

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: P322502

Luminaire Tested: **GAN-SA8D-727-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322502
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36931 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

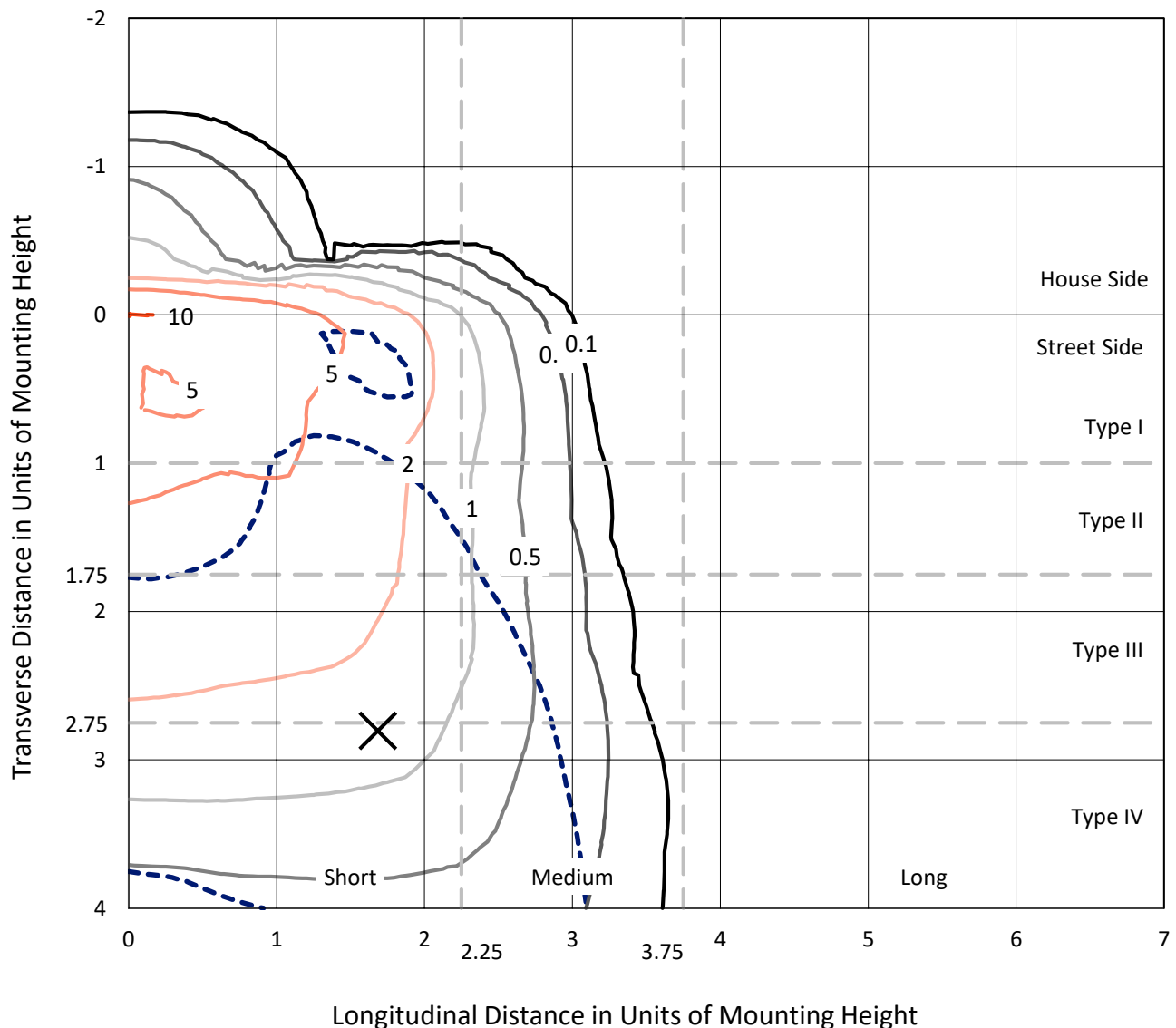
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322502
 CATALOG NUMBER: GAN-SA8D-727-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

