

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: P457686

Luminaire Tested: **GALN-SA9A-740-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457686
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-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 29773 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: B3 - U0 - G4

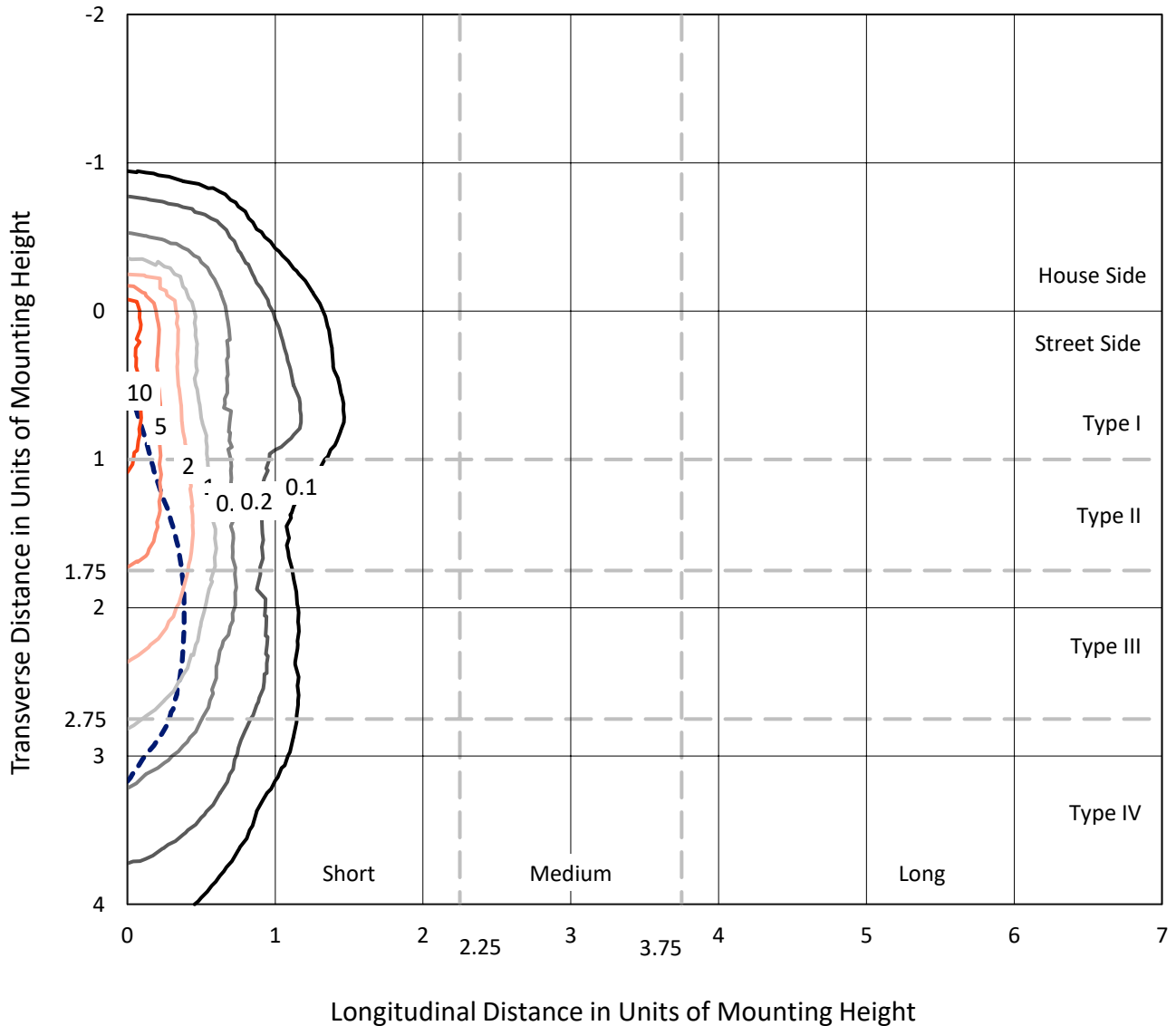
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

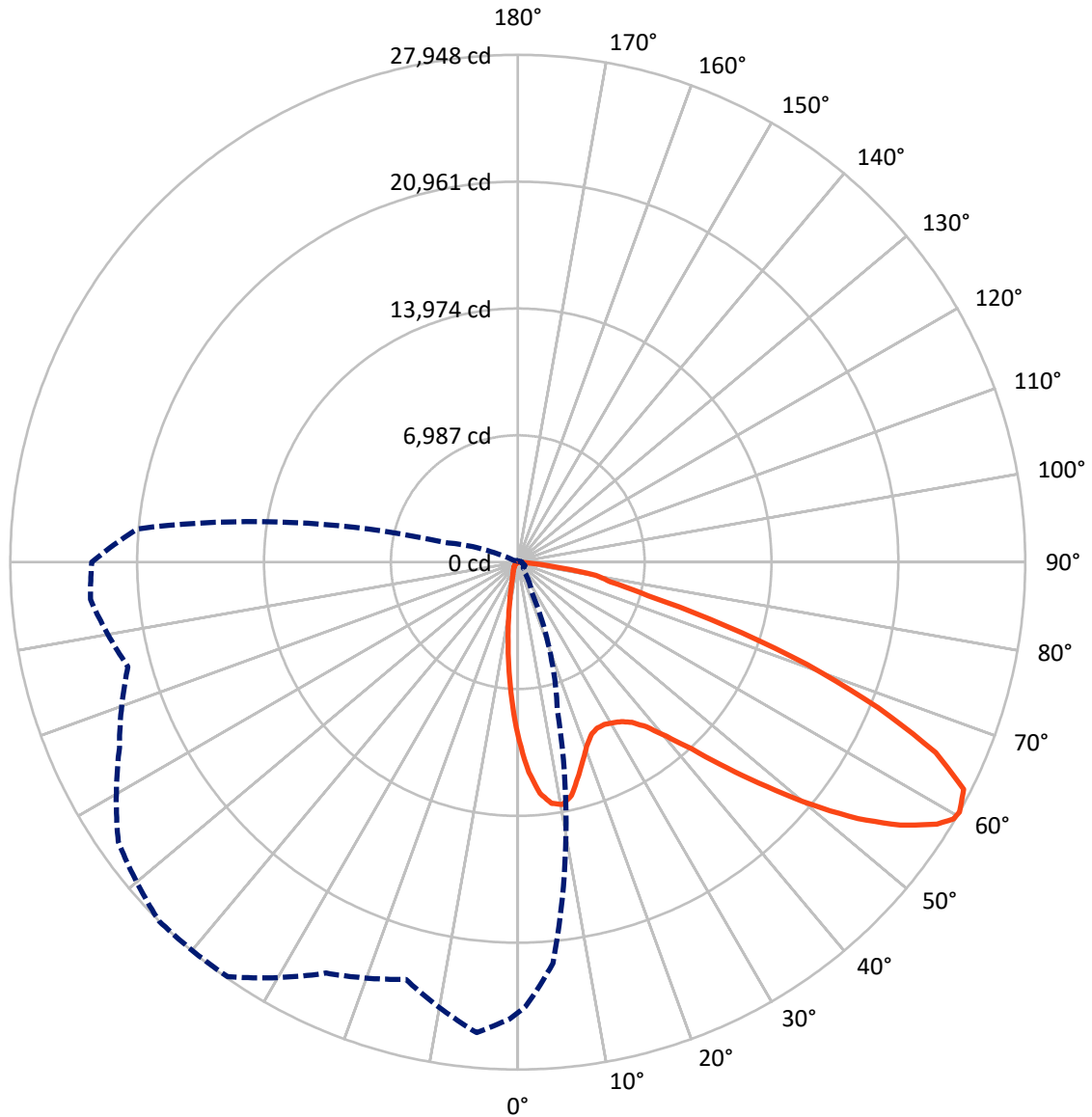
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 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	3672.2	0.0	3672.2
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	26100.8	0.0	26100.8
	% Fixture	87.7	0.0	87.7
Total	Lumens	29773.0	0.0	29773.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	731.9	2.5
10°-20°	1453.5	4.9
20°-30°	2131.3	7.2
30°-40°	3169.6	10.6
40°-50°	4612.8	15.5
50°-60°	6652.0	22.3
60°-70°	7316.5	24.6
70°-80°	3277.2	11.0
80°-90°	428.2	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°	29773.0	100.0
0°-180°	29773.0	100.0

Coefficient of Utilization



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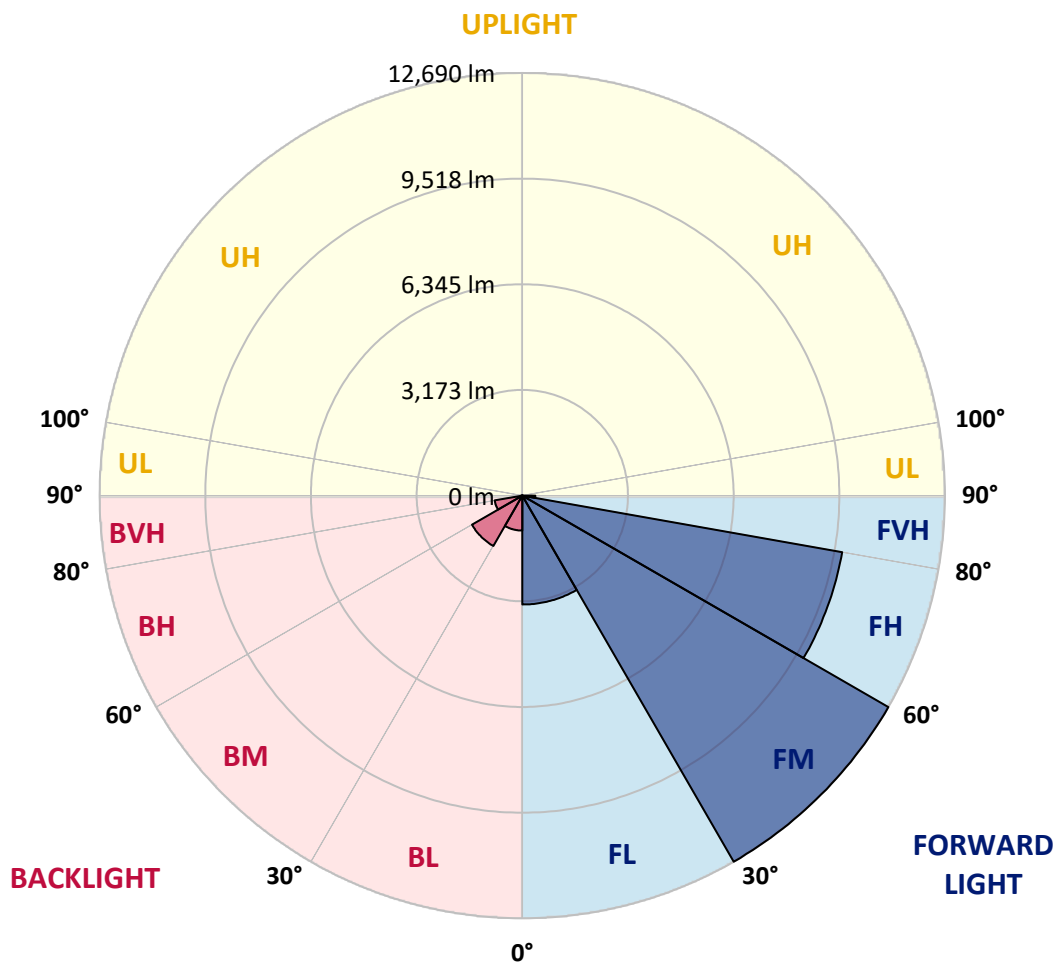
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3267.5	11.0			
FM	(30°-60°)	12690.2	42.6			
FH	(60°-80°)	9751.5	32.8			G4/12000
FVH	(80°-90°)	391.6	1.3			G3/500
BL	(0°-30°)	1049.3	3.5	B3/2500		
BM	(30°-60°)	1744.2	5.9	B2/2500		
BH	(60°-80°)	842.1	2.8	B2/1000		G2/1000
BVH	(80°-90°)	36.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9840.4	9840.4	9840.4	9840.4	9840.4	9840.4	9840.4	9840.4	9840.4	9840.4	9840.4
2.5°	10818.1	10770.6	10661.9	10331.5	10044.1	9668.4	9288.2	8989.4	8806.1	8468.9	8315.0
