

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: P316742

Luminaire Tested: **GAN-SA8D-727-U-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316742
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-SA8D-727-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53642 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

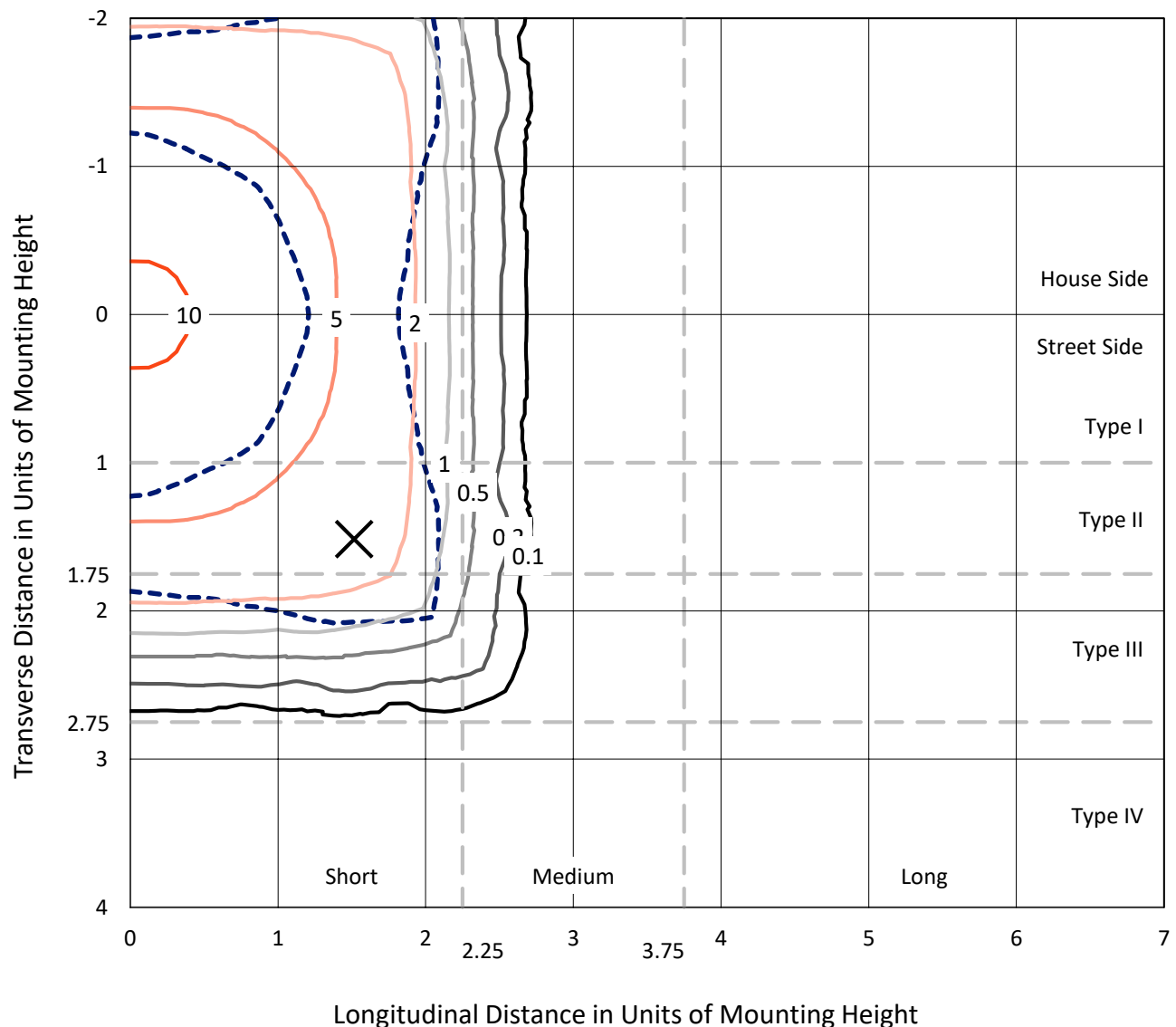
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

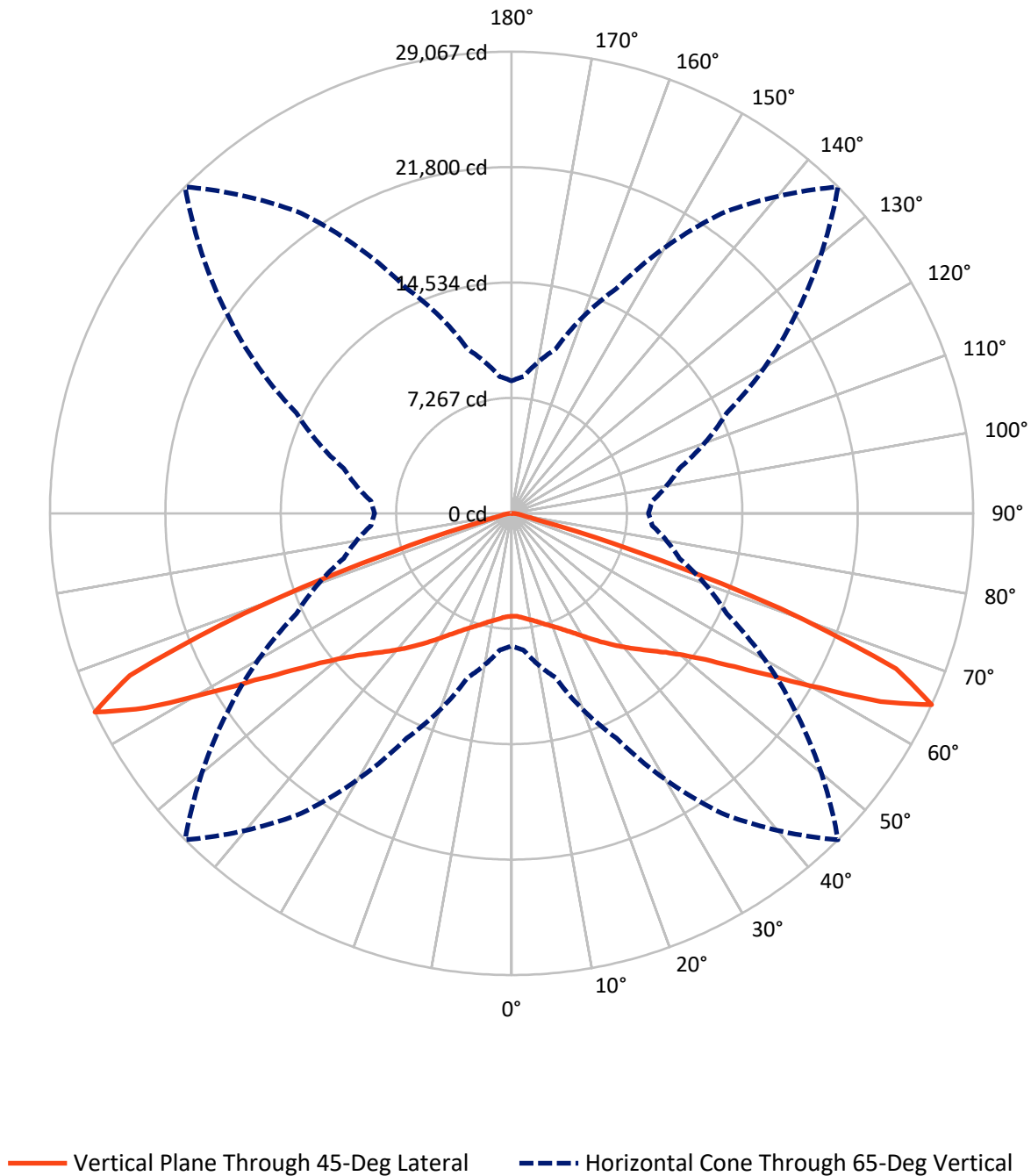
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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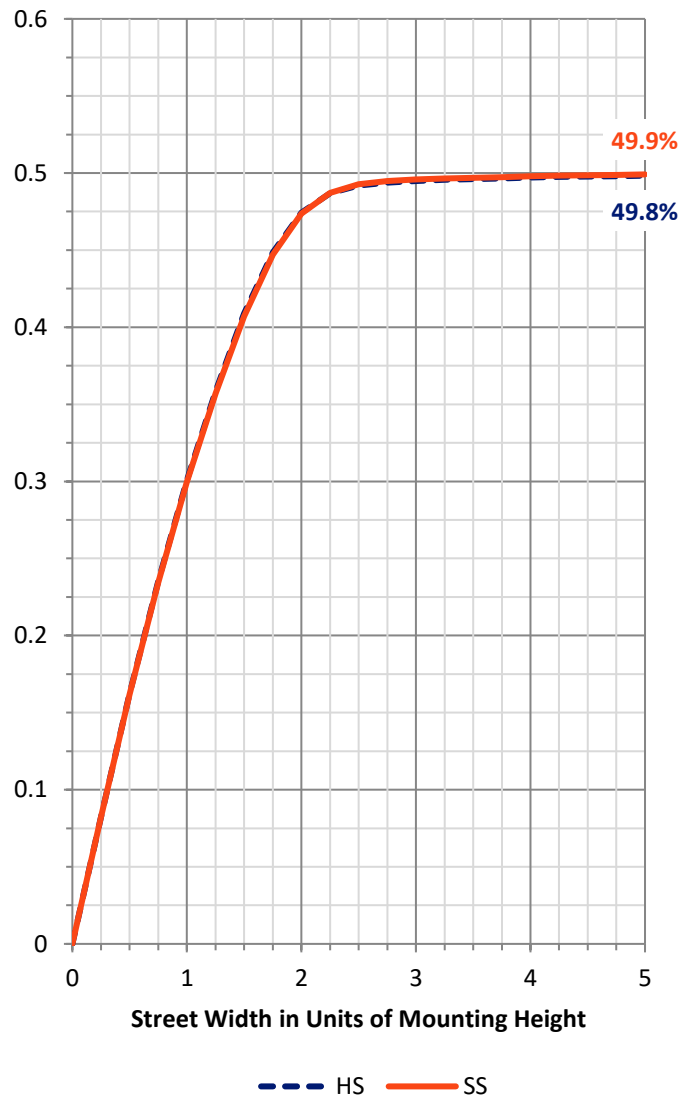
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26821.0	0.0	26821.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26821.0	0.0	26821.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	53642.0	0.0	53642.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.6	1.2
10°-20°	2042.9	3.8
20°-30°	3832.9	7.1
