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SENSOR SERIAL NUMBER: 1360
CALIBRATION DATE: 01-Aug-25

SBE 38 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 1.460412e-05
a1 = 2.765889e-04
a2 = -2.435029e-06
a3 = 1.556566e-07

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	713478.0	-1.5000	0.0000
1.0000	636823.5	1.0000	-0.0000
4.5000	544713.9	4.5000	-0.0000
8.0000	467462.7	8.0000	-0.0000
11.5000	402449.7	11.5000	0.0000
15.0000	347555.5	15.0001	0.0001
18.5000	301056.5	18.5000	0.0000
22.0000	261543.9	22.0000	-0.0000
25.5000	227864.2	25.5000	-0.0000
29.0000	199072.2	28.9999	-0.0001
32.5000	174385.8	32.5001	0.0001

n = Instrument Output (counts)

Temperature ITS-90 (°C) = $1/\{a0 + a1[\ln(n)] + a2[\ln^2(n)] + a3[\ln^3(n)]\} - 273.15$

Residual (°C) = instrument temperature - bath temperature

