

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: P530317

Luminaire Tested: **GALN-SA5C-735-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530317
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-SA5C-735-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA 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: 18132 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

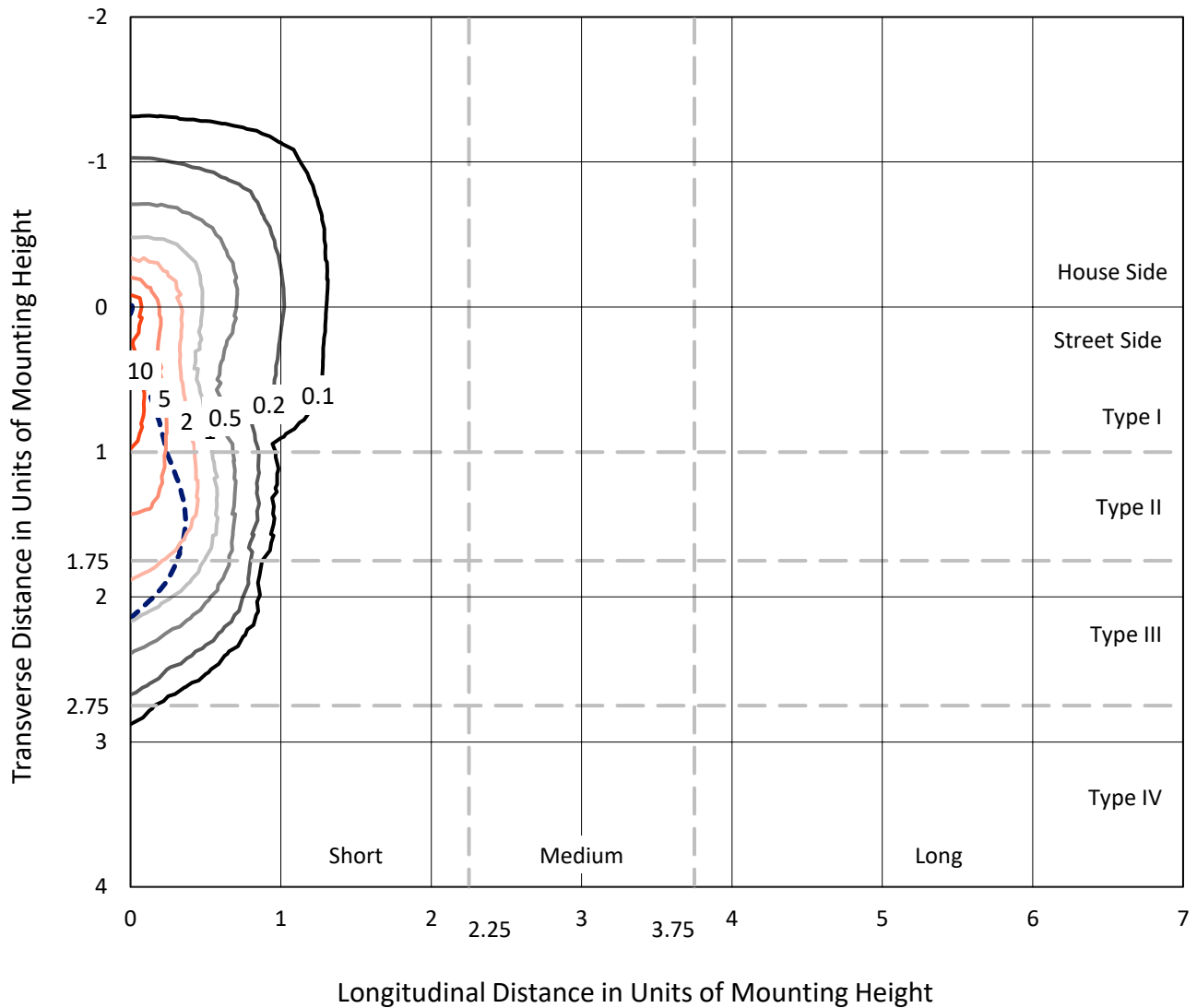
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

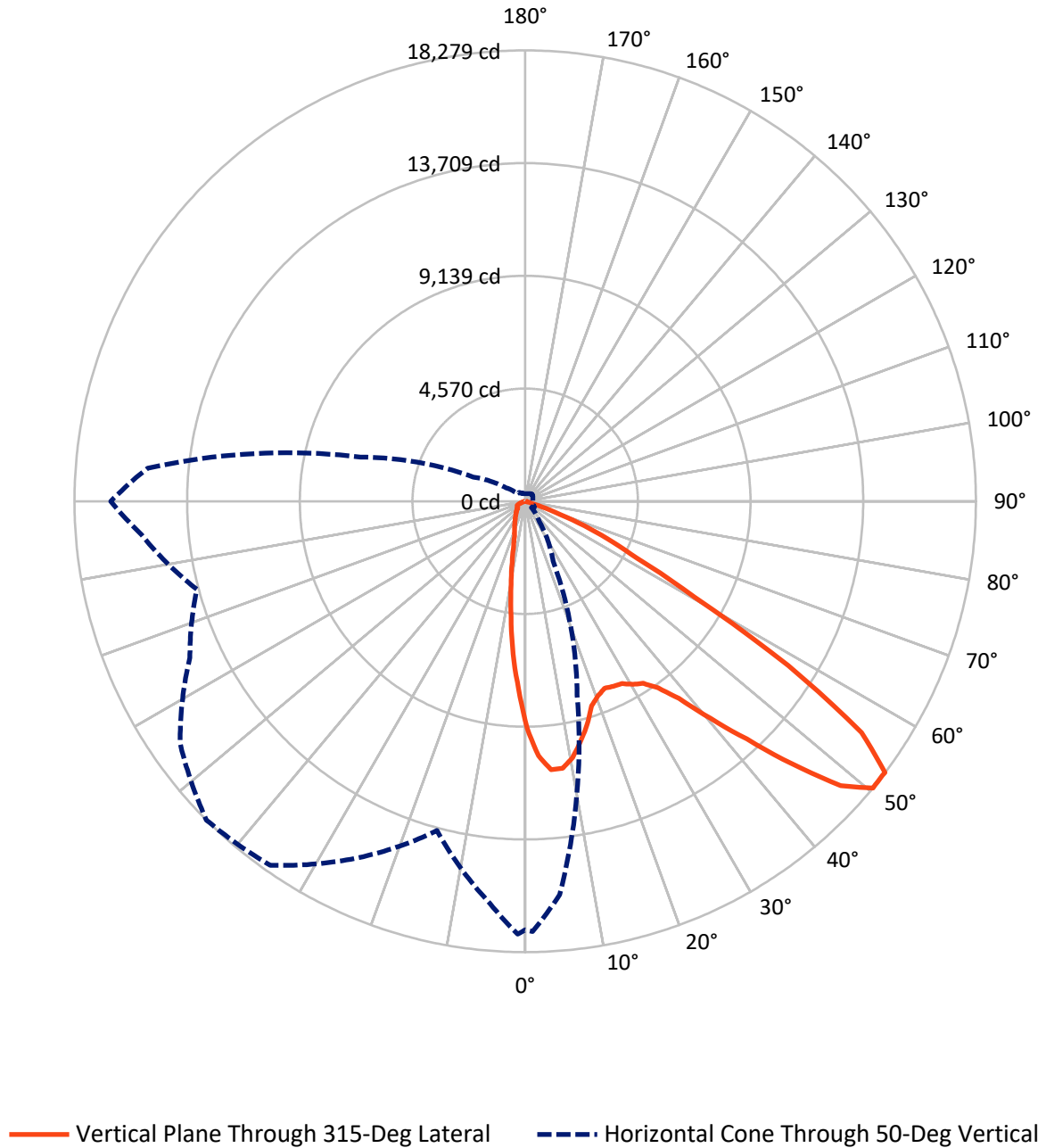
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 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	3631.8	0.0	3631.8
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	14500.2	0.0	14500.2
	% Fixture	80.0	0.0	80.0
Total	Lumens	18132.0	0.0	18132.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	670.2	3.7
10°-20°	1332.1	7.3
20°-30°	2001.2	11.0
30°-40°	3003.7	16.6
40°-50°	4221.5	23.3
50°-60°	4553.6	25.1
60°-70°	2114.2	11.7
70°-80°	198.9	1.1
80°-90°	36.7	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°	18132.0	100.0
0°-180°	18132.0	100.0

Coefficient of Utilization



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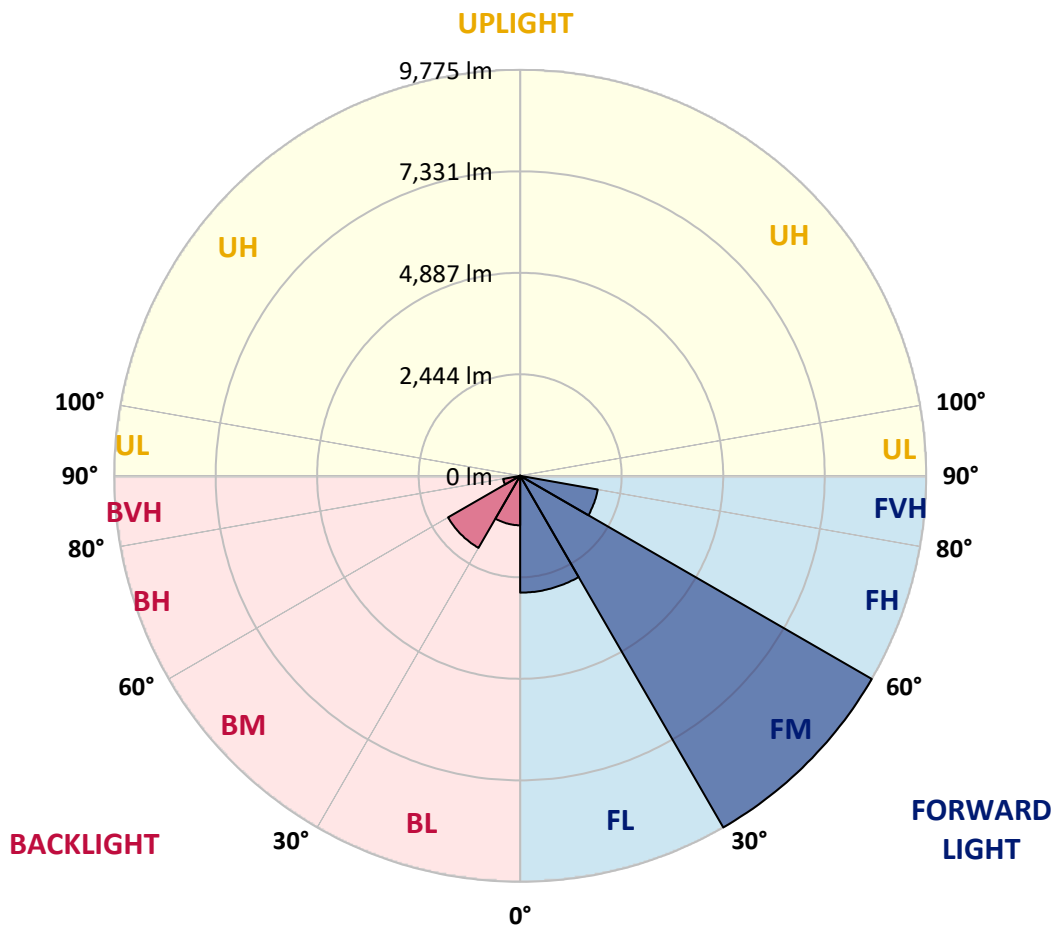
CATALOG NUMBER: GALN-SA5C-735-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2813.0	15.5			
FM (30°-60°)	9774.5	53.9			
FH (60°-80°)	1896.1	10.5			G2/5000
FVH (80°-90°)	16.5	0.1			G1/100
BL (0°-30°)	1190.4	6.6	B3/2500		
BM (30°-60°)	2004.2	11.1	B2/2500		
BH (60°-80°)	417.0	2.3	B1/500		G1/500
BVH (80°-90°)	20.2	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9195.2	9195.2	9195.2	9195.2	9195.2	9195.2	9195.2	9195.2	9195.2	9195.2	9195.2
