

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: P454380

Luminaire Tested: **GALN-SA5C-727-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454380
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-SA5C-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA 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: 21146 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

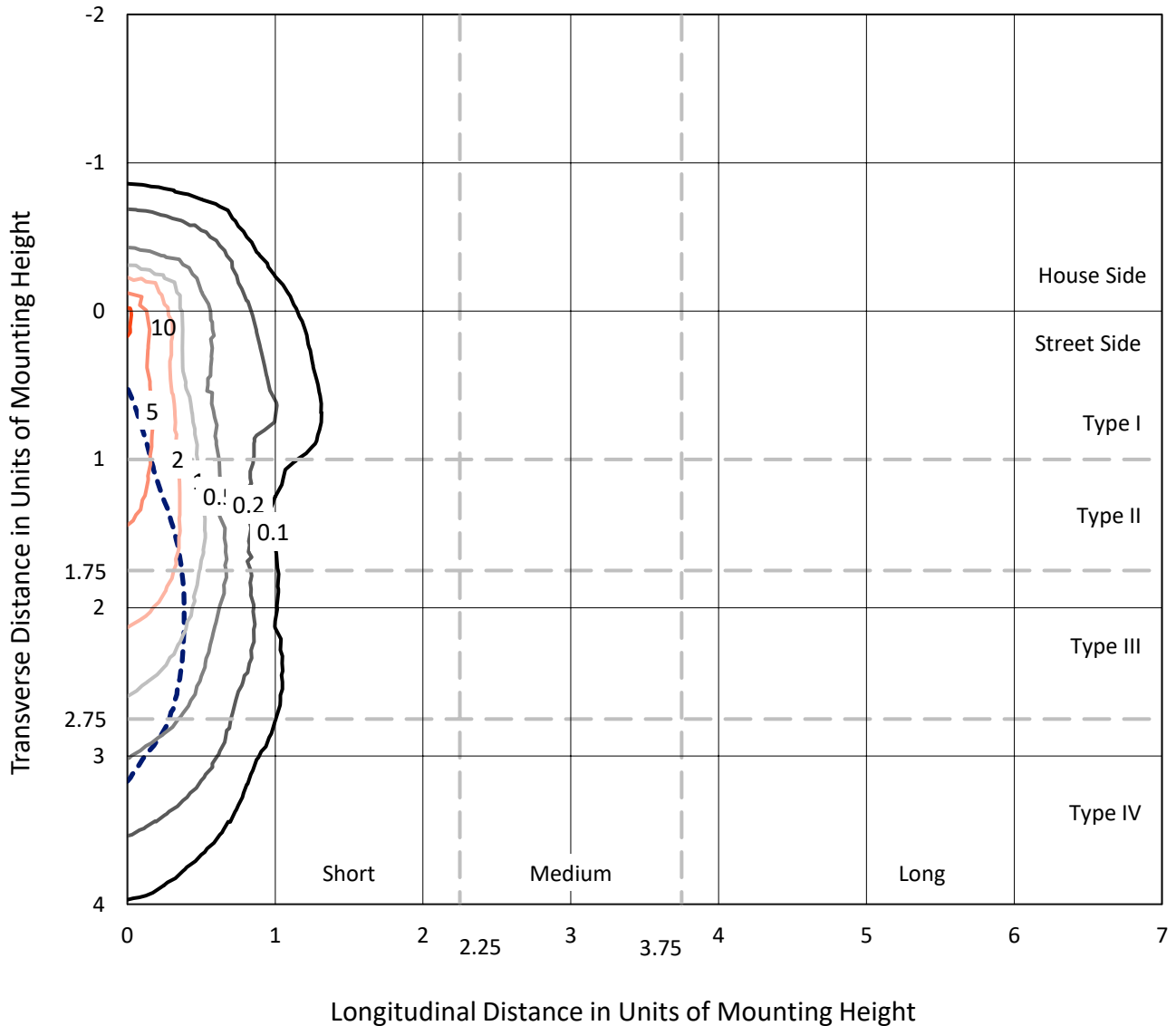
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454380
 CATALOG NUMBER: GALN-SA5C-727-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

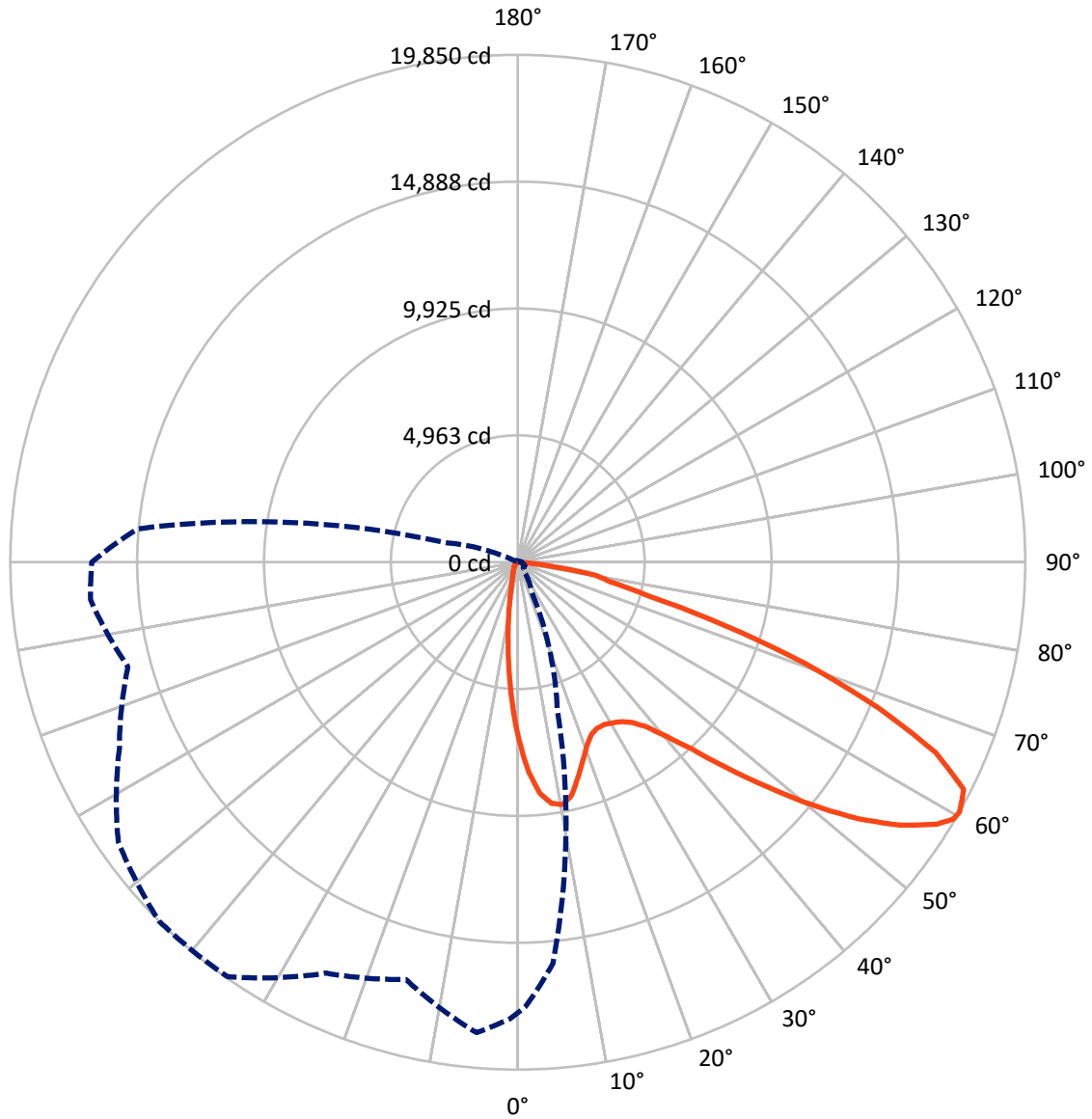
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P454380
CATALOG NUMBER: GALN-SA5C-727-U-SLR-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P454380
 CATALOG NUMBER: GALN-SA5C-727-U-SLR-HSS

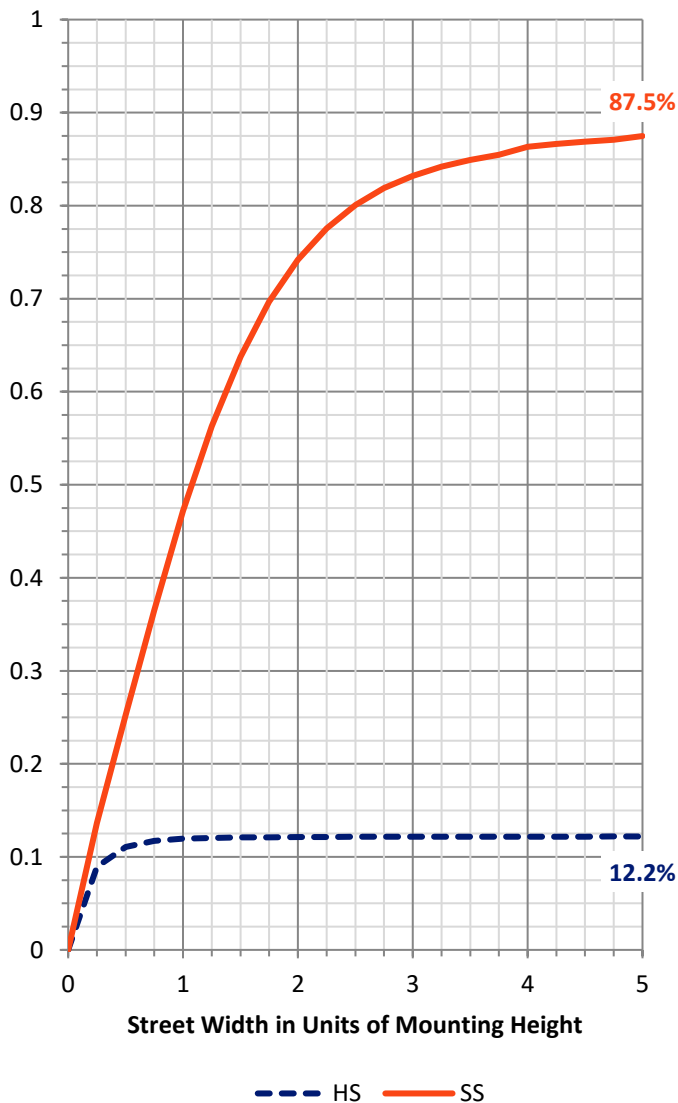
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2608.1	0.0	2608.1
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	18537.9	0.0	18537.9
	% Fixture	87.7	0.0	87.7
Total	Lumens	21146.0	0.0	21146.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.8	2.5
10°-20°	1032.4	4.9
20°-30°	1513.7	7.2
30°-40°	2251.2	10.6
40°-50°	3276.2	15.5
50°-60°	4724.5	22.3
60°-70°	5196.5	24.6
70°-80°	2327.6	11.0
80°-90°	304.1	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°	21146.0	100.0
0°-180°	21146.0	100.0



REPORT NUMBER: P454380

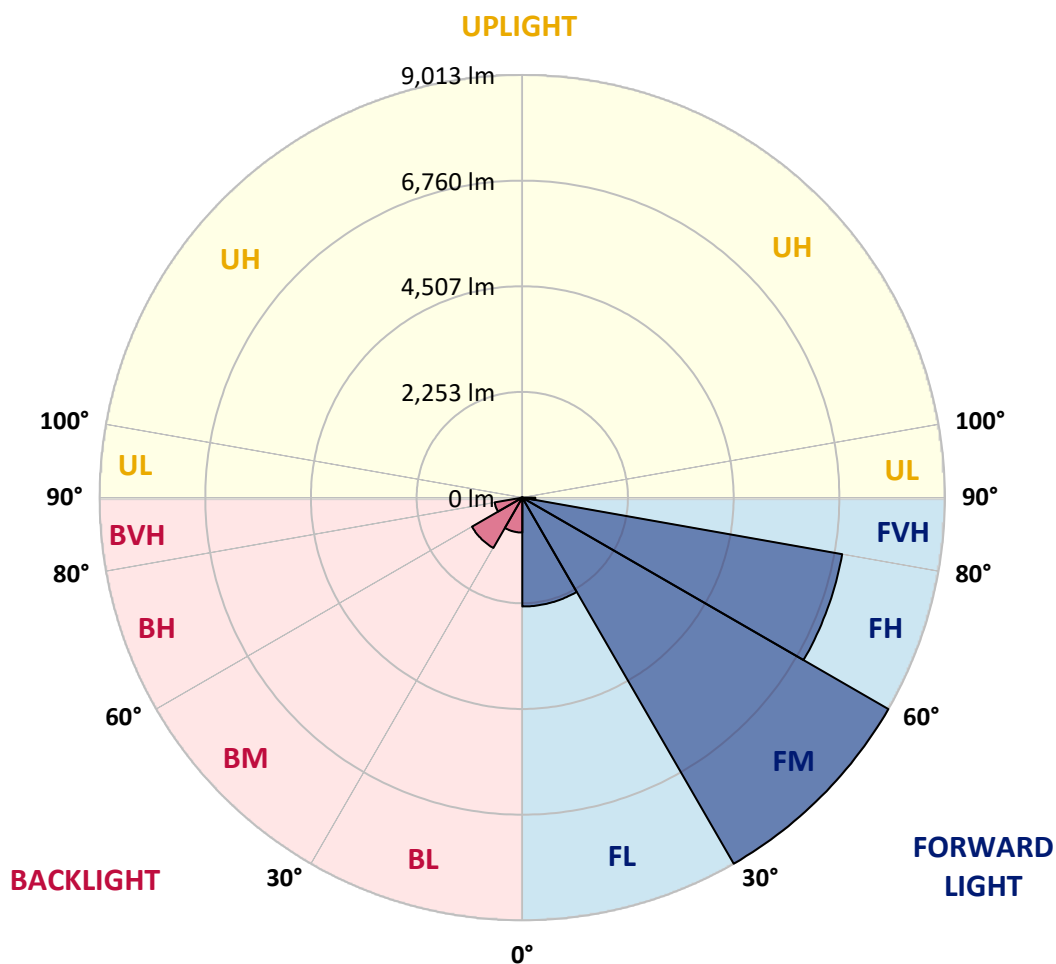
CATALOG NUMBER: GALN-SA5C-727-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2320.7	11.0			
FM (30°-60°)	9013.1	42.6			
FH (60°-80°)	6925.9	32.8			G3/7500
FVH (80°-90°)	278.1	1.3			G3/500
BL (0°-30°)	745.2	3.5	B2/1000		
