

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: P529043

Luminaire Tested: **GALN-SA4A-830-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529043
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-SA4A-830-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 7948 lumens
Efficiency: N/A
Efficacy: 65.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 121
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



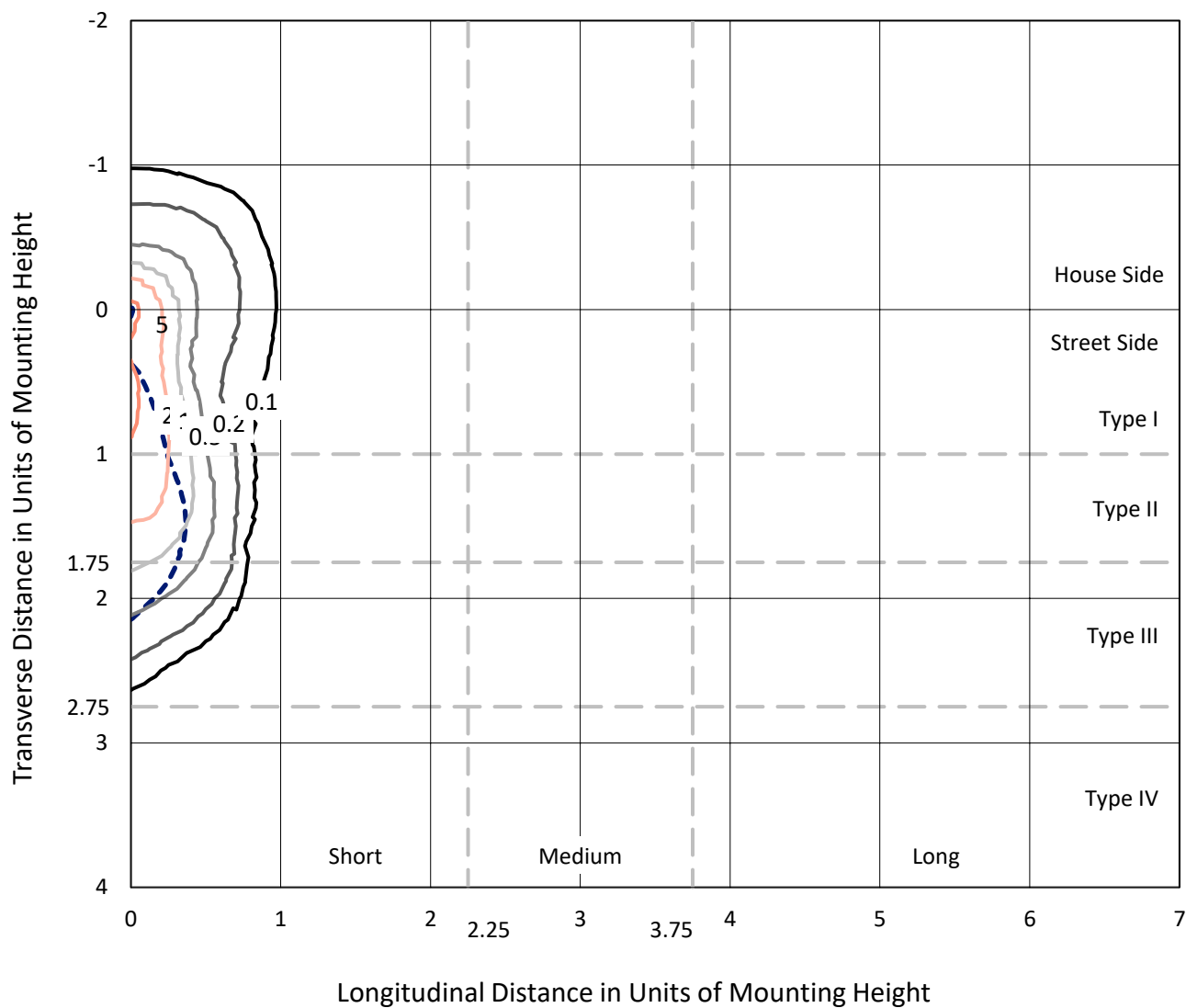
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



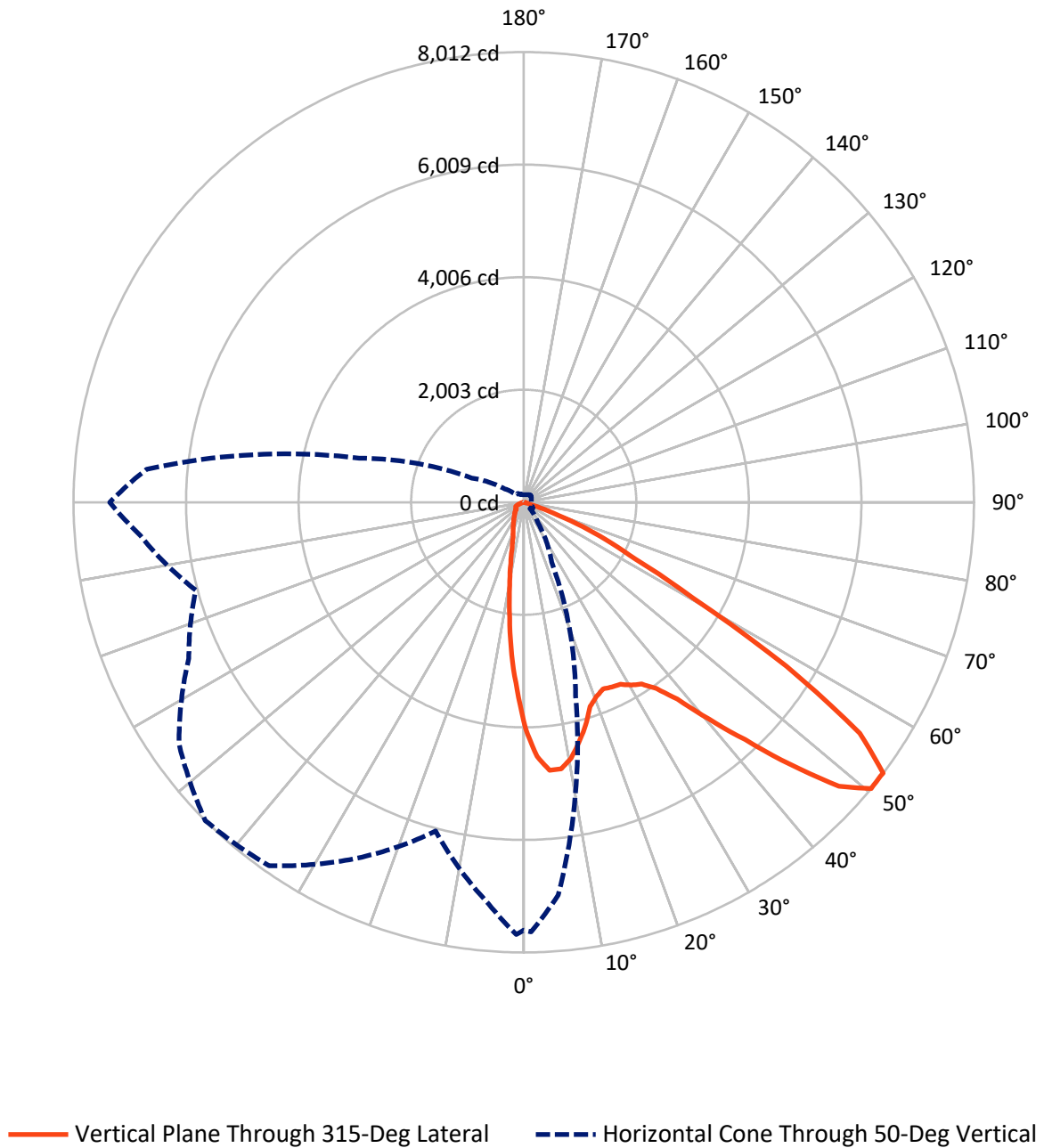
Based on 25 foot mounting height. Maximum calculated value = 6.4 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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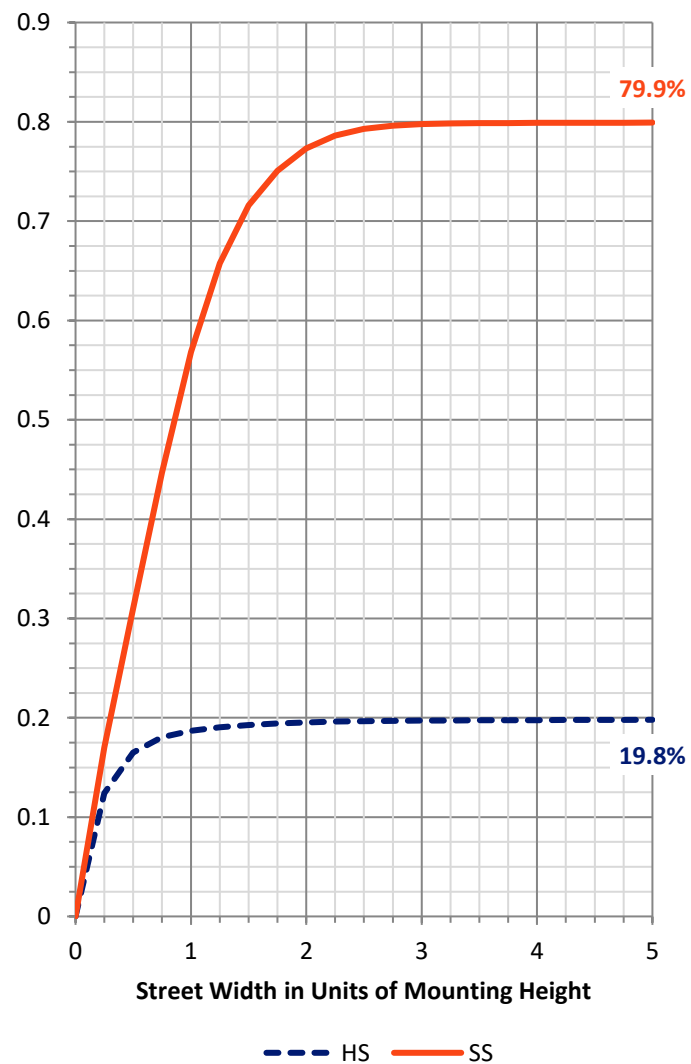
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1592.0	0.0	1592.0
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	6356.0	0.0	6356.0
	% Fixture	80.0	0.0	80.0
Total	Lumens	7948.0	0.0	7948.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.8	3.7
10°-20°	583.9	7.3
20°-30°	877.2	11.0
30°-40°	1316.6	16.6
40°-50°	1850.4	23.3
50°-60°	1996.0	25.1
60°-70°	926.7	11.7
70°-80°	87.2	1.1
80°-90°	16.1	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°	7948.0	100.0
0°-180°	7948.0	100.0

Coefficient of Utilization



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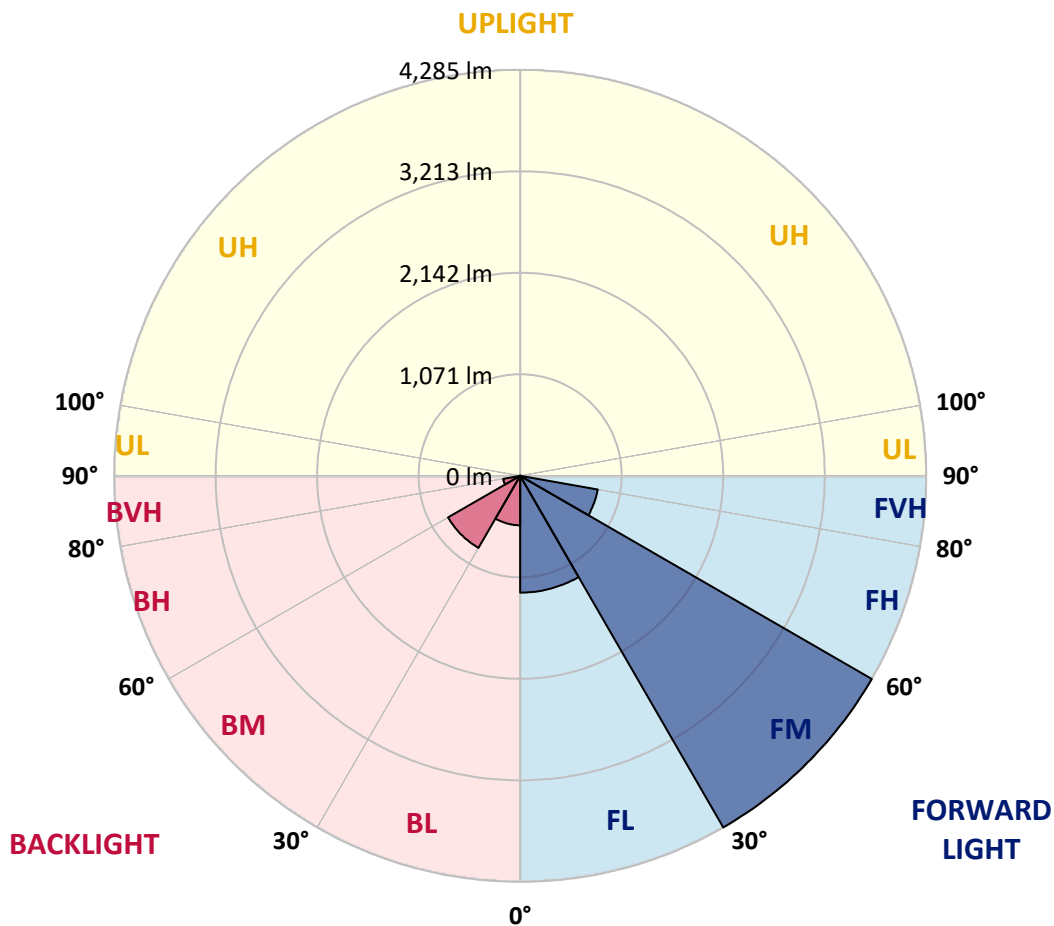
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1233.1	15.5			
FM	(30°-60°)	4284.6	53.9			
FH	(60°-80°)	831.1	10.5			G1/1800
FVH	(80°-90°)	7.2	0.1			G0/10
