

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: STREETWORKS

Report Number: P324728

Luminaire Tested: **GAN-SA4C-727-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19532 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

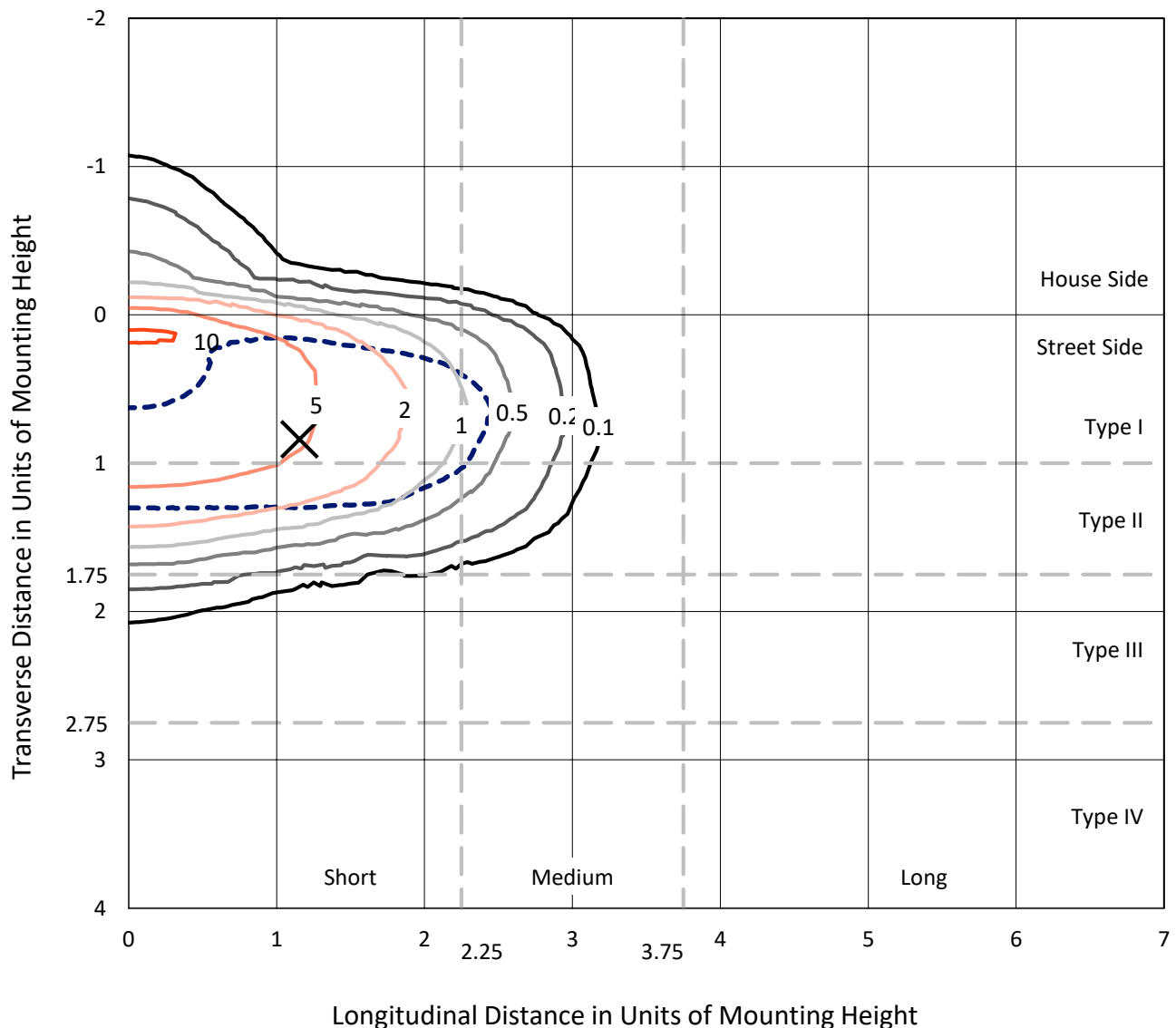
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324728
 CATALOG NUMBER: GAN-SA4C-727-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

