

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: P532787

Luminaire Tested: **GALN-SA8A-830-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532787
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-SA8A-830-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 16222 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 - G1

Input Watts (W): 244
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



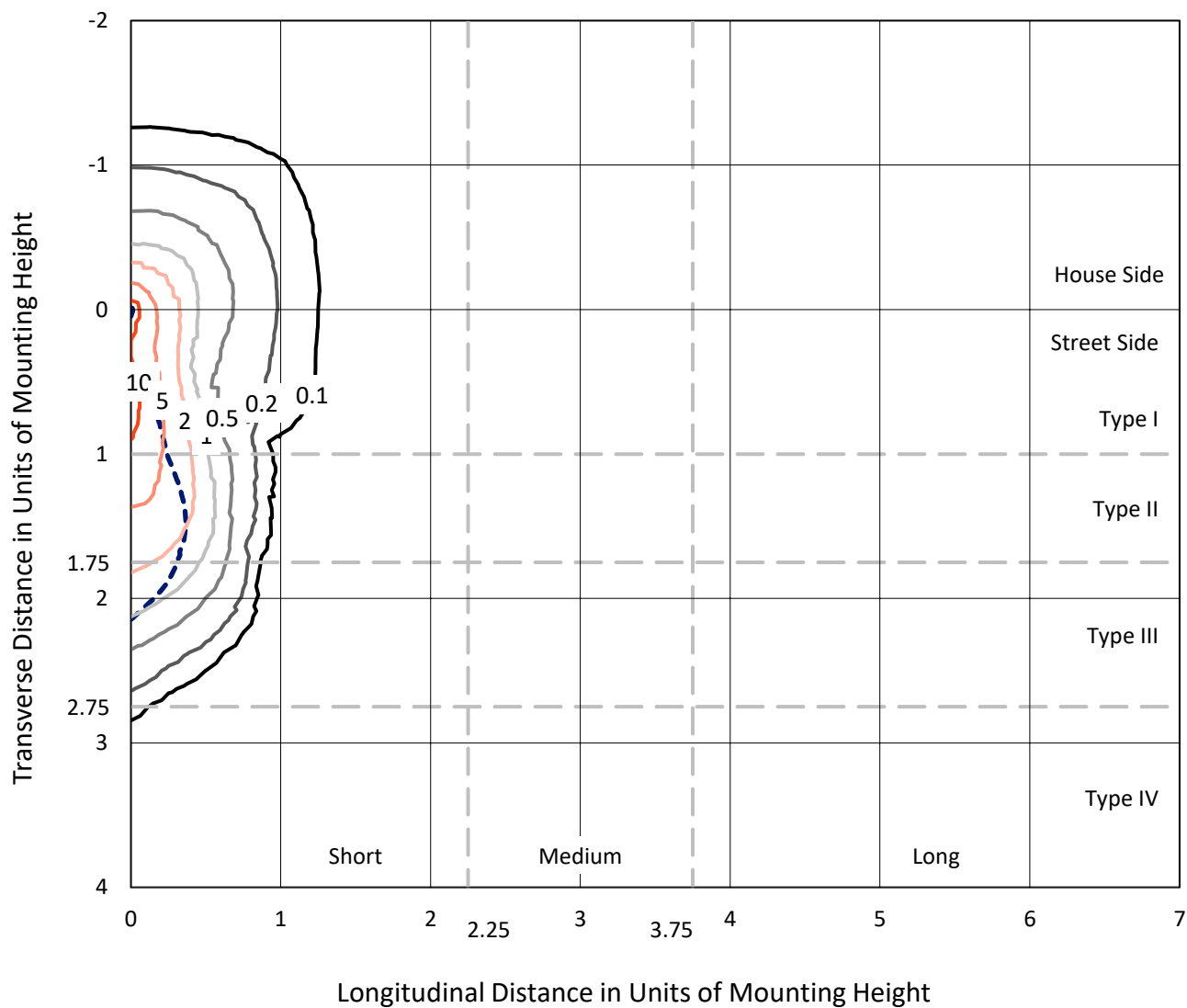
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



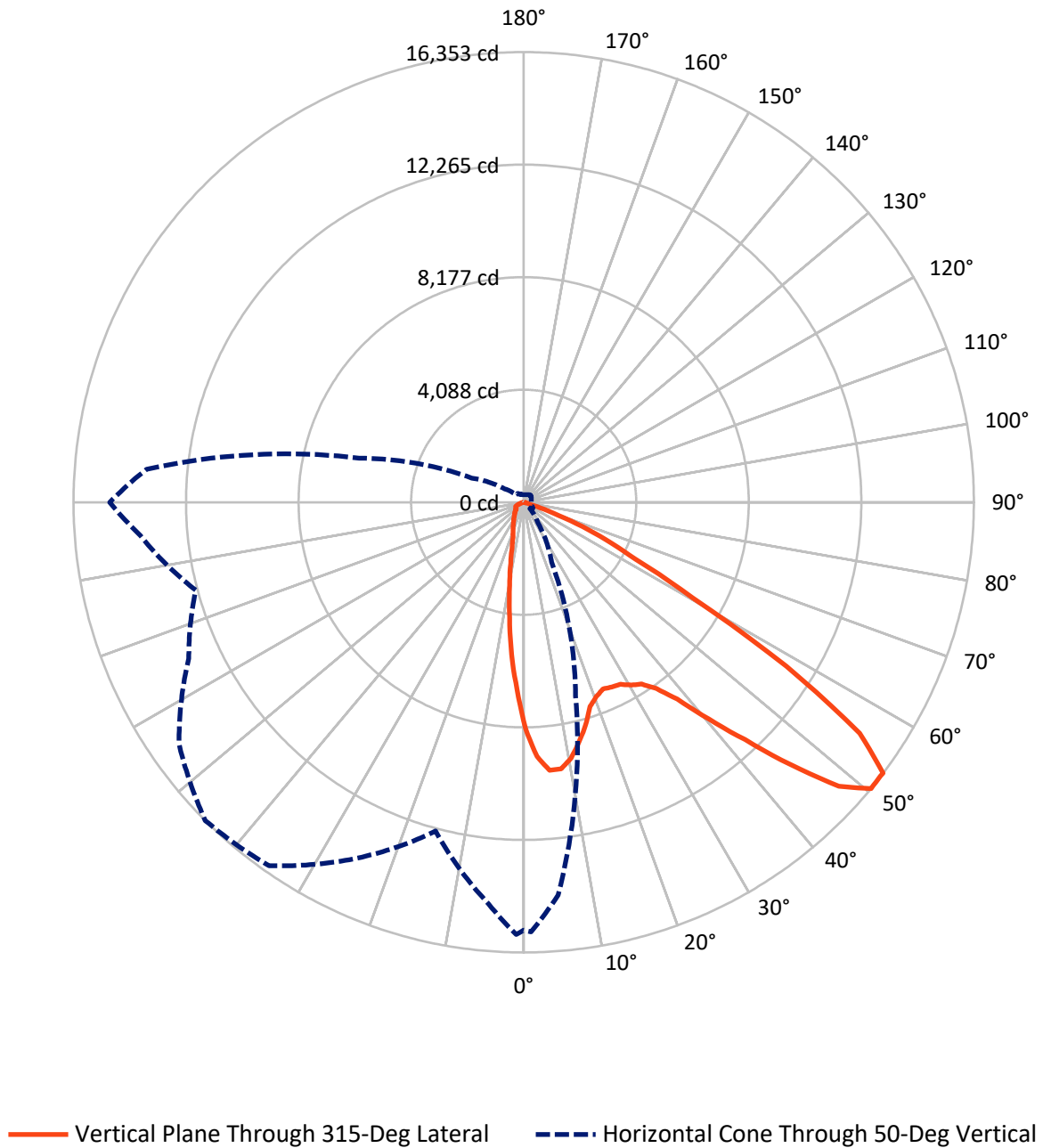
Based on 25 foot mounting height. Maximum calculated value = 13.2 fc

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	3249.3	0.0	3249.3
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	12972.7	0.0	12972.7
	% Fixture	80.0	0.0	80.0
Total	Lumens	16222.0	0.0	16222.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.6	3.7
10°-20°	1191.7	7.3
20°-30°	1790.4	11.0
30°-40°	2687.3	16.6
40°-50°	3776.8	23.3
50°-60°	4073.9	25.1
60°-70°	1891.5	11.7
70°-80°	178.0	1.1
80°-90°	32.8	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°	16222.0	100.0
0°-180°	16222.0	100.0

Coefficient of Utilization



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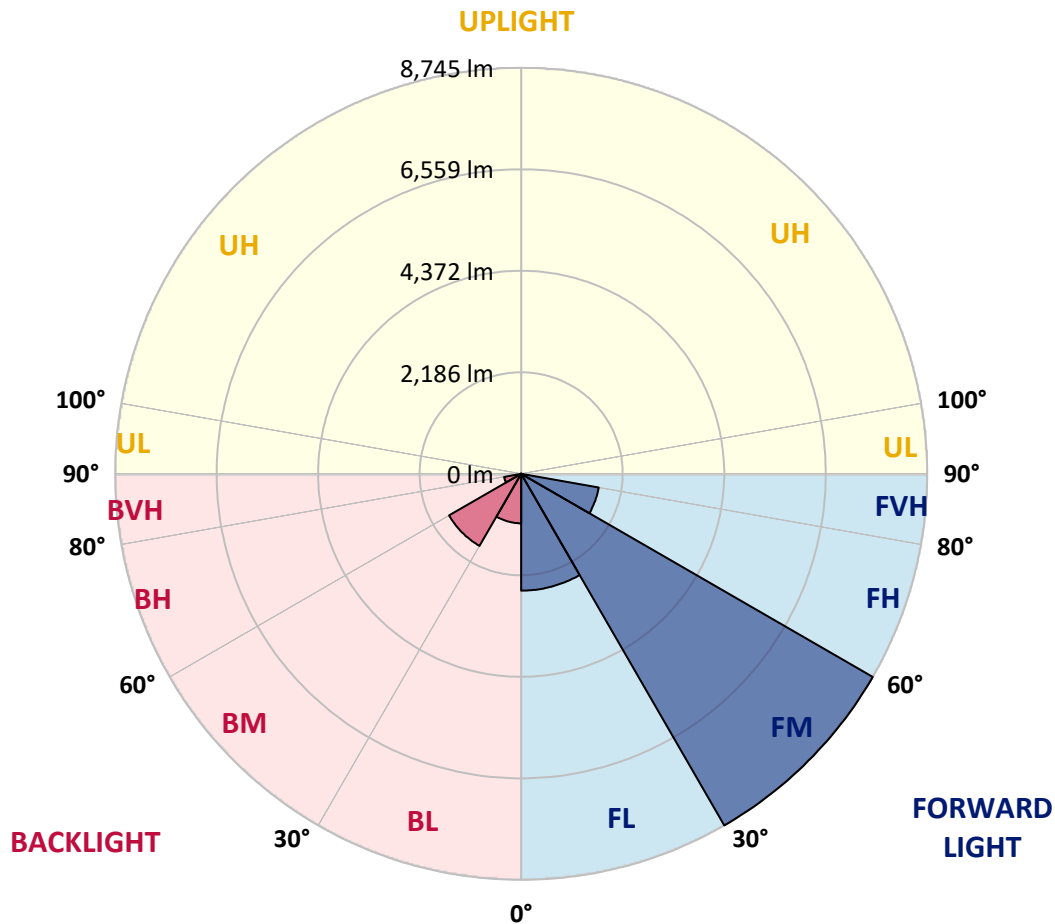
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2516.7	15.5			
FM	(30°-60°)	8744.9	53.9			
FH	(60°-80°)	1696.4	10.5			G1/1800
FVH	(80°-90°)	14.8	0.1			G1/100
BL	(0°-30°)	1065.0	6.6	B3/2500		
BM	(30°-60°)	1793.1	11.1	B2/2500		
BH	(60°-80°)	373.1	2.3	B1/500		G1/500