2.5°	9558.6	9411.1	9224.0	9069.3	8839.1	8375.0	8249.1	8098.0	7972.1	7803.0	7565.5
5°	8691.6	8644.8	8558.5	7975.7	7554.7	6993.5	6533.1	6338.8	6083.4	5874.7	5723.6
7.5°	8029.6	7842.5	7569.1	6982.7	6310.0	5709.2	5198.4	4899.8	4561.6	4446.5	4241.5
10°	7320.9	7364.1	6961.2	6137.3	5324.3	4838.6	4522.1	4234.3	3928.5	3727.0	3435.6
12.5°	7094.3	6954.0	6644.6	5626.5	4932.2	4478.9	4094.0	3737.8	3414.0	3090.3	2809.6
15°	7241.8	7025.9	6594.2	5518.6	4630.0	4065.2	3583.1	3101.0	2802.5	2388.7	2097.3
17.5°	7770.6	7597.9	7018.7	5633.7	4475.3	3669.4	2953.5	2457.1	2000.2	1626.1	1478.6
20°	8652.0	8407.4	7680.7	5781.2	4245.0	3191.0	2395.9	1784.4	1352.7	1194.4	1111.6
22.5°	9515.4	9382.3	8464.9	6065.4	4040.0	2766.5	1798.7	1201.6	1010.9	982.1	928.2
25°	11159.4	10760.1	9662.9	6579.8	3881.7	2367.2	1356.3	967.7	856.2	834.6	841.8
27.5°	12138.0	11803.4	10770.9	6921.6	3705.4	2061.4	1147.6	888.6	813.0	766.3	748.3
30°	13076.9	12688.4	11321.3	7123.0	3327.7	1737.6	1018.1	852.6	834.6	766.3	744.7
32.5°	13800.0	13418.7	12116.4	7425.2	3173.0	1528.9	838.2	665.5	618.8	611.6	676.3
35°	14908.0	14501.5	12796.3	7590.7	3054.3	1421.0	726.7	593.6	539.6	518.0	521.6
37.5°	15940.5	15663.5	13425.9	7655.5	2928.4	1388.6	651.1	532.4	485.7	471.3	467.7
40°	16803.9	16185.2	14023.1	7723.8	2874.4	1327.5	604.4	485.7	453.3	431.7	431.7
42.5°	17199.6	16570.1	14692.2	7684.3	2860.0	1230.3	604.4	446.1	420.9	399.3	395.7
45°	17113.3	16857.9	14990.8	7666.3	2860.0	1133.2	550.4	435.3	399.3	370.5	363.3
47.5°	17336.4	17001.8	15364.9	7741.8	2802.5	1064.9	464.1	456.9	377.7	341.8	334.6
