

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: P533721

Luminaire Tested: **GALN-SA9A-830-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533721
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-830-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18212 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

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



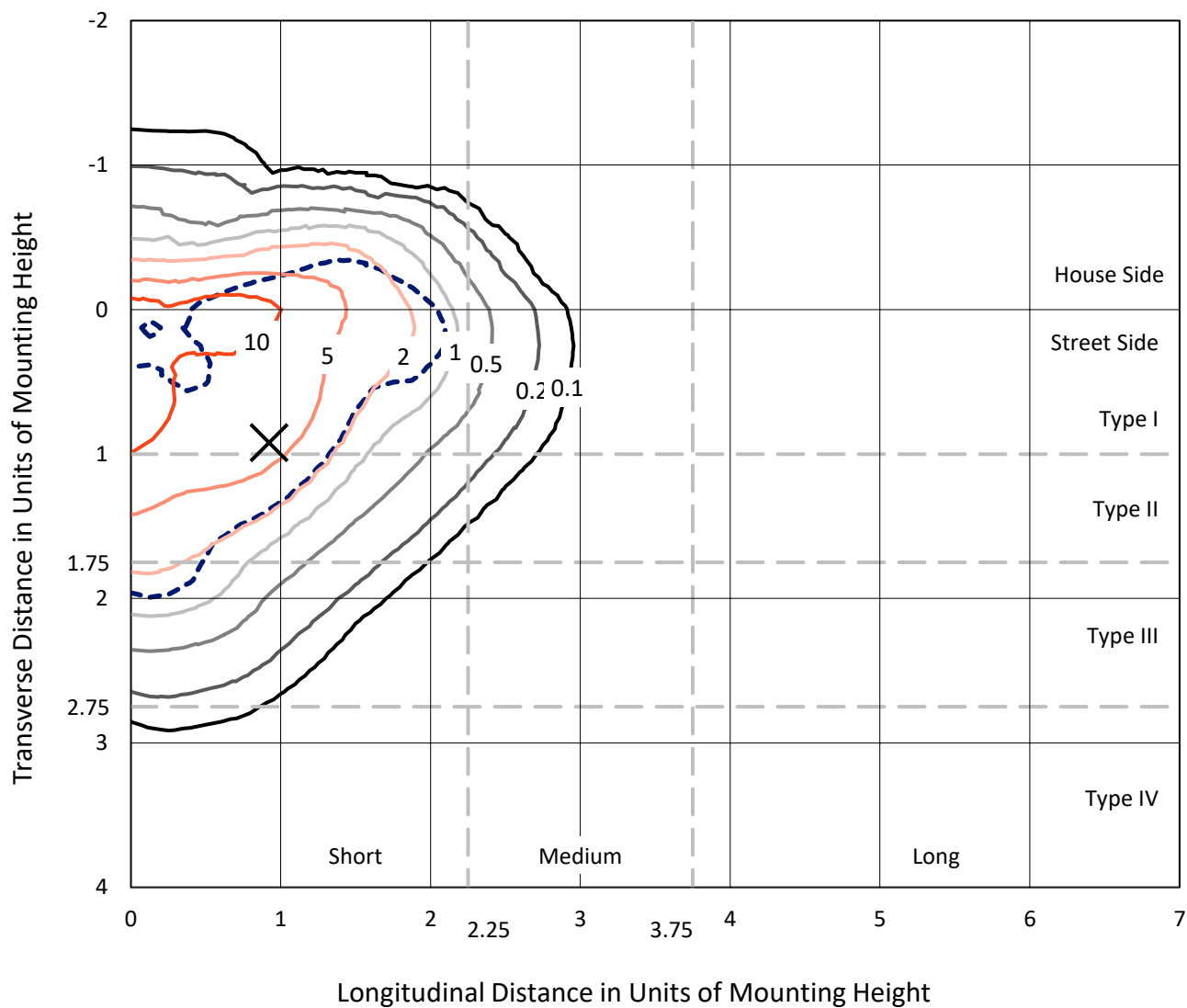
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



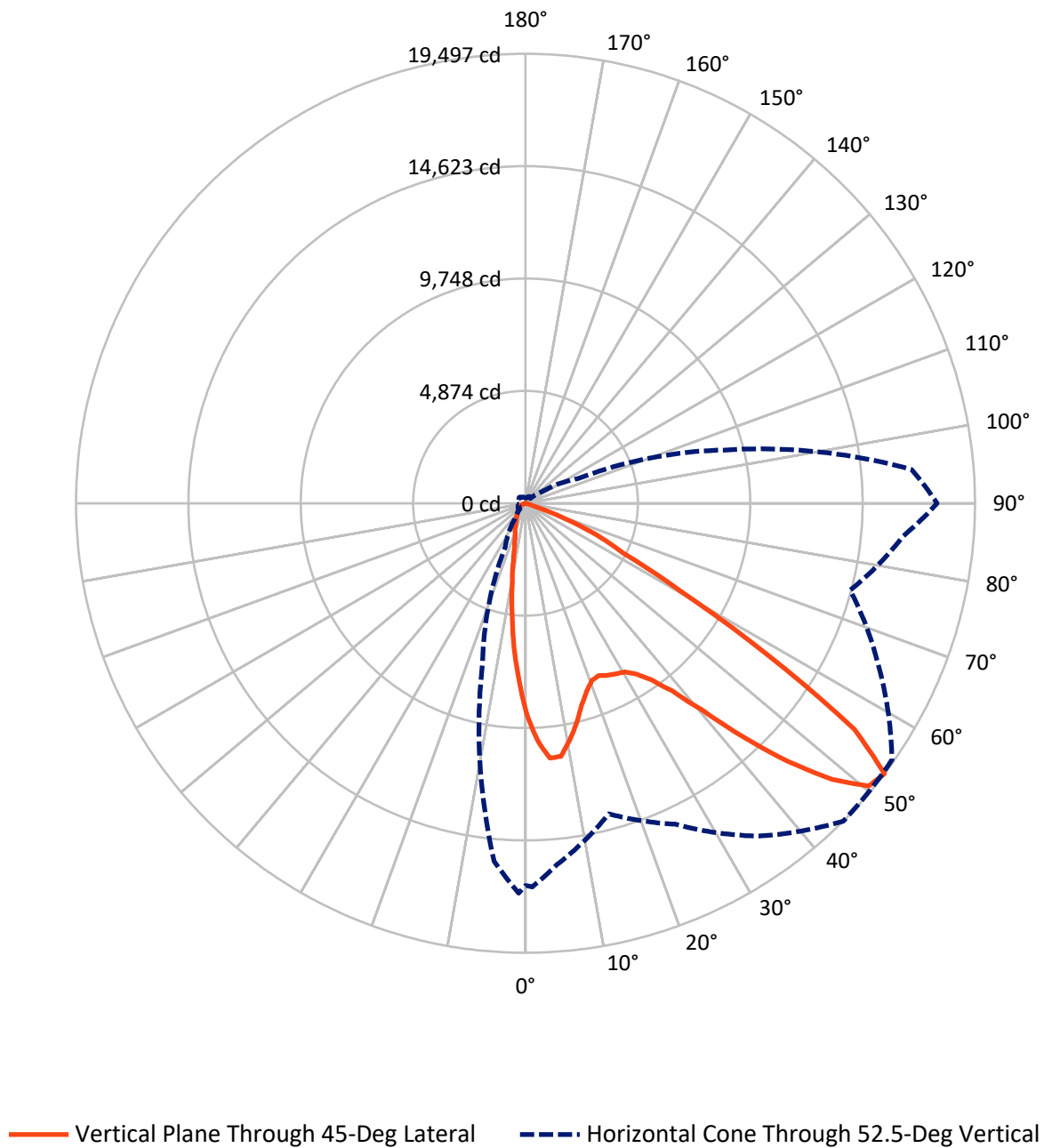
Based on 25 foot mounting height. Maximum calculated value = 16 fc

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	3696.1	0.0	3696.1
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	14515.9	0.0	14515.9
	% Fixture	79.7	0.0	79.7
Total	Lumens	18212.0	0.0	18212.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	673.4	3.7
10°-20°	1328.7	7.3
20°-30°	2022.0	11.1
30°-40°	3022.2	16.6
40°-50°	4303.9	23.6
50°-60°	4626.5	25.4
60°-70°	2050.1	11.3
70°-80°	165.9	0.9
80°-90°	19.3	0.1
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°	18212.0	100.0
0°-180°	18212.0	100.0

Coefficient of Utilization



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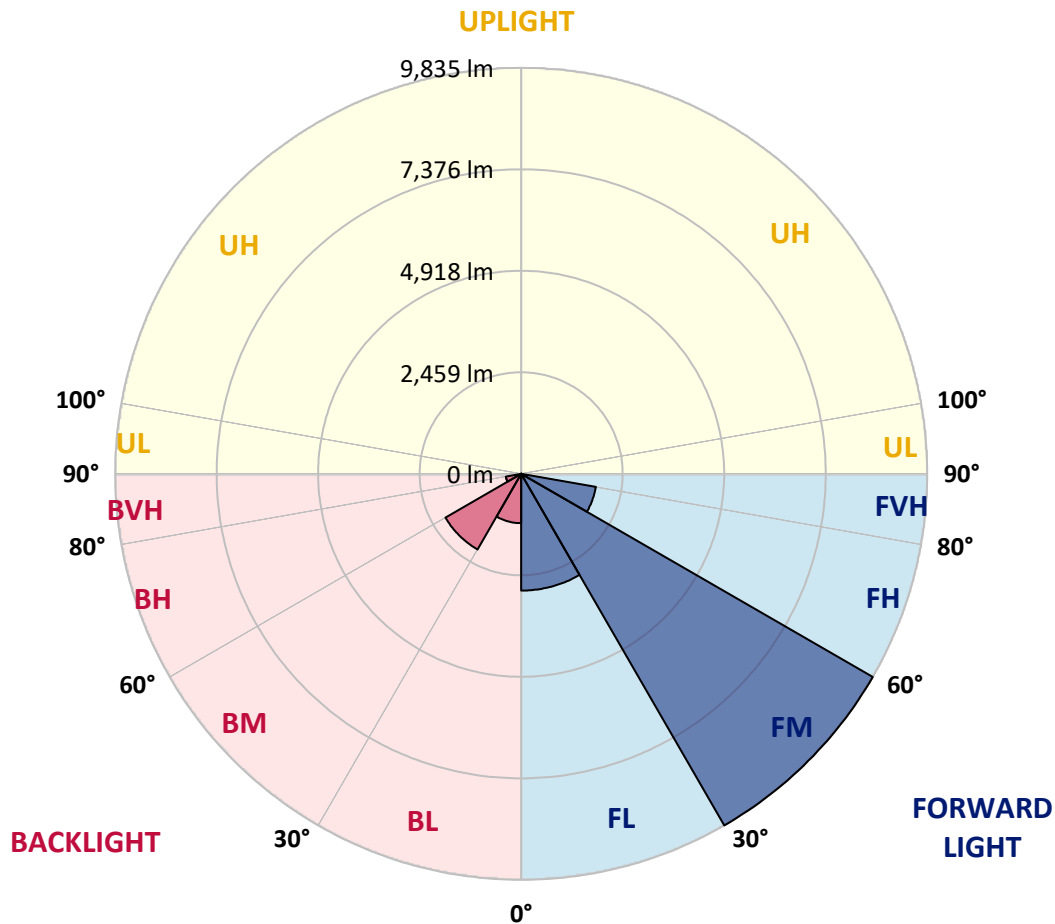
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2828.7	15.5			
FM	(30°-60°)	9835.0	54.0			
FH	(60°-80°)	1837.8	10.1			G2/5000
FVH	(80°-90°)	14.3	0.1			G1/100
BL	(0°-30°)	1195.5	6.6	B3/2500		
BM	(30°-60°)	2117.5	11.6	B2/2500		
BH	(60°-80°)	378.2	2.1	B1/500		G1/500
BVH	(80°-90°)	5.0	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9234.3	9234.3	9234.3	9234.3	9234.3	9234.3	9234.3	9234.3	9234.3	9234.3	9234.3
2.5°	9771.6	9800.3	9957.9	10154.9	10258.8	10495.2	10330.4	10373.4	10283.8	9968.6	9721.5
