

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: P458121

Luminaire Tested: **GALN-SA9C-730-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458121
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-SA9C-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA 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: 41685 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 481
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

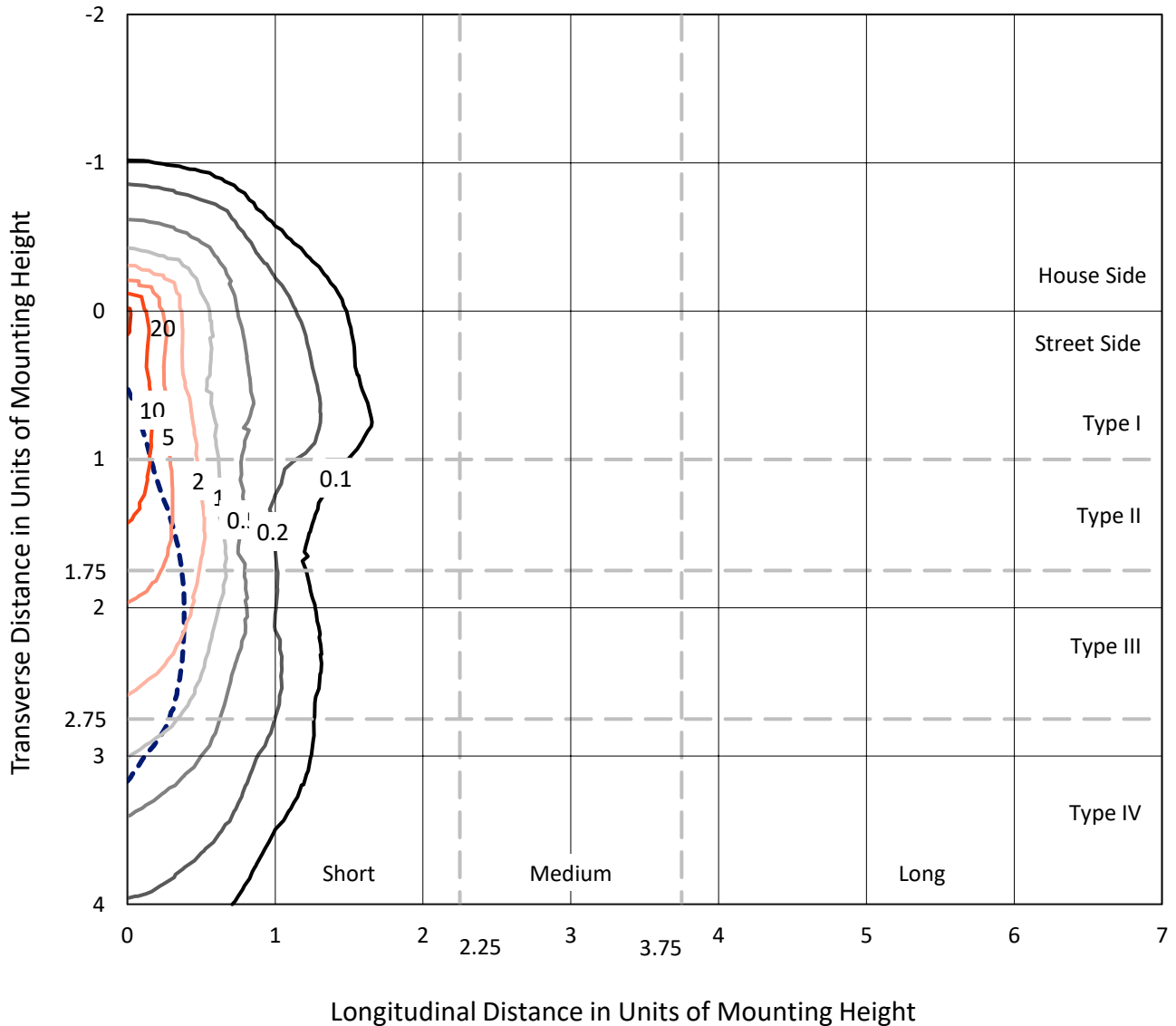




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Iso-Footcandle Lines of Horizontal Illumination

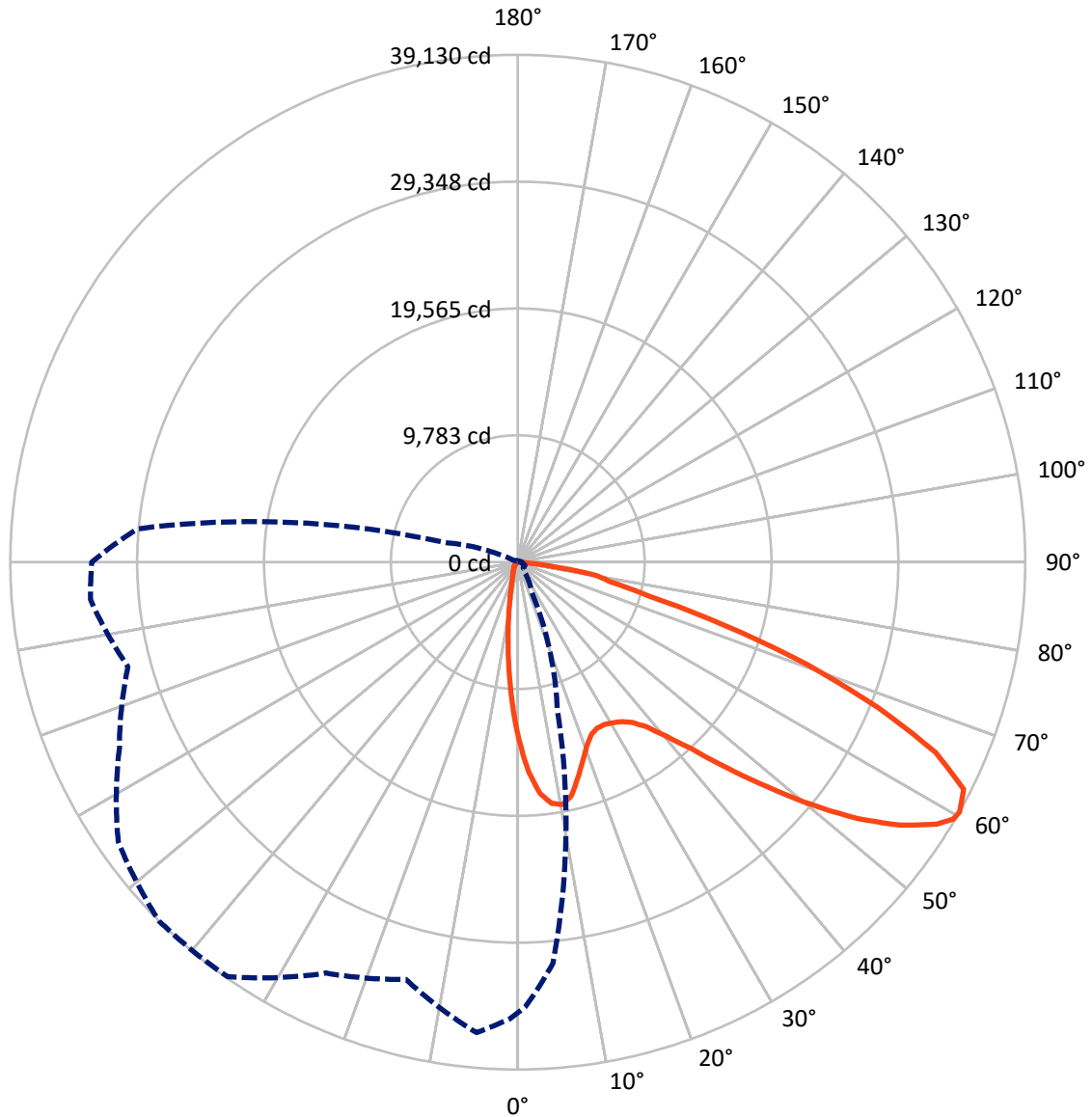
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22 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	5141.4	0.0	5141.4
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	36543.6	0.0	36543.6
	% Fixture	87.7	0.0	87.7
Total	Lumens	41685.0	0.0	41685.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1024.7	2.5
10°-20°	2035.1	4.9
20°-30°	2984.0	7.2
30°-40°	4437.8	10.6
40°-50°	6458.3	15.5
50°-60°	9313.4	22.3
60°-70°	10243.8	24.6
70°-80°	4588.4	11.0
80°-90°	599.5	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°	41685.0	100.0
0°-180°	41685.0	100.0

Coefficient of Utilization



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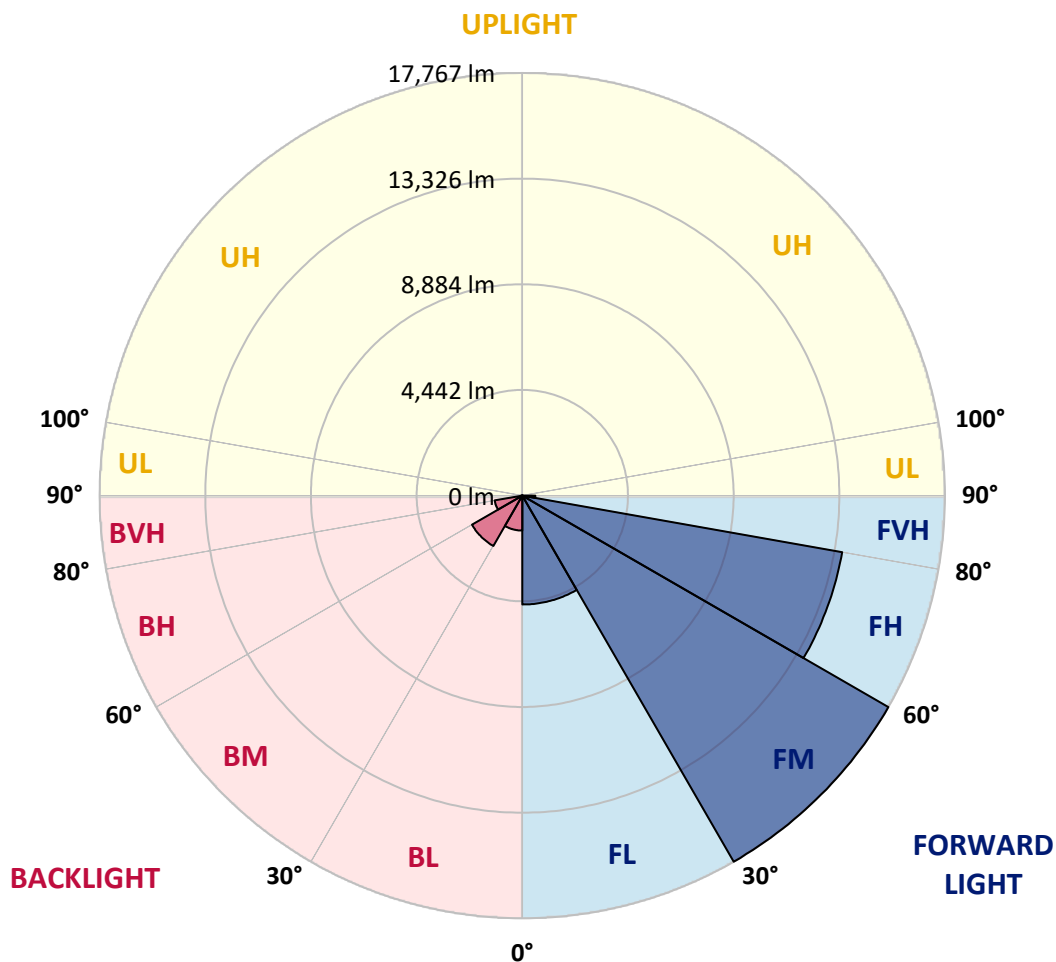
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4574.8	11.0			
FM	(30°-60°)	17767.4	42.6			
FH	(60°-80°)	13653.1	32.8			G5
FVH	(80°-90°)	548.3	1.3			G4/750
BL	(0°-30°)	1469.1	3.5	B3/2500		
BM	(30°-60°)	2442.1	5.9	B2/2500		
BH	(60°-80°)	1179.1	2.8	B3/2500		G3/2500
BVH	(80°-90°)	51.2	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13777.5	13777.5	13777.5	13777.5	13777.5	13777.5	13777.5	13777.5	13777.5	13777.5	13777.5
