

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: P322182

Luminaire Tested: **GAN-SA8D-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37897 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - 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

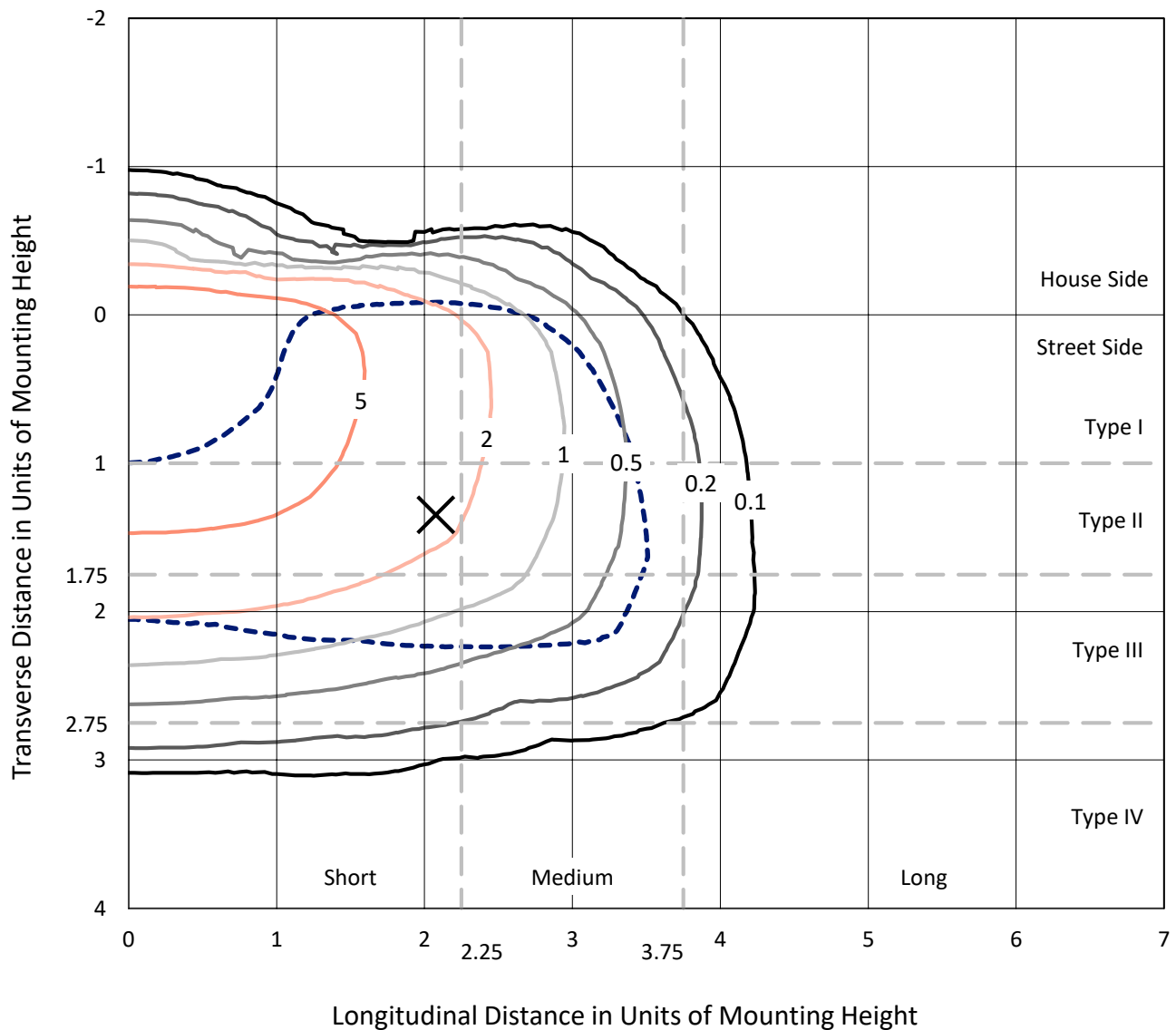


