

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: P321532

Luminaire Tested: **GAN-SA8C-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321532
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36460 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

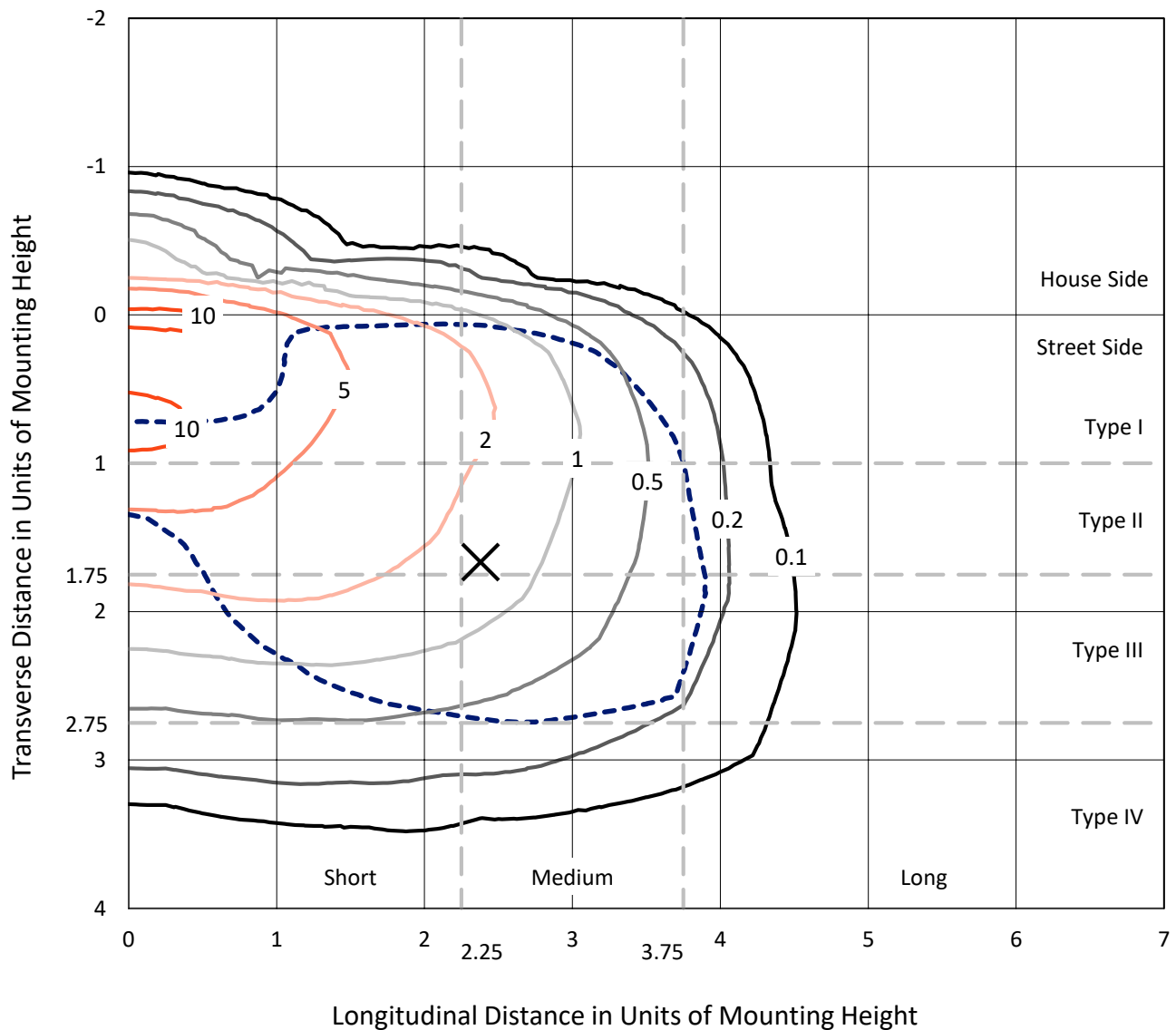
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321532
 CATALOG NUMBER: GAN-SA8C-727-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

