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SENSOR SERIAL NUMBER: 1855  
CALIBRATION DATE: 29-Jun-23

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.866356e-004  
a1 = 3.282847e-004  
a2 = -5.328631e-006  
a3 = 2.264689e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	555591.0	1.0000	-0.0000
4.5000	477988.5	4.5001	0.0001
15.0000	310231.6	15.0000	0.0000
18.5000	270234.9	18.4998	-0.0002
24.0000	218800.8	24.0002	0.0002
29.0000	181666.3	29.0000	-0.0000
32.5000	160005.5	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

