

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: P452292

Luminaire Tested: **GALN-SA3B-727-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452292
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10202 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

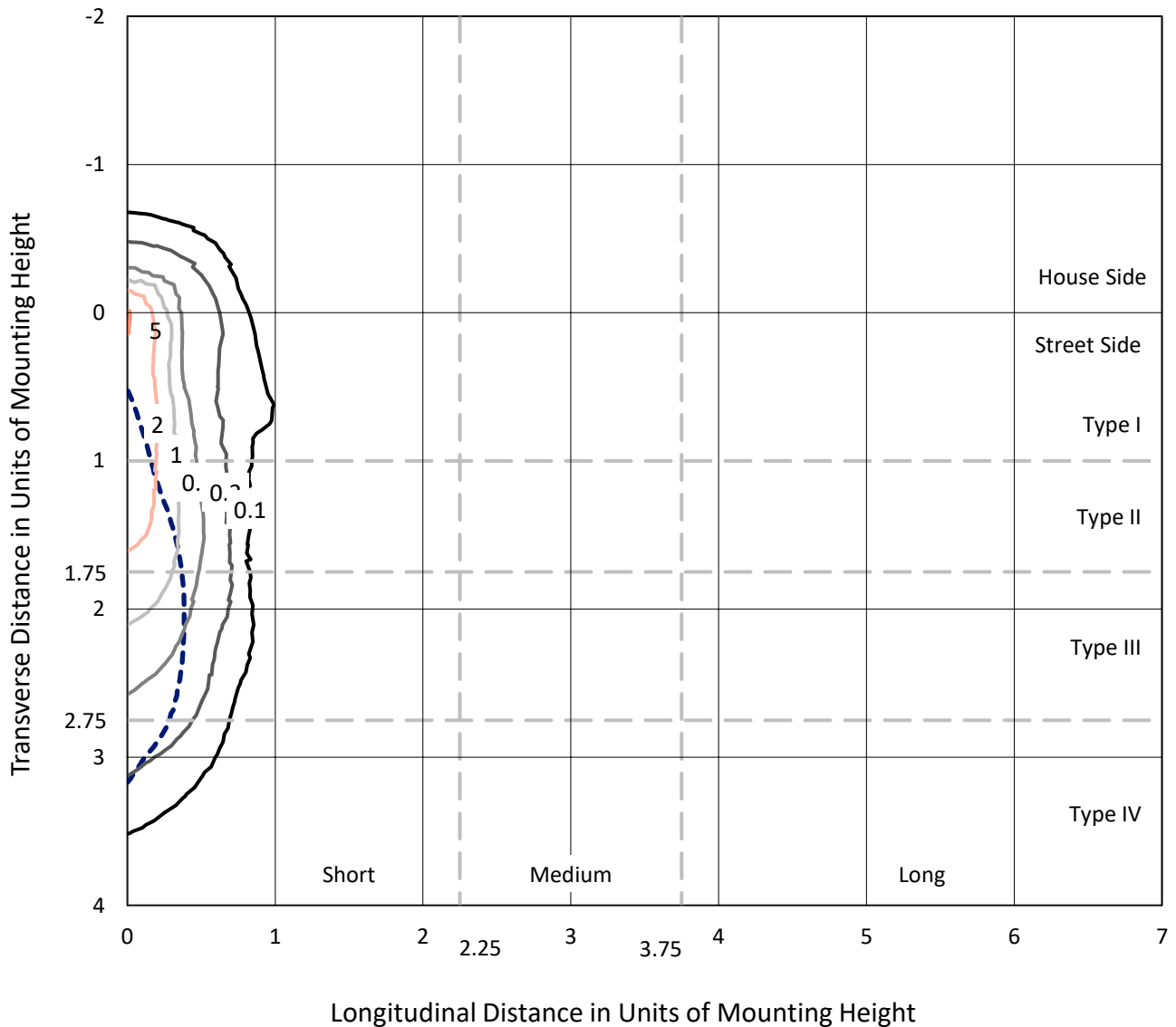
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

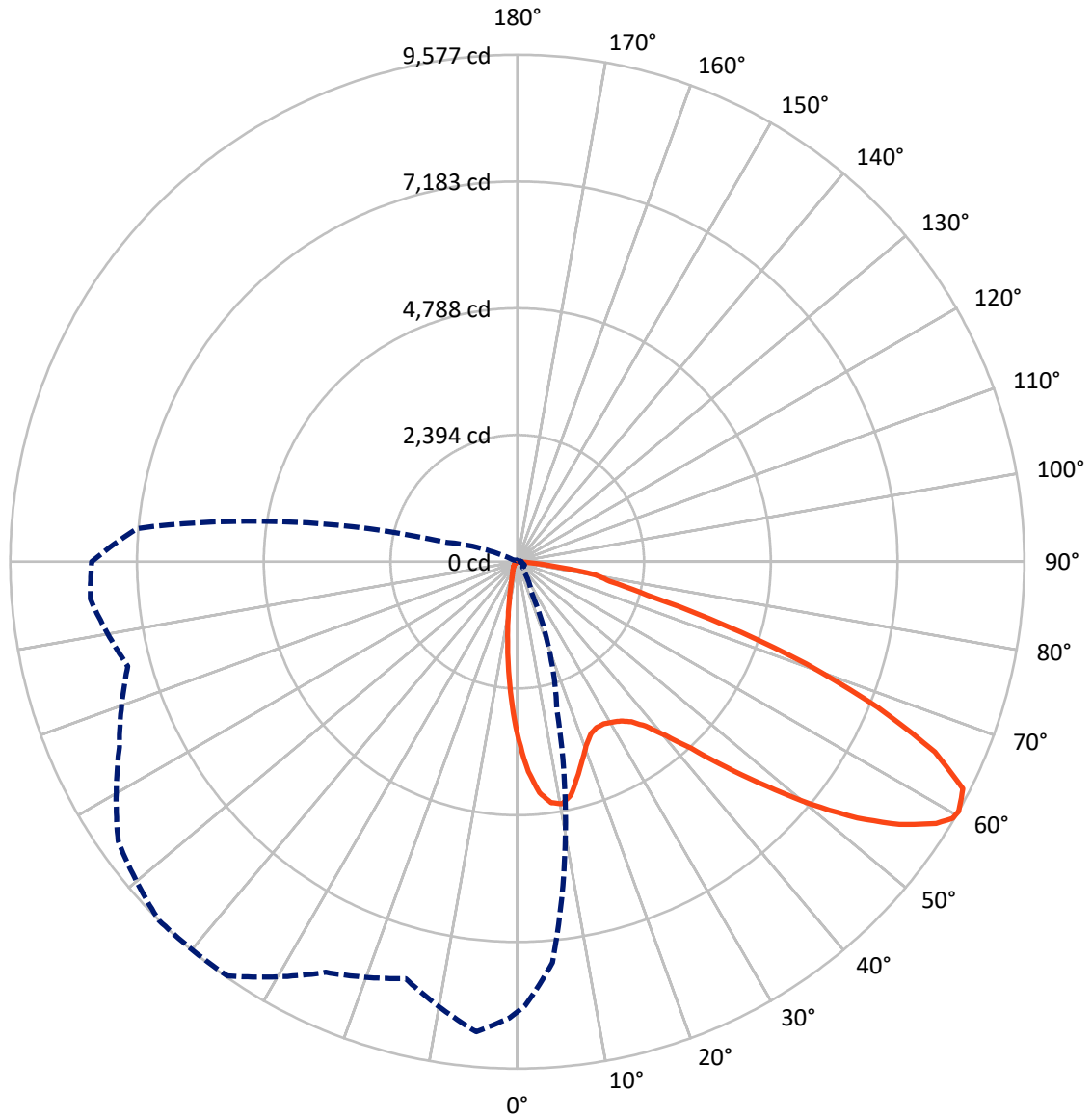
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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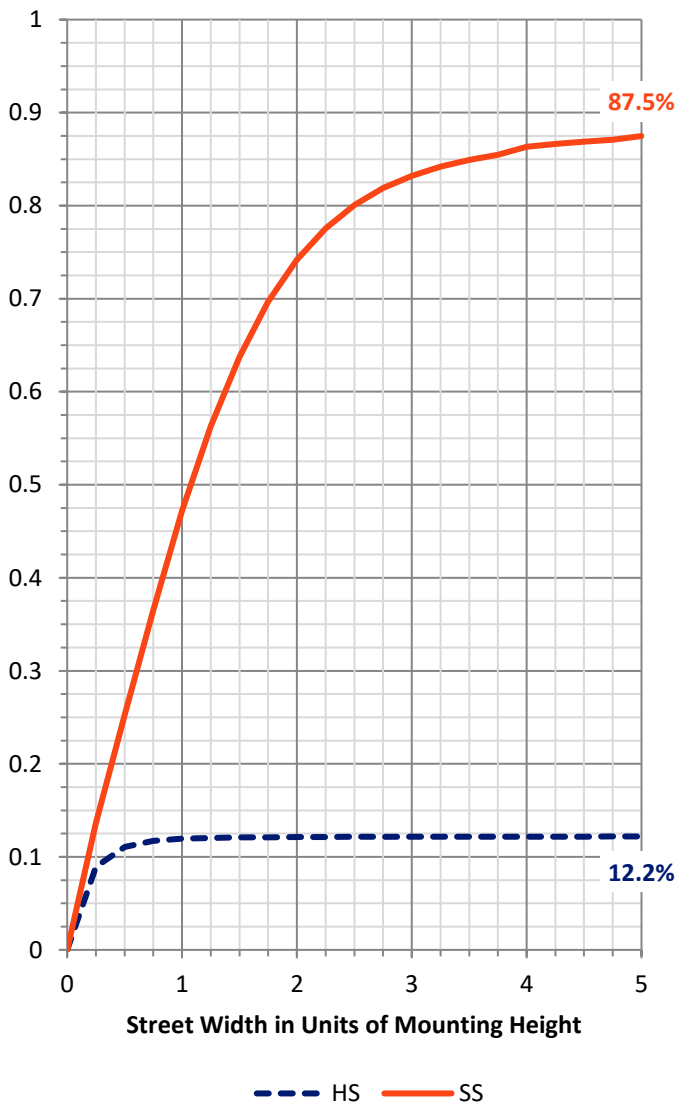
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1258.3	0.0	1258.3
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	8943.7	0.0	8943.7
	% Fixture	87.7	0.0	87.7
Total	Lumens	10202.0	0.0	10202.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.8	2.5
10°-20°	498.1	4.9
20°-30°	730.3	7.2
30°-40°	1086.1	10.6
40°-50°	1580.6	15.5
50°-60°	2279.4	22.3
60°-70°	2507.1	24.6
70°-80°	1123.0	11.0
80°-90°	146.7	1.4
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°	10202.0	100.0
0°-180°	10202.0	100.0



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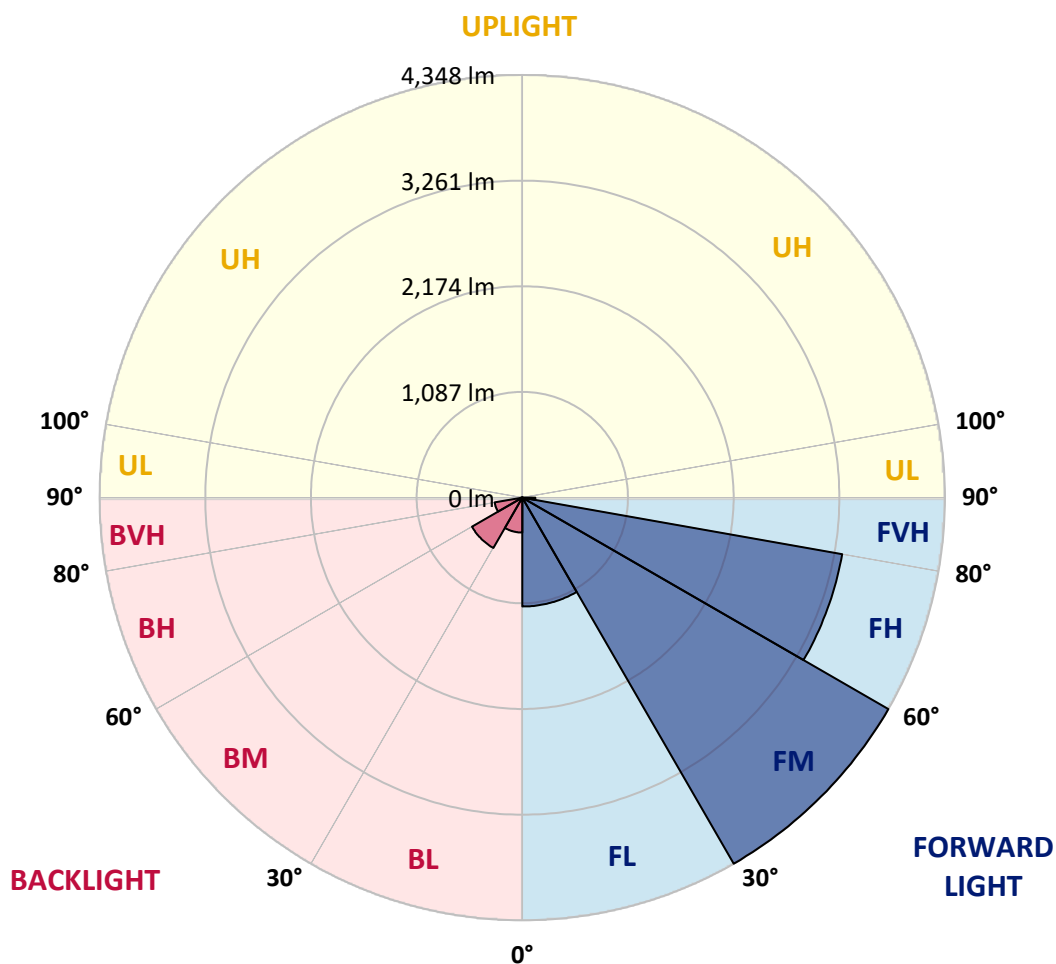
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1119.6	11.0			
FM (30°-60°)	4348.4	42.6			
FH (60°-80°)	3341.5	32.8			G2/5000
FVH (80°-90°)	134.2	1.3			G2/225
BL (0°-30°)	359.5	3.5	B1/500		
BM (30°-60°)	597.7	5.9	B1/1000		
BH (60°-80°)	288.6	2.8	B1/500		G1/500
BVH (80°-90°)	12.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9