BM (30°-60°)	1238.8	5.9	B2/2500		
BH (60°-80°)	598.1	2.8	B2/1000		G2/1000
BVH (80°-90°)	26.0	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-G3

Type IV Short





REPORT NUMBER: P454380
 CATALOG NUMBER: GALN-SA5C-727-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6989.1	6989.1	6989.1	6989.1	6989.1	6989.1	6989.1	6989.1	6989.1	6989.1	6989.1
2.5°	7683.5	7649.7	7572.5	7337.9	7133.7	6866.9	6596.8	6384.7	6254.5	6015.0	5905.7
5°	7444.0	7460.0	7236.6	6754.4	6217.5	5851.0	5450.8	5132.5	4782.1	4560.2	4327.2
7.5°	6818.7	6786.5	6543.8	5871.9	5219.3	4688.8	4182.5	3771.0	3512.2	3304.9	3131.3
10°	6283.4	6259.3	5949.1	5084.3	4383.4	3986.4	3644.0	3284.0	3005.9	2702.1	2459.4
12.5°	5947.4	5892.8	5535.9	4632.6	4061.9	3692.2	3319.3	2944.8	2560.6	2253.6	1959.4
15°	5834.9	5756.2	5359.1	4476.7	3856.2	3386.8	2919.1	2488.3	2046.2	1707.1	1485.3
17.5°	6039.1	5908.9	5486.1	4449.3	3610.3	2988.2	2412.7	1851.7	1392.0	1133.2	996.6
20°	6506.8	6357.3	5807.6	4422.0	3337.0	2541.3	1834.1	1308.4	962.8	821.4	745.8
22.5°	7201.2	6995.5	6283.4	4465.4	3084.6	2105.7	1324.5	924.3	765.1	676.7	623.7
25°	8035.5	7863.5	6886.2	4619.7	2885.3	1763.3	1023.9	755.5	644.6	589.9	549.7
27.5°	8950.1	8675.2	7665.8	4804.6	2703.7	1498.1	898.5	675.1	573.8	524.0	503.1
30°	9601.1	9387.3	8318.4	4933.2	2477.0	1298.8	821.4	665.5	575.5	516.0	477.4
32.5°	10244.1	9970.8	8864.9	4992.6	2311.5	1160.6	710.5	580.3	504.7	474.2	435.6
35°	10932.1	10645.9	9409.8	4960.5	2187.7	1068.9	644.6	517.6	432.4	381.0	342.4
37.5°	11628.1	11325.9	9951.5	4844.8	2110.5	1032.0	593.1	491.9	408.3	355.2	313.4
40°	12454.3	12050.8	10459.5	4749.9	2030.2	1012.7	559.4	475.8	390.6	334.3	292.6
42.5°	13129.4	12745.2	10940.1	4700.1	1975.5	967.7	559.4	462.9	379.4	316.7	273.3
