

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: P528887

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528887
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-730-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 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: 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

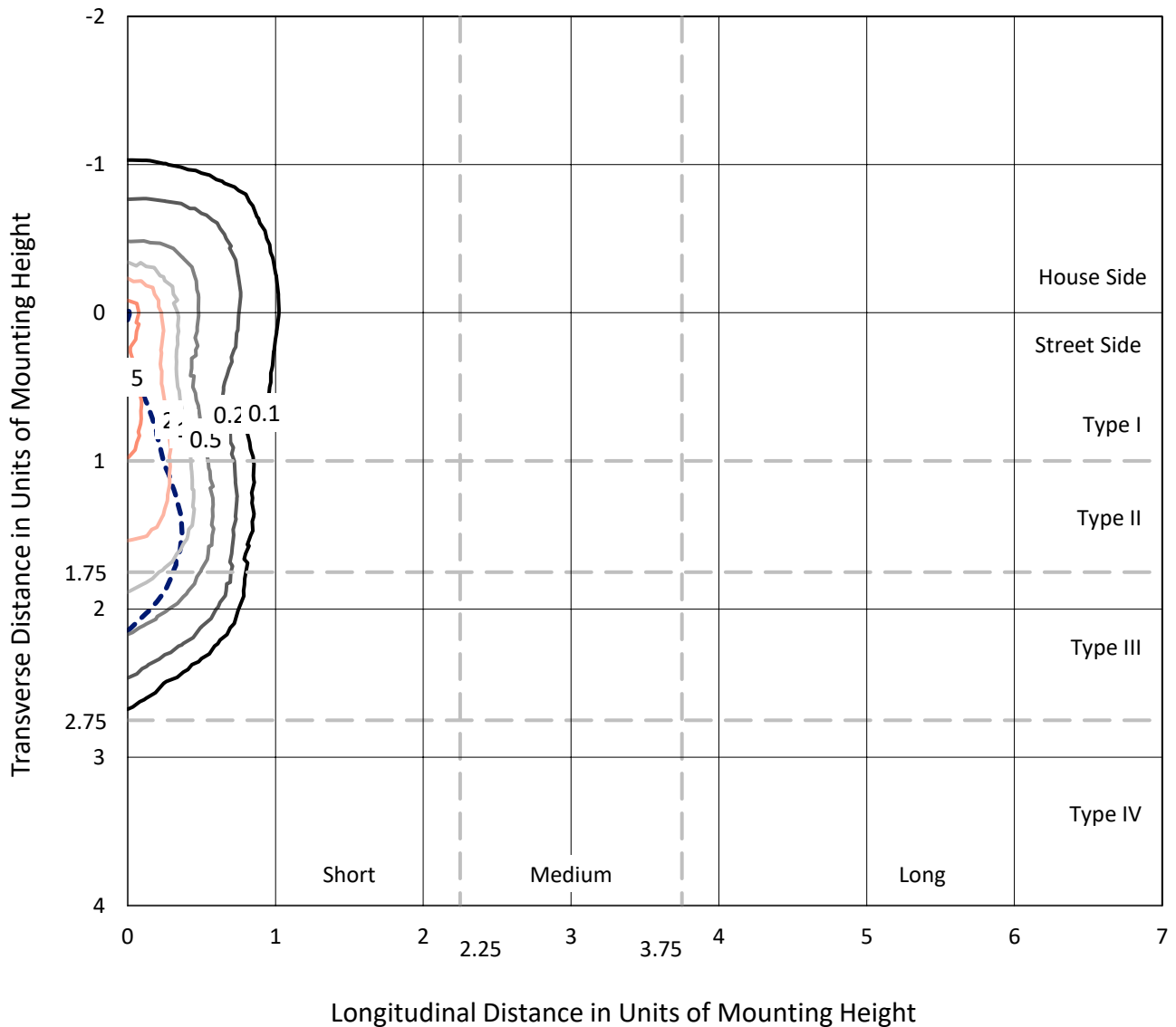




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Iso-Footcandle Lines of Horizontal Illumination

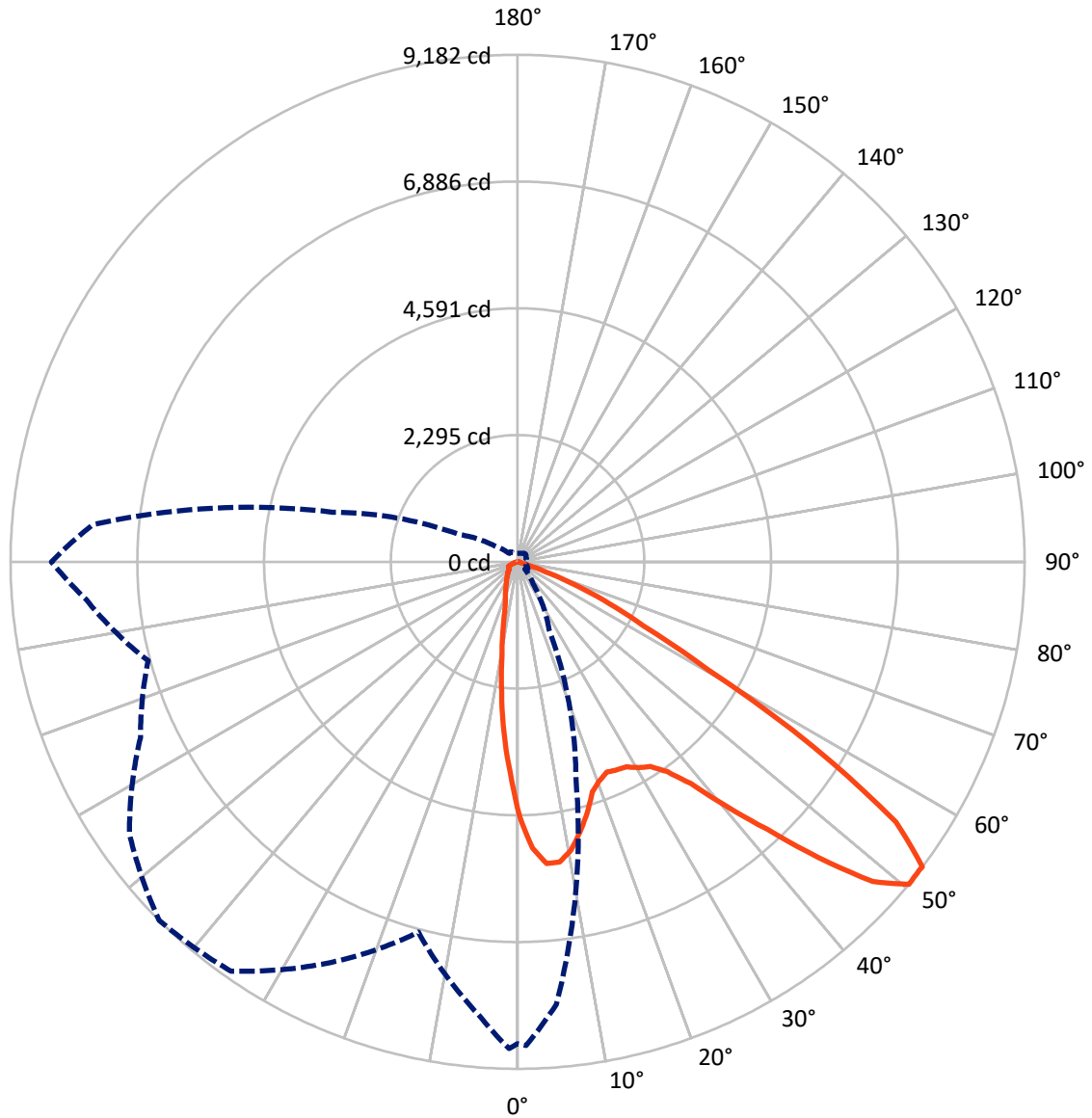
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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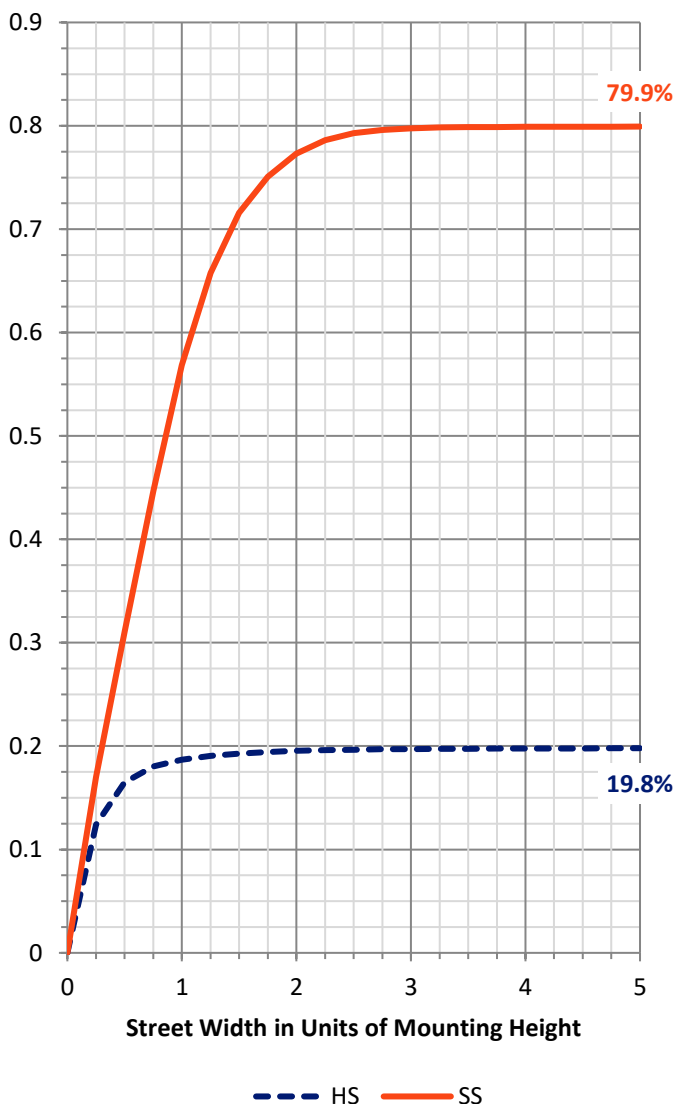
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1824.3	0.0	1824.3
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	7283.7	0.0	7283.7
	% Fixture	80.0	0.0	80.0
Total	Lumens	9108.0	0.0	9108.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.7	3.7
10°-20°	669.1	7.3
20°-30°	1005.2	11.0
30°-40°	1508.8	16.6
40°-50°	2120.5	23.3
50°-60°	2287.3	25.1
60°-70°	1062.0	11.7
70°-80°	99.9	1.1
80°-90°	18.4	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°	9108.0	100.0
0°-180°	9108.0	100.0

Coefficient of Utilization

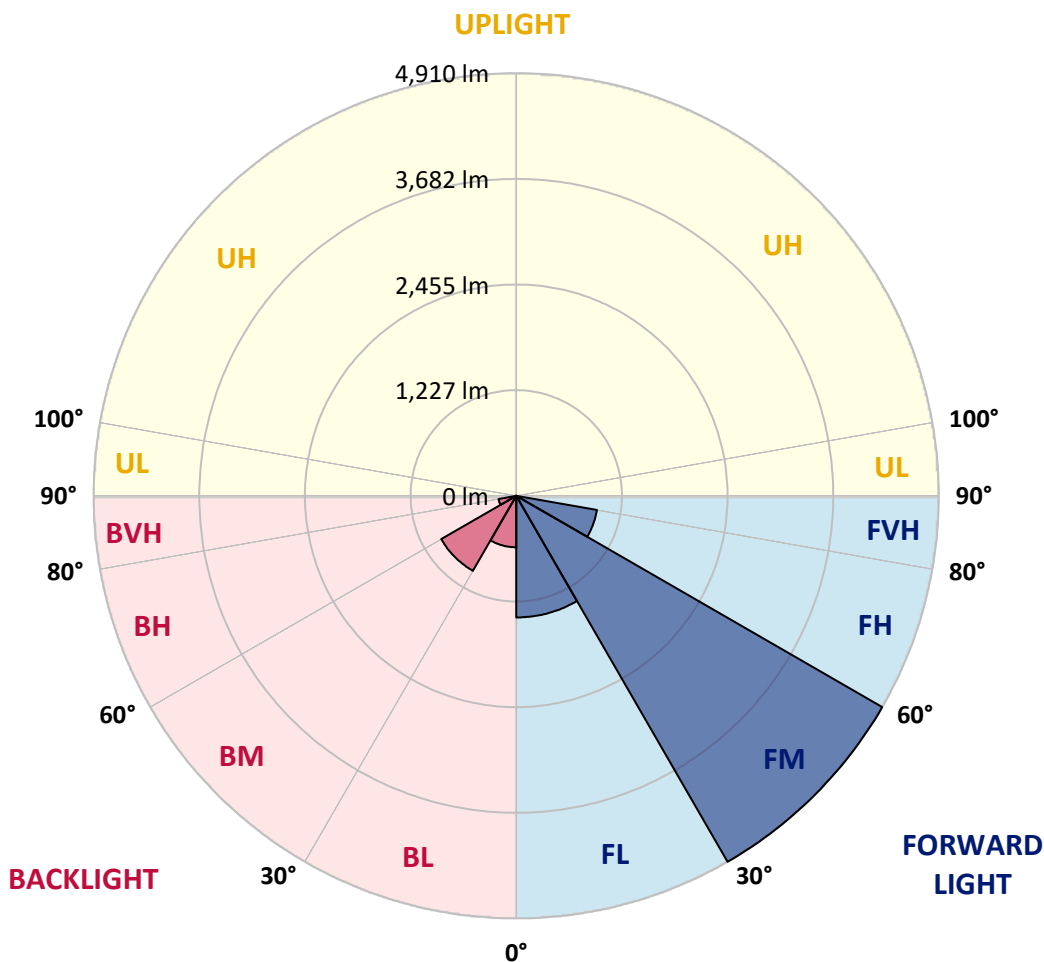


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1413.0	15.5			
FM (30°-60°)	4909.9	53.9			
FH (60°-80°)	952.4	10.5			G1/1800
FVH (80°-90°)	8.3	0.1			G0/10
BL (0°-30°)	598.0	6.6	B2/1000		
BM (30°-60°)	1006.8	11.1	B2/2500		
BH (60°-80°)	209.5	2.3	B1/500		G1/500
BVH (80°-90°)	10.1	0.1			G1/100
