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SENSOR SERIAL NUMBER: 0454
 CALIBRATION DATE: 18-Sep-19

SBE 45 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 6.064403e-005
 a1 = 2.664459e-004
 a2 = -1.848364e-006
 a3 = 1.356327e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
0.9999	712375.8	1.0001	0.0002
4.5000	607918.4	4.4997	-0.0003
15.0000	385280.9	15.0002	0.0002
18.5000	333022.8	18.5002	0.0002
23.9999	266440.9	23.9998	-0.0001
29.0000	218868.3	28.9997	-0.0003
32.5000	191349.4	32.5002	0.0002

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

