Ullevaal stadion Sognsveien 75 J, 0840 Oslo, NORWAY

E-mail: friidrett@friidrett.no
Phone: +47 94 83 33 26

Solastranden – 5 km Sola, Norway 13.January 2024

COURSE MEASUREMENT REPORT

- REPORT FOR INTERNATIONAL CERTIFIED COURSE -

INFORMATION ABOUT EVENT AND COURSE				
Event: Solastrano	Event: Solastranden 5 km			
Technical Organis	ser: Spirit Friidrettsklubb			
City/Place: Sola,	Norway			
Date of Arrangen	nent: 13.January 2024			
Date and time for	r measurement: 27.December 202	23 - 11 am		
Measured distant	ce(s): 5 km – 10 km – 21 km – This	report is for 5 km		
Length of calibrat	tion course: 300 m			
Race surface: Asphalt with 250 m firm gravel 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: 200 m Start and Finish marked: Yes No Measurement direction: Running direction Opposite running direction National record can be approved: Yes No				
CONTACT INFORM	//ATION			
	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 Erling Hiorth Date Signature by Course measurer Date Signature by AIMS				
Date Signature by Course measurer Date Signature by AIMS				

Ullevaal stadion Sognsveien 75 J, 0840 Oslo, NORWAY

E-mail: friidrett@friidrett.no
Phone: +47 94 83 33 26

Solastranden – 5 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	
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	300 m	

CALIBRATION INFORMATION - (max 8 counts difference of 1000 m between 4 measurements, ie 2 counts of 300m and 3 count of 400m)					nts, ie	
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: friidrett@friidrett.no
Phone: +47 94 83 33 26

Solastranden – 5 km Sola, Norway 13.January 2024

MEASUREMENT PROCEDURE			
Measurement constant	11556		
Measured Distance	Counter	Description of place	
	83500	Pre-set start line	
4.983,0 m	141084	Fixed finish line	
4.983,0 m		Total measured without adjustments	
		Adjusted 90 degree turn at 3 km	
	49929	Start before turn – inner curve	
-84,8 m	50909	Finish after turn – inner curve	
	52388	Start before turn – outside curve	
+ 86,8 m	53391	Finish after turn – outside curve	
+ 15,5 m	Steel tape	Moved starting line backwards	
+ 17,5 m		Total measured adjustments	
5.000,5 m		Total measured course	

Ullevaal stadion Sognsveien 75 J, 0840 Oslo, NORWAY

E-mail: friidrett@friidrett.no
Phone: +47 94 83 33 26

Solastranden – 5 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 2 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
 - Turn / curve at 3 km incorrect measured. Corrected to inner / outer measurement.
 - Start line moved 15,5 m backwards to increase the course length
- 7. Overall length of the course
 - The course is not shorter than 5.000 m
- 8. Additional info
 - The organizer will set up fences on two corners / 90 degree turns see pictures
 - The race follows the street first 500 m. The rest of the course is on side roads / cycle paths.

Ullevaal stadion

Sognsveien 75 J, 0840 Oslo, NORWAY

E-mail: friidrett@friidrett.no Phone: +47 94 83 33 26

Solastranden – 5 km Sola, Norway 13.January 2024

CALIBRATION COURSE MAP with start & finish



Start



Finish



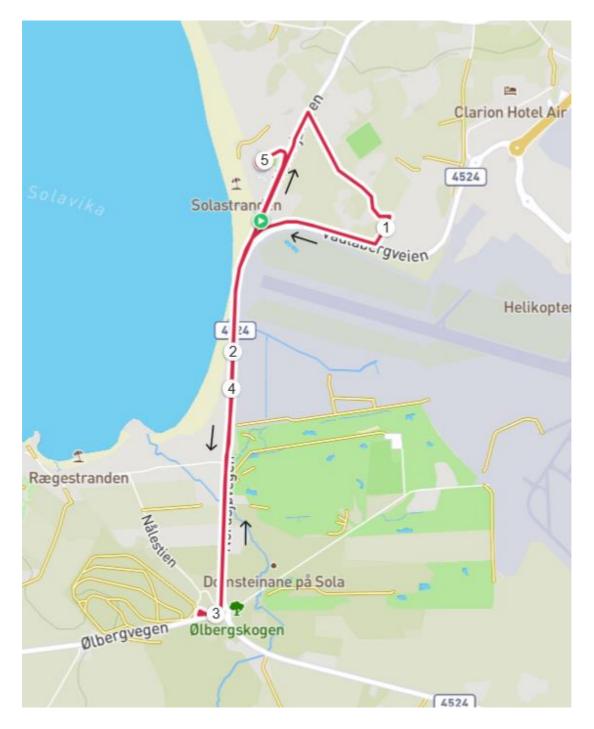
Ullevaal stadion Sognsveien 75 J, 0840 Oslo, NORWAY

E-mail: friidrett@friidrett.no
Phone: +47 94 83 33 26

Solastranden – 5 km Sola, Norway 13.January 2024

COURSE MAP & DESCRIPTION

Solastranden Hotel and Sola Airport



Ullevaal stadion Sognsveien 75 J, 0840 Oslo, NORWAY

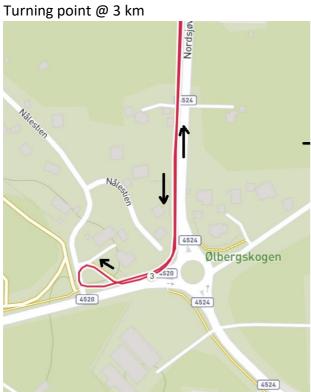
E-mail: friidrett.no Phone: +47 94 83 33 26

Solastranden – 5 km Sola, Norway 13.January 2024

Corners with fences / cones







Towards finish line - last 100 m

