Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0504 CALIBRATION DATE: 26-Nov-15 SBE 39 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.581490e-006 a1 = 2.711544e-004 a2 = -2.205680e-006 a3 = 1.520097e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	867423.0	-1.5000	0.0000
1.0000	774317.3	1.0000	-0.0000
4.5000	662409.2	4.5000	-0.0000
8.0000	568526.0	8.0000	-0.0000
11.5000	489494.9	11.5000	0.0000
15.0000	422749.0	15.0000	0.0000
18.5000	366196.7	18.5001	0.0001
22.0000	318133.5	22.0000	-0.0000
25.5000	277159.5	25.4999	-0.0001
29.0000	242125.6	29.0000	-0.0000
32.5000	212085.3	32.5000	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

