

NASA CONTRACTOR REPORT 191483

**VARIABILITY OF MEASURED
SONIC BOOM SIGNATURES**

VOLUME II - DATA REPORT

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APPENDIX A

Extended Database

Augmented BOOMFILE Database (Noise Metrics)

FILE NAME	Time (Hours)	Pmax (PSF)	Pmin (PSF)	ESEL (dB)	ASEL (dB)	CSEL (dB)	PLDB (dB)	Sideline (Feet)	Altitude (Feet)	Mach #	Aircraft
P00 841 800	8.68	3.491	-3.235	123.700	98.600	114.000	113.600	0.0	16000.0	1.20	F4
P00 748 803	7.80	2.682	-2.008	122.100	91.200	110.400	107.200	1387.0	29200.0	1.24	F4
P00 758 803	7.97	2.929	-2.722	123.400	96.100	112.100	110.900	3751.0	29300.0	1.29	F4
P001029 803	10.48	13.335	-3.232	128.300	109.800	120.500	124.400	-3358.0	14400.0	1.10	F4
P001043 803	10.72	1.764	-1.536	120.200	87.400	106.400	103.200	4754.0	44400.0	1.37	F4
P001238 803	12.63	0.726	-0.597	112.100	77.900	97.400	90.800	3717.0	21200.0	1.05	T38
P00 719 804	7.32	0.493	-0.453	106.900	71.700	95.200	86.500	-597.0	41400.0	1.17	AT38
P00 730 804	7.50	0.529	-0.672	110.200	72.800	95.900	88.400	1033.0	32300.0	1.12	AT38
P00 736 804	7.60	0.613	-0.646	109.300	73.900	98.000	89.500	7079.0	16700.0	1.15	AT38
P00 756 804	7.93	1.489	-1.095	115.600	86.900	104.800	102.400	8703.0	41400.0	1.38	F15
P00 756 804	7.93	0.207	-0.218	106.500	75.200	89.600	85.500	8703.0	41400.0	1.38	F15
P00 8 4 804	8.07	1.905	-1.496	118.900	88.800	107.200	103.900	2928.0	29700.0	1.20	F15
P00 810 804	8.17	3.507	-3.260	125.100	98.400	114.000	113.400	3679.0	12500.0	1.10	F15
P00 914 804	9.23	0.747	-0.817	111.100	79.500	100.100	94.100	-2003.0	30300.0	1.20	AT38
P00 923 804	9.38	1.160	-0.597	110.800	79.200	101.600	95.400	-2403.0	14000.0	1.10	AT38
P00 952 804	9.87	0.482	-0.399	106.500	74.700	94.200	88.500	0.0	0.0	0.00	
P001046 804	10.77	5.851	-3.044	124.100	103.500	116.900	118.600	4288.0	15200.0	1.13	F15
P0011 2 804	11.03	2.168	-1.571	118.700	89.900	108.300	105.500	-2853.0	31000.0	1.28	F15
P001111 804	11.18	0.982	-0.808	113.800	80.500	99.500	95.300	17103.0	45000.0	1.42	F15
P001134 804	11.57	1.924	-0.972	114.800	88.600	106.700	103.900	905.0	45500.0	1.40	F15
P001139 804	11.65	1.593	-1.071	115.400	82.500	105.000	99.400	0.0	0.0	0.00	
P00 820 805	8.33	0.895	-0.545	111.400	78.600	100.400	94.300	0.0	0.0	0.00	
P00 820 805	8.33	0.754	-0.648	112.800	76.700	99.800	92.800	0.0	0.0	0.00	
P00 9 6 805	9.10	1.081	-0.925	113.900	78.100	101.900	94.200	-10561.0	29500.0	1.25	F16
P00 9 6 805	9.10	0.705	-0.491	107.900	76.200	99.600	92.000	-10361.0	29500.0	1.25	F16
P00 926 805	9.43	1.205	-0.958	116.200	88.100	103.100	101.600	4226.0	64800.0	2.50	SR71
P00 933 805	9.55	0.879	-0.871	113.000	79.200	100.400	94.500	-2606.0	46700.0	1.43	F16
P00 944 805	9.73	2.809	-2.448	120.900	92.900	111.900	108.800	-5091.0	19300.0	1.17	F16
P001055 805	10.92	0.827	-0.698	114.500	80.900	97.800	93.200	0.0	73000.0	3.00	SR71
P0011 8 805	11.13	2.262	-1.773	120.700	92.800	107.400	107.300	-2986.0	32400.0	1.23	SR71
P001144 805	11.73	5.628	-3.328	124.600	96.700	116.700	114.500	-2119.0	14400.0	1.13	F16
P001154 805	11.90	3.772	-3.552	124.400	95.300	114.700	112.000	3264.0	13800.0	1.12	F16
P0012 4 805	12.07	1.900	-1.388	116.700	91.400	108.300	106.600	1993.0	30000.0	1.25	F16
P001235 805	12.58	1.330	-0.980	115.900	88.000	104.600	102.500	9995.0	52000.0	1.70	SR71
P00 744 806	7.73	1.943	-1.757	118.800	91.600	108.400	106.300	667.0	30000.0	1.30	F18
P00 757 806	7.95	1.454	-1.170	116.400	88.200	105.500	103.100	-2466.0	44700.0	1.40	F18
P00 810 806	8.17	3.848	-3.009	123.900	98.000	114.400	113.700	-8330.0	14200.0	1.10	F18
P001022 806	10.37	1.849	-1.849	119.300	94.200	108.800	108.200	-98.0	30000.0	1.30	F18
P001030 806	10.50	0.719	-0.674	111.200	76.500	98.700	92.600	0.0	0.0	0.00	
P001034 806	10.57	1.221	-0.963	114.800	87.200	103.800	101.300	983.0	45000.0	1.43	F18
P001043 806	10.72	4.024	-3.589	125.200	98.500	115.000	114.300	9977.0	16500.0	1.27	F14
P001048 806	10.80	5.912	-4.153	126.200	105.600	118.000	120.200	0.0	13000.0	1.10	F18
P001148 806	11.80	8.358	-5.339	128.700	107.600	120.500	122.800	-158.0	14000.0	1.20	F111D
P0012 4 806	12.07	1.473	-1.132	117.000	83.700	103.800	99.100	56.0	45000.0	1.40	F111D
P00 817 807	8.28	1.971	-1.442	117.900	85.600	106.600	102.000	0.0	0.0	0.00	
P0010 2 807	10.03	0.982	-1.158	115.400	83.900	102.300	98.300	0.0	0.0	0.00	
P001050 807	10.83	2.300	-1.964	121.000	97.700	109.400	111.000	-7803.0	29900.0	1.25	F111D
P01 841 800	8.68	3.216	-3.230	123.500	98.000	113.800	113.400	0.0	16000.0	1.20	F4
P01 748 803	7.80	2.246	-2.159	121.500	91.800	109.100	106.800	1287.0	29200.0	1.24	F4
P01 758 803	7.97	3.143	-2.657	123.200	96.100	112.500	111.500	3651.0	29300.0	1.29	F4

P011029 803	10.48	4.862	-3.873	126.300	98.800	115.100	115.200	-3458.0	14400.0	1.10	F4
P011043 803	10.72	1.762	-1.520	119.800	87.200	105.900	102.400	4654.0	44400.0	1.37	F4
P01 719 804	7.32	0.467	-0.451	106.600	71.700	94.800	86.300	-697.0	41400.0	1.17	AT38
P01 730 804	7.50	0.496	-0.627	109.800	73.400	95.100	88.000	933.0	32300.0	1.12	AT38
P01 736 804	7.60	0.578	-0.620	109.000	73.900	97.300	88.500	6979.0	16700.0	1.15	AT38
P01 756 804	7.93	1.369	-1.024	115.200	86.200	104.100	101.100	8603.0	41400.0	1.38	F15
P01 756 804	7.93	0.193	-0.218	106.300	76.400	89.300	86.400	8603.0	41400.0	1.38	F15
P01 8 4 804	8.07	1.889	-1.423	118.600	85.600	106.200	101.700	2828.0	29700.0	1.20	F15
P01 810 804	8.17	3.277	-3.169	124.700	96.200	113.100	111.600	3579.0	12500.0	1.10	F15
P01 914 804	9.23	0.695	-0.799	110.900	79.700	99.700	94.000	-2103.0	30300.0	1.20	AT38
P01 923 804	9.38	1.097	-0.590	110.600	78.900	101.200	94.600	-2503.0	14000.0	1.10	AT38
P01 952 804	9.87	0.472	-0.411	106.600	72.100	93.500	86.500	0.0	0.0	0.00	
P011046 804	10.77	6.055	-3.056	124.200	107.500	117.900	121.700	4188.0	15200.0	1.13	F15
P0111 2 804	11.03	1.903	-1.489	118.300	89.700	107.700	105.200	-2953.0	31000.0	1.28	F15
P01111 804	11.18	1.017	-0.834	113.800	79.800	100.800	95.700	17003.0	45000.0	1.42	F15
P011134 804	11.57	1.548	-0.914	114.300	82.800	105.100	99.500	805.0	45500.0	1.40	F15
P011139 804	11.57	1.426	-1.062	115.600	82.000	104.700	98.500	0.0	0.0	0.00	
P01 820 805	8.33	0.810	-0.531	111.100	78.200	100.000	94.000	0.0	0.0	0.00	
P01 820 805	8.33	0.712	-0.639	112.500	77.800	99.400	93.200	0.0	0.0	0.00	
P01 9 6 805	9.10	0.998	-0.874	113.600	77.700	100.300	92.400	-10661.0	29500.0	1.25	F16
P01 9 6 805	9.10	0.674	-0.503	108.000	77.700	99.100	92.800	-10661.0	29500.0	1.25	F16
P01 926 805	9.43	1.212	-0.975	116.300	85.800	103.400	100.200	4126.0	64800.0	2.50	SR71
P01 933 805	9.55	0.961	-0.864	113.000	84.700	101.800	98.700	-2706.0	46700.0	1.43	F16
P01 944 805	9.73	2.626	-2.325	120.600	90.900	110.800	107.300	-5191.0	19300.0	1.17	F16
P011055 805	10.92	0.778	-0.705	114.300	80.500	97.400	92.600	0.0	73000.0	3.00	SR71
P0111 8 805	11.13	1.863	-1.752	120.700	91.500	106.800	105.800	-3086.0	32400.0	1.23	SR71
P011144 805	11.73	5.297	-3.110	124.100	98.700	115.800	115.000	-2219.0	14400.0	1.13	F16
P011154 805	11.90	3.819	-3.528	124.000	102.500	114.200	116.500	3164.0	13800.0	1.12	F16
P0112 4 805	12.07	2.398	-1.341	116.700	91.600	109.700	108.300	1893.0	30000.0	1.25	F16
P011235 805	12.58	1.275	-0.977	115.600	85.800	103.600	100.800	9895.0	52000.0	1.70	SR71
P01 744 806	7.73	1.945	-1.759	118.700	93.700	108.400	107.200	567.0	30000.0	1.30	F18
P01 757 806	7.95	1.414	-1.170	116.300	88.100	105.500	102.900	-2566.0	44700.0	1.40	F18
P01 810 806	8.17	3.577	-2.995	123.800	96.300	113.500	111.700	-8430.0	14200.0	1.10	F18
P011022 806	10.37	1.788	-1.830	119.000	93.900	108.500	107.700	-198.0	30000.0	1.30	F18
P011030 806	10.50	0.716	-0.700	111.600	75.700	98.600	91.600	0.0	0.0	0.00	
P011034 806	10.57	1.344	-0.937	114.400	88.100	103.500	102.100	883.0	45000.0	1.43	F18
P011043 806	10.72	3.986	-3.538	124.900	97.800	114.600	113.800	9877.0	16500.0	1.27	F14
P011048 806	10.80	6.591	-4.050	126.100	105.700	117.500	120.300	0.0	13000.0	1.10	F18
P011148 806	11.80	9.856	-5.431	129.000	108.400	122.300	124.100	-258.0	14000.0	1.20	F111D
P011152 806	11.87	0.218	-0.221	103.400	75.300	89.600	85.800	0.0	0.0	0.00	
P0112 4 806	12.07	1.710	-1.090	117.000	83.500	104.000	99.200	-44.0	45000.0	1.40	F111D
P01 817 807	8.28	1.731	-1.452	117.900	88.200	106.400	102.700	0.0	0.0	0.00	
P01 817 807	8.28	0.155	-0.136	99.500	71.700	81.900	81.500	0.0	0.0	0.00	
P0110 2 807	10.03	1.137	-1.207	115.700	85.100	103.200	99.500	0.0	0.0	0.00	
P011050 807	10.83	2.147	-1.931	120.900	96.000	109.400	110.300	-7903.0	29900.0	1.25	F111D
P48 719 804	7.32	0.359	-0.301	104.200	70.500	92.900	84.900	-62901.0	41400.0	1.17	AT38
P48 757 804	7.95	0.174	-0.204	102.100	71.400	85.100	81.600	0.0	0.0	0.00	
P48 8 4 804	8.07	0.451	-0.341	107.800	72.600	94.500	87.000	0.0	0.0	0.00	
P48 914 804	9.23	0.188	-0.160	97.900	70.900	86.400	81.800	-59376.0	29700.0	1.20	F15
P48 952 804	9.87	0.639	-0.437	108.200	77.100	97.900	92.500	-64307.0	30300.0	1.20	AT38
P4811 2 804	11.03	0.933	-0.646	112.100	76.000	99.100	90.900	0.0	0.0	0.00	
P481134 804	11.57	0.655	-0.456	110.700	75.100	95.300	88.500	-61399.0	45500.0	1.40	F15
P48 820 805	8.33	0.735	-0.615	111.200	76.300	99.300	91.900	0.0	0.0	0.00	
P48 9 6 805	9.10	1.123	-0.883	114.100	77.700	102.000	94.500	0.0	0.0	0.00	
P48 9 6 805	9.10	0.738	-0.810	110.400	82.000	100.100	96.500	-72865.0	29500.0	1.25	F16
P48 926 805	9.43	0.695	-0.597	112.000	78.400	97.400	92.200	-72865.0	29500.0	1.25	F16
P48 934 805	9.57	0.261	-0.190	101.600	69.700	87.000	80.800	-58078.0	64800.0	2.50	SR71
P48 953 805	9.88	0.381	-0.493	109.000	73.800	94.300	88.300	0.0	0.0	0.00	
P481055 805	10.92	0.679	-0.472	111.800	77.300	97.500	92.400	0.0	73000.0	3.00	SR71
P48 829 806	8.48	0.684	-0.420	112.600	76.500	97.400	90.500	-80084.0	31500.0	1.20	F14

P48 845 806	8.75	1.839	-1.860	122.100	87.900	107.600	103.400	0.0	0.0	0.00	
P481023 806	10.38	0.568	-0.472	109.300	75.200	95.900	89.400	0.0	0.0	0.00	
P481030 806	10.50	0.745	-0.651	111.000	79.100	99.400	94.000	0.0	0.0	0.00	
P481152 806	11.87	0.392	-0.256	105.600	74.100	92.400	86.300	0.0	0.0	0.00	
P48 745 807	7.75	2.013	-1.811	121.000	88.700	108.400	104.800	0.0	0.0	0.00	
P481050 807	10.83	0.902	-0.707	114.400	76.300	96.300	88.800	-70107.0	29900.0	1.25	F111D
P50 841 800	8.68	0.721	-0.714	114.900	79.200	97.600	91.300	0.0	16000.0	1.20	F4
P50 930 800	9.50	0.587	-0.552	109.600	71.000	95.300	84.100	0.0	0.0	0.00	
P50 758 803	7.97	0.928	-0.439	109.800	79.200	101.100	95.400	-47993.0	29300.0	1.29	F4
P50 719 804	7.32	0.277	-0.240	102.400	71.500	89.900	82.700	-52341.0	41400.0	1.17	AT38
P50 756 804	7.93	0.345	-0.190	104.200	73.900	92.300	87.900	-43041.0	41400.0	1.38	F15
P50 8 4 804	8.07	0.265	-0.197	103.300	73.500	89.200	84.600	-48816.0	29700.0	1.20	F15
P50 914 804	9.23	0.221	-0.179	100.000	69.700	87.500	81.500	-53747.0	30300.0	1.20	AT38
P50 923 804	9.38	0.352	-0.265	102.500	69.700	90.700	83.400	-54147.0	14000.0	1.10	AT38
P50 952 804	9.87	0.644	-0.620	109.800	77.300	98.500	92.700	0.0	0.0	0.00	
P501046 804	10.77	0.181	-0.124	100.500	71.300	85.700	81.900	-47456.0	15200.0	1.13	F15
P5011 2 804	11.03	0.667	-0.587	111.500	74.800	94.300	88.800	-54597.0	31000.0	1.28	F15
P50 820 805	8.33	0.637	-0.599	110.900	78.200	98.500	93.200	0.0	0.0	0.00	
P50 9 6 805	9.10	1.071	-1.156	115.300	82.600	102.800	98.200	-62305.0	29500.0	1.25	F16
P50 9 6 805	9.10	0.921	-0.897	111.700	80.500	101.900	96.700	-62305.0	29500.0	1.25	F16
P50 926 805	9.43	1.055	-0.667	113.400	85.000	101.200	98.300	-47518.0	64800.0	2.50	SR71
P50 934 805	9.57	0.275	-0.214	103.400	71.600	87.800	82.400	0.0	0.0	0.00	
P501055 805	10.92	0.803	-0.465	111.900	79.600	98.800	94.500	0.0	73000.0	3.00	SR71
P5011 8 805	11.13	3.098	-1.362	119.800	96.100	111.200	111.300	-54730.0	32400.0	1.23	SR71
P5012 5 805	12.08	0.348	-0.510	109.700	75.600	93.700	87.500	0.0	0.0	0.00	
P50 829 806	8.48	0.564	-0.411	111.200	77.200	97.500	92.200	-69524.0	31500.0	1.20	F14
P501023 806	10.38	0.956	-0.836	113.900	76.800	100.100	92.600	0.0	0.0	0.00	
P501030 806	10.50	0.836	-0.888	113.600	81.600	100.000	95.500	0.0	0.0	0.00	
P501034 806	10.57	1.513	-0.620	115.900	80.800	101.900	96.500	-50761.0	45000.0	1.43	F18
P501152 806	11.87	0.862	-0.573	111.500	74.500	99.600	89.600	0.0	0.0	0.00	
P50 745 807	7.75	1.675	-1.473	119.300	83.200	106.100	99.200	0.0	0.0	0.00	
P501050 807	10.83	1.400	-1.210	117.400	81.500	103.900	97.400	-59547.0	29900.0	1.25	F111D
P52 841 808	8.68	1.485	-1.703	120.100	82.900	105.000	98.700	0.0	16000.0	1.20	F4
P52 758 803	7.97	0.803	-0.801	113.600	81.200	98.700	94.500	-37433.0	29300.0	1.29	F4
P521134 803	11.57	1.442	-1.597	119.400	84.400	104.300	99.600	0.0	0.0	0.00	
P52 719 804	7.32	0.298	-0.254	102.300	69.400	90.900	82.900	-41781.0	41400.0	1.17	AT38
P52 730 804	7.50	0.625	-0.484	108.100	74.900	97.200	90.600	-40151.0	32300.0	1.12	AT38
P52 736 804	7.60	0.132	-0.085	93.500	67.900	83.000	79.100	-34105.0	16700.0	1.15	AT38
P52 756 804	7.93	0.120	-0.070	95.100	68.800	80.900	79.000	-32481.0	41400.0	1.38	F15
P52 756 804	7.93	2.553	-1.313	119.900	88.000	108.300	103.600	-32481.0	41400.0	1.38	F15
P52 8 4 804	8.07	0.970	-0.841	115.800	80.000	101.700	96.000	-38256.0	29700.0	1.20	F15
P52 914 804	9.23	0.486	-0.404	105.900	74.200	95.900	90.100	-43187.0	30300.0	1.20	AT38
P52 923 804	9.38	0.265	-0.244	102.100	71.100	89.400	82.000	-43587.0	14000.0	1.10	AT38
P52 952 804	9.87	0.545	-0.559	109.800	75.900	95.800	88.600	0.0	0.0	0.00	
P521046 804	10.77	0.453	-0.338	108.700	75.000	90.300	86.400	-36896.0	15200.0	1.13	F15
P5211 2 804	11.03	0.925	-0.883	114.100	82.200	100.400	96.100	-44037.0	31000.0	1.28	F15
P52111 804	11.18	0.211	-0.197	102.200	70.300	84.800	80.400	-24081.0	45000.0	1.42	F15
P521134 804	11.57	0.754	-0.583	111.500	74.800	96.700	88.700	-40279.0	45500.0	1.40	F15
P52 820 805	8.33	0.634	-0.564	110.300	85.200	98.200	97.200	0.0	0.0	0.00	
P52 9 6 805	9.10	1.330	-1.085	115.300	86.600	105.100	101.600	-51745.0	29500.0	1.25	F16
P52 9 6 805	9.10	0.813	-0.902	111.700	82.400	101.100	97.400	-51745.0	29500.0	1.25	F16
P52 926 805	9.43	0.794	-0.752	113.900	81.600	99.200	95.100	-36958.0	64800.0	2.50	SR71
P52 934 805	9.57	0.822	-0.651	112.500	76.400	97.800	90.500	0.0	0.0	0.00	
P52 945 805	9.75	0.521	-0.470	110.000	78.000	93.000	89.600	0.0	0.0	0.00	
P521055 805	10.92	0.949	-0.547	113.800	82.400	99.400	96.700	0.0	73000.0	3.00	SR71
P5211 8 805	11.13	1.928	-1.301	117.600	88.200	106.500	103.900	-44170.0	32400.0	1.23	SR71
P5212 4 805	12.07	0.996	-0.888	115.300	79.100	101.400	94.600	-39191.0	30000.0	1.25	F16
P521236 805	12.60	1.233	-0.813	114.400	83.100	102.300	99.200	0.0	0.0	0.00	
P52 757 806	7.95	0.491	-0.498	110.500	78.400	93.800	89.300	-43650.0	44700.0	1.40	F18
P52 829 806	8.48	0.893	-0.559	115.100	83.300	102.100	98.000	-58964.0	31500.0	1.20	F14

P521022	806	10.37	1.762	-1.184	116.800	83.400	104.000	99.200	-41282.0	30000.0	1.30	F18
P521030	806	10.50	0.782	-0.937	114.000	78.200	98.600	92.600	0.0	0.0	0.00	F18
P521034	806	10.57	1.268	-0.904	116.000	82.200	102.800	97.100	-40201.0	45000.0	1.43	F18
P521148	806	11.80	0.700	-0.529	112.500	79.300	99.100	92.900	-41342.0	14000.0	1.20	F111D
P521152	806	11.87	0.949	-0.540	111.700	75.900	100.600	91.900	0.0	0.0	0.00	F111D
P521050	807	10.83	2.147	-1.421	118.900	86.400	108.100	103.400	-48987.0	29900.0	1.25	F111D
P54 841	800	8.68	2.011	-2.095	120.100	87.900	108.200	103.400	0.0	16000.0	1.20	F4
P54 930	800	9.50	0.660	-0.540	110.800	77.400	94.600	88.300	0.0	0.0	0.00	F4
P54 748	803	7.80	1.771	-1.541	121.700	84.500	106.400	100.900	-29237.0	29200.0	1.24	F4
P54 758	803	7.97	1.083	-0.761	114.500	79.000	100.500	91.500	-26873.0	29300.0	1.29	F4
P54 8 803	8.13	0.338	0.338	-0.357	108.100	77.200	92.000	87.700	0.0	13000.0	1.10	F4
P541030	803	10.50	1.132	-0.761	116.300	80.800	101.700	95.800	0.0	0.0	0.00	F4
P541043	803	10.72	0.303	-0.209	108.000	76.000	87.900	85.900	-25870.0	44400.0	1.37	F4
P54 719	804	7.32	0.364	-0.247	102.900	68.900	92.300	84.700	-31221.0	41400.0	1.17	AT38
P54 730	804	7.50	0.329	-0.265	105.300	76.800	93.100	88.600	-29591.0	32300.0	1.12	AT38
P54 810	804	8.17	0.958	-0.759	116.200	78.400	100.500	93.200	-26945.0	12500.0	1.10	F15
P54 914	804	9.23	0.587	-0.460	106.600	73.300	97.700	90.100	-32627.0	30300.0	1.20	AT38
P54 923	804	9.38	0.327	-0.310	103.800	70.200	91.100	82.600	-33027.0	14000.0	1.10	AT38
P54 952	804	9.87	0.987	-0.874	115.000	80.000	101.600	95.800	0.0	0.0	0.00	F15
P541046	804	10.77	1.008	-0.780	113.700	78.200	99.100	93.200	-26336.0	15200.0	1.13	F15
P5411 2	804	11.03	1.036	-0.975	115.000	77.700	99.700	92.800	-33477.0	31000.0	1.28	F15
P541111	804	11.18	0.364	-0.308	108.600	73.000	91.400	84.500	-13521.0	45000.0	1.42	F15
P541134	804	11.57	1.142	-0.853	113.900	78.000	101.200	94.100	-29719.0	45500.0	1.40	F15
P541140	804	11.67	0.594	-0.575	109.400	77.000	99.900	92.500	0.0	0.0	0.00	F15
P54 820	805	8.33	0.634	-0.669	111.400	79.500	97.500	94.100	0.0	0.0	0.00	F16
P54 9 6	805	9.10	1.353	-1.156	115.000	83.400	103.100	98.800	-41185.0	29500.0	1.25	F16
P54 9 6	805	9.10	0.897	-1.019	112.900	82.400	101.700	97.300	-41185.0	29500.0	1.25	F16
P54 926	805	9.43	0.944	-0.726	114.300	79.500	100.200	94.800	-26398.0	64800.0	2.50	SR71
P54 933	805	9.55	0.921	-0.782	113.200	79.500	99.600	94.500	-33230.0	46700.0	1.43	F16
P54 944	805	9.73	3.333	-1.651	119.600	90.000	110.900	107.700	-35715.0	19300.0	1.17	F16
P541055	805	10.92	0.766	-0.557	112.700	77.800	99.000	93.100	0.0	73000.0	3.00	SR71
P5411 8	805	11.13	2.058	-1.456	119.200	91.200	108.100	106.500	-33610.0	32400.0	1.23	SR71
P541144	805	11.73	1.153	-1.125	115.400	80.000	103.000	96.500	-32743.0	14400.0	1.13	F16
P5412 4	805	12.07	1.090	-1.076	115.100	81.500	101.800	96.800	-28631.0	30000.0	1.25	F16
P541236	805	12.60	0.759	-0.630	112.800	75.100	96.800	88.500	0.0	0.0	0.00	F16
P54 757	806	7.95	1.386	-1.012	115.200	89.000	104.300	102.900	-33090.0	44700.0	1.40	F18
P54 810	806	8.17	1.701	-1.896	120.400	83.200	106.000	99.900	-38954.0	14200.0	1.10	F18
P54 828	806	8.47	0.240	-0.294	106.500	74.800	89.000	85.300	0.0	0.0	0.00	F18
P54 829	806	8.48	1.050	-0.613	114.800	80.700	101.600	96.300	-48404.0	31500.0	1.20	F14
P541022	806	10.37	1.534	-1.226	116.800	85.200	103.900	98.800	-30722.0	30000.0	1.30	F18
P541030	806	10.50	1.029	-0.827	113.300	81.300	102.500	96.300	0.0	0.0	0.00	F18
P541034	806	10.57	0.949	-0.787	112.900	78.100	99.500	93.400	-29641.0	45000.0	1.43	F18
P541043	806	10.72	1.207	-0.733	114.800	79.600	100.300	95.400	-20647.0	16500.0	1.27	F14
P541048	806	10.80	0.940	-0.958	116.100	80.100	101.300	95.400	0.0	13000.0	1.10	F18
P541148	806	11.80	2.419	-1.992	122.000	85.300	107.700	102.400	-30782.0	14000.0	1.20	F111D
P541152	806	11.87	0.341	-0.294	105.900	73.000	91.100	85.800	0.0	0.0	0.00	F111D
P5412 4	806	12.07	1.557	-0.984	116.100	84.000	104.400	100.200	-30568.0	45000.0	1.40	F111D
P5412 4	806	12.07	0.902	-0.742	114.600	77.500	100.000	93.200	-30568.0	45000.0	1.40	F111D
P5410 2	807	10.03	0.200	-0.432	108.300	73.400	88.300	84.400	0.0	0.0	0.00	F111D
P541050	807	10.83	1.630	-1.724	120.200	86.500	105.100	100.900	-38427.0	29900.0	1.25	F111D
P56 841	800	8.68	2.699	-2.877	122.900	92.900	110.700	108.100	0.0	16000.0	1.20	F4
P56 930	800	9.50	1.576	-1.416	116.300	83.400	106.000	99.500	0.0	0.0	0.00	F4
P56 748	803	7.80	1.257	-1.078	116.300	87.700	104.400	101.800	-18677.0	29200.0	1.24	F4
P56 758	803	7.97	1.630	-1.059	116.100	90.400	106.000	104.700	-16313.0	29300.0	1.29	F4
P56 8 803	8.13	0.308	0.308	-0.432	109.000	73.200	93.200	87.700	0.0	13000.0	1.10	F4
P561012	803	10.20	0.709	-0.817	114.300	79.000	99.000	94.400	-33924.0	13000.0	1.10	T38
P561030	803	10.50	1.997	-2.323	122.900	85.600	106.800	101.600	0.0	0.0	0.00	F4
P561043	803	10.72	0.834	-0.740	115.200	77.500	97.000	90.900	-15310.0	44400.0	1.37	F4
P561134	803	11.57	1.456	-0.871	115.400	83.500	105.300	100.900	0.0	0.0	0.00	F4
P56 719	804	7.32	0.298	-0.322	104.000	69.700	91.000	83.800	-20661.0	41400.0	1.17	AT38

P56 730 804	7.50	0.329	-0.310	103.100	69.500	92.500	83.600	-19031.0	32300.0	1.12	AT38
P56 730 804	7.50	0.132	-0.120	97.700	69.400	86.600	81.100	-19031.0	32300.0	1.12	AT38
P56 736 804	7.60	0.280	-0.247	103.800	73.800	91.200	85.600	-12985.0	16700.0	1.15	AT38
P56 756 804	7.93	1.186	-0.900	103.100	87.500	103.100	101.100	-11361.0	41400.0	1.38	F15
P56 8 4 804	8.07	1.442	-1.120	115.700	86.300	105.400	101.800	-17136.0	29700.0	1.20	F15
P56 810 804	8.17	1.562	-1.113	118.200	88.500	105.800	103.400	-16385.0	12500.0	1.10	F15
P56 914 804	9.23	1.423	-0.947	113.100	83.900	105.400	100.900	-22067.0	30300.0	1.20	AT38
P56 923 804	9.38	0.369	-0.341	105.600	73.400	91.900	85.000	-22467.0	14000.0	1.10	AT38
P56 952 804	9.87	0.507	-0.472	109.500	78.500	96.900	91.800	0.0	0.0	0.00	
P561046 804	10.77	2.323	-1.527	116.600	88.600	107.900	103.800	-15776.0	15200.0	1.13	F15
P5611 2 804	11.03	1.914	-1.322	116.900	89.000	106.300	104.600	-22917.0	31000.0	1.28	F15
P56111 804	11.18	0.167	-0.103	99.100	70.000	83.100	80.300	0.0	0.0	0.00	
P56111 804	11.18	1.473	-0.803	114.800	83.900	104.600	99.800	-2961.0	45000.0	1.42	F15
P561134 804	11.57	1.261	-1.001	115.300	80.100	101.800	94.900	-19159.0	45500.0	1.42	F15
P561139 804	11.65	0.482	-0.371	109.700	77.100	98.300	91.200	0.0	0.0	0.00	
P56 9 6 805	9.10	1.527	-1.431	116.700	88.800	105.100	102.400	-30625.0	29500.0	1.25	F16
P56 9 6 805	9.10	0.601	-0.740	111.000	76.100	98.000	92.100	-30625.0	29500.0	1.25	F16
P56 926 805	9.43	1.062	-0.839	115.400	83.800	102.200	98.500	-15838.0	64800.0	2.50	SR71
P56 933 805	9.55	0.839	-0.731	111.400	77.200	99.300	93.100	-22670.0	46700.0	1.43	F16
P56 944 805	9.73	2.636	-2.180	121.200	87.400	108.400	103.600	-25155.0	19300.0	1.17	F16
P561055 805	10.92	0.817	-0.672	114.300	78.300	98.900	93.000	0.0	0.0	0.00	
P5611 8 805	11.13	2.163	-1.710	120.900	90.100	108.400	105.900	-23050.0	32400.0	3.00	SR71
P561144 805	11.73	2.725	-2.394	122.200	88.500	109.800	105.400	-22183.0	14400.0	1.13	F16
P561154 805	11.90	1.111	-0.940	116.400	77.900	100.000	93.000	-16800.0	13800.0	1.12	F16
P5612 4 805	12.07	1.365	-1.132	115.000	86.900	104.600	102.000	-18071.0	30000.0	1.25	F16
P561235 805	12.58	1.111	-0.972	116.400	79.400	100.200	93.800	-10069.0	52000.0	1.70	SR71
P56 744 806	7.73	4.545	-3.716	127.400	97.800	115.500	113.700	-19397.0	30000.0	1.30	F18
P56 757 806	7.95	1.144	-1.156	116.200	86.100	103.500	100.300	-22530.0	44700.0	1.40	F18
P56 810 806	8.17	3.636	-2.988	123.700	98.800	113.800	113.800	-28394.0	14200.0	1.10	F18
P56 828 806	8.47	1.137	-0.653	115.800	87.400	104.000	101.600	0.0	0.0	0.00	
P561022 806	10.37	1.661	-1.414	117.500	93.800	106.600	106.900	-20162.0	30000.0	1.30	F18
P561030 806	10.50	0.707	-0.700	111.800	78.300	98.000	92.100	0.0	0.0	0.00	
P561034 806	10.57	0.778	-0.827	113.400	76.700	98.300	91.500	-19081.0	45000.0	1.43	F18
P561043 806	10.72	1.409	-1.513	119.800	83.800	104.200	99.500	-10087.0	16500.0	1.27	F14
P561048 806	10.80	2.196	-1.813	121.500	84.600	106.800	101.000	0.0	0.0	0.00	
P5612 4 806	12.07	1.550	-0.907	117.100	85.600	105.700	101.900	-20008.0	45000.0	1.40	F111D
P56 817 807	8.28	2.349	-1.637	120.600	85.300	106.600	100.200	0.0	0.0	0.00	
P5610 2 807	10.03	1.983	-1.485	120.100	91.500	108.500	106.000	0.0	0.0	0.00	
P561050 807	10.83	2.194	-1.924	120.700	91.700	109.000	106.900	-27867.0	29900.0	1.25	F111D
P58 841 800	8.68	3.676	-3.902	125.100	95.400	114.300	112.000	0.0	0.0	0.00	
P58 748 803	7.80	2.579	-2.020	120.900	94.900	110.200	109.400	-8117.0	29200.0	1.24	F4
P58 758 803	7.97	2.257	-1.870	120.100	91.700	109.400	107.100	-5753.0	29300.0	1.29	F4
P58 8 8 803	8.13	0.465	-0.334	107.300	71.800	92.400	85.100	0.0	0.0	0.00	
P581012 803	10.20	0.587	-0.890	113.700	77.300	98.000	92.100	-33364.0	13000.0	1.10	T38
P581029 803	10.48	3.871	-3.453	125.600	95.300	114.000	111.800	-12862.0	14400.0	1.10	F4
P581043 803	10.72	1.529	-0.956	118.300	82.000	105.100	98.800	-4750.0	44400.0	1.37	F4
P581134 803	11.57	2.067	-1.353	119.300	85.300	107.600	102.700	0.0	0.0	0.00	
P581238 803	12.63	0.284	-0.157	103.200	74.300	90.100	85.400	-5787.0	21200.0	1.05	T38
P58 719 804	7.32	0.479	-0.439	106.600	70.200	94.100	85.500	-10101.0	41400.0	1.17	AT38
P58 730 804	7.50	0.345	-0.291	104.200	71.300	92.300	85.100	-8471.0	32300.0	1.12	AT38
P58 730 804	7.50	0.108	-0.117	97.100	72.600	86.000	82.500	-8471.0	32300.0	1.12	AT38
P58 736 804	7.60	0.536	-0.477	108.300	76.600	98.100	91.800	-2425.0	16700.0	1.15	AT38
P58 756 804	7.93	1.132	-0.874	114.800	77.000	101.000	92.900	-801.0	41400.0	1.38	F15
P58 8 4 804	8.07	1.889	-1.426	118.000	90.900	107.600	104.900	-6576.0	29700.0	1.20	F15
P58 810 804	8.17	2.166	-2.163	122.100	88.400	107.000	101.900	-5825.0	12500.0	1.10	F15
P58 914 804	9.23	0.752	-0.747	110.100	79.000	99.500	95.000	-11507.0	30300.0	1.20	AT38
P58 923 804	9.38	0.566	-0.519	109.100	75.000	96.700	89.100	-11907.0	14000.0	1.10	AT38
P58 952 804	9.87	0.601	-0.435	106.900	80.100	97.000	93.900	0.0	0.0	0.00	
P581046 804	10.77	2.845	-2.431	122.300	90.300	111.100	106.800	-5216.0	15200.0	1.13	F15
P5811 2 804	11.03	2.053	-1.391	117.400	86.100	107.000	102.200	-12357.0	31000.0	1.28	F15

P581111	804	11.18	1.290	-1.081	116.000	84.200	102.500	97.800	7599.0	45000.0	1.42	F15
P581134	804	11.57	1.226	-0.886	113.800	84.400	102.700	99.200	-8599.0	45500.0	1.40	F15
P581139	804	11.65	0.646	-0.564	110.600	75.800	98.600	90.700	0.0	0.0	0.00	
P58 820	805	8.33	0.813	-0.655	115.100	85.500	104.400	101.100	0.0	0.0	0.00	
P58 9 6	805	9.10	1.851	-1.494	116.900	89.200	107.400	104.700	-20065.0	29500.0	1.25	F16
P58 9 6	805	9.10	0.705	-0.714	110.500	75.300	98.800	90.800	-20065.0	29500.0	1.25	F16
P58 926	805	9.43	1.513	-1.015	117.100	85.800	104.800	100.900	-5278.0	64800.0	2.50	SR71
P58 933	805	9.55	1.001	-0.923	113.500	82.700	101.700	97.600	-12110.0	46700.0	1.43	F16
P58 944	805	9.73	3.641	-2.640	121.400	100.700	113.400	114.600	-14595.0	19300.0	1.17	F16
P581055	805	10.92	0.904	-0.658	114.000	79.200	100.100	94.400	0.0	73000.0	3.00	SR71
P5811 8	805	11.13	2.638	-1.884	122.200	88.200	108.900	104.800	-12490.0	32400.0	1.23	SR71
P581144	805	11.73	4.447	-3.573	124.700	102.100	116.700	117.400	-11623.0	14400.0	1.13	F16
P581154	805	11.90	2.828	-2.241	121.800	90.000	111.100	107.000	-6240.0	13800.0	1.12	F16
P5812 4	805	12.07	1.517	-1.461	116.800	86.500	105.100	101.000	-7511.0	30000.0	1.25	F16
P581235	805	12.58	1.560	-1.095	117.200	86.100	105.300	101.900	491.0	52000.0	1.70	SR71
P58 744	806	7.73	1.910	-1.708	118.500	92.200	108.700	106.500	-8837.0	30000.0	1.30	F18
P58 757	806	7.95	1.231	-1.092	115.500	81.500	103.600	98.100	-11970.0	44700.0	1.40	F18
P58 810	806	8.17	4.771	-4.118	126.500	99.900	116.500	115.700	-17834.0	14200.0	1.10	F18
P58 829	806	8.48	0.752	-0.740	113.400	77.100	98.100	92.100	-27284.0	31500.0	1.20	F14
P581022	806	10.37	1.781	-1.811	119.000	89.300	107.500	103.900	-9602.0	30000.0	1.30	F18
P581030	806	10.50	0.824	-0.759	112.100	77.000	99.300	92.100	0.0	0.0	0.00	
P581034	806	10.57	1.034	-0.886	114.000	86.700	102.500	100.000	-8521.0	45000.0	1.43	F18
P581043	806	10.72	3.007	-2.206	121.600	95.900	111.800	111.000	473.0	16500.0	1.27	F14
P581048	806	10.80	3.347	-3.077	124.300	92.500	112.000	108.600	0.0	13000.0	1.10	F18
P581148	806	11.80	5.102	-4.050	127.200	101.800	117.300	117.300	-9662.0	14000.0	1.20	F111D
P5812 4	806	12.07	1.421	-1.165	116.900	82.200	103.900	98.400	-9448.0	45000.0	1.40	F111D
P58 817	807	8.28	1.743	-1.494	118.600	89.300	106.400	103.900	0.0	0.0	0.00	
P5810 2	807	10.03	1.496	-1.287	118.500	85.000	106.700	101.200	0.0	0.0	0.00	
P581050	807	10.83	2.800	-2.384	122.400	91.400	110.500	106.400	-17307.0	29900.0	1.25	F111D
P59 841	800	8.68	2.821	-3.328	123.500	96.400	112.200	111.700	0.0	16000.0	1.20	F4
P59 930	800	9.50	1.174	-1.301	114.300	87.600	105.700	102.800	0.0	0.0	0.00	
P59 748	803	7.80	2.062	-2.065	121.100	89.900	107.600	104.400	-2837.0	29200.0	1.24	F4
P59 758	803	7.97	2.739	-2.476	122.500	94.700	111.700	110.200	-473.0	29300.0	1.29	F4
P591030	803	10.50	7.326	-3.883	127.500	106.500	118.900	121.500	0.0	0.0	0.00	
P591043	803	10.72	1.287	-0.778	116.900	82.300	101.600	96.900	530.0	44400.0	1.37	F4
P591238	803	12.63	0.510	-0.449	109.900	78.800	99.300	91.400	-507.0	21200.0	1.05	T38
P59 719	804	7.32	0.552	-0.446	106.700	76.300	97.300	91.900	-4821.0	41400.0	1.17	AT38
P59 730	804	7.50	0.742	-0.630	109.200	77.300	99.600	93.400	-3191.0	32300.0	1.12	AT38
P59 736	804	7.60	0.723	-0.625	109.100	78.300	99.600	94.200	2855.0	16700.0	1.15	AT38
P59 756	804	7.93	0.954	-0.874	114.200	82.200	100.500	96.000	4479.0	41400.0	1.38	F15
P59 8 4	804	8.07	1.738	-1.470	118.600	90.500	106.800	105.000	-1296.0	29700.0	1.20	F15
P59 810	804	8.17	3.601	-2.915	124.400	95.400	113.300	111.700	-545.0	12500.0	1.10	F15
P59 914	804	9.23	0.855	-0.841	111.200	84.600	101.400	98.900	-6227.0	30300.0	1.20	AT38
P59 923	804	9.38	1.156	-0.618	111.100	80.700	102.600	97.100	-6627.0	14000.0	1.10	AT38
P59 952	804	9.87	0.442	-0.376	108.100	77.500	95.000	89.900	0.0	0.0	0.00	
P591046	804	10.77	3.561	-2.950	123.600	98.600	112.900	113.600	64.0	15200.0	1.13	F15
P5911 2	804	11.03	1.520	-1.268	116.900	86.400	105.200	101.300	-7077.0	31000.0	1.28	F15
P591111	804	11.18	1.910	-0.876	118.100	81.400	104.300	97.700	12879.0	45000.0	1.42	F15
P591134	804	11.57	1.076	-0.785	113.100	83.500	102.000	98.300	-3319.0	45500.0	1.40	F15
P59 820	805	0.33	0.500	-0.470	109.800	73.500	94.000	86.700	0.0	0.0	0.00	
P59 820	805	8.33	0.608	-0.583	111.700	80.000	99.800	95.000	0.0	0.0	0.00	
P59 9 6	805	9.10	1.405	-1.275	115.300	86.300	105.500	101.500	-14785.0	29500.0	1.25	F16
P59 9 6	805	9.10	0.329	-0.308	105.200	76.400	91.500	87.400	-14785.0	29500.0	1.25	F16
P59 926	805	9.43	1.130	-0.949	116.500	84.300	102.700	99.200	2.0	64800.0	2.50	SR71
P59 933	805	9.55	0.961	-0.850	113.500	80.000	100.900	94.700	-6830.0	46700.0	1.43	F16
P59 944	805	9.73	2.194	-2.241	120.000	90.500	109.100	105.500	-9315.0	19300.0	1.17	F16
P591055	805	10.92	0.895	-0.674	114.700	82.700	99.500	96.400	0.0	73000.0	3.00	SR71
P5911 8	805	11.13	2.986	-1.701	121.100	92.100	110.100	108.600	-7210.0	32400.0	1.23	SR71
P591144	805	11.73	3.223	-3.331	124.000	94.000	111.500	110.000	-6343.0	14400.0	1.13	F16
P5912 4	805	12.07	1.313	-1.127	115.300	85.000	103.500	100.700	-2231.0	30000.0	1.25	F16

P591235	805	1.405	-0.944	116.500	82.100	102.600	96.900	5771.0	52000.0	1.70	SR71
P59 744	806	1.926	-1.802	119.100	94.600	108.400	107.900	-3557.0	30000.0	1.30	F18
P59 810	806	1.186	-1.127	116.100	81.200	102.800	96.400	-6690.0	44700.0	1.40	F18
P59 828	806	4.111	-3.584	125.100	100.400	114.600	115.200	-12554.0	14200.0	1.10	F18
P591022	806	0.120	-0.068	97.100	74.500	81.900	83.000	0.0	0.0	0.00	
P591030	806	2.161	-1.809	119.400	90.800	108.500	104.900	-4322.0	30000.0	1.30	F18
P591034	806	0.768	-0.620	111.500	90.700	99.300	100.800	0.0	0.0	0.00	
P591043	806	1.266	-0.888	114.700	85.200	102.100	97.700	-3241.0	45000.0	1.43	F18
P591048	806	6.807	-4.324	127.200	100.600	118.100	117.800	5753.0	16500.0	1.27	F14
P591148	806	3.380	-3.204	124.600	93.700	112.400	109.800	0.0	13000.0	1.10	F18
P591187	807	6.288	-5.367	128.600	100.600	117.900	117.100	-4382.0	14000.0	1.20	F111D
P59 817	807	1.327	-1.416	117.600	83.600	103.600	99.100	0.0	0.0	0.00	
P5910 2	807	10.03	-1.273	116.500	87.700	104.300	101.900	0.0	0.0	0.00	
P591050	807	2.981	-2.084	121.600	91.500	110.500	108.200	-12027.0	29900.0	1.25	F111D
P61 841	800	2.826	-2.838	122.700	96.400	111.800	110.300	0.0	16000.0	1.20	F4
P61 930	800	1.005	-1.200	113.800	89.000	103.600	101.600	0.0	0.0	0.00	
P61 748	803	2.271	-2.055	121.000	95.300	109.200	109.400	7723.0	29200.0	1.24	F4
P61 758	803	2.868	-2.673	123.100	95.700	111.700	110.300	10087.0	29300.0	1.29	F4
P61 8 8	803	0.294	-0.357	107.100	71.900	88.900	84.400	0.0	13000.0	1.10	F4
P611012	803	0.237	-0.233	103.600	72.500	84.600	82.100	-7524.0	13000.0	1.10	T38
P611030	803	3.352	-3.519	125.900	95.800	112.600	111.800	0.0	0.0	0.00	
P611043	803	3.763	-2.281	123.900	91.600	110.400	108.000	11090.0	44400.0	1.37	F4
P611238	803	0.479	-0.327	106.300	78.000	97.200	90.800	10053.0	21200.0	1.05	T38
P61 719	804	0.451	-0.437	107.700	72.500	94.600	90.100	5739.0	41400.0	1.17	AT38
P61 736	804	0.770	-0.752	110.900	80.000	100.700	95.900	7369.0	32300.0	1.12	AT38
P61 756	804	1.409	-1.031	115.700	86.100	104.500	100.900	13415.0	16700.0	1.15	AT38
P61 756	804	0.329	-0.284	107.400	73.100	89.400	83.700	15039.0	41400.0	1.38	F15
P61 8 4	804	1.604	-1.315	118.500	81.700	104.300	97.600	15039.0	41400.0	1.38	F15
P61 810	804	3.493	-3.072	124.300	97.300	113.600	112.700	9264.0	29700.0	1.20	F15
P61 914	804	0.742	-0.893	112.000	75.400	99.400	93.900	10015.0	12500.0	1.10	F15
P61 923	804	0.787	-0.646	110.400	79.100	100.500	93.800	4333.0	30300.0	1.20	AT38
P61 952	804	0.366	-0.338	105.200	71.100	91.300	84.700	3933.0	14000.0	1.10	AT38
P611046	804	3.516	-3.354	124.400	97.000	114.100	112.900	10624.0	15200.0	1.13	F15
P6111 2	804	2.741	-1.435	117.900	90.800	108.800	105.900	3483.0	31000.0	1.28	F15
P61111 1	804	0.935	-0.902	114.100	77.400	99.900	93.000	23439.0	45000.0	1.42	F15
P611134	804	2.152	-1.001	115.200	93.800	107.000	107.500	7241.0	45500.0	1.40	F15
P61 820	805	0.524	-0.550	111.900	76.000	97.300	89.600	0.0	0.0	0.00	
P61 9 6	805	1.325	-1.334	116.300	85.400	104.900	100.600	-4225.0	29500.0	1.25	F16
P61 926	805	1.381	-1.003	116.600	86.500	104.100	101.400	10562.0	64800.0	2.50	SR71
P61 933	805	1.435	-1.038	114.400	83.800	104.300	99.800	3730.0	46700.0	1.43	F16
P61 944	805	2.422	-1.759	118.900	90.600	109.000	106.900	1245.0	19300.0	1.17	F16
P611055	805	0.902	-0.693	114.300	81.100	100.100	95.600	0.0	73000.0	3.00	SR71
P6111 8	805	2.751	-1.860	121.000	92.800	110.800	108.300	3350.0	32400.0	1.23	SR71
P611144	805	2.039	-2.156	120.500	87.400	107.500	103.200	4217.0	14400.0	1.13	F16
P611154	805	2.657	-3.190	123.000	95.500	111.100	110.500	9600.0	13800.0	1.12	F16
P6112 4	805	1.456	-1.327	116.300	88.200	105.700	102.900	8329.0	30000.0	1.25	F16
P611235	805	1.468	-1.144	117.300	84.100	105.500	100.100	16331.0	52000.0	1.70	SR71
P61 744	806	1.630	-1.701	118.400	90.500	106.800	104.500	7003.0	30000.0	1.30	F18
P61 757	806	1.062	-1.069	115.100	83.900	102.500	98.800	3870.0	44700.0	1.40	F18
P61 810	806	2.236	-2.431	122.100	93.100	108.900	106.700	-1994.0	14200.0	1.10	F18
P611022	806	2.603	-1.959	119.800	94.600	110.800	109.700	6238.0	30000.0	1.30	F18
P611030	806	0.606	-0.583	110.400	72.700	94.500	86.300	0.0	0.0	0.00	
P611034	806	0.806	-0.817	112.900	83.300	99.600	96.900	7319.0	45000.0	1.43	F18
P611043	806	5.128	-67.283	130.500	127.400	128.300	136.900	16313.0	16500.0	1.27	F14
P611048	806	4.191	-3.984	126.000	104.500	115.700	117.900	0.0	13000.0	1.10	F18
P611148	806	0.677	-4.343	126.600	103.100	116.800	118.200	6178.0	14000.0	1.20	F111D
P611152	806	0.291	-0.244	104.800	76.000	89.500	86.600	0.0	0.0	0.00	
P6112 4	806	2.074	-1.313	118.300	86.100	107.100	102.100	6392.0	45000.0	1.40	F111D
P61 817	807	2.032	-1.748	119.300	91.400	108.300	106.400	0.0	0.0	0.00	

P6110 2 807	10.03	1.473	-1.416	119.200	87.000	106.200	101.200	0.0	0.0	0.00	
P611050 807	10.83	2.692	-1.785	119.800	94.500	108.500	109.300	29900.0	0.0	1.25	FillD
P611115 807	11.25	1.726	-1.712	121.000	85.400	105.700	100.700	0.0	0.0	0.00	
P62 841 800	8.68	2.300	-2.203	120.700	96.100	110.200	110.300	0.0	16000.0	0.00	F4
P62 748 803	7.80	2.847	-1.748	119.400	93.200	108.600	107.600	13003.0	29200.0	1.24	F4
P62 8 803	8.13	0.280	-0.322	106.000	70.800	90.000	81.900	15367.0	29300.0	1.29	F4
P621012 803	10.20	0.251	-0.251	104.900	72.900	86.600	82.900	-2244.0	13000.0	1.10	F4
P621030 803	10.50	2.744	-2.614	124.100	93.500	110.200	109.100	0.0	0.0	1.10	T38
P621238 803	12.63	0.775	-0.759	113.000	76.300	100.200	91.700	15333.0	21200.0	0.00	T38
P62 719 804	7.32	0.453	-0.432	106.100	69.800	94.500	85.200	11019.0	41400.0	1.17	AT38
P62 730 804	7.50	0.388	-0.357	105.400	70.600	91.900	84.000	12649.0	32300.0	1.12	AT38
P62 736 804	7.60	0.949	-0.747	112.300	75.900	102.000	103.000	18695.0	16700.0	1.15	AT38
P62 756 804	7.93	1.536	-1.059	115.800	88.700	104.700	103.000	20319.0	41400.0	1.38	F15
P62 756 804	7.93	0.773	-0.444	110.600	76.200	97.400	91.000	20319.0	41400.0	1.38	F15
P62 8 4 804	8.07	2.229	-1.524	118.600	91.900	108.800	106.900	14544.0	12500.0	1.20	F15
P62 810 804	8.17	3.561	-3.195	125.000	97.300	113.200	112.700	15295.0	12500.0	1.10	F15
P62 914 804	9.23	1.003	-0.848	111.800	87.600	103.200	101.500	9613.0	30300.0	1.20	AT38
P62 923 804	9.38	0.489	-0.442	106.800	73.500	95.700	88.000	9213.0	14000.0	1.10	AT38
P62 952 804	9.87	0.554	-0.406	106.300	73.500	96.000	89.700	0.0	0.0	0.00	
P621046 804	10.77	4.517	-3.138	123.900	101.900	114.300	116.800	15904.0	15200.0	1.13	F15
P6211 2 804	11.03	2.084	-1.463	118.100	86.200	107.900	103.400	8763.0	31000.0	1.28	F15
P621111 804	11.18	0.930	-0.869	113.800	80.900	100.100	95.000	28719.0	45000.0	1.42	F15
P621134 804	11.57	1.135	-0.907	113.900	80.600	102.100	95.900	12521.0	45500.0	1.40	F15
P62 820 805	8.33	0.604	-0.512	111.500	76.200	98.900	91.900	0.0	0.0	0.00	
P62 9 6 805	9.10	1.137	-0.963	114.400	84.400	103.600	100.100	1055.0	29500.0	1.25	F16
P62 9 6 805	9.10	0.721	-0.482	109.400	77.200	98.800	91.800	1055.0	29500.0	1.25	F16
P62 926 805	9.43	1.088	-0.916	116.000	83.200	101.800	96.900	15842.0	64800.0	2.50	SR71
P62 933 805	9.55	0.991	-0.980	114.400	83.700	101.500	97.600	9010.0	46700.0	1.43	F16
P62 944 805	9.73	4.693	-2.325	122.600	95.800	112.900	111.000	6525.0	19300.0	1.17	F16
P621055 805	10.92	0.740	-0.695	114.300	75.800	96.900	90.000	0.0	73000.0	3.00	SR71
P6211 8 805	11.13	4.160	-2.267	123.800	100.700	115.100	115.600	8630.0	32400.0	1.23	SR71
P621144 805	11.73	5.191	-1.738	120.300	97.400	114.100	113.600	9497.0	14400.0	1.13	F16
P621154 805	11.90	1.823	-1.851	120.300	89.100	107.500	104.400	14880.0	13800.0	1.12	F16
P6212 4 805	12.07	1.943	-1.656	118.000	86.500	107.400	102.800	13609.0	30000.0	1.25	F16
P621235 805	12.58	1.318	-1.092	117.000	81.200	104.000	97.300	21611.0	52000.0	1.70	SR71
P62 744 806	7.73	1.635	-1.628	118.200	91.600	107.000	105.500	12283.0	30000.0	1.30	F18
P62 757 806	7.95	1.088	-1.008	118.400	85.900	102.900	100.200	9150.0	44700.0	1.40	F18
P62 810 806	8.17	1.917	-1.938	120.800	87.600	107.100	102.300	3286.0	14200.0	1.10	F18
P621022 806	10.37	2.610	-1.574	118.900	92.000	109.800	107.300	11518.0	30000.0	1.30	F18
P621030 806	10.50	0.510	-0.500	108.900	74.100	94.000	88.100	0.0	0.0	0.00	
P621043 806	10.72	0.947	-0.820	113.200	86.600	101.600	100.500	12599.0	45000.0	1.43	F18
P621048 806	10.80	6.319	-4.310	126.700	103.900	118.600	119.400	21593.0	16500.0	1.27	F14
P621148 806	11.80	2.941	-3.211	124.500	92.600	111.700	108.900	0.0	13000.0	1.10	F18
P621152 806	11.80	3.629	-4.195	126.900	94.200	112.300	109.900	11458.0	14000.0	1.20	FillD
P6212 4 806	11.87	0.216	-0.209	102.700	73.900	88.500	85.100	0.0	0.0	0.00	
P62 816 807	12.07	1.973	-1.327	118.900	85.600	106.300	102.000	11672.0	45000.0	1.40	FillD
P62 13 807	8.27	3.197	-1.846	120.200	99.000	112.100	112.800	0.0	0.0	0.00	
P6210 3 807	10.05	1.264	-1.174	119.600	84.100	105.500	99.800	0.0	0.0	0.00	
P621050 807	10.83	2.596	-1.957	121.700	95.700	110.300	110.700	3813.0	29900.0	1.25	FillD
P621115 807	11.25	2.476	-1.369	119.800	87.700	109.400	104.000	0.0	0.0	0.00	
P64 841 800	8.68	1.640	-1.762	119.400	83.200	107.100	100.600	0.0	16000.0	1.20	F4
P64 931 800	9.52	0.925	-0.980	113.000	83.800	102.000	98.400	0.0	0.0	0.00	
P64 748 803	7.80	1.029	-1.010	117.200	83.500	103.300	97.900	23563.0	29200.0	1.24	F4
P64 758 803	7.97	1.445	-1.306	117.300	84.600	105.100	100.400	25927.0	29300.0	1.29	F4
P641030 803	10.50	1.184	-1.132	117.600	79.500	99.700	93.200	0.0	0.0	0.00	
P64 719 804	7.32	0.345	-0.322	103.400	73.800	92.800	88.300	21575.0	41400.0	1.17	AT38
P64 730 804	7.50	0.383	-0.315	103.400	71.400	94.200	87.400	23209.0	32300.0	1.12	AT38
P64 736 804	7.60	0.688	-0.543	108.400	75.700	99.200	92.700	29255.0	16700.0	1.15	AT38
P64 756 804	7.93	1.374	-1.034	115.300	89.000	104.500	102.700	30879.0	41400.0	1.38	F15

P64 8 4 804	8.07	1.297	-1.092	115.800	86.900	104.100	101.300	25104.0	29700.0	1.20	F15
P64 810 804	8.17	2.535	-2.086	122.100	87.500	108.900	103.000	25855.0	12500.0	1.10	F15
P64 914 804	9.23	0.423	-0.310	103.900	73.700	93.600	86.900	20173.0	30300.0	1.20	AT38
P64 923 804	9.38	0.190	-0.176	99.500	69.400	86.500	81.400	19773.0	14000.0	1.10	AT38
P64 952 804	9.87	0.319	-0.334	104.500	69.500	91.500	83.800	0.0	0.0	0.00	
P641046 804	10.77	3.096	-2.055	120.600	91.500	111.000	108.800	26464.0	15200.0	1.13	F15
P6411 2 804	11.03	1.360	-1.076	115.400	86.800	104.400	101.900	19323.0	31000.0	1.28	F15
P64111 804	11.18	0.879	-0.820	113.200	80.000	100.000	94.800	39279.0	45000.0	1.42	F15
P641134 804	11.57	0.890	-0.775	112.900	76.300	99.300	91.400	23081.0	45500.0	1.40	F15
P64 9 6 805	9.10	0.672	-0.632	112.000	85.500	97.500	96.000	11615.0	29500.0	1.25	F16
P64 9 7 805	9.12	0.348	-0.171	104.800	73.900	90.500	83.600	0.0	0.0	0.00	
P64 926 805	9.43	0.963	-0.883	115.400	81.700	100.800	96.000	26402.0	64800.0	2.50	SR71
P64 933 805	9.55	1.275	-0.817	113.200	83.600	103.000	99.100	19570.0	46700.0	1.43	F16
P64 944 805	9.73	1.640	-1.231	116.300	90.400	105.700	103.300	17085.0	19300.0	1.17	F16
P641055 805	10.92	0.886	-0.695	114.200	79.500	99.400	94.800	0.0	73000.0	3.00	SR71
P6411 8 805	11.13	2.751	-1.553	120.200	89.500	110.300	106.800	19190.0	32400.0	1.23	SR71
P641144 805	11.73	1.304	-1.271	117.300	81.400	104.100	98.500	20057.0	14400.0	1.13	F16
P641154 805	11.90	2.060	-1.438	119.300	85.600	109.200	102.900	25440.0	13800.0	1.12	F16
P6412 4 805	12.07	1.226	-1.050	114.300	86.400	103.400	100.200	24169.0	30000.0	1.25	F16
P641235 805	12.58	1.036	-0.987	115.700	81.900	102.200	97.500	32171.0	52000.0	1.70	SR71
P64 744 806	7.73	1.355	-1.228	115.800	90.400	105.300	103.700	22843.0	30000.0	1.30	F18
P64 757 806	7.95	0.972	-0.871	113.700	81.200	101.800	96.800	19710.0	44700.0	1.40	F18
P64 810 806	8.17	1.048	-0.742	114.500	77.700	99.800	93.200	13846.0	14200.0	1.10	F18
P641022 806	10.37	1.442	-1.024	115.200	85.300	103.800	100.900	22078.0	30000.0	1.30	F18
P641030 806	10.50	0.918	-0.590	114.200	78.900	100.100	94.200	0.0	0.0	0.00	
P641034 806	10.57	0.916	-0.794	112.700	83.000	99.700	96.900	23159.0	45000.0	1.43	F18
P641043 806	10.72	3.888	-2.762	124.000	91.900	112.400	108.700	32153.0	16500.0	1.27	F14
P641048 806	10.80	1.658	-2.213	121.200	84.300	106.500	100.800	0.0	13000.0	1.10	F18
P641148 806	11.80	2.859	-2.661	122.900	93.000	111.500	108.900	22018.0	14000.0	1.20	F111D
P641152 806	11.87	0.221	-0.204	102.600	72.900	85.900	82.800	0.0	0.0	0.00	
P6412 4 806	12.07	0.982	-0.723	113.600	81.700	100.800	96.700	22232.0	45000.0	1.40	F111D
P64 816 807	8.27	2.387	-1.806	119.900	89.500	109.100	105.300	0.0	0.0	0.00	
P64 816 807	8.27	0.202	-0.146	101.700	78.100	86.000	87.000	0.0	0.0	0.00	
P641050 807	10.83	2.011	-1.506	119.600	92.000	106.900	104.900	14373.0	29900.0	1.25	F111D
P641115 807	11.25	2.997	-1.475	120.400	95.400	111.400	110.100	0.0	0.0	0.00	
P66 758 803	7.97	0.942	-0.709	114.500	79.800	101.400	94.800	36487.0	29300.0	1.29	F4
P66 8 8 803	8.13	0.345	-0.291	110.000	78.900	92.600	89.200	0.0	13000.0	1.10	F4
P661043 803	10.72	0.167	-0.181	106.300	78.500	85.900	87.800	37490.0	44400.0	1.37	F4
P66 719 804	7.32	0.312	-0.261	102.500	69.300	91.800	84.400	32139.0	41400.0	1.17	AT38
P66 730 804	7.50	0.272	-0.233	103.000	73.400	91.000	84.600	33769.0	32300.0	1.12	AT38
P66 736 804	7.60	0.439	-0.331	104.700	72.900	94.500	87.300	39815.0	16700.0	1.15	AT38
P66 756 804	7.93	0.853	-0.796	113.600	80.800	99.500	95.500	41439.0	41400.0	1.38	F15
P66 8 4 804	8.07	1.788	-1.179	116.300	91.200	106.600	105.600	35664.0	29700.0	1.20	F15
P66 810 804	8.17	1.017	-1.001	116.000	79.500	98.700	92.600	36415.0	12500.0	1.10	F15
P66 914 804	9.23	0.423	-0.420	106.700	76.400	94.700	89.700	30733.0	30300.0	1.20	AT38
P66 923 804	9.38	0.418	-0.303	106.600	78.200	92.500	88.500	30333.0	14000.0	1.10	AT38
P66 953 804	9.88	0.230	-0.211	105.700	78.500	88.300	87.700	0.0	0.0	0.00	
P661046 804	10.77	2.161	-1.950	121.300	88.500	108.300	105.400	37024.0	15200.0	1.13	F15
P6611 2 804	11.03	1.203	-1.001	116.100	81.000	101.700	96.100	29883.0	31000.0	1.28	F15
P66111 804	11.18	1.024	-0.796	114.100	81.900	99.300	94.600	49839.0	45000.0	1.42	F15
P66 820 805	8.33	0.716	-0.766	113.800	74.000	98.900	89.100	0.0	0.0	0.00	
P66 9 6 805	9.10	0.911	-0.742	112.100	80.100	101.000	94.000	22175.0	29500.0	1.25	F16
P66 926 805	9.43	0.921	-0.796	115.000	83.900	100.600	97.900	36962.0	64800.0	2.50	SR71
P66 934 805	9.57	0.921	-0.618	111.600	83.200	100.600	97.900	0.0	0.0	0.00	
P66 945 805	9.75	1.048	-0.749	112.200	82.400	102.000	98.100	0.0	0.0	0.00	
P661055 805	10.92	0.853	-0.644	114.300	83.300	99.500	96.300	0.0	73000.0	3.00	SR71
P6611 8 805	11.13	1.917	-1.186	117.900	84.200	107.000	101.000	29750.0	32400.0	1.23	SR71
P661144 805	11.73	0.444	-0.268	109.900	78.300	94.800	89.400	30617.0	14400.0	1.13	F16
P6612 4 805	12.07	2.145	-1.254	118.000	85.900	105.800	101.400	34729.0	30000.0	1.25	F16
P661235 805	12.58	1.358	-1.024	116.900	89.400	105.000	103.900	42731.0	52000.0	1.70	SR71

P661416 805	14.27	0.963	-0.829	115.100	84.500	100.800	98.700	0.0	0.00	
P66 744 806	7.73	1.210	-1.059	114.600	84.300	104.100	99.600	30000.0	1.30	F18
P66 757 806	7.95	0.930	-0.681	111.700	82.800	100.800	97.400	44700.0	1.40	F18
P66 810 806	8.17	0.864	-0.402	111.600	80.200	100.100	94.600	14200.0	1.10	F18
P661022 806	10.37	1.341	-1.045	115.800	85.700	103.200	100.000	30000.0	1.30	F18
P661034 806	10.57	0.937	-0.792	114.200	80.000	100.200	93.800	45000.0	1.43	F18
P661148 806	10.72	2.560	-1.785	119.400	94.200	110.500	109.600	16500.0	1.27	F14
P6612 4 806	11.80	1.402	-0.982	117.600	80.900	103.700	96.800	14000.0	1.20	F111D
P6612 4 806	12.07	1.240	-0.813	114.800	82.000	101.300	96.200	45000.0	1.40	F111D
P66 816 807	12.07	1.045	-0.949	117.600	79.500	97.600	92.400	45000.0	1.40	F111D
P661050 807	8.27	2.401	-1.520	120.500	88.200	108.500	103.900	0.0	0.00	
P661115 807	10.83	1.548	-1.224	118.000	86.100	104.800	100.800	29900.0	1.25	F111D
P661119 807	11.25	1.527	-1.116	118.400	85.800	105.700	101.400	0.0	0.00	
	11.32	0.174	-0.052	104.000	78.400	83.000	86.800	0.0	0.00	

Augmented BOOMFILE Database (Rise Times)

FILE NAME	Time (Hrs)	Pmax (PSF)	Pmin (PSF)	t50 (ms)	t75 (ms)	t90 (ms)	t100 (ms)	Sideline (Feet)	Altitude (Feet)	Mach #	Aircraft
P00 841 800	6.68	3.491	-3.235	0.500	0.625	1.375	2.125	0.0	16000.0	1.20	F4
P00 748 803	7.80	2.682	-2.008	0.625	1.125	1.875	4.125	1387.0	29200.0	1.24	F4
P00 758 803	7.97	2.929	-2.722	0.250	0.375	1.125	4.875	3751.0	29300.0	1.29	F4
P001029 803	10.48	13.335	-3.232	6.875	7.000	11.750	13.000	-3358.0	14400.0	1.10	F4
P001043 803	10.72	1.764	-1.536	1.250	1.750	11.750	13.000	4754.0	44400.0	1.37	F4
P001238 803	12.63	0.726	-0.597	9.250	15.875	17.750	21.625	3717.0	21200.0	1.05	T38
P00 719 804	7.32	0.493	-0.453	3.750	3.750	5.500	7.750	-597.0	41400.0	1.17	AT38
P00 730 804	7.50	0.529	-0.672	2.125	4.875	6.750	11.500	1033.0	32300.0	1.12	AT38
P00 736 804	7.60	0.613	-0.646	2.000	4.250	8.250	11.000	7079.0	16700.0	1.15	AT38
P00 756 804	7.93	1.489	-1.095	0.500	1.125	1.375	2.250	8703.0	41400.0	1.38	F15
P00 756 804	7.93	0.207	-0.218	3.875	9.625	13.750	24.000	8703.0	41400.0	1.38	F15
P00 8 4 804	8.07	1.905	-1.496	0.875	1.125	1.125	5.250	2928.0	29700.0	1.20	F15
P00 810 804	8.17	3.507	-3.260	0.250	0.750	1.250	1.375	3679.0	12500.0	1.10	F15
P00 914 804	9.23	0.747	-0.817	0.500	1.750	3.750	6.250	-2003.0	30300.0	1.20	AT38
P00 923 804	9.38	1.160	-0.597	5.875	8.000	8.125	9.375	-2403.0	14000.0	1.10	AT38
P00 952 804	9.87	0.482	-0.399	0.875	2.625	7.125	10.250	0.0	0.0	0.00	
P001046 804	10.77	5.851	-3.044	0.250	0.375	0.750	0.875	4288.0	15200.0	1.13	F15
P0011 2 804	11.03	2.168	-1.571	1.875	2.500	2.250	3.125	-2853.0	31000.0	1.28	F15
P00111 804	11.18	0.982	-0.808	1.625	5.125	9.250	18.250	17103.0	45000.0	1.42	F15
P001134 804	11.57	1.924	-0.972	1.375	1.625	1.625	2.500	905.0	45500.0	1.40	F15
P001139 804	11.65	1.593	-1.071	7.125	19.500	19.375	23.625	0.0	0.0	0.00	
P00 820 805	8.33	0.895	-0.545	2.250	2.625	3.000	4.500	0.0	0.0	0.00	
P00 820 805	8.33	0.754	-0.648	2.500	3.500	4.250	5.750	0.0	0.0	0.00	
P00 9 6 805	9.10	1.081	-0.925	2.250	3.875	5.500	10.500	-10561.0	29500.0	1.25	F16
P00 9 6 805	9.10	0.705	-0.491	1.625	2.500	5.000	7.500	-10561.0	29500.0	1.25	F16
P00 926 805	9.43	1.205	-0.958	0.250	0.750	1.375	1.500	4226.0	64800.0	2.50	SR71
P00 933 805	9.55	0.879	-0.871	1.000	1.750	6.000	8.000	-2606.0	46700.0	1.43	F16
P00 944 805	9.73	2.809	-2.448	0.625	1.250	5.000	6.625	-5091.0	19300.0	1.17	F16
P001055 805	10.92	0.827	-0.698	1.500	3.875	8.375	20.500	0.0	73000.0	3.00	SR71
P0011 8 805	11.13	2.262	-1.773	0.375	3.250	3.625	4.000	-2986.0	32400.0	1.23	SR71
P001144 805	11.73	5.628	-3.328	3.625	4.000	4.125	5.000	-2119.0	14400.0	1.13	F16
P001154 805	11.90	3.772	-3.552	1.000	2.000	4.500	7.375	3264.0	13800.0	1.12	F16
P0012 4 805	12.07	1.900	-1.388	0.500	1.125	2.375	2.875	1993.0	30000.0	1.25	F16
P001235 805	12.58	1.330	-0.980	0.625	1.000	1.000	1.250	9995.0	52000.0	1.70	SR71
P00 744 806	7.73	1.943	-1.757	0.250	0.625	1.250	2.125	667.0	30000.0	1.30	F18
P00 757 806	7.95	1.454	-1.170	0.375	0.750	1.375	2.250	-2466.0	44700.0	1.40	F18
P00 810 806	8.17	3.848	-3.009	0.250	0.625	1.750	3.625	-8330.0	14200.0	1.10	F18
P001022 806	10.37	1.849	-1.849	0.250	0.375	0.625	1.250	-98.0	30000.0	1.30	F18
P001030 806	10.50	0.719	-0.674	1.125	2.625	3.750	6.125	0.0	0.0	0.00	
P001034 806	10.57	1.221	-0.963	0.375	0.500	0.875	3.375	983.0	45000.0	1.43	F18
P001043 806	10.72	4.024	-3.589	0.375	0.750	1.500	5.125	9977.0	16500.0	1.27	F14
P001048 806	10.80	5.912	-4.153	0.125	0.250	0.375	3.250	0.0	13000.0	1.10	F18
P001148 806	11.80	8.358	-5.339	0.250	0.500	0.750	1.250	-158.0	14000.0	1.20	F111D
P0012 4 806	12.07	1.473	-1.132	1.750	7.875	9.875	11.375	56.0	45000.0	1.40	F111D
P00 817 807	8.28	1.971	-1.442	2.500	3.875	5.375	6.125	0.0	0.0	0.00	
P0010 2 807	10.03	0.982	-1.158	0.500	1.000	3.125	5.250	0.0	0.0	0.00	
P001050 807	10.83	2.300	-1.964	0.250	0.375	0.500	0.625	-7803.0	29900.0	1.25	F111D
P01 841 800	8.68	3.216	-3.230	0.125	0.625	0.750	2.250	0.0	16000.0	1.20	F4
P01 748 803	7.80	2.246	-2.159	0.250	0.750	1.875	3.000	1287.0	29200.0	1.24	F4
P01 748 803	7.97	3.143	-2.657	0.250	0.750	1.000	2.625	3651.0	29300.0	1.29	F4

P011029 803	10.48	4.862	-3.873	0.750	1.250	1.500	1.750	-3458.0	14400.0	1.10	F4
P011043 803	10.72	1.762	-1.520	1.125	9.125	9.750	10.625	4654.0	44400.0	1.37	F4
P01 719 804	7.32	0.467	-0.451	2.125	3.500	5.750	9.625	-697.0	41400.0	1.17	AT38
P01 730 804	7.50	0.496	-0.627	2.500	5.750	7.500	11.875	933.0	32300.0	1.12	AT38
P01 736 804	7.60	0.578	-0.620	2.375	4.750	8.250	11.875	6979.0	16700.0	1.15	AT38
P01 756 804	7.93	1.369	-1.024	0.500	0.875	1.375	2.625	8603.0	41400.0	1.38	F15
P01 756 804	7.93	0.193	-0.218	3.875	9.250	12.375	14.875	8603.0	41400.0	1.38	F15
P01 8 4 804	8.07	1.889	-1.423	1.125	1.750	1.875	3.125	2828.0	29700.0	1.20	F15
P01 810 804	8.17	3.277	-3.169	0.250	0.875	1.875	7.125	3579.0	12500.0	1.10	F15
P01 914 804	9.23	0.695	-0.799	0.500	1.750	3.500	6.250	-2103.0	30300.0	1.20	AT38
P01 923 804	9.38	1.097	-0.590	5.250	7.750	8.000	9.250	-2503.0	14000.0	1.10	AT38
P01 952 804	9.87	0.472	-0.411	2.000	5.125	9.750	12.250	0.0	0.00	0.00	
P011046 804	10.77	8.055	-3.056	0.250	0.375	0.750	0.875	4188.0	15200.0	1.13	F15
P0111 2 804	11.03	1.903	-1.489	1.375	1.625	1.500	2.375	-2953.0	31000.0	1.28	F15
P01111 804	11.18	1.017	-0.834	1.750	3.000	3.375	4.125	17003.0	45000.0	1.42	F15
P011134 804	11.57	1.548	-0.914	1.750	2.750	3.625	4.500	805.0	45500.0	1.40	F15
P011139 804	11.65	1.426	-1.062	10.875	21.625	21.750	24.250	0.0	0.00	0.00	
P01 820 805	8.33	0.810	-0.531	2.000	2.500	2.750	3.875	0.0	0.00	0.00	
P01 820 805	8.33	0.712	-0.639	2.375	3.000	3.500	5.875	0.0	0.00	0.00	
P01 9 6 805	9.10	0.998	-0.874	2.750	6.000	6.500	13.375	-10661.0	29500.0	1.25	F16
P01 9 6 805	9.10	0.674	-0.503	1.125	2.125	6.375	7.750	-10661.0	29500.0	1.25	F16
P01 926 805	9.43	1.212	-0.975	0.250	1.250	2.875	4.375	4126.0	64800.0	2.50	SR71
P01 933 805	9.55	0.961	-0.864	0.250	0.750	3.125	6.125	-2706.0	46700.0	1.43	F16
P01 944 805	9.73	2.626	-2.325	1.125	2.000	6.000	7.250	-5191.0	19300.0	1.17	F16
P011055 805	10.92	0.778	-0.705	1.125	5.375	8.750	11.500	0.0	73000.0	3.00	SR71
P0111 8 805	11.13	1.863	-1.752	0.375	1.000	4.125	5.500	-3086.0	32400.0	1.23	SR71
P011144 805	11.73	5.297	-3.110	4.000	4.125	3.500	4.750	-2219.0	14400.0	1.13	F16
P011154 805	11.90	3.819	-3.528	0.125	0.250	0.750	0.875	3164.0	13800.0	1.12	F16
P0112 4 805	12.07	2.398	-1.341	1.250	2.250	2.125	2.875	1893.0	30900.0	1.25	F16
P011235 805	12.58	1.275	-0.977	0.625	1.125	1.875	2.750	9895.0	52000.0	1.70	SR71
P01 744 806	7.73	1.945	-1.759	0.250	0.375	0.875	2.375	567.0	30000.0	1.30	F18
P01 757 806	7.95	1.414	-1.170	0.250	0.875	1.625	2.125	-2566.0	44700.0	1.40	F18
P01 810 806	8.17	3.577	-2.995	0.375	1.625	2.625	3.375	-8430.0	14200.0	1.10	F18
P011022 806	10.37	1.788	-1.830	0.125	0.250	0.750	5.875	-198.0	30000.0	1.30	F18
P011030 806	10.50	0.716	-0.700	1.500	2.500	3.875	5.250	0.0	0.00	0.00	
P011034 806	10.57	1.344	-0.937	0.375	0.625	0.750	1.375	883.0	45000.0	1.43	F18
P011043 806	10.72	3.986	-3.538	0.375	0.875	2.000	4.000	9877.0	16500.0	1.27	F14
P011048 806	10.80	6.591	-4.050	0.250	0.375	0.750	0.875	0.0	13000.0	1.10	F18
P011148 806	11.80	9.856	-5.431	0.250	0.375	0.875	1.375	-258.0	14000.0	1.20	F111D
P011152 806	11.87	0.218	-0.221	3.125	10.125	13.000	16.250	0.0	0.00	0.00	
P0112 4 806	12.07	1.710	-1.090	3.000	9.875	11.125	13.000	-44.0	45000.0	1.40	F111D
P01 817 807	8.28	1.731	-1.452	1.250	2.125	3.125	3.750	0.0	0.00	0.00	
P0110 2 807	10.03	1.137	-1.207	0.875	1.125	5.250	7.875	0.0	0.00	0.00	
P011050 807	10.83	2.147	-1.931	0.250	0.375	0.500	0.625	-7903.0	29900.0	1.25	F111D
P489999 803	100.65	1.745	-1.898	2.000	3.500	12.250	15.125	0.0	0.00	0.00	
P48 719 804	7.32	0.359	-0.301	1.375	3.000	4.625	6.625	-62901.0	41400.0	1.17	AT38
P48 757 804	7.95	0.174	-0.204	4.375	7.625	14.250	31.875	0.0	0.00	0.00	
P48 8 4 804	8.07	0.451	-0.341	2.500	4.425	6.750	8.500	-59376.0	29700.0	1.20	F15
P48 914 804	9.23	0.188	-0.160	2.500	5.375	7.000	8.625	-64307.0	30300.0	1.20	AT38
P48 952 804	9.87	0.639	-0.437	1.000	1.375	1.750	3.500	0.0	0.00	0.00	
P4811 2 804	11.03	0.933	-0.646	4.875	7.625	8.125	11.875	-65157.0	31000.0	1.28	F15
P481134 804	11.57	0.655	-0.456	11.625	13.750	14.250	25.625	-61399.0	45500.0	1.40	F15
P48 820 805	8.33	0.735	-0.615	1.125	2.625	4.000	8.750	0.0	0.00	0.00	
P48 9 6 805	9.10	1.123	-0.883	2.625	3.750	6.500	8.375	-72865.0	29500.0	1.25	F16
P48 9 6 805	9.10	0.738	-0.810	0.250	1.000	1.875	3.125	-72865.0	29500.0	1.25	F16
P48 926 805	9.43	0.695	-0.597	1.125	2.625	3.500	6.000	-58078.0	64800.0	2.50	SR71
P48 934 805	9.57	0.261	-0.190	7.875	12.000	14.500	17.250	0.0	0.00	0.00	
P48 953 805	9.88	0.381	-0.493	2.250	3.875	5.000	6.375	0.0	0.00	0.00	
P481055 805	10.92	0.679	-0.472	0.875	1.875	2.250	8.625	0.0	73000.0	3.00	SR71
P48 829 806	8.48	0.684	-0.420	2.500	4.750	14.875	17.750	-8084.0	31500.0	1.20	F14