BVH	(80°-90°)	18.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8226.6	8226.6	8226.6	8226.6	8226.6	8226.6	8226.6	8226.6	8226.6	8226.6	8226.6
2.5°	8551.7	8419.7	8252.3	8113.9	7908.0	7492.8	7380.1	7244.9	7132.3	6981.0	6768.6
5°	7776.0	7734.2	7656.9	7135.5	6758.9	6256.8	5844.9	5671.1	5442.6	5255.9	5120.7
7.5°	7183.8	7016.4	6771.8	6247.2	5645.3	5107.8	4650.8	4383.7	4081.1	3978.1	3794.7
10°	6549.7	6588.4	6227.9	5490.8	4763.4	4328.9	4045.7	3788.2	3514.7	3334.4	3073.7
12.5°	6347.0	6221.4	5944.7	5033.8	4412.6	4007.1	3662.7	3344.1	3054.4	2764.7	2513.7
15°	6478.9	6285.8	5899.6	4937.2	4142.3	3637.0	3205.7	2774.4	2507.2	2137.1	1876.4
17.5°	6952.1	6797.6	6279.4	5040.2	4003.9	3282.9	2642.4	2198.3	1789.5	1454.8	1322.8
20°	7740.6	7521.7	6871.6	5172.2	3797.9	2854.8	2143.6	1596.4	1210.2	1068.6	994.5
22.5°	8513.0	8394.0	7573.2	5426.5	3614.4	2475.1	1609.3	1075.0	904.4	878.7	830.4
25°	9983.9	9626.7	8645.0	5886.7	3472.8	2117.8	1213.4	865.8	766.0	746.7	753.1
27.5°	10859.4	10560.0	9636.3	6192.5	3315.1	1844.2	1026.7	795.0	727.4	685.5	669.5
30°	11699.4	11351.8	10128.8	6372.7	2977.2	1554.6	910.8	762.8	746.7	685.5	666.2
32.5°	12346.3	12005.2	10840.1	6643.1	2838.8	1367.9	749.9	595.4	553.6	547.2	605.1
35°	13337.6	12974.0	11448.4	6791.1	2732.5	1271.3	650.1	531.1	482.8	463.5	466.7
37.5°	14261.4	14013.5	12011.6	6849.1	2619.9	1242.4	582.6	476.3	434.5	421.6	418.4
40°	15033.8	14480.2	12545.9	6910.2	2571.6	1187.6	540.7	434.5	405.5	386.2	386.2
42.5°	15387.9	14824.6	13144.5	6874.8	2558.7	1100.7	540.7	399.1	376.6	357.3	354.0
45°	15310.6	15082.1	13411.7	6858.7	2558.7	1013.8	492.4	389.4	357.3	331.5	325.1
47.5°	15510.2	15210.8	13746.4	6926.3	2507.2	952.7	415.2	408.8	337.9	305.8	299.3
