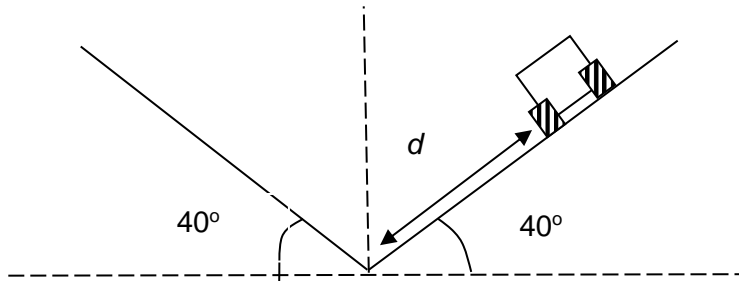


- 10** The diagram shows the cross-section of a racetrack that has the shape of an inverted cone. On this surface the cars race in circles that are parallel to the ground.

At a speed of  $34 \text{ m s}^{-1}$ , what should the value of the distance  $d$  be if the driver wishes to stay on a circular path without depending on friction?



**A** 95 m

**B** 183 m

**C** 230 m

**D** 304 m