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SENSOR SERIAL NUMBER: 0259
 CALIBRATION DATE: 10-Jan-19

SBE 38 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.500318e-004
 a1 = 3.117393e-004
 a2 = -4.762777e-006
 a3 = 2.112966e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	924199.1	-1.5000	0.0000
1.0000	826381.2	1.0000	-0.0000
4.5000	708600.6	4.5000	-0.0000
8.0000	609583.5	8.0000	-0.0000
11.5000	526062.5	11.5000	-0.0000
14.9999	455380.8	15.0000	0.0001
18.5000	395375.9	18.5000	-0.0000
21.9999	344275.9	21.9999	0.0000
25.4999	300628.0	25.4999	-0.0000
29.0000	263235.2	28.9999	-0.0001
32.5000	231109.5	32.5001	0.0001

n = Instrument Output (counts)

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

$$\text{Residual (°C)} = \text{instrument temperature} - \text{bath temperature}$$

