APPLIED GEOMECHANICS INC.
CALIBRATION CERTIFICATE
Model 900, Serial Number 4327
Date: 08-27-1999

X-AXIS CALIBRATION

Theta	X-OUTPUT	Y-OUTPUT
-25.857	-2.7016	0.3065
-24.363	-2.5124	0.3065
-22.874	-2.3316	0.3055
-21.341	-2.1517	0.3003
-19.842	-1.9816	0.2994
-18.306	-1.8130	0.3011
-16.779	-1.6489	0.2985
-15.002	-1.4630	0.3029
-13.486	-1.3087	0.3035
-11.965	-1.1557	0.3036
-10.454	-1.0055	0.3017
-8.935	-0.8566	0.3059
-7.414	-0.7088	0.3066
-5.900	-0.5627	0.3078
-4.379	-0.4174	0.3029
-2.849	-0.2714	0.3099
-1.333	-0.1271	0.3083
0.194	0.0183	0.3070
1.711	0.1635	0.3141
3.227	0.3091	0.3158
4.757	0.4577	0.3160
6.281	0.6064	0.3194
7.797	0.7564	0.3224
9.332	0.9105	0.3234
10.848	1.0664	0.3282
12.373	1.2247	0.3263
13.900	1.3862	0.3336
15.419	1.5509	0.3394
16.943	1.7232	0.3421
18.459	1.8980	0.3419
19.964	2.0788	0.3519
21.470	2.2669	0.3577

Y-AXIS CALIBRATION

Theta	X-OUTPUT	Y-OUTPUT
-20.6842	-0.1775	-2.202
-19.1873	-0.1787	-2.018
-17.6959	-0.1775	-1.827
-16.1661	-0.1775	-1.655
-14.6637	-0.1779	-1.490
-13.1284	-0.1785	-1.314
-11.5848	-0.1778	-1.144
-9.8242	-0.1789	-0.971
-8.3109	-0.1786	-0.814
-6.7865	-0.1791	-0.660
-5.2731	-0.1795	-0.512
-3.7570	-0.1794	-0.364
-2.2354	-0.1798	-0.213
-0.7193	-0.1807	-0.070
0.7996	-0.1809	0.076
2.3322	-0.1815	0.222
3.8483	-0.1830	0.363
5.3726	-0.1842	0.508
6.8915	-0.1846	0.652
8.4048	-0.1862	0.802
9.9347	-0.1871	0.950
11.4618	-0.1878	1.099
12.9779	-0.1887	1.251
14.5132	-0.1904	1.405
16.0294	-0.1921	1.551
17.5510	-0.1942	1.698
19.0808	-0.1955	1.871
20.5969	-0.1971	2.048
22.1240	-0.1992	2.209
23.6401	-0.2013	2.398
25.1453	-0.2038	2.556
26.6504	-0.2056	2.727

Theta is reported in: Arc Degrees
X and Y outputs are reported in Volts.
X-Axis calibration temperature = 19.9 deg. C
Y-Axis calibration temperature = 19.8 deg. C

Scale Factors are determined by linear regression of all data points for each axis of calibration.

X-AXIS SCALE FACTOR = 9.873 Arc Degrees/volt
Maximum nonlinearity (% of full span), X-AXIS = 1.935

Y-AXIS SCALE FACTOR = 9.91 Arc Degrees/volt
Maximum nonlinearity (% of full span), Y-AXIS = 1.9569

Calibration curves fit a polynomial of form:
Theta = a + bV + cV**2 + dV**3 + eV**4 + fV**5 where V = X or Y output

