

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: P529977

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529977
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-SA5A-830-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 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



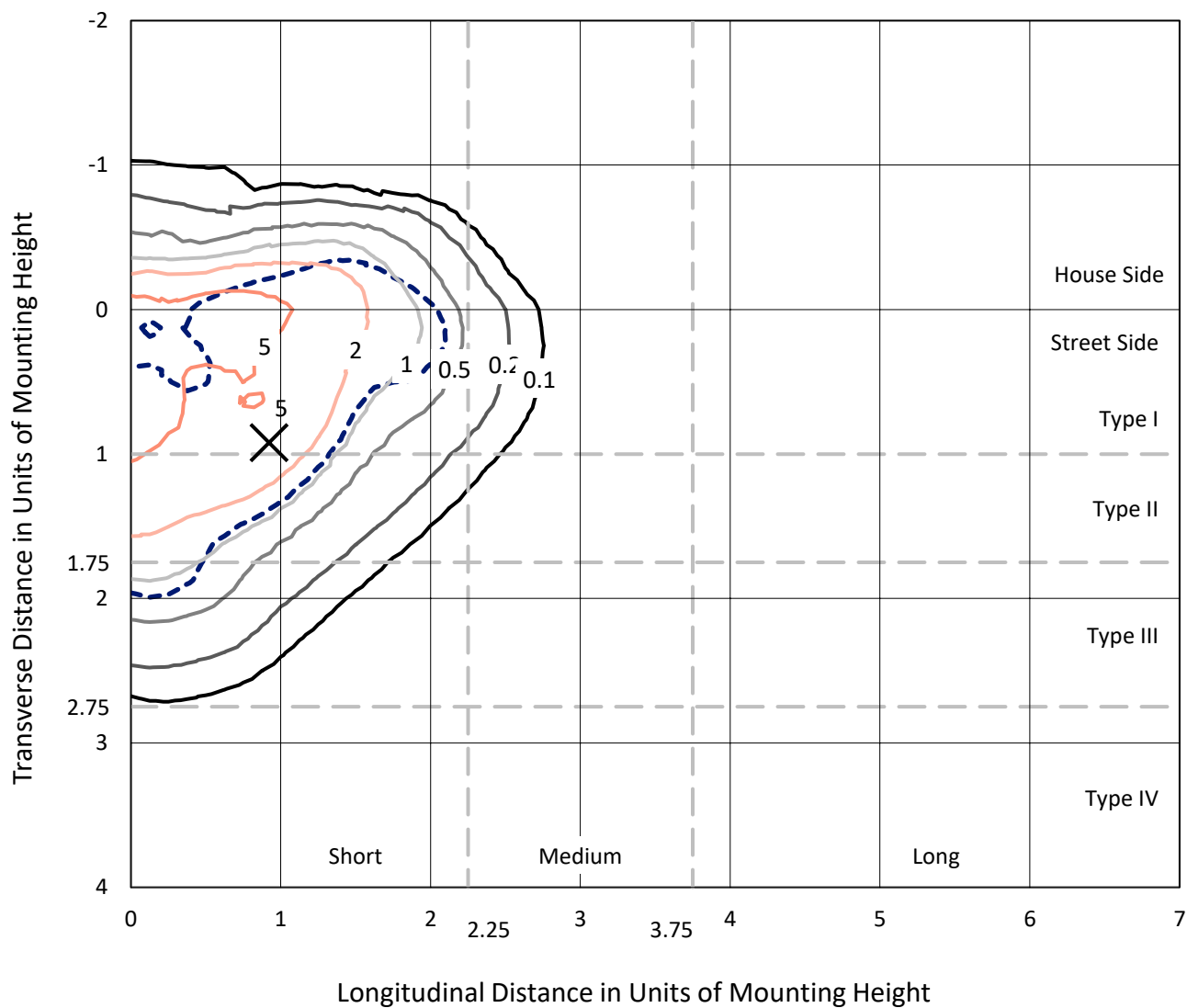
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

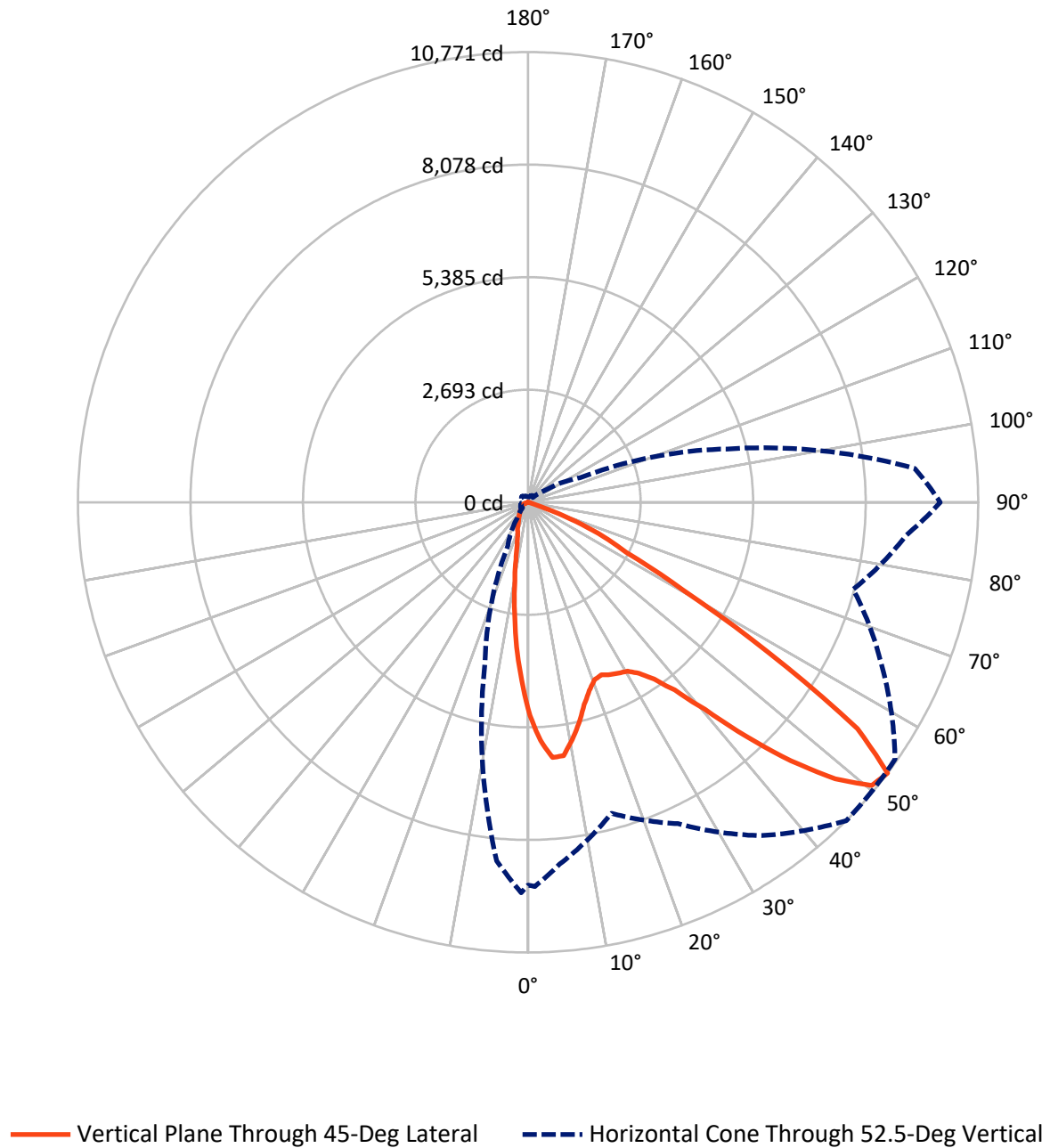
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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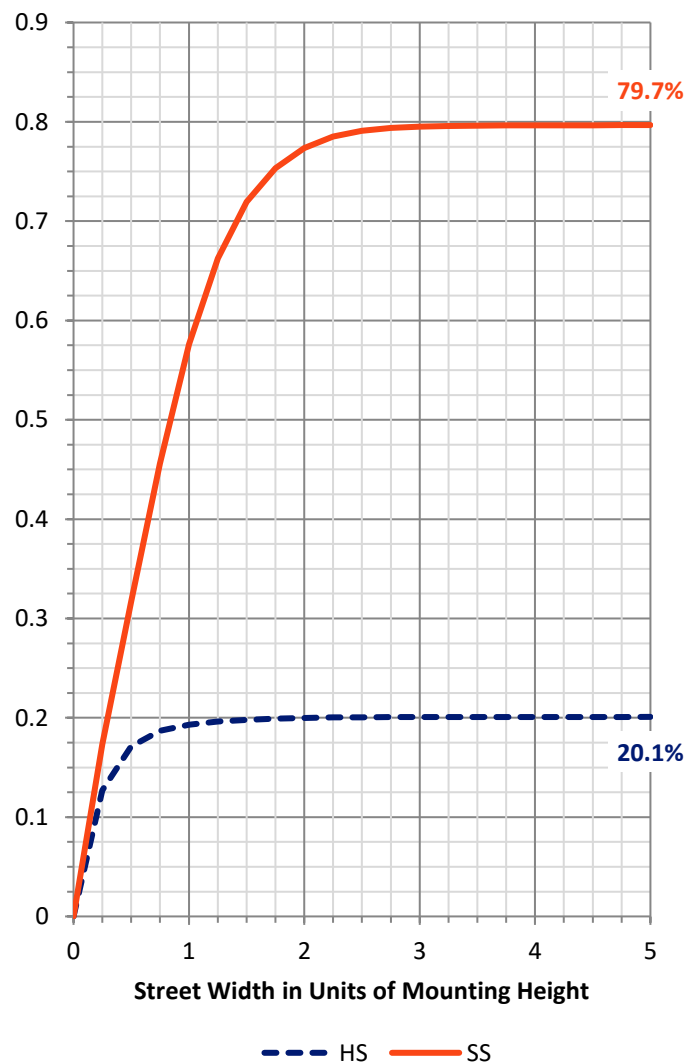
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2041.9	0.0	2041.9
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	8019.1	0.0	8019.1
	% Fixture	79.7	0.0	79.7
Total	Lumens	10061.0	0.0	10061.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.0	3.7
10°-20°	734.0	7.3
20°-30°	1117.0	11.1
30°-40°	1669.6	16.6
40°-50°	2377.6	23.6
50°-60°	2555.9	25.4
60°-70°	1132.6	11.3
70°-80°	91.6	0.9
80°-90°	10.7	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°	10061.0	100.0
0°-180°	10061.0	100.0

Coefficient of Utilization



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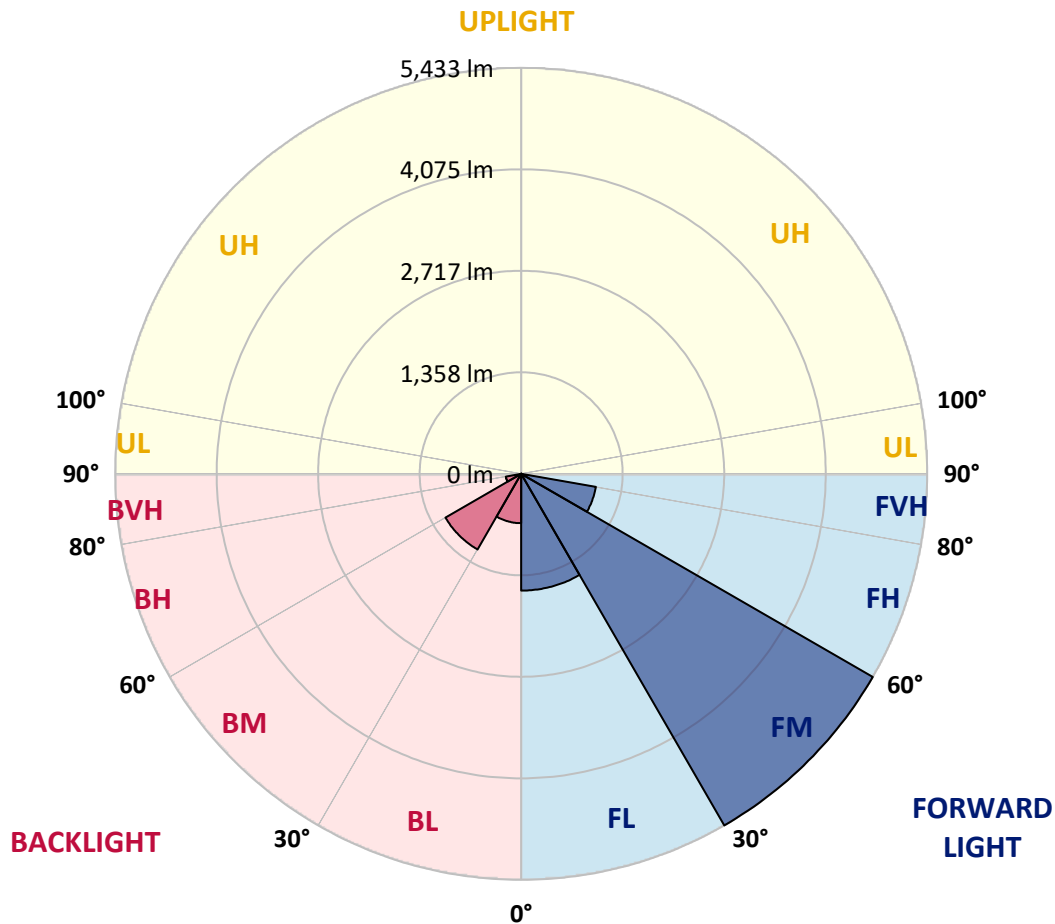
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1562.7	15.5			
FM	(30°-60°)	5433.3	54.0			
FH	(60°-80°)	1015.3	10.1			G1/1800
FVH	(80°-90°)	7.9	0.1			G0/10
BL	(0°-30°)	660.4	6.6	B2/1000		
BM	(30°-60°)	1169.8	11.6	B2/2500		
BH	(60°-80°)	208.9	2.1	B1/500		G1/500
