

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: P529561

Luminaire Tested: **GALN-SA4D-727-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529561  
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-SA4D-727-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 1200mA 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: 14149 lumens  
Efficiency: N/A  
Efficacy: 57.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

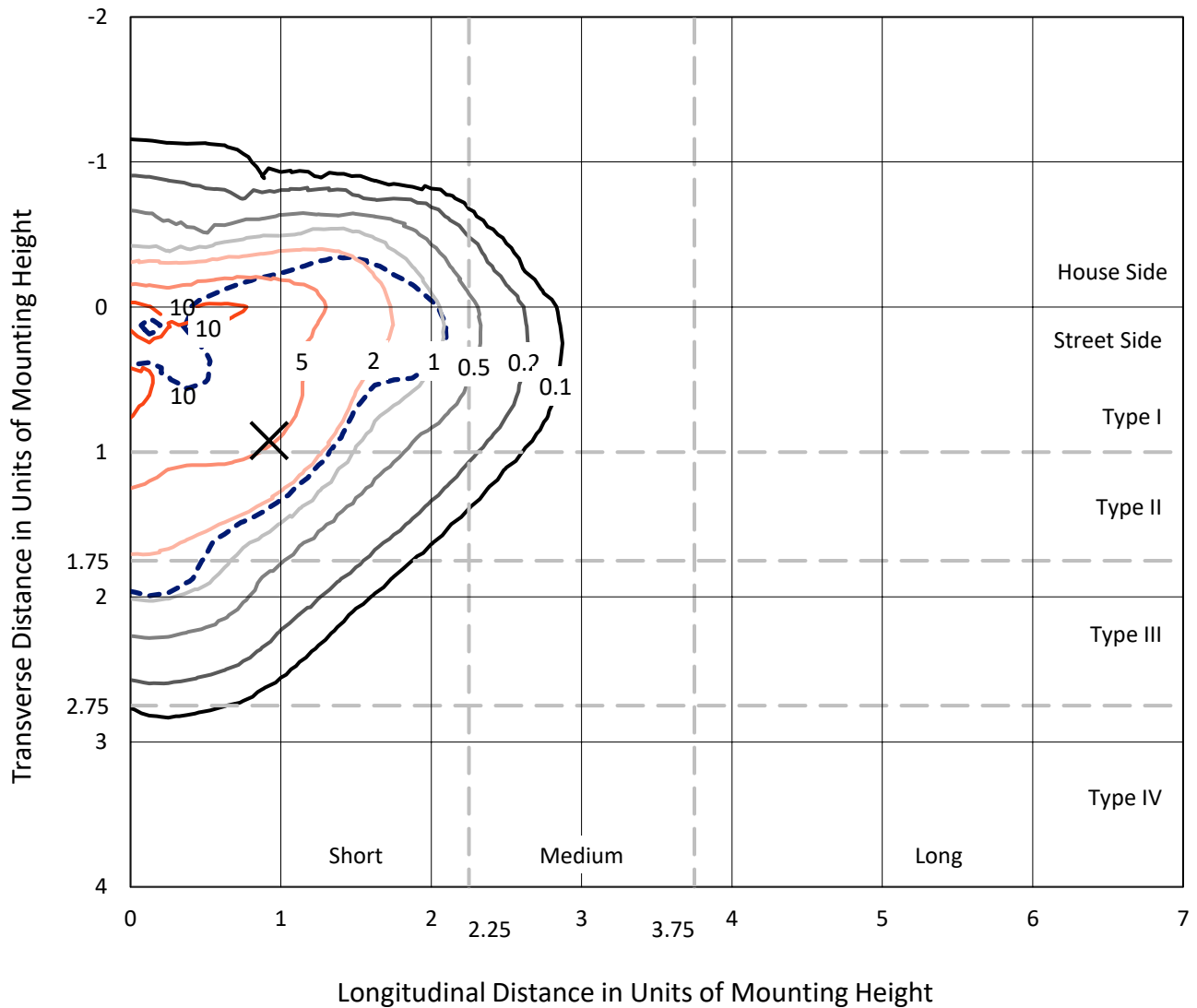
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P529561  
 CATALOG NUMBER: GALN-SA4D-727-U-SLL-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

