

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: P455482

Luminaire Tested: **GALN-SA6C-830-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455482
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-SA6C-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 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: 23791 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 321
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



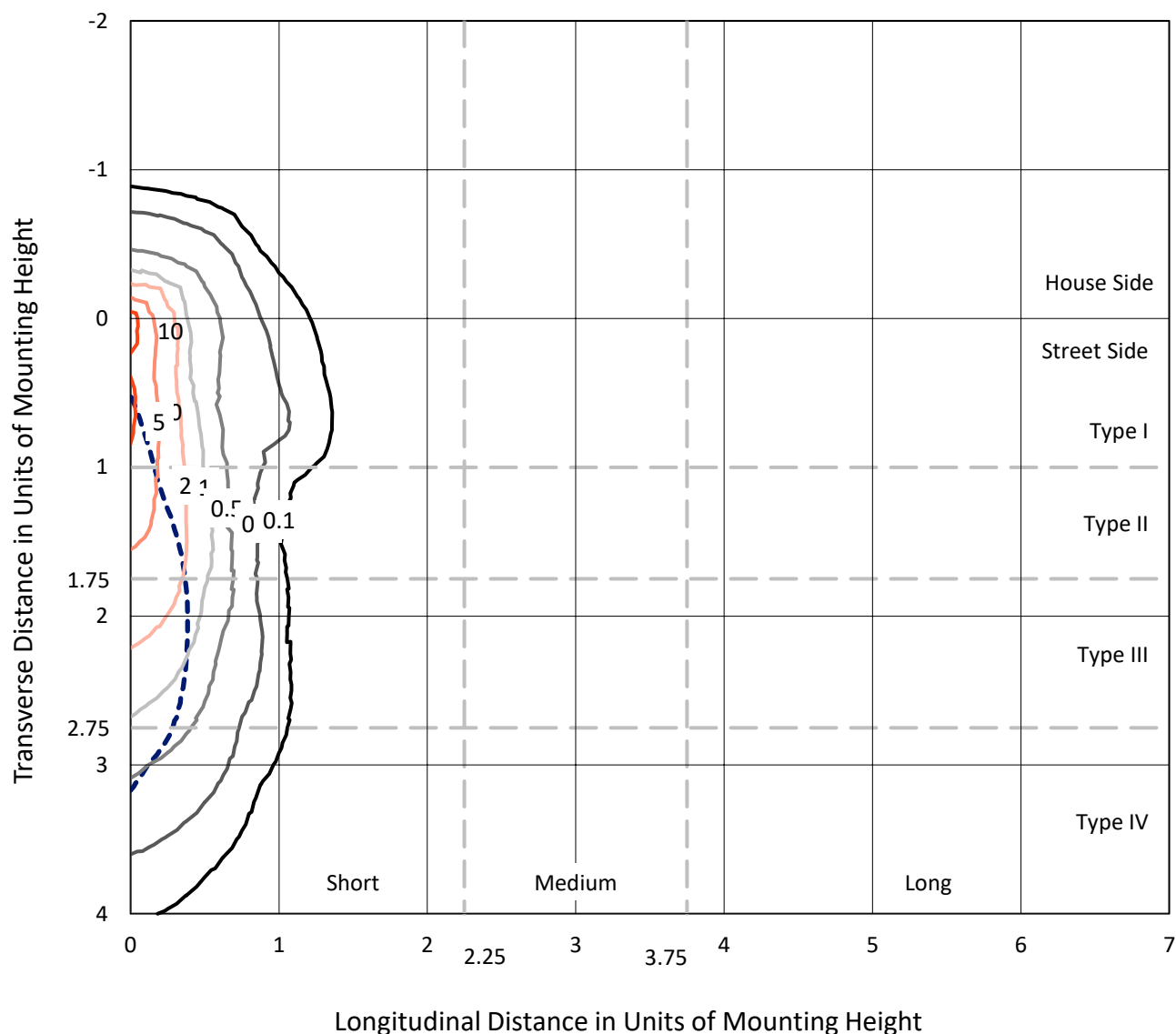
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

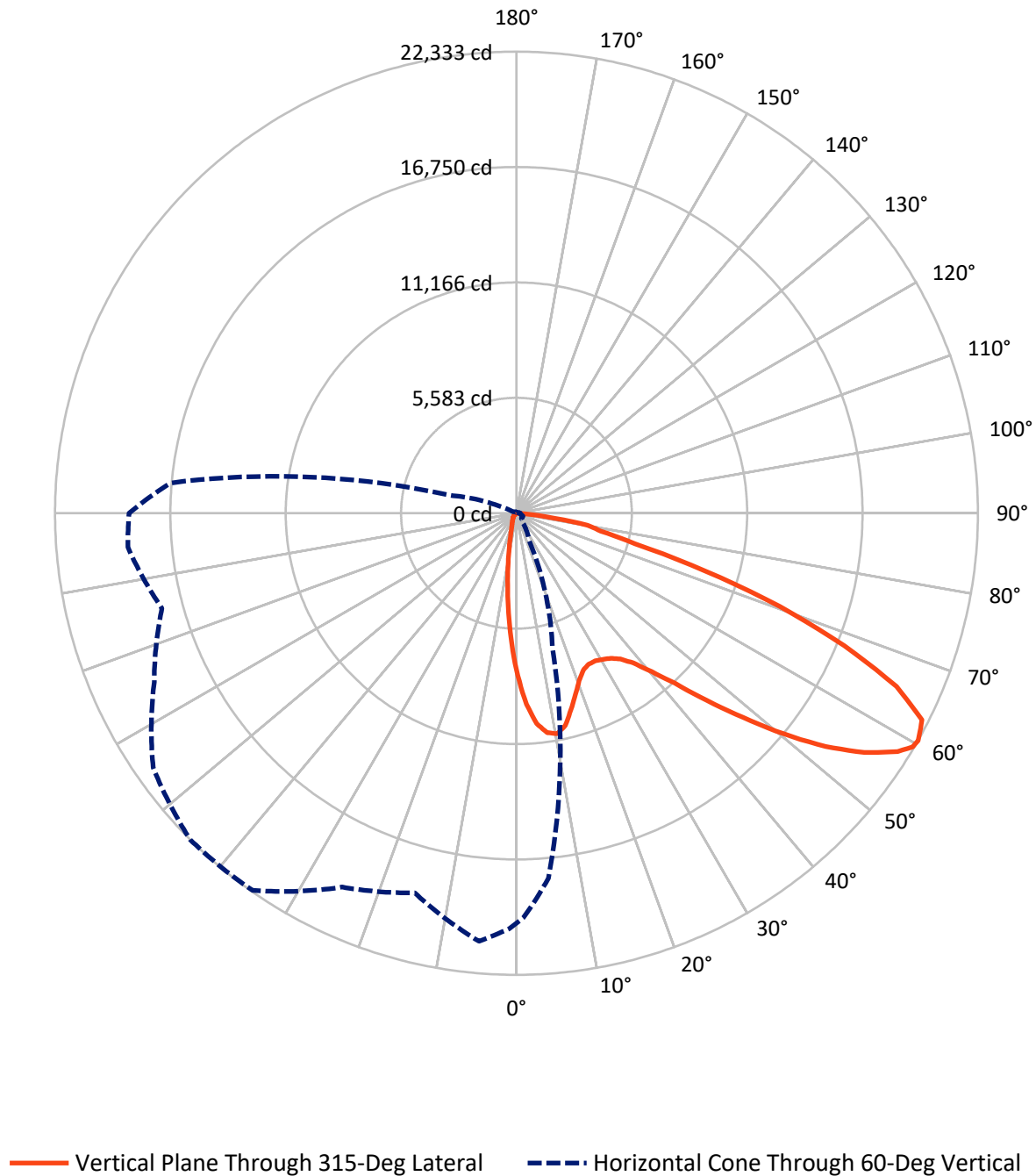


Based on 25 foot mounting height. Maximum calculated value = 12.6 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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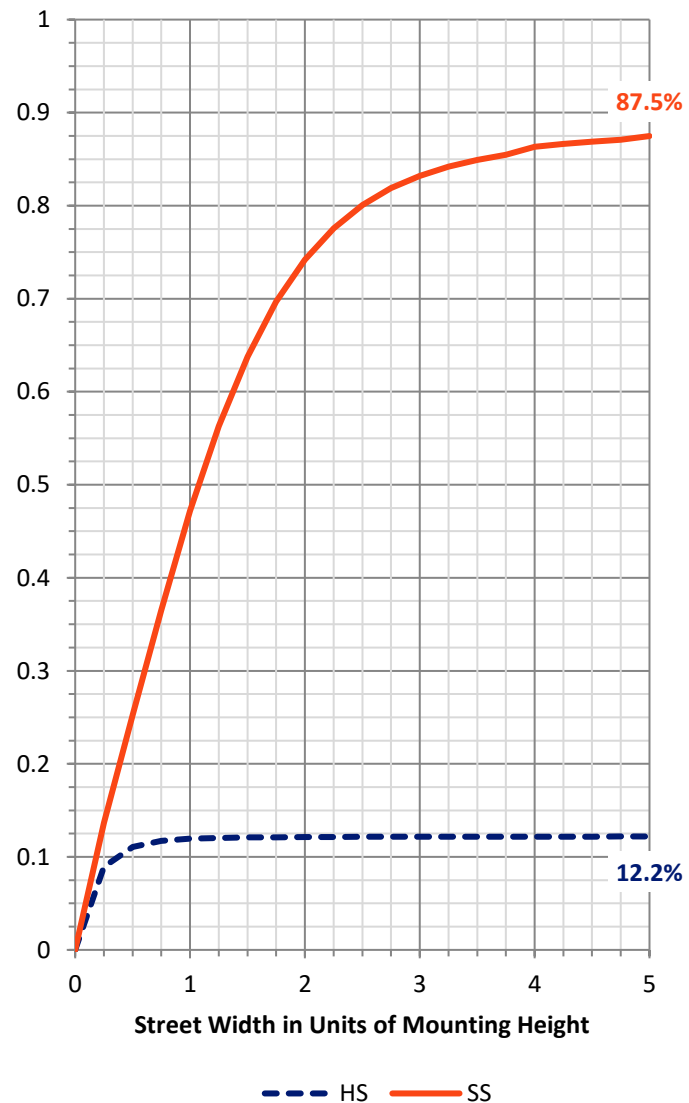
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2934.4	0.0	2934.4
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	20856.6	0.0	20856.6
	% Fixture	87.7	0.0	87.7
Total	Lumens	23791.0	0.0	23791.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	584.8	2.5
10°-20°	1161.5	4.9
20°-30°	1703.1	7.2
30°-40°	2532.8	10.6
40°-50°	3686.0	15.5
50°-60°	5315.5	22.3
60°-70°	5846.4	24.6
70°-80°	2618.7	11.0
80°-90°	342.2	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°	23791.0	100.0
0°-180°	23791.0	100.0

Coefficient of Utilization



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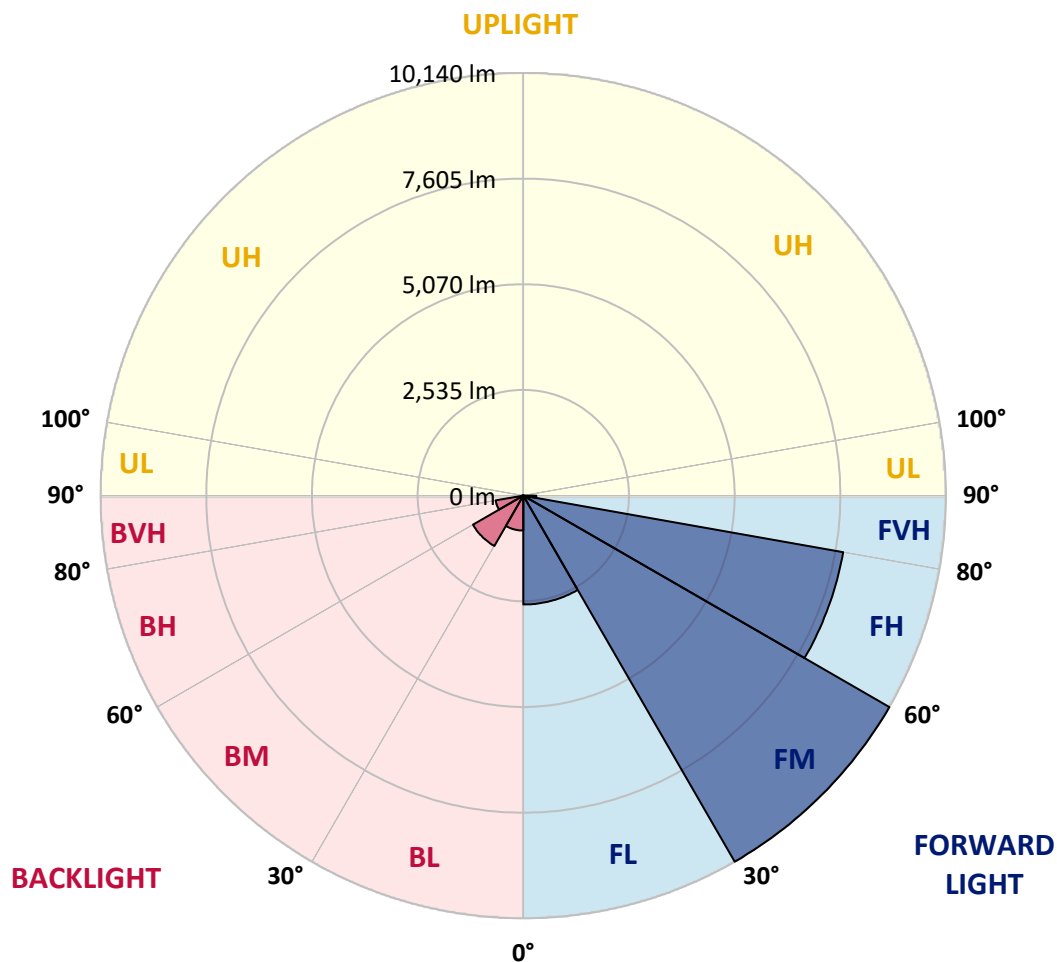
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2611.0	11.0			
FM	(30°-60°)	10140.5	42.6			
FH	(60°-80°)	7792.3	32.8			G4/12000
FVH	(80°-90°)	312.9	1.3			G3/500
BL	(0°-30°)	838.5	3.5	B2/1000		
