103. The problem asks us to assume $v_{\rm com}$ and ω are constant. For consistency of units, we write

$$v_{\rm com} = (85\,{\rm mi/h}) \left(\frac{5280\,{\rm ft/mi}}{60\,{\rm min/h}}\right) = 7480~{\rm ft/min}~.$$

Thus, with $\Delta x = 60$ ft, the time of flight is $t = \Delta x/v_{\rm com} = 60/7480 = 0.00802$ min. During that time, the angular displacement of a point on the ball's surface is

$$\theta = \omega t = (1800\,\mathrm{rev/min})(0.00802\,\mathrm{min}) \approx 14~\mathrm{rev}$$
 .