BL	(0°-30°)	521.8	6.6	B2/1000		
BM	(30°-60°)	878.5	11.1	B1/1000		
BH	(60°-80°)	182.8	2.3	B1/500		G1/500
BVH	(80°-90°)	8.8	0.1			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°	4030.6	4030.6	4030.6	4030.6	4030.6	4030.6	4030.6	4030.6	4030.6	4030.6	4030.6
2.5°	4189.9	4125.3	4043.3	3975.4	3874.5	3671.1	3615.9	3549.7	3494.5	3420.4	3316.3
5°	3809.9	3789.4	3751.5	3496.1	3311.6	3065.6	2863.7	2778.6	2666.6	2575.1	2508.9
7.5°	3519.7	3437.7	3317.9	3060.8	2765.9	2502.6	2278.7	2147.8	1999.5	1949.1	1859.2
10°	3209.1	3228.0	3051.4	2690.2	2333.9	2121.0	1982.2	1856.0	1722.0	1633.7	1506.0
12.5°	3109.7	3048.2	2912.6	2466.3	2162.0	1963.3	1794.5	1638.4	1496.5	1354.6	1231.6
15°	3174.4	3079.7	2890.5	2419.0	2029.5	1781.9	1570.6	1359.3	1228.4	1047.1	919.4
17.5°	3406.2	3330.5	3076.6	2469.5	1961.7	1608.5	1294.7	1077.0	876.8	712.8	648.1
20°	3792.5	3685.3	3366.7	2534.1	1860.8	1398.7	1050.2	782.2	592.9	523.5	487.3
22.5°	4171.0	4112.6	3710.5	2658.7	1770.9	1212.7	788.5	526.7	443.1	430.5	406.8
25°	4891.6	4716.6	4235.6	2884.2	1701.5	1037.6	594.5	424.2	375.3	365.8	369.0
27.5°	5320.6	5173.9	4721.3	3034.0	1624.2	903.6	503.0	389.5	356.4	335.9	328.0
30°	5732.1	5561.8	4962.6	3122.3	1458.7	761.7	446.3	373.7	365.8	335.9	326.4
32.5°	6049.1	5882.0	5311.1	3254.8	1390.9	670.2	367.4	291.7	271.2	268.1	296.5
35°	6534.8	6356.6	5609.1	3327.3	1338.8	622.9	318.5	260.2	236.5	227.1	228.7
37.5°	6987.4	6866.0	5885.1	3355.7	1283.6	608.7	285.4	233.4	212.9	206.6	205.0
40°	7365.8	7094.6	6146.9	3385.7	1260.0	581.9	264.9	212.9	198.7	189.2	189.2
42.5°	7539.3	7263.3	6440.2	3368.3	1253.7	539.3	264.9	195.5	184.5	175.0	173.5