2.5°	3706.9	3690.6	3653.4	3540.2	3441.7	3313.0	3182.7	3080.3	3017.5	2901.9	2849.2
5°	3591.4	3599.1	3491.3	3258.7	2999.7	2822.8	2629.7	2476.2	2307.1	2200.1	2087.7
7.5°	3289.7	3274.2	3157.1	2832.9	2518.1	2262.2	2017.9	1819.3	1694.5	1594.4	1510.7
10°	3031.5	3019.8	2870.2	2452.9	2114.8	1923.3	1758.1	1584.4	1450.2	1303.6	1186.5
12.5°	2869.4	2843.0	2670.8	2235.0	1959.7	1781.3	1601.4	1420.7	1235.4	1087.3	945.3
15°	2815.1	2777.1	2585.5	2159.8	1860.4	1634.0	1408.3	1200.5	987.2	823.6	716.6
17.5°	2913.6	2850.8	2646.8	2146.6	1741.8	1441.7	1164.0	893.4	671.6	546.7	480.8
20°	3139.3	3067.1	2801.9	2133.4	1610.0	1226.1	884.9	631.3	464.5	396.3	359.8
22.5°	3474.3	3375.0	3031.5	2154.4	1488.2	1015.9	639.0	445.9	369.1	326.5	300.9
25°	3876.8	3793.8	3322.3	2228.8	1392.0	850.7	494.0	364.5	311.0	284.6	265.2
27.5°	4318.0	4185.4	3698.4	2318.0	1304.4	722.8	433.5	325.7	276.9	252.8	242.7
30°	4632.1	4529.0	4013.3	2380.0	1195.1	626.6	396.3	321.1	277.6	248.9	230.3
32.5°	4942.3	4810.5	4276.9	2408.7	1115.2	559.9	342.8	280.0	243.5	228.8	210.2
35°	5274.2	5136.2	4539.8	2393.2	1055.5	515.7	311.0	249.7	208.6	183.8	165.2
37.5°	5610.0	5464.2	4801.2	2337.4	1018.2	497.9	286.2	237.3	197.0	171.4	151.2
40°	6008.6	5814.0	5046.2	2291.6	979.5	488.6	269.9	229.6	188.4	161.3	141.1
42.5°	6334.3	6149.0	5278.1	2267.6	953.1	466.9	269.9	223.3	183.0	152.8	131.8
45°	6643.0	6450.7	5528.6	2287.0	942.2	439.7	273.0	222.6	179.1	146.6	125.6
47.5°	6901.2	6734.5	5786.1	2359.9	928.3	410.2	256.7	233.4	176.8	141.1	119.4
50°	7206.0	7044.7	6126.5	2507.2	903.5	380.8	236.5	251.3	176.0	136.5	114.0
