

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: P530029

Luminaire Tested: **GALN-SA5B-727-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530029  
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-SA5B-727-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 800mA 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: 13175 lumens  
Efficiency: N/A  
Efficacy: 64.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

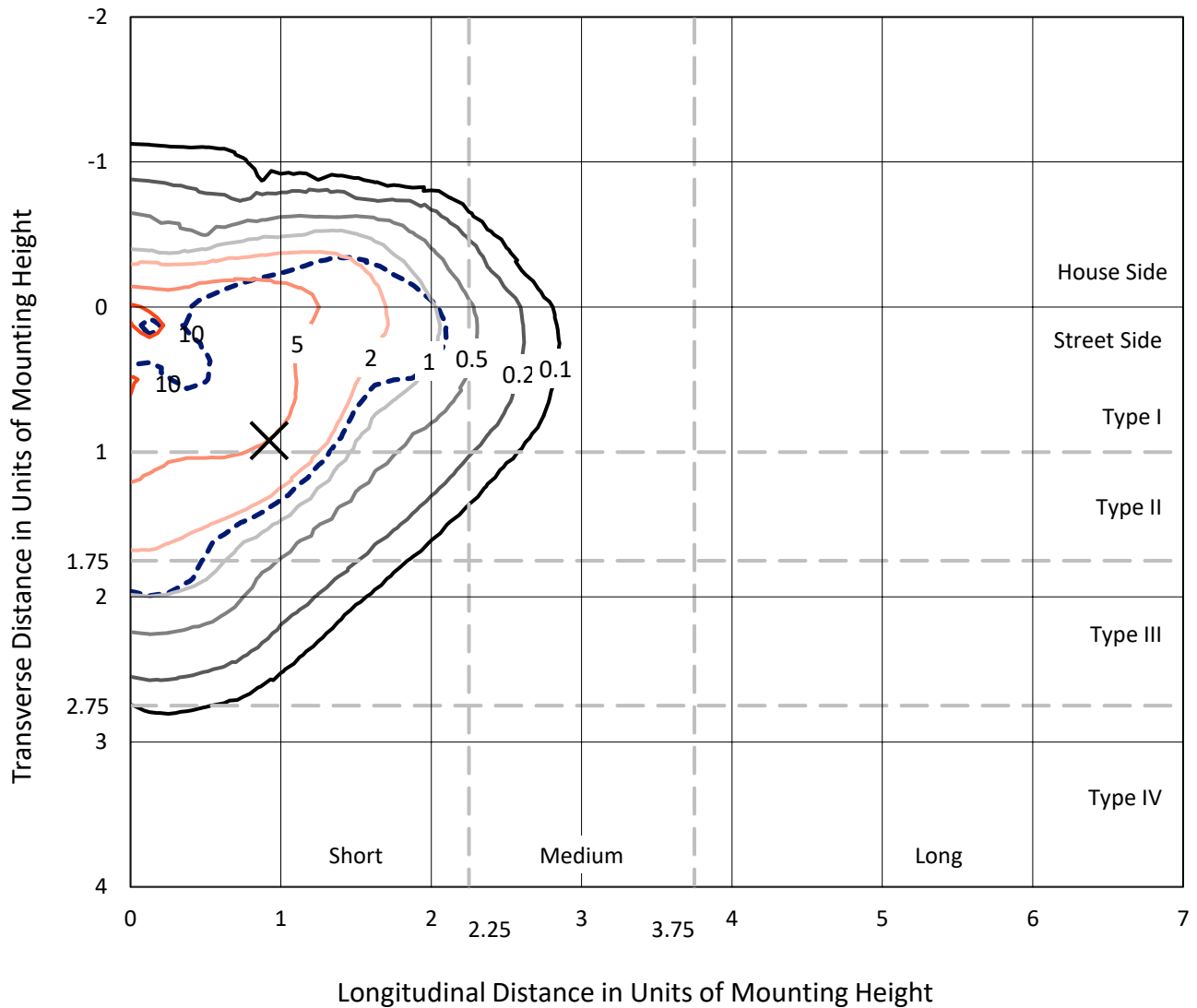
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

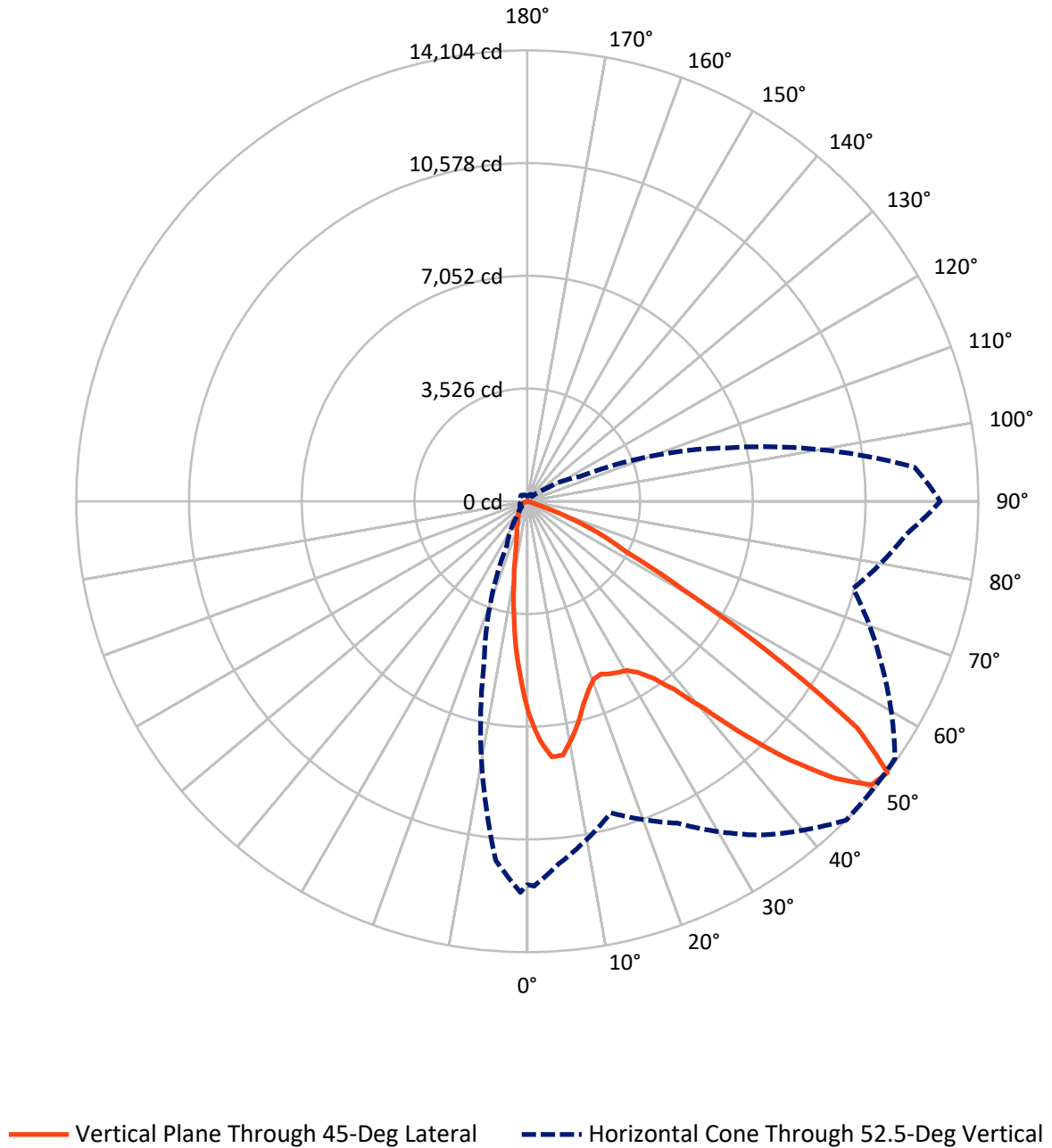
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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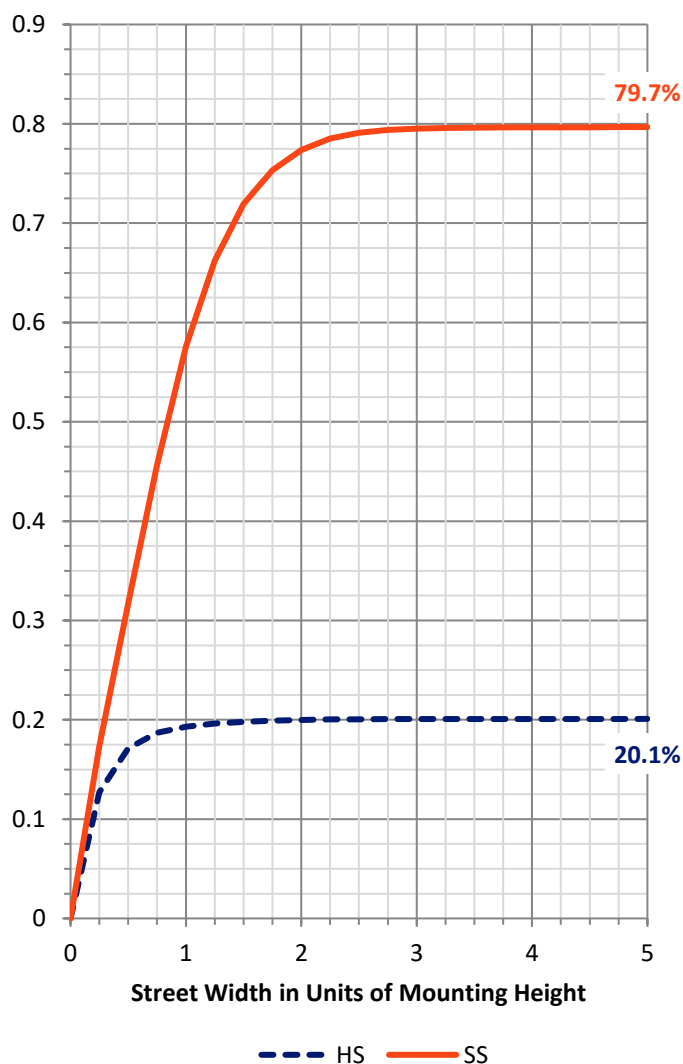
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2673.9	0.0	2673.9
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	10501.1	0.0	10501.1
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	13175.0	0.0	13175.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	487.2	3.7
10°-20°	961.2	7.3
20°-30°	1462.8	11.1
30°-40°	2186.3	16.6
40°-50°	3113.5	23.6
50°-60°	3346.9	25.4
60°-70°	1483.1	11.3
70°-80°	120.0	0.9
80°-90°	14.0	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°	13175.0	100.0
0°-180°	13175.0	100.0

**Coefficient of Utilization**

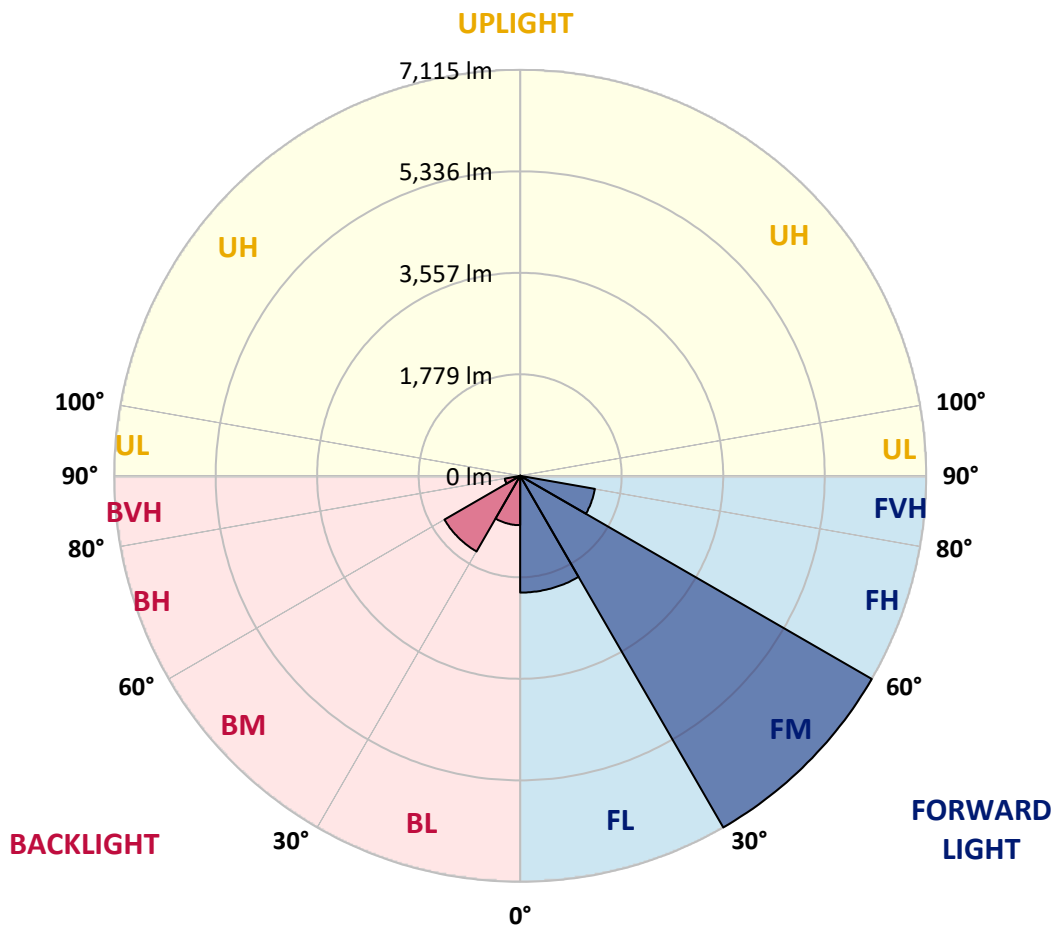


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2046.3	15.5			
FM (30°-60°)	7114.9	54.0			
FH (60°-80°)	1329.5	10.1			G1/1800
FVH (80°-90°)	10.4	0.1			G1/100