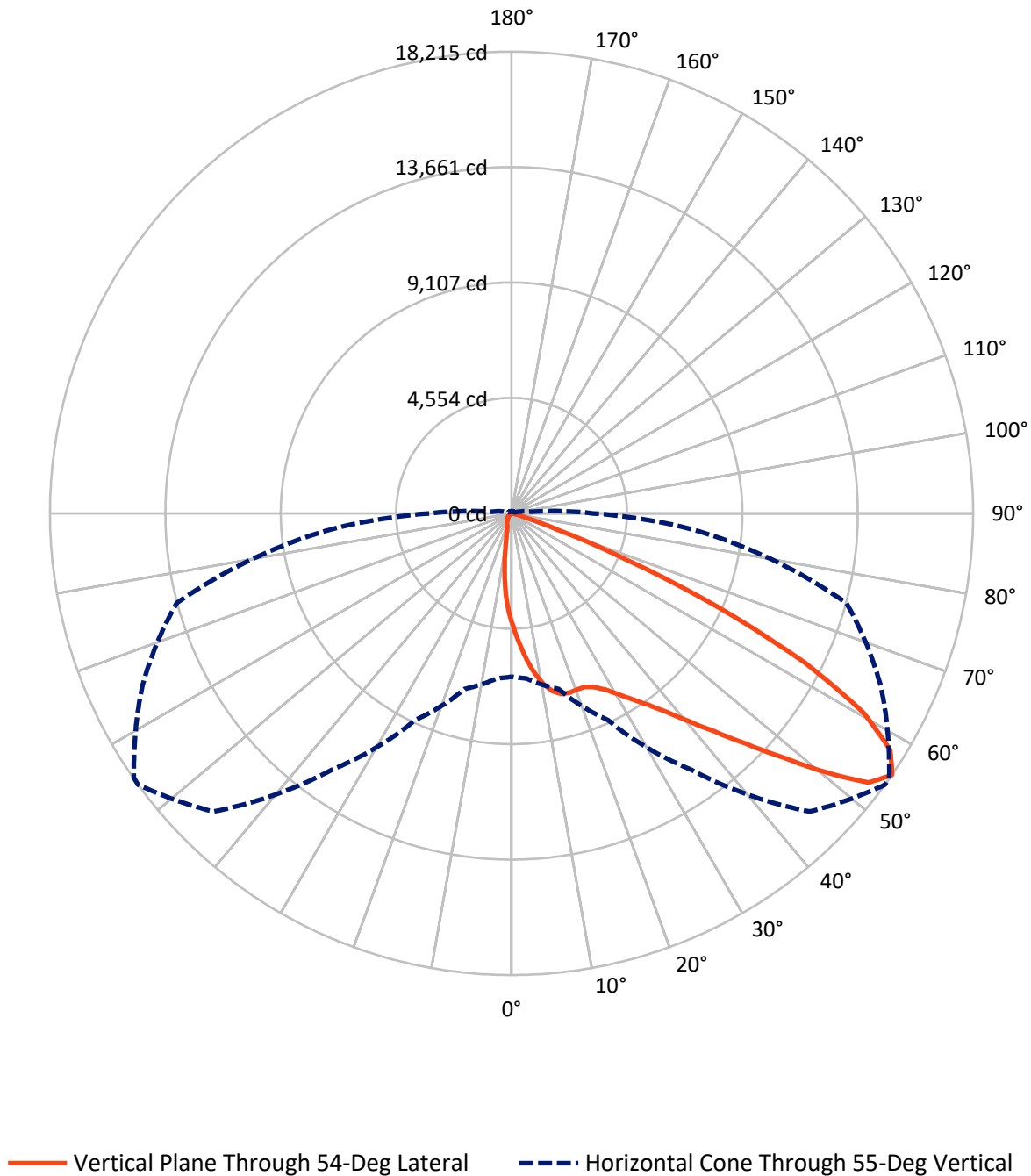
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - N/A

REPORT NUMBER: P324728
CATALOG NUMBER: GAN-SA4C-727-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P324728

