

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: P531849

Luminaire Tested: **GALN-SA7A-830-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531849
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-SA7A-830-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 13993 lumens
Efficiency: N/A
Efficacy: 65.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

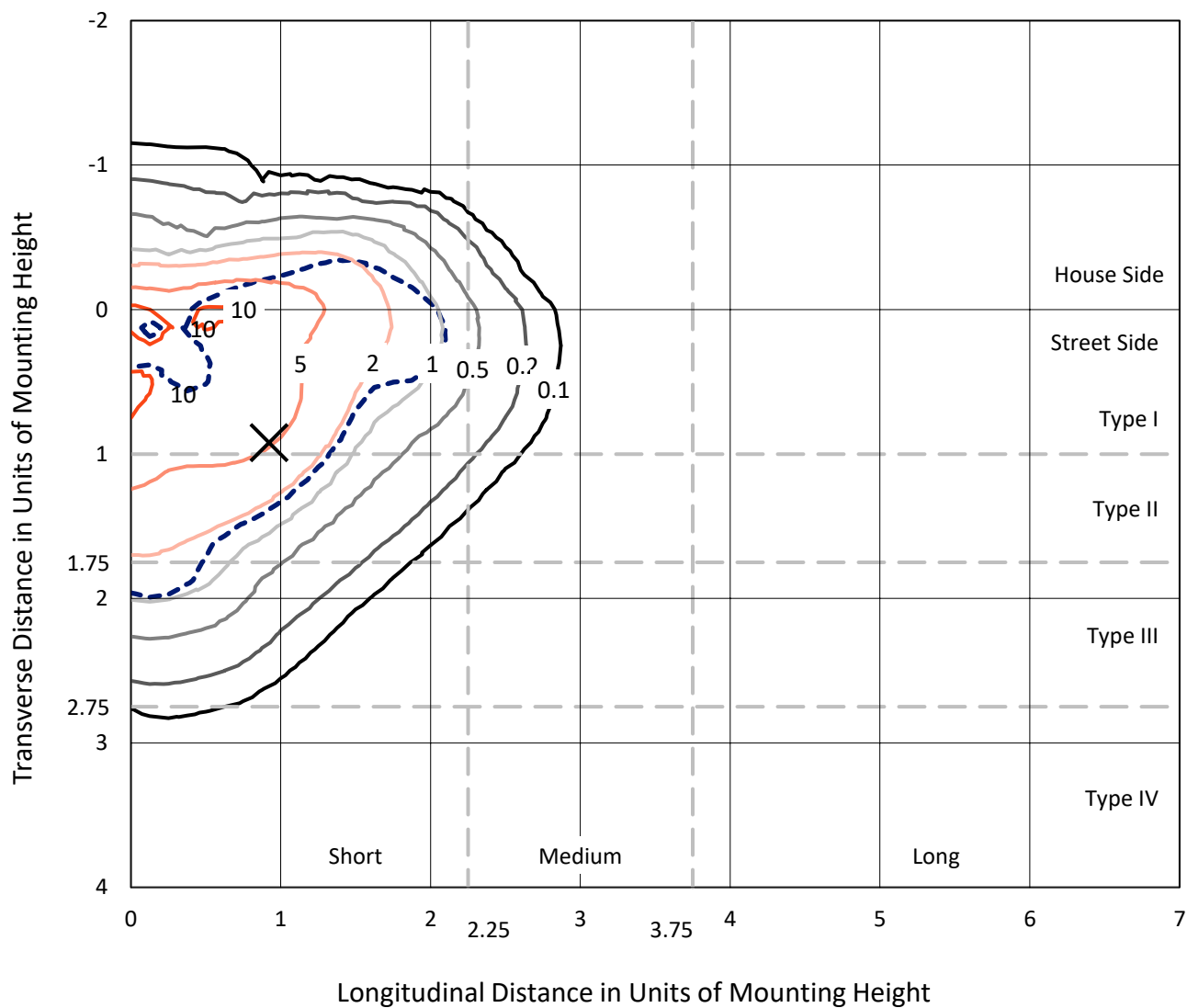
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

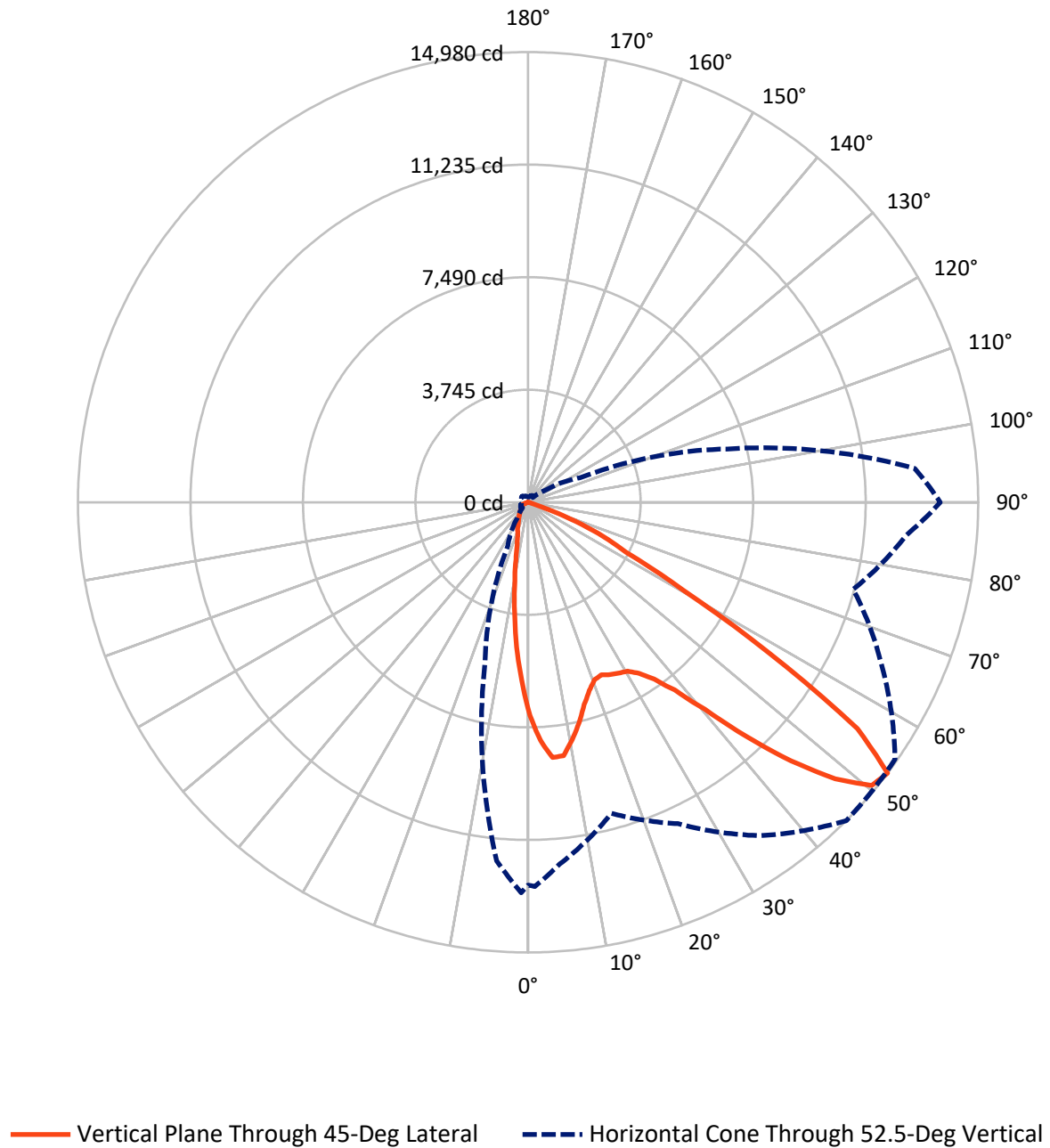
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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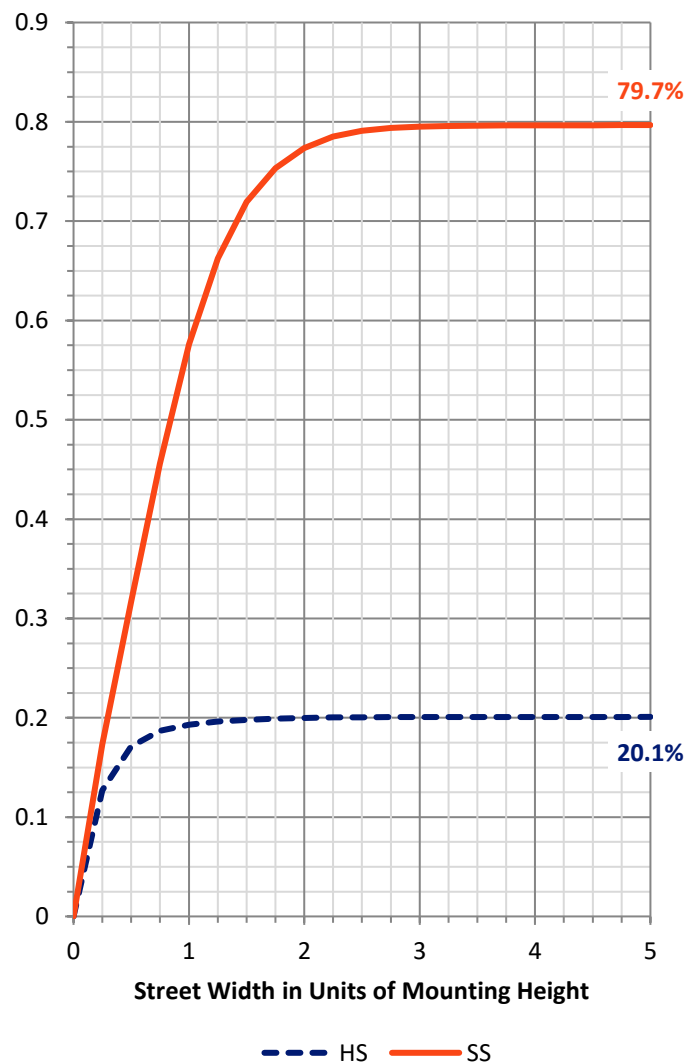
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2839.9	0.0	2839.9
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	11153.1	0.0	11153.1
	% Fixture	79.7	0.0	79.7
Total	Lumens	13993.0	0.0	13993.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.4	3.7
10°-20°	1020.9	7.3
20°-30°	1553.6	11.1
30°-40°	2322.0	16.6
40°-50°	3306.8	23.6
50°-60°	3554.7	25.4
60°-70°	1575.2	11.3
70°-80°	127.4	0.9
80°-90°	14.9	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°	13993.0	100.0
0°-180°	13993.0	100.0

Coefficient of Utilization



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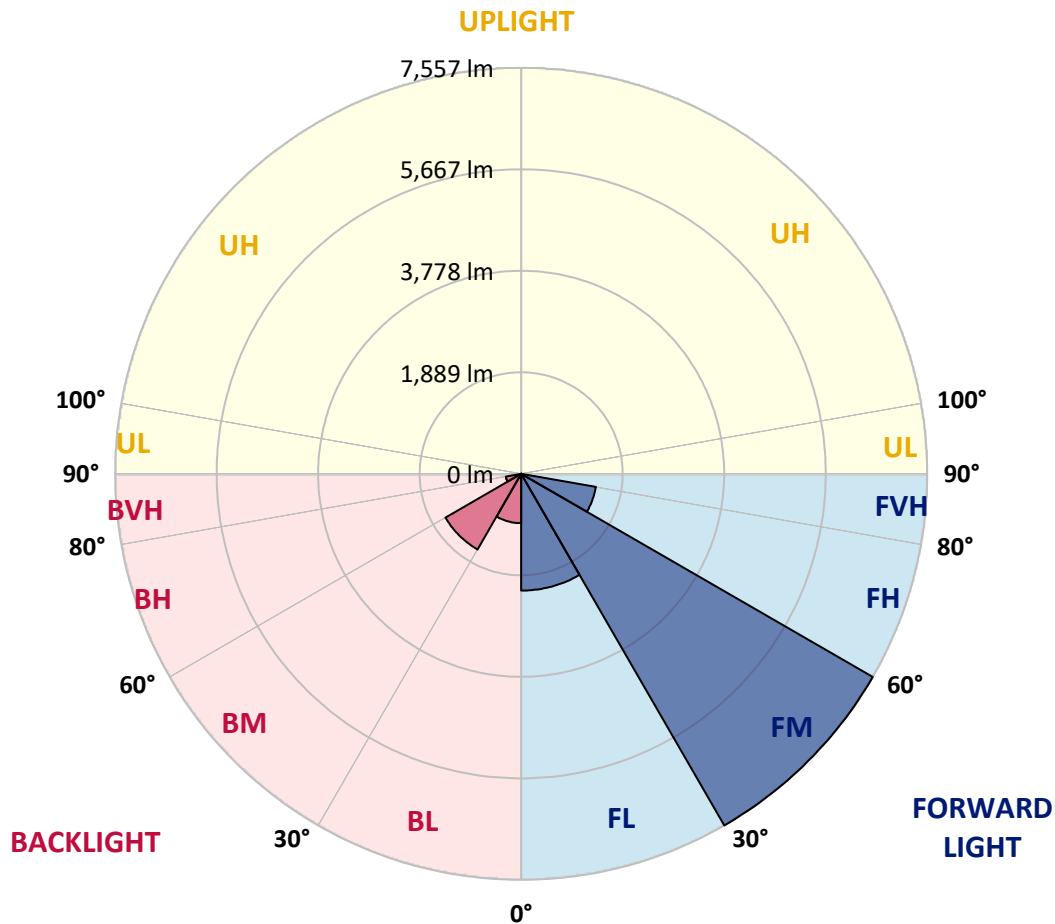
CATALOG NUMBER: GALN-SA7A-830-U-SLL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2173.4	15.5			
FM	(30°-60°)	7556.7	54.0			
FH	(60°-80°)	1412.1	10.1			G1/1800
FVH	(80°-90°)	11.0	0.1			G1/100
BL	(0°-30°)	918.5	6.6	B2/1000		