BL (0°-30°)	864.8	6.6	B2/1000		
BM (30°-60°)	1531.8	11.6	B2/2500		
BH (60°-80°)	273.6	2.1	B1/500		G1/500
BVH (80°-90°)	3.6	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3
2.5°	7069.0	7089.8	7203.8	7346.3	7421.4	7592.5	7473.3	7504.4	7439.6	7211.6	7032.8
5°	6854.0	6851.4	6996.5	7348.9	7683.2	8022.6	8033.0	7851.6	7532.9	7183.0	6682.9
7.5°	6206.1	6307.2	6457.5	7019.8	7639.1	7893.1	8014.9	7802.4	7312.6	6812.5	6270.9
10°	5716.4	5768.2	6022.2	6701.1	7154.5	7494.0	7569.1	7447.4	7071.6	6447.1	5840.8
12.5°	5433.9	5459.8	5757.8	6327.9	6807.3	7058.7	7094.9	7152.0	6882.5	6296.8	5568.7
15°	5436.5	5457.3	5858.9	6335.7	6524.9	6457.5	6576.7	6574.1	6690.7	6268.3	5796.7
17.5°	5827.8	5851.1	6213.9	6449.7	6366.8	6208.7	6200.9	6320.1	6566.3	6623.3	6141.3
20°	6501.5	6556.0	6822.9	6809.9	6343.5	6024.7	5936.6	6027.3	6600.0	6923.9	6835.8
22.5°	7408.5	7483.6	7670.2	7312.6	6449.7	5900.4	5871.9	6048.1	6822.9	7595.1	7623.6
25°	8460.6	8587.5	8678.2	8219.6	6828.0	6115.4	5980.7	6283.9	7123.4	8323.2	8626.4
27.5°	9157.6	9289.8	9269.0	8613.4	7082.0	6172.4	6058.4	6340.9	7385.2	8496.8	9149.8
30°	9701.8	9782.1	9927.2	8825.9	7335.9	6333.1	6138.8	6581.9	7470.7	8797.4	9782.1
32.5°	10336.6	10391.1	10401.4	9201.7	7727.2	6535.2	6387.5	6882.5	7849.0	9085.1	10341.8
35°	10976.7	11057.0	10888.6	9665.5	7968.2	6911.0	6802.1	7403.3	8152.2	9383.0	10958.6
37.5°	11671.2	11712.6	11323.9	9857.3	8312.8	7522.5	7462.9	7965.6	8678.2	9922.0	11642.7
40°	12254.2	12293.1	11787.8	10093.1	8675.6	8377.6	8530.5	9038.4	9393.4	10271.9	11984.7
