

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: P457657

Luminaire Tested: **GALN-SA9A-730-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457657
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-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 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: 27115 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

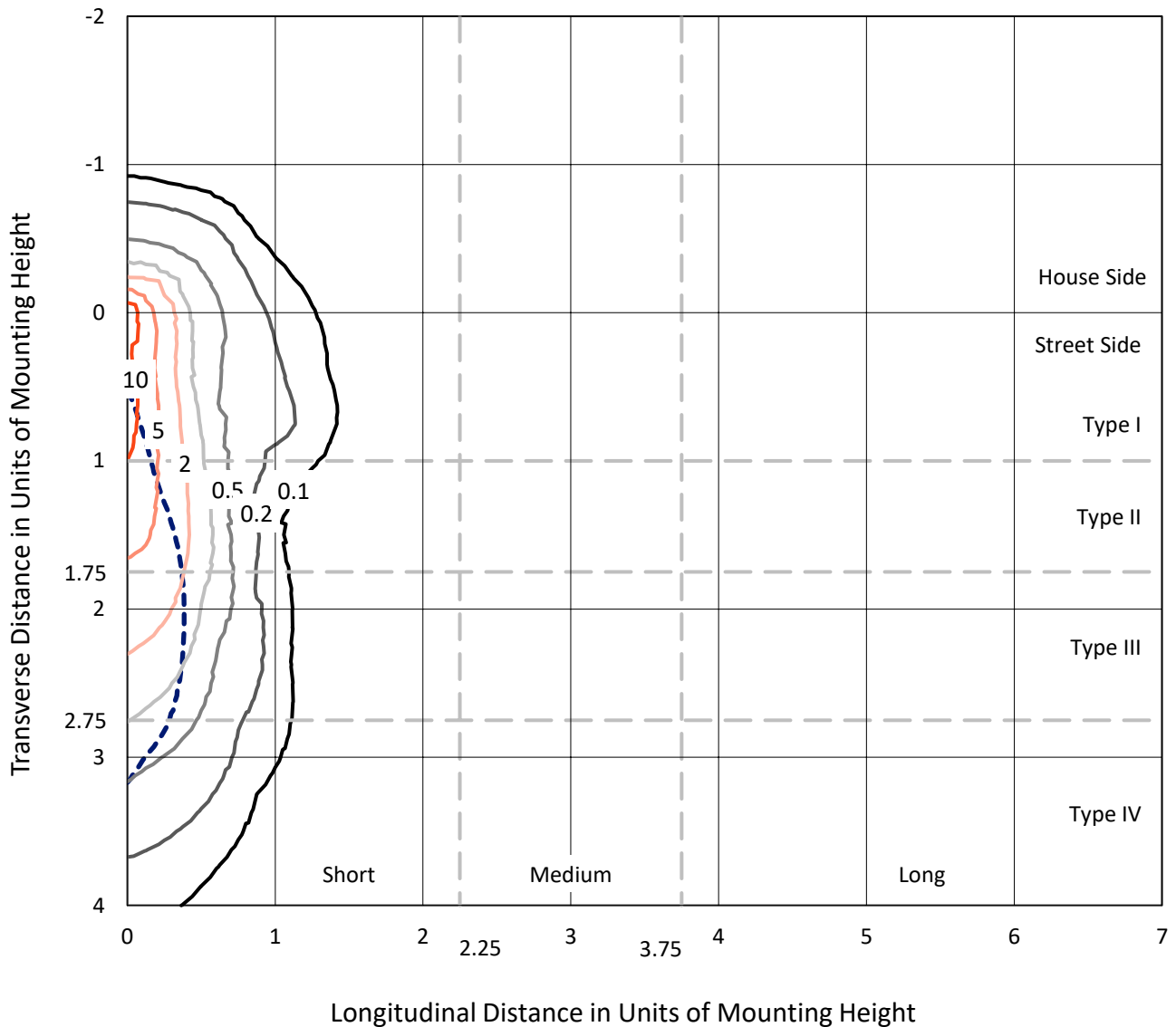
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

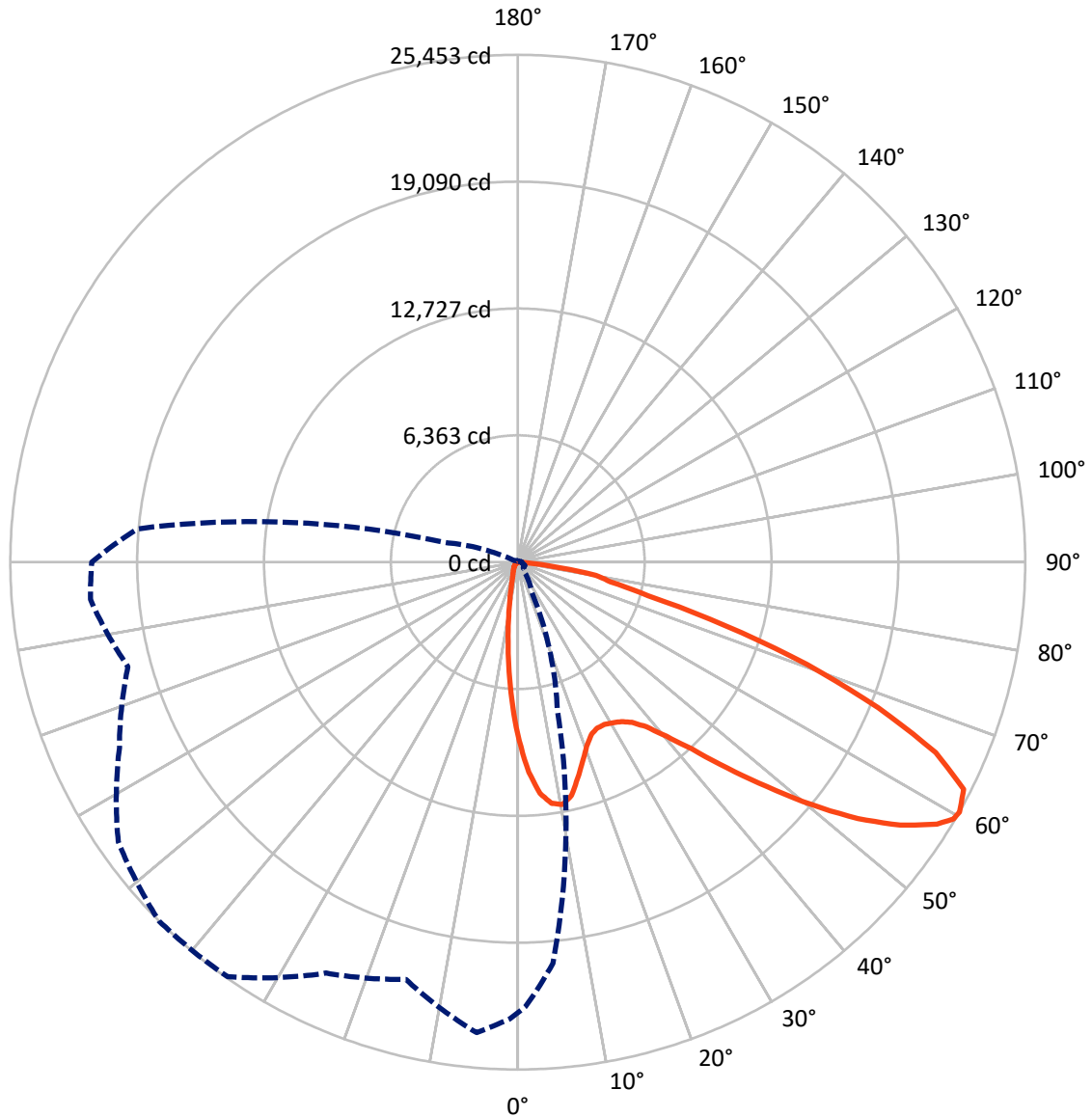
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 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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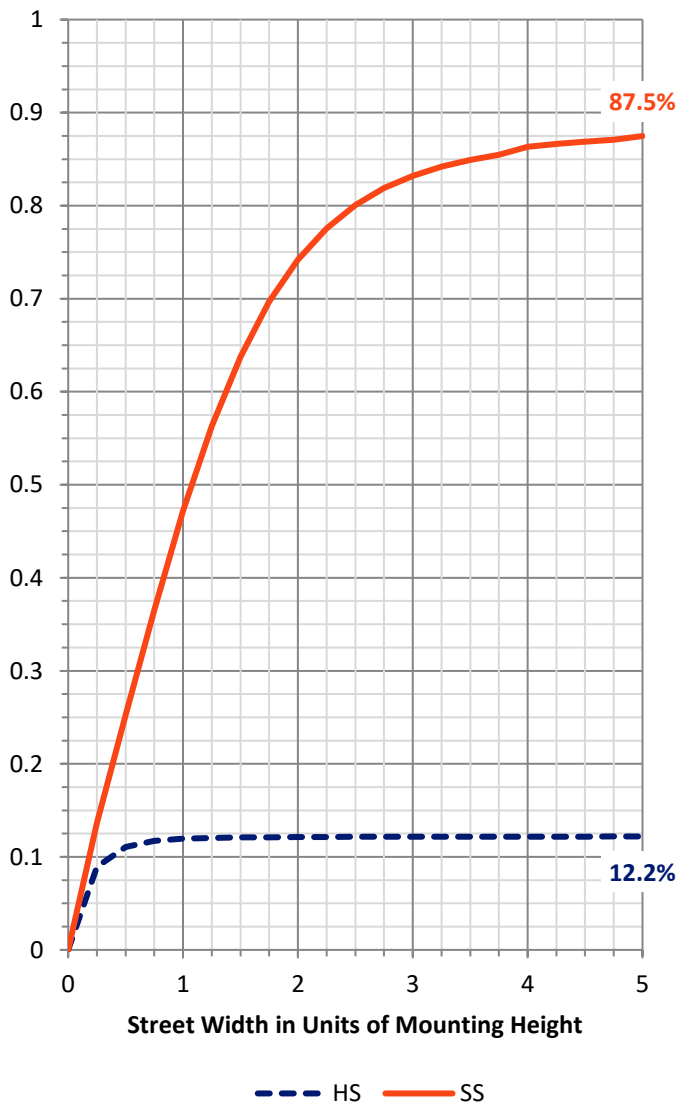
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3344.4	0.0	3344.4
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	23770.6	0.0	23770.6
	% Fixture	87.7	0.0	87.7
Total	Lumens	27115.0	0.0	27115.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	666.6	2.5
10°-20°	1323.8	4.9
20°-30°	1941.0	7.2
30°-40°	2886.6	10.6
40°-50°	4201.0	15.5
50°-60°	6058.1	22.3
60°-70°	6663.3	24.6
70°-80°	2984.6	11.0
80°-90°	390.0	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°	27115.0	100.0
0°-180°	27115.0	100.0

Coefficient of Utilization



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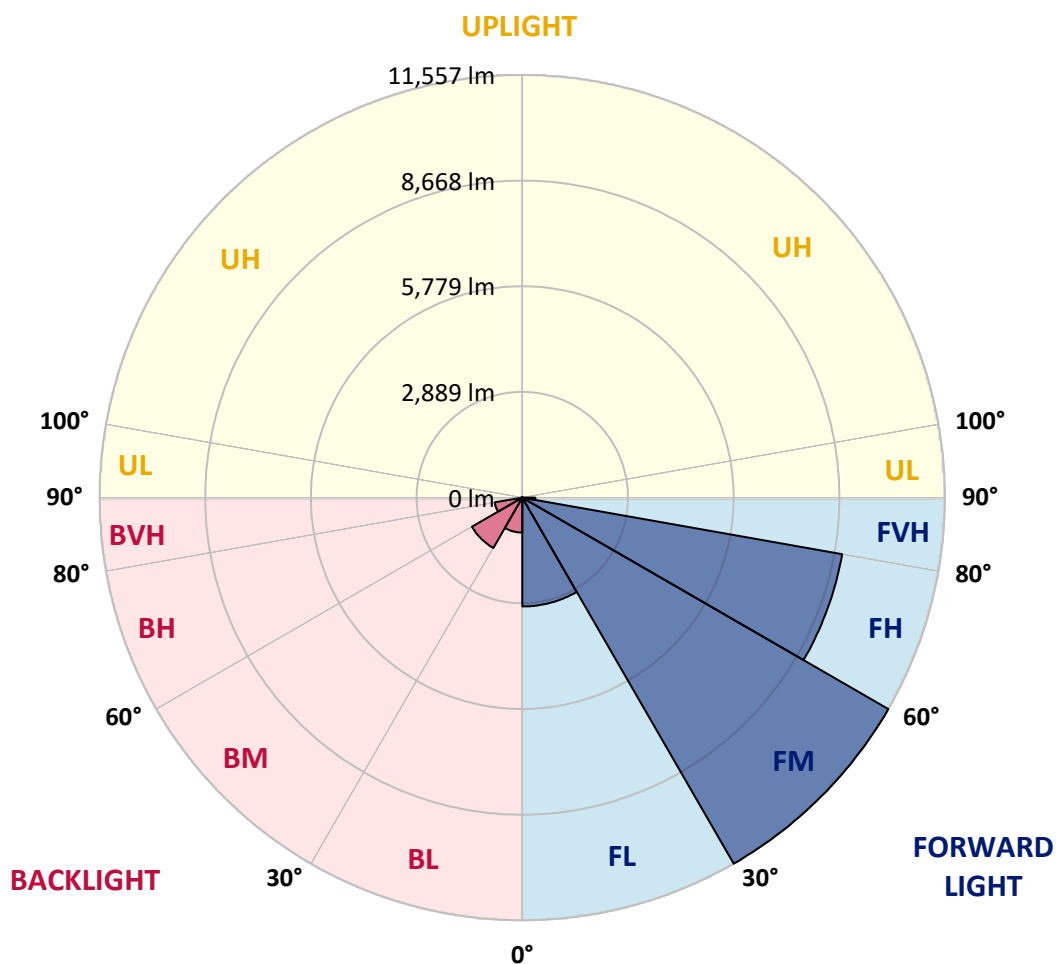
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2975.8	11.0			
FM	(30°-60°)	11557.2	42.6			
FH	(60°-80°)	8881.0	32.8			G4/12000
FVH	(80°-90°)	356.6	1.3			G3/500
BL	(0°-30°)	955.6	3.5	B2/1000		
BM	(30°-60°)	1588.5	5.9	B2/2500		
BH	(60°-80°)	766.9	2.8	B2/1000		G2/1000
