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SENSOR SERIAL NUMBER: 4078 CALIBRATION DATE: 07-May-21

SBE 37 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

## **COEFFICIENTS:**

a0 = 4.416408e-005 a1 = 2.643734e-004 a2 = -1.439735e-006 a3 = 1.315306e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	666514.2	1.0000	0.0000
4.5000	570655.5	4.5000	-0.0000
14.9999	365102.4	14.9999	0.0000
18.4999	316528.4	18.4998	-0.0001
23.9999	254394.2	24.0001	0.0002
29.0000	209809.7	28.9998	-0.0002
32.5000	183928.7	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 ( $^{\circ}$ C) = instrument temperature - bath temperature