5°	10480.9	10503.5	10188.9	9510.0	8754.1	8238.1	7674.5	7226.4	6733.0	6420.7	6092.5
7.5°	9600.5	9555.2	9213.5	8267.5	7348.6	6601.8	5888.9	5309.5	4945.1	4653.1	4408.7
10°	8846.9	8812.9	8376.1	7158.5	6171.8	5612.7	5130.7	4623.7	4232.2	3804.4	3462.7
12.5°	8373.8	8296.9	7794.5	6522.5	5719.1	5198.6	4673.5	4146.2	3605.3	3173.0	2758.8
15°	8215.4	8104.5	7545.5	6303.0	5429.4	4768.6	4110.0	3503.4	2881.1	2403.5	2091.2
17.5°	8502.8	8319.5	7724.3	6264.5	5083.2	4207.3	3397.1	2607.2	1959.9	1595.6	1403.2
20°	9161.4	8951.0	8176.9	6226.1	4698.4	3578.1	2582.3	1842.2	1355.7	1156.5	1050.1
22.5°	10139.1	9849.5	8846.9	6287.2	4343.1	2964.8	1864.9	1301.3	1077.3	952.8	878.1
25°	11313.7	11071.6	9695.6	6504.4	4062.4	2482.7	1441.7	1063.7	907.5	830.6	774.0
27.5°	12601.5	12214.5	10793.2	6764.7	3806.7	2109.3	1265.1	950.5	808.0	737.8	708.4
30°	13518.1	13217.1	11712.1	6945.8	3487.6	1828.7	1156.5	937.0	810.2	726.5	672.2
32.5°	14423.4	14038.6	12481.6	7029.5	3254.5	1634.0	1000.3	817.0	710.6	667.6	613.3
35°	15392.0	14989.2	13248.8	6984.2	3080.2	1505.0	907.5	728.8	608.8	536.4	482.1
37.5°	16372.0	15946.5	14011.5	6821.3	2971.6	1453.0	835.1	692.5	574.9	500.2	441.3
40°	17535.3	16967.2	14726.7	6687.8	2858.4	1425.8	787.6	669.9	550.0	470.7	411.9
42.5°	18485.8	17944.9	15403.4	6617.6	2781.5	1362.4	787.6	651.8	534.1	445.9	384.7
45°	19386.6	18825.3	16134.4	6674.2	2749.8	1283.2	796.6	649.5	522.8	427.7	366.6
47.5°	20140.2	19653.6	16885.7	6886.9	2709.1	1197.2	749.1	681.2	516.0	411.9	348.5
50°	21029.7	20558.9	17879.3	7316.9	2636.6	1111.2	690.3	733.3	513.7	398.3	332.7
52.5°	22283.5	21774.3	19250.8	7805.8	2521.2	980.0	636.0	726.5	504.7	375.7	316.8
