

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: P529979

Luminaire Tested: **GALN-SA5A-830-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-830-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10061 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 154
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



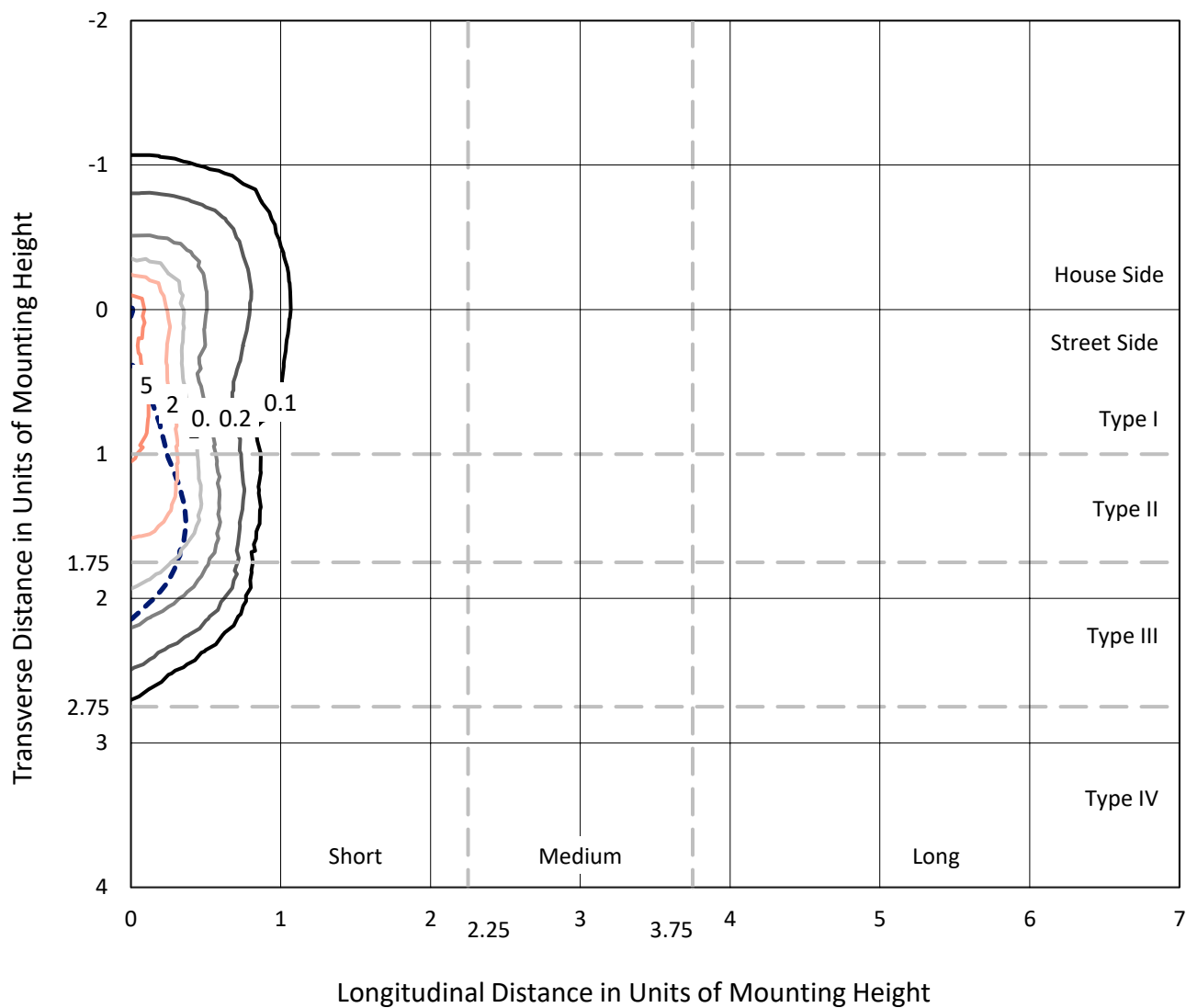
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

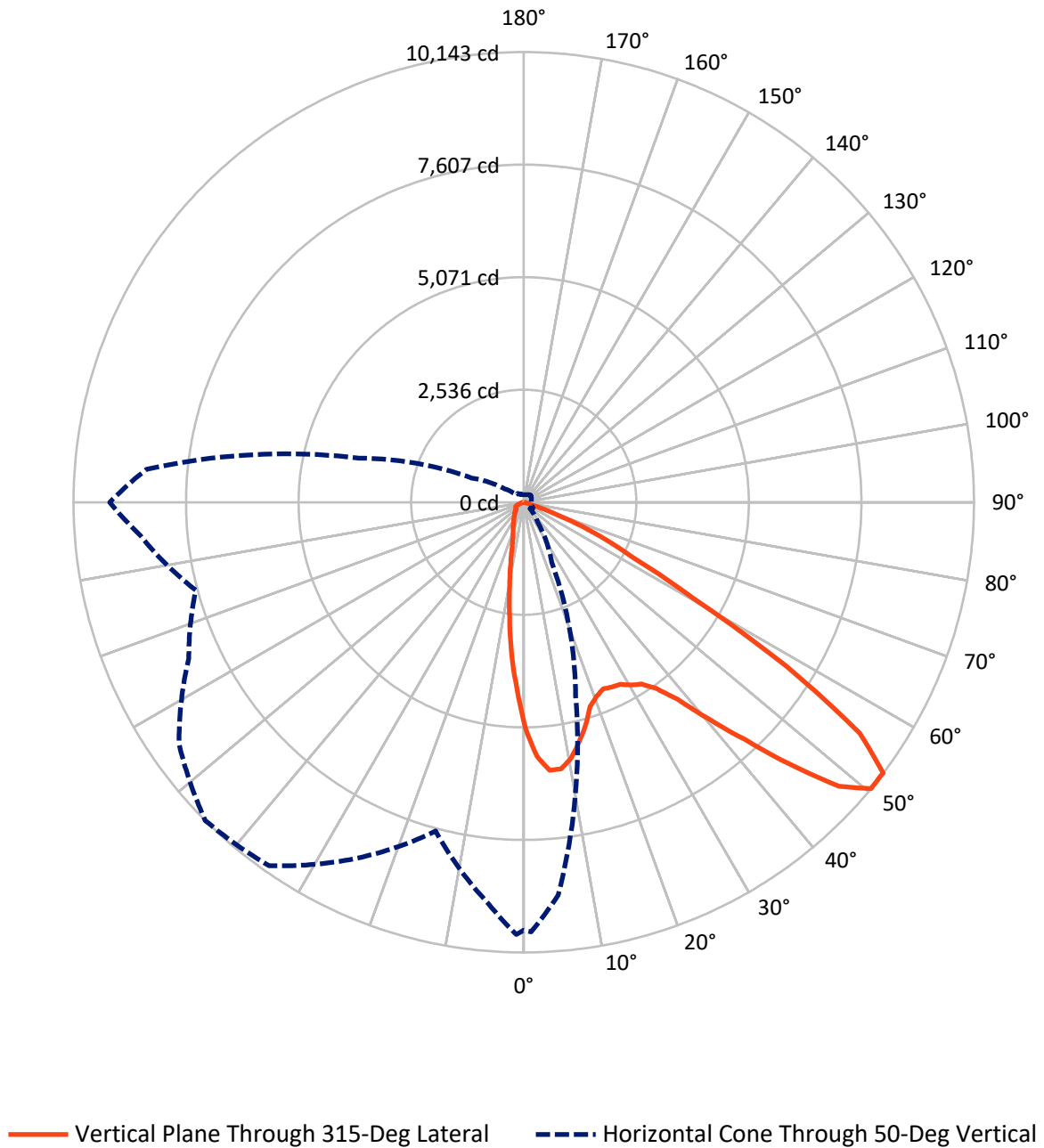


Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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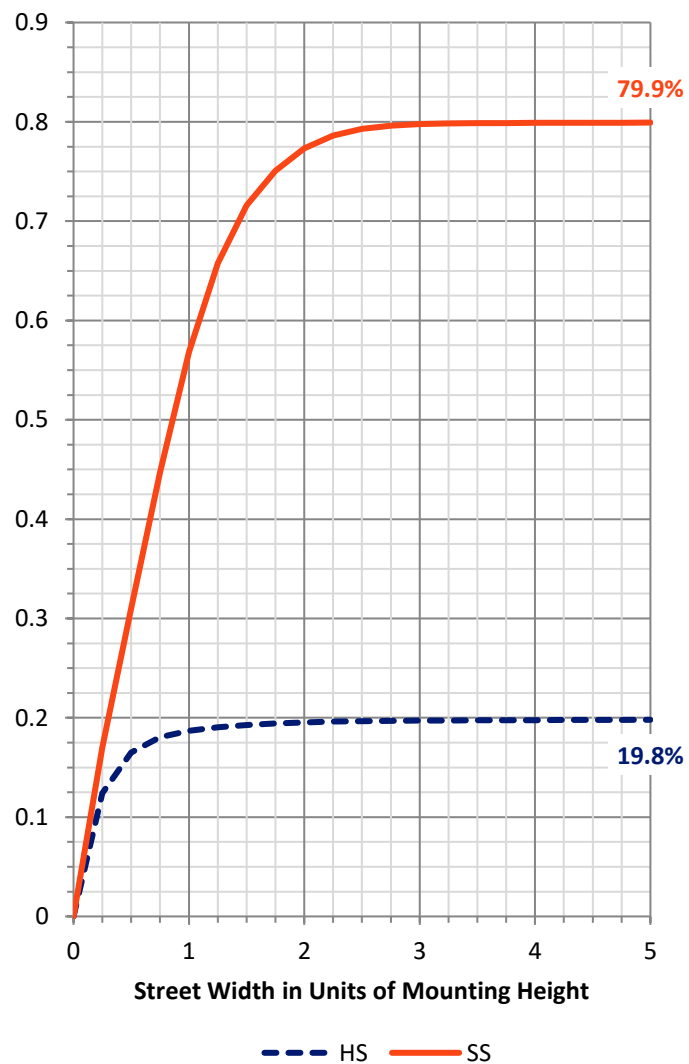
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2015.2	0.0	2015.2
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	8045.8	0.0	8045.8
	% Fixture	80.0	0.0	80.0
Total	Lumens	10061.0	0.0	10061.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.9	3.7
10°-20°	739.1	7.3
20°-30°	1110.4	11.0
30°-40°	1666.7	16.6
40°-50°	2342.4	23.3
50°-60°	2526.7	25.1
60°-70°	1173.1	11.7
70°-80°	110.4	1.1
80°-90°	20.4	0.2
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°	10061.0	100.0
0°-180°	10061.0	100.0

Coefficient of Utilization



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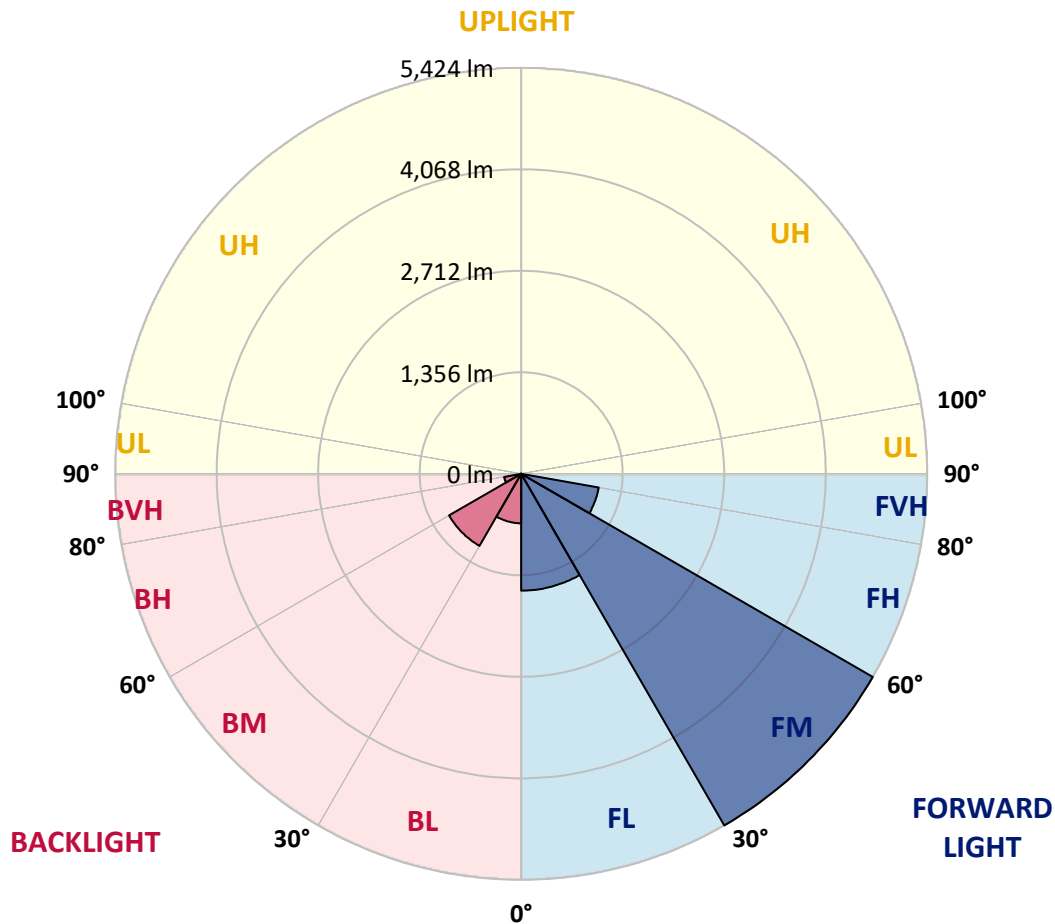
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1560.9	15.5			
FM	(30°-60°)	5423.6	53.9			
FH	(60°-80°)	1052.1	10.5			G1/1800
FVH	(80°-90°)	9.2	0.1			G0/10
BL	(0°-30°)	660.5	6.6	B2/1000		
BM	(30°-60°)	1112.1	11.1	B2/2500		
BH	(60°-80°)	231.4	2.3	B1/500		G1/500