5°	9474.3	9470.7	9671.3	10158.5	10620.6	11089.8	11104.1	10853.4	10412.8	9929.2	9237.9
7.5°	8578.8	8718.5	8926.3	9703.6	10559.7	10910.7	11079.0	10785.3	10108.3	9417.0	8668.4
10°	7901.8	7973.5	8324.5	9263.0	9889.8	10359.1	10462.9	10294.6	9775.2	8912.0	8073.8
12.5°	7511.4	7547.2	7959.1	8747.2	9409.8	9757.3	9807.4	9886.2	9513.7	8704.2	7697.7
15°	7515.0	7543.6	8098.8	8757.9	9019.4	8926.3	9091.1	9087.5	9248.7	8664.8	8012.9
17.5°	8055.9	8088.1	8589.6	8915.5	8800.9	8582.4	8571.7	8736.4	9076.7	9155.5	8489.3
20°	8987.2	9062.4	9431.3	9413.4	8768.7	8328.1	8206.3	8331.7	9123.3	9571.0	9449.2
22.5°	10240.9	10344.7	10602.6	10108.3	8915.5	8156.2	8116.8	8360.3	9431.3	10498.8	10538.2
25°	11695.1	11870.7	11996.0	11362.0	9438.5	8453.5	8267.2	8686.3	9846.8	11505.3	11924.4
27.5°	12658.7	12841.4	12812.7	11906.5	9789.5	8532.3	8374.7	8765.1	10208.6	11745.3	12648.0
30°	13410.9	13522.0	13722.5	12200.2	10140.6	8754.3	8485.7	9098.2	10326.8	12160.8	13522.0
32.5°	14288.5	14363.7	14378.0	12719.6	10681.4	9033.7	8829.6	9513.7	10849.8	12558.4	14295.7
35°	15173.2	15284.3	15051.5	13360.8	11014.6	9553.1	9402.7	10233.7	11268.9	12970.3	15148.2
37.5°	16133.2	16190.5	15653.2	13625.8	11491.0	10398.5	10316.1	11011.0	11996.0	13715.4	16093.8
40°	16939.2	16992.9	16294.4	13951.8	11992.5	11580.5	11791.9	12493.9	12984.7	14198.9	16566.6
42.5°	17386.9	17512.3	16509.3	13772.7	12999.0	12920.2	13858.7	14105.8	14130.9	14335.1	16989.3
45°	17508.7	17451.4	16154.7	13919.6	13880.2	15123.1	15975.6	16301.6	15270.0	14585.8	17096.8
47.5°	16946.3	17021.5	15631.7	13790.6	15037.1	16792.3	17895.5	18500.9	16118.9	14367.3	16831.7
50°	16491.4	16394.7	15463.4	13697.5	15348.8	17580.3	19281.8	19417.9	16899.8	14635.9	16541.6
52.5°	16581.0	16641.9	15732.0	13944.6	15355.9	17626.9	19496.7	19403.6	16924.8	14575.1	16437.7