REPORT NUMBER: P322182

CATALOG NUMBER: GAN-SA8D-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

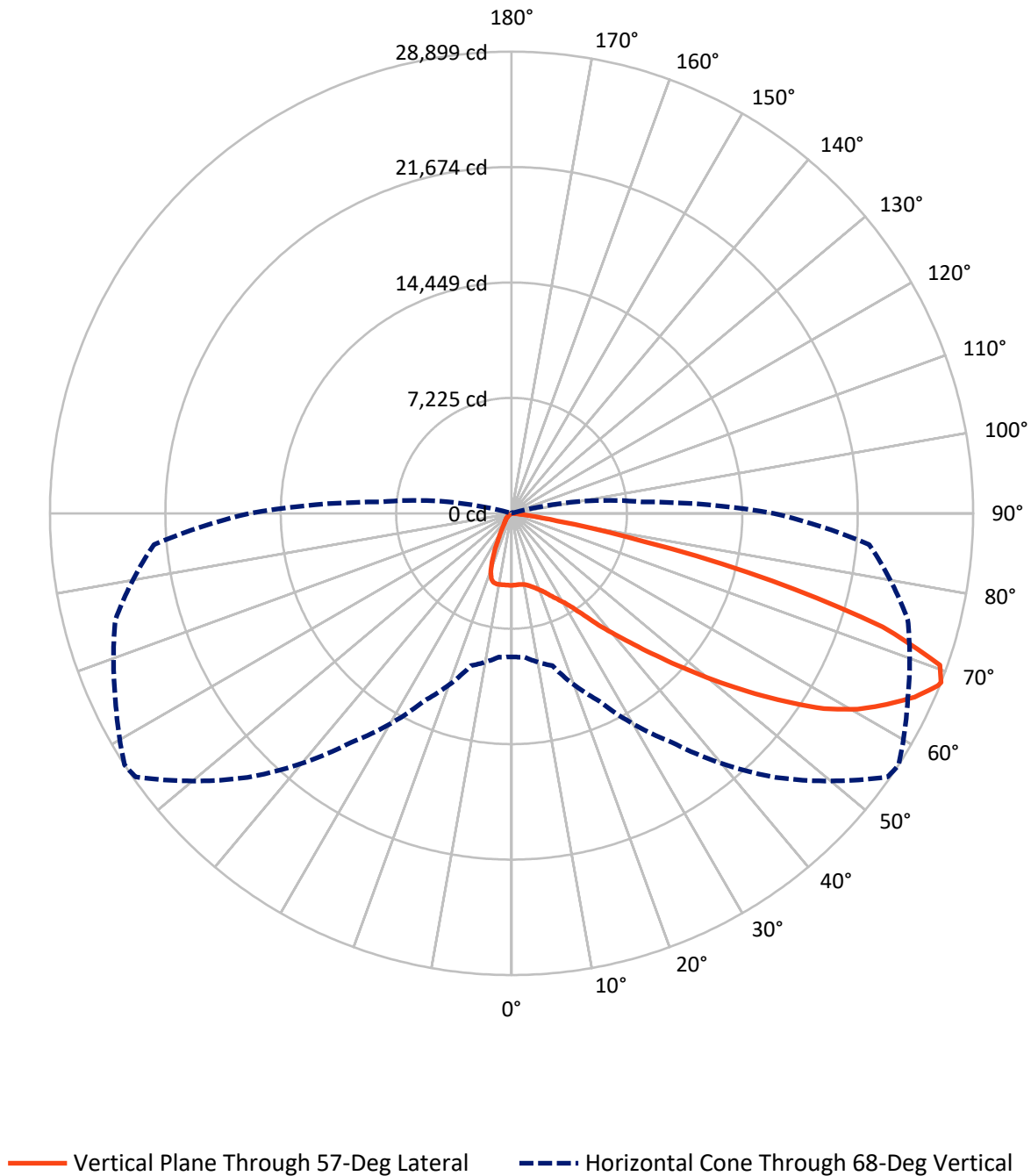
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Short - N/A

REPORT NUMBER: P322182
CATALOG NUMBER: GAN-SA8D-727-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322182