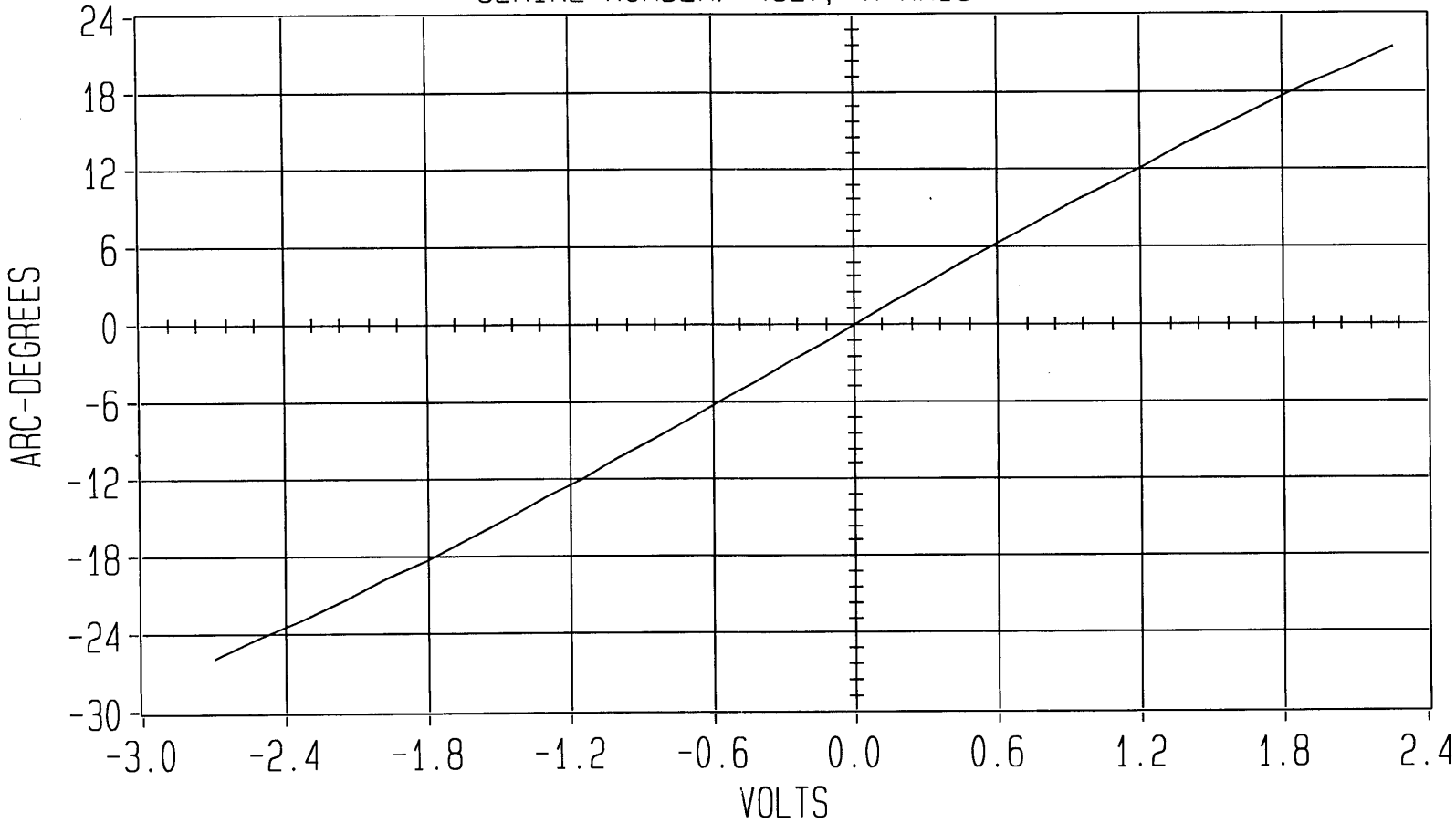
POLYNOMIAL FIT COEFICIENTS

a	b	c	d	e	f

X-AXIS	0.0000	10.4739	-0.0963	-0.1714	0.0025	0.0026
Y-AXIS	0.0000	10.5002	0.1549	-0.1942	-0.0037	0.0062

CALIBRATION CURVE

SERIAL NUMBER: 4327, X-AXIS