BM	(30°-60°)	1393.8	5.9	B2/2500		
BH	(60°-80°)	672.9	2.8	B2/1000		G2/1000
BVH	(80°-90°)	29.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	7863.3	7863.3	7863.3	7863.3	7863.3	7863.3	7863.3	7863.3	7863.3	7863.3	7863.3
2.5°	8644.5	8606.6	8519.7	8255.7	8026.0	7725.8	7422.0	7183.3	7036.8	6767.3	6644.4
5°	8375.1	8393.1	8141.8	7599.2	6995.2	6582.9	6132.6	5774.5	5380.2	5130.7	4868.4
7.5°	7671.6	7635.4	7362.3	6606.4	5872.1	5275.3	4705.7	4242.7	3951.5	3718.2	3522.9
10°	7069.3	7042.2	6693.2	5720.2	4931.7	4485.0	4099.8	3694.7	3381.9	3040.1	2767.0
12.5°	6691.4	6629.9	6228.4	5212.0	4570.0	4154.1	3734.5	3313.1	2880.9	2535.5	2204.5
15°	6564.8	6476.2	6029.5	5036.6	4338.5	3810.5	3284.2	2799.5	2302.2	1920.6	1671.0
17.5°	6794.5	6648.0	6172.3	5005.9	4061.8	3362.0	2714.5	2083.4	1566.1	1275.0	1121.3
20°	7320.7	7152.5	6534.0	4975.1	3754.4	2859.2	2063.5	1472.1	1083.3	924.1	839.1
22.5°	8102.0	7870.5	7069.3	5024.0	3470.5	2369.1	1490.2	1039.9	860.8	761.4	701.7
25°	9040.6	8847.1	7747.5	5197.6	3246.2	1983.9	1152.0	850.0	725.2	663.7	618.5
27.5°	10069.6	9760.4	8624.6	5405.5	3041.9	1685.5	1010.9	759.6	645.6	589.6	566.1
30°	10802.0	10561.5	9358.9	5550.2	2786.9	1461.3	924.1	748.7	647.4	580.5	537.1
32.5°	11525.4	11218.0	9973.8	5617.1	2600.6	1305.7	799.3	652.9	567.9	533.5	490.1
35°	12299.5	11977.6	10586.8	5581.0	2461.3	1202.6	725.2	582.3	486.5	428.6	385.2
37.5°	13082.5	12742.5	11196.3	5450.8	2374.5	1161.0	667.3	553.4	459.4	399.7	352.7
40°	14012.1	13558.2	11767.8	5344.1	2284.1	1139.3	629.4	535.3	439.5	376.2	329.1
42.5°	14771.7	14339.4	12308.5	5288.0	2222.6	1088.7	629.4	520.8	426.8	356.3	307.4
45°	15491.4	15042.9	12892.6	5333.2	2197.3	1025.4	636.6	519.0	417.8	341.8	293.0