52.5°	7635.6	7461.2	6596.5	2674.7	863.9	335.8	217.9	248.9	172.9	128.7	108.6
55°	8160.7	8019.5	7140.9	2875.6	809.6	285.4	188.4	221.0	163.6	115.6	99.3
57.5°	8497.2	8377.0	7548.8	2962.4	726.7	233.4	166.0	185.3	149.7	103.1	88.4
59°	8536.8	8428.2	7634.1	2933.7	672.4	213.3	155.1	159.0	145.8	96.2	82.2
60°	8503.4	8391.0	7600.0	2877.9	622.0	199.3	145.8	141.1	146.6	92.3	77.6
62.5°	8289.4	8097.1	7268.8	2594.8	543.6	183.0	129.5	115.6	129.5	83.0	69.0
65°	7876.1	7587.6	6613.5	2196.2	512.6	173.7	110.1	96.9	98.5	72.9	59.7
67.5°	7154.1	6790.3	5741.1	1784.4	499.4	174.5	93.1	86.9	76.0	62.0	52.7
70°	6012.5	5649.6	4606.5	1468.0	493.2	174.5	79.1	74.4	63.6	52.0	45.8
72.5°	4260.6	3869.8	3107.5	1153.2	444.4	173.7	67.5	67.5	52.0	43.4	37.2
75°	2407.2	2410.3	1953.5	815.8	369.1	143.5	54.3	53.5	38.0	33.3	27.9
77.5°	1402.9	1378.1	1316.8	350.5	171.4	65.1	38.0	32.6	26.4	24.0	20.2
80°	721.2	593.3	577.8	127.2	61.3	41.1	26.4	18.6	17.1	15.5	14.0
82.5°	213.3	214.0	190.8	51.2	34.1	27.1	13.2	10.1	9.3	8.5	8.5
85°	14.7	9.3	10.9	15.5	20.9	10.9	0.8	2.3	2.3	3.1	3.9
87.5°	1.6	0.8	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°	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9
2.5°	2791.1	2825.2	2761.6	2763.1	2710.4	2727.5	2665.4	2685.6	2649.1	2677.1	2759.3
5°	2100.1	2107.8	2056.6	2040.4	2048.1	2079.9	2092.3	2035.7	2059.7	2012.4	2009.3
7.5°	1479.7	1489.0	1459.5	1455.6	1511.5	1498.3	1522.3	1464.2	1409.1	1433.1	1388.9
10°	1149.3	1110.5	1050.0	1033.0	1022.1	1029.1	1029.1	976.4	968.6	947.7	979.5