BM	(30°-60°)	1626.9	11.6	B2/2500		
BH	(60°-80°)	290.6	2.1	B1/500		G1/500
BVH	(80°-90°)	3.9	0.0			G0/10
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°	7095.1	7095.1	7095.1	7095.1	7095.1	7095.1	7095.1	7095.1	7095.1	7095.1	7095.1
2.5°	7507.9	7529.9	7651.0	7802.4	7882.2	8063.9	7937.3	7970.3	7901.5	7659.3	7469.4
5°	7279.5	7276.7	7430.9	7805.2	8160.2	8520.7	8531.7	8339.1	8000.6	7629.0	7097.9
7.5°	6591.5	6698.8	6858.4	7455.6	8113.4	8383.1	8512.5	8286.8	7766.6	7235.5	6660.3
10°	6071.3	6126.3	6396.0	7117.1	7598.7	7959.3	8039.1	7909.7	7510.7	6847.4	6203.4
12.5°	5771.3	5798.8	6115.3	6720.8	7230.0	7496.9	7535.4	7596.0	7309.8	6687.8	5914.4
15°	5774.1	5796.1	6222.7	6729.1	6930.0	6858.4	6985.0	6982.3	7106.1	6657.5	6156.6
17.5°	6189.6	6214.4	6599.7	6850.2	6762.1	6594.2	6585.9	6712.5	6974.0	7034.6	6522.6
20°	6905.2	6963.0	7246.5	7232.7	6737.3	6398.8	6305.2	6401.6	7009.8	7353.8	7260.2
22.5°	7868.5	7948.3	8146.4	7766.6	6850.2	6266.7	6236.4	6423.6	7246.5	8066.6	8096.9
25°	8985.8	9120.7	9217.0	8729.9	7252.0	6495.1	6352.0	6674.0	7565.7	8840.0	9162.0
27.5°	9726.2	9866.5	9844.5	9148.2	7521.7	6555.7	6434.6	6734.6	7843.7	9024.4	9717.9
30°	10304.1	10389.5	10543.6	9373.9	7791.4	6726.3	6519.9	6990.5	7934.5	9343.6	10389.5
32.5°	10978.4	11036.2	11047.2	9773.0	8207.0	6941.0	6784.1	7309.8	8336.3	9649.1	10983.9
35°	11658.2	11743.5	11564.6	10265.6	8462.9	7340.0	7224.5	7863.0	8658.3	9965.6	11638.9
37.5°	12395.8	12439.8	12027.0	10469.3	8829.0	7989.6	7926.3	8460.2	9217.0	10538.1	12365.5
40°	13015.0	13056.3	12519.6	10719.7	9214.3	8897.8	9060.2	9599.6	9976.6	10909.6	12728.8