BVH	(80°-90°)	11.2	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5102.2	5102.2	5102.2	5102.2	5102.2	5102.2	5102.2	5102.2	5102.2	5102.2	5102.2
2.5°	5303.8	5222.0	5118.2	5032.3	4904.6	4647.1	4577.2	4493.4	4423.5	4329.7	4197.9
5°	4822.7	4796.8	4748.9	4425.5	4191.9	3880.5	3625.0	3517.2	3375.5	3259.7	3175.9
7.5°	4455.4	4351.6	4199.9	3874.6	3501.3	3167.9	2884.5	2718.8	2531.1	2467.3	2353.5
10°	4062.2	4086.1	3862.6	3405.5	2954.3	2684.8	2509.2	2349.5	2179.8	2068.0	1906.3
12.5°	3936.4	3858.6	3686.9	3122.0	2736.7	2485.2	2271.6	2074.0	1894.4	1714.7	1559.0
15°	4018.3	3898.5	3659.0	3062.1	2569.1	2255.7	1988.2	1720.7	1555.0	1325.5	1163.8
17.5°	4311.7	4215.9	3894.5	3126.0	2483.2	2036.1	1638.9	1363.4	1109.9	902.3	820.4
20°	4800.8	4665.0	4261.8	3207.8	2355.5	1770.6	1329.4	990.1	750.6	662.7	616.8
22.5°	5279.9	5206.0	4697.0	3365.5	2241.7	1535.1	998.1	666.7	560.9	545.0	515.0
25°	6192.1	5970.5	5361.7	3651.0	2153.9	1313.5	752.6	537.0	475.1	463.1	467.1
27.5°	6735.1	6549.4	5976.5	3840.6	2056.0	1143.8	636.8	493.1	451.1	425.2	415.2
30°	7256.1	7040.5	6281.9	3952.4	1846.5	964.1	564.9	473.1	463.1	425.2	413.2
32.5°	7657.3	7445.7	6723.1	4120.1	1760.6	848.4	465.1	369.3	343.3	339.3	375.3
35°	8272.1	8046.5	7100.4	4211.9	1694.7	788.5	403.2	329.4	299.4	287.4	289.4
37.5°	8845.0	8691.3	7449.7	4247.8	1624.9	770.5	361.3	295.4	269.5	261.5	259.5
40°	9324.1	8980.7	7781.0	4285.8	1594.9	736.6	335.4	269.5	251.5	239.5	239.5
42.5°	9543.7	9194.3	8152.3	4263.8	1587.0	682.7	335.4	247.5	233.6	221.6	219.6
45°	9495.8	9354.0	8318.0	4253.8	1587.0	628.8	305.4	241.5	221.6	205.6	201.6
47.5°	9619.5	9433.9	8525.6	4295.7	1555.0	590.9	257.5	253.5	209.6	189.6	185.6