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°	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9
2.5°	4801.4	4727.3	4633.4	4555.7	4440.0	4206.9	4143.6	4067.7	4004.5	3919.6	3800.3
5°	4365.9	4342.4	4299.1	4006.3	3794.9	3513.0	3281.7	3184.1	3055.8	2951.0	2875.1
7.5°	4033.4	3939.4	3802.1	3507.5	3169.6	2867.8	2611.2	2461.2	2291.4	2233.6	2130.6
10°	3677.4	3699.1	3496.7	3082.9	2674.5	2430.5	2271.5	2126.9	1973.3	1872.1	1725.8
12.5°	3563.6	3493.1	3337.7	2826.3	2477.5	2249.8	2056.5	1877.6	1714.9	1552.3	1411.3
15°	3637.7	3529.2	3312.4	2772.1	2325.7	2042.0	1799.9	1557.7	1407.7	1199.9	1053.5
17.5°	3903.3	3816.6	3525.6	2829.9	2248.0	1843.2	1483.6	1234.2	1004.7	816.8	742.7
20°	4346.0	4223.2	3858.1	2904.0	2132.4	1602.9	1203.5	896.3	679.5	600.0	558.4
22.5°	4779.7	4712.9	4252.1	3046.7	2029.4	1389.6	903.5	603.6	507.8	493.3	466.2
25°	5605.6	5405.0	4853.8	3305.2	1949.8	1189.1	681.3	486.1	430.1	419.2	422.9
27.5°	6097.1	5929.0	5410.4	3476.8	1861.3	1035.5	576.5	446.3	408.4	384.9	375.9
30°	6568.7	6373.6	5686.9	3578.0	1671.6	872.8	511.4	428.3	419.2	384.9	374.1
32.5°	6932.0	6740.4	6086.3	3729.8	1593.8	768.0	421.1	334.3	310.8	307.2	339.7
35°	7488.6	7284.4	6427.8	3812.9	1534.2	713.8	365.0	298.2	271.1	260.2	262.0
37.5°	8007.2	7868.0	6744.0	3845.5	1471.0	697.5	327.1	267.4	244.0	236.7	234.9
40°	8440.9	8130.1	7044.0	3879.8	1443.9	666.8	303.6	244.0	227.7	216.8	216.8
42.5°	8639.7	8323.4	7380.1	3859.9	1436.6	618.0	303.6	224.1	211.4	200.6	198.8
45°	8596.3	8468.0	7530.1	3850.9	1436.6	569.2	276.5	218.7	200.6	186.1	182.5
