

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: P316969

Luminaire Tested: **GAN-SA5C-830-U-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316969
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-SA5C-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 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: 28977 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

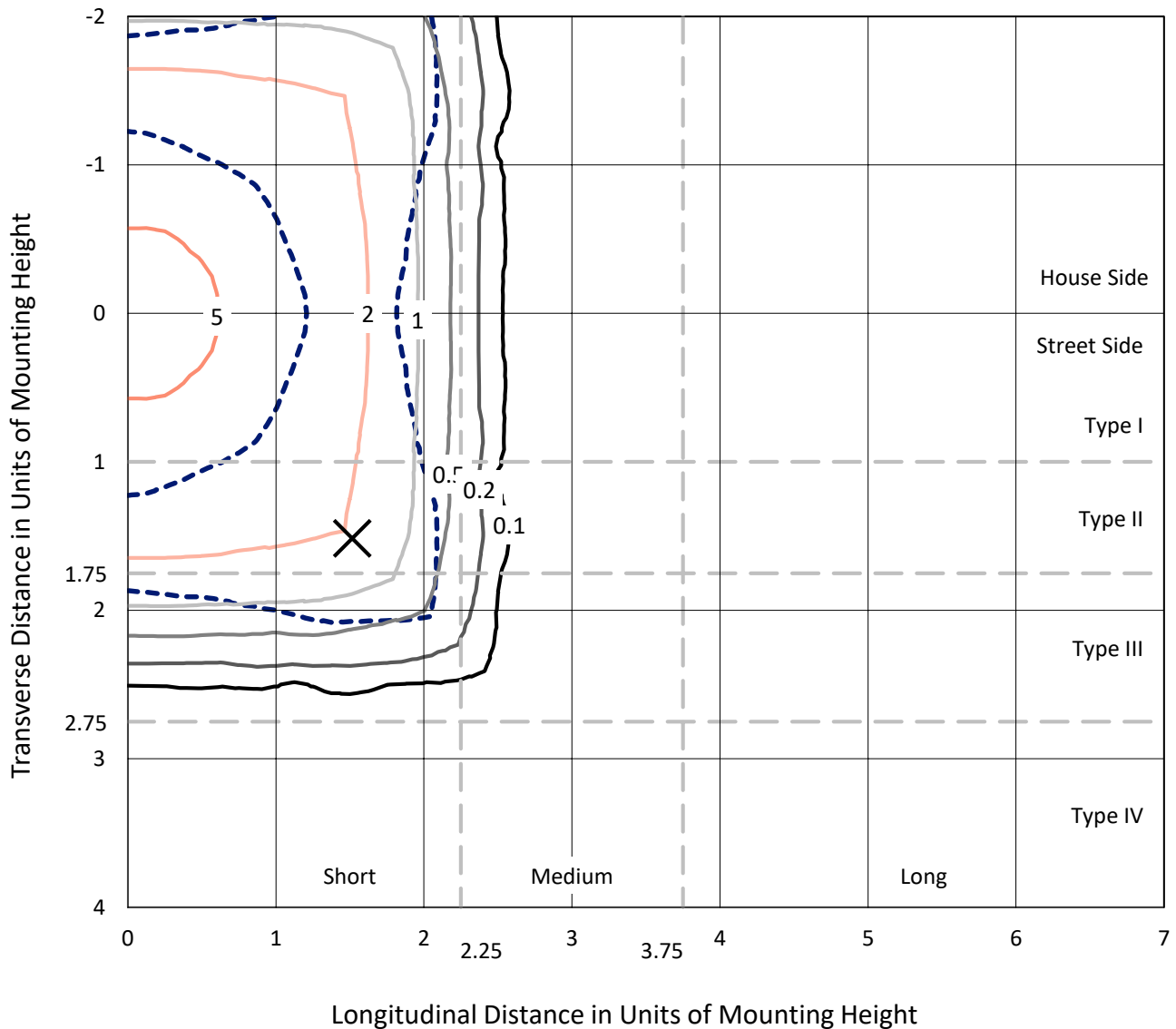
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

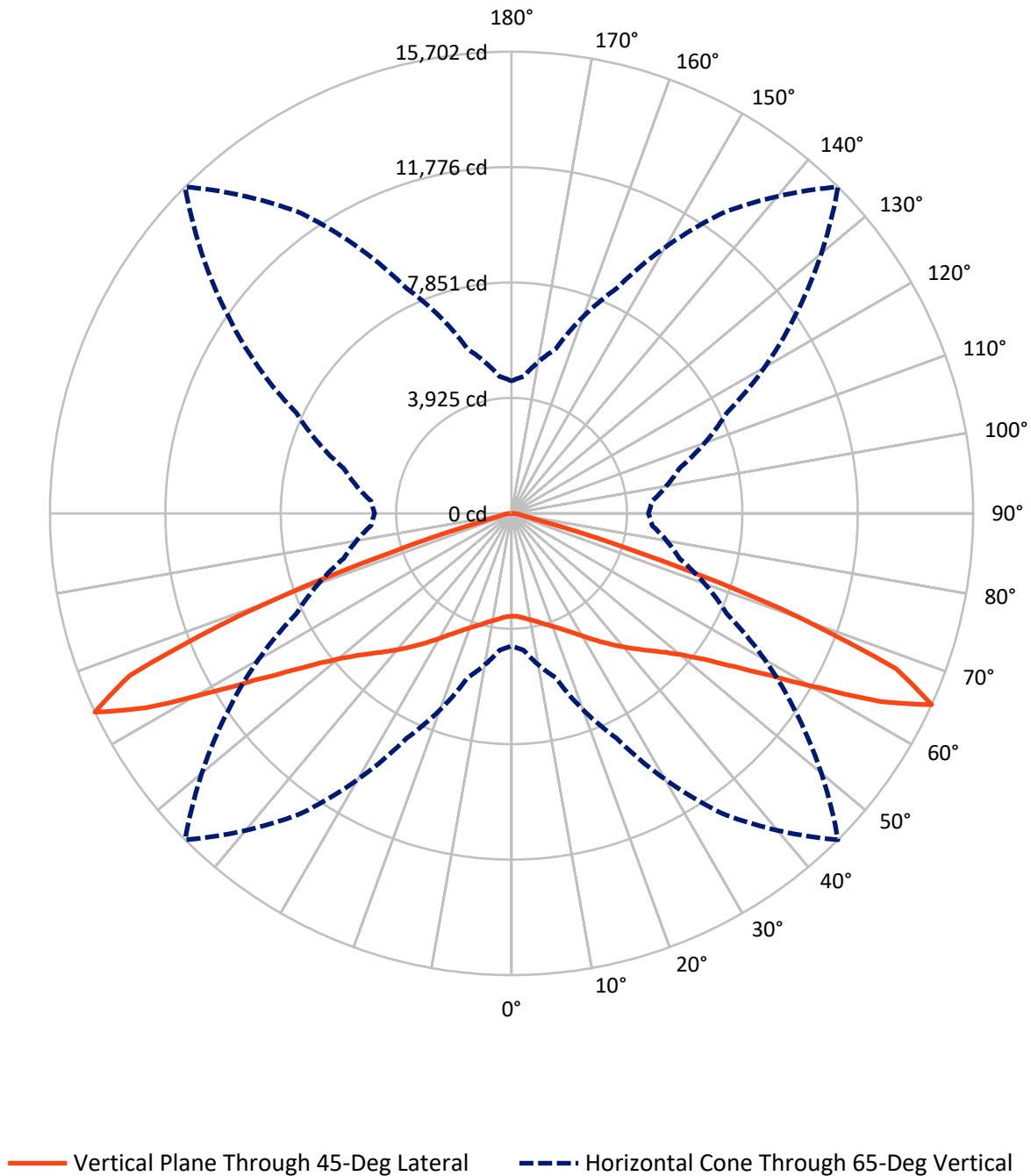
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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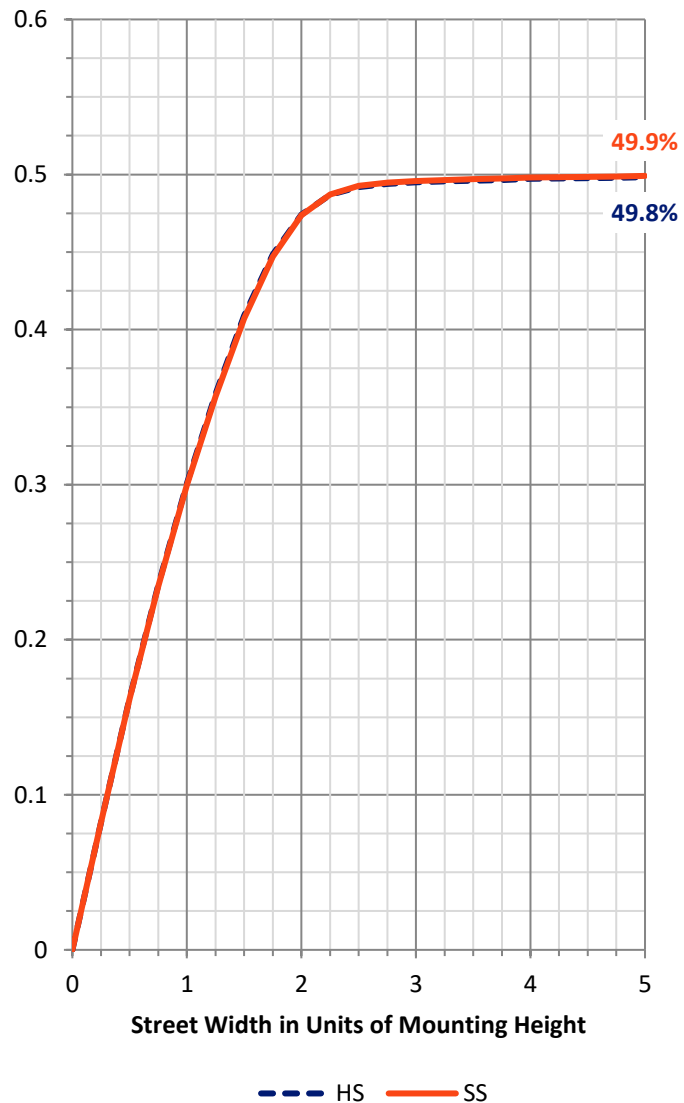
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14488.5	0.0	14488.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14488.5	0.0	14488.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	28977.0	0.0	28977.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.3	1.2
