

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: P459310

Luminaire Tested: **GALN-SA7D-735-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459310
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-SA7D-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA 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: 36047 lumens
Efficiency: N/A
Efficacy: 83.2 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

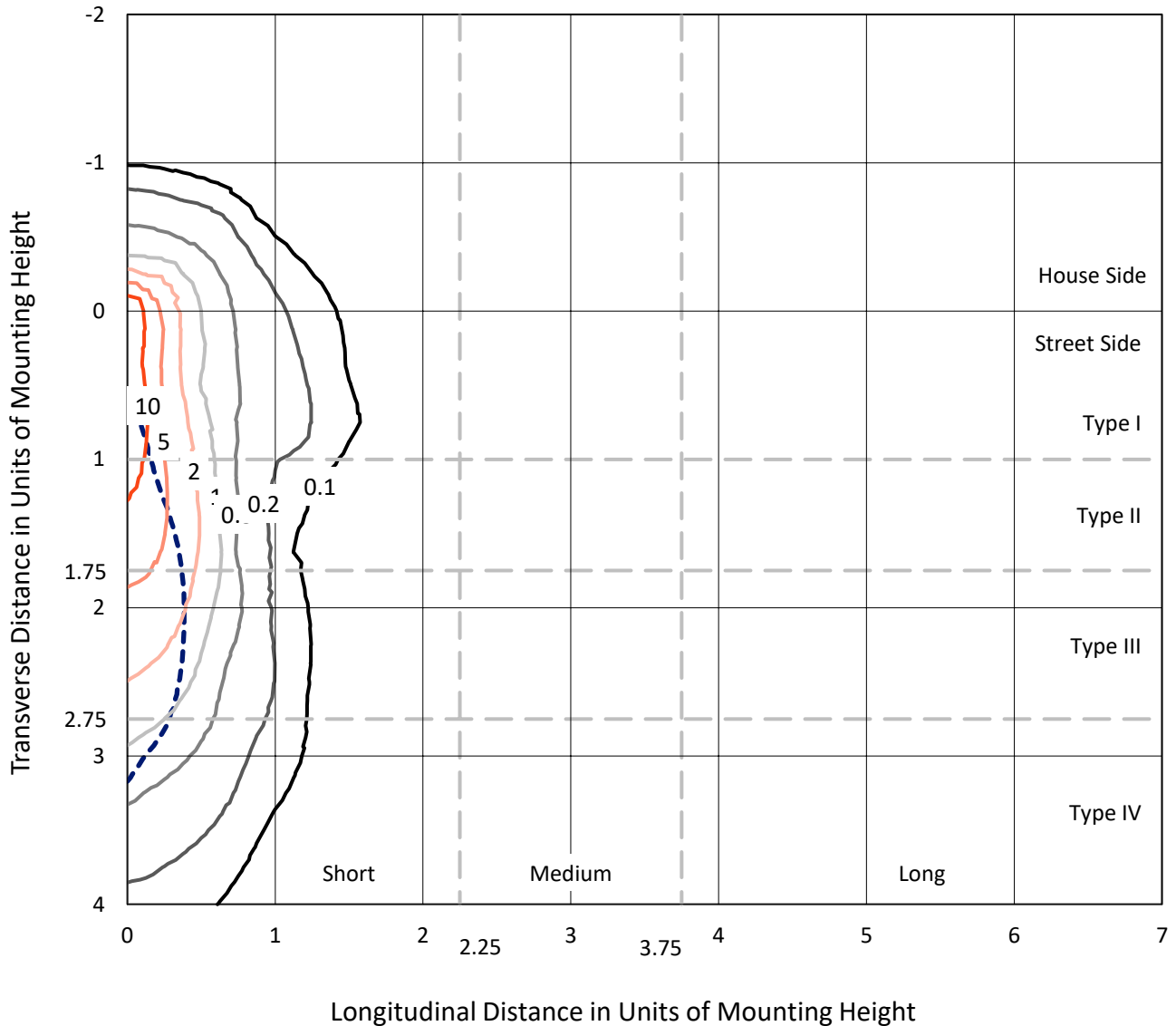
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

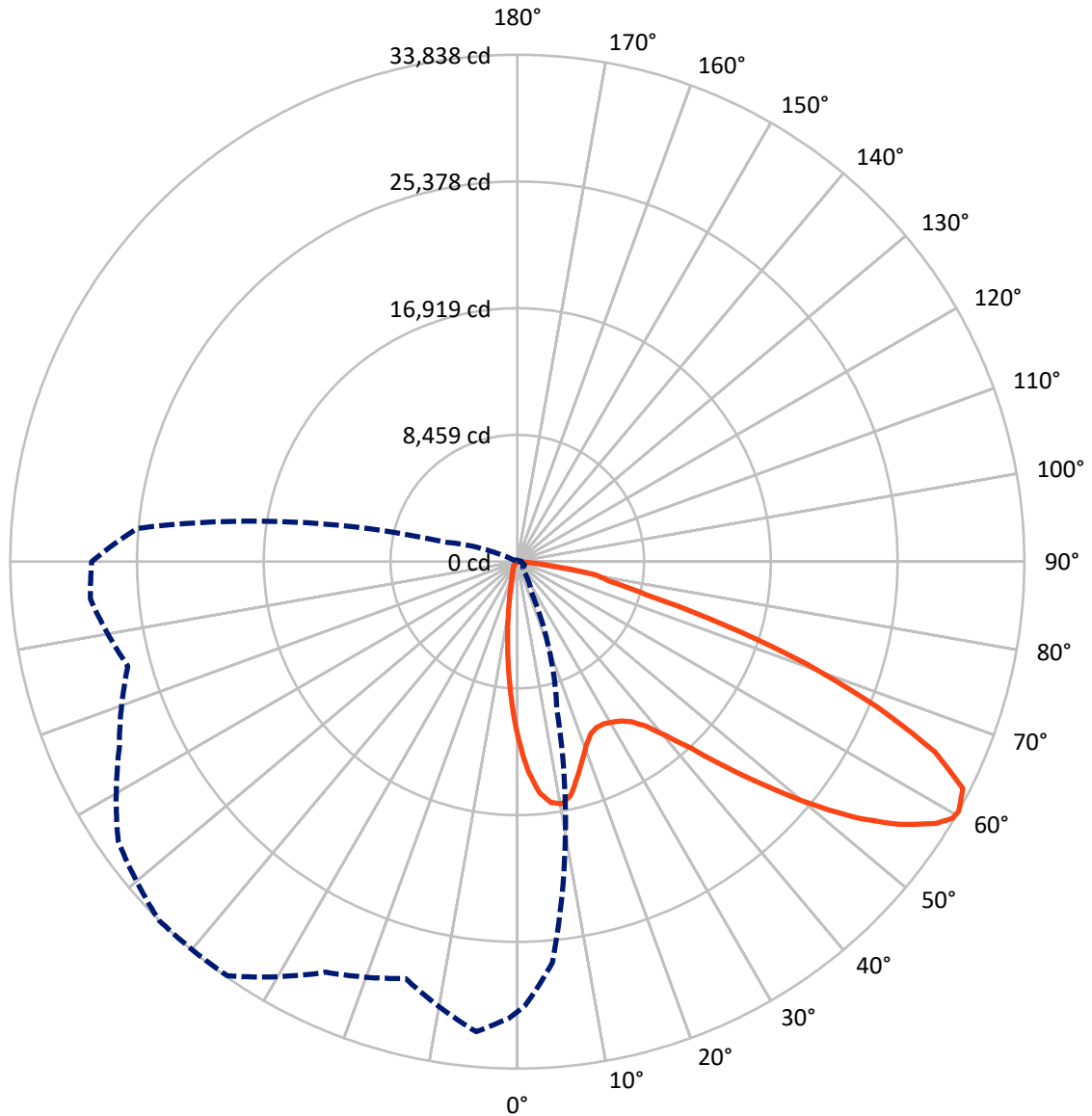
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 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	4446.0	0.0	4446.0
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	31601.0	0.0	31601.0
	% Fixture	87.7	0.0	87.7
Total	Lumens	36047.0	0.0	36047.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	886.1	2.5
10°-20°	1759.9	4.9
20°-30°	2580.4	7.2
30°-40°	3837.5	10.6
40°-50°	5584.8	15.5
50°-60°	8053.7	22.3
60°-70°	8858.3	24.6
70°-80°	3967.8	11.0
80°-90°	518.4	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°	36047.0	100.0
0°-180°	36047.0	100.0



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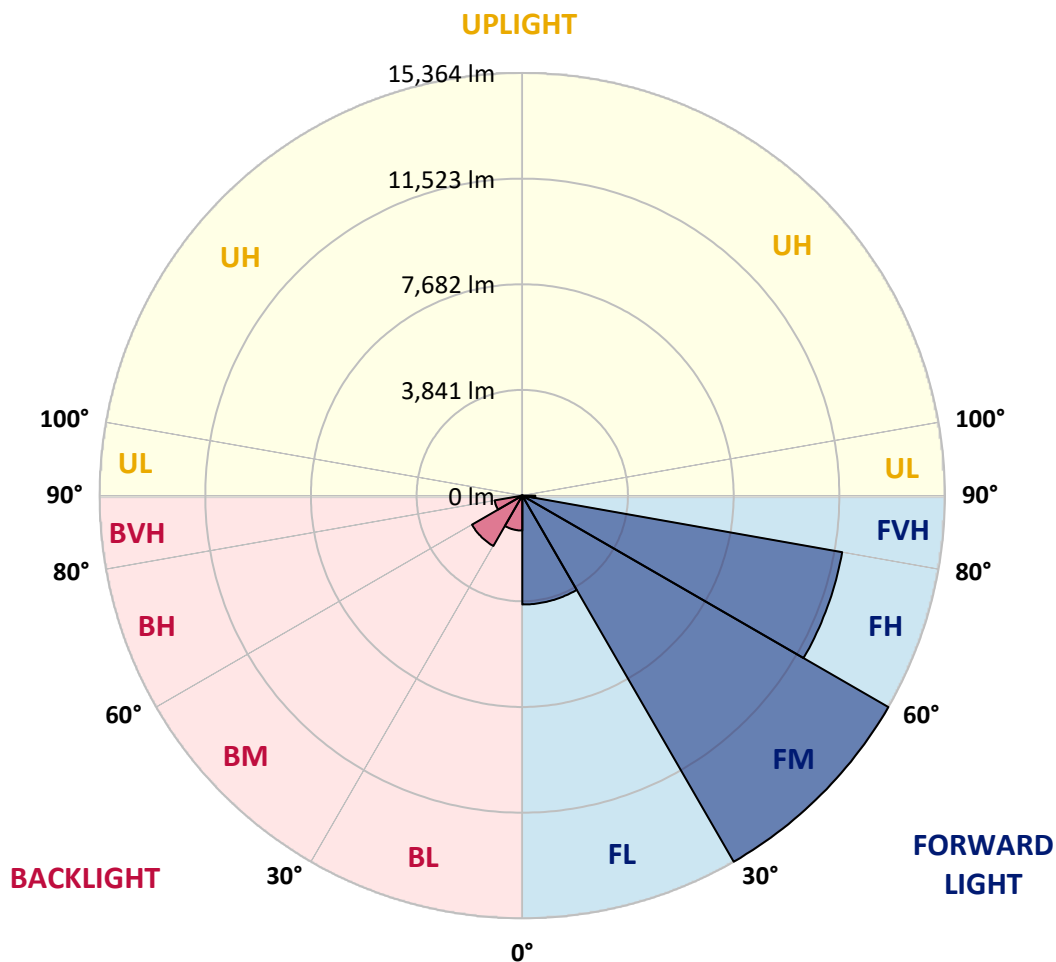
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3956.0	11.0			
FM	(30°-60°)	15364.3	42.6			
FH	(60°-80°)	11806.5	32.8			G4/12000
FVH	(80°-90°)	474.1	1.3			G3/500
BL	(0°-30°)	1270.4	3.5	B3/2500		
BM	(30°-60°)	2111.8	5.9	B2/2500		
BH	(60°-80°)	1019.6	2.8	B3/2500		G3/2500
BVH	(80°-90°)	44.3	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°	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0
