

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: P323779

Luminaire Tested: **GAN-SA5D-727-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26321 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

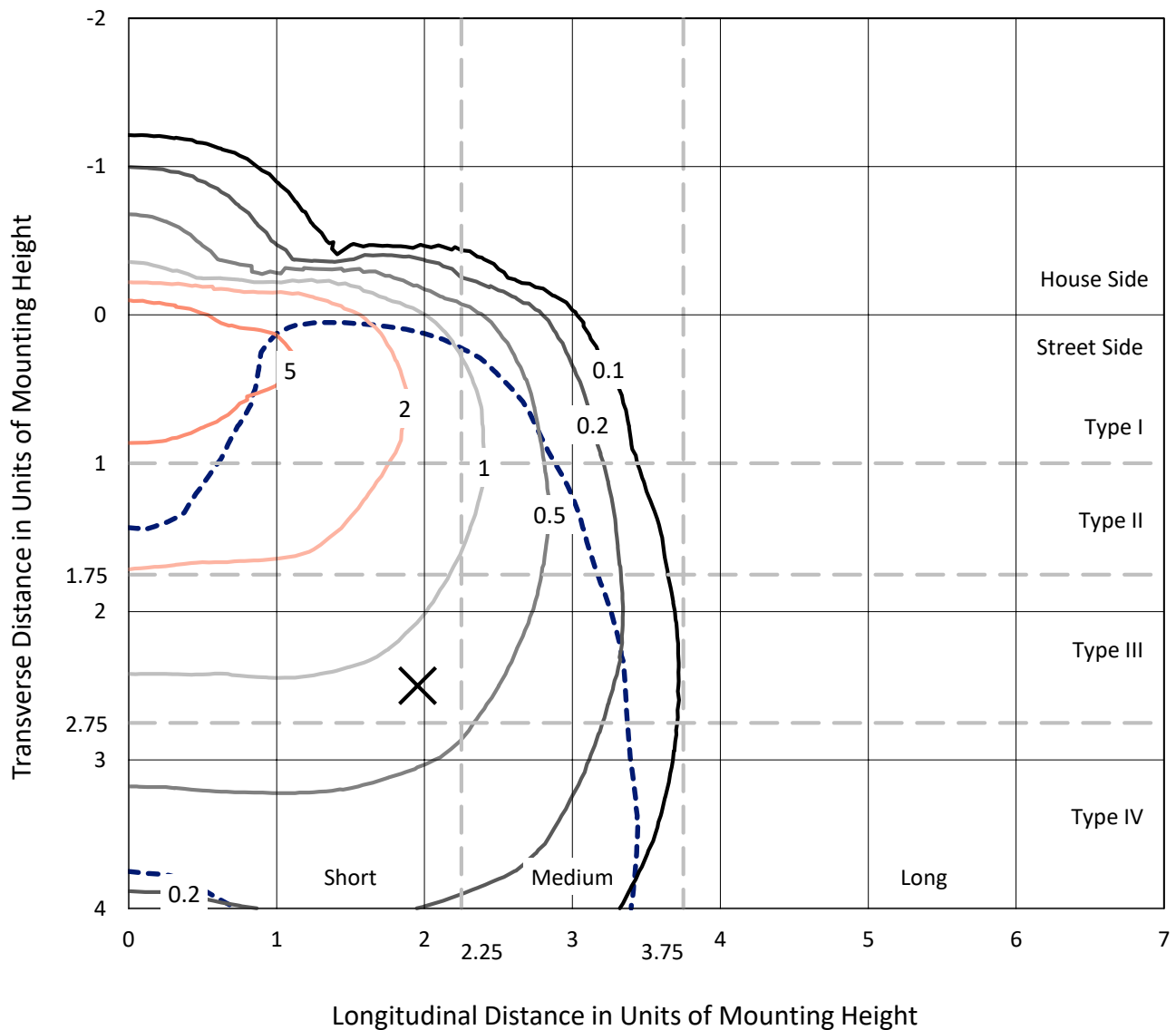
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323779
CATALOG NUMBER: GAN-SA5D-727-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