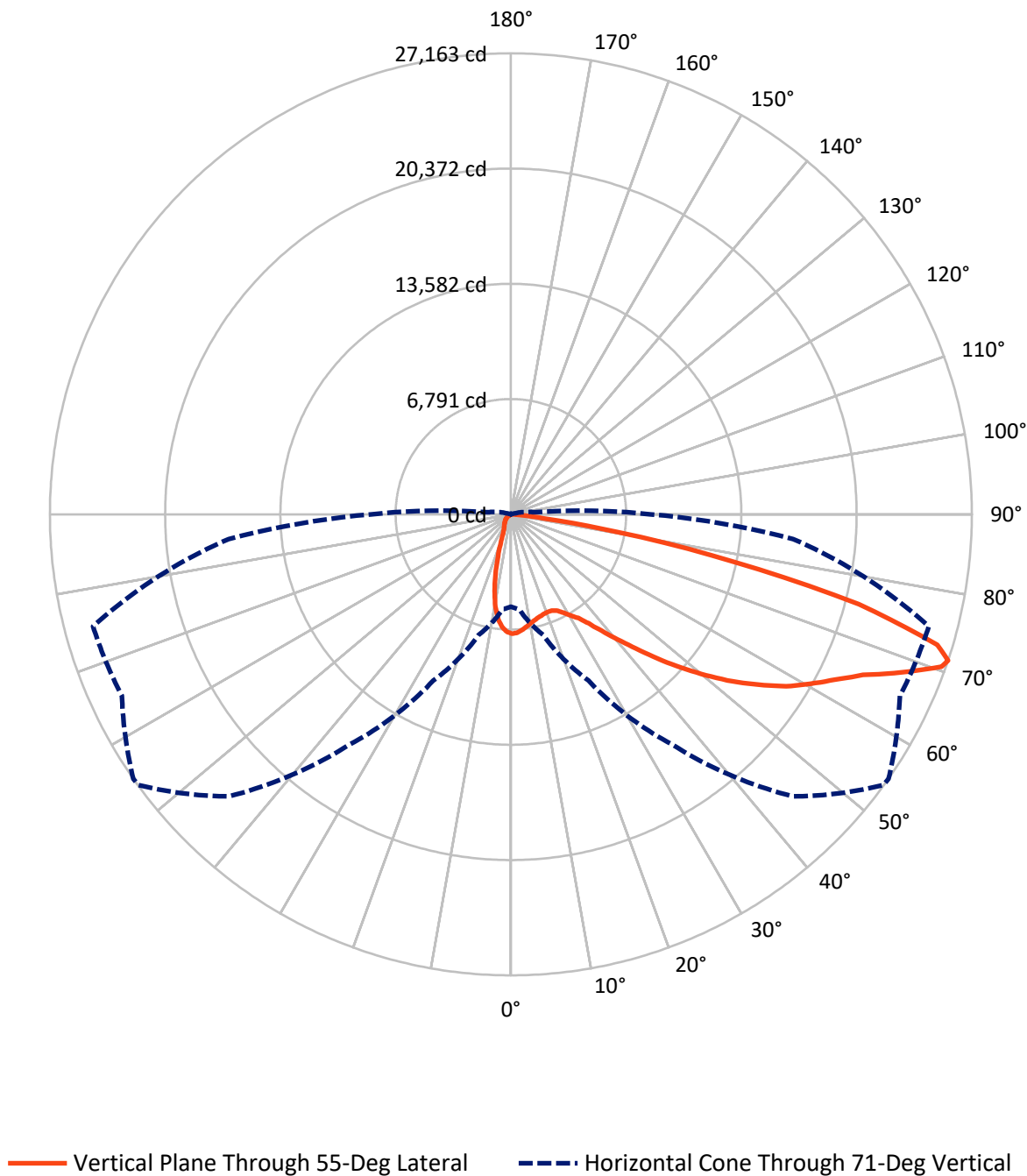
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P321532
CATALOG NUMBER: GAN-SA8C-727-U-T3R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P321532

