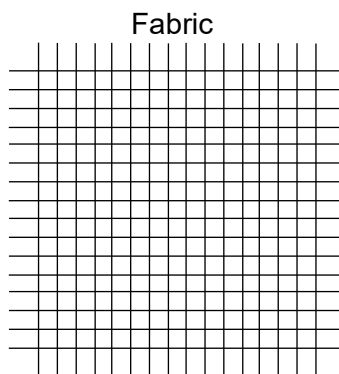
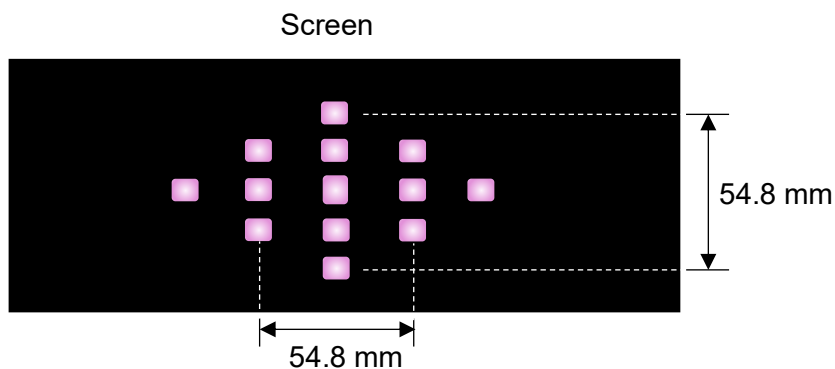


- 15 A fabric consists of closely-spaced horizontal and vertical threads as shown.



When a laser with a wavelength of 685 nm is incident on the fabric, a diffraction pattern is observed on a screen placed at a distance of 2.00 m away, as shown below.



The separation between the **horizontal** threads of the fabric is

- A $2.50 \times 10^{-5} \text{ m}$
- B $5.00 \times 10^{-5} \text{ m}$
- C $1.00 \times 10^{-4} \text{ m}$
- D $9.48 \times 10^{-4} \text{ m}$