47.5°	8708.3	8540.3	7718.1	3888.8	1407.7	534.9	233.1	229.5	189.7	171.7	168.1
50°	8728.2	8760.7	8045.1	4085.8	1344.5	491.5	182.5	225.9	182.5	155.4	151.8
52°	8858.3	8655.9	8144.5	4190.6	1277.6	459.0	153.6	193.4	175.3	144.6	141.0
52.5°	8679.4	8811.3	8168.0	4228.6	1284.8	437.3	148.2	189.7	171.7	144.6	135.5
55°	8478.8	8605.3	8072.2	4309.9	1178.2	343.3	115.7	137.3	155.4	126.5	121.1
57.5°	7369.3	7497.6	7015.1	3946.7	959.6	242.1	95.8	103.0	137.3	117.5	112.0
60°	6550.7	6458.5	5887.5	3292.5	681.3	135.5	75.9	79.5	150.0	108.4	106.6
62.5°	5986.9	5789.9	4920.7	2542.6	415.6	90.4	59.6	61.4	115.7	101.2	101.2
65°	4429.2	4208.7	3269.0	1537.8	204.2	63.2	45.2	48.8	72.3	86.7	86.7
67.5°	2528.1	2443.2	1579.4	693.9	84.9	39.8	34.3	37.9	56.0	70.5	66.9
70°	1162.0	1042.7	607.2	146.4	39.8	27.1	27.1	30.7	45.2	52.4	48.8
72.5°	339.7	321.7	148.2	23.5	16.3	16.3	18.1	23.5	34.3	39.8	36.1
75°	25.3	16.3	10.8	7.2	7.2	10.8	14.5	23.5	34.3	37.9	30.7
77.5°	1.8	3.6	1.8	1.8	5.4	10.8	16.3	28.9	45.2	47.0	34.3
80°	1.8	1.8	0.0	1.8	5.4	10.8	18.1	32.5	50.6	54.2	28.9
82.5°	0.0	0.0	0.0	1.8	7.2	14.5	21.7	34.3	47.0	57.8	30.7
85°	0.0	0.0	0.0	1.8	10.8	19.9	25.3	9.0	5.4	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°	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9
2.5°	3885.2	3838.2	3820.2	3836.4	3831.0	3825.6	3925.0	3903.3	3899.7	3932.2	3925.0
5°	2916.6	2833.5	3061.2	2969.0	3064.8	3122.6	3133.5	3138.9	3205.8	3135.3	3227.5
7.5°	2078.1	2099.8	2098.0	2159.5	2269.7	2367.3	2425.1	2379.9	2376.3	2367.3	2327.5
10°	1660.7	1622.8	1615.5	1601.1	1635.4	1718.5	1789.0	1733.0	1693.2	1747.4	1731.2