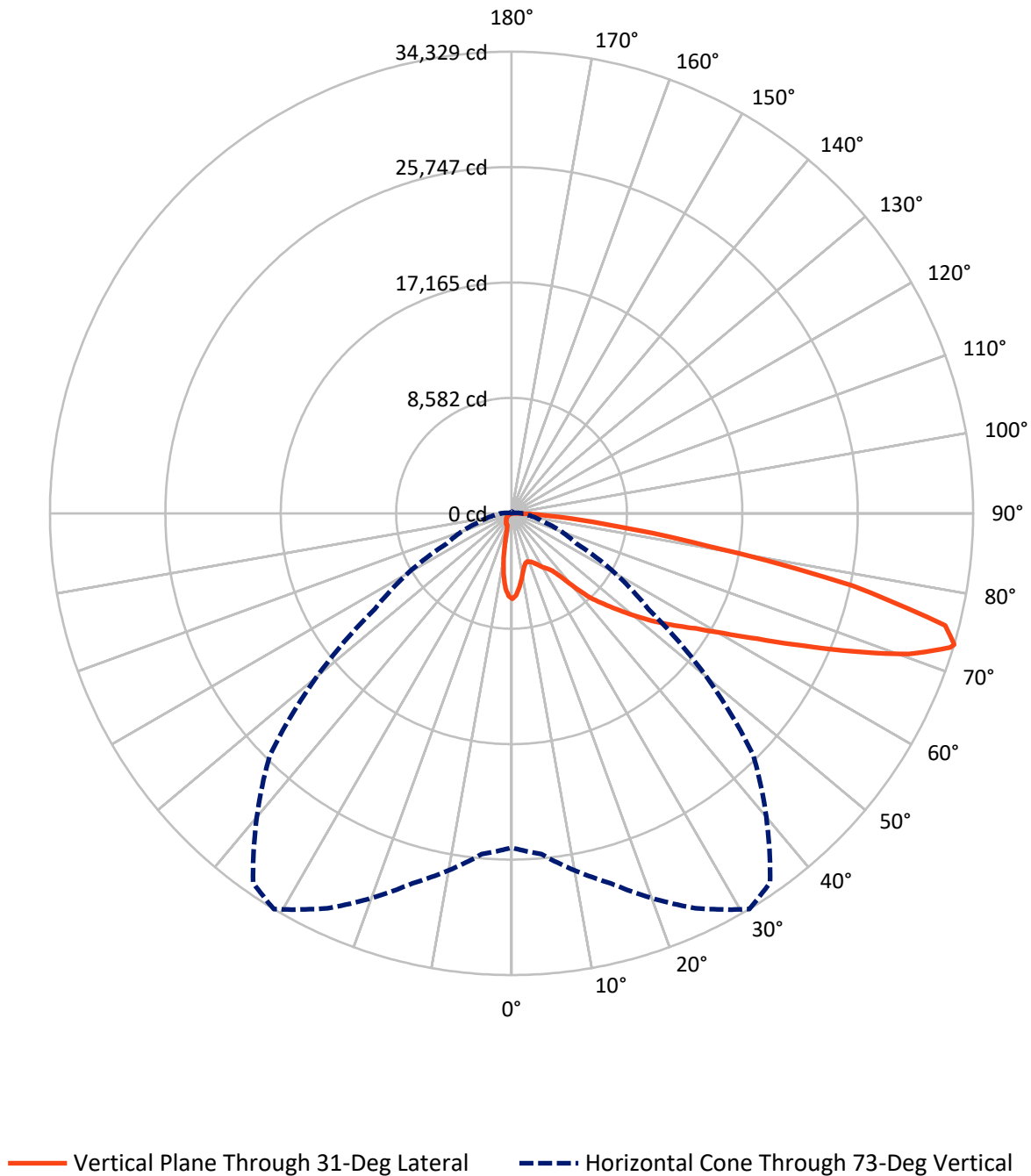
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P322502
CATALOG NUMBER: GAN-SA8D-727-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322502

