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SENSOR SERIAL NUMBER: 0455
 CALIBRATION DATE: 24-Feb-22

SBE 45 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -4.797192e-005
 a1 = 2.929044e-004
 a2 = -3.887376e-006
 a3 = 1.900893e-007

| BATH TEMP (° C) | INSTRUMENT OUTPUT (counts) | INST TEMP (° C) | RESIDUAL (° C) |
|--------------------|-------------------------------|--------------------|-------------------|
| 1.0000 | 686193.3 | 0.9999 | -0.0001 |
| 4.4999 | 585837.3 | 4.5001 | 0.0002 |
| 15.0000 | 371775.0 | 14.9999 | -0.0001 |
| 18.5000 | 321476.9 | 18.4999 | -0.0001 |
| 24.0000 | 257355.8 | 24.0000 | 0.0000 |
| 29.0000 | 211518.9 | 29.0002 | 0.0002 |
| 32.5000 | 185002.0 | 32.4998 | -0.0002 |

n = Instrument Output (counts)

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

Residual (°C) = instrument temperature - bath temperature