55°	23815.7	23403.8	20839.6	8392.0	2362.8	832.9	550.0	645.0	477.5	337.2	289.7
57.5°	24797.9	24447.1	22030.0	8645.4	2120.6	681.2	484.3	540.9	436.8	301.0	258.0
59°	24913.3	24596.5	22279.0	8561.7	1962.2	622.4	452.6	464.0	425.5	280.6	239.9
60°	24816.0	24487.8	22179.4	8398.7	1815.1	581.6	425.5	411.9	427.7	269.3	226.3
62.5°	24191.4	23630.1	21213.0	7572.7	1586.5	534.1	378.0	337.2	378.0	242.2	201.4
65°	22985.1	22143.2	19300.6	6409.4	1496.0	507.0	321.4	282.9	287.4	212.7	174.3
67.5°	20878.0	19816.6	16754.5	5207.6	1457.5	509.2	271.6	253.5	221.8	181.1	153.9
70°	17546.6	16487.4	13443.4	4284.2	1439.4	509.2	230.8	217.3	185.6	151.6	133.5
72.5°	12434.0	11293.4	9068.7	3365.4	1296.8	507.0	196.9	196.9	151.6	126.7	108.6
75°	7025.0	7034.0	5701.0	2380.9	1077.3	418.7	158.4	156.2	110.9	97.3	81.5
77.5°	4094.1	4021.7	3842.9	1023.0	500.2	190.1	110.9	95.1	76.9	70.2	58.8
80°	2104.8	1731.3	1686.1	371.2	178.8	119.9	76.9	54.3	49.8	45.3	40.7
82.5°	622.4	624.6	556.7	149.4	99.6	79.2	38.5	29.4	27.2	24.9	24.9
85°	43.0	27.2	31.7	45.3	61.1	31.7	2.3	6.8	6.8	9.1	11.3
87.5°	4.5	2.3	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°	9840.4	9840.4	9840.4	9840.4	9840.4	9840.4	9840.4	9840.4	9840.4	9840.4	9840.4
2.5°	8145.3	8244.8	8059.3	8063.8	7909.9	7959.7	7778.6	7837.5	7731.1	7812.6	8052.5
5°	6128.8	6151.4	6002.0	5954.5	5977.1	6069.9	6106.1	5940.9	6011.1	5873.0	5864.0
7.5°	4318.2	4345.3	4259.3	4248.0	4411.0	4372.5	4442.7	4272.9	4112.2	4182.4	4053.4
10°	3354.1	3240.9	3064.4	3014.6	2982.9	3003.3	3003.3	2849.4	2826.7	2765.6	2858.4
12.5°	2647.9	2509.9	2342.4	2116.1	2059.5	2055.0	1971.2	1835.5	1792.5	1740.4	1817.4