2.5°	15146.4	15079.8	14927.7	14465.1	14062.7	13536.7	13004.3	12586.1	12329.4	11857.3	11641.8
5°	14674.2	14705.9	14265.5	13314.9	12256.5	11534.1	10745.0	10117.6	9426.9	8989.6	8530.1
7.5°	13441.6	13378.2	12899.8	11575.2	10288.8	9243.1	8244.9	7433.8	6923.6	6514.8	6172.6
10°	12386.4	12338.9	11727.3	10022.6	8641.0	7858.4	7183.4	6473.6	5925.5	5326.6	4848.1
12.5°	11724.2	11616.4	10913.0	9132.2	8007.3	7278.5	6543.4	5805.1	5047.7	4442.5	3862.6
15°	11502.4	11347.1	10564.4	8824.8	7601.7	6676.4	5754.4	4905.1	4033.7	3365.2	2927.9
17.5°	11904.8	11648.1	10814.8	8770.9	7116.9	5890.6	4756.2	3650.3	2744.1	2233.9	1964.6
20°	12826.9	12532.2	11448.5	8717.1	6578.2	5009.7	3615.5	2579.3	1898.0	1619.2	1470.3
22.5°	14195.8	13790.2	12386.4	8802.6	6080.7	4151.0	2611.0	1822.0	1508.3	1334.0	1229.5
25°	15840.3	15501.3	13574.7	9106.8	5687.8	3476.1	2018.5	1489.3	1270.6	1162.9	1083.7
27.5°	17643.3	17101.4	15111.5	9471.2	5329.7	2953.2	1771.3	1330.9	1131.2	1033.0	991.8
30°	18926.6	18505.2	16398.0	9724.7	4883.0	2560.3	1619.2	1311.8	1134.4	1017.2	941.1
32.5°	20194.1	19655.4	17475.4	9842.0	4556.6	2287.8	1400.6	1143.9	995.0	934.8	858.7
35°	21550.3	20986.3	18549.5	9778.6	4312.6	2107.2	1270.6	1020.3	852.4	751.0	674.9
37.5°	22922.3	22326.6	19617.4	9550.4	4160.5	2034.3	1169.2	969.6	804.8	700.3	617.9
40°	24551.1	23755.7	20618.7	9363.5	4002.1	1996.3	1102.7	937.9	770.0	659.1	576.7
42.5°	25881.9	25124.6	21566.1	9265.3	3894.3	1907.6	1102.7	912.6	747.8	624.2	538.7
45°	27143.0	26357.2	22589.6	9344.5	3850.0	1796.7	1115.4	909.4	732.0	598.9	513.3
47.5°	28198.2	27517.0	23641.6	9642.3	3792.9	1676.2	1048.8	953.8	722.5	576.7	488.0
