

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: P456756

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456756
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
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-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT 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 III - Short
BUG Rating: B3 - U0 - G4

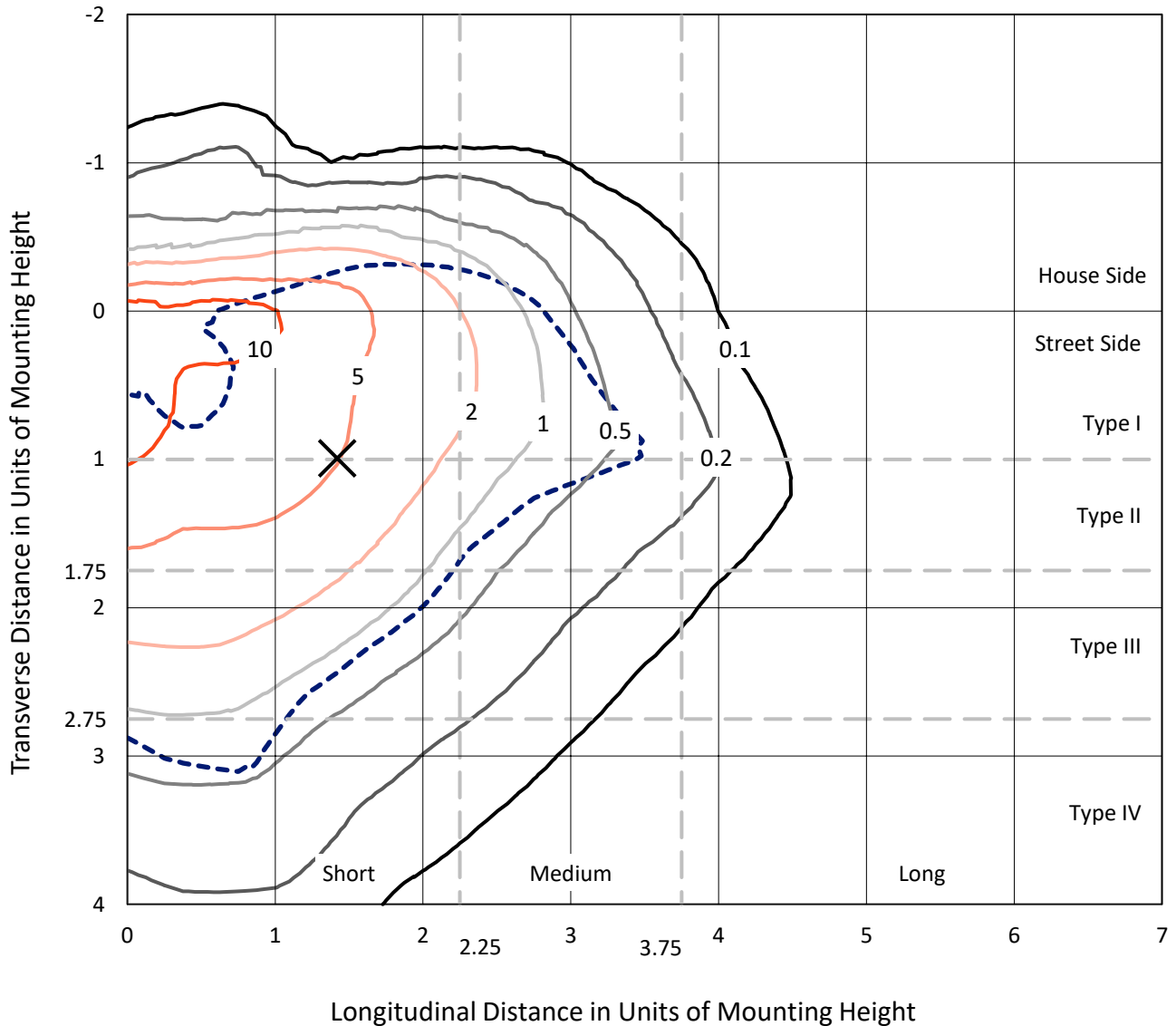
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

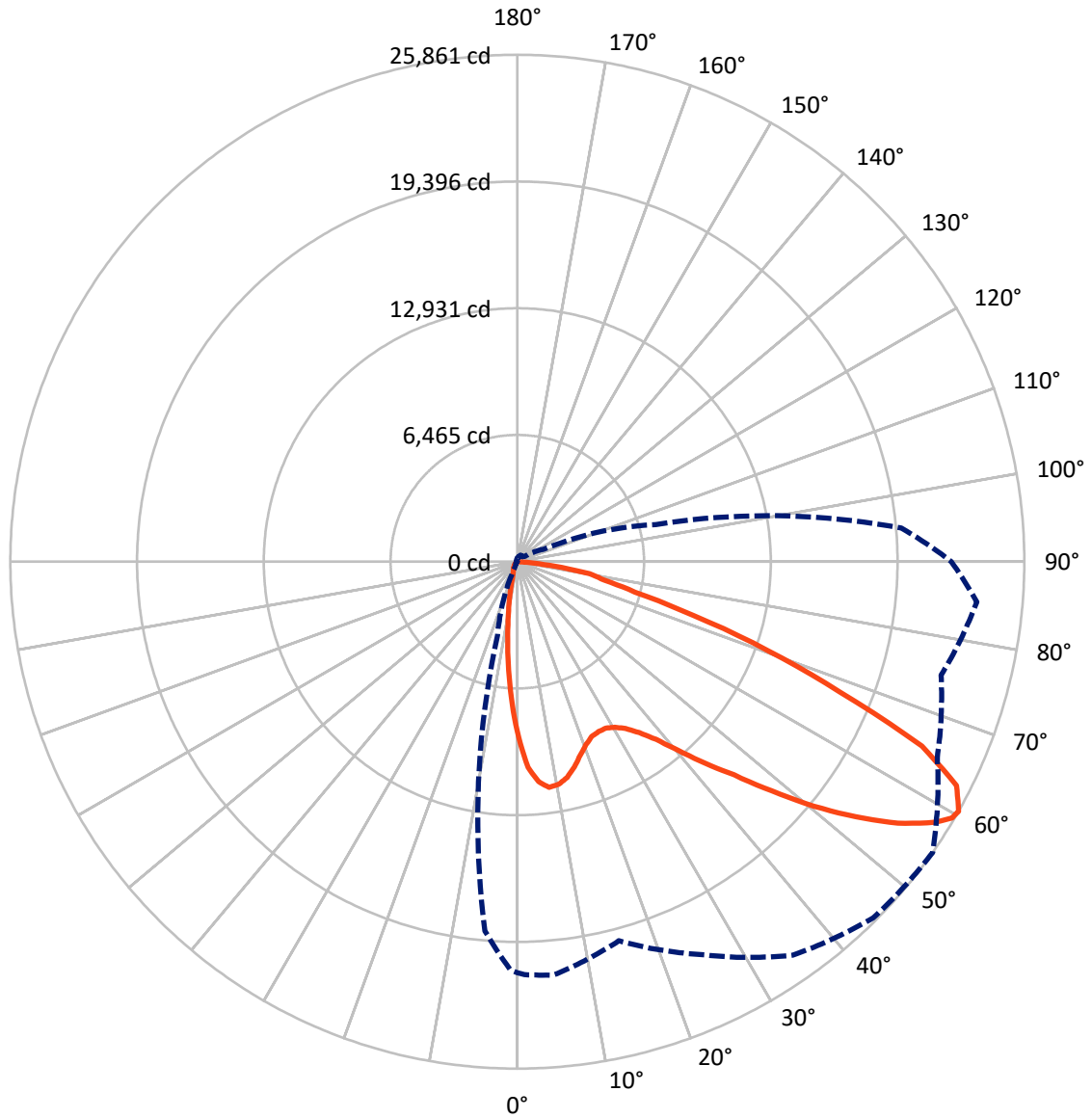
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3935.8	0.0	3935.8
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	22584.2	0.0	22584.2
	% Fixture	85.2	0.0	85.2
Total	Lumens	26520.0	0.0	26520.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	665.0	2.5
10°-20°	1309.4	4.9
20°-30°	1938.2	7.3
30°-40°	2889.1	10.9
40°-50°	4231.1	16.0
50°-60°	6108.4	23.0
60°-70°	6425.8	24.2
70°-80°	2643.3	10.0
80°-90°	309.6	1.2
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



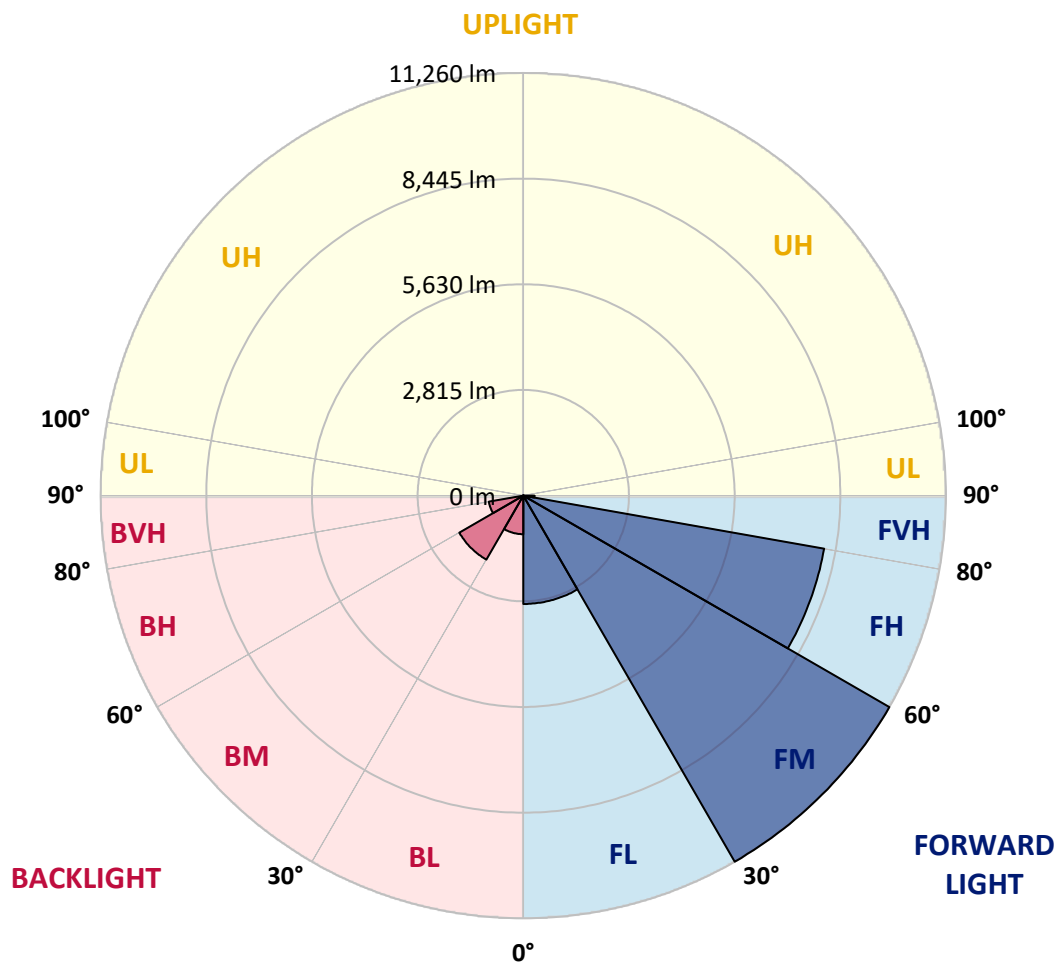
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2885.7	10.9			
FM	(30°-60°)	11260.4	42.5			
FH	(60°-80°)	8137.5	30.7			G4/12000
FVH	(80°-90°)	300.5	1.1			G3/500
BL	(0°-30°)	1026.9	3.9	B3/2500		
BM	(30°-60°)	1968.3	7.4	B2/2500		
BH	(60°-80°)	931.6	3.5	B2/1000		G2/1000
BVH	(80°-90°)	9.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8979.6	8979.6	8979.6	8979.6	8979.6	8979.6	8979.6	8979.6	8979.6	8979.6	8979.6
2.5°	9810.4	9794.1	9939.0	10175.8	10414.6	10539.1	10514.6	10504.4	10306.4	10161.5	9857.3
5°	9790.0	9873.7	10132.9	10773.9	11259.7	11494.5	11563.9	11272.0	10886.2	10326.8	9636.9
7.5°	9204.1	9308.2	9730.8	10733.1	11596.5	12106.8	12088.5	11621.0	10824.9	9959.4	8975.5
10°	8477.4	8599.9	9096.0	10312.6	11433.2	12106.8	12143.6	11551.6	10561.6	9451.1	8416.2