15°	1923.7	1867.1	1726.8	1600.1	1471.1	1446.2	1310.4	1199.5	1052.4	1032.0	1025.2
17.5°	1353.4	1269.7	1267.4	1195.0	1120.3	1070.5	943.8	817.0	760.4	753.6	753.6
20°	1013.9	984.5	937.0	927.9	905.3	848.7	735.5	667.6	640.5	642.7	651.8
22.5°	853.2	832.9	789.9	769.5	760.4	710.6	626.9	581.6	568.1	568.1	570.3
25°	762.7	744.6	697.1	665.4	654.1	617.9	552.2	518.3	507.0	507.0	507.0
27.5°	694.8	672.2	622.4	595.2	574.9	534.1	493.4	459.4	448.1	448.1	450.4
30°	647.3	622.4	577.1	540.9	509.2	473.0	439.1	409.6	396.1	393.8	396.1
32.5°	583.9	561.3	516.0	493.4	457.2	414.2	387.0	359.8	346.3	348.5	346.3
35°	454.9	448.1	416.4	423.2	402.8	366.6	341.7	312.3	296.5	294.2	298.7
37.5°	414.2	387.0	350.8	353.1	346.3	332.7	292.0	260.3	249.0	249.0	251.2
40°	382.5	355.3	314.6	294.2	296.5	296.5	253.5	219.5	208.2	206.0	210.5
42.5°	355.3	328.2	282.9	249.0	239.9	251.2	215.0	181.1	169.7	165.2	169.7
45°	337.2	307.8	255.7	217.3	190.1	203.7	176.5	149.4	135.8	135.8	133.5
47.5°	319.1	292.0	235.4	187.8	158.4	151.6	144.8	119.9	106.4	104.1	106.4
50°	303.3	276.1	212.7	163.0	133.5	117.7	117.7	95.1	86.0	81.5	83.7
52.5°	287.4	258.0	192.4	144.8	115.4	95.1	83.7	76.9	70.2	67.9	70.2
55°	264.8	235.4	172.0	124.5	99.6	79.2	65.6	63.4	58.8	54.3	58.8
57.5°	237.6	210.5	151.6	106.4	79.2	61.1	54.3	52.1	47.5	45.3	45.3
59°	221.8	196.9	140.3	92.8	70.2	54.3	49.8	47.5	43.0	38.5	40.7
60°	212.7	192.4	133.5	86.0	63.4	49.8	45.3	43.0	38.5	36.2	38.5
62.5°	187.8	172.0	117.7	70.2	49.8	36.2	31.7	33.9	31.7	29.4	31.7
65°	165.2	151.6	99.6	54.3	38.5	24.9	22.6	29.4	27.2	24.9	27.2
67.5°	147.1	131.3	83.7	40.7	27.2	13.6	15.8	24.9	24.9	22.6	24.9
70°	126.7	113.2	67.9	29.4	13.6	6.8	11.3	18.1	22.6	20.4	22.6
