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The International Space Station (ISS) orbits the Earth at an altitude of 400 km. Two bright lights on the surface of Earth are separated by a distance d .

Assume the pupil of a human eye has a diameter of 4.0 mm.

What is the minimum value of d in order for an astronaut inside the ISS to resolve the lights with her naked eyes?

A

40 m

B

70 m

C

80 m

D

140 m