CATALOG NUMBER: GAN-SA8D-727-U-T4FT-HSS

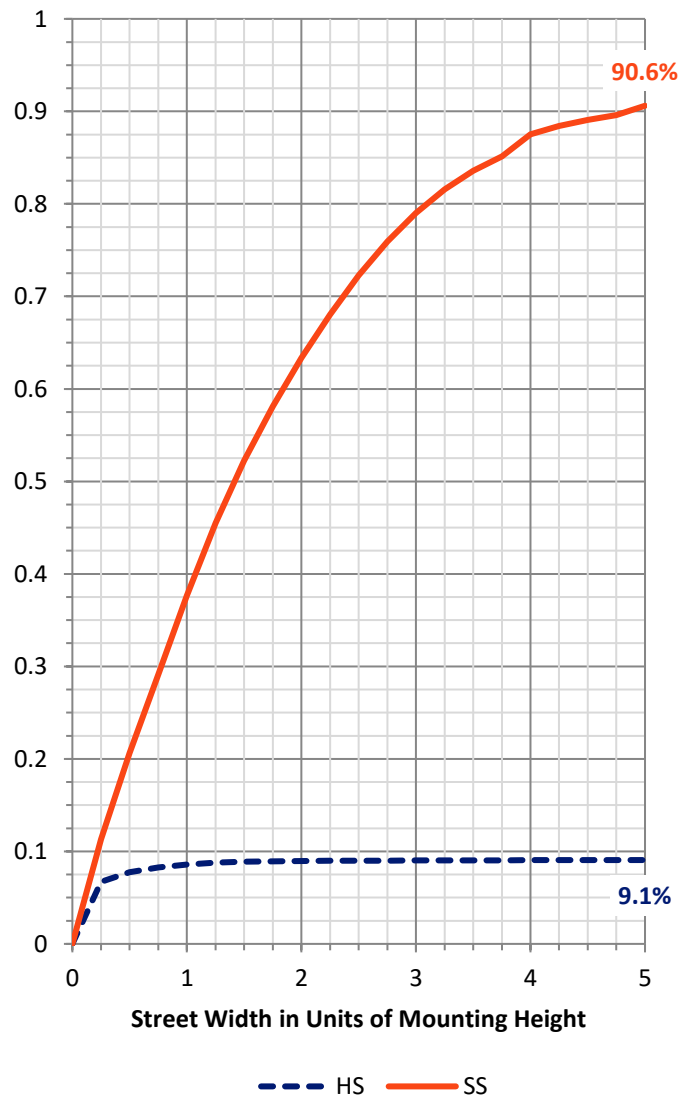
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3366.4	0.0	3366.4
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	33564.6	0.0	33564.6
	% Fixture	90.9	0.0	90.9
Total	Lumens	36931.0	0.0	36931.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.8	1.4
10°-20°	1143.9	3.1
20°-30°	1713.9	4.6
30°-40°	2726.9	7.4
40°-50°	4869.4	13.2
50°-60°	7556.0	20.5
60°-70°	10044.6	27.2
70°-80°	7555.6	20.5
80°-90°	793.9	2.1
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°	36931.0	100.0
0°-180°	36931.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322502

