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SENSOR SERIAL NUMBER: 2025
CALIBRATION DATE: 06-May-21

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -6.073220e-006
a1 = 2.733948e-004
a2 = -2.264670e-006
a3 = 1.544617e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
0.9998	718644.4	0.9998	-0.0000
4.4999	615232.6	4.4999	0.0000
14.9999	393487.6	14.9999	-0.0000
18.5000	341086.1	18.5000	-0.0000
23.9999	274069.9	23.9999	0.0000
28.9999	225982.1	28.9999	0.0000
32.5000	198075.2	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

