

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: LUMARK

Report Number: P970921

Luminaire Tested: **NAV-SB6C-740-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-740-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48719.3 lumens
Efficiency: N/A
Efficacy: 161.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 300.9
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



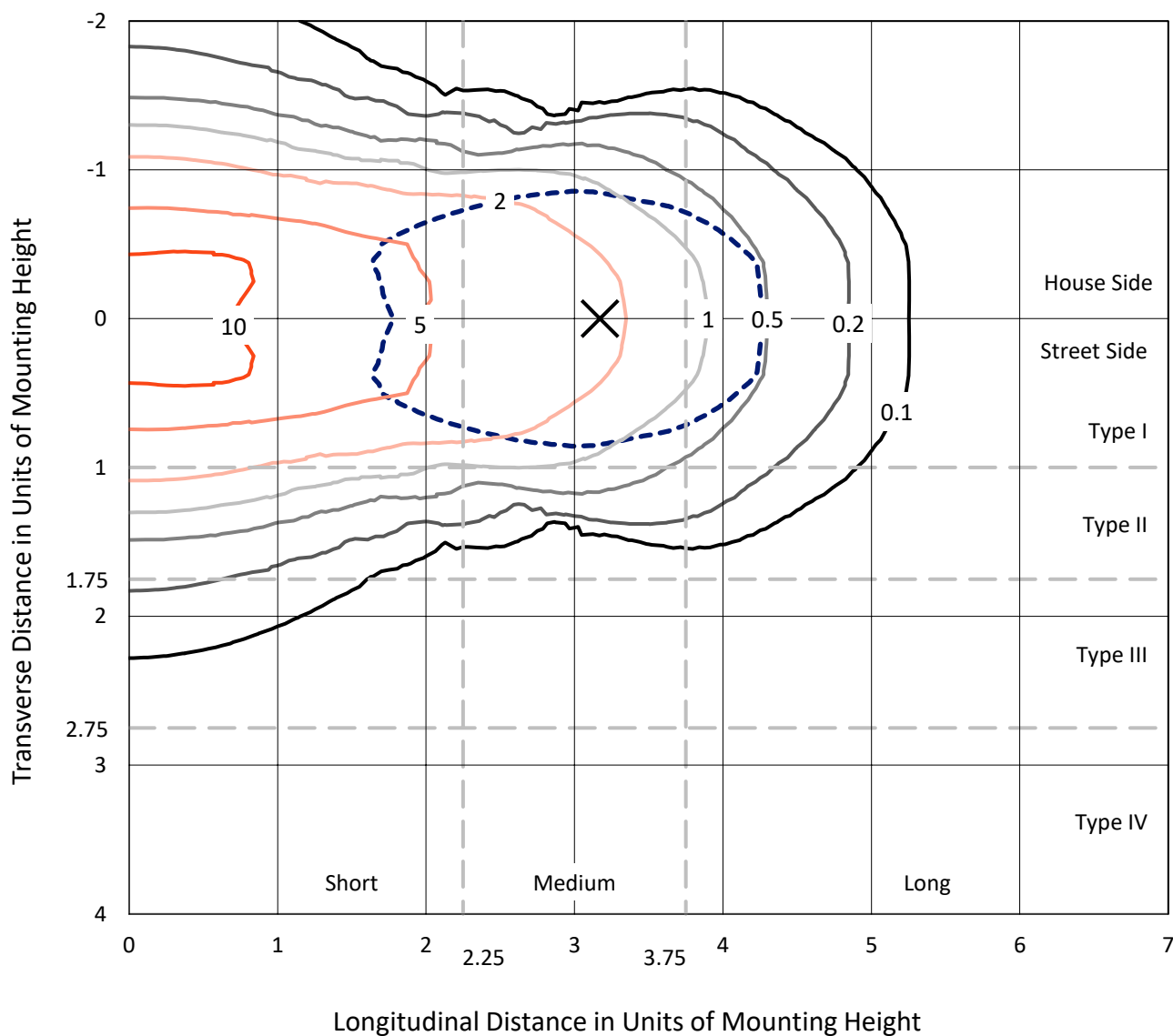
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

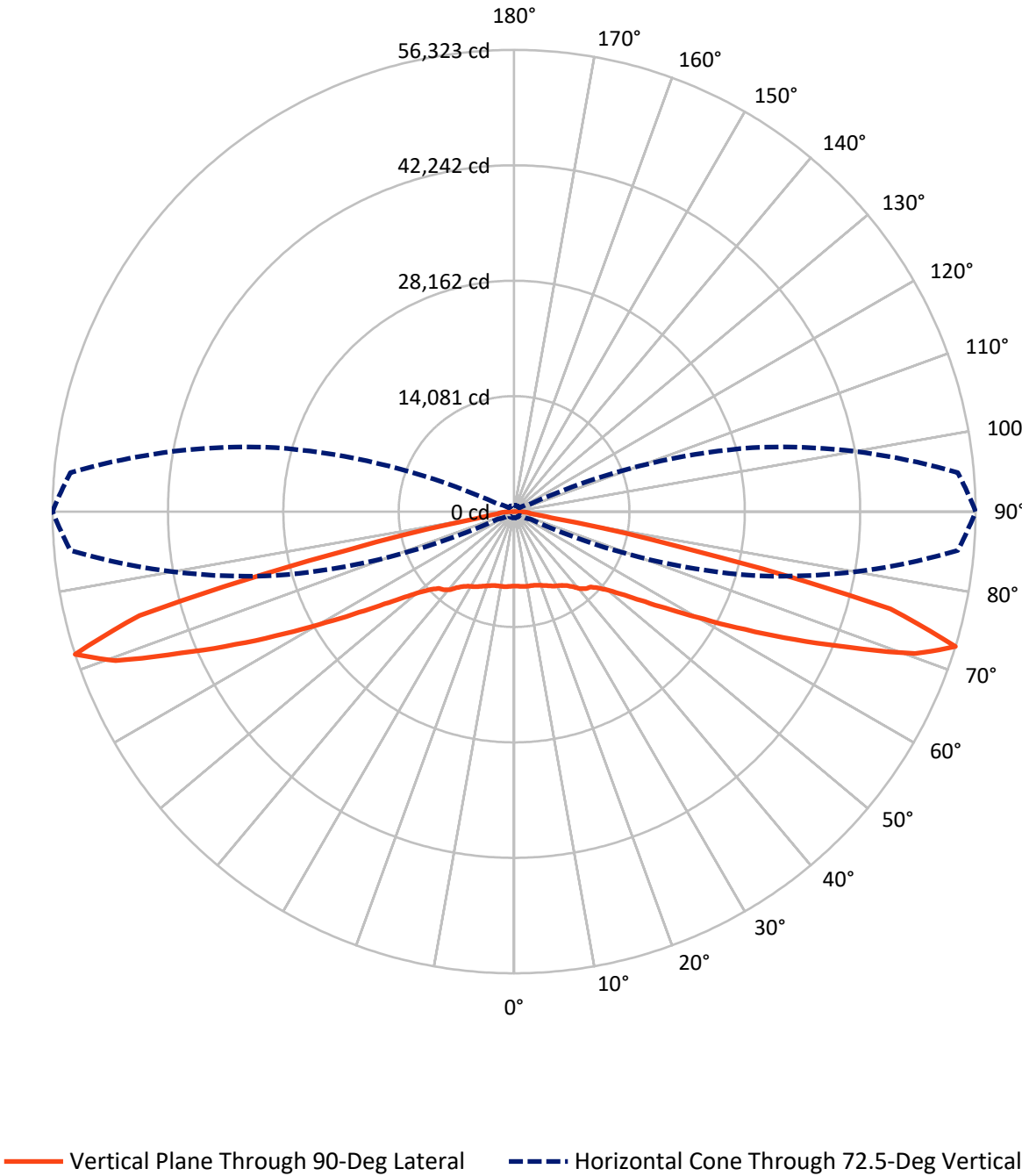


Based on 25 foot mounting height. Maximum calculated value = 14.6 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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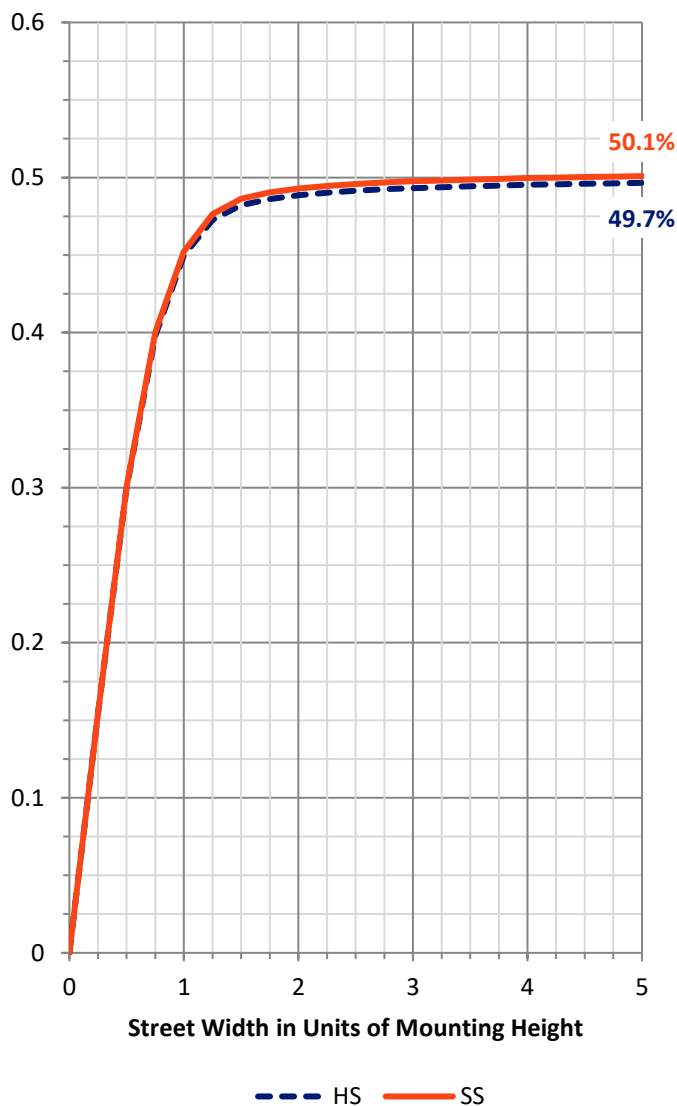
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24359.6	0.0	24359.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24359.6	0.0	24359.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	48719.3	0.0	48719.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	882.7	1.8