50°	9641.5	9677.4	8886.9	4513.3	1485.1	543.0	201.6	249.5	201.6	171.7	167.7
52°	9785.2	9561.6	8996.7	4629.1	1411.3	507.0	169.7	213.6	193.6	159.7	155.7
52.5°	9587.6	9733.3	9022.7	4671.0	1419.3	483.1	163.7	209.6	189.6	159.7	149.7
55°	9366.0	9505.7	8916.9	4760.9	1301.5	379.3	127.8	151.7	171.7	139.7	133.7
57.5°	8140.4	8282.1	7749.1	4359.6	1060.0	267.5	105.8	113.8	151.7	129.8	123.8
60°	7236.1	7134.3	6503.5	3637.0	752.6	149.7	83.8	87.8	165.7	119.8	117.8
62.5°	6613.3	6395.7	5435.6	2808.6	459.1	99.8	65.9	67.9	127.8	111.8	111.8
65°	4892.6	4649.1	3611.1	1698.7	225.6	69.9	49.9	53.9	79.8	95.8	95.8
67.5°	2792.6	2698.8	1744.6	766.5	93.8	43.9	37.9	41.9	61.9	77.9	73.9
70°	1283.5	1151.8	670.7	161.7	43.9	29.9	29.9	33.9	49.9	57.9	53.9
72.5°	375.3	355.3	163.7	26.0	18.0	18.0	20.0	26.0	37.9	43.9	39.9
75°	27.9	18.0	12.0	8.0	8.0	12.0	16.0	26.0	37.9	41.9	33.9
77.5°	2.0	4.0	2.0	2.0	6.0	12.0	18.0	31.9	49.9	51.9	37.9
80°	2.0	2.0	0.0	2.0	6.0	12.0	20.0	35.9	55.9	59.9	31.9
82.5°	0.0	0.0	0.0	2.0	8.0	16.0	24.0	37.9	51.9	63.9	33.9
85°	0.0	0.0	0.0	2.0	12.0	22.0	27.9	10.0	6.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5102.2	5102.2	5102.2	5102.2	5102.2	5102.2	5102.2	5102.2	5102.2	5102.2	5102.2
2.5°	4291.8	4239.9	4219.9	4237.9	4231.9	4225.9	4335.7	4311.7	4307.7	4343.7	4335.7
5°	3221.8	3130.0	3381.5	3279.7	3385.5	3449.4	3461.3	3467.3	3541.2	3463.3	3565.1
7.5°	2295.6	2319.5	2317.5	2385.4	2507.2	2615.0	2678.9	2628.9	2625.0	2615.0	2571.1
10°	1834.5	1792.6	1784.6	1768.6	1806.5	1898.4	1976.2	1914.3	1870.4	1930.3	1912.3