BVH	(80°-90°)	33.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8961.9	8961.9	8961.9	8961.9	8961.9	8961.9	8961.9	8961.9	8961.9	8961.9	8961.9
2.5°	9852.3	9809.0	9710.1	9409.2	9147.4	8805.2	8459.0	8186.9	8019.9	7712.8	7572.7
5°	9545.2	9565.8	9279.3	8661.0	7972.5	7502.6	6989.4	6581.3	6131.9	5847.5	5548.6
7.5°	8743.4	8702.2	8391.0	7529.4	6692.6	6012.4	5363.1	4835.5	4503.6	4237.7	4015.1
10°	8057.0	8026.1	7628.3	6519.4	5620.8	5111.7	4672.6	4210.9	3854.4	3464.8	3153.6
12.5°	7626.3	7556.2	7098.6	5940.2	5208.5	4734.5	4256.3	3776.0	3283.4	2889.7	2512.5
15°	7482.0	7381.0	6871.9	5740.3	4944.7	4342.9	3743.1	3190.7	2623.8	2188.9	1904.5
17.5°	7743.8	7576.8	7034.7	5705.3	4629.4	3831.7	3093.8	2374.4	1785.0	1453.1	1277.9
20°	8343.5	8151.9	7446.9	5670.2	4279.0	3258.7	2351.8	1677.8	1234.6	1053.2	956.4
22.5°	9234.0	8970.1	8057.0	5725.9	3955.4	2700.1	1698.4	1185.2	981.1	867.7	799.7
25°	10303.7	10083.2	8830.0	5923.8	3699.8	2261.1	1313.0	968.7	826.5	756.4	704.9
27.5°	11476.5	11124.0	9829.6	6160.8	3466.9	1921.0	1152.2	865.7	735.8	671.9	645.1
30°	12311.3	12037.1	10666.5	6325.7	3176.2	1665.4	1053.2	853.3	737.9	661.6	612.2
32.5°	13135.7	12785.3	11367.3	6401.9	2963.9	1488.2	911.0	744.1	647.2	608.0	558.6
35°	14017.9	13651.0	12066.0	6360.7	2805.2	1370.7	826.5	663.7	554.5	488.5	439.0
37.5°	14910.4	14522.9	12760.6	6212.3	2706.3	1323.3	760.6	630.7	523.5	455.5	401.9
40°	15969.8	15452.5	13411.9	6090.7	2603.2	1298.5	717.3	610.1	500.9	428.7	375.1
42.5°	16835.5	16342.9	14028.2	6026.8	2533.2	1240.8	717.3	593.6	486.4	406.0	350.4
45°	17655.8	17144.7	14694.0	6078.3	2504.3	1168.7	725.5	591.6	476.1	389.6	333.9
47.5°	18342.2	17899.1	15378.3	6272.1	2467.2	1090.4	682.2	620.4	469.9	375.1	317.4