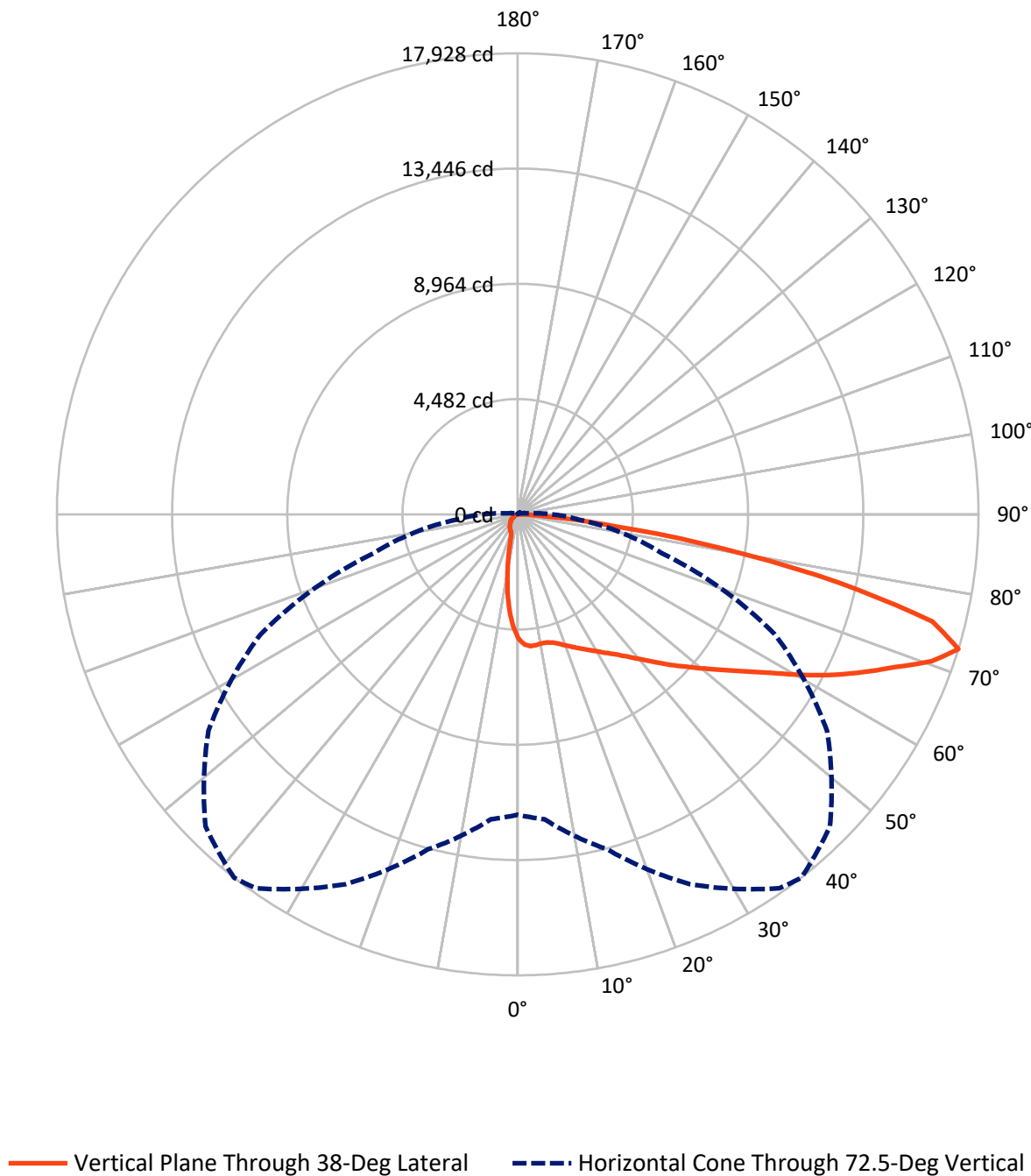
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
Type IV - Short - N/A