10°-20°	1103.6	3.8
20°-30°	2070.5	7.1
30°-40°	3424.2	11.8
40°-50°	5303.6	18.3
50°-60°	8134.2	28.1
60°-70°	7590.1	26.2
70°-80°	883.4	3.0
80°-90°	124.1	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°	28977.0	100.0
0°-180°	28977.0	100.0

Coefficient of Utilization



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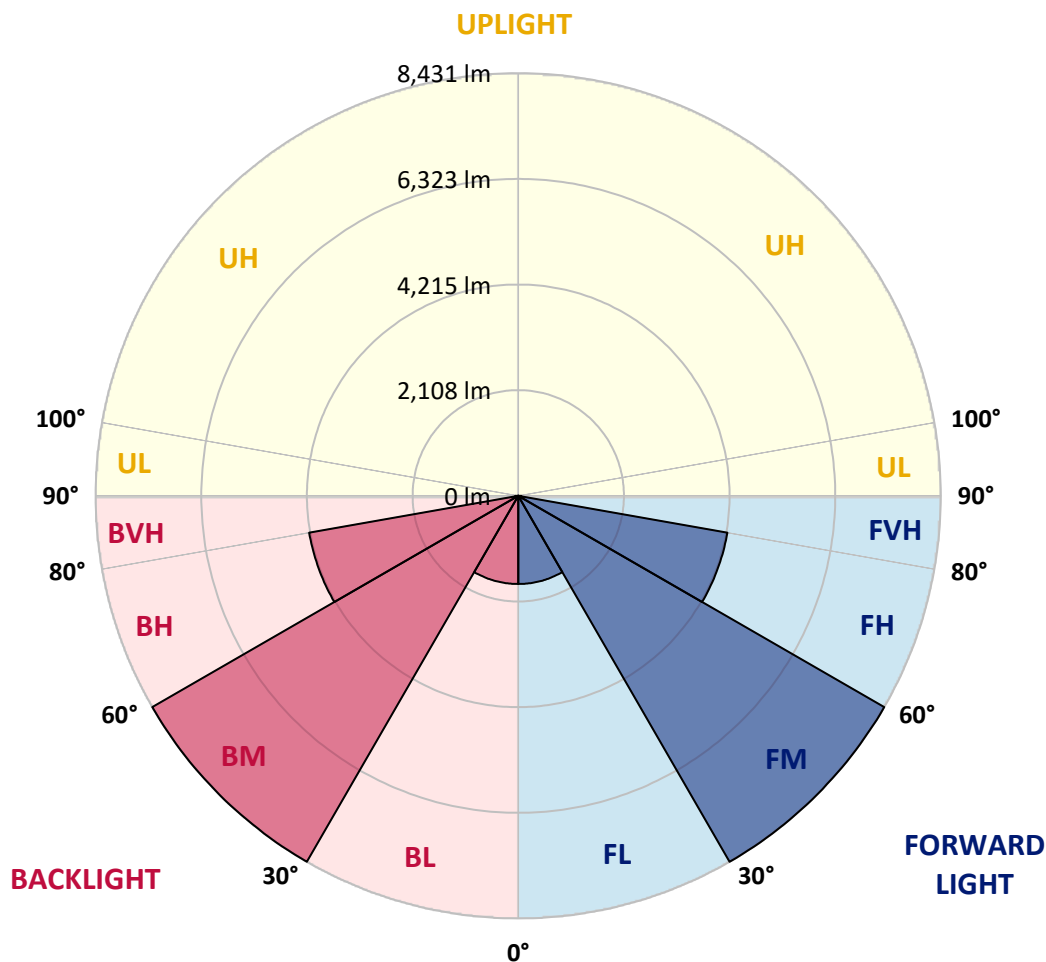
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1758.7	6.1			
FM	(30°-60°)	8431.0	29.1			
FH	(60°-80°)	4236.8	14.6			G2/5000
FVH	(80°-90°)	62.1	0.2			G1/100
BL	(0°-30°)	1758.7	6.1	B3/2500		
BM	(30°-60°)	8431.0	29.1	B4/8500		
BH	(60°-80°)	4236.8	14.6	B4/5000		G2/5000
BVH	(80°-90°)	62.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3499.3	3499.3	3499.3	3499.3	3499.3	3499.3	3499.3	3499.3	3499.3	3499.3	3499.3
2.5°	3510.9	3509.0	3510.9	3511.8	3506.1	3509.0	3508.0	3512.8	3514.7	3512.8	3512.8