12.5°	1357.1	1304.7	1275.8	1218.0	1219.8	1275.8	1275.8	1275.8	1315.6	1346.3	1369.8
15°	1040.9	997.5	997.5	939.7	927.0	928.8	957.8	961.4	1024.6	1042.7	1051.7
17.5°	728.3	704.8	731.9	755.4	740.9	744.5	755.4	759.0	768.0	760.8	778.9
20°	560.2	556.6	563.8	605.4	636.1	654.2	641.5	623.4	612.6	587.3	587.3
22.5°	475.3	482.5	495.1	529.5	569.2	580.1	565.6	524.1	491.5	487.9	489.7
25°	422.9	430.1	450.0	471.6	493.3	511.4	496.9	466.2	448.2	431.9	431.9
27.5°	390.3	393.9	404.8	421.1	439.1	453.6	448.2	431.9	412.0	404.8	388.5
30°	365.0	370.5	383.1	386.7	403.0	410.2	401.2	397.6	384.9	375.9	370.5
32.5°	352.4	350.6	359.6	363.2	365.0	370.5	359.6	365.0	363.2	348.8	343.3
35°	265.6	280.1	303.6	323.5	328.9	336.1	334.3	327.1	307.2	290.9	271.1
37.5°	238.5	247.6	260.2	276.5	298.2	307.2	303.6	285.5	262.0	251.2	247.6
40°	220.5	225.9	236.7	247.6	269.3	285.5	272.9	256.6	238.5	229.5	224.1
42.5°	204.2	206.0	211.4	222.3	238.5	263.8	242.1	220.5	213.2	207.8	204.2
45°	186.1	186.1	193.4	198.8	216.8	240.3	218.7	198.8	195.2	191.6	189.7
47.5°	171.7	173.5	177.1	184.3	198.8	215.0	200.6	184.3	175.3	173.5	169.9
50°	153.6	155.4	162.6	169.9	187.9	197.0	187.9	169.9	160.8	155.4	155.4
52°	139.1	144.6	151.8	166.3	178.9	193.4	182.5	162.6	151.8	146.4	142.8
52.5°	137.3	141.0	148.2	164.4	178.9	191.6	180.7	160.8	148.2	144.6	141.0
55°	122.9	128.3	141.0	160.8	177.1	191.6	177.1	159.0	141.0	131.9	128.3
57.5°	117.5	121.1	137.3	162.6	175.3	191.6	177.1	159.0	141.0	124.7	121.1
60°	112.0	119.3	137.3	157.2	173.5	193.4	178.9	157.2	137.3	117.5	117.5
