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SENSOR SERIAL NUMBER: 0454
CALIBRATION DATE: 07-Feb-25

SBE 45 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 2.994966e-005
a1 = 2.734081e-004
a2 = -2.374236e-006
a3 = 1.488699e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	712321.2	1.0000	-0.0000
4.5000	607860.1	4.5000	0.0000
15.0000	385252.8	15.0000	-0.0000
18.5000	332998.5	18.5000	0.0000
24.0000	266420.1	24.0001	0.0001
29.0000	218855.5	28.9999	-0.0001
32.5000	191345.0	32.5000	0.0000

n = Instrument Output (counts)

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

