

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: P528885

Luminaire Tested: **GALN-SA4A-730-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528885
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-SA4A-730-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 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: 9108 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

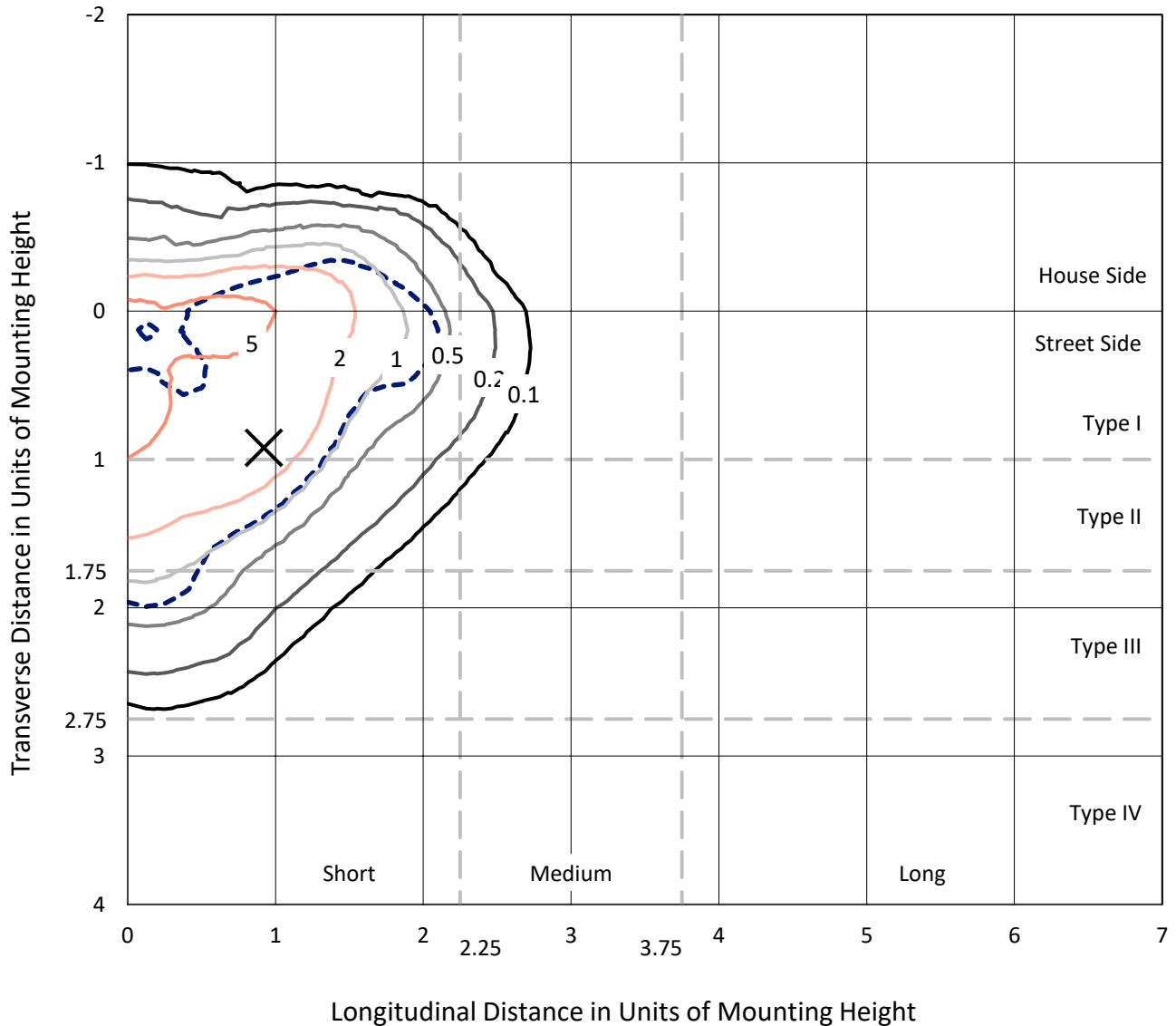
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

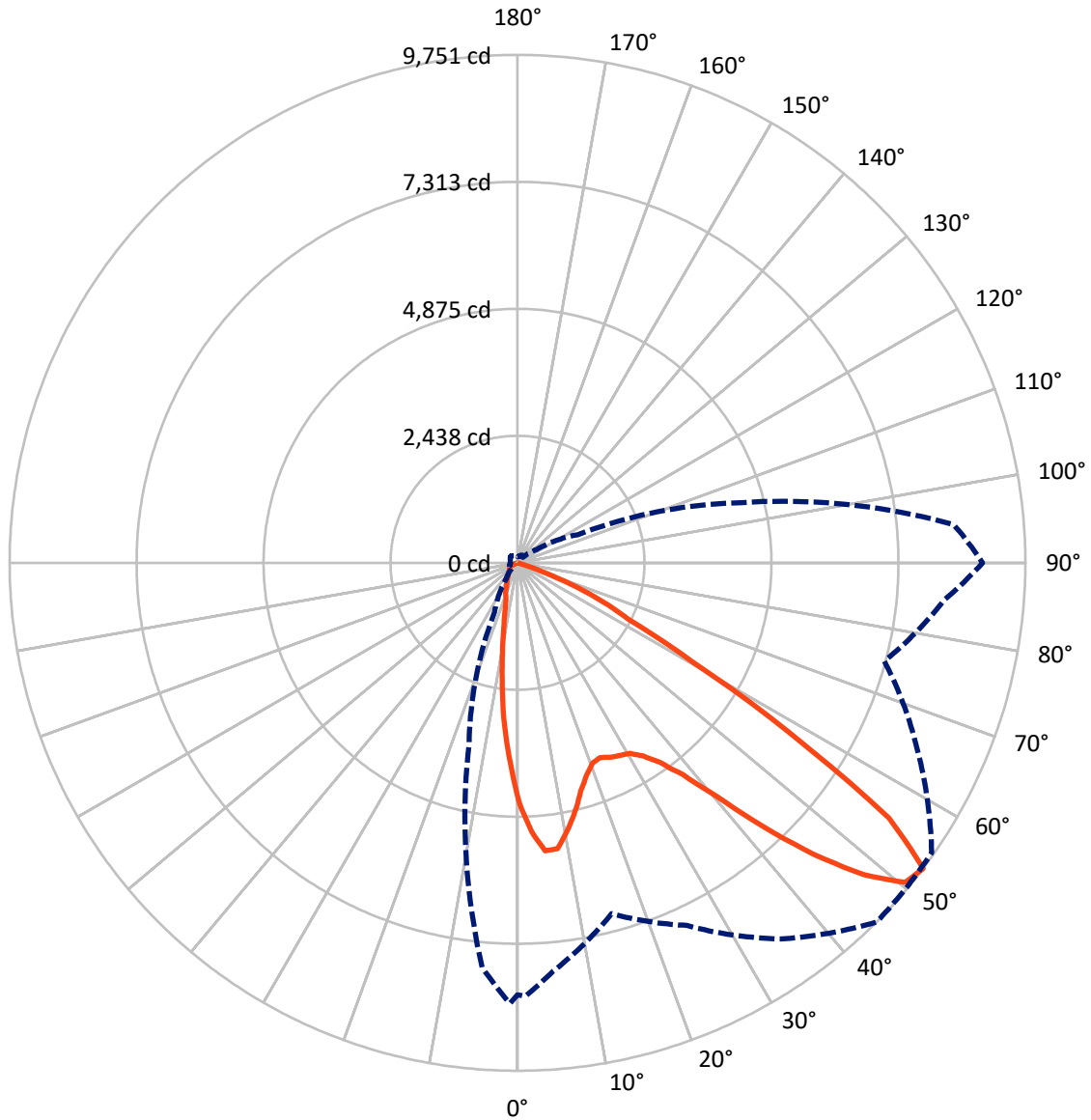
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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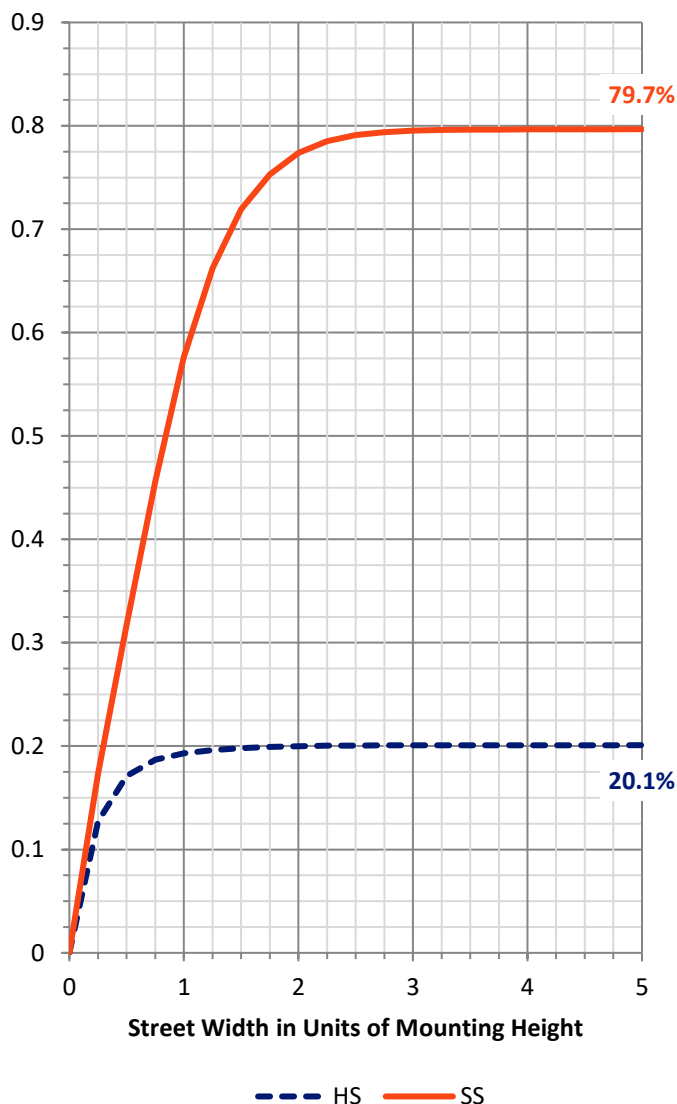
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1848.5	0.0	1848.5
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	7259.5	0.0	7259.5
	% Fixture	79.7	0.0	79.7
Total	Lumens	9108.0	0.0	9108.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.8	3.7
10°-20°	664.5	7.3
20°-30°	1011.2	11.1
30°-40°	1511.4	16.6
40°-50°	2152.4	23.6
50°-60°	2313.8	25.4
60°-70°	1025.3	11.3
70°-80°	83.0	0.9
80°-90°	9.7	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°	9108.0	100.0
0°-180°	9108.0	100.0

Coefficient of Utilization



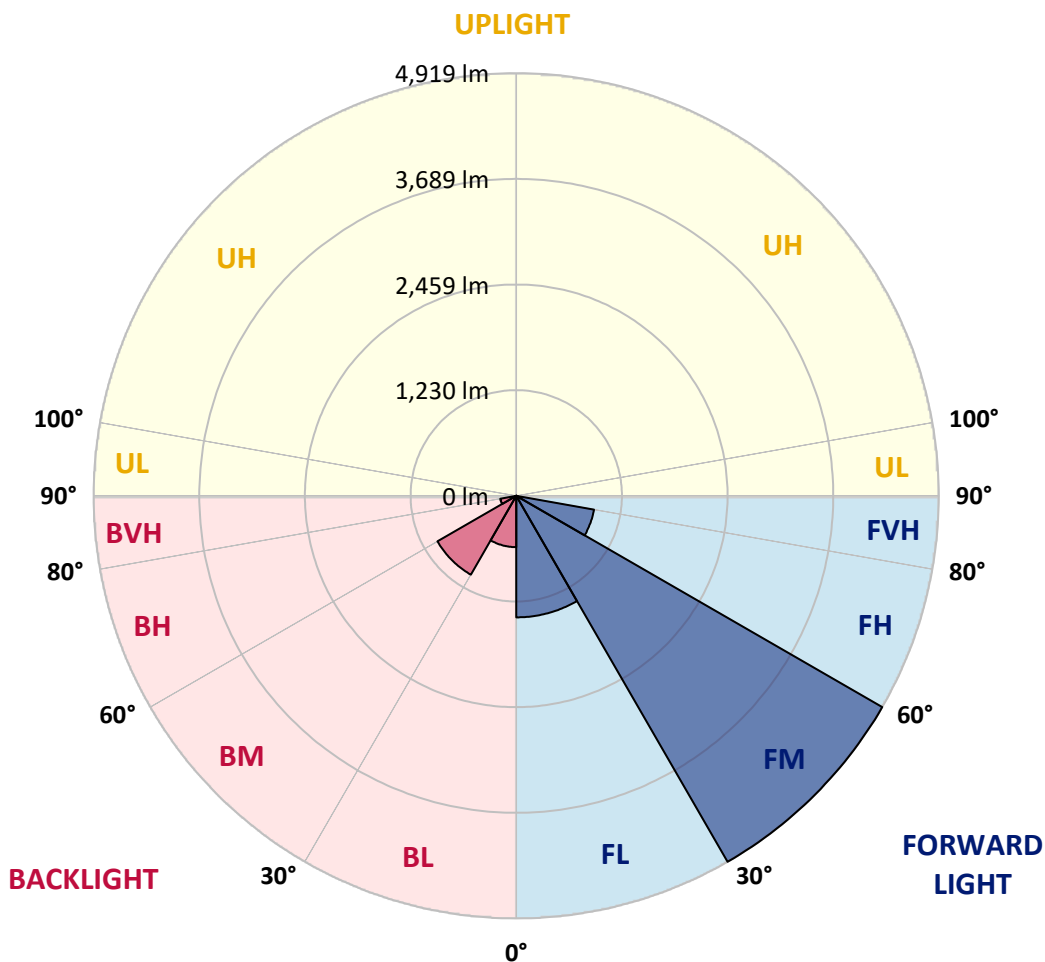
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1414.7	15.5			
FM (30°-60°)	4918.6	54.0			
FH (60°-80°)	919.1	10.1			G1/1800
FVH (80°-90°)	7.2	0.1			G0/10
BL (0°-30°)	597.9	6.6	B2/1000		
BM (30°-60°)	1059.0	11.6	B2/2500		