CATALOG NUMBER: GAN-SA8D-727-U-T3-HSS

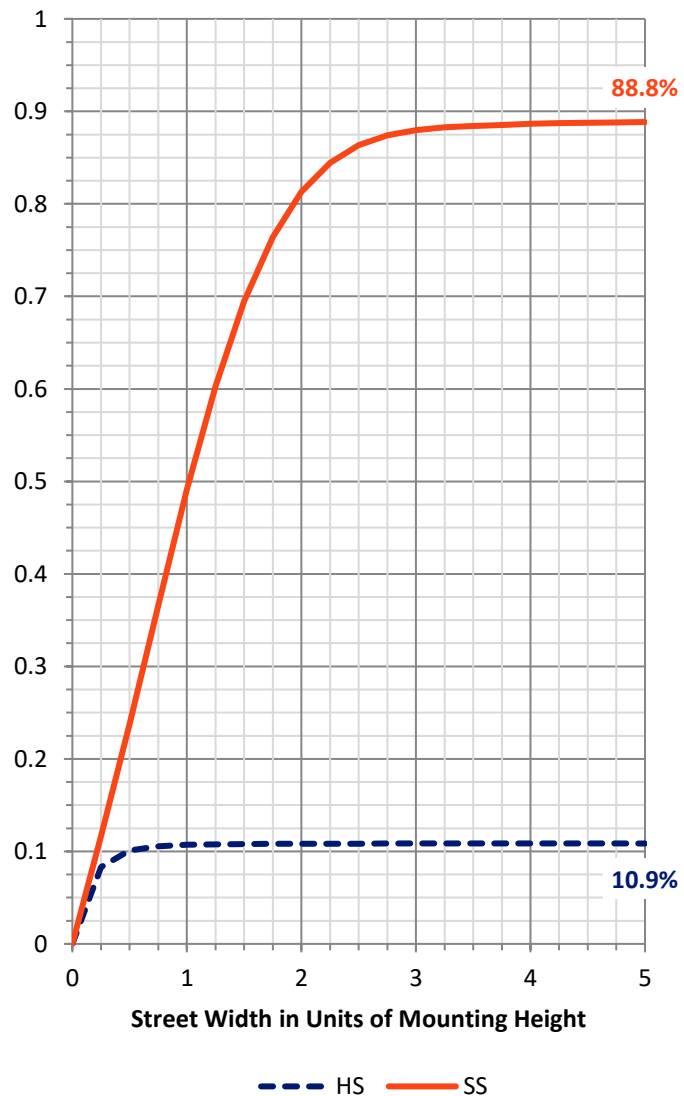
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4155.6	0.0	4155.6
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	33741.4	0.0	33741.4
	% Fixture	89.0	0.0	89.0
Total	Lumens	37897.0	0.0	37897.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.4	1.1
10°-20°	1167.8	3.1
20°-30°	2014.6	5.3
30°-40°	3477.1	9.2
40°-50°	5947.6	15.7
50°-60°	9515.6	25.1
60°-70°	10994.3	29.0
70°-80°	4201.1	11.1
80°-90°	157.5	0.4
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°	37897.0	100.0
0°-180°	37897.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322182

