

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: P321212

Luminaire Tested: **GAN-SA8C-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321212
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38265 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

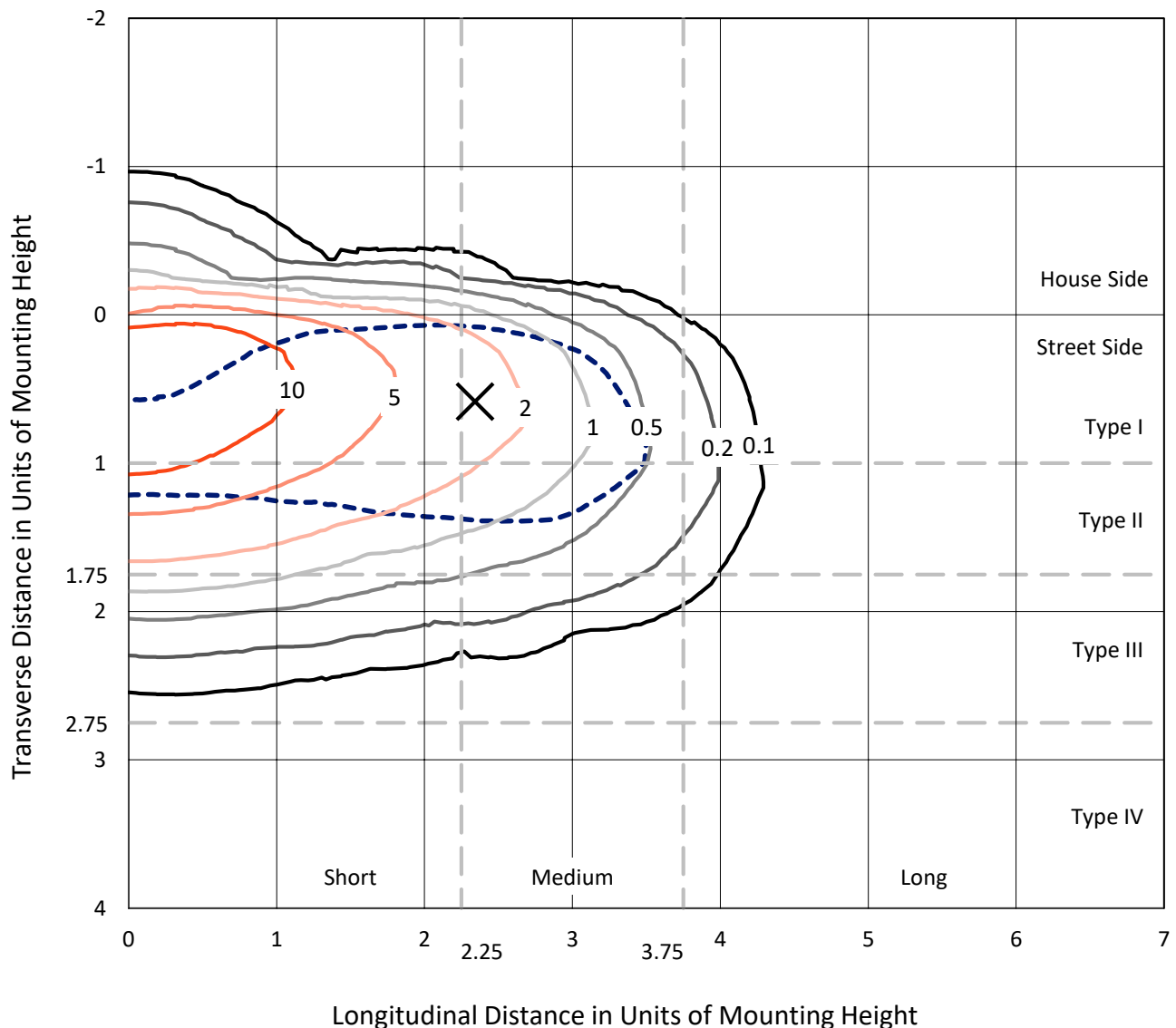
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321212
 CATALOG NUMBER: GAN-SA8C-727-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