42.5°	12578.1	12668.8	11943.2	9963.5	9403.8	9346.8	10025.7	10204.5	10222.6	10370.3	12290.5
45°	12666.2	12624.7	11686.7	10069.7	10041.2	10940.4	11557.1	11792.9	11046.7	10551.7	12368.2
47.5°	12259.4	12313.8	11308.4	9976.5	10878.2	12148.0	12946.1	13384.0	11660.8	10393.7	12176.5
50°	11930.3	11860.3	11186.6	9909.1	11103.7	12718.0	13948.9	14047.4	12225.7	10588.0	11966.6
52.5°	11995.1	12039.1	11380.9	10087.9	11108.8	12751.7	14104.4	14037.0	12243.8	10543.9	11891.4
55°	12132.4	11938.1	11298.0	9694.0	10365.1	11811.1	12518.5	12414.9	11300.6	10074.9	11707.4
57.5°	10468.8	10769.4	10388.5	8654.9	8507.2	8898.5	8885.5	9204.3	8429.5	8670.4	10658.0
60°	8496.8	8548.7	8691.2	7403.3	5887.4	5752.7	5566.1	5364.0	5672.3	7413.7	9694.0
62.5°	7473.3	7411.1	7919.0	6734.8	4156.4	3480.1	3449.0	3573.4	4376.7	7071.6	9092.8
65°	5431.3	5509.1	5877.0	5226.6	3119.9	2656.1	2609.4	2977.4	3542.3	5667.1	6939.5
67.5°	3316.8	3467.1	3500.8	3223.6	2117.1	1681.7	1614.4	1948.6	2557.6	3666.7	4068.3
70°	1531.5	1712.8	1883.9	1759.5	1225.7	691.9	653.0	818.8	1290.5	2109.3	2158.5
72.5°	463.8	466.4	653.0	681.5	396.5	155.5	137.3	181.4	437.9	697.1	733.3
75°	33.7	36.3	88.1	101.1	75.1	38.9	41.5	49.2	93.3	155.5	116.6
77.5°	2.6	2.6	2.6	13.0	23.3	25.9	33.7	38.9	49.2	57.0	51.8
80°	2.6	0.0	2.6	10.4	18.1	25.9	31.1	36.3	38.9	44.1	38.9
82.5°	0.0	0.0	0.0	7.8	18.1	25.9	28.5	38.9	44.1	51.8	44.1
85°	0.0	0.0	0.0	7.8	18.1	28.5	25.9	13.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3
2.5°	7063.8	6962.8	6732.2	6615.6	6340.9	6302.0	6032.5	5988.5	5897.8	5848.5	5729.3