47.5°	16093.7	15704.8	13493.1	5503.2	2164.7	956.7	598.6	544.4	412.3	329.1	278.5
50°	16804.4	16428.2	14287.0	5846.8	2106.9	888.0	551.6	585.9	410.5	318.3	265.8
52.5°	17806.3	17399.4	15382.9	6237.4	2014.6	783.1	508.2	580.5	403.3	300.2	253.2
55°	19030.6	18701.5	16652.5	6705.8	1888.1	665.5	439.5	515.4	381.6	269.5	231.5
57.5°	19815.5	19535.2	17603.7	6908.4	1694.5	544.4	387.0	432.2	349.0	240.5	206.2
59°	19907.7	19654.5	17802.7	6841.5	1568.0	497.3	361.7	370.7	340.0	224.3	191.7
60°	19830.0	19567.7	17723.1	6711.3	1450.4	464.8	340.0	329.1	341.8	215.2	180.8
62.5°	19330.8	18882.3	16950.9	6051.2	1267.7	426.8	302.0	269.5	302.0	193.5	161.0
65°	18366.9	17694.2	15422.7	5121.6	1195.4	405.1	256.8	226.1	229.7	170.0	139.3
67.5°	16683.2	15835.0	13388.2	4161.3	1164.7	406.9	217.0	202.5	177.2	144.7	123.0
70°	14021.1	13174.8	10742.4	3423.5	1150.2	406.9	184.5	173.6	148.3	121.2	106.7
72.5°	9935.8	9024.3	7246.6	2689.2	1036.3	405.1	157.3	157.3	121.2	101.3	86.8
75°	5613.5	5620.8	4555.6	1902.5	860.8	334.6	126.6	124.8	88.6	77.8	65.1
77.5°	3271.5	3213.7	3070.8	817.4	399.7	151.9	88.6	76.0	61.5	56.1	47.0
80°	1681.9	1383.5	1347.3	296.6	142.9	95.8	61.5	43.4	39.8	36.2	32.6
82.5°	497.3	499.1	444.9	119.4	79.6	63.3	30.7	23.5	21.7	19.9	19.9
85°	34.4	21.7	25.3	36.2	48.8	25.3	1.8	5.4	5.4	7.2	9.0
87.5°	3.6	1.8	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°	7863.3	7863.3	7863.3	7863.3	7863.3	7863.3	7863.3	7863.3	7863.3	7863.3	7863.3
2.5°	6508.7	6588.3	6440.0	6443.6	6320.6	6360.4	6215.7	6262.8	6177.8	6242.9	6434.6
5°	4897.4	4915.4	4796.1	4758.1	4776.2	4850.3	4879.3	4747.3	4803.3	4693.0	4685.8