50°	15545.6	15603.5	14329.0	7277.1	2394.6	875.4	325.1	402.3	325.1	276.8	270.4
52°	15777.3	15416.8	14506.0	7463.8	2275.5	817.5	273.6	344.4	312.2	257.5	251.0
52.5°	15458.7	15693.6	14547.8	7531.4	2288.4	778.9	263.9	337.9	305.8	257.5	241.4
55°	15101.4	15326.7	14377.2	7676.2	2098.5	611.5	206.0	244.6	276.8	225.3	215.6
57.5°	13125.2	13353.7	12494.4	7029.3	1709.0	431.3	170.6	183.5	244.6	209.2	199.5
60°	11667.2	11503.1	10486.0	5864.2	1213.4	241.4	135.2	141.6	267.1	193.1	189.9
62.5°	10663.0	10312.2	8764.1	4528.5	740.3	160.9	106.2	109.4	206.0	180.2	180.2
65°	7888.7	7496.0	5822.3	2739.0	363.7	112.6	80.5	86.9	128.7	154.5	154.5
67.5°	4502.7	4351.5	2813.0	1235.9	151.3	70.8	61.2	67.6	99.8	125.5	119.1
70°	2069.5	1857.1	1081.4	260.7	70.8	48.3	48.3	54.7	80.5	93.3	86.9
72.5°	605.1	572.9	263.9	41.8	29.0	29.0	32.2	41.8	61.2	70.8	64.4
75°	45.1	29.0	19.3	12.9	12.9	19.3	25.7	41.8	61.2	67.6	54.7
77.5°	3.2	6.4	3.2	3.2	9.7	19.3	29.0	51.5	80.5	83.7	61.2
80°	3.2	3.2	0.0	3.2	9.7	19.3	32.2	57.9	90.1	96.6	51.5
82.5°	0.0	0.0	0.0	3.2	12.9	25.7	38.6	61.2	83.7	103.0	54.7
85°	0.0	0.0	0.0	3.2	19.3	35.4	45.1	16.1	9.7	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°	8226.6	8226.6	8226.6	8226.6	8226.6	8226.6	8226.6	8226.6	8226.6	8226.6	8226.6
2.5°	6919.9	6836.2	6804.0	6833.0	6823.3	6813.7	6990.7	6952.1	6945.6	7003.6	6990.7
5°	5194.7	5046.7	5452.2	5288.1	5458.7	5561.6	5581.0	5590.6	5709.7	5584.2	5748.3
7.5°	3701.3	3739.9	3736.7	3846.2	4042.5	4216.3	4319.3	4238.8	4232.4	4216.3	4145.5
10°	2957.8	2890.3	2877.4	2851.6	2912.8	3060.8	3186.4	3086.6	3015.8	3112.3	3083.4
