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SENSOR SERIAL NUMBER: 0475
CALIBRATION DATE: 14-Jun-19

SBE 38 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 9.464209e-005
a1 = 2.703821e-004
a2 = -2.175483e-006
a3 = 1.454775e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	669246.7	-1.4999	0.0001
1.0000	596126.4	0.9999	-0.0001
4.5000	508475.7	4.4999	-0.0001
8.0000	435169.6	8.0000	0.0000
11.5000	373648.7	11.5000	0.0000
15.0000	321842.7	15.0000	0.0000
18.5000	278072.8	18.5001	0.0001
22.0000	240975.3	22.0000	-0.0000
25.5000	209433.8	25.5000	-0.0000
29.0000	182535.3	28.9999	-0.0001
32.5000	159527.3	32.5001	0.0001

n = Instrument Output (counts)

Temperature ITS-90 (°C) = $1/\{a0 + a1[\ln(n)] + a2[\ln^2(n)] + a3[\ln^3(n)]\} - 273.15$

Residual (°C) = instrument temperature - bath temperature