BH (60°-80°)	189.1	2.1	B1/500		G1/500
BVH (80°-90°)	2.5	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°	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2
2.5°	4886.9	4901.2	4980.0	5078.6	5130.5	5248.7	5166.3	5187.8	5143.1	4985.4	4861.8
5°	4738.2	4736.4	4836.7	5080.4	5311.4	5546.1	5553.3	5427.9	5207.5	4965.7	4620.0
7.5°	4290.4	4360.2	4464.1	4852.9	5281.0	5456.5	5540.7	5393.8	5055.3	4709.5	4335.1
10°	3951.8	3987.6	4163.2	4632.5	4946.0	5180.7	5232.6	5148.4	4888.7	4457.0	4037.8
12.5°	3756.5	3774.4	3980.4	4374.6	4706.0	4879.7	4904.8	4944.2	4757.9	4353.1	3849.7
15°	3758.3	3772.6	4050.3	4379.9	4510.7	4464.1	4546.5	4544.7	4625.3	4333.3	4007.3
17.5°	4028.8	4044.9	4295.7	4458.7	4401.4	4292.1	4286.8	4369.2	4539.4	4578.8	4245.6
20°	4494.6	4532.2	4716.7	4707.7	4385.3	4165.0	4104.1	4166.8	4562.6	4786.6	4725.7
22.5°	5121.6	5173.5	5302.5	5055.3	4458.7	4079.0	4059.3	4181.1	4716.7	5250.5	5270.2
25°	5848.9	5936.6	5999.3	5682.3	4720.3	4227.7	4134.5	4344.1	4924.5	5753.9	5963.5
27.5°	6330.7	6422.1	6407.8	5954.5	4895.8	4267.1	4188.2	4383.5	5105.4	5873.9	6325.4
30°	6706.9	6762.5	6862.8	6101.4	5071.4	4378.1	4243.8	4550.1	5164.6	6081.7	6762.5
32.5°	7145.8	7183.4	7190.6	6361.2	5341.9	4517.9	4415.8	4757.9	5426.1	6280.6	7149.4
35°	7588.3	7643.8	7527.4	6681.8	5508.5	4777.6	4702.4	5118.0	5635.7	6486.6	7575.7
37.5°	8068.4	8097.0	7828.3	6814.4	5746.7	5200.4	5159.2	5506.7	5999.3	6859.2	8048.7
40°	8471.4	8498.3	8149.0	6977.4	5997.5	5791.5	5897.2	6248.3	6493.8	7101.0	8285.1
