

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: P323433

Luminaire Tested: **GAN-SA9A-727-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323433
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29765 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

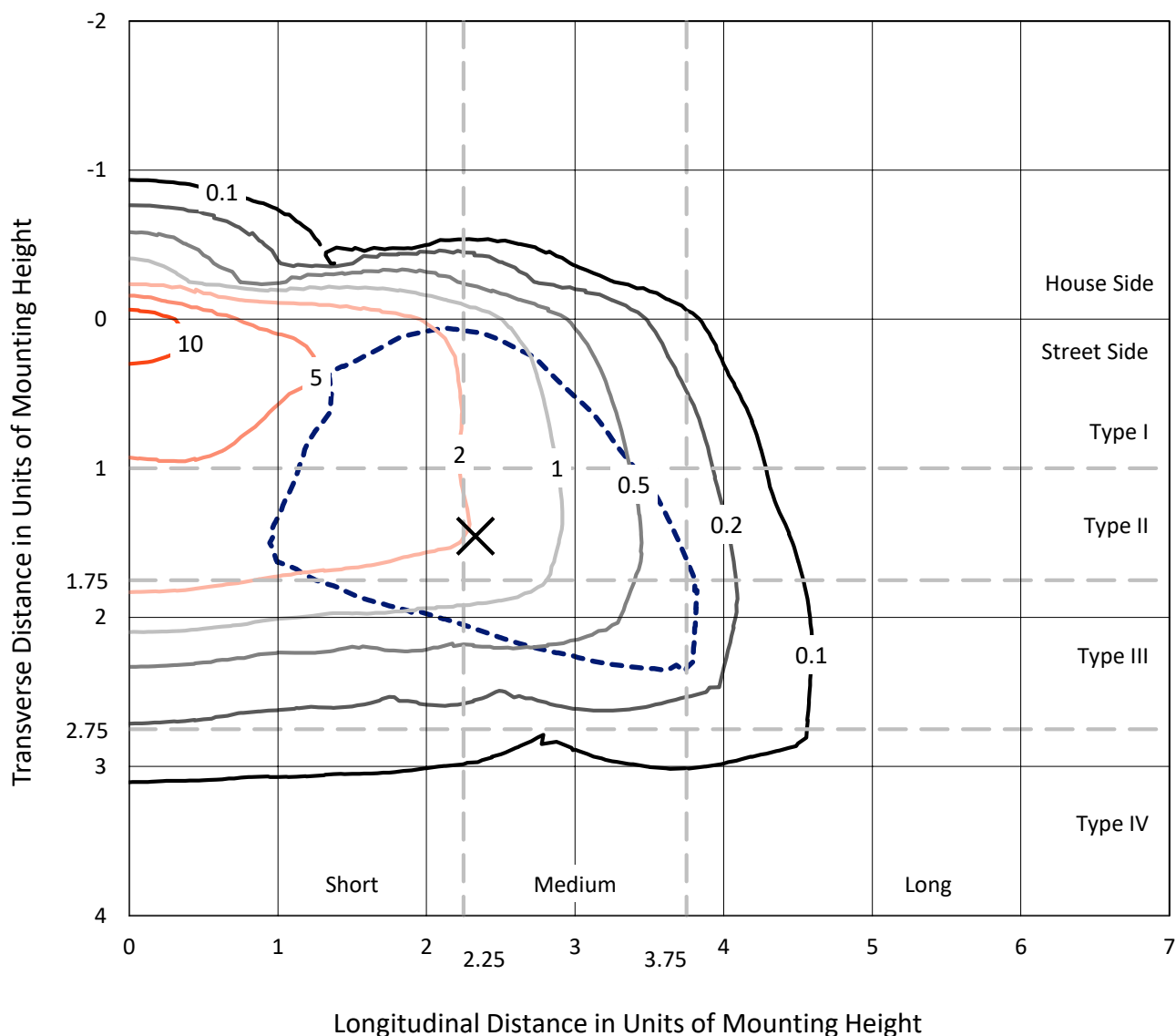
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323433
 CATALOG NUMBER: GAN-SA9A-727-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