12.5°	907.3	860.0	802.7	725.1	705.7	704.2	675.5	628.9	614.2	596.4	622.7
15°	659.2	639.8	591.7	548.3	504.1	495.5	449.0	411.0	360.6	353.6	351.3
17.5°	463.8	435.1	434.3	409.5	383.9	366.8	323.4	280.0	260.6	258.2	258.2
20°	347.4	337.3	321.1	318.0	310.2	290.8	252.0	228.8	219.5	220.2	223.3
22.5°	292.4	285.4	270.7	263.7	260.6	243.5	214.8	199.3	194.7	194.7	195.4
25°	261.3	255.1	238.9	228.0	224.1	211.7	189.2	177.6	173.7	173.7	173.7
27.5°	238.1	230.3	213.3	204.0	197.0	183.0	169.1	157.4	153.6	153.6	154.3
30°	221.8	213.3	197.8	185.3	174.5	162.1	150.4	140.4	135.7	134.9	135.7
32.5°	200.1	192.3	176.8	169.1	156.7	141.9	132.6	123.3	118.7	119.4	118.7
35°	155.9	153.6	142.7	145.0	138.0	125.6	117.1	107.0	101.6	100.8	102.4
37.5°	141.9	132.6	120.2	121.0	118.7	114.0	100.0	89.2	85.3	85.3	86.1
40°	131.1	121.8	107.8	100.8	101.6	101.6	86.9	75.2	71.3	70.6	72.1
42.5°	121.8	112.4	96.9	85.3	82.2	86.1	73.7	62.0	58.2	56.6	58.2
45°	115.6	105.5	87.6	74.4	65.1	69.8	60.5	51.2	46.5	46.5	45.8
47.5°	109.3	100.0	80.7	64.4	54.3	52.0	49.6	41.1	36.4	35.7	36.4
50°	103.9	94.6	72.9	55.8	45.8	40.3	40.3	32.6	29.5	27.9	28.7
52.5°	98.5	88.4	65.9	49.6	39.6	32.6	28.7	26.4	24.0	23.3	24.0
55°	90.7	80.7	58.9	42.7	34.1	27.1	22.5	21.7	20.2	18.6	20.2
57.5°	81.4	72.1	52.0	36.4	27.1	20.9	18.6	17.8	16.3	15.5	15.5
59°	76.0	67.5	48.1	31.8	24.0	18.6	17.1	16.3	14.7	13.2	14.0
60°	72.9	65.9	45.8	29.5	21.7	17.1	15.5	14.7	13.2	12.4	13.2
62.5°	64.4	58.9	40.3	24.0	17.1	12.4	10.9	11.6	10.9	10.1	10.9
65°	56.6	52.0	34.1	18.6	13.2	8.5	7.8	10.1	9.3	8.5	9.3
67.5°	50.4	45.0	28.7	14.0	9.3	4.7	5.4	8.5	8.5	7.8	8.5
