

# Norwegian Athletic Federation

Ullevaal stadion  
Sognsveien 75 J, 0840 Oslo, NORWAY  
E-mail: [friidrett@friidrett.no](mailto:friidrett@friidrett.no)  
Phone: +47 94 83 33 26



## COURSE MEASUREMENT REPORT - REPORT FOR INTERNATIONAL CERTIFIED COURSE -

INFORMATION ABOUT EVENT AND COURSE	
<b>Event:</b> Stavanger Sunset Marathon	
<b>Technical Organiser:</b> Spirit Friidrettsklubb	
<b>City/Place:</b> Sola, Rogaland	
<b>Date of Arrangement:</b> 28 June 2025	
<b>Date and time for measurement:</b> 12 March 2025	
<b>Measured distance(s):</b> 42 km Marathon	
<b>Length of calibration course:</b> 300 m	
<b>Terrain:</b> Flat <input type="checkbox"/> Slightly hilly <input checked="" type="checkbox"/> Hilly <input type="checkbox"/> Terrain <input type="checkbox"/>	
<b>Type of course route:</b> Closed loop <input checked="" type="checkbox"/> Back and forth <input type="checkbox"/> A to B <input type="checkbox"/> Other <input type="checkbox"/>	
<b>Race surface:</b> Asphalt	
<b>Elevation Start - Finish:</b> 0 m	
<b>Description of start:</b> Cycle path Solastrand – cross Nordsjøvegen/Vaulabergveien	
<b>Description of finish:</b> Cycle path Solastrand – 40 m before finish line	
<b>Distance, in a straight line, between start &amp; finish:</b> 40 m	
<b>Start and Finish marked:</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
<b>Km-markings:</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
<b>Measurement direction:</b> Running direction <input checked="" type="checkbox"/> Opposite running direction <input type="checkbox"/>	
<b>National record can be approved:</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

CONTACT INFORMATION		
	<b>Measured by:</b>	<b>Organizer:</b>
<b>Contact person:</b>	Erling Hiorth	Einar Søndeland
<b>Phone:</b>	+47 91337338	+47 92403587
<b>Email:</b>	Erling.hiorth@gmail.com	Einar.sondeland@spirit-friidrettsklubb.com

It is hereby confirmed that the course has been measured by an A- or B certified international certified course measurer from Norwegian Athletics. The course is measured in accordance with AIMS and Norwegian athletics regulations, and the distance(s) has the minimum reported length(s). The survey is valid for 5 years, except if the route is changed.

15 March 2025 *Erling Hiorth*

Date Signature by Course measurer Date Signature by AIMS

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## CALIBRATION COURSE AND PROCEDURE - 15.Dec.2023 – 2 pm

Length of measuring tape (steel measuring tape only)	50 m
Length of calibration course 1st measurement	300,00 m
Length of calibration course 2nd measurement	299,975 m
Possible 3rd measure (max. 1 cm diff per 100m 1 <sup>st</sup> and 2 <sup>nd</sup> )	No
Average of measurements before adjustments	299,988 m
Temperature (road or measuring tape)	7 degree
Adjustment cf. D-(D*(1+(temp-20)*0,0000115))	- 0,045 m temp
Measured calibration distance after adjustment	300,013 m (+7 cm on ground)
Distance from start/finish to calibration distance	150 m

## CALIBRATION INFORMATION - (max 8 counts difference of 1000 m between 4 measurements, ie 2 counts of 300m and 3 count of 400m)

	Pre-measurement:			Post measurement:		
	Date and Time: 12 Mar – 9:30 am			Date and Time: 12 Mar–1:45 pm		
	Start	End	Diff.	Start	End	Diff.
1st measure	9439	12880	3441	26600	30041	3441
2nd measure	12880	16321	3441	30041	33480	3439
3rd measure	16321	19763	3442	33480	36920	3440
4th measure	19763	23204	3441	36920	40360	3440

	Pre measurement	Post measurement	
Average (1+2+3+4) / 4	3441,25	3440,00	Today's constant. Either highest or average of before and after measurement
Constant 1 km	11470,350	11466,183	
Addn. +1‰	11,470	11,466	
Measurement constant (rounded)	11481,820	11477,649	11480

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<b>MEASUREMENT PROCEDURE</b>		
<b>Measured Distance</b>	<b>Counter</b>	<b>Description of place</b>
	39300	Start
42194,90	523782	Finish – calculated based on pre-calibration
7,36	523782	Adjusted for average pre+post calibration
<b>42.202,26 m</b>		<b>Total measured without adjustments</b>
0		<b>Total measured adjustments</b>
<b>42.202,26 m</b>		<b>Total measured course</b>

