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SENSOR SERIAL NUMBER: 0269  
 CALIBRATION DATE: 23-Jun-21

SBE 45 TEMPERATURE CALIBRATION DATA  
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 3.547224e-005  
 a1 = 2.705791e-004  
 a2 = -2.231228e-006  
 a3 = 1.447971e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	754346.8	1.0001	0.0001
4.5000	643456.8	4.4998	-0.0002
15.0000	407295.4	15.0002	0.0002
18.5000	351910.6	18.5000	0.0000
23.9999	281374.7	23.9998	-0.0001
28.9999	231007.8	28.9998	-0.0001
32.5001	201887.8	32.5002	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