12.5°	1499.1	1441.2	1409.3	1345.4	1347.4	1409.3	1409.3	1409.3	1453.2	1487.1	1513.1
15°	1149.8	1101.9	1101.9	1038.0	1024.0	1026.0	1058.0	1062.0	1131.8	1151.8	1161.8
17.5°	804.5	778.5	808.4	834.4	818.4	822.4	834.4	838.4	848.4	840.4	860.3
20°	618.8	614.8	622.8	668.7	702.6	722.6	708.6	688.7	676.7	648.8	648.8
22.5°	525.0	533.0	546.9	584.9	628.8	640.8	624.8	578.9	543.0	539.0	541.0
25°	467.1	475.1	497.0	521.0	545.0	564.9	548.9	515.0	495.0	477.1	477.1
27.5°	431.2	435.2	447.1	465.1	485.1	501.0	495.0	477.1	455.1	447.1	429.2
30°	403.2	409.2	423.2	427.2	445.1	453.1	443.1	439.2	425.2	415.2	409.2
32.5°	389.3	387.3	397.2	401.2	403.2	409.2	397.2	403.2	401.2	385.3	379.3
35°	293.4	309.4	335.4	357.3	363.3	371.3	369.3	361.3	339.3	321.4	299.4
37.5°	263.5	273.5	287.4	305.4	329.4	339.3	335.4	315.4	289.4	277.5	273.5
40°	243.5	249.5	261.5	273.5	297.4	315.4	301.4	283.5	263.5	253.5	247.5
42.5°	225.6	227.6	233.6	245.5	263.5	291.4	267.5	243.5	235.5	229.6	225.6
45°	205.6	205.6	213.6	219.6	239.5	265.5	241.5	219.6	215.6	211.6	209.6
47.5°	189.6	191.6	195.6	203.6	219.6	237.5	221.6	203.6	193.6	191.6	187.6
50°	169.7	171.7	179.7	187.6	207.6	217.6	207.6	187.6	177.7	171.7	171.7
52°	153.7	159.7	167.7	183.6	197.6	213.6	201.6	179.7	167.7	161.7	157.7
52.5°	151.7	155.7	163.7	181.7	197.6	211.6	199.6	177.7	163.7	159.7	155.7
55°	135.7	141.7	155.7	177.7	195.6	211.6	195.6	175.7	155.7	145.7	141.7
57.5°	129.8	133.7	151.7	179.7	193.6	211.6	195.6	175.7	155.7	137.7	133.7
60°	123.8	131.7	151.7	173.7	191.6	213.6	197.6	173.7	151.7	129.8	129.8
62.5°	117.8	123.8	149.7	169.7	183.6	205.6	189.6	169.7	145.7	123.8	121.8
