BANKED CURVES PROBLEM

1. On a banked race track, the smallest circular path on which cars can move has a radius of 112 m, while the largest has a radius of 165 m, as the drawing below illustrates. The height of the outer wall is 18 m. Find the smallest and largest speed at which cars can move on this track, if the coefficient of friction between the tires and the track is 0.900.