50°	17375.9	17440.7	16016.1	8133.9	2676.5	978.5	363.3	449.7	363.3	309.4	302.2
52°	17634.9	17232.0	16213.9	8342.6	2543.4	913.8	305.8	384.9	349.0	287.8	280.6
52.5°	17278.8	17541.4	16260.7	8418.1	2557.8	870.6	295.0	377.7	341.8	287.8	269.8
55°	16879.5	17131.3	16070.0	8580.0	2345.6	683.5	230.2	273.4	309.4	251.8	241.0
57.5°	14670.6	14926.0	13965.5	7856.9	1910.3	482.1	190.7	205.1	273.4	233.8	223.0
60°	13040.9	12857.5	11720.7	6554.6	1356.3	269.8	151.1	158.3	298.6	215.8	212.3
62.5°	11918.5	11526.4	9796.0	5061.7	827.4	179.9	118.7	122.3	230.2	201.5	201.5
65°	8817.5	8378.6	6507.9	3061.5	406.5	125.9	89.9	97.1	143.9	172.7	172.7
67.5°	5032.9	4863.8	3144.2	1381.4	169.1	79.1	68.4	75.5	111.5	140.3	133.1
70°	2313.2	2075.8	1208.8	291.4	79.1	54.0	54.0	61.2	89.9	104.3	97.1
72.5°	676.3	640.4	295.0	46.8	32.4	32.4	36.0	46.8	68.4	79.1	71.9
75°	50.4	32.4	21.6	14.4	14.4	21.6	28.8	46.8	68.4	75.5	61.2
77.5°	3.6	7.2	3.6	3.6	10.8	21.6	32.4	57.6	89.9	93.5	68.4
80°	3.6	3.6	0.0	3.6	10.8	21.6	36.0	64.8	100.7	107.9	57.6
82.5°	0.0	0.0	0.0	3.6	14.4	28.8	43.2	68.4	93.5	115.1	61.2
85°	0.0	0.0	0.0	3.6	21.6	39.6	50.4	18.0	10.8	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°	9195.2	9195.2	9195.2	9195.2	9195.2	9195.2	9195.2	9195.2	9195.2	9195.2	9195.2
2.5°	7734.6	7641.1	7605.1	7637.5	7626.7	7615.9	7813.8	7770.6	7763.4	7828.2	7813.8
5°	5806.4	5640.9	6094.2	5910.7	6101.4	6216.5	6238.1	6248.9	6382.0	6241.7	6425.1
7.5°	4137.1	4180.3	4176.7	4299.0	4518.5	4712.7	4827.8	4737.9	4730.7	4712.7	4633.6
10°	3306.1	3230.6	3216.2	3187.4	3255.7	3421.2	3561.5	3450.0	3370.9	3478.8	3446.4
12.5°	2701.7	2597.4	2539.8	2424.7	2428.3	2539.8	2539.8	2539.8	2619.0	2680.1	2726.9