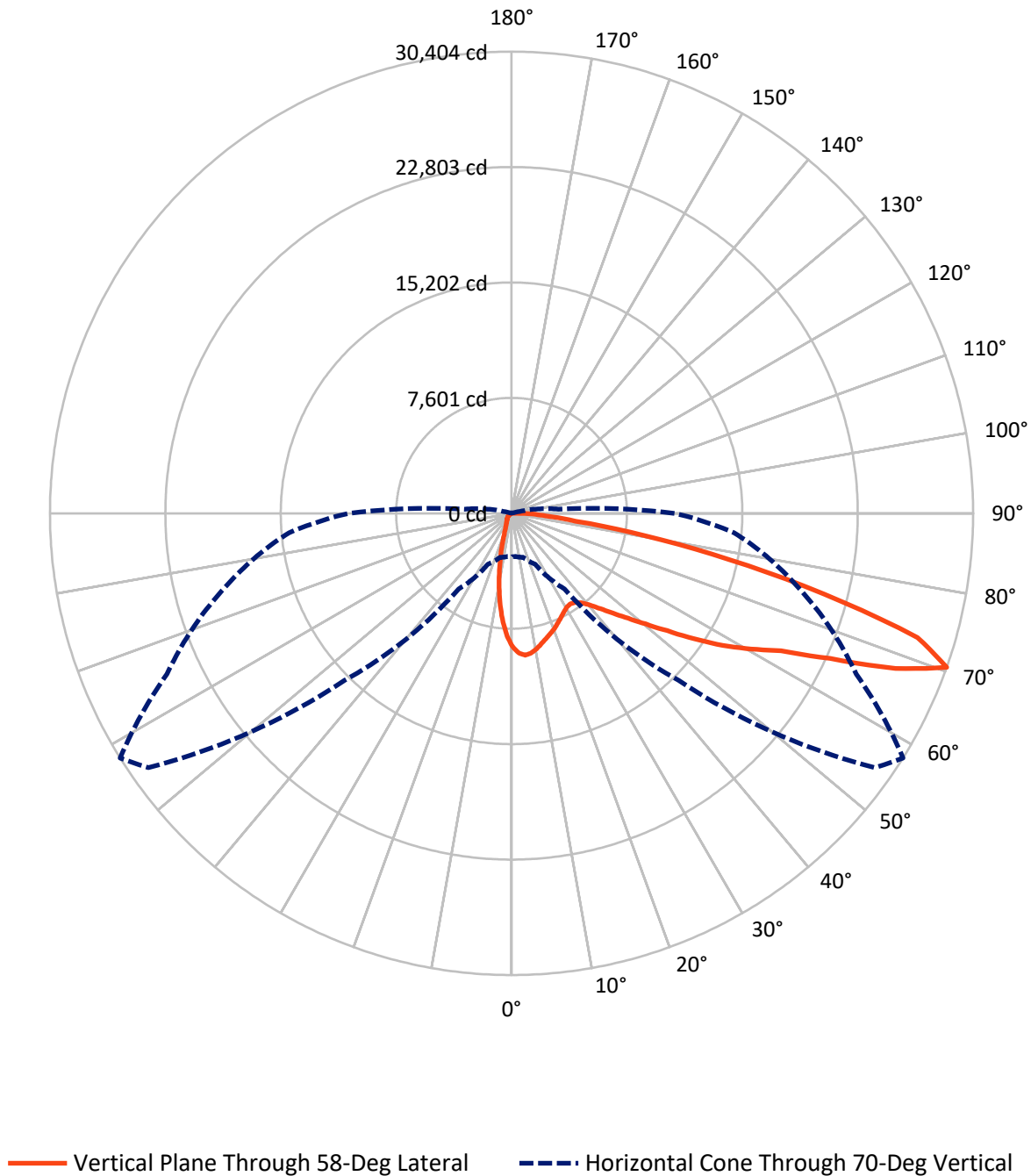
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P323433
CATALOG NUMBER: GAN-SA9A-727-U-SL3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P323433