42.5°	8695.4	8758.1	8256.5	6887.9	6500.9	6461.5	6930.9	7054.5	7067.0	7169.1	8496.5
45°	8756.3	8727.6	8079.1	6961.3	6941.6	7563.2	7989.6	8152.6	7636.7	7294.5	8550.3
47.5°	8475.0	8512.6	7817.6	6896.8	7520.2	8398.0	8949.7	9252.5	8061.2	7185.2	8417.7
50°	8247.5	8199.1	7733.4	6850.2	7676.1	8792.1	9643.0	9711.1	8451.7	7319.6	8272.6
52.5°	8292.3	8322.8	7867.7	6973.8	7679.6	8815.4	9750.5	9703.9	8464.3	7289.1	8220.6
55°	8387.2	8252.9	7810.4	6701.6	7165.5	8165.1	8654.2	8582.5	7812.2	6964.9	8093.5
57.5°	7237.2	7445.0	7181.6	5983.2	5881.1	6151.6	6142.6	6363.0	5827.4	5994.0	7367.9
60°	5873.9	5909.8	6008.3	5118.0	4070.0	3976.9	3847.9	3708.2	3921.3	5125.1	6701.6
62.5°	5166.3	5123.3	5474.5	4655.8	2873.4	2405.8	2384.3	2470.3	3025.6	4888.7	6286.0
65°	3754.7	3808.5	4062.9	3613.2	2156.8	1836.2	1803.9	2058.3	2448.8	3917.7	4797.3
67.5°	2293.0	2396.9	2420.2	2228.5	1463.6	1162.6	1116.0	1347.1	1768.1	2534.8	2812.5
70°	1058.7	1184.1	1302.3	1216.3	847.3	478.3	451.4	566.1	892.1	1458.2	1492.2
72.5°	320.7	322.4	451.4	471.1	274.1	107.5	94.9	125.4	302.7	481.9	507.0
75°	23.3	25.1	60.9	69.9	52.0	26.9	28.7	34.0	64.5	107.5	80.6
77.5°	1.8	1.8	1.8	9.0	16.1	17.9	23.3	26.9	34.0	39.4	35.8
80°	1.8	0.0	1.8	7.2	12.5	17.9	21.5	25.1	26.9	30.5	26.9
82.5°	0.0	0.0	0.0	5.4	12.5	17.9	19.7	26.9	30.5	35.8	30.5
85°	0.0	0.0	0.0	5.4	12.5	19.7	17.9	9.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2
2.5°	4883.3	4813.4	4654.0	4573.4	4383.5	4356.6	4170.3	4139.9	4077.2	4043.1	3960.7