50°	19152.2	18723.5	16283.1	6663.7	2401.2	1012.0	628.7	667.8	467.9	362.8	303.0
52.5°	20294.1	19830.4	17532.2	7108.9	2296.1	892.5	579.2	661.6	459.6	342.2	288.6
55°	21689.5	21314.4	18979.1	7642.8	2151.8	758.5	500.9	587.4	434.9	307.1	263.8
57.5°	22584.1	22264.6	20063.3	7873.6	1931.3	620.4	441.1	492.6	397.8	274.1	235.0
59°	22689.2	22400.6	20290.0	7797.3	1787.0	566.8	412.2	422.5	387.5	255.6	218.5
60°	22600.5	22301.7	20199.3	7648.9	1653.0	529.7	387.5	375.1	389.6	245.3	206.1
62.5°	22031.7	21520.5	19319.2	6896.6	1444.9	486.4	344.2	307.1	344.2	220.5	183.4
65°	20933.1	20166.3	17577.5	5837.2	1362.4	461.7	292.7	257.6	261.8	193.7	158.7
67.5°	19014.1	18047.5	15258.7	4742.7	1327.4	463.8	247.3	230.8	202.0	164.9	140.2
70°	15980.1	15015.5	12243.3	3901.8	1310.9	463.8	210.2	197.9	169.0	138.1	121.6
72.5°	11324.0	10285.2	8259.0	3064.9	1181.0	461.7	179.3	179.3	138.1	115.4	98.9
75°	6397.8	6406.1	5192.0	2168.3	981.1	381.3	144.3	142.2	101.0	88.6	74.2
77.5°	3728.6	3662.7	3499.8	931.6	455.5	173.1	101.0	86.6	70.1	63.9	53.6
80°	1916.9	1576.8	1535.6	338.0	162.8	109.2	70.1	49.5	45.3	41.2	37.1
82.5°	566.8	568.9	507.0	136.0	90.7	72.1	35.0	26.8	24.7	22.7	22.7
85°	39.2	24.7	28.9	41.2	55.7	28.9	2.1	6.2	6.2	8.2	10.3
87.5°	4.1	2.1	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°	8961.9	8961.9	8961.9	8961.9	8961.9	8961.9	8961.9	8961.9	8961.9	8961.9	8961.9
2.5°	7418.1	7508.8	7339.8	7343.9	7203.7	7249.1	7084.2	7137.8	7040.9	7115.1	7333.6
5°	5581.6	5602.2	5466.2	5422.9	5443.5	5528.0	5561.0	5410.5	5474.4	5348.7	5340.4
7.5°	3932.7	3957.4	3879.1	3868.8	4017.2	3982.1	4046.0	3891.5	3745.1	3809.0	3691.5
