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SENSOR SERIAL NUMBER: 0080  
 CALIBRATION DATE: 18-Jul-20

SBE 45 TEMPERATURE CALIBRATION DATA  
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 6.719610e-005  
 a1 = 2.604945e-004  
 a2 = -1.361504e-006  
 a3 = 1.313542e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	702086.9	1.0000	0.0000
4.5000	600643.7	4.4999	-0.0001
15.0000	383377.5	15.0000	-0.0000
18.5000	332104.3	18.5001	0.0001
24.0000	266583.8	23.9999	-0.0001
29.0000	219608.2	29.0000	-0.0000
32.5000	192366.9	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