2.5°	13097.8	13040.2	12908.7	12508.7	12160.7	11705.8	11245.5	10883.8	10661.8	10253.5	10067.2
5°	12689.5	12716.9	12336.0	11514.0	10598.8	9974.0	9291.8	8749.2	8151.9	7773.7	7376.4
7.5°	11623.6	11568.8	11155.0	10009.7	8897.2	7992.9	7129.8	6428.3	5987.2	5633.7	5337.8
10°	10711.1	10670.0	10141.2	8667.0	7472.3	6795.5	6211.9	5598.1	5124.0	4606.1	4192.4
12.5°	10138.4	10045.3	9437.0	7897.0	6924.3	6294.1	5658.4	5019.9	4365.0	3841.7	3340.2
15°	9946.6	9812.4	9135.6	7631.2	6573.6	5773.4	4976.1	4241.7	3488.2	2910.0	2531.9
17.5°	10294.6	10072.7	9352.0	7584.7	6154.3	5093.9	4112.9	3156.6	2372.9	1931.8	1698.9
20°	11092.0	10837.2	9900.1	7538.1	5688.5	4332.1	3126.5	2230.5	1641.3	1400.2	1271.4
22.5°	12275.7	11925.0	10711.1	7612.1	5258.3	3589.6	2257.9	1575.6	1304.3	1153.6	1063.2
25°	13697.9	13404.7	11738.7	7875.1	4918.5	3005.9	1745.5	1287.9	1098.8	1005.6	937.1
27.5°	15257.0	14788.4	13067.6	8190.2	4608.9	2553.8	1531.7	1150.9	978.2	893.3	857.7
30°	16366.7	16002.3	14180.1	8409.4	4222.5	2214.0	1400.2	1134.4	981.0	879.6	813.8
32.5°	17462.8	16997.0	15111.8	8510.8	3940.3	1978.4	1211.1	989.2	860.4	808.3	742.6
35°	18635.6	18147.8	16040.7	8456.0	3729.3	1822.2	1098.8	882.3	737.1	649.4	583.6
37.5°	19822.0	19306.9	16964.1	8258.7	3597.8	1759.2	1011.1	838.5	696.0	605.6	534.3
40°	21230.5	20542.7	17830.0	8097.1	3460.8	1726.3	953.6	811.1	665.8	569.9	498.7
42.5°	22381.3	21726.4	18649.3	8012.1	3367.6	1649.6	953.6	789.2	646.7	539.8	465.8
45°	23471.9	22792.3	19534.3	8080.6	3329.2	1553.6	964.5	786.4	633.0	517.9	443.9
47.5°	24384.3	23795.2	20444.0	8338.2	3279.9	1449.5	907.0	824.8	624.7	498.7	422.0
50°	25461.2	24891.3	21647.0	8858.8	3192.2	1345.4	835.7	887.8	622.0	482.3	402.8