62.5°	106.6	112.0	135.5	153.6	166.3	186.1	171.7	153.6	131.9	112.0	110.2
65°	92.2	101.2	119.3	128.3	142.8	160.8	146.4	133.7	115.7	99.4	97.6
67.5°	70.5	74.1	88.5	99.4	108.4	124.7	117.5	101.2	88.5	75.9	75.9
70°	48.8	52.4	63.2	68.7	77.7	86.7	81.3	68.7	59.6	52.4	50.6
72.5°	34.3	36.1	39.8	43.4	47.0	50.6	48.8	39.8	34.3	32.5	30.7
75°	27.1	30.7	32.5	30.7	28.9	27.1	27.1	23.5	19.9	18.1	18.1
77.5°	27.1	28.9	27.1	23.5	19.9	18.1	16.3	14.5	10.8	9.0	10.8
80°	23.5	23.5	23.5	19.9	18.1	16.3	14.5	12.6	10.8	9.0	9.0
82.5°	25.3	25.3	23.5	19.9	19.9	16.3	16.3	14.5	12.6	9.0	9.0
85°	0.0	0.0	0.0	3.6	9.0	16.3	16.3	14.5	12.6	10.8	10.8
87.5°	0.0	0.0	0.0	0.0	1.8	3.6	7.2	9.0	10.8	10.8	10.8
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°	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9
2.5°	3990.0	4058.7	4188.8	4318.9	4398.4	4492.4	4662.3	4752.6	4870.1	4927.9	5041.8
5°	3214.8	3377.4	3435.3	3583.4	3742.5	3901.5	4154.5	4432.8	4664.1	4823.1	5029.1
7.5°	2345.6	2383.5	2607.6	2707.0	2967.2	3256.4	3601.5	3952.1	4244.8	4505.1	4662.3
10°	1758.3	1897.4	2038.4	2228.1	2437.8	2735.9	3066.6	3453.3	3832.8	4093.0	4291.8
12.5°	1413.1	1523.4	1711.3	1915.5	2173.9	2370.9	2703.4	3086.5	3578.0	3832.8	4094.9
15°	1069.8	1210.7	1424.0	1635.4	1908.3	2116.1	2452.2	2934.7	3567.2	3917.8	4143.6
17.5°	793.3	889.1	1080.6	1317.4	1595.7	1888.4	2342.0	2918.4	3688.3	4105.7	4338.8
20°	607.2	639.7	760.8	972.2	1274.0	1657.1	2163.1	2988.9	4046.1	4562.9	4799.6
22.5°	491.5	506.0	553.0	699.3	992.1	1454.7	2078.1	3037.7	4449.0	5110.4	5426.7
25°	428.3	424.7	455.4	518.6	775.2	1265.0	1969.7	3222.0	4942.4	5753.8	6037.5