15°	2072.2	1985.8	1985.8	1870.7	1845.5	1849.1	1906.7	1913.9	2039.8	2075.8	2093.7
17.5°	1449.8	1403.0	1457.0	1503.8	1475.0	1482.2	1503.8	1510.9	1528.9	1514.5	1550.5
20°	1115.2	1108.0	1122.4	1205.2	1266.3	1302.3	1277.1	1241.1	1219.6	1169.2	1169.2
22.5°	946.1	960.5	985.7	1054.1	1133.2	1154.8	1126.0	1043.3	978.5	971.3	974.9
25°	841.8	856.2	895.8	938.9	982.1	1018.1	989.3	928.2	892.2	859.8	859.8
27.5°	777.1	784.3	805.8	838.2	874.2	903.0	892.2	859.8	820.2	805.8	773.5
30°	726.7	737.5	762.7	769.9	802.2	816.6	798.6	791.4	766.3	748.3	737.5
32.5°	701.5	697.9	715.9	723.1	726.7	737.5	715.9	726.7	723.1	694.3	683.5
35°	528.8	557.6	604.4	644.0	654.7	669.1	665.5	651.1	611.6	579.2	539.6
37.5°	474.9	492.9	518.0	550.4	593.6	611.6	604.4	568.4	521.6	500.1	492.9
40°	438.9	449.7	471.3	492.9	536.0	568.4	543.2	510.8	474.9	456.9	446.1
42.5°	406.5	410.1	420.9	442.5	474.9	525.2	482.1	438.9	424.5	413.7	406.5
45°	370.5	370.5	384.9	395.7	431.7	478.5	435.3	395.7	388.5	381.3	377.7
47.5°	341.8	345.4	352.6	366.9	395.7	428.1	399.3	366.9	349.0	345.4	338.2
50°	305.8	309.4	323.8	338.2	374.1	392.1	374.1	338.2	320.2	309.4	309.4
52°	277.0	287.8	302.2	331.0	356.2	384.9	363.3	323.8	302.2	291.4	284.2
52.5°	273.4	280.6	295.0	327.4	356.2	381.3	359.7	320.2	295.0	287.8	280.6
55°	244.6	255.4	280.6	320.2	352.6	381.3	352.6	316.6	280.6	262.6	255.4
57.5°	233.8	241.0	273.4	323.8	349.0	381.3	352.6	316.6	280.6	248.2	241.0
60°	223.0	237.4	273.4	313.0	345.4	384.9	356.2	313.0	273.4	233.8	233.8
62.5°	212.3	223.0	269.8	305.8	331.0	370.5	341.8	305.8	262.6	223.0	219.4
65°	183.5	201.5	237.4	255.4	284.2	320.2	291.4	266.2	230.2	197.9	194.3