50°	29443.5	28784.4	25032.7	10244.4	3691.5	1555.8	966.5	1026.7	719.3	557.7	465.8
52.5°	31199.0	30486.0	26952.9	10928.8	3529.9	1372.0	890.4	1017.2	706.6	526.0	443.6
55°	33344.2	32767.5	29177.3	11749.5	3308.1	1166.1	770.0	903.1	668.6	472.1	405.6
57.5°	34719.4	34228.2	30844.1	12104.4	2969.1	953.8	678.1	757.3	611.6	421.4	361.2
59°	34881.0	34437.4	31192.6	11987.2	2747.3	871.4	633.7	649.6	595.7	392.9	335.9
60°	34744.7	34285.3	31053.2	11759.0	2541.3	814.4	595.7	576.7	598.9	377.1	316.9
62.5°	33870.2	33084.4	29700.2	10602.5	2221.3	747.8	529.2	472.1	529.2	339.1	282.0
65°	32181.3	31002.5	27022.6	8973.7	2094.5	709.8	450.0	396.1	402.4	297.9	244.0
67.5°	29231.2	27745.1	23457.9	7291.2	2040.6	713.0	380.2	354.9	310.5	253.5	215.5
70°	24566.9	23083.9	18822.1	5998.3	2015.3	713.0	323.2	304.2	259.8	212.3	187.0
72.5°	17408.8	15811.8	12697.0	4711.9	1815.7	709.8	275.7	275.7	212.3	177.4	152.1
75°	9835.6	9848.3	7981.9	3333.5	1508.3	586.2	221.8	218.6	155.3	136.3	114.1
77.5°	5732.2	5630.8	5380.4	1432.3	700.3	266.2	155.3	133.1	107.7	98.2	82.4
80°	2946.9	2424.1	2360.7	519.7	250.3	167.9	107.7	76.0	69.7	63.4	57.0
82.5°	871.4	874.6	779.5	209.1	139.4	110.9	53.9	41.2	38.0	34.9	34.9
85°	60.2	38.0	44.4	63.4	85.6	44.4	3.2	9.5	9.5	12.7	15.8
87.5°	6.3	3.2	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°	13777.5	13777.5	13777.5	13777.5	13777.5	13777.5	13777.5	13777.5	13777.5	13777.5	13777.5
2.5°	11404.1	11543.6	11283.7	11290.1	11074.6	11144.3	10890.8	10973.2	10824.3	10938.3	11274.2
5°	8580.8	8612.5	8403.4	8336.8	8368.5	8498.4	8549.1	8317.8	8416.1	8222.8	8210.1
7.5°	6045.9	6083.9	5963.5	5947.6	6175.8	6121.9	6220.1	5982.5	5757.5	5855.7	5675.1
10°	4696.0	4537.6	4290.4	4220.7	4176.3	4204.9	4204.9	3989.4	3957.7	3872.1	4002.1