12.5°	7965.1	8110.0	8659.1	9920.6	11012.7	11676.1	11719.0	11290.3	10363.6	9255.2	8112.1
15°	7791.6	7928.3	8485.6	9722.6	10565.7	10922.9	10912.7	10867.8	10286.0	9302.1	8128.4
17.5°	8089.6	8201.9	8830.6	9812.4	10147.2	10110.5	10163.5	10379.9	10302.3	9696.1	8642.8
20°	8859.2	8973.5	9649.1	10088.0	9826.7	9594.0	9618.5	9979.8	10453.4	10437.1	9447.1
22.5°	9918.6	10112.5	10724.9	10622.8	9783.9	9273.5	9222.5	9692.0	10710.6	11290.3	10533.0
25°	11259.7	11455.7	11933.3	11476.1	9994.1	9198.0	9151.1	9604.2	11022.9	12123.2	11755.7
27.5°	12386.5	12535.5	13011.1	12306.9	10304.4	9230.7	9153.1	9616.5	11276.0	12831.5	12786.6
30°	13288.7	13399.0	13678.6	12694.7	10571.8	9373.6	9283.7	9796.1	11388.3	13176.5	13621.5
32.5°	14015.4	14201.2	14289.0	13109.1	10955.6	9643.0	9489.9	10141.1	11661.8	13603.1	14497.2
35°	14846.2	15060.6	14948.3	13505.1	11461.8	10063.5	9875.7	10700.4	12076.2	13997.1	15513.7
37.5°	15899.5	16146.5	15707.7	13921.5	11996.6	10696.3	10608.5	11486.3	12704.9	14560.5	16603.8
40°	16989.6	17132.5	16444.6	14427.8	12653.9	11616.9	11700.6	12653.9	13527.6	15236.1	17763.2
42.5°	17840.8	17975.5	17201.9	14852.4	13325.5	12709.0	13058.1	14062.4	14470.6	15928.1	18628.7
45°	18492.0	18606.3	17726.5	15315.7	14231.8	14291.0	14950.3	15513.7	15415.8	16350.7	19296.2
47.5°	18998.2	19096.2	18130.7	15813.8	15589.3	16226.1	17234.5	17473.4	16395.6	16807.9	19900.5
50°	19206.4	19235.0	18257.2	16448.6	17130.4	18692.0	19743.3	19598.3	17518.3	17316.2	20543.5
52.5°	19477.9	19471.8	18618.5	17052.9	18579.7	20896.6	21945.8	21617.2	18788.0	18077.6	21266.1
55°	20190.3	20198.5	19392.2	17910.2	19814.7	22676.6	23799.3	23560.5	20127.0	19363.6	22109.1
57.5°	21055.8	21086.4	20492.4	18912.5	20994.6	23966.7	25183.3	25091.4	21937.7	20794.5	22905.2