CATALOG NUMBER: GAN-SA8C-727-U-T3R-HSS

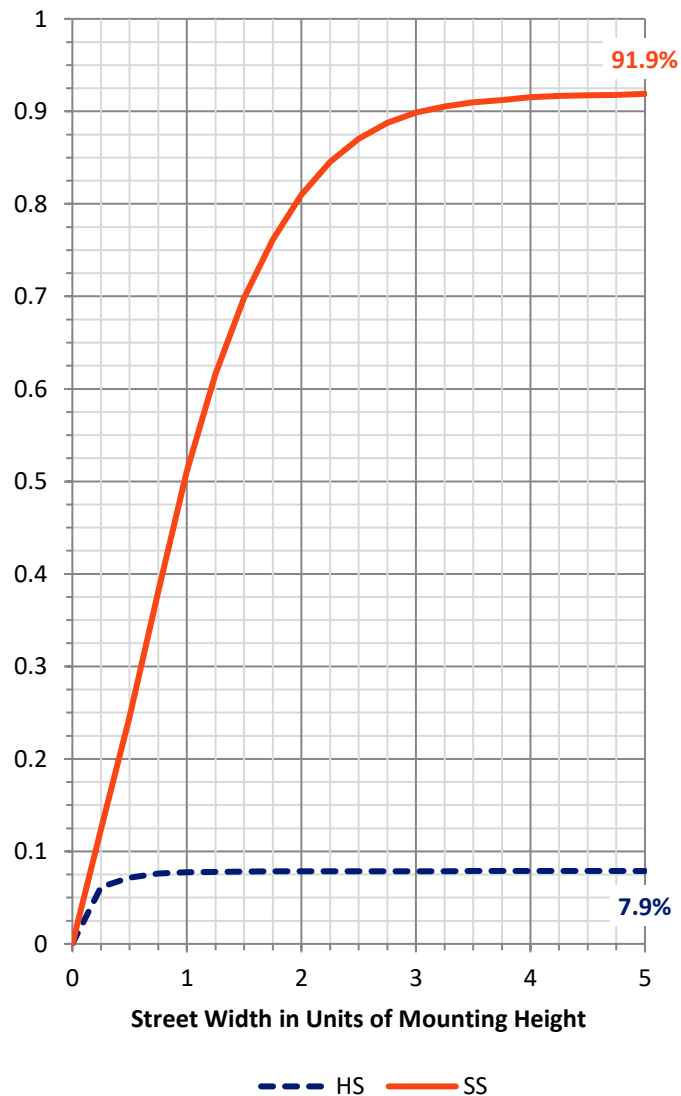
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2886.6	0.0	2886.6
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	33573.4	0.0	33573.4
	% Fixture	92.1	0.0	92.1
Total	Lumens	36460.0	0.0	36460.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.5	1.6
10°-20°	1353.5	3.7
20°-30°	2175.1	6.0
30°-40°	3695.6	10.1
40°-50°	5736.0	15.7
50°-60°	7711.9	21.2
60°-70°	9434.2	25.9
70°-80°	5515.9	15.1
80°-90°	238.4	0.7
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°	36460.0	100.0
0°-180°	36460.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321532