42.5°	13359.0	13455.4	12684.8	10582.1	9987.6	9927.1	10648.2	10838.1	10857.3	11014.2	13053.6
45°	13452.6	13408.6	12412.3	10694.9	10664.7	11619.7	12274.7	12525.1	11732.5	11206.8	13136.1
47.5°	13020.5	13078.3	12010.5	10595.9	11553.6	12902.2	13749.9	14215.0	12384.8	11039.0	12932.5
50°	12671.0	12596.7	11881.1	10524.3	11793.1	13507.7	14814.9	14919.5	12984.8	11245.4	12709.5
52.5°	12739.8	12786.6	12087.5	10714.2	11798.6	13543.4	14980.1	14908.5	13004.0	11198.6	12629.7
55°	12885.7	12679.3	11999.5	10295.9	11008.7	12544.4	13295.7	13185.7	12002.2	10700.4	12434.3
57.5°	11118.8	11438.0	11033.5	9192.3	9035.4	9451.0	9437.2	9775.7	8952.8	9208.8	11319.7
60°	9024.4	9079.4	9230.8	7863.0	6252.9	6109.8	5911.7	5697.0	6024.5	7874.0	10295.9
62.5°	7937.3	7871.2	8410.6	7152.9	4414.5	3696.2	3663.1	3795.2	4648.4	7510.7	9657.4
65°	5768.6	5851.1	6241.9	5551.1	3313.6	2821.0	2771.4	3162.2	3762.2	6019.0	7370.3
67.5°	3522.8	3682.4	3718.2	3423.7	2248.5	1786.2	1714.6	2069.6	2716.4	3894.3	4320.9
70°	1626.5	1819.2	2000.8	1868.7	1301.8	734.8	693.5	869.7	1370.6	2240.3	2292.6
72.5°	492.6	495.4	693.5	723.8	421.1	165.1	145.9	192.7	465.1	740.3	778.9
75°	35.8	38.5	93.6	107.3	79.8	41.3	44.0	52.3	99.1	165.1	123.8
77.5°	2.8	2.8	2.8	13.8	24.8	27.5	35.8	41.3	52.3	60.5	55.0
80°	2.8	0.0	2.8	11.0	19.3	27.5	33.0	38.5	41.3	46.8	41.3
82.5°	0.0	0.0	0.0	8.3	19.3	27.5	30.3	41.3	46.8	55.0	46.8
85°	0.0	0.0	0.0	8.3	19.3	30.3	27.5	13.8	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°	7095.1	7095.1	7095.1	7095.1	7095.1	7095.1	7095.1	7095.1	7095.1	7095.1	7095.1