BVH	(80°-90°)	2.8	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°	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4
2.5°	5398.2	5414.0	5501.1	5610.0	5667.3	5797.9	5706.9	5730.7	5681.2	5507.1	5370.5
5°	5234.0	5232.0	5342.8	5611.9	5867.2	6126.4	6134.3	5995.8	5752.4	5485.3	5103.4
7.5°	4739.3	4816.4	4931.2	5360.6	5833.6	6027.5	6120.5	5958.2	5584.2	5202.3	4788.7
10°	4365.3	4404.9	4598.8	5117.2	5463.5	5722.7	5780.1	5687.1	5400.2	4923.3	4460.3
12.5°	4149.6	4169.4	4396.9	4832.3	5198.4	5390.3	5418.0	5461.5	5255.7	4808.5	4252.5
15°	4151.6	4167.4	4474.1	4838.2	4982.7	4931.2	5022.2	5020.3	5109.3	4786.8	4426.6
17.5°	4450.4	4468.2	4745.2	4925.3	4862.0	4741.2	4735.3	4826.3	5014.3	5057.9	4689.8
20°	4964.9	5006.4	5210.2	5200.3	4844.1	4600.8	4533.5	4602.7	5040.1	5287.4	5220.1
22.5°	5657.4	5714.8	5857.3	5584.2	4925.3	4505.8	4484.0	4618.6	5210.2	5799.9	5821.7
25°	6460.8	6557.8	6627.1	6276.8	5214.2	4670.0	4567.1	4798.6	5439.8	6356.0	6587.5
27.5°	6993.1	7094.1	7078.2	6577.6	5408.1	4713.5	4626.5	4842.2	5639.6	6488.5	6987.2
30°	7408.7	7470.0	7580.9	6739.9	5602.0	4836.2	4687.8	5026.2	5704.9	6718.1	7470.0
32.5°	7893.5	7935.1	7943.0	7026.8	5900.8	4990.6	4877.8	5255.7	5993.8	6937.7	7897.5
35°	8382.3	8443.6	8315.0	7381.0	6084.9	5277.5	5194.4	5653.5	6225.4	7165.3	8368.4
37.5°	8912.6	8944.3	8647.4	7527.4	6348.1	5744.5	5699.0	6082.9	6627.1	7576.9	8890.8
40°	9357.8	9387.5	9001.6	7707.5	6625.1	6397.5	6514.3	6902.1	7173.2	7844.0	9152.0
