

**26** Light of frequency  $6.7 \times 10^{14}$  Hz in a vacuum is incident normally on a diffraction grating that contains  $4.0 \times 10^5$  lines  $\text{m}^{-1}$ .

What is the angle between the adjacent second and third order intensity maxima?

**A**  $12^\circ$

**B**  $21^\circ$

**C**  $33^\circ$

**D**  $54^\circ$