30°-40°	6338.8	11.8
40°-50°	9818.0	18.3
50°-60°	15058.0	28.1
60°-70°	14050.8	26.2
70°-80°	1635.3	3.0
80°-90°	229.8	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°	53642.0	100.0
0°-180°	53642.0	100.0

Coefficient of Utilization



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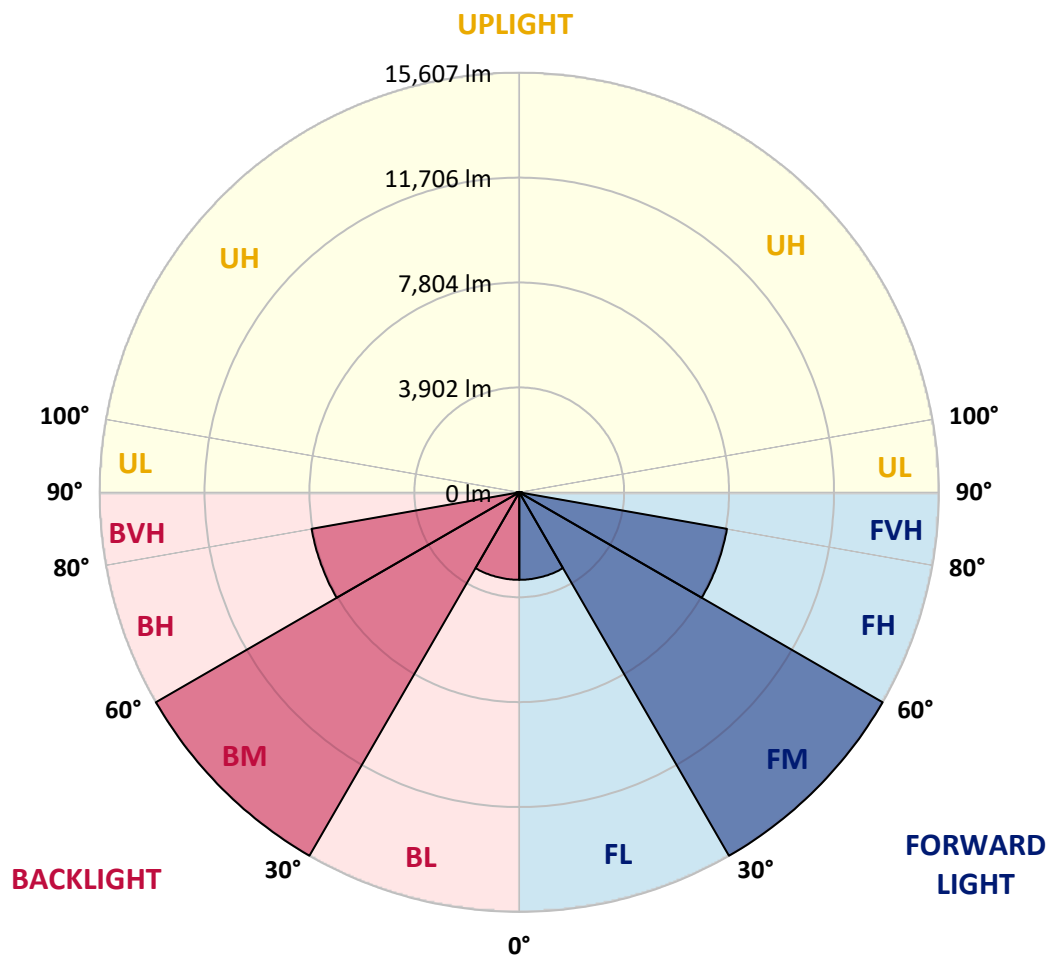
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3255.7	6.1			
FM	(30°-60°)	15607.4	29.1			
FH	(60°-80°)	7843.1	14.6			G4/12000
FVH	(80°-90°)	114.9	0.2			G2/225
BL	(0°-30°)	3255.7	6.1	B4/5000		
BM	(30°-60°)	15607.4	29.1	B5		
BH	(60°-80°)	7843.1	14.6	B5		G4/12000
BVH	(80°-90°)	114.9	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6478.0	6478.0	6478.0	6478.0	6478.0	6478.0	6478.0	6478.0	6478.0	6478.0	6478.0
2.5°	6499.3	6495.8	6499.3	6501.1	6490.4	6495.8	6494.0	6502.9	6506.4	6502.9	6502.9
5°	6574.1	6568.8	6575.9	6584.8	6570.5	6574.1	6568.8	6579.4	6583.0	6575.9	6581.2