42.5°	9605.2	9674.4	9120.4	7608.6	7181.1	7137.6	7656.0	7792.6	7806.4	7919.2	9385.5
45°	9672.5	9640.8	8924.5	7689.7	7667.9	8354.6	8825.5	9005.6	8435.7	8057.7	9444.9
47.5°	9361.8	9403.3	8635.6	7618.5	8307.1	9276.7	9886.2	10220.6	8904.7	7937.0	9298.5
50°	9110.5	9057.1	8542.6	7567.0	8479.2	9712.0	10652.0	10727.2	9336.1	8085.5	9138.2
52.5°	9160.0	9193.6	8691.0	7703.5	8483.2	9737.8	10770.7	10719.3	9349.9	8051.8	9080.8
55°	9264.8	9116.4	8627.6	7402.8	7915.3	9019.5	9559.7	9480.5	8629.6	7693.6	8940.3
57.5°	7994.4	8224.0	7933.1	6609.3	6496.5	6795.3	6785.4	7028.8	6437.1	6621.1	8138.9
60°	6488.5	6528.1	6637.0	5653.5	4495.9	4393.0	4250.5	4096.2	4331.6	5661.4	7402.8
62.5°	5706.9	5659.4	6047.3	5142.9	3174.0	2657.6	2633.8	2728.8	3342.2	5400.2	6943.7
65°	4147.6	4207.0	4488.0	3991.3	2382.5	2028.3	1992.7	2273.7	2705.0	4327.7	5299.3
67.5°	2532.9	2647.7	2673.4	2461.7	1616.7	1284.3	1232.8	1488.1	1953.1	2800.0	3106.7
70°	1169.5	1308.0	1438.6	1343.6	936.0	528.3	498.7	625.3	985.5	1610.8	1648.4
72.5°	354.2	356.2	498.7	520.4	302.8	118.7	104.9	138.5	334.4	532.3	560.0
75°	25.7	27.7	67.3	77.2	57.4	29.7	31.7	37.6	71.2	118.7	89.0
77.5°	2.0	2.0	2.0	9.9	17.8	19.8	25.7	29.7	37.6	43.5	39.6
80°	2.0	0.0	2.0	7.9	13.9	19.8	23.7	27.7	29.7	33.6	29.7
82.5°	0.0	0.0	0.0	5.9	13.9	19.8	21.8	29.7	33.6	39.6	33.6
85°	0.0	0.0	0.0	5.9	13.9	21.8	19.8	9.9	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°	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4
2.5°	5394.3	5317.1	5141.0	5051.9	4842.2	4812.5	4606.7	4573.1	4503.8	4466.2	4375.2