59°	21168.1	21229.3	21013.0	19618.8	21694.7	24362.7	25656.9	25746.7	22907.3	21737.6	23335.9
60°	20964.0	21066.0	21164.0	20018.9	22105.0	24505.6	25685.4	25861.0	23636.0	22378.6	23531.9
62.5°	20074.0	20235.2	20727.2	21249.7	22617.4	24060.6	24773.0	25140.4	24538.2	24062.6	23550.3
65°	18908.4	18992.1	19702.5	21468.2	21623.3	21982.6	22203.0	22674.6	23454.3	24711.8	22707.2
67.5°	16997.8	17244.7	18114.3	20200.5	18690.0	18265.4	18210.3	17740.8	19765.7	23164.5	20629.2
70°	14042.0	14152.2	15223.9	16560.9	14105.3	13452.0	13713.3	13537.8	15321.9	19941.3	16603.8
72.5°	10618.7	10867.8	11915.0	13201.0	9598.1	8751.0	9471.5	9406.2	11508.7	16026.1	11406.7
75°	7554.8	7716.0	9051.0	10330.9	6721.9	5695.2	5954.4	6197.3	8034.5	12653.9	6740.3
77.5°	5191.0	5329.8	6332.1	6832.2	4903.2	4697.0	4296.9	4531.6	5264.5	7507.8	3668.2
80°	3131.3	3125.2	3784.5	3907.0	3415.1	3966.2	3327.3	3735.5	3182.4	3213.0	1420.7
82.5°	2033.1	2012.7	2314.8	2523.0	1900.4	1998.4	1341.1	1933.1	2073.9	896.1	449.1
85°	910.4	949.2	1112.5	1467.7	832.8	443.0	273.5	594.0	883.9	451.1	0.0
87.5°	93.9	73.5	196.0	357.2	114.3	12.2	40.8	20.4	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°	8979.6	8979.6	8979.6	8979.6	8979.6	8979.6	8979.6	8979.6	8979.6	8979.6	8979.6
2.5°	9716.5	9598.1	9245.0	8914.3	8630.5	8283.5	8059.0	7705.8	7491.5	7426.2	7436.4
5°	9326.6	8985.7	8314.1	7777.3	7179.2	6838.3	6319.8	5821.7	5552.3	5452.3	5407.4
7.5°	8510.1	8144.7	7334.3	6491.3	5850.3	5252.2	4866.4	4427.5	4127.5	3880.5	3837.6
10°	7903.8	7424.1	6419.8	5513.5	5007.3	4558.2	4172.4	3733.5	3380.4	3098.7	3021.1
12.5°	7540.5	7003.6	5883.0	5123.6	4643.9	4182.6	3680.4	3172.2	2810.8	2506.7	2365.8
15°	7475.2	6852.6	5731.9	4844.0	4252.0	3694.7	3027.2	2478.1	2106.6	1818.8	1731.0
17.5°	7869.1	7124.1	5709.5	4552.1	3739.6	2949.7	2255.6	1800.4	1381.9	1220.7	1157.4