55°	16770.8	16502.2	15617.4	13400.2	14327.9	16326.6	17304.5	17161.2	15621.0	13926.7	16183.4
57.5°	14471.2	14886.7	14360.1	11963.8	11759.6	12300.5	12282.6	12723.2	11652.2	11985.3	14732.7
60°	11745.3	11816.9	12013.9	10233.7	8138.2	7952.0	7694.1	7414.7	7840.9	10248.0	13400.2
62.5°	10330.4	10244.4	10946.5	9309.6	5745.5	4810.6	4767.6	4939.5	6050.0	9775.2	12569.1
65°	7507.8	7615.3	8123.9	7224.8	4312.7	3671.5	3607.0	4115.7	4896.6	7833.8	9592.5
67.5°	4584.9	4792.7	4839.2	4456.0	2926.5	2324.7	2231.6	2693.6	3535.4	5068.5	5623.7
70°	2116.9	2367.7	2604.1	2432.2	1694.3	956.4	902.7	1131.9	1783.8	2915.7	2983.8
72.5°	641.2	644.8	902.7	942.1	548.0	214.9	189.8	250.7	605.4	963.6	1013.7
75°	46.6	50.1	121.8	139.7	103.9	53.7	57.3	68.1	129.0	214.9	161.2
77.5°	3.6	3.6	3.6	17.9	32.2	35.8	46.6	53.7	68.1	78.8	71.6
80°	3.6	0.0	3.6	14.3	25.1	35.8	43.0	50.1	53.7	60.9	53.7
82.5°	0.0	0.0	0.0	10.7	25.1	35.8	39.4	53.7	60.9	71.6	60.9
85°	0.0	0.0	0.0	10.7	25.1	39.4	35.8	17.9	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9234.3	9234.3	9234.3	9234.3	9234.3	9234.3	9234.3	9234.3	9234.3	9234.3	9234.3
2.5°	9764.5	9624.8	9306.0	9144.8	8765.1	8711.4	8338.8	8277.9	8152.6	8084.5	7919.7
5°	8933.4	8765.1	8245.7	7808.7	7300.1	6945.4	6673.2	6426.1	6282.8	6150.3	6211.1
7.5°	8256.5	7765.7	7189.0	6458.3	5870.9	5491.2	5075.7	4735.4	4534.8	4398.7	4430.9
10°	7547.2	7228.4	6426.1	5605.8	4896.6	4627.9	4302.0	4040.5	3757.5	3513.9	3399.3
12.5°	7325.1	6852.3	5845.8	5011.2	4473.9	4212.4	3839.9	3539.0	3177.2	2879.9	2776.0
15°	7364.5	6909.6	5688.2	4796.3	4162.3	3710.9	3266.8	2894.2	2496.6	2288.9	2181.4
17.5°	8005.7	7217.7	5792.1	4570.6	3728.8	3102.0	2553.9	2081.1	1783.8	1568.9	1522.3
20°	8793.7	7883.9	6014.1	4405.8	3374.2	2468.0	1866.2	1457.9	1210.7	1174.9	1164.1
22.5°	9947.1	8972.8	6490.5	4294.8	2940.8	1923.5	1278.8	1060.3	992.2	985.0	988.6