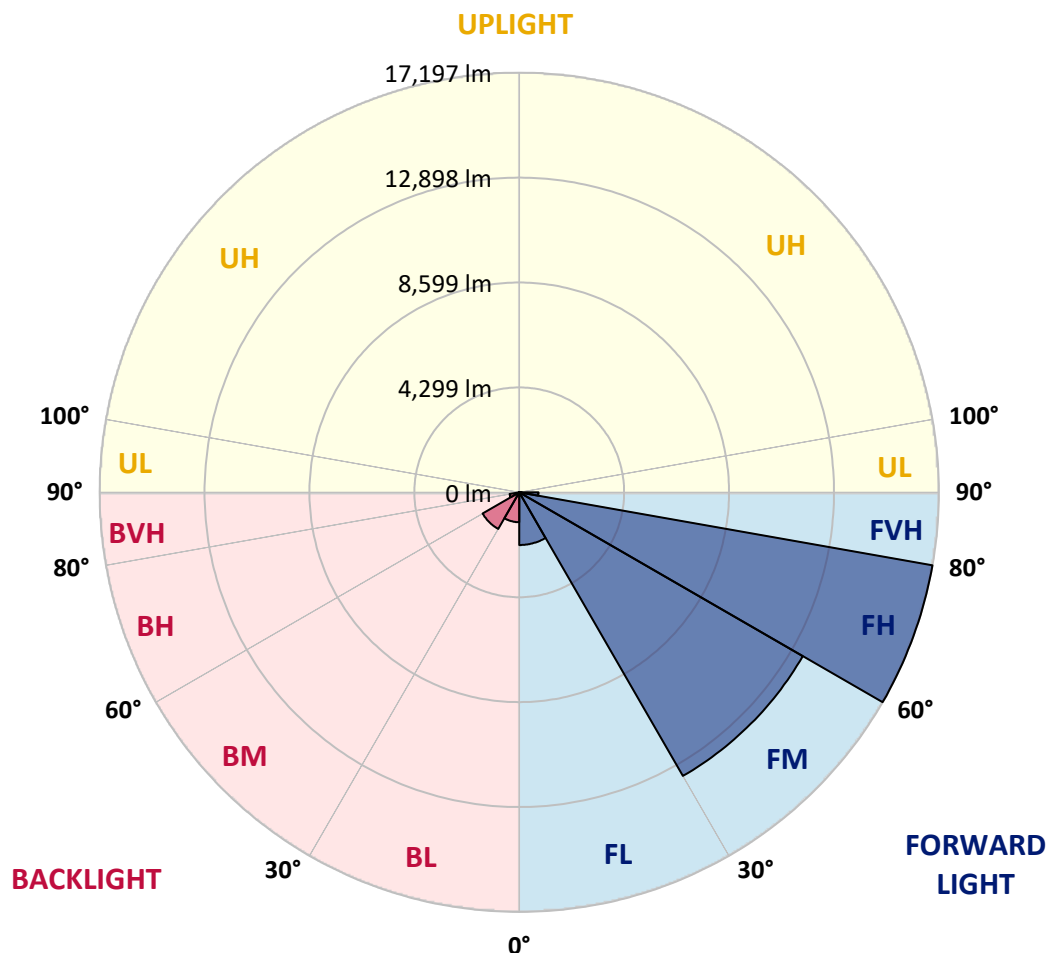
CATALOG NUMBER: GAN-SA8D-727-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2160.5	5.9			
FM	(30°-60°)	13419.4	36.3			
FH	(60°-80°)	17197.4	46.6			G5
FVH	(80°-90°)	787.3	2.1			G5
BL	(0°-30°)	1224.2	3.3	B3/2500		
BM	(30°-60°)	1732.8	4.7	B2/2500		
BH	(60°-80°)	402.8	1.1	B1/500		G1/500
BVH	(80°-90°)	6.7	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-G5