45°	7501.5	7389.5	6571.1	3360.4	1253.7	496.7	241.3	190.8	175.0	162.4	159.3
47.5°	7599.2	7452.6	6735.1	3393.6	1228.4	466.8	203.4	200.3	165.6	149.8	146.7
50°	7616.6	7645.0	7020.5	3565.4	1173.2	428.9	159.3	197.1	159.3	135.6	132.5
52°	7730.1	7553.5	7107.2	3656.9	1114.9	400.5	134.0	168.7	153.0	126.2	123.0
52.5°	7574.0	7689.1	7127.7	3690.0	1121.2	381.6	129.3	165.6	149.8	126.2	118.3
55°	7399.0	7509.3	7044.2	3761.0	1028.2	299.6	100.9	119.8	135.6	110.4	105.7
57.5°	6430.7	6542.7	6121.6	3444.0	837.4	211.3	83.6	89.9	119.8	102.5	97.8
60°	5716.4	5636.0	5137.6	2873.2	594.5	118.3	66.2	69.4	130.9	94.6	93.0
62.5°	5224.4	5052.5	4294.0	2218.7	362.7	78.8	52.0	53.6	100.9	88.3	88.3
65°	3865.1	3672.7	2852.7	1342.0	178.2	55.2	39.4	42.6	63.1	75.7	75.7
67.5°	2206.1	2132.0	1378.2	605.5	74.1	34.7	30.0	33.1	48.9	61.5	58.3
70°	1014.0	909.9	529.8	127.7	34.7	23.7	23.7	26.8	39.4	45.7	42.6
72.5°	296.5	280.7	129.3	20.5	14.2	14.2	15.8	20.5	30.0	34.7	31.5
75°	22.1	14.2	9.5	6.3	6.3	9.5	12.6	20.5	30.0	33.1	26.8
77.5°	1.6	3.2	1.6	1.6	4.7	9.5	14.2	25.2	39.4	41.0	30.0
80°	1.6	1.6	0.0	1.6	4.7	9.5	15.8	28.4	44.2	47.3	25.2
82.5°	0.0	0.0	0.0	1.6	6.3	12.6	18.9	30.0	41.0	50.5	26.8
85°	0.0	0.0	0.0	1.6	9.5	17.3	22.1	7.9	4.7	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°	4030.6	4030.6	4030.6	4030.6	4030.6	4030.6	4030.6	4030.6	4030.6	4030.6	4030.6
2.5°	3390.4	3349.4	3333.6	3347.8	3343.1	3338.4	3425.1	3406.2	3403.0	3431.4	3425.1
5°	2545.2	2472.6	2671.3	2590.9	2674.5	2724.9	2734.4	2739.1	2797.5	2736.0	2816.4