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## CONCLUSION OF MEASUREMENT

1. General information about race course and start/finish
  - Start and finish close to Sola Strand Hotel
  - Both start and finish at cycle path, 40 m apart
  - 1st round from start to 31,3 km, then 2<sup>nd</sup> round 31,3 to finish
2. Measurement of calibration course
  - 150 m in straight line from finish, straight/flat cycle path on asphalt
  - Measured in accordance with procedure, 2 persons
  - Marked at both ends, adjusted for temperature and adjusted +7 cm on ground
3. Calibration of bicycle
  - Calibrated in accordance with procedure, 4 measures, deviation 1 count
4. Measurement of the course
  - From start to finish continuous, closed loop measured once
5. Post calibration of bicycle
  - Same procedure, 4 measures, deviation 2 counts
6. Course adjustments
  - No adjustment required. Post calibration increased the overall length by 7 m.
7. Overall length of the course
  - The course is not shorter than marathon
8. Additional info
  - The course is on walking- cycle path all the way
  - There are 4 road crossing as shown on attached pictures
  - The organizer will set up cones/fences on all course changes

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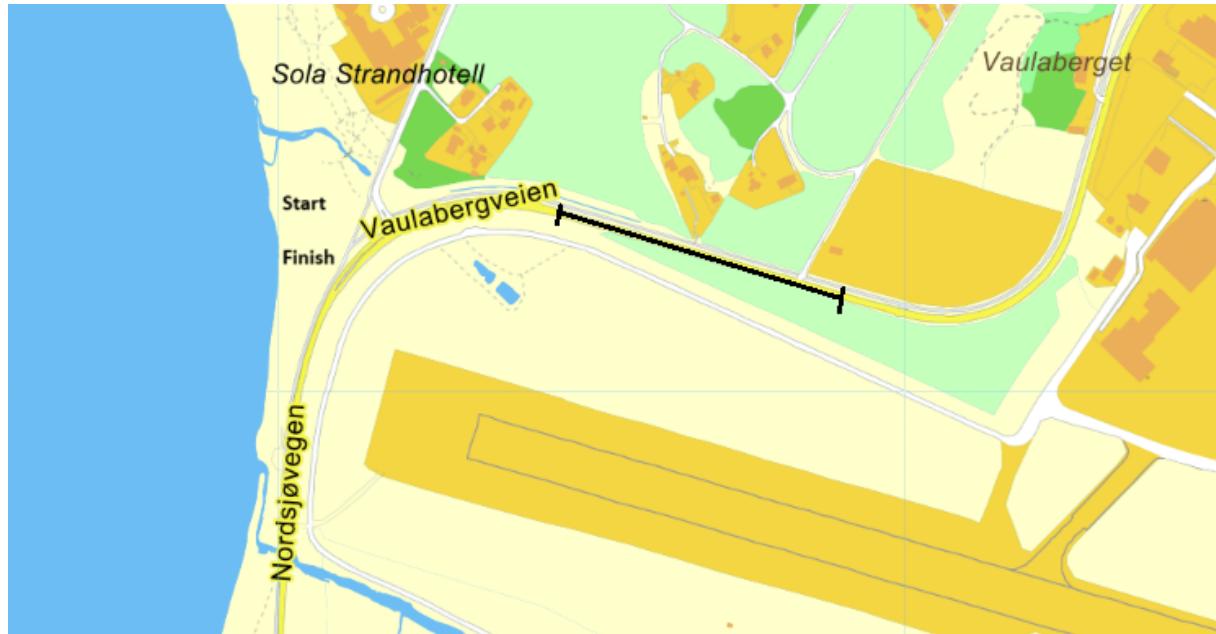
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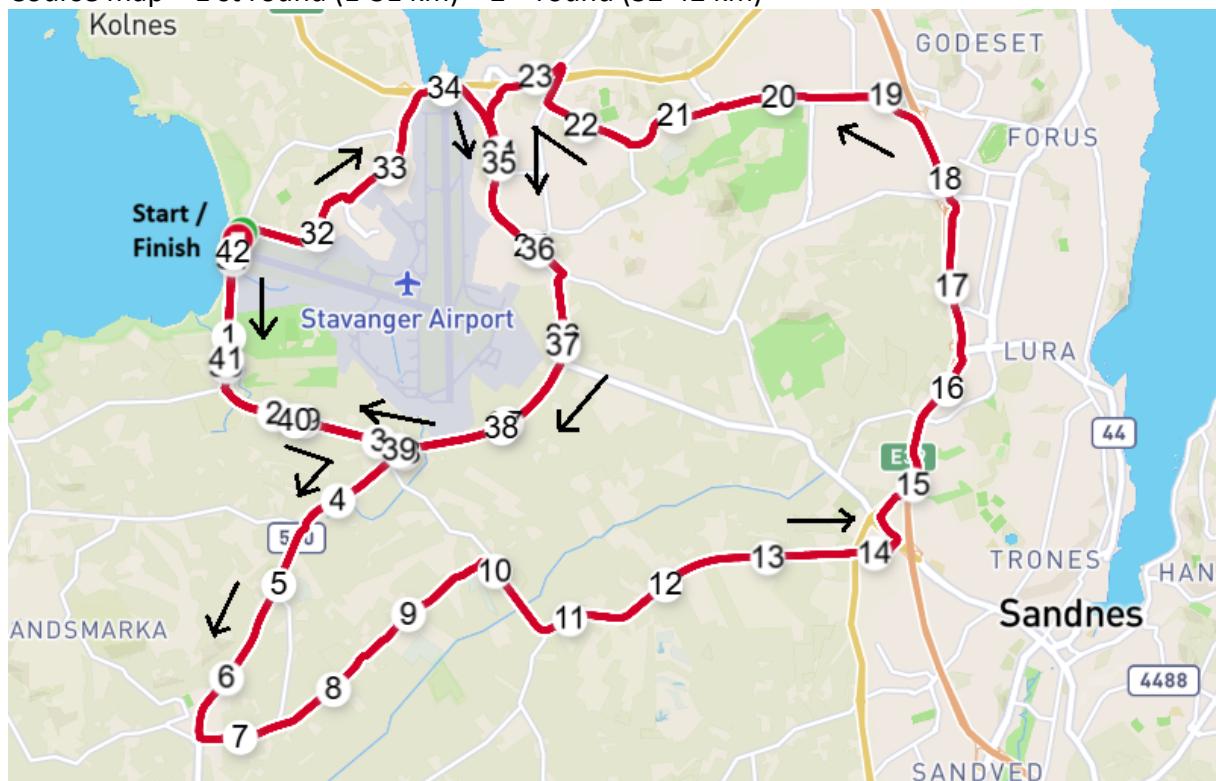