12.5°	2417.1	2323.8	2272.3	2169.3	2172.5	2272.3	2272.3	2272.3	2343.1	2397.8	2439.7
15°	1853.9	1776.6	1776.6	1673.6	1651.1	1654.3	1705.8	1712.3	1824.9	1857.1	1873.2
17.5°	1297.1	1255.2	1303.5	1345.4	1319.6	1326.0	1345.4	1351.8	1367.9	1355.0	1387.2
20°	997.7	991.3	1004.2	1078.2	1132.9	1165.1	1142.6	1110.4	1091.1	1046.0	1046.0
22.5°	846.5	859.4	881.9	943.0	1013.8	1033.2	1007.4	933.4	875.4	869.0	872.2
25°	753.1	766.0	801.4	840.0	878.7	910.8	885.1	830.4	798.2	769.2	769.2
27.5°	695.2	701.6	721.0	749.9	782.1	807.9	798.2	769.2	733.8	721.0	692.0
30°	650.1	659.8	682.3	688.8	717.7	730.6	714.5	708.1	685.5	669.5	659.8
32.5°	627.6	624.4	640.5	646.9	650.1	659.8	640.5	650.1	646.9	621.2	611.5
35°	473.1	498.9	540.7	576.1	585.8	598.6	595.4	582.6	547.2	518.2	482.8
37.5°	424.8	440.9	463.5	492.4	531.1	547.2	540.7	508.5	466.7	447.4	440.9
40°	392.7	402.3	421.6	440.9	479.6	508.5	486.0	457.0	424.8	408.8	399.1
42.5°	363.7	366.9	376.6	395.9	424.8	469.9	431.3	392.7	379.8	370.1	363.7
45°	331.5	331.5	344.4	354.0	386.2	428.1	389.4	354.0	347.6	341.2	337.9
47.5°	305.8	309.0	315.4	328.3	354.0	383.0	357.3	328.3	312.2	309.0	302.5
50°	273.6	276.8	289.7	302.5	334.7	350.8	334.7	302.5	286.5	276.8	276.8
52°	247.8	257.5	270.4	296.1	318.6	344.4	325.1	289.7	270.4	260.7	254.3
52.5°	244.6	251.0	263.9	292.9	318.6	341.2	321.9	286.5	263.9	257.5	251.0
55°	218.9	228.5	251.0	286.5	315.4	341.2	315.4	283.2	251.0	235.0	228.5
57.5°	209.2	215.6	244.6	289.7	312.2	341.2	315.4	283.2	251.0	222.1	215.6
60°	199.5	212.4	244.6	280.0	309.0	344.4	318.6	280.0	244.6	209.2	209.2
62.5°	189.9	199.5	241.4	273.6	296.1	331.5	305.8	273.6	235.0	199.5	196.3