10°	3054.6	2951.6	2790.8	2745.5	2716.6	2735.2	2735.2	2595.0	2574.4	2518.7	2603.2
12.5°	2411.5	2285.8	2133.3	1927.2	1875.6	1871.5	1795.3	1671.6	1632.4	1585.0	1655.1
15°	1752.0	1700.5	1572.7	1457.2	1339.7	1317.1	1193.4	1092.4	958.4	939.9	933.7
17.5°	1232.6	1156.3	1154.2	1088.3	1020.3	974.9	859.5	744.1	692.5	686.4	686.4
20°	923.4	896.6	853.3	845.1	824.5	772.9	669.9	608.0	583.3	585.4	593.6
22.5°	777.1	758.5	719.3	700.8	692.5	647.2	570.9	529.7	517.3	517.3	519.4
25°	694.6	678.1	634.8	606.0	595.7	562.7	502.9	472.0	461.7	461.7	461.7
27.5°	632.8	612.2	566.8	542.1	523.5	486.4	449.3	418.4	408.1	408.1	410.2
30°	589.5	566.8	525.6	492.6	463.8	430.8	399.9	373.1	360.7	358.6	360.7
32.5°	531.8	511.2	469.9	449.3	416.4	377.2	352.5	327.7	315.4	317.4	315.4
35°	414.3	408.1	379.3	385.4	366.9	333.9	311.2	284.4	270.0	267.9	272.1
37.5°	377.2	352.5	319.5	321.5	315.4	303.0	265.9	237.0	226.7	226.7	228.8
40°	348.3	323.6	286.5	267.9	270.0	270.0	230.8	199.9	189.6	187.6	191.7
42.5°	323.6	298.9	257.6	226.7	218.5	228.8	195.8	164.9	154.6	150.5	154.6
45°	307.1	280.3	232.9	197.9	173.1	185.5	160.8	136.0	123.7	123.7	121.6
47.5°	290.6	265.9	214.4	171.1	144.3	138.1	131.9	109.2	96.9	94.8	96.9
50°	276.2	251.5	193.7	148.4	121.6	107.2	107.2	86.6	78.3	74.2	76.3
52.5°	261.8	235.0	175.2	131.9	105.1	86.6	76.3	70.1	63.9	61.8	63.9
55°	241.2	214.4	156.6	113.4	90.7	72.1	59.8	57.7	53.6	49.5	53.6
57.5°	216.4	191.7	138.1	96.9	72.1	55.7	49.5	47.4	43.3	41.2	41.2
59°	202.0	179.3	127.8	84.5	63.9	49.5	45.3	43.3	39.2	35.0	37.1
60°	193.7	175.2	121.6	78.3	57.7	45.3	41.2	39.2	35.0	33.0	35.0
62.5°	171.1	156.6	107.2	63.9	45.3	33.0	28.9	30.9	28.9	26.8	28.9
65°	150.5	138.1	90.7	49.5	35.0	22.7	20.6	26.8	24.7	22.7	24.7