52.5°	26979.2	26362.7	23307.5	9450.7	3052.5	1186.5	770.0	879.6	611.0	454.9	383.6
55°	28834.3	28335.6	25231.0	10160.4	2860.7	1008.4	665.8	780.9	578.2	408.3	350.7
57.5°	30023.5	29598.8	26672.3	10467.3	2567.5	824.8	586.4	654.9	528.8	364.4	312.4
59°	30163.3	29779.6	26973.8	10365.9	2375.7	753.5	548.0	561.7	515.1	339.8	290.5
60°	30045.4	29648.1	26853.2	10168.6	2197.6	704.2	515.1	498.7	517.9	326.1	274.0
62.5°	29289.2	28609.6	25683.2	9168.4	1920.8	646.7	457.6	408.3	457.6	293.2	243.9
65°	27828.7	26809.3	23367.8	7760.0	1811.2	613.8	389.1	342.5	348.0	257.6	211.0
67.5°	25277.6	23992.5	20285.1	6305.0	1764.6	616.5	328.8	306.9	268.5	219.2	186.3
70°	21244.2	19961.8	16276.3	5187.1	1742.7	616.5	279.5	263.1	224.7	183.6	161.7
72.5°	15054.2	13673.2	10979.7	4074.6	1570.1	613.8	238.4	238.4	183.6	153.4	131.5
75°	8505.3	8516.3	6902.4	2882.6	1304.3	506.9	191.8	189.1	134.3	117.8	98.6
77.5°	4956.9	4869.2	4652.7	1238.5	605.6	230.2	134.3	115.1	93.2	84.9	71.2
80°	2548.3	2096.2	2041.4	449.4	216.5	145.2	93.2	65.8	60.3	54.8	49.3
82.5°	753.5	756.3	674.1	180.8	120.6	95.9	46.6	35.6	32.9	30.1	30.1
85°	52.1	32.9	38.4	54.8	74.0	38.4	2.7	8.2	8.2	11.0	13.7
87.5°	5.5	2.7	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°	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0
2.5°	9861.7	9982.3	9757.6	9763.1	9576.7	9637.0	9417.8	9489.0	9360.3	9458.9	9749.4
5°	7420.2	7447.7	7266.8	7209.3	7236.7	7349.0	7392.8	7192.8	7277.8	7110.6	7099.7
7.5°	5228.2	5261.0	5156.9	5143.2	5340.5	5293.9	5378.9	5173.3	4978.8	5063.7	4907.6
10°	4060.9	3923.9	3710.1	3649.8	3611.5	3636.1	3636.1	3449.8	3422.4	3348.4	3460.8
12.5°	3205.9	3038.8	2836.0	2562.0	2493.5	2488.0	2386.6	2222.2	2170.2	2107.2	2200.3