P48 845 806	8.75	1.839	-1.860	0.750	1.500	2.250	3.750	0.00	0.00	0.00	0.00	F111D
P481023 806	10.38	0.568	-0.472	8.125	10.750	11.625	13.500	0.0	0.0	0.0	0.0	F4
P481030 806	10.50	0.745	-0.651	1.250	2.125	2.500	8.250	0.0	0.0	0.0	0.0	F4
P481152 806	11.87	0.392	-0.256	7.625	10.500	13.250	15.125	0.0	0.0	0.0	0.0	F4
P48 745 807	7.75	2.013	-1.811	0.625	1.125	2.375	10.875	0.0	0.0	0.0	0.0	F4
P481050 807	10.83	0.902	-0.707	18.625	33.125	36.500	46.250	-70107.0	29900.0	29900.0	29900.0	F111D
P50 841 800	8.68	0.721	-0.714	37.000	42.500	37.625	28.875	0.0	16000.0	16000.0	16000.0	F4
P50 930 800	9.50	0.587	-0.552	8.375	13.875	17.625	23.000	0.0	0.0	0.0	0.0	F4
P50 758 803	7.97	0.928	-0.439	2.500	3.125	3.000	4.250	-47993.0	29300.0	29300.0	29300.0	F4
P50 719 804	7.32	0.277	-0.240	2.500	5.375	7.375	14.625	-52341.0	41400.0	41400.0	41400.0	F4
P50 756 804	7.93	0.345	-0.190	1.125	2.125	3.250	4.000	-43041.0	41400.0	41400.0	41400.0	AT38
P50 8 4 804	8.07	0.265	-0.197	1.500	3.000	4.500	15.125	-48816.0	29700.0	29700.0	29700.0	F15
P50 914 804	9.23	0.221	-0.179	2.000	5.750	9.375	8.500	-53747.0	30300.0	30300.0	30300.0	F15
P50 923 804	9.38	0.352	-0.265	5.875	7.875	9.375	9.625	-54147.0	14000.0	14000.0	14000.0	AT38
P50 952 804	9.87	0.644	-0.620	0.750	1.500	1.750	6.750	0.0	0.0	0.0	0.0	AT38
P501046 804	10.77	0.181	-0.124	7.000	15.375	25.625	31.625	-47456.0	15200.0	15200.0	15200.0	F15
P5011 2 804	11.03	0.667	-0.587	5.500	14.000	22.000	25.000	-54597.0	31000.0	31000.0	31000.0	F15
P50 820 805	8.33	0.637	-0.599	0.625	1.250	1.875	5.375	0.0	0.0	0.0	0.0	F15
P50 9 6 805	9.10	1.071	-1.156	0.750	1.375	2.500	4.125	-62305.0	29500.0	29500.0	29500.0	F16
P50 9 6 805	9.10	0.921	-0.897	1.000	1.875	2.750	3.625	-62305.0	29500.0	29500.0	29500.0	F16
P50 926 805	9.43	1.055	-0.667	0.250	0.500	2.875	4.750	-47518.0	64800.0	64800.0	64800.0	F16
P50 934 805	9.57	0.275	-0.214	4.375	7.375	13.875	17.625	0.0	0.0	0.0	0.0	SR71
P501055 805	10.92	0.803	-0.465	0.750	1.125	1.750	2.375	0.0	0.0	0.0	0.0	SR71
P5011 8 805	11.13	3.098	-1.362	4.750	4.875	2.875	5.500	-54730.0	32400.0	32400.0	32400.0	SR71
P5012 5 805	12.08	0.348	-0.510	10.500	15.875	36.375	39.000	-54730.0	0.0	0.0	0.0	SR71
P50 829 806	8.48	0.564	-0.411	1.125	2.250	3.000	6.125	-69524.0	31500.0	31500.0	31500.0	F14
P501023 806	10.38	0.956	-0.836	3.250	5.125	7.500	9.500	0.0	0.0	0.0	0.0	F14
P501030 806	10.50	0.836	-0.888	2.000	2.250	6.000	8.500	0.0	0.0	0.0	0.0	F14
P501034 806	10.57	1.513	-0.620	9.750	13.625	13.750	14.875	-50761.0	45000.0	45000.0	45000.0	F18
P501152 806	11.87	0.862	-0.573	8.125	10.875	11.000	14.625	0.0	0.0	0.0	0.0	F18
P50 745 807	7.75	1.675	-1.473	3.000	4.625	4.875	12.250	0.0	0.0	0.0	0.0	F18
P501050 807	10.83	1.400	-1.210	3.250	5.875	7.375	13.500	-59547.0	29900.0	29900.0	29900.0	F18
P52 841 800	8.68	1.485	-1.703	2.125	5.250	8.000	11.000	0.0	16000.0	16000.0	16000.0	F18
P52 758 803	7.97	0.803	-0.801	0.625	4.125	10.875	15.125	-37433.0	29300.0	29300.0	29300.0	F4
P521134 803	11.57	1.442	-1.597	1.375	2.500	3.375	9.000	0.0	0.0	0.0	0.0	F4
P52 719 804	7.32	0.298	-0.254	1.625	3.250	6.375	10.375	-41781.0	41400.0	41400.0	41400.0	AT38
P52 730 804	7.50	0.625	-0.484	7.875	8.875	5.000	11.000	-40151.0	32300.0	32300.0	32300.0	AT38
P52 736 804	7.60	0.132	-0.085	1.500	4.125	6.750	7.875	-34105.0	16700.0	16700.0	16700.0	AT38
P52 756 804	7.93	0.120	-0.070	0.500	3.875	8.125	14.750	-32481.0	41400.0	41400.0	41400.0	F15
P52 756 804	7.93	2.553	-1.313	4.875	5.500	5.625	6.375	-32481.0	41400.0	41400.0	41400.0	F15
P52 8 4 804	8.07	0.970	-0.841	1.375	2.000	2.875	35.500	-38256.0	29700.0	29700.0	29700.0	F15
P52 914 804	9.23	0.486	-0.404	1.000	1.750	2.375	3.250	-43187.0	30300.0	30300.0	30300.0	AT38
P52 952 804	9.38	0.265	-0.244	4.125	6.000	7.750	8.375	-43587.0	14000.0	14000.0	14000.0	AT38
P52 952 804	9.87	0.545	-0.559	2.375	2.375	7.500	9.375	0.0	0.0	0.0	0.0	AT38
P521046 804	10.77	0.453	-0.338	24.250	33.625	38.750	41.625	-36896.0	15200.0	15200.0	15200.0	F15
P5211 2 804	11.03	0.925	-0.883	0.750	3.375	6.250	16.250	-44037.0	31000.0	31000.0	31000.0	F15
P52111 804	11.18	0.211	-0.197	13.000	21.125	50.375	32.250	-24081.0	45000.0	45000.0	45000.0	F15
P521134 804	11.57	0.754	-0.583	4.875	7.375	8.750	13.875	-40279.0	45500.0	45500.0	45500.0	F15
P52 820 805	8.33	0.634	-0.564	0.125	0.250	0.375	0.875	0.0	0.0	0.0	0.0	F15
P52 9 6 805	9.10	1.330	-1.085	1.250	1.375	2.500	7.750	-51745.0	29500.0	29500.0	29500.0	F16
P52 9 6 805	9.10	0.813	-0.902	0.500	1.125	1.375	4.125	-51745.0	29500.0	29500.0	29500.0	F16
P52 926 805	9.43	0.794	-0.752	0.375	1.625	2.375	5.625	-36958.0	64800.0	64800.0	64800.0	SR71
P52 934 805	9.57	0.822	-0.651	4.000	9.250	11.000	35.375	0.0	0.0	0.0	0.0	SR71
P52 945 805	9.75	0.521	-0.470	9.750	20.250	27.000	31.500	0.0	0.0	0.0	0.0	SR71
P521055 805	10.92	0.949	-0.547	1.000	1.250	1.875	2.125	0.0	73000.0	73000.0	73000.0	SR71
P5211 8 805	11.13	1.928	-1.301	1.750	2.000	1.750	3.000	-44170.0	32400.0	32400.0	32400.0	SR71
P5212 4 805	12.07	0.996	-0.888	6.750	8.625	12.750	17.750	-39191.0	30000.0	30000.0	30000.0	F16
P521236 805	12.60	1.233	-0.813	1.875	2.625	25.000	26.375	0.0	0.0	0.0	0.0	F16
P52 757 806	7.95	0.491	-0.498	3.875	7.375	27.125	30.375	-43650.0	44700.0	44700.0	44700.0	F18
P52 829 806	8.48	0.893	-0.559	0.375	1.250	1.500	1.875	-58964.0	31500.0	31500.0	31500.0	F18

P521022 806	10.37	1.762	-1.184	8.000	14.375	15.500	16.375	-41282.0	30000.0	1.30	F18
P521030 806	10.50	0.782	-0.937	2.250	4.375	12.875	23.250	0.0	0.0	0.00	
P521034 806	10.57	1.268	-0.904	2.625	6.250	6.250	8.250	-40201.0	45000.0	1.43	F18
P521148 806	11.80	0.700	-0.529	9.750	13.875	16.500	21.875	-41342.0	14000.0	1.20	F111D
P521152 806	11.87	0.949	-0.540	14.250	20.125	17.875	24.875	0.0	0.0	0.00	
P521050 807	10.83	2.147	-1.421	3.125	4.500	4.000	7.250	-48987.0	29900.0	1.25	F111D
P54 841 800	8.68	2.011	-2.095	1.000	2.875	4.875	7.750	0.0	16000.0	1.20	F4
P54 930 800	9.50	0.660	-0.540	7.250	12.875	18.875	27.625	0.0	0.0	0.00	
P54 748 803	7.80	1.771	-1.541	15.375	17.375	7.500	23.125	-29237.0	29200.0	1.24	F4
P54 758 803	7.97	1.083	-0.761	2.625	8.000	9.875	14.125	-26873.0	29300.0	1.29	F4
P54 8 8 803	8.13	0.338	-0.357	7.375	11.000	64.125	21.750	0.0	13000.0	1.10	F4
P541030 803	10.50	1.132	-0.761	523.750	528.250	77.875	533.625	0.0	0.0	0.00	
P541043 803	10.72	0.303	-0.209	220.125	234.125	514.125	243.500	-25870.0	44400.0	1.37	F4
P54 719 804	7.32	0.364	-0.247	1.875	3.125	4.000	6.125	-31221.0	41400.0	1.17	AT38
P54 730 804	7.50	0.329	-0.265	1.375	2.125	3.125	5.000	-29591.0	32300.0	1.12	AT38
P54 810 804	8.17	0.958	-0.759	3.625	7.875	18.125	25.375	-26945.0	12500.0	1.10	F15
P54 914 804	9.23	0.587	-0.460	2.250	3.375	4.000	6.125	-32627.0	30300.0	1.20	AT38
P54 923 804	9.38	0.327	-0.310	5.125	7.625	9.500	10.750	-33027.0	14000.0	1.10	AT38
P54 952 804	9.87	0.987	-0.874	4.625	9.125	10.000	14.125	0.0	0.0	0.00	
P541046 804	10.77	1.008	-0.780	10.875	15.625	14.750	17.375	-26336.0	15200.0	1.13	F15
P5411 2 804	11.03	1.036	-0.975	2.875	8.000	14.000	17.750	-33477.0	31000.0	1.28	F15
P54111 804	11.18	0.364	-0.308	5.750	9.875	18.625	35.625	-13521.0	45000.0	1.42	F15
P541134 804	11.57	1.142	-0.853	2.125	4.250	7.375	8.500	-29719.0	45500.0	1.40	F15
P541140 804	11.67	0.594	-0.575	23.625	26.500	25.625	31.250	0.0	0.0	0.00	
P54 820 805	8.33	0.634	-0.669	0.500	1.000	1.625	2.000	0.0	0.0	0.00	
P54 9 6 805	9.10	1.353	-1.156	3.000	4.125	4.500	4.875	-41185.0	29500.0	1.25	F16
P54 9 6 805	9.10	0.897	-1.019	0.500	1.625	2.375	4.500	-41185.0	29500.0	1.25	F16
P54 926 805	9.43	0.944	-0.726	1.250	1.750	2.250	10.125	-26398.0	64800.0	2.50	SR71
P54 933 805	9.55	0.921	-0.782	1.375	2.875	9.000	11.500	-33230.0	46700.0	1.43	F16
P54 944 805	9.73	3.333	-1.651	9.875	10.750	10.125	12.875	-35715.0	19300.0	1.17	F16
P541055 805	10.92	0.766	-0.557	1.000	1.750	3.125	7.125	0.0	73000.0	3.00	SR71
P5411 8 805	11.13	2.058	-1.456	1.250	1.500	1.250	1.750	-33610.0	32400.0	1.23	SR71
P54114 805	11.73	1.153	-1.125	5.250	6.625	6.125	17.000	-32743.0	14400.0	1.13	F16
P5412 4 805	12.07	1.090	-1.076	2.875	11.875	15.250	17.375	-28631.0	30000.0	1.25	F16
P541236 805	12.60	0.759	-0.630	6.375	9.625	12.625	15.875	0.0	0.0	0.00	
P54 757 806	7.95	1.386	-1.012	0.125	0.750	1.250	1.375	-33090.0	44700.0	1.40	F18
P54 810 806	8.17	1.701	-1.896	1.500	2.250	3.125	4.625	-38954.0	14200.0	1.10	F18
P54 828 806	8.47	0.240	-0.294	13.625	36.125	44.750	42.500	0.0	0.0	0.00	
P54 829 806	8.48	1.050	-0.613	2.000	3.500	4.500	4.750	-48404.0	31500.0	1.20	F14
P541022 806	10.37	1.534	-1.226	1.500	9.625	12.375	14.000	-30722.0	30000.0	1.30	F18
P541030 806	10.50	1.029	-0.827	2.000	2.375	5.250	7.875	0.0	0.0	0.00	
P541034 806	10.57	0.949	-0.787	2.500	9.000	9.500	12.125	-29641.0	45000.0	1.43	F18
P541043 806	10.72	1.207	-0.733	15.750	18.250	15.750	21.250	-20647.0	16500.0	1.27	F14
P541048 806	10.80	0.940	-0.958	23.625	47.750	60.125	72.250	0.0	13000.0	1.10	F18
P541148 806	11.80	2.419	-1.992	12.000	23.250	20.125	27.250	-30782.0	14000.0	1.20	F111D
P541152 806	11.87	0.341	-0.294	6.750	10.750	30.625	32.875	0.0	0.0	0.00	
P5412 4 806	12.07	1.557	-0.984	5.125	5.750	4.250	6.500	-30568.0	45000.0	1.40	F111D
P5412 4 806	12.07	0.902	-0.742	6.250	24.250	24.125	28.125	-30568.0	45000.0	1.40	F111D
P5410 2 807	10.03	0.200	-0.432	12.875	20.375	247.125	32.500	0.0	0.0	0.00	
P541050 807	10.83	1.630	-1.724	0.625	3.250	8.625	11.375	-38427.0	29900.0	1.25	F111D
P56 841 800	8.68	2.699	-2.877	0.375	2.375	3.375	4.125	0.0	16000.0	1.20	F4
P56 748 803	7.80	1.257	-1.078	0.250	0.750	1.375	16.000	-18677.0	29200.0	1.24	F4
P56 758 803	7.97	1.630	-1.059	0.250	0.500	1.625	2.000	-16313.0	29300.0	1.29	F4
P56 8 8 803	8.13	0.308	-0.432	6.250	7.250	9.375	8.625	0.0	13000.0	1.10	F4
P561012 803	10.20	0.709	-0.817	13.250	31.500	33.250	37.625	-33924.0	13000.0	1.10	T38
P561030 803	10.50	1.997	-2.323	3.250	4.750	5.125	13.000	0.0	0.0	0.00	
P561043 803	10.72	0.834	-0.740	9.375	12.375	13.875	16.125	-15310.0	44400.0	1.37	F4
P561134 803	11.57	1.456	-0.871	3.125	3.750	3.250	5.375	0.0	0.0	0.00	
P56 719 804	7.32	0.298	-0.322	1.375	3.250	5.000	7.875	-20661.0	41400.0	1.17	AT38

P56 730 804	7.50	0.329	-0.310	1.750	3.750	5.500	7.000	-19031.0	32300.0	1.12	AT38
P56 730 804	7.50	0.132	-0.120	1.250	3.500	6.000	7.500	-12300.0	32300.0	1.12	AT38
P56 736 804	7.60	0.280	-0.247	1.375	3.750	10.375	11.750	-12985.0	16700.0	1.15	AT38
P56 756 804	7.93	1.186	-0.900	1.250	0.625	1.250	7.375	-11361.0	41400.0	1.38	F15
P56 8 4 804	8.07	1.442	-1.120	0.375	1.375	1.875	3.750	-17136.0	29700.0	1.20	F15
P56 810 804	8.17	1.562	-1.113	0.500	0.875	1.125	2.125	-16385.0	12500.0	1.10	F15
P56 914 804	9.23	1.423	-0.947	2.125	3.000	3.000	4.500	-22067.0	30300.0	1.20	AT38
P56 923 804	9.38	0.369	-0.341	4.125	5.500	6.875	9.000	-22467.0	14000.0	1.10	AT38
P56 952 804	9.87	0.507	-0.472	0.625	1.625	4.500	7.875	0.0	0.0	0.00	
P561046 804	10.77	2.323	-1.527	3.750	5.125	4.000	5.750	-15776.0	15200.0	1.13	F15
P5611 2 804	11.03	1.914	-1.322	0.875	1.625	2.250	2.625	-22917.0	31000.0	1.28	F15
P56111 804	11.18	0.167	-0.103	5.000	10.375	17.750	18.250	-2961.0	45000.0	1.42	F15
P56111 804	11.18	1.473	-0.803	2.875	3.375	3.125	4.750	-2961.0	45000.0	1.42	F15
P561134 804	11.57	1.261	-1.001	3.000	5.000	10.500	11.375	-19159.0	45500.0	1.40	F15
P561139 804	11.65	0.482	-0.371	3.000	5.250	8.125	10.375	0.0	0.0	0.00	
P56 9 6 805	9.10	1.527	-1.431	0.250	1.875	5.125	6.750	-30625.0	29500.0	1.25	F16
P56 9 6 805	9.10	0.601	-0.740	1.750	2.750	3.375	4.000	-30625.0	29500.0	1.25	F16
P56 926 805	9.43	1.062	-0.839	0.500	1.250	1.750	2.500	-15838.0	64800.0	2.50	SR71
P56 933 805	9.55	0.839	-0.731	1.250	3.375	4.625	6.625	-22670.0	46700.0	1.43	F16
P56 944 805	9.73	2.636	-2.180	3.750	6.000	6.000	6.750	-25155.0	19300.0	1.17	F16
P561055 805	10.92	0.817	-0.672	0.750	2.375	3.875	16.000	0.0	73000.0	3.00	SR71
P5611 8 805	11.13	2.163	-1.710	0.750	1.375	1.750	2.500	-23050.0	32400.0	1.23	SR71
P56114 805	11.73	2.725	-2.394	5.500	6.250	5.500	8.625	-22183.0	14400.0	1.13	F16
P561154 805	11.90	1.111	-0.940	10.625	26.250	27.750	32.250	-16800.0	13800.0	1.12	F16
P5612 4 805	12.07	1.365	-1.132	0.875	1.125	1.375	3.750	-18071.0	30000.0	1.25	F16
P561235 805	12.58	1.111	-0.972	3.500	7.125	9.375	10.750	-10069.0	52000.0	1.70	SR71
P56 744 806	7.73	4.545	-3.716	5.250	49.625	47.750	50.500	-19397.0	30000.0	1.30	F18
P56 757 806	7.95	1.144	-1.156	0.250	0.750	1.750	7.000	-22530.0	44700.0	1.40	F18
P56 810 806	8.17	3.636	-2.988	0.250	0.750	1.250	1.750	-28394.0	14200.0	1.10	F18
P56 828 806	8.47	1.137	-0.653	0.125	0.625	1.500	4.625	0.0	0.0	0.00	
P561022 806	10.37	1.661	-1.414	0.125	0.250	0.375	0.500	-20162.0	30000.0	1.30	F18
P561030 806	10.50	0.707	-0.700	4.375	5.875	6.625	7.250	0.0	0.0	0.00	
P561034 806	10.57	0.778	-0.827	1.625	3.125	7.750	18.250	-19081.0	45000.0	1.43	F18
P561043 806	10.72	1.409	-1.513	117.000	118.750	5.875	135.125	-10087.0	16500.0	1.27	F14
P561048 806	10.80	2.196	-1.813	10.000	11.125	21.625	32.875	0.0	13000.0	1.10	F18
P5612 4 806	12.07	1.550	-0.907	2.250	3.250	3.000	4.375	-20008.0	45000.0	1.40	F111D
P56 817 807	8.28	2.349	-1.637	7.625	9.625	13.250	15.375	0.0	0.0	0.00	
P5610 2 807	10.03	1.983	-1.485	0.250	1.125	1.625	5.375	0.0	0.0	0.00	
P561050 807	10.83	2.194	-1.924	0.500	1.125	1.625	8.500	-27867.0	29900.0	1.25	F111D
P58 841 800	8.68	3.676	-3.902	0.375	1.375	2.250	4.875	0.0	16000.0	1.20	F4
P58 748 803	7.80	2.579	-2.020	0.250	0.750	1.375	2.250	-8117.0	29200.0	1.24	F4
P58 758 803	7.97	2.257	-1.870	0.250	1.250	2.250	3.250	-5753.0	29300.0	1.29	F4
P58 8 8 803	8.13	0.465	-0.334	38.375	43.125	45.500	45.750	0.0	13000.0	1.10	F4
P581012 803	10.20	0.587	-0.890	41.875	50.375	50.500	61.750	-23364.0	13000.0	1.10	T38
P581029 803	10.48	3.871	-3.453	0.750	1.250	3.375	7.750	-12862.0	14400.0	1.10	F4
P581043 803	10.72	1.529	-0.956	2.625	4.875	15.750	19.250	-4750.0	44400.0	1.37	F4
P581134 803	11.57	2.067	-1.353	5.625	8.250	5.500	10.000	0.0	0.0	0.00	
P58 719 804	7.32	0.479	-0.439	9.000	14.000	19.125	22.375	-5787.0	21200.0	1.05	T38
P58 730 804	7.50	0.345	-0.291	2.250	5.000	10.500	13.625	-10101.0	41400.0	1.17	AT38
P58 730 804	7.50	0.108	-0.117	2.000	3.500	8.000	13.125	-8471.0	32300.0	1.12	AT38
P58 736 804	7.60	0.536	-0.477	1.000	1.875	2.875	5.750	-2425.0	16700.0	1.15	AT38
P58 756 804	7.93	1.132	-0.874	1.875	3.875	7.250	10.625	-801.0	41400.0	1.38	F15
P58 8 4 804	8.07	1.889	-1.426	0.250	1.750	3.000	3.750	-6576.0	29700.0	1.20	F15
P58 810 804	8.17	2.166	-2.163	1.750	5.250	8.000	11.875	-5825.0	12500.0	1.10	F15
P58 914 804	9.23	0.752	-0.747	1.000	1.750	2.625	3.500	-11507.0	30300.0	1.20	AT38
P58 923 804	9.38	0.566	-0.519	2.500	3.875	5.000	8.125	-11907.0	14000.0	1.10	AT38
P58 952 804	9.87	0.601	-0.435	0.375	1.000	1.375	1.750	0.0	0.0	0.00	
P581046 804	10.77	2.845	-2.431	1.125	1.875	3.375	8.000	-5216.0	15200.0	1.13	F15
P5811 2 804	11.03	2.053	-1.391	1.375	3.375	5.500	6.750	-12357.0	31000.0	1.28	F15

P581111 804	11.18	1.290	-1.081	0.625	2.750	3.000	15.750	7599.0	45000.0	1.42	F15
P581134 804	11.57	1.226	-0.886	0.500	1.625	2.750	3.500	-8599.0	45500.0	1.40	F15
P581139 804	11.65	0.646	-0.564	2.500	6.875	8.500	10.625	0.0	0.0	0.00	F15
P58 820 805	8.33	0.813	-0.655	2.500	3.125	3.000	4.375	0.0	0.0	0.00	F16
P58 9 6 805	9.10	1.851	-1.494	0.500	1.125	2.000	2.750	-20065.0	29500.0	1.25	F16
P58 9 6 805	9.10	0.705	-0.714	2.375	6.625	8.250	10.000	-20065.0	29500.0	1.25	F16
P58 926 805	9.43	1.513	-1.015	0.500	2.000	3.250	4.625	-5278.0	64800.0	2.50	SR71
P58 933 805	9.55	1.001	-0.923	0.625	1.500	2.375	7.625	-12110.0	46700.0	1.43	F16
P58 944 805	9.73	3.641	-2.640	0.125	0.250	0.875	1.000	-14595.0	19300.0	1.17	F16
P581055 805	10.92	0.904	-0.658	1.625	2.375	2.750	3.750	0.0	73000.0	3.00	SR71
P5811 8 805	11.13	2.638	-1.884	2.500	3.250	10.125	11.875	-12490.0	32400.0	3.00	SR71
P581144 805	11.73	4.447	-3.573	0.250	0.375	0.875	6.875	-11623.0	14400.0	1.13	F16
P581154 805	11.90	2.828	-2.241	4.250	5.125	14.875	17.750	-6240.0	13800.0	1.12	F16
P5812 4 805	12.07	1.517	-1.461	0.750	3.625	4.625	12.625	-7511.0	30000.0	1.25	F16
P581235 805	12.58	1.560	-1.095	0.750	1.375	1.750	2.000	491.0	52000.0	1.70	SR71
P58 744 806	7.73	1.910	-1.708	1.125	0.750	1.250	3.500	-8837.0	30000.0	1.30	F18
P58 757 806	7.95	1.231	-1.092	1.125	1.875	2.625	3.875	-11970.0	44700.0	1.40	F18
P58 810 806	8.17	4.771	-4.118	0.250	0.875	2.375	3.875	-17834.0	14200.0	1.10	F18
P58 829 806	8.48	0.752	-0.740	31.500	33.250	29.750	43.250	-27284.0	31500.0	1.20	F14
P581022 806	10.37	1.781	-1.811	0.375	1.750	2.625	8.000	-9602.0	30000.0	1.30	F18
P581030 806	10.50	0.824	-0.759	1.500	5.625	7.750	12.125	0.0	0.0	0.00	F18
P581034 806	10.57	1.034	-0.886	0.250	0.375	1.500	2.500	-8521.0	45000.0	1.43	F18
P581043 806	10.72	3.007	-2.206	0.750	0.875	1.000	2.750	473.0	16500.0	1.27	F14
P581048 806	10.80	3.347	-3.077	5.250	6.125	5.250	6.625	0.0	13000.0	1.10	F18
P581148 806	11.80	5.102	-4.050	0.250	0.750	1.250	13.625	-9662.0	14000.0	1.20	F11LD
P5812 4 806	12.07	1.421	-1.165	1.250	2.500	6.250	8.000	-9448.0	45000.0	1.40	F11LD
P58 817 807	8.28	1.743	-1.494	1.000	1.375	2.500	6.500	0.0	0.0	0.00	F18
P5810 2 807	10.03	1.496	-1.287	1.750	2.500	3.250	3.875	0.0	0.0	0.00	F18
P581050 807	10.83	2.800	-2.384	0.875	3.875	5.625	10.500	-17307.0	29900.0	1.25	F11LD
P59 841 800	8.68	2.821	-3.328	0.250	0.375	1.250	6.625	0.0	16000.0	1.20	F4
P59 930 800	9.50	1.174	-1.301	0.625	1.000	1.500	2.750	0.0	0.0	0.00	F4
P59 748 803	7.80	2.062	-2.065	0.500	2.000	6.625	12.750	-2837.0	29200.0	1.24	F4
P59 758 803	7.97	2.739	-2.476	0.250	0.750	1.000	1.375	-473.0	29300.0	1.29	F4
P591030 803	10.50	7.326	-3.883	0.500	0.625	1.000	1.125	0.0	0.0	0.00	F4
P591043 803	10.72	1.287	-0.778	1.625	7.000	8.500	11.500	530.0	44400.0	1.37	F4
P591238 803	12.63	0.510	-0.449	8.625	12.500	14.875	16.750	-507.0	21200.0	1.05	T38
P59 719 804	7.32	0.552	-0.446	1.250	2.125	3.000	4.500	-4821.0	41400.0	1.17	AT38
P59 730 804	7.50	0.742	-0.630	1.875	2.625	3.125	4.000	-3191.0	32300.0	1.12	AT38
P59 736 804	7.60	0.723	-0.625	0.875	2.125	3.375	4.375	2855.0	16700.0	1.15	AT38
P59 756 804	7.93	0.954	-0.874	0.375	1.500	3.250	6.750	4479.0	41400.0	1.38	F15
P59 8 4 804	8.07	1.738	-1.470	0.250	0.750	1.375	3.750	-1296.0	29700.0	1.20	F15
P59 810 804	8.17	3.601	-2.915	0.750	0.875	1.875	2.875	-545.0	12500.0	1.10	F15
P59 914 804	9.23	0.855	-0.841	0.500	0.875	1.000	2.000	-6227.0	30300.0	1.20	AT38
P59 923 804	9.38	1.156	-0.618	5.500	6.125	5.125	7.625	-6627.0	14000.0	1.10	AT38
P59 952 804	9.87	0.442	-0.376	2.875	4.750	5.875	7.750	0.0	0.0	0.00	F16
P591046 804	10.77	3.561	-2.950	0.500	0.750	1.000	1.125	64.0	15200.0	1.13	F15
P5911 2 804	11.03	1.520	-1.268	0.875	1.750	2.125	4.750	-7077.0	31000.0	1.28	F15
P59111 804	11.18	0.996	-0.808	1.375	7.125	12.625	14.750	12879.0	45000.0	1.42	F15
P591134 804	11.57	1.076	-0.785	1.125	1.750	1.875	3.125	-3319.0	45500.0	1.40	F15
P59 820 805	8.33	0.500	-0.470	1.875	10.875	15.875	21.000	0.0	0.0	0.00	F15
P59 820 805	8.33	0.608	-0.583	0.750	1.750	2.875	6.125	0.0	0.0	0.00	F15
P59 9 6 805	9.10	1.405	-1.275	0.500	1.625	2.000	3.250	-14785.0	29500.0	1.25	F16
P59 9 6 805	9.10	0.329	-0.308	2.125	4.375	9.000	13.500	-14785.0	29500.0	1.25	F16
P59 926 805	9.43	1.130	-0.949	0.750	1.250	2.375	3.625	2.0	64800.0	2.50	SR71
P59 933 805	9.55	0.961	-0.890	1.250	2.750	6.250	13.125	-6830.0	46700.0	1.43	F16
P59 944 805	9.73	2.194	-2.241	0.625	3.000	4.875	6.000	-9315.0	19300.0	1.17	F16
P591055 805	10.92	0.895	-0.674	1.125	1.875	5.250	6.375	0.0	73000.0	3.00	SR71
P5911 8 805	11.13	2.986	-1.701	1.875	2.375	3.125	3.125	-7210.0	32400.0	1.23	SR71
P591144 805	11.73	3.223	-3.331	2.875	4.250	3.625	23.750	-6343.0	14400.0	1.13	F16
P5912 4 805	12.07	1.313	-1.127	1.750	3.625	3.375	4.625	-2231.0	30000.0	1.25	F16

P591235 805	12.58	1.405	-0.944	2.375	8.375	11.250	13.000	5771.0	52000.0	1.70	SR71
P59 744 806	7.73	1.926	-1.802	0.125	0.250	1.125	1.375	-3557.0	30000.0	1.30	F18
P59 757 806	7.95	1.186	-1.127	0.875	2.750	5.875	12.000	-6690.0	44700.0	1.40	F18
P59 810 806	8.17	4.111	-3.584	0.250	0.375	1.250	1.500	-12554.0	14200.0	0.00	F18
P59 828 806	8.47	0.120	-0.068	1.125	7.500	10.625	13.000	0.0	0.0	0.00	F18
P591022 806	10.37	2.161	-1.809	1.500	5.000	5.750	11.250	-4322.0	30000.0	1.30	F18
P591030 806	10.50	0.768	-0.620	3.750	6.000	6.625	11.750	0.0	0.0	0.00	F18
P591034 806	10.57	1.266	-0.888	2.375	5.875	6.875	7.750	-3241.0	45000.0	1.43	F18
P591043 806	10.72	6.807	-4.324	0.750	1.500	1.500	2.375	5753.0	16500.0	1.27	F14
P591048 806	10.80	3.380	-3.204	1.625	2.625	3.000	5.250	0.0	13000.0	1.10	F18
P591148 806	11.80	6.288	-5.367	1.125	1.375	2.125	3.125	-4382.0	14000.0	1.20	F111D
P59 817 807	8.28	1.327	-1.416	1.250	2.000	2.750	14.000	0.0	0.0	0.00	F18
P5910 2 807	10.03	1.259	-1.273	0.250	1.000	1.500	2.250	-12027.0	29900.0	1.25	F111D
P591050 807	10.83	2.981	-2.084	2.125	3.250	3.375	5.250	0.0	16000.0	1.20	F4
P61 841 800	8.68	2.826	-2.838	0.250	0.375	2.500	4.250	0.0	0.0	0.00	F4
P61 930 800	9.50	1.005	-1.200	1.000	1.625	4.250	5.375	0.0	0.0	0.00	F4
P61 748 803	7.80	2.271	-2.055	0.125	0.250	0.750	1.250	7723.0	29200.0	1.24	F4
P61 758 803	7.97	2.868	-2.673	0.250	0.375	1.500	2.375	10087.0	29300.0	1.29	F4
P61 8 8 803	8.13	0.294	-0.357	10.625	13.375	17.375	29.875	0.0	13000.0	1.10	F4
P611012 803	10.20	0.237	-0.233	22.750	32.125	53.875	45.500	-7524.0	13000.0	1.10	T38
P611030 803	10.50	3.352	-3.519	0.625	0.875	1.375	2.375	0.0	0.0	0.00	F4
P611043 803	10.72	3.763	-2.281	3.125	27.625	28.625	30.000	11090.0	44400.0	1.37	F4
P611238 803	12.63	0.479	-0.327	7.000	9.500	11.750	14.000	10053.0	21200.0	1.05	T38
P61 719 804	7.32	0.507	-0.437	1.125	2.125	3.375	4.625	5739.0	41400.0	1.17	AT38
P61 730 804	7.50	0.451	-0.381	1.875	4.125	5.625	8.875	7369.0	32300.0	1.12	AT38
P61 736 804	7.60	0.770	-0.752	0.875	1.750	2.375	10.750	13415.0	16700.0	1.15	AT38
P61 756 804	7.93	1.409	-1.031	0.375	1.125	1.500	4.125	15039.0	41400.0	1.38	F15
P61 756 804	7.93	0.329	-0.284	12.125	22.125	24.375	27.875	15039.0	41400.0	1.38	F15
P61 8 4 804	8.07	1.604	-1.315	4.000	4.750	5.500	8.875	9264.0	25700.0	1.20	F15
P61 810 804	8.17	3.493	-3.072	0.250	0.750	1.625	4.625	10015.0	12500.0	1.10	F15
P61 914 804	9.23	0.742	-0.893	2.000	3.625	5.375	13.750	4333.0	30300.0	1.20	AT38
P61 923 804	9.38	0.787	-0.646	2.125	5.750	6.375	7.375	3933.0	14000.0	1.10	AT38
P61 952 804	9.87	0.366	-0.338	1.625	6.375	9.250	12.250	0.0	0.0	0.00	F15
P611046 804	10.77	3.516	-3.354	0.375	0.625	1.000	7.000	10624.0	15200.0	1.13	F15
P6111 2 804	11.03	2.741	-1.435	2.625	3.000	3.125	4.125	3483.0	31000.0	1.28	F15
P611111 804	11.18	0.935	-0.902	1.625	3.250	7.750	13.000	23439.0	45000.0	1.42	F15
P611134 804	11.57	2.152	-1.001	0.375	0.500	0.625	1.000	7241.0	45500.0	1.40	F15
P61 820 805	8.33	0.524	-0.550	2.250	5.500	7.625	9.500	0.0	0.0	0.00	F16
P61 9 6 805	9.10	1.325	-1.334	0.625	1.125	1.625	5.500	-4225.0	29500.0	1.25	F16
P61 926 805	9.43	1.381	-1.003	1.125	1.375	1.625	2.375	10562.0	64800.0	2.50	SR71
P61 933 805	9.55	1.435	-1.038	1.500	2.125	2.625	3.500	3730.0	46700.0	1.43	F16
P61 944 805	9.73	2.422	-1.759	0.875	1.500	2.625	2.875	1245.0	19300.0	1.17	F16
P611055 805	10.92	0.902	-0.693	0.875	1.375	3.625	4.625	0.0	73000.0	3.00	SR71
P6111 8 805	11.13	2.751	-1.860	0.875	2.625	3.125	4.375	3350.0	32400.0	1.23	SR71
P611144 805	11.73	2.039	-2.156	4.125	6.750	18.875	20.875	4217.0	14400.0	1.13	F16
P611154 805	11.90	2.657	-3.190	0.250	1.250	6.875	8.000	9600.0	13800.0	1.12	F16
P6112 4 805	12.07	1.456	-1.327	0.500	0.875	1.250	10.875	8329.0	30000.0	1.25	F16
P611235 805	12.58	1.468	-1.144	1.000	2.250	3.000	7.500	16331.0	52000.0	1.70	SR71
P61 744 806	7.73	1.630	-1.701	0.250	0.750	1.375	5.875	7003.0	30000.0	1.30	F18
P61 757 806	7.95	1.062	-1.069	0.250	1.125	1.750	2.750	3870.0	44700.0	1.40	F18
P61 810 806	8.17	2.236	-2.431	0.250	1.250	5.125	11.750	-1994.0	14200.0	1.10	F18
P611022 806	10.37	2.603	-1.959	0.500	1.375	4.750	5.125	6238.0	30000.0	1.30	F18
P611030 806	10.50	0.606	-0.583	3.750	9.125	12.750	18.375	0.0	0.0	0.00	F18
P611034 806	10.57	0.806	-0.817	0.375	0.625	3.375	5.375	7319.0	45000.0	1.43	F18
P611043 806	10.72	5.128	-67.283	1.125	2.375	4.625	7.000	16313.0	16500.0	1.27	F14
P611048 806	10.80	4.191	-3.984	0.250	1.250	1.625	3.125	0.0	13000.0	1.10	F18
P611148 806	11.80	5.677	-4.343	0.250	0.375	0.875	1.375	6178.0	14000.0	1.20	F111D
P611152 806	11.87	0.291	-0.244	5.875	9.250	20.375	23.250	0.0	0.0	0.00	F18
P6112 4 806	12.07	2.074	-1.313	1.500	5.625	7.500	8.500	6392.0	45000.0	1.40	F111D
P61 817 807	8.28	2.032	-1.748	0.625	0.875	1.000	1.875	0.0	0.0	0.00	F18

P6110 2 807	10.03	1.473	-1.416	0.500	3.250	4.875	10.625	0.0	0.0	0.00
P611050 807	10.83	2.692	-1.785	1.000	1.250	1.250	1.500	-1467.0	29900.0	i.25 F111D
P61115 807	11.25	1.726	-1.712	2.750	6.000	12.125	12.625	0.0	0.0	0.00
P62 841 800	8.68	2.300	-2.203	0.125	0.250	0.750	1.000	0.0	16000.0	1.20 F4
P62 748 803	7.80	1.961	-1.748	0.125	0.375	0.750	2.125	13003.0	29200.0	1.24 F4
P62 758 803	7.97	2.847	-2.574	0.125	0.250	1.250	2.250	15367.0	29300.0	1.29 F4
P62 8 803	8.13	0.280	-0.322	10.750	15.375	21.875	22.500	0.0	13000.0	1.10 F4
P621012 803	10.20	0.251	-0.251	32.750	43.000	56.875	47.500	-2244.0	13000.0	1.10 T38
P621030 803	10.50	2.744	-2.614	1.375	2.000	2.375	3.625	0.0	0.0	0.00
P621238 803	12.63	0.775	-0.759	23.125	25.250	23.750	29.125	15333.0	21200.0	1.05 T38
P62 719 804	7.32	0.453	-0.432	2.375	4.125	5.750	8.750	11019.0	41400.0	1.17 AT38
P62 730 804	7.50	0.388	-0.357	3.000	6.875	14.000	17.000	12649.0	32300.0	1.12 AT38
P62 736 804	7.60	0.949	-0.747	1.875	3.750	6.125	11.125	18695.0	16700.0	1.15 AT38
P62 756 804	7.93	1.536	-1.059	0.250	0.750	1.375	2.125	20319.0	41400.0	1.38 F15
P62 756 804	7.93	0.773	-0.444	4.000	5.375	5.375	8.000	20319.0	41400.0	1.38 F15
P62 8 4 804	8.07	2.229	-1.524	0.375	0.750	1.250	2.250	14544.0	29700.0	1.20 F15
P62 810 804	8.17	3.561	-3.195	0.375	0.500	1.250	2.375	15295.0	12500.0	1.10 F15
P62 914 804	9.23	1.003	-0.848	0.500	0.750	2.000	2.250	9613.0	30300.0	1.20 AT38
P62 923 804	9.38	0.489	-0.442	2.250	4.250	5.500	8.375	9213.0	14000.0	1.10 AT38
P62 952 804	9.87	0.554	-0.406	1.625	2.750	3.375	3.875	0.0	0.0	0.00
P621046 804	10.77	4.517	-3.138	0.250	0.375	0.875	1.000	15904.0	15200.0	1.13 F15
P6211 2 804	11.03	2.084	-1.463	1.625	2.250	3.375	4.000	8763.0	31000.0	1.28 F15
P621111 804	11.18	0.930	-0.869	0.500	2.375	5.000	6.625	28719.0	45000.0	1.42 F15
P621134 804	11.57	1.135	-0.907	1.125	2.125	5.500	6.875	12521.0	45500.0	1.40 F15
P62 820 805	8.33	0.604	-0.512	2.250	3.375	4.125	11.375	0.0	0.0	0.00
P62 9 6 805	9.10	1.137	-0.963	0.500	1.000	1.375	3.375	1055.0	29500.0	1.25 F16
P62 9 6 805	9.10	0.721	-0.482	2.500	5.625	6.250	7.500	1055.0	29500.0	1.25 F16
P62 926 805	9.43	1.088	-0.916	1.000	2.250	5.375	8.750	15842.0	64800.0	2.50 SR71
P62 933 805	9.55	0.991	-0.980	0.750	1.000	2.750	3.625	9010.0	46700.0	1.43 F16
P62 944 805	9.73	4.693	-2.325	5.750	9.875	10.125	10.250	6525.0	19300.0	1.17 F16
P621055 805	10.92	0.740	-0.695	1.625	5.375	8.375	12.875	0.0	73000.0	3.00 SR71
P6211 8 805	11.13	4.160	-2.267	0.250	0.375	0.875	3.500	8630.0	32400.0	1.23 SR71
P621144 805	11.73	5.191	-1.738	8.000	9.500	5.000	9.750	9497.0	14400.0	1.13 F16
P621154 805	11.90	1.823	-1.851	0.625	12.625	19.000	22.000	14880.0	13800.0	1.12 F16
P6212 4 805	12.07	1.943	-1.656	1.750	2.750	3.625	9.750	13609.0	30000.0	1.25 F16
P621235 805	12.58	1.318	-1.092	1.375	3.000	5.000	7.000	21611.0	52000.0	1.70 SR71
P62 744 806	7.73	1.635	-1.628	0.250	0.375	1.250	5.500	12283.0	30000.0	1.30 F18
P62 757 806	7.95	1.088	-1.008	0.250	0.625	0.875	1.375	9150.0	44700.0	1.40 F18
P62 810 806	8.17	1.917	-1.938	0.875	3.125	7.875	11.750	3286.0	14200.0	1.10 F18
P621022 806	10.37	2.610	-1.574	0.375	1.375	4.500	5.625	11518.0	30000.0	1.30 F18
P621030 806	10.50	0.510	-0.500	2.125	4.000	17.500	19.375	0.0	0.0	0.00
P621034 806	10.57	0.947	-0.820	0.500	0.625	0.750	7.500	12599.0	45000.0	1.43 F18
P621043 806	10.72	6.319	-4.310	0.250	0.375	1.125	1.750	21593.0	16500.0	1.27 F14
P621048 806	10.80	2.941	-3.211	3.250	3.500	4.500	7.125	0.0	13000.0	1.10 F18
P621148 806	11.80	3.629	-4.195	2.125	5.375	11.500	25.750	11458.0	14000.0	1.20 F111D
P621152 806	11.87	0.216	-0.209	14.500	20.500	23.375	24.125	0.0	0.0	0.00
P6212 4 806	12.07	1.973	-1.327	3.625	5.000	5.500	7.125	11672.0	45000.0	1.40 F111D
P62 816 807	8.27	3.197	-1.846	0.250	0.375	0.500	1.500	0.0	0.0	0.00
P6210 3 807	10.05	1.264	-1.174	1.125	3.250	6.000	14.000	0.0	0.0	0.00
P621050 807	10.83	2.596	-1.957	0.625	0.750	1.125	1.375	3813.0	29900.0	1.25 F111D
P621115 807	11.25	2.476	-1.369	4.375	6.875	8.250	9.875	0.0	0.0	0.00
P64 841 800	8.68	1.640	-1.762	2.125	3.125	3.875	13.750	0.0	16000.0	1.20 F4
P64 931 800	9.52	0.925	-0.980	0.625	0.875	1.500	4.875	0.0	0.0	0.00
P64 748 803	7.80	1.029	-1.019	0.625	2.375	5.750	25.125	23563.0	29200.0	1.24 F4
P64 758 803	7.97	1.445	-1.306	0.750	1.375	1.875	3.625	25927.0	29300.0	1.29 F4
P641030 803	10.50	1.184	-1.132	10.250	16.875	17.875	30.000	0.0	0.0	0.00
P64 719 804	7.32	0.345	-0.322	0.500	1.000	1.625	3.000	21579.0	41400.0	1.17 AT38
P64 730 804	7.50	0.383	-0.315	1.250	2.500	3.875	5.625	23209.0	32300.0	1.12 AT38
P64 736 804	7.60	0.688	-0.543	1.625	2.250	3.125	5.000	29255.0	16700.0	1.15 AT38
P64 756 804	7.93	1.374	-1.034	0.125	0.750	1.125	2.250	30879.0	41400.0	1.38 F15

P64 8 4 804	8.07	1.297	-1.092	0.250	0.750	1.250	2.375	25104.0	29700.0	1.20	F15
P64 810 804	8.17	2.535	-2.086	1.625	4.375	6.500	9.750	25855.0	12500.0	1.10	F15
P64 914 804	9.23	0.423	-0.310	4.500	6.750	8.625	10.500	20173.0	30300.0	1.20	AT38
P64 923 804	9.38	0.190	-0.176	1.375	3.125	10.250	19.625	19773.0	14000.0	1.10	AT38
P64 952 804	9.87	0.319	-0.334	1.625	3.000	9.000	11.750	0.0	0.0	0.00	
P641046 804	10.77	3.096	-2.055	1.750	2.250	2.625	3.000	26464.0	15200.0	1.13	F15
P6411 2 804	11.03	1.360	-1.076	1.000	1.500	2.375	5.125	19323.0	31000.0	1.28	F15
P64111 804	11.18	0.879	-0.820	0.625	2.000	4.000	11.375	39279.0	45000.0	1.42	F15
P641134 804	11.57	0.890	-0.775	2.375	4.500	7.750	10.000	23081.0	45500.0	1.40	F15
P64 9 6 805	9.10	0.672	-0.632	3.500	6.375	8.250	10.375	11615.0	29500.0	1.25	F16
P64 9 7 805	9.12	0.348	-0.171	12.500	16.000	23.125	24.125	0.0	0.0	0.00	
P64 926 805	9.43	0.963	-0.883	0.625	1.500	3.875	5.375	26402.0	64800.0	2.50	SR71
P64 933 805	9.55	1.275	-0.817	1.125	2.000	2.375	2.625	19570.0	46700.0	1.43	F16
P64 944 805	9.73	1.640	-1.231	9.625	10.125	11.500	15.625	17085.0	19300.0	1.17	F16
P641055 805	10.92	0.886	-0.695	1.500	2.000	2.750	3.750	0.0	73000.0	3.00	SR71
P6411 8 805	11.13	2.751	-1.553	2.625	3.625	3.750	4.875	19190.0	32400.0	1.23	SR71
P641144 805	11.73	1.304	-1.271	7.375	8.500	6.250	10.375	20057.0	14400.0	1.13	F16
P641154 805	11.90	2.060	-1.438	12.500	28.500	23.875	33.000	25440.0	13800.0	1.12	F16
P6412 4 805	12.07	1.226	-1.050	1.250	4.875	5.875	8.750	24169.0	30000.0	1.25	F16
P641235 805	12.58	1.036	-0.987	0.875	1.875	3.125	12.625	32171.0	52000.0	1.70	SR71
P64 744 806	7.73	1.355	-1.228	0.250	0.375	0.875	2.750	22843.0	30000.0	1.30	F18
P64 757 806	7.95	0.972	-0.871	0.625	1.250	1.875	2.625	19710.0	44700.0	1.40	F18
P64 810 806	8.17	1.048	-0.742	11.875	26.500	28.125	30.750	13846.0	14200.0	1.10	F18
P641022 806	10.37	1.442	-1.024	0.875	1.875	2.750	4.000	22078.0	30000.0	1.30	F18
P641030 806	10.50	0.918	-0.590	7.125	8.625	8.375	10.375	0.0	0.0	0.00	
P641034 806	10.57	0.916	-0.794	1.500	1.625	1.750	1.875	23159.0	45000.0	1.43	F18
P641043 806	10.72	3.888	-2.762	2.250	6.125	7.125	8.750	32153.0	16500.0	1.27	F14
P641048 806	10.80	1.658	-2.213	1.875	2.875	3.125	24.875	0.0	13000.0	1.10	F18
P641148 806	11.80	2.859	-2.661	1.375	2.625	2.500	4.625	22018.0	14000.0	1.20	F111D
P641152 806	11.87	0.221	-0.204	6.000	11.125	14.875	17.875	0.0	0.0	0.00	
P6412 4 806	12.07	0.982	-0.723	1.000	1.625	4.625	9.750	22232.0	45000.0	1.40	F111D
P64 816 807	8.27	2.387	-1.806	0.750	1.375	2.750	3.375	0.0	0.0	0.00	
P64 816 807	8.27	0.202	-0.146	8.125	14.750	17.500	19.125	0.0	0.0	0.00	
P641050 807	10.83	2.011	-1.506	4.375	6.500	6.750	7.875	14373.0	29900.0	1.25	F111D
P641115 807	11.25	2.997	-1.475	0.500	3.000	4.375	5.375	0.0	0.0	0.00	
P66 758 803	7.97	0.942	-0.709	1.375	2.375	3.500	12.000	36487.0	29300.0	1.29	F4
P66 8 8 803	8.13	0.345	-0.291	8.750	22.375	30.375	32.875	0.0	13000.0	1.10	F4
P661043 803	10.72	0.167	-0.181	54.000	77.000	185.000	29.375	37490.0	44400.0	1.37	F4
P66 719 804	7.32	0.312	-0.261	1.375	2.625	3.750	12.375	32139.0	41400.0	1.17	AT38
P66 730 804	7.50	0.272	-0.233	4.125	7.125	12.875	16.375	33769.0	32300.0	1.12	AT38
P66 736 804	7.60	0.439	-0.331	3.000	5.000	6.500	8.875	39815.0	16700.0	1.15	AT38
P66 756 804	7.93	0.853	-0.796	0.500	1.125	2.250	3.500	41439.0	41400.0	1.38	F15
P66 8 4 804	8.07	1.788	-1.179	0.250	0.625	1.125	1.750	35664.0	29700.0	1.20	F15
P66 810 804	8.17	1.017	-1.001	7.625	10.625	11.750	12.875	36415.0	12500.0	1.10	F15
P66 914 804	9.23	0.423	-0.420	2.125	3.625	4.875	6.000	30733.0	30300.0	1.20	AT38
P66 923 804	9.38	0.418	-0.303	4.125	11.875	15.125	19.375	30333.0	14000.0	1.10	AT38
P66 953 804	9.88	0.230	-0.211	2.875	5.125	877.875	12.625	0.0	0.0	0.00	
P661046 804	10.77	2.161	-1.950	2.000	2.875	2.750	4.375	37024.0	15200.0	1.13	F15
P6611 2 804	11.03	1.203	-1.001	5.750	6.875	6.875	26.500	29883.0	31000.0	1.28	F15
P66111 804	11.18	1.024	-0.796	1.375	9.125	10.375	18.500	49839.0	45000.0	1.42	F15
P66 820 805	8.33	0.716	-0.766	4.875	7.125	8.125	10.875	0.0	0.0	0.00	
P66 9 6 805	9.10	0.911	-0.742	4.000	6.375	7.500	8.750	22175.0	29500.0	1.25	F16
P66 926 805	9.43	0.921	-0.796	0.625	0.875	1.250	8.625	36962.0	64800.0	2.50	SR71
P66 934 805	9.57	0.921	-0.618	1.000	1.375	1.625	3.125	0.0	0.0	0.00	
P66 945 805	9.75	1.048	-0.749	3.250	4.000	3.375	5.375	0.0	0.0	0.00	
P661055 805	10.92	0.853	-0.644	0.750	1.500	2.375	8.000	0.0	73000.0	3.00	SR71
P6611 8 805	11.13	1.917	-1.186	3.875	5.125	6.000	8.250	29750.0	32400.0	1.23	SR71
P66114 805	11.73	0.444	-0.268	22.250	30.125	55.625	46.250	30617.0	14400.0	1.13	F16
P6612 4 805	12.07	2.145	-1.254	10.875	12.500	11.000	13.625	34729.0	30000.0	1.25	F16
P661235 805	12.58	1.358	-1.024	1.375	1.500	4.000	4.250	42731.0	52000.0	1.70	SR71

P661416 805	14.27	0.963	-0.829	1.250	1.875	1.750	11.250	0.0	33403.0	0.0	0.00	F18
P66 744 806	7.73	1.210	-1.059	0.500	1.250	2.000	3.125	30000.0	30000.0	1.30	0.00	F18
P66 757 806	7.95	0.930	-0.681	0.750	1.500	1.750	2.750	30270.0	44700.0	1.40	0.00	F18
P66 810 806	8.17	0.864	-0.402	90.875	93.375	89.750	96.125	24406.0	14200.0	1.10	0.00	F18
P661022 806	10.37	1.341	-1.045	1.625	2.250	10.875	15.500	32638.0	30000.0	1.30	0.00	F18
P661034 806	10.57	0.937	-0.792	3.625	5.500	5.875	8.250	33719.0	45000.0	1.43	0.00	F18
P661043 806	10.72	2.560	-1.785	0.625	0.875	1.250	5.375	42713.0	16500.0	1.27	0.00	F14
P661148 806	11.80	1.402	-0.982	8.875	11.000	9.375	13.250	32578.0	14000.0	1.20	0.00	F111D
P6612 4 806	12.07	1.240	-0.813	7.875	8.750	9.000	14.250	32792.0	45000.0	1.40	0.00	F111D
P6612 4 806	12.07	1.045	-0.949	21.375	37.875	34.625	44.750	32792.0	45000.0	1.40	0.00	F111D
P66 816 807	8.27	2.401	-1.520	6.000	34.000	35.875	36.750	0.0	0.0	0.00	F111D	
P661050 807	10.83	1.548	-1.224	1.625	2.500	13.875	15.875	24933.0	29900.0	1.25	0.00	F111D
P661115 807	11.25	1.527	-1.116	3.250	3.750	3.000	12.250	0.0	0.0	0.00	F111D	
P661119 807	11.32	0.174	-0.052	12.000	19.750	1871.750	30.875	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P1638 4 0	38.07	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	
P00 0 0 0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	0.00	F111D	

Augmented XB-70 Database (Noise Metrics)

FILE NAME	Time (hrs)	Pmax (PSF)	Pmin (PSF)	ESEL (dB)	ASEL (dB)	CSEL (dB)	PLDB (dB)	Sideline (Feet)	DFBR (Feet)	Altitude (Feet)	Mach #
R01M02.XY	11.23	1.600	-1.189	119.400	85.600	104.900	100.600	21349.6	38871.3	50500.0	1.83
R01M03.XY	11.23	1.750	-1.317	120.300	87.200	106.200	102.500	21349.6	38871.3	50500.0	1.83
R01M04.XY	11.23	1.710	-1.443	120.600	84.900	105.900	100.700	21349.6	38871.3	50500.0	1.83
R01M06.XY	11.23	2.100	-1.649	122.000	85.500	107.400	101.900	21349.6	38871.3	50500.0	1.83
R01M07.XY	11.23	1.200	-1.036	117.800	82.500	103.000	97.800	21349.6	38871.3	50500.0	1.83
R01M08.XY	11.23	1.790	-1.265	120.300	85.900	105.600	101.000	21349.6	38871.3	50500.0	1.83
R02M01.XY	12.22	3.550	-2.665	125.900	94.800	112.300	109.900	0.0	34988.7	48000.0	1.80
R02M02.XY	12.22	3.700	-2.773	126.300	95.300	113.400	111.600	0.0	34988.7	48000.0	1.80
R02M03.XY	12.22	3.050	-2.051	124.000	96.500	112.000	111.400	0.0	34988.7	48000.0	1.80
R02M04.XY	12.22	4.150	-3.321	127.000	92.000	115.000	110.100	0.0	34988.7	48000.0	1.80
R02M05.XY	12.22	4.250	-2.621	125.900	94.400	113.200	110.200	0.0	34988.7	48000.0	1.80
R02M07.XY	12.22	3.480	-2.871	126.500	95.500	113.000	111.400	0.0	34988.7	48000.0	1.80
R03M01.XY	8.00	1.470	-1.127	120.800	85.500	103.200	99.500	37535.6	33313.7	66000.0	2.60
R03M02.XY	8.00	1.630	-1.087	121.100	87.800	103.900	101.400	37535.6	33313.7	66000.0	2.60
R03M03.XY	8.00	1.690	-1.188	121.000	86.200	103.800	100.000	37535.6	33313.7	66000.0	2.60
R03M05.XY	8.01	1.250	-0.841	117.900	83.300	102.500	98.600	3636.3	28950.3	66000.0	2.60
R03M06.XY	8.01	1.750	-1.148	120.700	87.900	105.400	102.500	3636.3	28950.3	66000.0	2.60
R03M07.XY	8.01	1.700	-1.183	120.900	83.600	104.600	99.500	3636.3	28950.3	66000.0	2.60
R04M01.XY	7.53	2.850	-2.306	126.000	95.100	110.900	109.500	5791.6	58107.0	32000.0	1.23
R04M03.XY	7.53	3.150	-2.637	126.100	98.900	112.700	113.600	5791.6	58107.0	32000.0	1.23
R04M04.XY	7.53	2.750	-2.080	125.100	95.500	110.500	109.800	5791.6	58107.0	32000.0	1.23
R04M05.XY	7.53	2.050	-2.093	124.000	90.900	107.500	104.800	5791.6	58107.0	32000.0	1.23
R04M07.XY	7.53	2.370	-2.250	124.700	87.500	107.900	102.900	5791.6	58107.0	32000.0	1.23
R04M08.XY	7.53	2.300	-2.038	124.300	86.700	108.100	102.600	5791.6	58107.0	32000.0	1.23
R05M05.XY	7.67	2.150	-1.936	123.900	85.700	108.200	103.000	29667.2	64346.6	42300.0	1.38
R05M07.XY	7.67	2.180	-2.094	124.200	94.500	109.500	108.600	29667.2	64346.6	42300.0	1.38
R05M08.XY	7.67	2.000	-2.034	123.800	92.100	108.200	106.300	29667.2	64346.6	42300.0	1.38
R06M01.XY	13.50	0.320	-0.058	108.700	71.400	83.600	82.000	74248.0	109088.3	46000.0	1.40
R06M02.XY	13.50	0.300	-0.139	107.500	71.100	84.500	82.100	74248.0	109088.3	46000.0	1.40
R07M01.XY	11.98	2.130	-1.967	123.200	85.500	106.400	100.400	42784.5	70516.5	42500.0	1.42
R07M03.XY	11.98	2.150	-1.881	123.400	83.100	106.500	99.200	42784.5	70516.5	42500.0	1.42
R07M04.XY	11.98	2.080	-1.919	123.300	86.800	106.000	102.100	42784.5	70516.5	42500.0	1.42
R07M05.XY	11.99	1.330	-1.082	120.100	81.900	100.800	95.900	15315.4	51959.1	42500.0	1.42
R07M07.XY	11.99	1.420	-1.174	120.300	84.000	100.900	97.300	15315.4	51959.1	42500.0	1.42
R07M08.XY	11.99	1.270	-1.034	120.300	78.300	98.300	93.600	15315.4	51959.1	42500.0	1.42
R08M05.XY	12.42	2.810	-2.658	125.600	96.500	111.200	111.000	9761.6	36090.2	33800.0	1.50
R08M07.XY	12.42	3.050	-2.632	126.200	92.400	110.200	107.100	9761.6	36090.2	33800.0	1.50
R09M08.XY	12.42	3.280	-2.711	126.200	97.200	112.000	111.400	9761.6	36090.2	33800.0	1.50
R09M05.XY	12.33	2.590	-2.263	127.100	86.100	105.000	101.500	4129.4	43559.4	33000.0	1.35
R09M07.XY	12.33	2.410	-2.166	125.800	86.900	105.700	102.200	4129.4	43559.4	33000.0	1.35
R09M08.XY	12.33	2.440	-2.018	125.700	90.700	105.800	104.700	4129.4	43559.4	33000.0	1.35
R10M05.XY	12.72	2.990	-2.678	126.200	92.800	111.200	109.000	4376.0	35616.1	31000.0	1.42
R10M07.XY	12.72	3.900	-3.396	127.600	98.700	113.700	113.600	4376.0	35616.1	31000.0	1.42
R10M08.XY	12.72	4.270	-3.196	127.700	99.600	114.600	114.800	4376.0	35616.1	31000.0	1.42
R11M05.XY	13.53	2.650	-2.502	125.300	93.200	109.400	107.900	679.7	34421.8	34000.0	1.51
R11M07.XY	13.53	3.900	-2.497	125.600	101.100	112.800	115.300	679.7	34421.8	34000.0	1.51
R11M08.XY	13.53	4.100	-2.467	125.400	102.200	113.100	116.200	679.7	34421.8	34000.0	1.51
R12M05.XY	9.60	3.140	-2.261	125.100	91.000	110.500	107.200	13179.9	33015.1	41000.0	1.76
R12M07.XY	9.60	3.130	-2.140	125.100	89.000	110.200	106.100	13179.9	33015.1	41000.0	1.76
R12M08.XY	9.60	3.360	-2.145	125.300	92.000	110.500	107.600	13179.9	33015.1	41000.0	1.76

R13M01.XY	10.45	0.299	-0.222	108.000	72.800	89.300	85.100	61258.5	95298.9	50000.0	1.40
R13M02.XY	10.45	0.312	-0.251	107.900	76.300	91.200	88.100	61258.5	95298.9	50000.0	1.40
R13M03.XY	10.45	0.299	-0.190	107.000	75.000	90.700	86.800	61258.5	95298.9	50000.0	1.40
R13M04.XY	10.45	0.317	-0.280	108.800	76.700	91.800	88.700	61258.5	95298.9	50000.0	1.40
R13M05.XY	10.45	0.252	-0.136	105.600	71.600	87.500	83.900	61258.5	95298.9	50000.0	1.40
R13M07.XY	10.45	0.222	-0.189	104.800	74.900	89.300	86.600	61258.5	95298.9	50000.0	1.40
R14M05.XY	12.92	2.100	-1.551	122.100	90.500	106.500	104.200	34303.9	44502.1	50500.0	1.80
R14M07.XY	12.92	1.950	-1.428	121.200	91.500	106.400	104.900	34303.9	44502.1	50500.0	1.80
R15M05.XY	11.08	1.000	-0.920	117.700	80.100	99.900	95.300	32663.3	36965.6	41500.0	1.87
R15M07.XY	11.08	1.000	-0.868	117.400	75.200	98.700	91.400	32663.3	36965.6	41500.0	1.87
R15M08.XY	11.08	1.000	-0.803	116.400	82.200	99.700	96.400	32663.3	36965.6	41500.0	1.87
R16M01.XY	13.63	2.970	-2.665	125.500	99.300	112.100	113.700	12614.5	38626.7	41500.0	1.61
R16M02.XY	13.63	2.530	-2.507	124.900	89.500	108.700	104.500	12614.5	38626.7	41500.0	1.61
R16M03.XY	13.63	2.750	-2.689	125.500	94.900	110.900	109.900	12614.5	38626.7	41500.0	1.61
R16M04.XY	13.63	2.800	-2.687	125.600	95.600	110.800	110.000	12614.5	38626.7	41500.0	1.61
R16M05.XY	13.63	3.030	-2.840	126.100	95.500	111.300	110.000	12614.5	38626.7	41500.0	1.61
R16M07.XY	13.63	2.470	-2.735	125.400	90.300	109.600	106.200	12614.5	38626.7	41500.0	1.61
R17M01.XY	10.17	1.270	-0.878	118.500	80.800	101.400	96.100	62130.1	58816.5	53000.0	1.82
R17M02.XY	10.17	1.200	-0.770	117.900	79.900	101.300	95.600	62130.1	58816.5	53000.0	1.82
R17M03.XY	10.17	1.350	-0.759	118.200	85.800	102.300	99.600	62130.1	58816.5	53000.0	1.82
R17M04.XY	10.17	1.400	-0.718	118.100	82.100	102.200	97.800	62130.1	58816.5	53000.0	1.82
R17M05.XY	10.17	1.240	-0.832	118.300	79.400	101.000	94.600	62130.1	58816.5	53000.0	1.82
R17M07.XY	10.17	1.250	-0.788	117.900	84.100	101.500	98.100	62130.1	58816.5	53000.0	1.82
R18M01.XY	10.50	1.800	-1.141	121.400	90.000	105.200	103.600	30107.7	34212.1	60000.0	2.31
R18M02.XY	10.50	1.940	-1.085	122.200	90.500	106.100	105.000	30107.7	34212.1	60000.0	2.31
R18M03.XY	10.50	2.350	-1.339	123.500	94.400	107.900	107.700	30107.7	34212.1	60000.0	2.31
R18M04.XY	10.50	2.250	-1.417	123.400	87.400	107.000	102.600	30107.7	34212.1	60000.0	2.31
R18M05.XY	10.50	1.740	-1.054	121.100	84.700	104.100	99.700	30107.7	34212.1	60000.0	2.31
R18M07.XY	10.50	1.750	-1.036	120.700	88.200	105.300	102.400	30107.7	34212.1	60000.0	2.31
R19M01.XY	10.67	1.880	-1.318	121.300	86.000	105.600	101.200	36435.2	47650.3	54000.0	1.79
R19M02.XY	10.67	1.870	-1.201	121.100	85.200	105.100	99.800	36435.2	47650.3	54000.0	1.79
R19M03.XY	10.67	1.800	-1.250	120.900	88.200	104.900	102.300	36435.2	47650.3	54000.0	1.79
R19M04.XY	10.67	1.875	-1.415	121.800	89.300	106.200	103.400	36435.2	47650.3	54000.0	1.79
R19M05.XY	10.67	1.720	-1.199	120.700	89.200	104.700	102.400	36435.2	47650.3	54000.0	1.79
R19M07.XY	10.67	1.850	-1.235	120.800	89.300	105.400	102.800	36435.2	47650.3	54000.0	1.79
R20M01.XY	10.50	1.940	-1.797	123.400	87.300	106.900	102.700	0.0	30380.0	65500.0	2.48
R20M02.XY	10.50	1.970	-1.833	123.700	92.700	107.300	106.200	0.0	30380.0	65500.0	2.48
R20M03.XY	10.50	1.900	-1.692	123.400	90.500	106.300	104.500	0.0	30380.0	65500.0	2.48
R20M04.XY	10.50	1.990	-1.976	124.100	86.000	107.600	102.400	0.0	30380.0	65500.0	2.48
R20M05.XY	10.50	1.650	-1.594	122.600	85.000	105.400	100.200	0.0	30380.0	65500.0	2.48
R20M07.XY	10.50	1.800	-1.589	122.600	87.700	106.600	103.600	0.0	30380.0	65500.0	2.48
R21M05.X	13.25	3.150	-2.405	126.500	97.100	110.800	111.700	14098.4	31779.2	30500.0	1.55
R21M07.X	13.25	3.580	-2.866	126.900	95.500	111.300	110.700	14098.4	31779.2	30500.0	1.55
R21M08.X	13.25	3.190	-2.602	126.800	90.600	109.200	106.300	14098.4	31779.2	30500.0	1.55
R212M05.X	14.00	3.180	-3.633	128.300	96.100	111.700	111.100	44863.5	109830.6	38000.0	1.25
R212M07.X	14.00	3.010	-4.038	128.400	95.300	112.200	110.400	44863.5	109830.6	38000.0	1.25
R212M08.X	14.00	2.810	-3.404	127.600	89.300	109.400	105.000	44863.5	109830.6	38000.0	1.25
R22M01.XY	9.30	1.550	-0.862	118.300	86.200	103.000	100.500	8382.3	39292.3	37000.0	1.50
R22M03.XY	9.30	1.750	-1.155	121.900	87.800	105.600	102.300	8382.3	39292.3	37000.0	1.50
R22M04.XY	9.30	1.840	-1.319	121.900	86.100	105.800	101.200	8382.3	39292.3	37000.0	1.50
R22M05.XY	10.47	3.000	-3.038	126.700	97.600	111.400	111.800	31396.4	29518.4	70000.0	2.90
R22M07.XY	10.47	3.070	-2.681	126.200	95.300	111.400	110.100	31396.4	29518.4	70000.0	2.90
R22M08.XY	10.47	2.950	-2.603	126.700	93.600	110.800	108.500	31396.4	29518.4	70000.0	2.90
R23M01.XY	14.45	2.310	-1.461	122.000	88.200	108.300	103.900	10303.2	26985.1	70000.0	2.92
R23M02.XY	14.45	2.390	-1.425	122.100	87.800	108.400	103.900	10303.2	26985.1	70000.0	2.92
R23M03.XY	14.45	2.400	-1.350	122.000	86.800	108.200	103.300	10303.2	26985.1	70000.0	2.92
R23M04.XY	14.45	2.220	-1.284	121.200	92.900	108.300	106.600	10303.2	26985.1	70000.0	2.92
R24M07.XY	10.33	1.260	-1.089	119.400	84.300	102.600	98.600	42966.2	31445.0	69000.0	2.91
R25M01.XY	7.83	2.030	-1.219	121.800	79.500	103.400	95.100	41697.9	45253.1	44900.0	1.80
R25M02.XY	7.83	2.010	-1.368	122.200	87.100	104.900	101.500	41697.9	45253.1	44900.0	1.80

R25M03.XY	7.83	2.200	-1.321	122.700	89.100	105.600	102.900	41697.9	45253.1	44900.0	1.80
R25M05.XY	7.83	2.060	-1.236	122.100	82.900	104.200	98.300	41697.9	45253.1	44900.0	1.80
R25M07.XY	7.83	2.000	-1.119	121.500	78.300	102.900	94.200	41697.9	45253.1	44900.0	1.80
R25M08.XY	7.83	1.970	-1.287	121.600	81.100	103.200	96.000	41697.9	45253.1	44900.0	1.80
R26M01.XY	10.30	1.920	-1.343	122.200	86.200	105.800	101.000	12345.6	39728.2	66000.0	2.05
R26M02.XY	10.30	2.100	-1.898	124.000	93.100	108.000	106.600	12345.6	39728.2	66000.0	2.05
R26M03.XY	10.30	2.140	-1.720	123.900	87.700	107.400	103.300	12345.6	39728.2	66000.0	2.05
R26M04.XY	10.30	2.140	-2.176	124.700	86.500	107.500	101.800	12345.6	39728.2	66000.0	2.05
R26M05.XY	10.30	1.850	-1.580	122.700	86.500	106.200	101.500	12345.6	39728.2	66000.0	2.05
R26M07.XY	10.30	1.800	-1.639	123.000	89.300	106.300	103.400	12345.6	39728.2	66000.0	2.05
R27M01.XY	11.88	2.650	-1.143	121.600	86.700	106.300	101.400	4336.5	33788.5	45100.0	1.78
R27M02.XY	11.88	4.100	-1.156	121.800	92.100	110.400	108.500	4336.5	33788.5	45100.0	1.78
R27M03.XY	11.88	3.300	-1.087	121.400	89.800	108.700	105.900	4336.5	33788.5	45100.0	1.78
R27M04.XY	11.88	3.850	-1.032	122.100	89.200	109.800	106.100	4336.5	33788.5	45100.0	1.78
R27M05.XY	11.88	2.650	-1.041	120.800	86.300	106.700	102.000	4336.5	33788.5	45100.0	1.78
R27M07.XY	11.88	3.150	-0.975	120.800	90.000	108.900	105.800	4336.5	33788.5	45100.0	1.78
R28M02.XY	11.67	3.500	-2.203	126.000	87.700	109.800	103.500	20803.9	35615.2	41000.0	1.75
R28M03.XY	11.67	2.900	-2.228	125.800	88.500	107.800	104.000	20803.9	35615.2	41000.0	1.75
R28M04.XY	11.67	3.350	-2.396	126.200	87.000	110.100	104.200	20803.9	35615.2	41000.0	1.75
R28M05.XY	11.68	3.250	-2.446	126.500	93.600	110.100	109.300	1617.5	30478.8	42000.0	1.82
R28M07.XY	11.68	3.500	-2.534	126.900	93.000	111.000	108.700	1617.5	30478.8	42000.0	1.82
R28M08.XY	11.68	4.100	-2.565	127.300	92.100	111.600	107.700	1617.5	30478.8	42000.0	1.82
R28M09.XY	11.68	3.500	-2.647	127.300	90.400	109.200	106.200	1617.5	30478.8	42000.0	1.82
R28M11.XY	11.68	3.950	-2.688	127.200	88.700	110.600	105.100	1617.5	30478.8	42000.0	1.82
R28M12.XY	11.68	3.250	-2.586	126.700	90.800	109.500	106.900	1617.5	30478.8	42000.0	1.82
R29M02.XY	15.53	3.980	-3.218	129.200	92.700	111.000	108.600	6830.5	107588.3	41000.0	1.17
R29M03.XY	15.53	3.860	-3.113	129.300	92.700	109.200	106.900	6830.5	107588.3	41000.0	1.17
R29M04.XY	15.53	3.710	-3.395	129.200	93.900	111.800	109.400	6830.5	107588.3	41000.0	1.17
R29M05.XY	15.54	3.350	-2.816	127.100	88.500	110.300	105.500	11649.8	110456.8	40000.0	1.17
R29M07.XY	15.54	3.250	-3.015	127.500	89.200	111.200	106.500	11649.8	110456.8	40000.0	1.17
R29M08.XY	15.54	3.140	-2.951	127.300	93.200	110.800	108.000	11649.8	110456.8	40000.0	1.17
R29M09.XY	15.54	2.940	-2.613	126.700	88.500	110.300	105.400	11649.8	110456.8	40000.0	1.17
R29M11.XY	15.54	2.850	-2.945	127.200	93.300	111.300	109.000	11649.8	110456.8	40000.0	1.17
R29M12.XY	15.54	3.570	-3.186	128.000	89.000	111.000	106.400	11649.8	110456.8	40000.0	1.17
R30M02.XY	10.50	1.840	-1.546	122.400	83.500	104.500	99.000	3765.7	29191.4	68500.0	2.66
R30M03.XY	10.50	1.730	-1.411	122.000	85.400	105.200	100.400	3765.7	29191.4	68500.0	2.66
R30M04.XY	10.50	1.890	-1.545	122.300	84.900	106.200	100.700	3765.7	29191.4	68500.0	2.66
R30M05.XY	10.51	1.580	-1.172	120.800	82.400	103.400	98.000	18175.1	30479.4	69300.0	2.66
R30M06.XY	10.51	1.640	-1.167	121.100	80.300	103.800	97.000	18175.1	30479.4	69300.0	2.66
R30M07.XY	10.51	1.750	-1.313	121.800	84.200	104.600	99.100	18175.1	30479.4	69300.0	2.66
R30M08.XY	10.51	1.870	-1.358	122.500	81.400	104.800	97.600	18175.1	30479.4	69300.0	2.66
R30M09.XY	10.51	1.700	-1.334	122.100	82.300	104.000	98.000	18175.1	30479.4	69300.0	2.66
R30M10.XY	10.51	1.780	-1.463	122.600	81.400	104.500	98.000	18175.1	30479.4	69300.0	2.66
R31M02.XY	10.25	1.830	-1.375	121.800	90.900	105.300	104.600	44358.2	32813.6	66000.0	2.74
R31M03.XY	10.25	2.020	-1.226	121.200	84.200	106.200	100.800	44358.2	32813.6	66000.0	2.74
R31M04.XY	10.25	1.740	-1.272	121.400	83.500	104.300	98.400	44358.2	32813.6	66000.0	2.74
R31M05.XY	10.26	1.520	-1.148	120.200	83.700	104.000	99.400	32738.2	30366.6	66000.0	2.74
R31M06.XY	10.26	1.530	-1.151	120.300	83.400	103.500	98.300	32738.2	30366.6	66000.0	2.74
R31M07.XY	10.26	1.650	-1.192	120.700	83.200	104.100	99.000	32738.2	30366.6	66000.0	2.74
R31M08.XY	10.26	1.670	-1.259	120.900	86.500	104.600	101.300	32738.2	30366.6	66000.0	2.74
R32M02.XY	12.17	1.910	-1.535	122.500	84.300	105.600	100.300	9039.8	27905.4	70300.0	2.84
R32M03.XY	12.17	2.250	-1.605	122.700	85.700	107.000	101.400	9039.8	27905.4	70300.0	2.84
R32M04.XY	12.17	2.230	-1.589	122.900	94.000	107.700	108.000	9039.8	27905.4	70300.0	2.84
R32M05.XY	12.18	1.750	-1.506	122.300	84.900	105.200	100.400	3855.9	27717.3	70300.0	2.84
R32M06.XY	12.18	1.670	-1.813	123.200	84.200	105.200	99.900	3855.9	27717.3	70300.0	2.84
R32M07.XY	12.18	1.810	-1.429	121.800	81.300	104.300	97.500	3855.9	27717.3	70300.0	2.84
R32M08.XY	12.18	1.910	-1.273	122.000	78.400	104.200	95.400	3855.9	27717.3	70300.0	2.84
R32M09.XY	12.18	1.660	-1.358	122.300	87.000	104.400	101.200	3855.9	27717.3	70300.0	2.84
R32M10.XY	12.18	1.630	-1.534	122.600	85.400	104.500	100.300	3855.9	27717.3	70300.0	2.84
R33M02.XY	10.88	2.900	-2.553	125.600	89.700	110.600	106.300	30342.2	43183.1	51000.0	1.80