7.5°	3450.6	3472.3	3403.6	3394.5	3524.7	3494.0	3550.0	3414.4	3286.0	3342.1	3239.0
10°	2680.2	2589.7	2448.7	2408.9	2383.6	2399.9	2399.9	2276.9	2258.8	2210.0	2284.1
12.5°	2115.9	2005.6	1871.8	1690.9	1645.7	1642.1	1575.2	1466.7	1432.3	1390.7	1452.2
15°	1537.2	1492.0	1379.9	1278.6	1175.5	1155.6	1047.1	958.5	840.9	824.7	819.2
17.5°	1081.5	1014.6	1012.7	954.9	895.2	855.4	754.1	652.9	607.6	602.2	602.2
20°	810.2	786.7	748.7	741.5	723.4	678.2	587.8	533.5	511.8	513.6	520.8
22.5°	681.8	665.5	631.2	614.9	607.6	567.9	500.9	464.8	453.9	453.9	455.7
25°	609.5	595.0	557.0	531.7	522.7	493.7	441.3	414.1	405.1	405.1	405.1
27.5°	555.2	537.1	497.3	475.6	459.4	426.8	394.2	367.1	358.1	358.1	359.9
30°	517.2	497.3	461.2	432.2	406.9	378.0	350.8	327.3	316.5	314.7	316.5
32.5°	466.6	448.5	412.3	394.2	365.3	331.0	309.2	287.5	276.7	278.5	276.7
35°	363.5	358.1	332.8	338.2	321.9	293.0	273.1	249.6	236.9	235.1	238.7
37.5°	331.0	309.2	280.3	282.1	276.7	265.8	233.3	208.0	198.9	198.9	200.7
40°	305.6	283.9	251.4	235.1	236.9	236.9	202.5	175.4	166.4	164.6	168.2
42.5°	283.9	262.2	226.1	198.9	191.7	200.7	171.8	144.7	135.6	132.0	135.6
45°	269.5	246.0	204.4	173.6	151.9	162.8	141.1	119.4	108.5	108.5	106.7
47.5°	255.0	233.3	188.1	150.1	126.6	121.2	115.7	95.8	85.0	83.2	85.0
50°	242.3	220.6	170.0	130.2	106.7	94.0	94.0	76.0	68.7	65.1	66.9
52.5°	229.7	206.2	153.7	115.7	92.2	76.0	66.9	61.5	56.1	54.3	56.1
55°	211.6	188.1	137.4	99.5	79.6	63.3	52.4	50.6	47.0	43.4	47.0
57.5°	189.9	168.2	121.2	85.0	63.3	48.8	43.4	41.6	38.0	36.2	36.2
59°	177.2	157.3	112.1	74.1	56.1	43.4	39.8	38.0	34.4	30.7	32.6
60°	170.0	153.7	106.7	68.7	50.6	39.8	36.2	34.4	30.7	28.9	30.7
62.5°	150.1	137.4	94.0	56.1	39.8	28.9	25.3	27.1	25.3	23.5	25.3