15°	2329.1	2260.6	2090.7	1937.3	1781.1	1750.9	1586.5	1452.3	1274.2	1249.5	1241.3
17.5°	1638.6	1537.2	1534.5	1446.8	1356.4	1296.1	1142.6	989.2	920.7	912.5	912.5
20°	1227.6	1192.0	1134.4	1123.4	1096.0	1027.5	890.5	808.3	775.5	778.2	789.2
22.5°	1033.0	1008.4	956.3	931.6	920.7	860.4	759.0	704.2	687.8	687.8	690.5
25°	923.4	901.5	844.0	805.6	791.9	748.1	668.6	627.5	613.8	613.8	613.8
27.5°	841.2	813.8	753.5	720.7	696.0	646.7	597.3	556.2	542.5	542.5	545.3
30°	783.7	753.5	698.7	654.9	616.5	572.7	531.6	496.0	479.5	476.8	479.5
32.5°	707.0	679.6	624.7	597.3	553.5	501.4	468.6	435.7	419.2	422.0	419.2
35°	550.8	542.5	504.2	512.4	487.7	443.9	413.8	378.1	359.0	356.2	361.7
37.5°	501.4	468.6	424.7	427.5	419.2	402.8	353.5	315.1	301.4	301.4	304.2
40°	463.1	430.2	380.9	356.2	359.0	359.0	306.9	265.8	252.1	249.4	254.8
42.5°	430.2	397.3	342.5	301.4	290.5	304.2	260.3	219.2	205.5	200.0	205.5
45°	408.3	372.7	309.6	263.1	230.2	246.6	213.7	180.8	164.4	164.4	161.7
47.5°	386.4	353.5	285.0	227.4	191.8	183.6	175.4	145.2	128.8	126.0	128.8
50°	367.2	334.3	257.6	197.3	161.7	142.5	142.5	115.1	104.1	98.6	101.4
52.5°	348.0	312.4	232.9	175.4	139.7	115.1	101.4	93.2	84.9	82.2	84.9
55°	320.6	285.0	208.2	150.7	120.6	95.9	79.5	76.7	71.2	65.8	71.2
57.5°	287.7	254.8	183.6	128.8	95.9	74.0	65.8	63.0	57.5	54.8	54.8
59°	268.5	238.4	169.9	112.3	84.9	65.8	60.3	57.5	52.1	46.6	49.3
60°	257.6	232.9	161.7	104.1	76.7	60.3	54.8	52.1	46.6	43.8	46.6
62.5°	227.4	208.2	142.5	84.9	60.3	43.8	38.4	41.1	38.4	35.6	38.4
65°	200.0	183.6	120.6	65.8	46.6	30.1	27.4	35.6	32.9	30.1	32.9
67.5°	178.1	158.9	101.4	49.3	32.9	16.4	19.2	30.1	30.1	27.4	30.1
