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SENSOR SERIAL NUMBER: 3764 CALIBRATION DATE: 03-May-19

SBE 37 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

## **COEFFICIENTS:**

a0 = -6.426233e-005 a1 = 2.887730e-004 a2 = -3.278100e-006 a3 = 1.819609e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	645025.0	1.0001	0.0001
4.5000	552842.1	4.4998	-0.0002
15.0000	354743.0	15.0001	0.0001
18.5000	307831.5	18.5001	0.0001
23.9999	247760.9	23.9997	-0.0002
29.0000	204590.2	29.0000	-0.0000
32.5000	179509.3	32.5001	0.0001

n = Instrument Output (counts)

Temperature ITS-90 (°C) =  $1/{a0 + a1[ln(n)] + a2[ln^2(n)] + a3[ln^3(n)]} - 273.15$ 

Residual ( $^{\circ}$ C) = instrument temperature - bath temperature