2.5°	7502.4	7395.1	7150.1	7026.3	6734.6	6693.3	6407.1	6360.3	6263.9	6211.7	6085.1
5°	6863.9	6734.6	6335.5	5999.7	5608.9	5336.5	5127.3	4937.4	4827.3	4725.5	4772.3
7.5°	6343.8	5966.7	5523.6	4962.2	4510.8	4219.1	3899.8	3638.4	3484.3	3379.7	3404.4
10°	5798.8	5553.9	4937.4	4307.2	3762.2	3555.8	3305.4	3104.5	2887.0	2699.9	2611.8
12.5°	5628.2	5264.9	4491.5	3850.3	3437.5	3236.6	2950.3	2719.1	2441.2	2212.7	2132.9
15°	5658.5	5308.9	4370.5	3685.2	3198.0	2851.3	2510.0	2223.8	1918.3	1758.6	1676.1
17.5°	6151.1	5545.6	4450.3	3511.8	2865.0	2383.4	1962.3	1599.0	1370.6	1205.5	1169.7
20°	6756.6	6057.5	4620.9	3385.2	2592.5	1896.2	1433.9	1120.1	930.2	902.7	894.5
22.5°	7642.8	6894.2	4986.9	3299.9	2259.5	1477.9	982.5	814.6	762.4	756.8	759.6
25°	8881.3	7942.8	5386.0	3228.3	2009.1	1139.4	803.6	690.8	674.3	666.0	679.8
27.5°	9417.9	8575.8	5597.9	3074.2	1780.7	1026.6	792.6	685.3	638.5	624.7	633.0
30°	10081.2	8996.9	5930.9	2810.0	1444.9	844.9	740.3	745.8	723.8	655.0	633.0
32.5°	10961.9	9522.5	6098.8	2622.8	1290.8	699.1	542.2	498.1	555.9	566.9	586.2
35°	11526.1	10056.4	6184.1	2512.7	1211.0	597.2	459.6	418.3	404.6	407.3	418.3
37.5°	12574.7	10777.5	6291.5	2397.1	1150.4	520.2	415.6	377.0	357.8	357.8	368.8
40°	13202.2	11350.0	6437.3	2333.8	1089.9	473.4	377.0	344.0	327.5	327.5	333.0
42.5°	13359.0	11633.4	6387.8	2311.8	1021.1	462.4	344.0	319.3	300.0	297.2	294.5
45°	13639.8	12065.5	6396.0	2287.1	949.5	421.1	324.8	297.2	269.7	267.0	264.2
47.5°	13948.0	12376.5	6412.6	2190.7	880.7	352.3	338.5	275.2	242.2	236.7	236.7