12.5°	3707.4	3514.1	3279.6	2962.7	2883.5	2877.2	2759.9	2569.8	2509.6	2436.7	2544.5
15°	2693.4	2614.2	2417.7	2240.3	2059.7	2024.8	1834.7	1679.4	1473.4	1444.9	1435.4
17.5°	1894.9	1777.6	1774.5	1673.1	1568.5	1498.8	1321.3	1143.9	1064.7	1055.2	1055.2
20°	1419.6	1378.4	1311.8	1299.2	1267.5	1188.3	1029.8	934.8	896.7	899.9	912.6
22.5°	1194.6	1166.1	1105.9	1077.4	1064.7	995.0	877.7	814.4	795.3	795.3	798.5
25°	1067.9	1042.5	976.0	931.6	915.8	865.1	773.2	725.6	709.8	709.8	709.8
27.5°	972.8	941.1	871.4	833.4	804.8	747.8	690.8	643.2	627.4	627.4	630.6
30°	906.2	871.4	808.0	757.3	713.0	662.3	614.7	573.5	554.5	551.4	554.5
32.5°	817.5	785.8	722.5	690.8	640.1	579.9	541.8	503.8	484.8	488.0	484.8
35°	636.9	627.4	583.0	592.5	564.0	513.3	478.5	437.3	415.1	411.9	418.3
37.5°	579.9	541.8	491.1	494.3	484.8	465.8	408.8	364.4	348.6	348.6	351.7
40°	535.5	497.5	440.4	411.9	415.1	415.1	354.9	307.4	291.5	288.4	294.7
42.5°	497.5	459.5	396.1	348.6	335.9	351.7	301.0	253.5	237.7	231.3	237.7
45°	472.1	430.9	358.1	304.2	266.2	285.2	247.2	209.1	190.1	190.1	187.0
47.5°	446.8	408.8	329.5	263.0	221.8	212.3	202.8	167.9	148.9	145.8	148.9
50°	424.6	386.6	297.9	228.1	187.0	164.8	164.8	133.1	120.4	114.1	117.2
52.5°	402.4	361.2	269.3	202.8	161.6	133.1	117.2	107.7	98.2	95.1	98.2
55°	370.7	329.5	240.8	174.3	139.4	110.9	91.9	88.7	82.4	76.0	82.4
57.5°	332.7	294.7	212.3	148.9	110.9	85.6	76.0	72.9	66.5	63.4	63.4
59°	310.5	275.7	196.5	129.9	98.2	76.0	69.7	66.5	60.2	53.9	57.0
60°	297.9	269.3	187.0	120.4	88.7	69.7	63.4	60.2	53.9	50.7	53.9
62.5°	263.0	240.8	164.8	98.2	69.7	50.7	44.4	47.5	44.4	41.2	44.4
65°	231.3	212.3	139.4	76.0	53.9	34.9	31.7	41.2	38.0	34.9	38.0