5°	4935.2	4842.2	4555.2	4313.8	4032.8	3836.9	3686.5	3550.0	3470.8	3397.6	3431.3
7.5°	4561.2	4290.1	3971.5	3567.8	3243.3	3033.5	2804.0	2616.0	2505.2	2430.0	2447.8
10°	4169.4	3993.3	3550.0	3096.9	2705.0	2556.6	2376.6	2232.1	2075.8	1941.2	1877.9
12.5°	4046.7	3785.5	3229.4	2768.4	2471.5	2327.1	2121.3	1955.1	1755.2	1591.0	1533.6
15°	4068.5	3817.1	3142.4	2649.6	2299.4	2050.1	1804.7	1598.9	1379.2	1264.5	1205.1
17.5°	4422.7	3987.3	3199.7	2525.0	2060.0	1713.7	1410.9	1149.7	985.5	866.7	841.0
20°	4858.0	4355.4	3322.4	2433.9	1864.0	1363.4	1031.0	805.4	668.8	649.1	643.1
22.5°	5495.2	4956.9	3585.6	2372.6	1624.6	1062.6	706.4	585.7	548.1	544.2	546.2
25°	6385.6	5710.9	3872.5	2321.2	1444.5	819.2	577.8	496.7	484.8	478.9	488.8
27.5°	6771.5	6166.0	4024.9	2210.3	1280.3	738.1	569.9	492.7	459.1	449.2	455.1
30°	7248.4	6468.8	4264.4	2020.4	1038.9	607.5	532.3	536.3	520.4	471.0	455.1
32.5°	7881.6	6846.7	4385.1	1885.8	928.1	502.6	389.8	358.2	399.7	407.6	421.5
35°	8287.3	7230.6	4446.4	1806.7	870.7	429.4	330.5	300.8	290.9	292.9	300.8
37.5°	9041.2	7749.1	4523.6	1723.6	827.1	374.0	298.8	271.1	257.2	257.2	265.2
40°	9492.4	8160.6	4628.5	1678.0	783.6	340.4	271.1	247.4	235.5	235.5	239.4
42.5°	9605.2	8364.5	4592.8	1662.2	734.1	332.4	247.4	229.5	215.7	213.7	211.7
45°	9807.0	8675.1	4598.8	1644.4	682.7	302.8	233.5	213.7	193.9	191.9	190.0
47.5°	10028.7	8898.7	4610.6	1575.1	633.2	253.3	243.4	197.9	174.1	170.2	170.2
50°	9838.7	9076.8	4713.5	1505.9	569.9	205.8	239.4	186.0	154.3	148.4	150.4