Type IV Short



REPORT NUMBER: P322502

CATALOG NUMBER: GAN-SA8D-727-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	6354.1	6354.1	6354.1	6354.1	6354.1	6354.1	6354.1	6354.1	6354.1	6354.1	6354.1
2.5°	6021.5	6046.8	6073.9	6079.4	6124.5	6126.3	6191.4	6240.2	6289.0	6336.0	6352.2
5°	5403.5	5445.0	5493.8	5542.6	5638.4	5676.4	5835.4	5998.0	6153.5	6301.6	6373.9
7.5°	4743.9	4790.8	4859.5	4980.6	5087.2	5161.3	5412.5	5701.7	5990.8	6263.7	6420.9
10°	4142.1	4185.4	4257.7	4386.0	4550.5	4651.7	4989.6	5390.8	5815.5	6229.4	6491.4
12.5°	3758.9	3782.4	3822.2	3959.5	4107.7	4221.6	4619.2	5116.1	5670.9	6227.6	6605.3
15°	3688.5	3695.7	3663.2	3724.6	3840.3	3950.5	4353.5	4893.9	5560.7	6256.5	6753.4
17.5°	3800.5	3796.9	3688.5	3681.2	3773.4	3863.8	4223.4	4740.2	5483.0	6323.3	6945.0
20°	3970.4	3957.7	3769.8	3735.4	3833.0	3918.0	4214.3	4682.4	5454.1	6435.4	7178.1
22.5°	4196.3	4174.6	3880.0	3843.9	3948.7	4037.2	4326.4	4738.4	5479.4	6585.4	7449.2
25°	4476.4	4443.9	4069.8	4030.0	4136.6	4225.2	4527.0	4899.3	5555.3	6767.9	7792.6
27.5°	4792.6	4745.7	4373.4	4270.4	4391.5	4483.6	4794.5	5145.0	5674.6	6961.3	8213.6
30°	5090.8	5029.4	4693.3	4523.4	4671.6	4774.6	5083.6	5437.8	5866.1	7259.5	8790.1
32.5°	5390.8	5322.2	4978.8	4776.4	4910.1	5022.2	5381.8	5840.8	6225.7	7714.9	9556.4
35°	6081.2	6008.9	5587.8	5253.5	5251.7	5314.9	5799.2	6392.0	6701.0	8349.2	10470.8
37.5°	7243.2	7201.6	6800.4	6166.1	5996.2	5925.8	6368.5	7049.8	7384.1	9222.1	11502.7
40°	8515.4	8479.3	8029.3	7454.6	7196.2	7022.7	7185.4	7966.1	8349.2	10288.3	12556.3
42.5°	9952.2	9780.5	8978.1	8806.4	8575.1	8443.2	8296.8	9095.6	9534.7	11448.5	13600.9
45°	11256.9	10967.8	9926.9	9666.6	9614.2	9646.7	9728.1	10613.6	10868.4	12827.4	14641.8
47.5°	12034.0	11806.3	11007.5	10758.2	10743.7	10958.8	11573.2	12328.6	12196.7	14029.2	15558.0
50°	12773.2	12567.1	11903.9	11965.4	12032.2	12325.0	13667.7	14092.4	13409.3	15118.9	16398.4
52.5°	13371.3	13056.9	12709.9	13055.1	13384.0	13855.7	15829.1	15675.5	14269.5	15986.3	17117.6
55°	13716.5	13573.7	13741.8	14088.8	14706.9	15473.1	17869.4	16992.9	14898.4	16777.9	17596.5
57.5°	14981.5	14701.4	15035.8	15335.8	16141.8	17213.4	19617.0	17974.2	15352.0	17267.6	17706.8
60°	16512.2	16286.3	16483.3	16982.1	18070.0	19329.6	21250.7	18774.8	15588.8	17582.1	17421.2
62.5°	18948.3	18650.1	18527.2	19085.7	20527.8	21903.1	22490.4	19329.6	15536.3	17442.9	16441.7
65°	22212.1	21903.1	21353.7	21859.7	23694.0	24664.4	23876.5	19447.1	15174.9	16317.1	13965.9
67.5°	25555.4	25331.3	24861.4	25714.4	27369.8	27682.4	25342.1	19161.6	14011.1	13230.4	9867.2
70°	27763.7	27668.0	27973.4	29860.1	31336.5	31246.2	26686.7	17627.3	10920.8	8135.9	4881.2
72.5°	26171.6	26630.6	28886.0	32307.0	34110.6	33373.2	25996.3	13535.8	6242.0	3130.0	1411.4
73°	24852.4	25439.7	28475.8	32399.2	34329.2	33521.4	25416.2	12424.4	5320.3	2470.4	1069.9
75°	17289.3	18010.4	23574.7	30174.5	33306.4	31938.3	21185.6	7604.6	2465.0	1095.2	431.9
77.5°	8394.4	8927.5	12981.0	21801.9	25902.3	24953.6	13188.8	2833.7	1113.2	684.9	198.8
80°	3133.7	3484.2	5634.8	11096.1	14968.9	15361.1	5801.1	1071.7	740.9	551.2	101.2
82.5°	820.5	914.4	2078.3	4948.1	7671.5	8029.3	1828.9	540.3	542.2	453.6	61.4
85°	262.0	300.0	648.8	2221.0	3614.4	3173.4	477.1	262.0	394.0	337.9	34.3
87.5°	32.5	41.6	206.0	522.3	797.0	442.8	74.1	77.7	168.1	187.9	19.9
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: P322502