65°	101.8	111.8	131.7	141.7	157.7	177.7	161.7	147.7	127.8	109.8	107.8
67.5°	77.9	81.8	97.8	109.8	119.8	137.7	129.8	111.8	97.8	83.8	83.8
70°	53.9	57.9	69.9	75.9	85.8	95.8	89.8	75.9	65.9	57.9	55.9
72.5°	37.9	39.9	43.9	47.9	51.9	55.9	53.9	43.9	37.9	35.9	33.9
75°	29.9	33.9	35.9	33.9	31.9	29.9	29.9	26.0	22.0	20.0	20.0
77.5°	29.9	31.9	29.9	26.0	22.0	20.0	18.0	16.0	12.0	10.0	12.0
80°	26.0	26.0	26.0	22.0	20.0	18.0	16.0	14.0	12.0	10.0	10.0
82.5°	27.9	27.9	26.0	22.0	22.0	18.0	18.0	16.0	14.0	10.0	10.0
85°	0.0	0.0	0.0	4.0	10.0	18.0	18.0	16.0	14.0	12.0	12.0
87.5°	0.0	0.0	0.0	0.0	2.0	4.0	8.0	10.0	12.0	12.0	12.0
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°	5102.2	5102.2	5102.2	5102.2	5102.2	5102.2	5102.2	5102.2	5102.2	5102.2	5102.2
2.5°	4407.5	4483.4	4627.1	4770.8	4858.7	4962.5	5150.1	5249.9	5379.7	5443.5	5569.3
5°	3551.2	3730.8	3794.7	3958.4	4134.1	4309.7	4589.2	4896.6	5152.1	5327.8	5555.3
7.5°	2591.0	2632.9	2880.5	2990.3	3277.7	3597.1	3978.4	4365.6	4689.0	4976.4	5150.1
10°	1942.3	2096.0	2251.7	2461.3	2692.8	3022.2	3387.5	3814.7	4233.9	4521.3	4740.9
12.5°	1561.0	1682.8	1890.4	2115.9	2401.4	2619.0	2986.3	3409.4	3952.4	4233.9	4523.3
15°	1181.7	1337.4	1573.0	1806.5	2107.9	2337.5	2708.8	3241.8	3940.4	4327.7	4577.2
17.5°	876.3	982.1	1193.7	1455.2	1762.6	2086.0	2587.0	3223.8	4074.2	4535.3	4792.8
20°	670.7	706.6	840.4	1073.9	1407.3	1830.5	2389.4	3301.7	4469.4	5040.3	5301.8
22.5°	543.0	558.9	610.8	772.5	1095.9	1606.9	2295.6	3355.6	4914.6	5645.2	5994.5
25°	473.1	469.1	503.0	572.9	856.4	1397.3	2175.8	3559.2	5459.5	6355.8	6669.2