R33M03.XY	10.88	3.150	-2.501	125.900	89.400	110.900	106.800	30342.2	43183.1	51000.0	1.80
R33M04.XY	10.88	2.850	-2.512	125.800	92.400	110.200	107.000	30342.2	43183.1	51000.0	1.80
R33M05.XY	10.89	1.565	-1.214	120.400	86.500	104.300	101.000	1933.7	37020.1	51000.0	1.80
R33M06.XY	10.89	2.050	-1.509	122.500	86.800	106.500	102.700	1933.7	37020.1	51000.0	1.80
R33M07.XY	10.89	2.150	-1.558	122.700	86.400	106.900	103.100	1933.7	37020.1	51000.0	1.80
R33M08.XY	10.89	2.150	-1.499	122.600	87.700	107.200	103.100	1933.7	37020.1	51000.0	1.80
R33M09.XY	10.89	1.774	-1.217	120.500	81.800	105.000	97.400	1933.7	37020.1	51000.0	1.80
R33M10.XY	10.89	2.100	-1.468	121.700	85.600	107.000	101.500	1933.7	37020.1	51000.0	1.80
R34M02.X	11.62	3.100	-2.865	126.600	90.900	110.400	107.000	45073.2	59818.1	44000.0	1.56
R34M03.X	11.62	3.250	-2.812	126.600	85.700	107.000	101.100	45073.2	59818.1	44000.0	1.56
R34M04.X	11.62	2.650	-2.583	125.500	85.700	106.700	101.000	45073.2	59818.1	44000.0	1.56
R34M05.X	11.63	1.550	-1.135	119.500	79.500	102.100	94.600	12424.4	42893.0	44000.0	1.56
R34M06.X	11.63	1.970	-0.967	119.400	83.000	101.500	97.100	12424.4	42893.0	44000.0	1.56
R34M07.X	11.63	2.100	-1.105	120.500	80.500	101.800	95.100	12424.4	42893.0	44000.0	1.56
R34M08.X	11.63	1.950	-1.112	119.800	81.800	102.800	96.400	12424.4	42893.0	44000.0	1.56
R34M09.X	11.63	2.000	-1.250	120.500	80.200	102.800	95.700	12424.4	42893.0	44000.0	1.56
R34M10.X	11.63	2.000	-1.029	119.900	79.600	101.700	95.100	12424.4	42893.0	44000.0	1.56
R34M02.X	11.87	1.650	-1.082	121.000	76.200	98.500	91.800	49614.0	83739.4	36400.0	1.36
R34M03.X	11.87	1.600	-1.236	121.600	78.900	99.300	95.100	49614.0	83739.4	36400.0	1.36
R34M04.X	11.87	1.550	-0.955	120.200	75.400	97.300	90.600	49614.0	83739.4	36400.0	1.36
R34M05.X	11.88	1.400	-0.792	117.500	78.700	100.300	93.600	46177.4	79606.8	36400.0	1.36
R34M06.X	11.88	1.200	-0.814	118.100	76.900	97.300	89.700	46177.4	79606.8	36400.0	1.36
R34M07.X	11.88	1.300	-0.958	118.800	78.000	98.100	90.400	46177.4	79606.8	36400.0	1.36
R34M08.X	11.88	1.350	-0.915	118.200	77.100	98.700	90.500	46177.4	79606.8	36400.0	1.36
R34M09.X	11.88	1.450	-0.914	118.800	77.300	99.200	92.300	46177.4	79606.8	36400.0	1.36
R34M10.X	11.88	1.150	-0.811	117.800	74.300	97.400	88.200	46177.4	79606.8	36400.0	1.36
R35M05.XY	11.63	2.900	-2.457	126.600	84.200	107.700	100.400	3011.4	48586.6	52000.0	1.55
R35M06.XY	11.63	2.800	-2.423	126.500	83.200	105.100	99.200	3011.4	48586.6	52000.0	1.55
R35M07.XY	11.63	2.900	-2.407	126.600	83.600	104.900	98.700	3011.4	48586.6	52000.0	1.55
R35M08.XY	11.63	2.620	-1.893	124.700	82.700	106.000	98.900	3011.4	48586.6	52000.0	1.55
R35M09.XY	11.63	3.200	-2.530	127.100	85.700	108.800	102.700	3011.4	48586.6	52000.0	1.55
R35M10.XY	11.63	2.750	-2.439	126.300	82.200	105.200	98.700	3011.4	48586.6	52000.0	1.55
R35M11.XY	11.63	2.750	-2.431	126.400	81.100	104.300	96.400	3011.4	48586.6	52000.0	1.55
R35M12.XY	11.63	2.800	-2.348	125.900	82.600	107.000	99.400	3011.4	48586.6	52000.0	1.55
R36M05.XY	16.77	1.900	-1.507	123.000	81.600	102.000	96.800	29468.5	32027.1	53000.0	2.26
R36M06.XY	16.77	1.900	-1.661	123.000	86.000	104.800	101.300	29468.5	32027.1	53000.0	2.26
R36M07.XY	16.77	1.600	-1.469	121.900	82.100	102.300	97.000	29468.5	32027.1	53000.0	2.26
R36M08.XY	16.77	1.950	-1.842	123.600	81.600	104.300	97.900	29468.5	32027.1	53000.0	2.26
R36M09.XY	16.77	1.500	-1.310	121.100	80.400	99.900	94.200	29468.5	32027.1	53000.0	2.26
R36M10.XY	16.77	1.200	-1.136	119.300	84.200	100.800	97.800	29468.5	32027.1	53000.0	2.26
R37M02.X	12.92	2.450	-1.983	124.800	84.900	104.200	99.300	70589.5	51856.5	64000.0	2.20
R37M03.X	12.92	2.850	-2.176	125.200	86.800	108.000	103.100	70589.5	51856.5	64000.0	2.20
R37M04.X	12.92	2.550	-1.945	124.400	84.300	104.900	99.000	70589.5	51856.5	64000.0	2.20
R37M05.X	12.93	1.120	-0.675	116.400	78.400	99.900	94.600	14429.3	35416.2	64000.0	2.20
R37M06.X	12.93	0.960	-0.667	116.100	76.900	98.800	92.200	14429.3	35416.2	64000.0	2.20
R37M08.X	12.93	0.880	-0.634	115.500	76.000	97.500	91.300	14429.3	35416.2	64000.0	2.20
R37M11.X	12.93	1.190	-0.631	116.600	77.500	98.400	92.300	14429.3	35416.2	64000.0	2.20
R37M12.X	12.93	0.970	-0.603	116.300	75.500	94.900	89.700	14429.3	35416.2	64000.0	2.20
R38M14.XY	10.32	2.310	-2.314	124.900	88.400	108.000	104.300	3744.8	64628.0	44300.0	1.30
R38M15.XY	10.32	2.120	-2.243	124.400	97.800	108.900	111.500	3744.8	64628.0	44300.0	1.30
R38M16.XY	10.32	2.250	-2.300	124.800	91.600	108.300	106.800	3744.8	64628.0	44300.0	1.30
R39M02.XY	12.67	2.570	-1.584	121.500	100.300	112.500	114.600	25729.4	86275.2	39800.0	1.24
R39M03.XY	12.67	1.660	-1.828	122.100	88.500	106.200	103.300	25729.4	86275.2	39800.0	1.24
R39M04.XY	12.67	3.070	-1.793	122.600	98.700	112.900	113.800	25729.4	86275.2	39800.0	1.24
R39M05.XY	12.67	2.530	-1.415	120.600	94.900	108.900	109.600	25729.4	86275.2	39800.0	1.24
R39M06.XY	12.67	1.790	-2.066	122.800	89.200	107.200	104.400	25729.4	86275.2	39800.0	1.24
R39M07.XY	12.67	1.840	-1.835	122.200	90.900	107.900	104.900	25729.4	86275.2	39800.0	1.24
R39M08.XY	12.67	2.020	-1.853	122.700	89.500	108.400	104.700	25729.4	86275.2	39800.0	1.24
R40M01.XY	0.00	2.100	-1.818	123.800	87.200	105.000	101.800	6000.0	0.0	52900.0	1.81
R40M02.XY	0.00	2.130	-1.931	124.200	85.000	105.500	100.500	6000.0	0.0	52900.0	1.81

R40M03.XY	0.00	2.260	-1.989	124.400	86.200	106.400	102.000	6000.0	0.0	52900.0	1.81
R40M05.XY	0.00	2.220	-1.883	123.900	89.100	107.200	104.300	6000.0	0.0	52900.0	1.81
R40M06.XY	0.00	2.350	-2.148	124.600	87.400	107.700	103.100	6000.0	0.0	52900.0	1.81
R40M07.XY	0.00	2.170	-1.300	122.200	86.800	106.000	101.900	6000.0	0.0	52900.0	1.81
R40M08.XY	0.00	2.820	-2.268	125.200	91.500	109.800	107.600	6000.0	0.0	52900.0	1.81
R40M09.XY	0.00	3.120	-2.040	124.600	93.800	110.400	109.000	6000.0	0.0	52900.0	1.81
R40M10.XY	0.00	3.000	-2.160	125.200	90.400	109.900	106.000	6000.0	0.0	52900.0	1.81
R40M11.XY	0.00	2.980	-2.199	125.300	91.200	109.700	106.500	6000.0	0.0	52900.0	1.81
R40M12.XY	0.00	2.800	-2.070	125.000	91.100	108.900	105.300	6000.0	0.0	52900.0	1.81
R40M13.XY	0.00	2.750	-1.915	125.100	90.900	108.600	106.100	6000.0	0.0	52900.0	1.81
R40M14.XY	0.00	2.650	-2.407	125.800	88.000	107.900	102.700	6000.0	0.0	52900.0	1.81
R40M15.XY	0.00	2.350	-2.113	125.000	93.300	108.500	107.500	6000.0	0.0	52900.0	1.81
R40M16.XY	0.00	2.900	-2.070	125.400	89.000	108.500	104.200	6000.0	0.0	52900.0	1.81
R41M01.XY	0.01	1.700	-1.446	121.700	91.000	106.100	103.400	70.0	0.0	72000.0	2.83
R41M02.XY	0.01	1.750	-1.650	122.300	89.100	105.900	103.700	70.0	0.0	72000.0	2.83
R41M03.XY	0.01	1.890	-1.626	122.900	90.200	106.000	104.100	70.0	0.0	72000.0	2.83
R41M04.XY	0.01	1.770	-1.532	122.300	89.800	105.500	103.600	70.0	0.0	72000.0	2.83
R41M05.XY	0.01	1.620	-1.482	121.700	83.400	104.100	99.200	70.0	0.0	72000.0	2.83
R41M06.XY	0.01	1.620	-1.627	122.300	86.300	105.000	101.100	70.0	0.0	72000.0	2.83
R41M07.XY	0.01	1.870	-1.562	123.000	84.800	104.900	99.800	70.0	0.0	72000.0	2.83
R41M08.XY	0.01	1.770	-1.448	122.200	90.000	104.800	103.600	70.0	0.0	72000.0	2.83
R41M09.XY	0.01	1.650	-1.505	122.200	84.900	103.700	99.300	70.0	0.0	72000.0	2.83
R41M10.XY	0.01	1.650	-1.548	122.600	87.400	104.900	101.600	70.0	0.0	72000.0	2.83
R41M11.XY	0.01	1.670	-1.505	122.700	83.200	104.000	97.700	70.0	0.0	72000.0	2.83
R41M12.XY	0.01	1.660	-1.566	122.700	88.500	104.600	102.300	70.0	0.0	72000.0	2.83
R41M13.XY	0.01	1.700	-1.450	122.100	89.600	105.700	103.700	70.0	0.0	72000.0	2.83
R41M14.XY	0.01	2.050	-1.579	122.500	92.500	108.300	107.100	70.0	0.0	72000.0	2.83
R41M15.XY	0.01	2.100	-1.474	122.300	89.700	107.700	104.600	70.0	0.0	72000.0	2.83
R41M16.XY	0.01	1.900	-1.405	122.200	87.100	105.800	102.300	70.0	0.0	72000.0	2.83

Augmented XB-70 Database (Rise Times)

FILE NAME	Time (Hrs)	Pmax (PSF)	Pmin (PSF)	t50 (ms)	t75 (ms)	t90 (ms)	ti00 (ms)	Sideline (Feet)	DFBR (Feet)	Altitude (Feet)	Mach #
R01M02.XY	11.23	1.600	-1.189	1.125	1.875	4.500	6.000	21349.6	38871.3	50500.0	1.83
R01M03.XY	11.23	1.750	-1.317	1.000	1.125	3.000	4.625	21349.6	38871.3	50500.0	1.83
R01M04.XY	11.23	1.710	-1.443	1.500	2.125	4.750	7.625	21349.6	38871.3	50500.0	1.83
R01M06.XY	11.23	2.100	-1.649	2.000	3.625	5.125	8.875	21349.6	38871.3	50500.0	1.83
R01M07.XY	11.23	1.200	-1.036	2.875	4.250	4.875	20.625	21349.6	38871.3	50500.0	1.83
R01M08.XY	11.23	1.790	-1.265	1.500	2.875	4.375	6.375	21349.6	38871.3	50500.0	1.83
R02M01.XY	12.22	3.550	-2.665	2.750	6.750	7.375	8.375	0.0	34988.7	48000.0	1.80
R02M02.XY	12.22	3.700	-2.773	2.000	4.875	5.375	7.000	0.0	34988.7	48000.0	1.80
R02M03.XY	12.22	3.050	-2.051	1.875	2.250	6.000	10.875	0.0	34988.7	48000.0	1.80
R02M04.XY	12.22	4.150	-3.321	3.625	5.000	8.000	9.875	0.0	34988.7	48000.0	1.80
R02M05.XY	12.22	4.250	-2.621	3.375	9.250	10.375	12.875	0.0	34988.7	48000.0	1.80
R02M07.XY	12.22	3.480	-2.871	3.125	3.875	1.625	4.625	0.0	34988.7	48000.0	1.80
R03M01.XY	8.00	1.470	-1.127	0.750	2.375	5.125	7.500	37535.6	33313.7	66000.0	2.60
R03M02.XY	8.00	1.630	-1.087	0.500	2.000	5.750	7.750	37535.6	33313.7	66000.0	2.60
R03M03.XY	8.00	1.690	-1.188	0.500	4.500	7.000	10.500	37535.6	33313.7	66000.0	2.60
R03M05.XY	8.01	1.250	-0.841	1.250	1.250	2.750	4.500	3636.3	28950.3	66000.0	2.60
R03M06.XY	8.01	1.750	-1.148	1.125	1.250	3.125	5.750	3636.3	28950.3	66000.0	2.60
R03M07.XY	8.01	1.700	-1.183	1.625	2.875	4.500	8.250	3636.3	28950.3	66000.0	2.60
R04M01.XY	7.53	2.850	-2.306	0.625	2.125	26.250	62.250	5791.6	58107.0	32000.0	1.23
R04M03.XY	7.53	3.150	-2.637	0.375	0.500	55.375	55.875	5791.6	58107.0	32000.0	1.23
R04M04.XY	7.53	2.750	-2.080	0.250	3.375	27.125	59.500	5791.6	58107.0	32000.0	1.23
R04M05.XY	7.53	2.050	-2.093	0.500	4.500	30.875	65.250	5791.6	58107.0	32000.0	1.23
R04M07.XY	7.53	2.370	-2.250	3.125	7.750	61.500	67.500	5791.6	58107.0	32000.0	1.23
R04M08.XY	7.53	2.300	-2.038	3.250	4.625	59.875	62.375	5791.6	58107.0	32000.0	1.23
R05M05.XY	7.67	2.150	-1.936	1.875	2.875	3.000	4.875	29667.2	64346.6	42300.0	1.38
R05M07.XY	7.67	2.180	-2.094	0.375	0.500	1.000	2.750	29667.2	64346.6	42300.0	1.38
R05M08.XY	7.67	2.000	-2.034	0.500	0.750	2.375	38.500	29667.2	64346.6	42300.0	1.38
R06M01.XY	13.50	0.320	-0.058	31.125	42.625	41.875	55.375	74248.0	109088.3	46000.0	1.40
R06M02.XY	13.50	0.300	-0.139	30.375	43.500	51.000	114.375	74248.0	109088.3	46000.0	1.40
R07M01.XY	11.98	2.130	-1.967	5.625	9.625	10.375	13.375	42784.5	70516.5	42500.0	1.42
R07M03.XY	11.98	2.150	-1.881	4.625	5.750	9.000	15.375	42784.5	70516.5	42500.0	1.42
R07M04.XY	11.98	2.080	-1.919	5.375	7.500	28.375	33.750	42784.5	70516.5	42500.0	1.42
R07M05.XY	11.99	1.330	-1.082	10.375	44.875	74.750	83.250	15315.4	51959.1	42500.0	1.42
R07M07.XY	11.99	1.420	-1.174	19.875	22.750	64.000	71.125	15315.4	51959.1	42500.0	1.42
R07M08.XY	11.99	1.270	-1.034	11.375	27.125	41.875	72.000	15315.4	51959.1	42500.0	1.42
R08M05.XY	12.42	2.810	-2.658	2.500	2.750	1.500	40.875	9761.6	36090.2	33800.0	1.50
R08M07.XY	12.42	3.050	-2.632	1.750	4.000	8.125	15.625	9761.6	36090.2	33800.0	1.50
R08M08.XY	12.42	3.280	-2.711	1.875	2.125	2.625	5.750	9761.6	36090.2	33800.0	1.50
R09M05.XY	12.33	2.590	-2.263	10.500	21.125	49.375	60.000	4129.4	43559.4	33000.0	1.35
R09M07.XY	12.33	2.410	-2.166	10.125	45.000	46.500	57.625	4129.4	43559.4	33000.0	1.35
R10M08.XY	12.33	2.440	-2.018	11.250	22.000	42.750	63.000	4129.4	43559.4	33000.0	1.35
R10M05.XY	12.72	2.990	-2.678	4.250	4.875	2.750	10.875	4376.0	35616.1	31000.0	1.42
R10M07.XY	12.72	3.900	-3.396	2.250	2.500	1.500	7.375	4376.0	35616.1	31000.0	1.42
R10M08.XY	12.72	4.270	-3.196	0.500	0.625	0.750	1.375	4376.0	35616.1	31000.0	1.42
R11M05.XY	13.53	2.650	-2.502	1.250	1.625	5.375	7.250	679.7	34421.8	34000.0	1.51
R11M07.XY	13.53	3.900	-2.497	1.250	1.750	1.250	2.000	679.7	34421.8	34000.0	1.51
R11M08.XY	13.53	4.100	-2.467	0.750	0.875	0.625	1.125	679.7	34421.8	34000.0	1.51
R12M05.XY	9.60	3.140	-2.261	2.625	3.500	2.750	8.125	13179.9	33015.1	41000.0	1.76
R12M07.XY	9.60	3.130	-2.140	1.875	2.625	3.125	7.125	13179.9	33015.1	41000.0	1.76
R12M08.XY	9.60	3.360	-2.145	1.000	1.500	6.125	12.000	13179.9	33015.1	41000.0	1.76

R13M01.XY	10.45	0.299	-0.222	9.625	74.500	86.250	93.000	61258.5	95298.9	50000.0	1.40
R13M02.XY	10.45	0.312	-0.251	12.875	19.375	80.000	90.125	61258.5	95298.9	50000.0	1.40
R13M03.XY	10.45	0.299	-0.190	11.125	15.125	80.875	92.750	61258.5	95298.9	50000.0	1.40
R13M04.XY	10.45	0.317	-0.280	19.000	64.875	88.875	95.250	61258.5	95298.9	50000.0	1.40
R13M05.XY	10.45	0.259	-0.136	30.875	75.500	96.375	116.000	61258.5	95298.9	50000.0	1.40
R13M07.XY	10.45	0.222	-0.189	7.125	15.250	75.250	82.375	61258.5	95298.9	50000.0	1.40
R14M05.XY	12.92	2.100	-1.551	5.250	5.375	4.500	9.125	34303.9	44502.1	50500.0	1.80
R14M07.XY	12.92	1.950	-1.428	0.500	2.125	2.000	2.500	34303.9	44502.1	50500.0	1.80
R15M05.XY	11.08	1.000	-0.920	2.500	3.125	3.625	31.375	32663.3	36965.6	41500.0	1.87
R15M07.XY	11.08	1.000	-0.868	2.750	5.000	11.375	18.375	32663.3	36965.6	41500.0	1.87
R15M08.XY	11.08	1.000	-0.803	2.750	3.875	3.000	4.625	32663.3	36965.6	41500.0	1.87
R16M01.XY	13.63	2.970	-2.665	0.750	0.875	0.875	1.375	12614.5	38626.7	41500.0	1.61
R16M02.XY	13.63	2.530	-2.507	2.125	5.500	7.625	32.625	12614.5	38626.7	41500.0	1.61
R16M03.XY	13.63	2.750	-2.689	2.500	3.250	4.500	34.250	12614.5	38626.7	41500.0	1.61
R16M04.XY	13.63	2.800	-2.687	3.500	4.250	2.250	34.250	12614.5	38626.7	41500.0	1.61
R16M05.XY	13.63	3.030	-2.840	8.125	11.125	6.375	37.125	12614.5	38626.7	41500.0	1.61
R16M07.XY	13.63	2.470	-2.735	2.875	3.500	11.250	31.125	12614.5	38626.7	41500.0	1.61
R17M01.XY	10.17	1.270	-0.878	5.375	6.125	5.625	11.125	62130.1	58816.5	53000.0	1.82
R17M02.XY	10.17	1.200	-0.770	2.125	2.875	3.625	9.000	62130.1	58816.5	53000.0	1.82
R17M03.XY	10.17	1.350	-0.759	3.500	3.625	2.000	16.125	62130.1	58816.5	53000.0	1.82
R17M04.XY	10.17	1.400	-0.718	2.625	4.375	4.375	7.375	62130.1	58816.5	53000.0	1.82
R17M05.XY	10.17	1.240	-0.832	4.875	5.500	5.500	12.000	62130.1	58816.5	53000.0	1.82
R17M07.XY	10.17	1.250	-0.788	2.875	4.500	3.250	7.250	62130.1	58816.5	53000.0	1.82
R18M01.XY	10.50	1.800	-1.141	0.500	0.625	5.375	15.250	30107.7	34212.1	60000.0	2.31
R18M02.XY	10.50	1.940	-1.085	1.250	1.375	1.250	8.625	30107.7	34212.1	60000.0	2.31
R18M03.XY	10.50	2.350	-1.339	0.125	0.250	0.750	6.375	30107.7	34212.1	60000.0	2.31
R18M04.XY	10.50	2.250	-1.417	1.625	3.750	5.000	7.375	30107.7	34212.1	60000.0	2.31
R18M05.XY	10.50	1.740	-1.054	0.875	3.125	8.875	10.375	30107.7	34212.1	60000.0	2.31
R18M07.XY	10.50	1.750	-1.036	2.000	2.750	2.250	7.125	30107.7	34212.1	60000.0	2.31
R19M01.XY	10.67	1.880	-1.318	1.500	2.125	5.375	6.500	36435.2	47650.3	54000.0	1.79
R19M02.XY	10.67	1.870	-1.201	1.375	4.000	5.500	9.750	36435.2	47650.3	54000.0	1.79
R19M03.XY	10.67	1.800	-1.250	0.875	2.500	7.000	9.125	36435.2	47650.3	54000.0	1.79
R19M04.XY	10.67	1.875	-1.415	1.000	2.375	5.375	14.750	36435.2	47650.3	54000.0	1.79
R19M05.XY	10.67	1.720	-1.199	0.125	1.125	4.625	14.875	36435.2	47650.3	54000.0	1.79
R20M07.XY	10.67	1.850	-1.235	0.500	3.875	3.875	6.875	36435.2	47650.3	54000.0	1.79
R20M01.XY	10.50	1.940	-1.797	1.875	4.250	5.500	7.750	0.0	30380.0	65500.0	2.48
R20M02.XY	10.50	1.970	-1.833	0.125	1.250	4.625	16.750	0.0	30380.0	65500.0	2.48
R20M03.XY	10.50	1.900	-1.692	0.250	1.375	6.125	16.750	0.0	30380.0	65500.0	2.48
R20M04.XY	10.50	1.990	-1.976	2.875	4.500	4.125	10.375	0.0	30380.0	65500.0	2.48
R20M05.XY	10.50	1.650	-1.594	3.375	4.875	4.500	11.125	0.0	30380.0	65500.0	2.48
R21M07.XY	10.50	1.800	-1.589	1.250	1.750	1.750	11.875	0.0	30380.0	65500.0	2.48
R21M05.X	13.25	3.150	-2.405	0.625	0.750	0.375	2.125	14098.4	31779.2	30500.0	1.55
R21M07.X	13.25	3.580	-2.866	1.500	2.125	1.875	28.000	14098.4	31779.2	30500.0	1.55
R21M08.X	13.25	3.190	-2.602	2.750	7.125	10.750	36.250	14098.4	31779.2	30500.0	1.55
R21M05.X	14.00	3.180	-3.633	4.125	4.250	62.500	64.000	44863.5	109830.6	36000.0	1.25
R21M07.X	14.00	3.010	-4.038	2.500	4.250	65.125	67.500	44863.5	109830.6	36000.0	1.25
R21M08.X	14.00	2.810	-3.404	5.750	44.250	62.500	68.750	44863.5	109830.6	36000.0	1.25
R22M01.XY	9.30	1.550	-0.862	2.500	3.625	3.125	4.875	8382.3	39292.3	37000.0	1.50
R22M03.XY	9.30	1.750	-1.155	4.375	6.875	5.125	11.625	8382.3	39292.3	37000.0	1.50
R22M04.XY	9.30	1.840	-1.319	7.125	8.125	4.625	12.000	8382.3	39292.3	37000.0	1.50
R22M05.XY	10.47	3.000	-3.038	1.625	2.125	5.250	10.750	31396.4	29518.4	70000.0	2.90
R22M07.XY	10.47	3.070	-2.681	0.375	1.125	4.375	5.250	31396.4	29518.4	70000.0	2.90
R22M08.XY	10.47	2.950	-2.603	1.375	1.625	4.875	6.500	31396.4	29518.4	70000.0	2.90
R23M01.XY	14.45	2.310	-1.461	8.375	8.875	6.000	13.500	10303.2	26985.1	70000.0	2.92
R23M02.XY	14.45	2.390	-1.425	7.500	8.875	7.250	11.875	10303.2	26985.1	70000.0	2.92
R23M03.XY	14.45	2.400	-1.350	10.000	10.625	8.250	12.625	10303.2	26985.1	70000.0	2.92
R23M04.XY	14.45	2.220	-1.284	9.125	9.250	5.125	9.625	10303.2	26985.1	70000.0	2.92
R24M07.XY	10.33	1.260	-1.089	2.250	3.375	4.375	8.250	42966.2	31445.0	69800.0	2.91
R25M01.XY	7.83	2.030	-1.219	5.750	9.500	15.625	32.375	41697.9	44900.0	44900.0	1.80
R25M02.XY	7.83	2.010	-1.368	2.125	5.625	5.375	33.625	41697.9	44900.0	44900.0	1.80

R25M03.XY	7.83	2.200	-1.321	0.750	5.125	6.250	7.125	41697.9	45253.1	44900.0	1.80
R25M05.XY	7.83	2.060	-1.236	3.000	6.375	7.000	25.125	41697.9	45253.1	44900.0	1.80
R25M07.XY	7.83	2.060	-1.119	6.500	9.250	17.125	32.125	41697.9	45253.1	44900.0	1.80
R25M08.XY	7.83	1.970	-1.287	5.750	7.875	16.375	21.250	41697.9	45253.1	44900.0	1.80
R26M01.XY	10.30	1.920	-1.343	2.375	4.000	6.375	8.375	12345.6	39728.2	66000.0	2.05
R26M02.XY	10.30	2.140	-1.898	0.500	0.875	4.000	7.375	12345.6	39728.2	66000.0	2.05
R26M03.XY	10.30	2.140	-1.720	1.750	2.750	5.750	9.125	12345.6	39728.2	66000.0	2.05
R26M04.XY	10.30	2.140	-2.176	1.875	3.625	6.750	10.500	12345.6	39728.2	66000.0	2.05
R26M05.XY	10.30	1.850	-1.580	1.625	3.125	5.625	7.750	12345.6	39728.2	66000.0	2.05
R26M07.XY	10.30	1.800	-1.639	1.125	2.000	4.500	6.625	12345.6	39728.2	66000.0	2.05
R27M01.XY	11.88	2.650	-1.143	6.875	11.000	14.875	20.375	4336.5	33788.5	45100.0	1.78
R27M02.XY	11.88	4.100	-1.156	14.250	15.000	14.750	16.875	4336.5	33788.5	45100.0	1.78
R27M03.XY	11.88	3.300	-1.087	10.750	13.750	14.875	16.250	4336.5	33788.5	45100.0	1.78
R27M04.XY	11.88	3.850	-1.032	9.500	15.125	13.875	16.875	4336.5	33788.5	45100.0	1.78
R27M05.XY	11.88	2.650	-1.041	6.125	11.625	13.875	19.125	4336.5	33788.5	45100.0	1.78
R27M07.XY	11.88	3.150	-0.975	13.250	13.500	9.500	16.500	4336.5	33788.5	45100.0	1.78
R28M02.XY	11.67	3.500	-2.203	5.250	9.750	10.125	13.875	20803.9	35615.2	41000.0	1.75
R28M03.XY	11.67	2.900	-2.228	2.625	6.125	22.875	38.250	20803.9	35615.2	41000.0	1.75
R28M04.XY	11.67	3.350	-2.396	5.375	7.250	10.875	14.625	20803.9	35615.2	41000.0	1.75
R28M05.XY	11.68	3.250	-2.446	2.500	2.625	5.750	28.125	1617.5	30478.8	42000.0	1.82
R28M07.XY	11.68	3.500	-2.534	3.375	4.125	6.500	17.875	1617.5	30478.8	42000.0	1.82
R28M08.XY	11.68	4.100	-2.565	2.625	6.125	10.750	17.500	1617.5	30478.8	42000.0	1.82
R28M09.XY	11.68	3.500	-2.647	10.750	21.125	23.000	38.125	1617.5	30478.8	42000.0	1.82
R28M11.XY	11.68	3.950	-2.688	2.500	8.500	13.500	19.500	1617.5	30478.8	42000.0	1.82
R28M12.XY	11.68	3.250	-2.586	4.375	6.125	26.250	33.875	1617.5	30478.8	42000.0	1.82
R29M02.XY	15.53	3.980	-3.218	6.000	60.750	100.500	111.750	6830.5	107588.3	41000.0	1.17
R29M03.XY	15.53	3.860	-3.113	41.250	95.625	101.000	109.875	6830.5	107588.3	41000.0	1.17
R29M04.XY	15.53	3.710	-3.395	3.875	57.250	98.500	106.875	6830.5	107588.3	41000.0	1.17
R29M05.XY	15.54	3.350	-2.816	5.500	31.000	53.625	59.625	11649.8	110456.8	40000.0	1.17
R29M07.XY	15.54	3.250	-3.015	6.625	10.500	11.875	65.250	11649.8	110456.8	40000.0	1.17
R29M08.XY	15.54	3.140	-2.951	4.625	5.000	49.250	53.250	11649.8	110456.8	40000.0	1.17
R29M09.XY	15.54	2.940	-2.613	3.625	7.625	9.875	57.125	11649.8	110456.8	40000.0	1.17
R29M11.XY	15.54	2.850	-2.945	3.750	5.125	3.500	50.500	11649.8	110456.8	40000.0	1.17
R29M12.XY	15.54	3.570	-3.186	6.750	29.375	49.250	54.250	11649.8	110456.8	40000.0	1.17
R30M02.XY	10.50	1.840	-1.546	2.500	6.125	6.500	12.125	3765.7	29191.4	68500.0	2.66
R30M03.XY	10.50	1.730	-1.411	1.125	2.750	4.500	23.625	3765.7	29191.4	68500.0	2.66
R30M04.XY	10.50	1.890	-1.545	1.750	2.500	4.250	7.500	3765.7	29191.4	68500.0	2.66
R30M05.XY	10.51	1.580	-1.172	2.000	5.000	5.250	6.500	18175.1	30479.4	69300.0	2.66
R30M06.XY	10.51	1.640	-1.167	3.250	4.500	5.250	9.500	18175.1	30479.4	69300.0	2.66
R30M07.XY	10.51	1.750	-1.313	1.375	3.375	4.125	5.625	18175.1	30479.4	69300.0	2.66
R30M08.XY	10.51	1.870	-1.358	2.625	3.375	5.375	11.125	18175.1	30479.4	69300.0	2.66
R30M09.XY	10.51	1.700	-1.334	2.750	4.750	5.250	9.875	18175.1	30479.4	69300.0	2.66
R30M10.XY	10.51	1.780	-1.463	2.125	3.875	4.750	27.000	18175.1	30479.4	69300.0	2.66
R31M02.XY	10.25	1.830	-1.375	0.250	0.750	4.625	15.750	44358.2	32813.6	66000.0	2.74
R31M03.XY	10.25	2.020	-1.226	1.750	4.500	5.750	7.750	44358.2	32813.6	66000.0	2.74
R31M04.XY	10.25	1.740	-1.272	2.500	6.250	7.500	13.250	44358.2	32813.6	66000.0	2.74
R31M05.XY	10.26	1.520	-1.148	1.500	2.625	4.500	16.000	32738.2	30366.6	66000.0	2.74
R31M06.XY	10.26	1.530	-1.151	2.375	3.500	7.750	25.375	32738.2	30366.6	66000.0	2.74
R31M07.XY	10.26	1.650	-1.192	1.875	3.125	8.250	22.875	32738.2	30366.6	66000.0	2.74
R31M08.XY	10.26	1.670	-1.259	1.250	1.875	6.750	10.625	32738.2	30366.6	66000.0	2.74
R32M02.XY	12.17	1.910	-1.535	2.875	4.875	4.875	15.625	9039.8	27905.4	70300.0	2.84
R32M03.XY	12.17	2.250	-1.605	2.125	5.125	10.500	12.875	9039.8	27905.4	70300.0	2.84
R32M04.XY	12.17	2.230	-1.589	0.750	0.875	9.625	1.250	9039.8	27905.4	70300.0	2.84
R32M05.XY	12.18	1.750	-1.506	3.000	3.750	5.125	9.250	3855.9	27717.3	70300.0	2.84
R32M06.XY	12.18	1.670	-1.813	4.625	5.375	4.125	9.500	3855.9	27717.3	70300.0	2.84
R32M07.XY	12.18	1.810	-1.429	3.250	5.500	11.875	17.125	3855.9	27717.3	70300.0	2.84
R32M08.XY	12.18	1.910	-1.273	4.500	7.500	9.625	20.250	3855.9	27717.3	70300.0	2.84
R32M09.XY	12.18	1.660	-1.358	0.750	2.625	9.250	27.250	3855.9	27717.3	70300.0	2.84
R32M10.XY	12.18	1.630	-1.534	1.250	2.500	6.625	25.500	3855.9	27717.3	70300.0	2.84
R33M02.XY	10.88	2.900	-2.553	3.375	5.000	3.750	13.625	30342.2	43183.1	51000.0	1.80

R33M03.XY	10.88	3.150	-2.501	3.125	4.500	4.500	6.625	30342.2	43183.1	51000.0	1.80
R33M04.XY	10.88	2.850	-2.512	3.125	4.625	5.000	8.500	30342.2	43183.1	51000.0	1.80
R33M05.XY	10.89	1.565	-1.214	1.125	2.250	3.750	11.375	1933.7	37020.1	51000.0	1.80
R33M06.XY	10.89	2.050	-1.509	1.750	3.000	3.125	4.875	1933.7	37020.1	51000.0	1.80
R33M07.XY	10.89	2.100	-1.558	8.250	8.625	9.500	20.750	1933.7	37020.1	51000.0	1.80
R33M08.XY	10.89	2.150	-1.499	0.875	2.375	2.625	13.875	1933.7	37020.1	51000.0	1.80
R33M09.XY	10.89	1.774	-1.217	2.750	6.000	8.375	10.750	1933.7	37020.1	51000.0	1.80
R33M10.XY	10.89	2.100	-1.468	3.250	4.625	4.750	8.000	1933.7	37020.1	51000.0	1.80
R34M02.X	11.62	3.100	-2.865	3.375	6.375	6.625	8.125	45073.2	59818.1	44000.0	1.56
R34M03.X	11.62	3.250	-2.812	7.250	19.750	26.250	32.000	45073.2	59818.1	44000.0	1.56
R34M04.X	11.62	2.650	-2.583	5.375	10.750	26.250	45.125	45073.2	59818.1	44000.0	1.56
R34M05.X	11.63	1.550	-1.135	8.250	11.875	14.750	19.125	12424.4	42893.0	44000.0	1.56
R34M06.X	11.63	1.970	-0.967	16.500	23.750	22.875	28.375	12424.4	42893.0	44000.0	1.56
R34M07.X	11.63	2.100	-1.105	15.625	24.625	24.375	29.750	12424.4	42893.0	44000.0	1.56
R34M08.X	11.63	1.950	-1.112	14.375	19.375	18.750	23.000	12424.4	42893.0	44000.0	1.56
R34M09.X	11.63	2.000	-1.250	14.125	21.250	20.750	26.750	12424.4	42893.0	44000.0	1.56
R34M11.X	11.63	2.000	-1.029	15.500	25.500	25.000	31.250	12424.4	42893.0	44000.0	1.56
R34M02.X	11.87	1.650	-1.082	30.000	51.500	76.500	88.750	49614.0	83739.4	36400.0	1.36
R34M03.X	11.87	1.600	-1.236	25.625	51.875	73.125	81.375	49614.0	83739.4	36400.0	1.36
R34M04.X	11.87	1.550	-0.955	31.500	52.500	83.750	88.750	49614.0	83739.4	36400.0	1.36
R34M05.X	11.88	1.400	-0.792	15.625	19.000	34.000	36.000	46177.4	79606.8	36400.0	1.36
R34M06.X	11.88	1.200	-0.814	12.750	19.625	25.125	33.625	46177.4	79606.8	36400.0	1.36
R34M07.X	11.88	1.300	-0.958	11.000	18.500	24.625	45.750	46177.4	79606.8	36400.0	1.36
R34M08.X	11.88	1.350	-0.915	14.625	25.750	28.750	43.750	46177.4	79606.8	36400.0	1.36
R34M09.X	11.88	1.450	-0.914	15.875	23.000	36.375	49.750	46177.4	79606.8	36400.0	1.36
R34M11.X	11.88	1.150	-0.811	16.250	24.250	26.250	53.250	46177.4	79606.8	36400.0	1.36
R35M05.XY	11.63	2.900	-2.457	6.375	8.750	12.625	30.000	3011.4	48586.6	52000.0	1.55
R35M06.XY	11.63	2.800	-2.423	8.750	18.125	34.375	56.625	3011.4	48586.6	52000.0	1.55
R35M07.XY	11.63	2.900	-2.407	7.625	25.375	42.750	49.125	3011.4	48586.6	52000.0	1.55
R35M08.XY	11.63	2.620	-1.893	7.250	13.125	22.125	26.625	3011.4	48586.6	52000.0	1.55
R35M09.XY	11.63	3.200	-2.530	6.500	11.250	11.750	16.250	3011.4	48586.6	52000.0	1.55
R35M10.XY	11.63	2.750	-2.439	9.125	19.625	32.500	55.000	3011.4	48586.6	52000.0	1.55
R35M11.XY	11.63	2.750	-2.431	11.125	26.125	40.500	50.625	3011.4	48586.6	52000.0	1.55
R35M12.XY	11.63	2.800	-2.348	6.750	12.500	21.375	27.000	3011.4	48586.6	52000.0	1.55
R36M05.XY	16.77	1.900	-1.507	7.500	10.750	21.000	34.000	29468.5	32027.1	53000.0	2.26
R36M06.XY	16.77	1.900	-1.661	4.000	4.625	4.750	47.875	29468.5	32027.1	53000.0	2.26
R36M07.XY	16.77	1.600	-1.469	5.500	8.625	35.375	45.250	29468.5	32027.1	53000.0	2.26
R36M08.XY	16.77	1.950	-1.842	6.250	8.625	31.750	47.250	29468.5	32027.1	53000.0	2.26
R36M09.XY	16.77	1.500	-1.310	8.125	10.875	24.125	29.875	29468.5	32027.1	53000.0	2.26
R37M02.X	12.92	2.450	-1.983	9.375	18.750	30.000	35.500	70589.5	51856.5	64000.0	2.20
R37M03.X	12.92	2.850	-2.176	4.000	7.875	7.250	9.625	70589.5	51856.5	64000.0	2.20
R37M04.X	12.92	2.550	-1.945	7.625	20.625	24.750	30.875	70589.5	51856.5	64000.0	2.20
R37M05.X	12.93	1.120	-0.675	4.375	6.625	7.375	9.250	14429.3	35416.2	64000.0	2.20
R37M07.X	12.93	0.960	-0.667	8.625	9.500	10.125	48.750	14429.3	35416.2	64000.0	2.20
R37M08.X	12.93	0.880	-0.634	8.500	10.375	9.250	24.875	14429.3	35416.2	64000.0	2.20
R37M11.X	12.93	1.190	-0.631	11.250	13.750	31.125	41.625	14429.3	35416.2	64000.0	2.20
R37M12.X	12.93	0.970	-0.603	12.000	19.750	27.250	34.375	14429.3	35416.2	64000.0	2.20
R38M14.XY	10.32	2.310	-2.314	2.750	21.375	31.375	38.875	3744.8	64628.0	44300.0	1.30
R38M15.XY	10.32	2.120	-2.243	0.500	21.000	29.500	37.625	3744.8	64628.0	44300.0	1.30
R38M16.XY	10.32	2.250	-2.300	0.750	18.500	28.750	38.750	3744.8	64628.0	44300.0	1.30
R39M02.XY	12.67	2.570	-1.584	0.125	0.250	0.375	0.500	25729.4	86275.2	39800.0	1.24
R39M03.XY	12.67	1.660	-1.828	3.125	9.500	12.875	22.375	25729.4	86275.2	39800.0	1.24
R39M04.XY	12.67	3.070	-1.793	0.375	0.500	0.625	1.375	25729.4	86275.2	39800.0	1.24
R39M05.XY	12.67	2.530	-1.415	0.750	1.250	1.375	1.875	25729.4	86275.2	39800.0	1.24
R39M06.XY	12.67	1.790	-2.066	1.250	8.000	12.625	20.250	25729.4	86275.2	39800.0	1.24
R39M07.XY	12.67	1.840	-1.835	1.500	9.000	11.500	21.750	25729.4	86275.2	39800.0	1.24
R39M08.XY	12.67	2.020	-1.853	1.000	7.000	11.125	20.125	25729.4	86275.2	39800.0	1.24
R40M01.XY	0.00	2.100	-1.818	1.750	7.750	9.875	35.375	6000.0	0.0	52900.0	1.81
R40M02.XY	0.00	2.130	-1.931	3.000	5.250	8.375	44.500	6000.0	0.0	52900.0	1.81

R40M03.XY	0.00	2.260	-1.989	2.875	5.000	10.750	20.375	6000.0	0.0	52900.0	1.81
R40M05.XY	0.00	2.220	-1.883	1.125	2.500	6.125	15.625	6000.0	0.0	52900.0	1.81
R40M06.XY	0.00	2.350	-2.148	2.750	5.000	6.375	24.875	6000.0	0.0	52900.0	1.81
R40M07.XY	0.00	2.170	-1.300	3.125	4.375	6.500	9.125	6000.0	0.0	52900.0	1.81
R40M08.XY	0.00	2.820	-2.268	2.125	2.750	2.750	4.375	6000.0	0.0	52900.0	1.81
R40M09.XY	0.00	3.120	-2.040	1.000	1.250	1.875	2.875	6000.0	0.0	52900.0	1.81
R40M10.XY	0.00	3.000	-2.160	2.125	5.375	5.500	8.500	6000.0	0.0	52900.0	1.81
R40M11.XY	0.00	2.980	-2.199	2.875	5.875	5.625	9.250	6000.0	0.0	52900.0	1.81
R40M12.XY	0.00	2.800	-2.070	1.750	4.750	6.125	10.000	6000.0	0.0	52900.0	1.81
R40M13.XY	0.00	2.750	-1.915	0.750	1.875	5.500	9.125	6000.0	0.0	52900.0	1.81
R40M14.XY	0.00	2.650	-2.407	2.875	5.000	8.000	15.500	6000.0	0.0	52900.0	1.81
R40M15.XY	0.00	2.350	-2.113	0.625	0.875	0.875	24.375	6000.0	0.0	52900.0	1.81
R40M16.XY	0.00	2.900	-2.070	3.125	6.625	7.625	9.750	6000.0	0.0	52900.0	1.81
R41M01.XY	0.01	1.700	-1.446	0.875	1.125	1.250	6.500	70.0	0.0	72000.0	2.83
R41M02.XY	0.01	1.750	-1.650	0.875	1.250	1.875	22.625	70.0	0.0	72000.0	2.83
R41M03.XY	0.01	1.890	-1.626	0.500	0.625	4.250	28.625	70.0	0.0	72000.0	2.83
R41M04.XY	0.01	1.770	-1.532	0.375	1.375	4.750	18.500	70.0	0.0	72000.0	2.83
R41M05.XY	0.01	1.620	-1.482	2.625	4.500	8.000	25.000	70.0	0.0	72000.0	2.83
R41M06.XY	0.01	1.620	-1.627	1.125	1.875	3.375	18.875	70.0	0.0	72000.0	2.83
R41M07.XY	0.01	1.870	-1.562	1.500	5.000	6.375	27.875	70.0	0.0	72000.0	2.83
R41M08.XY	0.01	1.770	-1.448	0.500	0.750	7.250	12.500	70.0	0.0	72000.0	2.83
R41M09.XY	0.01	1.650	-1.505	3.125	4.500	8.125	19.125	70.0	0.0	72000.0	2.83
R41M10.XY	0.01	1.670	-1.548	0.625	1.125	5.125	7.500	70.0	0.0	72000.0	2.83
R41M11.XY	0.01	1.660	-1.566	0.750	6.000	7.375	34.875	70.0	0.0	72000.0	2.83
R41M12.XY	0.01	1.700	-1.450	0.875	1.125	6.125	31.000	70.0	0.0	72000.0	2.83
R41M13.XY	0.01	2.050	-1.579	0.250	0.625	4.375	6.750	70.0	0.0	72000.0	2.83
R41M14.XY	0.01	2.100	-1.474	0.625	1.125	3.750	6.875	70.0	0.0	72000.0	2.83
R41M15.XY	0.01	1.900	-1.405	2.250	3.250	5.750	8.500	70.0	0.0	72000.0	2.83
R41M16.XY	0.01	1.900	-1.405	2.250	3.250	5.750	8.500	70.0	0.0	72000.0	2.83



APPENDIX B

BOOMFILE and XB-70 Plots

BOOMFILE MEASURED DATA
 VS
 MDBOOM CALCULATED DATA

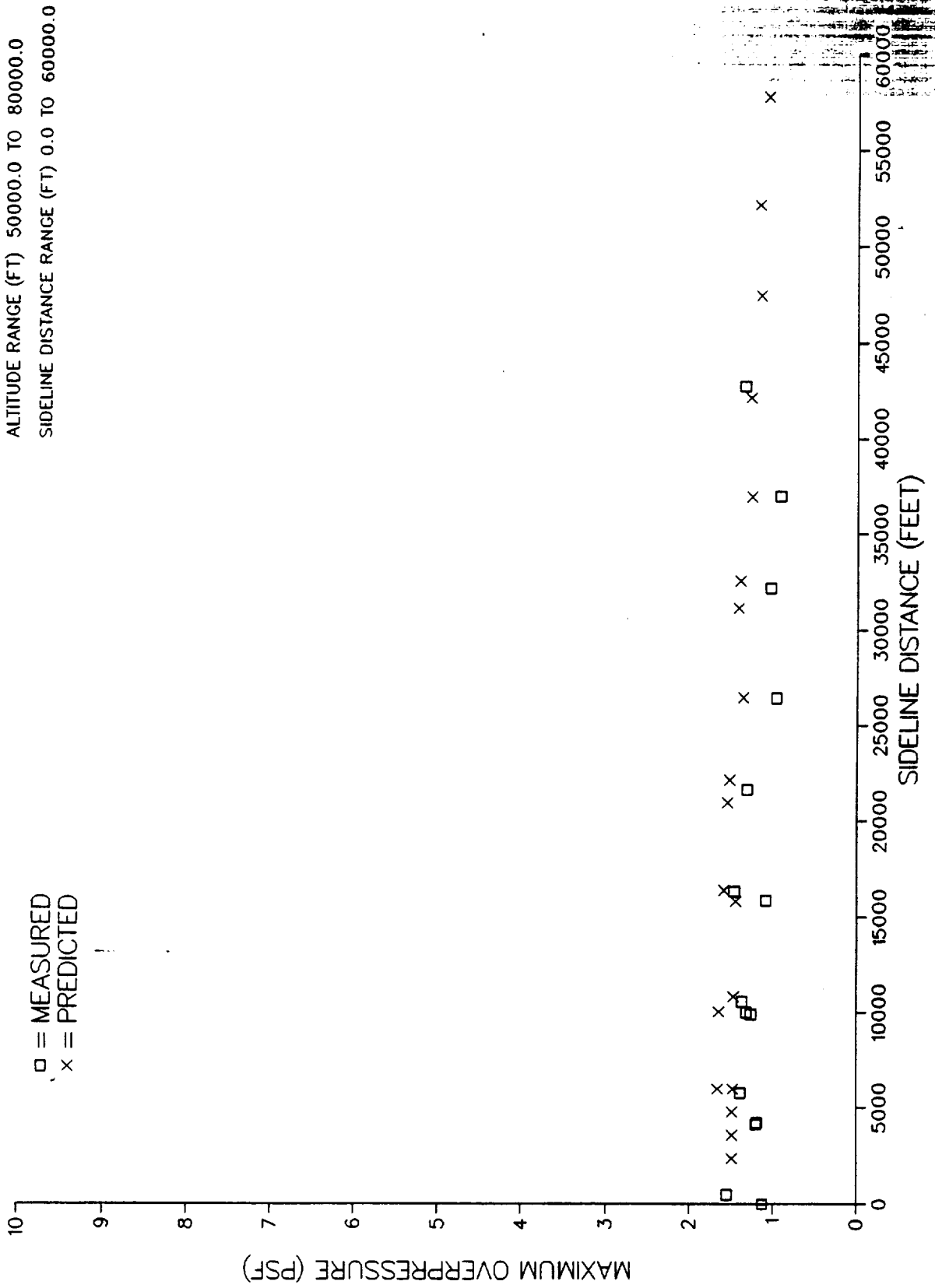
AIRCRAFT TYPE ALL

MACH NUMBER RANGE 1.50 TO 3.50

ALTITUDE RANGE (FT) 50000.0 TO 80000.0

SIDELINE DISTANCE RANGE (FT) 0.0 TO 60000.0

□ = MEASURED
 x = PREDICTED



BOOMFILE MEASURED DATA
vs
MDBOOM CALCULATED DATA

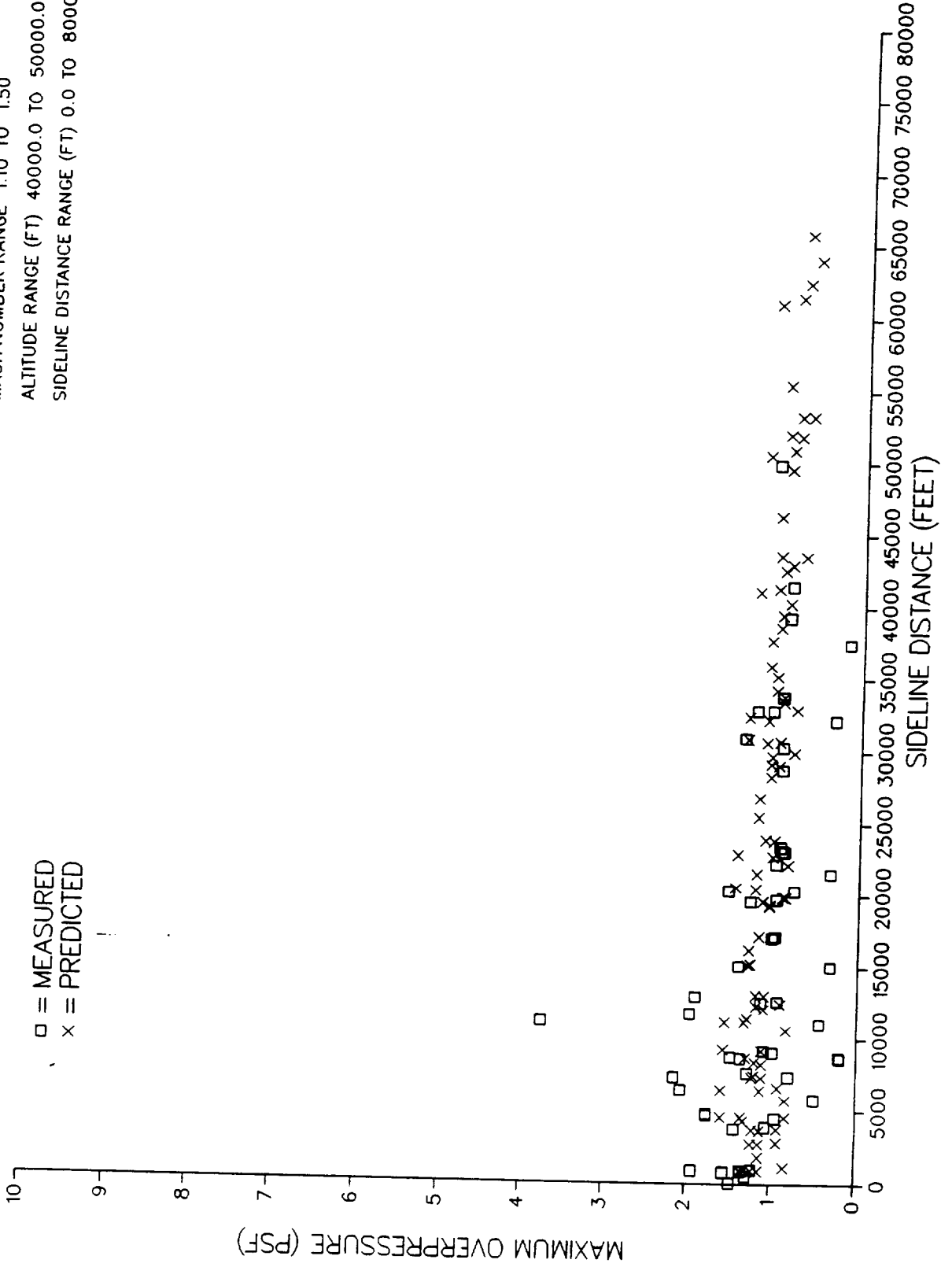
AIRCRAFT TYPE. ALL

MACH NUMBER RANGE 1.10 TO 1.50

ALTITUDE RANGE (FT) 40000.0 TO 50000.0

SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0

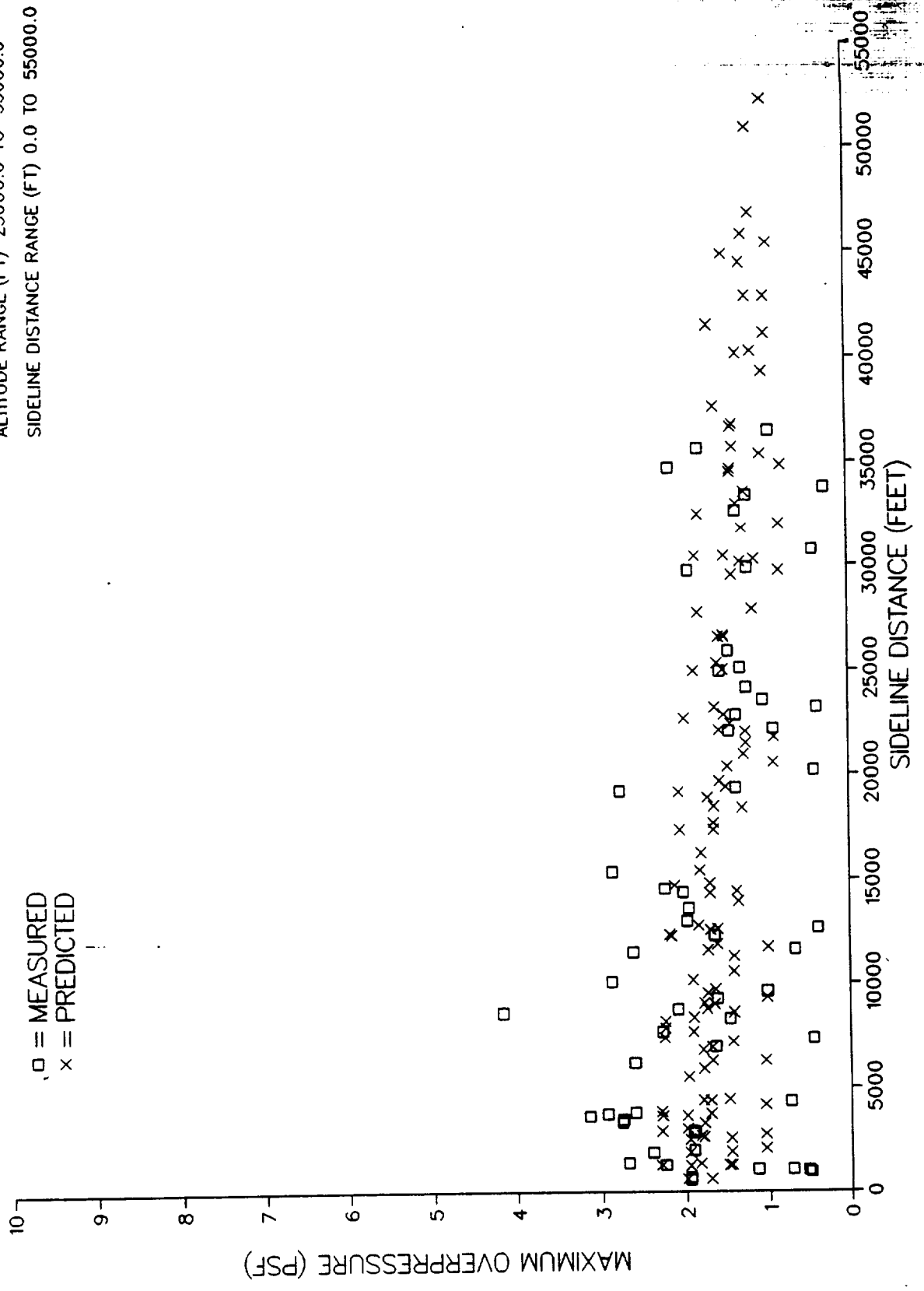
□ = MEASURED
x = PREDICTED



BOOMFILE MEASURED DATA
 VS
 MDBOOM CALCULATED DATA

AIRCRAFT TYPE ALL
 MACH NUMBER RANGE 1.10 TO 1.40
 ALTITUDE RANGE (FT) 25000.0 TO 35000.0
 SIDELINE DISTANCE RANGE (FT) 0.0 TO 55000.0

□ = MEASURED
 x = PREDICTED



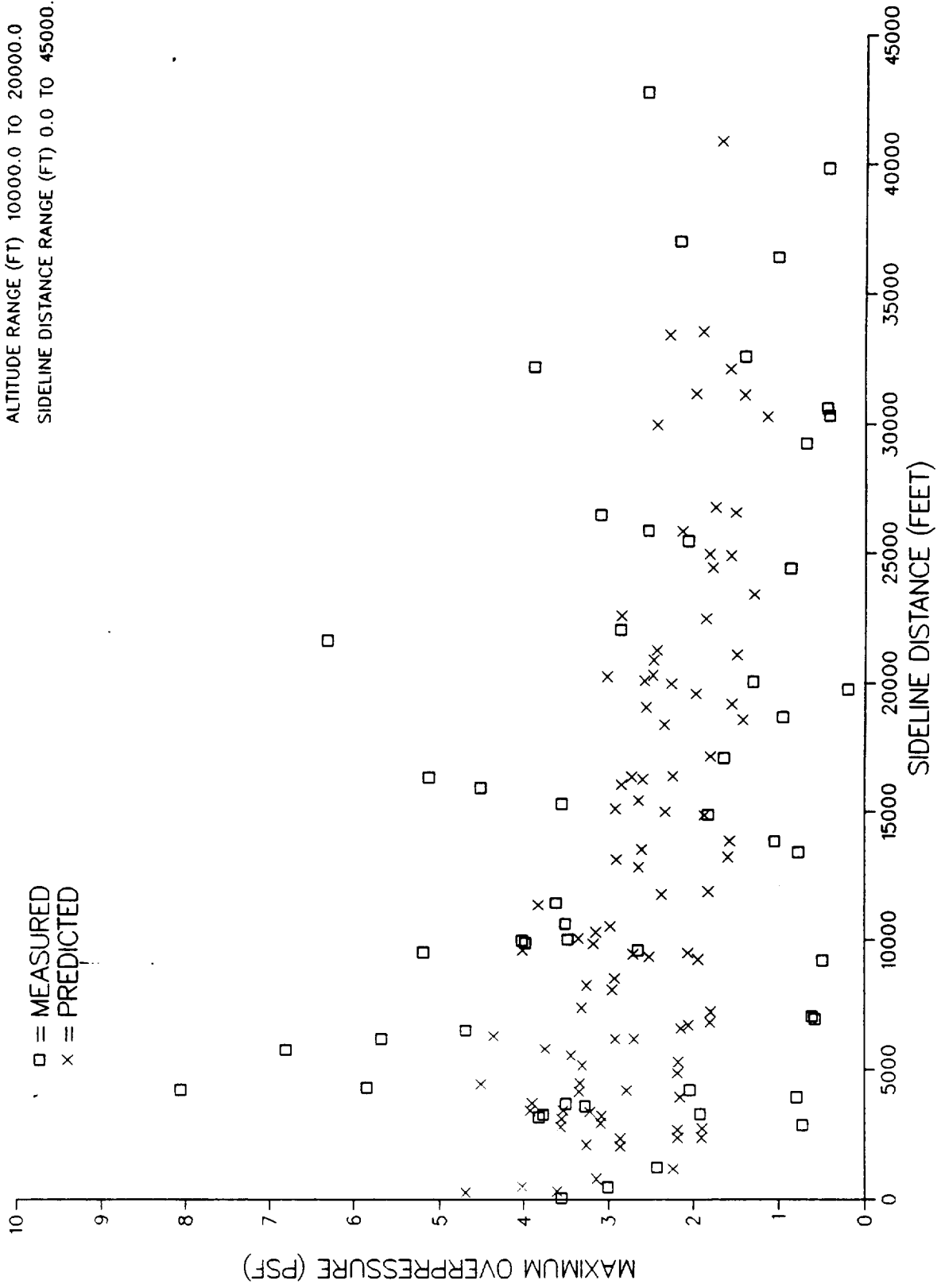
BOOMFILE MEASURED DATA
VS
MDBOOM CALCULATED DATA

AIRCRAFT TYPE ALL

MACH NUMBER RANGE 1.05 TO 1.30

ALTITUDE RANGE (FT) 10000.0 TO 20000.0

SIDELINE DISTANCE RANGE (FT) 0.0 TO 45000.0



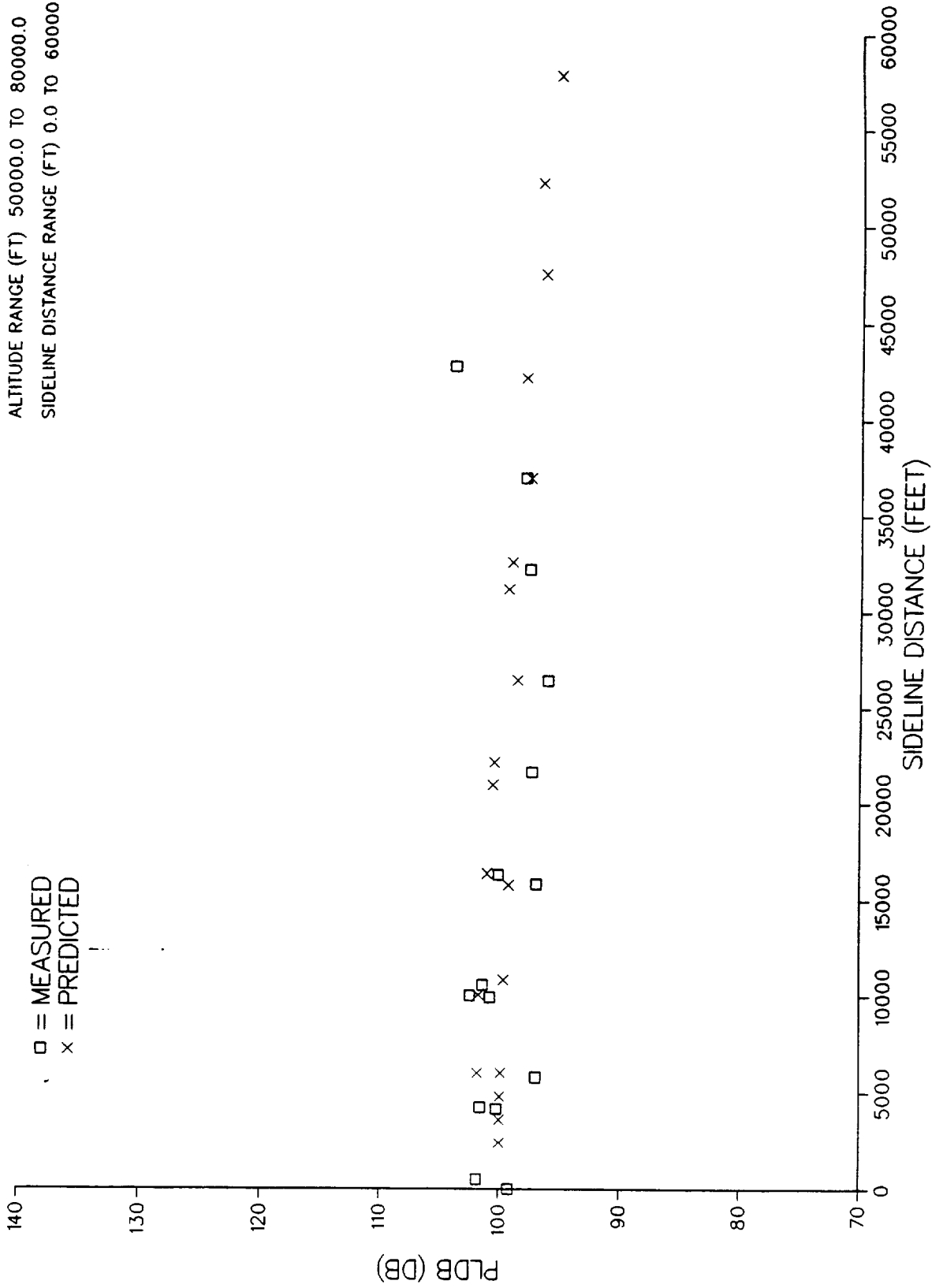
BOOMFILE MEASURED DATA
 VS
 MDBOOM CALCULATED DATA

AIRCRAFT TYPE ALL

MACH NUMBER RANGE 1.50 TO 3.50

ALTITUDE RANGE (FT) 50000.0 TO 80000.0

SIDELINE DISTANCE RANGE (FT) 0.0 TO 60000.0



BOOMFILE MEASURED DATA
VS
MDBOOM CALCULATED DATA

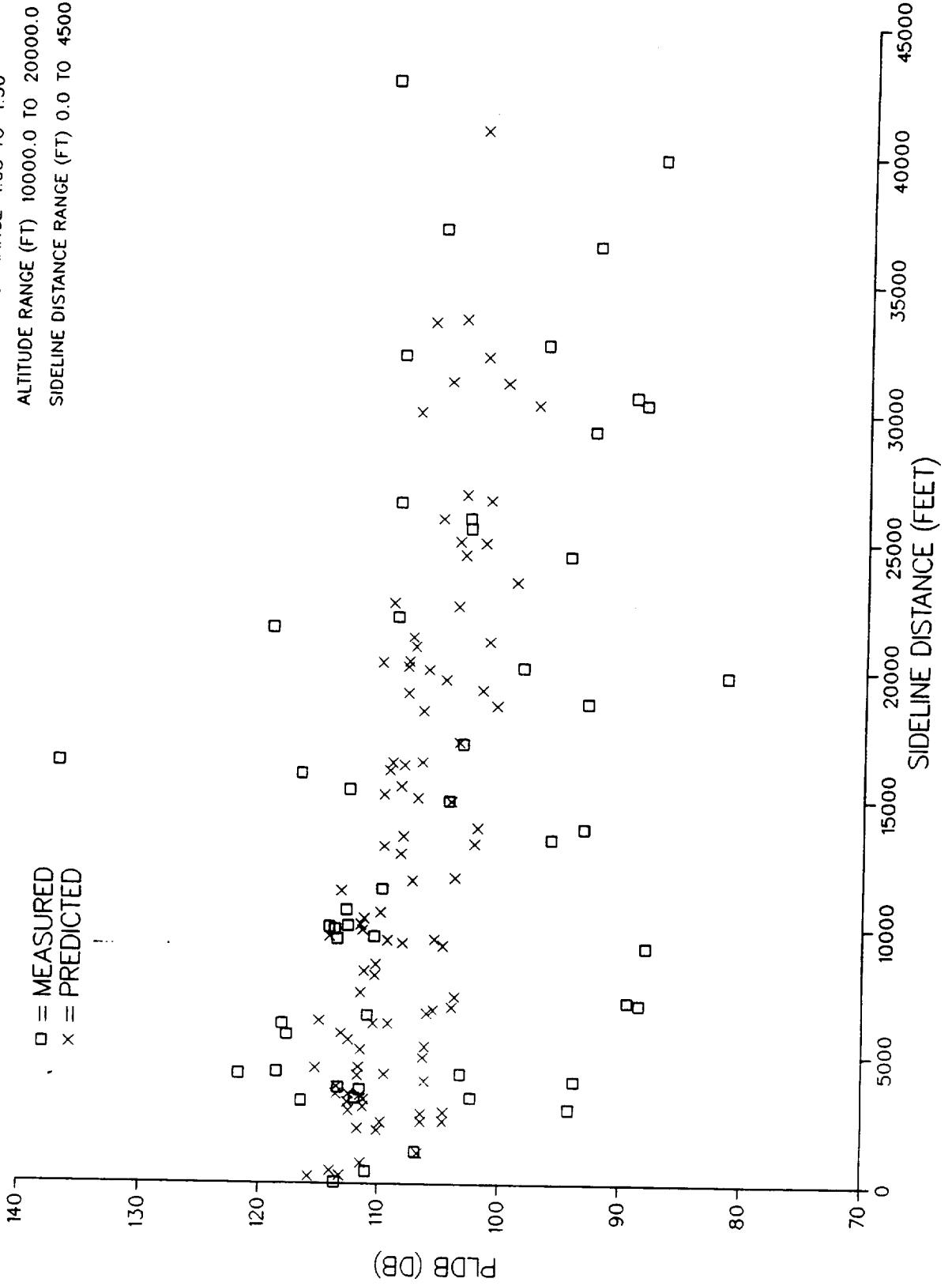
AIRCRAFT TYPE ALL

MACH NUMBER RANGE 1.05 TO 1.30

ALTITUDE RANGE (FT) 10000.0 TO 20000.0

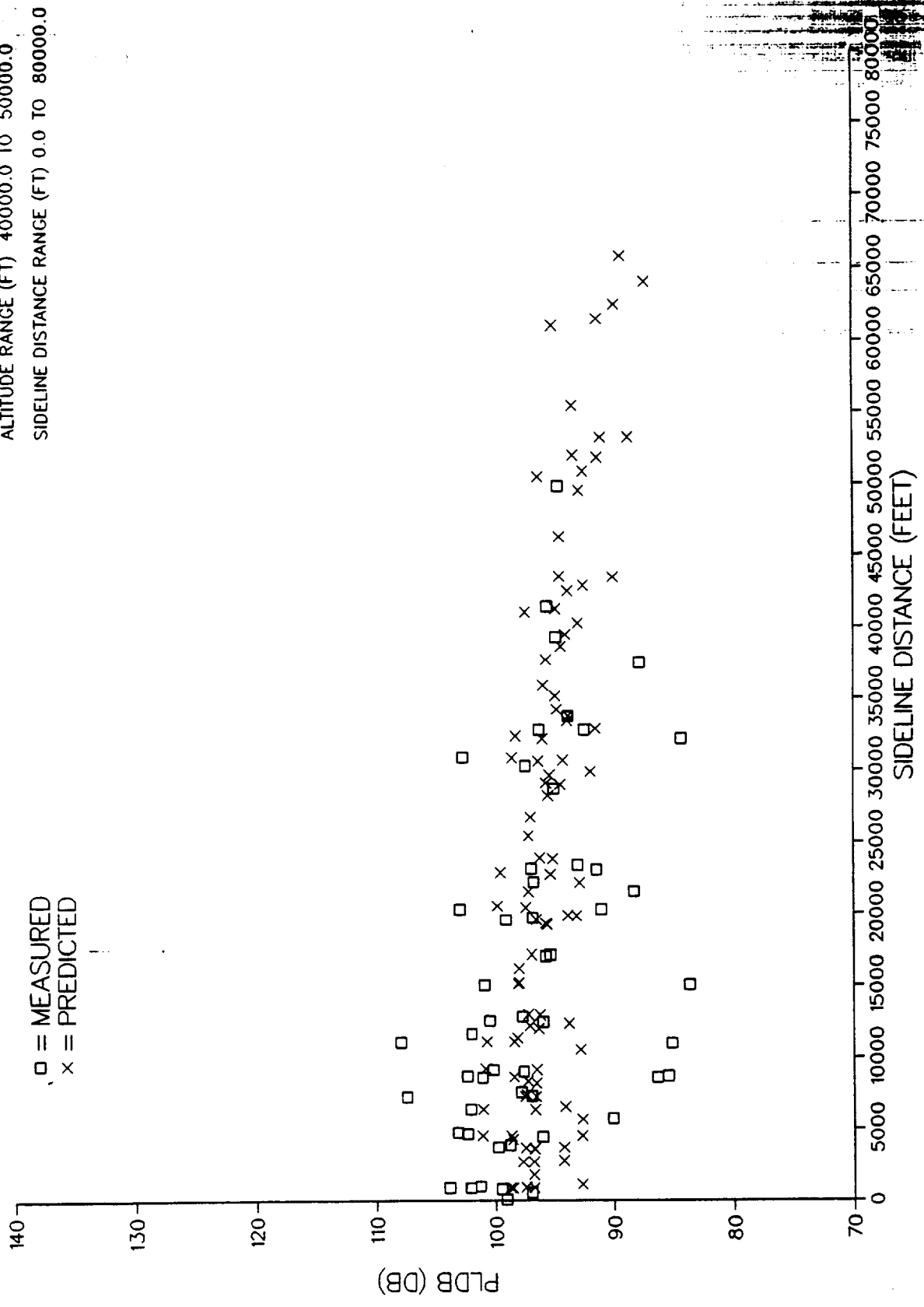
SIDELINE DISTANCE RANGE (FT) 0.0 TO 45000.0

□ = MEASURED
x = PREDICTED



BOOMFILE MEASURED DATA
VS
MDBOOM CALCULATED DATA

AIRCRAFT TYPE ALL
MACH NUMBER RANGE 1.10 TO 1.50
ALTITUDE RANGE (FT) 40000.0 TO 50000.0
SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0



BOOMFILE MEASURED DATA
VS
MDBOOM CALCULATED DATA

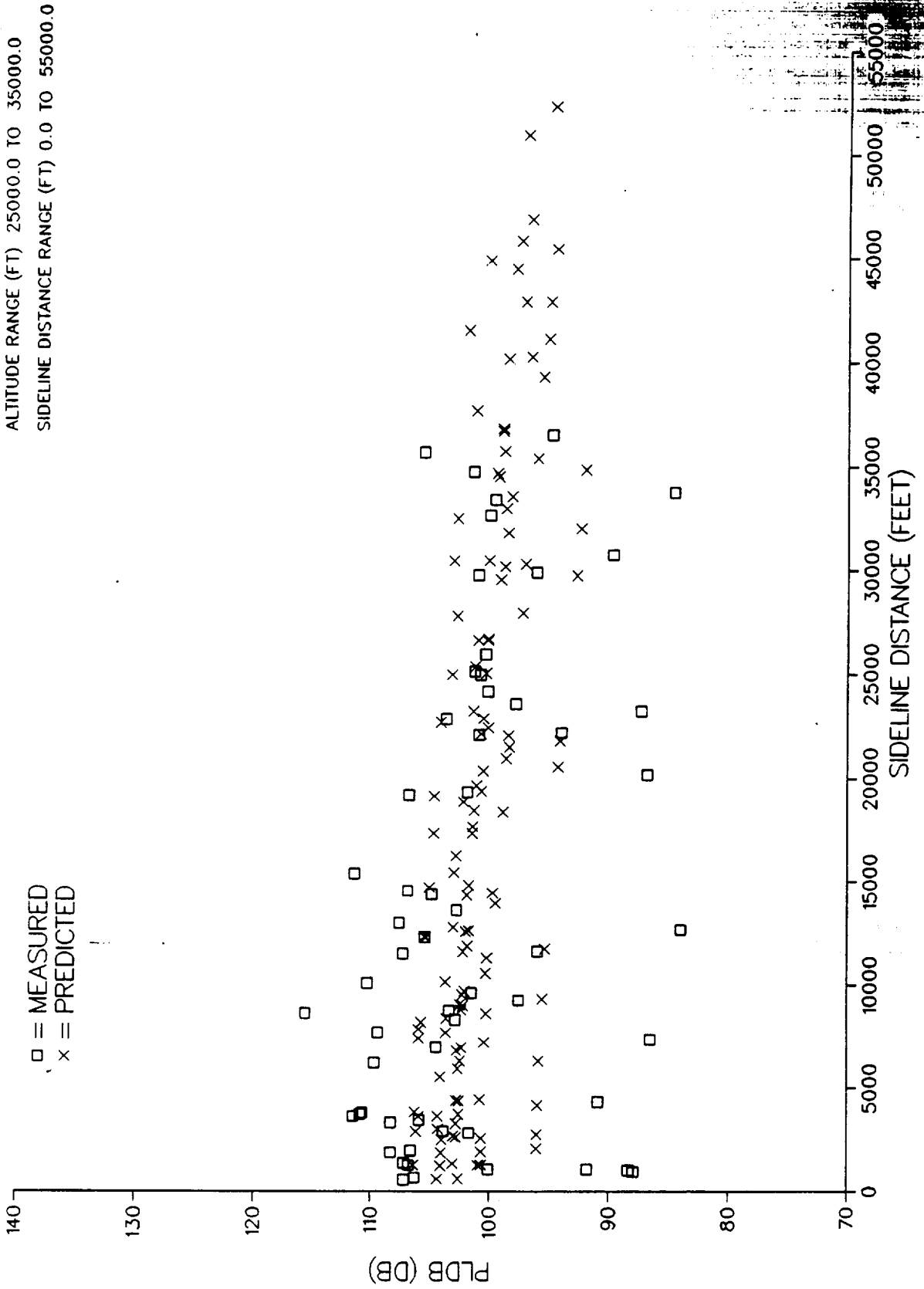
AIRCRAFT TYPE ALL

MACH NUMBER RANGE 1.10 TO 1.40

ALTITUDE RANGE (FT) 25000.0 TO 35000.0

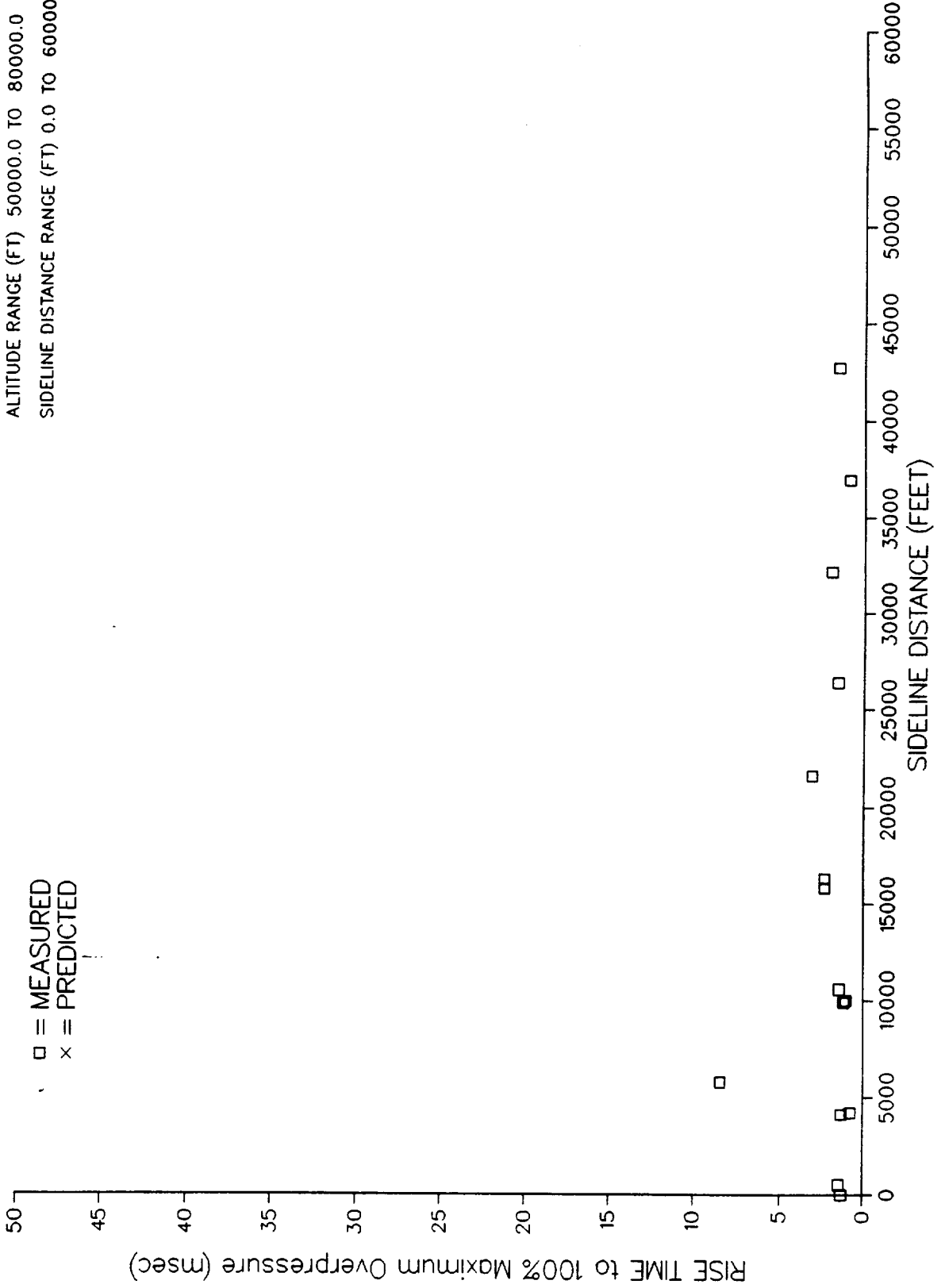
SIDELINE DISTANCE RANGE (FT) 0.0 TO 55000.0