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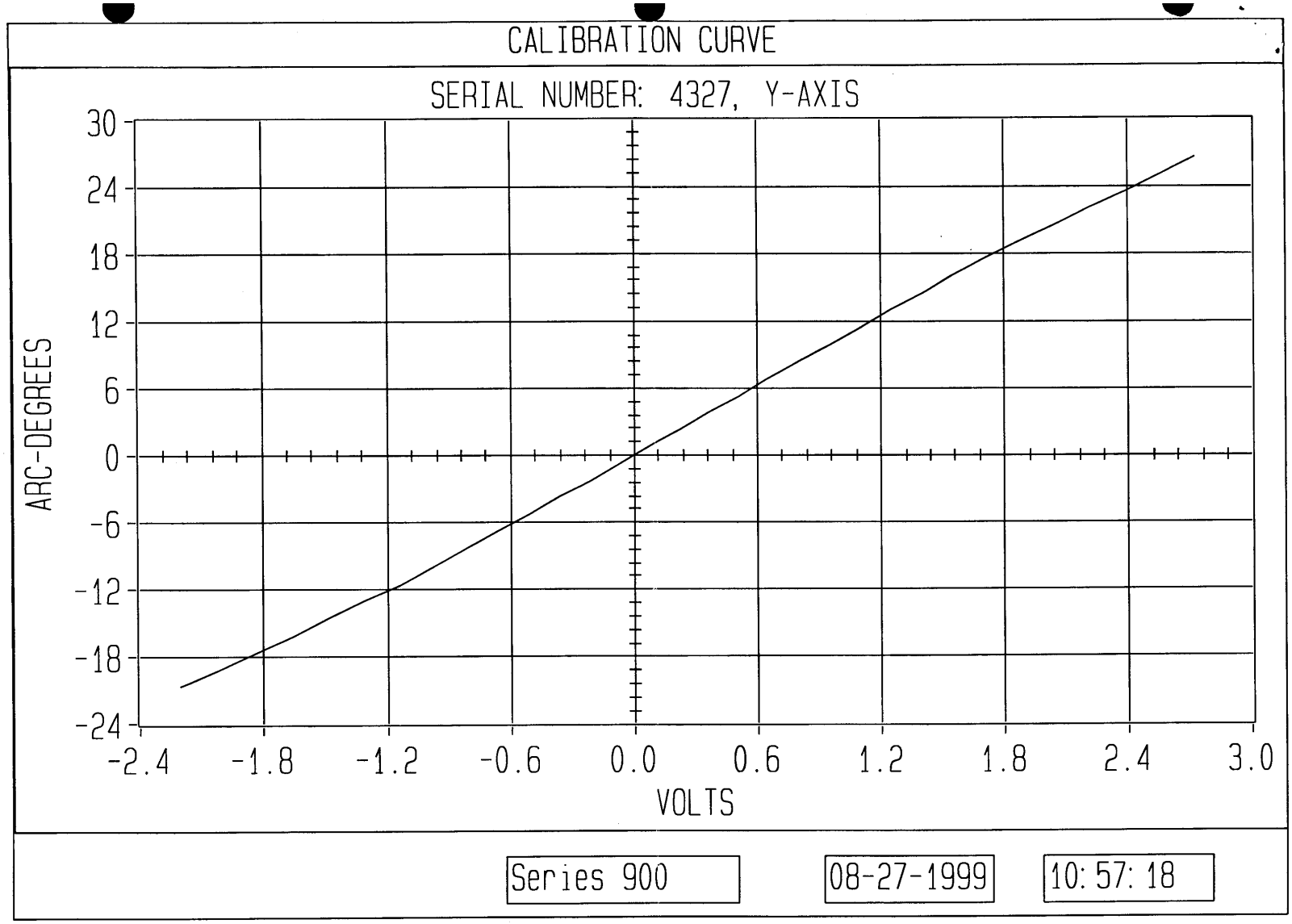
CALIBRATION CURVE
SERIAL NUMBER: 4327, Y-AXIS
ARC-DEGREES
30
24
18
12
6
0
-6
-12
-18
-24
-2.4
-1.8
-1.2
-0.6
0.0
0.6
1.2
1.8
2.4
3.0
VOLTS
Series 900
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