5°	4467.7	4383.5	4123.8	3905.2	3650.8	3473.5	3337.3	3213.7	3142.1	3075.8	3106.3
7.5°	4129.1	3883.7	3595.3	3229.9	2936.1	2746.2	2538.4	2368.2	2267.9	2199.8	2215.9
10°	3774.4	3615.0	3213.7	2803.5	2448.8	2314.5	2151.4	2020.7	1879.2	1757.3	1700.0
12.5°	3663.4	3426.9	2923.5	2506.1	2237.4	2106.7	1920.4	1769.9	1589.0	1440.3	1388.3
15°	3683.1	3455.6	2844.7	2398.7	2081.6	1855.9	1633.7	1447.4	1248.6	1144.7	1091.0
17.5°	4003.7	3609.6	2896.7	2285.8	1864.8	1551.3	1277.3	1040.8	892.1	784.6	761.3
20°	4397.8	3942.8	3007.7	2203.4	1687.5	1234.3	933.3	729.1	605.5	587.6	582.2
22.5°	4974.7	4487.4	3246.0	2147.9	1470.7	962.0	639.5	530.2	496.2	492.6	494.4
25°	5780.8	5169.9	3505.7	2101.3	1307.7	741.6	523.1	449.6	438.9	433.5	442.5
27.5°	6130.1	5581.9	3643.7	2001.0	1159.0	668.2	515.9	446.1	415.6	406.6	412.0
30°	6561.8	5856.0	3860.4	1829.0	940.5	550.0	481.9	485.5	471.1	426.3	412.0
32.5°	7135.1	6198.2	3969.7	1707.2	840.2	455.0	352.9	324.2	361.9	369.0	381.6
35°	7502.3	6545.7	4025.2	1635.5	788.2	388.7	299.2	272.3	263.3	265.1	272.3
37.5°	8184.8	7015.0	4095.1	1560.3	748.8	338.6	270.5	245.4	232.9	232.9	240.0
40°	8593.3	7387.7	4190.0	1519.1	709.4	308.1	245.4	223.9	213.2	213.2	216.8
42.5°	8695.4	7572.2	4157.8	1504.8	664.6	301.0	223.9	207.8	195.3	193.5	191.7
45°	8878.1	7853.4	4163.2	1488.6	618.0	274.1	211.4	193.5	175.6	173.8	172.0
47.5°	9078.7	8055.8	4173.9	1425.9	573.2	229.3	220.3	179.1	157.6	154.1	154.1
50°	8906.7	8217.1	4267.1	1363.2	515.9	186.3	216.8	168.4	139.7	134.4	136.1
