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SENSOR SERIAL NUMBER: 0454
 CALIBRATION DATE: 16-Jul-23

SBE 45 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.284974e-005
 a1 = 2.856152e-004
 a2 = -3.315840e-006
 a3 = 1.730966e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	712332.1	1.0000	0.0000
4.5000	607878.6	4.5000	-0.0000
15.0000	385271.3	14.9999	-0.0001
18.5000	333014.7	18.5001	0.0001
24.0000	266436.9	24.0001	0.0001
29.0000	218876.4	28.9997	-0.0003
32.5000	191365.3	32.5001	0.0001

n = Instrument Output (counts)

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

Residual (°C) = instrument temperature - bath temperature