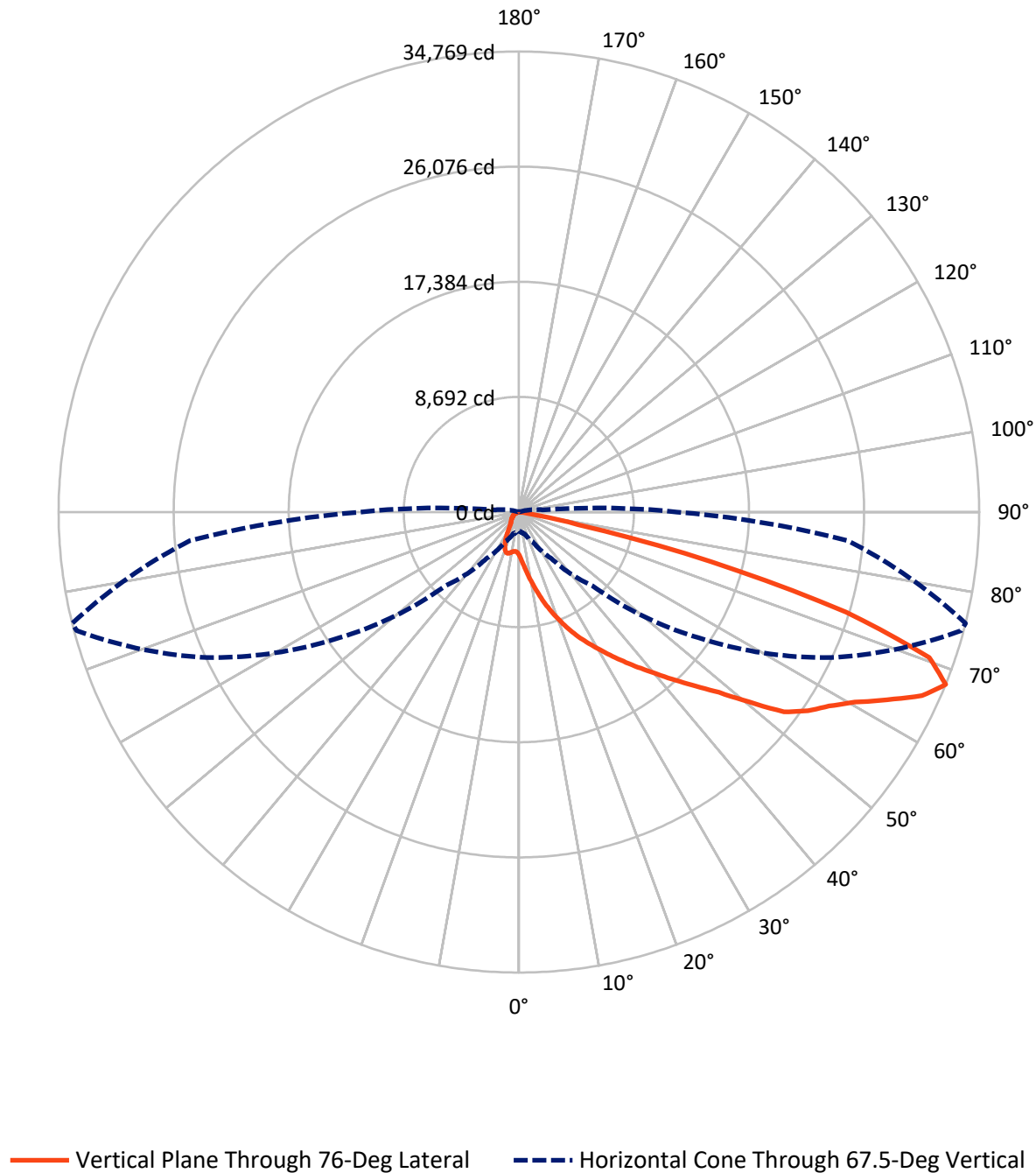
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 fc
 Type II - Medium - N/A

REPORT NUMBER: P321212
CATALOG NUMBER: GAN-SA8C-727-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P321212