CATALOG NUMBER: GAN-SA4C-727-U-AFL-HSS

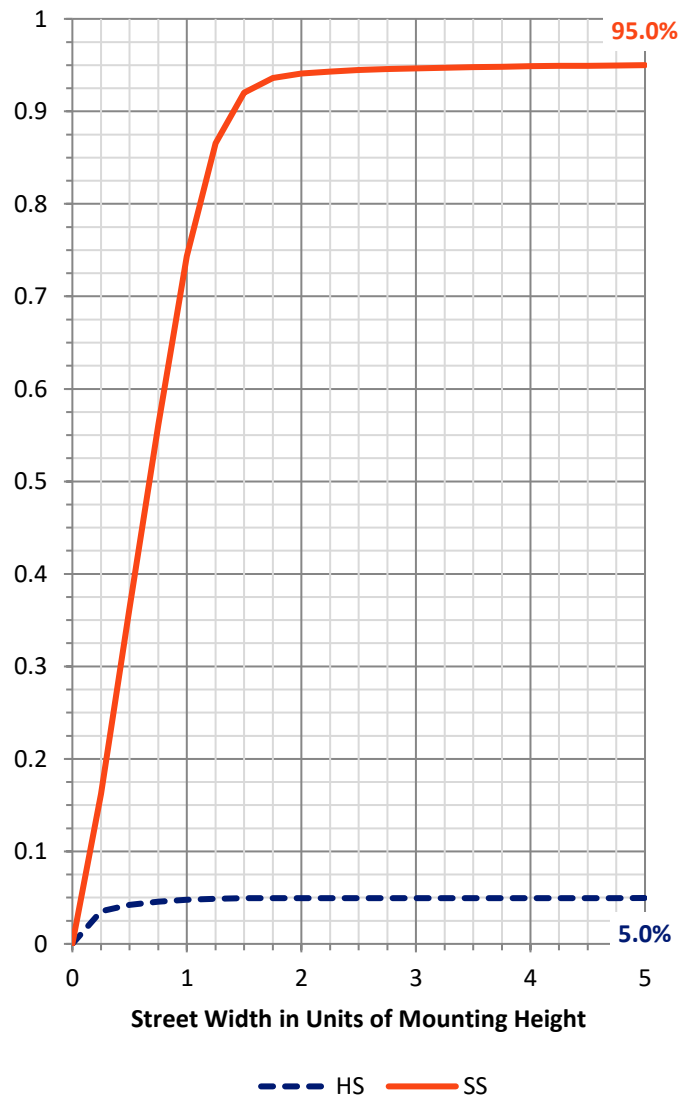
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	974.5	0.0	974.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	18557.5	0.0	18557.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	19532.0	0.0	19532.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.8	2.1
10°-20°	1104.8	5.7
20°-30°	1886.2	9.7
30°-40°	3027.1	15.5
40°-50°	4837.3	24.8
50°-60°	5183.3	26.5
60°-70°	2661.2	13.6
70°-80°	403.1	2.1
80°-90°	26.2	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°	19532.0	100.0
0°-180°	19532.0	100.0