65°	164.1	180.2	212.4	228.5	254.3	286.5	260.7	238.2	206.0	177.0	173.8
67.5°	125.5	132.0	157.7	177.0	193.1	222.1	209.2	180.2	157.7	135.2	135.2
70°	86.9	93.3	112.6	122.3	138.4	154.5	144.8	122.3	106.2	93.3	90.1
72.5°	61.2	64.4	70.8	77.2	83.7	90.1	86.9	70.8	61.2	57.9	54.7
75°	48.3	54.7	57.9	54.7	51.5	48.3	48.3	41.8	35.4	32.2	32.2
77.5°	48.3	51.5	48.3	41.8	35.4	32.2	29.0	25.7	19.3	16.1	19.3
80°	41.8	41.8	41.8	35.4	32.2	29.0	25.7	22.5	19.3	16.1	16.1
82.5°	45.1	45.1	41.8	35.4	35.4	29.0	29.0	25.7	22.5	16.1	16.1
85°	0.0	0.0	0.0	6.4	16.1	29.0	29.0	25.7	22.5	19.3	19.3
87.5°	0.0	0.0	0.0	0.0	3.2	6.4	12.9	16.1	19.3	19.3	19.3
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°	8226.6	8226.6	8226.6	8226.6	8226.6	8226.6	8226.6	8226.6	8226.6	8226.6	8226.6
2.5°	7106.5	7228.9	7460.6	7692.3	7833.9	8001.3	8303.8	8464.8	8674.0	8777.0	8979.7
5°	5725.8	6015.5	6118.5	6382.4	6665.6	6948.8	7399.4	7895.1	8307.1	8590.3	8957.2
7.5°	4177.7	4245.3	4644.4	4821.4	5284.8	5799.8	6414.6	7039.0	7560.4	8023.8	8303.8
10°	3131.6	3379.5	3630.5	3968.5	4341.8	4872.9	5461.9	6150.6	6826.5	7290.0	7644.0
12.5°	2516.9	2713.2	3048.0	3411.7	3871.9	4222.7	4814.9	5497.3	6372.7	6826.5	7293.2
15°	1905.4	2156.4	2536.2	2912.8	3398.8	3768.9	4367.6	5226.9	6353.4	6977.8	7380.1
17.5°	1412.9	1583.5	1924.7	2346.3	2842.0	3363.4	4171.2	5197.9	6569.0	7312.5	7727.7
20°	1081.4	1139.4	1355.0	1731.6	2269.1	2951.4	3852.6	5323.5	7206.3	8126.8	8548.5
22.5°	875.4	901.2	984.9	1245.6	1767.0	2590.9	3701.3	5410.4	7924.1	9102.0	9665.3
25°	762.8	756.4	811.1	923.7	1380.8	2253.0	3508.2	5738.7	8802.7	10247.8	10753.2
27.5°	695.2	695.2	721.0	801.4	1145.8	2034.1	3385.9	5973.6	9687.8	11255.2	11528.8