CATALOG NUMBER: GAN-SA8C-727-U-T2R-HSS

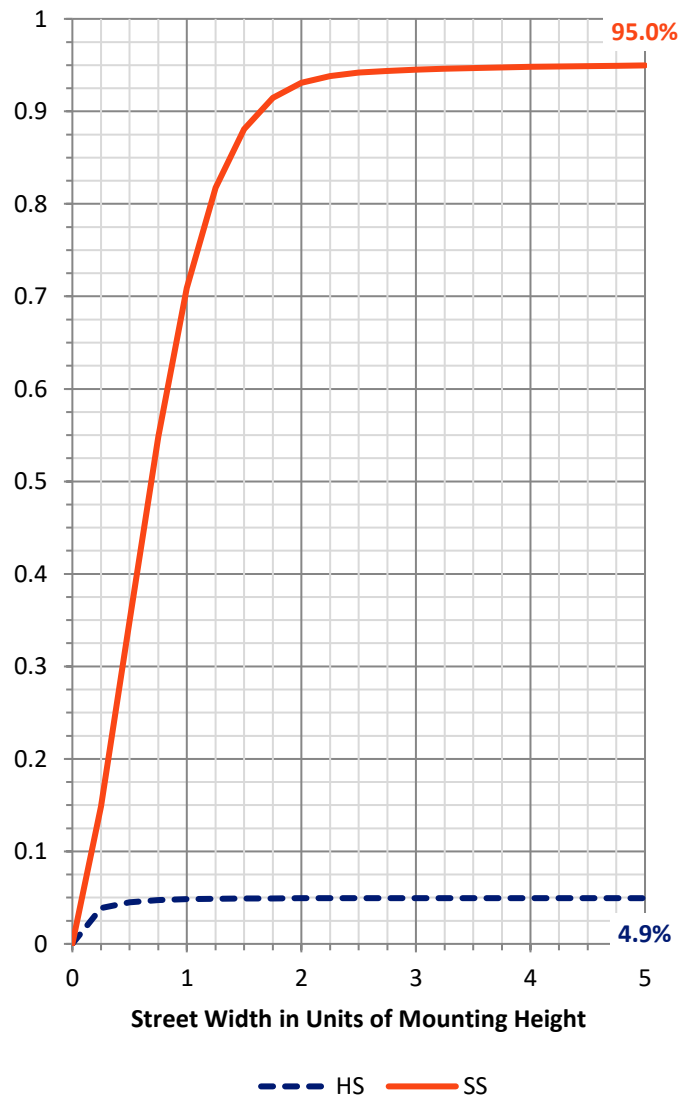
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1900.1	0.0	1900.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	36364.9	0.0	36364.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	38265.0	0.0	38265.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.6	1.1
10°-20°	1600.1	4.2
20°-30°	3255.6	8.5
30°-40°	5650.6	14.8
40°-50°	7983.6	20.9
50°-60°	9053.8	23.7
60°-70°	7509.3	19.6
70°-80°	2720.1	7.1
80°-90°	88.2	0.2
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°	38265.0	100.0
0°-180°	38265.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321212