67.5°	134.0	119.5	76.3	37.1	24.7	12.4	14.4	22.7	22.7	20.6	22.7
70°	115.4	103.1	61.8	26.8	12.4	6.2	10.3	16.5	20.6	18.6	20.6
72.5°	94.8	80.4	47.4	18.6	6.2	0.0	6.2	14.4	20.6	18.6	20.6
75°	74.2	59.8	35.0	10.3	0.0	0.0	2.1	12.4	20.6	18.6	20.6
77.5°	53.6	43.3	20.6	2.1	0.0	0.0	2.1	12.4	20.6	18.6	20.6
80°	35.0	30.9	8.2	0.0	0.0	0.0	2.1	12.4	20.6	20.6	22.7
82.5°	22.7	16.5	0.0	0.0	0.0	0.0	4.1	16.5	22.7	24.7	24.7
85°	10.3	0.0	0.0	0.0	0.0	0.0	8.2	20.6	26.8	26.8	26.8
87.5°	0.0	0.0	0.0	0.0	0.0	4.1	14.4	24.7	30.9	30.9	30.9
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°	8961.9	8961.9	8961.9	8961.9	8961.9	8961.9	8961.9	8961.9	8961.9	8961.9	8961.9
2.5°	7370.7	7500.5	7684.0	7966.4	8195.1	8555.8	8832.0	9209.2	9590.5	9706.0	9885.3
5°	5425.0	5591.9	6008.3	6387.5	6626.6	7389.2	7871.5	8632.1	9314.4	9642.1	9998.7
7.5°	3767.8	3965.7	4283.1	4812.8	5315.7	5936.1	6715.2	7585.0	8584.7	9052.6	9555.5
10°	2644.5	2891.8	3339.1	3774.0	4406.7	4996.2	5765.0	6725.5	7828.3	8380.6	9011.4
12.5°	1669.5	1890.1	2481.6	2970.1	3759.5	4443.8	5152.9	6022.7	7300.6	7867.4	8529.1
15°	954.3	1139.8	1416.0	2042.6	2918.6	3823.4	4707.7	5717.6	7030.6	7729.3	8444.5
17.5°	711.1	760.6	884.2	1238.8	2036.4	3093.8	4297.5	5624.9	7214.0	8034.4	8850.6
20°	597.7	630.7	688.4	828.6	1298.5	2382.7	3897.6	5641.4	7807.6	8838.2	9613.2
22.5°	535.9	556.5	603.9	694.6	886.3	1735.5	3429.8	5738.3	8527.0	9825.5	10720.1
25°	469.9	496.7	538.0	616.3	737.9	1203.7	2968.1	5954.7	9534.9	11078.7	11919.7
27.5°	418.4	443.1	484.4	556.5	647.2	919.3	2430.1	6140.2	10598.5	12340.1	13028.6
30°	366.9	391.6	432.8	490.6	573.0	744.1	1850.9	6249.4	11631.1	13286.2	13815.9