67.5°	140.3	147.5	176.3	197.9	215.8	248.2	233.8	201.5	176.3	151.1	151.1
70°	97.1	104.3	125.9	136.7	154.7	172.7	161.9	136.7	118.7	104.3	100.7
72.5°	68.4	71.9	79.1	86.3	93.5	100.7	97.1	79.1	68.4	64.8	61.2
75°	54.0	61.2	64.8	61.2	57.6	54.0	54.0	46.8	39.6	36.0	36.0
77.5°	54.0	57.6	54.0	46.8	39.6	36.0	32.4	28.8	21.6	18.0	21.6
80°	46.8	46.8	46.8	39.6	36.0	32.4	28.8	25.2	21.6	18.0	18.0
82.5°	50.4	50.4	46.8	39.6	39.6	32.4	32.4	28.8	25.2	18.0	18.0
85°	0.0	0.0	0.0	7.2	18.0	32.4	32.4	28.8	25.2	21.6	21.6
87.5°	0.0	0.0	0.0	0.0	3.6	7.2	14.4	18.0	21.6	21.6	21.6
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°	9195.2	9195.2	9195.2	9195.2	9195.2	9195.2	9195.2	9195.2	9195.2	9195.2	9195.2
2.5°	7943.3	8080.0	8339.0	8598.0	8756.3	8943.4	9281.5	9461.4	9695.3	9810.4	10037.0
5°	6400.0	6723.7	6838.8	7133.8	7450.4	7767.0	8270.7	8824.7	9285.1	9601.7	10011.8
7.5°	4669.6	4745.1	5191.2	5389.1	5907.1	6482.7	7169.8	7867.7	8450.5	8968.6	9281.5
10°	3500.4	3777.4	4058.0	4435.7	4853.0	5446.6	6105.0	6874.8	7630.3	8148.3	8544.1
12.5°	2813.2	3032.7	3406.8	3813.3	4327.8	4719.9	5381.9	6144.5	7123.0	7630.3	8151.9
15°	2129.7	2410.3	2834.8	3255.7	3799.0	4212.7	4881.8	5842.3	7101.5	7799.4	8249.1
17.5°	1579.3	1770.0	2151.3	2622.6	3176.6	3759.4	4662.4	5810.0	7342.5	8173.5	8637.6
20°	1208.8	1273.5	1514.5	1935.5	2536.2	3298.9	4306.2	5950.3	8054.8	9083.7	9555.0
22.5°	978.5	1007.3	1100.8	1392.2	1975.0	2896.0	4137.1	6047.4	8857.0	10173.7	10803.3
25°	852.6	845.4	906.6	1032.5	1543.3	2518.2	3921.3	6414.3	9839.2	11454.4	12019.2
27.5°	777.1	777.1	805.8	895.8	1280.7	2273.6	3784.6	6677.0	10828.5	12580.5	12886.2
