Ullevaal stadion Sognsveien 75 J, 0840 Oslo, NORWAY

E-mail: <a href="mailto:friidrett.no">friidrett@friidrett.no</a>
Phone: +47 94 83 33 26

Solastranden – 10 km Sola, Norway 13.January 2024

# **COURSE MEASUREMENT REPORT**

- REPORT FOR INTERNATIONAL CERTIFIED COURSE -

- KEPOKI TOK INTEKNATIONAL CEKTILIED COOKSE					
INFORMATION AE	BOUT EVENT AND COURSE				
Event: Solastrand	Event: Solastranden 10 km				
Technical Organis	ser: Spirit Friidrettsklubb				
City/Place: Sola,	Norway				
Date of Arrangem	nent: 13.January 2024				
Date and time for	r measurement: 27.December 2	023 - 11 am			
Measured distance	ce(s): 5 km – 10 km – 21 km – <b>Th</b>	iis report is for 10 km			
Length of calibrat	tion course: 300 m				
Type of course route: Closed loop  Back and forth  A to B Other  Race surface: Asphalt  Elevation Start - Finish: 0  Description of start: Sola Strandhotel – Nordsjøvegen, outside hotel  Description of finish: Sola Strandhotel – Outside main entrance  Distance, in a straight line, between start & finish: 80 m  Start and Finish marked: Yes  No    Km-markings: Yes  No    Measurement direction: Running direction  Opposite running direction    National record can be approved: Yes  No					
CONTACT INFORM	MATION				
	Measured by:	Organizer:			
Contact person:	Erling Hiorth	Einar Søndeland			
Phone:	+47 91337338	+47 92403587			
Email:	Erling.hiorth@gmail.com	Einar.sondeland@spirit-friidrett.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.					
29.December 2023					
Date Sigr	nature by Course measurer	Date Signature by AIMS			

Ullevaal stadion Sognsveien 75 J, 0840 Oslo, NORWAY

E-mail: <a href="mailto:friidrett.no">friidrett@friidrett.no</a>
Phone: +47 94 83 33 26

Solastranden – 10 km Sola, Norway 13.January 2024

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 1st and 2nd)	No	
Average of measurements before adjustments	299,988 m	
Temperature (road or measuring tape)	7 degree	
<b>Adjustment cf.</b> 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	300 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: 27.Dec – 10 am			Date and Time: 27.Dec – 2 pm		
	Start	End	Diff.	Start	End	Diff.
1st measure	47400	50863	3463	33800	37262	3462
2nd measure	50863	54328	3465	37262	40725	3463
3rd measure	54328	57791	3463	40725	44187	3462
4th measure	57791	61256	3465	44187	47650	3463

	Pre	Post	
	measurement	measurement	
Average (1+2+3+4) / 4	3464	3462,5	Today's constant. Either highest or average of before and after measurement
Constant 1 km	11546,18	11541,18	
Addn. +1‰	11,546	11,541	
Measurement constant (rounded)	11557,7	11552,7	11556

Ullevaal stadion Sognsveien 75 J, 0840 Oslo, NORWAY

E-mail: <a href="mailto:friidrett.no">friidrett@friidrett.no</a>
Phone: +47 94 83 33 26

Solastranden – 10 km Sola, Norway 13.January 2024

MEASUREMENT PROCEDURE		
Measurement constant	11556	
Measured Distance	Counter	Description of place
	43400	Pre-set start line
9.972,0 m	158636	Fixed finish line
9.972,0 m		Total measured without adjustments
+ 30 m	Steel tape	Moved starting line backwards
+ 30,0 m		Total measured adjustments
10.002,0 m		Total measured course

Ullevaal stadion Sognsveien 75 J, 0840 Oslo, NORWAY

E-mail: <a href="mailto:friidrett.no">friidrett@friidrett.no</a>
Phone: +47 94 83 33 26

Solastranden – 10 km Sola, Norway 13.January 2024

#### **CONCLUSION OF MEASUREMENT**

- 1. General information about race course and start/finish
  - Finish line for all 3 distances are in front of the hotel
  - Start line is on the road outside the hotel
  - The course consist of 3 loops and has been used over the last years
- 2. Measurement of calibration course
  - 300 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, devation 2 count ok
- 4. Measurement of the course
  - From pre-set start to finish continuous
- 5. Post calibration of bicycle
  - Same procedure, 4 measures, devation 1 count ok
- 6. Course adjustments
  - Start line moved 30 m backwards to increase the course length
- 7. Overall length of the course
  - The course is not shorter than 10.000 m
- 8. Additional info
  - The organizer will set up fences on one corner / 90 degree turn see picture
  - The race follows the street first 200 m. The rest of the course is on cycle paths.

Ullevaal stadion

Sognsveien 75 J, 0840 Oslo, NORWAY

E-mail: <a href="mailto:friidrett.no">friidrett@friidrett.no</a> Phone: +47 94 83 33 26

Solastranden – 10 km Sola, Norway 13.January 2024

#### **CALIBRATION COURSE MAP with start & finish**



Start



Finish



Ullevaal stadion

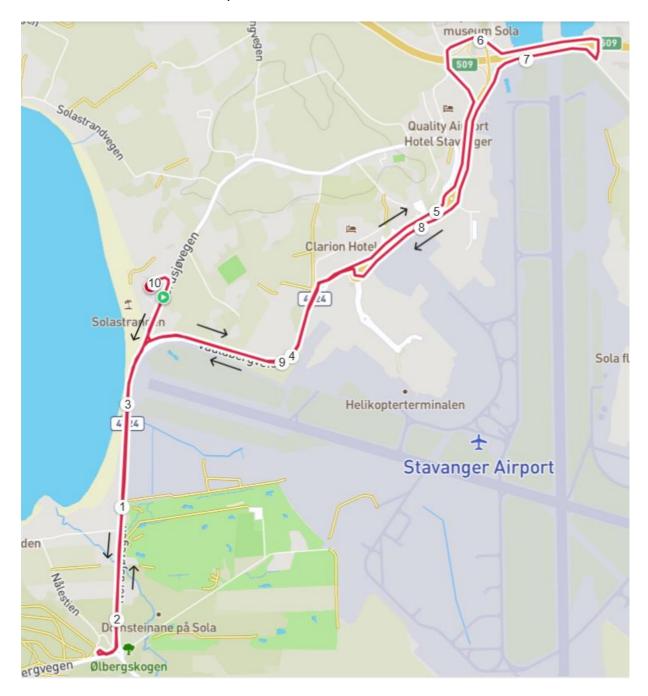
Sognsveien 75 J, 0840 Oslo, NORWAY

E-mail: <a href="mailto:friidrett.no">friidrett@friidrett.no</a>
Phone: +47 94 83 33 26

Solastranden – 10 km Sola, Norway 13.January 2024

#### **COURSE MAP & DESCRIPTION**

#### Solastranden Hotel and Sola Airport



Ullevaal stadion Sognsveien 75 J, 0840 Oslo, NORWAY

E-mail: <a href="mailto:friidrett.no">friidrett@friidrett.no</a> Phone: +47 94 83 33 26

Solastranden – 10 km Sola, Norway 13.January 2024

Corner with fences / cones at 6,7 km



Turning point @ 2 km Towards finish line – last 100 m Ølbergskogen