5°	6462.7	6340.9	5965.1	5649.0	5281.0	5024.5	4827.6	4648.8	4545.1	4449.2	4493.3
7.5°	5972.9	5617.9	5200.7	4672.1	4247.1	3972.4	3671.9	3425.7	3280.6	3182.1	3205.4
10°	5459.8	5229.2	4648.8	4055.4	3542.3	3347.9	3112.1	2923.0	2718.3	2542.1	2459.1
12.5°	5299.2	4957.1	4229.0	3625.2	3236.5	3047.4	2777.9	2560.2	2298.5	2083.4	2008.2
15°	5327.7	4998.6	4115.0	3469.7	3011.1	2684.6	2363.3	2093.8	1806.1	1655.8	1578.1
17.5°	5791.5	5221.4	4190.1	3306.5	2697.5	2244.1	1847.6	1505.5	1290.5	1135.0	1101.3
20°	6361.6	5703.4	4350.8	3187.3	2441.0	1785.4	1350.1	1054.7	875.9	849.9	842.2
22.5°	7196.0	6491.2	4695.4	3107.0	2127.4	1391.5	925.1	767.0	717.8	712.6	715.2
25°	8362.1	7478.5	5071.1	3039.6	1891.6	1072.8	756.7	650.4	634.9	627.1	640.0
27.5°	8867.4	8074.4	5270.7	2894.5	1676.6	966.5	746.3	645.2	601.2	588.2	596.0
30°	9491.9	8470.9	5584.2	2645.7	1360.4	795.5	697.1	702.2	681.5	616.7	596.0
32.5°	10321.1	8965.9	5742.3	2469.5	1215.3	658.2	510.5	469.0	523.4	533.8	551.9
35°	10852.3	9468.6	5822.6	2365.8	1140.2	562.3	432.7	393.9	380.9	383.5	393.9
37.5°	11839.6	10147.5	5923.7	2257.0	1083.2	489.8	391.3	355.0	336.9	336.9	347.2
40°	12430.4	10686.5	6061.0	2197.4	1026.1	445.7	355.0	323.9	308.4	308.4	313.5
42.5°	12578.1	10953.4	6014.4	2176.7	961.4	435.3	323.9	300.6	282.5	279.9	277.3
45°	12842.4	11360.2	6022.2	2153.4	894.0	396.5	305.8	279.9	253.9	251.4	248.8
47.5°	13132.6	11653.0	6037.7	2062.7	829.2	331.7	318.7	259.1	228.0	222.9	222.9
50°	12883.9	11886.2	6172.4	1972.0	746.3	269.5	313.5	243.6	202.1	194.3	196.9