52.5°	9862.4	9286.6	4931.2	1408.9	490.7	164.2	193.9	176.1	140.5	130.6	132.6
55°	9482.5	9065.0	4960.9	1306.0	383.9	126.6	148.4	154.3	118.7	114.8	114.8
57.5°	8162.6	7675.8	4377.1	1058.7	253.3	104.9	106.9	134.6	102.9	98.9	100.9
60°	6985.2	6162.0	3522.3	698.5	158.3	83.1	77.2	136.5	91.0	89.0	95.0
62.5°	6367.8	5063.8	2671.4	433.4	108.8	63.3	53.4	110.8	79.2	79.2	87.1
65°	4600.8	3401.6	1553.4	227.6	77.2	49.5	39.6	63.3	65.3	67.3	71.2
67.5°	2849.5	1717.6	655.0	110.8	51.4	33.6	25.7	39.6	43.5	43.5	47.5
70°	1406.9	684.7	217.7	63.3	39.6	27.7	17.8	21.8	21.8	19.8	21.8
72.5°	435.3	205.8	55.4	39.6	27.7	17.8	9.9	7.9	4.0	0.0	2.0
75°	49.5	39.6	35.6	27.7	17.8	7.9	2.0	0.0	0.0	0.0	0.0
77.5°	29.7	33.6	33.6	27.7	17.8	5.9	0.0	0.0	0.0	0.0	0.0
80°	23.7	25.7	27.7	25.7	15.8	7.9	0.0	0.0	0.0	0.0	0.0
82.5°	29.7	33.6	37.6	33.6	21.8	9.9	4.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	5.9	2.0	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°	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4
2.5°	4337.6	4294.0	4355.4	4264.4	4262.4	4264.4	4238.6	4214.9	4252.5	4353.4	4363.3
5°	3310.6	3403.6	3433.3	3530.2	3476.8	3397.6	3413.5	3360.0	3490.6	3548.0	3502.5
7.5°	2410.2	2404.3	2604.1	2616.0	2641.7	2643.7	2639.7	2534.9	2428.0	2451.8	2523.0
10°	1870.0	1769.1	1866.0	1856.1	1919.5	1901.6	1927.4	1814.6	1852.2	1852.2	1897.7
12.5°	1523.7	1416.8	1399.0	1373.3	1399.0	1408.9	1418.8	1397.0	1460.4	1490.1	1521.7
15°	1163.5	1104.2	1088.4	1038.9	1046.8	1074.5	1098.2	1108.1	1088.4	1133.9	1137.8