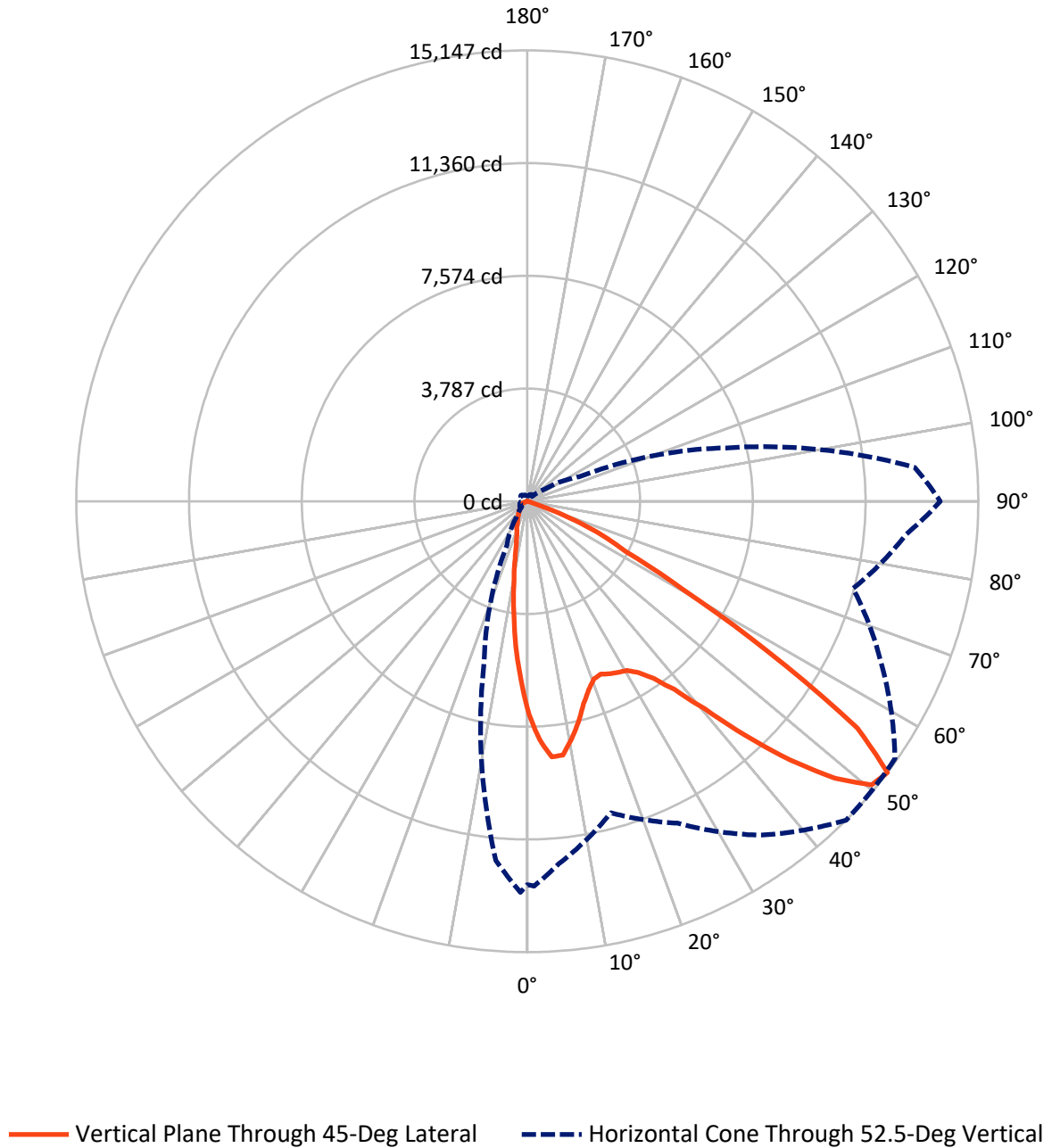
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc  
 Type III - Short - N/A