52.5°	12915.0	12160.9	6457.5	1845.0	642.6	215.1	253.9	230.6	184.0	171.0	173.6
55°	12417.4	11870.7	6496.4	1710.2	502.7	165.8	194.3	202.1	155.5	150.3	150.3
57.5°	10689.1	10051.6	5731.9	1386.3	331.7	137.3	139.9	176.2	134.7	129.6	132.2
60°	9147.2	8069.3	4612.5	914.7	207.3	108.8	101.1	178.8	119.2	116.6	124.4
62.5°	8338.8	6631.1	3498.2	567.5	142.5	82.9	70.0	145.1	103.7	103.7	114.0
65°	6024.7	4454.4	2034.2	298.0	101.1	64.8	51.8	82.9	85.5	88.1	93.3
67.5°	3731.5	2249.2	857.7	145.1	67.4	44.1	33.7	51.8	57.0	57.0	62.2
70°	1842.4	896.6	285.0	82.9	51.8	36.3	23.3	28.5	28.5	25.9	28.5
72.5°	570.1	269.5	72.6	51.8	36.3	23.3	13.0	10.4	5.2	0.0	2.6
75°	64.8	51.8	46.6	36.3	23.3	10.4	2.6	0.0	0.0	0.0	0.0
77.5°	38.9	44.1	44.1	36.3	23.3	7.8	0.0	0.0	0.0	0.0	0.0
80°	31.1	33.7	36.3	33.7	20.7	10.4	0.0	0.0	0.0	0.0	0.0
82.5°	38.9	44.1	49.2	44.1	28.5	13.0	5.2	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	7.8	2.6	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





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3
2.5°	5680.1	5623.1	5703.4	5584.2	5581.6	5584.2	5550.5	5519.4	5568.7	5700.8	5713.8
5°	4335.2	4457.0	4495.9	4622.9	4552.9	4449.2	4470.0	4400.0	4571.0	4646.2	4586.6
7.5°	3156.2	3148.4	3410.1	3425.7	3459.4	3462.0	3456.8	3319.4	3179.5	3210.6	3303.9
10°	2448.8	2316.6	2443.6	2430.6	2513.5	2490.2	2523.9	2376.2	2425.4	2425.4	2485.0
12.5°	1995.3	1855.4	1832.0	1798.4	1832.0	1845.0	1858.0	1829.4	1912.4	1951.2	1992.7
15°	1523.7	1445.9	1425.2	1360.4	1370.8	1407.1	1438.2	1451.1	1425.2	1484.8	1490.0