52.5°	8928.2	8406.9	4464.1	1275.5	444.3	148.7	175.6	159.4	127.2	118.2	120.0
55°	8584.3	8206.3	4491.0	1182.3	347.5	114.6	134.4	139.7	107.5	103.9	103.9
57.5°	7389.4	6948.8	3962.5	958.4	229.3	94.9	96.7	121.8	93.2	89.6	91.4
60°	6323.6	5578.4	3188.7	632.4	143.3	75.2	69.9	123.6	82.4	80.6	86.0
62.5°	5764.7	4584.1	2418.4	392.3	98.5	57.3	48.4	100.3	71.7	71.7	78.8
65°	4165.0	3079.4	1406.2	206.0	69.9	44.8	35.8	57.3	59.1	60.9	64.5
67.5°	2579.6	1554.9	592.9	100.3	46.6	30.5	23.3	35.8	39.4	39.4	43.0
70°	1273.7	619.8	197.1	57.3	35.8	25.1	16.1	19.7	19.7	17.9	19.7
72.5°	394.1	186.3	50.2	35.8	25.1	16.1	9.0	7.2	3.6	0.0	1.8
75°	44.8	35.8	32.2	25.1	16.1	7.2	1.8	0.0	0.0	0.0	0.0
77.5°	26.9	30.5	30.5	25.1	16.1	5.4	0.0	0.0	0.0	0.0	0.0
80°	21.5	23.3	25.1	23.3	14.3	7.2	0.0	0.0	0.0	0.0	0.0
82.5°	26.9	30.5	34.0	30.5	19.7	9.0	3.6	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	5.4	1.8	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°	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2
2.5°	3926.7	3887.3	3942.8	3860.4	3858.6	3860.4	3837.1	3815.6	3849.7	3941.0	3950.0
5°	2997.0	3081.2	3108.0	3195.8	3147.5	3075.8	3090.1	3041.8	3160.0	3211.9	3170.7
7.5°	2181.9	2176.5	2357.5	2368.2	2391.5	2393.3	2389.7	2294.8	2198.0	2219.5	2284.0
10°	1692.9	1601.5	1689.3	1680.3	1737.6	1721.5	1744.8	1642.7	1676.7	1676.7	1717.9
12.5°	1379.4	1282.6	1266.5	1243.2	1266.5	1275.5	1284.4	1264.7	1322.0	1348.9	1377.6
15°	1053.3	999.6	985.3	940.5	947.6	972.7	994.2	1003.2	985.3	1026.5	1030.0
