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SENSOR SERIAL NUMBER: 1810 CALIBRATION DATE: 10-Jan-25

SBE 37 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

## **COEFFICIENTS:**

a0 = -3.268489e-005 a1 = 2.878254e-004 a2 = -3.469430e-006 a3 = 1.865241e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	654741.6	1.0000	0.0000
4.5000	560138.0	4.4999	-0.0001
14.9999	357508.1	15.0000	0.0001
18.5000	309692.8	18.5000	-0.0000
24.0000	248588.7	24.0000	0.0000
29.0000	204788.9	28.9999	-0.0001
32.5000	179390.0	32.5001	0.0001

n = Instrument Output (counts)

Temperature ITS-90 (°C) =  $1/{a0 + a1[ln(n)] + a2[ln^2(n)] + a3[ln^3(n)]} - 273.15$ 

Residual ( $^{\circ}$ C) = instrument temperature - bath temperature