32.5°	323.6	344.2	383.4	434.9	502.9	630.7	1459.3	6136.1	12420.5	14145.7	14500.2
35°	280.3	305.1	338.0	385.4	445.2	538.0	1214.0	5744.4	13098.6	15029.9	15157.7
37.5°	235.0	263.8	298.9	342.2	389.6	494.7	974.9	5311.6	13824.2	16132.6	15922.4
40°	197.9	224.7	257.6	305.1	348.3	453.5	750.3	4849.9	14607.4	17167.3	16757.2
42.5°	160.8	189.6	228.8	272.1	344.2	395.7	581.2	4371.7	15310.2	18068.1	17511.6
45°	127.8	152.5	193.7	249.4	342.2	340.1	449.3	3899.7	15840.0	18711.2	18074.3
47.5°	101.0	121.6	162.8	243.2	315.4	288.6	360.7	3607.0	16396.5	19290.3	18505.0
50°	80.4	101.0	140.2	253.5	276.2	247.3	303.0	3654.4	16934.4	19585.1	18682.3
52.5°	68.0	88.6	121.6	199.9	212.3	216.4	265.9	3872.9	17629.0	19900.4	19034.8
55°	59.8	78.3	103.1	140.2	164.9	193.7	243.2	4031.6	18558.6	20576.5	19811.8
57.5°	47.4	68.0	92.8	119.5	136.0	169.0	224.7	4044.0	19399.6	21444.2	20844.4
59°	43.3	61.8	86.6	113.4	121.6	152.5	212.3	3938.9	19430.5	21574.1	21318.5
60°	39.2	59.8	82.4	105.1	115.4	144.3	202.0	3817.3	19150.2	21368.0	21514.3
62.5°	33.0	51.5	72.1	84.5	98.9	119.5	175.2	3376.2	17791.9	20434.3	21151.6
65°	28.9	45.3	61.8	70.1	82.4	103.1	154.6	2702.2	16291.4	19168.7	20112.7
67.5°	26.8	41.2	53.6	59.8	72.1	94.8	138.1	1908.6	14347.7	17563.1	18552.4
70°	24.7	39.2	47.4	55.7	63.9	80.4	117.5	1113.0	11051.9	14747.6	15792.6
72.5°	24.7	37.1	41.2	47.4	55.7	72.1	109.2	601.9	7556.2	11249.8	12599.8
75°	24.7	35.0	37.1	41.2	49.5	66.0	96.9	315.4	4884.9	7815.9	9646.2
77.5°	24.7	33.0	37.1	39.2	47.4	57.7	84.5	197.9	3254.6	5474.4	6519.4
80°	26.8	33.0	35.0	39.2	45.3	53.6	70.1	131.9	1912.8	3293.7	3967.7
82.5°	28.9	33.0	37.1	41.2	47.4	51.5	61.8	82.4	882.2	2178.6	2465.1