27.5°	390.3	390.3	404.8	450.0	643.3	1142.1	1901.1	3353.9	5439.3	6319.4	6473.0
30°	370.5	374.1	415.6	430.1	534.9	995.7	1787.2	3487.7	5914.6	6680.8	6892.2
32.5°	343.3	328.9	319.9	356.0	450.0	863.8	1673.4	3543.7	6299.5	7123.5	7304.2
35°	263.8	256.6	267.4	294.6	386.7	751.7	1546.9	3606.9	6742.2	7636.7	7672.9
37.5°	238.5	236.7	244.0	267.4	325.3	654.2	1456.5	3590.7	7080.2	8061.4	7963.8
40°	220.5	220.5	225.9	245.8	290.9	585.5	1362.5	3576.2	7407.2	8538.5	8252.9
42.5°	206.0	206.0	215.0	227.7	276.5	540.3	1292.1	3556.3	7681.9	8831.2	8422.8
45°	186.1	191.6	206.0	218.7	280.1	509.6	1239.7	3480.4	7775.9	8827.6	8341.5
47.5°	171.7	178.9	193.4	211.4	253.0	500.6	1203.5	3413.6	7743.4	8610.8	8086.7
50°	155.4	164.4	184.3	215.0	215.0	482.5	1165.6	3473.2	7719.9	8442.7	7842.7
52°	144.6	151.8	177.1	209.6	187.9	444.5	1142.1	3588.9	7815.6	8421.0	7734.3
52.5°	142.8	148.2	171.7	206.0	178.9	437.3	1125.8	3616.0	7846.4	8366.8	7808.4
55°	126.5	133.7	157.2	160.8	146.4	359.6	1073.4	3677.4	7694.6	8260.2	7737.9
57.5°	119.3	122.9	139.1	131.9	126.5	271.1	923.4	3581.6	6834.4	7336.8	7199.4
60°	110.2	113.8	130.1	103.0	106.6	189.7	693.9	3110.0	5488.1	6113.4	6360.9
62.5°	106.6	104.8	122.9	83.1	90.4	137.3	489.7	2528.1	4228.6	5032.7	5461.0
65°	94.0	92.2	88.5	70.5	77.7	106.6	292.7	1649.9	2979.9	3807.5	4042.4
67.5°	72.3	75.9	65.1	56.0	65.1	83.1	162.6	739.1	1563.1	2284.2	2473.9
70°	50.6	54.2	52.4	48.8	57.8	68.7	94.0	253.0	646.9	1199.9	1322.8
72.5°	30.7	37.9	39.8	41.6	50.6	59.6	66.9	81.3	171.7	424.7	527.7
75°	18.1	25.3	30.7	36.1	41.6	50.6	56.0	57.8	59.6	79.5	128.3