Coefficient of Utilization



REPORT NUMBER: P324728

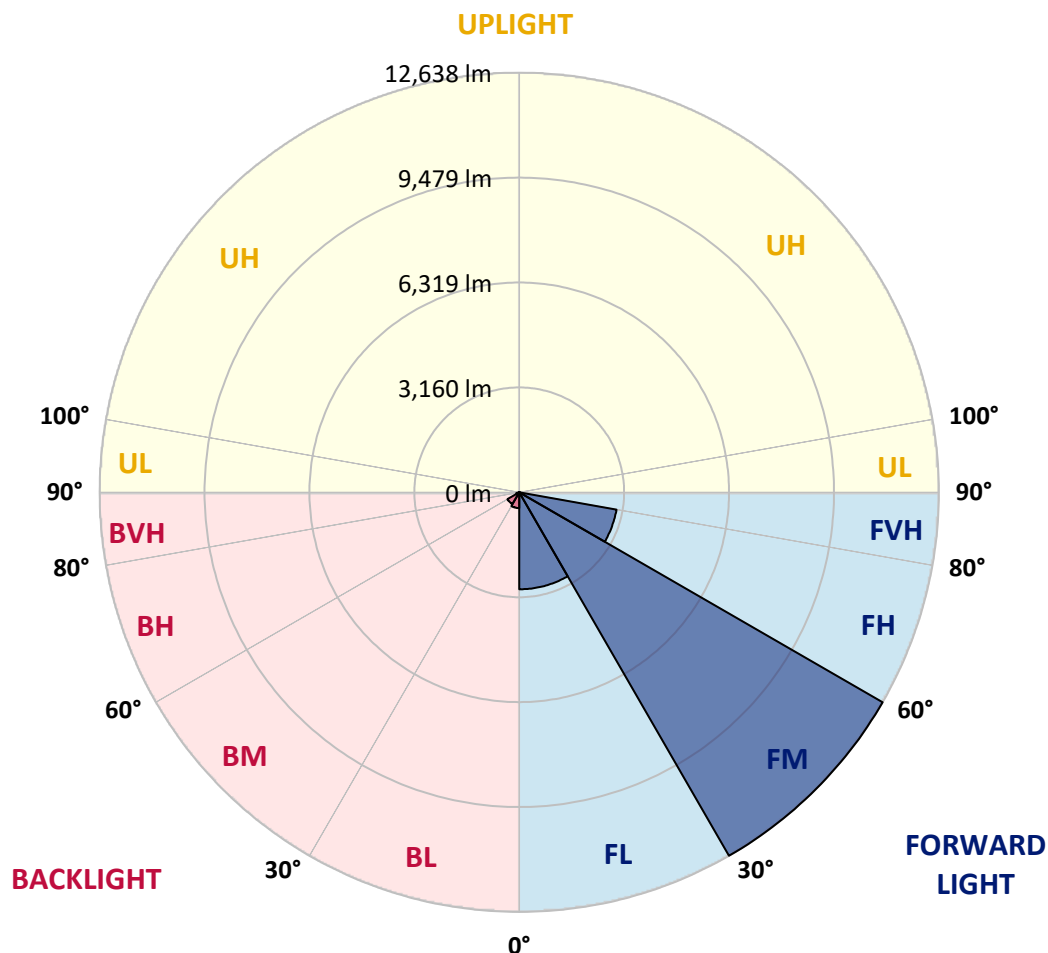
CATALOG NUMBER: GAN-SA4C-727-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2919.7	14.9			
FM	(30°-60°)	12638.1	64.7			
FH	(60°-80°)	2974.5	15.2			G2/5000
FVH	(80°-90°)	25.2	0.1			G1/100
BL	(0°-30°)	474.1	2.4	B1/500		
BM	(30°-60°)	409.5	2.1	B1/1000		
BH	(60°-80°)	89.8	0.5	B0/110		G0/110
BVH	(80°-90°)	1.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