27.5°	431.2	431.2	447.1	497.0	710.6	1261.6	2100.0	3704.9	6008.5	6980.6	7150.3
30°	409.2	413.2	459.1	475.1	590.9	1099.9	1974.2	3852.6	6533.4	7379.8	7613.4
32.5°	379.3	363.3	353.3	393.2	497.0	954.2	1848.4	3914.5	6958.6	7868.9	8068.5
35°	291.4	283.5	295.4	325.4	427.2	830.4	1708.7	3984.3	7447.7	8435.8	8475.7
37.5°	263.5	261.5	269.5	295.4	359.3	722.6	1608.9	3966.4	7821.0	8904.9	8797.1
40°	243.5	243.5	249.5	271.5	321.4	646.8	1505.1	3950.4	8182.3	9431.9	9116.5
42.5°	227.6	227.6	237.5	251.5	305.4	596.9	1427.3	3928.5	8485.7	9755.3	9304.1
45°	205.6	211.6	227.6	241.5	309.4	562.9	1369.4	3844.6	8589.5	9751.3	9214.3
47.5°	189.6	197.6	213.6	233.6	279.5	552.9	1329.4	3770.8	8553.6	9511.7	8932.8
50°	171.7	181.7	203.6	237.5	237.5	533.0	1287.5	3836.6	8527.6	9326.1	8663.4
52°	159.7	167.7	195.6	231.6	207.6	491.1	1261.6	3964.4	8633.4	9302.1	8543.6
52.5°	157.7	163.7	189.6	227.6	197.6	483.1	1243.6	3994.3	8667.3	9242.2	8625.4
55°	139.7	147.7	173.7	177.7	161.7	397.2	1185.7	4062.2	8499.7	9124.5	8547.6
57.5°	131.7	135.7	153.7	145.7	139.7	299.4	1020.0	3956.4	7549.5	8104.4	7952.7
60°	121.8	125.8	143.7	113.8	117.8	209.6	766.5	3435.4	6062.4	6753.0	7026.5
62.5°	117.8	115.8	135.7	91.8	99.8	151.7	541.0	2792.6	4671.0	5559.3	6032.4
65°	103.8	101.8	97.8	77.9	85.8	117.8	323.4	1822.5	3291.7	4205.9	4465.4
67.5°	79.8	83.8	71.9	61.9	71.9	91.8	179.7	816.4	1726.7	2523.2	2732.7
70°	55.9	59.9	57.9	53.9	63.9	75.9	103.8	279.5	714.6	1325.5	1461.2
72.5°	33.9	41.9	43.9	45.9	55.9	65.9	73.9	89.8	189.6	469.1	582.9
75°	20.0	27.9	33.9	39.9	45.9	55.9	61.9	63.9	65.9	87.8	141.7
77.5°	14.0	20.0	29.9	37.9	45.9	55.9	65.9	69.9	65.9	61.9	65.9