30°	737.5	744.7	827.4	856.2	1064.9	1982.2	3557.9	6943.2	11774.6	13300.0	13720.9
32.5°	683.5	654.7	636.8	708.7	895.8	1719.6	3331.3	7054.7	12540.9	14181.3	14541.1
35°	525.2	510.8	532.4	586.4	769.9	1496.6	3079.5	7180.6	13422.3	15203.0	15275.0
37.5°	474.9	471.3	485.7	532.4	647.5	1302.3	2899.6	7148.2	14095.0	16048.4	15854.2
40°	438.9	438.9	449.7	489.3	579.2	1165.6	2712.5	7119.5	14746.2	16998.2	16429.8
42.5°	410.1	410.1	428.1	453.3	550.4	1075.7	2572.2	7079.9	15293.0	17581.0	16767.9
45°	370.5	381.3	410.1	435.3	557.6	1014.5	2467.9	6928.8	15480.0	17573.8	16606.1
47.5°	341.8	356.2	384.9	420.9	503.6	996.5	2395.9	6795.7	15415.3	17142.1	16098.8
50°	309.4	327.4	366.9	428.1	428.1	960.5	2320.4	6914.4	15368.5	16807.5	15613.1
52°	287.8	302.2	352.6	417.3	374.1	885.0	2273.6	7144.6	15559.2	16764.3	15397.3
52.5°	284.2	295.0	341.8	410.1	356.2	870.6	2241.2	7198.6	15620.3	16656.4	15544.8
55°	251.8	266.2	313.0	320.2	291.4	715.9	2136.9	7320.9	15318.2	16444.2	15404.5
57.5°	237.4	244.6	277.0	262.6	251.8	539.6	1838.3	7130.2	13605.7	14605.8	14332.4
60°	219.4	226.6	259.0	205.1	212.3	377.7	1381.4	6191.3	10925.6	12170.3	12663.2
62.5°	212.3	208.7	244.6	165.5	179.9	273.4	974.9	5032.9	8418.1	10019.0	10871.6
65°	187.1	183.5	176.3	140.3	154.7	212.3	582.8	3284.5	5932.3	7579.9	8047.6
67.5°	143.9	151.1	129.5	111.5	129.5	165.5	323.8	1471.4	3111.8	4547.2	4925.0
70°	100.7	107.9	104.3	97.1	115.1	136.7	187.1	503.6	1287.9	2388.7	2633.4
72.5°	61.2	75.5	79.1	82.7	100.7	118.7	133.1	161.9	341.8	845.4	1050.5
75°	36.0	50.4	61.2	71.9	82.7	100.7	111.5	115.1	118.7	158.3	255.4
77.5°	25.2	36.0	54.0	68.4	82.7	100.7	118.7	125.9	118.7	111.5	118.7
