

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: P316931

Luminaire Tested: **GAN-SA7C-827-U-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-827-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37937 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

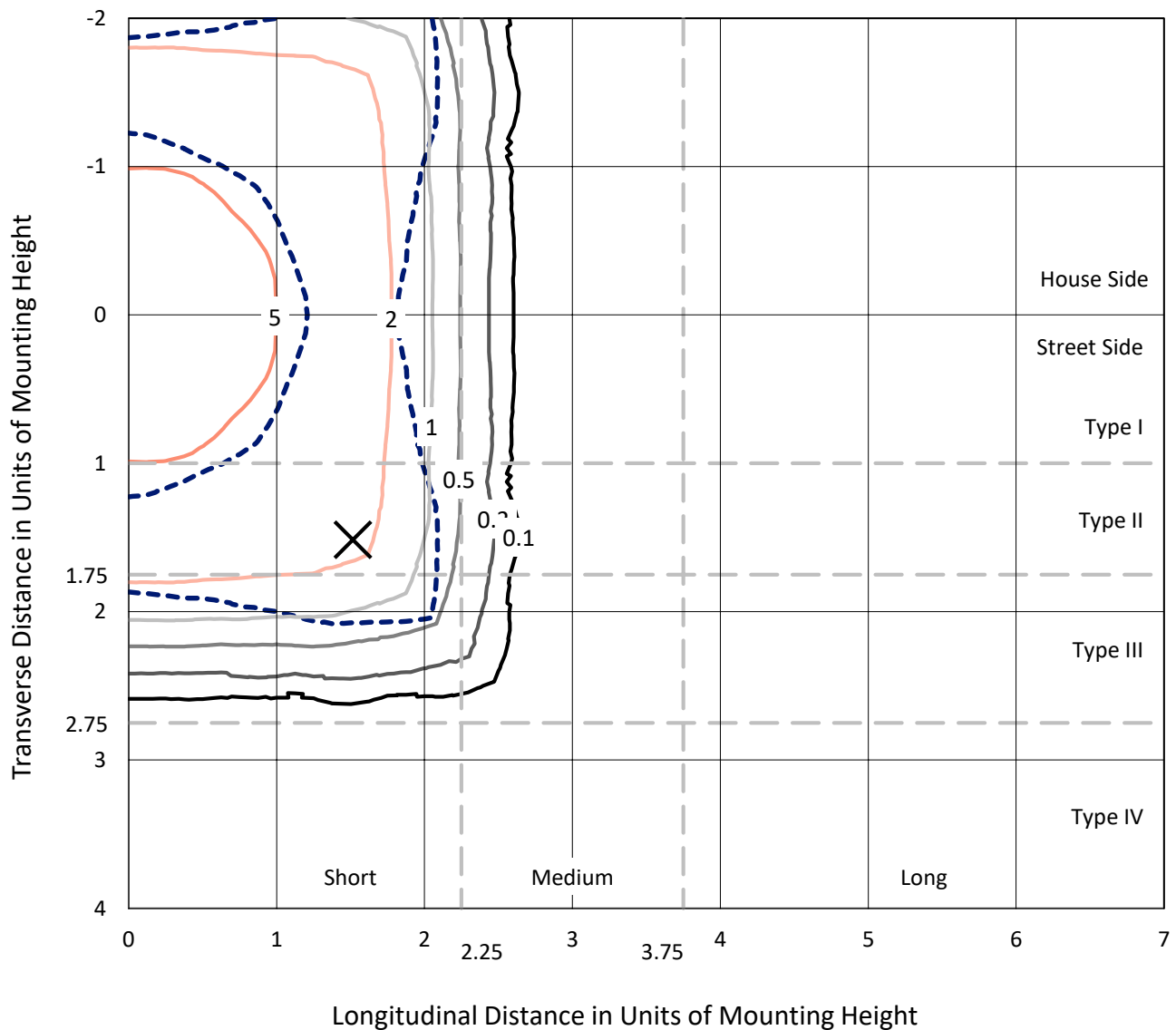
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

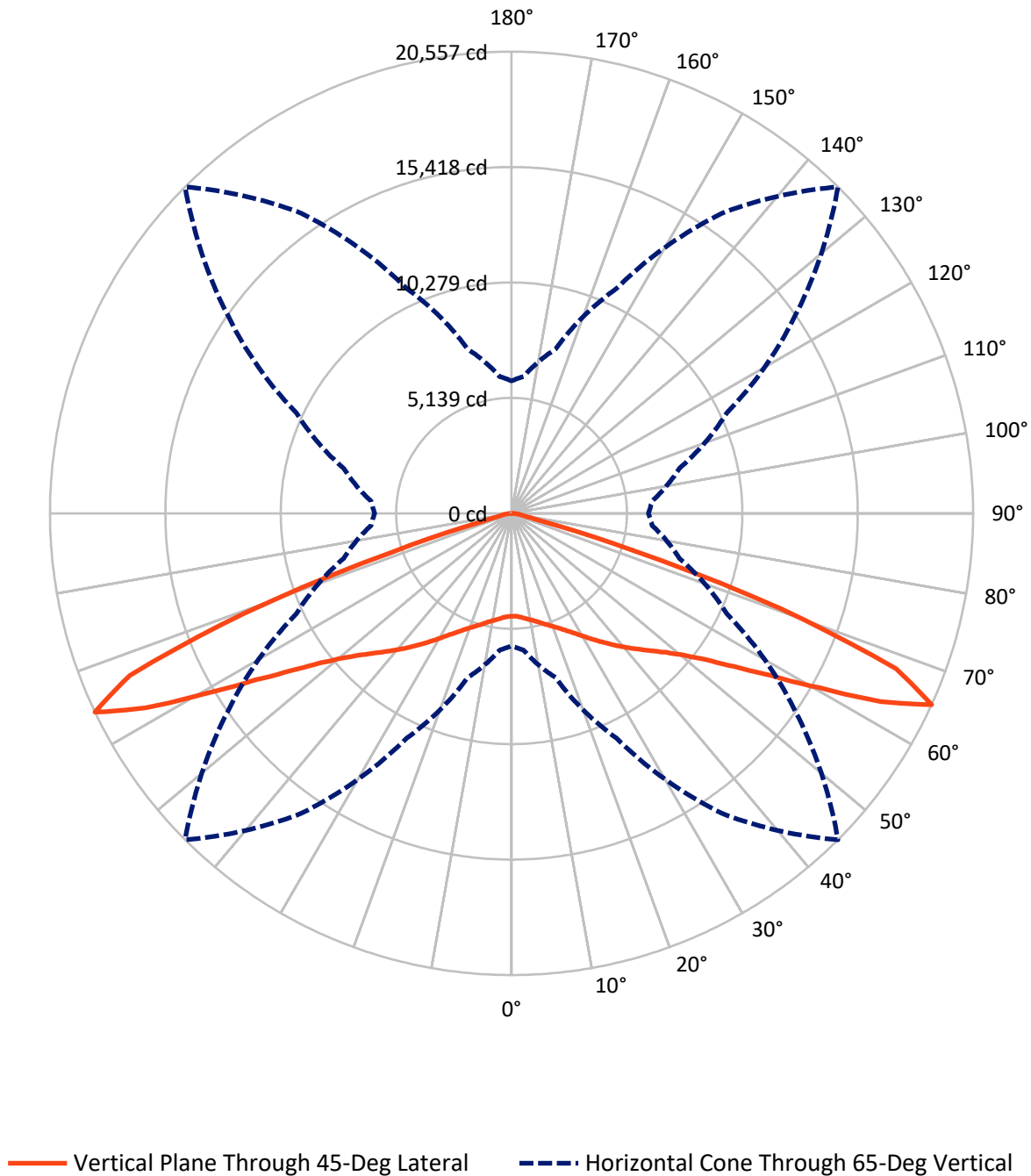
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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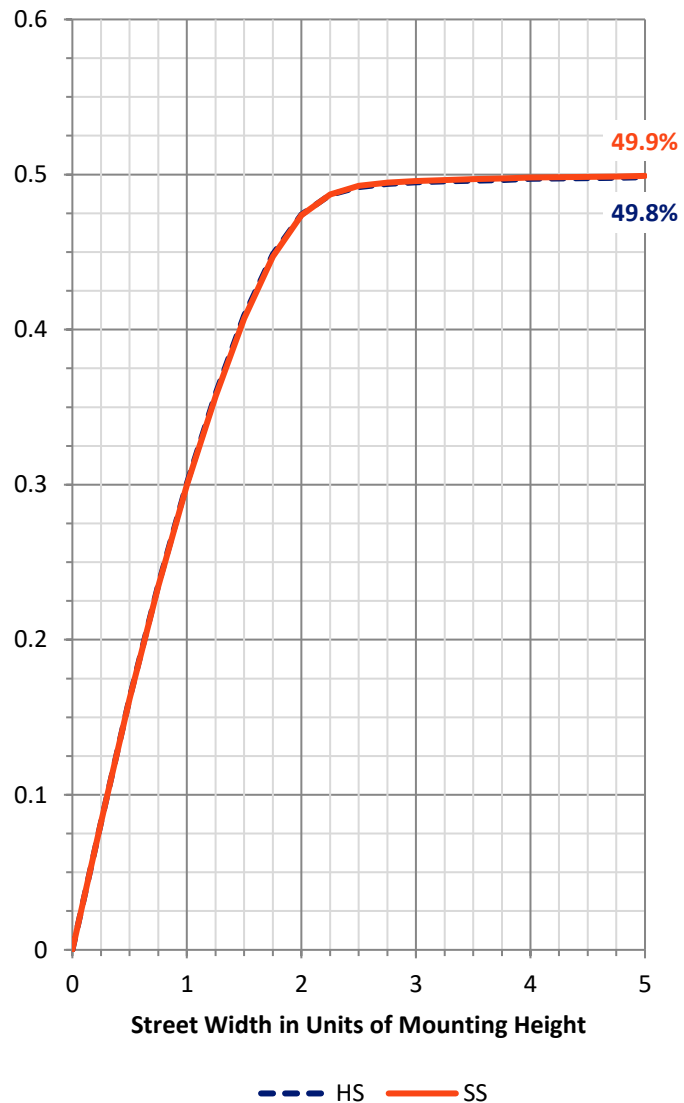
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18968.5	0.0	18968.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18968.5	0.0	18968.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	37937.0	0.0	37937.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.5	1.2
10°-20°	1444.8	3.8
20°-30°	2710.7	7.1
30°-40°	4483.0	11.8
40°-50°	6943.5	18.3