□ = MEASURED
x = PREDICTED



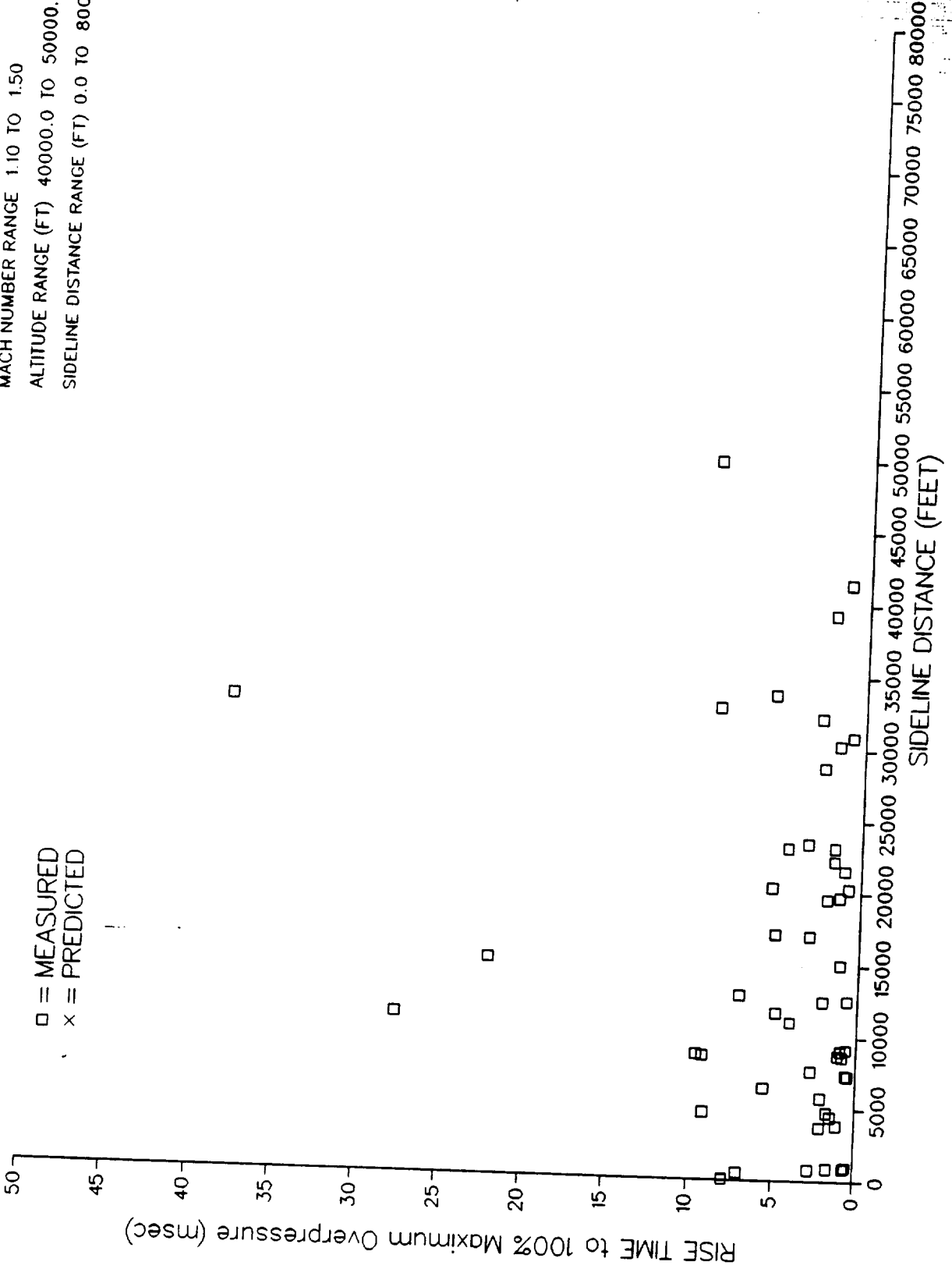
BOOMFILE MEASURED DATA
VS
MDBOOM CALCULATED DATA

AIRCRAFT TYPE ALL
MACH NUMBER RANGE 1.50 TO 3.50
ALTITUDE RANGE (FT) 50000.0 TO 80000.0
SIDELINE DISTANCE RANGE (FT) 0.0 TO 60000.0



BOOMFILE MEASURED DATA
 VS
 MDBOOM CALCULATED DATA

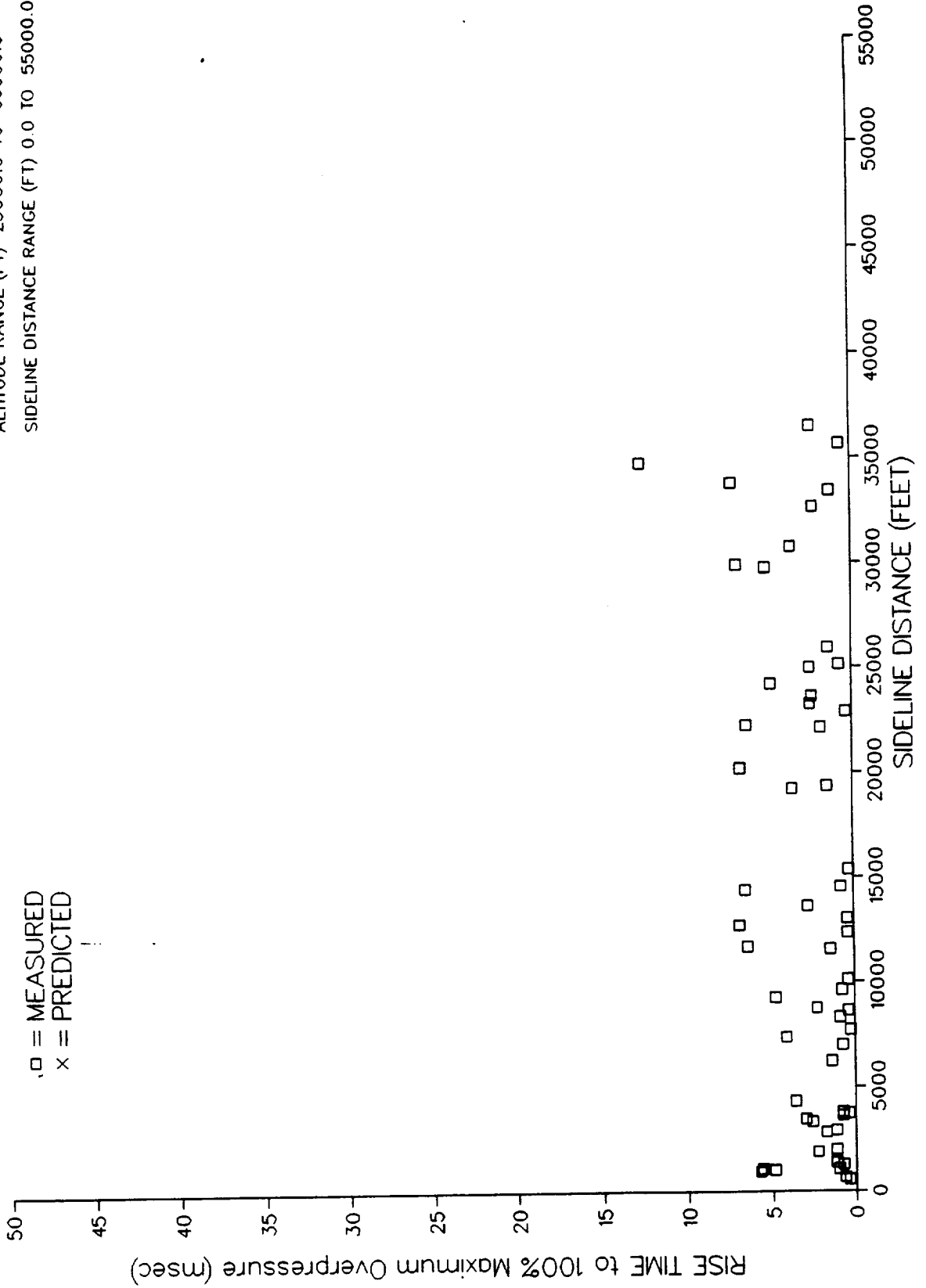
AIRCRAFT TYPE ALL
 MACH NUMBER RANGE 1.10 TO 1.50
 ALTITUDE RANGE (FT) 40000.0 TO 50000.0
 SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0



B11

BOOMFILE MEASURED DATA
vs
MDBOOM CALCULATED DATA

AIRCRAFT TYPE ALL
MACH NUMBER RANGE 1.10 TO 1.40
ALTITUDE RANGE (FT) 25000.0 TO 35000.0
SIDELINE DISTANCE RANGE (FT) 0.0 TO 55000.0



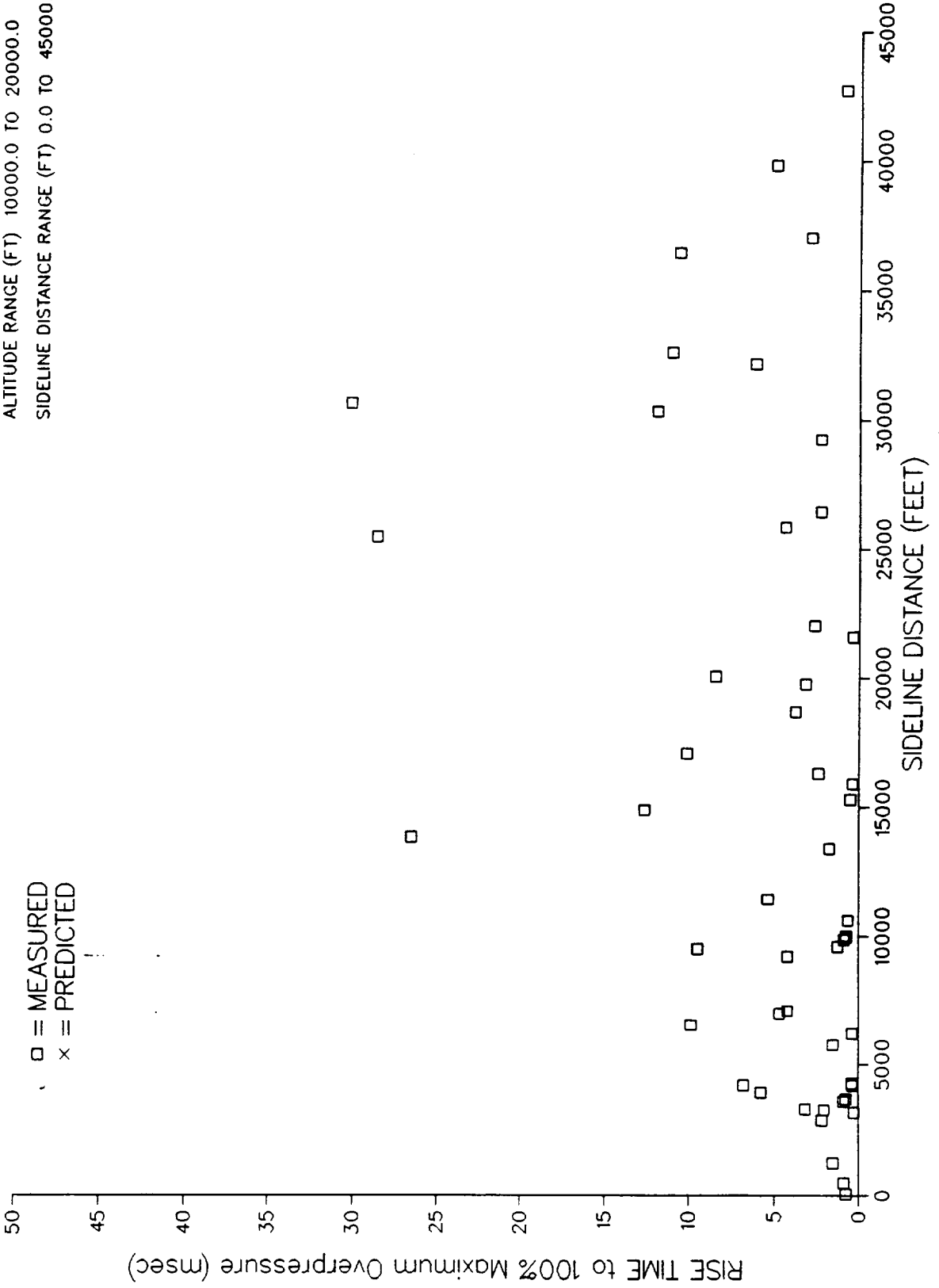
BOOMFILE MEASURED DATA
 VS
 MDBOOM CALCULATED DATA

AIRCRAFT TYPE ALL

MACH NUMBER RANGE 1.05 TO 1.30

ALTITUDE RANGE (FT) 10000.0 TO 20000.0

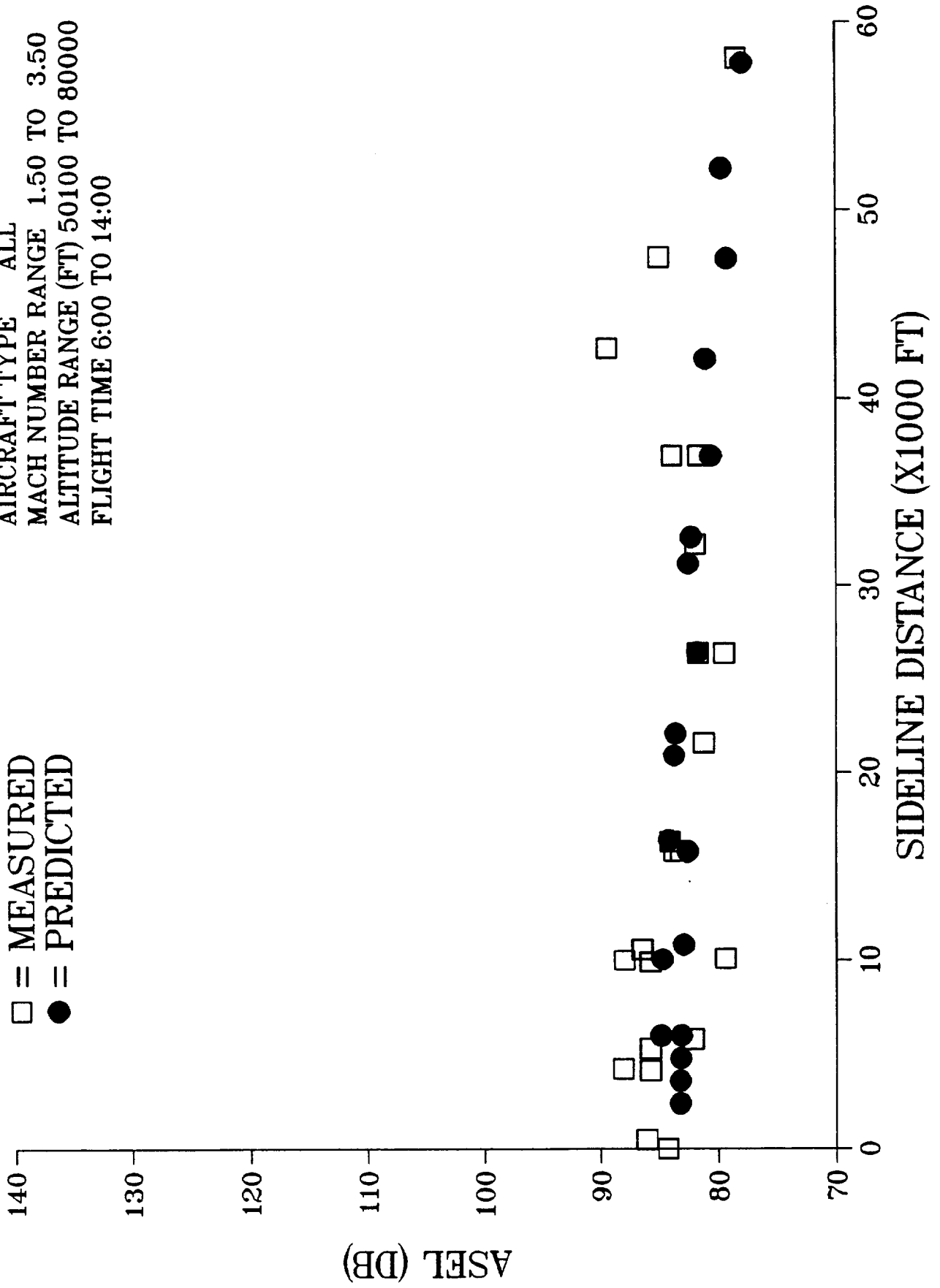
SIDELINE DISTANCE RANGE (FT) 0.0 TO 45000.0



BOOMFILE DATA

AIRCRAFT TYPE ALL
MACH NUMBER RANGE 1.50 TO 3.50
ALTITUDE RANGE (FT) 50100 TO 80000
FLIGHT TIME 6:00 TO 14:00

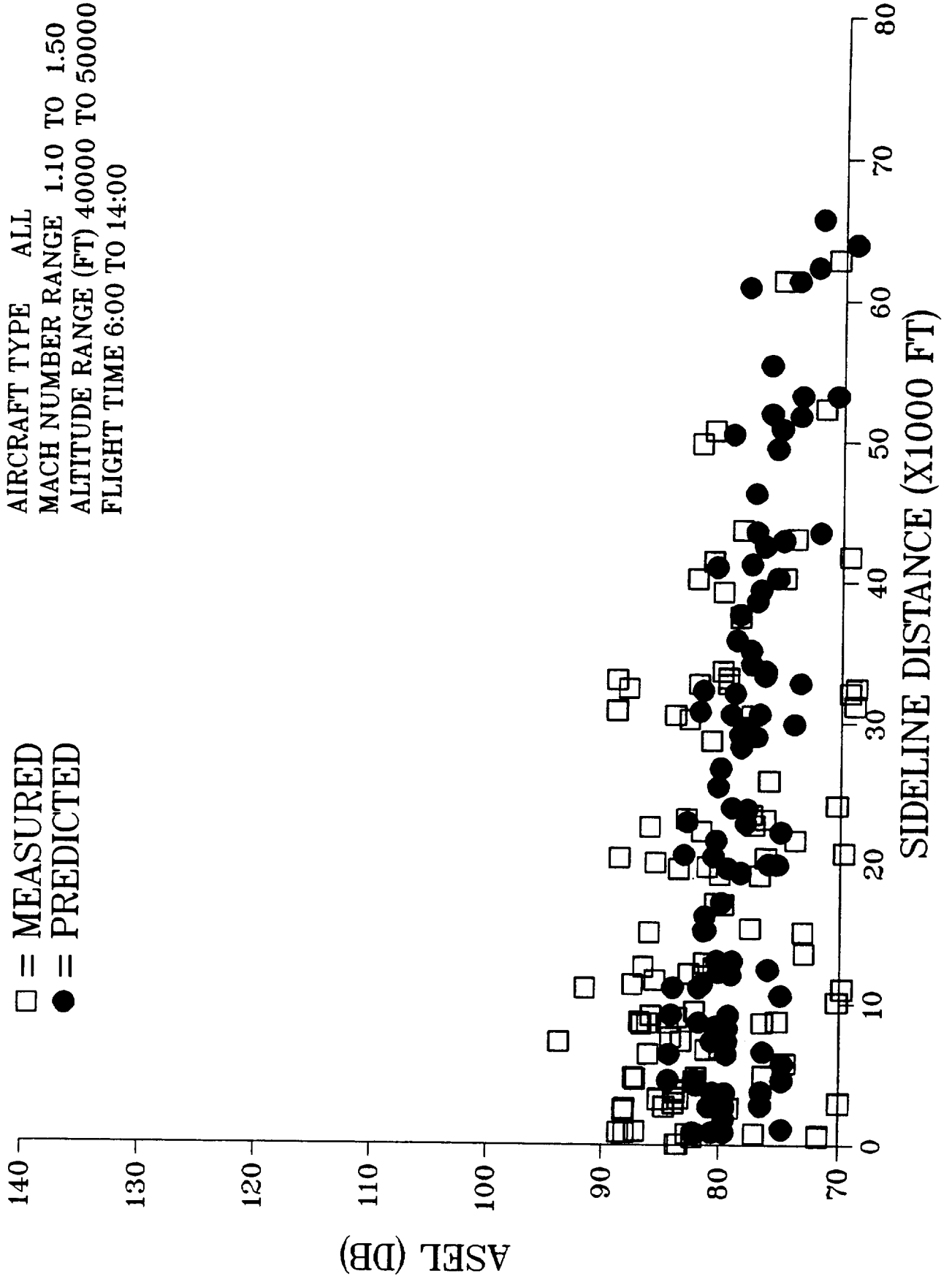
□ = MEASURED
● = PREDICTED



BOOMFILE DATA

- = MEASURED
- = PREDICTED

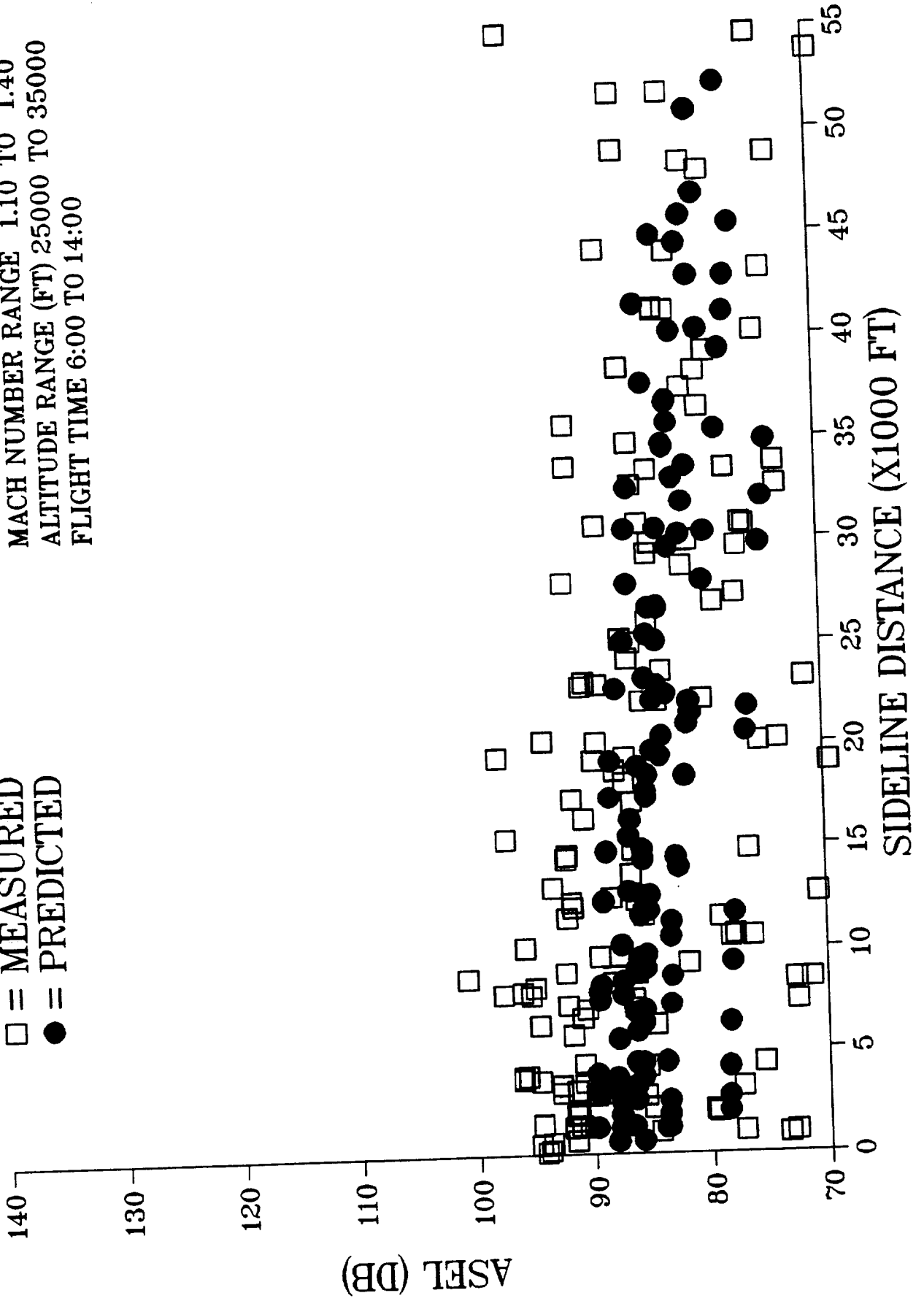
AIRCRAFT TYPE ALL
MACH NUMBER RANGE 1.10 TO 1.50
ALTITUDE RANGE (FT) 40000 TO 50000
FLIGHT TIME 6:00 TO 14:00



BOOMFILE DATA

AIRCRAFT TYPE ALL
MACH NUMBER RANGE 1.10 TO 1.40
ALTITUDE RANGE (FT) 25000 TO 35000
FLIGHT TIME 6:00 TO 14:00

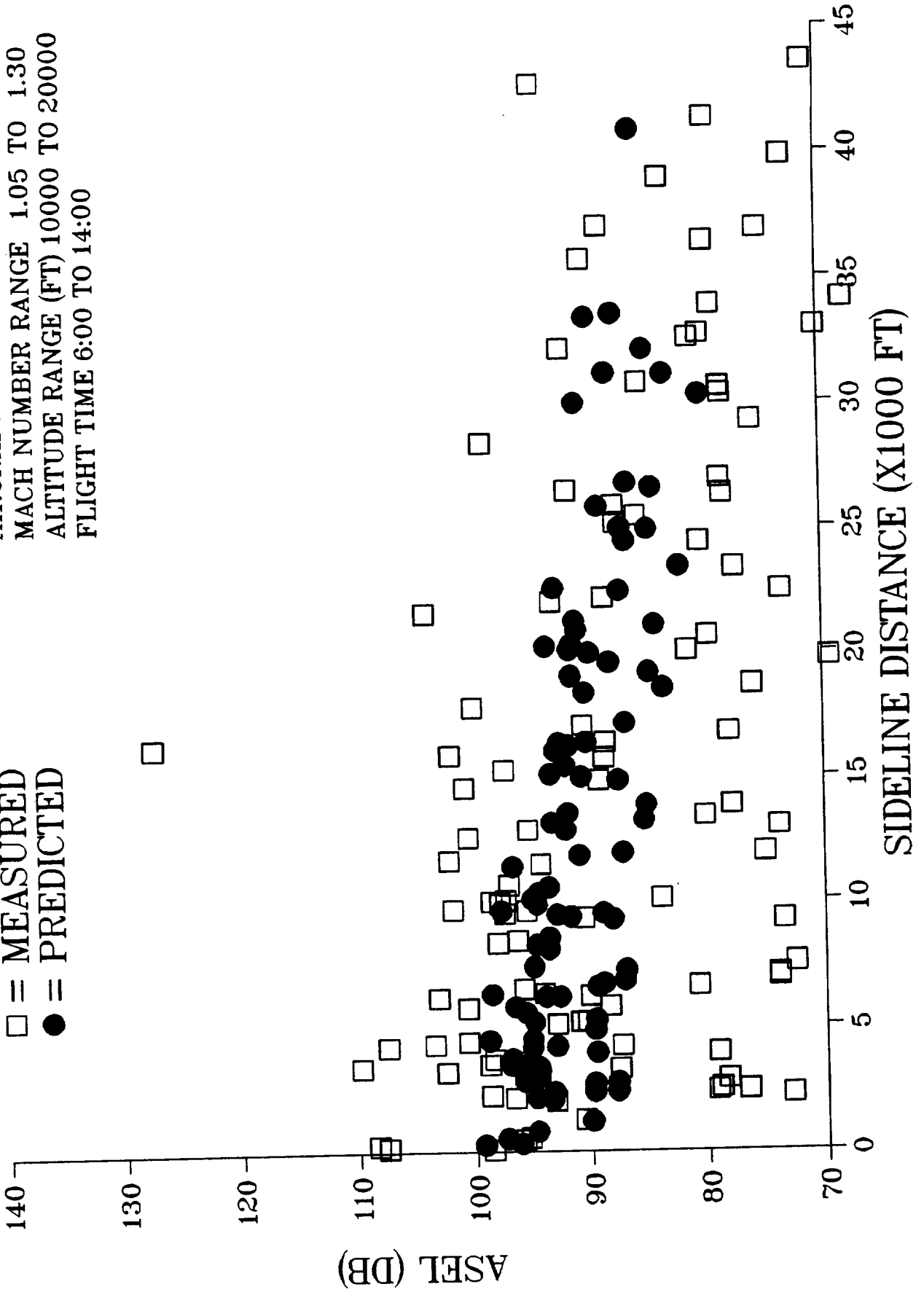
□ = MEASURED
● = PREDICTED



BOOMFILE DATA

AIRCRAFT TYPE ALL
MACH NUMBER RANGE 1.05 TO 1.30
ALTITUDE RANGE (FT) 10000 TO 20000
FLIGHT TIME 6:00 TO 14:00

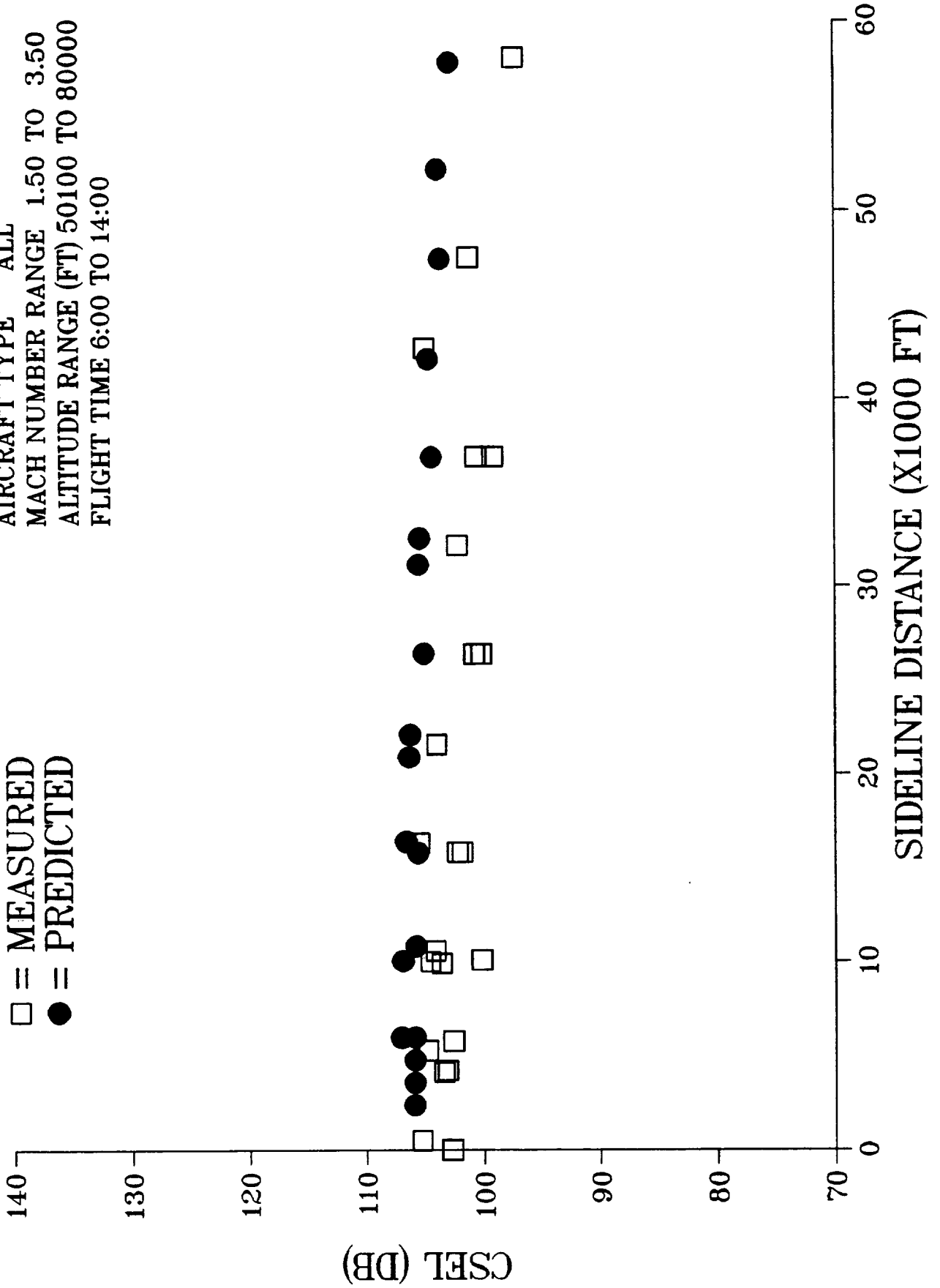
□ = MEASURED
● = PREDICTED



BOOMFILE DATA

AIRCRAFT TYPE ALL
MACH NUMBER RANGE 1.50 TO 3.50
ALTITUDE RANGE (FT) 50100 TO 80000
FLIGHT TIME 6:00 TO 14:00

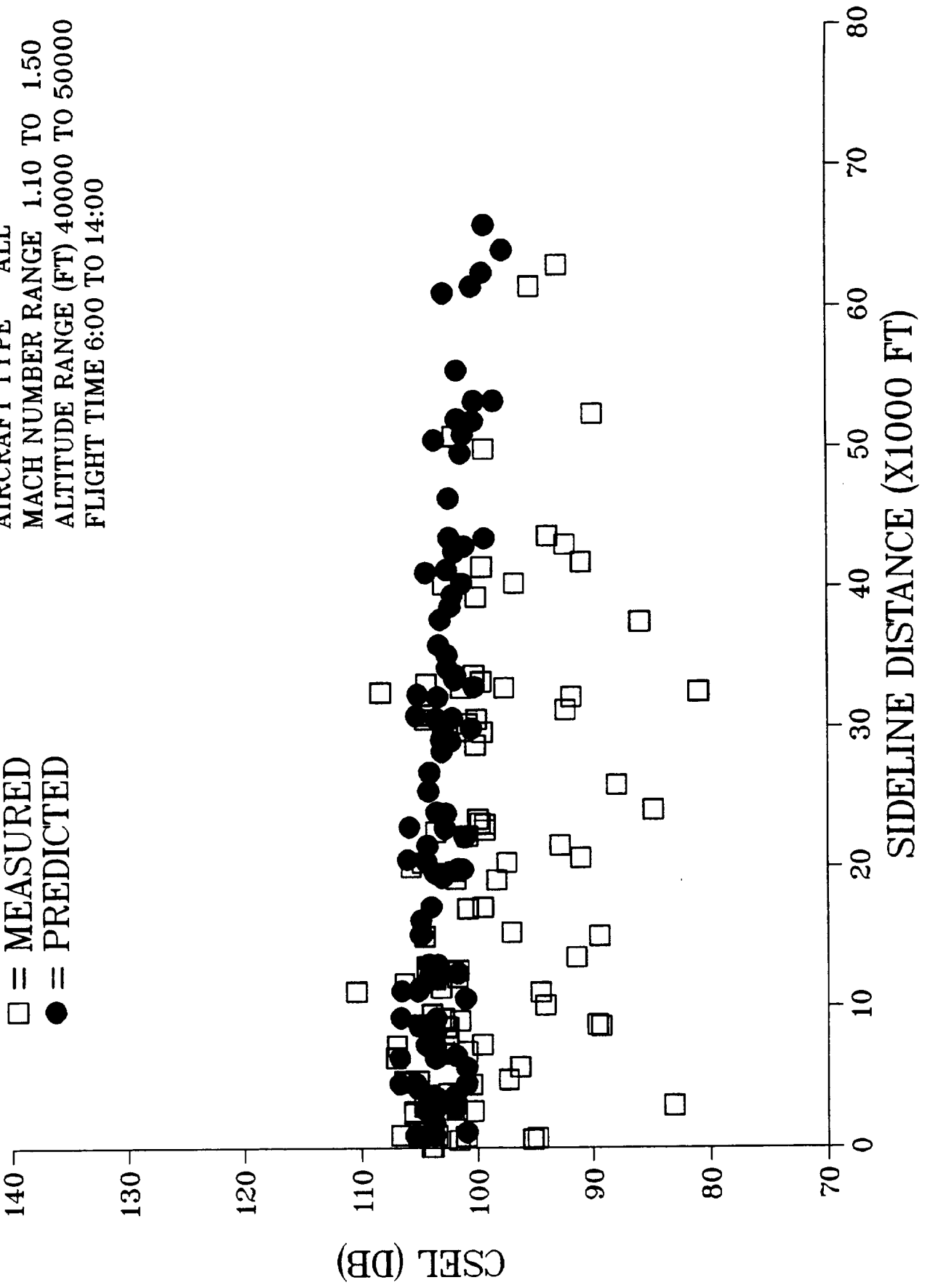
□ = MEASURED
● = PREDICTED



BOOMFILE DATA

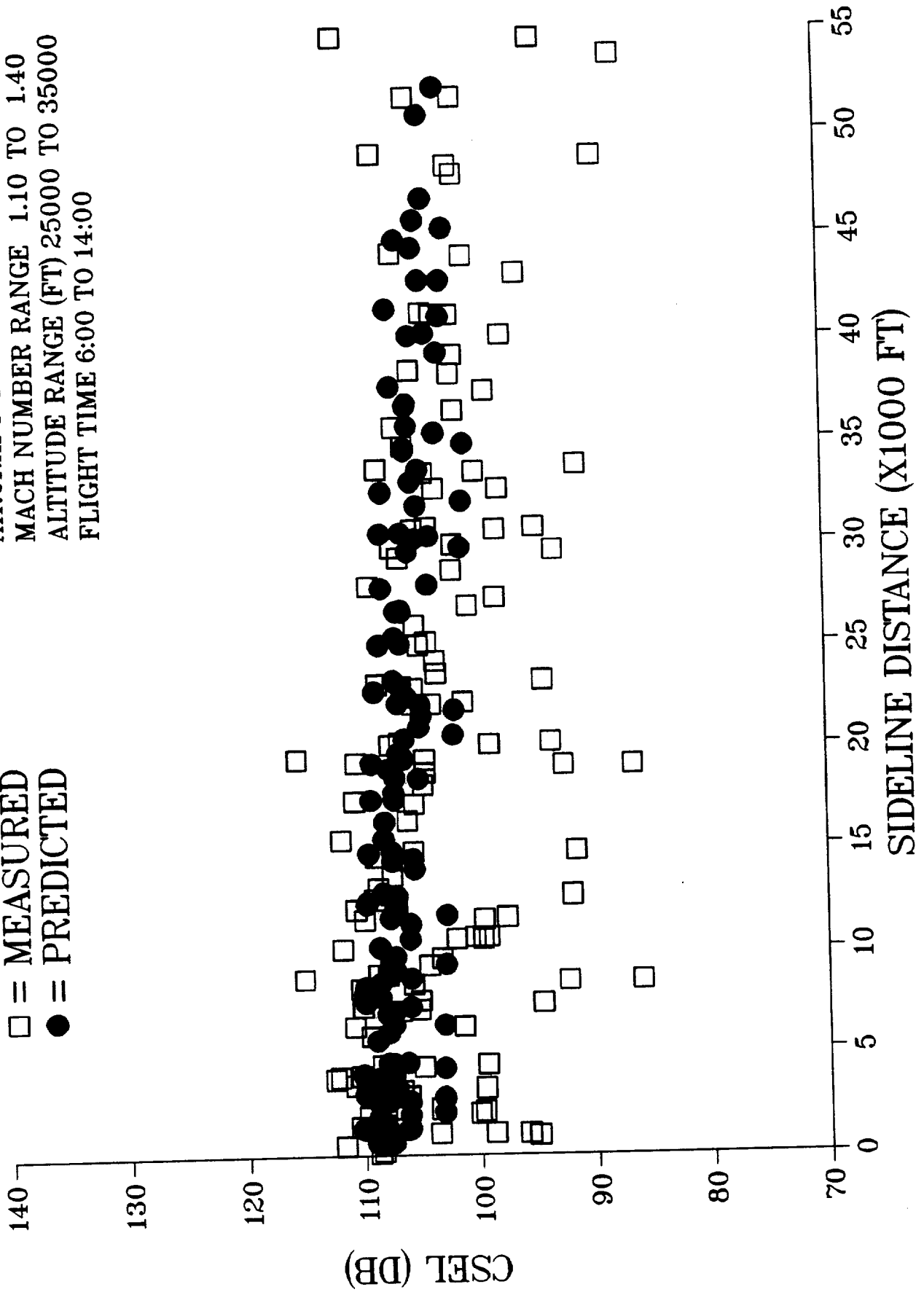
AIRCRAFT TYPE ALL
MACH NUMBER RANGE 1.10 TO 1.50
ALTITUDE RANGE (FT) 40000 TO 50000
FLIGHT TIME 6:00 TO 14:00

□ = MEASURED
● = PREDICTED



AIRCRAFT TYPE ALL
MACH NUMBER RANGE 1.10 TO 1.40
ALTITUDE RANGE (FT) 25000 TO 35000
FLIGHT TIME 6:00 TO 14:00

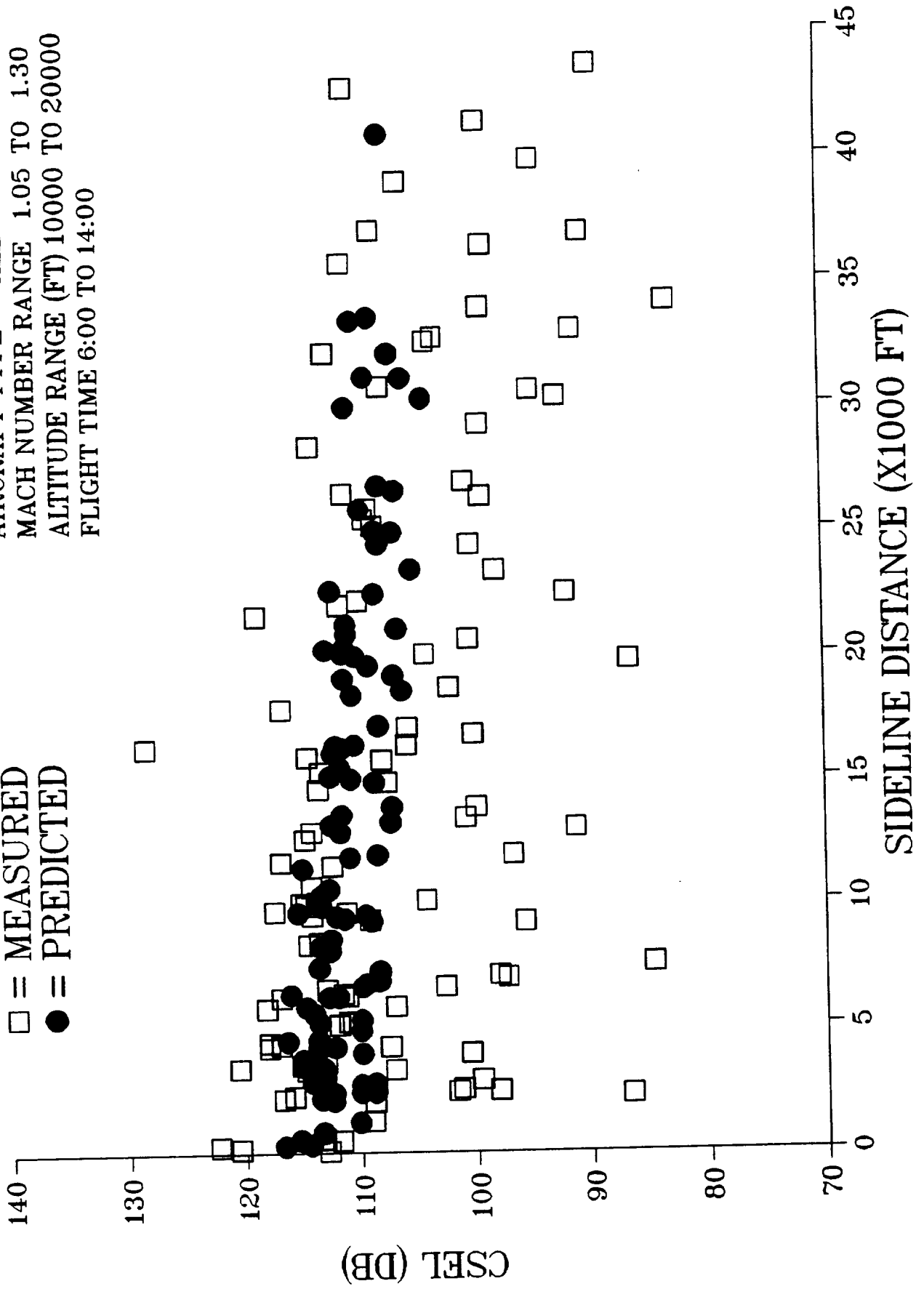
□ = MEASURED
● = PREDICTED



B20

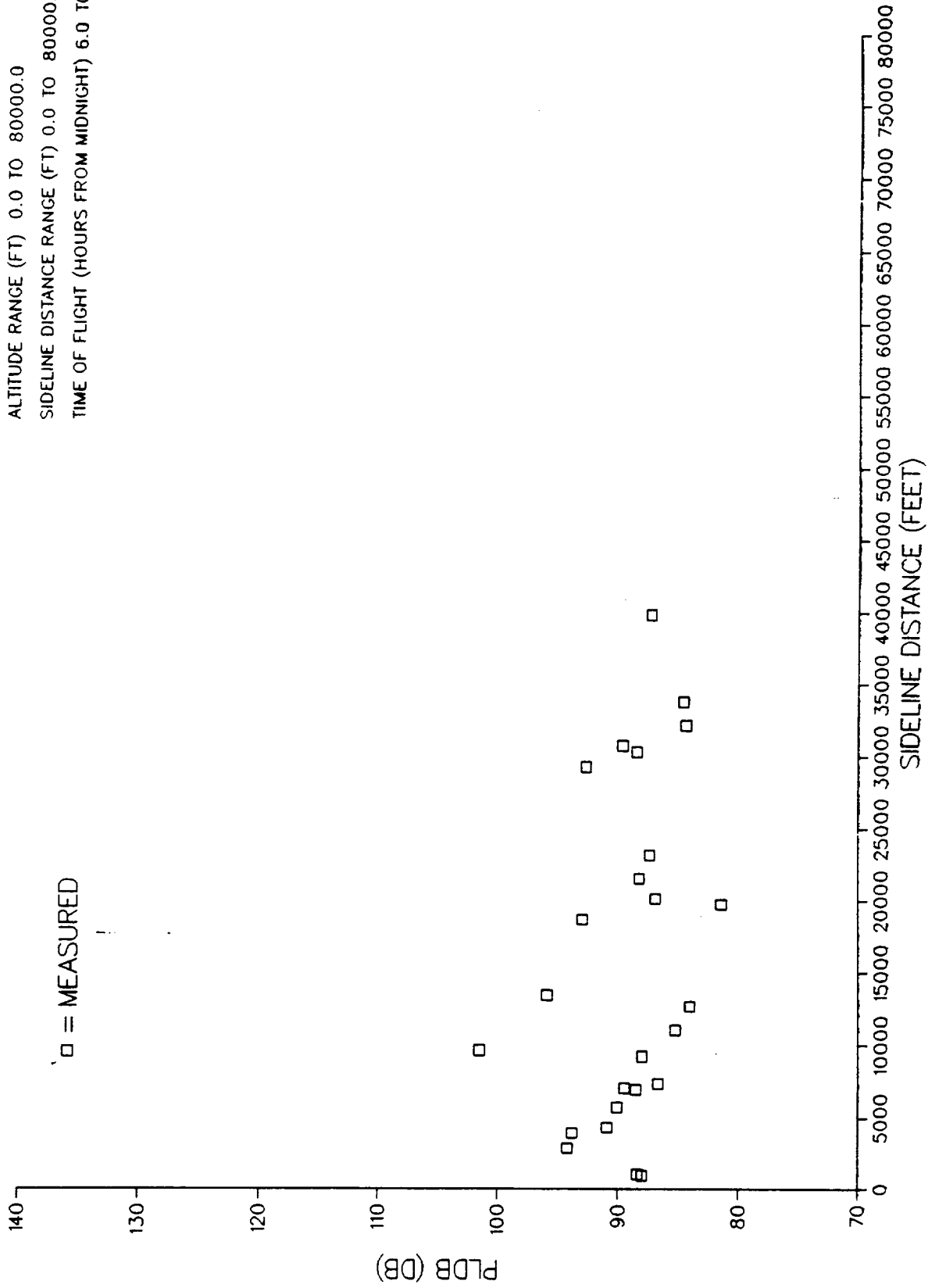
AIRCRAFT TYPE ALL
MACH NUMBER RANGE 1.05 TO 1.30
ALTITUDE RANGE (FT) 10000 TO 20000
FLIGHT TIME 6:00 TO 14:00

□ = MEASURED
● = PREDICTED



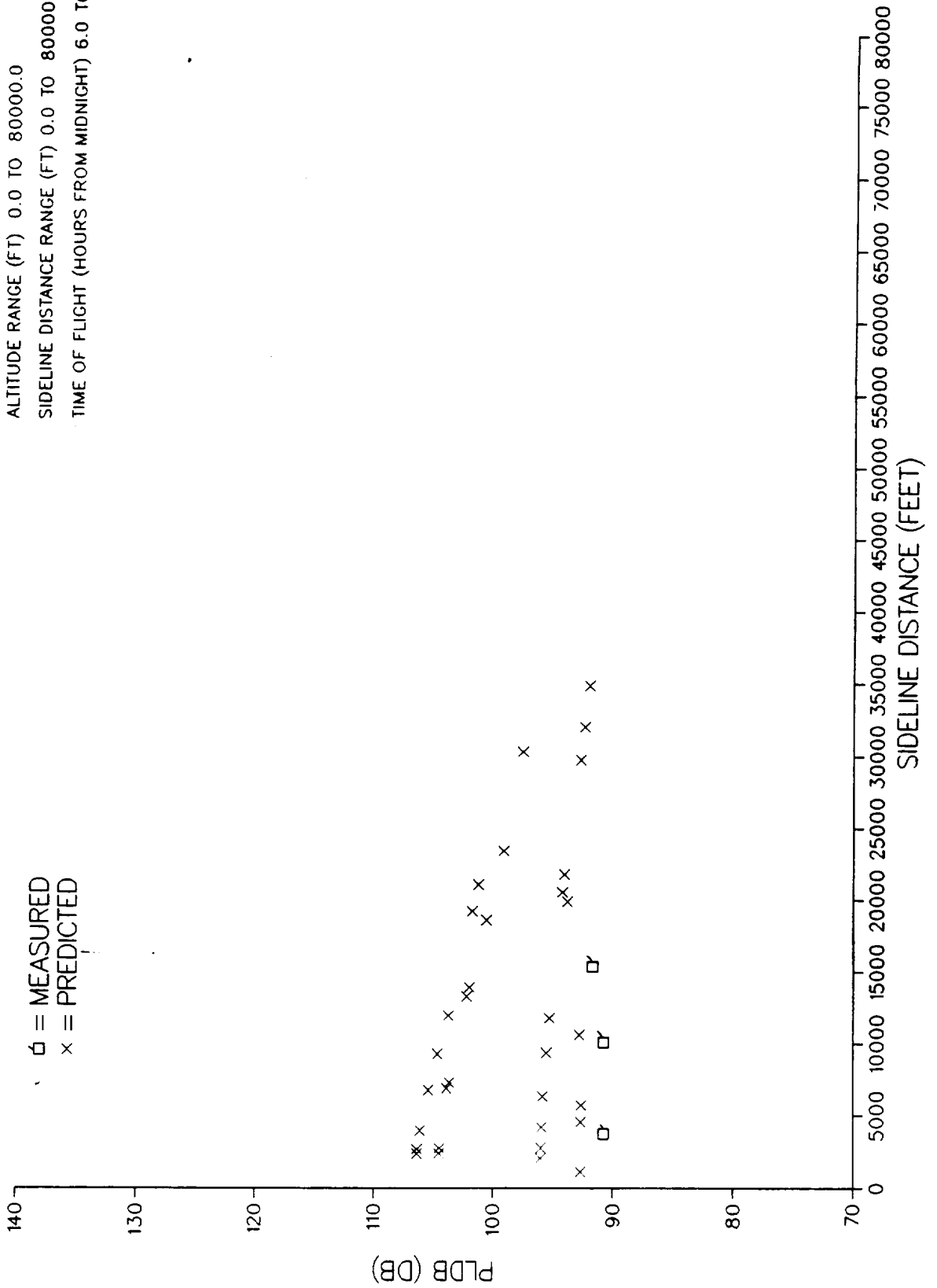
BOOMFILE MEASURED DATA
VS
MDBOOM CALCULATED DATA

AIRCRAFT TYPE AT38
MACH NUMBER RANGE 0.00 TO 4.00
ALTITUDE RANGE (FT) 0.0 TO 80000.0
SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



BOOMFILE MEASURED DATA
 VS
 MDBOOM CALCULATED DATA

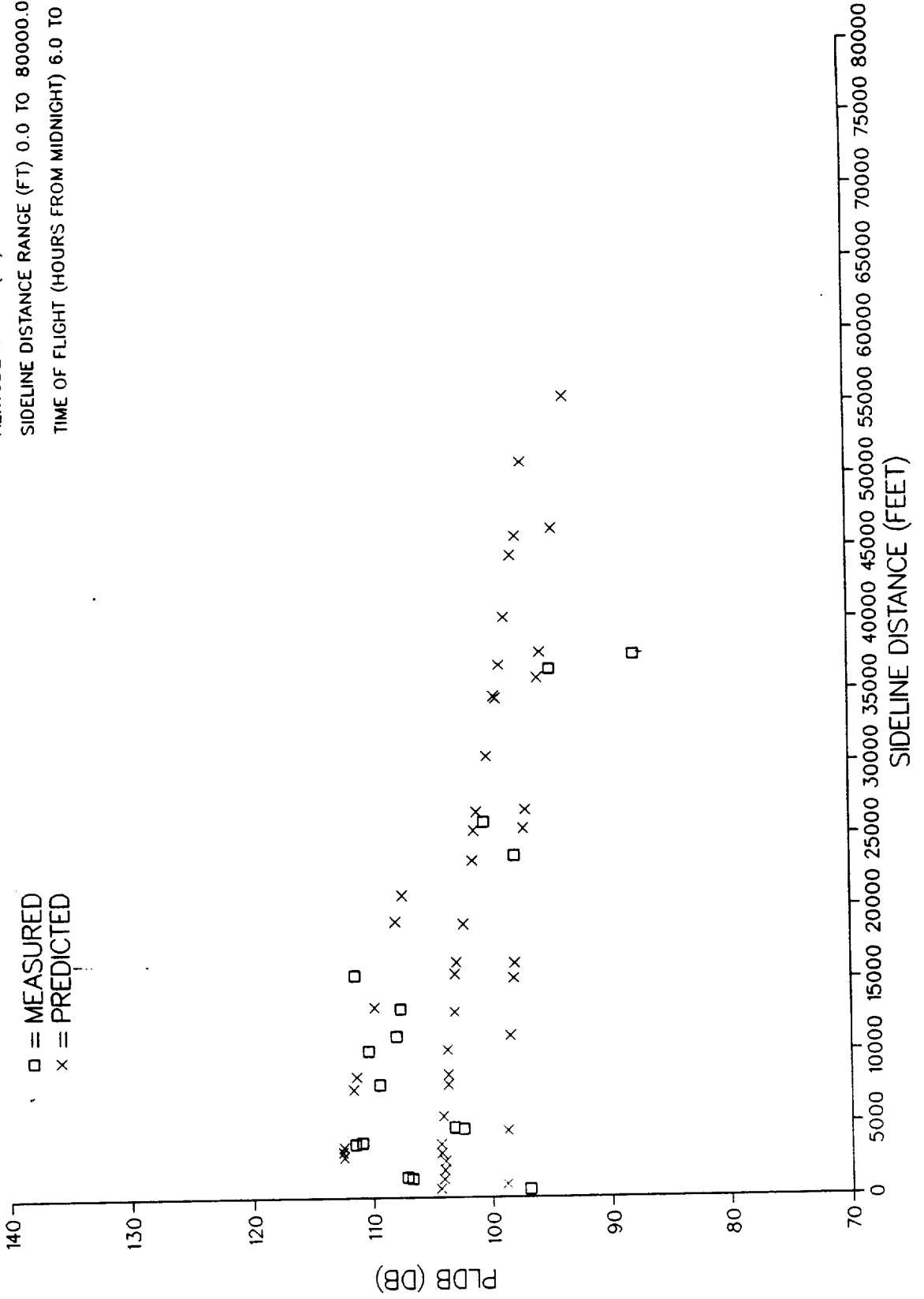
AIRCRAFT TYPE T38
 MACH NUMBER RANGE 0.00 TO 4.00
 ALTITUDE RANGE (FT) 0.0 TO 80000.0
 SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
 TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



BOOMFILE MEASURED DATA
 VS
 MDBOOM CALCULATED DATA

AIRCRAFT TYPE F4
 MACH NUMBER RANGE 0.00 TO 4.00
 ALTITUDE RANGE (FT) 0.0 TO 80000.0
 SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
 TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0

□ = MEASURED
 x = PREDICTED



BOOMFILE MEASURED DATA
 VS
 MDBOOM CALCULATED DATA

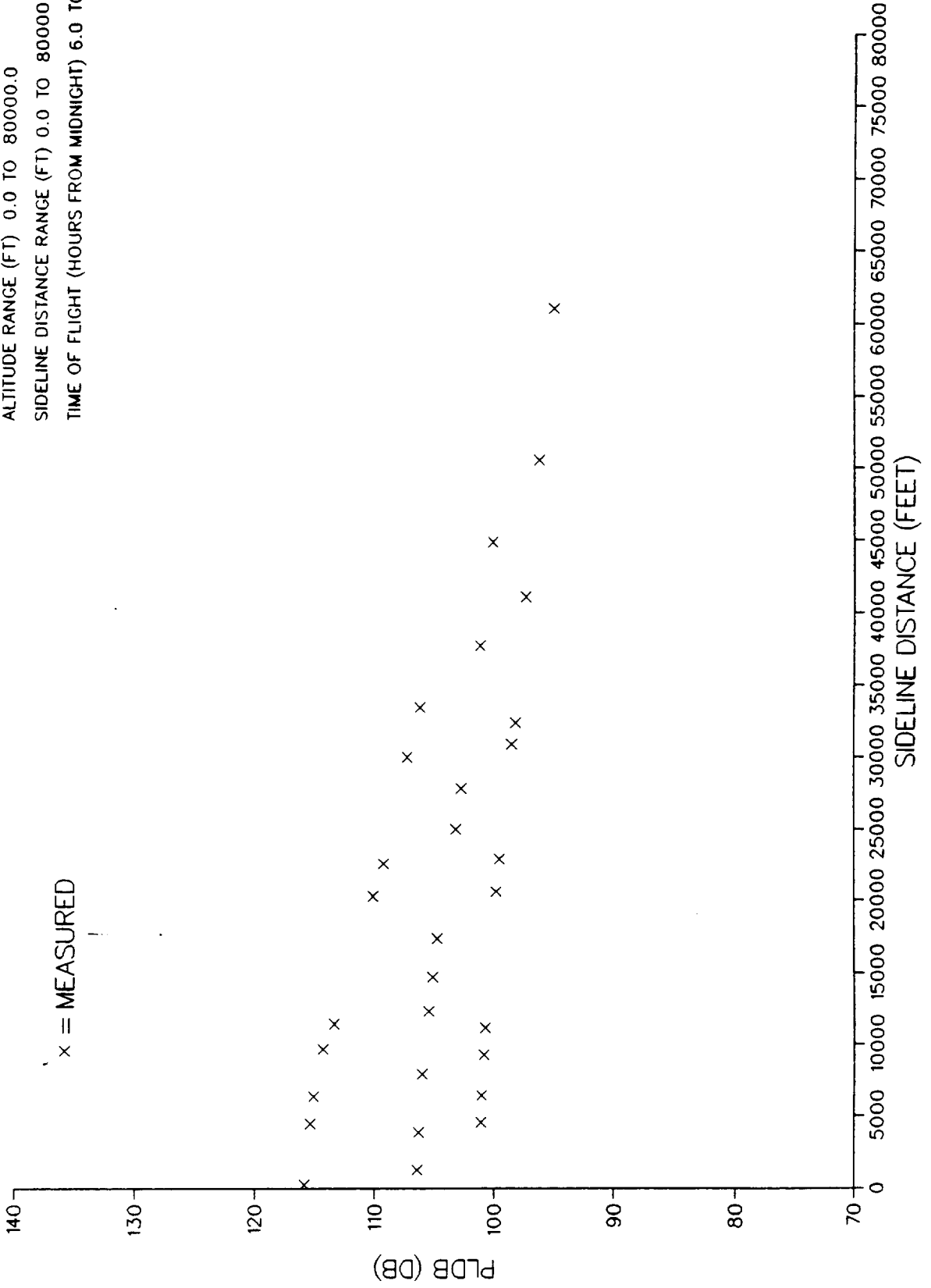
AIRCRAFT TYPE F111

MACH NUMBER RANGE 0.00 TO 4.00

ALTITUDE RANGE (FT) 0.0 TO 80000.0

SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0

TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



BOOMFILE MEASURED DATA
VS
MDBOOM CALCULATED DATA

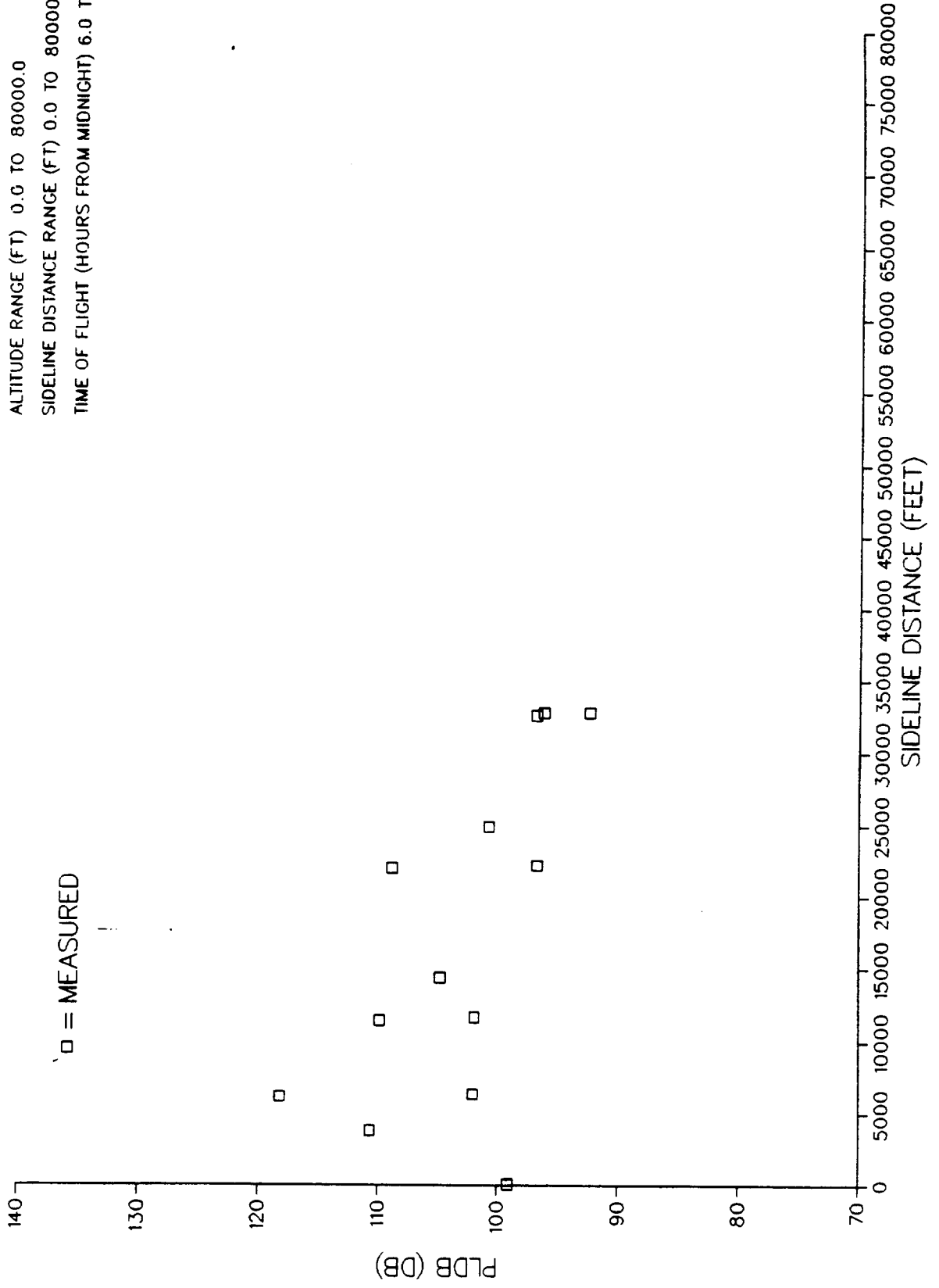
AIRCRAFT TYPE F111D

MACH NUMBER RANGE 0.00 TO 4.00

ALTITUDE RANGE (FT) 0.0 TO 80000.0

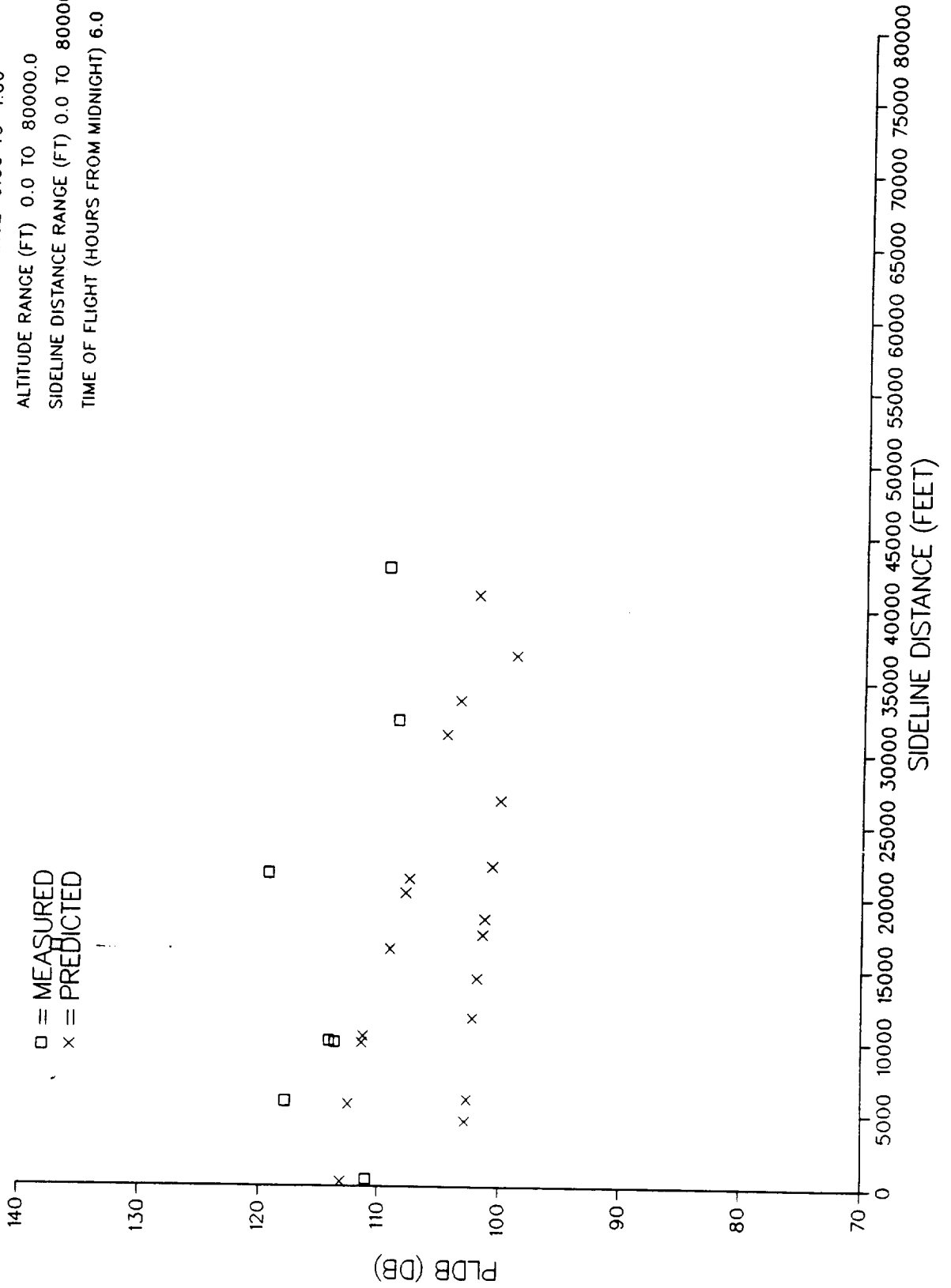
SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0

TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



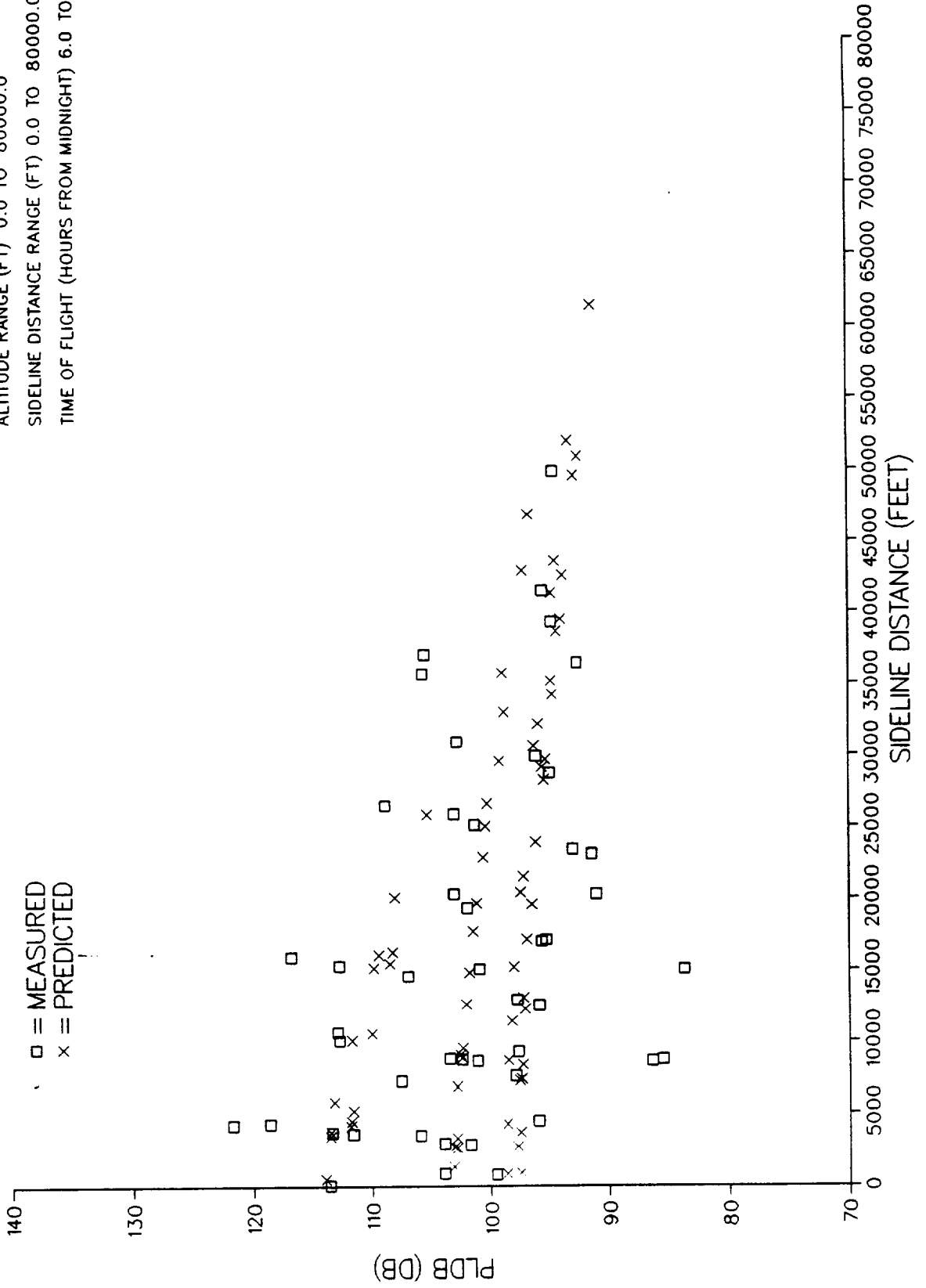
BOOMFILE MEASURED DATA
 VS
 MDBOOM CALCULATED DATA

AIRCRAFT TYPE F14
 MACH NUMBER RANGE 0.00 TO 4.00
 ALTITUDE RANGE (FT) 0.0 TO 80000.0
 SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
 TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



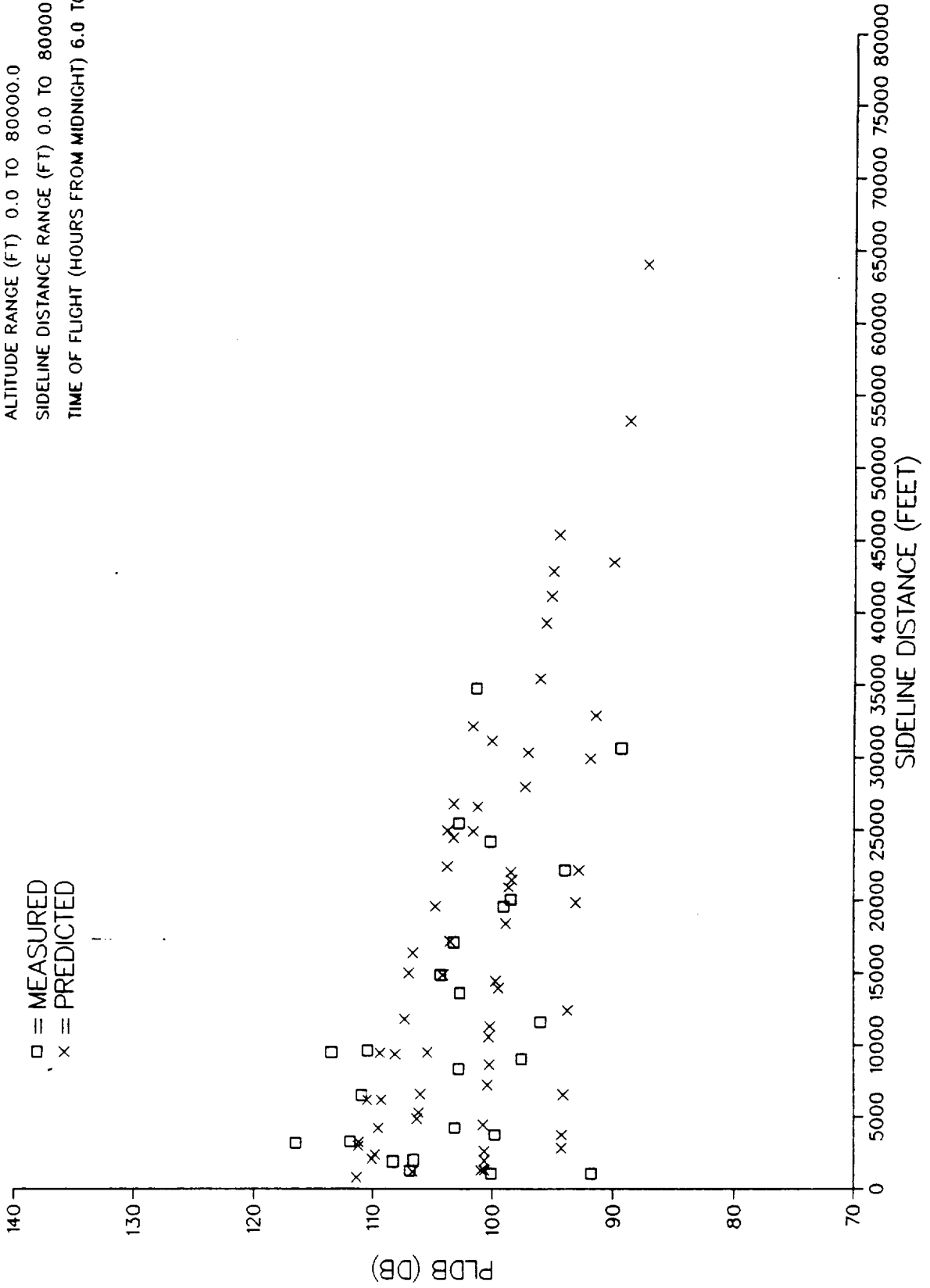
BOOMFILE MEASURED DATA
 VS
 MDBOOM CALCULATED DATA

AIRCRAFT TYPE F15
 MACH NUMBER RANGE 0.00 TO 4.00
 ALTITUDE RANGE (FT) 0.0 TO 80000.0
 SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
 TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



BOOMFILE MEASURED DATA
 VS
 MDBOOM CALCULATED DATA

AIRCRAFT TYPE F16
 MACH NUMBER RANGE 0.00 TO 4.00
 ALTITUDE RANGE (FT) 0.0 TO 80000.0
 SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
 TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