85°	30.9	35.0	39.2	43.3	49.5	51.5	57.7	59.8	144.3	983.2	1329.4
87.5°	33.0	37.1	41.2	45.3	53.6	53.6	53.6	53.6	49.5	105.1	267.9
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: P457657

CATALOG NUMBER: GALN-SA9A-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8961.9	8961.9	8961.9	8961.9	8961.9	8961.9	8961.9	8961.9	8961.9	8961.9
2.5°	10112.0	10344.9	10507.8	10549.0	10431.5	10377.9	10229.5	9998.7	9858.5	9852.3
5°	10656.2	11202.4	11581.6	11645.5	11418.8	11035.4	10579.9	9992.5	9648.3	9545.2
7.5°	10563.4	11519.8	12129.9	12218.5	11837.2	11105.5	10223.3	9277.3	8902.1	8743.4
10°	10182.1	11348.7	12220.6	12360.7	11851.6	10821.1	9699.8	8644.5	8178.7	8057.0
12.5°	9856.4	11035.4	11810.4	12004.2	11618.7	10590.2	9386.5	8238.4	7739.6	7626.3
15°	9714.2	10664.4	11138.5	11237.4	11173.5	10445.9	9353.5	8176.6	7605.7	7482.0
17.5°	9856.4	10349.1	10408.8	10509.8	10652.0	10431.5	9670.9	8512.6	7896.3	7743.8
20°	10229.5	10074.9	9827.6	9870.9	10196.5	10491.3	10235.7	9256.6	8506.4	8343.5
22.5°	10864.3	10006.9	9446.3	9409.2	9821.4	10691.2	11064.3	10264.5	9394.7	9234.0
25°	11643.5	10178.0	9306.1	9225.7	9675.1	10983.9	11965.0	11499.2	10549.0	10303.7
27.5°	12492.7	10532.5	9306.1	9227.8	9662.7	11243.6	12735.9	12591.6	11744.5	11476.5
30°	12958.5	10825.2	9440.1	9351.5	9815.2	11394.1	13148.1	13562.4	12643.1	12311.3
32.5°	13374.8	11231.2	9701.8	9534.9	10134.7	11616.7	13517.0	14386.9	13358.3	13135.7
35°	13758.2	11666.1	10062.6	9868.8	10555.2	11921.7	13925.2	15252.5	14353.9	14017.9
37.5°	14180.7	12171.1	10625.2	10460.4	11258.0	12515.3	14409.5	16390.3	15332.9	14910.4
40°	14640.4	12756.5	11550.7	11480.6	12375.2	13187.3	15021.7	17604.3	16450.1	15969.8