50°	13683.8	12624.2	6555.7	2094.4	792.6	286.2	333.0	258.7	214.7	206.4	209.2
52.5°	13716.8	12915.9	6858.4	1959.5	682.5	228.4	269.7	244.9	195.4	181.6	184.4
55°	13188.4	12607.7	6899.7	1816.4	533.9	176.1	206.4	214.7	165.1	159.6	159.6
57.5°	11352.7	10675.7	6087.8	1472.4	352.3	145.9	148.6	187.1	143.1	137.6	140.4
60°	9715.2	8570.3	4898.9	971.5	220.2	115.6	107.3	189.9	126.6	123.8	132.1
62.5°	8856.5	7042.8	3715.4	602.7	151.4	88.1	74.3	154.1	110.1	110.1	121.1
65°	6398.8	4731.0	2160.5	316.5	107.3	68.8	55.0	88.1	90.8	93.6	99.1
67.5°	3963.1	2388.9	911.0	154.1	71.6	46.8	35.8	55.0	60.5	60.5	66.1
70°	1956.8	952.3	302.7	88.1	55.0	38.5	24.8	30.3	30.3	27.5	30.3
72.5°	605.5	286.2	77.1	55.0	38.5	24.8	13.8	11.0	5.5	0.0	2.8
75°	68.8	55.0	49.5	38.5	24.8	11.0	2.8	0.0	0.0	0.0	0.0
77.5°	41.3	46.8	46.8	38.5	24.8	8.3	0.0	0.0	0.0	0.0	0.0
80°	33.0	35.8	38.5	35.8	22.0	11.0	0.0	0.0	0.0	0.0	0.0
82.5°	41.3	46.8	52.3	46.8	30.3	13.8	5.5	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	8.3	2.8	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°	7095.1	7095.1	7095.1	7095.1	7095.1	7095.1	7095.1	7095.1	7095.1	7095.1	7095.1
2.5°	6032.8	5972.2	6057.5	5930.9	5928.2	5930.9	5895.2	5862.1	5914.4	6054.8	6068.5
5°	4604.4	4733.7	4775.0	4909.9	4835.6	4725.5	4747.5	4673.2	4854.8	4934.6	4871.3
7.5°	3352.1	3343.9	3621.9	3638.4	3674.2	3676.9	3671.4	3525.5	3376.9	3409.9	3509.0
10°	2600.8	2460.4	2595.3	2581.5	2669.6	2644.8	2680.6	2523.7	2576.0	2576.0	2639.3
12.5°	2119.2	1970.6	1945.8	1910.0	1945.8	1959.5	1973.3	1943.0	2031.1	2072.4	2116.4