25°	11559.0	10337.6	7009.9	4201.7	2614.8	1482.9	1045.9	899.1	877.6	866.8	884.7
27.5°	12257.5	11161.4	7285.7	4001.1	2317.5	1336.1	1031.6	891.9	831.0	813.1	823.9
30°	13120.8	11709.5	7719.2	3657.2	1880.5	1099.7	963.6	970.7	942.1	852.5	823.9
32.5°	14267.0	12393.6	7937.7	3413.6	1679.9	909.8	705.6	648.3	723.6	737.9	763.0
35°	15001.3	13088.5	8048.7	3270.3	1576.1	777.3	598.2	544.5	526.6	530.1	544.5
37.5°	16366.0	14027.0	8188.4	3119.9	1497.3	677.0	540.9	490.7	465.7	465.7	480.0
40°	17182.7	14772.1	8378.2	3037.5	1418.5	616.1	490.7	447.7	426.3	426.3	433.4
42.5°	17386.9	15141.0	8313.8	3008.9	1328.9	601.8	447.7	415.5	390.4	386.9	383.3
45°	17752.3	15703.4	8324.5	2976.6	1235.8	548.0	422.7	386.9	351.0	347.5	343.9
47.5°	18153.4	16108.1	8346.0	2851.3	1146.2	458.5	440.6	358.2	315.2	308.0	308.0
50°	17809.6	16430.5	8532.3	2725.9	1031.6	372.5	433.4	336.7	279.4	268.6	272.2
52.5°	17852.6	16810.2	8926.3	2550.4	888.3	297.3	351.0	318.8	254.3	236.4	240.0
55°	17164.8	16409.0	8980.0	2364.1	694.9	229.2	268.6	279.4	214.9	207.8	207.8
57.5°	14775.6	13894.5	7923.3	1916.4	458.5	189.8	193.4	243.6	186.3	179.1	182.7
60°	12644.4	11154.3	6375.9	1264.4	286.6	150.4	139.7	247.2	164.8	161.2	171.9
62.5°	11526.8	9166.3	4835.7	784.5	197.0	114.6	96.7	200.6	143.3	143.3	157.6
65°	8328.1	6157.4	2811.9	411.9	139.7	89.5	71.6	114.6	118.2	121.8	129.0
67.5°	5158.0	3109.2	1185.6	200.6	93.1	60.9	46.6	71.6	78.8	78.8	86.0
70°	2546.8	1239.4	394.0	114.6	71.6	50.1	32.2	39.4	39.4	35.8	39.4
72.5°	788.0	372.5	100.3	71.6	50.1	32.2	17.9	14.3	7.2	0.0	3.6
75°	89.5	71.6	64.5	50.1	32.2	14.3	3.6	0.0	0.0	0.0	0.0
77.5°	53.7	60.9	60.9	50.1	32.2	10.7	0.0	0.0	0.0	0.0	0.0
80°	43.0	46.6	50.1	46.6	28.7	14.3	0.0	0.0	0.0	0.0	0.0