REPORT NUMBER: P324728

CATALOG NUMBER: GAN-SA4C-727-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4374.4	4374.4	4374.4	4374.4	4374.4	4374.4	4374.4	4374.4	4374.4	4374.4	4374.4
2.5°	5489.5	5407.7	5410.2	5373.1	5237.3	5131.0	5020.5	4994.4	4822.3	4641.8	4468.0
5°	6438.4	6378.5	6364.2	6292.5	6103.6	5903.6	5689.4	5639.6	5303.1	4933.6	4570.1
7.5°	6926.0	6926.8	6915.0	6888.9	6770.8	6576.8	6315.3	6263.0	5805.0	5250.8	4676.4
10°	6784.3	6816.3	6882.1	6969.0	7059.2	7034.8	6838.2	6791.0	6293.3	5586.5	4794.4
12.5°	6453.6	6457.8	6531.2	6673.8	6933.6	7200.1	7203.5	7187.5	6759.8	5937.4	4924.3
15°	6289.1	6305.2	6332.1	6424.1	6670.4	7097.2	7402.5	7425.3	7187.5	6310.2	5062.7
17.5°	6397.1	6419.9	6397.1	6408.1	6550.6	6934.4	7437.1	7495.3	7561.1	6678.8	5193.4
20°	6689.8	6710.9	6670.4	6625.7	6653.5	6887.2	7412.7	7491.1	7853.8	7006.1	5303.1
22.5°	7084.5	7093.0	7031.4	6958.0	6937.8	7047.4	7432.9	7513.9	8088.3	7302.2	5372.2
25°	7518.9	7526.5	7449.8	7365.4	7317.4	7362.1	7599.1	7659.8	8295.0	7584.7	5411.9
27.5°	7992.1	7998.9	7902.7	7799.0	7743.3	7745.0	7873.2	7938.2	8515.1	7907.0	5443.9
30°	8492.3	8489.0	8400.4	8256.2	8185.3	8183.6	8268.0	8333.8	8834.0	8320.3	5487.8
32.5°	9054.1	9047.4	8921.7	8742.9	8662.7	8674.5	8749.6	8787.6	9229.6	8760.6	5566.2
35°	9793.9	9774.5	9584.7	9362.8	9215.2	9211.0	9274.3	9304.6	9734.0	9293.7	5697.0
37.5°	10753.8	10736.1	10478.8	10156.6	9949.1	9871.5	9946.5	9985.3	10453.5	9977.7	5907.0
40°	11700.2	11682.5	11529.8	11234.6	10914.9	10728.5	10787.5	10828.8	11351.8	10807.7	6171.9
42.5°	12353.0	12368.2	12421.4	12445.8	12146.4	11755.0	11782.0	11825.0	12295.7	11695.1	6474.7
45°	12525.1	12558.0	12858.3	13447.9	13560.1	13254.7	12972.2	12995.8	13254.7	12582.5	6777.5
47.5°	12008.0	12068.8	12648.3	13744.8	14694.6	14910.5	14375.7	14344.5	14175.0	13300.3	6992.6
50°	10833.1	10888.7	11639.4	13261.5	15038.7	16491.2	16057.7	15965.7	14982.2	13729.6	7068.5
52.5°	9132.6	9200.0	9809.9	11739.8	14390.1	17196.4	17650.2	17573.5	15574.4	13763.4	7081.2
55°	6449.4	6531.2	7176.5	8997.6	12334.5	16635.5	18214.5	18191.7	16066.1	13674.0	7108.2
57.5°	3624.5	3683.6	4379.4	5767.8	9033.9	14489.6	17624.9	17775.9	16363.0	13518.8	7148.7
60°	1609.4	1625.4	1985.6	2871.3	5288.7	11073.5	15937.1	16191.8	16108.3	13311.3	7217.0
62.5°	892.4	878.9	878.9	1193.6	2298.5	6855.1	12995.8	13416.7	15021.0	13065.8	7220.3
65°	699.3	686.6	650.3	655.4	875.6	3042.5	8999.3	9747.5	12956.1	12346.3	6977.4
67.5°	593.0	582.0	545.7	531.4	544.1	1003.8	4944.6	5721.5	9831.0	10476.3	6043.7
70°	501.0	493.4	474.9	457.2	425.1	496.0	1892.0	2420.0	6058.0	6969.0	4125.6
72.5°	403.2	399.8	406.6	391.4	352.6	330.7	647.0	783.6	2721.1	3110.0	1699.6
75°	347.5	345.8	349.2	334.0	290.2	230.3	329.0	359.3	767.6	760.8	344.1
77.5°	226.1	228.6	289.3	282.6	249.7	153.5	170.4	183.9	232.8	174.6	104.6
80°	144.2	142.6	146.8	234.5	224.4	117.2	85.2	89.4	112.2	86.0	50.6
82.5°	87.7	86.0	96.2	109.7	113.0	81.8	52.3	53.1	70.0	55.7	27.0
85°	7.6	10.1	58.2	54.0	38.8	25.3	25.3	27.0	37.1	32.9	15.2
87.5°	0.0	0.0	10.1	15.2	8.4	9.3	9.3	10.1	14.3	14.3	7.6
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: P324728

