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SENSOR SERIAL NUMBER: 0668
 CALIBRATION DATE: 19-Jan-24

SBE 38 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 3.459391e-005
 a1 = 2.770379e-004
 a2 = -2.610674e-006
 a3 = 1.582497e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	712302.0	-1.5000	0.0000
1.0000	635062.3	1.0000	-0.0000
4.5000	542371.6	4.5000	-0.0000
8.0000	464752.4	8.0000	-0.0000
11.5000	399526.7	11.5000	0.0000
15.0000	344534.6	15.0001	0.0001
18.5000	298019.1	18.5000	0.0000
22.0000	258547.5	22.0000	-0.0000
25.5000	224949.9	25.5000	0.0000
29.0001	196267.2	29.0000	-0.0001
32.5000	171707.1	32.5001	0.0001

n = Instrument Output (counts)

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

Residual (°C) = instrument temperature - bath temperature

