

COURSE MEASUREMENT SUMMARY

EVENT DRAMMEN 10K

LOCATION DRAMMEN, NORWAY

DATE **07.04.2024**

Promoting Organisation:

Sturla Friidrett

Race director Andrè Hjorteseth

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Distance: No less than 10.000 and 5.000 m

Measured by: Jan Schjetlein

Date: 2024-03-23

Measurement method:

Jones counter mounted on bicycle wheel.

Elevation of: START: 2,5 m FINISH: 2,5 m

Distance, in straight line, between START and FINISH: 147 m

Description og Course

- | | | |
|------|-----------------------|---|
| i) | Terrain: | Nearly flat |
| ii) | Race surface: | Tarmac city streets |
| iii) | Course configuration: | Point to point with a long out-back section |

Measurement Details

- i) Entire with of road and cycle path accepted, except in the out and back section, as indicated in the map. Sidewalks not accepted. Necessary cones are marked in the map.
- ii) Shortest route to be taken at turns.

SIGNED:

Jan Schjetlein

DATE: 2024-04-04

MEASUREMENT PROCEDURE

This is a remeasurement of the course measured by Peer Jensen on (date?). I therefor knew where the finish and the turning point for the 5K would be. The Start point was fixed, decided by the race organiser.

I first measured from about 2,75 km to the finish in running direction. I took notes at a suitable reference for the 5K turn on the way out and on the way back.

From about 0.75 km to about 2,75 km, the course is against the traffic on a four-lane freeway (Bjørnsterne Bjørnsons gt). I therefor measured the first 2,75 km in opposite of running direction.

The turn for the 10K is a roundabout. The turn for 5K is a half circle of cones with $r=1,5$ m,

Calibrations

On 400m steel-taped calibration course on cycle path along Husebysletta.

Pre-measurement, 23:40, 22.03.2024, T=3 °C			Pre-measurement, 02:15, 23.03.2023, T=3 °C		
start	end	reading	start	end	reading
53000	57938	4938	03000	7937,5	4937,5
57938	62876	4938	7937,5	12876	4938,5
62876	67816,5	4940,5	12876	17815	4939
67816,5	72756,5	4940	17815	22753,5	4938,5
Average	4939,125	x 1,001/400	Average	4938,375	x 1,001/400
Working constant =		12,3601603	Finish constant =		12,358283

$$\text{Constant of the day} = (12,3601603 + 12,358283) / 2 = \mathbf{12,3592219}$$

10K

Reading	counts	distance	adj. Dist.	location
c=	12,35922188			
<i>measured in opposite of running direction</i>				
100176	0	0,0		START, Schwartz gt - align with near edge of 2nd manhole cover from Drammenshallen
66000	34176	2765,2		Big traffic info sign on L after roundabout
<i>measured in running direction</i>				
76000	34176	2765,2		Big traffic info sign on L after roundabout
79932	38108	3083,4		Turn 5K ref, level with E wall on Nedre Eiker v 1
141732	99908	8083,7		Turn 5K ref, level with E wall on Nedre Eiker v 1
145625	103801	8398,7		Big traffic info sign on R before roundabout
165407	123583	9999,3		sign "pedestrian and cycle path" after Hermantorffs gt
Adjust: Add 0,7 m				
165407	123583	9999,3	10 000,0	FINISH, 0,7m after sign "pedestrian and cycle path"

5K

Reading	counts	distance	adj. Dist.	location
c=	12,35922188			
<i>measured in opposite of running direction</i>				
100176	0	0,0		START, Schwartz gt - align with near edge of 2nd manhole cover from Drammenshallen
66000	34176	2765,2		Big traffic info sign on L after roundabout
<i>measured in running direction</i>				
76000	34176	2765,2		Big traffic info sign on R before roundabout
79932	38108	3083,4		Turn 5K ref, level with E wall on Nedre Eiker v 1
Adjust: Add 5,7m around the turn and retract by 5,3m (overall add 0,4m)				
141732	38108	3083,4	3083,8	Turn 5K ref, level with E wall on Nedre Eiker v 1
145625	42001	3398,4	3398,8	Big traffic info sign on R before roundabout
165407	61783	4998,9	4999,3	sign "pedestrian and cycle path" after Hermantorffs gt
Adjust: Add 0,7 m				
165407	61783	4998,9	5 000,0	FINISH, 0,7m after sign "pedestrian and cycle path"