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SENSOR SERIAL NUMBER: 3767
CALIBRATION DATE: 30-Jun-23

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 1.431085e-004
a1 = 2.406233e-004
a2 = 4.938884e-007
a3 = 8.266989e-008

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
0.9999	643804.3	0.9996	-0.0003
4.4999	551622.1	4.5004	0.0005
14.9999	353742.7	14.9995	-0.0004
18.4999	306898.5	18.4998	-0.0001
24.0000	246926.1	24.0003	0.0003
29.0000	203843.3	29.0002	0.0002
32.5000	178818.3	32.4998	-0.0002

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