7.5°	6677.4	6679.2	6686.3	6702.3	6693.4	6700.5	6689.8	6691.6	6689.8	6679.2	6680.9
10°	6789.6	6791.3	6803.8	6825.2	6828.7	6828.7	6821.6	6816.3	6809.1	6802.0	6803.8
12.5°	6924.9	6933.8	6942.7	6969.4	6969.4	6983.7	6980.1	6965.8	6953.4	6942.7	6942.7
15°	7108.3	7106.5	7117.2	7143.9	7156.4	7179.5	7179.5	7159.9	7143.9	7133.2	7129.7
17.5°	7300.6	7305.9	7313.1	7345.1	7364.7	7391.4	7395.0	7379.0	7368.3	7354.0	7345.1
20°	7525.0	7533.9	7562.4	7574.8	7592.6	7617.6	7626.5	7622.9	7612.2	7605.1	7606.9
22.5°	7786.7	7809.9	7827.7	7845.5	7866.8	7884.7	7893.6	7906.0	7895.3	7890.0	7886.4
25°	8103.7	8119.7	8155.3	8187.4	8201.6	8206.9	8217.6	8235.4	8233.7	8221.2	8221.2
27.5°	8463.4	8493.6	8538.1	8584.4	8584.4	8566.6	8602.2	8632.5	8621.8	8605.8	8584.4
30°	8899.6	8928.1	8979.7	9043.8	9011.8	8999.3	9047.4	9102.6	9086.6	9059.9	9056.3
32.5°	9369.7	9396.4	9464.1	9533.5	9492.6	9474.8	9526.4	9606.5	9578.0	9524.6	9492.6
35°	9879.0	9905.7	10001.8	10085.5	10016.1	9985.8	10028.5	10115.8	10065.9	9966.2	9941.3