80°	12.0	20.0	27.9	35.9	47.9	57.9	65.9	65.9	63.9	55.9	59.9
82.5°	12.0	20.0	29.9	37.9	45.9	55.9	63.9	65.9	59.9	55.9	57.9
85°	14.0	22.0	31.9	39.9	49.9	45.9	41.9	33.9	31.9	26.0	27.9
87.5°	14.0	20.0	20.0	22.0	24.0	24.0	24.0	22.0	18.0	16.0	16.0
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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CATALOG NUMBER: GALN-SA5A-830-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5102.2	5102.2	5102.2	5102.2	5102.2	5102.2	5102.2	5102.2	5102.2	5102.2
2.5°	5575.3	5735.0	5729.0	5733.0	5709.0	5547.3	5469.5	5271.9	5327.8	5303.8
5°	5788.9	5946.6	6082.3	6066.3	5882.7	5663.1	5337.7	5030.3	4946.5	4822.7
7.5°	5575.3	5954.6	6080.3	6062.4	5790.9	5509.4	4990.4	4683.0	4537.3	4455.4
10°	5235.9	5675.1	5830.8	5862.7	5679.1	5251.9	4774.8	4281.8	4203.9	4062.2
12.5°	5042.3	5361.7	5457.5	5543.3	5479.5	5160.1	4611.1	4138.0	4030.3	3936.4
15°	4884.6	5074.2	5114.2	5212.0	5249.9	5078.2	4697.0	4293.7	4028.3	4018.3
17.5°	5030.3	4952.5	4806.8	4836.7	4956.5	5080.2	4918.5	4601.2	4343.7	4311.7
20°	5271.9	4928.5	4599.2	4673.0	4772.8	5152.1	5253.9	5030.3	4882.6	4800.8
22.5°	5549.3	4970.4	4533.3	4569.2	4758.9	5313.8	5796.9	5673.1	5397.6	5279.9
25°	6062.4	5086.2	4585.2	4609.1	4868.6	5539.4	6287.9	6379.7	6216.1	6192.1
27.5°	6563.4	5385.7	4699.0	4645.1	4924.5	5758.9	6585.3	7078.4	6790.9	6735.1
30°	6818.9	5629.2	4868.6	4776.8	5156.1	5892.7	6765.0	7533.5	7282.0	7256.1
32.5°	7210.1	5850.8	5000.4	4882.6	5285.8	6058.4	7100.4	8030.6	7787.0	7657.3
35°	7373.8	6092.3	5289.8	5152.1	5657.1	6289.9	7272.0	8473.7	8397.9	8272.1