10°-20°	2699.0	5.5
20°-30°	4500.3	9.2
30°-40°	6189.3	12.7
40°-50°	7558.9	15.5
50°-60°	8742.6	17.9
60°-70°	10424.2	21.4
70°-80°	7275.4	14.9
80°-90°	446.9	0.9
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°	48719.3	100.0
0°-180°	48719.3	100.0

Coefficient of Utilization



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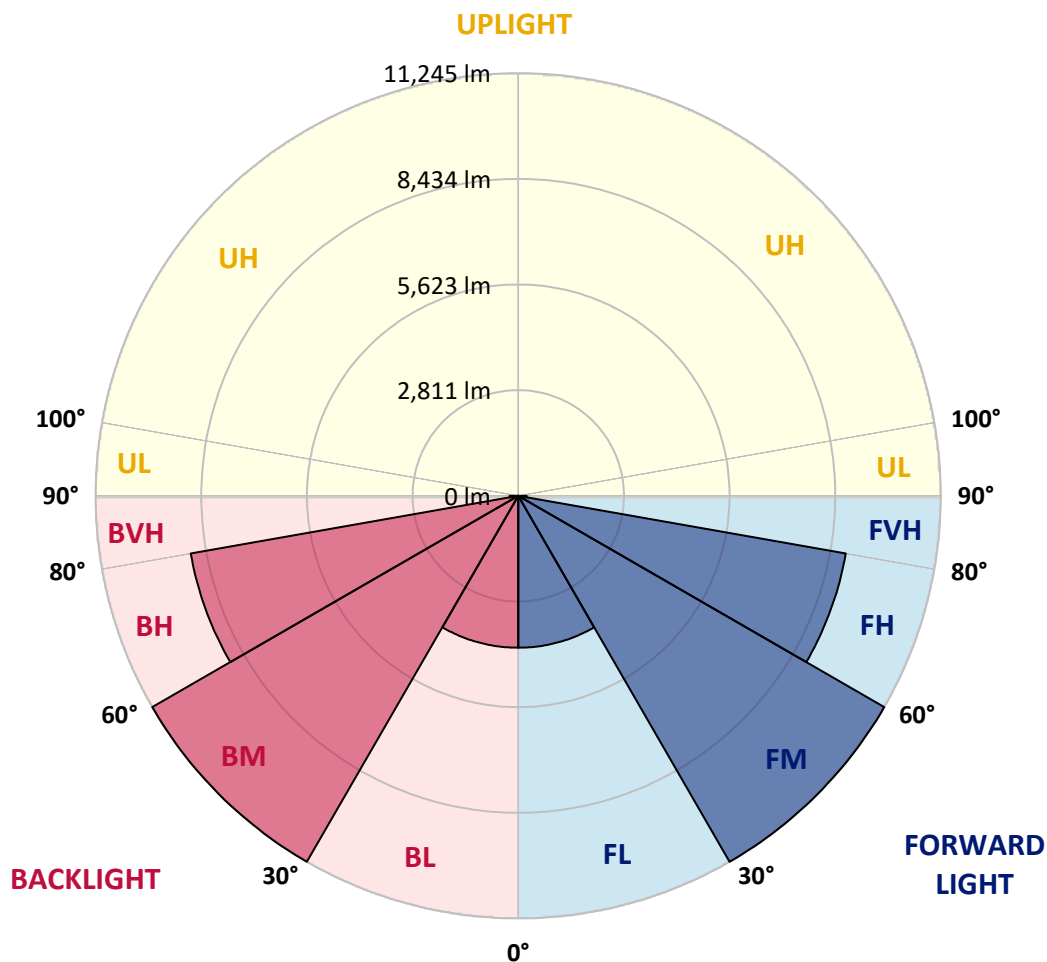
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4041.0	8.3			
FM	(30°-60°)	11245.4	23.1			
FH	(60°-80°)	8849.8	18.2			G4/12000
FVH	(80°-90°)	223.4	0.5			G2/225
BL	(0°-30°)	4041.0	8.3	B4/5000		
BM	(30°-60°)	11245.4	23.1	B5		
BH	(60°-80°)	8849.8	18.2	B5		G5
BVH	(80°-90°)	223.4	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9103.7	9103.7	9103.7	9103.7	9103.7	9103.7	9103.7	9103.7	9103.7	9103.7	9103.7
2.5°	9111.4	9121.9	9121.9	9114.1	9132.2	9116.7	9116.7	9108.9	9116.7	9108.9	9108.9