7.5°	1813.5	1832.4	1830.8	1884.4	1980.6	2065.8	2116.2	2076.8	2073.7	2065.8	2031.1
10°	1449.2	1416.1	1409.8	1397.2	1427.1	1499.7	1561.2	1512.3	1477.6	1524.9	1510.7
12.5°	1184.3	1138.5	1113.3	1062.9	1064.4	1113.3	1113.3	1113.3	1148.0	1174.8	1195.3
15°	908.3	870.5	870.5	820.0	809.0	810.5	835.8	838.9	894.1	909.9	917.8
17.5°	635.5	615.0	638.7	659.2	646.5	649.7	659.2	662.3	670.2	663.9	679.7
20°	488.8	485.7	492.0	528.3	555.1	570.8	559.8	544.0	534.6	512.5	512.5
22.5°	414.7	421.0	432.1	462.0	496.7	506.2	493.6	457.3	428.9	425.8	427.3
25°	369.0	375.3	392.7	411.6	430.5	446.3	433.7	406.8	391.1	376.9	376.9
27.5°	340.6	343.8	353.2	367.4	383.2	395.8	391.1	376.9	359.5	353.2	339.0
30°	318.5	323.3	334.3	337.5	351.7	358.0	350.1	346.9	335.9	328.0	323.3
32.5°	307.5	305.9	313.8	317.0	318.5	323.3	313.8	318.5	317.0	304.3	299.6
35°	231.8	244.4	264.9	282.3	287.0	293.3	291.7	285.4	268.1	253.9	236.5
37.5°	208.2	216.0	227.1	241.3	260.2	268.1	264.9	249.2	228.7	219.2	216.0
40°	192.4	197.1	206.6	216.0	235.0	249.2	238.1	223.9	208.2	200.3	195.5
42.5°	178.2	179.8	184.5	194.0	208.2	230.2	211.3	192.4	186.1	181.3	178.2
45°	162.4	162.4	168.7	173.5	189.2	209.7	190.8	173.5	170.3	167.2	165.6
47.5°	149.8	151.4	154.5	160.8	173.5	187.7	175.0	160.8	153.0	151.4	148.2
50°	134.0	135.6	141.9	148.2	164.0	171.9	164.0	148.2	140.3	135.6	135.6
52°	121.4	126.2	132.5	145.1	156.1	168.7	159.3	141.9	132.5	127.7	124.6
52.5°	119.8	123.0	129.3	143.5	156.1	167.2	157.7	140.3	129.3	126.2	123.0
55°	107.2	112.0	123.0	140.3	154.5	167.2	154.5	138.8	123.0	115.1	112.0
57.5°	102.5	105.7	119.8	141.9	153.0	167.2	154.5	138.8	123.0	108.8	105.7