67.5°	206.0	183.8	117.2	57.0	38.0	19.0	22.2	34.9	34.9	31.7	34.9
70°	177.4	158.4	95.1	41.2	19.0	9.5	15.8	25.3	31.7	28.5	31.7
72.5°	145.8	123.6	72.9	28.5	9.5	0.0	9.5	22.2	31.7	28.5	31.7
75°	114.1	91.9	53.9	15.8	0.0	0.0	3.2	19.0	31.7	28.5	31.7
77.5°	82.4	66.5	31.7	3.2	0.0	0.0	3.2	19.0	31.7	28.5	31.7
80°	53.9	47.5	12.7	0.0	0.0	0.0	3.2	19.0	31.7	31.7	34.9
82.5°	34.9	25.3	0.0	0.0	0.0	0.0	6.3	25.3	34.9	38.0	38.0
85°	15.8	0.0	0.0	0.0	0.0	0.0	12.7	31.7	41.2	41.2	41.2
87.5°	0.0	0.0	0.0	0.0	0.0	6.3	22.2	38.0	47.5	47.5	47.5
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°	13777.5	13777.5	13777.5	13777.5	13777.5	13777.5	13777.5	13777.5	13777.5	13777.5	13777.5
2.5°	11331.3	11530.9	11812.9	12247.0	12598.7	13153.3	13577.9	14157.7	14743.9	14921.4	15197.1
5°	8340.0	8596.7	9236.7	9819.8	10187.4	11359.8	12101.2	13270.5	14319.3	14823.2	15371.3
7.5°	5792.4	6096.6	6584.5	7398.9	8172.1	9125.8	10323.6	11660.8	13197.6	13916.9	14690.1
10°	4065.4	4445.7	5133.3	5801.9	6774.7	7680.9	8862.8	10339.5	12034.7	12883.9	13853.5
12.5°	2566.6	2905.7	3815.1	4566.1	5779.7	6831.7	7921.7	9258.9	11223.5	12094.9	13112.1
15°	1467.1	1752.3	2176.9	3140.2	4486.9	5877.9	7237.3	8790.0	10808.4	11882.6	12982.1
17.5°	1093.2	1169.2	1359.4	1904.4	3130.7	4756.2	6606.7	8647.4	11090.4	12351.6	13606.4
20°	918.9	969.6	1058.3	1273.8	1996.3	3663.0	5992.0	8672.7	12003.0	13587.4	14778.8
22.5°	823.9	855.5	928.4	1067.9	1362.5	2668.0	5272.7	8821.6	13108.9	15105.2	16480.4
25°	722.5	763.7	827.0	947.4	1134.4	1850.5	4562.9	9154.4	14658.4	17031.7	18324.6
27.5°	643.2	681.3	744.6	855.5	995.0	1413.2	3735.9	9439.5	16293.4	18971.0	20029.3
30°	564.0	602.1	665.4	754.1	880.9	1143.9	2845.5	9607.5	17880.9	20425.4	21239.8