70°	43.4	38.8	23.3	10.1	4.7	2.3	3.9	6.2	7.8	7.0	7.8
72.5°	35.7	30.2	17.8	7.0	2.3	0.0	2.3	5.4	7.8	7.0	7.8
75°	27.9	22.5	13.2	3.9	0.0	0.0	0.8	4.7	7.8	7.0	7.8
77.5°	20.2	16.3	7.8	0.8	0.0	0.0	0.8	4.7	7.8	7.0	7.8
80°	13.2	11.6	3.1	0.0	0.0	0.0	0.8	4.7	7.8	7.8	8.5
82.5°	8.5	6.2	0.0	0.0	0.0	0.0	1.6	6.2	8.5	9.3	9.3
85°	3.9	0.0	0.0	0.0	0.0	0.0	3.1	7.8	10.1	10.1	10.1
87.5°	0.0	0.0	0.0	0.0	0.0	1.6	5.4	9.3	11.6	11.6	11.6
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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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9
2.5°	2773.2	2822.1	2891.1	2997.3	3083.4	3219.1	3323.0	3465.0	3608.4	3651.9	3719.3
5°	2041.1	2104.0	2260.6	2403.3	2493.3	2780.2	2961.7	3247.8	3504.5	3627.8	3762.0
7.5°	1417.6	1492.1	1611.5	1810.8	2000.0	2233.5	2526.6	2853.9	3230.0	3406.0	3595.3
10°	995.0	1088.0	1256.3	1420.0	1658.0	1879.8	2169.1	2530.5	2945.4	3153.2	3390.5
12.5°	628.2	711.1	933.7	1117.5	1414.5	1672.0	1938.8	2266.0	2746.8	2960.1	3209.1
15°	359.1	428.9	532.8	768.5	1098.1	1438.6	1771.3	2151.3	2645.3	2908.2	3177.3
17.5°	267.6	286.2	332.7	466.1	766.2	1164.0	1616.9	2116.4	2714.3	3022.9	3330.0
20°	224.9	237.3	259.0	311.8	488.6	896.5	1466.5	2122.6	2937.6	3325.4	3617.0
22.5°	201.6	209.4	227.2	261.3	333.5	653.0	1290.4	2159.0	3208.3	3696.8	4033.4
25°	176.8	186.9	202.4	231.9	277.6	452.9	1116.7	2240.4	3587.5	4168.4	4484.8
27.5°	157.4	166.7	182.2	209.4	243.5	345.9	914.3	2310.2	3987.7	4643.0	4902.0
30°	138.0	147.3	162.9	184.6	215.6	280.0	696.4	2351.3	4376.2	4998.9	5198.2