65°	132.0	121.2	79.6	43.4	30.7	19.9	18.1	23.5	21.7	19.9	21.7
67.5°	117.6	104.9	66.9	32.6	21.7	10.9	12.7	19.9	19.9	18.1	19.9
70°	101.3	90.4	54.3	23.5	10.9	5.4	9.0	14.5	18.1	16.3	18.1
72.5°	83.2	70.5	41.6	16.3	5.4	0.0	5.4	12.7	18.1	16.3	18.1
75°	65.1	52.4	30.7	9.0	0.0	0.0	1.8	10.9	18.1	16.3	18.1
77.5°	47.0	38.0	18.1	1.8	0.0	0.0	1.8	10.9	18.1	16.3	18.1
80°	30.7	27.1	7.2	0.0	0.0	0.0	1.8	10.9	18.1	18.1	19.9
82.5°	19.9	14.5	0.0	0.0	0.0	0.0	3.6	14.5	19.9	21.7	21.7
85°	9.0	0.0	0.0	0.0	0.0	0.0	7.2	18.1	23.5	23.5	23.5
87.5°	0.0	0.0	0.0	0.0	0.0	3.6	12.7	21.7	27.1	27.1	27.1
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°	7863.3	7863.3	7863.3	7863.3	7863.3	7863.3	7863.3	7863.3	7863.3	7863.3	7863.3
2.5°	6467.1	6581.1	6742.0	6989.8	7190.5	7507.0	7749.3	8080.3	8414.9	8516.1	8673.5
5°	4759.9	4906.4	5271.7	5604.5	5814.3	6483.4	6906.6	7573.9	8172.5	8460.1	8772.9
7.5°	3305.9	3479.5	3758.0	4222.8	4664.1	5208.4	5892.0	6655.2	7532.3	7942.8	8384.1
10°	2320.3	2537.3	2929.7	3311.3	3866.5	4383.8	5058.3	5901.1	6868.6	7353.3	7906.7
12.5°	1464.9	1658.4	2177.4	2606.0	3298.7	3899.1	4521.2	5284.4	6405.6	6903.0	7483.5
15°	837.3	1000.1	1242.4	1792.2	2560.8	3354.7	4130.6	5016.7	6168.7	6781.8	7409.3
17.5°	623.9	667.3	775.8	1086.9	1786.8	2714.5	3770.7	4935.3	6329.7	7049.5	7765.6
20°	524.5	553.4	604.0	727.0	1139.3	2090.6	3419.8	4949.8	6850.5	7754.8	8434.7
22.5°	470.2	488.3	529.9	609.5	777.6	1522.7	3009.3	5034.8	7481.7	8621.0	9405.9
25°	412.3	435.8	472.0	540.7	647.4	1056.2	2604.2	5224.7	8366.0	9720.6	10458.4
27.5°	367.1	388.8	425.0	488.3	567.9	806.6	2132.2	5387.5	9299.2	10827.4	11431.4