70°	153.4	137.0	82.2	35.6	16.4	8.2	13.7	21.9	27.4	24.7	27.4
72.5°	126.0	106.9	63.0	24.7	8.2	0.0	8.2	19.2	27.4	24.7	27.4
75°	98.6	79.5	46.6	13.7	0.0	0.0	2.7	16.4	27.4	24.7	27.4
77.5°	71.2	57.5	27.4	2.7	0.0	0.0	2.7	16.4	27.4	24.7	27.4
80°	46.6	41.1	11.0	0.0	0.0	0.0	2.7	16.4	27.4	27.4	30.1
82.5°	30.1	21.9	0.0	0.0	0.0	0.0	5.5	21.9	30.1	32.9	32.9
85°	13.7	0.0	0.0	0.0	0.0	0.0	11.0	27.4	35.6	35.6	35.6
87.5°	0.0	0.0	0.0	0.0	0.0	5.5	19.2	32.9	41.1	41.1	41.1
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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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0
2.5°	9798.7	9971.3	10215.2	10590.6	10894.7	11374.2	11741.4	12242.9	12749.8	12903.2	13141.6
5°	7212.0	7433.9	7987.5	8491.6	8809.5	9823.3	10464.5	11475.6	12382.6	12818.3	13292.3
7.5°	5008.9	5272.0	5694.0	6398.2	7066.8	7891.6	8927.3	10083.6	11412.6	12034.6	12703.2
10°	3515.6	3844.4	4439.0	5017.2	5858.4	6642.1	7664.1	8941.0	10407.0	11141.3	11979.8
12.5°	2219.5	2512.7	3299.1	3948.5	4998.0	5907.7	6850.3	8006.6	9705.5	10459.0	11338.6
15°	1268.7	1515.3	1882.5	2715.5	3880.0	5082.9	6258.4	7601.1	9346.6	10275.5	11226.3
17.5°	945.3	1011.1	1175.5	1646.8	2707.2	4112.9	5713.2	7477.8	9590.4	10681.0	11766.1
20°	794.6	838.5	915.2	1101.5	1726.3	3167.6	5181.6	7499.7	10379.6	11749.6	12779.9
22.5°	712.4	739.8	802.9	923.4	1178.3	2307.2	4559.6	7628.5	11335.9	13062.2	14251.4
25°	624.7	660.4	715.2	819.3	981.0	1600.2	3945.8	7916.2	12675.8	14728.2	15846.1
27.5°	556.2	589.1	643.9	739.8	860.4	1222.1	3230.6	8162.8	14089.7	16405.1	17320.3
30°	487.7	520.6	575.4	652.1	761.8	989.2	2460.6	8308.0	15462.5	17662.8	18367.0