17.5°	845.0	843.0	852.9	850.9	843.0	837.0	835.1	809.3	801.4	805.4	821.2
20°	641.1	657.0	690.6	724.2	742.1	720.3	690.6	647.1	629.3	633.2	635.2
22.5°	548.1	571.9	617.4	655.0	672.8	633.2	579.8	542.2	534.3	532.3	530.3
25°	496.7	524.4	558.0	569.9	567.9	544.2	504.6	488.8	484.8	480.9	463.0
27.5°	469.0	478.9	484.8	498.7	504.6	488.8	478.9	455.1	451.2	451.2	439.3
30°	453.1	447.2	455.1	445.2	453.1	441.3	443.3	443.3	433.4	437.3	437.3
32.5°	421.5	423.5	423.5	403.7	409.6	395.8	409.6	421.5	423.5	425.4	441.3
35°	308.7	344.3	362.1	362.1	368.1	358.2	356.2	342.3	324.5	306.7	298.8
37.5°	271.1	284.9	308.7	322.5	332.4	324.5	306.7	284.9	275.1	267.1	259.2
40°	241.4	253.3	269.1	284.9	304.7	294.8	267.1	257.2	245.4	245.4	237.5
42.5°	217.7	223.6	233.5	257.2	279.0	259.2	239.4	231.5	225.6	223.6	221.6
45°	195.9	197.9	207.8	227.6	253.3	233.5	213.7	203.8	205.8	207.8	205.8
47.5°	176.1	180.1	186.0	209.8	225.6	215.7	193.9	188.0	188.0	188.0	190.0
50°	152.4	162.3	174.1	193.9	205.8	199.9	182.1	174.1	170.2	170.2	172.2
52.5°	136.5	144.5	160.3	184.0	199.9	190.0	172.2	160.3	152.4	150.4	154.3
55°	118.7	132.6	158.3	176.1	197.9	188.0	168.2	154.3	140.5	138.5	138.5
57.5°	106.9	128.6	152.4	174.1	191.9	184.0	168.2	150.4	132.6	130.6	130.6
60°	100.9	124.7	148.4	168.2	191.9	180.1	166.2	146.4	126.6	126.6	124.7
62.5°	95.0	116.8	140.5	160.3	184.0	174.1	160.3	140.5	120.7	120.7	116.8
65°	79.2	100.9	116.8	134.6	160.3	150.4	136.5	122.7	106.9	102.9	104.9