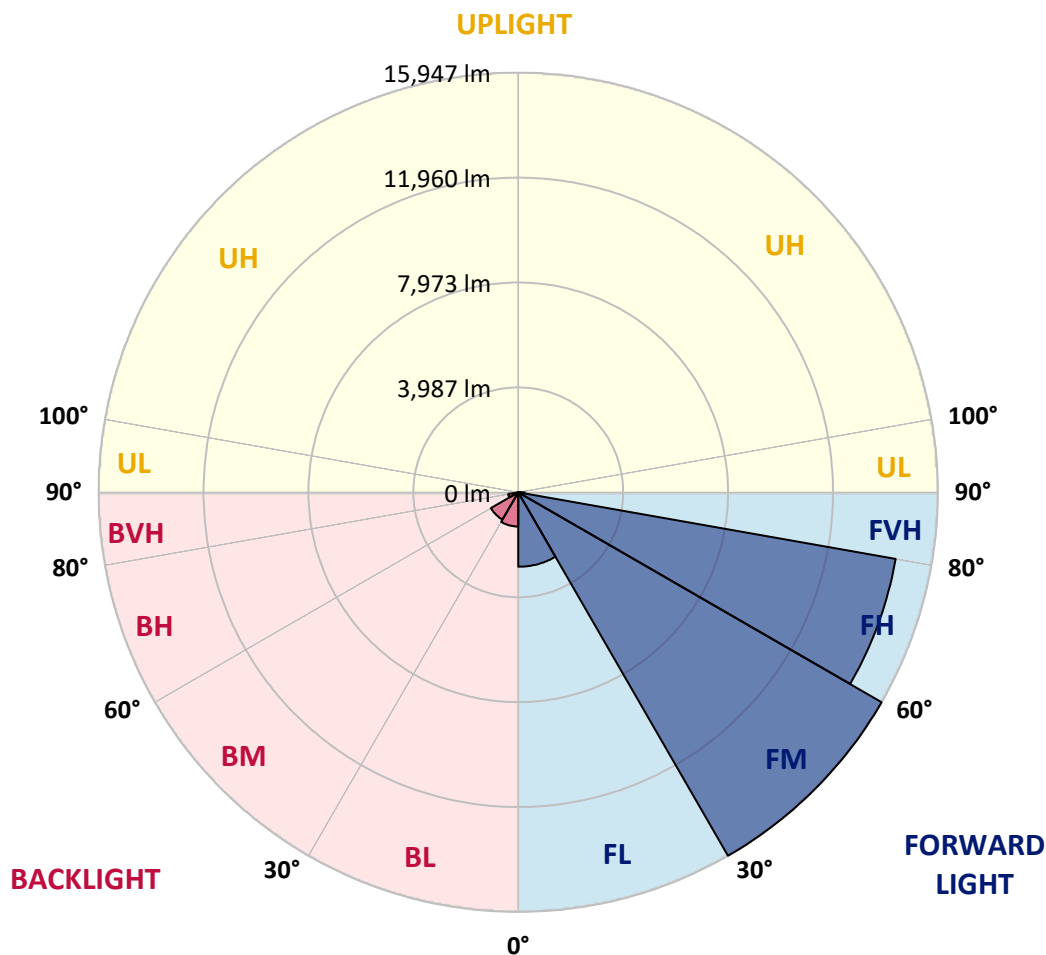
CATALOG NUMBER: GAN-SA8C-727-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2828.8	7.8			
FM	(30°-60°)	15946.5	43.7			
FH	(60°-80°)	14563.4	39.9			G5
FVH	(80°-90°)	234.7	0.6			G3/500
BL	(0°-30°)	1299.3	3.6	B3/2500		
BM	(30°-60°)	1196.8	3.3	B2/2500		
BH	(60°-80°)	386.7	1.1	B1/500		G1/500
BVH	(80°-90°)	3.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