CATALOG NUMBER: GAN-SA9A-727-U-SL3-HSS

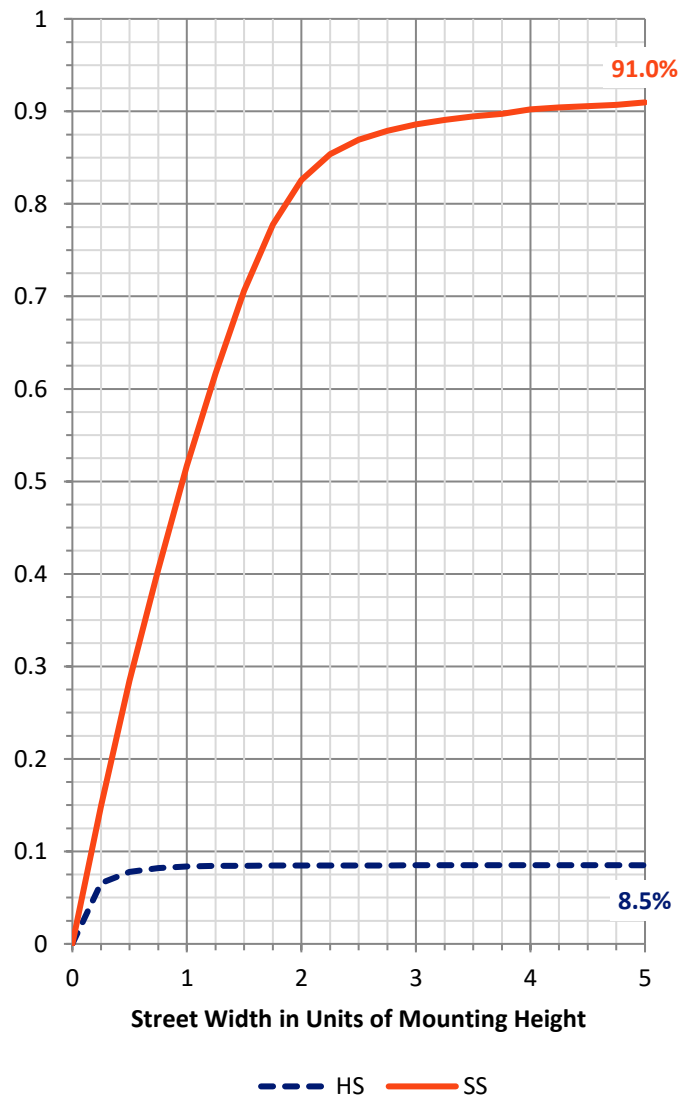
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2547.2	0.0	2547.2
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	27217.8	0.0	27217.8
	% Fixture	91.4	0.0	91.4
Total	Lumens	29765.0	0.0	29765.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	719.0	2.4
10°-20°	1509.0	5.1
20°-30°	1983.8	6.7
30°-40°	2627.3	8.8
40°-50°	3927.1	13.2
50°-60°	6291.0	21.1
60°-70°	7929.8	26.6
70°-80°	4277.3	14.4
80°-90°	500.7	1.7
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°	29765.0	100.0
0°-180°	29765.0	100.0