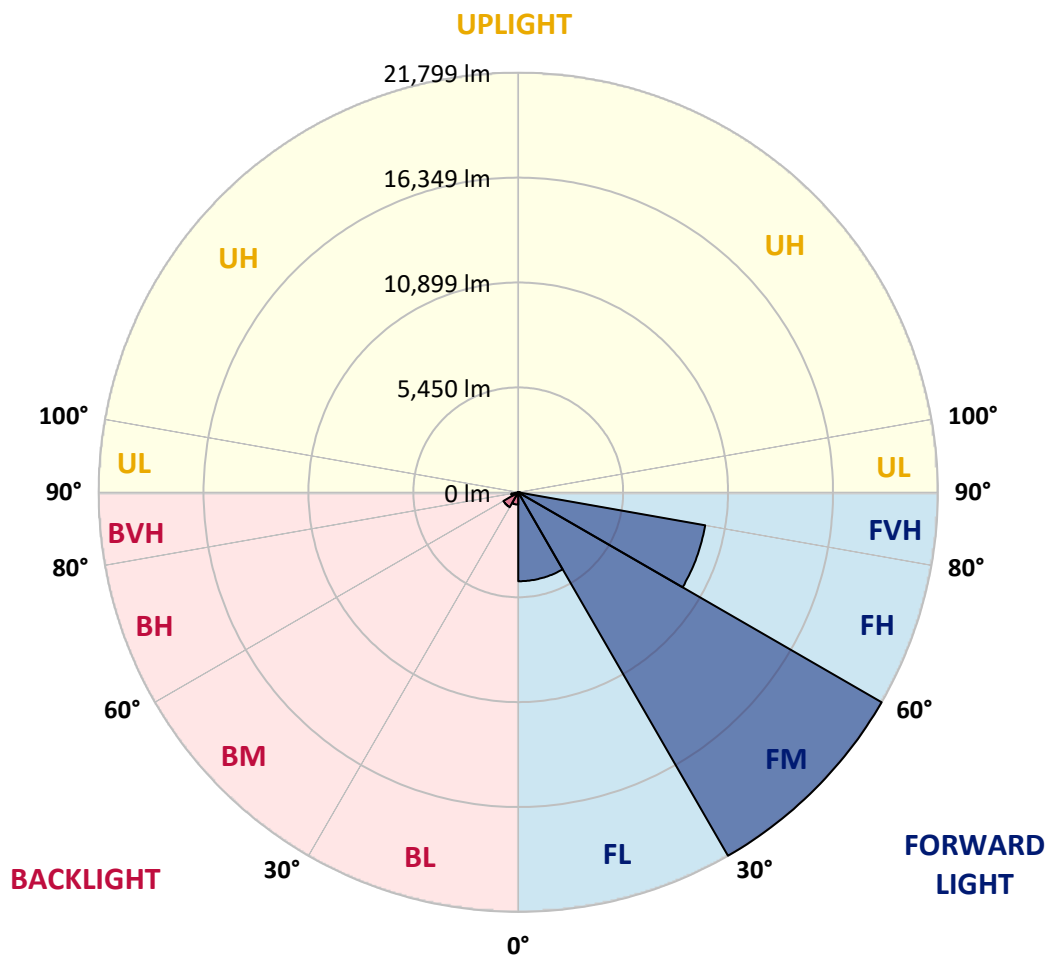
CATALOG NUMBER: GAN-SA8C-727-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4618.5	12.1			
FM	(30°-60°)	21798.8	57.0			
FH	(60°-80°)	9862.2	25.8			G4/12000
FVH	(80°-90°)	85.4	0.2			G1/100
BL	(0°-30°)	640.8	1.7	B2/1000		
BM	(30°-60°)	889.3	2.3	B1/1000		
BH	(60°-80°)	367.2	1.0	B1/500		G1/500
BVH	(80°-90°)	2.8	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-G4