17.5°	1106.5	1103.9	1116.8	1114.3	1103.9	1096.1	1093.5	1059.8	1049.5	1054.7	1075.4
20°	839.6	860.3	904.4	948.4	971.7	943.2	904.4	847.4	824.0	829.2	831.8
22.5°	717.8	748.9	808.5	857.7	881.0	829.2	759.2	710.0	699.6	697.1	694.5
25°	650.4	686.7	730.7	746.3	743.7	712.6	660.8	640.0	634.9	629.7	606.4
27.5°	614.1	627.1	634.9	653.0	660.8	640.0	627.1	596.0	590.8	590.8	575.3
30°	593.4	585.6	596.0	583.0	593.4	577.9	580.4	580.4	567.5	572.7	572.7
32.5°	551.9	554.5	554.5	528.6	536.4	518.3	536.4	551.9	554.5	557.1	577.9
35°	404.2	450.9	474.2	474.2	482.0	469.0	466.4	448.3	425.0	401.6	391.3
37.5°	355.0	373.1	404.2	422.4	435.3	425.0	401.6	373.1	360.2	349.8	339.5
40°	316.1	331.7	352.4	373.1	399.1	386.1	349.8	336.9	321.3	321.3	311.0
42.5°	285.0	292.8	305.8	336.9	365.4	339.5	313.5	303.2	295.4	292.8	290.2
45°	256.5	259.1	272.1	298.0	331.7	305.8	279.9	266.9	269.5	272.1	269.5
47.5°	230.6	235.8	243.6	274.7	295.4	282.5	253.9	246.2	246.2	246.2	248.8
50°	199.5	212.5	228.0	253.9	269.5	261.7	238.4	228.0	222.9	222.9	225.4
52.5°	178.8	189.2	209.9	241.0	261.7	248.8	225.4	209.9	199.5	196.9	202.1
55°	155.5	173.6	207.3	230.6	259.1	246.2	220.3	202.1	184.0	181.4	181.4
57.5°	139.9	168.4	199.5	228.0	251.4	241.0	220.3	196.9	173.6	171.0	171.0
60°	132.2	163.3	194.3	220.3	251.4	235.8	217.7	191.8	165.8	165.8	163.3
62.5°	124.4	152.9	184.0	209.9	241.0	228.0	209.9	184.0	158.1	158.1	152.9
65°	103.7	132.2	152.9	176.2	209.9	196.9	178.8	160.7	139.9	134.7	137.3
67.5°	72.6	90.7	111.4	134.7	155.5	150.3	142.5	129.6	111.4	108.8	106.2