Coefficient of Utilization



REPORT NUMBER: P323433

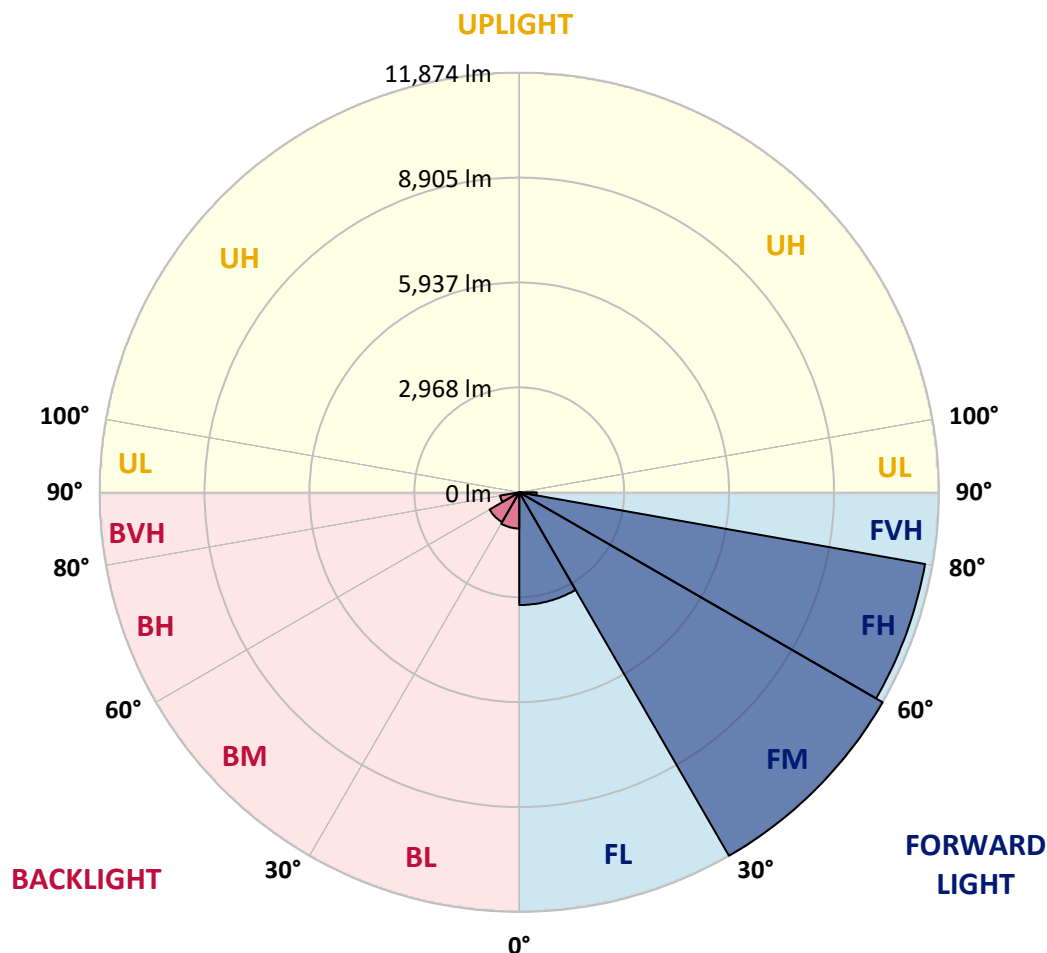
CATALOG NUMBER: GAN-SA9A-727-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3188.4	10.7			
FM	(30°-60°)	11873.7	39.9			
FH	(60°-80°)	11659.3	39.2			G4/12000
FVH	(80°-90°)	496.3	1.7			G3/500
BL	(0°-30°)	1023.4	3.4	B3/2500		
BM	(30°-60°)	971.7	3.3	B1/1000		
BH	(60°-80°)	547.8	1.8	B2/1000		G2/1000
BVH	(80°-90°)	4.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