32.5°	121.8	129.5	144.2	163.6	189.2	237.3	549.1	2308.7	4673.2	5322.3	5455.7
35°	105.5	114.8	127.2	145.0	167.5	202.4	456.8	2161.3	4928.4	5655.0	5703.1
37.5°	88.4	99.3	112.4	128.7	146.6	186.1	366.8	1998.5	5201.3	6069.9	5990.8
40°	74.4	84.5	96.9	114.8	131.1	170.6	282.3	1824.8	5496.0	6459.2	6304.9
42.5°	60.5	71.3	86.1	102.4	129.5	148.9	218.7	1644.9	5760.5	6798.1	6588.7
45°	48.1	57.4	72.9	93.8	128.7	128.0	169.1	1467.3	5959.8	7040.1	6800.4
47.5°	38.0	45.8	61.3	91.5	118.7	108.6	135.7	1357.1	6169.2	7258.0	6962.5
50°	30.2	38.0	52.7	95.4	103.9	93.1	114.0	1375.0	6371.6	7368.9	7029.2
52.5°	25.6	33.3	45.8	75.2	79.9	81.4	100.0	1457.2	6632.9	7487.5	7161.8
55°	22.5	29.5	38.8	52.7	62.0	72.9	91.5	1516.9	6982.7	7741.9	7454.2
57.5°	17.8	25.6	34.9	45.0	51.2	63.6	84.5	1521.5	7299.1	8068.4	7842.7
59°	16.3	23.3	32.6	42.7	45.8	57.4	79.9	1482.0	7310.7	8117.2	8021.1
60°	14.7	22.5	31.0	39.6	43.4	54.3	76.0	1436.2	7205.2	8039.7	8094.7
62.5°	12.4	19.4	27.1	31.8	37.2	45.0	65.9	1270.3	6694.2	7688.4	7958.3
65°	10.9	17.1	23.3	26.4	31.0	38.8	58.2	1016.7	6129.6	7212.2	7567.4
67.5°	10.1	15.5	20.2	22.5	27.1	35.7	52.0	718.1	5398.3	6608.1	6980.3
70°	9.3	14.7	17.8	20.9	24.0	30.2	44.2	418.8	4158.3	5548.8	5941.9
72.5°	9.3	14.0	15.5	17.8	20.9	27.1	41.1	226.4	2843.0	4232.7	4740.7
75°	9.3	13.2	14.0	15.5	18.6	24.8	36.4	118.7	1838.0	2940.7	3629.4
77.5°	9.3	12.4	14.0	14.7	17.8	21.7	31.8	74.4	1224.5	2059.7	2452.9
80°	10.1	12.4	13.2	14.7	17.1	20.2	26.4	49.6	719.7	1239.3	1492.9
82.5°	10.9	12.4	14.0	15.5	17.8	19.4	23.3	31.0	331.9	819.7	927.5