50°-60°	10649.4	28.1
60°-70°	9937.1	26.2
70°-80°	1156.5	3.0
80°-90°	162.5	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°	37937.0	100.0
0°-180°	37937.0	100.0

Coefficient of Utilization



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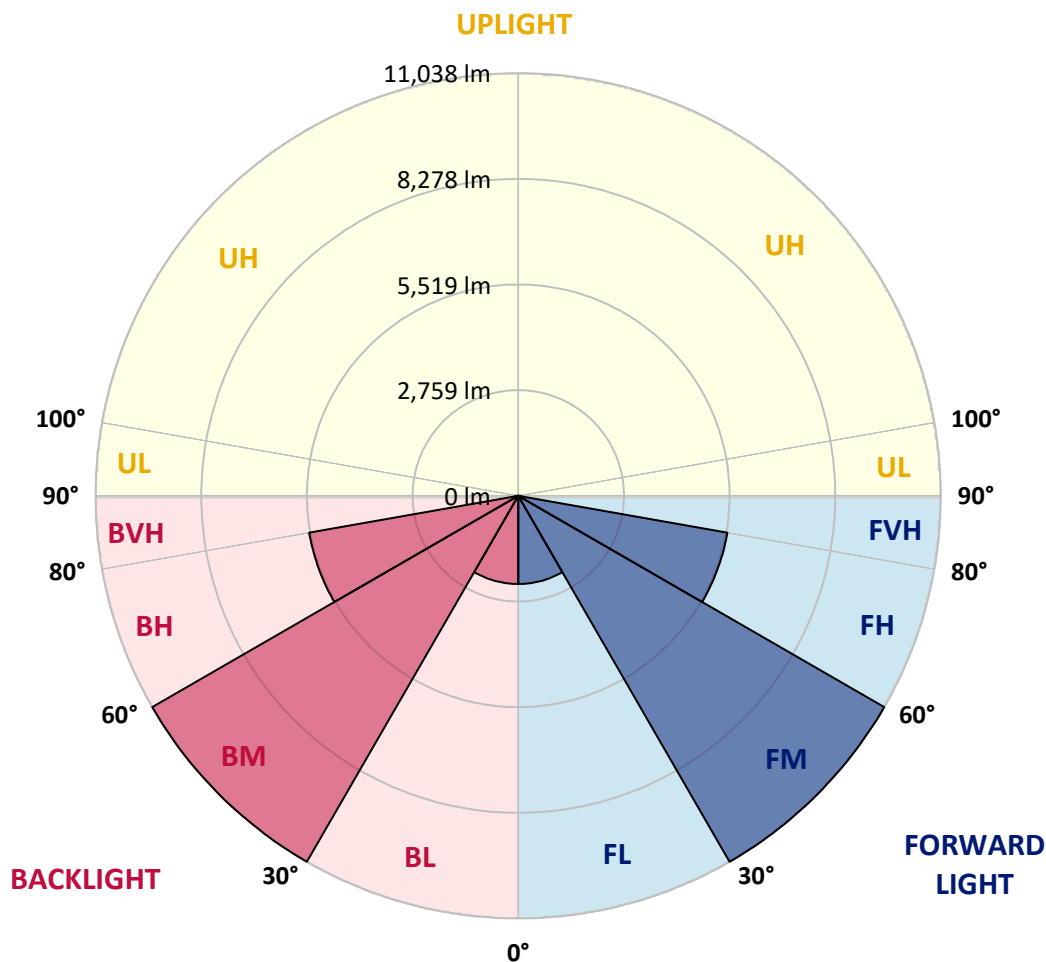
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2302.5	6.1			
FM	(30°-60°)	11037.9	29.1			
FH	(60°-80°)	5546.8	14.6			G3/7500
FVH	(80°-90°)	81.3	0.2			G1/100
BL	(0°-30°)	2302.5	6.1	B3/2500		
BM	(30°-60°)	11037.9	29.1	B5		
BH	(60°-80°)	5546.8	14.6	B5		G3/7500
BVH	(80°-90°)	81.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4581.4	4581.4	4581.4	4581.4	4581.4	4581.4	4581.4	4581.4	4581.4	4581.4	4581.4
2.5°	4596.5	4594.0	4596.5	4597.7	4590.2	4594.0	4592.7	4599.0	4601.5	4599.0	4599.0
5°	4649.4	4645.6	4650.6	4656.9	4646.9	4649.4	4645.6	4653.2	4655.7	4650.6	4654.4
