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SENSOR SERIAL NUMBER: 2025
CALIBRATION DATE: 23-May-21

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -8.302510e-005
a1 = 2.910633e-004
a2 = -3.617184e-006
a3 = 1.889816e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	718618.0	1.0000	-0.0000
4.5000	615216.9	4.5001	0.0001
15.0000	393482.3	14.9999	-0.0001
18.5000	341084.3	18.5000	0.0000
24.0000	274072.3	24.0000	0.0000
29.0000	225991.0	29.0000	0.0000
32.5000	198090.5	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