REPORT NUMBER: P529561  
CATALOG NUMBER: GALN-SA4D-727-U-SLL-GRSBK

### Luminous Intensity Polar Plot



REPORT NUMBER: P529561  
 CATALOG NUMBER: GALN-SA4D-727-U-SLL-GRSBK

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2871.5	0.0	2871.5
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	11277.5	0.0	11277.5
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	14149.0	0.0	14149.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	523.2	3.7
10°-20°	1032.3	7.3
20°-30°	1570.9	11.1
30°-40°	2347.9	16.6
40°-50°	3343.7	23.6
50°-60°	3594.4	25.4
60°-70°	1592.7	11.3
70°-80°	128.9	0.9
80°-90°	15.0	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°	14149.0	100.0
0°-180°	14149.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P529561

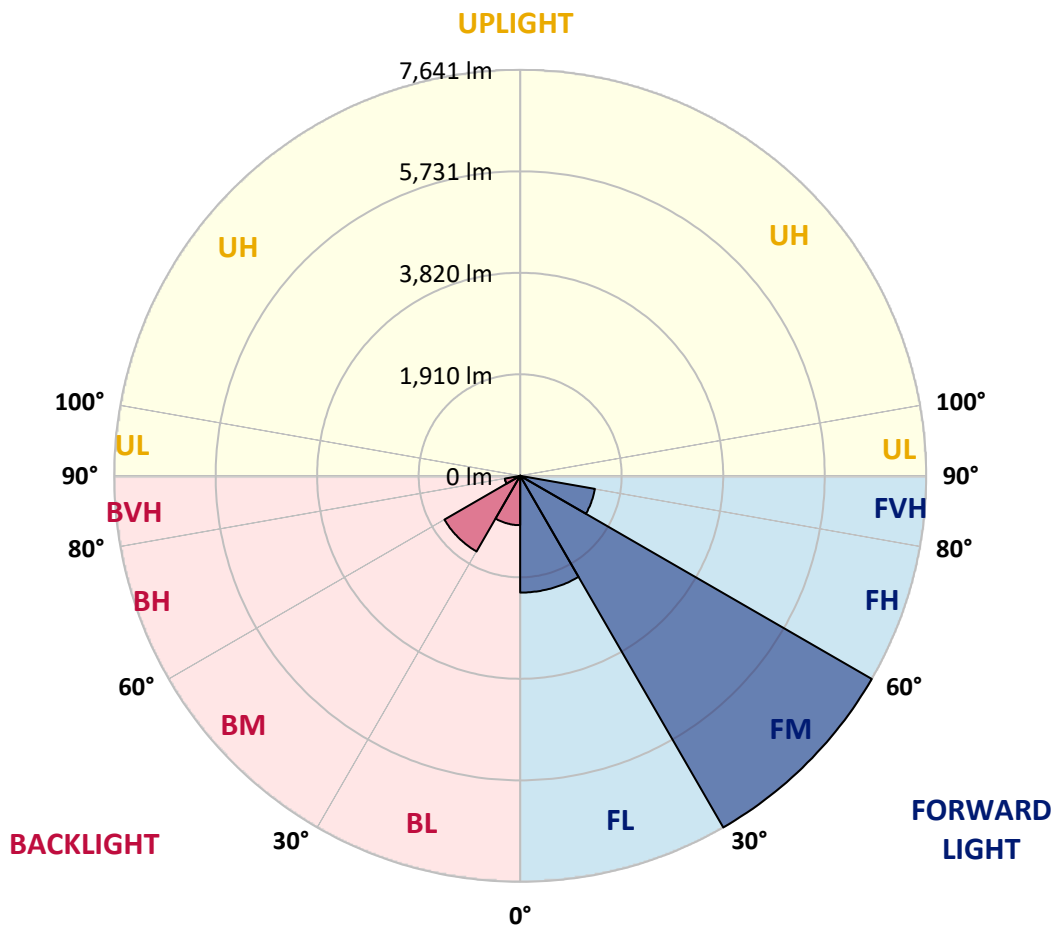
CATALOG NUMBER: GALN-SA4D-727-U-SLL-GRSBK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2197.6	15.5			
FM (30°-60°)	7640.9	54.0			
FH (60°-80°)	1427.8	10.1			G1/1800
FVH (80°-90°)	11.1	0.1			G1/100
BL (0°-30°)	928.8	6.6	B2/1000		
BM (30°-60°)	1645.1	11.6	B2/2500		
BH (60°-80°)	293.8	2.1	B1/500		G1/500
BVH (80°-90°)	3.9	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