7.5°	4722.4	4723.7	4728.7	4740.0	4733.7	4738.8	4731.2	4732.5	4731.2	4723.7	4724.9
10°	4801.8	4803.0	4811.8	4826.9	4829.5	4829.5	4824.4	4820.6	4815.6	4810.6	4811.8
12.5°	4897.5	4903.8	4910.1	4928.9	4928.9	4939.0	4936.5	4926.4	4917.6	4910.1	4910.1
15°	5027.2	5025.9	5033.5	5052.4	5061.2	5077.5	5077.5	5063.7	5052.4	5044.8	5042.3
17.5°	5163.2	5167.0	5172.0	5194.7	5208.5	5227.4	5229.9	5218.6	5211.0	5201.0	5194.7
20°	5321.8	5328.1	5348.3	5357.1	5369.7	5387.3	5393.6	5391.1	5383.6	5378.5	5379.8
22.5°	5507.0	5523.3	5535.9	5548.5	5563.6	5576.2	5582.5	5591.3	5583.8	5580.0	5577.5
25°	5731.1	5742.5	5767.6	5790.3	5800.4	5804.2	5811.7	5824.3	5823.1	5814.2	5814.2
27.5°	5985.5	6006.9	6038.4	6071.1	6071.1	6058.5	6083.7	6105.1	6097.6	6086.2	6071.1
30°	6294.0	6314.2	6350.7	6396.0	6373.4	6364.6	6398.6	6437.6	6426.3	6407.4	6404.9
32.5°	6626.5	6645.4	6693.2	6742.4	6713.4	6700.8	6737.3	6794.0	6773.8	6736.1	6713.4
