

- 19** The two headlights of a car are located 0.77 m apart. The headlights emit light of wavelength 550 nm.

The aperture of a human eye is about 1.8 mm in diameter.

What is the maximum distance away from the two headlights whereby these can still be resolved by the human eye?

**A** 23 m

**B** 41 m

**C** 270 m

**D** 2500 m