32.5°	497.5	529.2	589.4	668.6	773.2	969.6	2243.4	9433.2	19094.6	21746.8	22291.8
35°	430.9	469.0	519.7	592.5	684.4	827.0	1866.4	8831.2	20137.1	23106.1	23302.6
37.5°	361.2	405.6	459.5	526.0	598.9	760.5	1498.8	8165.7	21252.4	24801.4	24478.2
40°	304.2	345.4	396.1	469.0	535.5	697.1	1153.4	7455.9	22456.5	26392.1	25761.5
42.5°	247.2	291.5	351.7	418.3	529.2	608.4	893.6	6720.8	23537.1	27776.8	26921.2
45°	196.5	234.5	297.9	383.4	526.0	522.8	690.8	5995.2	24351.4	28765.4	27786.3
47.5°	155.3	187.0	250.3	373.9	484.8	443.6	554.5	5545.2	25207.0	29655.8	28448.5
50°	123.6	155.3	215.5	389.7	424.6	380.2	465.8	5618.1	26034.0	30108.9	28721.1
52.5°	104.6	136.3	187.0	307.4	326.4	332.7	408.8	5954.0	27101.9	30593.8	29262.9
55°	91.9	120.4	158.4	215.5	253.5	297.9	373.9	6198.0	28530.9	31633.1	30457.5
57.5°	72.9	104.6	142.6	183.8	209.1	259.8	345.4	6217.0	29823.8	32967.1	32045.0
59°	66.5	95.1	133.1	174.3	187.0	234.5	326.4	6055.4	29871.3	33166.7	32773.8
60°	60.2	91.9	126.7	161.6	177.4	221.8	310.5	5868.4	29440.4	32849.9	33074.8
62.5°	50.7	79.2	110.9	129.9	152.1	183.8	269.3	5190.3	27352.2	31414.4	32517.2
65°	44.4	69.7	95.1	107.7	126.7	158.4	237.7	4154.2	25045.4	29468.9	30920.1
67.5°	41.2	63.4	82.4	91.9	110.9	145.8	212.3	2934.2	22057.3	27000.5	28521.4
70°	38.0	60.2	72.9	85.6	98.2	123.6	180.6	1711.1	16990.5	22672.0	24278.5
72.5°	38.0	57.0	63.4	72.9	85.6	110.9	167.9	925.3	11616.4	17294.7	19370.2
75°	38.0	53.9	57.0	63.4	76.0	101.4	148.9	484.8	7509.8	12015.7	14829.5
77.5°	38.0	50.7	57.0	60.2	72.9	88.7	129.9	304.2	5003.4	8416.1	10022.6
80°	41.2	50.7	53.9	60.2	69.7	82.4	107.7	202.8	2940.5	5063.6	6099.7
82.5°	44.4	50.7	57.0	63.4	72.9	79.2	95.1	126.7	1356.2	3349.3	3789.8
