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SENSOR SERIAL NUMBER: 0814 CALIBRATION DATE: 14-Jan-25 SBE 39 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

## **COEFFICIENTS:**

a0 = -5.734530e-004 a1 = 4.353791e-004 a2 = -1.701847e-005 a3 = 5.939870e-007

BATH TEMP	INSTRUMENT	INST TEMP	RESIDUAL
(° C)	OUTPUT (counts)	(° C)	(° C)
-1.5000	772376.0	-1.5000	0.0000
1.0000	690779.3	1.0000	0.0000
4.5000	592262.7	4.5000	-0.0000
8.0000	509220.4	8.0000	-0.0000
11.5000	439030.0	11.5000	0.0000
15.0000	379543.0	15.0000	0.0000
18.5000	328993.1	18.5000	0.0000
22.0000	285924.4	22.0001	0.0001
25.5000	249136.7	25.5000	-0.0000
29.0001	217632.4	29.0000	-0.0001
32.5000	190585.4	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