17.5°	764.9	763.1	772.1	770.3	763.1	757.8	756.0	732.7	725.5	729.1	743.4
20°	580.4	594.7	625.2	655.6	671.8	652.1	625.2	585.8	569.7	573.2	575.0
22.5°	496.2	517.7	558.9	592.9	609.1	573.2	524.9	490.8	483.7	481.9	480.1
25°	449.6	474.7	505.2	515.9	514.1	492.6	456.8	442.5	438.9	435.3	419.2
27.5°	424.6	433.5	438.9	451.4	456.8	442.5	433.5	412.0	408.4	408.4	397.7
30°	410.2	404.9	412.0	403.1	410.2	399.5	401.3	401.3	392.3	395.9	395.9
32.5°	381.6	383.4	383.4	365.4	370.8	358.3	370.8	381.6	383.4	385.1	399.5
35°	279.5	311.7	327.8	327.8	333.2	324.2	322.4	309.9	293.8	277.7	270.5
37.5°	245.4	258.0	279.5	292.0	301.0	293.8	277.7	258.0	249.0	241.8	234.7
40°	218.5	229.3	243.6	258.0	275.9	266.9	241.8	232.9	222.1	222.1	215.0
42.5°	197.1	202.4	211.4	232.9	252.6	234.7	216.8	209.6	204.2	202.4	200.6
45°	177.3	179.1	188.1	206.0	229.3	211.4	193.5	184.5	186.3	188.1	186.3
47.5°	159.4	163.0	168.4	189.9	204.2	195.3	175.6	170.2	170.2	170.2	172.0
50°	137.9	146.9	157.6	175.6	186.3	180.9	164.8	157.6	154.1	154.1	155.9
52.5°	123.6	130.8	145.1	166.6	180.9	172.0	155.9	145.1	137.9	136.1	139.7
55°	107.5	120.0	143.3	159.4	179.1	170.2	152.3	139.7	127.2	125.4	125.4
57.5°	96.7	116.4	137.9	157.6	173.8	166.6	152.3	136.1	120.0	118.2	118.2
60°	91.4	112.9	134.4	152.3	173.8	163.0	150.5	132.6	114.6	114.6	112.9
62.5°	86.0	105.7	127.2	145.1	166.6	157.6	145.1	127.2	109.3	109.3	105.7
65°	71.7	91.4	105.7	121.8	145.1	136.1	123.6	111.1	96.7	93.2	94.9