82.5°	53.7	60.9	68.1	60.9	39.4	17.9	7.2	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	10.7	3.6	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°	9234.3	9234.3	9234.3	9234.3	9234.3	9234.3	9234.3	9234.3	9234.3	9234.3	9234.3
2.5°	7851.7	7772.9	7883.9	7719.2	7715.6	7719.2	7672.6	7629.6	7697.7	7880.3	7898.3
5°	5992.6	6161.0	6214.7	6390.2	6293.5	6150.3	6178.9	6082.2	6318.6	6422.5	6340.1
7.5°	4362.8	4352.1	4713.9	4735.4	4781.9	4785.5	4778.4	4588.5	4395.1	4438.1	4567.0
10°	3385.0	3202.3	3377.8	3359.9	3474.5	3442.3	3488.8	3284.7	3352.7	3352.7	3435.1
12.5°	2758.1	2564.7	2532.5	2485.9	2532.5	2550.4	2568.3	2528.9	2643.5	2697.2	2754.5
15°	2106.2	1998.7	1970.1	1880.5	1894.9	1945.0	1988.0	2005.9	1970.1	2052.5	2059.6
17.5°	1529.5	1525.9	1543.8	1540.2	1525.9	1515.2	1511.6	1465.0	1450.7	1457.9	1486.5
20°	1160.6	1189.2	1250.1	1311.0	1343.2	1303.8	1250.1	1171.3	1139.1	1146.2	1149.8
22.5°	992.2	1035.2	1117.6	1185.6	1217.9	1146.2	1049.5	981.5	967.1	963.6	960.0
25°	899.1	949.2	1010.1	1031.6	1028.0	985.0	913.4	884.7	877.6	870.4	838.2
27.5°	848.9	866.8	877.6	902.7	913.4	884.7	866.8	823.9	816.7	816.7	795.2
30°	820.3	809.5	823.9	805.9	820.3	798.8	802.4	802.4	784.5	791.6	791.6
32.5°	763.0	766.5	766.5	730.7	741.5	716.4	741.5	763.0	766.5	770.1	798.8
35°	558.8	623.3	655.5	655.5	666.2	648.3	644.8	619.7	587.4	555.2	540.9
37.5°	490.7	515.8	558.8	583.9	601.8	587.4	555.2	515.8	497.9	483.6	469.2
40°	437.0	458.5	487.1	515.8	551.6	533.7	483.6	465.7	444.2	444.2	429.8
42.5°	394.0	404.8	422.7	465.7	505.1	469.2	433.4	419.1	408.3	404.8	401.2
45°	354.6	358.2	376.1	411.9	458.5	422.7	386.9	368.9	372.5	376.1	372.5
47.5°	318.8	326.0	336.7	379.7	408.3	390.4	351.0	340.3	340.3	340.3	343.9
50°	275.8	293.7	315.2	351.0	372.5	361.8	329.5	315.2	308.0	308.0	311.6
52.5°	247.2	261.5	290.1	333.1	361.8	343.9	311.6	290.1	275.8	272.2	279.4