42.5°	15108.3	13430.5	12684.3	12799.8	13640.7	14129.2	15650.3	18538.0	17365.2	16835.5
45°	15532.9	14292.0	14158.1	14729.0	15116.5	15048.5	16116.2	19195.5	18162.9	17655.8
47.5°	16068.8	15547.3	15941.0	16821.1	16831.4	16048.1	16468.6	19733.5	18849.2	18342.2
50°	16668.5	17029.2	18243.3	19139.9	18898.7	17031.3	16880.8	20370.4	19558.3	19152.2
52.5°	17363.2	18688.5	20370.4	21365.9	20803.2	18103.1	17567.2	21058.8	20683.7	20294.1
55°	18171.1	19820.1	22491.3	23284.9	22718.0	19434.6	18610.2	21992.5	21955.4	21689.5
57.5°	19084.2	21015.5	23719.8	24793.6	24288.6	20997.0	20067.4	22872.6	22732.5	22584.1
59°	19805.6	21629.7	24261.8	25374.9	25069.8	22091.4	21046.4	23420.9	22911.8	22689.2
60°	20242.6	22046.1	24461.8	25453.2	25383.1	22742.8	21666.8	23688.8	22909.7	22600.5
62.5°	21539.1	22773.7	24385.5	25104.8	25379.0	23991.8	23486.8	23983.6	22485.1	22031.7
65°	22000.8	22532.5	23122.0	23033.4	23268.4	23927.9	24649.3	23660.0	21578.2	20933.1
67.5°	21102.1	19888.1	20096.2	19504.7	19389.3	21273.2	24177.3	22077.0	19803.6	19014.1
70°	17787.8	15236.0	15130.9	15403.0	14656.9	17223.0	21710.1	19028.6	16874.7	15980.1
72.5°	14001.4	10767.5	9881.2	10882.9	10860.2	13139.9	18035.1	13502.6	11400.2	11324.0
75°	11010.7	7496.4	6579.2	6742.0	7055.3	9512.2	14364.2	8574.4	7020.3	6397.8
77.5°	7391.3	5311.6	4955.0	4755.1	5093.1	6107.2	9087.6	4650.0	3936.8	3728.6
80°	4260.4	3858.5	4382.0	3978.0	4159.4	3848.2	4520.1	2133.3	1770.5	1916.9
82.5°	2772.3	2197.2	2341.5	1739.6	2378.6	2399.2	1451.1	630.7	533.8	566.8
85°	1733.4	1030.6	579.2	412.2	820.3	1508.8	453.5	39.2	45.3	39.2
87.5°	449.3	171.1	72.1	107.2	131.9	117.5	105.1	6.2	2.1	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)