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SENSOR SERIAL NUMBER: 3424  
CALIBRATION DATE: 11-Dec-20

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.648252e-004  
a1 = 3.128856e-004  
a2 = -4.811985e-006  
a3 = 2.129098e-007

| BATH TEMP<br>(° C) | INSTRUMENT<br>OUTPUT (counts) | INST TEMP<br>(° C) | RESIDUAL<br>(° C) |
|--------------------|-------------------------------|--------------------|-------------------|
| 1.0000             | 838100.5                      | 1.0000             | 0.0000            |
| 4.5000             | 718948.3                      | 4.5000             | -0.0000           |
| 15.0000            | 462582.6                      | 15.0000            | 0.0000            |
| 18.5000            | 401779.9                      | 18.5000            | 0.0000            |
| 24.0000            | 323851.0                      | 23.9999            | -0.0001           |
| 29.0000            | 267789.2                      | 29.0001            | 0.0001            |
| 32.5000            | 235191.9                      | 32.5000            | -0.0000           |

n = Instrument Output (counts)

Temperature ITS-90 (°C) =  $1 / \{a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)]\} - 273.15$

Residual (°C) = instrument temperature - bath temperature