BOOMFILE MEASURED DATA
 VS
 MDBOOM CALCULATED DATA

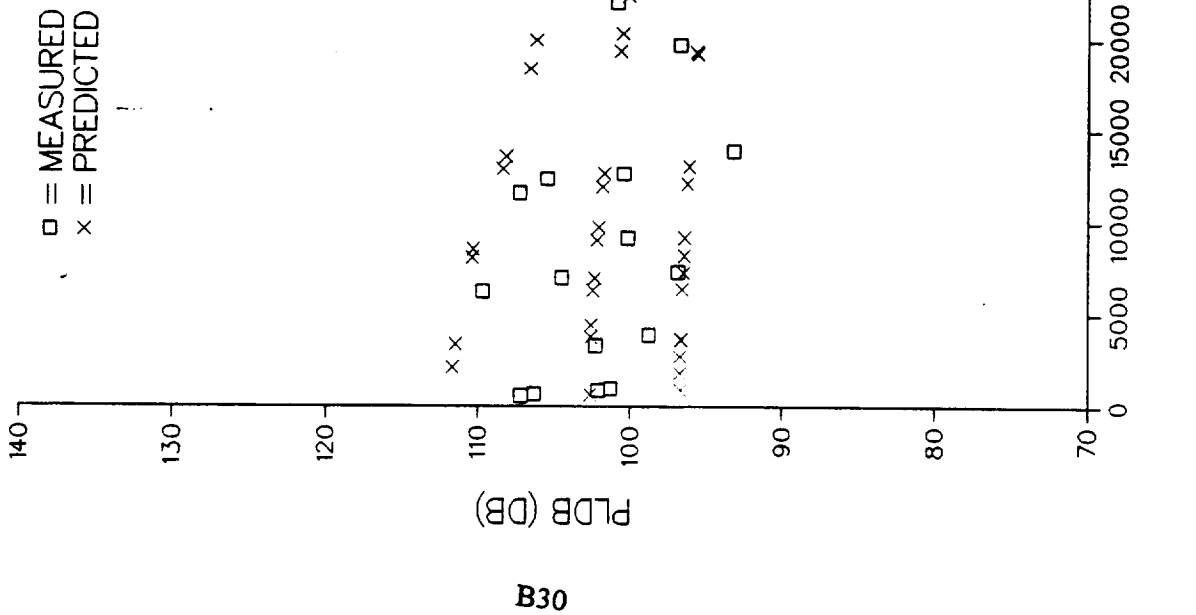
AIRCRAFT TYPE F18

MACH NUMBER RANGE 0.00 TO 4.00

ALTITUDE RANGE (FT) 0.0 TO 80000.0

SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0

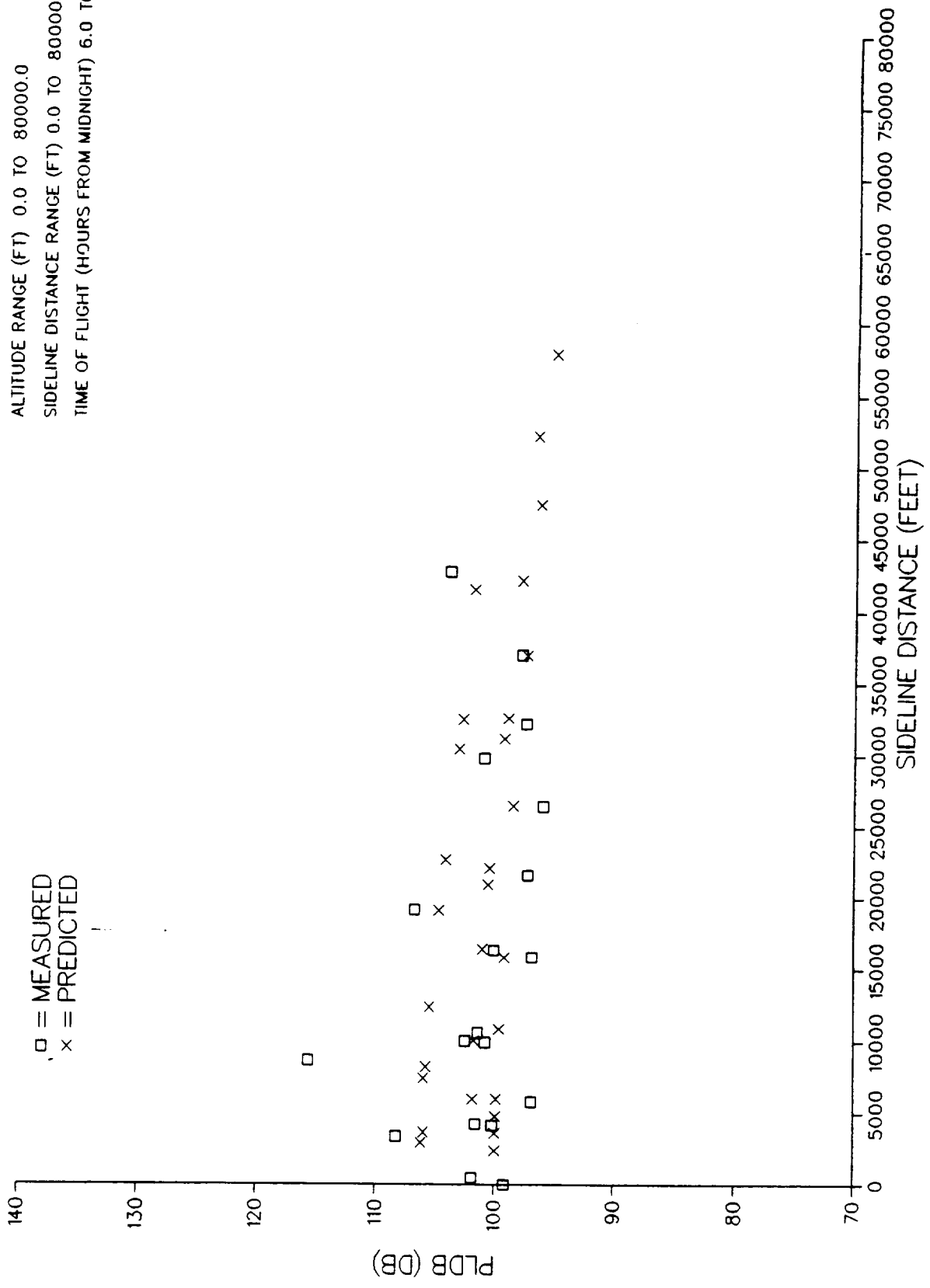
TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



B30

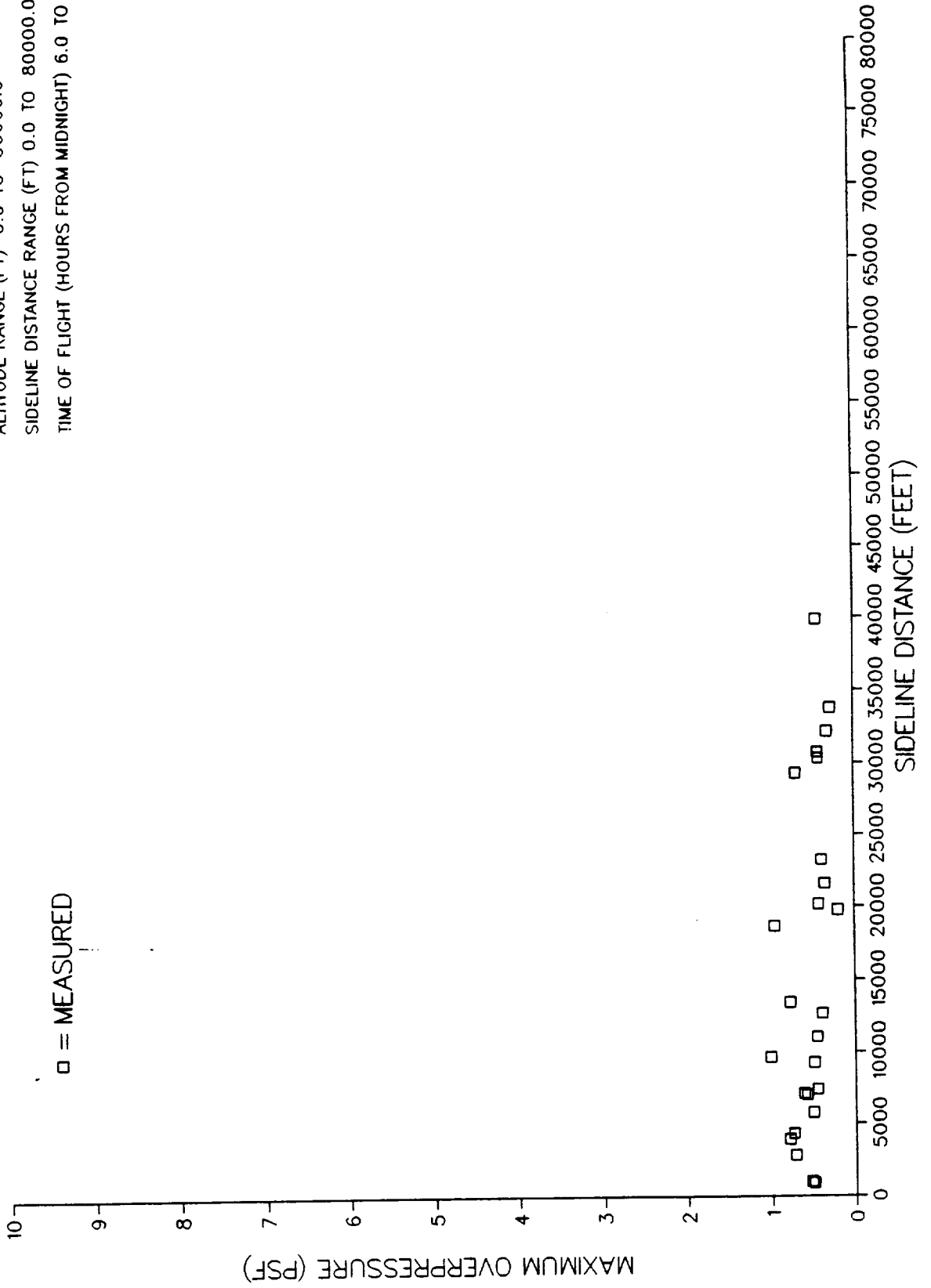
BOOMFILE MEASURED DATA
 VS
 MDBOOM CALCULATED DATA

AIRCRAFT TYPE SR71
 MACH NUMBER RANGE 0.00 TO 4.00
 ALTITUDE RANGE (FT) 0.0 TO 80000.0
 SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
 TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



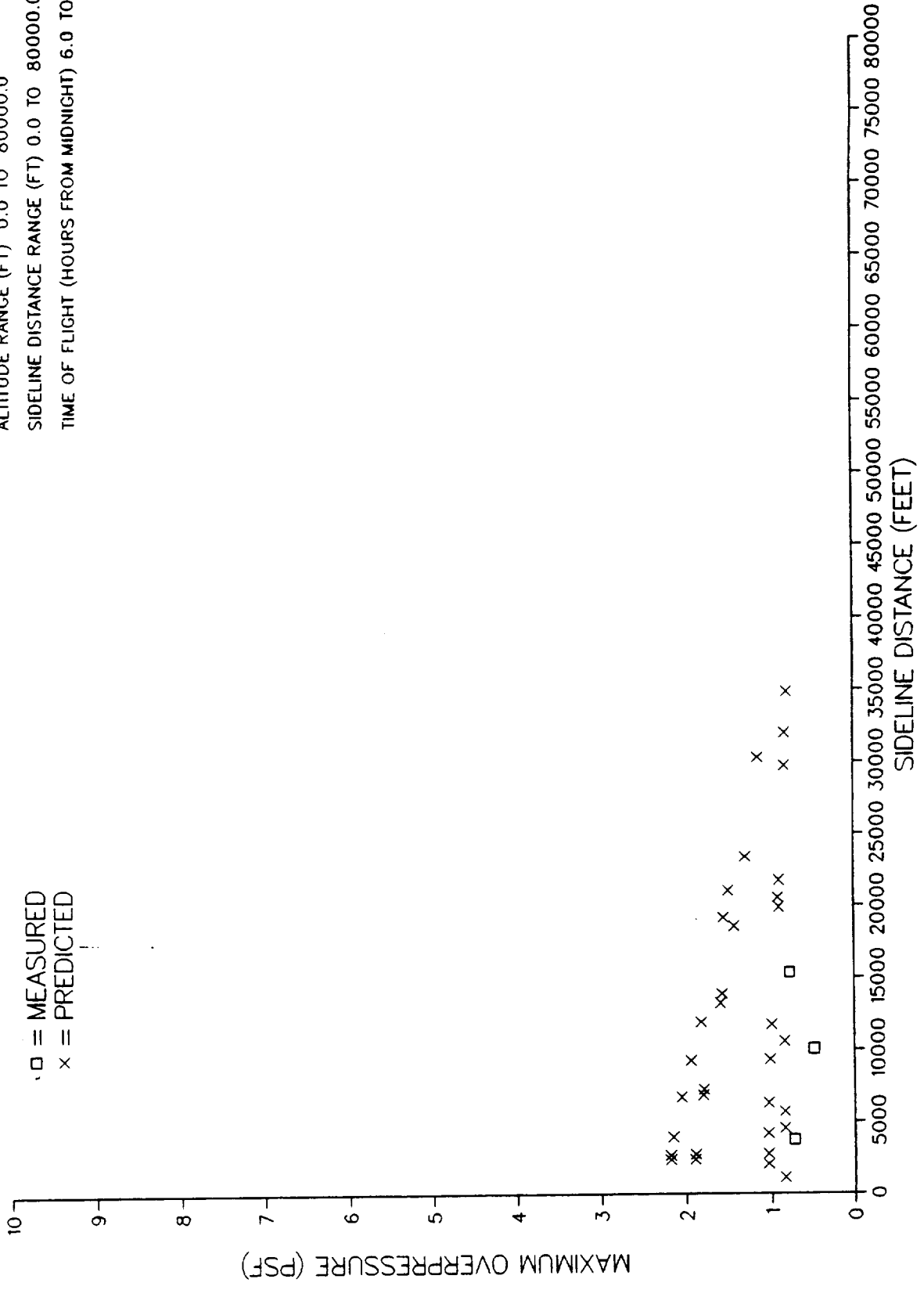
BOOMFILE MEASURED DATA
 VS
 MDBOOM CALCULATED DATA

AIRCRAFT TYPE A138
 MACH NUMBER RANGE 0.00 TO 4.00
 ALTITUDE RANGE (FT) 0.0 TO 80000.0
 SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
 TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



BOOMFILE MEASURED DATA
 VS
 MDROOM CALCULATED DATA

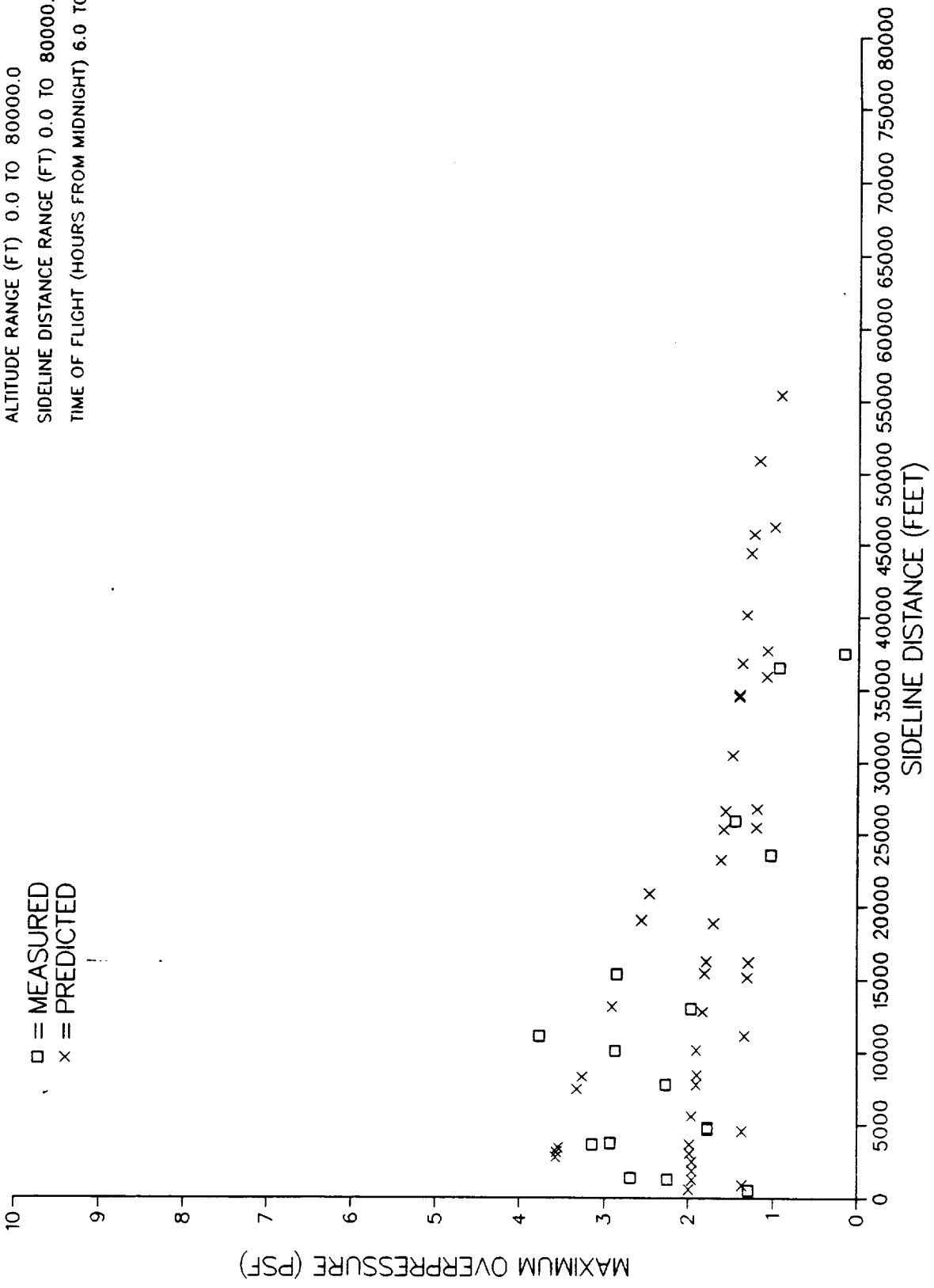
AIRCRAFT TYPE T38
 MACH NUMBER RANGE 0.00 TO 4.00
 ALTITUDE RANGE (FT) 0.0 TO 80000.0
 SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
 TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



BOOMFILE MEASURED DATA
 VS
 MDBOOM CALCULATED DATA

AIRCRAFT TYPE F4
 MACH NUMBER RANGE 0.00 TO 4.00
 ALTITUDE RANGE (FT) 0.0 TO 80000.0
 SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
 TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0

□ = MEASURED
 x = PREDICTED



BOOMFILE MEASURED DATA
 VS
 MDBOOM CALCULATED DATA

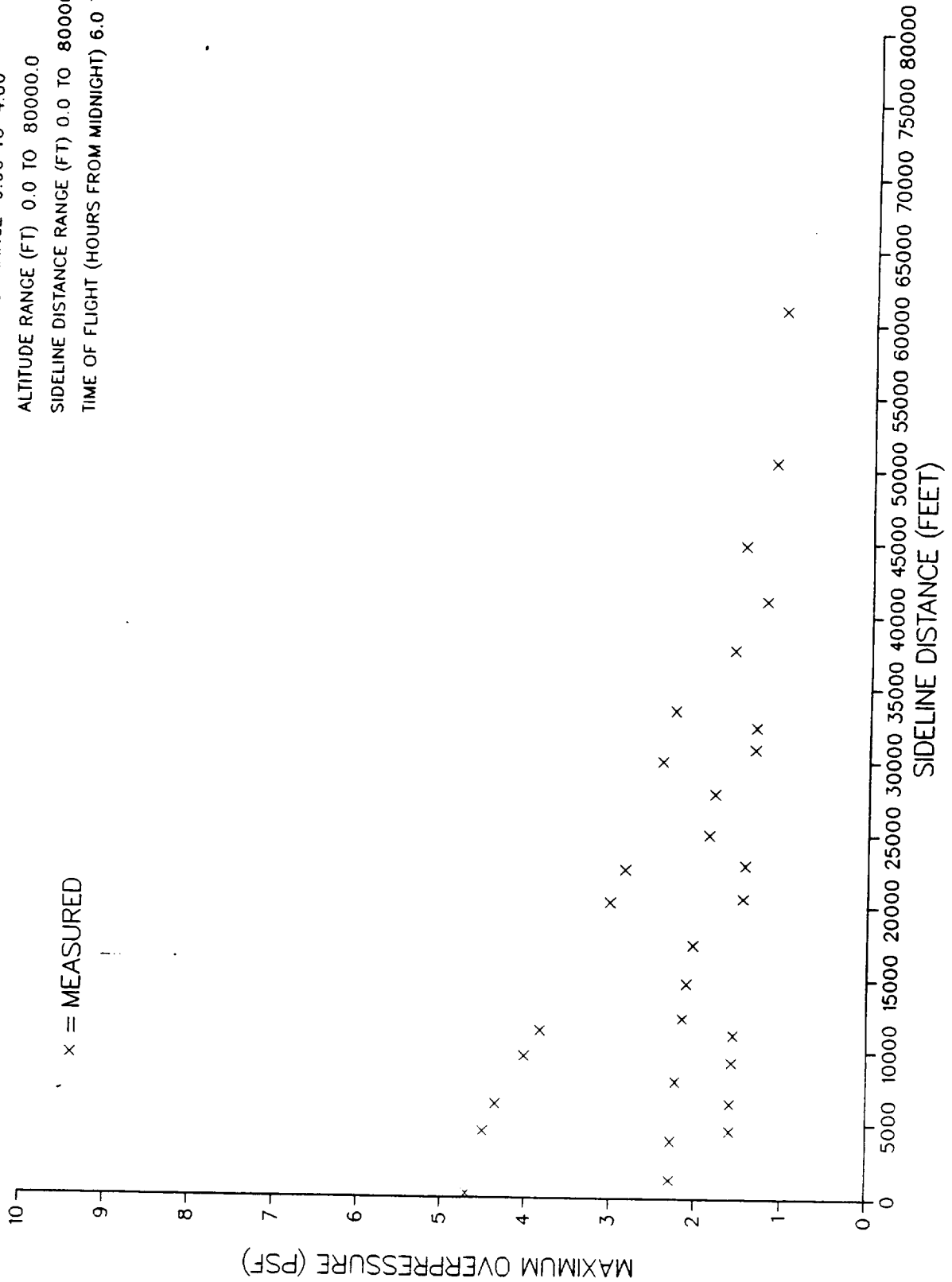
AIRCRAFT TYPE F111

MACH NUMBER RANGE 0.00 TO 4.00

ALTITUDE RANGE (FT) 0.0 TO 80000.0

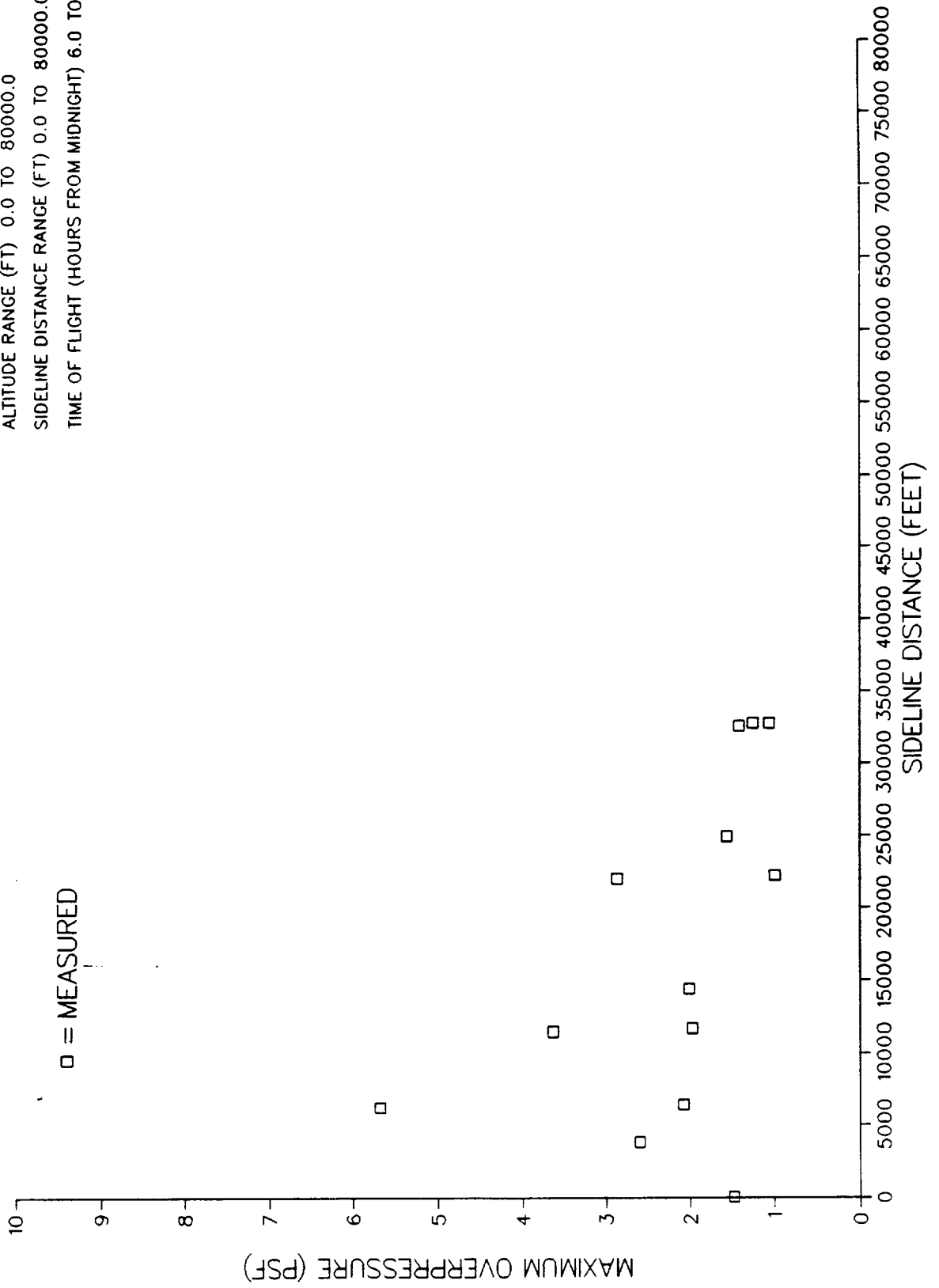
SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0

TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



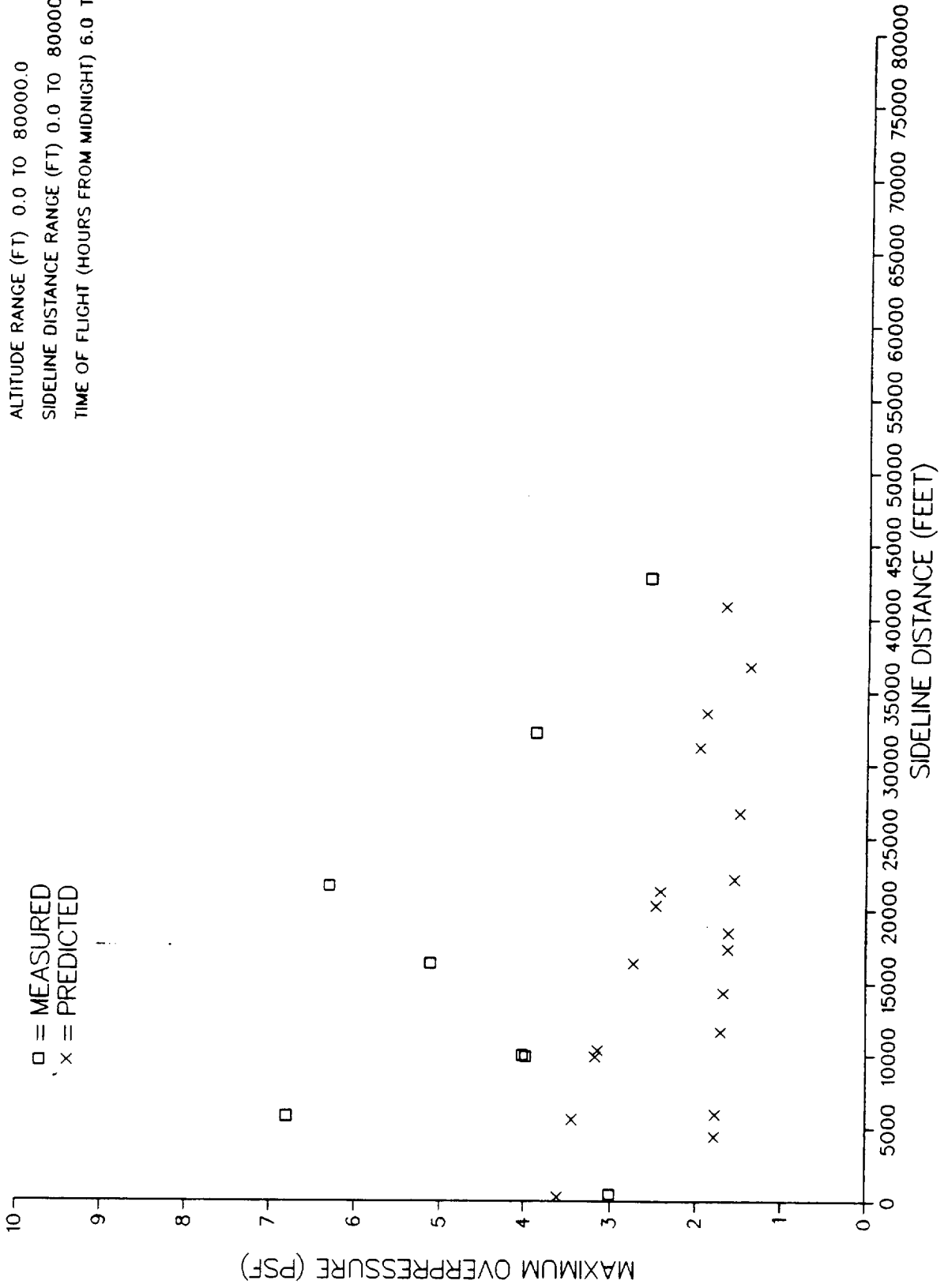
BOOMFILE MEASURED DATA
 VS
 MDBOOM CALCULATED DATA

AIRCRAFT TYPE F111D
 MACH NUMBER RANGE 0.00 TO 4.00
 ALTITUDE RANGE (FT) 0.0 TO 80000.0
 SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
 TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



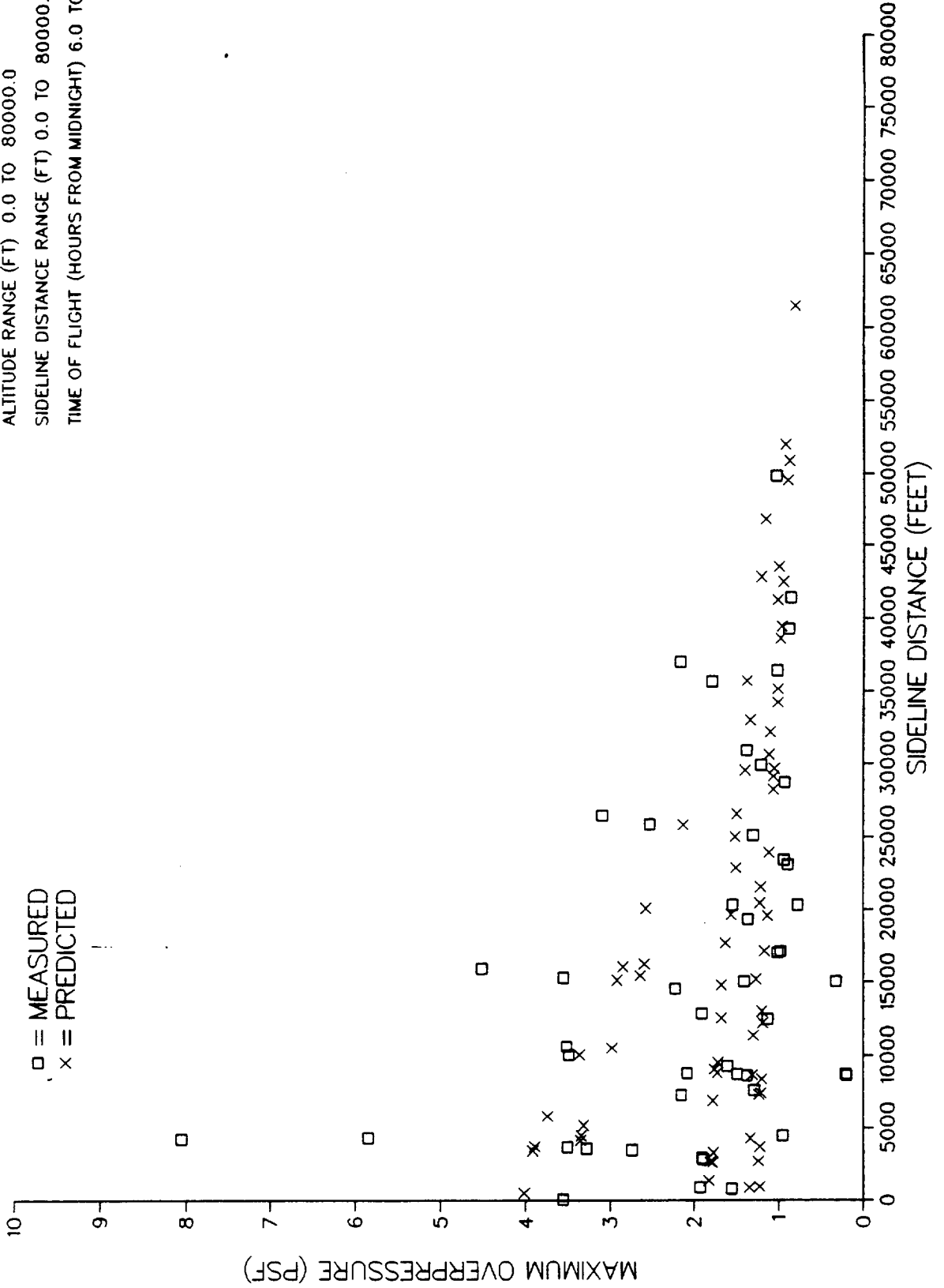
BOOMFILE MEASURED DATA
 VS
 MDBOOM CALCULATED DATA

AIRCRAFT TYPE F14
 MACH NUMBER RANGE 0.00 TO 4.00
 ALTITUDE RANGE (FT) 0.0 TO 80000.0
 SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
 TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



BOOMFILE MEASURED DATA
 VS
 MDBOOM CALCULATED DATA

AIRCRAFT TYPE F15
 MACH NUMBER RANGE 0.00 TO 4.00
 ALTITUDE RANGE (FT) 0.0 TO 80000.0
 SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
 TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



BOOMFILE MEASURED DATA
 VS
 MDBOOM CALCULATED DATA

AIRCRAFT TYPE F16

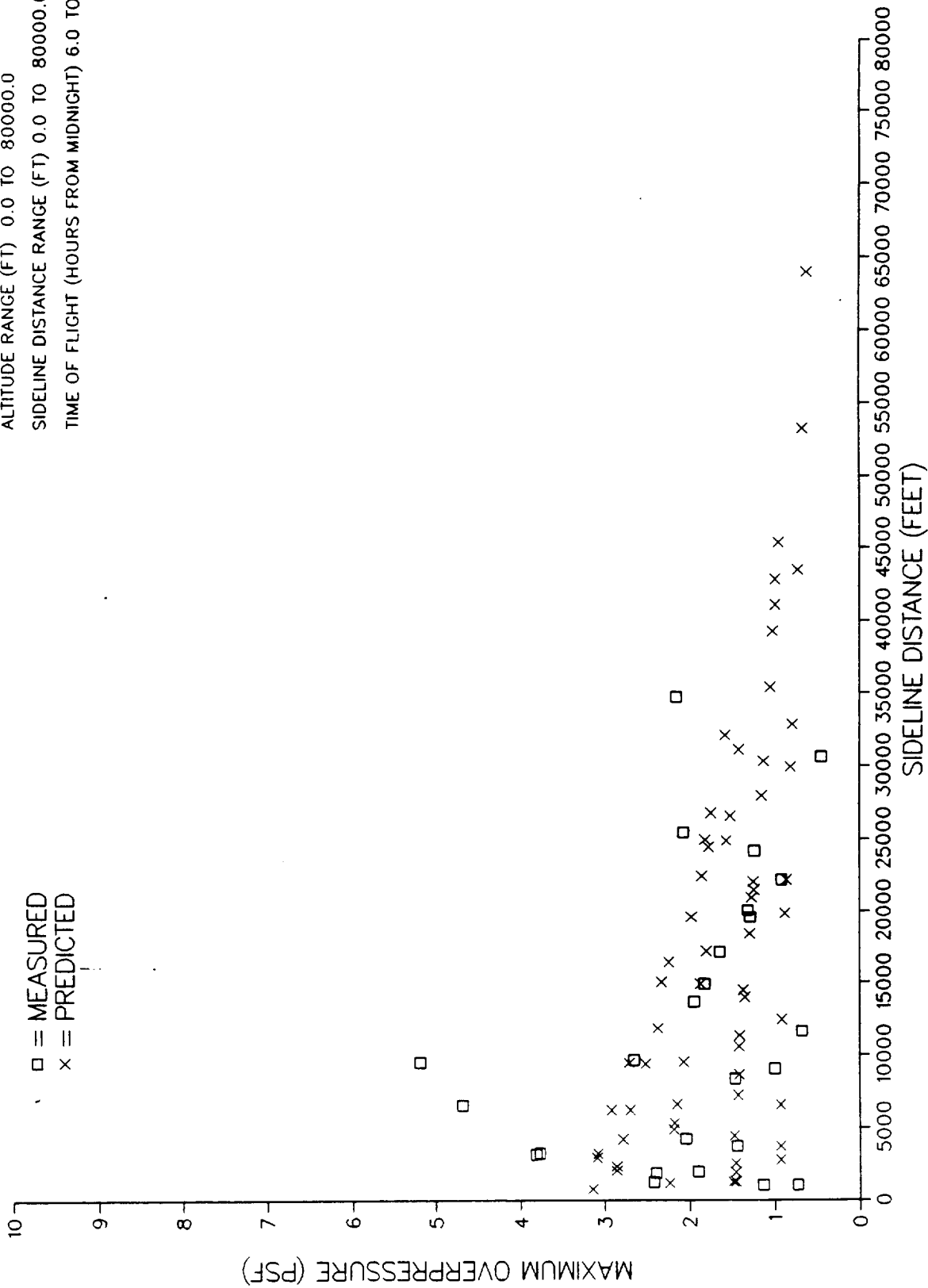
MACH NUMBER RANGE 0.00 TO 4.00

ALTITUDE RANGE (FT) 0.0 TO 80000.0

SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0

TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0

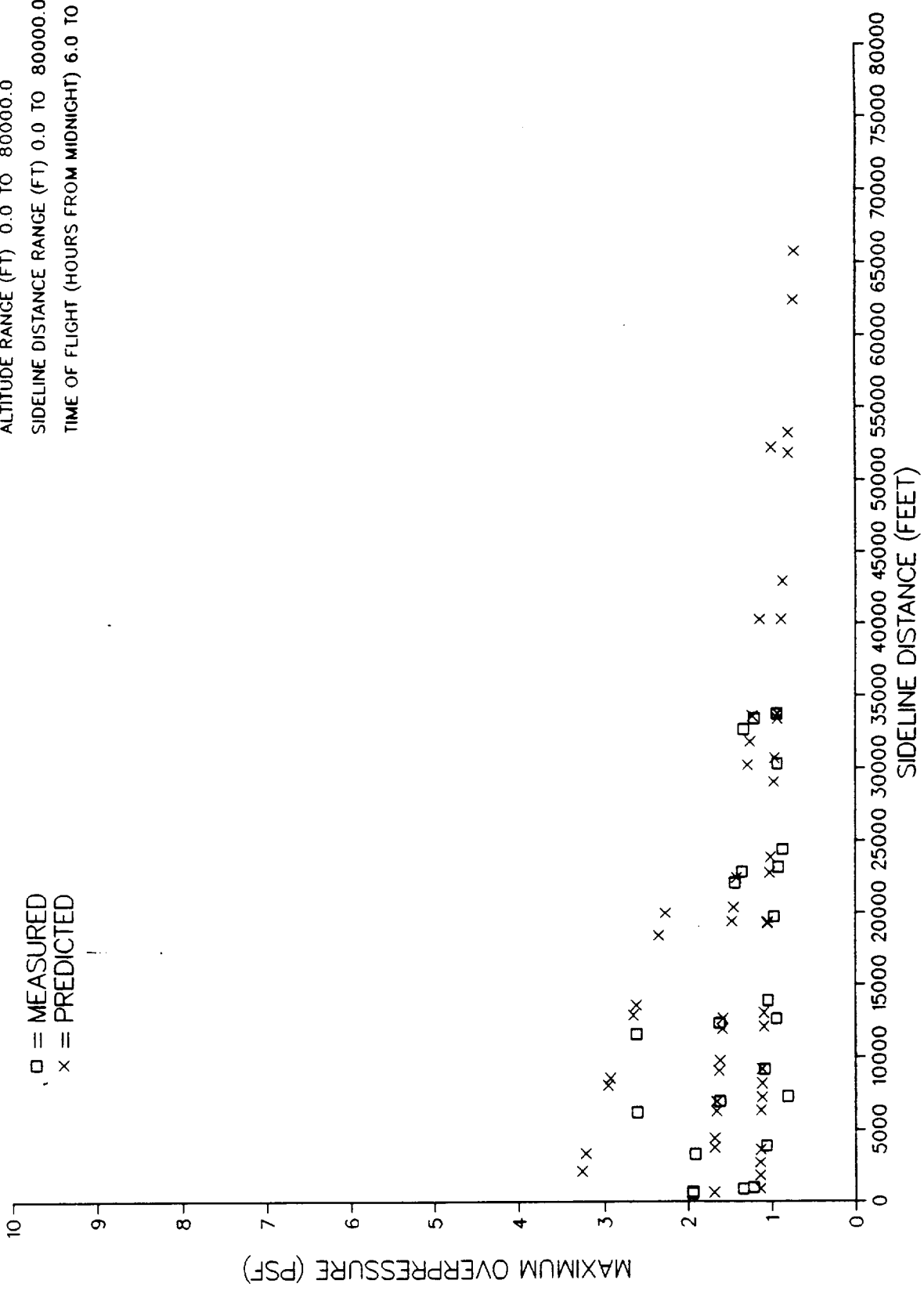
□ = MEASURED
 x = PREDICTED



BOOMFILE MEASURED DATA
 VS
 MDBOOM CALCULATED DATA

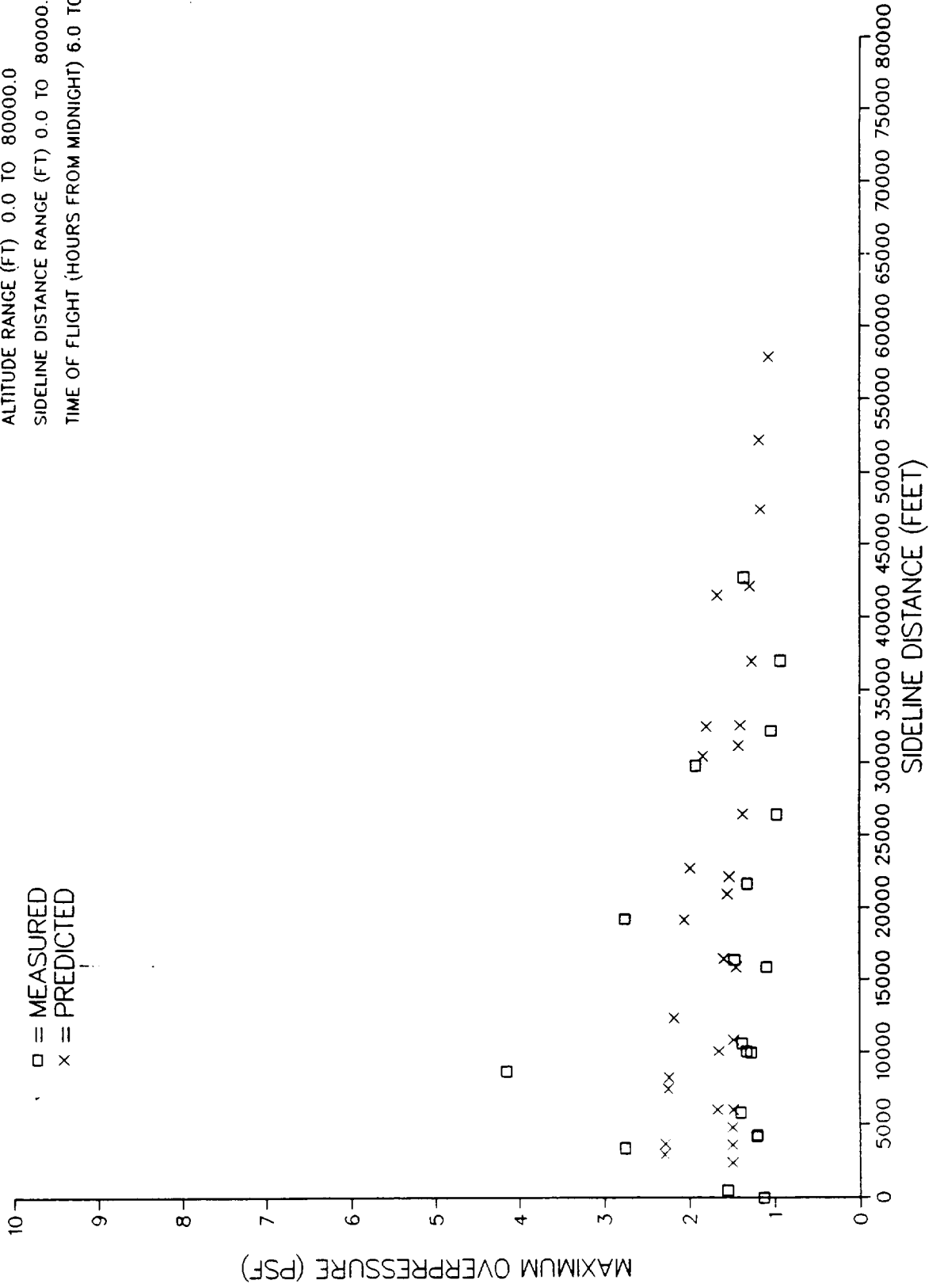
AIRCRAFT TYPE F18
 MACH NUMBER RANGE 0.00 TO 4.00
 ALTITUDE RANGE (FT) 0.0 TO 80000.0
 SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
 TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0

□ = MEASURED
 x = PREDICTED



BOOMFILE MEASURED DATA
 vs
 MDBOOM CALCULATED DATA

AIRCRAFT TYPE SR71
 MACH NUMBER RANGE 0.00 TO 4.00
 ALTITUDE RANGE (FT) 0.0 TO 80000.0
 SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
 TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



BOOMFILE MEASURED DATA
VS
MDBOOM CALCULATED DATA

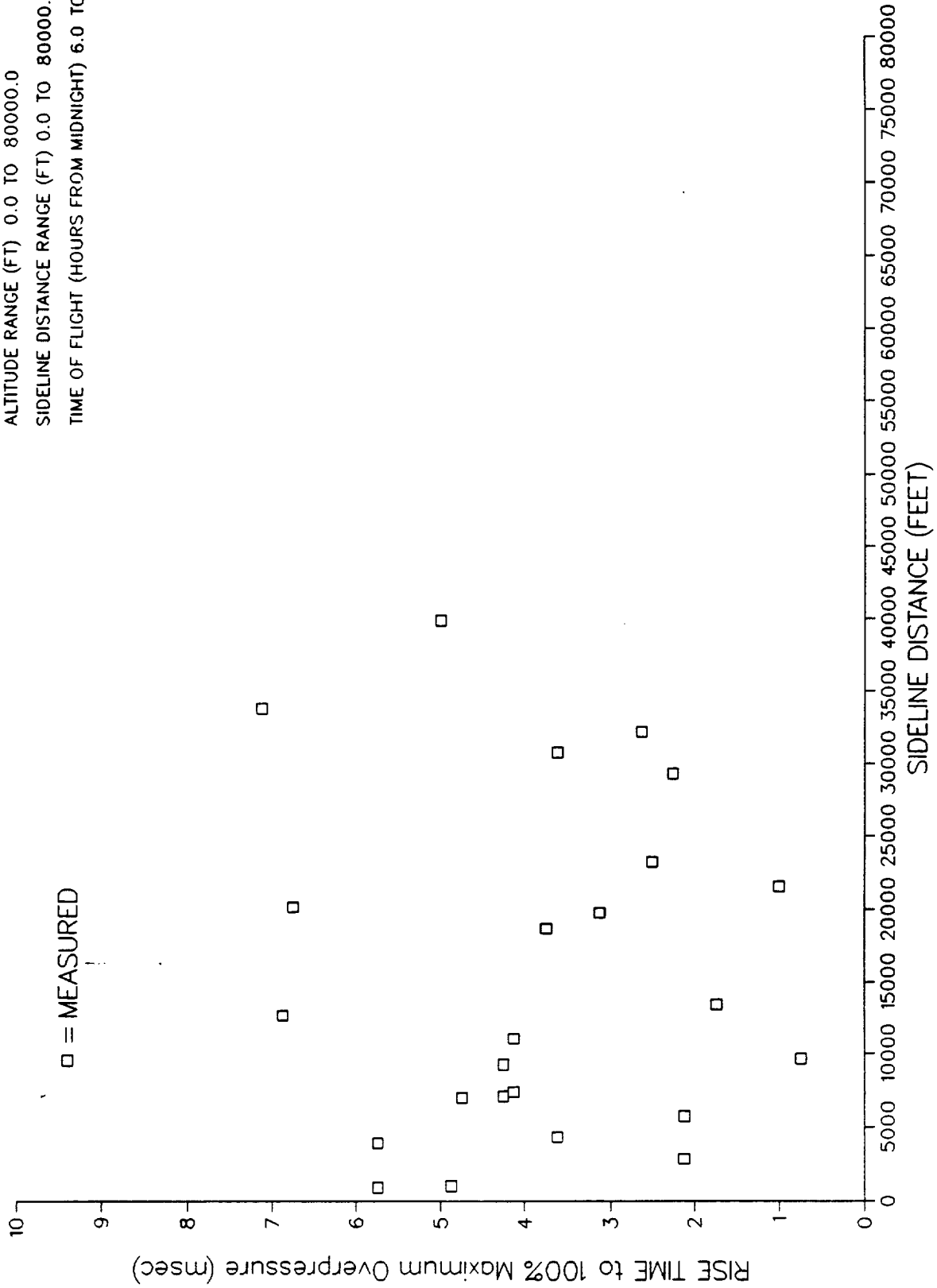
AIRCRAFT TYPE AT38

MACH NUMBER RANGE 0.00 TO 4.00

ALTITUDE RANGE (FT) 0.0 TO 80000.0

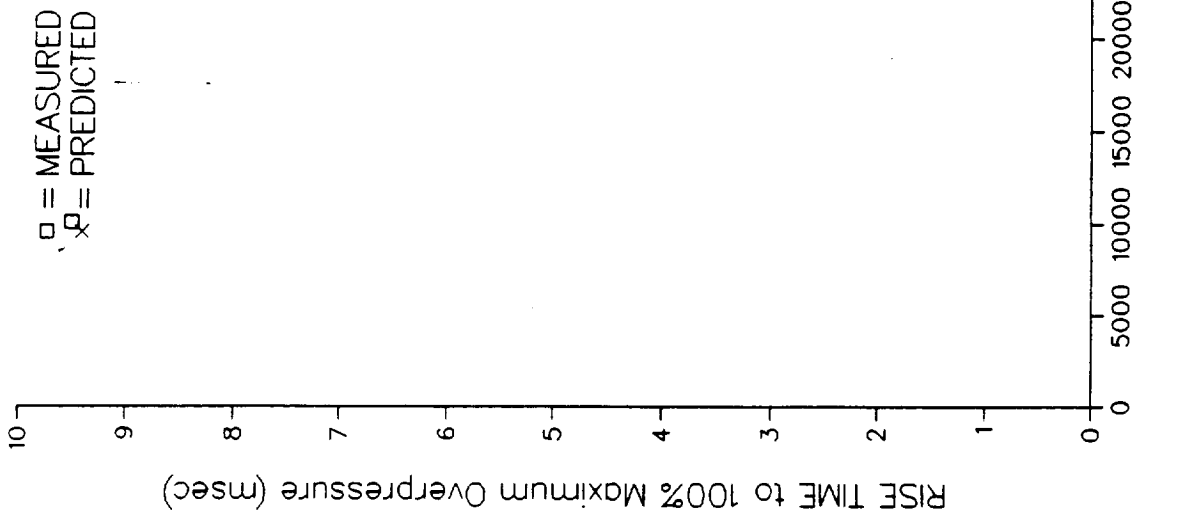
SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0

TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



BOOMFILE MEASURED DATA
VS
MDBOOM CALCULATED DATA

AIRCRAFT TYPE T38
MACH NUMBER RANGE 0.00 TO 4.00
ALTITUDE RANGE (FT) 0.0 TO 80000.0
SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



BOOMFILE MEASURED DATA
 VS
 MDBOOM CALCULATED DATA

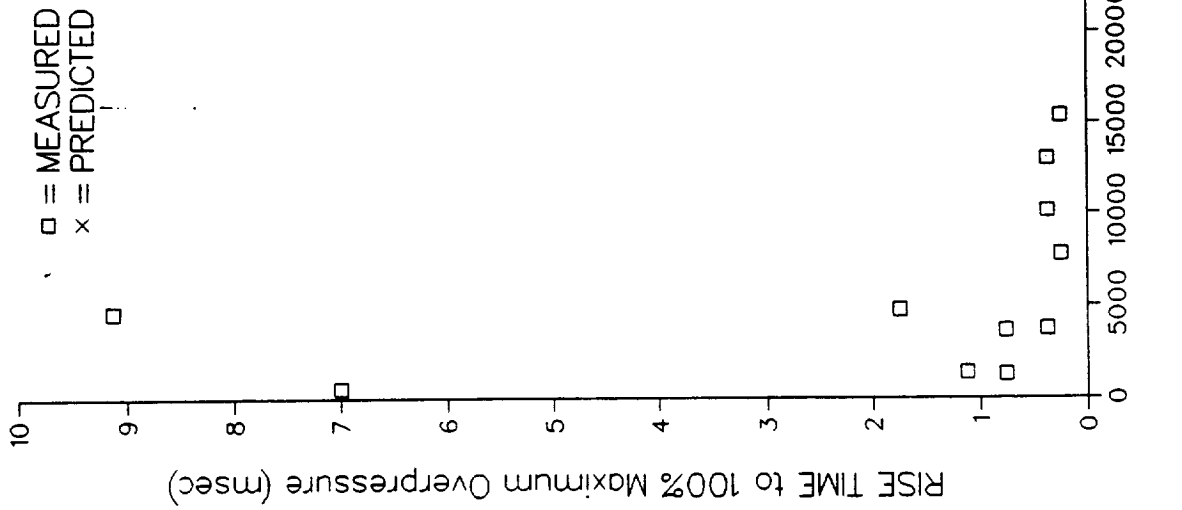
AIRCRAFT TYPE F4

MACH NUMBER RANGE 0.00 TO 4.00

ALTITUDE RANGE (FT) 0.0 TO 80000.0

SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0

TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



BOOMFILE MEASURED DATA
vs
MDBOOM CALCULATED DATA

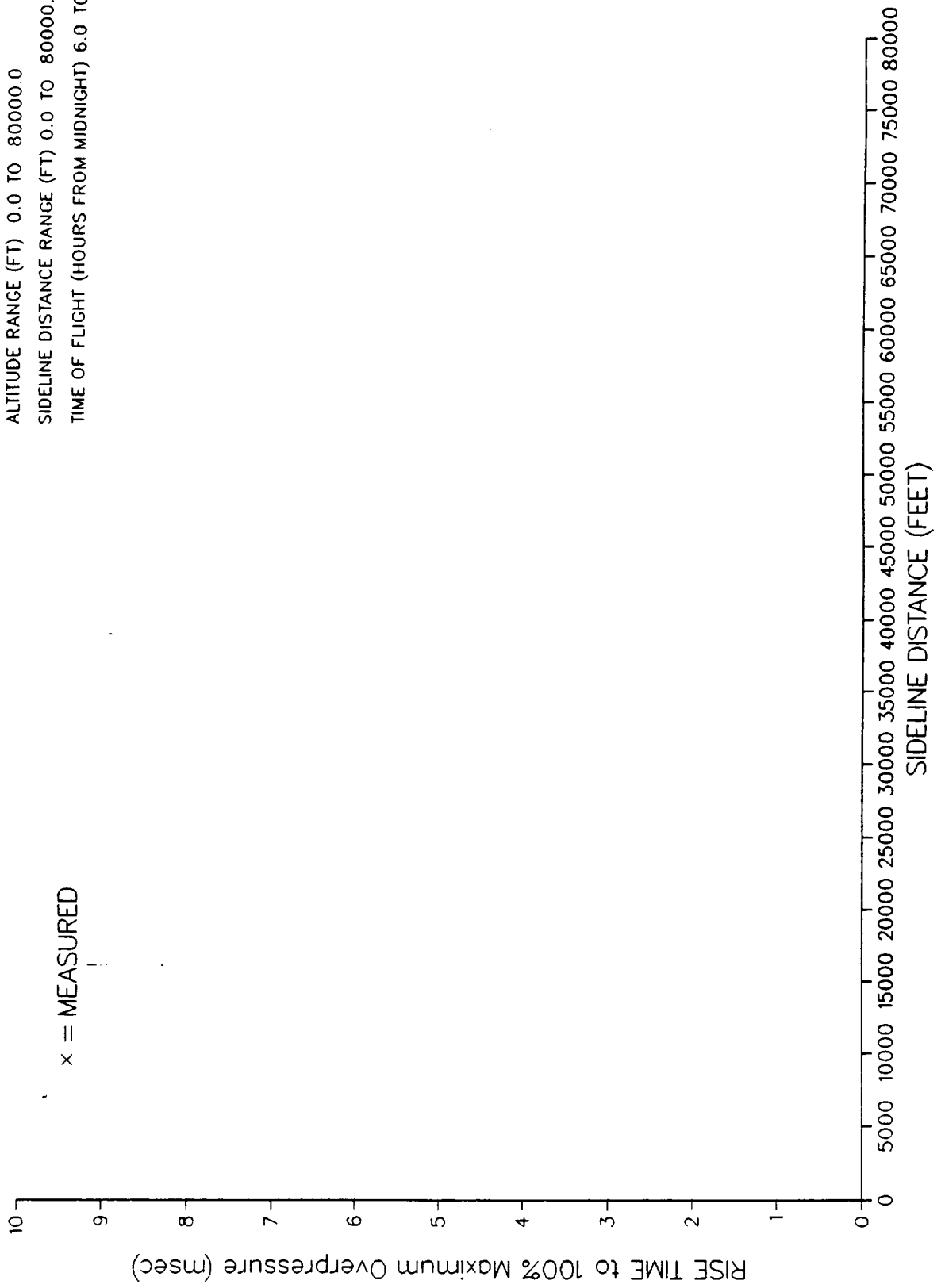
AIRCRAFT TYPE F111

MACH NUMBER RANGE 0.00 TO 4.00

ALTITUDE RANGE (FT) 0.0 TO 80000.0

SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0

TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



BOOMFILE MEASURED DATA
vs
MDBOOM CALCULATED DATA

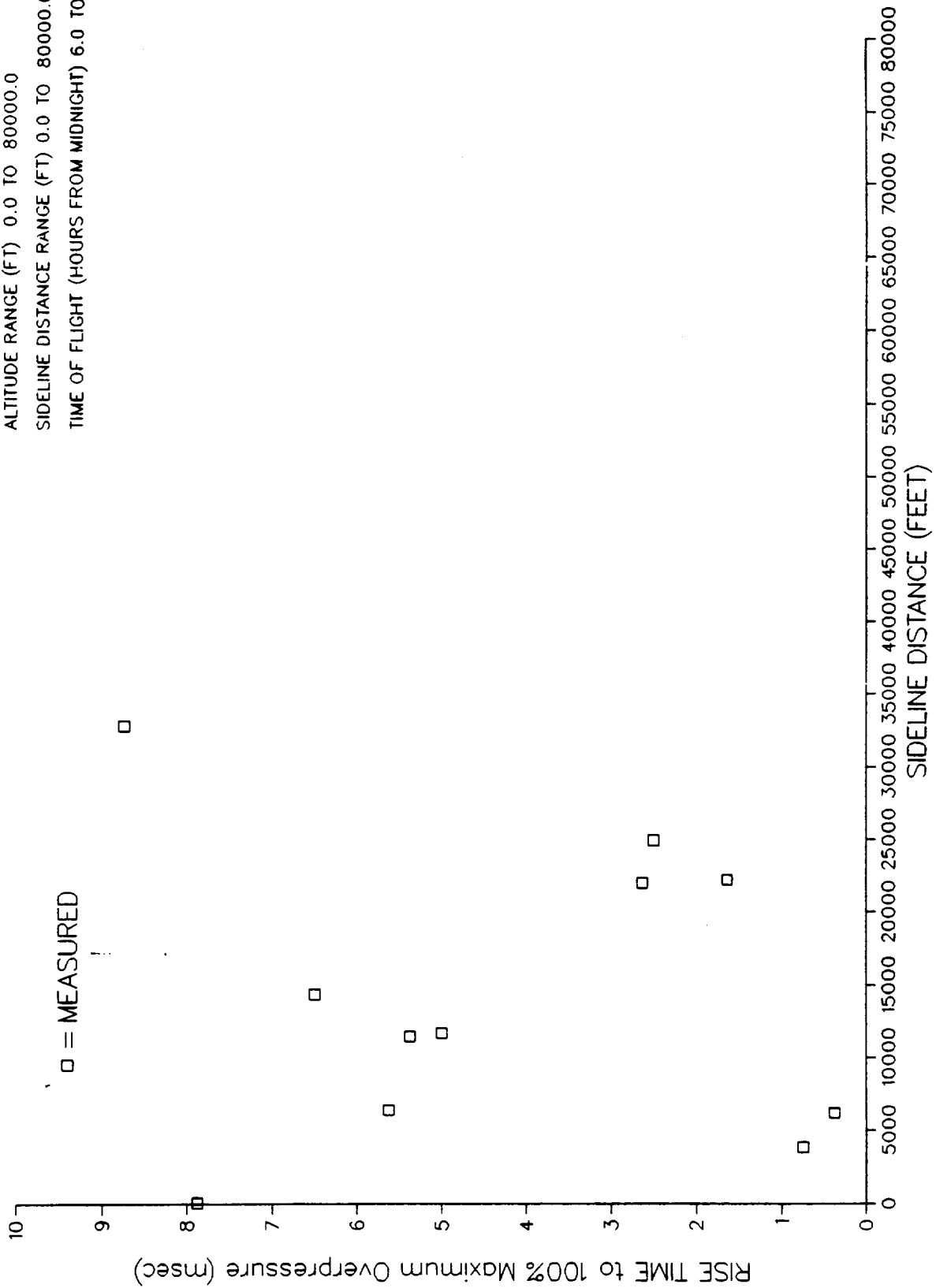
AIRCRAFT TYPE F111D

MACH NUMBER RANGE 0.00 TO 4.00

ALTITUDE RANGE (FT) 0.0 TO 80000.0

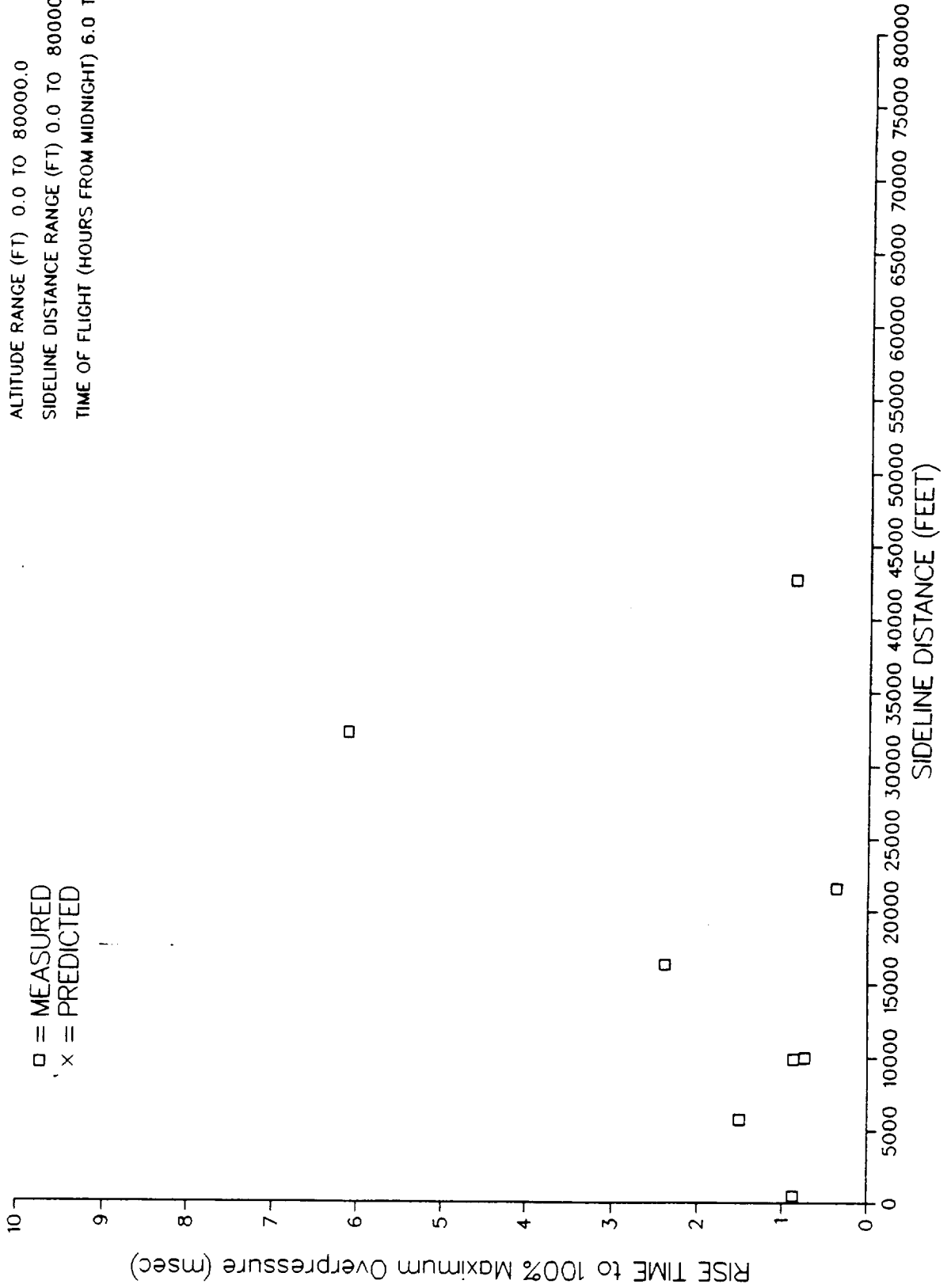
SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0

TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



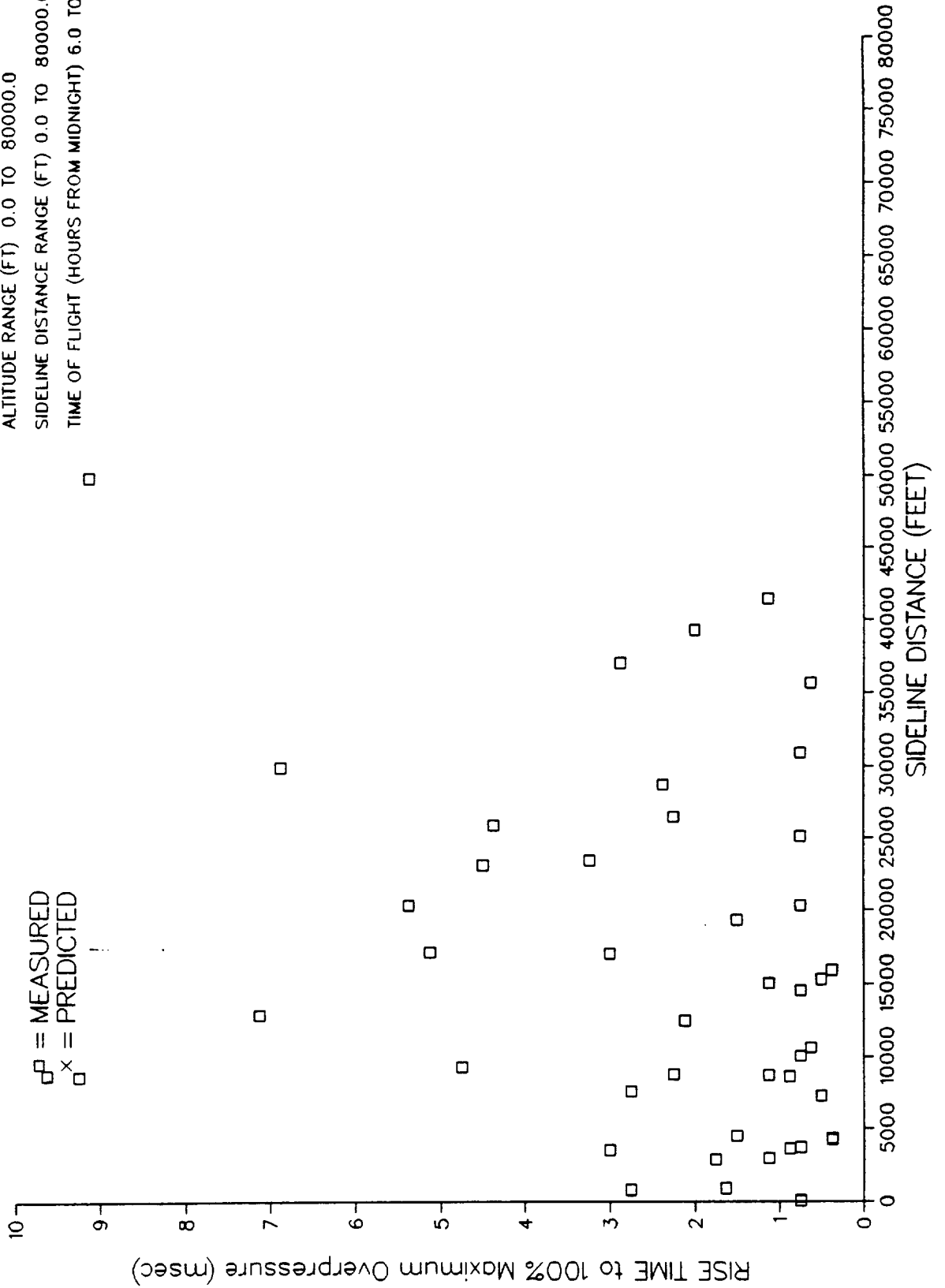
BOOMFILE MEASURED DATA
 VS
 MDROOM CALCULATED DATA

AIRCRAFT TYPE F14
 MACH NUMBER RANGE 0.00 TO 4.00
 ALTITUDE RANGE (FT) 0.0 TO 80000.0
 SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
 TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



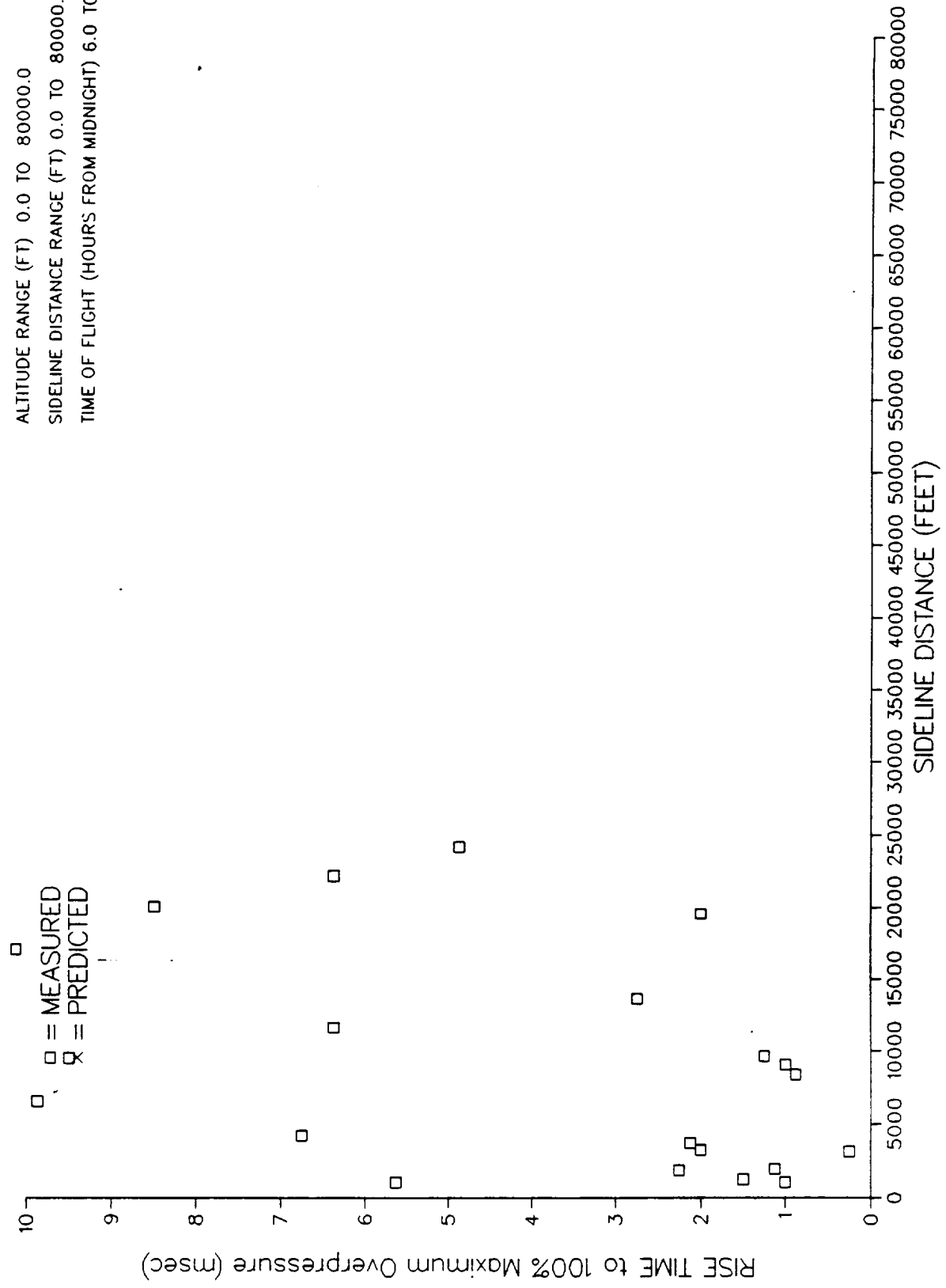
BOOMFILE MEASURED DATA
 VS
 MDBOOM CALCULATED DATA

AIRCRAFT TYPE F15
 MACH NUMBER RANGE 0.00 TO 4.00
 ALTITUDE RANGE (FT) 0.0 TO 80000.0
 SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
 TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



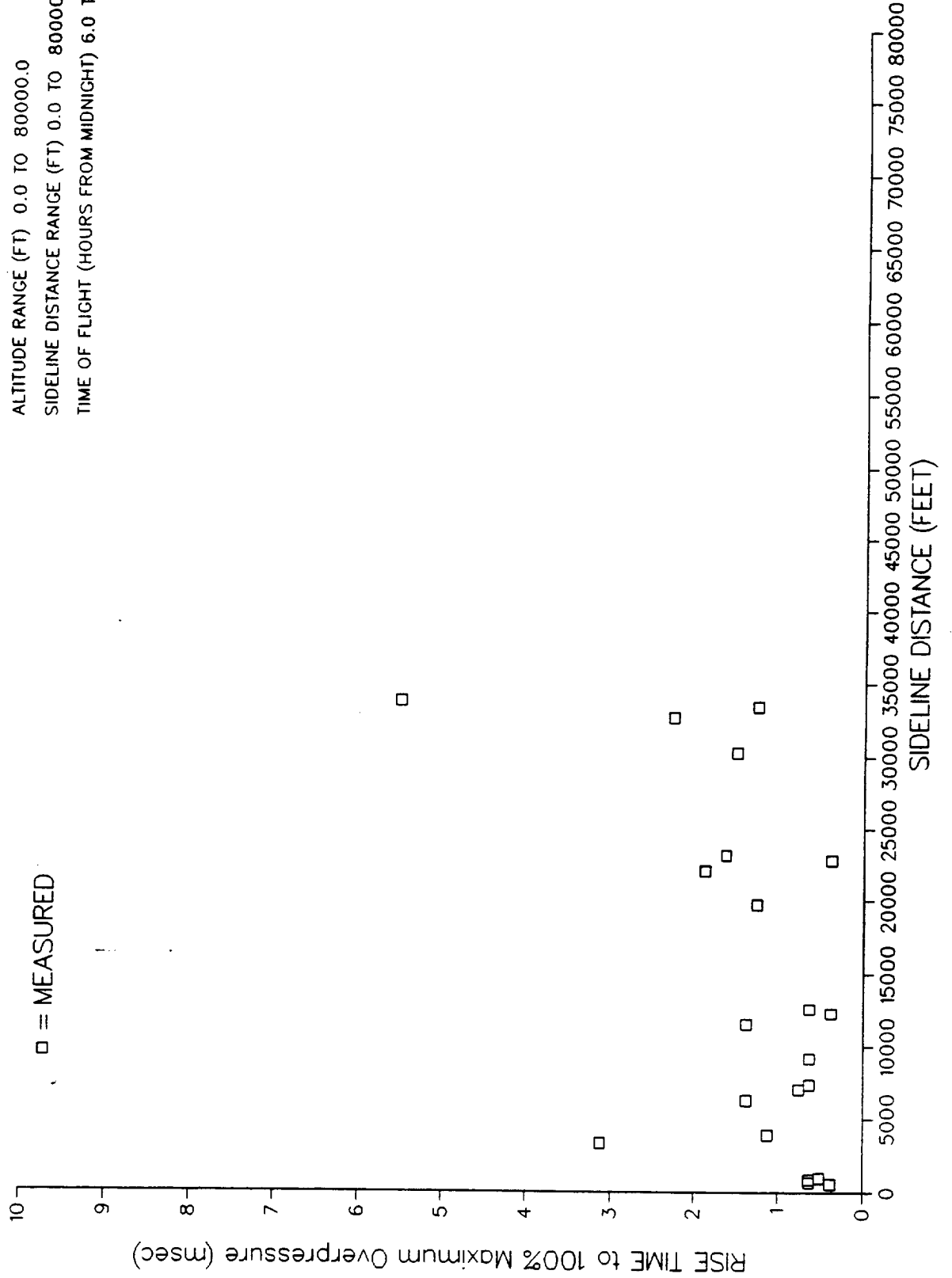
BOOMFILE MEASURED DATA
 VS
 MDBOOM CALCULATED DATA

AIRCRAFT TYPE F16
 MACH NUMBER RANGE 0.00 TO 4.00
 ALTITUDE RANGE (FT) 0.0 TO 80000.0
 SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
 TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