80°	21.6	36.0	50.4	64.8	86.3	104.3	118.7	118.7	115.1	100.7	107.9
82.5°	21.6	36.0	54.0	68.4	82.7	100.7	115.1	118.7	107.9	100.7	104.3
85°	25.2	39.6	57.6	71.9	89.9	82.7	75.5	61.2	57.6	46.8	50.4
87.5°	25.2	36.0	36.0	39.6	43.2	43.2	43.2	39.6	32.4	28.8	28.8
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-SA5C-735-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9195.2	9195.2	9195.2	9195.2	9195.2	9195.2	9195.2	9195.2	9195.2	9195.2
2.5°	10047.8	10335.6	10324.8	10332.0	10288.8	9997.5	9857.1	9501.0	9601.7	9558.6
5°	10432.7	10717.0	10961.6	10932.8	10601.8	10206.1	9619.7	9065.7	8914.6	8691.6
7.5°	10047.8	10731.3	10958.0	10925.6	10436.3	9929.1	8993.7	8439.7	8177.1	8029.6
10°	9436.2	10227.7	10508.3	10565.9	10234.9	9465.0	8605.2	7716.6	7576.3	7320.9
12.5°	9087.3	9662.9	9835.6	9990.3	9875.1	9299.5	8310.2	7457.6	7263.4	7094.3
15°	8803.1	9144.8	9216.8	9393.1	9461.4	9152.0	8464.9	7738.2	7259.8	7241.8
17.5°	9065.7	8925.4	8662.8	8716.7	8932.6	9155.6	8864.2	8292.2	7828.2	7770.6
20°	9501.0	8882.2	8288.6	8421.7	8601.6	9285.1	9468.6	9065.7	8799.5	8652.0
22.5°	10001.0	8957.8	8169.9	8234.7	8576.4	9576.5	10447.1	10224.1	9727.6	9515.4
25°	10925.6	9166.4	8263.5	8306.6	8774.3	9983.1	11332.1	11497.6	11202.6	11159.4
27.5°	11828.6	9706.1	8468.5	8371.4	8875.0	10378.8	11868.2	12756.7	12238.7	12138.0
30°	12289.1	10144.9	8774.3	8608.8	9292.3	10619.8	12191.9	13577.0	13123.7	13076.9
32.5°	12994.2	10544.3	9011.7	8799.5	9526.2	10918.4	12796.3	14472.7	14033.8	13800.0
35°	13289.2	10979.6	9533.4	9285.1	10195.3	11335.7	13105.7	15271.4	15134.7	14908.0
37.5°	13857.6	11447.2	10148.5	10134.2	11004.8	11878.9	13663.3	16357.8	16332.6	15940.5