55°	214.9	240.0	286.6	318.8	358.2	340.3	304.5	279.4	254.3	250.7	250.7
57.5°	193.4	232.8	275.8	315.2	347.5	333.1	304.5	272.2	240.0	236.4	236.4
60°	182.7	225.7	268.6	304.5	347.5	326.0	300.9	265.1	229.2	229.2	225.7
62.5°	171.9	211.3	254.3	290.1	333.1	315.2	290.1	254.3	218.5	218.5	211.3
65°	143.3	182.7	211.3	243.6	290.1	272.2	247.2	222.1	193.4	186.3	189.8
67.5°	100.3	125.4	154.0	186.3	214.9	207.8	197.0	179.1	154.0	150.4	146.9
70°	50.1	68.1	93.1	125.4	150.4	143.3	136.1	121.8	107.5	103.9	103.9
72.5°	7.2	21.5	39.4	57.3	78.8	82.4	78.8	75.2	71.6	68.1	71.6
75°	0.0	0.0	0.0	14.3	32.2	39.4	46.6	53.7	53.7	46.6	57.3
77.5°	0.0	0.0	0.0	0.0	3.6	17.9	35.8	46.6	57.3	50.1	68.1
80°	0.0	0.0	0.0	0.0	3.6	21.5	35.8	50.1	57.3	50.1	71.6
82.5°	0.0	0.0	0.0	0.0	3.6	25.1	35.8	46.6	53.7	50.1	64.5
85°	0.0	0.0	0.0	0.0	10.7	21.5	14.3	7.2	3.6	3.6	10.7
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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CATALOG NUMBER: GALN-SA9A-830-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9234.3	9234.3	9234.3	9234.3	9234.3	9234.3	9234.3	9234.3	9234.3	9234.3
2.5°	7998.5	8252.9	8525.1	8629.0	8951.4	9194.9	9359.7	9714.3	9768.0	9771.6
5°	6426.1	6555.0	7020.7	7239.2	7719.2	8091.7	8489.3	9062.4	9445.7	9474.3
7.5°	4567.0	4925.2	5122.2	5691.8	6282.8	6866.6	7457.7	8123.9	8568.1	8578.8
10°	3675.1	3907.9	4259.0	4685.2	5183.1	5777.7	6565.8	7339.5	7790.8	7901.8
12.5°	2958.7	3367.1	3768.2	4208.8	4588.5	5036.3	5885.2	6916.8	7289.3	7511.4
15°	2278.1	2650.7	3123.5	3639.3	4069.1	4667.3	5634.4	6812.9	7439.8	7515.0
17.5°	1679.9	2013.1	2450.1	2937.2	3582.0	4430.9	5677.4	7339.5	7930.5	8055.9
20°	1207.1	1400.6	1744.4	2310.4	3130.6	4155.1	5720.4	7873.2	8772.3	8987.2
22.5°	956.4	1035.2	1260.9	1762.3	2625.6	3865.0	6024.9	8894.0	9929.2	10240.9
