

CENTENNIAL SCREAMER

Ride Facts:

Number of carriers: 20

Number of people per seat: 2

Length of ride: 1.30 minutes

Length of time between rides:
2.00 minutes

Radius: 6 to 8 m

Minimum rotational period: 4s

Maximum angle of tilt: 85°



1. Calculate the minimum speed necessary to stay in your seat at the top of the ride.
2. Calculate the frequency of the ride at full speed.
3. Measure the angle each car makes with the vertical as the wheel approaches full speed while still rotating horizontally. Is each car uniformly the same angle, regardless of its position around the wheel?
4. Calculate the circumference of the ride.
5. Determine the tangential speed of the ride.