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SENSOR SERIAL NUMBER: 0497
 CALIBRATION DATE: 15-Feb-23

SBE 38 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 3.556575e-005
 a1 = 2.723338e-004
 a2 = -2.359634e-006
 a3 = 1.479108e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	823747.6	-1.5000	0.0000
1.0000	733696.3	1.0000	-0.0000
4.5000	625761.7	4.5000	-0.0000
8.0000	535499.5	8.0000	-0.0000
11.5000	459752.3	11.5000	0.0000
14.9999	395972.9	15.0000	0.0001
18.5000	342092.5	18.5000	-0.0000
21.9999	296428.0	21.9999	0.0000
25.5000	257606.1	25.4999	-0.0001
28.9999	224501.6	28.9999	-0.0000
32.5000	196187.9	32.5000	0.0000

n = Instrument Output (counts)

$$\text{Temperature ITS-90 (°C)} = 1 / \{ a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)] \} - 273.15$$

$$\text{Residual (°C)} = \text{instrument temperature} - \text{bath temperature}$$