35°	6986.7	7005.5	7073.5	7132.7	7083.6	7062.2	7092.4	7154.1	7118.9	7048.4	7030.7
37.5°	7378.3	7388.4	7476.5	7537.0	7503.0	7446.3	7484.1	7529.4	7499.2	7413.6	7379.6
40°	7785.1	7821.6	7923.6	7994.1	7934.9	7845.5	7908.5	7971.4	7926.1	7816.5	7758.6
42.5°	8259.8	8287.5	8423.5	8486.5	8390.8	8264.9	8350.5	8436.1	8390.8	8285.0	8234.6
45°	8753.5	8796.3	8958.7	9021.7	8883.2	8723.2	8827.8	8977.6	8973.8	8821.5	8768.6
47.5°	9291.2	9334.0	9527.9	9611.1	9461.2	9247.1	9394.5	9606.0	9590.9	9423.4	9380.6
50°	9912.0	9957.4	10199.2	10303.7	10163.9	9914.6	10136.2	10322.6	10294.9	10088.3	10092.1
52.5°	10691.5	10689.0	10990.0	11171.3	11027.8	10807.4	11011.4	11192.8	11078.2	10792.3	10783.5
55°	11374.1	11415.7	11788.4	12132.2	12123.4	12039.0	12120.9	12128.4	11801.0	11420.7	11374.1
57.5°	11822.4	11901.7	12426.9	13049.0	13514.9	13627.0	13468.3	12987.3	12220.4	11612.1	11537.8
60°	11546.6	11667.5	12492.4	13760.5	15133.1	15791.8	14896.4	13404.1	11894.2	11046.7	10945.9