40°	13904.3	11958.1	11119.9	11573.2	12256.7	12825.1	14152.6	16660.0	17070.1	16803.9
42.5°	13976.3	12853.9	12799.9	13174.0	13760.4	13638.1	14170.6	16732.0	17357.9	17199.6
45°	14008.7	13749.6	14508.7	15199.4	15444.1	14703.0	14001.5	16595.3	17509.0	17113.3
47.5°	13749.6	14519.5	15890.2	17224.8	17296.8	15357.7	13929.5	16455.0	17599.0	17336.4
50°	13785.6	15001.6	17084.5	18278.9	18016.3	15936.9	13818.0	16368.6	17552.2	17375.9
52°	13699.3	15012.4	17253.6	18257.3	18073.8	15616.7	13627.3	16037.7	17509.0	17634.9
52.5°	13796.4	14947.6	17077.3	18271.7	18034.3	15775.0	13602.1	16221.1	17534.2	17278.8
55°	13461.8	14177.7	16044.8	16552.1	16516.1	14318.0	12828.7	15613.1	16875.9	16879.5
57.5°	12166.7	12289.1	12584.1	12573.3	12407.8	11256.6	10972.4	14357.6	15044.7	14670.6
60°	10720.5	8997.3	8202.3	7878.5	7695.1	7508.0	9706.1	13134.5	13199.2	13040.9
62.5°	9263.6	6238.1	5180.4	5090.5	5133.6	5817.2	9382.3	12648.8	12260.3	11918.5
65°	7475.6	4547.2	3763.0	3644.3	4065.2	4802.7	7594.3	9698.9	9101.7	8817.5
67.5°	4694.7	3316.9	2543.4	2320.4	2827.6	3306.1	4989.7	6094.2	5425.0	5032.9
70°	2784.5	1852.7	1151.2	1032.5	1162.0	1762.8	2795.3	3039.9	2514.7	2313.2
72.5°	1097.2	679.9	320.2	273.4	284.2	618.8	1028.9	1003.7	759.1	676.3
75°	295.0	205.1	111.5	89.9	75.5	115.1	165.5	107.9	39.6	50.4
77.5°	136.7	122.3	97.1	75.5	57.6	43.2	21.6	7.2	7.2	3.6
80°	118.7	104.3	89.9	75.5	57.6	36.0	18.0	3.6	3.6	3.6
82.5°	111.5	97.1	82.7	68.4	54.0	36.0	18.0	3.6	0.0	0.0
85°	46.8	61.2	68.4	64.8	57.6	36.0	18.0	3.6	0.0	0.0
87.5°	25.2	21.6	18.0	14.4	10.8	7.2	7.2	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)