REPORT NUMBER: P529561

CATALOG NUMBER: GALN-SA4D-727-U-SLL-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7174.2	7174.2	7174.2	7174.2	7174.2	7174.2	7174.2	7174.2	7174.2	7174.2	7174.2
2.5°	7591.6	7613.9	7736.3	7889.4	7970.1	8153.8	8025.8	8059.1	7989.6	7744.7	7552.7
5°	7360.7	7357.9	7513.7	7892.2	8251.2	8615.7	8626.9	8432.1	8089.8	7714.1	7177.0
7.5°	6664.9	6773.5	6934.9	7538.8	8203.9	8476.6	8607.4	8379.2	7853.2	7316.1	6734.5
10°	6139.0	6194.6	6467.4	7196.5	7683.5	8048.0	8128.7	7997.9	7594.4	6923.7	6272.6
12.5°	5835.6	5863.5	6183.5	6795.7	7310.6	7580.5	7619.5	7680.7	7391.3	6762.3	5980.4
15°	5838.4	5860.7	6292.0	6804.1	7007.2	6934.9	7062.9	7060.1	7185.3	6731.7	6225.2
17.5°	6258.6	6283.7	6673.3	6926.5	6837.5	6667.7	6659.4	6787.4	7051.8	7113.0	6595.4
20°	6982.2	7040.6	7327.3	7313.3	6812.4	6470.1	6375.5	6472.9	7087.9	7435.8	7341.2
22.5°	7956.2	8036.9	8237.3	7853.2	6926.5	6336.6	6305.9	6495.2	7327.3	8156.5	8187.2
25°	9086.0	9222.4	9319.8	8827.2	7332.8	6567.5	6422.8	6748.4	7650.1	8938.5	9264.1
27.5°	9834.6	9976.5	9954.3	9250.2	7605.5	6628.8	6506.3	6809.6	7931.1	9125.0	9826.3
30°	10419.0	10505.3	10661.1	9478.4	7878.3	6801.3	6592.6	7068.5	8023.0	9447.8	10505.3
32.5°	11100.8	11159.2	11170.4	9881.9	8298.5	7018.4	6859.7	7391.3	8429.3	9756.7	11106.4
35°	11788.2	11874.4	11693.6	10380.0	8557.3	7421.9	7305.0	7950.6	8754.9	10076.7	11768.7
37.5°	12534.0	12578.5	12161.1	10586.0	8927.4	8078.6	8014.6	8554.5	9319.8	10655.6	12503.4
40°	13160.1	13201.9	12659.2	10839.2	9317.0	8997.0	9161.2	9706.6	10087.9	11031.2	12870.7