72.5°	104.1	88.3	52.1	20.4	6.8	0.0	6.8	15.8	22.6	20.4	22.6
75°	81.5	65.6	38.5	11.3	0.0	0.0	2.3	13.6	22.6	20.4	22.6
77.5°	58.8	47.5	22.6	2.3	0.0	0.0	2.3	13.6	22.6	20.4	22.6
80°	38.5	33.9	9.1	0.0	0.0	0.0	2.3	13.6	22.6	22.6	24.9
82.5°	24.9	18.1	0.0	0.0	0.0	0.0	4.5	18.1	24.9	27.2	27.2
85°	11.3	0.0	0.0	0.0	0.0	0.0	9.1	22.6	29.4	29.4	29.4
87.5°	0.0	0.0	0.0	0.0	0.0	4.5	15.8	27.2	33.9	33.9	33.9
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°	9840.4	9840.4	9840.4	9840.4	9840.4	9840.4	9840.4	9840.4	9840.4	9840.4	9840.4
2.5°	8093.2	8235.8	8437.2	8747.3	8998.5	9394.6	9697.8	10112.0	10530.7	10657.4	10854.3
5°	5956.7	6140.1	6597.2	7013.7	7276.2	8113.6	8643.2	9478.3	10227.4	10587.3	10978.8
7.5°	4137.1	4354.4	4702.9	5284.6	5836.8	6518.0	7373.5	8328.6	9426.2	9940.0	10492.2
10°	2903.7	3175.3	3666.4	4143.9	4838.7	5486.0	6330.2	7384.8	8595.6	9202.2	9894.7
12.5°	1833.2	2075.4	2724.9	3261.3	4128.1	4879.5	5658.0	6613.1	8016.3	8638.6	9365.1
15°	1047.9	1251.6	1554.8	2242.8	3204.7	4198.2	5169.2	6278.1	7719.8	8487.0	9272.3
17.5°	780.8	835.1	970.9	1360.2	2236.0	3397.1	4718.8	6176.3	7921.2	8822.0	9718.2
20°	656.3	692.5	755.9	909.8	1425.8	2616.3	4279.7	6194.4	8573.0	9704.6	10555.6
22.5°	588.4	611.1	663.1	762.7	973.2	1905.6	3766.0	6300.8	9362.9	10788.7	11770.9
25°	516.0	545.4	590.7	676.7	810.2	1321.7	3259.0	6538.4	10469.6	12164.7	13088.1
27.5°	459.4	486.6	531.9	611.1	710.6	1009.4	2668.3	6742.1	11637.4	13549.8	14305.7
30°	402.8	430.0	475.3	538.6	629.2	817.0	2032.4	6862.0	12771.2	14588.6	15170.2
32.5°	355.3	378.0	421.0	477.5	552.2	692.5	1602.3	6737.6	13638.1	15532.4	15921.6
35°	307.8	335.0	371.2	423.2	488.9	590.7	1333.0	6307.5	14382.6	16503.3	16643.6