30°	321.9	343.6	379.8	430.4	502.8	652.9	1624.0	5483.3	10205.2	11657.5	12122.2
32.5°	283.9	302.0	336.4	381.6	441.3	553.4	1280.4	5383.8	10897.9	12411.6	12722.6
35°	246.0	267.7	296.6	338.2	390.6	472.0	1065.2	5040.2	11492.9	13187.4	13299.6
37.5°	206.2	231.5	262.2	300.2	341.8	434.0	855.4	4660.4	12129.5	14155.0	13970.5
40°	173.6	197.1	226.1	267.7	305.6	397.9	658.3	4255.4	12816.7	15062.8	14702.9
42.5°	141.1	166.4	200.7	238.7	302.0	347.2	510.0	3835.8	13433.4	15853.1	15364.8
45°	112.1	133.8	170.0	218.8	300.2	298.4	394.2	3421.6	13898.2	16417.4	15858.6
47.5°	88.6	106.7	142.9	213.4	276.7	253.2	316.5	3164.8	14386.4	16925.6	16236.5
50°	70.5	88.6	123.0	222.4	242.3	217.0	265.8	3206.4	14858.5	17184.2	16392.1
52.5°	59.7	77.8	106.7	175.4	186.3	189.9	233.3	3398.1	15467.9	17460.9	16701.3
55°	52.4	68.7	90.4	123.0	144.7	170.0	213.4	3537.4	16283.5	18054.0	17383.1
57.5°	41.6	59.7	81.4	104.9	119.4	148.3	197.1	3548.2	17021.4	18815.4	18289.1
59°	38.0	54.3	76.0	99.5	106.7	133.8	186.3	3456.0	17048.5	18929.3	18705.1
60°	34.4	52.4	72.3	92.2	101.3	126.6	177.2	3349.3	16802.6	18748.5	18876.9
62.5°	28.9	45.2	63.3	74.1	86.8	104.9	153.7	2962.3	15610.8	17929.3	18558.6
65°	25.3	39.8	54.3	61.5	72.3	90.4	135.6	2370.9	14294.2	16818.9	17647.1
67.5°	23.5	36.2	47.0	52.4	63.3	83.2	121.2	1674.7	12588.8	15410.0	16278.1
70°	21.7	34.4	41.6	48.8	56.1	70.5	103.1	976.6	9697.1	12939.7	13856.6
72.5°	21.7	32.6	36.2	41.6	48.8	63.3	95.8	528.1	6629.9	9870.7	11055.2
75°	21.7	30.7	32.6	36.2	43.4	57.9	85.0	276.7	4286.1	6857.8	8463.7
77.5°	21.7	28.9	32.6	34.4	41.6	50.6	74.1	173.6	2855.6	4803.3	5720.2
80°	23.5	28.9	30.7	34.4	39.8	47.0	61.5	115.7	1678.3	2889.9	3481.3
82.5°	25.3	28.9	32.6	36.2	41.6	45.2	54.3	72.3	774.0	1911.6	2162.9