30°	659.8	666.2	740.3	766.0	952.7	1773.4	3183.1	6211.8	10534.3	11899.0	12275.5
32.5°	611.5	585.8	569.7	634.1	801.4	1538.5	2980.4	6311.6	11219.8	12687.5	13009.4
35°	469.9	457.0	476.3	524.6	688.8	1338.9	2755.1	6424.2	12008.4	13601.6	13665.9
37.5°	424.8	421.6	434.5	476.3	579.3	1165.1	2594.1	6395.2	12610.3	14357.9	14184.1
40°	392.7	392.7	402.3	437.7	518.2	1042.8	2426.8	6369.5	13192.8	15207.6	14699.1
42.5°	366.9	366.9	383.0	405.5	492.4	962.3	2301.3	6334.1	13682.0	15729.0	15001.6
45°	331.5	341.2	366.9	389.4	498.9	907.6	2207.9	6198.9	13849.4	15722.6	14856.8
47.5°	305.8	318.6	344.4	376.6	450.6	891.5	2143.6	6079.8	13791.5	15336.4	14403.0
50°	276.8	292.9	328.3	383.0	383.0	859.4	2076.0	6186.0	13749.6	15037.0	13968.5
52°	257.5	270.4	315.4	373.4	334.7	791.8	2034.1	6392.0	13920.2	14998.4	13775.4
52.5°	254.3	263.9	305.8	366.9	318.6	778.9	2005.2	6440.3	13974.9	14901.9	13907.3
55°	225.3	238.2	280.0	286.5	260.7	640.5	1911.8	6549.7	13704.6	14712.0	13781.8
57.5°	212.4	218.9	247.8	235.0	225.3	482.8	1644.7	6379.2	12172.5	13067.3	12822.7
60°	196.3	202.8	231.7	183.5	189.9	337.9	1235.9	5539.1	9774.7	10888.3	11329.3
62.5°	189.9	186.7	218.9	148.1	160.9	244.6	872.2	4502.7	7531.4	8963.6	9726.4
65°	167.4	164.1	157.7	125.5	138.4	189.9	521.4	2938.5	5307.4	6781.5	7199.9
67.5°	128.7	135.2	115.9	99.8	115.9	148.1	289.7	1316.4	2784.0	4068.2	4406.2
70°	90.1	96.6	93.3	86.9	103.0	122.3	167.4	450.6	1152.2	2137.1	2356.0
72.5°	54.7	67.6	70.8	74.0	90.1	106.2	119.1	144.8	305.8	756.4	939.8
75°	32.2	45.1	54.7	64.4	74.0	90.1	99.8	103.0	106.2	141.6	228.5