## CALIBRATION COURSE MAP

Calibration course – 150 m from start



Course map – 1 st round (1-31 km) – 2<sup>nd</sup> round (32-42 km)



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## COURSE MAP & DESCRIPTION

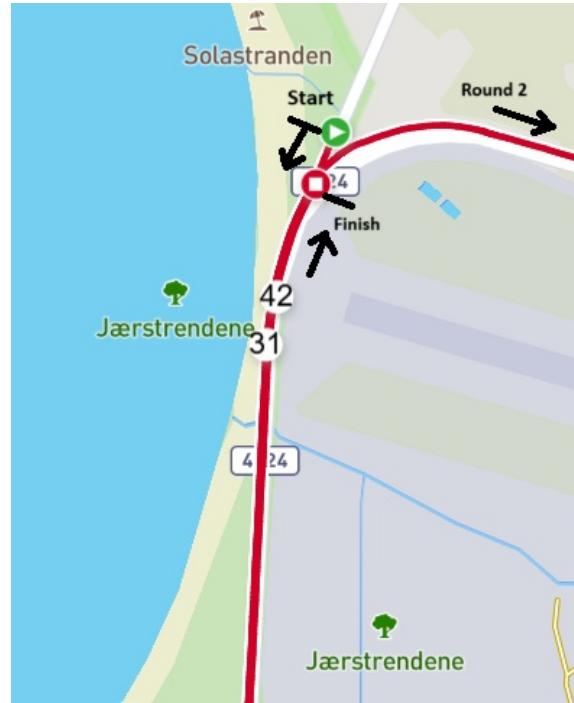
Start – at traffic sign – direction southwards



Finish – at light pole – direction north



Start / Finish



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Road crossing at pedestrian crossing



Course to follow pedestrian path on right side



Road crossing 45 degree from start pedestrian on right side to road cross 20 m up on left



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Pedestrian crossing on left to be used



Crossing from left to right pedestrian 45 degree corner to corner



Crossing from opposite side to this side through tunnel (after 35 km)