77.5°	12.6	18.1	27.1	34.3	41.6	50.6	59.6	63.2	59.6	56.0	59.6
80°	10.8	18.1	25.3	32.5	43.4	52.4	59.6	59.6	57.8	50.6	54.2
82.5°	10.8	18.1	27.1	34.3	41.6	50.6	57.8	59.6	54.2	50.6	52.4
85°	12.6	19.9	28.9	36.1	45.2	41.6	37.9	30.7	28.9	23.5	25.3
87.5°	12.6	18.1	18.1	19.9	21.7	21.7	21.7	19.9	16.3	14.5	14.5
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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CATALOG NUMBER: GALN-SA4A-730-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9	4618.9
2.5°	5047.2	5191.7	5186.3	5189.9	5168.3	5021.9	4951.4	4772.5	4823.1	4801.4
5°	5240.5	5383.3	5506.2	5491.7	5325.5	5126.7	4832.1	4553.8	4478.0	4365.9
7.5°	5047.2	5390.5	5504.4	5488.1	5242.3	4987.5	4517.7	4239.4	4107.5	4033.4
10°	4740.0	5137.5	5278.5	5307.4	5141.2	4754.4	4322.5	3876.2	3805.7	3677.4
12.5°	4564.7	4853.8	4940.6	5018.3	4960.4	4671.3	4174.4	3746.1	3648.5	3563.6
15°	4421.9	4593.6	4629.7	4718.3	4752.6	4597.2	4252.1	3887.0	3646.7	3637.7
17.5°	4553.8	4483.4	4351.5	4378.6	4487.0	4599.0	4452.7	4165.3	3932.2	3903.3
20°	4772.5	4461.7	4163.5	4230.4	4320.7	4664.1	4756.2	4553.8	4420.1	4346.0
22.5°	5023.7	4499.6	4103.9	4136.4	4308.1	4810.5	5247.8	5135.7	4886.4	4779.7
25°	5488.1	4604.4	4150.9	4172.6	4407.5	5014.7	5692.3	5775.4	5627.3	5605.6
27.5°	5941.7	4875.5	4253.9	4205.1	4458.1	5213.4	5961.6	6407.9	6147.7	6097.1
30°	6173.0	5096.0	4407.5	4324.3	4667.7	5334.5	6124.2	6819.9	6592.2	6568.7
32.5°	6527.2	5296.6	4526.7	4420.1	4785.2	5484.5	6427.8	7269.9	7049.4	6932.0
35°	6675.4	5515.2	4788.8	4664.1	5121.3	5694.1	6583.2	7671.1	7602.4	7488.6