67.5°	50.2	62.7	77.0	93.2	107.5	103.9	98.5	89.6	77.0	75.2	73.4
70°	25.1	34.0	46.6	62.7	75.2	71.7	68.1	60.9	53.7	52.0	52.0
72.5°	3.6	10.7	19.7	28.7	39.4	41.2	39.4	37.6	35.8	34.0	35.8
75°	0.0	0.0	0.0	7.2	16.1	19.7	23.3	26.9	26.9	23.3	28.7
77.5°	0.0	0.0	0.0	0.0	1.8	9.0	17.9	23.3	28.7	25.1	34.0
80°	0.0	0.0	0.0	0.0	1.8	10.7	17.9	25.1	28.7	25.1	35.8
82.5°	0.0	0.0	0.0	0.0	1.8	12.5	17.9	23.3	26.9	25.1	32.2
85°	0.0	0.0	0.0	0.0	5.4	10.7	7.2	3.6	1.8	1.8	5.4
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-SA4A-730-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2
2.5°	4000.2	4127.3	4263.5	4315.4	4476.7	4598.5	4680.9	4858.2	4885.1	4886.9
5°	3213.7	3278.2	3511.1	3620.4	3860.4	4046.7	4245.6	4532.2	4723.9	4738.2
7.5°	2284.0	2463.1	2561.7	2846.5	3142.1	3434.1	3729.7	4062.9	4285.0	4290.4
10°	1838.0	1954.4	2130.0	2343.1	2592.1	2889.5	3283.6	3670.5	3896.3	3951.8
12.5°	1479.7	1683.9	1884.5	2104.9	2294.8	2518.7	2943.2	3459.2	3645.5	3756.5
15°	1139.3	1325.6	1562.1	1820.0	2035.0	2334.2	2817.8	3407.2	3720.7	3758.3
17.5°	840.2	1006.8	1225.3	1468.9	1791.4	2215.9	2839.3	3670.5	3966.1	4028.8
20°	603.7	700.4	872.4	1155.4	1565.7	2078.0	2860.8	3937.5	4387.1	4494.6
22.5°	478.3	517.7	630.6	881.4	1313.1	1932.9	3013.1	4448.0	4965.7	5121.6
25°	415.6	437.1	490.8	695.1	1153.6	1918.6	3256.7	5060.7	5736.0	5848.9
27.5°	401.3	404.9	451.4	637.7	1067.7	1823.6	3349.9	5496.0	6216.1	6330.7
30°	422.8	480.1	483.7	539.2	908.2	1635.5	3398.2	5916.9	6622.7	6706.9
32.5°	365.4	347.5	360.1	417.4	799.0	1526.3	3489.6	6284.2	7086.7	7145.8