5°	9158.1	9171.0	9176.2	9173.6	9196.9	9184.0	9184.0	9173.6	9176.2	9168.4	9168.4
7.5°	9246.1	9264.3	9274.6	9287.5	9321.2	9305.7	9295.3	9264.3	9251.3	9230.5	9230.5
10°	9274.6	9295.3	9328.9	9396.3	9474.0	9476.5	9445.5	9367.8	9308.2	9261.7	9253.9
12.5°	9186.6	9215.1	9285.0	9422.2	9595.6	9665.5	9616.3	9486.9	9370.4	9287.5	9274.6
15°	9075.2	9106.3	9212.5	9419.5	9675.9	9839.1	9833.8	9663.0	9476.5	9347.1	9326.4
17.5°	8901.7	8932.8	9085.6	9375.6	9738.1	10007.4	10079.8	9903.8	9642.3	9468.7	9440.4
20°	8588.5	8617.0	8829.2	9235.8	9758.8	10186.0	10375.0	10219.7	9893.4	9657.8	9613.8
22.5°	8182.0	8225.9	8474.5	8995.0	9709.6	10372.4	10711.7	10605.5	10186.0	9859.8	9800.2
25°	7746.9	7793.6	8083.6	8699.8	9582.7	10507.1	11110.4	11043.0	10517.4	10110.9	10028.1
27.5°	7371.5	7420.7	7736.6	8407.3	9385.9	10558.8	11503.9	11537.6	10918.7	10388.0	10299.9
30°	7076.4	7122.9	7459.5	8171.6	9132.2	10507.1	11848.3	12081.4	11327.9	10628.7	10501.8