37.5°	10432.7	10447.0	10571.6	10657.1	10609.0	10528.9	10582.3	10646.4	10603.7	10482.6	10434.5
40°	11007.9	11059.5	11203.8	11303.5	11219.8	11093.4	11182.4	11271.4	11207.3	11052.4	10970.5
42.5°	11679.2	11718.4	11910.7	11999.7	11864.4	11686.3	11807.4	11928.5	11864.4	11714.8	11643.6
45°	12377.2	12437.7	12667.4	12756.5	12560.6	12334.5	12482.3	12694.1	12688.8	12473.3	12398.6
47.5°	13137.5	13198.1	13472.3	13589.8	13377.9	13075.2	13283.5	13582.7	13561.3	13324.5	13264.0
50°	14015.4	14079.5	14421.4	14569.2	14371.5	14018.9	14332.3	14595.9	14556.7	14264.7	14270.0
52.5°	15117.6	15114.0	15539.6	15796.0	15593.0	15281.4	15569.9	15826.3	15664.2	15260.0	15247.6
55°	16082.7	16141.5	16668.5	17154.6	17142.2	17022.9	17138.6	17149.3	16686.3	16148.6	16082.7
57.5°	16716.6	16828.8	17571.3	18450.9	19109.8	19268.3	19043.9	18363.7	17279.3	16419.2	16314.2
60°	16326.6	16497.6	17663.9	19457.0	21397.9	22329.2	21063.1	18953.1	16818.1	15619.7	15477.3
