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SENSOR SERIAL NUMBER: 3777
CALIBRATION DATE: 09-Sep-21

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 4.809158e-005
a1 = 2.630992e-004
a2 = -1.244759e-006
a3 = 1.269557e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	642647.1	0.9999	-0.0001
4.4999	550565.0	4.5000	0.0001
15.0000	352897.2	15.0001	0.0001
18.5000	306131.0	18.4998	-0.0002
24.0000	246265.6	23.9999	-0.0001
29.0001	203264.1	29.0005	0.0004
32.5000	178297.1	32.4998	-0.0002

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