32.5°	6752.7	6812.3	7167.0	7884.2	8831.8	10382.7	12148.6	12669.1	11801.6	10887.7	10727.1
35°	6343.6	6397.9	6770.8	7490.6	8438.3	10183.4	12399.8	13321.5	12480.1	11281.3	11102.6
37.5°	5846.5	5898.3	6268.5	6998.7	8047.3	9903.8	12591.4	14056.8	13287.9	11848.3	11610.1
40°	5346.7	5395.9	5742.9	6449.7	7578.6	9546.4	12658.7	14776.7	14214.8	12627.7	12373.9
42.5°	4888.4	4932.5	5251.0	5908.6	7053.0	9090.7	12570.7	15403.3	15046.0	13171.4	12845.1
45°	4466.4	4505.3	4787.5	5401.1	6506.7	8536.7	12306.6	16076.5	16035.1	13559.7	13119.6
47.5°	3984.8	4023.6	4316.3	4909.1	5960.4	7886.8	11858.6	16739.4	17409.9	14440.1	13932.6
50°	3397.1	3430.7	3731.1	4342.1	5393.3	7195.5	11237.3	17259.8	19144.7	15773.5	15136.6
52.5°	2700.6	2736.9	3029.4	3640.5	4720.1	6452.4	10419.0	17598.9	21148.8	17720.6	16936.1
55°	2009.2	2035.1	2288.8	2837.8	3886.4	5605.6	9393.7	17694.8	23422.1	20382.3	19401.1
57.5°	1457.8	1473.2	1636.4	2045.5	2946.6	4546.7	8148.2	17446.2	26127.9	23795.0	22559.9