15°	1618.3	1535.7	1513.7	1444.9	1455.9	1494.4	1527.5	1541.2	1513.7	1577.0	1582.5
17.5°	1175.2	1172.4	1186.2	1183.4	1172.4	1164.2	1161.4	1125.6	1114.6	1120.1	1142.2
20°	891.7	913.7	960.5	1007.3	1032.1	1001.8	960.5	900.0	875.2	880.7	883.4
22.5°	762.4	795.4	858.7	911.0	935.7	880.7	806.4	754.1	743.1	740.3	737.6
25°	690.8	729.3	776.1	792.6	789.9	756.8	701.8	679.8	674.3	668.8	644.0
27.5°	652.3	666.0	674.3	693.5	701.8	679.8	666.0	633.0	627.5	627.5	611.0
30°	630.2	622.0	633.0	619.2	630.2	613.7	616.5	616.5	602.7	608.2	608.2
32.5°	586.2	589.0	589.0	561.4	569.7	550.4	569.7	586.2	589.0	591.7	613.7
35°	429.3	478.9	503.6	503.6	511.9	498.1	495.4	476.1	451.4	426.6	415.6
37.5°	377.0	396.3	429.3	448.6	462.4	451.4	426.6	396.3	382.6	371.5	360.5
40°	335.8	352.3	374.3	396.3	423.8	410.1	371.5	357.8	341.3	341.3	330.3
42.5°	302.7	311.0	324.8	357.8	388.1	360.5	333.0	322.0	313.7	311.0	308.2
45°	272.5	275.2	289.0	316.5	352.3	324.8	297.2	283.5	286.2	289.0	286.2
47.5°	244.9	250.4	258.7	291.7	313.7	300.0	269.7	261.5	261.5	261.5	264.2
50°	211.9	225.7	242.2	269.7	286.2	278.0	253.2	242.2	236.7	236.7	239.4
52.5°	189.9	200.9	222.9	256.0	278.0	264.2	239.4	222.9	211.9	209.2	214.7
55°	165.1	184.4	220.2	244.9	275.2	261.5	233.9	214.7	195.4	192.7	192.7
57.5°	148.6	178.9	211.9	242.2	267.0	256.0	233.9	209.2	184.4	181.6	181.6
60°	140.4	173.4	206.4	233.9	267.0	250.4	231.2	203.7	176.1	176.1	173.4
62.5°	132.1	162.4	195.4	222.9	256.0	242.2	222.9	195.4	167.9	167.9	162.4
65°	110.1	140.4	162.4	187.1	222.9	209.2	189.9	170.6	148.6	143.1	145.9