77.5°	22.5	32.2	48.3	61.2	74.0	90.1	106.2	112.6	106.2	99.8	106.2
80°	19.3	32.2	45.1	57.9	77.2	93.3	106.2	106.2	103.0	90.1	96.6
82.5°	19.3	32.2	48.3	61.2	74.0	90.1	103.0	106.2	96.6	90.1	93.3
85°	22.5	35.4	51.5	64.4	80.5	74.0	67.6	54.7	51.5	41.8	45.1
87.5°	22.5	32.2	32.2	35.4	38.6	38.6	38.6	35.4	29.0	25.7	25.7
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-SA8A-830-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8226.6	8226.6	8226.6	8226.6	8226.6	8226.6	8226.6	8226.6	8226.6	8226.6
2.5°	8989.4	9246.9	9237.2	9243.7	9205.0	8944.3	8818.8	8500.2	8590.3	8551.7
5°	9333.8	9588.0	9806.9	9781.2	9485.0	9131.0	8606.4	8110.7	7975.6	7776.0
7.5°	8989.4	9600.9	9803.7	9774.7	9337.0	8883.2	8046.4	7550.7	7315.8	7183.8
10°	8442.2	9150.3	9401.4	9452.9	9156.8	8468.0	7698.8	6903.8	6778.3	6549.7
12.5°	8130.0	8645.0	8799.5	8937.9	8834.9	8319.9	7434.8	6672.0	6498.2	6347.0
15°	7875.8	8181.5	8245.9	8403.6	8464.8	8188.0	7573.2	6923.1	6495.0	6478.9
17.5°	8110.7	7985.2	7750.3	7798.5	7991.6	8191.2	7930.5	7418.7	7003.6	6952.1
20°	8500.2	7946.6	7415.5	7534.6	7695.5	8307.1	8471.2	8110.7	7872.6	7740.6
22.5°	8947.6	8014.2	7309.3	7367.2	7673.0	8567.8	9346.7	9147.1	8702.9	8513.0
25°	9774.7	8200.9	7393.0	7431.6	7850.0	8931.5	10138.4	10286.5	10022.5	9983.9
27.5°	10582.6	8683.6	7576.5	7489.6	7940.1	9285.5	10618.0	11413.0	10949.5	10859.4
30°	10994.5	9076.3	7850.0	7702.0	8313.5	9501.1	10907.6	12146.8	11741.2	11699.4
32.5°	11625.4	9433.6	8062.5	7872.6	8522.7	9768.3	11448.4	12948.2	12555.5	12346.3
35°	11889.3	9823.0	8529.1	8307.1	9121.4	10141.6	11725.2	13662.7	13540.4	13337.6
37.5°	12397.8	10241.4	9079.5	9066.6	9845.5	10627.6	12224.0	14634.7	14612.2	14261.4