20°	8571.3	7603.8	5707.4	4213.2	3213.0	2271.9	1584.0	1173.7	1004.3	926.7	890.0
22.5°	9528.7	8257.0	5815.6	3921.3	2665.9	1675.9	1130.9	934.9	836.9	773.6	759.4
25°	10698.4	9224.6	6081.0	3723.3	2247.5	1314.6	932.9	800.2	718.5	690.0	677.7
27.5°	11737.4	10151.3	6372.9	3519.2	1947.4	1163.5	865.5	732.8	667.5	645.0	626.7
30°	12633.5	10992.3	6513.7	3249.7	1706.5	1065.5	877.8	783.9	698.1	630.8	600.1
32.5°	13380.6	11637.3	6605.6	3004.8	1502.4	871.6	694.0	606.3	567.5	543.0	522.6
35°	14315.5	12335.5	6550.5	2866.0	1398.3	794.1	632.8	522.6	457.2	408.3	387.8
37.5°	15295.3	13033.6	6454.5	2751.6	1351.3	736.9	602.2	496.0	424.6	373.6	347.0
40°	16309.8	13680.7	6342.3	2645.5	1308.5	700.2	583.8	473.6	402.1	347.0	318.4
42.5°	17238.6	14311.4	6297.4	2576.1	1239.1	706.3	569.5	463.4	379.7	322.5	298.0
45°	17989.8	14909.5	6358.6	2539.4	1163.5	696.1	573.6	451.1	361.3	306.2	281.7
47.5°	18792.0	15754.6	6556.6	2502.6	1090.0	647.1	604.2	449.1	353.1	296.0	269.4
50°	19724.9	16836.5	7009.8	2412.8	1000.2	594.0	643.0	447.0	342.9	283.7	257.2
52.5°	20968.0	18065.3	7477.2	2255.6	869.6	543.0	614.4	440.9	322.5	269.4	242.9
55°	22084.6	19359.5	7873.2	2069.9	704.2	469.5	553.2	414.4	287.8	245.0	220.5
57.5°	22546.0	20090.3	7861.0	1812.7	563.4	412.3	455.2	379.7	251.1	216.4	196.0
59°	22376.5	19998.4	7597.7	1622.8	514.4	381.7	377.6	375.6	234.7	196.0	179.6
60°	22137.7	19663.7	7313.9	1528.9	483.8	361.3	347.0	371.5	220.5	183.7	167.4
62.5°	21223.2	18275.6	6372.9	1369.7	443.0	306.2	277.6	314.4	196.0	159.2	144.9
65°	19898.4	16142.5	5395.1	1324.8	430.7	253.1	230.7	224.5	167.4	134.7	122.5
67.5°	17314.2	13660.3	4370.4	1294.2	434.8	212.3	202.1	169.4	138.8	112.3	104.1
70°	13862.3	10651.4	3578.4	1259.5	438.9	173.5	169.4	134.7	112.3	93.9	85.7