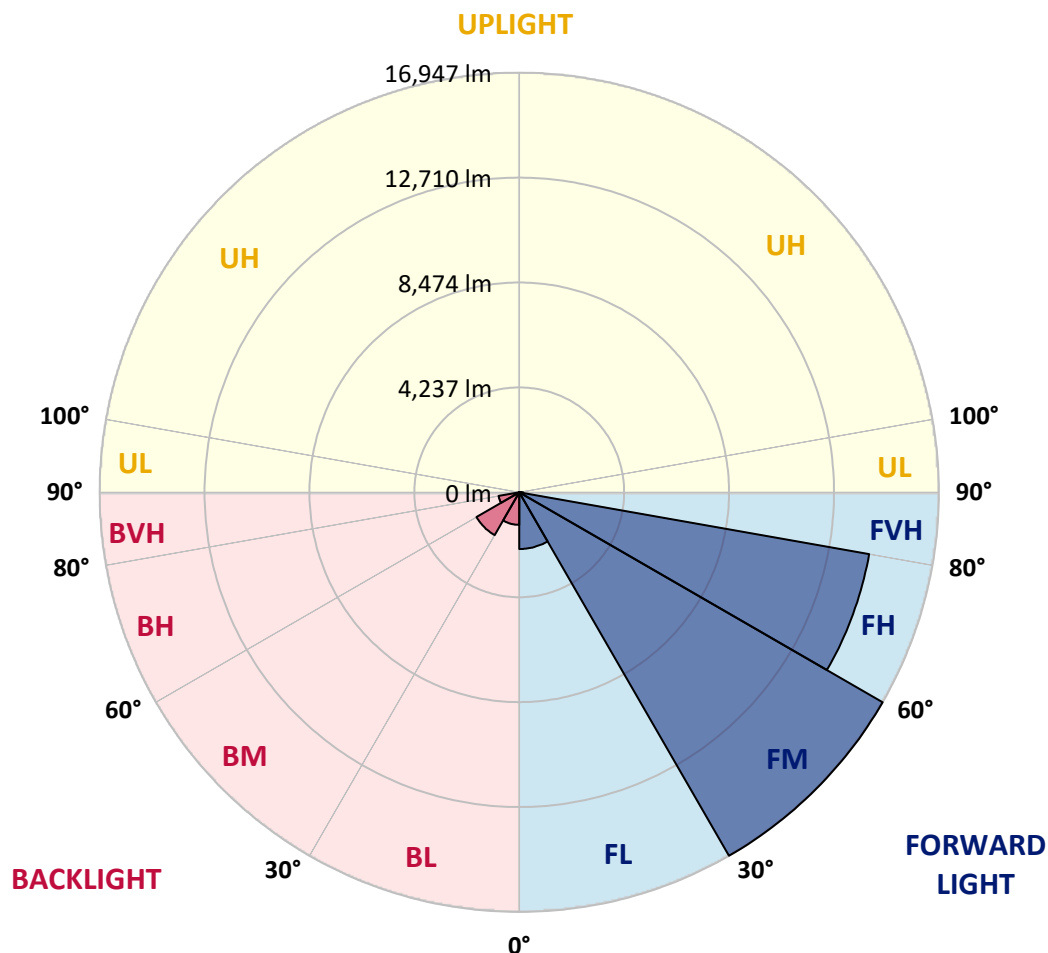
CATALOG NUMBER: GAN-SA8D-727-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2290.5	6.0			
FM	(30°-60°)	16947.2	44.7			
FH	(60°-80°)	14349.0	37.9			G5
FVH	(80°-90°)	154.6	0.4			G2/225
BL	(0°-30°)	1313.3	3.5	B3/2500		
BM	(30°-60°)	1993.1	5.3	B2/2500		
BH	(60°-80°)	846.3	2.2	B2/1000		G2/1000
BVH	(80°-90°)	2.9	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 Short