40°	12439.7	10698.4	9948.5	10354.1	10965.6	11474.1	12661.8	14905.1	15272.0	15033.8
42.5°	12504.0	11499.9	11451.6	11786.3	12310.9	12201.5	12677.8	14969.4	15529.5	15387.9
45°	12533.0	12301.3	12980.4	13598.3	13817.2	13154.2	12526.6	14847.1	15664.7	15310.6
47.5°	12301.3	12990.0	14216.3	15410.4	15474.8	13740.0	12462.2	14721.6	15745.1	15510.2
50°	12333.5	13421.3	15284.9	16353.4	16118.5	14258.2	12362.4	14644.4	15703.3	15545.6
52°	12256.2	13431.0	15436.1	16334.1	16170.0	13971.7	12191.8	14348.3	15664.7	15777.3
52.5°	12343.1	13373.1	15278.4	16347.0	16134.6	14113.3	12169.3	14512.4	15687.2	15458.7
55°	12043.8	12684.3	14354.7	14808.5	14776.3	12809.8	11477.3	13968.5	15098.2	15101.4
57.5°	10885.1	10994.5	11258.5	11248.8	11100.8	10070.8	9816.6	12845.2	13460.0	13125.2
60°	9591.3	8049.6	7338.3	7048.6	6884.5	6717.1	8683.6	11750.9	11808.8	11667.2
62.5°	8287.8	5581.0	4634.7	4554.2	4592.9	5204.4	8394.0	11316.4	10968.8	10663.0
65°	6688.1	4068.2	3366.6	3260.4	3637.0	4296.8	6794.3	8677.2	8142.9	7888.7
67.5°	4200.2	2967.5	2275.5	2076.0	2529.8	2957.8	4464.1	5452.2	4853.6	4502.7
70°	2491.2	1657.6	1029.9	923.7	1039.6	1577.1	2500.8	2719.7	2249.8	2069.5
72.5°	981.7	608.3	286.5	244.6	254.3	553.6	920.5	898.0	679.1	605.1
75°	263.9	183.5	99.8	80.5	67.6	103.0	148.1	96.6	35.4	45.1
77.5°	122.3	109.4	86.9	67.6	51.5	38.6	19.3	6.4	6.4	3.2
80°	106.2	93.3	80.5	67.6	51.5	32.2	16.1	3.2	3.2	3.2
82.5°	99.8	86.9	74.0	61.2	48.3	32.2	16.1	3.2	0.0	0.0
85°	41.8	54.7	61.2	57.9	51.5	32.2	16.1	3.2	0.0	0.0
87.5°	22.5	19.3	16.1	12.9	9.7	6.4	6.4	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)