5°	3551.3	3548.4	3552.2	3557.1	3549.4	3551.3	3548.4	3554.2	3556.1	3552.2	3555.1
7.5°	3607.1	3608.0	3611.9	3620.5	3615.7	3619.6	3613.8	3614.8	3613.8	3608.0	3609.0
10°	3667.7	3668.6	3675.4	3686.9	3688.8	3688.8	3685.0	3682.1	3678.3	3674.4	3675.4
12.5°	3740.8	3745.6	3750.4	3764.8	3764.8	3772.5	3770.6	3762.9	3756.2	3750.4	3750.4
15°	3839.8	3838.9	3844.7	3859.1	3865.8	3878.3	3878.3	3867.7	3859.1	3853.3	3851.4
17.5°	3943.7	3946.6	3950.5	3967.8	3978.4	3992.8	3994.7	3986.1	3980.3	3972.6	3967.8
20°	4064.9	4069.7	4085.1	4091.9	4101.5	4114.9	4119.8	4117.8	4112.1	4108.2	4109.2
22.5°	4206.3	4218.8	4228.4	4238.1	4249.6	4259.2	4264.0	4270.8	4265.0	4262.1	4260.2
25°	4377.5	4386.2	4405.4	4422.7	4430.4	4433.3	4439.1	4448.7	4447.8	4441.0	4441.0
27.5°	4571.8	4588.2	4612.2	4637.3	4637.3	4627.6	4646.9	4663.2	4657.4	4648.8	4637.3
30°	4807.5	4822.9	4850.8	4885.4	4868.1	4861.4	4887.3	4917.2	4908.5	4894.1	4892.2