37.5°	6960.9	5750.1	5097.8	5090.6	5527.9	5967.0	6863.3	8216.8	8204.2	8007.2
40°	6984.4	6006.7	5585.7	5813.4	6156.7	6442.3	7109.1	8368.6	8574.6	8440.9
42.5°	7020.5	6456.7	6429.6	6617.5	6912.1	6850.7	7118.1	8404.7	8719.2	8639.7
45°	7036.8	6906.7	7288.0	7634.9	7757.8	7385.5	7033.2	8336.1	8795.1	8596.3
47.5°	6906.7	7293.4	7981.9	8652.3	8688.5	7714.4	6997.0	8265.6	8840.2	8708.3
50°	6924.7	7535.5	8581.8	9181.8	9049.9	8005.4	6941.0	8222.2	8816.8	8728.2
52°	6881.4	7541.0	8666.8	9170.9	9078.8	7844.5	6845.2	8056.0	8795.1	8858.3
52.5°	6930.2	7508.4	8578.2	9178.2	9058.9	7924.1	6832.6	8148.1	8807.7	8679.4
55°	6762.1	7121.7	8059.6	8314.4	8296.3	7192.2	6444.1	7842.7	8477.0	8478.8
57.5°	6111.6	6173.0	6321.2	6315.8	6232.6	5654.4	5511.6	7212.1	7557.2	7369.3
60°	5385.1	4519.5	4120.1	3957.5	3865.4	3771.4	4875.5	6597.7	6630.2	6550.7
62.5°	4653.2	3133.5	2602.2	2557.0	2578.7	2922.1	4712.9	6353.7	6158.5	5986.9
65°	3755.1	2284.2	1890.2	1830.6	2042.0	2412.5	3814.8	4871.9	4571.9	4429.2
67.5°	2358.2	1666.1	1277.6	1165.6	1420.4	1660.7	2506.4	3061.2	2725.1	2528.1
70°	1398.7	930.6	578.3	518.6	583.7	885.5	1404.1	1527.0	1263.2	1162.0
72.5°	551.2	341.5	160.8	137.3	142.8	310.8	516.8	504.2	381.3	339.7
75°	148.2	103.0	56.0	45.2	37.9	57.8	83.1	54.2	19.9	25.3
77.5°	68.7	61.4	48.8	37.9	28.9	21.7	10.8	3.6	3.6	1.8
80°	59.6	52.4	45.2	37.9	28.9	18.1	9.0	1.8	1.8	1.8
82.5°	56.0	48.8	41.6	34.3	27.1	18.1	9.0	1.8	0.0	0.0
85°	23.5	30.7	34.3	32.5	28.9	18.1	9.0	1.8	0.0	0.0
87.5°	12.6	10.8	9.0	7.2	5.4	3.6	3.6	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)