

To access the compass through either of these connectors requires first entering the `compass` command. This command enables a pass through to the CMOS port on J3 from serial port 1. Use this command to verify that the compass is operating properly. Terminate the command by entering Ctrl-D. When entering the compass command, verify that the output is similar to that shown in the example compass output in Figure 5-3.

```
user:4>compass
$C307.8P0.8R0.8*62 at 14:26:43.8988
$C307.8P0.9R0.9*62 at 14:26:43.9972
$C307.8P0.8R0.9*62 at 14:26:44.0890
$C307.6P0.8R0.9*6C at 14:26:44.1890
$C307.6P0.8R0.9*6C at 14:26:44.2871
```

Figure 5-3 Example Compass Output Data



NOTE For instructions on how to calibrate an Ocean Server Technology OS5000-S Solid State Tilt Compensated 3 Axis Digital Compass, refer to its users guide.

Calibrating the USBL Transducer

When replacing the USBL transducer for any transponder, the transducer calibration data file associated with the USBL transducer must be loaded onto the board set. This file is supplied as `datcal.txt` (or `<transducer serial number>.txt` for multiple files) and must be loaded using the `rx` command. This command uses the X-Modem protocol to receive the contents of a file from a PC to a named file in the transponder file system. This file is in the flash file system (ffs) of the transponder file system and is named `datcal`.

To load the contents of the transducer calibration file to `datcal`, enter:

```
rx /ffs/datcal
```

The transponder responds with:

```
rz: ready to receive /datcal
```

Next, set the communications program on the PC to send using the X-Modem protocol. Select the directory that contains the transducer calibration file, and then open the file. The contents of the file will be transferred to `datcal` in the flash file system of the transponder.