62.5°	13694.9	13983.3	15691.0	18970.9	23367.3	26089.9	22526.8	18007.6	14984.0	13333.4	13089.4
65°	8340.5	8645.0	10703.4	15614.4	23048.5	29067.1	21859.1	14946.7	10936.7	8883.6	8620.1
67.5°	2779.6	2868.6	4081.2	8630.7	18114.4	26116.6	18144.7	8947.7	4759.6	3155.3	3062.7
70°	1088.0	1096.9	1294.5	2501.8	8554.2	17938.1	9439.1	2546.3	1353.3	1070.2	1093.3
72.5°	799.5	803.1	858.3	1045.2	2229.4	7902.5	2309.5	1050.6	835.1	749.6	749.6
75°	642.8	642.8	682.0	762.1	998.9	1812.7	1013.2	753.2	653.5	598.3	591.2
77.5°	507.5	518.2	548.4	600.1	676.6	872.5	701.6	596.5	527.1	475.4	464.7
80°	377.5	388.2	438.0	463.0	486.1	605.4	518.2	466.5	416.7	356.1	345.4
82.5°	247.5	258.2	320.5	334.8	329.4	395.3	349.0	343.7	306.3	229.7	219.0
85°	162.0	165.6	213.7	222.6	204.8	179.8	222.6	235.0	213.7	149.6	144.2
87.5°	76.6	76.6	108.6	101.5	92.6	74.8	101.5	119.3	121.1	73.0	71.2
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)