REPORT NUMBER: P323779
CATALOG NUMBER: GAN-SA5D-727-U-SL4-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P323779

CATALOG NUMBER: GAN-SA5D-727-U-SL4-HSS

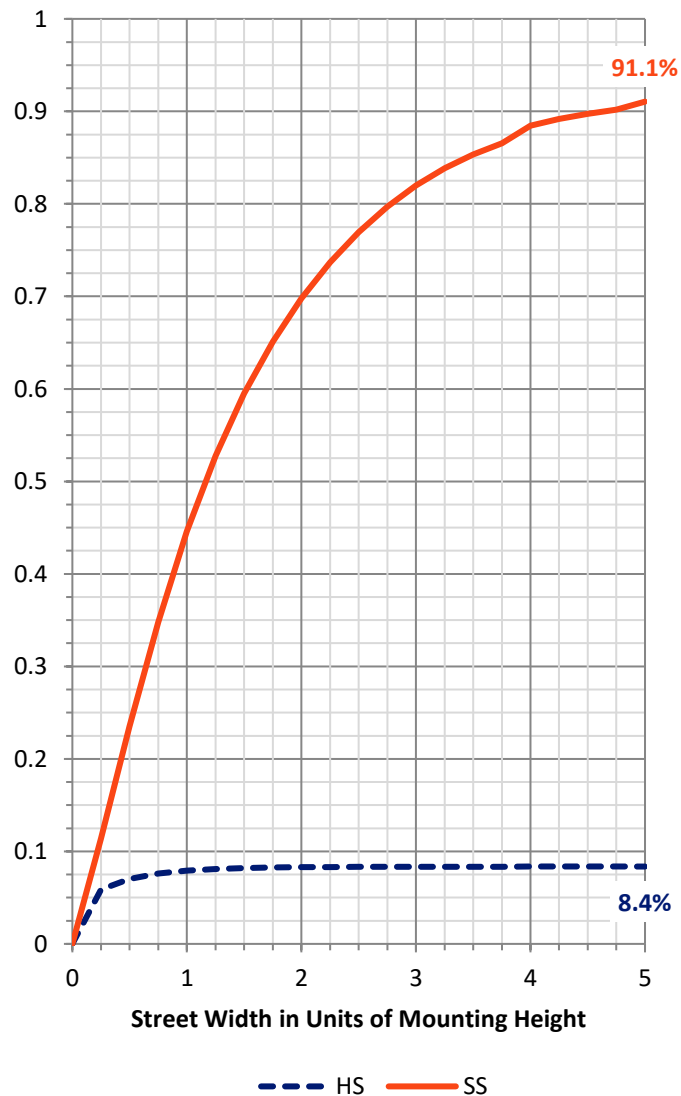
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2215.0	0.0	2215.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	24106.0	0.0	24106.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	26321.0	0.0	26321.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.5	1.6
10°-20°	1008.6	3.8
20°-30°	1604.2	6.1
30°-40°	2411.8	9.2
40°-50°	3679.3	14.0
50°-60°	5200.1	19.8
60°-70°	6522.7	24.8
70°-80°	4877.1	18.5
80°-90°	604.8	2.3
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°	26321.0	100.0
0°-180°	26321.0	100.0