42.5°	13508.0	13605.4	12826.2	10700.1	10099.0	10037.8	10766.9	10958.9	10978.4	11137.0	13199.1
45°	13602.6	13558.1	12550.7	10814.2	10783.6	11749.2	12411.5	12664.8	11863.3	11331.8	13282.6
47.5°	13165.7	13224.1	12144.4	10714.0	11682.4	13046.0	13903.1	14373.4	12522.8	11162.0	13076.6
50°	12812.3	12737.1	12013.6	10641.6	11924.5	13658.3	14980.1	15085.9	13129.5	11370.7	12851.2
52.5°	12881.8	12929.1	12222.3	10833.7	11930.1	13694.4	15147.1	15074.7	13149.0	11323.4	12770.5
55°	13029.3	12820.6	12133.2	10410.7	11131.4	12684.3	13444.0	13332.7	12136.0	10819.7	12572.9
57.5°	11242.7	11565.5	11156.5	9294.7	9136.1	9556.3	9542.4	9884.7	9052.6	9311.4	11445.9
60°	9125.0	9180.6	9333.7	7950.6	6322.6	6177.9	5977.6	5760.5	6091.7	7961.7	10410.7
62.5°	8025.8	7959.0	8504.4	7232.6	4463.7	3737.4	3704.0	3837.6	4700.2	7594.4	9765.0
65°	5832.9	5916.4	6311.5	5613.0	3350.6	2852.4	2802.3	3197.5	3804.2	6086.1	7452.5
67.5°	3562.1	3723.5	3759.6	3461.9	2273.6	1806.1	1733.7	2092.7	2746.7	3937.7	4369.1
70°	1644.7	1839.5	2023.1	1889.6	1316.3	743.0	701.3	879.4	1385.9	2265.2	2318.1
72.5°	498.1	500.9	701.3	731.9	425.8	167.0	147.5	194.8	470.3	748.6	787.5
75°	36.2	39.0	94.6	108.5	80.7	41.7	44.5	52.9	100.2	167.0	125.2
77.5°	2.8	2.8	2.8	13.9	25.0	27.8	36.2	41.7	52.9	61.2	55.7
80°	2.8	0.0	2.8	11.1	19.5	27.8	33.4	39.0	41.7	47.3	41.7
82.5°	0.0	0.0	0.0	8.3	19.5	27.8	30.6	41.7	47.3	55.7	47.3
85°	0.0	0.0	0.0	8.3	19.5	30.6	27.8	13.9	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