REPORT NUMBER: P322182

CATALOG NUMBER: GAN-SA8D-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4503.2	4503.2	4503.2	4503.2	4503.2	4503.2	4503.2	4503.2	4503.2	4503.2	4503.2
2.5°	4397.4	4417.1	4431.5	4440.4	4451.2	4474.5	4481.7	4492.4	4497.8	4497.8	4510.3
5°	4223.6	4245.1	4275.6	4300.7	4350.8	4415.4	4461.9	4479.9	4512.1	4540.8	4556.9
7.5°	4062.3	4087.4	4123.3	4182.4	4268.4	4372.4	4469.1	4494.2	4556.9	4617.8	4648.3
10°	3958.4	3978.1	4024.7	4108.9	4221.8	4367.0	4503.2	4533.6	4641.1	4743.3	4800.6
12.5°	3922.6	3940.5	3988.9	4083.8	4223.6	4393.9	4582.0	4626.8	4784.5	4933.2	5013.9
15°	3974.5	3978.1	4030.1	4119.7	4257.7	4460.2	4712.8	4766.6	4965.5	5159.0	5259.4
17.5°	4175.2	4159.1	4186.0	4225.4	4334.7	4548.0	4850.8	4931.4	5196.6	5424.2	5519.2
20°	4677.0	4677.0	4616.1	4508.5	4510.3	4684.1	5037.2	5128.6	5452.9	5716.3	5802.3
22.5°	5535.3	5519.2	5397.3	5133.9	4892.0	4918.9	5264.7	5383.0	5761.1	6042.4	6071.1
25°	6567.5	6547.8	6359.6	5988.7	5569.4	5298.8	5573.0	5709.1	6128.5	6377.5	6318.4
27.5°	7660.6	7644.4	7458.1	6997.6	6400.8	5904.5	5940.3	6069.3	6503.0	6748.5	6560.3
30°	8719.6	8725.0	8540.4	8067.3	7391.8	6676.8	6406.2	6481.5	6866.7	7115.8	6847.0
32.5°	9726.7	9733.9	9574.4	9045.7	8415.0	7574.6	7051.3	7031.6	7289.6	7535.1	7226.9
35°	10624.5	10642.4	10533.1	10122.7	9454.3	8574.5	7888.2	7841.6	7889.9	8167.7	7809.3
37.5°	11490.0	11500.7	11418.3	11072.4	10513.4	9672.9	8945.4	8879.1	8775.2	8988.4	8578.1
40°	12437.9	12411.0	12316.1	12002.5	11522.2	10886.1	10081.5	9966.8	9785.8	9975.8	9588.7
42.5°	13319.5	13289.1	13305.2	12950.4	12545.4	12133.3	11405.7	11208.6	11102.9	11321.5	10828.7
45°	14421.6	14405.5	14459.2	14151.0	13823.1	13523.8	12923.5	12708.5	12661.9	12918.1	12328.6
47.5°	15509.3	15548.7	15715.4	15584.6	15452.0	15188.5	14530.9	14434.1	14462.8	14772.8	13910.9
50°	16416.0	16462.6	16919.6	17070.1	17261.8	17107.7	16448.3	16389.1	16502.0	16781.6	15613.2
52.5°	17071.9	17166.9	17734.9	18428.4	19127.2	19231.2	18573.5	18519.8	18672.1	18715.1	16928.5
55°	17527.0	17611.3	18254.6	19523.3	20946.1	21394.1	20985.5	20777.6	20749.0	20324.3	18311.9
57.5°	17607.7	17598.7	18523.4	20231.1	22372.5	23528.3	23270.2	23065.9	22478.2	21811.6	19897.8
60°	17152.5	17204.5	18277.9	20476.6	23268.4	25142.8	25162.5	24897.3	23981.6	23257.7	21435.3
62.5°	15751.2	15962.7	17046.8	19833.3	23257.7	25793.3	26549.5	26347.0	25252.1	24442.2	22994.3
65°	13479.0	13554.3	14588.2	17629.2	21686.1	25520.9	27798.5	27723.2	26397.2	25592.6	23795.3
67.5°	9843.2	9680.1	10766.0	13882.2	18360.3	23933.2	28694.4	28789.4	27280.6	25829.1	22942.3
68°	8983.0	9031.4	9877.2	12955.8	17489.4	23372.4	28753.6	28898.7	27368.4	25675.0	22476.4
70°	5354.3	5447.5	6201.9	8920.3	13305.2	20198.8	28115.6	28447.2	26845.2	24085.6	19440.8
72.5°	1367.3	1478.4	2191.6	3992.5	7599.6	14231.6	23734.3	24295.2	23307.9	19539.4	13124.2
75°	562.7	591.3	783.1	1315.3	2831.3	6411.6	15643.7	16844.3	16158.0	11697.8	5931.3
77.5°	388.9	408.6	503.5	729.3	1225.7	2173.6	7669.5	8536.8	7691.0	3992.5	1293.8
80°	279.5	295.7	360.2	485.6	704.2	775.9	2499.8	2890.4	2295.5	876.3	320.8
82.5°	166.7	179.2	268.8	345.8	428.3	370.9	621.8	706.0	664.8	435.4	143.4
85°	82.4	96.8	181.0	247.3	231.2	155.9	189.9	211.4	261.6	265.2	77.1
87.5°	5.4	10.8	105.7	148.7	64.5	35.8	55.6	68.1	93.2	130.8	32.3
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: P322182

