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SENSOR SERIAL NUMBER: 0385
 CALIBRATION DATE: 01-Feb-23

SBE 45 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 3.391891e-005
 a1 = 2.752224e-004
 a2 = -2.507952e-006
 a3 = 1.550095e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	667054.7	1.0000	-0.0000
4.5000	569558.7	4.5000	0.0000
15.0000	361555.0	15.0000	-0.0000
18.5000	312669.0	18.5001	0.0001
24.0000	250343.1	23.9999	-0.0001
29.0000	205778.8	29.0001	0.0001
32.5000	179991.0	32.5000	-0.0000

n = Instrument Output (counts)

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

Residual (°C) = instrument temperature - bath temperature

