An Application of Simpson's Rule

Problem: Suppose we want to know roughly how much water is flowing through a particular stream. Using a combination of water level (usually referred to as *stage*) and previous measurements, we collect flow data over 30 minute time intervals as shown in the table below. Use Simpson's Method to approximate the total flow (in ft^3) for the Vermillion River Near Empire, MN from 5am to 3pm on Sunday, March 9th, 2003.

