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SENSOR SERIAL NUMBER: 0266  
 CALIBRATION DATE: 29-Dec-18

SBE 38 TEMPERATURE CALIBRATION DATA  
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.698165e-005  
 a1 = 2.771681e-004  
 a2 = -2.403224e-006  
 a3 = 1.580022e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	743373.9	-1.5000	0.0000
0.9999	664273.9	0.9999	0.0000
4.5000	569090.8	4.4999	-0.0001
8.0000	489131.2	8.0000	-0.0000
11.5000	421733.7	11.5000	-0.0000
14.9999	364738.5	15.0000	0.0001
18.5000	316385.0	18.5000	0.0000
21.9999	275237.3	22.0000	0.0001
25.5000	240114.7	25.4999	-0.0001
29.0000	210046.6	28.9999	-0.0001
32.4999	184231.8	32.5000	0.0001

n = Instrument Output (counts)

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

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