Coefficient of Utilization



REPORT NUMBER: P323779

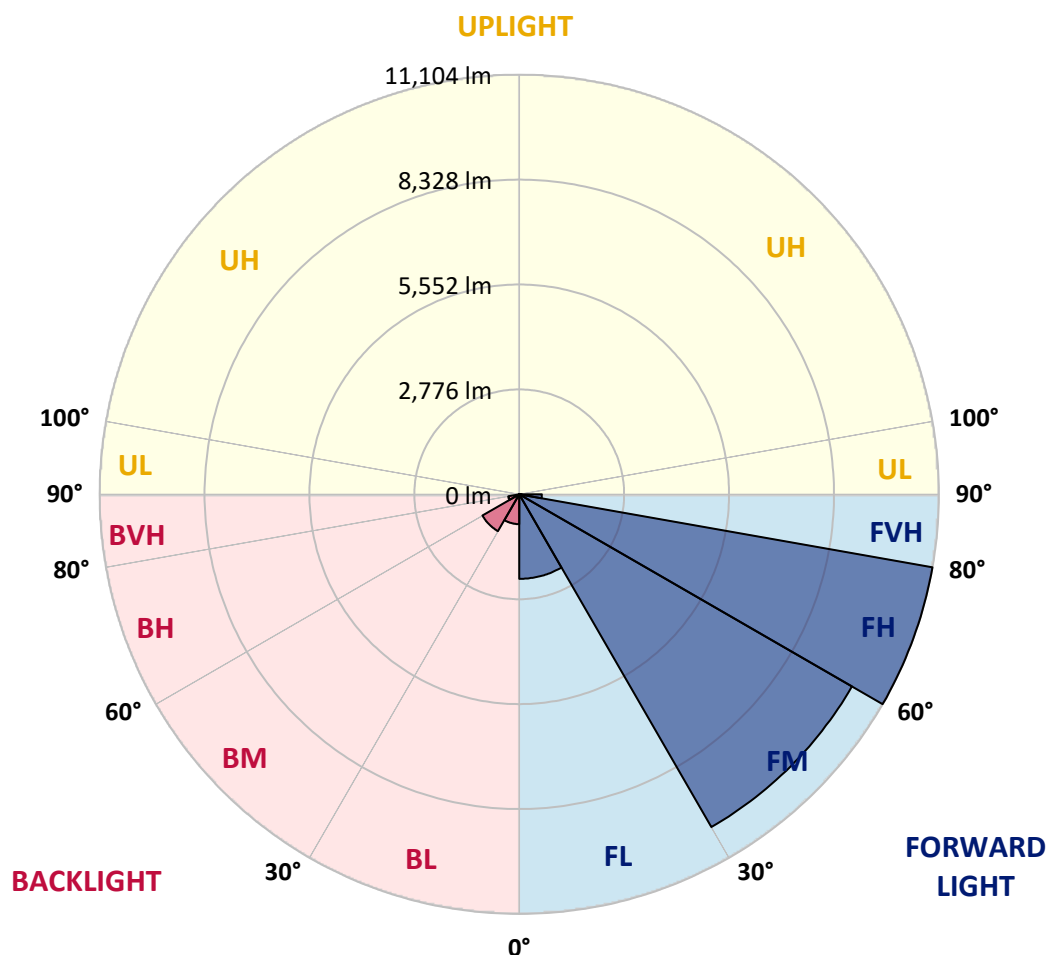
CATALOG NUMBER: GAN-SA5D-727-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2236.6	8.5			
FM	(30°-60°)	10166.3	38.6			
FH	(60°-80°)	11103.9	42.2			G4/12000
FVH	(80°-90°)	599.1	2.3			G4/750
BL	(0°-30°)	788.7	3.0	B2/1000		
BM	(30°-60°)	1124.8	4.3	B2/2500		
BH	(60°-80°)	295.9	1.1	B1/500		G1/500
BVH	(80°-90°)	5.6	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 IV Short