85°	47.5	53.9	60.2	66.5	76.0	79.2	88.7	91.9	221.8	1511.5	2043.8
87.5°	50.7	57.0	63.4	69.7	82.4	82.4	82.4	82.4	76.0	161.6	411.9
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: P458121

CATALOG NUMBER: GALN-SA9C-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13777.5	13777.5	13777.5	13777.5	13777.5	13777.5	13777.5	13777.5	13777.5	13777.5
2.5°	15545.6	15903.7	16154.0	16217.4	16036.8	15954.4	15726.2	15371.3	15155.9	15146.4
5°	16382.2	17221.9	17804.9	17903.1	17554.6	16965.2	16264.9	15361.8	14832.7	14674.2
7.5°	16239.6	17709.8	18647.8	18784.0	18197.8	17072.9	15716.7	14262.3	13685.6	13441.6
10°	15653.4	17446.8	18787.2	19002.7	18220.0	16635.7	14911.9	13289.5	12573.4	12386.4
12.5°	15152.7	16965.2	18156.6	18454.5	17861.9	16280.8	14430.2	12665.3	11898.5	11724.2
15°	14934.1	16394.8	17123.6	17275.7	17177.5	16058.9	14379.5	12570.2	11692.5	11502.4
17.5°	15152.7	15910.0	16001.9	16157.2	16375.8	16036.8	14867.5	13086.7	12139.3	11904.8
20°	15726.2	15488.6	15108.3	15174.9	15675.5	16128.7	15735.7	14230.6	13077.2	12826.9
22.5°	16702.2	15384.0	14522.1	14465.1	15098.8	16436.0	17009.6	15780.1	14442.9	14195.8
25°	17900.0	15647.0	14306.7	14183.1	14873.9	16886.0	18394.3	17678.2	16217.4	15840.3
27.5°	19205.5	16192.0	14306.7	14186.3	14854.8	17285.2	19579.4	19357.6	18055.2	17643.3
30°	19921.6	16642.0	14512.6	14376.4	15089.3	17516.5	20213.1	20850.0	19436.8	18926.6
32.5°	20561.7	17266.2	14915.0	14658.4	15580.5	17858.8	20780.3	22117.5	20536.3	20194.1
35°	21151.0	17934.8	15469.6	15171.7	16226.9	18327.7	21407.7	23448.3	22066.8	21550.3
37.5°	21800.6	18711.1	16334.6	16081.1	17307.4	19240.3	22152.4	25197.5	23571.9	22922.3
40°	22507.2	19611.1	17757.4	17649.6	19024.8	20273.3	23093.5	27063.8	25289.4	24551.1