37.5°	258.0	289.7	328.2	375.7	427.7	543.2	1070.5	5832.3	15179.3	17714.1	17483.2
40°	217.3	246.7	282.9	335.0	382.5	497.9	823.8	5325.3	16039.3	18850.2	18399.8
42.5°	176.5	208.2	251.2	298.7	378.0	434.5	638.2	4800.3	16811.1	19839.2	19228.2
45°	140.3	167.5	212.7	273.8	375.7	373.4	493.4	4282.0	17392.7	20545.3	19846.0
47.5°	110.9	133.5	178.8	267.1	346.3	316.8	396.1	3960.6	18003.8	21181.3	20319.0
50°	88.3	110.9	153.9	278.4	303.3	271.6	332.7	4012.7	18594.5	21504.9	20513.7
52.5°	74.7	97.3	133.5	219.5	233.1	237.6	292.0	4252.6	19357.2	21851.2	20900.7
55°	65.6	86.0	113.2	153.9	181.1	212.7	267.1	4426.8	20377.9	22593.5	21753.9
57.5°	52.1	74.7	101.8	131.3	149.4	185.6	246.7	4440.4	21301.3	23546.4	22887.8
59°	47.5	67.9	95.1	124.5	133.5	167.5	233.1	4325.0	21335.2	23688.9	23408.3
60°	43.0	65.6	90.5	115.4	126.7	158.4	221.8	4191.4	21027.4	23462.6	23623.3
62.5°	36.2	56.6	79.2	92.8	108.6	131.3	192.4	3707.1	19536.0	22437.4	23225.0
65°	31.7	49.8	67.9	76.9	90.5	113.2	169.7	2967.1	17888.3	21047.8	22084.3
67.5°	29.4	45.3	58.8	65.6	79.2	104.1	151.6	2095.7	15754.1	19284.7	20371.1
70°	27.2	43.0	52.1	61.1	70.2	88.3	129.0	1222.1	12135.3	16193.2	17340.7
72.5°	27.2	40.7	45.3	52.1	61.1	79.2	119.9	660.9	8296.9	12352.6	13835.0
75°	27.2	38.5	40.7	45.3	54.3	72.4	106.4	346.3	5363.8	8582.1	10591.8
77.5°	27.2	36.2	40.7	43.0	52.1	63.4	92.8	217.3	3573.6	6011.1	7158.5
80°	29.4	36.2	38.5	43.0	49.8	58.8	76.9	144.8	2100.3	3616.6	4356.7
82.5°	31.7	36.2	40.7	45.3	52.1	56.6	67.9	90.5	968.7	2392.2	2706.8
85°	33.9	38.5	43.0	47.5	54.3	56.6	63.4	65.6	158.4	1079.5	1459.8
87.5°	36.2	40.7	45.3	49.8	58.8	58.8	58.8	58.8	54.3	115.4	294.2