REPORT NUMBER: P321532

CATALOG NUMBER: GAN-SA8C-727-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7031.4	7031.4	7031.4	7031.4	7031.4	7031.4	7031.4	7031.4	7031.4	7031.4	7031.4
2.5°	6825.2	6833.3	6862.8	6875.9	6907.0	6959.4	6985.6	6987.2	7029.8	7046.2	7059.3
5°	6342.2	6391.3	6440.4	6492.8	6587.8	6713.8	6838.3	6849.7	6987.2	7088.7	7142.8
7.5°	5926.4	5970.6	6029.5	6113.0	6247.3	6445.4	6653.3	6677.8	6938.1	7169.0	7290.1
10°	5499.1	5535.1	5620.2	5743.0	5928.0	6193.2	6473.2	6514.1	6893.9	7277.0	7489.8
12.5°	5042.3	5063.6	5166.8	5343.6	5615.3	5952.6	6320.9	6375.0	6866.1	7401.4	7725.6
15°	4695.3	4705.1	4803.3	4986.7	5297.7	5736.5	6203.1	6268.5	6872.6	7550.4	7982.6
17.5°	4606.9	4611.8	4664.2	4790.2	5065.3	5543.3	6109.7	6190.0	6892.3	7696.1	8241.3
20°	4965.4	4931.0	4877.0	4857.3	4975.2	5427.1	6054.1	6144.1	6918.5	7825.4	8473.7
22.5°	5949.3	5847.8	5623.5	5323.9	5142.2	5435.2	6068.8	6158.9	7002.0	7984.2	8742.2
25°	7409.6	7268.8	6887.4	6298.0	5731.6	5671.0	6191.6	6283.3	7164.0	8174.2	8999.3
27.5°	9071.3	8932.1	8465.6	7624.1	6658.2	6137.6	6473.2	6558.3	7404.7	8342.8	9195.7
30°	10662.6	10623.3	10073.2	9117.1	7823.8	6893.9	6836.6	6908.7	7583.2	8444.3	9351.2
32.5°	12011.6	11949.4	11507.3	10577.4	9158.1	7802.5	7263.9	7285.2	7717.4	8575.2	9554.2
35°	13262.3	13185.4	12797.4	11918.3	10526.7	8912.5	7922.0	7890.9	8010.4	8838.8	9848.9
37.5°	14354.3	14424.7	13994.1	13157.6	11754.5	10066.7	8809.4	8716.0	8468.8	9267.8	10276.2
40°	15267.8	15267.8	15043.5	14346.1	13080.6	11260.1	9812.9	9690.1	9158.1	9929.1	10818.1
42.5°	15596.9	15667.3	15750.8	15356.2	14267.5	12501.1	10931.1	10803.4	10128.9	10867.2	11502.4
45°	15616.5	15727.8	16155.1	16153.5	15339.8	13733.8	12191.7	12131.1	11373.1	12072.1	12350.5
47.5°	15339.8	15479.0	16183.0	16582.4	16189.5	14881.4	13570.1	13494.8	12835.0	13548.8	13237.8
50°	14912.6	15066.4	15885.0	16751.0	16767.4	15880.1	15022.2	14909.3	14444.3	15236.7	14154.6
52.5°	14148.0	14446.0	15618.2	16790.3	17147.2	16742.9	16404.0	16354.9	16245.2	16862.4	14884.7
55°	12512.5	12843.2	14948.6	16803.4	17499.2	17507.4	17698.9	17712.0	17933.0	18381.6	15428.2
57.5°	11739.8	11926.4	13779.7	16865.6	18021.4	18375.1	19018.5	19120.0	19462.1	19823.9	16048.7
60°	11253.6	11474.6	13203.4	16780.5	18841.6	19512.9	20241.4	20275.8	20642.5	21312.1	16888.6
62.5°	10865.6	11083.3	12840.0	16453.1	19763.3	20881.5	21436.5	21439.8	21714.8	23085.1	17843.0
65°	9907.9	10091.2	12104.9	16084.7	20372.4	22235.4	22824.8	22803.5	23027.8	24954.7	18951.3
67.5°	8522.9	8663.7	10603.6	14688.3	20143.2	23466.5	24920.3	24849.9	24578.1	26570.5	19386.8
70°	6589.4	6640.2	8357.5	12240.8	17995.3	23939.6	26945.4	26909.4	25529.3	26280.7	17790.6
71°	5446.7	5613.7	7365.4	10803.4	16556.2	23502.5	27141.9	27163.1	25290.3	25491.6	16692.1
72.5°	3162.9	3305.4	5338.7	8296.9	14056.3	21678.8	26123.6	26277.5	24173.8	23186.6	14257.7
75°	677.8	725.2	1979.3	4015.9	7732.1	15194.1	20619.6	21168.0	19702.8	15773.7	8593.3
77.5°	471.5	509.1	848.0	1822.1	2555.5	7507.8	12808.8	13427.7	11770.9	5928.0	2750.4
80°	373.3	415.8	661.4	900.4	690.9	2421.3	6000.1	6378.2	3925.8	1322.8	463.3
82.5°	207.9	247.2	515.7	486.2	265.2	460.0	1679.7	1899.1	785.8	266.9	109.7
85°	60.6	73.7	332.3	353.6	113.0	88.4	286.5	355.3	149.0	70.4	49.1
87.5°	0.0	0.0	160.4	135.9	32.7	13.1	26.2	29.5	29.5	29.5	32.7
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: P321532