60°	97.8	104.1	119.8	137.2	151.4	168.7	156.1	137.2	119.8	102.5	102.5
62.5°	93.0	97.8	118.3	134.0	145.1	162.4	149.8	134.0	115.1	97.8	96.2
65°	80.4	88.3	104.1	112.0	124.6	140.3	127.7	116.7	100.9	86.7	85.2
67.5°	61.5	64.7	77.3	86.7	94.6	108.8	102.5	88.3	77.3	66.2	66.2
70°	42.6	45.7	55.2	59.9	67.8	75.7	71.0	59.9	52.0	45.7	44.2
72.5°	30.0	31.5	34.7	37.8	41.0	44.2	42.6	34.7	30.0	28.4	26.8
75°	23.7	26.8	28.4	26.8	25.2	23.7	23.7	20.5	17.3	15.8	15.8
77.5°	23.7	25.2	23.7	20.5	17.3	15.8	14.2	12.6	9.5	7.9	9.5
80°	20.5	20.5	20.5	17.3	15.8	14.2	12.6	11.0	9.5	7.9	7.9
82.5°	22.1	22.1	20.5	17.3	17.3	14.2	14.2	12.6	11.0	7.9	7.9
85°	0.0	0.0	0.0	3.2	7.9	14.2	14.2	12.6	11.0	9.5	9.5
87.5°	0.0	0.0	0.0	0.0	1.6	3.2	6.3	7.9	9.5	9.5	9.5
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°	4030.6	4030.6	4030.6	4030.6	4030.6	4030.6	4030.6	4030.6	4030.6	4030.6	4030.6
2.5°	3481.9	3541.8	3655.3	3768.9	3838.3	3920.3	4068.5	4147.3	4249.8	4300.3	4399.6
5°	2805.4	2947.3	2997.7	3127.1	3265.8	3404.6	3625.4	3868.2	4070.1	4208.8	4388.6
7.5°	2046.9	2080.0	2275.5	2362.2	2589.3	2841.6	3142.8	3448.8	3704.2	3931.3	4068.5
10°	1534.4	1655.8	1778.8	1944.4	2127.3	2387.5	2676.1	3013.5	3344.7	3571.8	3745.2
12.5°	1233.2	1329.4	1493.4	1671.5	1897.0	2068.9	2359.1	2693.4	3122.3	3344.7	3573.3
15°	933.5	1056.5	1242.6	1427.1	1665.2	1846.6	2139.9	2560.9	3112.9	3418.8	3615.9
17.5°	692.3	775.9	943.0	1149.6	1392.4	1647.9	2043.7	2546.7	3218.5	3582.8	3786.2
20°	529.8	558.2	663.9	848.4	1111.7	1446.0	1887.6	2608.2	3530.8	3981.8	4188.3
22.5°	428.9	441.5	482.5	610.3	865.7	1269.4	1813.5	2650.8	3882.4	4459.6	4735.5