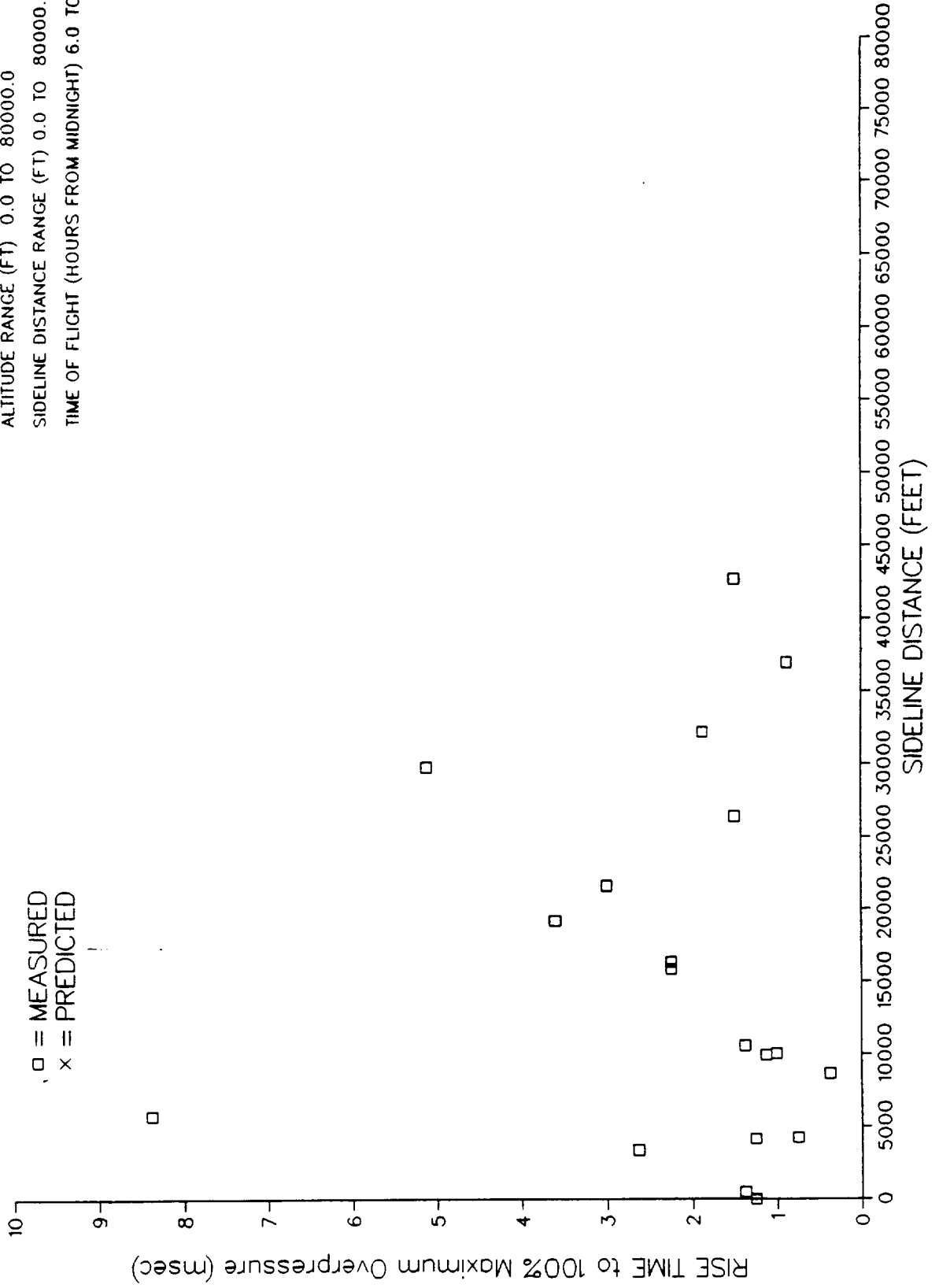
BOOMFILE MEASURED DATA

AIRCRAFT TYPE F18
MACH NUMBER RANGE 0.00 TO 4.00
ALTITUDE RANGE (FT) 0.0 TO 80000.0
SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



BOOMFILE MEASURED DATA
 VS
 MDBOOM CALCULATED DATA

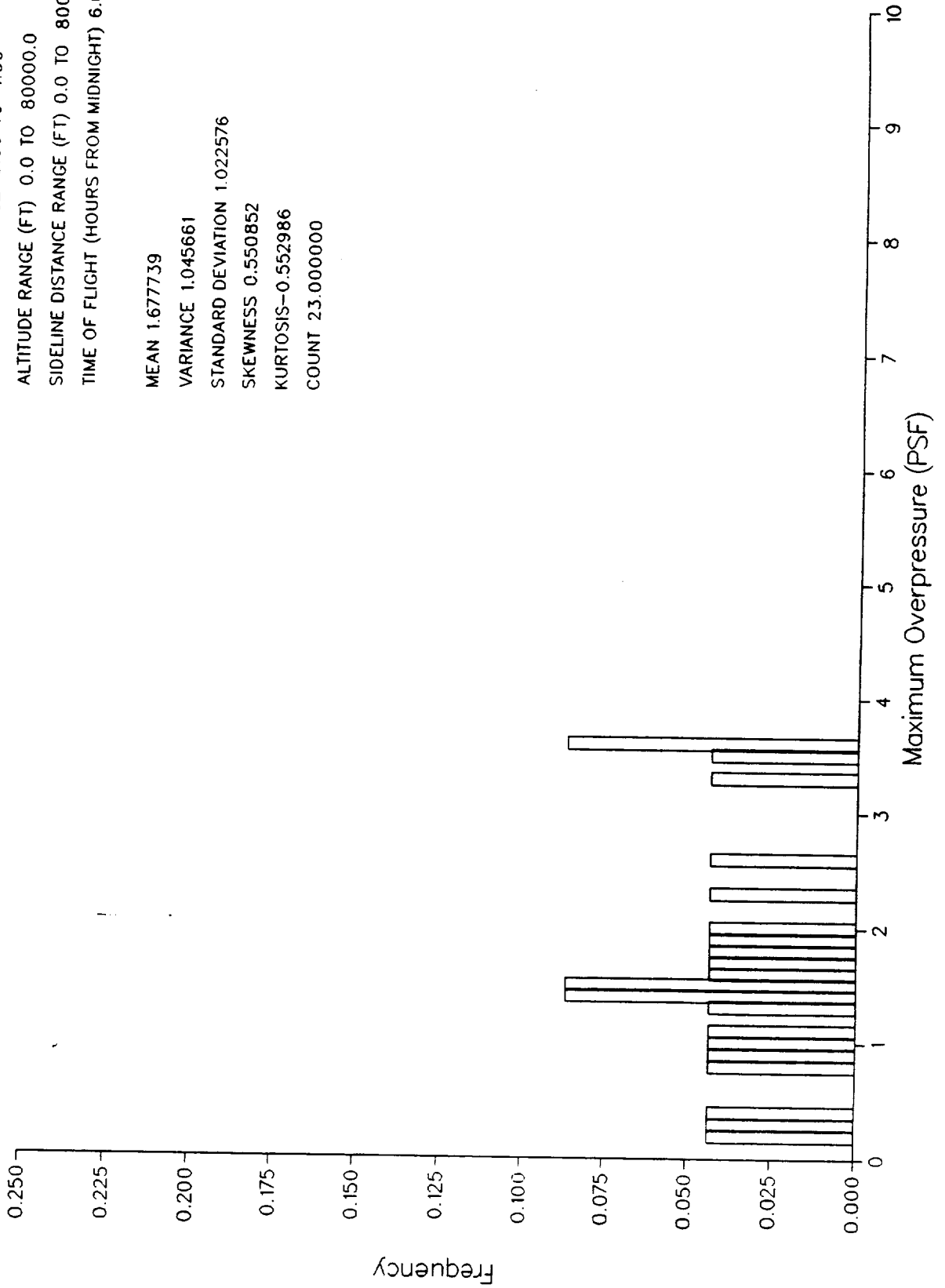
AIRCRAFT TYPE SR71
 MACH NUMBER RANGE 0.00 TO 4.00
 ALTITUDE RANGE (FT) 0.0 TO 80000.0
 SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
 TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



BOOMFILE MEASURED DATA

AIRCRAFT TYPE F15
MACH NUMBER RANGE 0.00 TO 4.00
ALTITUDE RANGE (FT) 0.0 TO 80000.0
SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 9.0

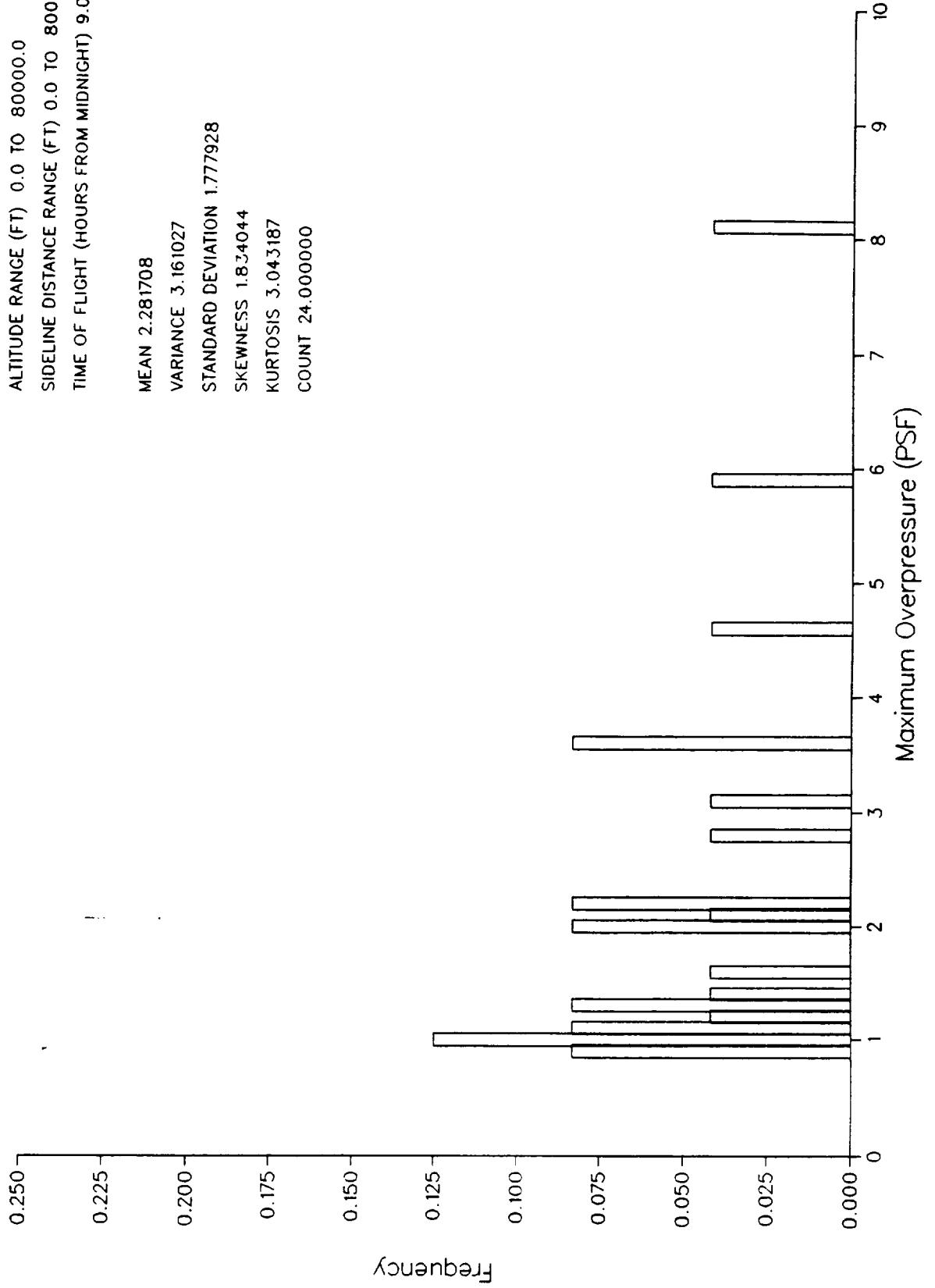
MEAN 1.677739
VARIANCE 1.045661
STANDARD DEVIATION 1.022576
SKEWNESS 0.550852
KURTOSIS-0.552986
COUNT 23.000000



BOOMFILE MEASURED DATA

AIRCRAFT TYPE F15
MACH NUMBER RANGE 0.00 TO 4.00
ALTITUDE RANGE (FT) 0.0 TO 80000.0
SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
TIME OF FLIGHT (HOURS FROM MIDNIGHT) 9.0 TO 17.0

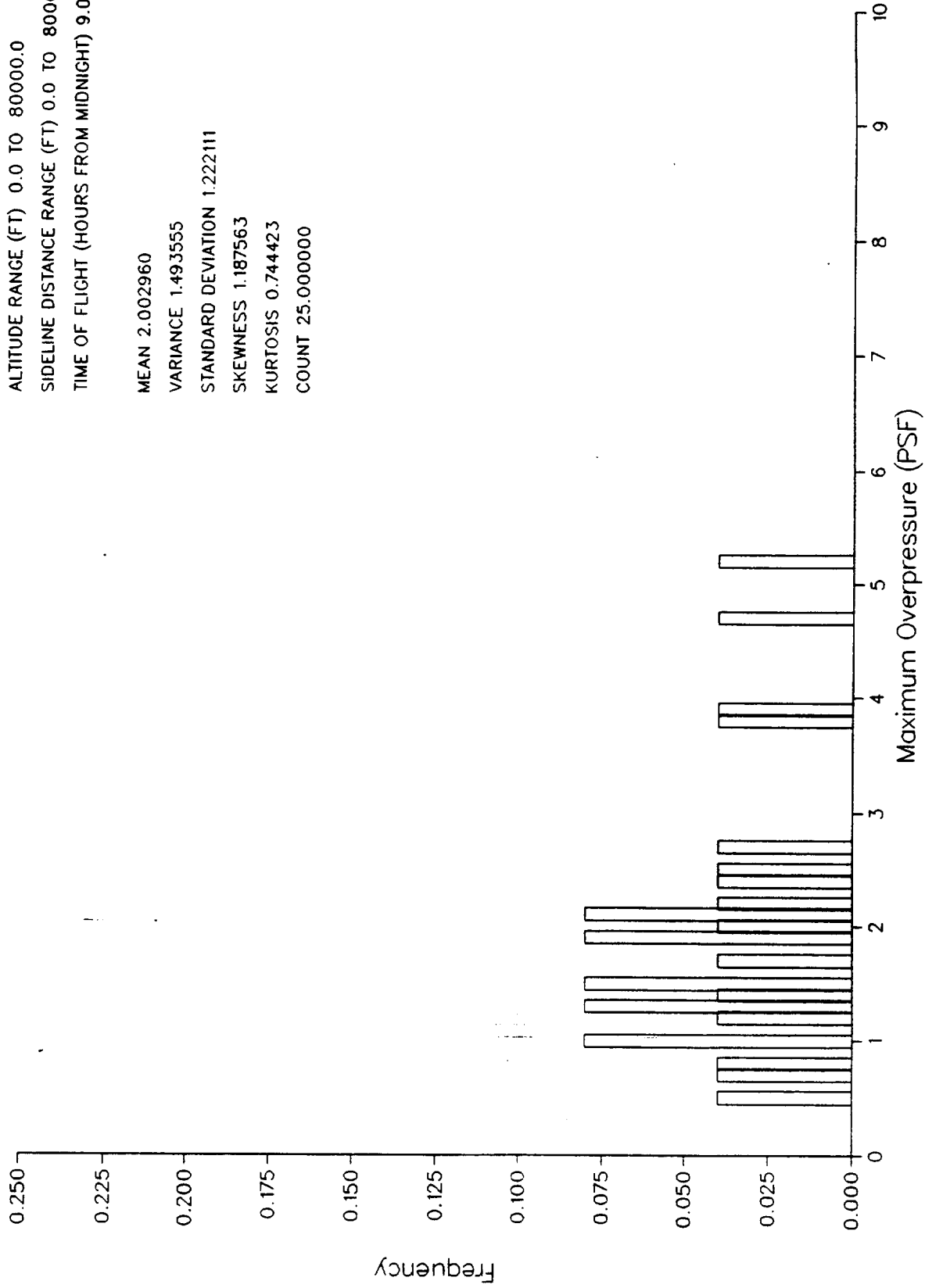
MEAN 2.281708
VARIANCE 3.161027
STANDARD DEVIATION 1.777928
SKEWNESS 1.834044
KURTOSIS 3.043187
COUNT 24.000000



BOOMFILE MEASURED DATA

AIRCRAFT TYPE F16
MACH NUMBER RANGE 0.00 TO 4.00
ALTITUDE RANGE (FT) 0.0 TO 80000.0
SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
TIME OF FLIGHT (HOURS FROM MIDNIGHT) 9.0 TO 17.0

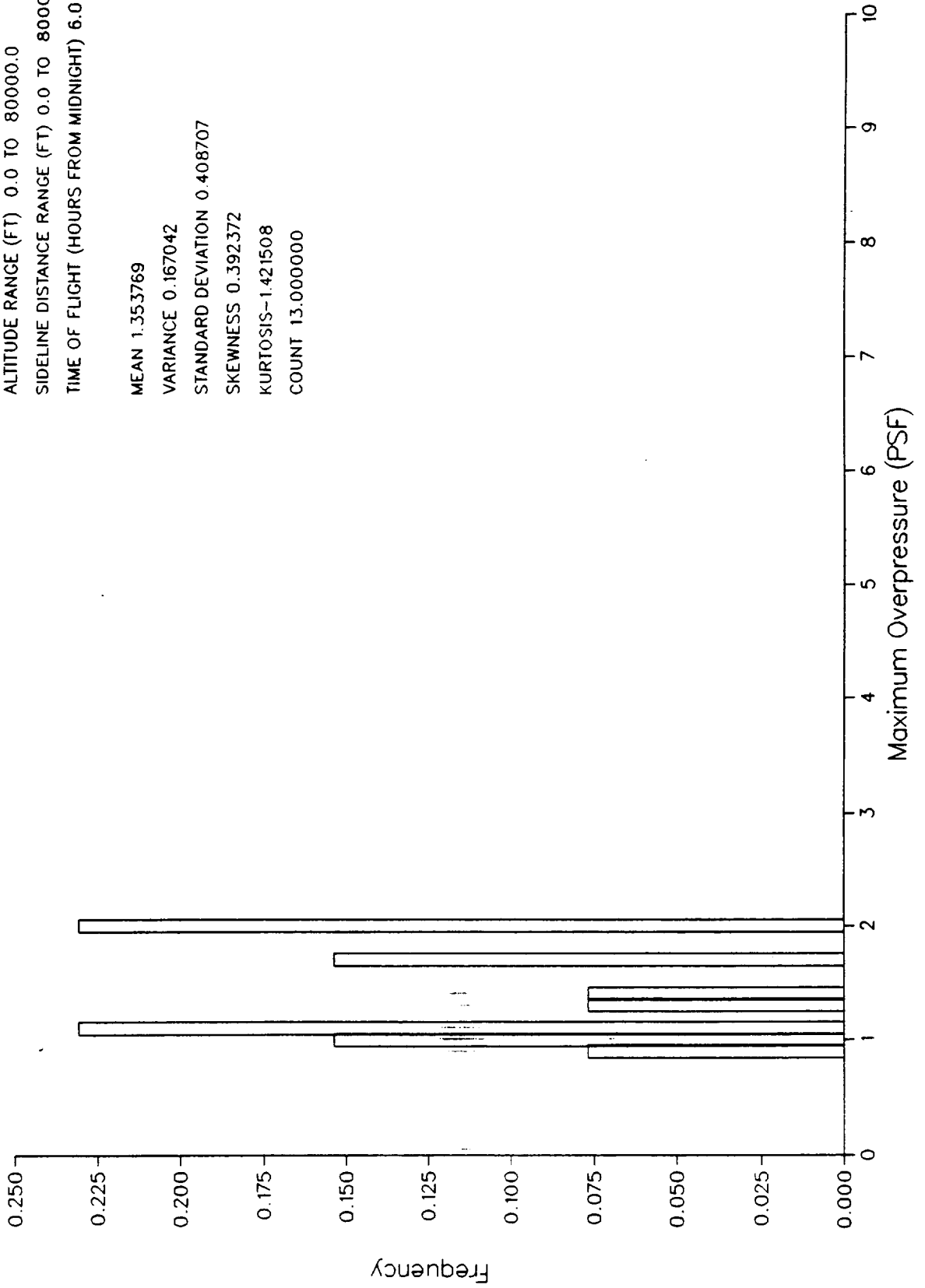
MEAN 2.002960
VARIANCE 1.493555
STANDARD DEVIATION 1.222111
SKEWNESS 1.187563
KURTOSIS 0.744423
COUNT 25.000000



BOOMFILE MEASURED DATA

AIRCRAFT TYPE F18
MACH NUMBER RANGE 0.00 TO 4.00
ALTITUDE RANGE (FT) 0.0 TO 80000.0
SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 9.0

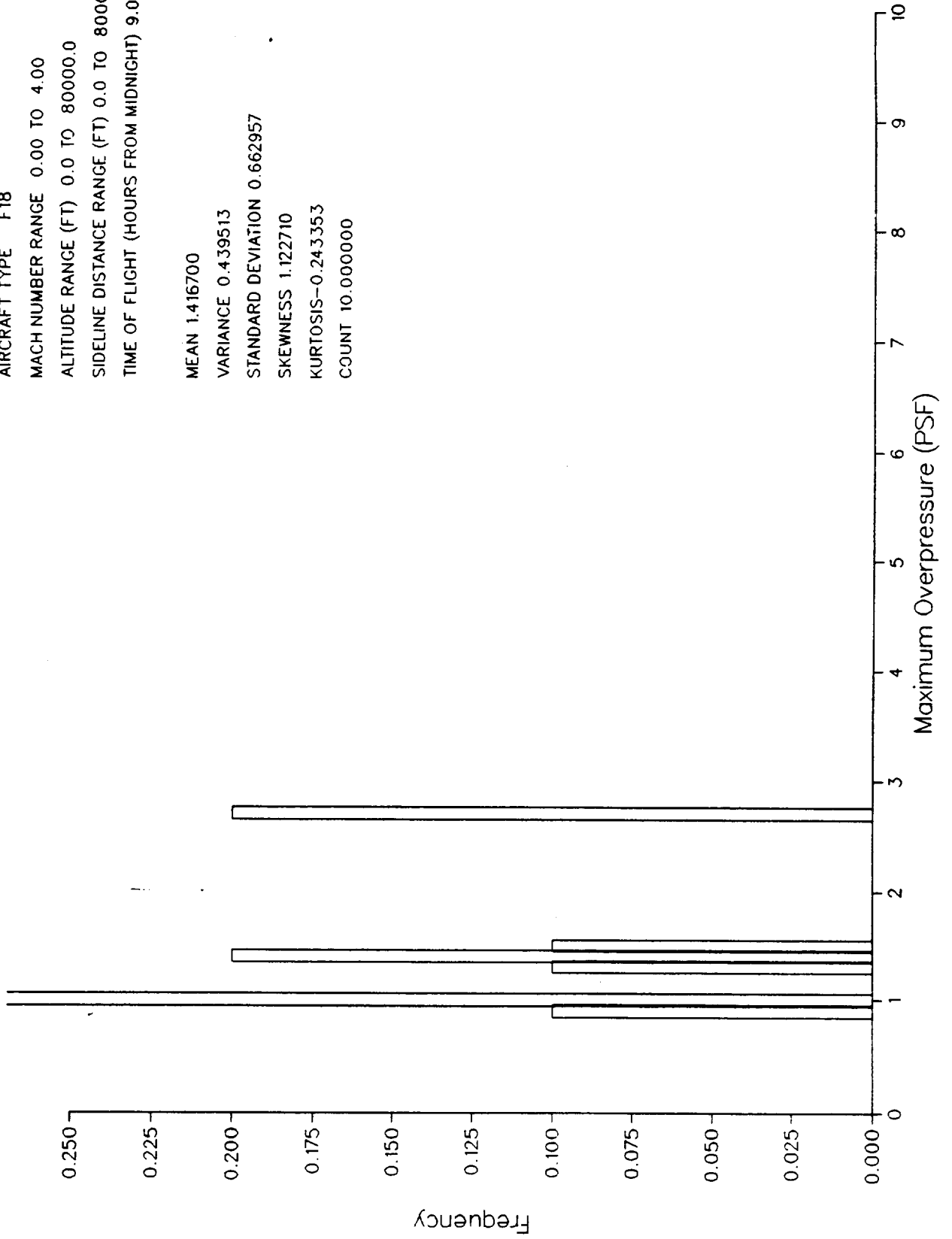
MEAN 1.353769
VARIANCE 0.167042
STANDARD DEVIATION 0.408707
SKEWNESS 0.392372
KURTOSIS -1.421508
COUNT 13.000000



BOOMFILE MEASURED DATA

AIRCRAFT TYPE F18
MACH NUMBER RANGE 0.00 TO 4.00
ALTITUDE RANGE (FT) 0.0 TO 80000.0
SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
TIME OF FLIGHT (HOURS FROM MIDNIGHT) 9.0 TO 17.0

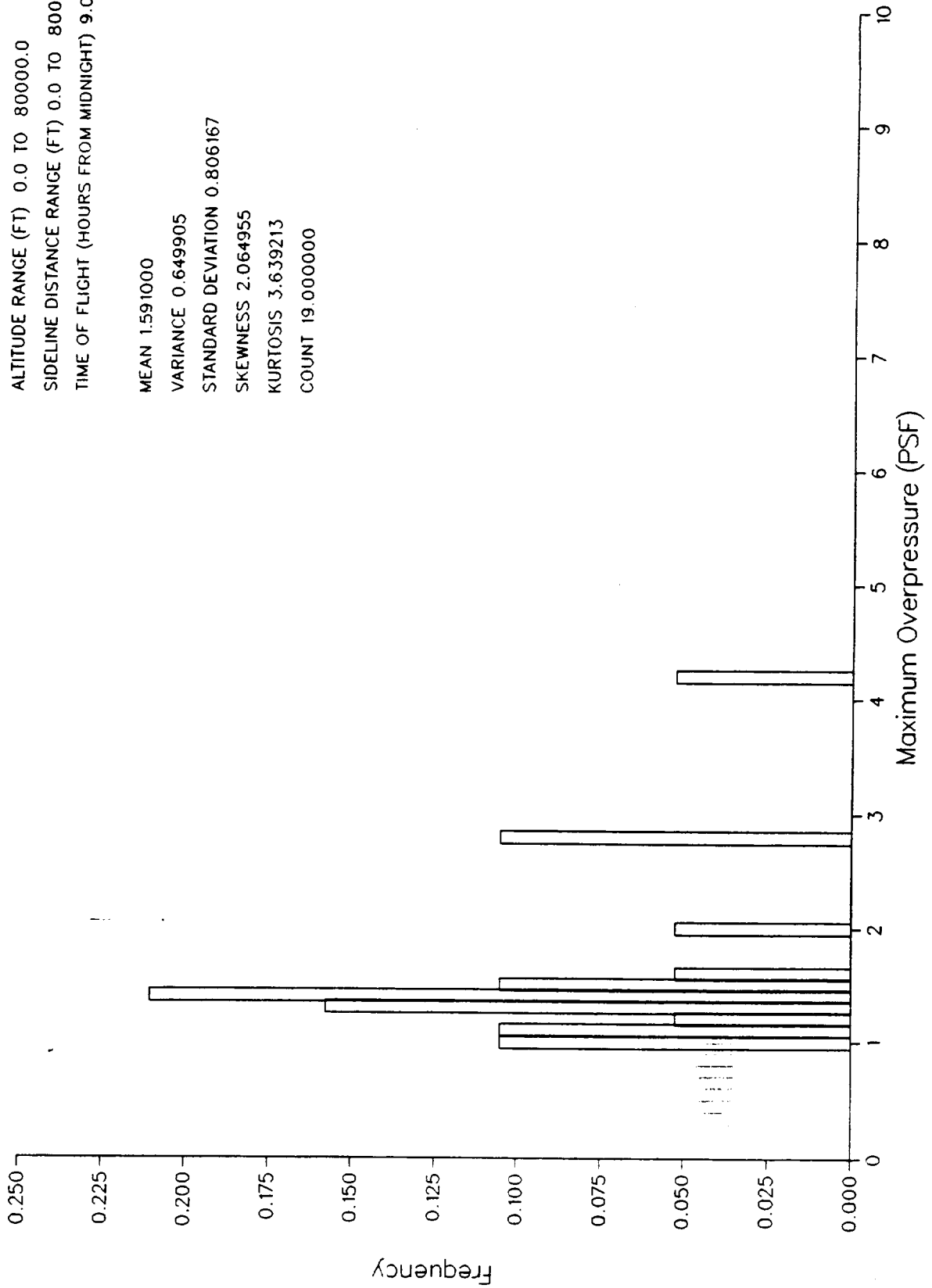
MEAN 1.416700
VARIANCE 0.439513
STANDARD DEVIATION 0.662957
SKEWNESS 1.122710
KURTOSIS -0.243353
COUNT 10.000000



BOOMFILE MEASURED DATA

AIRCRAFT TYPE SR71
MACH NUMBER RANGE 0.00 TO 4.00
ALTITUDE RANGE (FT) 0.0 TO 80000.0
SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
TIME OF FLIGHT (HOURS FROM MIDNIGHT) 9.0 TO 17.0

MEAN 1.591000
VARIANCE 0.649905
STANDARD DEVIATION 0.806167
SKEWNESS 2.064955
KURTOSIS 3.639213
COUNT 19.000000

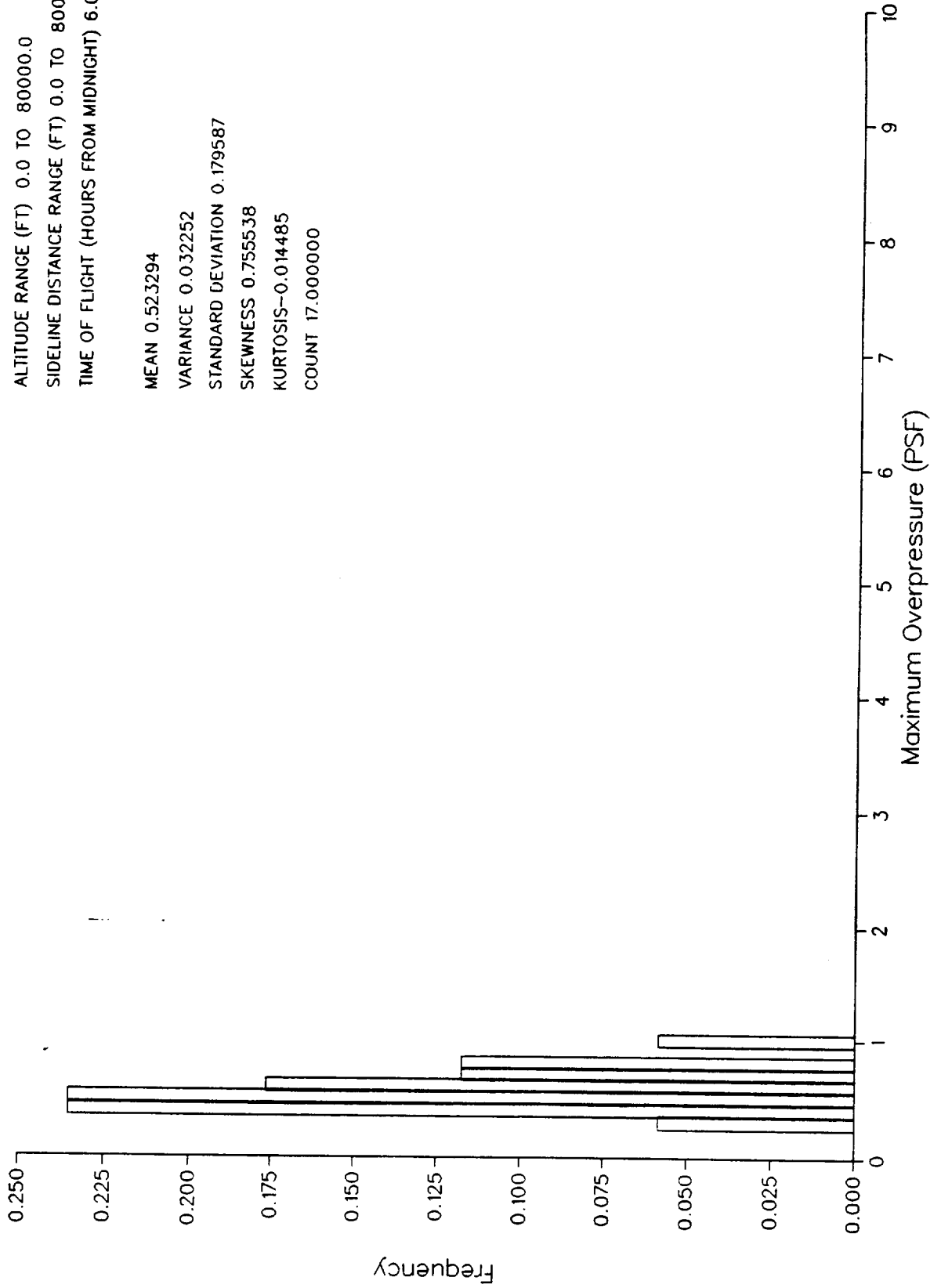


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BOOMFILE MEASURED DATA

AIRCRAFT TYPE AT38
MACH NUMBER RANGE 0.00 TO 4.00
ALTITUDE RANGE (FT) 0.0 TO 80000.0
SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 9.0

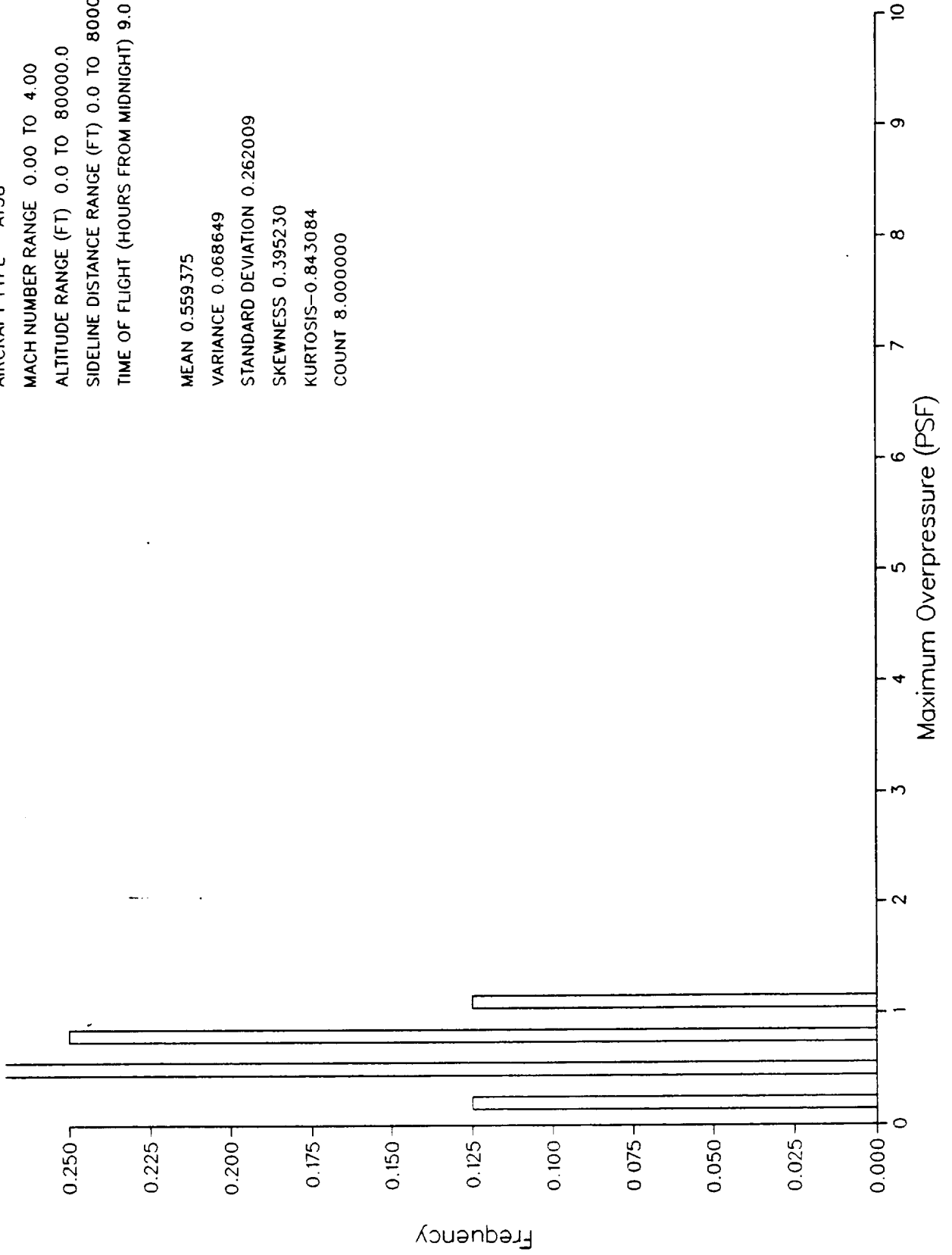
MEAN 0.523294
VARIANCE 0.032252
STANDARD DEVIATION 0.179587
SKEWNESS 0.755538
KURTOSIS-0.014485
COUNT 17.000000



BOOMFILE MEASURED DATA

AIRCRAFT TYPE AT38
MACH NUMBER RANGE 0.00 TO 4.00
ALTITUDE RANGE (FT) 0.0 TO 80000.0
SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
TIME OF FLIGHT (HOURS FROM MIDNIGHT) 9.0 TO 17.0

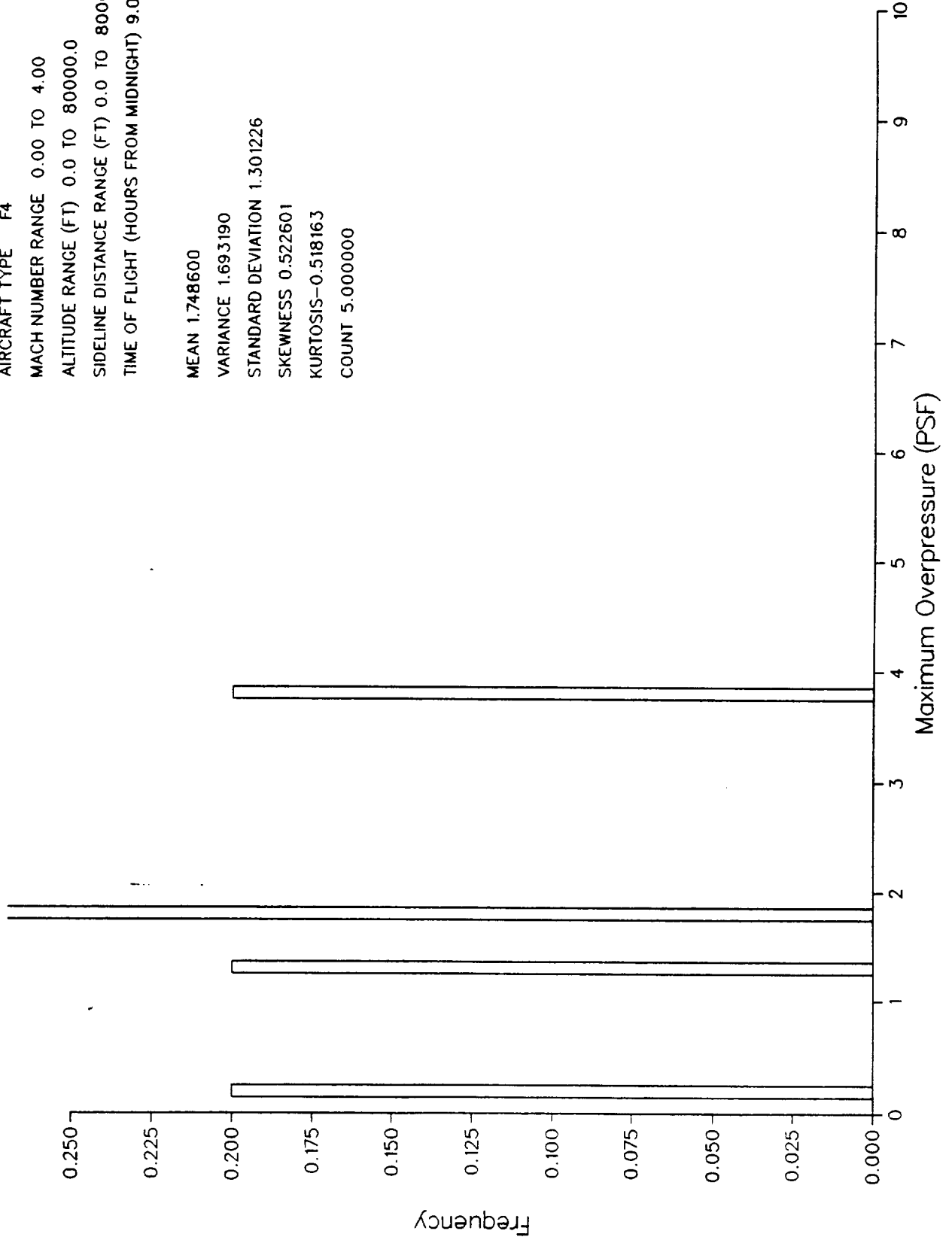
MEAN 0.559375
VARIANCE 0.068649
STANDARD DEVIATION 0.262009
SKEWNESS 0.395230
KURTOSIS-0.843084
COUNT 8.000000



BOOMFILE MEASURED DATA

AIRCRAFT TYPE F4
MACH NUMBER RANGE 0.00 TO 4.00
ALTITUDE RANGE (FT) 0.0 TO 80000.0
SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
TIME OF FLIGHT (HOURS FROM MIDNIGHT) 9.0 TO 17.0

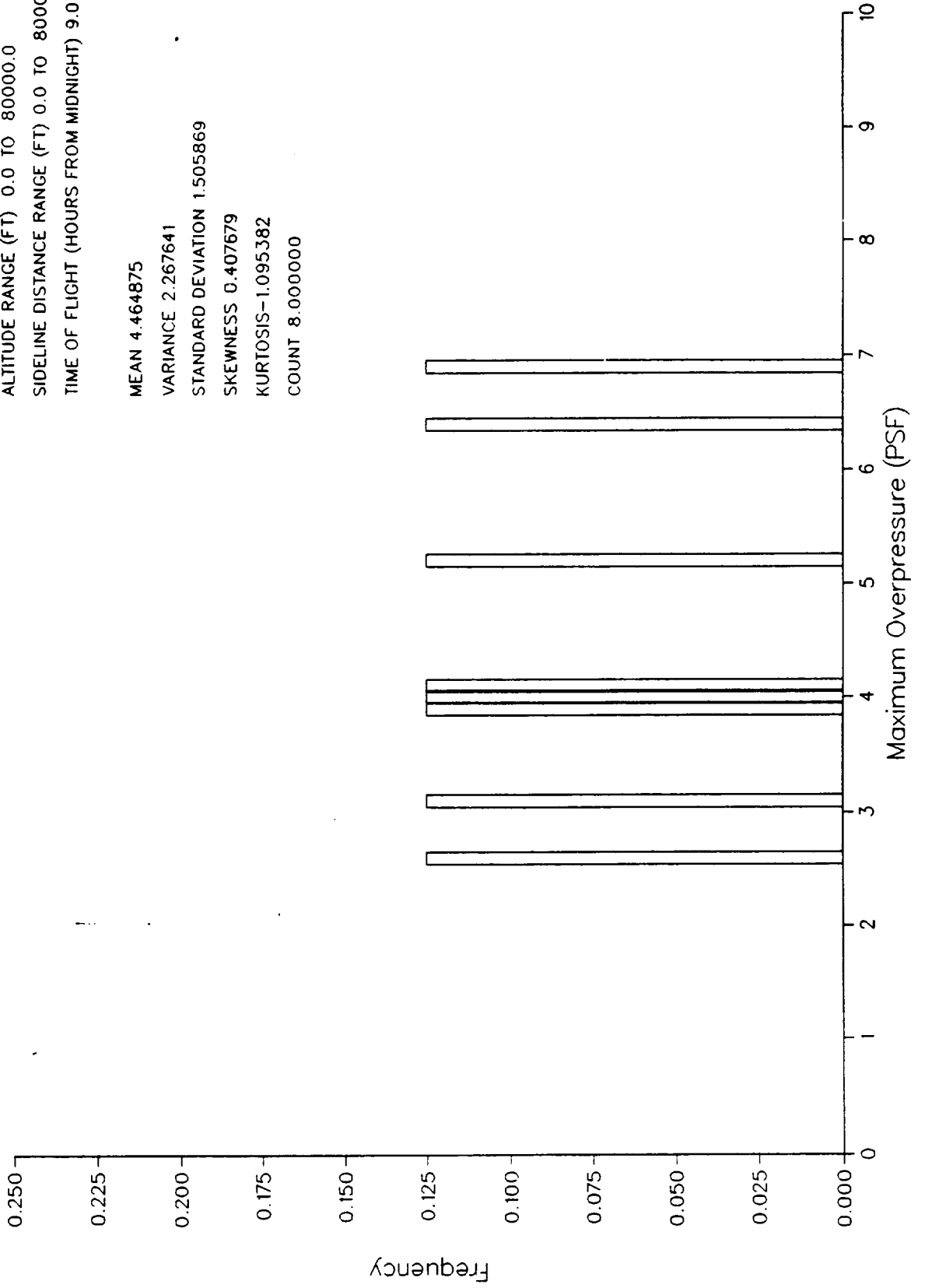
MEAN 1.748600
VARIANCE 1.693190
STANDARD DEVIATION 1.301226
SKEWNESS 0.522601
KURTOSIS-0.518163
COUNT 5.000000



BOOMFILE MEASURED DATA

AIRCRAFT TYPE F14
MACH NUMBER RANGE 0.00 TO 4.00
ALTITUDE RANGE (FT) 0.0 TO 80000.0
SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
TIME OF FLIGHT (HOURS FROM MIDNIGHT) 9.0 TO 17.0

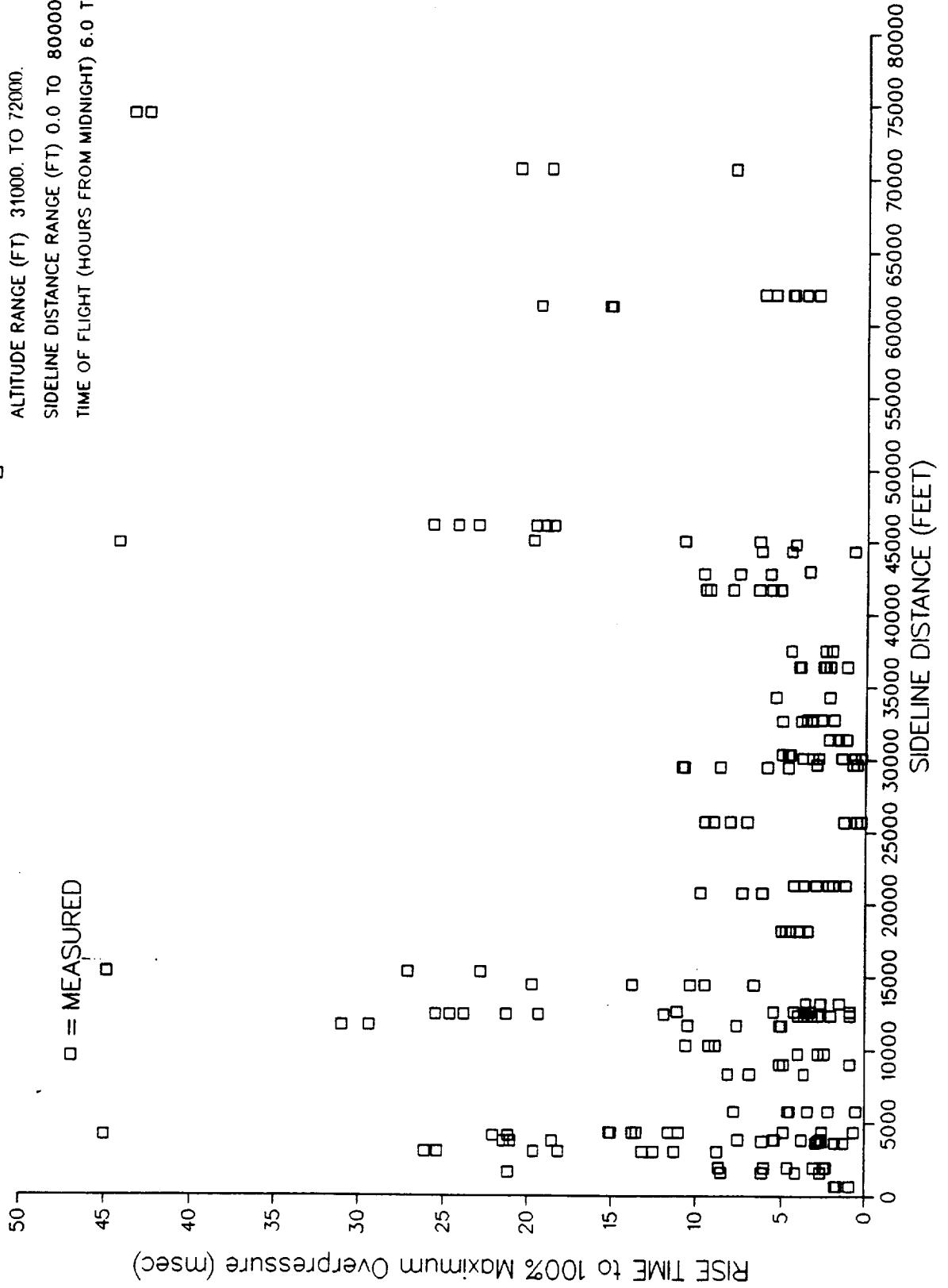
MEAN 4.464875
VARIANCE 2.267641
STANDARD DEVIATION 1.505869
SKEWNESS 0.407679
KURTOSIS -1.095382
COUNT 8.000000



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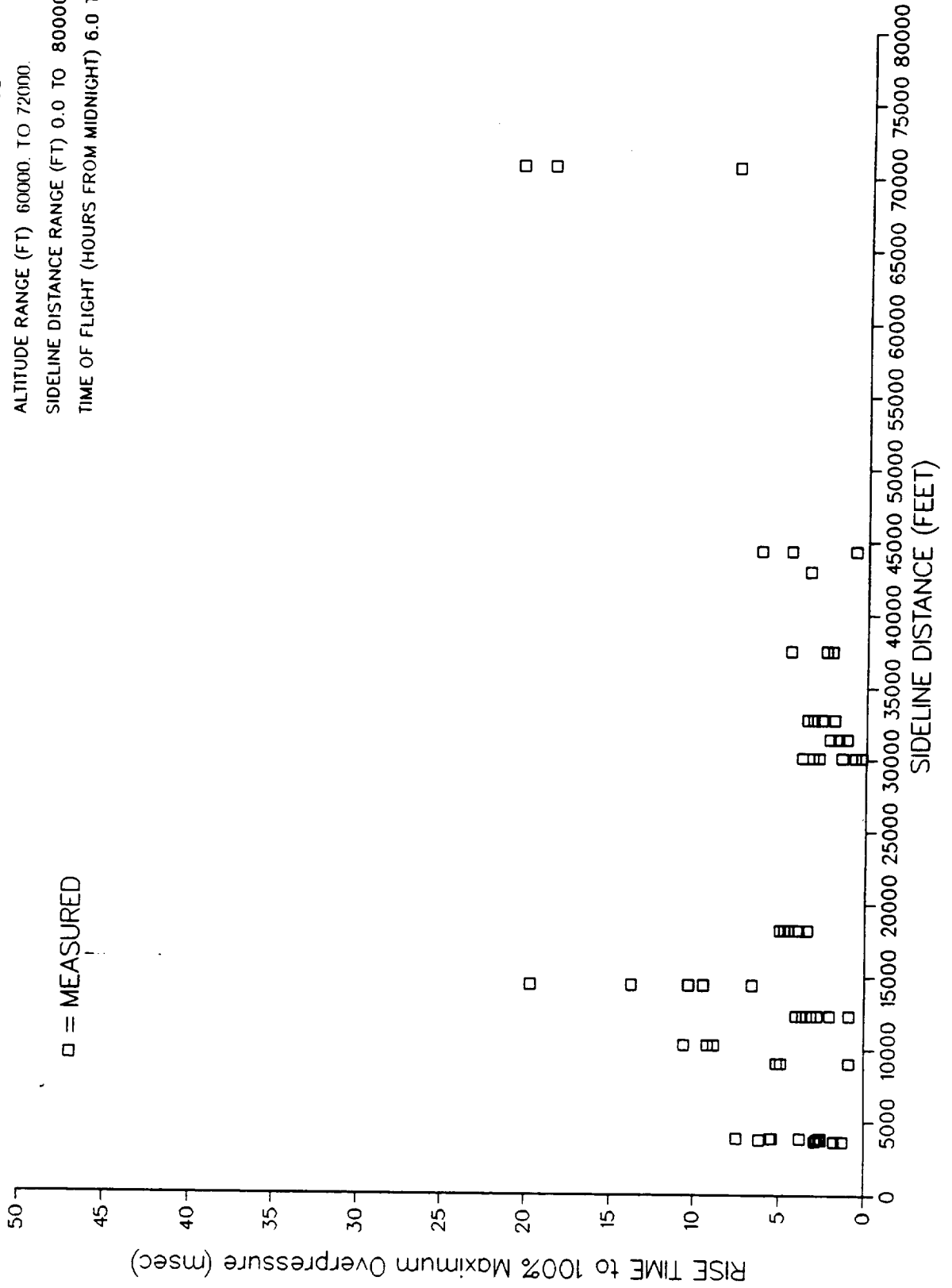
XB70 MEASURED DATA
vs
MDBOOM CALCULATED DATA

AIRCRAFT TYPE ALL
 MACH NUMBER RANGE 1.00 TO 3.00
 ALTITUDE RANGE (FT) 31000. TO 72000.
 SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
 TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



XB70 MEASURED DATA
VS
MDBOOM CALCULATED DATA

AIRCRAFT TYPE ALL
MACH NUMBER RANGE 2.05 TO 2.92
ALTITUDE RANGE (FT) 60000. TO 72000.
SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0

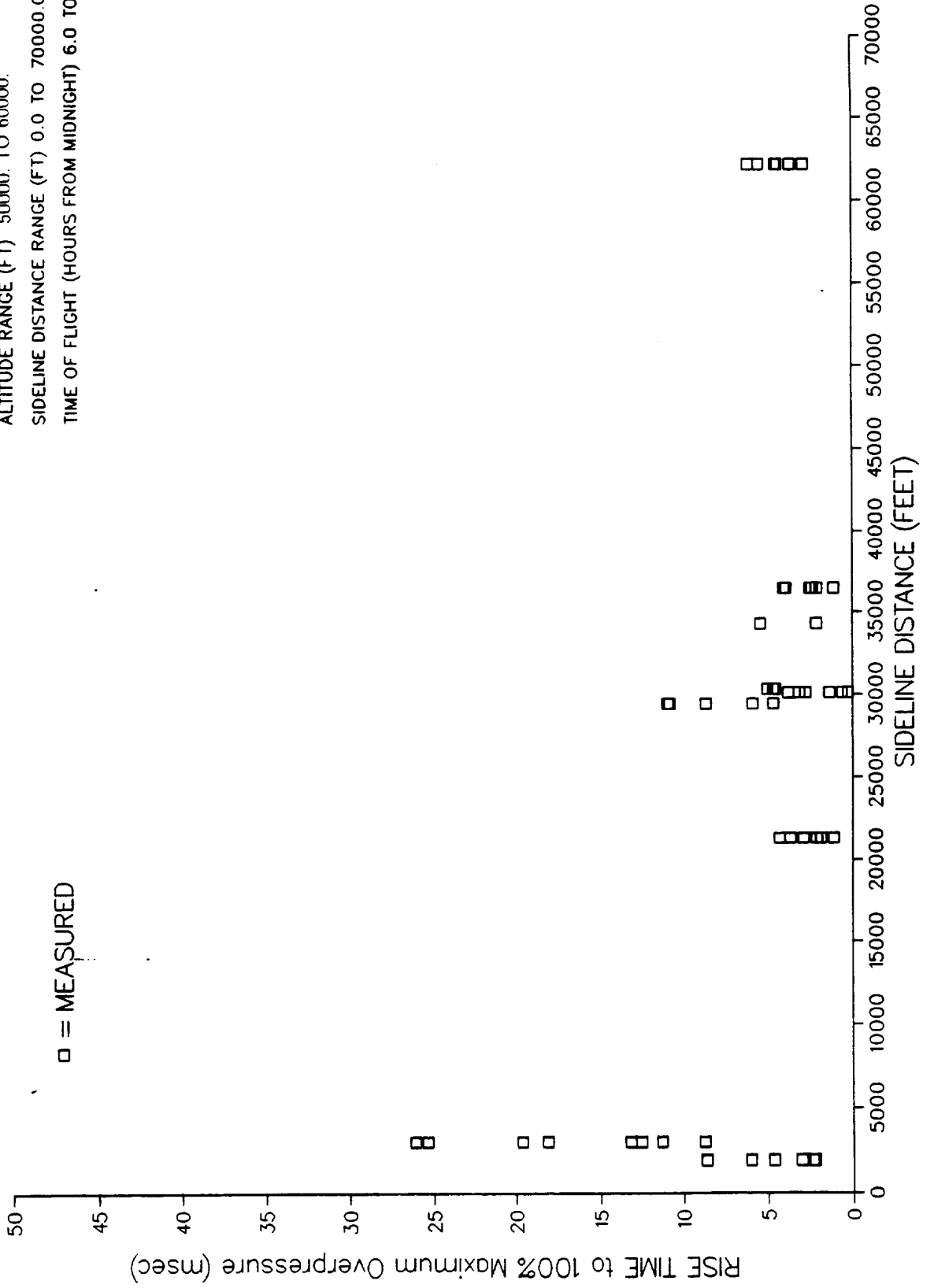


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C-2

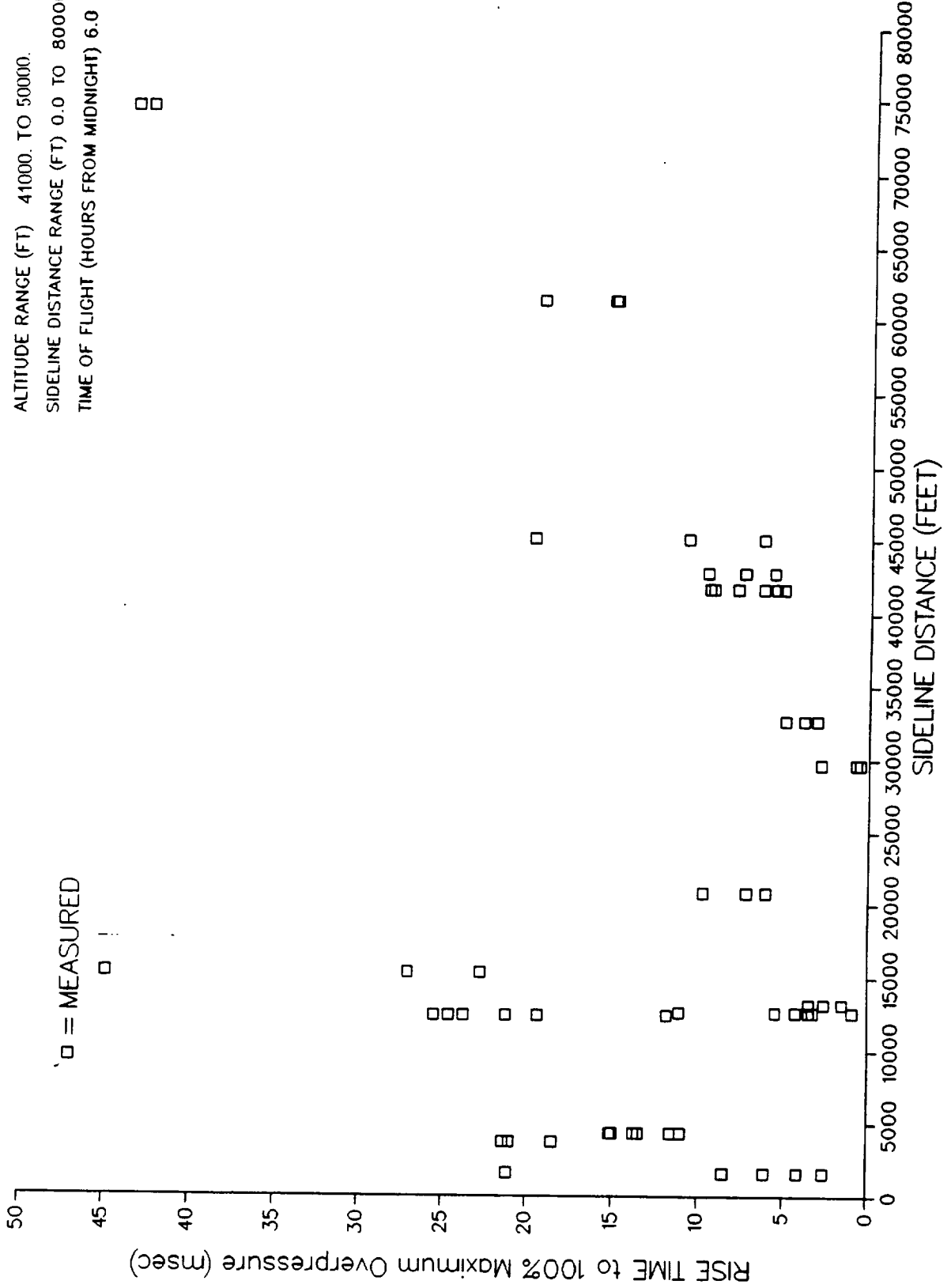
XB70 MEASURED DATA
VS
MDBOOM CALCULATED DATA

AIRCRAFT TYPE ALL
 MACH NUMBER RANGE 1.55 TO 2.31
 ALTITUDE RANGE (FT) 50000. TO 60000.
 SIDELINE DISTANCE RANGE (FT) 0.0 TO 70000.0
 TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



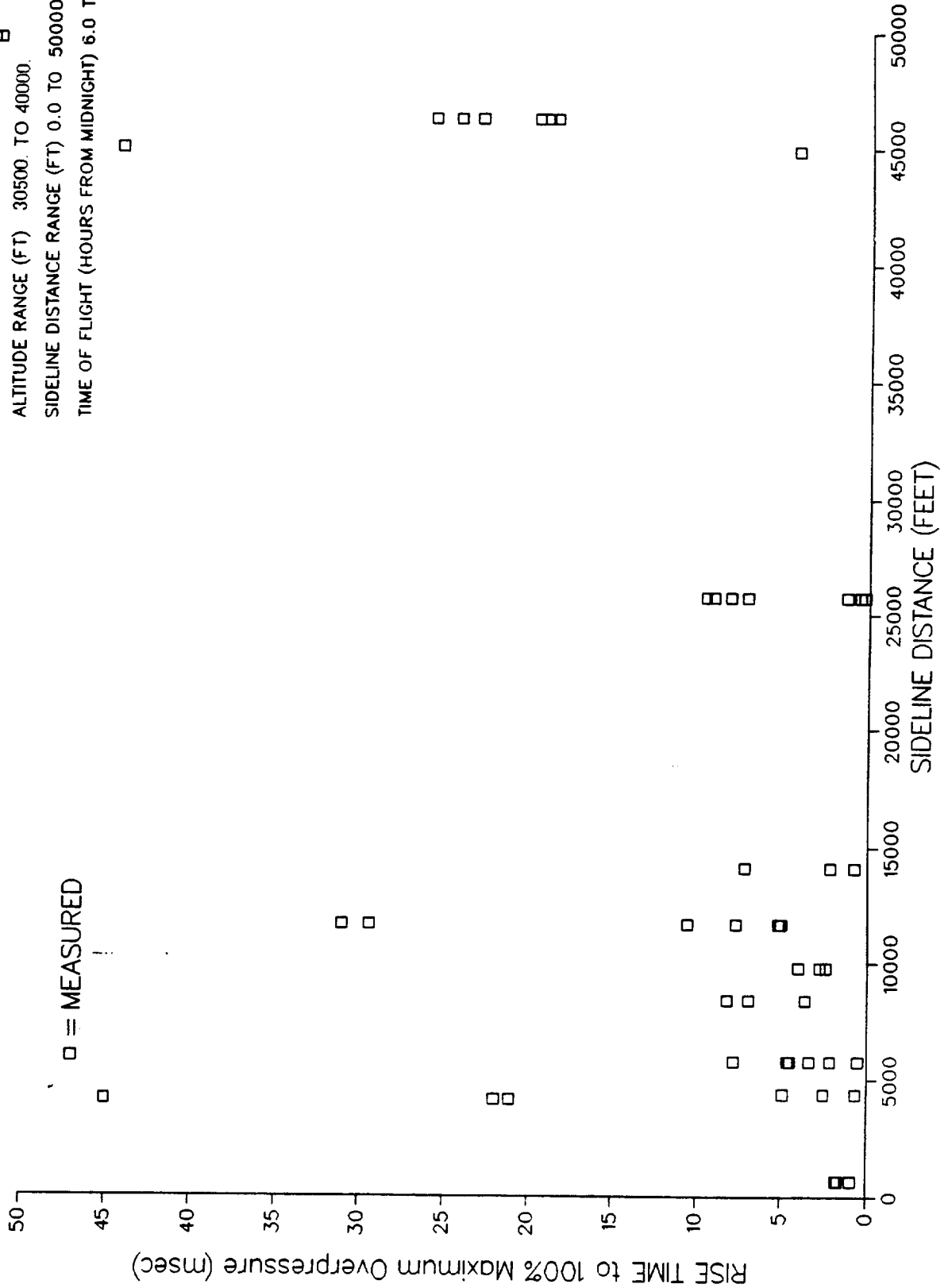
XB70 MEASURED DATA
VS
MDBOOM CALCULATED DATA

AIRCRAFT TYPE ALL
MACH NUMBER RANGE 1.17 TO 1.87
ALTIUDE RANGE (FT) 41000. TO 50000.
SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



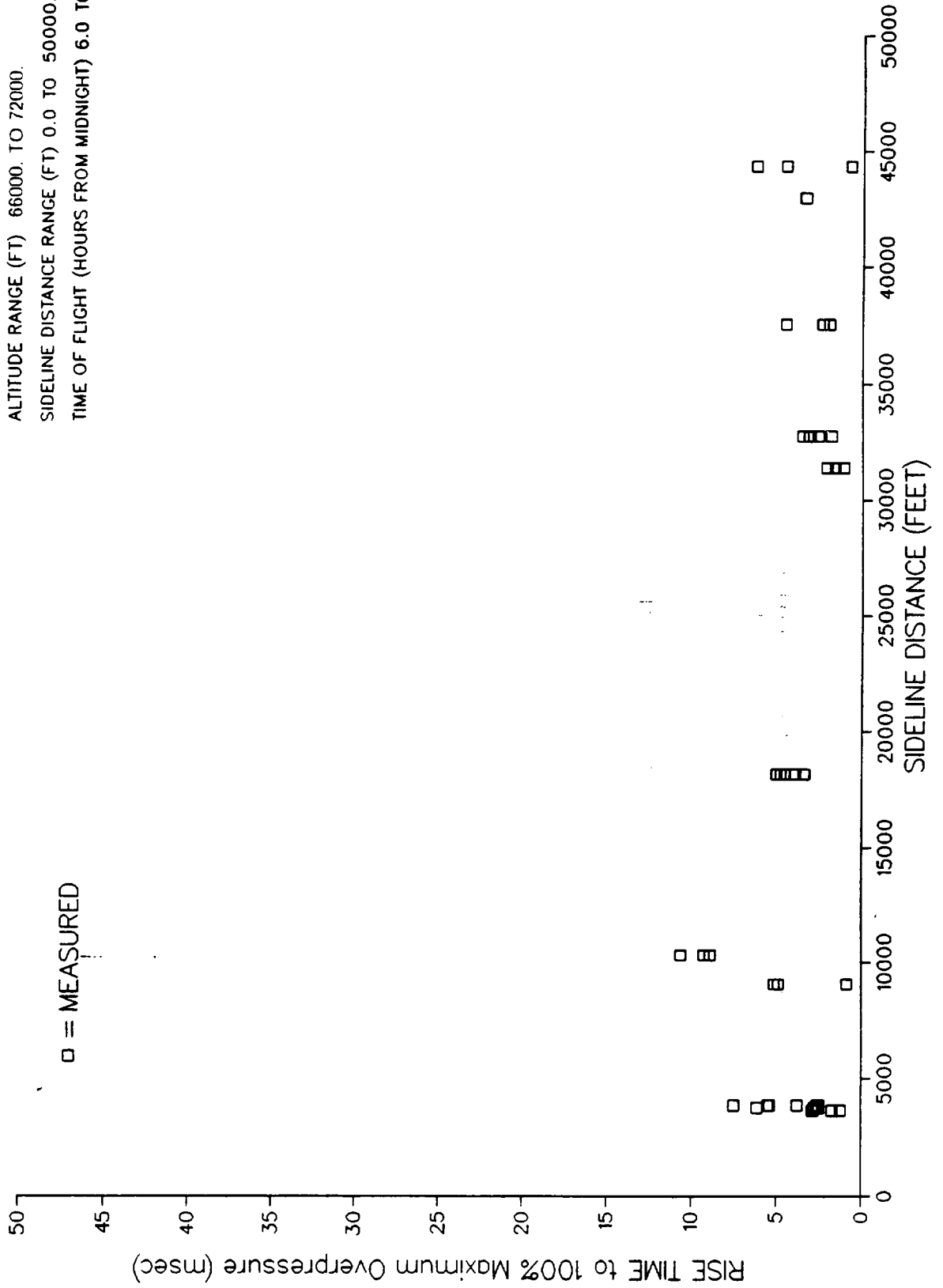
XB70 MEASURED DATA
VS
MDBOOM CALCULATED DATA

AIRCRAFT TYPE ALL
 MACH NUMBER RANGE 1.17 TO 1.55
 ALTITUDE RANGE (FT) 30500. TO 40000.
 SIDELINE DISTANCE RANGE (FT) 0.0 TO 50000.0
 TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



XB70 MEASURED DATA
VS
MDBOOM CALCULATED DATA

AIRCRAFT TYPE ALL
MACH NUMBER RANGE 2.60 TO 2.92
ALTIUDE RANGE (FT) 66000. TO 72000.
SIDELINE DISTANCE RANGE (FT) 0.0 TO 50000.0
TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



XB70 MEASURED DATA
VS
MDBOOM CALCULATED DATA

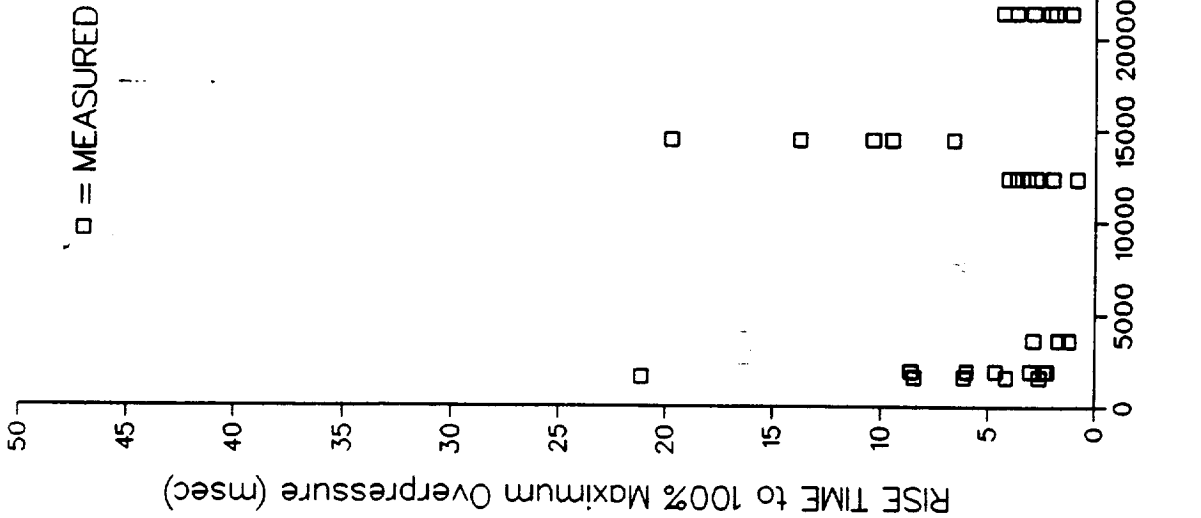
AIRCRAFT TYPE ALL

MACH NUMBER RANGE 1.80 TO 2.60

ALTITUDE RANGE (FT) 41500. TO 66000.