67.5°	77.1	96.3	118.3	143.1	165.1	159.6	151.4	137.6	118.3	115.6	112.8
70°	38.5	52.3	71.6	96.3	115.6	110.1	104.6	93.6	82.6	79.8	79.8
72.5°	5.5	16.5	30.3	44.0	60.5	63.3	60.5	57.8	55.0	52.3	55.0
75°	0.0	0.0	0.0	11.0	24.8	30.3	35.8	41.3	41.3	35.8	44.0
77.5°	0.0	0.0	0.0	0.0	2.8	13.8	27.5	35.8	44.0	38.5	52.3
80°	0.0	0.0	0.0	0.0	2.8	16.5	27.5	38.5	44.0	38.5	55.0
82.5°	0.0	0.0	0.0	0.0	2.8	19.3	27.5	35.8	41.3	38.5	49.5
85°	0.0	0.0	0.0	0.0	8.3	16.5	11.0	5.5	2.8	2.8	8.3
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-SA7A-830-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7095.1	7095.1	7095.1	7095.1	7095.1	7095.1	7095.1	7095.1	7095.1	7095.1
2.5°	6145.6	6341.0	6550.2	6630.0	6877.7	7064.8	7191.4	7463.9	7505.2	7507.9
5°	4937.4	5036.5	5394.3	5562.1	5930.9	6217.2	6522.6	6963.0	7257.5	7279.5
7.5°	3509.0	3784.2	3935.6	4373.2	4827.3	5275.9	5730.0	6241.9	6583.2	6591.5
10°	2823.7	3002.6	3272.3	3599.8	3982.4	4439.3	5044.7	5639.2	5986.0	6071.3
12.5°	2273.3	2587.0	2895.3	3233.8	3525.5	3869.6	4521.8	5314.4	5600.7	5771.3
15°	1750.4	2036.6	2399.9	2796.2	3126.5	3586.1	4329.2	5234.6	5716.3	5774.1
17.5°	1290.8	1546.7	1882.5	2256.8	2752.2	3404.4	4362.2	5639.2	6093.3	6189.6
20°	927.5	1076.1	1340.3	1775.2	2405.4	3192.5	4395.2	6049.3	6740.1	6905.2
22.5°	734.8	795.4	968.8	1354.1	2017.3	2969.6	4629.2	6833.6	7629.0	7868.5
25°	638.5	671.5	754.1	1067.8	1772.4	2947.6	5003.5	7774.9	8812.5	8985.8
27.5°	616.5	622.0	693.5	979.8	1640.3	2801.7	5146.6	8443.7	9550.0	9726.2
30°	649.5	737.6	743.1	828.4	1395.4	2512.7	5220.9	9090.4	10174.8	10304.1