60°	1180.7	1185.8	1235.0	1416.3	2048.1	3350.4	6643.9	16591.8	29064.1	28194.1	26637.9
62.5°	1071.9	1071.9	1084.9	1134.1	1385.2	2211.2	4823.8	14820.7	32212.6	33753.1	31668.8
65°	996.8	996.8	1002.0	1025.3	1092.6	1408.6	3045.0	11936.3	34866.5	40265.0	37629.2
67.5°	929.6	932.1	929.6	937.3	976.1	1040.9	1765.9	8244.1	36295.8	47012.5	44166.9
70°	859.7	864.8	851.9	851.9	882.9	885.5	1105.6	4520.8	35109.8	52667.4	51919.1
72.5°	776.7	784.5	763.8	758.6	782.0	771.6	831.2	2169.7	30143.7	54355.5	56323.3
75°	704.3	714.6	668.0	655.1	655.1	647.3	675.8	1113.4	19564.2	44340.5	47426.9
77.5°	639.5	660.2	585.2	543.8	533.4	510.0	551.6	681.0	8557.4	20817.3	20385.0
80°	528.2	556.7	481.5	432.4	414.3	388.4	435.0	476.4	2545.2	4834.1	4629.5
82.5°	393.6	406.5	341.7	308.1	292.5	274.5	326.3	331.4	828.5	1711.4	1934.2
85°	251.1	256.4	209.7	181.2	173.4	165.7	207.2	181.2	315.9	1258.4	1828.0
87.5°	88.0	101.0	80.3	72.5	77.7	64.8	95.8	54.3	88.0	888.1	1100.4
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)