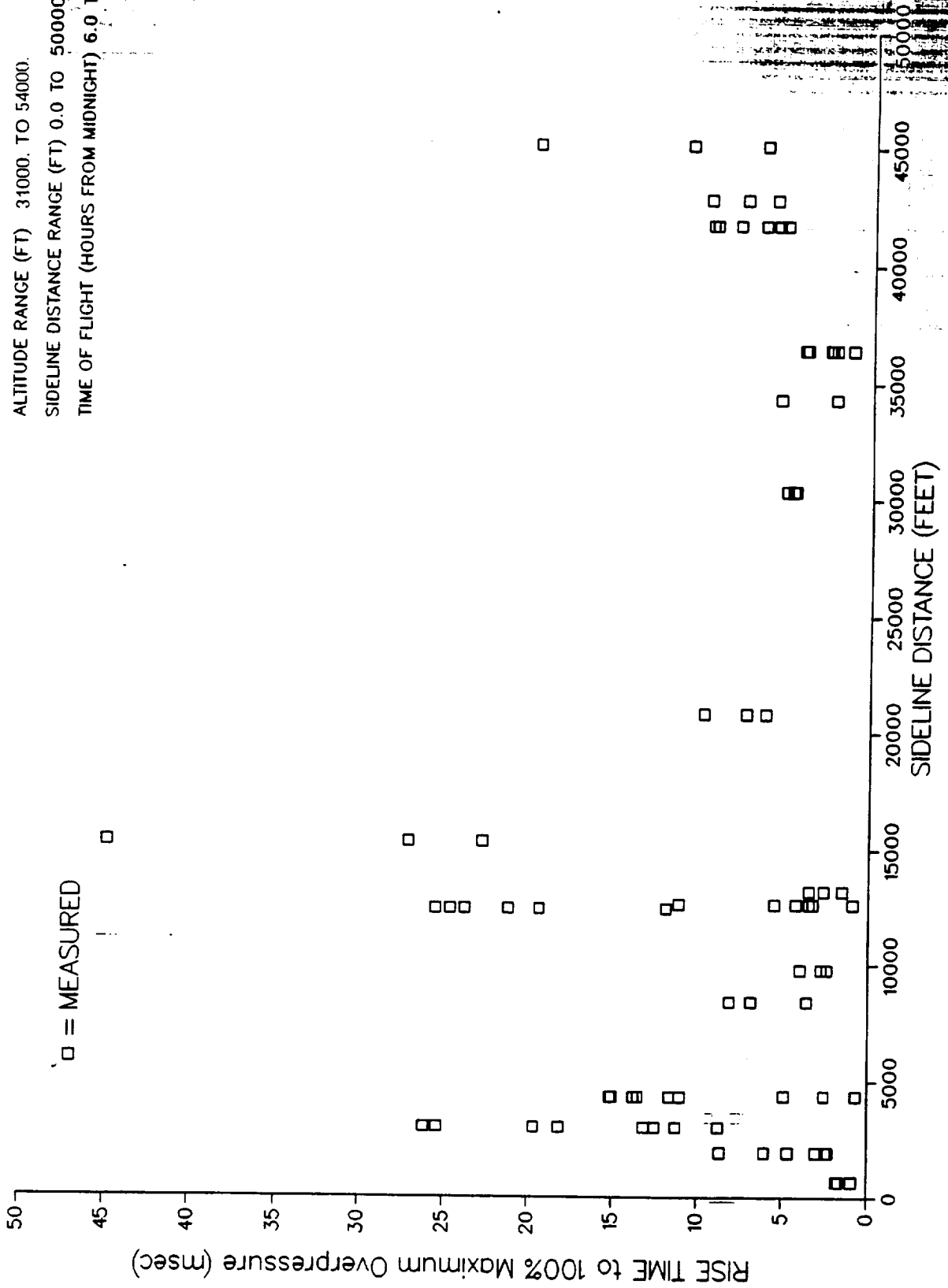
SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0

TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



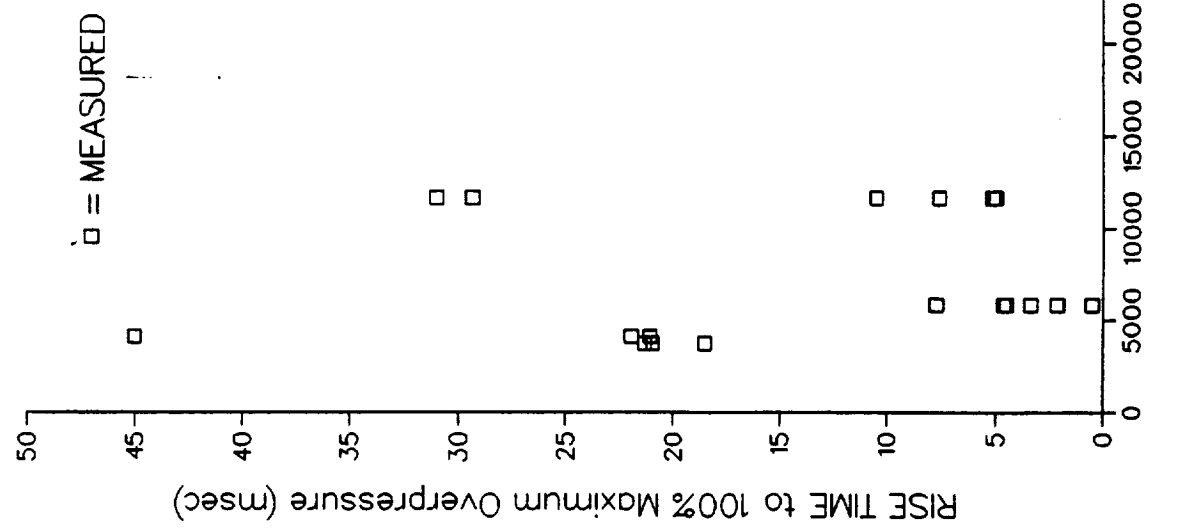
**XB70 MEASURED DATA
VS
MDBOOM CALCULATED DATA**

AIRCRAFT TYPE ALL
MACH NUMBER RANGE 1.40 TO 1.80
ALTITUDE RANGE (FT) 31000. TO 54000.
SIDELINE DISTANCE RANGE (FT) 0.0 TO 50000.0
TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



**XB70 MEASURED DATA
vs
MDBOOM CALCULATED DATA**

AIRCRAFT TYPE ALL
 MACH NUMBER RANGE 1.00 TO 1.40
 ALTITUDE RANGE (FT) 31800. TO 50000.
 SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0
 TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



B70

APPENDIX C

Asymmetry Plots

XB70 MEASURED DATA
ASYMMERTY
(COMPRESSION - EXPANSION)

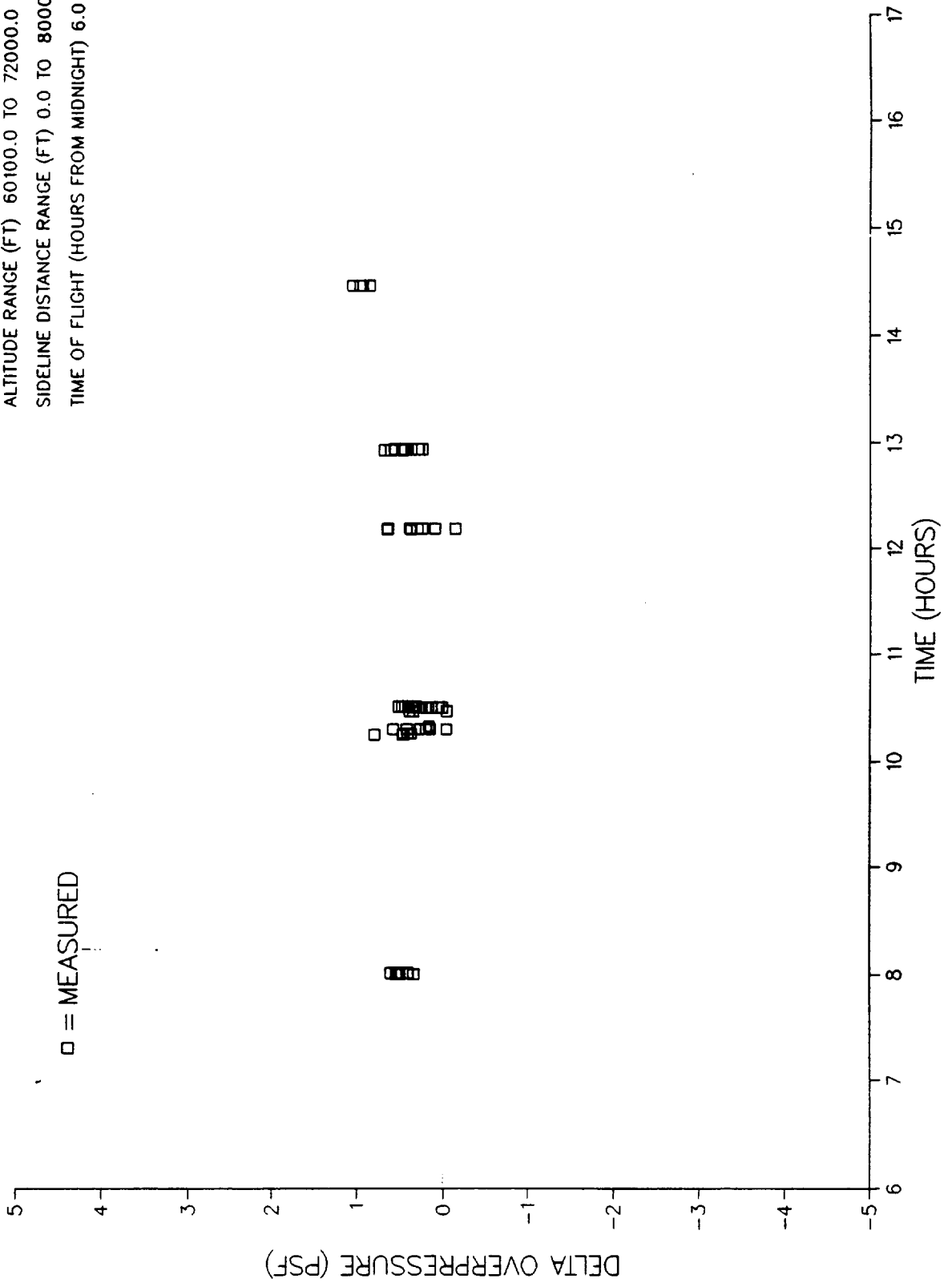
AIRCRAFT TYPE ALL

MACH NUMBER RANGE 2.05 TO 2.92

ALTITUDE RANGE (FT) 60100.0 TO 72000.0

SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0

TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



XB70 MEASURED DATA
ASYMMERTY
(COMPRESSION - EXPANSION)

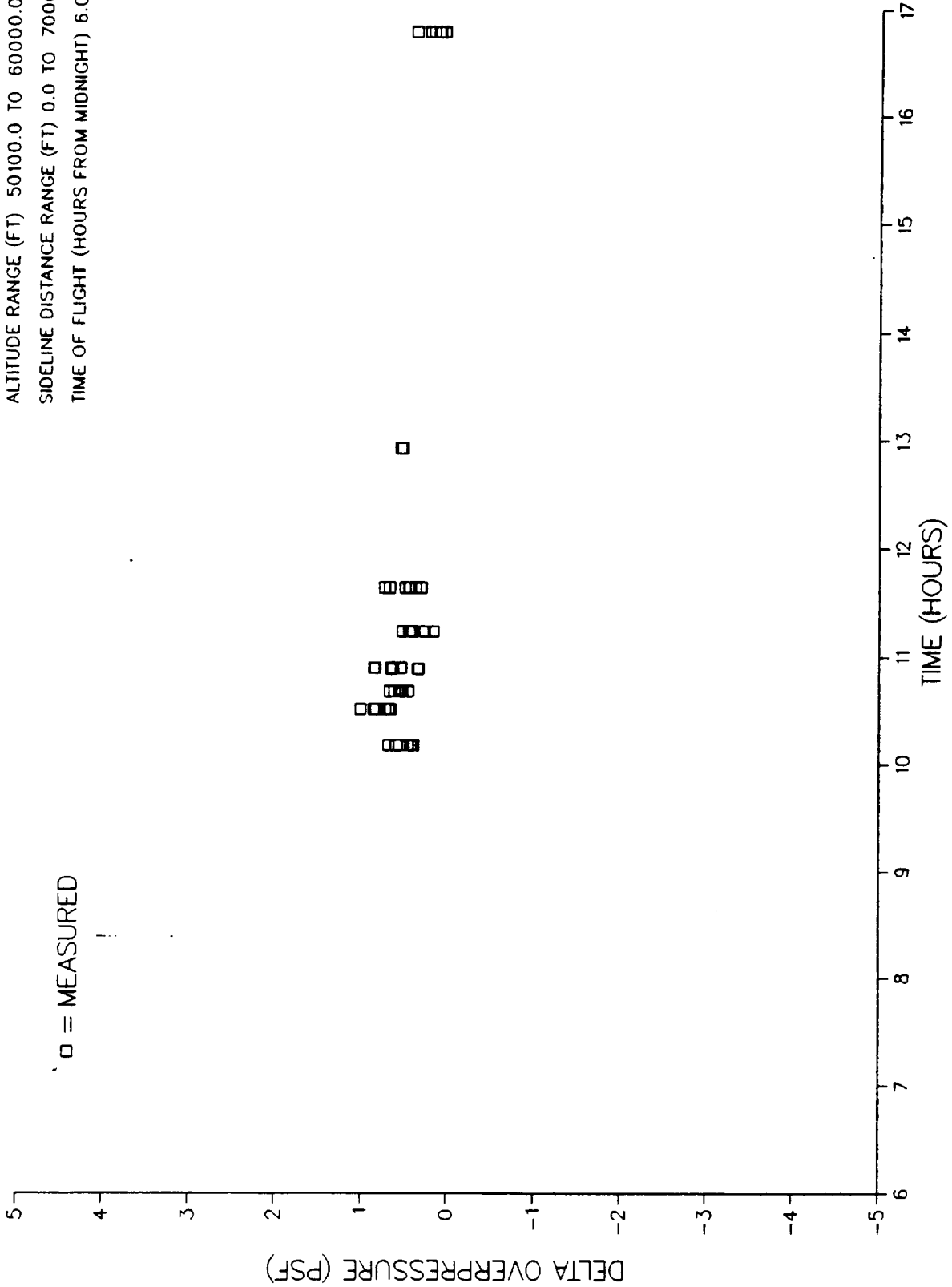
AIRCRAFT TYPE ALL

MACH NUMBER RANGE 1.55 TO 2.31

ALTITUDE RANGE (FT) 50100.0 TO 60000.0

SIDELINE DISTANCE RANGE (FT) 0.0 TO 70000.0

TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



XB70 MEASURED DATA
ASYMMERTY
(COMPRESSION - EXPANSION)

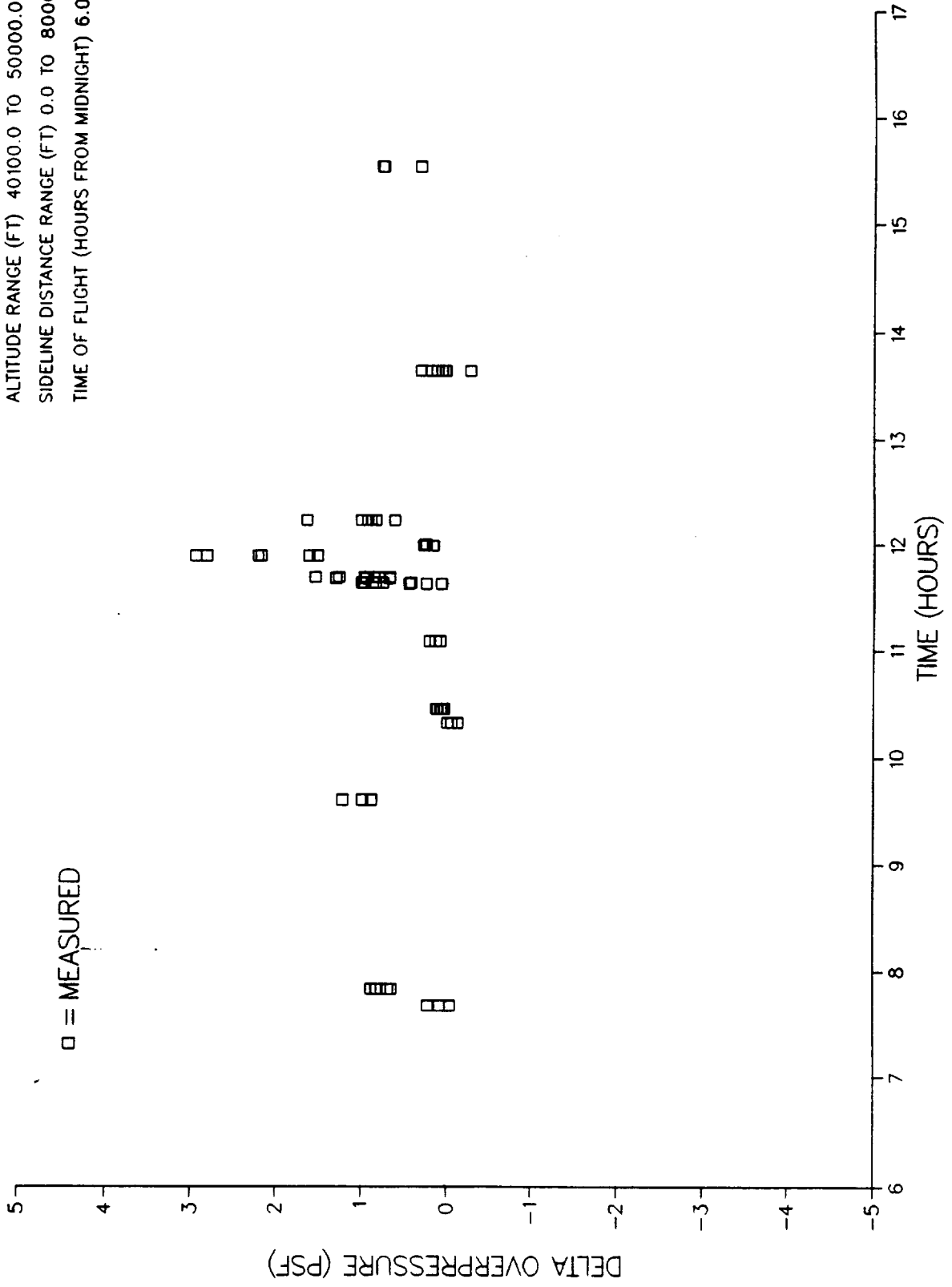
AIRCRAFT TYPE ALL

MACH NUMBER RANGE 1.17 TO 1.87

ALTITUDE RANGE (FT) 40100.0 TO 50000.0

SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0

TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



XB70 MEASURED DATA
ASYMMERTY
(COMPRESSION - EXPANSION)

AIRCRAFT TYPE ALL

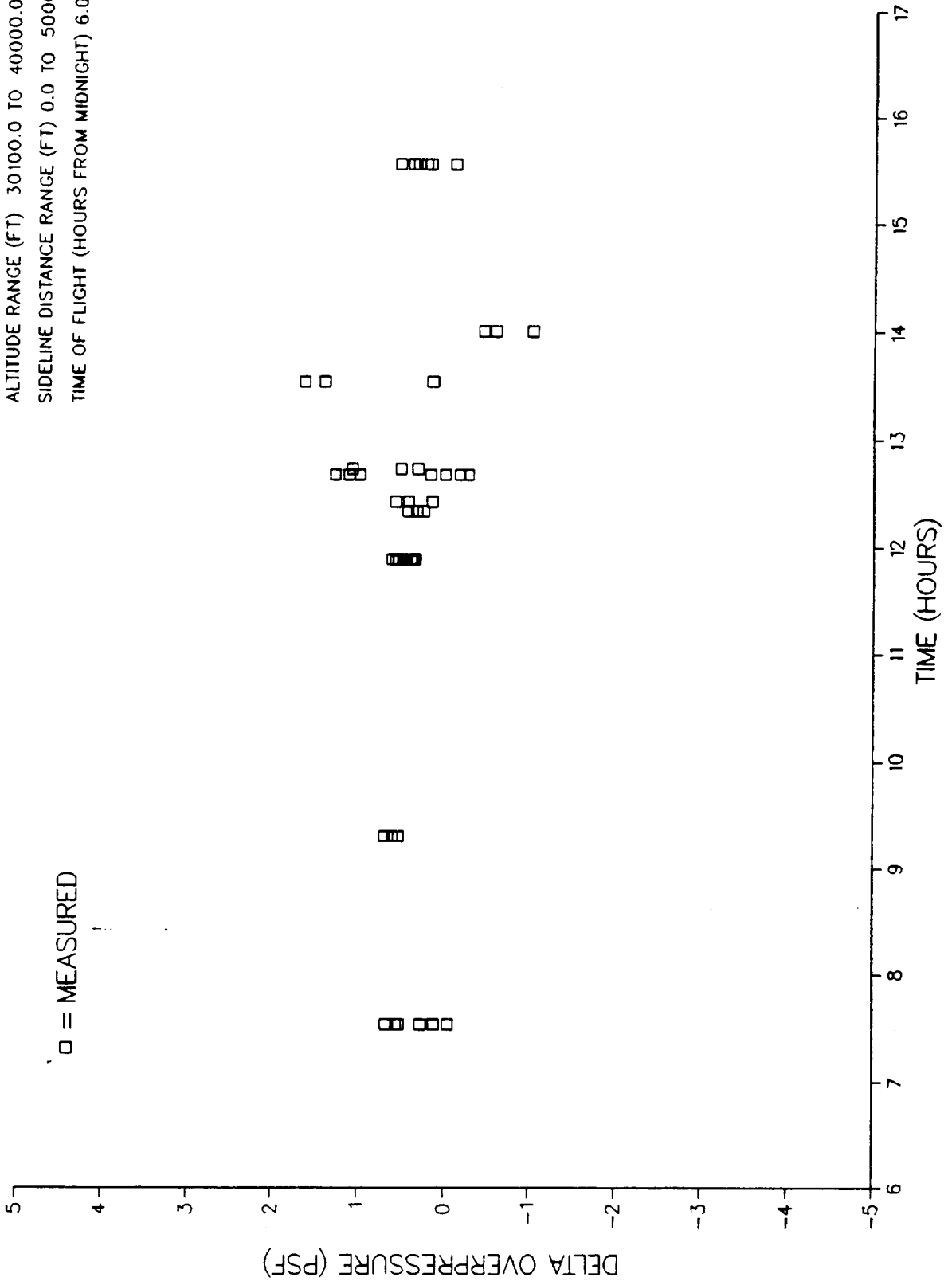
MACH NUMBER RANGE 1.17 TO 1.55

ALTITUDE RANGE (FT) 30100.0 TO 40000.0

SIDELINE DISTANCE RANGE (FT) 0.0 TO 50000.0

TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0

□ = MEASURED



XB70 MEASURED DATA
ASYMMETRY
(COMPRESSION - EXPANSION)

AIRCRAFT TYPE ALL

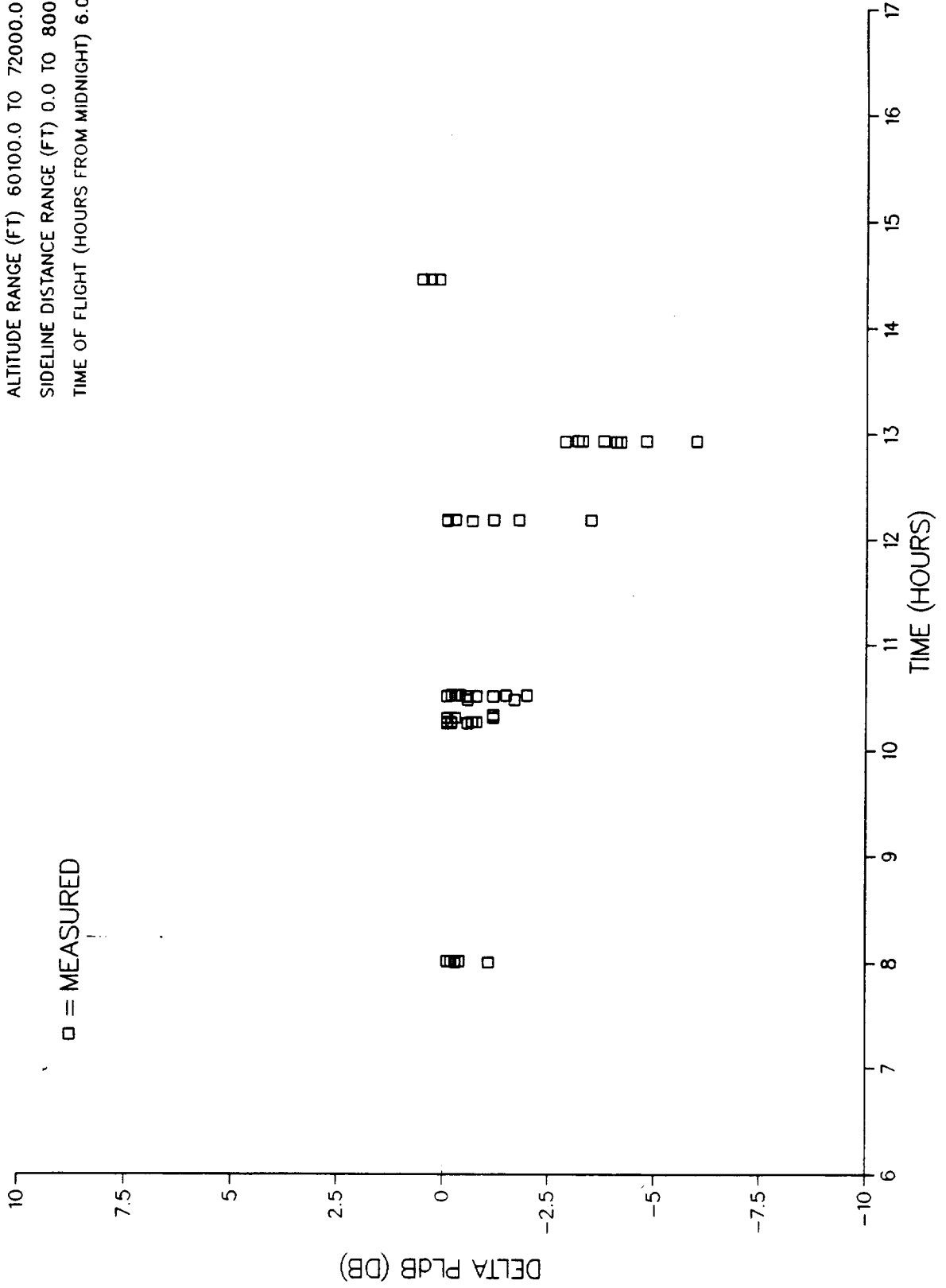
MACH NUMBER RANGE 2.05 TO 2.92

ALTITUDE RANGE (FT) 60100.0 TO 72000.0

SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0

TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0

□ = MEASURED



XB70 MEASURED DATA
ASYMMERTY
(COMPRESSION - EXPANSION)

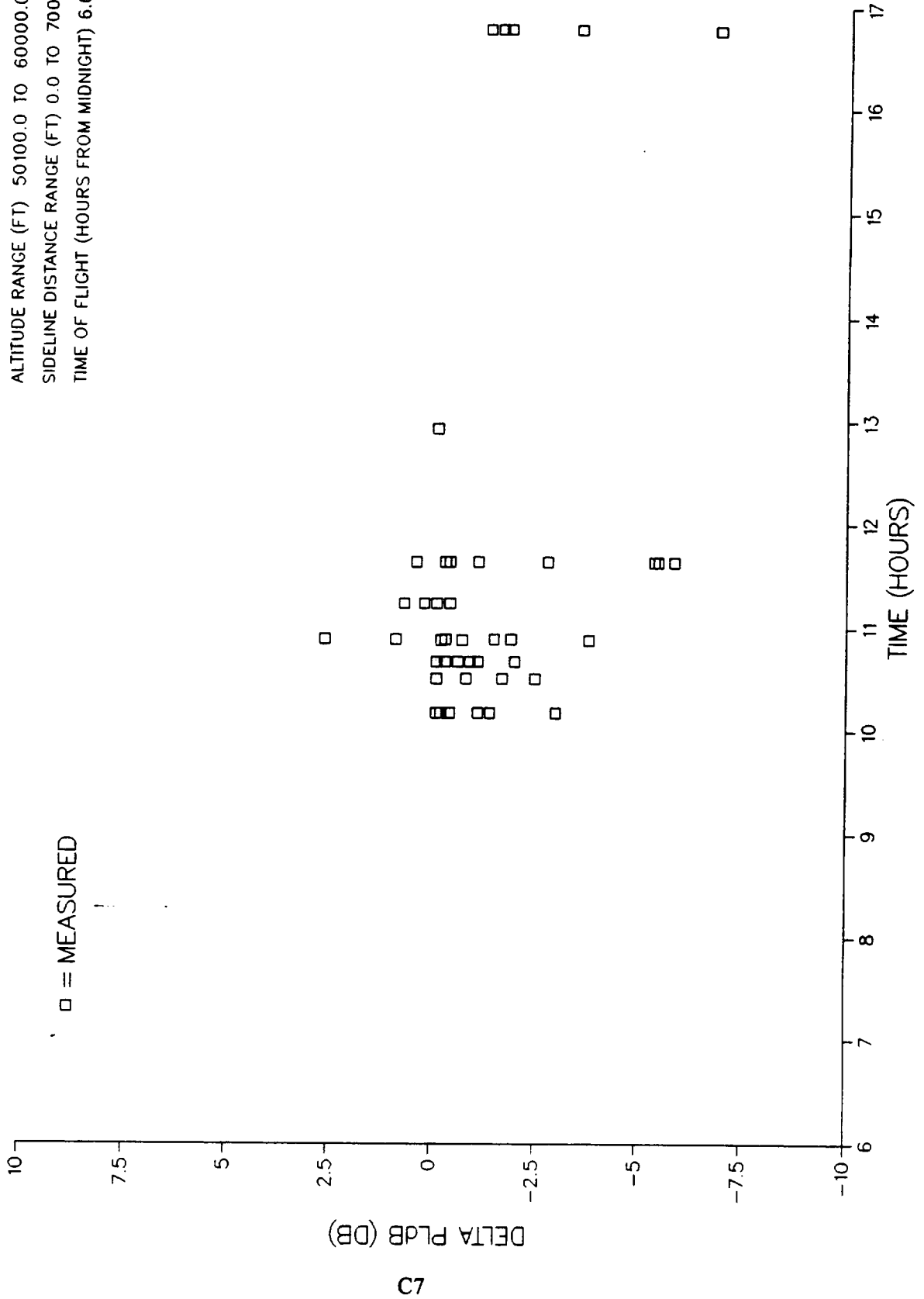
AIRCRAFT TYPE ALL

MACH NUMBER RANGE 1.55 TO 2.31

ALTITUDE RANGE (FT) 50100.0 TO 60000.0

SIDELINE DISTANCE RANGE (FT) 0.0 TO 70000.0

TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



XB70 MEASURED DATA
ASYMMETRY
(COMPRESSION -- EXPANSION)

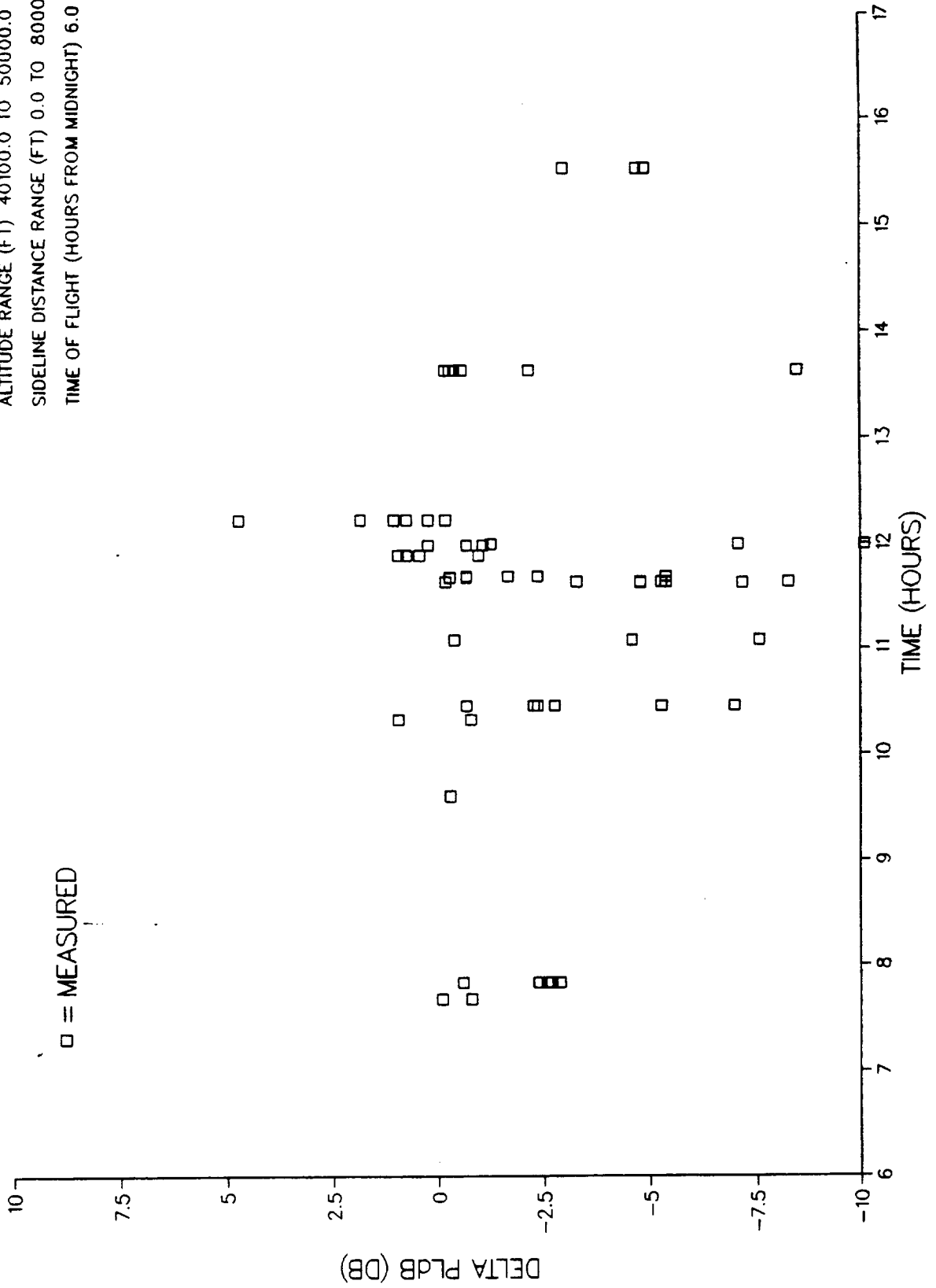
AIRCRAFT TYPE ALL

MACH NUMBER RANGE 1.17 TO 1.87

ALTITUDE RANGE (FT) 40100.0 TO 50000.0

SIDELINE DISTANCE RANGE (FT) 0.0 TO 80000.0

TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



XB70 MEASURED DATA
ASYMMETRY
(COMPRESSION - EXPANSION)

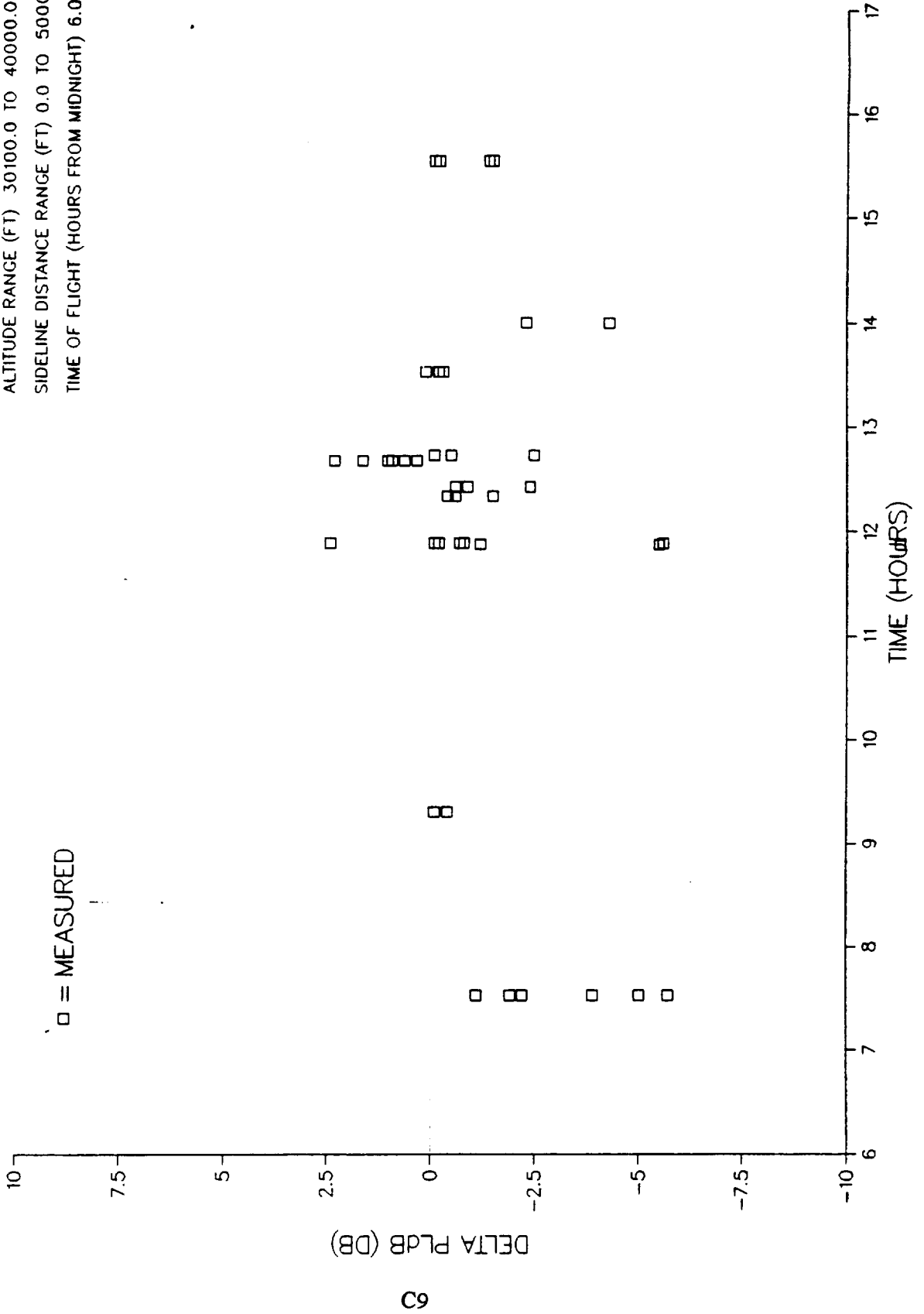
AIRCRAFT TYPE ALL

MACH NUMBER RANGE 1.17 TO 1.55

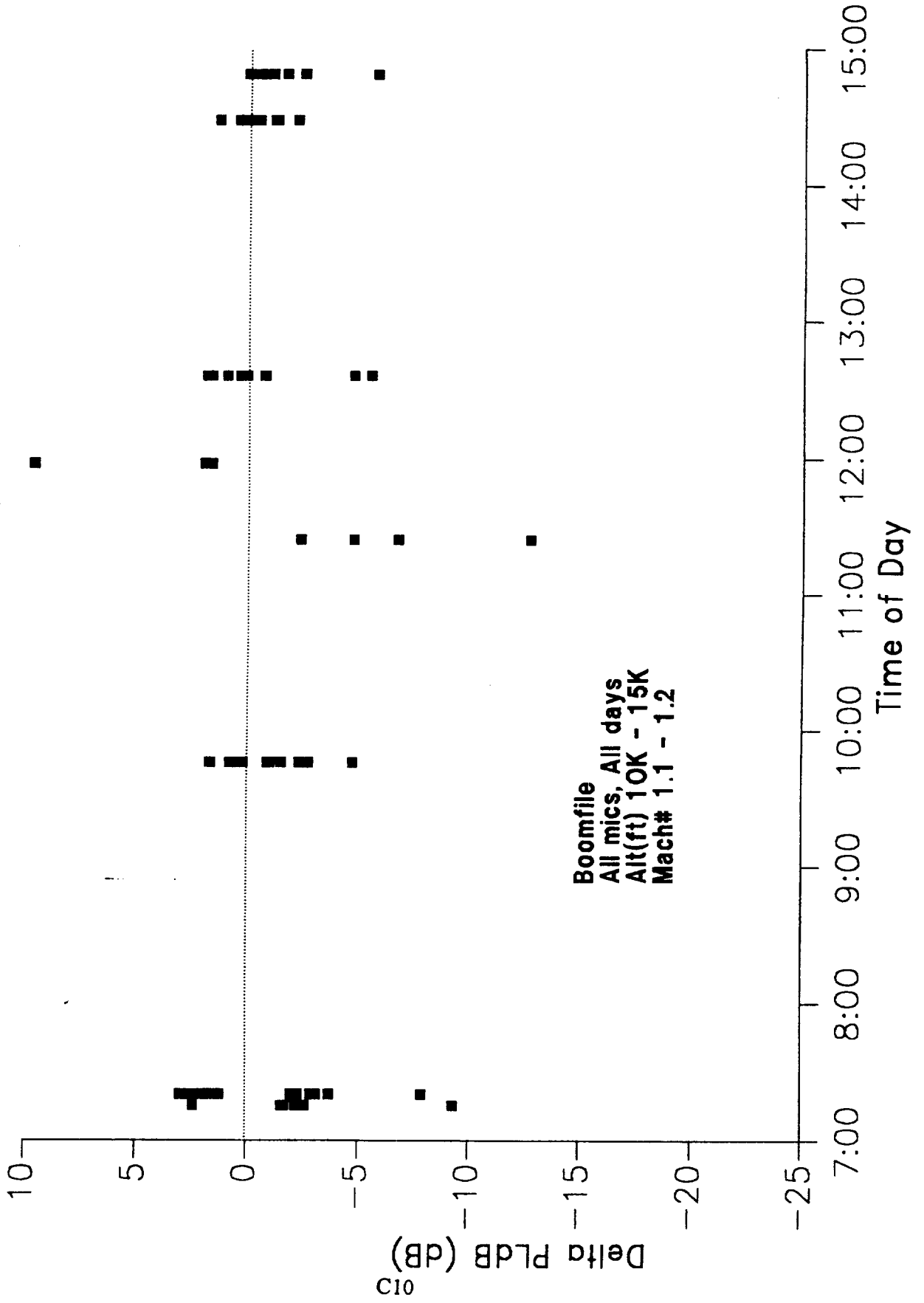
ALTITUDE RANGE (FT) 30100.0 TO 40000.0

SIDELINE DISTANCE RANGE (FT) 0.0 TO 50000.0

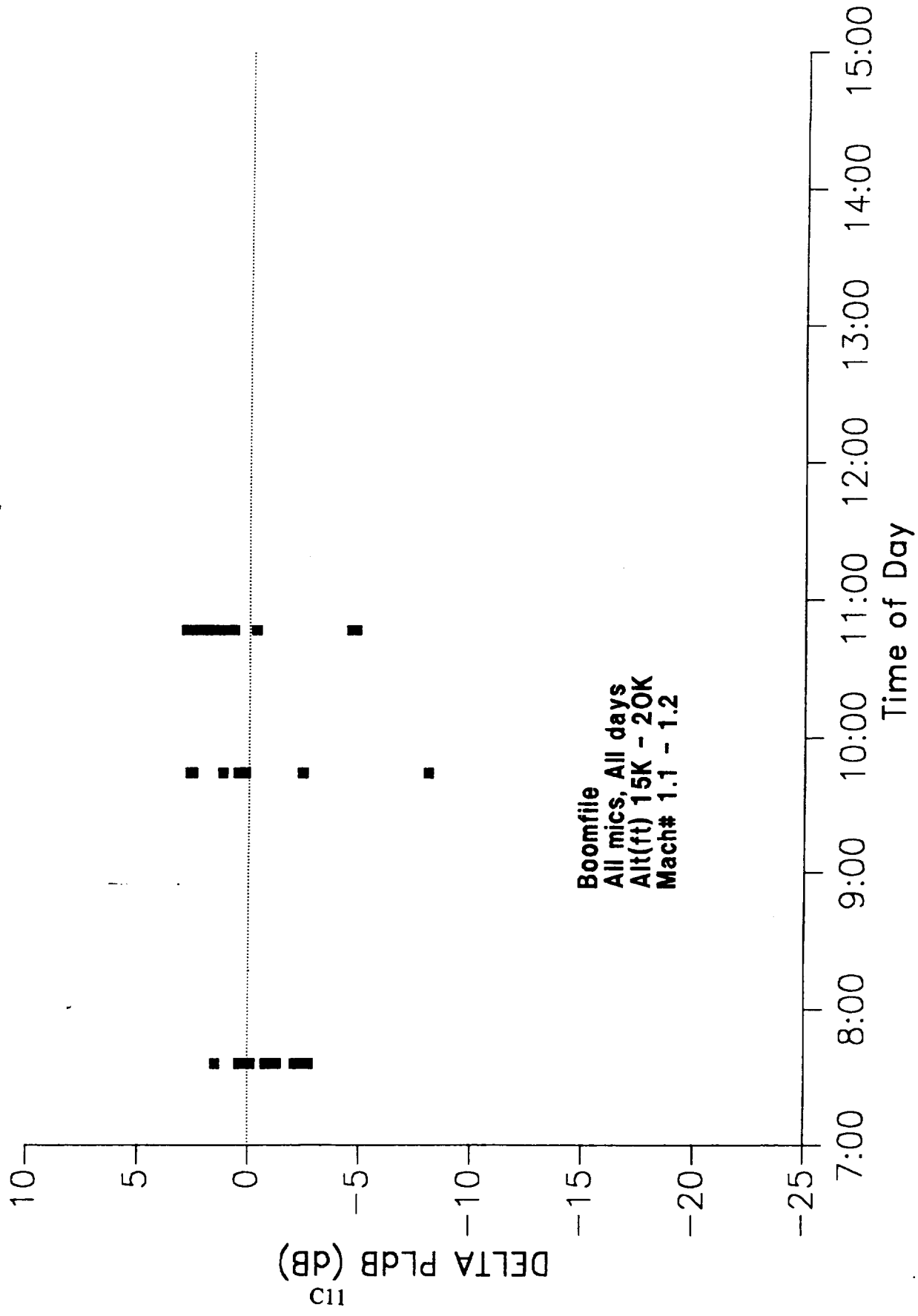
TIME OF FLIGHT (HOURS FROM MIDNIGHT) 6.0 TO 17.0



**BOOMFILE MEASURED DATA
ASYMMETRY
(Compression - Expansion)**

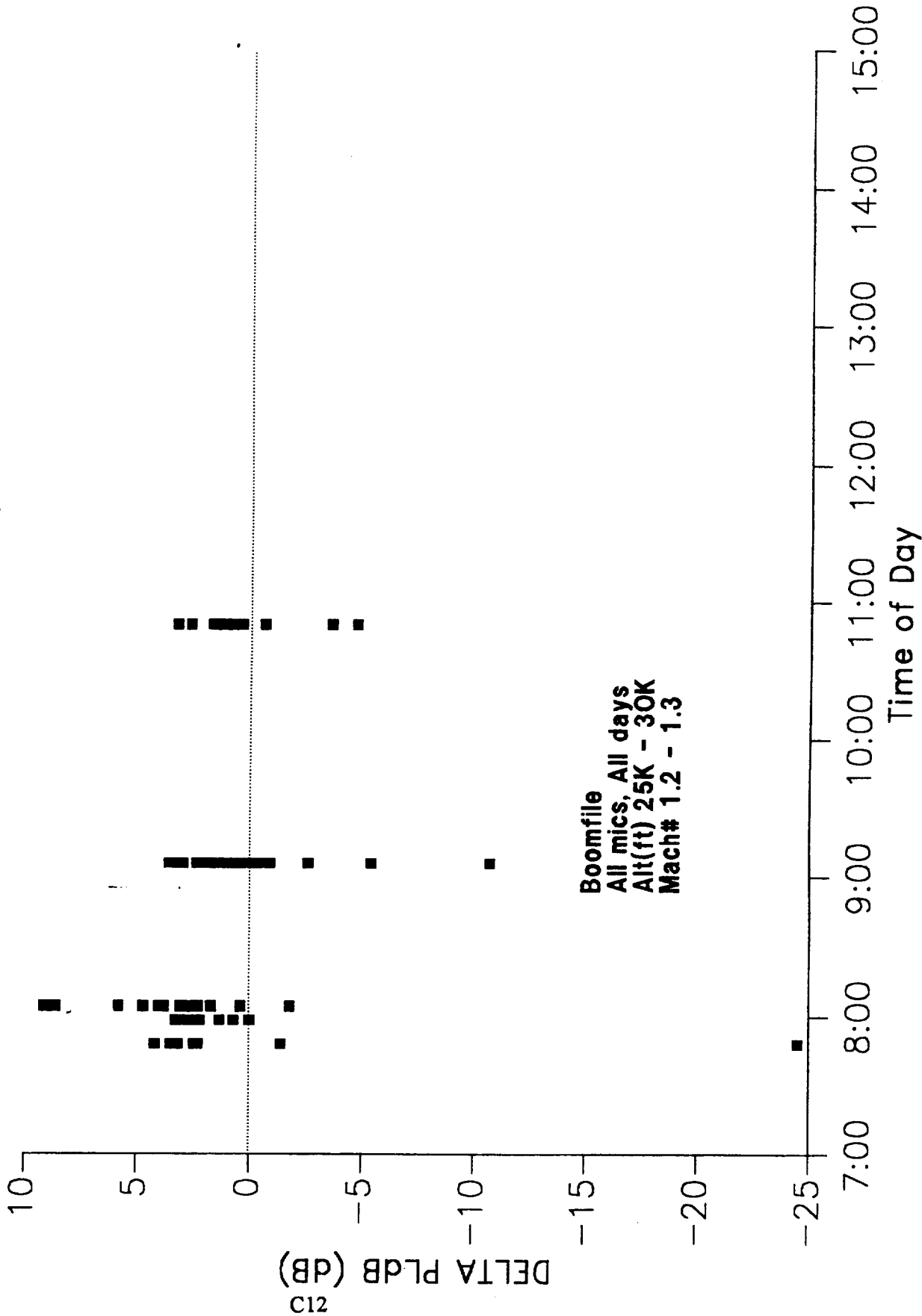


BOOMFILE MEASURED DATA ASYMMETRY (Compression - Expansion)



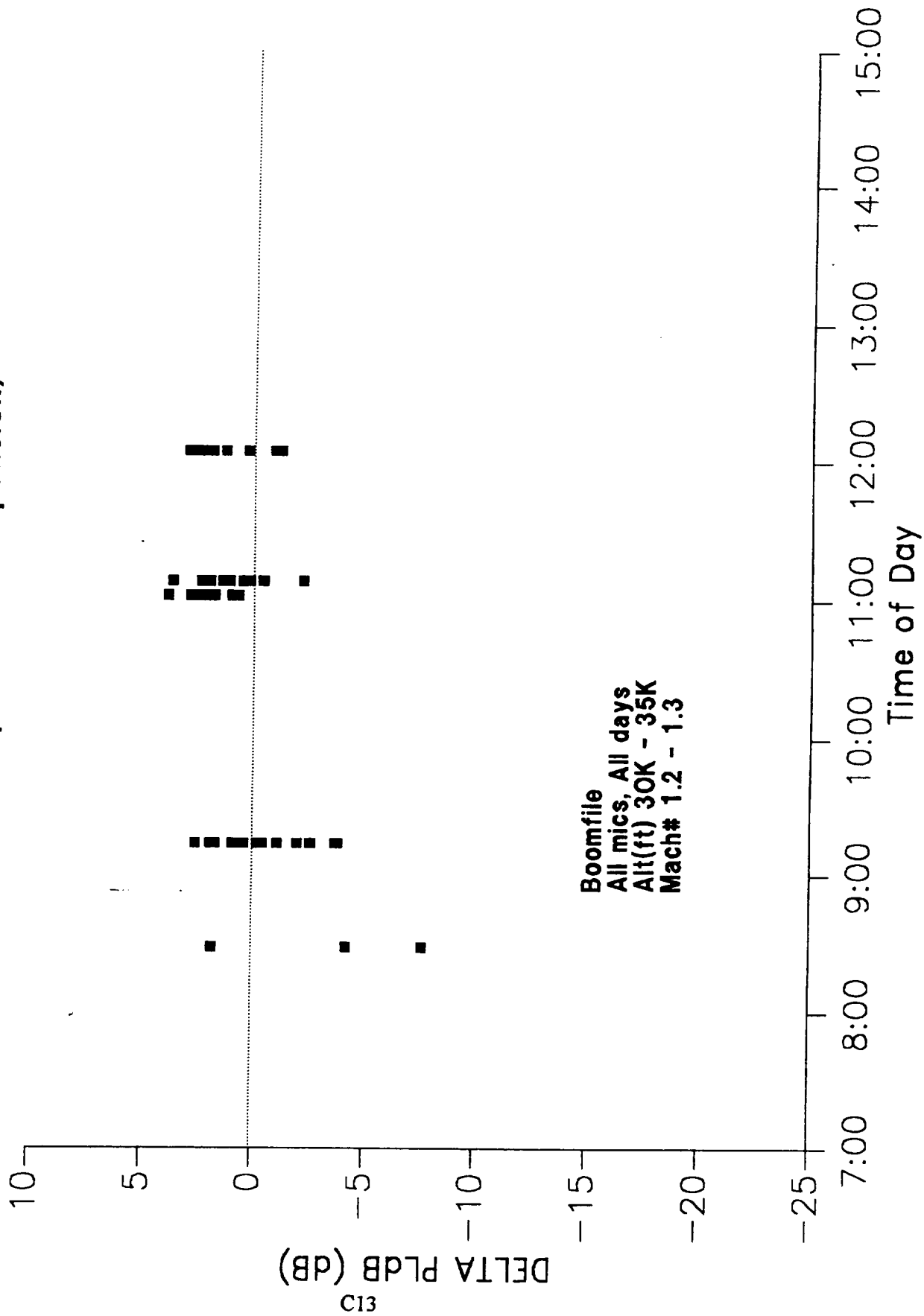
Boomfile
All mics, All days
Alt(ft) 15K - 20K
Mach# 1.1 - 1.2

**BOOMFILE MEASURED DATA
ASYMMETRY
(Compression - Expansion)**

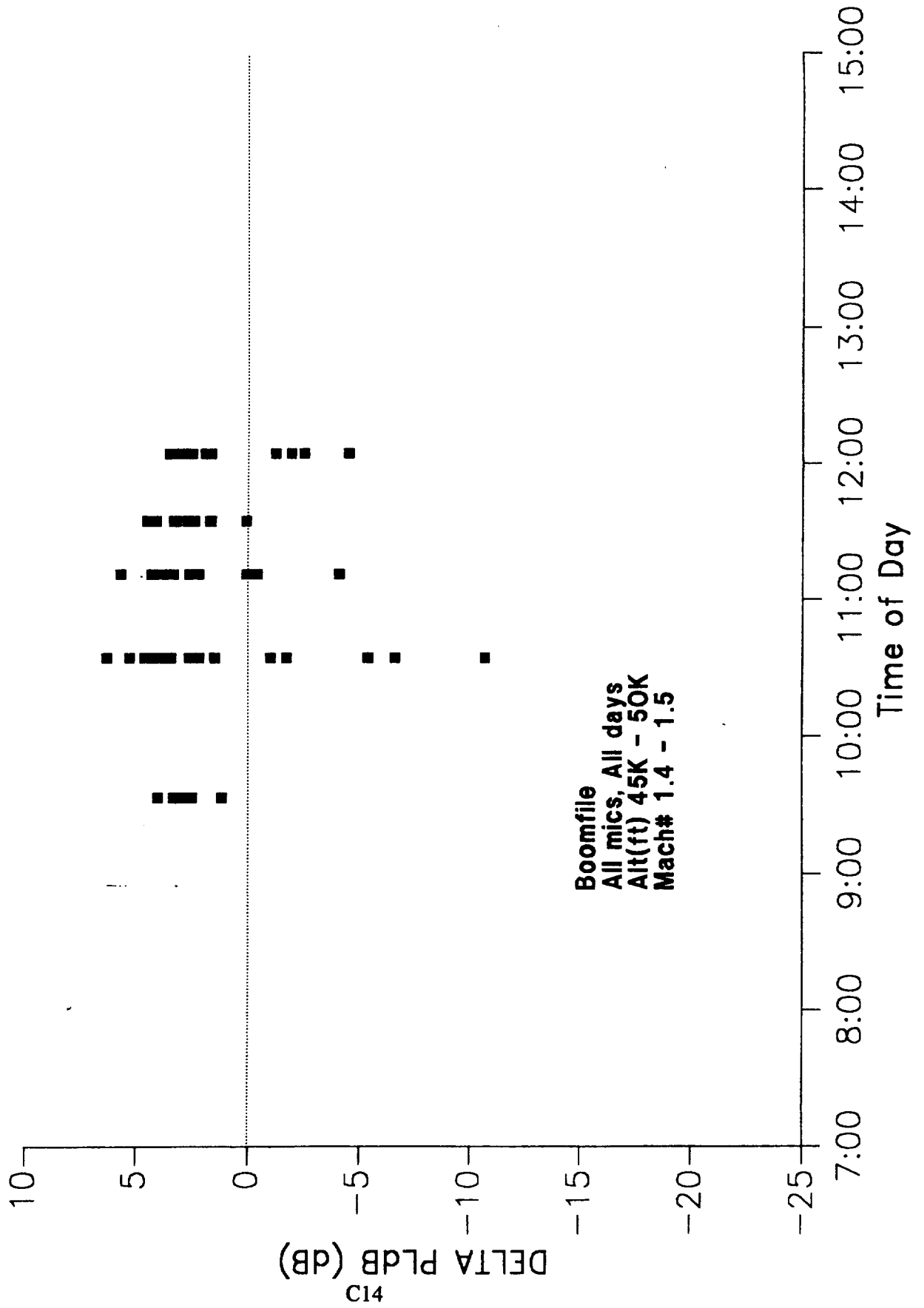


**Boomfile
All mics, All days
Alt(ft) 25K - 30K
Mach# 1.2 - 1.3**

**BOOMFILE MEASURED DATA
ASYMMETRY
(Compression - Expansion)**



**BOOMFILE MEASURED DATA
ASYMMETRY
(Compression - Expansion)**



APPENDIX D

XB-70 Equivalent Metrics

**XB-70 Database (Noise Metrics) Log Averaged Mean Value
Of Each Microphone Cluster For Each Flight**

FILE	TIME	POINTS	AVG Pmax (PSF)	AVG Pmin (PSF)	LAVG Lpk (dB)	LAVG ESEL (dB)	LAVG ASEL (dB)	LAVG CSEL (dB)	LAVG PLDB (dB)	Sideline (Feet)	DFBR (Feet)	Altitude (Feet)	Mach #
1	11.23	6	1.692	-1.317	132.3	120.2	85.5	105.7	101.0	21349.6	38871.3	50500.0	1.83
2	12.22	6	3.697	-2.717	139.0	126.0	95.0	113.3	110.8	0.0	34988.7	48000.0	1.80
3	8.00	3	1.597	-1.134	131.7	121.0	86.6	103.6	100.4	37535.6	33313.7	66000.0	2.60
3	8.00	3	1.567	-1.057	131.6	120.0	85.5	104.3	100.5	3636.3	28950.3	66000.0	2.60
4	7.53	6	2.578	-2.234	135.9	125.1	94.5	110.0	109.0	5791.6	58107.0	32000.0	1.23
5	7.67	3	2.110	-2.021	134.1	124.0	92.1	108.7	106.5	29667.2	64346.6	42300.0	1.38
6	13.50	2	0.310	-0.098	117.4	108.1	71.3	84.1	82.1	74248.0	109098.3	46000.0	1.40
7	11.98	3	2.120	-1.922	134.1	123.3	85.4	106.3	100.7	42784.5	70516.5	42500.0	1.42
7	11.98	3	1.340	-1.097	130.1	120.2	82.0	100.2	95.9	15315.4	51959.1	42500.0	1.42
8	12.42	3	3.047	-2.667	137.3	126.0	95.8	111.2	110.2	9761.6	36090.2	33800.0	1.50
9	12.33	3	2.480	-2.149	135.5	126.2	88.4	105.5	103.0	4129.4	43559.4	33000.0	1.35
10	12.72	3	3.720	-3.090	139.1	127.2	97.9	113.4	113.1	4376.0	35616.1	31000.0	1.42
11	13.53	3	3.550	-2.489	138.8	125.4	100.2	112.1	114.4	679.7	34421.8	34000.0	1.51
12	9.60	3	3.210	-2.182	137.7	125.2	90.8	110.4	107.0	13179.9	33015.1	41000.0	1.76
13	10.45	6	0.285	-0.211	116.7	107.2	74.9	90.2	86.8	61258.5	95298.9	50000.0	1.40
14	12.92	2	2.025	-1.490	133.7	121.7	91.0	106.5	104.6	34303.9	44502.1	50500.0	1.80
15	11.08	3	1.000	-0.864	127.6	117.2	80.0	99.5	94.8	32663.3	36965.6	41500.0	1.87
16	13.63	6	2.758	-2.687	136.4	125.5	95.4	110.7	110.0	12614.5	38626.7	41500.0	1.61
17	10.17	6	1.285	-0.791	129.8	118.2	82.6	101.6	97.3	62130.1	58816.5	53000.0	1.82
18	10.50	6	1.972	-1.179	133.6	122.2	90.3	106.1	104.2	30107.7	34212.1	60000.0	2.31
19	10.67	6	1.833	-1.270	132.9	121.1	88.2	105.3	102.1	36435.2	47650.3	54000.0	1.79
20	10.50	6	1.875	-1.747	133.1	123.3	89.1	106.7	103.7	0.0	30380.0	65500.0	2.48
21	13.25	3	3.307	-2.624	138.0	126.7	95.2	110.5	110.1	14098.4	31779.2	30500.0	1.55
21	14.00	3	3.000	-3.692	137.2	128.1	94.4	111.3	109.5	44863.5	109830.6	38000.0	1.25
22	9.30	3	1.713	-1.112	132.3	120.6	86.8	105.0	101.4	8382.3	39292.3	37000.0	1.50
22	10.47	3	3.007	-2.774	137.1	126.5	95.8	111.2	110.3	31396.4	29518.4	70000.0	2.90
23	14.45	4	2.330	-1.380	135.0	121.8	89.7	108.3	104.6	10303.2	26985.1	70000.0	2.92
24	10.33	1	1.260	-1.089	129.6	119.4	84.3	102.6	98.6	42966.2	31445.0	69800.0	2.91
25	7.83	6	2.045	-1.258	133.8	122.0	84.8	104.1	99.2	41697.9	45253.1	44900.0	1.80
26	10.30	6	1.992	-1.726	133.6	123.5	89.0	106.9	103.4	12345.6	39728.2	66000.0	2.05
27	11.88	6	3.283	-1.072	138.1	121.4	89.5	108.7	105.6	4336.5	33788.5	45100.0	1.78
28	11.67	3	3.250	-2.276	137.9	126.0	87.8	109.3	103.9	20803.9	35615.2	41000.0	1.75
28	11.67	6	3.592	-2.578	138.7	127.0	91.7	110.4	107.5	1617.5	30478.8	42000.0	1.82
29	15.53	3	3.850	-3.242	139.3	129.2	93.1	110.8	108.4	6830.5	107588.3	41000.0	1.17
29	15.53	6	3.183	-2.921	137.7	127.3	90.8	110.8	107.0	11649.8	110456.8	40000.0	1.17
30	10.50	3	1.820	-1.501	132.8	122.2	84.7	105.4	100.1	3765.7	29191.4	68500.0	2.66
30	10.50	6	1.720	-1.301	132.3	121.9	82.2	104.2	98.0	18175.1	30479.4	69300.0	2.66
31	10.25	3	1.863	-1.291	133.0	121.5	87.6	105.3	102.0	44358.2	32813.6	66000.0	2.74
31	10.25	4	1.592	-1.188	131.6	120.5	84.4	104.1	99.7	32738.2	30366.6	66000.0	2.74
32	12.17	3	2.130	-1.576	134.2	122.7	90.2	106.9	104.7	9039.8	27905.4	70300.0	2.84
32	12.17	6	1.738	-1.486	132.4	122.4	84.3	104.7	99.5	3855.9	27717.3	70300.0	2.84
33	10.88	3	2.967	-2.522	137.1	125.8	90.7	110.6	106.7	30342.2	43183.1	51000.0	1.80

33	10.88	6	2.087	-1.411	134.0	121.8	88.7	106.3	102.7	1933.7	37020.1	51000.0	1.80
34	11.62	3	3.000	-2.753	137.2	126.3	88.2	108.4	104.0	45073.2	59818.1	44000.0	1.56
34	11.62	6	1.928	-1.100	133.3	120.0	81.0	102.1	95.8	12424.4	42893.0	44000.0	1.56
34	11.87	3	1.600	-1.138	131.7	121.0	89.0	98.9	99.2	49614.0	83739.4	36400.0	1.36
34	11.87	6	1.308	-0.867	130.0	118.2	77.6	98.6	91.3	46177.4	79606.8	36400.0	1.36
35	11.63	8	2.840	-2.366	136.7	126.3	83.4	106.4	99.6	3011.4	48586.6	52000.0	1.55
36	16.77	6	1.675	-1.488	132.2	122.2	83.1	102.7	98.0	29468.5	32027.1	53000.0	2.26
37	12.92	3	2.617	-2.035	136.0	124.8	85.5	106.0	100.9	70589.5	51856.5	64000.0	2.20
37	12.92	5	1.024	-0.642	127.8	116.2	77.0	98.2	92.3	14429.3	35416.2	64000.0	2.20
38	10.32	3	2.227	-2.286	134.5	124.7	94.3	108.4	108.6	3744.8	64628.0	44300.0	1.30
39	12.67	7	2.211	-1.768	134.7	122.1	95.5	109.8	110.2	25729.4	86275.2	39800.0	1.24
40	0.00	15	2.573	-2.021	135.9	124.7	90.1	108.3	105.2	25729.4	86275.2	39800.0	1.24
41	0.00	16	1.773	-1.525	132.6	122.4	88.7	105.6	103.1	6000.0	0.0	52900.0	1.81
42	0.00	16	3.642	-3.476	138.9	127.4	97.3	114.2	112.9	70.0	0.0	72000.0	2.83

**XB-70 Database (Noise Metrics) Standard Deviation
Of Each Microphone Cluster For Each Flight**

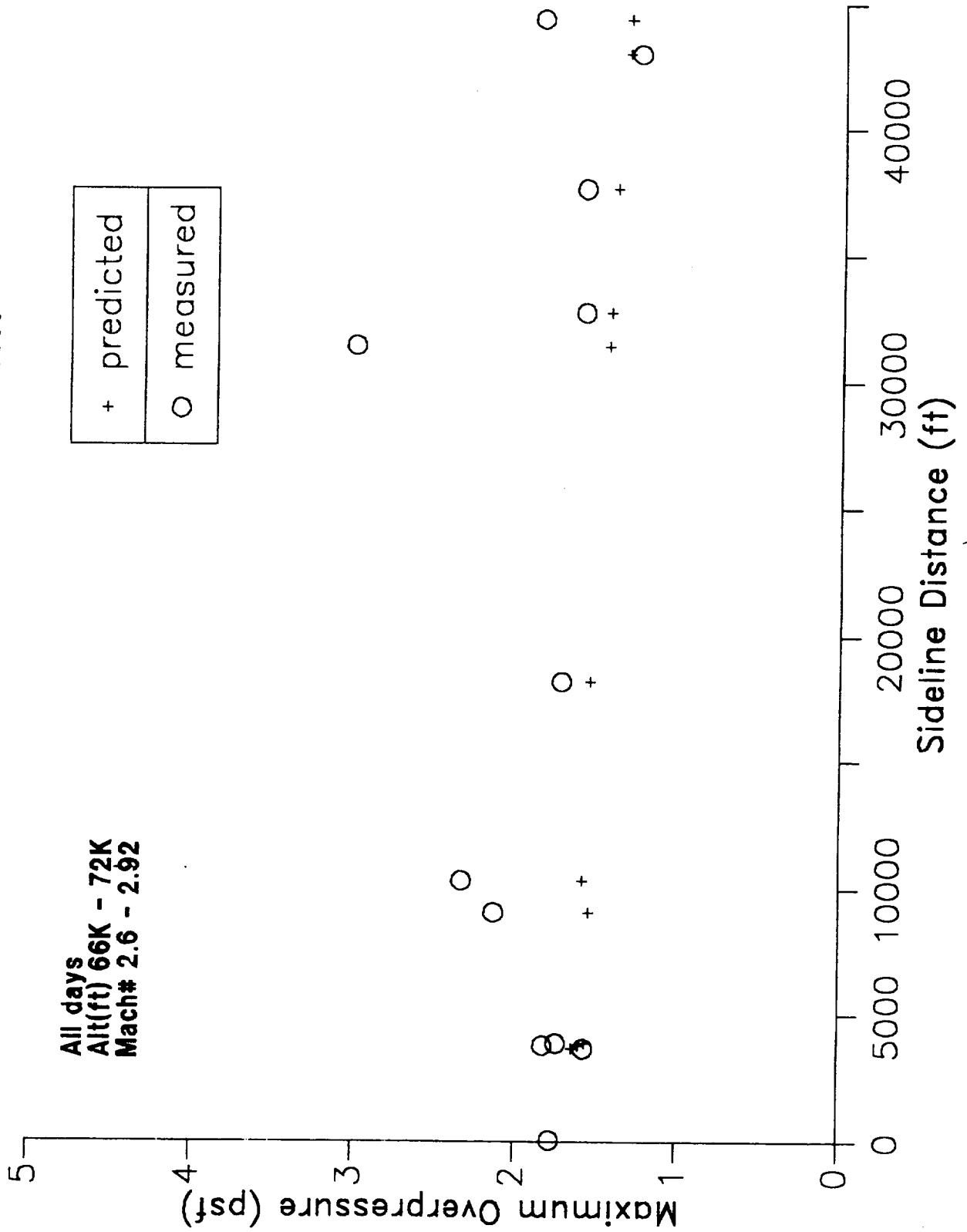
FILE	TIME	POINTS	STDV Pmax (PSF)	STDV Pmin (PSF)	STDV Lpk (dB)	STDV ESEL (dB)	STDV ASEL (dB)	STDV CSEL (dB)	STDV PLDB (dB)	Sideline (Feet)	DFBR (Feet)	Altitude (Feet)	Mach #
1	11.23	6	0.293	0.212	1.595	1.394	1.555	1.475	1.623	21349.6	38871.3	50500.0	1.83
2	12.22	6	0.447	0.412	1.077	1.032	1.524	1.054	0.775	0.0	34988.7	48000.0	1.80
3	8.00	3	0.114	0.051	0.663	0.153	1.179	0.375	0.984	37535.6	33313.7	66000.0	2.60
3	8.00	3	0.275	0.188	1.651	1.677	2.573	1.498	2.042	3636.3	28950.3	66000.0	2.60
4	7.53	6	0.407	0.224	1.406	0.871	4.856	2.082	4.437	5791.6	58107.0	32000.0	1.23
5	7.67	3	0.096	0.080	0.415	0.204	4.549	0.752	2.815	29667.2	64346.6	42300.0	1.38
6	13.50	2	0.014	0.057	0.422	0.849	0.214	0.636	0.063	74248.0	109088.3	46000.0	1.40
7	11.98	3	0.036	0.043	0.114	0.088	1.877	0.260	1.457	42784.5	70516.5	42500.0	1.42
8	12.42	3	0.075	0.071	0.451	0.114	2.883	1.472	1.868	15315.4	51959.1	42500.0	1.42
9	12.33	3	0.235	0.040	0.652	0.346	2.593	0.903	2.376	9761.6	36090.2	33800.0	1.50
10	12.72	3	0.096	0.123	0.375	0.781	2.457	0.438	1.682	4129.4	43559.4	33000.0	1.35
11	13.53	3	0.659	0.371	1.608	0.839	3.694	1.761	3.062	4376.0	35616.1	31000.0	1.42
12	10.45	3	0.786	0.019	2.065	0.153	4.909	2.055	4.554	679.7	34421.8	34000.0	1.51
13	10.45	3	0.130	0.068	0.350	0.114	1.528	0.169	0.777	13179.9	33015.1	41000.0	1.76
14	12.92	6	0.037	0.051	1.201	1.539	1.989	1.574	1.801	61258.5	95298.9	50000.0	1.40
15	11.08	3	0.106	0.087	0.424	0.636	0.707	0.063	0.494	34303.9	44502.1	50500.0	1.80
16	13.63	6	0.000	0.059	0.051	0.682	3.592	0.642	2.627	32663.3	36965.6	41500.0	1.87
17	10.17	6	0.226	0.108	0.698	0.382	3.673	1.222	3.255	12614.5	38626.7	41500.0	1.61
18	10.50	6	0.075	0.057	0.487	0.233	2.509	0.516	1.851	62130.1	58816.5	53000.0	1.82
19	10.67	6	0.266	0.160	1.121	1.192	3.282	1.367	2.696	30107.7	34212.1	60000.0	2.31
20	10.50	6	0.062	0.083	0.306	0.403	1.822	0.541	1.291	36435.2	47650.3	54000.0	1.79
21	13.25	6	0.129	0.151	0.645	0.602	2.887	0.783	2.036	0.0	30380.0	65500.0	2.48
22	14.00	3	0.238	0.231	0.606	0.210	3.387	1.097	2.873	14098.4	31779.2	30500.0	1.55
23	9.30	3	0.185	0.321	0.503	0.436	3.717	1.494	3.338	44863.5	109830.6	38000.0	1.25
24	10.47	3	0.060	0.232	0.777	1.873	0.953	1.561	0.908	8382.3	39292.3	37000.0	1.50
25	10.47	3	0.084	0.079	0.323	0.284	2.008	0.348	1.649	31396.4	29518.4	70000.0	2.90
26	7.83	6	0.082	0.079	0.323	0.418	2.714	0.063	1.477	10303.2	26985.1	70000.0	2.92
27	11.88	6	0.153	0.286	0.669	0.937	2.711	0.880	2.043	42966.2	31445.0	69800.0	2.91
28	11.67	6	0.601	0.070	1.581	0.445	4.289	1.060	3.555	41697.9	45253.1	44900.0	1.80
29	15.53	3	0.312	0.105	0.888	0.204	0.750	1.647	2.715	12345.6	39728.2	66000.0	2.05
30	10.50	6	0.082	0.082	0.361	0.339	1.818	0.912	1.570	4336.5	33788.5	45100.0	1.78
31	10.25	3	0.143	0.193	0.729	0.051	2.635	0.435	1.277	20803.9	35615.2	41000.0	1.75
32	12.17	6	0.266	0.193	0.885	0.210	0.984	0.855	0.907	1617.5	30478.8	42000.0	1.82
33	10.88	3	0.103	0.114	0.506	0.737	1.319	0.537	0.686	6830.5	107588.3	41000.0	1.17
34	10.25	4	0.143	0.076	0.667	0.306	4.085	0.951	3.126	11649.8	110456.8	40000.0	1.17
35	10.25	3	0.078	0.052	0.445	0.331	1.547	0.451	1.282	3738.2	30366.6	66000.0	2.74
36	12.17	3	0.191	0.037	0.808	0.198	5.243	1.068	4.165	9039.8	27905.4	70300.0	2.84
37	12.17	6	0.107	0.187	0.534	0.492	3.135	0.448	2.211	3855.9	27717.3	70300.0	2.84
38	10.88	3	0.161	0.027	0.492	0.153	1.652	0.350	0.363	30342.2	43183.1	51000.0	1.80

33	10.88	6	0.038	0.154	0.158	1.056	2.089	1.125	0.805	1933.7	37020.1	51000.0	1.80
34	11.62	3	0.312	0.150	0.888	0.633	3.002	2.055	3.436	45073.2	59818.1	44000.0	1.56
34	11.62	6	0.192	0.097	0.928	0.472	1.372	0.562	0.935	12424.4	42893.0	44000.0	1.56
34	11.87	3	0.050	0.085	0.250	0.702	9.307	0.402	5.755	49614.0	83739.4	36400.0	1.36
34	11.87	6	0.116	0.070	0.771	0.525	1.842	1.147	2.097	46177.4	79606.8	36400.0	1.36
35	11.63	6	0.171	0.198	0.496	0.714	1.385	1.566	1.775	3011.4	48586.6	52000.0	1.55
36	16.77	6	0.296	0.250	1.647	1.592	2.059	1.915	2.294	29468.5	32027.1	53000.0	2.26
37	12.92	3	0.208	0.124	0.677	0.402	1.305	2.023	2.285	70589.5	51856.5	64000.0	2.20
37	12.92	5	0.127	0.029	1.074	0.420	1.159	1.886	1.779	14429.3	35416.2	64000.0	2.20
38	10.32	3	0.097	0.038	0.405	0.270	4.779	0.458	3.656	3744.8	64628.0	44300.0	1.30
39	12.67	7	0.520	0.209	1.973	0.785	4.854	2.581	4.760	25729.4	86275.2	39800.0	1.24
40	0.00	15	0.359	0.252	1.225	0.883	2.616	1.684	2.534	25729.4	86275.2	39800.0	1.24
41	0.00	16	0.149	0.073	0.700	0.375	2.785	1.245	2.532	6000.0	0.0	52900.0	1.81
42	0.00	16	0.468	0.162	1.121	0.375	4.227	2.186	4.003	70.0	0.0	72000.0	2.83