72.5°	8422.3	6313.7	2817.0	1094.1	426.6	138.8	151.1	102.1	81.7	67.4	63.3
75°	5207.3	4321.4	1747.3	851.2	281.7	102.1	106.1	63.3	55.1	42.9	42.9
77.5°	3017.0	2729.2	624.6	306.2	124.5	61.2	46.9	32.7	30.6	18.4	18.4
80°	1251.3	1002.3	216.4	104.1	67.4	28.6	10.2	2.0	0.0	0.0	0.0
82.5°	365.4	324.6	59.2	46.9	20.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8979.6	8979.6	8979.6	8979.6	8979.6	8979.6	8979.6	8979.6	8979.6	8979.6	8979.6
2.5°	7262.9	7195.5	7164.9	7269.0	7173.1	7295.5	7201.6	7242.5	7362.9	7416.0	7552.7
5°	5435.9	5366.5	5333.9	5491.0	5482.9	5560.5	5552.3	5623.7	5685.0	5548.2	5689.1
7.5°	3786.6	3739.6	3817.2	3939.7	4070.3	4027.4	4027.4	3931.5	3964.2	3943.8	3937.6
10°	2880.2	2719.0	2678.2	2674.1	2723.1	2733.3	2678.2	2545.5	2594.5	2608.8	2694.5
12.5°	2265.8	2141.3	1951.5	1865.7	1843.3	1861.6	1680.0	1563.6	1618.7	1586.1	1669.8
15°	1624.9	1522.8	1410.5	1314.6	1288.0	1251.3	1053.3	914.5	898.2	904.3	918.6
17.5°	1159.4	1090.0	1090.0	988.0	932.9	822.6	722.6	661.4	655.3	661.4	671.6
20°	855.3	818.6	814.5	787.9	726.7	653.2	583.8	571.6	567.5	577.7	581.8
22.5°	736.9	698.1	665.5	663.4	606.3	545.0	512.4	496.0	498.1	502.2	512.4
25°	659.3	618.5	583.8	563.4	522.6	479.7	449.1	440.9	440.9	447.0	449.1
27.5°	604.2	553.2	522.6	494.0	457.2	420.5	394.0	387.8	383.8	387.8	398.0
30°	565.4	514.4	475.6	432.8	404.2	369.5	347.0	338.9	336.8	338.9	347.0
32.5°	483.8	453.2	422.5	383.8	349.1	326.6	302.1	287.8	287.8	291.9	300.1
35°	365.4	349.1	347.0	336.8	308.2	283.7	255.2	240.9	240.9	249.0	253.1
37.5°	322.5	291.9	287.8	283.7	271.5	238.8	212.3	200.0	198.0	204.1	212.3
40°	293.9	259.2	240.9	236.8	238.8	202.1	173.5	161.3	161.3	163.3	171.5
42.5°	271.5	230.7	198.0	193.9	202.1	169.4	140.8	128.6	128.6	128.6	138.8
45°	253.1	206.2	167.4	147.0	159.2	138.8	114.3	102.1	98.0	102.1	106.1