CATALOG NUMBER: GAN-SA8D-727-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6354.1	6354.1	6354.1	6354.1	6354.1	6354.1	6354.1	6354.1	6354.1	6354.1	6354.1
2.5°	6368.5	6359.5	6361.3	6314.3	6283.6	6222.1	6158.9	6130.0	6099.2	6086.6	6099.2
5°	6401.0	6384.8	6337.8	6193.2	6039.6	5840.8	5654.7	5513.7	5336.6	5287.8	5338.4
7.5°	6451.6	6419.1	6281.8	5987.2	5645.6	5266.1	4839.6	4528.8	4274.0	4109.5	4169.2
10°	6525.7	6464.3	6187.8	5687.2	5076.4	4404.1	3798.7	3327.0	2992.7	2855.3	2849.9
12.5°	6650.4	6534.8	6072.1	5296.9	4380.6	3484.2	2690.9	2179.5	1908.4	1733.1	1729.5
15°	6787.8	6617.9	5925.8	4828.8	3571.0	2495.7	1733.1	1344.5	1169.2	1113.2	1106.0
17.5°	6955.8	6713.7	5736.0	4252.3	2723.4	1653.6	1131.3	1019.3	1012.0	1006.6	1006.6
20°	7167.3	6827.5	5492.0	3592.7	1931.9	1104.2	961.4	968.6	972.3	965.0	966.8
22.5°	7413.1	6943.2	5201.1	2884.3	1306.6	923.5	919.9	928.9	932.5	928.9	930.7
25°	7698.6	7076.9	4846.9	2141.5	943.3	876.5	885.5	898.2	907.2	907.2	907.2
27.5°	8052.8	7239.6	4420.4	1494.5	815.0	827.7	853.0	876.5	889.1	892.7	892.7
30°	8513.6	7442.0	3908.9	1024.7	740.9	762.6	809.6	854.8	878.3	881.9	883.7
32.5°	9095.6	7669.7	3316.2	757.2	677.7	694.0	744.6	820.5	865.6	872.9	872.9
35°	9762.4	7933.5	2678.2	659.6	632.5	637.9	677.7	764.4	844.0	863.8	865.6
37.5°	10492.5	8193.8	2036.7	616.2	594.6	594.6	623.5	697.6	791.5	853.0	860.2
40°	11173.8	8351.0	1427.7	581.9	560.2	560.2	585.5	639.7	728.3	820.5	840.3
42.5°	11802.7	8405.2	994.0	549.4	527.7	533.1	554.8	598.2	665.0	757.2	775.3
45°	12449.7	8396.2	724.7	511.4	495.2	511.4	527.7	560.2	609.0	661.4	665.0
47.5°	12937.6	8320.3	574.7	475.3	464.4	486.1	500.6	522.3	549.4	545.8	545.8
50°	13394.8	8135.9	462.6	426.5	433.7	459.0	466.3	473.5	475.3	441.0	437.3
52.5°	13741.8	7848.6	370.5	374.1	403.0	428.3	421.1	410.2	392.2	350.6	343.4
55°	13857.5	7295.6	291.0	309.0	357.8	390.4	363.2	339.8	305.4	271.1	263.8
57.5°	13647.8	6581.8	236.7	240.4	301.8	328.9	298.2	271.1	233.1	204.2	198.8
60°	13203.3	5788.4	195.2	180.7	233.1	256.6	236.7	209.6	175.3	153.6	151.8
62.5°	12321.4	4942.6	160.8	141.0	177.1	197.0	184.3	164.5	135.5	121.1	119.3
65°	10467.2	3954.1	130.1	113.9	137.3	153.6	142.8	128.3	106.6	95.8	94.0
67.5°	7306.4	2672.8	106.6	94.0	108.4	121.1	112.0	104.8	84.9	83.1	84.9
70°	3524.0	1288.5	88.6	75.9	84.9	94.0	90.4	84.9	81.3	94.0	108.4
72.5°	1010.2	431.9	70.5	63.3	68.7	74.1	77.7	75.9	88.6	113.9	131.9
73°	777.1	348.8	66.9	59.6	65.1	72.3	75.9	74.1	90.4	115.7	131.9
75°	332.5	168.1	50.6	48.8	54.2	63.3	66.9	66.9	90.4	117.5	126.5
77.5°	150.0	90.4	32.5	38.0	47.0	50.6	56.0	56.0	72.3	90.4	90.4
80°	84.9	48.8	25.3	28.9	34.3	34.3	34.3	30.7	32.5	36.1	39.8
82.5°	54.2	32.5	19.9	23.5	21.7	18.1	14.5	14.5	12.7	14.5	18.1
85°	30.7	18.1	18.1	14.5	9.0	7.2	9.0	7.2	1.8	0.0	1.8
87.5°	18.1	10.8	5.4	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)