# Ping Readings by Tilt Angle

**measured pulse transit time in units of 0.8 microseconds**

Best straight line approximation for
measured Ping values:  Ping = ( -0.8 * tilt error) + 525
I.e. Ping reading decreases by 0.8 for each degree of forward tilt

linear response from -7.5 to + 7.5 degrees



test setup using Parallax
serial LCD

← Leaning backwards    Leaning forwards →

Legend:
- ◆ Ping Reading
- ■ Ping equation

Y-axis: 0, 100, 200, 300, 400, 500, 600, 700, 800

X-axis: -20, -17.5, -15, -12.5, -10, -7.5, -5, -2.5, 0, 2.5, 5, 7.5, 10, 12.5, 15, 17.5, 20