25°	831.0	874.0	981.5	1389.8	2306.8	3836.3	6512.0	10119.1	11469.5	11695.1
27.5°	802.4	809.5	902.7	1275.2	2134.9	3646.5	6698.3	10989.5	12429.5	12658.7
30°	845.3	960.0	967.1	1078.2	1816.1	3270.3	6795.0	11831.3	13242.6	13410.9
32.5°	730.7	694.9	720.0	834.6	1597.6	3051.8	6977.7	12565.6	14170.3	14288.5
35°	508.6	533.7	591.0	723.6	1397.0	2822.6	7024.3	13375.1	15051.5	15173.2
37.5°	469.2	483.6	530.1	616.1	1228.6	2693.6	6959.8	13966.1	15964.9	16133.2
40°	437.0	454.9	480.0	558.8	1103.2	2550.4	6870.2	14499.8	16523.6	16939.2
42.5°	411.9	426.3	447.7	533.7	995.8	2407.1	6744.9	15252.0	17025.1	17386.9
45°	383.3	404.8	429.8	519.4	934.9	2310.4	6651.7	15205.5	17315.3	17508.7
47.5°	354.6	390.4	419.1	483.6	917.0	2263.8	6691.1	15030.0	17078.9	16946.3
50°	326.0	372.5	422.7	401.2	874.0	2170.7	6737.7	15270.0	16516.5	16491.4
52.5°	300.9	354.6	394.0	329.5	777.3	2081.1	7189.0	15585.2	16914.1	16581.0
55°	265.1	318.8	315.2	265.1	630.4	2013.1	7543.6	15592.3	16645.4	16770.8
57.5°	240.0	283.0	247.2	222.1	465.7	1683.5	6966.9	13074.2	14249.1	14471.2
60°	222.1	275.8	186.3	175.5	304.5	1214.3	6082.2	10126.2	11326.2	11745.3
62.5°	204.2	261.5	146.9	143.3	211.3	863.3	5000.4	8475.0	9760.9	10330.4
65°	179.1	186.3	118.2	111.0	150.4	465.7	3044.7	5835.0	7296.5	7507.8
67.5°	146.9	143.3	96.7	89.5	100.3	225.7	1343.2	2922.9	4230.3	4584.9
70°	118.2	118.2	82.4	71.6	71.6	103.9	351.0	1164.1	1912.8	2116.9
72.5°	86.0	89.5	64.5	57.3	53.7	50.1	57.3	232.8	501.5	641.2
75°	75.2	78.8	64.5	50.1	39.4	32.2	25.1	21.5	28.7	46.6
77.5°	82.4	82.4	68.1	46.6	35.8	25.1	14.3	7.2	7.2	3.6
80°	103.9	107.5	89.5	60.9	43.0	28.7	17.9	7.2	3.6	3.6
82.5°	111.0	121.8	100.3	75.2	53.7	32.2	17.9	3.6	0.0	0.0
85°	28.7	46.6	78.8	68.1	53.7	32.2	17.9	3.6	0.0	0.0
87.5°	0.0	3.6	10.7	10.7	14.3	14.3	10.7	3.6	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)