47.5°	240.9	187.8	147.0	118.4	118.4	110.2	91.9	77.6	73.5	75.5	81.7
50°	230.7	171.5	124.5	95.9	85.7	87.8	69.4	59.2	55.1	55.1	61.2
52.5°	214.3	155.1	108.2	81.7	65.3	59.2	51.0	42.9	40.8	42.9	46.9
55°	193.9	140.8	93.9	67.4	51.0	40.8	36.7	30.6	28.6	30.6	36.7
57.5°	171.5	118.4	75.5	53.1	34.7	26.5	24.5	20.4	16.3	18.4	22.5
59°	157.2	106.1	65.3	42.9	26.5	18.4	18.4	14.3	10.2	12.2	18.4
60°	151.1	98.0	55.1	36.7	22.5	14.3	14.3	10.2	6.1	8.2	14.3
62.5°	128.6	81.7	42.9	22.5	10.2	2.0	6.1	2.0	0.0	2.0	6.1
65°	108.2	65.3	28.6	10.2	0.0	0.0	0.0	0.0	0.0	0.0	2.0
67.5°	89.8	49.0	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	71.4	32.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	49.0	18.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	30.6	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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



REPORT NUMBER: P456756

CATALOG NUMBER: GALN-SA8A-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8979.6	8979.6	8979.6	8979.6	8979.6	8979.6	8979.6	8979.6	8979.6	8979.6
2.5°	7560.9	7852.8	8032.4	8371.3	8718.3	8985.7	9320.5	9620.6	9745.1	9810.4
5°	5831.9	6238.2	6583.1	7099.6	7579.3	8163.1	8755.1	9453.2	9720.6	9790.0
7.5°	4092.8	4507.2	4868.5	5466.6	6150.4	6932.2	7818.1	8704.0	9093.9	9204.1
10°	2955.8	3398.7	3839.7	4437.7	5076.7	5923.8	6846.5	7942.6	8391.7	8477.4
12.5°	1865.7	2341.4	3057.8	3796.8	4472.4	5154.2	6119.8	7311.9	7807.9	7965.1
15°	1081.9	1437.1	1978.0	2941.5	3800.9	4703.1	5756.4	7075.1	7630.3	7791.6
17.5°	724.7	847.1	1218.6	1955.5	3090.5	4286.7	5664.6	7269.0	7883.4	8089.6
20°	610.3	665.5	796.1	1192.1	2380.1	3915.2	5689.1	7795.7	8602.0	8859.2
22.5°	536.9	587.9	671.6	857.3	1661.6	3453.8	5805.4	8548.9	9589.9	9918.6
25°	473.6	524.6	598.1	710.4	1116.6	2921.1	6060.6	9651.2	10898.4	11259.7