CATALOG NUMBER: GAN-SA4C-727-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4374.4	4374.4	4374.4	4374.4	4374.4	4374.4	4374.4	4374.4	4374.4	4374.4	4374.4
2.5°	4377.8	4290.0	4112.9	3942.5	3798.3	3659.1	3500.5	3343.6	3270.2	3240.7	3210.4
5°	4385.3	4204.8	3839.6	3471.8	3090.6	2747.3	2454.6	2154.3	2004.2	1938.4	1908.0
7.5°	4395.5	4120.5	3530.0	2912.6	2298.5	1832.9	1426.4	1164.9	1051.8	1034.1	990.3
10°	4397.2	4018.4	3170.7	2295.2	1541.1	1105.0	850.2	715.3	665.5	657.1	642.7
12.5°	4400.5	3897.8	2771.7	1699.6	1027.4	738.9	614.9	570.2	556.7	555.9	555.9
15°	4410.7	3771.3	2357.6	1224.8	738.1	585.4	539.8	522.1	517.1	519.6	518.8
17.5°	4410.7	3622.0	1951.0	912.7	596.4	526.3	501.0	489.2	487.5	490.1	490.9
20°	4378.6	3440.6	1578.2	710.2	528.9	488.4	465.6	454.6	450.4	452.1	453.0
22.5°	4301.8	3217.9	1274.5	587.9	484.2	453.8	429.3	412.5	405.7	406.6	406.6
25°	4182.1	2953.9	997.0	508.6	447.9	416.7	388.0	368.6	364.4	363.5	365.2
27.5°	4028.5	2662.1	793.7	447.9	404.9	375.4	346.7	330.7	327.3	328.1	329.0
30°	3877.6	2359.3	625.9	396.4	356.8	329.0	307.0	299.4	299.4	302.0	302.8
32.5°	3739.2	2068.3	495.1	351.7	313.8	288.5	275.8	275.0	279.2	280.9	281.7
35°	3620.3	1799.2	409.9	317.2	280.0	258.1	253.9	257.3	262.3	265.7	266.5
37.5°	3535.9	1558.8	358.5	288.5	253.9	236.2	235.3	242.1	248.8	256.4	258.1
40°	3500.5	1355.5	323.1	263.2	232.8	219.3	216.8	226.1	238.7	249.7	251.4
42.5°	3471.0	1189.3	292.7	238.7	215.9	196.5	195.7	207.5	222.7	233.6	236.2
45°	3445.7	1056.1	264.9	212.6	194.0	168.7	171.2	186.4	198.2	210.0	212.6
47.5°	3393.4	946.4	234.5	184.7	160.3	144.2	149.3	162.8	172.1	189.8	192.3
50°	3299.8	857.0	203.3	151.0	130.7	124.8	132.4	141.7	153.5	168.7	170.4
52.5°	3236.5	789.5	176.3	126.5	108.0	109.7	117.2	120.6	127.4	133.3	131.6
55°	3200.2	752.4	154.4	109.7	91.9	97.0	98.7	94.5	91.1	85.2	82.7
57.5°	3196.0	718.7	137.5	95.3	81.0	83.5	77.6	63.3	51.5	44.7	43.0
60°	3189.3	677.3	124.0	80.1	71.7	68.3	55.7	34.6	24.5	22.8	22.8
62.5°	3115.9	613.2	113.9	67.5	60.7	51.5	32.1	16.0	13.5	14.3	14.3
65°	2882.2	523.8	103.8	54.8	48.1	37.1	16.0	9.3	5.1	5.9	5.9
67.5°	2450.4	417.5	92.8	42.2	36.3	23.6	9.3	4.2	0.0	0.0	0.0
70°	1640.6	259.0	78.4	29.5	23.6	14.3	6.7	0.8	0.0	0.0	0.0
72.5°	629.3	140.0	63.3	17.7	15.2	10.1	4.2	0.0	0.0	0.0	0.0
75°	141.7	91.9	43.9	12.7	11.0	6.7	1.7	0.0	0.0	0.0	0.0
77.5°	54.0	66.6	25.3	8.4	7.6	4.2	0.0	0.0	0.0	0.0	0.0
80°	26.1	39.6	11.8	5.1	4.2	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	13.5	15.2	5.1	2.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.6	7.6	2.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	2.5	0.8	0.8	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

(END OF REPORT)