.6	493.8	277.5	197.5	393.1	722.9	217.3	18.8	21.7	18.8
87.5°	215.3	82.0	34.6	51.4	63.2	56.3	50.4	3.0	1.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)