Type II Medium





REPORT NUMBER: P321212

CATALOG NUMBER: GAN-SA8C-727-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3246.0	3246.0	3246.0	3246.0	3246.0	3246.0	3246.0	3246.0	3246.0	3246.0	3246.0
2.5°	4845.5	4736.5	4761.7	4691.2	4563.8	4302.3	4079.3	3868.0	3621.5	3613.2	3410.3
5°	6533.9	6441.7	6429.9	6287.4	6056.0	5611.7	5179.1	4686.2	4136.3	4096.0	3665.1
7.5°	8066.3	7992.6	7965.7	7796.4	7365.5	6932.9	6369.6	5645.3	4785.1	4711.4	4008.9
10°	9243.3	9208.1	9214.8	9094.1	8725.2	8322.9	7583.5	6659.6	5521.2	5407.2	4421.3
12.5°	10135.3	10143.7	10204.0	10130.3	9924.0	9625.6	8835.9	7741.1	6336.0	6180.1	4892.4
15°	10790.9	10832.8	10943.4	11035.7	11020.6	10762.4	10038.1	8839.3	7201.2	7028.5	5417.2
17.5°	11215.1	11262.0	11423.0	11627.5	11815.3	11754.9	11198.3	9898.9	8076.4	7876.9	5978.9
20°	11587.3	11642.6	11815.3	12085.2	12435.7	12511.1	12145.6	10926.7	8949.9	8706.8	6559.0
22.5°	12393.7	12392.1	12497.7	12655.3	12989.0	13183.4	12952.1	11880.7	9813.4	9560.2	7150.9
25°	13852.4	13797.1	13760.2	13636.1	13709.9	13830.6	13701.5	12772.7	10681.9	10425.4	7751.1
27.5°	15586.1	15619.6	15321.2	14987.5	14729.3	14605.2	14394.0	13599.2	11516.9	11235.2	8337.9
30°	17415.3	17425.3	17073.3	16647.4	16079.0	15607.9	15242.4	14388.9	12375.3	12068.5	8908.0
32.5°	19065.1	18999.7	18651.0	18070.9	17353.3	16823.4	16063.9	15270.9	13284.0	12987.3	9541.8
35°	20372.9	20295.8	19871.6	19343.4	18599.0	18065.8	17152.1	16151.1	14239.7	13949.7	10177.2
37.5°	21328.6	21238.0	20802.1	20258.9	19616.7	19306.5	18414.6	17108.5	15282.6	14970.7	10846.2
40°	21660.5	21581.7	21308.5	20911.1	20394.7	20324.3	19754.2	18210.0	16417.7	16085.7	11604.0
42.5°	21462.7	21385.6	21288.3	21154.2	20939.6	21006.7	21018.4	19465.8	17678.5	17351.6	12440.7
45°	20678.0	20609.3	20709.9	20906.1	21172.6	21504.6	22171.9	20815.5	19086.9	18738.2	13408.1
47.5°	19522.8	19472.5	19750.9	20240.4	21020.1	21935.5	23226.5	22234.0	20668.0	20344.4	14615.3
50°	17879.7	17871.3	18428.0	19321.6	20520.4	22143.4	24316.3	23846.9	22864.4	22524.0	16293.6
52.5°	15321.2	15337.9	16432.8	17863.0	19643.5	22002.6	25017.2	25919.2	25419.6	25065.8	17747.3
55°	12885.0	12985.6	13761.9	15824.2	18298.9	21479.5	25258.6	26886.6	26829.6	26494.3	18555.4
57.5°	10499.1	10681.9	11429.7	13356.1	16335.5	20274.0	25126.2	27305.8	27879.2	27622.7	19621.7
60°	7913.8	7997.6	8859.4	10660.1	13815.5	18074.2	24165.5	27533.8	29314.4	29136.7	21169.3
62.5°	5035.0	5244.5	6009.1	7746.1	10757.3	15019.4	22545.8	27530.5	31110.1	31207.4	23166.2
65°	2652.4	2897.2	3303.0	4800.2	7392.3	11607.4	20109.7	27272.3	33313.2	33449.0	24727.1
67.5°	1430.2	1500.6	1715.2	2491.5	4287.2	7863.5	16530.0	25998.0	34589.1	34768.5	24945.1
70°	1046.2	1084.8	1165.3	1378.2	2157.8	4567.2	12061.8	23109.2	32944.4	32877.3	22163.5
72.5°	803.1	863.5	923.8	1009.3	1240.7	2437.8	7509.7	18096.0	26286.4	25843.8	16566.9
75°	633.8	643.8	729.3	806.5	930.5	1388.3	3334.8	10539.4	16043.8	14995.9	8591.1
77.5°	506.3	513.1	563.4	630.4	747.8	912.1	1032.8	4146.3	5122.1	4570.5	1864.4
80°	300.1	316.9	419.2	486.2	620.4	575.1	377.2	900.4	799.8	724.3	313.5
82.5°	167.7	181.1	236.4	384.0	432.6	275.0	187.8	243.1	187.8	182.8	88.9
85°	0.0	8.4	152.6	238.1	176.0	60.4	78.8	80.5	55.3	52.0	35.2
87.5°	0.0	0.0	46.9	45.3	6.7	10.1	18.4	26.8	21.8	21.8	18.4
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: P321212

