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SENSOR SERIAL NUMBER: 3777
CALIBRATION DATE: 12-Nov-23

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 8.731788e-005
a1 = 2.547320e-004
a2 = -6.551747e-007
a3 = 1.132470e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	642676.2	1.0000	0.0000
4.5001	550601.2	4.5001	-0.0000
15.0000	352928.7	15.0000	-0.0000
18.5000	306152.2	18.5000	-0.0000
24.0000	246272.5	24.0001	0.0001
29.0000	203265.7	28.9998	-0.0002
32.4998	178284.6	32.4999	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