70°	36.3	49.2	67.4	90.7	108.8	103.7	98.5	88.1	77.7	75.1	75.1
72.5°	5.2	15.5	28.5	41.5	57.0	59.6	57.0	54.4	51.8	49.2	51.8
75°	0.0	0.0	0.0	10.4	23.3	28.5	33.7	38.9	38.9	33.7	41.5
77.5°	0.0	0.0	0.0	0.0	2.6	13.0	25.9	33.7	41.5	36.3	49.2
80°	0.0	0.0	0.0	0.0	2.6	15.5	25.9	36.3	41.5	36.3	51.8
82.5°	0.0	0.0	0.0	0.0	2.6	18.1	25.9	33.7	38.9	36.3	46.6
85°	0.0	0.0	0.0	0.0	7.8	15.5	10.4	5.2	2.6	2.6	7.8
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: P530029

CATALOG NUMBER: GALN-SA5B-727-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3
2.5°	5786.3	5970.3	6167.3	6242.4	6475.6	6651.8	6771.0	7027.6	7066.4	7069.0
5°	4648.8	4742.1	5078.9	5237.0	5584.2	5853.7	6141.3	6556.0	6833.2	6854.0
7.5°	3303.9	3563.0	3705.5	4117.6	4545.1	4967.5	5395.1	5877.0	6198.4	6206.1
10°	2658.7	2827.1	3081.0	3389.4	3749.6	4179.7	4749.8	5309.5	5636.0	5716.4
12.5°	2140.4	2435.8	2726.0	3044.8	3319.4	3643.3	4257.5	5003.8	5273.3	5433.9
15°	1648.1	1917.6	2259.6	2632.7	2943.7	3376.4	4076.1	4928.6	5382.1	5436.5
17.5°	1215.3	1456.3	1772.4	2124.9	2591.3	3205.4	4107.2	5309.5	5737.1	5827.8
20°	873.3	1013.2	1262.0	1671.4	2264.8	3005.9	4138.3	5695.6	6346.1	6501.5
22.5°	691.9	748.9	912.1	1274.9	1899.4	2796.0	4358.5	6434.2	7183.0	7408.5
25°	601.2	632.3	710.0	1005.4	1668.8	2775.3	4711.0	7320.4	8297.3	8460.6
27.5°	580.4	585.6	653.0	922.5	1544.4	2637.9	4845.7	7950.1	8991.8	9157.6
30°	611.5	694.5	699.6	780.0	1313.8	2365.8	4915.7	8559.0	9580.0	9701.8
32.5°	528.6	502.7	520.8	603.8	1155.7	2207.8	5047.8	9090.2	10251.1	10336.6