REPORT NUMBER: P529561

CATALOG NUMBER: GALN-SA4D-727-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7174.2	7174.2	7174.2	7174.2	7174.2	7174.2	7174.2	7174.2	7174.2	7174.2	7174.2
2.5°	7586.1	7477.5	7229.9	7104.6	6809.6	6767.9	6478.5	6431.2	6333.8	6280.9	6152.9
5°	6940.4	6809.6	6406.1	6066.6	5671.5	5396.0	5184.5	4992.4	4881.1	4778.2	4825.5
7.5°	6414.5	6033.2	5585.2	5017.5	4561.1	4266.1	3943.3	3678.9	3523.1	3417.3	3442.4
10°	5863.5	5615.8	4992.4	4355.2	3804.2	3595.4	3342.2	3139.1	2919.2	2730.0	2640.9
12.5°	5690.9	5323.6	4541.6	3893.2	3475.8	3272.6	2983.2	2749.5	2468.4	2237.4	2156.7
15°	5721.6	5368.1	4419.2	3726.2	3233.7	2883.0	2538.0	2248.5	1939.7	1778.2	1694.8
17.5°	6219.7	5607.5	4499.9	3550.9	2897.0	2410.0	1984.2	1616.8	1385.9	1218.9	1182.7
20°	6831.9	6125.1	4672.4	3422.9	2621.4	1917.4	1449.9	1132.6	940.6	912.8	904.4
22.5°	7728.0	6971.1	5042.5	3336.6	2284.7	1494.4	993.5	823.7	770.9	765.3	768.1
25°	8980.3	8031.3	5446.0	3264.3	2031.5	1152.1	812.6	698.5	681.8	673.5	687.4
27.5°	9522.9	8671.4	5660.3	3108.4	1800.5	1038.0	801.5	692.9	645.6	631.7	640.1
30°	10193.6	9097.2	5997.1	2841.3	1461.0	854.3	748.6	754.2	731.9	662.3	640.1
32.5°	11084.1	9628.7	6166.8	2652.1	1305.2	706.8	548.2	503.7	562.1	573.3	592.7
35°	11654.6	10168.6	6253.1	2540.7	1224.5	603.9	464.7	423.0	409.1	411.9	423.0
37.5°	12714.9	10897.7	6361.6	2423.9	1163.2	526.0	420.2	381.3	361.8	361.8	372.9
40°	13349.4	11476.5	6509.1	2359.9	1102.0	478.7	381.3	347.9	331.2	331.2	336.7
42.5°	13508.0	11763.1	6459.0	2337.6	1032.4	467.5	347.9	322.8	303.3	300.5	297.8
45°	13791.8	12200.0	6467.4	2312.6	960.1	425.8	328.4	300.5	272.7	269.9	267.2
47.5°	14103.5	12514.5	6484.1	2215.2	890.5	356.2	342.3	278.3	244.9	239.3	239.3
50°	13836.4	12765.0	6628.8	2117.8	801.5	289.4	336.7	261.6	217.1	208.7	211.5
52.5°	13869.8	13059.9	6934.9	1981.4	690.1	231.0	272.7	247.7	197.6	183.7	186.5
55°	13335.4	12748.3	6976.6	1836.7	539.9	178.1	208.7	217.1	167.0	161.4	161.4
57.5°	11479.3	10794.7	6155.7	1488.8	356.2	147.5	150.3	189.2	144.7	139.1	141.9
60°	9823.5	8665.8	4953.5	982.3	222.6	116.9	108.5	192.0	128.0	125.2	133.6
62.5°	8955.2	7121.3	3756.9	609.4	153.1	89.1	75.1	155.8	111.3	111.3	122.4
65°	6470.1	4783.7	2184.5	320.0	108.5	69.6	55.7	89.1	91.8	94.6	100.2
67.5°	4007.3	2415.5	921.1	155.8	72.4	47.3	36.2	55.7	61.2	61.2	66.8
70°	1978.6	962.9	306.1	89.1	55.7	39.0	25.0	30.6	30.6	27.8	30.6
72.5°	612.2	289.4	77.9	55.7	39.0	25.0	13.9	11.1	5.6	0.0	2.8
75°	69.6	55.7	50.1	39.0	25.0	11.1	2.8	0.0	0.0	0.0	0.0
77.5°	41.7	47.3	47.3	39.0	25.0	8.3	0.0	0.0	0.0	0.0	0.0
80°	33.4	36.2	39.0	36.2	22.3	11.1	0.0	0.0	0.0	0.0	0.0
82.5°	41.7	47.3	52.9	47.3	30.6	13.9	5.6	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	8.3	2.8	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