85°	11.6	13.2	14.7	16.3	18.6	19.4	21.7	22.5	54.3	369.9	500.2
87.5°	12.4	14.0	15.5	17.1	20.2	20.2	20.2	20.2	18.6	39.6	100.8
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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CATALOG NUMBER: GALN-SA3B-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9
2.5°	3804.6	3892.3	3953.5	3969.0	3924.8	3904.7	3848.8	3762.0	3709.3	3706.9
5°	4009.4	4214.9	4357.6	4381.6	4296.3	4152.1	3980.7	3759.7	3630.2	3591.4
7.5°	3974.5	4334.3	4563.9	4597.2	4453.7	4178.4	3846.5	3490.6	3349.4	3289.7
10°	3831.0	4269.9	4598.0	4650.7	4459.2	4071.4	3649.5	3252.5	3077.2	3031.5
12.5°	3708.5	4152.1	4443.7	4516.6	4371.5	3984.6	3531.7	3099.7	2912.0	2869.4
15°	3655.0	4012.5	4190.8	4228.1	4204.0	3930.3	3519.3	3076.4	2861.6	2815.1
17.5°	3708.5	3893.8	3916.3	3954.3	4007.8	3924.8	3638.7	3202.8	2971.0	2913.6
20°	3848.8	3790.7	3697.6	3713.9	3836.4	3947.3	3851.2	3482.8	3200.5	3139.3
22.5°	4087.7	3765.1	3554.2	3540.2	3695.3	4022.6	4162.9	3862.0	3534.8	3474.3
25°	4380.8	3829.5	3501.4	3471.2	3640.2	4132.7	4501.8	4326.6	3969.0	3876.8
27.5°	4700.4	3962.8	3501.4	3471.9	3635.6	4230.4	4791.9	4737.6	4418.8	4318.0
30°	4875.6	4073.0	3551.8	3518.5	3693.0	4287.0	4947.0	5102.8	4757.0	4632.1
32.5°	5032.3	4225.7	3650.3	3587.5	3813.2	4370.8	5085.8	5413.0	5026.1	4942.3
35°	5176.5	4389.4	3786.0	3713.1	3971.4	4485.5	5239.3	5738.8	5400.6	5274.2
37.5°	5335.5	4579.4	3997.7	3935.7	4235.8	4708.9	5421.6	6166.8	5769.0	5610.0
40°	5508.4	4799.6	4345.9	4319.6	4656.1	4961.7	5651.9	6623.6	6189.3	6008.6