XB-70 MEASURED DATA vs MDBOOM CALCULATED DATA

All days
Alt(ft) 66K - 72K
Mach# 2.6 - 2.92

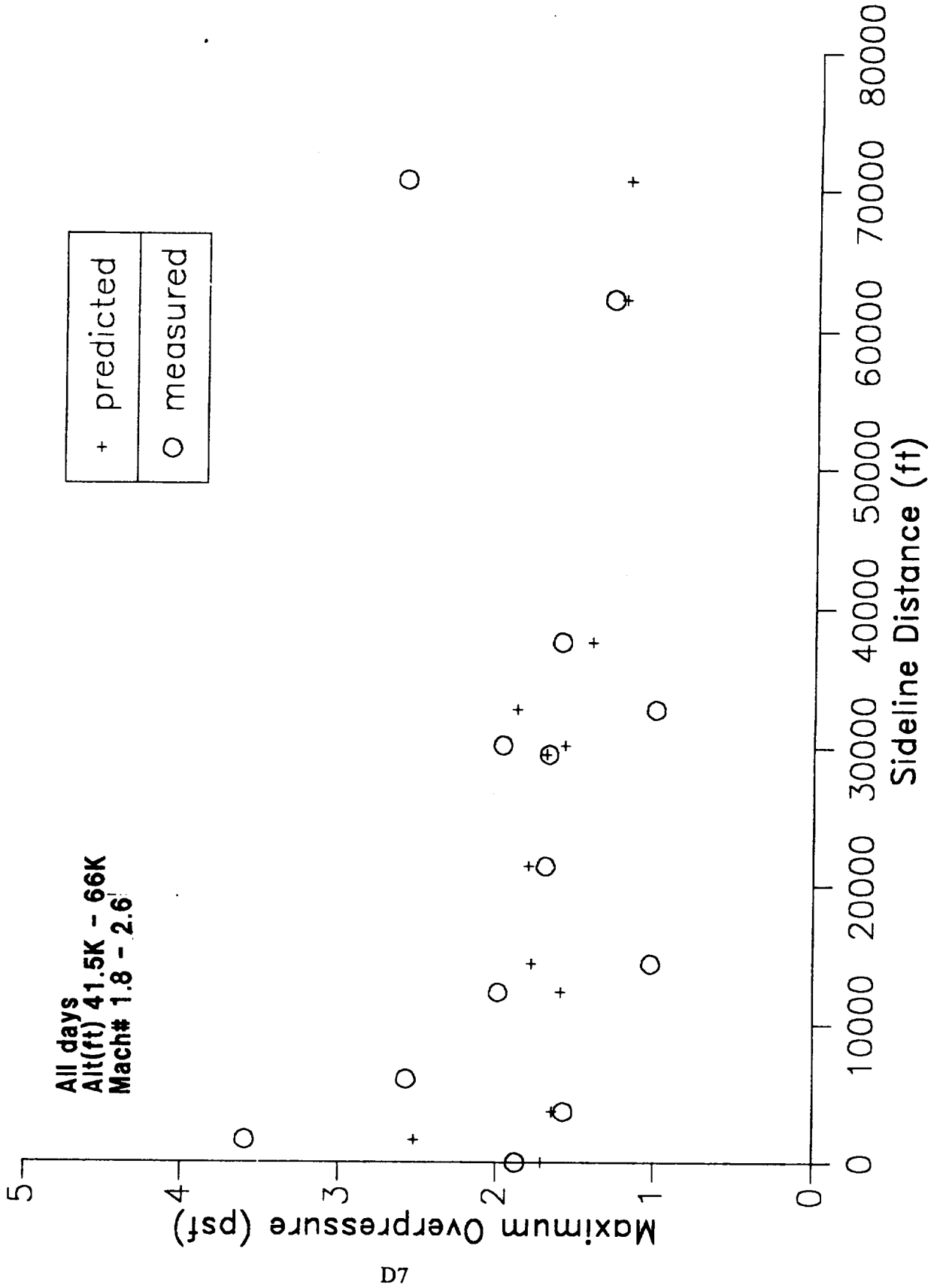
+	predicted
o	measured



XB-70 MEASURED DATA vs MDBOOM CALCULATED DATA

All days
Alt(ft) 41.5K - 66K
Mach# 1.8 - 2.6

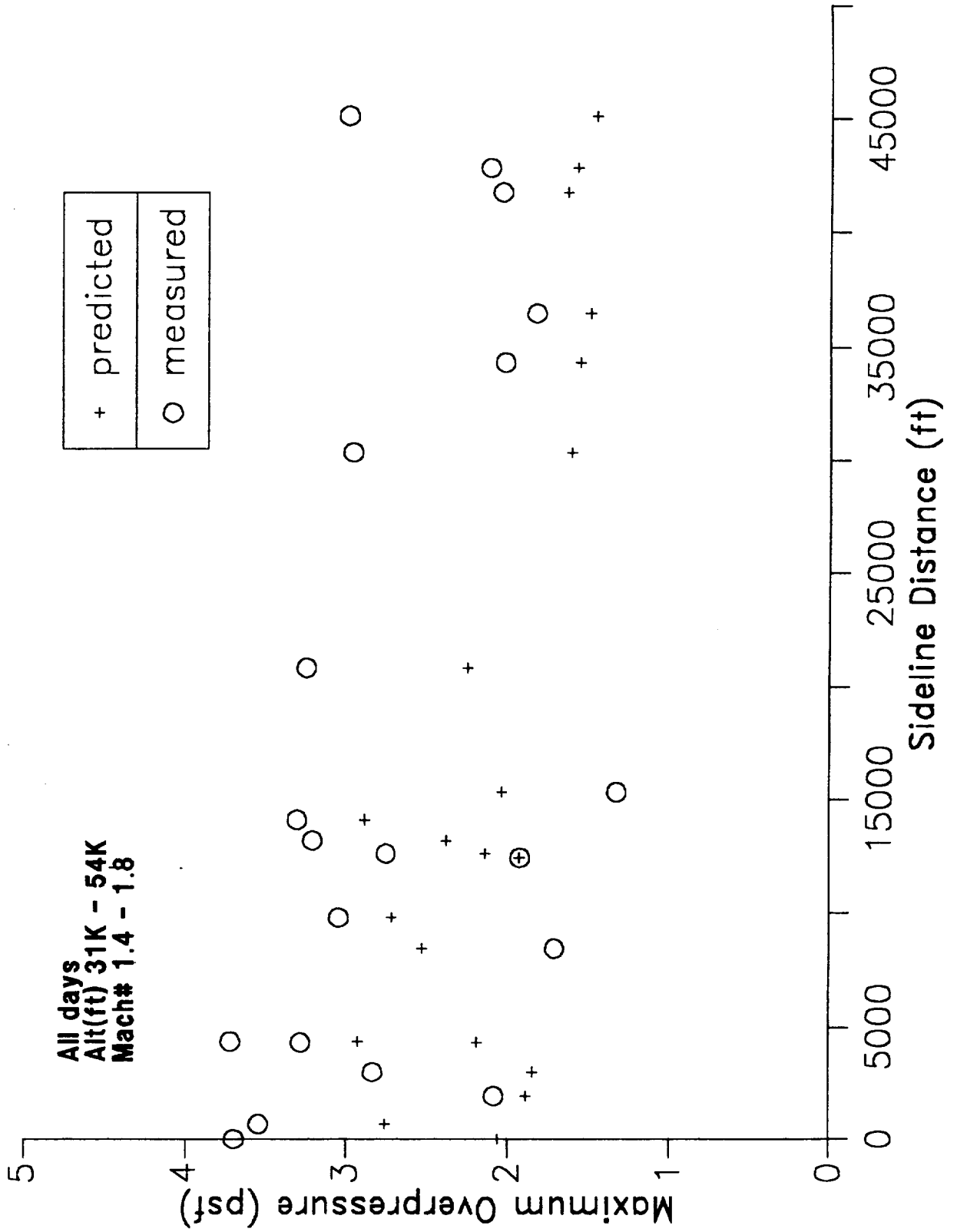
+	predicted
○	measured



XB-70 MEASURED DATA VS MDBOOM CALCULATED DATA

All days
Alt(ft) 31K - 54K
Mach# 1.4 - 1.8

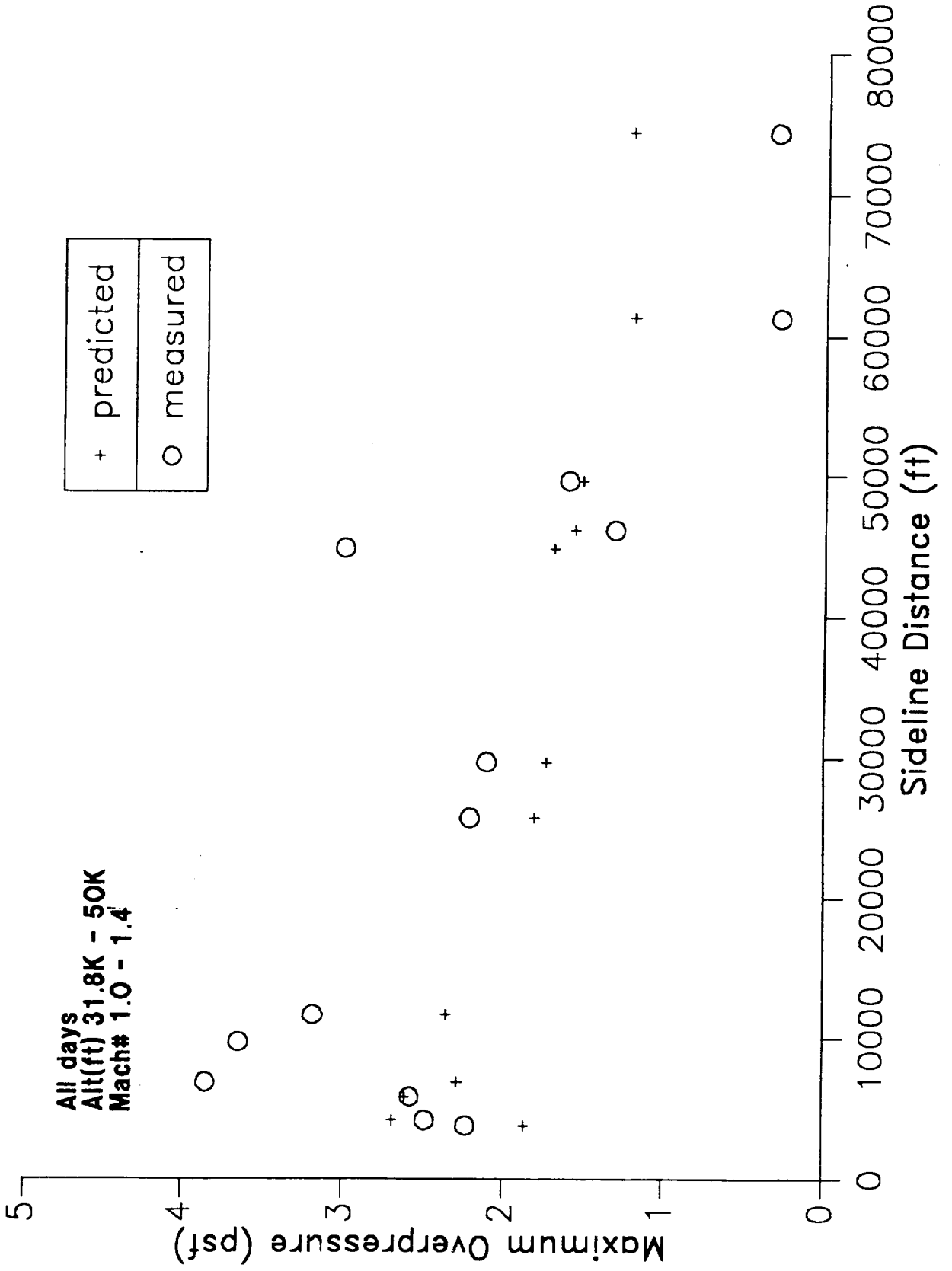
+	predicted
○	measured



XB-70 MEASURED DATA vs MDBOOM CALCULATED DATA

All days
Alt(ft) 31.8K - 50K
Mach# 1.0 - 1.4

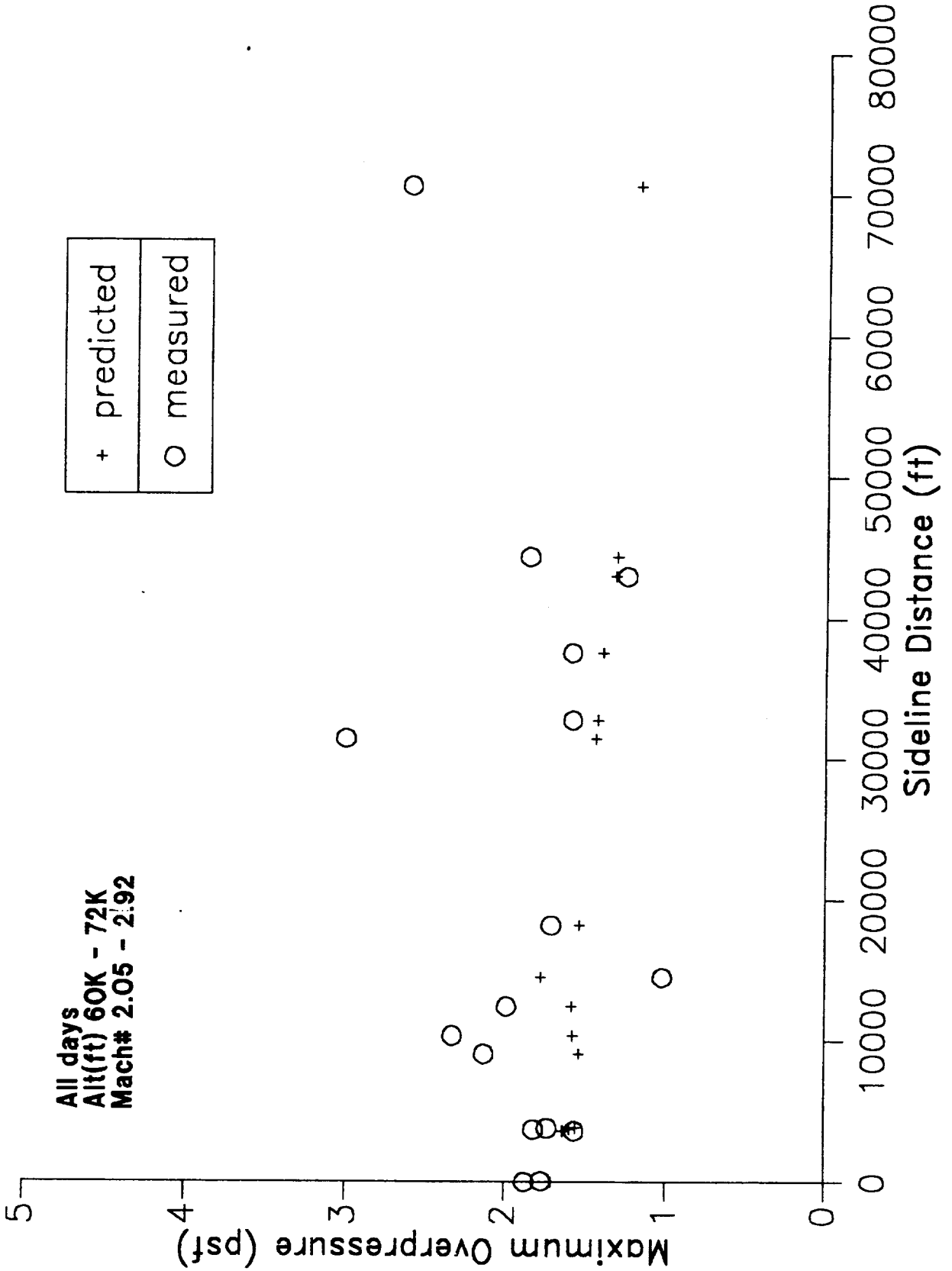
+	predicted
○	measured



XB-70 MEASURED DATA vs MDBOOM CALCULATED DATA

All days
Alt(ft) 60K - 72K
Mach# 2.05 - 2.92

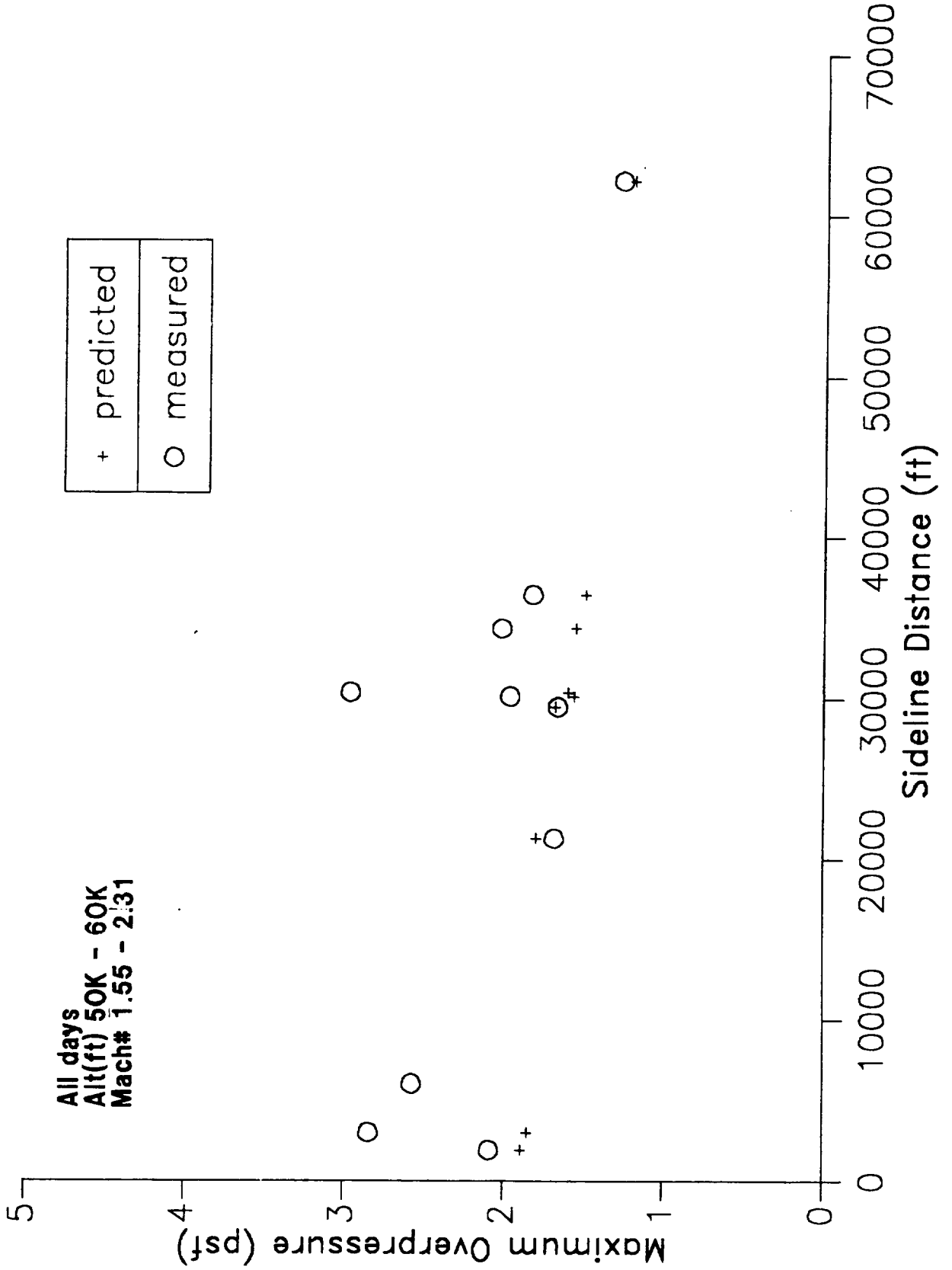
+	predicted
○	measured



XB-70 MEASURED DATA vs MDBOOM CALCULATED DATA

All days
Alt(ft) 50K - 60K
Mach# 1.55 - 2.31

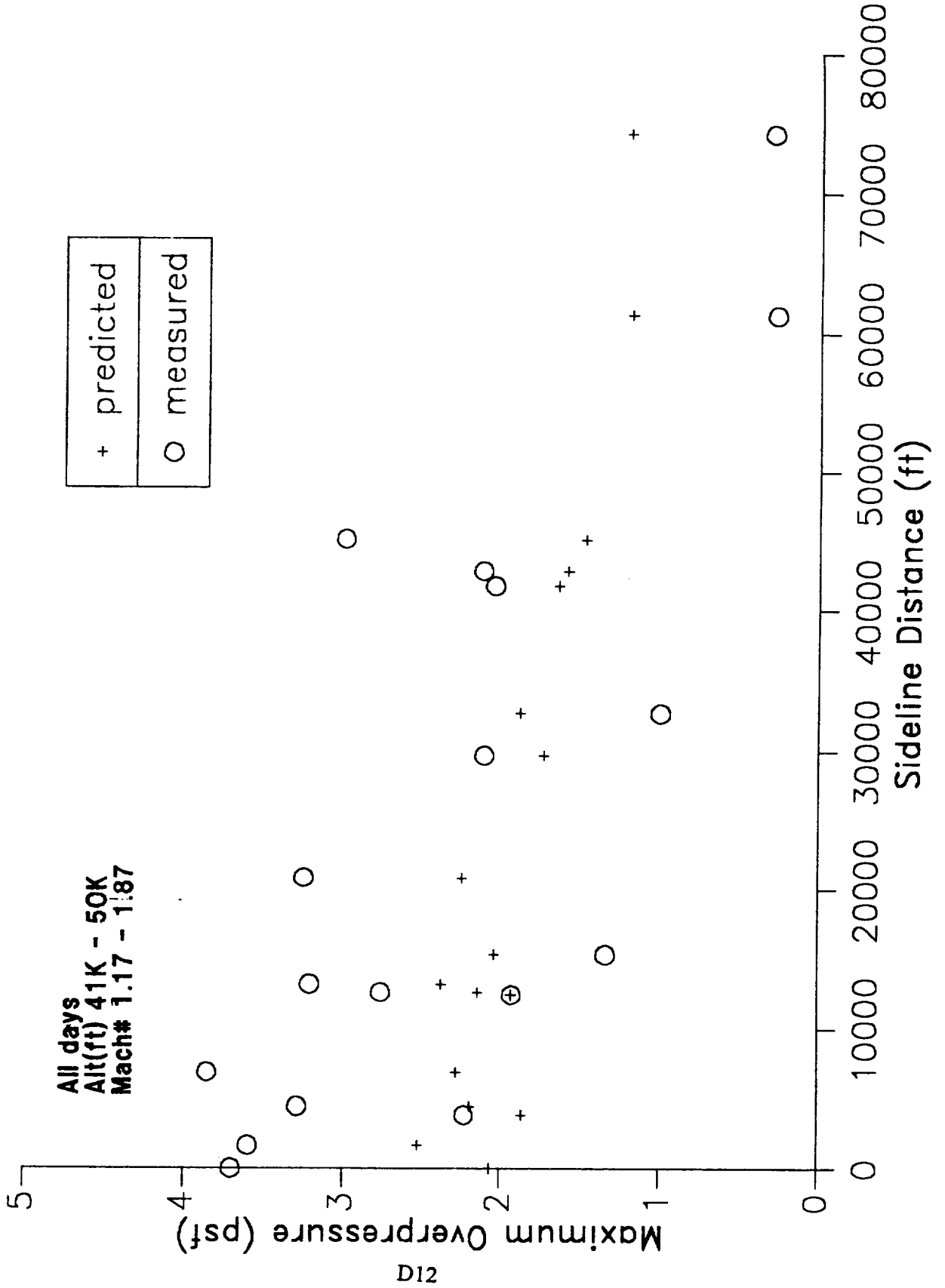
+	predicted
○	measured



XB-70 MEASURED DATA vs MDBOOM CALCULATED DATA

All days
Alt(ft) 41K - 50K
Mach# 1.17 - 1.87

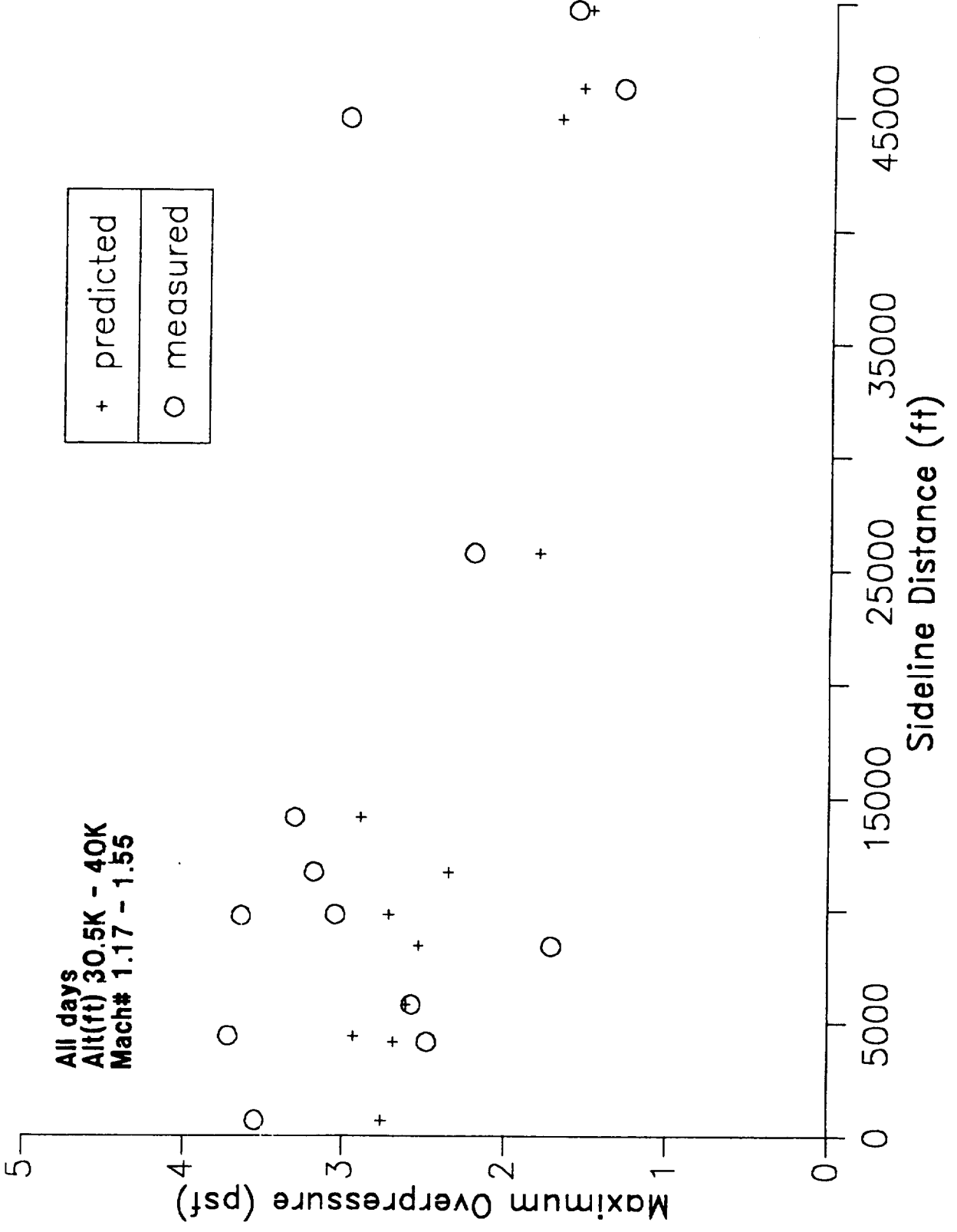
+	predicted
○	measured



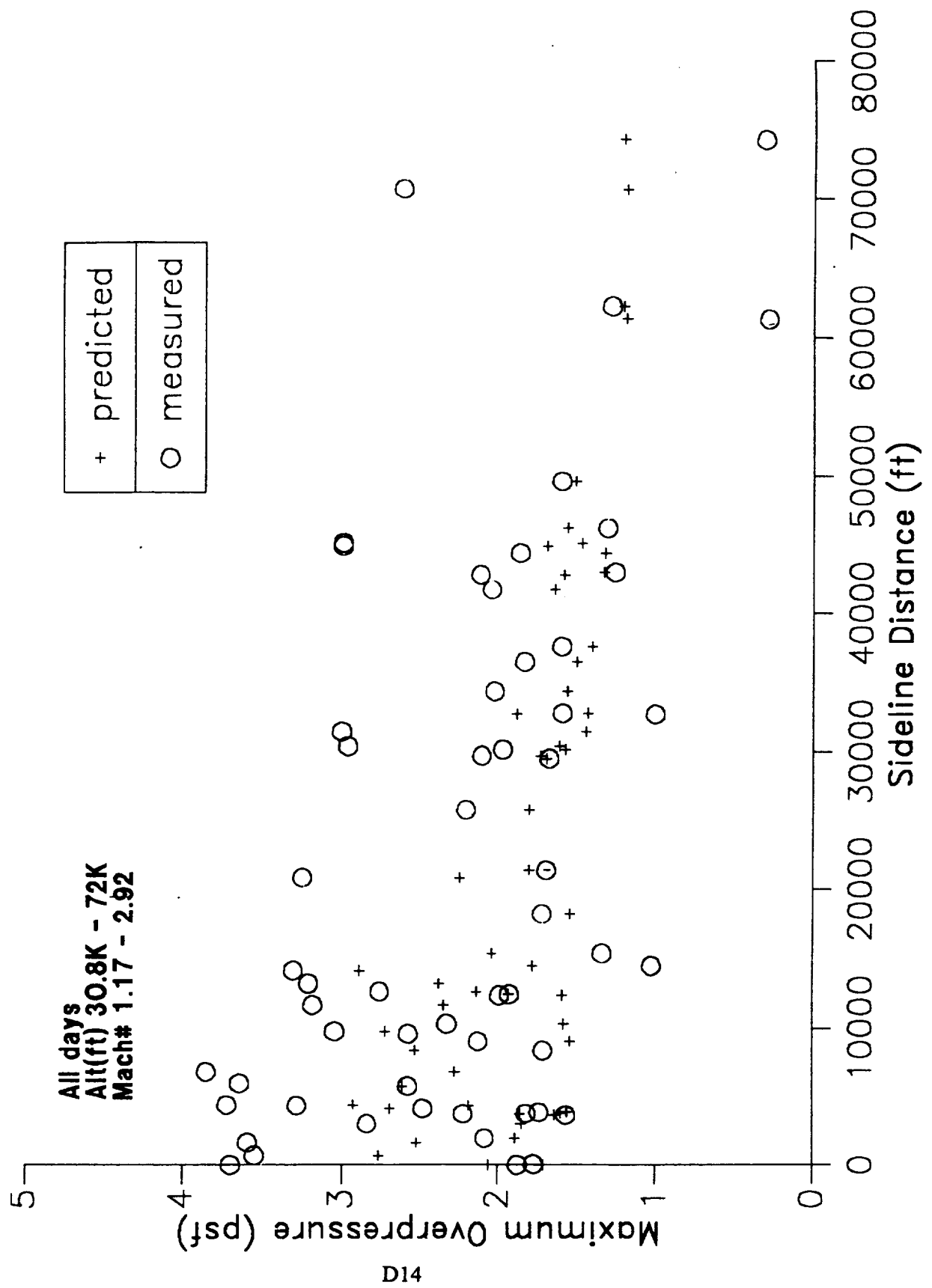
XB-70 MEASURED DATA vs MDBOOM CALCULATED DATA

All days
Alt(ft) 30.5K - 40K
Mach# 1.17 - 1.55

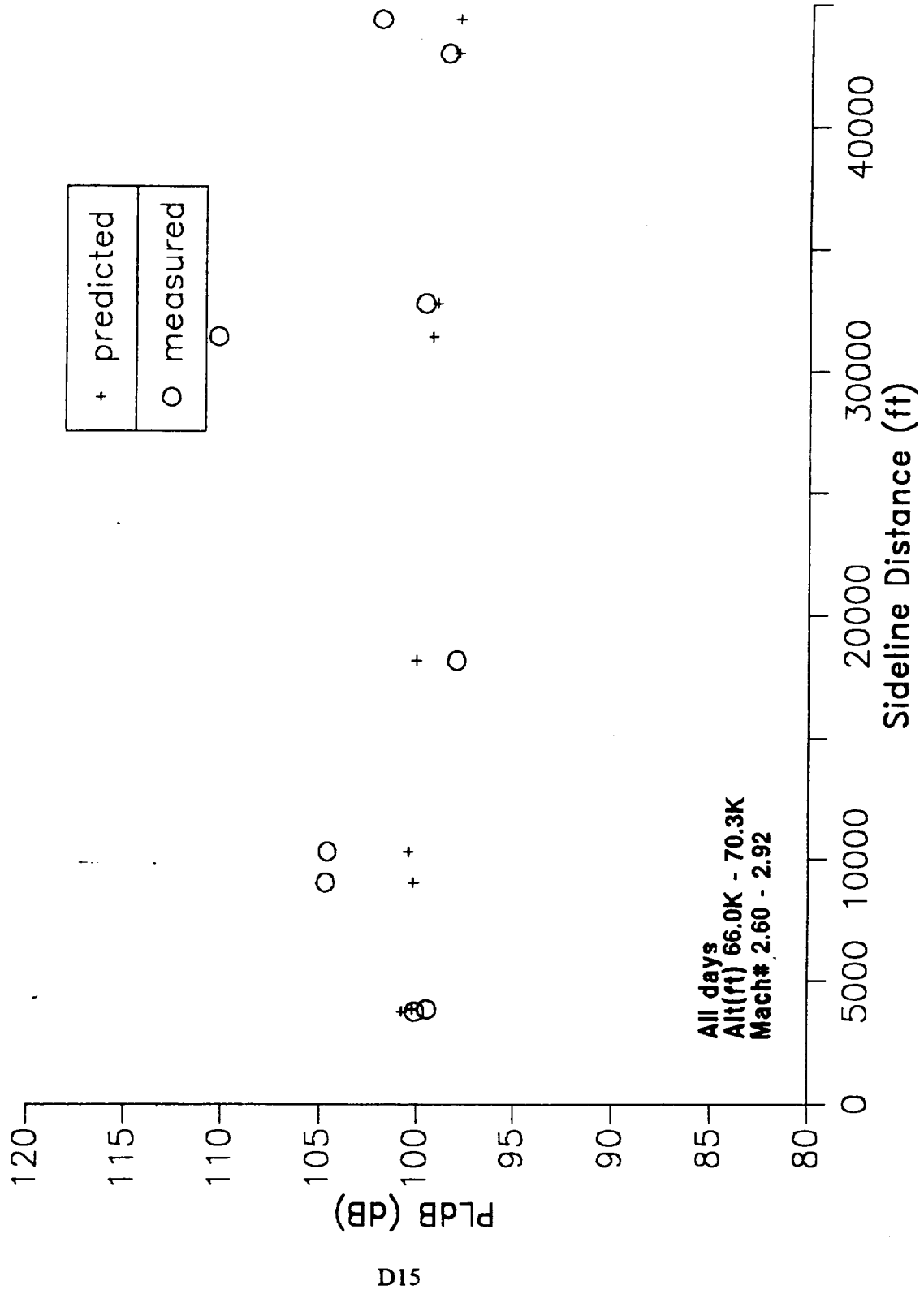
+	predicted
○	measured



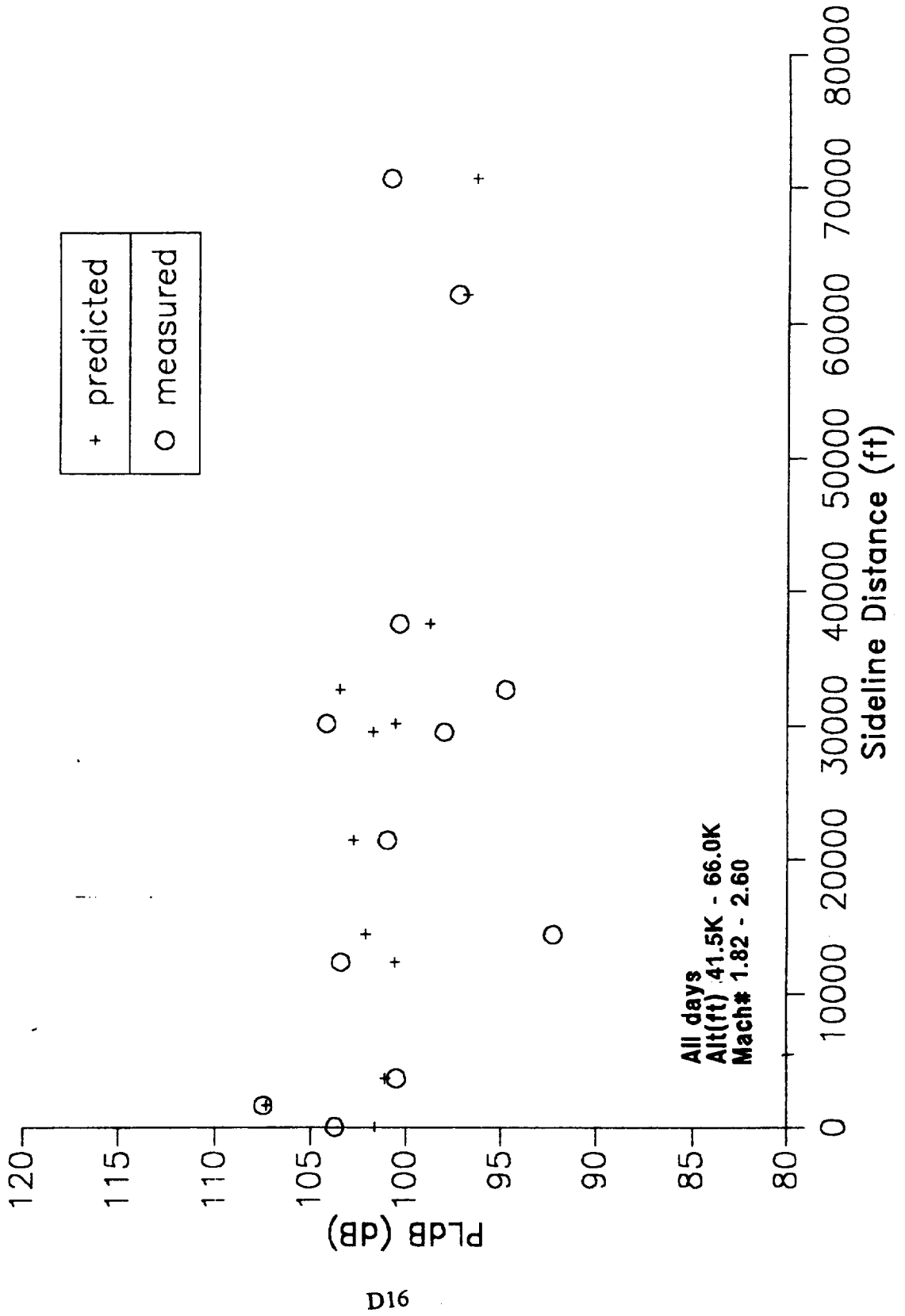
XB-70 Log Average of Microphone Clusters



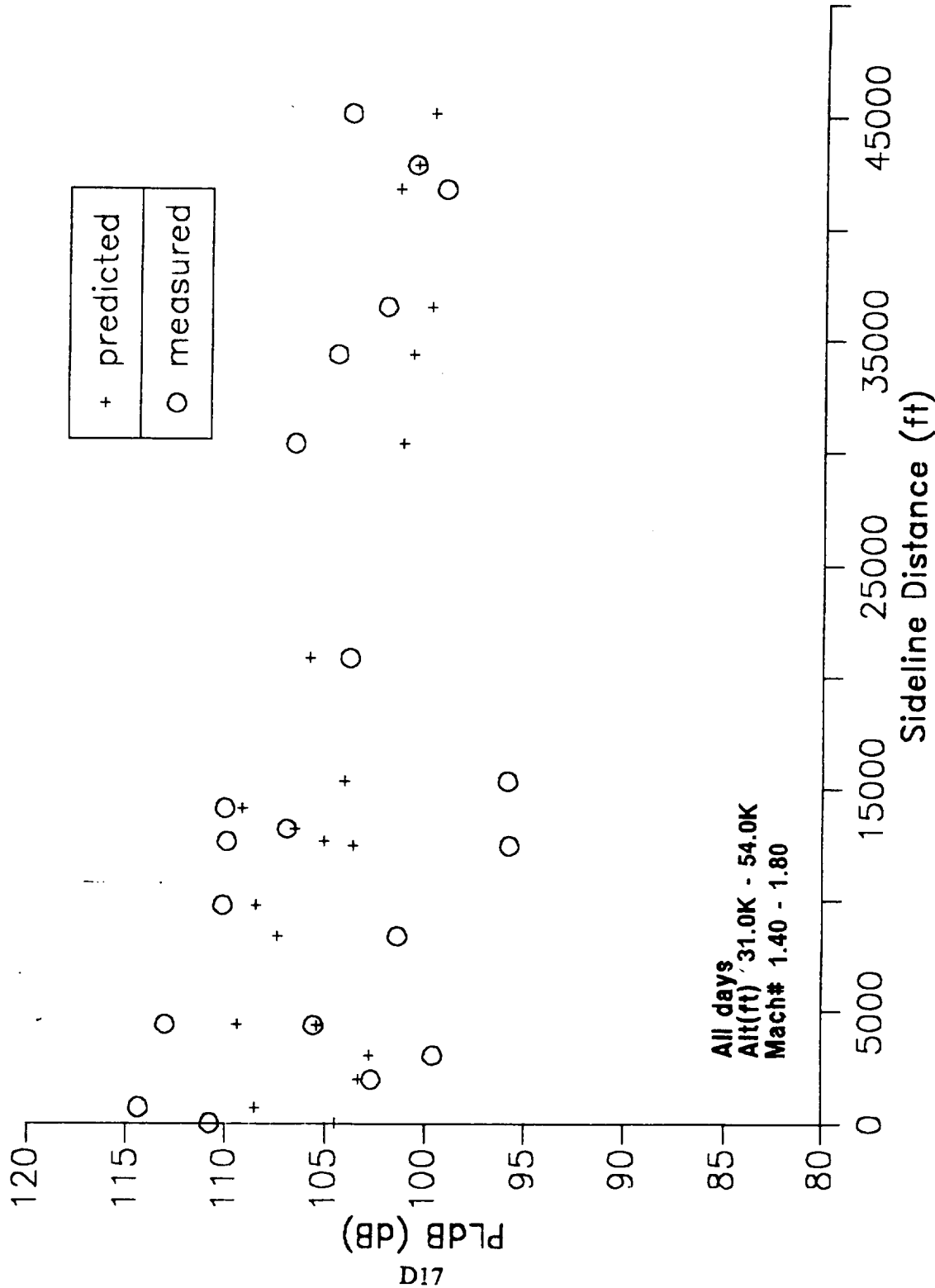
XB-70 Log Average of Microphone Clusters



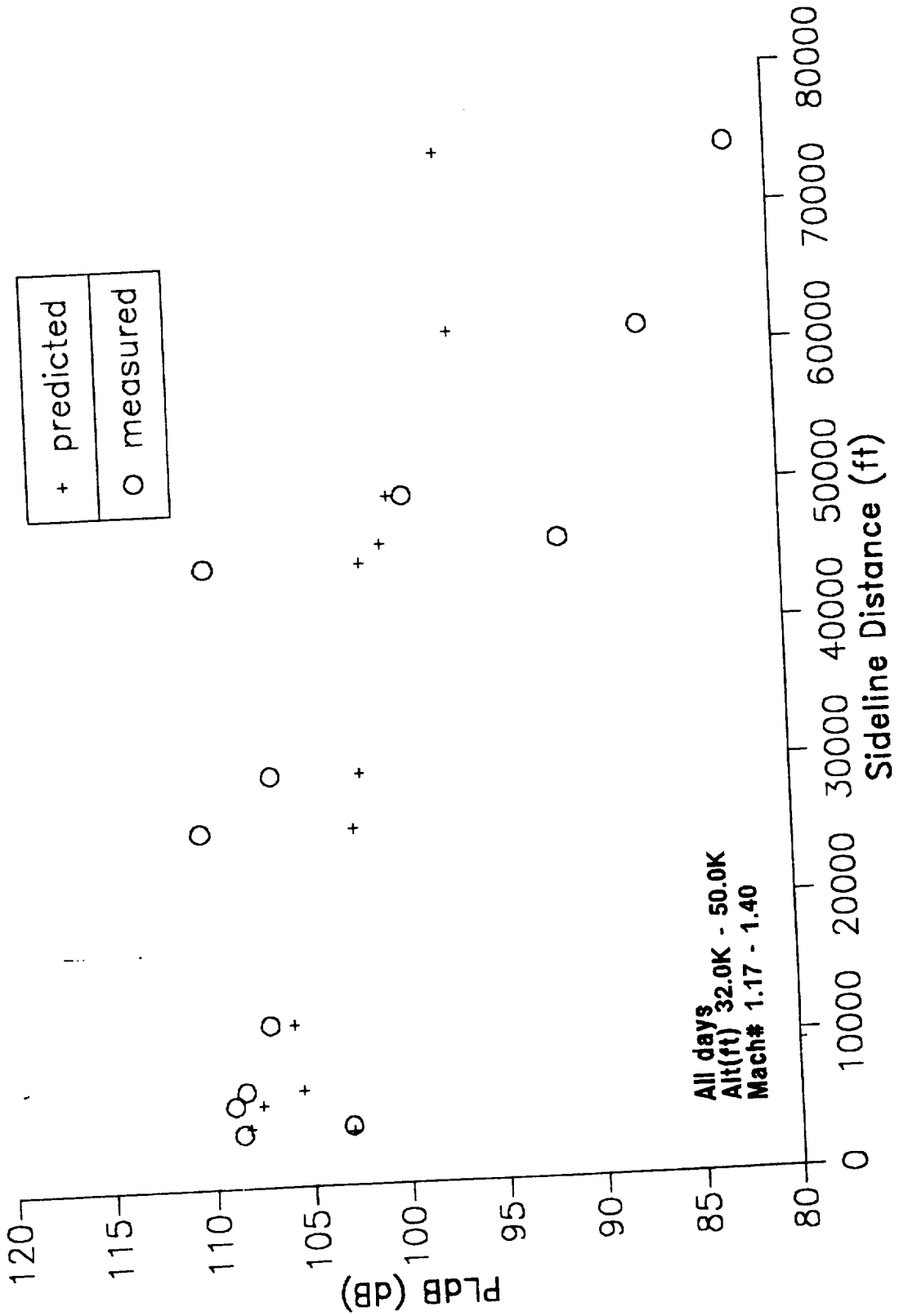
XB-70 Log Average of Microphone Clusters



XB-70 Log Average of Microphone Clusters



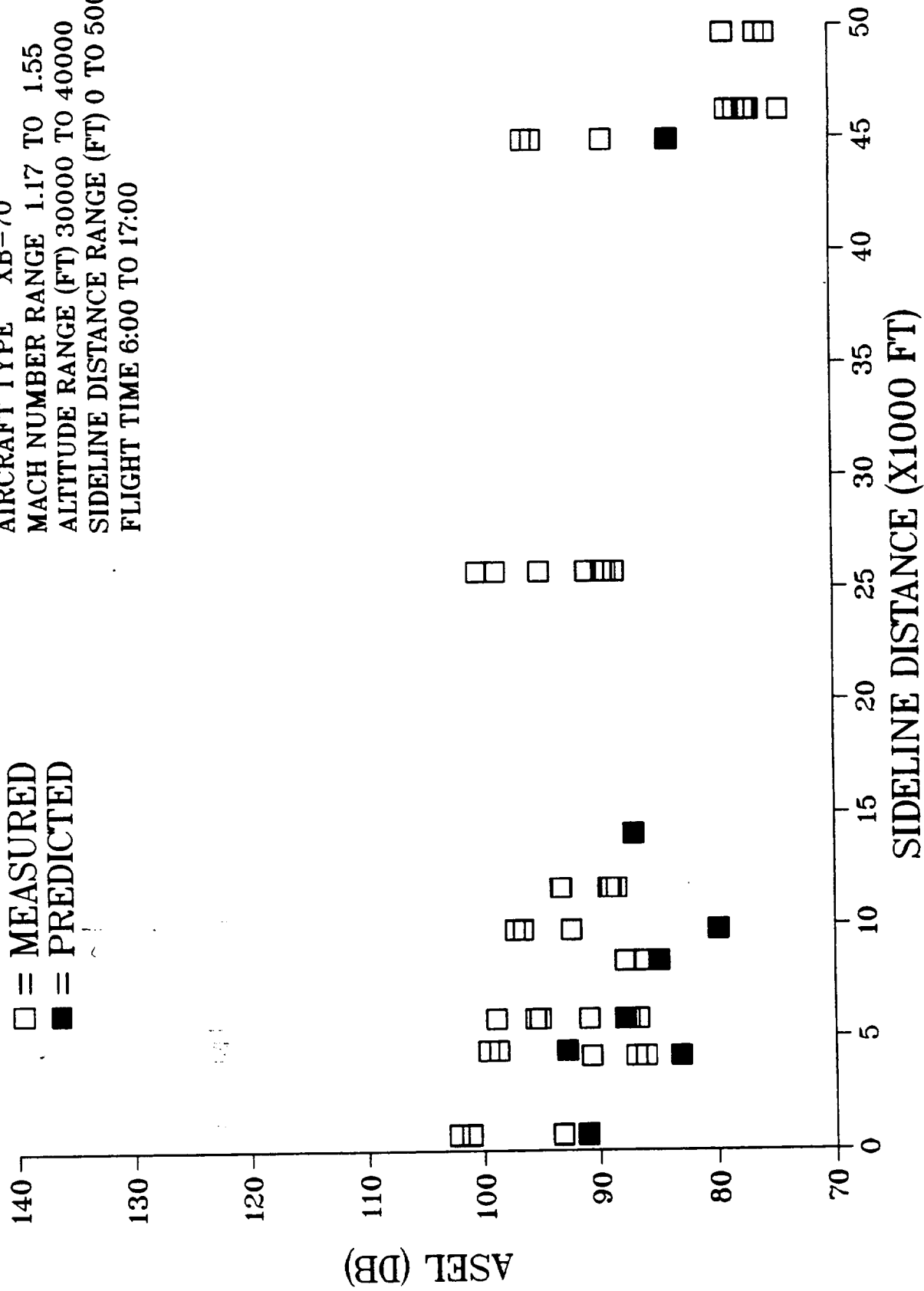
XB-70 Log Average of Microphone Clusters



XB-70 DATABASE

AIRCRAFT TYPE XB-70
MACH NUMBER RANGE 1.17 TO 1.55
ALTITUDE RANGE (FT) 30000 TO 40000
SIDELINE DISTANCE RANGE (FT) 0 TO 50000
FLIGHT TIME 6:00 TO 17:00

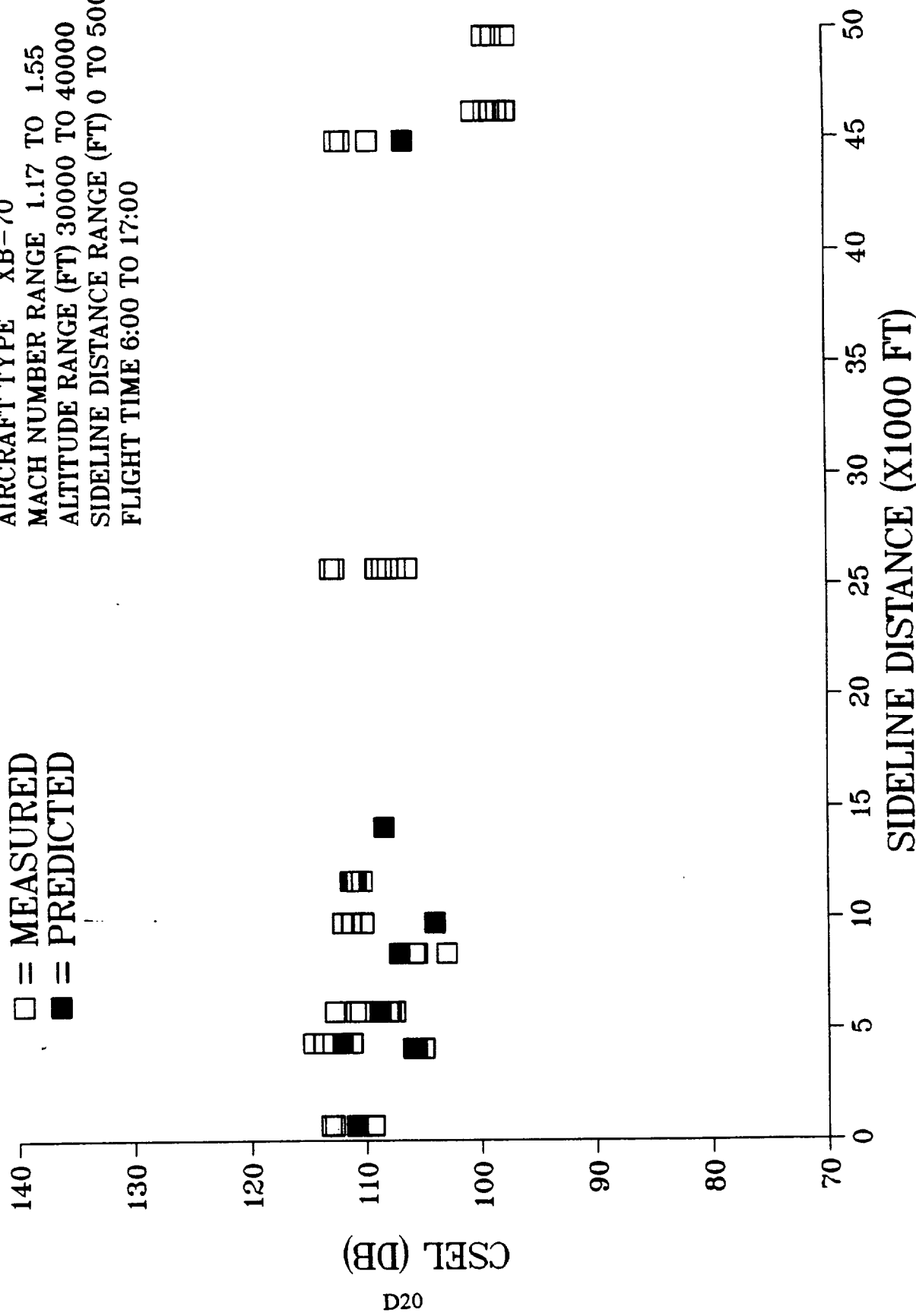
□ = MEASURED
■ = PREDICTED



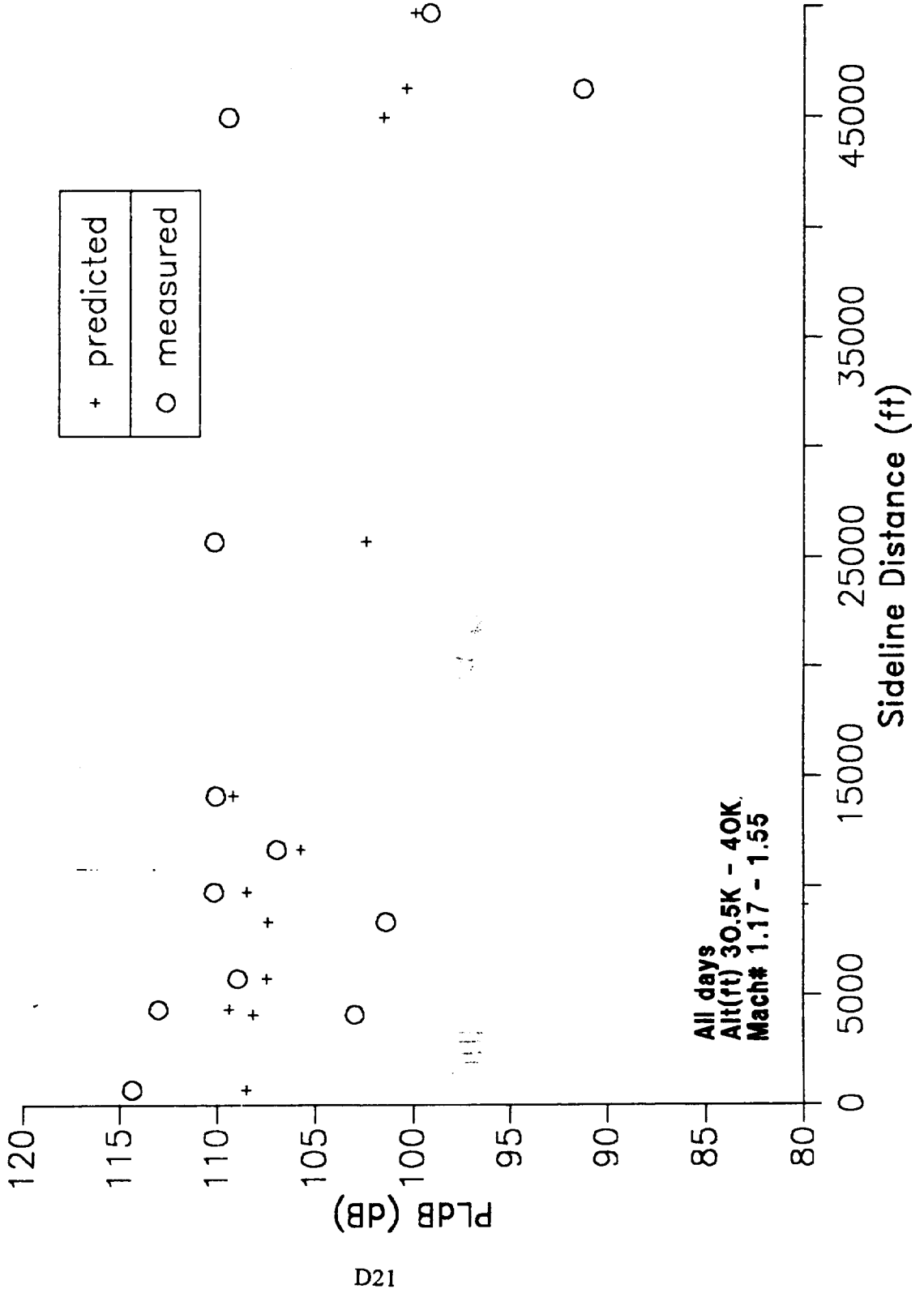
XB-70 DATABASE

AIRCRAFT TYPE XB-70
 MACH NUMBER RANGE 1.17 TO 1.55
 ALTITUDE RANGE (FT) 30000 TO 40000
 SIDELINE DISTANCE RANGE (FT) 0 TO 50000
 FLIGHT TIME 6:00 TO 17:00

□ = MEASURED
 ■ = PREDICTED



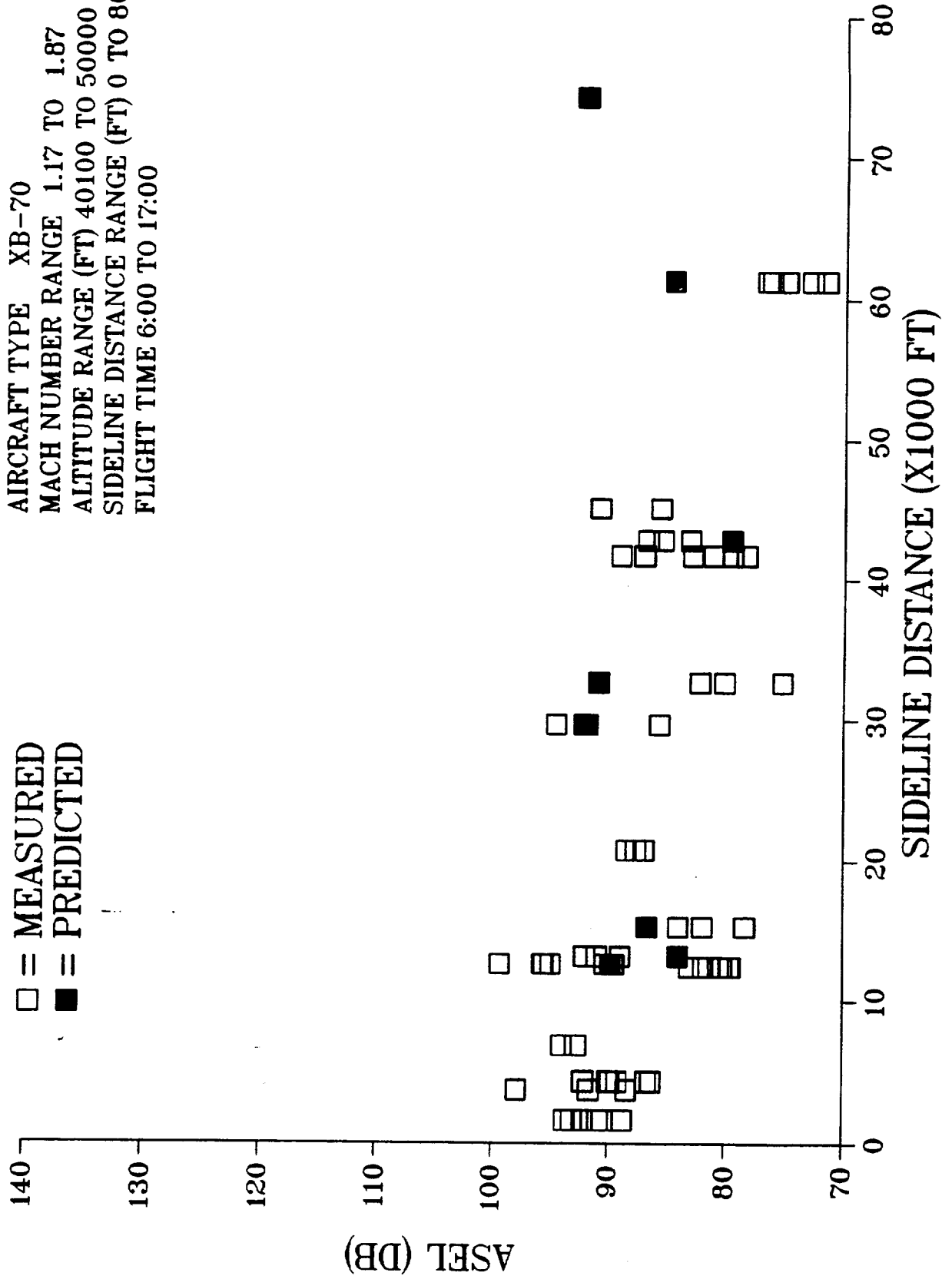
XB-70 Log Average of Microphone Clusters



XB-70 DATABASE

□ = MEASURED
■ = PREDICTED

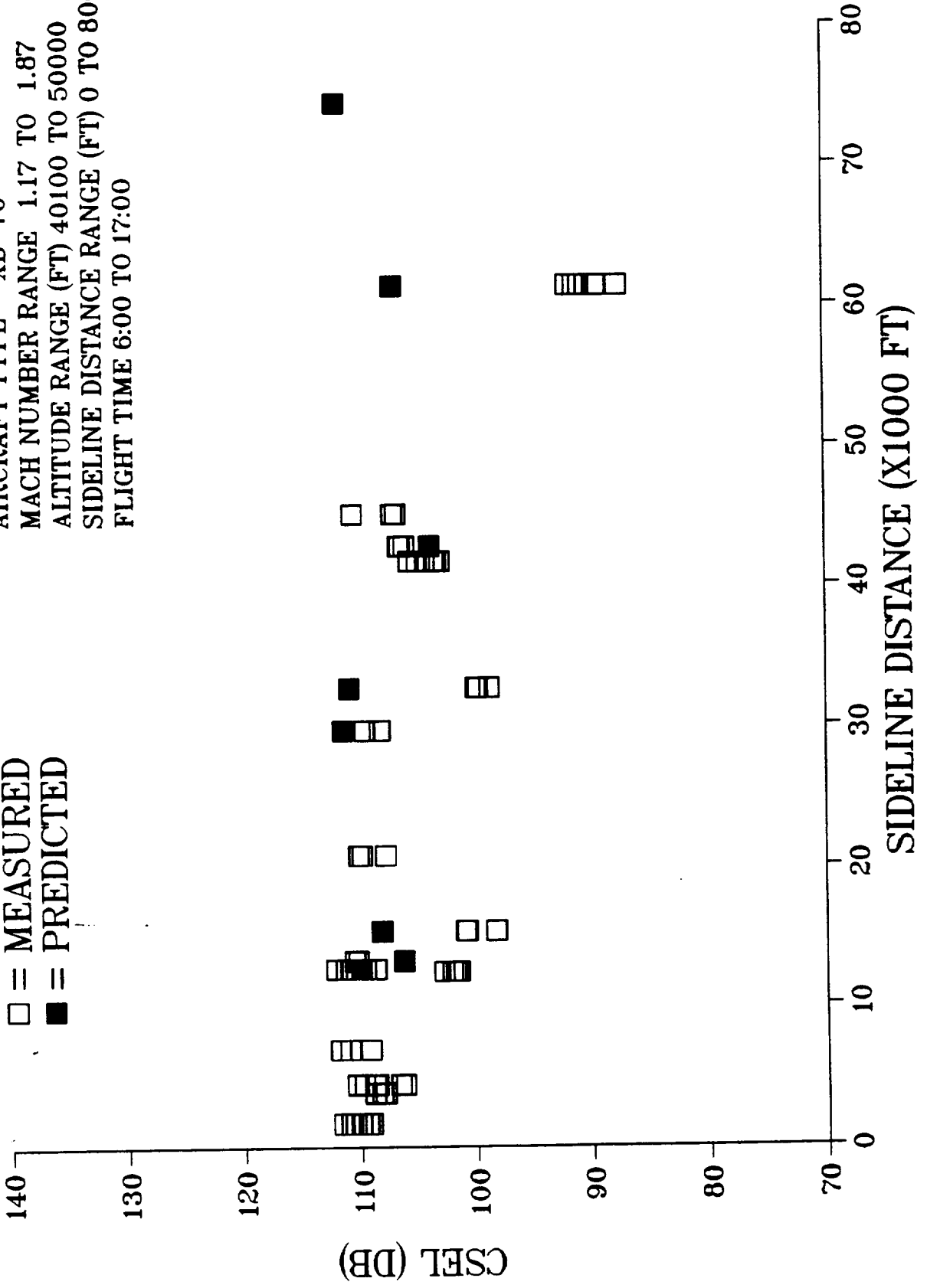
AIRCRAFT TYPE XB-70
MACH NUMBER RANGE 1.17 TO 1.87
ALTITUDE RANGE (FT) 40100 TO 50000
SIDELINE DISTANCE RANGE (FT) 0 TO 80000
FLIGHT TIME 6:00 TO 17:00



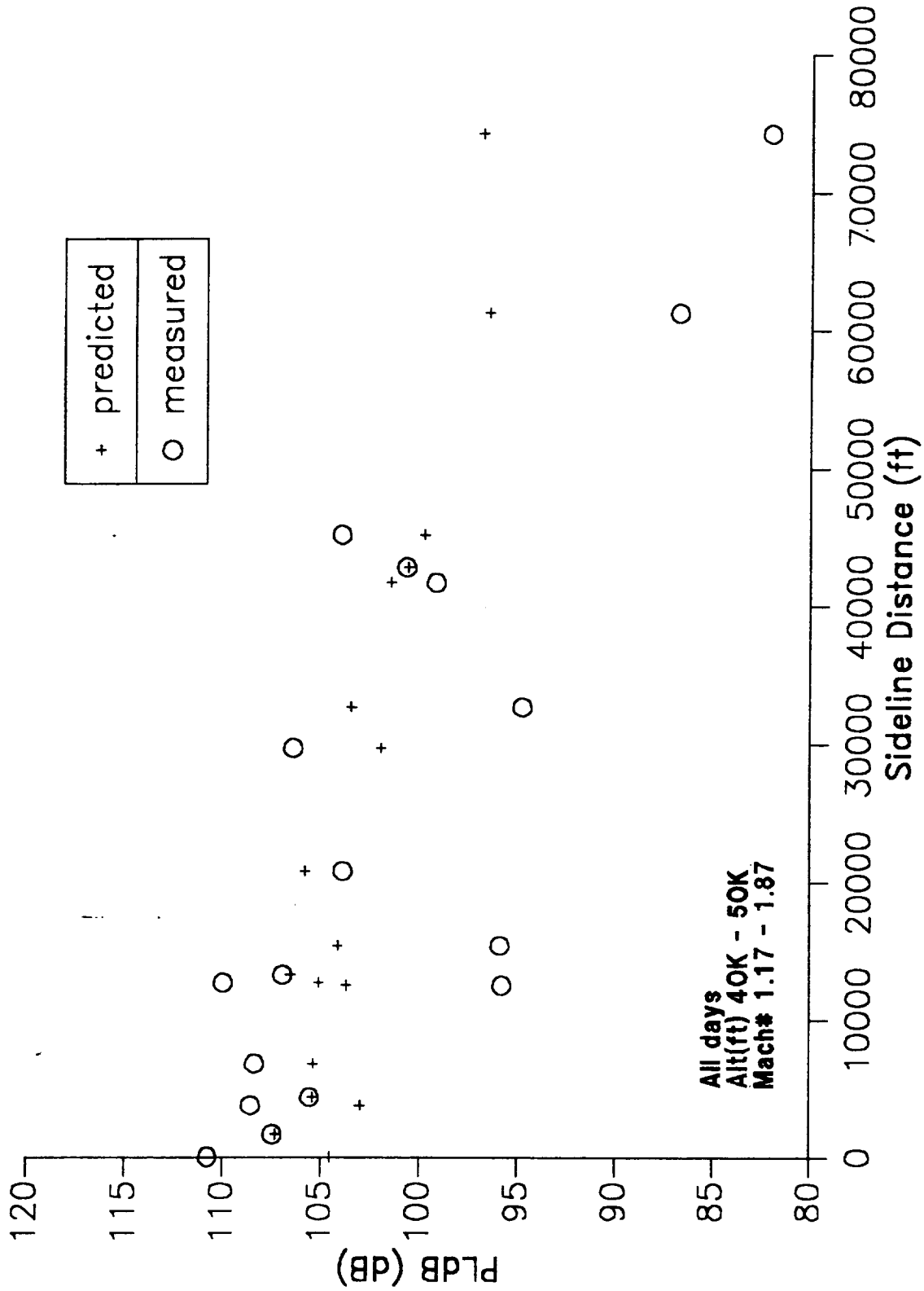
XB-70 DATABASE

AIRCRAFT TYPE XB-70
MACH NUMBER RANGE 1.17 TO 1.87
ALTITUDE RANGE (FT) 40100 TO 50000
SIDELINE DISTANCE RANGE (FT) 0 TO 80000
FLIGHT TIME 6:00 TO 17:00

□ = MEASURED
■ = PREDICTED



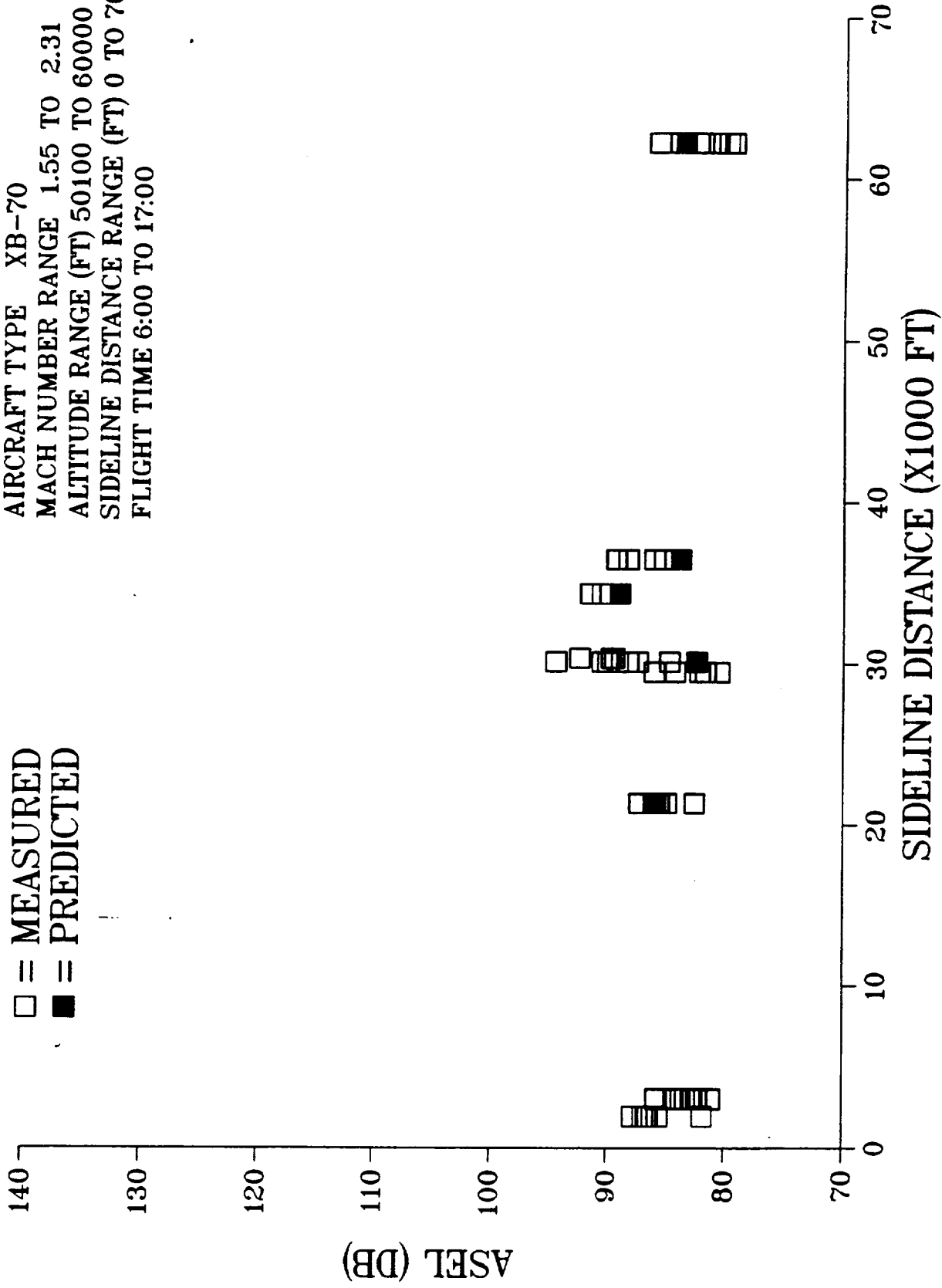
XB-70 Log Average of Microphone Clusters



XB-70 DATABASE

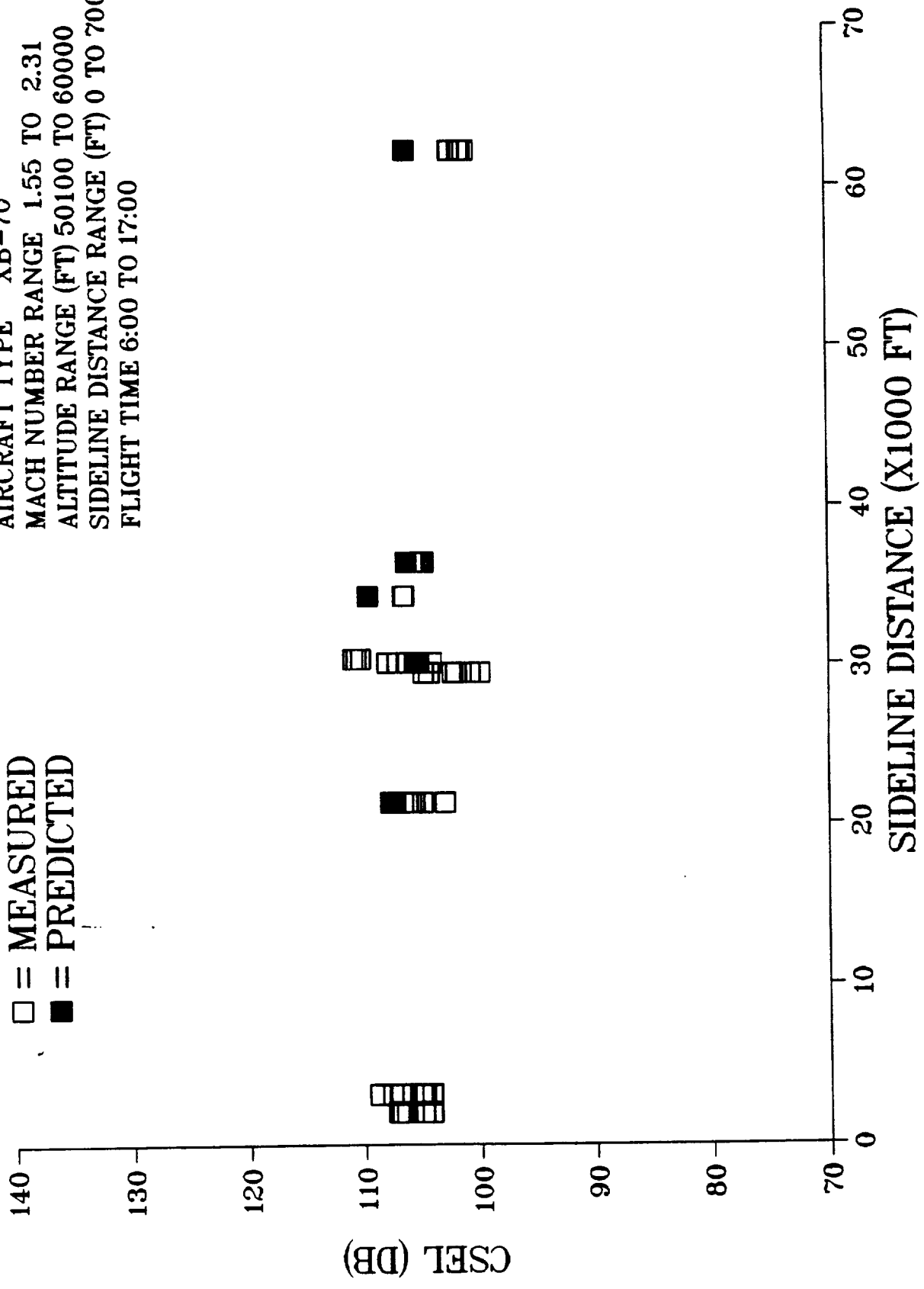
□ = MEASURED
■ = PREDICTED

AIRCRAFT TYPE XB-70
MACH NUMBER RANGE 1.55 TO 2.31
ALTITUDE RANGE (FT) 50100 TO 60000
SIDELINE DISTANCE RANGE (FT) 0 TO 70000
FLIGHT TIME 6:00 TO 17:00

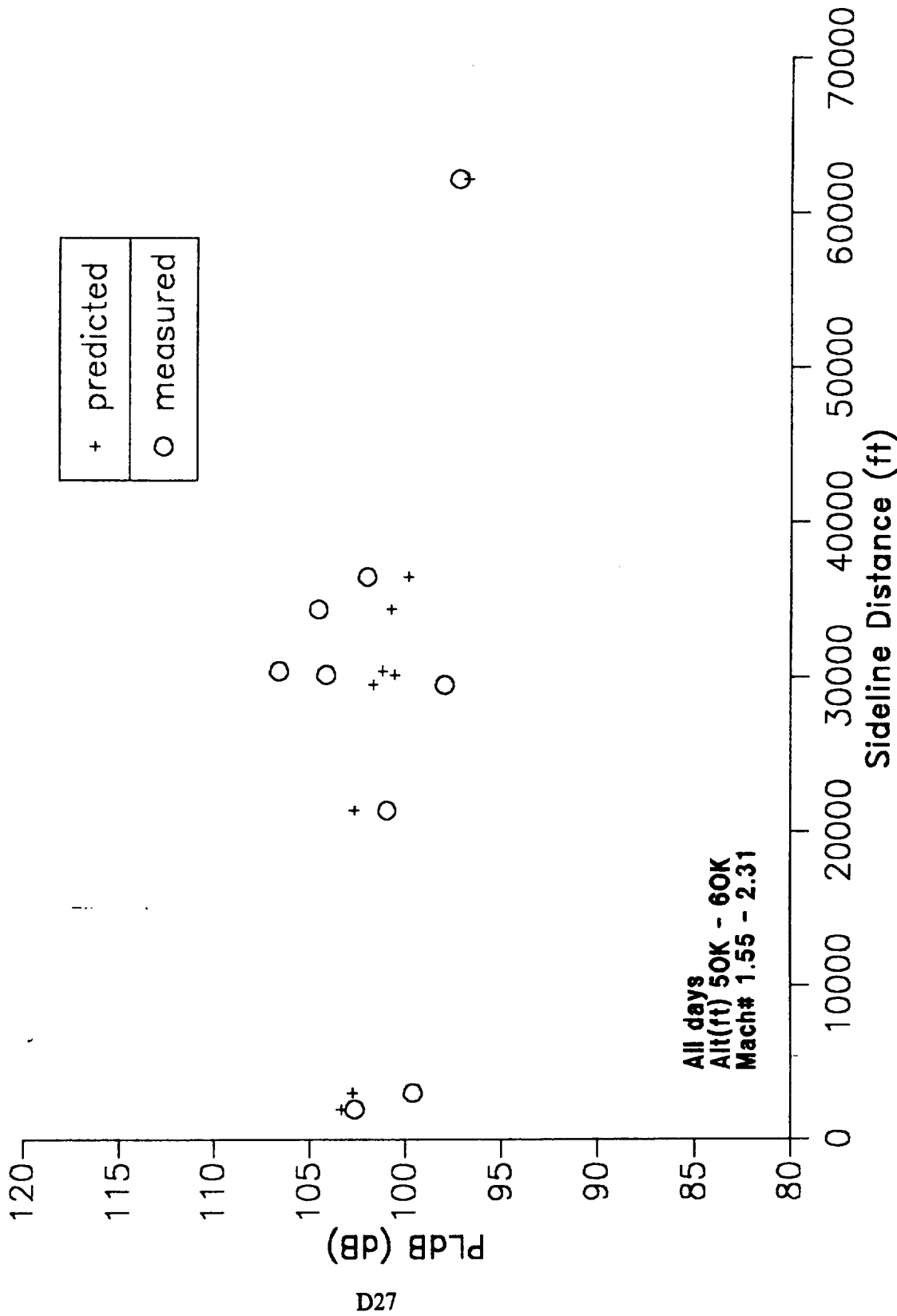


AIRCRAFT TYPE XB-70
 MACH NUMBER RANGE 1.55 TO 2.31
 ALTITUDE RANGE (FT) 50100 TO 60000
 SIDELINE DISTANCE RANGE (FT) 0 TO 70000
 FLIGHT TIME 6:00 TO 17:00

□ = MEASURED
 ■ = PREDICTED

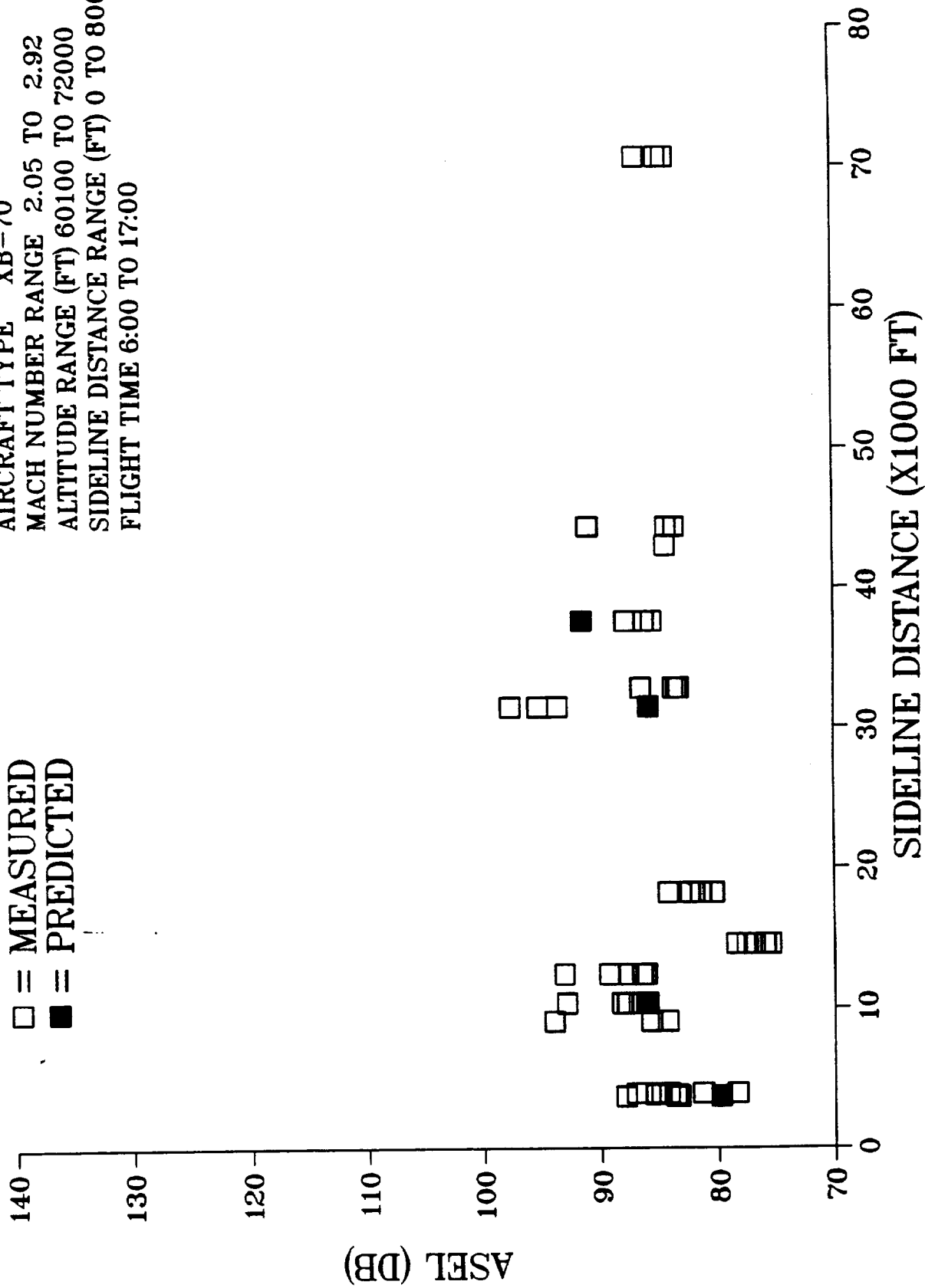


XB-70 Log Average of Microphone Clusters

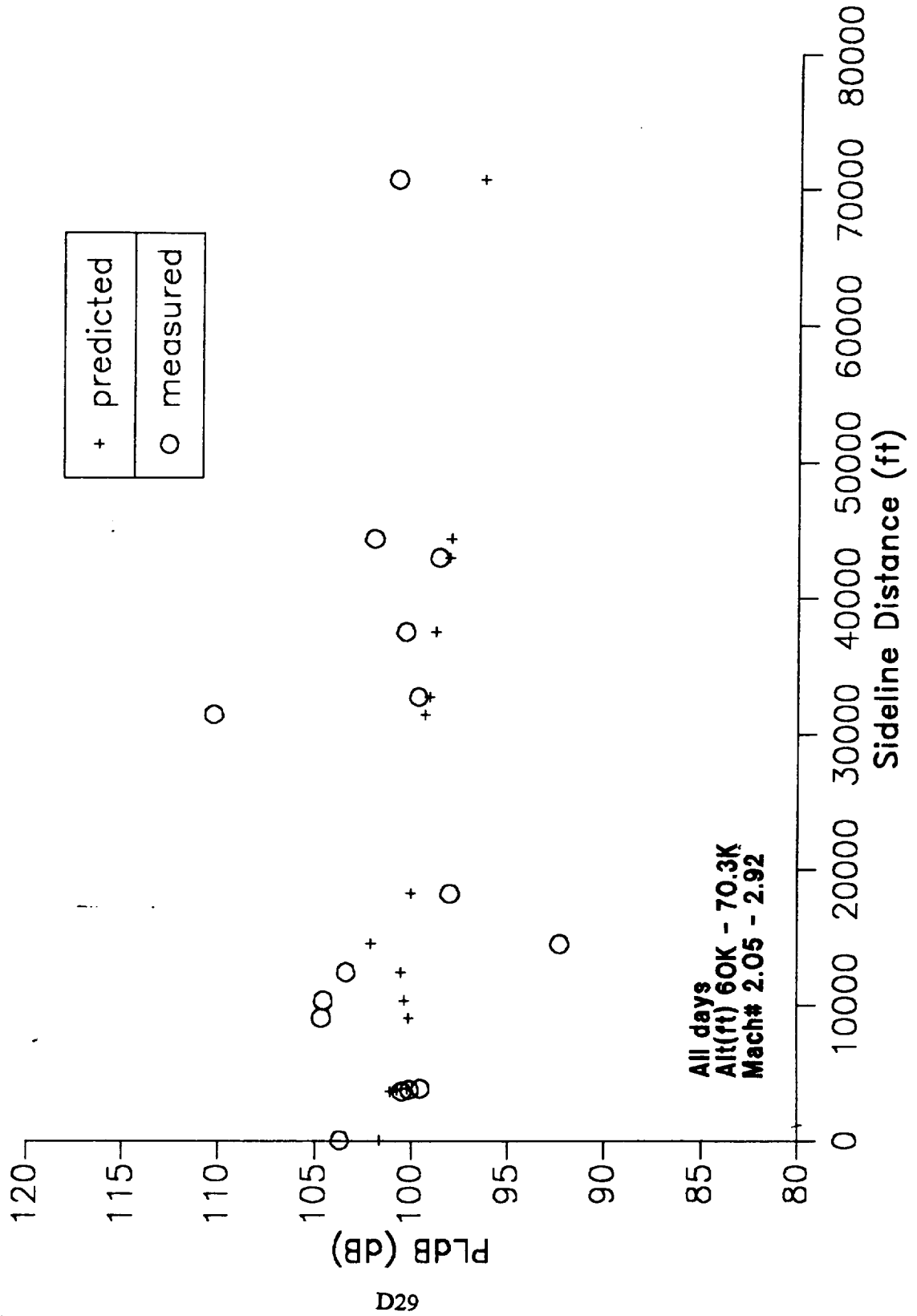


AIRCRAFT TYPE XB-70
 MACH NUMBER RANGE 2.05 TO 2.92
 ALTITUDE RANGE (FT) 60100 TO 72000
 SIDELINE DISTANCE RANGE (FT) 0 TO 80000
 FLIGHT TIME 6:00 TO 17:00

□ = MEASURED
 ■ = PREDICTED



XB-70 Log Average of Microphone Clusters



REPORT DOCUMENTATION PAGE

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13. ABSTRACT (Maximum 200 words) Sonic boom signatures from two databases - the BOOMFILE and the XB-70 were analyzed in terms of C-weighted sound exposure level (CSEL), A-weighted sound exposure level (ASEL), and Stevens Mark VII perceived level (PLdB), as well as the more traditional peak positive overpressure and rise time. The variability of these parameters due to propagation through atmosphere was analyzed for different aircraft Mach number and altitude groups. The low Mach number / low altitude group had significantly greater variation in rise time, overpressure, and loudness level than the high Mach number / high altitude group. The loudness of measured booms were found to have a variation of up to 25 dB relative to the loudness of boom predicted for a non-turbulent atmosphere. This is due primarily to the steeper ray paths of the high Mach number / high altitude group and the corresponding shorter distances traveled by these rays through the lower atmosphere resulting in reduced refraction effects. The general trend of decreased overpressure and loudness level with increasing lateral distance was also seen. Sonic boom signatures from early morning flights had less variation in rise time and overpressure than afternoon flights because of reduced turbulence. Measures of asymmetry (difference between compression and expansion portion of the signature) showed that the variability in Δ loudness level was greater than the variability in Δ overpressure due to the large influence of turbulence on rise time. Lastly, analysis of data within 50% of lateral cutoff showed that the mean value for overpressure and loudness level was independent of time of day but that the frequency with which it occurred was greater in the morning. This is a clear indicator of increased turbulence in the afternoon..				
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