STEEL TAPING DATA SHEET
For measuring a calibration course

Name of calibration course: ____________________________________________
City/town and State: __________________________________________________
Date: __________________________
Start time: _________________  Finish time: _________________________
Pavement temperature: Start ______ Finish ______  Average ________
(thermometer shaded from direct sun)

Measurements and calculations:
1  First measurement. This establishes tentative start and finish marks which should
   not be changed until the final adjustment on line 6 below.
   _______ x _________ + _________    =    ______________
   # tape   distance per partial tape measured
   lengths  tape length length   distance

2  Second measurement. This checks the distance between the SAME tentative
   start and finish points marked in the first measurement, but use new intermediate
   taping points.
   _______ x _________ + _________    =    ______________
   # tape   distance per partial tape measured
   lengths  tape length length   distance

3  Average raw (uncorrected) measurement of course ____________________

4  Temperature correction. Use the average pavement temperature during
   measurement. Work out answer to at least seven digits beyond the decimal
   point.

   Correction factor = 1.0000000 + (.0000116   x   [Celsius temperature – 20] )

   Correction factor = _______________________

   NOTE: For temperatures below 20C, factor is less than one
   For temperatures above 20C, factor is greater than one

5  Multiply the temperature correction factor by the average raw measurement of
   the course (line 3)

   __________________________ x __________________________ = _________________
   correction factor       avg. raw measurement    corrected measurement

6  If you wish, you may now adjust the course to obtain an even distance, such as
   one kilometre. This is not necessary as you may choose instead to use an odd-
   distance calibration course whose endpoints are pre-existing permanent objects
   in the road to guard against hazards such as repaving. If you adjusted the
   course, explain why you did it.

   Final (adjusted) length of calibration course __________________________