25°	373.7	370.6	397.4	452.6	676.5	1103.9	1718.9	2811.7	4312.9	5021.0	5268.5
27.5°	340.6	340.6	353.2	392.7	561.4	996.6	1658.9	2926.8	4746.6	5514.5	5648.6
30°	323.3	326.4	362.7	375.3	466.8	868.9	1559.6	3043.5	5161.3	5829.9	6014.4
32.5°	299.6	287.0	279.1	310.7	392.7	753.8	1460.2	3092.4	5497.2	6216.3	6374.0
35°	230.2	223.9	233.4	257.0	337.5	656.0	1349.9	3147.6	5883.5	6664.1	6695.7
37.5°	208.2	206.6	212.9	233.4	283.8	570.8	1271.0	3133.4	6178.4	7034.7	6949.5
40°	192.4	192.4	197.1	214.5	253.9	510.9	1189.0	3120.7	6463.8	7451.0	7201.8
42.5°	179.8	179.8	187.7	198.7	241.3	471.5	1127.5	3103.4	6703.5	7706.5	7350.1
45°	162.4	167.2	179.8	190.8	244.4	444.7	1081.8	3037.2	6785.5	7703.3	7279.1
47.5°	149.8	156.1	168.7	184.5	220.8	436.8	1050.2	2978.8	6757.2	7514.1	7056.8
50°	135.6	143.5	160.8	187.7	187.7	421.0	1017.1	3030.9	6736.7	7367.4	6843.9
52°	126.2	132.5	154.5	182.9	164.0	387.9	996.6	3131.8	6820.2	7348.5	6749.3
52.5°	124.6	129.3	149.8	179.8	156.1	381.6	982.4	3155.4	6847.0	7301.2	6813.9
55°	110.4	116.7	137.2	140.3	127.7	313.8	936.7	3209.1	6714.6	7208.2	6752.4
57.5°	104.1	107.2	121.4	115.1	110.4	236.5	805.8	3125.5	5964.0	6402.3	6282.5
60°	96.2	99.3	113.5	89.9	93.0	165.6	605.5	2713.9	4789.1	5334.8	5550.8
62.5°	93.0	91.5	107.2	72.5	78.8	119.8	427.3	2206.1	3690.0	4391.8	4765.5
65°	82.0	80.4	77.3	61.5	67.8	93.0	255.5	1439.7	2600.4	3322.6	3527.6
67.5°	63.1	66.2	56.8	48.9	56.8	72.5	141.9	645.0	1364.0	1993.2	2158.8
70°	44.2	47.3	45.7	42.6	50.5	59.9	82.0	220.8	564.5	1047.1	1154.3
72.5°	26.8	33.1	34.7	36.3	44.2	52.0	58.3	71.0	149.8	370.6	460.5