REPORT NUMBER: P323779

CATALOG NUMBER: GAN-SA5D-727-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4840.3	4840.3	4840.3	4840.3	4840.3	4840.3	4840.3	4840.3	4840.3	4840.3	4840.3
2.5°	5137.7	5138.8	5126.7	5107.1	5081.9	5068.8	5046.9	5012.0	4974.8	4908.1	4836.0
5°	5242.6	5242.6	5227.3	5201.1	5160.6	5148.6	5107.1	5051.3	4974.8	4866.6	4745.2
7.5°	5231.7	5233.9	5213.1	5185.8	5145.3	5134.4	5084.1	5021.8	4926.7	4795.5	4640.3
10°	5174.8	5180.3	5163.9	5150.8	5113.6	5101.6	5054.6	4992.3	4897.2	4757.3	4579.1
12.5°	5116.9	5122.4	5127.8	5139.9	5116.9	5112.5	5075.4	5022.9	4932.2	4786.8	4585.6
15°	5079.7	5090.7	5130.0	5177.0	5182.5	5178.1	5154.1	5104.9	5013.1	4862.2	4632.7
17.5°	5079.7	5097.2	5179.2	5268.8	5300.5	5303.8	5283.1	5214.2	5104.9	4943.1	4676.4
20°	5122.4	5146.4	5274.3	5401.1	5453.6	5453.6	5413.1	5316.9	5189.1	5016.3	4705.9
22.5°	5231.7	5263.4	5424.1	5570.6	5626.3	5614.3	5559.6	5419.7	5276.5	5099.4	4743.1
25°	5447.0	5471.1	5638.3	5785.9	5819.8	5792.5	5723.6	5544.3	5388.0	5212.0	4810.8
27.5°	5724.7	5728.0	5900.7	6025.3	6004.5	5985.9	5899.6	5700.6	5548.7	5372.7	4927.8
30°	6029.7	6029.7	6181.6	6276.7	6213.3	6198.0	6111.6	5889.7	5754.2	5591.3	5093.9
32.5°	6324.8	6337.9	6461.4	6521.6	6450.5	6435.2	6351.0	6129.1	6027.5	5924.7	5353.0
35°	6610.1	6619.9	6736.9	6769.7	6701.9	6706.3	6646.2	6458.2	6419.9	6406.8	5743.3
37.5°	6886.7	6888.9	7008.0	7028.8	6994.9	7032.1	7037.5	6871.4	6942.4	7048.5	6293.1
40°	7139.2	7141.4	7259.4	7313.0	7370.9	7419.0	7461.7	7373.1	7608.1	7854.1	6947.9
42.5°	7341.4	7364.4	7514.1	7615.8	7768.8	7860.6	7976.5	7972.1	8400.6	8770.1	7739.3
45°	7519.6	7558.9	7767.7	7945.9	8208.3	8354.7	8536.2	8678.3	9292.6	9790.0	8540.6
47.5°	7754.6	7791.8	8030.1	8321.9	8671.7	8864.1	9164.7	9471.9	10273.2	10791.3	9323.2
50°	8085.8	8069.4	8304.4	8723.1	9172.4	9424.9	9853.4	10313.6	11246.0	11663.6	9783.4
52.5°	8438.9	8432.3	8606.2	9159.3	9762.7	10057.8	10624.1	11183.7	12176.3	12264.8	9994.4
55°	8876.2	8829.1	8975.6	9656.6	10463.4	10780.4	11447.2	12045.1	12917.4	12603.7	10100.4
57.5°	9334.2	9256.6	9396.5	10210.9	11253.7	11628.6	12358.8	12884.6	13410.4	12835.4	10099.4
60°	9807.5	9715.7	9881.8	10903.9	12235.3	12669.3	13347.0	13452.0	13870.6	12952.4	10025.0
62.5°	10203.2	10148.5	10395.6	11645.0	13331.7	13758.0	14093.6	13967.9	14258.7	13043.1	9851.2
65°	10621.9	10625.1	11024.1	12509.7	14497.0	14784.5	14812.9	14636.9	14583.3	13024.6	9263.1
67.5°	11188.1	11240.6	11906.3	13683.7	15630.6	15852.5	15850.3	15361.6	14820.6	12285.6	7959.0
70°	11787.1	11910.7	12922.9	15027.2	16868.0	17093.2	16977.3	15822.9	13954.8	9934.3	5632.9
72.5°	11686.6	11900.8	13488.0	15874.3	17756.7	17928.3	17175.1	14689.4	11029.6	5773.9	2398.3
75°	9016.1	9264.2	12367.6	15034.8	16824.2	16670.1	14757.1	11430.8	6027.5	1611.3	540.0
77.5°	4762.7	4895.0	8170.0	11453.7	13118.6	12796.1	10395.6	6341.2	1837.5	399.0	242.7
80°	2494.5	2525.1	3560.3	6498.6	8096.8	8098.9	6160.8	2785.3	757.5	204.4	162.9
82.5°	1335.8	1362.0	1881.3	3002.8	4242.4	3845.6	2359.0	1532.6	440.5	115.9	156.3
85°	321.4	326.8	1066.9	1371.9	1668.1	1191.5	700.7	1286.6	119.2	67.8	126.8
87.5°	123.5	125.7	395.7	593.6	425.2	275.5	327.9	479.9	15.3	26.2	19.7
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: P323779