45°	13769.1	13370.5	11459.3	4740.3	1953.0	911.4	565.8	461.3	371.3	303.8	260.4
47.5°	14304.4	13958.8	11992.9	4891.4	1924.1	850.3	532.1	483.8	366.5	292.6	247.5
50°	14936.1	14601.8	12698.6	5196.8	1872.6	789.2	490.3	520.8	364.9	282.9	236.3
52.5°	15826.6	15465.0	13672.7	5544.0	1790.7	696.0	451.7	516.0	358.5	266.8	225.0
55°	16914.9	16622.3	14801.1	5960.3	1678.1	591.5	390.6	458.1	339.2	239.5	205.7
57.5°	17612.5	17363.3	15646.6	6140.3	1506.2	483.8	344.0	384.2	310.2	213.8	183.2
59°	17694.5	17469.4	15823.4	6080.9	1393.6	442.0	321.5	329.5	302.2	199.3	170.4
60°	17625.3	17392.3	15752.7	5965.1	1289.1	413.1	302.2	292.6	303.8	191.3	160.7
62.5°	17181.7	16783.1	15066.3	5378.4	1126.8	379.4	268.4	239.5	268.4	172.0	143.1
65°	16324.9	15727.0	13708.1	4552.2	1062.5	360.1	228.3	200.9	204.1	151.1	123.8
67.5°	14828.4	14074.6	11899.7	3698.7	1035.2	361.7	192.9	180.0	157.5	128.6	109.3
70°	12462.3	11710.0	9548.1	3042.8	1022.3	361.7	164.0	154.3	131.8	107.7	94.8
72.5°	8831.2	8021.0	6440.9	2390.2	921.1	360.1	139.8	139.8	107.7	90.0	77.2
75°	4989.4	4995.9	4049.1	1691.0	765.1	297.4	112.5	110.9	78.8	69.1	57.9
77.5°	2907.8	2856.4	2729.4	726.6	355.2	135.0	78.8	67.5	54.7	49.8	41.8
80°	1494.9	1229.7	1197.5	263.6	127.0	85.2	54.7	38.6	35.4	32.1	28.9
82.5°	442.0	443.6	395.4	106.1	70.7	56.3	27.3	20.9	19.3	17.7	17.7
85°	30.5	19.3	22.5	32.1	43.4	22.5	1.6	4.8	4.8	6.4	8.0
87.5°	3.2	1.6	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



REPORT NUMBER: P454380

CATALOG NUMBER: GALN-SA5C-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6989.1	6989.1	6989.1	6989.1	6989.1	6989.1	6989.1	6989.1	6989.1	6989.1	6989.1
2.5°	5785.1	5855.8	5724.0	5727.2	5617.9	5653.3	5524.7	5566.5	5490.9	5548.8	5719.2