CATALOG NUMBER: GAN-SA8C-727-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7031.4	7031.4	7031.4	7031.4	7031.4	7031.4	7031.4	7031.4	7031.4	7031.4	7031.4
2.5°	7059.3	7070.7	7029.8	6975.8	6918.5	6848.1	6774.4	6717.1	6715.5	6687.6	6659.8
5°	7146.0	7139.5	7026.5	6854.6	6651.6	6440.4	6239.1	6011.5	5936.2	5842.9	5811.8
7.5°	7306.5	7260.6	7021.6	6645.1	6199.8	5757.8	5301.0	4841.0	4644.5	4467.7	4436.6
10°	7507.8	7421.1	6990.5	6330.8	5513.8	4698.5	4009.3	3383.9	3108.9	2897.7	2887.9
12.5°	7717.4	7584.8	6903.7	5856.0	4615.0	3469.1	2675.1	2059.5	1830.3	1683.0	1696.1
15°	7936.8	7738.7	6717.1	5215.9	3591.8	2354.2	1643.7	1281.9	1190.2	1152.5	1162.4
17.5°	8161.1	7845.1	6456.8	4444.8	2581.7	1519.2	1137.8	1036.3	1036.3	1044.5	1047.8
20°	8355.9	7902.4	6073.7	3580.4	1750.1	1106.7	995.4	980.6	988.8	1001.9	1003.6
22.5°	8549.1	7905.7	5574.4	2704.5	1224.6	969.2	947.9	941.3	946.3	961.0	962.6
25°	8706.2	7866.4	4949.0	1923.6	977.4	913.5	903.7	900.4	903.7	921.7	921.7
27.5°	8770.1	7723.9	4186.1	1352.3	875.9	851.3	848.0	851.3	856.2	869.3	870.9
30°	8776.6	7475.1	3354.5	979.0	794.0	767.8	774.4	785.8	780.9	777.6	780.9
32.5°	8793.0	7187.0	2544.1	805.5	725.2	684.3	676.1	676.1	656.5	645.0	638.5
35°	8847.0	6848.1	1845.0	723.6	654.8	607.4	576.3	540.3	502.6	483.0	478.0
37.5°	8932.1	6492.8	1321.2	669.6	592.6	538.6	479.7	415.8	361.8	347.1	347.1
40°	9087.7	6126.1	977.4	627.0	543.5	476.4	388.0	304.5	255.4	247.2	247.2
42.5°	9333.2	5739.8	779.3	589.4	501.0	412.6	296.3	221.0	185.0	180.1	178.4
45°	9588.6	5314.1	681.0	553.3	455.1	338.9	219.4	163.7	142.4	137.5	137.5
47.5°	9844.0	4860.6	633.6	519.0	410.9	263.6	163.7	129.3	119.5	119.5	121.1
50°	10060.1	4387.5	599.2	481.3	353.6	199.7	129.3	109.7	106.4	113.0	114.6
52.5°	10114.1	3922.5	556.6	433.8	283.2	152.3	106.4	96.6	96.6	96.6	96.6
55°	10081.4	3562.4	501.0	374.9	209.6	121.1	91.7	85.1	83.5	83.5	83.5
57.5°	10192.7	3349.6	401.1	291.4	150.6	98.2	80.2	75.3	72.0	70.4	70.4
60°	10417.0	3210.4	286.5	209.6	113.0	81.9	68.8	63.8	58.9	55.7	55.7
62.5°	10715.0	3089.3	212.8	155.5	86.8	65.5	57.3	52.4	45.8	42.6	42.6
65°	10944.2	2873.2	162.1	116.2	65.5	52.4	44.2	42.6	32.7	29.5	27.8
67.5°	10593.8	2398.4	131.0	85.1	49.1	40.9	34.4	32.7	19.6	16.4	16.4
70°	9086.0	1669.9	104.8	62.2	36.0	32.7	27.8	21.3	14.7	13.1	13.1
71°	8239.6	1394.8	95.0	52.4	31.1	31.1	26.2	18.0	13.1	11.5	11.5
72.5°	6844.8	990.5	80.2	40.9	27.8	32.7	27.8	16.4	13.1	11.5	9.8
75°	3973.3	414.2	55.7	27.8	21.3	39.3	36.0	14.7	9.8	8.2	8.2
77.5°	1195.1	152.3	31.1	18.0	16.4	34.4	40.9	13.1	4.9	1.6	1.6
80°	217.7	65.5	19.6	11.5	11.5	21.3	31.1	6.5	0.0	0.0	0.0
82.5°	76.9	32.7	11.5	6.5	4.9	9.8	14.7	0.0	0.0	0.0	0.0
85°	44.2	22.9	6.5	3.3	0.0	1.6	3.3	0.0	0.0	0.0	0.0
87.5°	29.5	6.5	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

(END OF REPORT)