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SENSOR SERIAL NUMBER: 0455
 CALIBRATION DATE: 28-May-17

SBE 45 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 3.741003e-005
 a1 = 2.726935e-004
 a2 = -2.293100e-006
 a3 = 1.481793e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	686233.6	1.0000	-0.0000
4.5000	585858.6	4.5000	0.0000
15.0000	371778.8	14.9999	-0.0001
18.5000	321478.8	18.5001	0.0001
24.0000	257359.6	24.0000	0.0000
29.0000	211523.1	29.0000	-0.0000
32.5000	185000.2	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