5°	4352.9	4369.0	4262.9	4229.1	4245.2	4311.1	4336.8	4219.5	4269.3	4171.3	4164.8
7.5°	3067.0	3086.2	3025.2	3017.1	3132.9	3105.5	3155.4	3034.8	2920.7	2970.5	2878.9
10°	2382.2	2301.8	2176.4	2141.1	2118.6	2133.0	2133.0	2023.7	2007.7	1964.3	2030.2
12.5°	1880.7	1782.6	1663.7	1502.9	1462.8	1459.5	1400.1	1303.6	1273.1	1236.1	1290.8
15°	1366.3	1326.1	1226.5	1136.4	1044.8	1027.1	930.7	851.9	747.4	733.0	728.2
17.5°	961.2	901.8	900.2	848.7	795.7	760.3	670.3	580.3	540.1	535.3	535.3
20°	720.1	699.2	665.5	659.0	643.0	602.8	522.4	474.2	454.9	456.5	462.9
22.5°	606.0	591.5	561.0	546.5	540.1	504.7	445.3	413.1	403.5	403.5	405.1
25°	541.7	528.8	495.1	472.6	464.5	438.8	392.2	368.1	360.1	360.1	360.1
27.5°	493.5	477.4	442.0	422.8	408.3	379.4	350.4	326.3	318.3	318.3	319.9
30°	459.7	442.0	409.9	384.2	361.7	336.0	311.8	290.9	281.3	279.7	281.3
32.5°	414.7	398.6	366.5	350.4	324.7	294.2	274.9	255.6	245.9	247.5	245.9
35°	323.1	318.3	295.8	300.6	286.1	260.4	242.7	221.8	210.6	209.0	212.2
37.5°	294.2	274.9	249.1	250.8	245.9	236.3	207.4	184.9	176.8	176.8	178.4
40°	271.7	252.4	223.4	209.0	210.6	210.6	180.0	155.9	147.9	146.3	149.5
42.5°	252.4	233.1	200.9	176.8	170.4	178.4	152.7	128.6	120.6	117.3	120.6
45°	239.5	218.6	181.6	154.3	135.0	144.7	125.4	106.1	96.4	96.4	94.8
47.5°	226.6	207.4	167.2	133.4	112.5	107.7	102.9	85.2	75.5	73.9	75.5
50°	215.4	196.1	151.1	115.7	94.8	83.6	83.6	67.5	61.1	57.9	59.5
52.5°	204.1	183.2	136.6	102.9	82.0	67.5	59.5	54.7	49.8	48.2	49.8
55°	188.1	167.2	122.2	88.4	70.7	56.3	46.6	45.0	41.8	38.6	41.8
57.5°	168.8	149.5	107.7	75.5	56.3	43.4	38.6	37.0	33.8	32.1	32.1
59°	157.5	139.8	99.7	65.9	49.8	38.6	35.4	33.8	30.5	27.3	28.9