67.5°	55.4	69.3	85.1	102.9	118.7	114.8	108.8	98.9	85.1	83.1	81.1
70°	27.7	37.6	51.4	69.3	83.1	79.2	75.2	67.3	59.4	57.4	57.4
72.5°	4.0	11.9	21.8	31.7	43.5	45.5	43.5	41.6	39.6	37.6	39.6
75°	0.0	0.0	0.0	7.9	17.8	21.8	25.7	29.7	29.7	25.7	31.7
77.5°	0.0	0.0	0.0	0.0	2.0	9.9	19.8	25.7	31.7	27.7	37.6
80°	0.0	0.0	0.0	0.0	2.0	11.9	19.8	27.7	31.7	27.7	39.6
82.5°	0.0	0.0	0.0	0.0	2.0	13.9	19.8	25.7	29.7	27.7	35.6
85°	0.0	0.0	0.0	0.0	5.9	11.9	7.9	4.0	2.0	2.0	5.9
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-SA5A-830-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4
2.5°	4418.7	4559.2	4709.6	4767.0	4945.1	5079.6	5170.7	5366.6	5396.2	5398.2
5°	3550.0	3621.2	3878.5	3999.2	4264.4	4470.2	4689.8	5006.4	5218.1	5234.0
7.5°	2523.0	2720.9	2829.7	3144.3	3470.8	3793.4	4119.9	4488.0	4733.3	4739.3
10°	2030.3	2158.9	2352.8	2588.3	2863.4	3191.8	3627.2	4054.6	4303.9	4365.3
12.5°	1634.5	1860.1	2081.7	2325.1	2534.9	2782.2	3251.2	3821.1	4026.9	4149.6
15°	1258.5	1464.3	1725.5	2010.5	2247.9	2578.4	3112.7	3763.7	4110.0	4151.6
17.5°	928.1	1112.1	1353.5	1622.6	1978.8	2447.8	3136.4	4054.6	4381.1	4450.4
20°	666.9	773.7	963.7	1276.3	1729.5	2295.4	3160.2	4349.4	4846.1	4964.9
22.5°	528.3	571.9	696.5	973.6	1450.5	2135.1	3328.4	4913.4	5485.3	5657.4
25°	459.1	482.8	542.2	767.8	1274.4	2119.3	3597.5	5590.2	6336.2	6460.8
27.5°	443.3	447.2	498.7	704.5	1179.4	2014.4	3700.4	6071.0	6866.5	6993.1
30°	467.0	530.3	534.3	595.6	1003.3	1806.7	3753.8	6536.0	7315.7	7408.7