62.5°	9685.4	9889.4	11097.0	13416.7	16525.9	18451.4	15931.5	12735.4	10597.1	9429.7	9257.2
65°	5898.6	6114.0	7569.7	11042.9	16300.5	20557.0	15459.3	10570.7	7734.7	6282.7	6096.3
67.5°	1965.8	2028.7	2886.3	6103.9	12811.0	18470.3	12832.4	6328.0	3366.1	2231.5	2166.0
70°	769.4	775.7	915.5	1769.3	6049.7	12686.3	6675.6	1800.8	957.1	756.8	773.2
72.5°	565.4	567.9	607.0	739.2	1576.7	5588.8	1633.3	743.0	590.6	530.2	530.2
75°	454.6	454.6	482.3	539.0	706.5	1282.0	716.5	532.7	462.2	423.1	418.1
77.5°	358.9	366.5	387.9	424.4	478.5	617.1	496.2	421.9	372.8	336.2	328.7
80°	267.0	274.5	309.8	327.4	343.8	428.2	366.5	329.9	294.7	251.9	244.3
82.5°	175.0	182.6	226.7	236.8	233.0	279.6	246.8	243.0	216.6	162.5	154.9
85°	114.6	117.1	151.1	157.4	144.8	127.2	157.4	166.2	151.1	105.8	102.0
87.5°	54.2	54.2	76.8	71.8	65.5	52.9	71.8	84.4	85.6	51.6	50.4
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)