60°	151.1	136.6	94.8	61.1	45.0	35.4	32.1	30.5	27.3	25.7	27.3
62.5°	133.4	122.2	83.6	49.8	35.4	25.7	22.5	24.1	22.5	20.9	22.5
65°	117.3	107.7	70.7	38.6	27.3	17.7	16.1	20.9	19.3	17.7	19.3
67.5°	104.5	93.2	59.5	28.9	19.3	9.6	11.3	17.7	17.7	16.1	17.7
70°	90.0	80.4	48.2	20.9	9.6	4.8	8.0	12.9	16.1	14.5	16.1
72.5°	73.9	62.7	37.0	14.5	4.8	0.0	4.8	11.3	16.1	14.5	16.1
75°	57.9	46.6	27.3	8.0	0.0	0.0	1.6	9.6	16.1	14.5	16.1
77.5°	41.8	33.8	16.1	1.6	0.0	0.0	1.6	9.6	16.1	14.5	16.1
80°	27.3	24.1	6.4	0.0	0.0	0.0	1.6	9.6	16.1	16.1	17.7
82.5°	17.7	12.9	0.0	0.0	0.0	0.0	3.2	12.9	17.7	19.3	19.3
85°	8.0	0.0	0.0	0.0	0.0	0.0	6.4	16.1	20.9	20.9	20.9
87.5°	0.0	0.0	0.0	0.0	0.0	3.2	11.3	19.3	24.1	24.1	24.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P454380

CATALOG NUMBER: GALN-SA5C-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6989.1	6989.1	6989.1	6989.1	6989.1	6989.1	6989.1	6989.1	6989.1	6989.1	6989.1
2.5°	5748.1	5849.4	5992.5	6212.7	6391.1	6672.4	6887.8	7181.9	7479.3	7569.3	7709.2
5°	4230.7	4360.9	4685.6	4981.4	5167.9	5762.6	6138.7	6731.9	7263.9	7519.5	7797.6
7.5°	2938.4	3092.7	3340.2	3753.3	4145.5	4629.4	5237.0	5915.3	6694.9	7059.8	7452.0
10°	2062.3	2255.2	2604.0	2943.2	3436.7	3896.4	4495.9	5245.0	6105.0	6535.8	7027.6
12.5°	1302.0	1474.0	1935.3	2316.3	2931.9	3465.6	4018.5	4696.9	5693.5	6135.5	6651.5
15°	744.2	888.9	1104.3	1593.0	2276.1	2981.8	3671.3	4459.0	5482.9	6027.8	6585.6
17.5°	554.6	593.1	689.6	966.1	1588.1	2412.7	3351.5	4386.6	5626.0	6265.7	6902.3
20°	466.2	491.9	536.9	646.2	1012.7	1858.2	3039.6	4399.5	6088.9	6892.6	7497.0
22.5°	417.9	434.0	471.0	541.7	691.2	1353.4	2674.7	4475.1	6649.9	7662.6	8360.2
25°	366.5	387.4	419.5	480.6	575.5	938.7	2314.7	4643.8	7435.9	8639.9	9295.7
