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SENSOR SERIAL NUMBER: 0344  
CALIBRATION DATE: 03-Feb-18

SBE 26 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 1.01272934e-003  
a1 = 2.41989647e-004  
a3 = 1.42946524e-007

AI = 267612.4  
XI = -8.8496

| BATH TEMP<br>(° C) | INSTRUMENT<br>OUTPUT (volts) | INST TEMP<br>(° C) | RESIDUAL<br>(° C) |
|--------------------|------------------------------|--------------------|-------------------|
| 1.0000             | -2.675                       | 1.0005             | 0.00055           |
| 4.5000             | -2.012                       | 4.4990             | -0.00105          |
| 15.0000            | 0.013                        | 15.0016            | 0.00160           |
| 18.5000            | 0.672                        | 18.4989            | -0.00108          |
| 24.0000            | 1.668                        | 24.0000            | -0.00003          |
| 29.0000            | 2.515                        | 28.9998            | -0.00020          |
| 32.5000            | 3.069                        | 32.5002            | 0.00021           |

$n = (AI / (Volts - XI)) - 15000.0$

Temperature ITS-90 (°C) =  $1 / \{ a0 + a1[\ln(n)] + a3[\ln^3(n)] \} - 273.15$

Residual (°C) = instrument temperature - bath temperature