CATALOG NUMBER: GAN-SA8C-727-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3246.0	3246.0	3246.0	3246.0	3246.0	3246.0	3246.0	3246.0	3246.0	3246.0	3246.0
2.5°	3309.7	3219.2	3048.1	2880.5	2739.6	2623.9	2520.0	2478.1	2444.5	2439.5	2412.7
5°	3457.2	3274.5	2947.5	2679.3	2499.9	2372.4	2263.5	2196.4	2144.4	2124.3	2105.9
7.5°	3680.2	3403.6	2934.1	2625.6	2411.0	2196.4	1995.2	1777.2	1641.4	1589.5	1559.3
10°	3951.8	3574.6	2984.4	2610.5	2235.0	1782.3	1448.6	1172.0	1059.6	1022.8	1012.7
12.5°	4268.7	3787.5	3071.6	2516.6	1859.4	1265.9	999.3	905.4	880.2	868.5	868.5
15°	4632.6	4020.6	3133.6	2245.0	1374.8	957.4	865.1	821.6	794.7	779.6	781.3
17.5°	5004.8	4248.6	3103.5	1851.0	1014.4	851.7	783.0	736.0	699.2	684.1	680.7
20°	5380.3	4459.9	2935.8	1378.2	858.4	772.9	695.8	643.8	606.9	591.9	588.5
22.5°	5769.3	4639.3	2640.7	1011.0	771.3	685.7	610.3	558.3	523.1	509.7	503.0
25°	6148.2	4785.1	2228.3	818.2	689.1	603.6	531.5	482.9	451.0	437.6	435.9
27.5°	6502.0	4877.4	1750.4	722.6	617.0	529.8	464.4	420.8	394.0	384.0	382.3
30°	6820.6	4885.7	1294.4	652.2	553.3	466.1	405.7	367.2	343.7	333.7	330.3
32.5°	7142.5	4815.3	942.3	588.5	494.6	410.8	352.1	321.9	305.1	296.8	296.8
35°	7446.0	4652.7	734.4	533.2	437.6	357.1	310.2	288.4	278.3	269.9	269.9
37.5°	7742.7	4419.6	623.7	484.5	384.0	311.9	273.3	259.9	251.5	243.1	243.1
40°	8044.5	4126.2	566.7	439.3	340.4	276.6	243.1	231.4	223.0	216.3	214.6
42.5°	8415.1	3787.5	529.8	397.4	301.8	244.8	214.6	201.2	194.5	187.8	184.4
45°	8844.3	3495.8	499.6	355.4	269.9	218.0	186.1	172.7	162.6	154.3	152.6
47.5°	9463.0	3284.5	459.4	310.2	239.8	189.5	161.0	145.9	130.8	122.4	120.7
50°	10252.7	3110.2	407.4	269.9	209.6	161.0	134.1	115.7	102.3	93.9	93.9
52.5°	10645.0	2882.1	360.5	234.7	176.0	135.8	109.0	87.2	80.5	72.1	72.1
55°	10802.6	2707.8	313.5	199.5	145.9	112.3	85.5	67.1	62.0	57.0	55.3
57.5°	11245.2	2657.5	273.3	169.3	120.7	88.9	65.4	50.3	46.9	40.2	40.2
60°	11957.8	2682.6	236.4	144.2	97.2	68.7	48.6	38.6	35.2	28.5	28.5
62.5°	12727.4	2650.8	199.5	124.1	75.4	50.3	33.5	28.5	28.5	16.8	15.1
65°	12874.9	2360.7	171.0	102.3	58.7	36.9	21.8	18.4	25.1	3.4	0.0
67.5°	11949.4	1830.9	147.5	78.8	43.6	28.5	16.8	8.4	21.8	0.0	0.0
70°	9555.2	1163.6	119.0	57.0	33.5	23.5	13.4	3.4	16.8	0.0	0.0
72.5°	6756.9	675.7	93.9	40.2	28.5	18.4	10.1	0.0	10.1	0.0	0.0
75°	3417.0	360.5	58.7	30.2	21.8	13.4	6.7	0.0	1.7	0.0	0.0
77.5°	739.4	167.7	36.9	21.8	15.1	8.4	3.4	0.0	0.0	0.0	0.0
80°	161.0	73.8	23.5	13.4	8.4	5.0	0.0	0.0	0.0	0.0	0.0
82.5°	58.7	38.6	11.7	6.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.9	20.1	6.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.8	6.7	1.7	1.7	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)