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SENSOR SERIAL NUMBER: 0477
 CALIBRATION DATE: 28-Jan-21

SBE 38 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 5.682226e-005
 a1 = 2.730638e-004
 a2 = -2.348555e-006
 a3 = 1.497629e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	723373.6	-1.5000	0.0000
1.0000	644574.4	1.0000	-0.0000
4.5000	550078.6	4.4999	-0.0001
7.9999	471007.7	7.9999	0.0000
11.4999	404614.0	11.5000	0.0001
14.9999	348678.0	15.0000	0.0001
18.5000	301397.1	18.5000	-0.0000
22.0000	261304.2	22.0000	-0.0000
25.5000	227201.3	25.5000	-0.0000
29.0000	198105.8	29.0000	-0.0000
32.5000	173209.0	32.5000	0.0000

n = Instrument Output (counts)

$$\text{Temperature ITS-90 (°C)} = 1 / \{ a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)] \} - 273.15$$

Residual (°C) = instrument temperature - bath temperature