27.5°	326.3	345.6	377.7	434.0	504.7	716.9	1895.1	4788.5	8265.3	9623.6	10160.5
30°	286.1	305.4	337.6	382.6	446.9	580.3	1443.5	4873.7	9070.7	10361.4	10774.5
32.5°	252.4	268.4	299.0	339.2	392.2	491.9	1138.1	4785.3	9686.3	11031.7	11308.2
35°	218.6	237.9	263.6	300.6	347.2	419.5	946.8	4479.9	10215.1	11721.3	11821.0
37.5°	183.2	205.7	233.1	266.8	303.8	385.8	760.3	4142.3	10781.0	12581.3	12417.3
40°	154.3	175.2	200.9	237.9	271.7	353.6	585.1	3782.3	11391.8	13388.2	13068.3
42.5°	125.4	147.9	178.4	212.2	268.4	308.6	453.3	3409.3	11939.9	14090.6	13656.6
45°	99.7	118.9	151.1	194.5	266.8	265.2	350.4	3041.2	12353.0	14592.1	14095.5
47.5°	78.8	94.8	127.0	189.7	245.9	225.0	281.3	2813.0	12787.0	15043.8	14431.4
50°	62.7	78.8	109.3	197.7	215.4	192.9	236.3	2850.0	13206.5	15273.7	14569.6
52.5°	53.0	69.1	94.8	155.9	165.6	168.8	207.4	3020.3	13748.2	15519.6	14844.5
55°	46.6	61.1	80.4	109.3	128.6	151.1	189.7	3144.1	14473.2	16046.9	15450.5
57.5°	37.0	53.0	72.3	93.2	106.1	131.8	175.2	3153.8	15129.0	16723.6	16255.8
59°	33.8	48.2	67.5	88.4	94.8	118.9	165.6	3071.8	15153.1	16824.8	16625.5
60°	30.5	46.6	64.3	82.0	90.0	112.5	157.5	2976.9	14934.5	16664.1	16778.2
62.5°	25.7	40.2	56.3	65.9	77.2	93.2	136.6	2633.0	13875.2	15935.9	16495.3
65°	22.5	35.4	48.2	54.7	64.3	80.4	120.6	2107.3	12705.0	14949.0	15685.2
67.5°	20.9	32.1	41.8	46.6	56.3	73.9	107.7	1488.5	11189.2	13696.8	14468.4
70°	19.3	30.5	37.0	43.4	49.8	62.7	91.6	868.0	8619.0	11501.1	12316.0
72.5°	19.3	28.9	32.1	37.0	43.4	56.3	85.2	469.4	5892.8	8773.3	9826.1
75°	19.3	27.3	28.9	32.1	38.6	51.4	75.5	245.9	3809.6	6095.3	7522.7
77.5°	19.3	25.7	28.9	30.5	37.0	45.0	65.9	154.3	2538.1	4269.3	5084.3