REPORT NUMBER: P323433

CATALOG NUMBER: GAN-SA9A-727-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8792.4	8792.4	8792.4	8792.4	8792.4	8792.4	8792.4	8792.4	8792.4	8792.4	8792.4
2.5°	9521.4	9497.9	9489.3	9474.4	9417.5	9361.8	9251.6	9220.7	9151.4	8986.8	8812.2
5°	9528.9	9527.6	9553.6	9547.4	9527.6	9501.6	9422.4	9381.6	9264.0	9028.8	8709.5
7.5°	9069.7	9093.2	9151.4	9198.4	9252.9	9323.4	9333.3	9293.7	9197.2	8943.4	8520.2
10°	8453.3	8490.4	8572.1	8665.0	8807.3	8948.4	9074.6	9069.7	9036.3	8786.3	8292.4
12.5°	7835.7	7879.0	7973.1	8110.5	8312.2	8542.4	8767.7	8798.6	8854.3	8645.2	8082.0
15°	7294.9	7332.0	7424.8	7593.1	7843.1	8152.6	8483.0	8540.0	8683.5	8535.0	7906.3
17.5°	6835.7	6859.2	6927.3	7114.2	7403.8	7778.8	8208.3	8319.6	8533.8	8448.4	7754.0
20°	6515.1	6518.8	6563.4	6694.6	6984.2	7403.8	7923.6	8083.3	8375.3	8374.1	7596.8
22.5°	6356.7	6344.3	6353.0	6428.5	6641.4	7046.1	7638.9	7828.3	8233.0	8311.0	7437.2
25°	6327.0	6317.1	6292.3	6302.2	6431.0	6732.9	7351.8	7570.9	8108.0	8272.6	7298.6
27.5°	6419.8	6429.7	6387.6	6343.1	6353.0	6530.0	7096.8	7350.5	8006.5	8272.6	7200.8
30°	6606.7	6611.7	6580.7	6522.5	6444.6	6473.0	6919.8	7173.6	7955.8	8329.5	7138.9
32.5°	6813.4	6840.6	6836.9	6789.9	6678.5	6563.4	6877.8	7109.2	7952.1	8455.8	7132.7
35°	7069.6	7100.5	7152.5	7142.6	7026.3	6836.9	7021.3	7203.3	8025.1	8663.7	7199.6
37.5°	7341.9	7388.9	7500.3	7553.5	7478.0	7263.9	7343.1	7473.1	8220.6	9000.4	7369.1
40°	7605.5	7658.7	7861.7	8070.9	8013.9	7793.6	7830.8	7934.7	8568.4	9484.3	7690.9
42.5°	7864.2	7943.4	8241.7	8585.7	8653.8	8478.1	8497.9	8580.8	9084.5	10150.2	8216.9
45°	8173.6	8262.7	8704.6	9129.1	9311.0	9234.3	9318.5	9372.9	9759.1	11030.2	8926.1
47.5°	8627.8	8730.6	9272.7	9756.6	10075.9	10125.4	10295.0	10330.9	10611.8	12055.0	9850.7
50°	9514.0	9542.5	10032.6	10472.0	10932.4	11229.4	11422.5	11449.7	11644.0	13175.0	11005.4
52.5°	10629.1	10647.7	10925.0	11219.5	11743.1	12349.5	12801.3	12839.6	12880.5	14266.7	12145.3
55°	11736.9	11734.4	11917.6	12090.8	12689.9	13571.1	14551.3	14574.9	14281.5	15302.6	13016.6
57.5°	12428.7	12495.6	12774.0	12996.8	13833.5	14963.5	16323.7	16410.3	15753.1	16070.0	13878.0
60°	12208.4	12240.6	12858.2	13682.5	15258.1	16942.5	18117.1	18139.4	16859.6	16836.1	14967.2
62.5°	10401.4	10418.7	11389.1	13088.4	15979.6	19509.5	20280.5	19917.9	18131.9	17899.2	16270.5
65°	7129.0	7241.6	8052.3	10152.6	14654.1	21119.7	23629.7	23029.4	20071.4	19431.5	17448.7
67.5°	4198.2	4174.7	4575.7	6122.8	10762.8	20050.3	27866.2	27269.7	22716.3	20457.5	17103.4
70°	2867.7	2851.6	3005.1	3706.8	6075.7	15553.9	29199.2	30403.5	25051.8	19766.9	14719.7
72.5°	2047.1	2055.8	2282.3	2880.1	3814.5	9062.3	25109.9	27960.3	24320.3	17232.1	11188.6
75°	1389.9	1413.4	1737.7	2362.7	3344.2	4610.3	17818.8	21254.6	19804.0	12524.0	6431.0
77.5°	747.6	773.5	1156.0	1903.5	3023.6	3203.1	11462.1	14628.1	12439.9	5630.2	1863.9
80°	311.9	326.7	540.9	1383.7	2612.7	2813.2	6744.1	8870.4	5301.0	1110.2	415.9
82.5°	134.9	142.3	225.3	825.5	1953.1	2375.1	3570.7	4267.5	1606.5	243.8	209.2
85°	26.0	27.2	92.8	436.9	1246.3	1340.4	2314.5	2268.7	721.6	105.2	152.2
87.5°	0.0	0.0	22.3	137.4	366.4	730.2	1412.2	1394.9	245.1	50.7	56.9
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: P323433