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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CATALOG NUMBER: GALN-SA9A-740-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9840.4	9840.4	9840.4	9840.4	9840.4	9840.4	9840.4	9840.4	9840.4	9840.4
2.5°	11103.3	11359.0	11537.8	11583.1	11454.1	11395.2	11232.3	10978.8	10824.9	10818.1
5°	11700.8	12300.5	12716.9	12787.1	12538.1	12117.2	11617.0	10972.0	10594.0	10480.9
7.5°	11598.9	12649.0	13318.9	13416.3	12997.6	12194.1	11225.5	10186.7	9774.8	9600.5
10°	11180.2	12461.2	13418.5	13572.4	13013.4	11881.8	10650.6	9491.9	8980.4	8846.9
12.5°	10822.6	12117.2	12968.1	13180.9	12757.7	11628.3	10306.6	9046.0	8498.3	8373.8
15°	10666.5	11709.8	12230.3	12339.0	12268.8	11469.9	10270.4	8978.1	8351.2	8215.4
17.5°	10822.6	11363.5	11429.2	11540.1	11696.2	11454.1	10618.9	9347.0	8670.3	8502.8
20°	11232.3	11062.5	10790.9	10838.5	11196.1	11519.7	11239.1	10164.0	9340.2	9161.4
22.5°	11929.3	10987.8	10372.3	10331.5	10784.2	11739.2	12148.9	11270.7	10315.7	10139.1
25°	12784.8	11175.7	10218.4	10130.1	10623.5	12060.6	13137.9	12626.4	11583.1	11313.7
27.5°	13717.3	11565.0	10218.4	10132.4	10609.9	12345.8	13984.3	13825.9	12895.7	12601.5
30°	14228.8	11886.3	10365.5	10268.1	10777.4	12511.0	14437.0	14891.9	13882.5	13518.1
32.5°	14685.9	12332.2	10652.9	10469.6	11128.2	12755.4	14842.1	15797.1	14667.8	14423.4
35°	15106.9	12809.7	11049.0	10836.2	11589.9	13090.4	15290.2	16747.7	15760.9	15392.0
37.5°	15570.8	13364.2	11666.8	11485.7	12361.6	13742.2	15822.0	17997.0	16836.0	16372.0
40°	16075.5	14007.0	12683.0	12606.0	13588.3	14480.0	16494.2	19330.0	18062.6	17535.3