32.5°	561.4	533.9	553.2	641.3	1227.5	2344.9	5361.2	9654.6	10887.6	10978.4
35°	390.8	410.1	454.1	555.9	1073.3	2168.7	5397.0	10276.6	11564.6	11658.2
37.5°	360.5	371.5	407.3	473.4	944.0	2069.6	5347.5	10730.7	12266.4	12395.8
40°	335.8	349.5	368.8	429.3	847.7	1959.5	5278.7	11140.8	12695.8	13015.0
42.5°	316.5	327.5	344.0	410.1	765.1	1849.5	5182.3	11718.8	13081.1	13359.0
45°	294.5	311.0	330.3	399.1	718.3	1775.2	5110.8	11683.0	13304.0	13452.6
47.5°	272.5	300.0	322.0	371.5	704.6	1739.4	5141.1	11548.1	13122.4	13020.5
50°	250.4	286.2	324.8	308.2	671.5	1667.8	5176.8	11732.5	12690.3	12671.0
52.5°	231.2	272.5	302.7	253.2	597.2	1599.0	5523.6	11974.7	12995.8	12739.8
55°	203.7	244.9	242.2	203.7	484.4	1546.7	5796.1	11980.2	12789.3	12885.7
57.5°	184.4	217.4	189.9	170.6	357.8	1293.5	5353.0	10045.4	10948.1	11118.8
60°	170.6	211.9	143.1	134.9	233.9	933.0	4673.2	7780.4	8702.4	9024.4
62.5°	156.9	200.9	112.8	110.1	162.4	663.3	3842.0	6511.6	7499.7	7937.3
65°	137.6	143.1	90.8	85.3	115.6	357.8	2339.3	4483.3	5606.2	5768.6
67.5°	112.8	110.1	74.3	68.8	77.1	173.4	1032.1	2245.8	3250.3	3522.8
70°	90.8	90.8	63.3	55.0	55.0	79.8	269.7	894.5	1469.7	1626.5
72.5°	66.1	68.8	49.5	44.0	41.3	38.5	44.0	178.9	385.3	492.6
75°	57.8	60.5	49.5	38.5	30.3	24.8	19.3	16.5	22.0	35.8
77.5°	63.3	63.3	52.3	35.8	27.5	19.3	11.0	5.5	5.5	2.8
80°	79.8	82.6	68.8	46.8	33.0	22.0	13.8	5.5	2.8	2.8
82.5°	85.3	93.6	77.1	57.8	41.3	24.8	13.8	2.8	0.0	0.0
85°	22.0	35.8	60.5	52.3	41.3	24.8	13.8	2.8	0.0	0.0
87.5°	0.0	2.8	8.3	8.3	11.0	11.0	8.3	2.8	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)