REPORT NUMBER: P529561

CATALOG NUMBER: GALN-SA4D-727-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7174.2	7174.2	7174.2	7174.2	7174.2	7174.2	7174.2	7174.2	7174.2	7174.2	7174.2
2.5°	6100.0	6038.8	6125.1	5997.1	5994.3	5997.1	5960.9	5927.5	5980.4	6122.3	6136.2
5°	4655.7	4786.5	4828.3	4964.6	4889.5	4778.2	4800.4	4725.3	4909.0	4989.7	4925.7
7.5°	3389.5	3381.2	3662.2	3678.9	3715.1	3717.9	3712.3	3564.8	3414.6	3448.0	3548.1
10°	2629.8	2487.9	2624.2	2610.3	2699.4	2674.3	2710.5	2551.9	2604.8	2604.8	2668.8
12.5°	2142.8	1992.5	1967.5	1931.3	1967.5	1981.4	1995.3	1964.7	2053.7	2095.5	2140.0
15°	1636.3	1552.8	1530.6	1461.0	1472.1	1511.1	1544.5	1558.4	1530.6	1594.6	1600.1
17.5°	1188.3	1185.5	1199.4	1196.6	1185.5	1177.1	1174.4	1138.2	1127.1	1132.6	1154.9
20°	901.6	923.9	971.2	1018.5	1043.6	1013.0	971.2	910.0	884.9	890.5	893.3
22.5°	770.9	804.2	868.3	921.1	946.2	890.5	815.4	762.5	751.4	748.6	745.8
25°	698.5	737.5	784.8	801.5	798.7	765.3	709.6	687.4	681.8	676.2	651.2
27.5°	659.5	673.5	681.8	701.3	709.6	687.4	673.5	640.1	634.5	634.5	617.8
30°	637.3	628.9	640.1	626.1	637.3	620.6	623.4	623.4	609.4	615.0	615.0
32.5°	592.7	595.5	595.5	567.7	576.1	556.6	576.1	592.7	595.5	598.3	620.6
35°	434.1	484.2	509.3	509.3	517.6	503.7	500.9	481.4	456.4	431.3	420.2
37.5°	381.3	400.7	434.1	453.6	467.5	456.4	431.3	400.7	386.8	375.7	364.6
40°	339.5	356.2	378.5	400.7	428.6	414.6	375.7	361.8	345.1	345.1	333.9
42.5°	306.1	314.5	328.4	361.8	392.4	364.6	336.7	325.6	317.2	314.5	311.7
45°	275.5	278.3	292.2	320.0	356.2	328.4	300.5	286.6	289.4	292.2	289.4
47.5°	247.7	253.2	261.6	295.0	317.2	303.3	272.7	264.4	264.4	264.4	267.2
50°	214.3	228.2	244.9	272.7	289.4	281.1	256.0	244.9	239.3	239.3	242.1
52.5°	192.0	203.1	225.4	258.8	281.1	267.2	242.1	225.4	214.3	211.5	217.1
55°	167.0	186.5	222.6	247.7	278.3	264.4	236.5	217.1	197.6	194.8	194.8
57.5°	150.3	180.9	214.3	244.9	269.9	258.8	236.5	211.5	186.5	183.7	183.7
60°	141.9	175.3	208.7	236.5	269.9	253.2	233.8	205.9	178.1	178.1	175.3
62.5°	133.6	164.2	197.6	225.4	258.8	244.9	225.4	197.6	169.8	169.8	164.2
65°	111.3	141.9	164.2	189.2	225.4	211.5	192.0	172.5	150.3	144.7	147.5
67.5°	77.9	97.4	119.7	144.7	167.0	161.4	153.1	139.1	119.7	116.9	114.1
70°	39.0	52.9	72.4	97.4	116.9	111.3	105.7	94.6	83.5	80.7	80.7
72.5°	5.6	16.7	30.6	44.5	61.2	64.0	61.2	58.4	55.7	52.9	55.7
75°	0.0	0.0	0.0	11.1	25.0	30.6	36.2	41.7	41.7	36.2	44.5
77.5°	0.0	0.0	0.0	0.0	2.8	13.9	27.8	36.2	44.5	39.0	52.9
80°	0.0	0.0	0.0	0.0	2.8	16.7	27.8	39.0	44.5	39.0	55.7
82.5°	0.0	0.0	0.0	0.0	2.8	19.5	27.8	36.2	41.7	39.0	50.1
85°	0.0	0.0	0.0	0.0	8.3	16.7	11.1	5.6	2.8	2.8	8.3
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



