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SENSOR SERIAL NUMBER: 1858
CALIBRATION DATE: 10-Jan-25

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -8.146956e-005
a1 = 2.951942e-004
a2 = -3.797596e-006
a3 = 1.978131e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	616247.4	1.0001	0.0001
4.5000	528351.1	4.4999	-0.0001
14.9999	339336.1	15.0000	0.0001
18.5000	294541.6	18.5000	0.0000
24.0000	237158.0	24.0000	0.0000
29.0000	195906.9	28.9998	-0.0002
32.5000	171929.8	32.5001	0.0001

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