CATALOG NUMBER: GAN-SA8D-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4503.2	4503.2	4503.2	4503.2	4503.2	4503.2	4503.2	4503.2	4503.2	4503.2	4503.2
2.5°	4515.7	4517.5	4505.0	4499.6	4503.2	4481.7	4472.7	4476.3	4476.3	4481.7	4472.7
5°	4560.5	4560.5	4539.0	4510.3	4494.2	4453.0	4426.1	4418.9	4413.6	4410.0	4402.8
7.5°	4657.3	4646.5	4608.9	4546.2	4492.4	4402.8	4334.7	4298.9	4281.0	4273.8	4268.4
10°	4813.2	4793.5	4730.7	4614.3	4490.6	4331.1	4182.4	4076.7	3988.9	3953.0	3931.5
12.5°	5022.8	4994.2	4888.4	4694.9	4478.1	4184.2	3861.6	3551.6	3263.1	3144.9	3085.7
15°	5264.7	5223.5	5056.9	4763.0	4404.6	3852.7	3152.0	2609.1	2209.5	2058.9	1994.4
17.5°	5510.2	5456.5	5203.8	4806.0	4184.2	3166.4	2211.3	1670.1	1403.1	1331.4	1306.3
20°	5757.5	5678.7	5331.0	4773.7	3686.0	2282.9	1458.6	1220.3	1143.3	1121.8	1114.6
22.5°	5992.3	5870.4	5445.7	4648.3	2919.1	1532.1	1154.0	1078.8	1053.7	1041.1	1037.5
25°	6196.6	6026.3	5546.1	4261.2	2066.1	1157.6	1039.3	1014.2	982.0	958.7	960.5
27.5°	6388.3	6182.2	5607.0	3623.3	1378.0	989.2	962.3	928.2	869.1	835.0	835.0
30°	6619.5	6390.1	5651.8	2788.3	1014.2	874.5	853.0	801.0	720.4	675.6	675.6
32.5°	6967.1	6705.5	5623.1	1956.8	840.4	768.7	718.6	646.9	559.1	516.1	514.3
35°	7499.3	7192.9	5418.8	1283.0	741.9	668.4	587.8	500.0	422.9	387.1	385.3
37.5°	8216.1	7845.1	4960.1	917.5	664.8	575.2	478.4	381.7	324.3	301.0	299.3
40°	9146.1	8603.1	4304.3	743.7	593.1	485.6	369.1	295.7	256.2	238.3	240.1
42.5°	10262.5	9414.9	3517.6	641.5	523.2	399.6	288.5	233.0	207.9	195.3	191.7
45°	11502.5	10215.9	2693.3	571.6	453.4	322.6	225.8	184.6	164.9	157.7	157.7
47.5°	12866.2	10995.4	1971.1	510.7	378.1	249.1	181.0	150.5	134.4	129.0	127.2
50°	14104.4	11536.6	1421.0	446.2	310.0	197.1	146.9	125.4	114.7	107.5	107.5
52.5°	15136.6	11706.8	1046.5	376.3	250.9	157.7	121.9	107.5	96.8	91.4	91.4
55°	16045.1	11636.9	777.7	310.0	202.5	129.0	103.9	91.4	82.4	77.1	77.1
57.5°	16916.0	11411.1	580.6	252.7	163.1	103.9	87.8	77.1	68.1	64.5	64.5
60°	17627.4	11034.8	431.9	204.3	130.8	84.2	73.5	62.7	55.6	50.2	50.2
62.5°	18204.4	10619.1	317.2	168.4	103.9	66.3	57.3	52.0	41.2	35.8	35.8
65°	18208.0	9929.2	238.3	139.8	80.6	52.0	43.0	41.2	26.9	21.5	19.7
67.5°	16890.9	8560.1	182.8	120.1	62.7	39.4	32.3	34.0	14.3	9.0	7.2
68°	16412.4	8212.5	172.0	118.3	59.1	37.6	30.5	34.0	12.5	7.2	5.4
70°	13837.4	6533.4	138.0	114.7	52.0	28.7	25.1	34.0	10.8	5.4	3.6
72.5°	8850.4	3791.8	102.1	91.4	39.4	21.5	16.1	30.5	10.8	3.6	1.8
75°	3766.7	1175.5	69.9	64.5	23.3	16.1	10.8	19.7	7.2	1.8	0.0
77.5°	793.8	265.2	41.2	39.4	16.1	10.8	7.2	5.4	1.8	0.0	0.0
80°	204.3	77.1	21.5	19.7	9.0	5.4	3.6	0.0	0.0	0.0	0.0
82.5°	64.5	30.5	12.5	9.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	32.3	17.9	7.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.9	5.4	1.8	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)