32.5°	5061.4	5075.9	5112.4	5149.9	5127.8	5118.2	5146.1	5189.4	5174.0	5145.1	5127.8
35°	5336.5	5351.0	5402.9	5448.1	5410.6	5394.3	5417.3	5464.5	5437.5	5383.7	5370.2
37.5°	5635.7	5643.4	5710.7	5756.9	5730.9	5687.6	5716.5	5751.1	5728.0	5662.6	5636.6
40°	5946.4	5974.3	6052.2	6106.0	6060.8	5992.5	6040.6	6088.7	6054.1	5970.4	5926.2
42.5°	6309.0	6330.2	6434.1	6482.1	6409.0	6312.9	6378.3	6443.7	6409.0	6328.2	6289.8
45°	6686.1	6718.8	6842.9	6890.9	6785.1	6663.0	6742.8	6857.3	6854.4	6738.0	6697.6
47.5°	7096.8	7129.5	7277.6	7341.1	7226.6	7063.1	7175.7	7337.3	7325.7	7197.8	7165.1
50°	7571.0	7605.6	7790.3	7870.1	7763.4	7572.9	7742.2	7884.6	7863.4	7705.7	7708.6
52.5°	8166.4	8164.5	8394.4	8532.9	8423.2	8254.9	8410.7	8549.2	8461.7	8243.4	8236.6
55°	8687.8	8719.5	9004.2	9266.8	9260.1	9195.6	9258.1	9263.9	9013.8	8723.3	8687.8
57.5°	9030.2	9090.8	9491.9	9967.1	10323.0	10408.6	10287.4	9919.9	9334.1	8869.5	8812.8