CATALOG NUMBER: GAN-SA5D-727-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4840.3	4840.3	4840.3	4840.3	4840.3	4840.3	4840.3	4840.3	4840.3	4840.3	4840.3
2.5°	4792.2	4763.8	4693.9	4605.3	4526.6	4469.8	4384.5	4328.8	4291.6	4290.5	4276.3
5°	4670.9	4613.0	4462.1	4282.9	4120.0	3973.5	3800.8	3664.1	3562.5	3546.1	3511.1
7.5°	4540.8	4445.7	4214.0	3934.1	3660.9	3383.2	3060.7	2860.7	2689.1	2607.1	2598.4
10°	4461.0	4327.7	3998.6	3594.2	3165.7	2714.2	2292.3	2000.4	1789.4	1729.3	1684.5
12.5°	4444.6	4268.6	3832.5	3275.0	2662.8	2066.0	1599.2	1288.8	1120.5	1066.9	1052.7
15°	4461.0	4241.3	3692.6	2959.1	2153.5	1465.9	1073.4	893.1	829.7	814.4	813.3
17.5°	4470.9	4208.5	3534.1	2608.2	1659.4	1047.2	822.0	769.6	759.7	758.6	760.8
20°	4469.8	4158.2	3345.0	2216.9	1234.1	823.1	743.3	732.4	730.2	731.3	730.2
22.5°	4462.1	4099.2	3137.3	1813.5	932.4	735.7	709.4	702.9	701.8	701.8	701.8
25°	4476.3	4052.2	2908.8	1427.6	768.5	695.2	678.8	673.4	672.3	672.3	670.1
27.5°	4527.7	4026.0	2658.5	1098.6	694.1	659.2	646.0	644.9	641.7	640.6	642.8
30°	4610.8	4026.0	2384.1	854.8	649.3	622.0	612.1	610.0	608.9	607.8	608.9
32.5°	4757.3	4056.6	2084.6	710.5	606.7	580.4	573.9	577.2	573.9	573.9	573.9
35°	5021.8	4148.4	1770.9	619.8	561.9	540.0	533.4	537.8	535.6	535.6	534.5
37.5°	5407.7	4318.9	1454.9	565.1	522.5	499.6	490.8	497.4	495.2	495.2	494.1
40°	5877.7	4567.1	1154.3	523.6	484.3	460.2	452.6	455.8	450.4	450.4	452.6
42.5°	6458.2	4881.9	892.0	483.2	446.0	423.0	418.7	415.4	405.5	400.1	401.2
45°	7103.1	5209.8	695.2	443.8	409.9	391.3	384.8	376.0	359.6	348.7	349.8
47.5°	7679.2	5462.3	565.1	405.5	377.1	362.9	353.1	336.7	312.6	299.5	300.6
50°	7982.0	5500.6	481.0	367.3	346.5	332.3	318.1	293.0	264.5	250.3	249.2
52.5°	8059.6	5321.3	418.7	332.3	315.9	299.5	280.9	247.0	215.3	200.0	197.9
55°	8088.0	5048.0	362.9	299.5	283.1	264.5	240.5	202.2	172.7	157.4	156.3
57.5°	7994.0	4640.3	319.2	270.0	250.3	227.4	197.9	161.8	133.4	121.3	121.3
60°	7785.2	4088.3	285.3	238.3	216.4	190.2	159.6	125.7	99.5	89.6	89.6
62.5°	7368.7	3373.4	253.6	205.5	184.7	157.4	129.0	95.1	70.0	64.5	65.6
65°	6582.8	2559.0	221.9	176.0	157.4	130.1	100.6	67.8	47.0	47.0	49.2
67.5°	5368.3	1777.4	189.1	149.8	135.5	106.0	76.5	47.0	32.8	37.2	41.5
70°	3553.7	996.9	161.8	123.5	115.9	84.2	56.8	31.7	26.2	35.0	42.6
72.5°	1341.3	388.1	135.5	99.5	100.6	64.5	40.4	24.0	24.0	38.3	50.3
75°	373.8	190.2	97.3	73.2	78.7	47.0	29.5	20.8	23.0	43.7	59.0
77.5°	219.7	139.9	63.4	42.6	53.6	32.8	19.7	16.4	19.7	37.2	56.8
80°	177.1	74.3	37.2	21.9	29.5	18.6	13.1	9.8	5.5	14.2	29.5
82.5°	177.1	44.8	17.5	15.3	15.3	9.8	6.6	4.4	1.1	0.0	7.7
85°	119.2	18.6	10.9	9.8	7.7	3.3	2.2	1.1	0.0	0.0	0.0
87.5°	19.7	7.7	4.4	2.2	1.1	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)