

Measurement report

Narva Linna Jooks

1 mile, 1609 m

GENERAL INFORMATION

Name of event: Narva Linna Jooks

City/Town: Narva

Country: Estonia

Advertised race distance: 1 mile, 1609 m

Race date: 28.06.2025

Race director: Vladimir Vsivtsev

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Name of measurement team leader: Karen Aau, B grade measurer

Phone: +37253416303

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Type of terrain (Flat/Undulating/Hilly): hilly

Type of course (Loop/Lap/Point to Point/Out & Back): Out & Back

Race surface: asphalt

Separation: 0%

Altitude:

Start – 18,5 m, Finish 18,5 m

Highest point – 25 m, Lowest point – 18 m

Difference in elevation highest > lowest point – 7 m

Section of road available: exceptions are shown on start/finish scetch

DETAIL OF THE CALIBRATION COURSE

Date: 08.04.2019

Location of calibration course: Tallinna mnt light traffic road, Narva, Estonia

Measure method: steel taped

Number of measurements: 2

Markers: nails

Start time: 10:30

Finish time: 11:30

Temperature: *Start* +11°C, *Finish* +11°C, *Average* +11 °C

MEASUREMENTS AND CALCULATIONS:

1 First measurement.

8	x	49,9 m	+	0,8 m	=	400 m
# tape lengths		distance per tape length		partial tape length		Measured distance

2 Second measurement.

8	x	49,9 m	+	0,783 m	=	399,983 m
# tape lengths		distance per tape length		partial tape length		Measured distance

3 Average raw (uncorrected) measurement of course: 399,9915 m

4 Temperature correction.

$$\text{Correction factor} = 1.0000000 + (.0000116 \times [11 - 20]) = 0,9998956$$

5 Multiply the temperature correction factor by the average raw measurement of the course

0,9998956	x	399,9915	=	399,949741 m
correction factor		avg. raw measurement		corrected measurement

6 Final (adjusted) length of calibration course: 400 m

$$399,95 \text{ m} + 0,05 \text{ m} = 400\text{m}$$

Summary: To get 400 m length calibration course, added 5 cm with steel tape.

BICYCLE CALIBRATION DATA SHEET

PRE-CALIBRATION:

Day: 09.05.2025

Time: 12.50

Temperature: +7°C

Start count	Finish count	Difference
347500	351888	4388
351888	356276	4388
356276	360664	4388
360664	365052	4388

Pre-measurement average count = $(4388+4388+4388+4388) / 4 = 4388$

Counts per km = $4388 \times 1000 / 400 = 10970$

Working Constant = $10970 \times 1,001 / 1000 = 10,98097 \text{ c/m}$

POST-CALIBRATION:

Day: 09.05.2025

Time: 17.05

Temperature: +9°C

Start count	Finish count	Difference
525686	530071	4385
530071	534457	4386
534457	538842	4385
538842	543228	4386

Post-measurement average count = $(4385+4386+4385+4386) / 4 = 4385,5$

Counts per km = $4385,5 \times 1000 / 400 = 10963,75$

Working Constant = $10963,75 \times 1,001 / 1000 = 10,97471375 \text{ c/m}$

CONSTANT FOR THE DAY = $(10,98097 + 10,97471375) / 2 = 10,97784187 \text{ c/m}$

COURSE MEASUREMENT DATA SHEET

reading	counts	distance	adj.dist	location
<i>Measured in running direction, 09.05.2025, c=10,97784187 c/m</i>				
<i>--- adjustment here with steel tape adds 6,4 m ---</i>				
507340	0	0.0 m	0.0 m	START - at Äkkeküla Sport Center (detailed sketch attached)
524933	17593	1602,6 m	1609 m	FINISH - at Äkkeküla Sport Center (detailed sketch attached)

Note any adjustments made to the course after measurement:

As start and finish line is same, moved it and added 3,2m

CALIBRATION COURSE – 400 m



COURSE



START / FINISH LINE

Whole course is on asphalt, it's just old satellite photo