REPORT NUMBER: P529561

CATALOG NUMBER: GALN-SA4D-727-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7174.2	7174.2	7174.2	7174.2	7174.2	7174.2	7174.2	7174.2	7174.2	7174.2
2.5°	6214.1	6411.7	6623.2	6703.9	6954.4	7143.6	7271.6	7547.1	7588.8	7591.6
5°	4992.4	5092.6	5454.4	5624.2	5997.1	6286.5	6595.4	7040.6	7338.4	7360.7
7.5°	3548.1	3826.4	3979.5	4422.0	4881.1	5334.7	5793.9	6311.5	6656.6	6664.9
10°	2855.2	3036.1	3308.8	3640.0	4026.8	4488.7	5101.0	5702.1	6052.7	6139.0
12.5°	2298.6	2615.9	2927.6	3269.9	3564.8	3912.7	4572.2	5373.7	5663.1	5835.6
15°	1769.9	2059.3	2426.6	2827.4	3161.3	3626.1	4377.4	5293.0	5780.0	5838.4
17.5°	1305.2	1564.0	1903.5	2281.9	2782.9	3442.4	4410.8	5702.1	6161.2	6258.6
20°	937.8	1088.1	1355.3	1794.9	2432.2	3228.1	4444.2	6116.7	6815.2	6982.2
22.5°	743.0	804.2	979.6	1369.2	2039.8	3002.7	4680.8	6909.8	7714.1	7956.2
25°	645.6	679.0	762.5	1079.7	1792.2	2980.4	5059.2	7861.6	8910.7	9086.0
27.5°	623.4	628.9	701.3	990.7	1658.6	2832.9	5203.9	8537.8	9656.5	9834.6
30°	656.8	745.8	751.4	837.6	1410.9	2540.7	5279.1	9191.8	10288.2	10419.0
32.5°	567.7	539.9	559.4	648.4	1241.2	2371.0	5421.0	9762.3	11009.0	11100.8
35°	395.2	414.6	459.2	562.1	1085.3	2192.9	5457.2	10391.2	11693.6	11788.2
37.5°	364.6	375.7	411.9	478.7	954.5	2092.7	5407.1	10850.4	12403.2	12534.0
40°	339.5	353.4	372.9	434.1	857.1	1981.4	5337.5	11265.0	12837.3	13160.1
42.5°	320.0	331.2	347.9	414.6	773.6	1870.1	5240.1	11849.4	13226.9	13508.0
45°	297.8	314.5	333.9	403.5	726.3	1794.9	5167.8	11813.2	13452.3	13602.6
47.5°	275.5	303.3	325.6	375.7	712.4	1758.8	5198.4	11676.9	13268.7	13165.7
50°	253.2	289.4	328.4	311.7	679.0	1686.4	5234.6	11863.3	12831.7	12812.3
52.5°	233.8	275.5	306.1	256.0	603.9	1616.8	5585.2	12108.2	13140.6	12881.8
55°	205.9	247.7	244.9	205.9	489.8	1564.0	5860.7	12113.8	12931.9	13029.3
57.5°	186.5	219.8	192.0	172.5	361.8	1307.9	5412.7	10157.4	11070.2	11242.7
60°	172.5	214.3	144.7	136.4	236.5	943.4	4725.3	7867.1	8799.4	9125.0
62.5°	158.6	203.1	114.1	111.3	164.2	670.7	3884.9	6584.2	7583.3	8025.8
65°	139.1	144.7	91.8	86.3	116.9	361.8	2365.4	4533.3	5668.7	5832.9
67.5°	114.1	111.3	75.1	69.6	77.9	175.3	1043.6	2270.8	3286.6	3562.1
70°	91.8	91.8	64.0	55.7	55.7	80.7	272.7	904.4	1486.0	1644.7
72.5°	66.8	69.6	50.1	44.5	41.7	39.0	44.5	180.9	389.6	498.1
75°	58.4	61.2	50.1	39.0	30.6	25.0	19.5	16.7	22.3	36.2
77.5°	64.0	64.0	52.9	36.2	27.8	19.5	11.1	5.6	5.6	2.8
80°	80.7	83.5	69.6	47.3	33.4	22.3	13.9	5.6	2.8	2.8
82.5°	86.3	94.6	77.9	58.4	41.7	25.0	13.9	2.8	0.0	0.0
85°	22.3	36.2	61.2	52.9	41.7	25.0	13.9	2.8	0.0	0.0
87.5°	0.0	2.8	8.3	8.3	11.1	11.1	8.3	2.8	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)