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A monochromatic light of wavelength 5.2 × 10⁻⁷ m is incident normally on a diffraction grating, the third order lines are formed at an angle of 51.3° to the normal of the grating.

What is the number of lines per millimetre of the grating?

A

2.0×10^{-6}

B

5.0×10^{2}

C

5.0×10^{5}

D

2.0×10^{6}