32.5°	430.2	457.6	509.7	578.2	668.6	838.5	1940.0	8157.3	16512.0	18805.5	19276.8
35°	372.7	405.5	449.4	512.4	591.9	715.2	1613.9	7636.7	17413.5	19981.0	20150.9
37.5°	312.4	350.7	397.3	454.9	517.9	657.6	1296.1	7061.3	18378.0	21446.9	21167.4
40°	263.1	298.7	342.5	405.5	463.1	602.8	997.4	6447.5	19419.2	22822.5	22277.2
42.5°	213.7	252.1	304.2	361.7	457.6	526.1	772.7	5811.8	20353.6	24019.9	23280.1
45°	169.9	202.8	257.6	331.6	454.9	452.1	597.3	5184.3	21057.8	24874.8	24028.1
47.5°	134.3	161.7	216.5	323.3	419.2	383.6	479.5	4795.2	21797.7	25644.8	24600.8
50°	106.9	134.3	186.3	337.0	367.2	328.8	402.8	4858.2	22512.8	26036.6	24836.5
52.5°	90.4	117.8	161.7	265.8	282.2	287.7	353.5	5148.7	23436.3	26455.9	25305.0
55°	79.5	104.1	137.0	186.3	219.2	257.6	323.3	5359.7	24672.1	27354.6	26338.0
57.5°	63.0	90.4	123.3	158.9	180.8	224.7	298.7	5376.1	25790.0	28508.2	27710.8
59°	57.5	82.2	115.1	150.7	161.7	202.8	282.2	5236.4	25831.1	28680.9	28341.1
60°	52.1	79.5	109.6	139.7	153.4	191.8	268.5	5074.7	25458.5	28406.8	28601.4
62.5°	43.8	68.5	95.9	112.3	131.5	158.9	232.9	4488.3	23652.7	27165.6	28119.1
65°	38.4	60.3	82.2	93.2	109.6	137.0	205.5	3592.3	21657.9	25483.1	26738.1
67.5°	35.6	54.8	71.2	79.5	95.9	126.0	183.6	2537.4	19074.0	23348.6	24663.8
70°	32.9	52.1	63.0	74.0	84.9	106.9	156.2	1479.7	14692.5	19605.6	20994.8
72.5°	32.9	49.3	54.8	63.0	74.0	95.9	145.2	800.1	10045.3	14955.6	16750.4
75°	32.9	46.6	49.3	54.8	65.8	87.7	128.8	419.2	6494.1	10390.5	12823.8
77.5°	32.9	43.8	49.3	52.1	63.0	76.7	112.3	263.1	4326.7	7277.8	8667.0
80°	35.6	43.8	46.6	52.1	60.3	71.2	93.2	175.4	2542.8	4378.7	5274.7
82.5°	38.4	43.8	49.3	54.8	63.0	68.5	82.2	109.6	1172.8	2896.3	3277.2
