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SENSOR SERIAL NUMBER: 0454
 CALIBRATION DATE: 21-May-17

SBE 45 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 2.519096e-005
 a1 = 2.744144e-004
 a2 = -2.445919e-006
 a3 = 1.505995e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	712280.9	1.0000	-0.0000
4.5000	607830.4	4.5000	0.0000
15.0000	385244.4	15.0000	0.0000
18.5000	332997.0	18.4999	-0.0001
24.0001	266422.9	24.0001	-0.0000
29.0000	218860.0	29.0001	0.0001
32.5000	191354.0	32.4999	-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

