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

SBE 45 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.796607e-007
a1 = 2.805756e-004
a2 = -2.942635e-006
a3 = 1.638866e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	712351.0	1.0000	0.0000
4.5000	607896.9	4.4999	-0.0001
15.0000	385278.1	15.0000	0.0000
18.5000	333020.6	18.5000	0.0000
24.0000	266438.0	24.0000	-0.0000
29.0000	218869.6	28.9999	-0.0001
32.5000	191357.3	32.5001	0.0001

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