42.5°	5684.5	5053.2	4772.5	4815.9	5132.3	5316.1	5888.4	6974.9	6533.7	6334.3
45°	5844.2	5377.4	5327.0	5541.8	5687.6	5662.0	6063.7	7222.3	6833.8	6643.0
47.5°	6045.9	5849.7	5997.8	6328.9	6332.8	6038.1	6196.3	7424.7	7092.0	6901.2
50°	6271.5	6407.2	6864.0	7201.4	7110.6	6408.0	6351.4	7664.3	7358.8	7206.0
52.5°	6532.9	7031.5	7664.3	8038.9	7827.2	6811.3	6609.7	7923.4	7782.2	7635.6
55°	6836.9	7457.3	8462.3	8760.9	8547.6	7312.3	7002.1	8274.7	8260.7	8160.7
57.5°	7180.4	7907.1	8924.5	9328.6	9138.6	7900.1	7550.3	8605.8	8553.1	8497.2
59°	7451.9	8138.2	9128.5	9547.3	9432.5	8311.9	7918.7	8812.1	8620.5	8536.8
60°	7616.3	8294.8	9203.7	9576.7	9550.4	8557.0	8152.1	8912.9	8619.8	8503.4
62.5°	8104.1	8568.6	9175.0	9445.7	9548.8	9026.9	8836.9	9023.8	8460.0	8289.4
65°	8277.8	8477.8	8699.6	8666.3	8754.7	9002.9	9274.3	8902.1	8118.8	7876.1
67.5°	7939.6	7482.9	7561.2	7338.6	7295.2	8004.0	9096.7	8306.5	7451.1	7154.1
70°	6692.6	5732.6	5693.0	5795.4	5514.6	6480.1	8168.4	7159.5	6349.1	6012.5
72.5°	5268.0	4051.3	3717.8	4094.7	4086.1	4943.9	6785.7	5080.3	4289.3	4260.6
75°	4142.8	2820.5	2475.4	2536.7	2654.6	3579.0	5404.5	3226.1	2641.4	2407.2
77.5°	2781.0	1998.5	1864.3	1789.1	1916.3	2297.8	3419.2	1749.5	1481.2	1402.9
80°	1603.0	1451.8	1648.7	1496.7	1565.0	1447.9	1700.7	802.7	666.2	721.2
82.5°	1043.1	826.7	881.0	654.5	894.9	902.7	546.0	237.3	200.9	213.3
85°	652.2	387.8	217.9	155.1	308.7	567.7	170.6	14.7	17.1	14.7
87.5°	169.1	64.4	27.1	40.3	49.6	44.2	39.6	2.3	0.8	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)