75°	15.8	22.1	26.8	31.5	36.3	44.2	48.9	50.5	52.0	69.4	112.0
77.5°	11.0	15.8	23.7	30.0	36.3	44.2	52.0	55.2	52.0	48.9	52.0
80°	9.5	15.8	22.1	28.4	37.8	45.7	52.0	52.0	50.5	44.2	47.3
82.5°	9.5	15.8	23.7	30.0	36.3	44.2	50.5	52.0	47.3	44.2	45.7
85°	11.0	17.3	25.2	31.5	39.4	36.3	33.1	26.8	25.2	20.5	22.1
87.5°	11.0	15.8	15.8	17.3	18.9	18.9	18.9	17.3	14.2	12.6	12.6
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-SA4A-830-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4030.6	4030.6	4030.6	4030.6	4030.6	4030.6	4030.6	4030.6	4030.6	4030.6
2.5°	4404.4	4530.5	4525.8	4528.9	4510.0	4382.3	4320.8	4164.7	4208.8	4189.9
5°	4573.1	4697.7	4804.9	4792.3	4647.2	4473.8	4216.7	3973.9	3907.6	3809.9
7.5°	4404.4	4704.0	4803.3	4789.1	4574.7	4352.3	3942.3	3699.5	3584.4	3519.7
10°	4136.3	4483.2	4606.2	4631.4	4486.4	4148.9	3772.0	3382.5	3321.0	3209.1
12.5°	3983.3	4235.6	4311.3	4379.1	4328.7	4076.4	3642.7	3269.0	3183.8	3109.7
15°	3858.8	4008.6	4040.1	4117.4	4147.3	4011.7	3710.5	3392.0	3182.2	3174.4
17.5°	3973.9	3912.4	3797.3	3820.9	3915.5	4013.3	3885.6	3634.8	3431.4	3406.2
20°	4164.7	3893.4	3633.3	3691.6	3770.4	4070.1	4150.5	3973.9	3857.2	3792.5
22.5°	4383.9	3926.6	3581.2	3609.6	3759.4	4197.8	4579.4	4481.6	4264.0	4171.0
25°	4789.1	4018.0	3622.2	3641.1	3846.1	4376.0	4967.3	5039.9	4910.6	4891.6
27.5°	5185.0	4254.6	3712.1	3669.5	3890.3	4549.4	5202.3	5591.8	5364.7	5320.6
30°	5386.8	4446.9	3846.1	3773.6	4073.2	4655.1	5344.2	5951.3	5752.6	5732.1
32.5°	5695.9	4622.0	3950.2	3857.2	4175.7	4786.0	5609.1	6344.0	6151.6	6049.1
35°	5825.2	4812.8	4178.9	4070.1	4469.0	4968.9	5744.8	6694.1	6634.2	6534.8
