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SENSOR SERIAL NUMBER: 0289
 CALIBRATION DATE: 07-Feb-24

SBE 45 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 7.131804e-005
 a1 = 2.712167e-004
 a2 = -2.236169e-006
 a3 = 1.461580e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	641755.1	1.0000	0.0000
4.5000	547431.9	4.5000	-0.0000
15.0000	346565.3	15.0000	0.0000
18.5000	299451.3	18.5000	0.0000
24.0000	239449.5	24.0000	-0.0000
29.0000	196603.8	28.9999	-0.0001
32.5000	171833.2	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