80°	20.9	25.7	27.3	30.5	35.4	41.8	54.7	102.9	1491.7	2568.7	3094.3
82.5°	22.5	25.7	28.9	32.1	37.0	40.2	48.2	64.3	688.0	1699.0	1922.5
85°	24.1	27.3	30.5	33.8	38.6	40.2	45.0	46.6	112.5	766.7	1036.8
87.5°	25.7	28.9	32.1	35.4	41.8	41.8	41.8	41.8	38.6	82.0	209.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P454380

CATALOG NUMBER: GALN-SA5C-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6989.1	6989.1	6989.1	6989.1	6989.1	6989.1	6989.1	6989.1	6989.1	6989.1
2.5°	7886.0	8067.6	8194.6	8226.8	8135.1	8093.4	7977.6	7797.6	7688.3	7683.5
5°	8310.4	8736.3	9032.1	9081.9	8905.1	8606.1	8250.9	7792.8	7524.3	7444.0
7.5°	8238.0	8983.9	9459.7	9528.8	9231.4	8660.8	7972.8	7235.0	6942.4	6818.7
10°	7940.6	8850.4	9530.4	9639.7	9242.7	8438.9	7564.5	6741.5	6378.2	6283.4
12.5°	7686.7	8606.1	9210.5	9361.6	9061.0	8258.9	7320.2	6424.9	6035.9	5947.4
15°	7575.8	8316.8	8686.5	8763.6	8713.8	8146.4	7294.5	6376.6	5931.4	5834.9
17.5°	7686.7	8070.8	8117.5	8196.2	8307.1	8135.1	7542.0	6638.6	6158.0	6039.1
20°	7977.6	7857.1	7664.2	7697.9	7951.9	8181.8	7982.4	7218.9	6633.8	6506.8
22.5°	8472.7	7804.0	7366.8	7337.9	7659.3	8337.7	8628.6	8004.9	7326.6	7201.2
25°	9080.3	7937.4	7257.5	7194.8	7545.2	8565.9	9331.1	8967.8	8226.8	8035.5
27.5°	9742.6	8213.9	7257.5	7196.4	7535.6	8768.5	9932.2	9819.7	9159.1	8950.1
30°	10105.8	8442.2	7362.0	7292.9	7654.5	8885.8	10253.7	10576.8	9859.9	9601.1
32.5°	10430.5	8758.8	7566.1	7435.9	7903.7	9059.4	10541.4	11219.8	10417.7	10244.1
35°	10729.5	9098.0	7847.4	7696.3	8231.6	9297.3	10859.7	11894.9	11194.1	10932.1
37.5°	11059.0	9491.8	8286.2	8157.6	8779.7	9760.2	11237.5	12782.2	11957.6	11628.1
40°	11417.5	9948.3	9008.0	8953.3	9650.9	10284.3	11714.9	13729.0	12828.8	12454.3