85°	41.1	46.6	52.1	57.5	65.8	68.5	76.7	79.5	191.8	1307.0	1767.4
87.5°	43.8	49.3	54.8	60.3	71.2	71.2	71.2	71.2	65.8	139.7	356.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P459310

CATALOG NUMBER: GALN-SA7D-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0
2.5°	13443.0	13752.7	13969.1	14023.9	13867.8	13796.5	13599.2	13292.3	13106.0	13097.8
5°	14166.4	14892.6	15396.7	15481.7	15180.3	14670.6	14065.0	13284.1	12826.5	12689.5
7.5°	14043.1	15314.5	16125.6	16243.4	15736.5	14763.8	13591.0	12333.3	11834.6	11623.6
10°	13536.2	15087.1	16246.2	16432.5	15755.7	14385.6	12895.0	11492.1	10872.8	10711.1
12.5°	13103.3	14670.6	15700.9	15958.5	15446.1	14078.7	12478.5	10952.3	10289.2	10138.4
15°	12914.2	14177.4	14807.6	14939.1	14854.2	13886.9	12434.7	10870.1	10111.0	9946.6
17.5°	13103.3	13758.2	13837.6	13971.9	14160.9	13867.8	12856.7	11316.7	10497.4	10294.6
20°	13599.2	13393.7	13064.9	13122.4	13555.4	13947.2	13607.4	12305.9	11308.5	11092.0
22.5°	14443.2	13303.3	12558.0	12508.7	13056.7	14213.0	14709.0	13645.8	12489.5	12275.7
25°	15478.9	13530.7	12371.6	12264.8	12862.1	14602.1	15906.4	15287.1	14023.9	13697.9
27.5°	16607.9	14002.0	12371.6	12267.5	12845.7	14947.4	16931.2	16739.4	15613.2	15257.0
30°	17227.1	14391.1	12549.8	12431.9	13048.5	15147.4	17479.2	18030.0	16807.9	16366.7
32.5°	17780.6	14930.9	12897.8	12675.8	13473.2	15443.3	17969.7	19126.0	17758.7	17462.8
35°	18290.3	15509.1	13377.3	13119.7	14032.2	15848.9	18512.3	20276.9	19082.2	18635.6
37.5°	18852.0	16180.4	14125.3	13906.1	14966.5	16638.0	19156.2	21789.4	20383.8	19822.0
40°	19463.1	16958.6	15355.6	15262.5	16451.7	17531.3	19970.0	23403.4	21868.9	21230.5