60°	8819.5	8911.9	9541.9	10510.5	11559.0	12062.0	11378.1	10238.3	9085.0	8437.7	8360.7
62.5°	7397.9	7553.7	8476.1	10247.9	12622.8	14093.5	12168.8	9727.5	8094.3	7202.6	7070.8
65°	4505.5	4670.0	5781.9	8434.8	12450.6	15701.8	11808.1	8074.1	5907.9	4798.8	4656.5
67.5°	1501.5	1549.6	2204.6	4662.3	9785.3	14108.0	9801.6	4833.5	2571.1	1704.5	1654.4
70°	587.7	592.5	699.3	1351.4	4620.9	9690.0	5099.0	1375.5	731.0	578.1	590.6
72.5°	431.9	433.8	463.6	564.6	1204.3	4268.8	1247.6	567.5	451.1	405.0	405.0
75°	347.2	347.2	368.4	411.7	539.6	979.2	547.3	406.9	353.0	323.2	319.3
77.5°	274.1	279.9	296.3	324.2	365.5	471.3	379.0	322.2	284.7	256.8	251.1
80°	203.9	209.7	236.6	250.1	262.6	327.0	279.9	252.0	225.1	192.4	186.6
82.5°	133.7	139.5	173.1	180.8	177.9	213.5	188.5	185.6	165.4	124.1	118.3
85°	87.5	89.5	115.4	120.2	110.6	97.2	120.2	127.0	115.4	80.8	77.9
87.5°	41.4	41.4	58.7	54.8	50.0	40.4	54.8	64.4	65.4	39.4	38.5
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)