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SENSOR SERIAL NUMBER: 1678 CALIBRATION DATE: 25-May-21

SBE 37 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

## **COEFFICIENTS:**

a0 = 9.945066e-006 a1 = 2.676853e-004 a2 = -1.797657e-006 a3 = 1.403315e-007

BATH TEMP	INSTRUMENT	INST TEMP	RESIDUAL
(° C)	OUTPUT (counts)	(° C)	(° C)
0.9998	745108.0	0.9998	-0.0000
4.5000	637706.3	4.5001	0.0001
15.0000	407561.0	14.9999	-0.0001
18.5000	353207.9	18.5000	0.0000
23.9999	283718.3	23.9999	0.0000
28.9999	233872.8	28.9999	0.0000
32.5001	204953.6	32.5001	-0.0000

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