85°	27.1	30.7	34.4	38.0	43.4	45.2	50.6	52.4	126.6	862.6	1166.5
87.5°	28.9	32.6	36.2	39.8	47.0	47.0	47.0	47.0	43.4	92.2	235.1
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: P455482

CATALOG NUMBER: GALN-SA6C-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7863.3	7863.3	7863.3	7863.3	7863.3	7863.3	7863.3	7863.3	7863.3	7863.3
2.5°	8872.4	9076.8	9219.6	9255.8	9152.7	9105.7	8975.5	8772.9	8650.0	8644.5
5°	9349.8	9829.1	10161.8	10217.9	10019.0	9682.6	9282.9	8767.5	8465.5	8375.1
7.5°	9268.5	10107.6	10642.9	10720.7	10386.1	9744.1	8970.1	8140.0	7810.8	7671.6
10°	8933.9	9957.5	10722.5	10845.4	10398.8	9494.5	8510.7	7584.8	7176.0	7069.3
12.5°	8648.1	9682.6	10362.6	10532.6	10194.4	9292.0	8235.8	7228.5	6790.8	6691.4
15°	8523.4	9357.1	9773.0	9859.8	9803.8	9165.4	8206.9	7174.2	6673.3	6564.8
17.5°	8648.1	9080.4	9132.8	9221.4	9346.2	9152.7	8485.4	7469.0	6928.3	6794.5
20°	8975.5	8839.8	8622.8	8660.8	8946.5	9205.2	8980.9	8121.9	7463.6	7320.7
22.5°	9532.5	8780.2	8288.3	8255.7	8617.4	9380.6	9707.9	9006.2	8243.0	8102.0
25°	10216.1	8930.3	8165.3	8094.8	8489.0	9637.4	10498.2	10089.5	9255.8	9040.6
27.5°	10961.2	9241.3	8165.3	8096.6	8478.1	9865.3	11174.6	11048.0	10304.7	10069.6
30°	11369.9	9498.1	8282.8	8205.1	8612.0	9997.3	11536.3	11899.8	11093.2	10802.0
32.5°	11735.2	9854.4	8512.5	8366.0	8892.3	10192.6	11860.0	12623.2	11720.8	11525.4
35°	12071.6	10236.0	8829.0	8659.0	9261.2	10460.2	12218.1	13382.7	12594.2	12299.5
37.5°	12442.3	10679.1	9322.7	9178.0	9877.9	10981.1	12643.1	14381.0	13453.3	13082.5
40°	12845.6	11192.7	10134.7	10073.2	10858.1	11570.6	13180.2	15446.2	14433.5	14012.1