CATALOG NUMBER: GAN-SA9A-727-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8792.4	8792.4	8792.4	8792.4	8792.4	8792.4	8792.4	8792.4	8792.4	8792.4	8792.4
2.5°	8723.1	8637.7	8458.3	8236.7	8067.2	7880.3	7731.8	7543.6	7461.9	7465.7	7421.1
5°	8527.6	8351.8	7954.5	7453.3	7067.1	6668.6	6325.8	5984.2	5782.4	5716.8	5654.9
7.5°	8247.9	7969.4	7335.7	6563.4	5909.9	5271.3	4715.5	4226.7	3917.2	3766.2	3710.5
10°	7932.3	7541.2	6624.0	5606.7	4673.5	3809.6	3089.2	2463.0	2213.0	2043.4	2000.1
12.5°	7655.0	7125.3	5928.5	4625.2	3517.5	2475.3	1788.4	1398.6	1229.0	1162.2	1151.0
15°	7393.9	6736.7	5258.9	3736.5	2435.7	1523.6	1137.4	1005.0	965.4	954.2	954.2
17.5°	7147.6	6366.6	4604.1	2861.5	1611.5	1068.1	941.9	912.2	899.8	898.6	899.8
20°	6890.1	5996.5	3960.6	2096.6	1125.0	904.7	870.1	854.0	850.3	850.3	850.3
22.5°	6643.8	5626.5	3334.3	1497.6	902.3	825.5	808.2	797.1	793.3	792.1	789.6
25°	6407.4	5275.0	2722.9	1058.2	792.1	756.2	741.4	726.5	715.4	709.2	705.5
27.5°	6213.1	4961.8	2153.6	849.0	715.4	684.4	665.9	643.6	616.4	604.0	599.0
30°	6058.4	4675.9	1659.7	716.6	643.6	612.6	584.2	545.8	506.2	485.2	483.9
32.5°	5937.1	4395.0	1260.0	633.7	579.2	540.9	500.0	451.8	406.0	382.4	381.2
35°	5877.7	4147.4	962.9	573.0	522.3	474.0	423.3	370.1	325.5	303.2	300.8
37.5°	5917.3	3938.3	751.3	522.3	474.0	418.3	358.9	303.2	263.6	243.8	242.6
40°	6062.1	3804.6	610.2	479.0	433.2	365.1	300.8	248.8	215.4	199.3	198.0
42.5°	6370.3	3755.1	521.1	443.1	393.6	315.6	250.0	205.5	174.5	163.4	160.9
45°	6885.2	3828.1	460.4	408.4	352.7	268.6	206.7	168.3	141.1	132.4	131.2
47.5°	7570.9	4020.0	417.1	375.0	315.6	226.5	172.0	136.1	115.1	106.4	105.2
50°	8454.6	4324.4	381.2	341.6	281.0	191.8	142.3	107.7	89.1	82.9	82.9
52.5°	9416.2	4687.1	349.0	310.7	246.3	159.7	115.1	82.9	70.5	63.1	63.1
55°	10210.8	5003.9	314.4	287.1	204.2	132.4	87.9	63.1	52.0	48.3	48.3
57.5°	11004.2	5341.8	274.8	246.3	163.4	107.7	66.8	47.0	38.4	35.9	35.9
60°	12032.7	5755.2	236.4	200.5	128.7	81.7	49.5	33.4	28.5	27.2	27.2
62.5°	13163.9	5997.8	201.7	160.9	100.3	60.6	35.9	22.3	21.0	21.0	19.8
65°	13855.8	5654.9	169.6	128.7	78.0	45.8	23.5	16.1	18.6	17.3	14.9
67.5°	12973.3	4427.2	138.6	100.3	60.6	34.7	14.9	11.1	19.8	16.1	12.4
70°	10741.8	3099.1	107.7	70.5	48.3	29.7	9.9	7.4	21.0	16.1	9.9
72.5°	8038.7	2074.3	85.4	47.0	35.9	26.0	8.7	3.7	18.6	13.6	8.7
75°	4392.5	835.4	68.1	29.7	22.3	18.6	6.2	2.5	12.4	9.9	6.2
77.5°	1156.0	220.3	49.5	19.8	12.4	7.4	3.7	1.2	6.2	5.0	2.5
80°	294.6	85.4	32.2	13.6	8.7	3.7	0.0	0.0	1.2	0.0	0.0
82.5°	157.2	35.9	19.8	9.9	5.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	118.8	23.5	11.1	6.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	45.8	7.4	3.7	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

(END OF REPORT)