42.5°	20085.1	17854.6	16862.7	17016.2	18134.1	18783.5	20805.7	24644.7	23085.5	22381.3
45°	20649.6	19000.0	18821.9	19580.9	20096.1	20005.6	21425.0	25518.8	24146.0	23471.9
47.5°	21362.0	20668.7	21192.1	22362.1	22375.8	21334.6	21893.6	26233.9	25058.4	24384.3
50°	22159.4	22638.9	24252.8	25444.8	25124.2	22641.6	22441.6	27080.6	26001.0	25461.2
52.5°	23082.8	24844.7	27080.6	28404.1	27656.0	24066.5	23354.1	27995.8	27497.1	26979.2
55°	24156.9	26349.0	29900.2	30955.2	30201.6	25836.6	24740.6	29237.1	29187.8	28834.3
57.5°	25370.8	27938.3	31533.3	32960.9	32289.6	27913.6	26677.8	30407.1	30220.8	30023.5
59°	26329.8	28754.8	32254.0	33733.6	33328.1	29368.6	27979.4	31136.0	30459.2	30163.3
60°	26910.7	29308.3	32519.8	33837.8	33744.6	30234.5	28804.2	31492.2	30456.5	30045.4
62.5°	28634.3	30275.6	32418.4	33374.7	33739.1	31895.0	31223.7	31884.1	29892.0	29289.2
65°	29248.1	29955.0	30738.7	30620.9	30933.2	31810.1	32769.1	31453.9	28686.3	27828.7
67.5°	28053.4	26439.4	26716.2	25929.8	25776.3	28280.8	32141.6	29349.4	26327.1	25277.6
70°	23647.2	20255.0	20115.2	20476.9	19485.0	22896.5	28861.7	25296.8	22433.4	21244.2
72.5°	18613.6	14314.4	13136.1	14467.8	14437.7	17468.3	23976.1	17950.5	15155.6	15054.2
75°	14637.7	9965.8	8746.5	8962.9	9379.4	12645.7	19095.9	11398.9	9332.9	8505.3
77.5°	9826.1	7061.3	6587.3	6321.5	6770.8	8119.0	12081.2	6181.7	5233.6	4956.9
80°	5663.8	5129.5	5825.5	5288.4	5529.6	5115.8	6009.1	2836.0	2353.8	2548.3
82.5°	3685.5	2921.0	3112.8	2312.7	3162.1	3189.5	1929.0	838.5	709.7	753.5
85°	2304.4	1370.1	770.0	548.0	1090.6	2005.8	602.8	52.1	60.3	52.1
87.5°	597.3	227.4	95.9	142.5	175.4	156.2	139.7	8.2	2.7	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)