42.5°	16589.3	14747.0	13927.7	14054.5	14977.9	15514.2	17184.5	20355.2	19067.5	18485.8
45°	17055.5	15693.0	15545.9	16172.8	16598.3	16523.6	17696.0	21077.2	19943.3	19386.6
47.5°	17643.9	17071.3	17503.6	18470.0	18481.3	17621.3	18083.0	21667.9	20697.0	20140.2
50°	18302.5	18698.6	20031.6	21016.1	20751.3	18700.8	18535.6	22367.2	21475.5	21029.7
52.5°	19065.2	20520.5	22367.2	23460.4	22842.5	19877.7	19289.3	23123.1	22711.2	22283.5
55°	19952.4	21762.9	24696.1	25567.4	24945.0	21339.7	20434.5	24148.4	24107.6	23815.7
57.5°	20955.0	23075.6	26044.9	27224.1	26669.6	23055.2	22034.5	25114.8	24960.9	24797.9
59°	21747.1	23750.0	26640.2	27862.3	27527.3	24257.0	23109.6	25716.8	25157.8	24913.3
60°	22226.9	24207.2	26859.7	27948.3	27871.3	24972.2	23790.8	26011.0	25155.5	24816.0
62.5°	23650.5	25006.1	26775.9	27565.8	27866.8	26343.7	25789.2	26334.6	24689.3	24191.4
65°	24157.4	24741.3	25388.6	25291.3	25549.3	26273.5	27065.6	25979.3	23693.5	22985.1
67.5°	23170.7	21837.6	22066.2	21416.7	21289.9	23358.5	26547.4	24241.2	21744.8	20878.0
70°	19531.4	16729.6	16614.2	16912.9	16093.6	18911.3	23838.3	20893.9	18528.8	17546.6
72.5°	15373.9	11823.0	10849.8	11949.7	11924.8	14427.9	19803.0	14826.2	12517.8	12434.0
75°	12090.0	8231.3	7224.1	7402.9	7746.9	10444.7	15772.3	9414.9	7708.5	7025.0
77.5°	8115.8	5832.3	5440.7	5221.2	5592.4	6705.9	9978.5	5105.8	4322.7	4094.1
80°	4678.0	4236.7	4811.6	4368.0	4567.1	4225.4	4963.2	2342.4	1944.1	2104.8
82.5°	3044.0	2412.6	2571.0	1910.1	2611.7	2634.4	1593.3	692.5	586.2	622.4
85°	1903.4	1131.6	636.0	452.6	900.8	1656.7	497.9	43.0	49.8	43.0
87.5°	493.4	187.8	79.2	117.7	144.8	129.0	115.4	6.8	2.3	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)