32.5°	403.7	383.9	397.7	461.1	882.6	1686.0	3854.7	6941.7	7828.2	7893.5
35°	281.0	294.8	326.5	399.7	771.7	1559.3	3880.5	7388.9	8315.0	8382.3
37.5°	259.2	267.1	292.9	340.4	678.7	1488.1	3844.8	7715.4	8819.6	8912.6
40°	241.4	251.3	265.2	308.7	609.5	1408.9	3795.4	8010.3	9128.3	9357.8
42.5°	227.6	235.5	247.4	294.8	550.1	1329.8	3726.1	8425.8	9405.3	9605.2
45°	211.7	223.6	237.5	286.9	516.5	1276.3	3674.7	8400.1	9565.6	9672.5
47.5°	195.9	215.7	231.5	267.1	506.6	1250.6	3696.4	8303.1	9435.0	9361.8
50°	180.1	205.8	233.5	221.6	482.8	1199.2	3722.2	8435.7	9124.3	9110.5
52.5°	166.2	195.9	217.7	182.1	429.4	1149.7	3971.5	8609.8	9344.0	9160.0
55°	146.4	176.1	174.1	146.4	348.3	1112.1	4167.4	8613.8	9195.6	9264.8
57.5°	132.6	156.3	136.5	122.7	257.2	930.0	3848.8	7222.7	7871.7	7994.4
60°	122.7	152.4	102.9	97.0	168.2	670.8	3360.0	5594.1	6257.0	6488.5
62.5°	112.8	144.5	81.1	79.2	116.8	476.9	2762.4	4681.9	5392.3	5706.9
65°	98.9	102.9	65.3	61.3	83.1	257.2	1682.0	3223.5	4030.9	4147.6
67.5°	81.1	79.2	53.4	49.5	55.4	124.7	742.1	1614.7	2337.0	2532.9
70°	65.3	65.3	45.5	39.6	39.6	57.4	193.9	643.1	1056.7	1169.5
72.5°	47.5	49.5	35.6	31.7	29.7	27.7	31.7	128.6	277.0	354.2
75°	41.6	43.5	35.6	27.7	21.8	17.8	13.9	11.9	15.8	25.7
77.5°	45.5	45.5	37.6	25.7	19.8	13.9	7.9	4.0	4.0	2.0
80°	57.4	59.4	49.5	33.6	23.7	15.8	9.9	4.0	2.0	2.0
82.5°	61.3	67.3	55.4	41.6	29.7	17.8	9.9	2.0	0.0	0.0
85°	15.8	25.7	43.5	37.6	29.7	17.8	9.9	2.0	0.0	0.0
87.5°	0.0	2.0	5.9	5.9	7.9	7.9	5.9	2.0	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)