37.5°	7689.2	6351.8	5631.2	5623.2	6106.3	6591.3	7581.4	9076.6	9062.6	8845.0
40°	7715.2	6635.2	6170.1	6421.7	6800.9	7116.3	7852.9	9244.2	9471.8	9324.1
42.5°	7755.1	7132.3	7102.4	7310.0	7635.3	7567.5	7862.9	9284.2	9631.5	9543.7
45°	7773.1	7629.3	8050.5	8433.8	8569.5	8158.3	7769.1	9208.3	9715.3	9495.8
47.5°	7629.3	8056.5	8817.1	9557.6	9597.6	8521.6	7729.1	9130.5	9765.2	9619.5
50°	7649.3	8324.0	9479.8	10142.5	9996.8	8843.0	7667.3	9082.5	9739.3	9641.5
52°	7601.4	8330.0	9573.6	10130.5	10028.7	8665.3	7561.5	8898.9	9715.3	9785.2
52.5°	7655.3	8294.1	9475.8	10138.5	10006.8	8753.2	7547.5	9000.7	9729.3	9587.6
55°	7469.6	7866.9	8902.9	9184.4	9164.4	7944.7	7118.3	8663.4	9364.0	9366.0
57.5°	6751.0	6818.9	6982.6	6976.6	6884.8	6246.0	6088.3	7966.7	8348.0	8140.4
60°	5948.6	4992.4	4551.3	4371.6	4269.8	4166.0	5385.7	7288.0	7323.9	7236.1
62.5°	5140.1	3461.3	2874.5	2824.6	2848.5	3227.8	5206.0	7018.5	6802.9	6613.3
65°	4148.0	2523.2	2088.0	2022.1	2255.7	2664.9	4213.9	5381.7	5050.3	4892.6
67.5°	2605.0	1840.5	1411.3	1287.5	1569.0	1834.5	2768.7	3381.5	3010.2	2792.6
70°	1545.0	1028.0	638.8	572.9	644.8	978.1	1551.0	1686.8	1395.3	1283.5
72.5°	608.8	377.3	177.7	151.7	157.7	343.3	570.9	556.9	421.2	375.3
75°	163.7	113.8	61.9	49.9	41.9	63.9	91.8	59.9	22.0	27.9
77.5°	75.9	67.9	53.9	41.9	31.9	24.0	12.0	4.0	4.0	2.0
80°	65.9	57.9	49.9	41.9	31.9	20.0	10.0	2.0	2.0	2.0
82.5°	61.9	53.9	45.9	37.9	29.9	20.0	10.0	2.0	0.0	0.0
85°	26.0	33.9	37.9	35.9	31.9	20.0	10.0	2.0	0.0	0.0
87.5°	14.0	12.0	10.0	8.0	6.0	4.0	4.0	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

(END OF REPORT)