27.5°	420.5	467.5	530.7	626.7	859.4	2327.1	6287.1	10724.9	12092.6	12386.5
30°	371.5	410.3	471.5	545.0	714.4	1794.3	6401.5	11663.9	12962.1	13288.7
32.5°	322.5	359.3	418.5	477.7	587.9	1367.7	6321.8	12353.8	13807.2	14015.4
35°	275.6	314.4	363.3	418.5	508.3	1104.3	5923.8	13129.5	14682.9	14846.2
37.5°	236.8	269.4	320.5	363.3	459.3	883.9	5442.1	13827.6	15664.8	15899.5
40°	200.0	232.7	283.7	322.5	422.5	696.1	5007.3	14603.3	16699.7	16989.6
42.5°	163.3	202.1	247.0	310.3	363.3	530.7	4480.6	15232.0	17477.5	17840.8
45°	130.6	173.5	222.5	308.2	316.4	404.2	3972.3	15722.0	18165.4	18492.0
47.5°	104.1	147.0	214.3	287.8	259.2	320.5	3682.5	16234.3	18736.9	18998.2
50°	83.7	122.5	224.5	253.1	216.4	271.5	3674.3	16805.9	19032.9	19206.4
52.5°	67.4	100.0	189.8	193.9	183.7	238.8	3894.8	17448.9	19335.0	19477.9
55°	57.2	83.7	124.5	142.9	165.3	216.4	4060.1	18438.9	20055.6	20190.3
57.5°	44.9	71.4	95.9	114.3	147.0	198.0	4082.6	19202.3	20968.0	21055.8
59°	38.8	61.2	85.7	102.1	134.7	185.8	3990.7	19249.3	21027.2	21168.1
60°	32.7	55.1	75.5	95.9	124.5	175.6	3890.7	18908.4	20806.8	20964.0
62.5°	24.5	42.9	55.1	77.6	102.1	151.1	3417.1	17718.3	19963.7	20074.0
65°	16.3	30.6	40.8	57.2	79.6	130.6	2784.3	16175.1	18661.4	18908.4
67.5°	10.2	22.5	32.7	42.9	65.3	110.2	1984.1	13870.5	16838.5	16997.8
70°	6.1	14.3	24.5	34.7	51.0	87.8	1177.8	10963.7	14009.3	14042.0
72.5°	4.1	10.2	16.3	24.5	40.8	79.6	571.6	7146.5	10228.9	10618.7
75°	2.0	6.1	10.2	18.4	32.7	65.3	273.5	4774.6	7442.5	7554.8
77.5°	0.0	2.0	6.1	12.2	24.5	51.0	159.2	3135.4	5074.6	5191.0
80°	0.0	0.0	4.1	10.2	18.4	32.7	95.9	1849.4	3074.2	3131.3
82.5°	0.0	0.0	2.0	8.2	12.2	24.5	49.0	812.4	2012.7	2033.1
85°	0.0	0.0	2.0	8.2	10.2	16.3	18.4	110.2	894.1	910.4
87.5°	0.0	0.0	2.0	10.2	10.2	10.2	10.2	6.1	75.5	93.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)