42.5°	13256.1	11784.0	11129.4	11230.7	11968.5	12397.1	13731.8	16265.5	15236.4	14771.7
45°	13628.7	12540.0	12422.4	12923.4	13263.4	13203.7	14140.5	16842.4	15936.3	15491.4
47.5°	14098.9	13641.4	13986.8	14759.0	14768.0	14080.8	14449.7	17314.4	16538.5	16093.7
50°	14625.2	14941.7	16006.8	16793.5	16581.9	14943.5	14811.4	17873.2	17160.7	16804.4
52.5°	15234.6	16397.5	17873.2	18746.7	18253.0	15883.9	15413.7	18477.2	18148.1	17806.3
55°	15943.5	17390.3	19734.1	20430.4	19933.1	17052.1	16328.8	19296.5	19263.9	19030.6
57.5°	16744.7	18439.2	20812.0	21754.2	21311.1	18423.0	17607.3	20068.7	19945.7	19815.5
59°	17377.7	18978.2	21287.6	22264.2	21996.5	19383.3	18466.4	20549.7	20103.0	19907.7
60°	17761.1	19343.5	21463.0	22332.9	22271.4	19954.8	19010.7	20784.8	20101.2	19830.0
62.5°	18898.6	19981.9	21396.1	22027.3	22267.8	21050.7	20607.6	21043.5	19728.7	19330.8
65°	19303.7	19770.3	20287.5	20209.7	20415.9	20994.6	21627.6	20759.5	18933.0	18366.9
67.5°	18515.2	17450.0	17632.7	17113.6	17012.4	18665.3	21213.5	19370.6	17375.9	16683.2
70°	15607.2	13368.3	13276.0	13514.8	12860.1	15111.6	19048.7	16695.9	14806.0	14021.1
72.5°	12285.0	9447.5	8669.8	9548.8	9528.9	11529.1	15824.2	11847.3	10002.7	9935.8
75°	9660.9	6577.4	5772.7	5915.5	6190.4	8346.1	12603.3	7523.3	6159.7	5613.5
77.5°	6485.2	4660.4	4347.6	4172.2	4468.8	5358.5	7973.6	4079.9	3454.2	3271.5
80°	3738.1	3385.5	3844.8	3490.4	3649.5	3376.4	3966.0	1871.8	1553.5	1681.9
82.5°	2432.4	1927.8	2054.4	1526.4	2087.0	2105.1	1273.2	553.4	468.4	497.3
85°	1520.9	904.2	508.2	361.7	719.8	1323.8	397.9	34.4	39.8	34.4
87.5°	394.2	150.1	63.3	94.0	115.7	103.1	92.2	5.4	1.8	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)