42.5°	23226.5	20647.2	19500.2	19677.6	20970.4	21721.4	24059.9	28499.2	26696.3	25881.9
45°	23879.3	21971.7	21765.8	22643.5	23239.2	23134.6	24776.0	29510.1	27922.5	27143.0
47.5°	24703.2	23901.5	24506.7	25859.7	25875.6	24671.5	25317.9	30337.1	28977.7	28198.2
50°	25625.2	26179.8	28046.1	29424.5	29053.8	26182.9	25951.6	31316.2	30067.8	29443.5
52.5°	26693.1	28730.6	31316.2	32846.7	31981.6	27830.7	27006.8	32374.6	31797.9	31199.0
55°	27935.2	30470.2	34576.8	35796.8	34925.4	29877.6	28610.2	33810.0	33752.9	33344.2
57.5°	29339.0	32308.0	36465.3	38116.2	37339.9	32279.5	30850.4	35163.0	34947.5	34719.4
59°	30448.0	33252.3	37298.7	39009.8	38540.8	33962.1	32355.6	36005.9	35223.2	34881.0
60°	31119.8	33892.4	37606.1	39130.2	39022.5	34963.4	33309.3	36417.8	35220.1	34744.7
62.5°	33112.9	35010.9	37488.8	38594.7	39016.1	36883.6	36107.3	36870.9	34567.3	33870.2
65°	33822.7	34640.2	35546.4	35410.2	35771.4	36785.4	37894.4	36373.5	33173.1	32181.3
67.5°	32441.1	30574.7	30894.8	29985.4	29807.9	32704.1	37168.8	33939.9	30444.8	29231.2
70°	27345.8	23423.0	23261.4	23679.7	22532.6	26477.6	33375.9	29253.4	25942.1	24566.9
72.5°	21524.9	16553.3	15190.7	16730.7	16695.9	20200.4	27726.1	20758.1	17526.1	17408.8
75°	16927.2	11524.5	10114.5	10364.8	10846.4	14623.5	22082.6	13181.8	10792.6	9835.6
77.5°	11362.9	8165.7	7617.5	7310.2	7829.8	9388.8	13970.8	7148.6	6052.2	5732.2
80°	6549.7	5931.8	6736.6	6115.6	6394.4	5916.0	6948.9	3279.6	2721.9	2946.9
82.5°	4261.9	3377.8	3599.6	2674.4	3656.7	3688.4	2230.8	969.6	820.7	871.4
85°	2664.9	1584.3	890.4	633.7	1261.1	2319.5	697.1	60.2	69.7	60.2
87.5°	690.8	263.0	110.9	164.8	202.8	180.6	161.6	9.5	3.2	6.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)