42.5°	11782.4	10473.9	9892.1	9982.1	10637.9	11018.9	12205.1	14457.1	13542.5	13129.4
45°	12113.5	11145.8	11041.4	11486.6	11788.8	11735.8	12568.4	14969.9	14164.6	13769.1
47.5°	12531.4	12124.8	12431.8	13118.1	13126.2	12515.4	12843.3	15389.4	14699.8	14304.4
50°	12999.2	13280.5	14227.3	14926.5	14738.4	13282.1	13164.8	15886.1	15252.8	14936.1
52.5°	13540.9	14574.5	15886.1	16662.5	16223.7	14118.0	13700.0	16423.0	16130.4	15826.6
55°	14171.0	15456.9	17540.1	18159.0	17717.0	15156.3	14513.4	17151.2	17122.2	16914.9
57.5°	14883.1	16389.2	18498.2	19335.6	18941.8	16374.8	15649.8	17837.5	17728.2	17612.5
59°	15445.7	16868.2	18920.9	19788.9	19551.0	17228.3	16413.3	18265.1	17868.1	17694.5
60°	15786.5	17192.9	19076.8	19850.0	19795.4	17736.3	16897.2	18474.1	17866.5	17625.3
62.5°	16797.5	17760.4	19017.4	19578.4	19792.1	18710.4	18316.5	18703.9	17535.3	17181.7
65°	17157.6	17572.3	18032.0	17962.9	18146.1	18660.5	19223.1	18451.6	16828.1	16324.9
67.5°	16456.7	15510.0	15672.3	15211.0	15121.0	16590.2	18855.0	17217.1	15444.1	14828.4
70°	13872.0	11882.0	11800.1	12012.2	11430.4	13431.6	16930.9	14839.7	13159.9	12462.3
72.5°	10919.2	8397.2	7706.0	8487.2	8469.5	10247.3	14064.9	10530.2	8890.6	8831.2
75°	8586.8	5846.2	5130.9	5257.9	5502.2	7418.2	11202.1	6686.9	5474.9	4989.4
77.5°	5764.2	4142.3	3864.2	3708.3	3971.9	4762.8	7087.1	3626.3	3070.2	2907.8
80°	3322.5	3009.1	3417.4	3102.3	3243.8	3001.1	3525.1	1663.7	1380.8	1494.9
82.5°	2162.0	1713.5	1826.0	1356.7	1855.0	1871.0	1131.6	491.9	416.3	442.0
85°	1351.8	803.7	451.7	321.5	639.8	1176.6	353.6	30.5	35.4	30.5
87.5°	350.4	133.4	56.3	83.6	102.9	91.6	82.0	4.8	1.6	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)