37.5°	6074.3	5017.8	4448.5	4442.2	4823.8	5207.0	5989.2	7170.3	7159.3	6987.4
40°	6094.8	5241.7	4874.3	5073.0	5372.6	5621.8	6203.6	7302.8	7482.5	7365.8
42.5°	6126.4	5634.4	5610.7	5774.7	6031.8	5978.1	6211.5	7334.3	7608.7	7539.3
45°	6140.6	6027.0	6359.8	6662.5	6769.8	6444.9	6137.4	7274.4	7674.9	7501.5
47.5°	6027.0	6364.5	6965.3	7550.3	7581.9	6731.9	6105.9	7212.9	7714.4	7599.2
50°	6042.8	6575.8	7488.8	8012.4	7897.3	6985.8	6057.0	7175.0	7693.9	7616.6
52°	6005.0	6580.5	7563.0	8002.9	7922.5	6845.5	5973.4	7030.0	7674.9	7730.1
52.5°	6047.5	6552.2	7485.7	8009.2	7905.2	6914.8	5962.4	7110.4	7686.0	7574.0
55°	5900.9	6214.7	7033.1	7255.5	7239.7	6276.2	5623.3	6843.9	7397.4	7399.0
57.5°	5333.2	5386.8	5516.1	5511.4	5438.8	4934.2	4809.6	6293.5	6594.7	6430.7
60°	4699.3	3943.9	3595.4	3453.5	3373.1	3291.1	4254.6	5757.4	5785.8	5716.4
62.5°	4060.6	2734.4	2270.8	2231.4	2250.3	2549.9	4112.6	5544.5	5374.2	5224.4
65°	3276.9	1993.2	1649.5	1597.4	1781.9	2105.2	3328.9	4251.4	3989.6	3865.1
67.5°	2057.9	1453.9	1114.9	1017.1	1239.5	1449.2	2187.2	2671.3	2378.0	2206.1
70°	1220.5	812.1	504.6	452.6	509.3	772.7	1225.3	1332.5	1102.3	1014.0
72.5°	481.0	298.0	140.3	119.8	124.6	271.2	451.0	440.0	332.7	296.5
75°	129.3	89.9	48.9	39.4	33.1	50.5	72.5	47.3	17.3	22.1
77.5°	59.9	53.6	42.6	33.1	25.2	18.9	9.5	3.2	3.2	1.6
80°	52.0	45.7	39.4	33.1	25.2	15.8	7.9	1.6	1.6	1.6
82.5°	48.9	42.6	36.3	30.0	23.7	15.8	7.9	1.6	0.0	0.0
85°	20.5	26.8	30.0	28.4	25.2	15.8	7.9	1.6	0.0	0.0
87.5°	11.0	9.5	7.9	6.3	4.7	3.2	3.2	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)