35°	368.0	386.1	427.6	523.4	1010.6	2041.9	5081.5	9675.9	10888.6	10976.7
37.5°	339.5	349.8	383.5	445.7	888.8	1948.6	5034.9	10103.4	11549.4	11671.2
40°	316.1	329.1	347.2	404.2	798.1	1845.0	4970.1	10489.5	11953.6	12254.2
42.5°	298.0	308.4	323.9	386.1	720.4	1741.3	4879.4	11033.7	12316.4	12578.1
45°	277.3	292.8	311.0	375.7	676.3	1671.4	4812.0	11000.0	12526.3	12666.2
47.5°	256.5	282.5	303.2	349.8	663.4	1637.7	4840.5	10873.0	12355.3	12259.4
50°	235.8	269.5	305.8	290.2	632.3	1570.3	4874.2	11046.7	11948.4	11930.3
52.5°	217.7	256.5	285.0	238.4	562.3	1505.5	5200.7	11274.7	12236.1	11995.1
55°	191.8	230.6	228.0	191.8	456.1	1456.3	5457.3	11279.9	12041.7	12132.4
57.5°	173.6	204.7	178.8	160.7	336.9	1217.9	5040.1	9458.2	10308.1	10468.8
60°	160.7	199.5	134.7	127.0	220.3	878.4	4400.0	7325.6	8193.6	8496.8
62.5°	147.7	189.2	106.2	103.7	152.9	624.5	3617.4	6131.0	7061.3	7473.3
65°	129.6	134.7	85.5	80.3	108.8	336.9	2202.6	4221.2	5278.5	5431.3
67.5°	106.2	103.7	70.0	64.8	72.6	163.3	971.7	2114.5	3060.3	3316.8
70°	85.5	85.5	59.6	51.8	51.8	75.1	253.9	842.2	1383.7	1531.5
72.5°	62.2	64.8	46.6	41.5	38.9	36.3	41.5	168.4	362.8	463.8
75°	54.4	57.0	46.6	36.3	28.5	23.3	18.1	15.5	20.7	33.7
77.5°	59.6	59.6	49.2	33.7	25.9	18.1	10.4	5.2	5.2	2.6
80°	75.1	77.7	64.8	44.1	31.1	20.7	13.0	5.2	2.6	2.6
82.5°	80.3	88.1	72.6	54.4	38.9	23.3	13.0	2.6	0.0	0.0
85°	20.7	33.7	57.0	49.2	38.9	23.3	13.0	2.6	0.0	0.0
87.5°	0.0	2.6	7.8	7.8	10.4	10.4	7.8	2.6	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)