Measurement Methodology

1 1. Setup

One board (stationary) is placed at the **center of a circle**.
The second board (movable) is placed at specific points along the circle, spaced every **45 degrees**.
Both boards are positioned **at the same level of height** and oriented vertically to each other.

2 2. Measurement Points

The movable board is positioned at **three distances** from the stationary board:

- 100 cm
- 150 cm
- 200 cm

3. Board Orientation

Both boards remain **vertically oriented** to each other.
Measurements are performed with the boards aligned at the same height.

3 4. Measurement Process

At each position (distance and angle combination):

1. **8 Measurements** are taken:
   - The movable board starts in the **same orientation** as the stationary board.
   - After each measurement, the movable board is rotated **45 degrees clockwise**.
   - This process continues for 8 rotations until a **full 360-degree rotation** is completed.
2. At each position, **data is collected for 1 minute** to ensure consistency and equal samples.

4 5. Additional Rotation

After each 45° rotation, the movable board is also rotated along its **longer edge**.
This ensures data is collected for various board orientations.

5 6. Summary

Measurements are taken at:

- **3 distances**: 100 cm, 150 cm, 200 cm.
- **8 angles**: 0°, 45°, 90°, . . . , 315°.

At each angle, the movable board is **additionally rotated** along its longer edge.
Each position is measured for **1 minute**.

6 Visualization

The diagram illustrates:

1. The positions of the stationary and movable boards.
2. The circular placement of the movable board at **8 angles**.
3. The additional rotation of the movable board along its **longer edge** at each point.

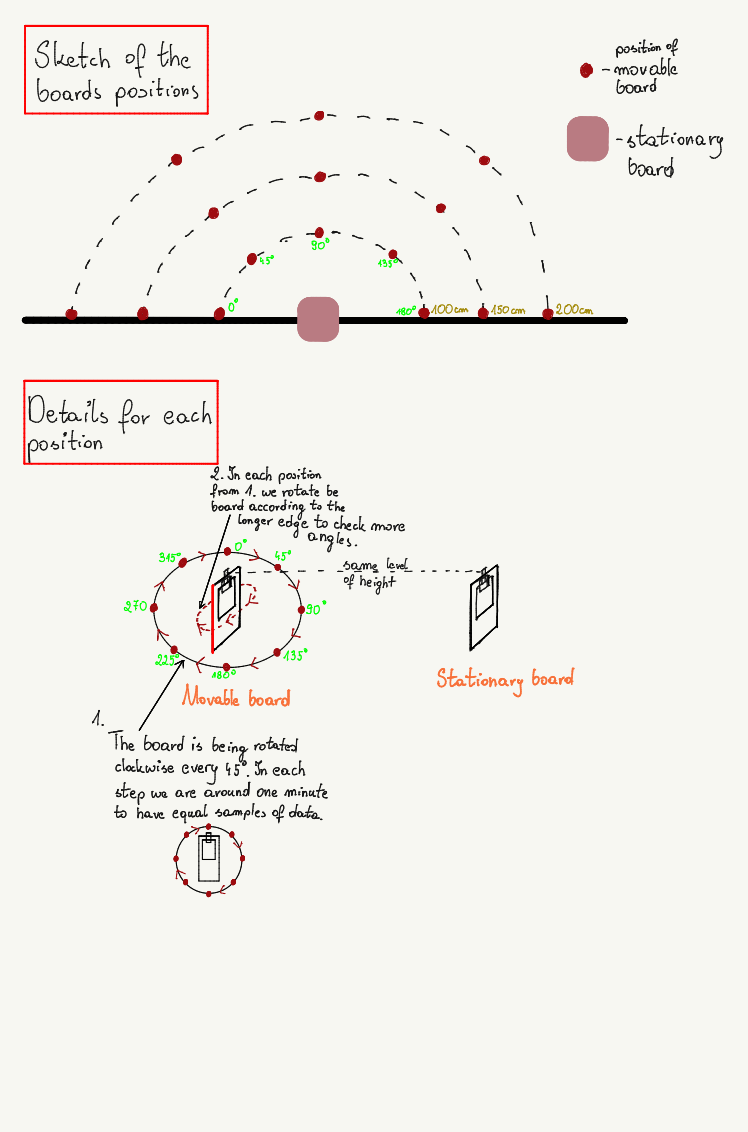

Figure 1: Measurement Setup