35°	254.4	266.9	295.6	361.9	698.6	1411.6	3512.9	6689.0	7527.4	7588.3
37.5°	234.7	241.8	265.1	308.1	614.4	1347.1	3480.7	6984.6	7984.2	8068.4
40°	218.5	227.5	240.0	279.5	551.7	1275.5	3435.9	7251.5	8263.6	8471.4
42.5°	206.0	213.2	223.9	266.9	498.0	1203.8	3373.2	7627.7	8514.4	8695.4
45°	191.7	202.4	215.0	259.8	467.6	1155.4	3326.6	7604.4	8659.5	8756.3
47.5°	177.3	195.3	209.6	241.8	458.6	1132.2	3346.3	7516.6	8541.3	8475.0
50°	163.0	186.3	211.4	200.6	437.1	1085.6	3369.6	7636.7	8260.1	8247.5
52.5°	150.5	177.3	197.1	164.8	388.7	1040.8	3595.3	7794.3	8458.9	8292.3
55°	132.6	159.4	157.6	132.6	315.3	1006.8	3772.6	7797.9	8324.5	8387.2
57.5°	120.0	141.5	123.6	111.1	232.9	841.9	3484.2	6538.5	7126.1	7237.2
60°	111.1	137.9	93.2	87.8	152.3	607.3	3041.8	5064.2	5664.3	5873.9
62.5°	102.1	130.8	73.4	71.7	105.7	431.7	2500.8	4238.4	4881.5	5166.3
65°	89.6	93.2	59.1	55.5	75.2	232.9	1522.7	2918.2	3649.0	3754.7
67.5°	73.4	71.7	48.4	44.8	50.2	112.9	671.8	1461.8	2115.6	2293.0
70°	59.1	59.1	41.2	35.8	35.8	52.0	175.6	582.2	956.6	1058.7
72.5°	43.0	44.8	32.2	28.7	26.9	25.1	28.7	116.4	250.8	320.7
75°	37.6	39.4	32.2	25.1	19.7	16.1	12.5	10.7	14.3	23.3
77.5°	41.2	41.2	34.0	23.3	17.9	12.5	7.2	3.6	3.6	1.8
80°	52.0	53.7	44.8	30.5	21.5	14.3	9.0	3.6	1.8	1.8
82.5°	55.5	60.9	50.2	37.6	26.9	16.1	9.0	1.8	0.0	0.0
85°	14.3	23.3	39.4	34.0	26.9	16.1	9.0	1.8	0.0	0.0
87.5°	0.0	1.8	5.4	5.4	7.2	7.2	5.4	1.8	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)