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FAA WJH Technical Center



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FAA TECHNICAL CENTER
LETTER REPORT

Flight Test of Very High Frequency (VHF)
Communication Frequency Antenna Radiation Signal Levels
From the Washington National Airport

FEDERAL AVIATION ADMINISTRATION
OCT 20 1981
TECHNICAL CENTER LIBRARY
ATLANTIC CITY, N.J. 08405

by

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FEDERAL AVIATION ADMINISTRATION
TECHNICAL CENTER
Atlantic City Airport, N.J. 08405

INTRODUCTION

PURPOSE.

The purpose of the test flight was to collect signal level data radiated from Very High Frequency communications antennas located at the Washington National Airport (DCA). The data was to provide information on the coverage at a range of 40 nautical miles (nmi) and at 8,000 feet mean sea level (m.s.l.) and all approaches and departures of the airport.

BACKGROUND.

Relocation of VHF communication antennas at the Washington National Airport required a check of the signal levels of the communication carrier. Eastern Region, AEA-431, requested that the Technical Center conduct the test, which would be similar to prior radiation coverage tests, using a standard signal source (GRT-21 transmitter) of 10 watts feeding the antenna under test. The author for this report is Edward M. Sawtelle, ACT-100B.1. He may be contacted for additional information at FTS 346-3307 or (609) 641-8200, extension 3307.

DATA COLLECTION SYSTEM

The data collection system for this test was a Tektronix Digital Processing Oscilloscope (DPO). The system consists of four units: a terminal keyboard and display, dual floppy disk, Tektronix 4165 digital processor, and the signal processing unit. The signal processing unit contained a 7L13 spectrum analyzer and TR502 tracking generator. An HP 8640B signal generator was used for calibration of the 7L13 operated at the following settings of scale factor 10 dB/div; resolution 30 Hz; Hz/div, 200 Hz; time/div, 5 ms; phase locked. The signal processor was programmed to periodically sample the maximum signal level of 134.025 and 135.725 MHz. The sampled signal was processed and recorded with the aircraft inertial navigation position.

The tracker generator was an aid to the operator of the equipment to maintain the spectrum analyzer on its center frequency, 134.875 MHz, to insure that the sampling at the desired frequencies would be correct.

The 10 watt test signals transmitted from the ground location (Lat. 38° 50' 45" N, Long. 77° 03' 20" W) were received on a type 137X-1 VHF NAV/Comm antenna located on the top fuselage of the Gulfstream, G-159 aircraft at station 237 (figure 1). A short length of RG-159U connected the comm antenna to the spectrum analyzer radiofrequency input with a loss of no more than 0.5 dB.

FLIGHT SEQUENCE

The flight sequence for the test started at approximately 12:30 a.m., July 23, 1981, with a 40-nmi orbit referenced to the DCA Very High Frequency Omni-Directional Range Tactical Air Navigation and flown 8,000 feet m.s.l. This was followed by a series of approaches, departures, and Air Traffic Control directed flightpaths at attitudes consistent with the navigation for the

approach and ATC guidance for the departure/missed approach. Table 1 provides a listing of the runs for the test. The degrees azimuth data were derived from the aircraft Inertial Navigation System (INS) and are listed to assist in the analysis.

DISCUSSION OF RESULTS

Data for all flight test runs were printed and are attached as appendix A to the report. Periodically, an interrupt to the data occurred due to a malfunction of the spectrum analyzer scale-factor switch. This occurred during the start of the orbit, but was corrected by the time an azimuth of 132 was reached. It shows up in the data listings as signal dBm level of approximately -125. A double spacing of the data occurs in appendix A whenever the failure reappeared briefly.

Plots were run for the orbital data (figures 2 and 3). The plotting routine was programmed to exclude the failure periods. Figures 2 and 3 have a dBm range from -80 to -100 dBm at the origin. The plotting started at the origin and moved outward at approximately 130° . No plots were made of the approach or departure data as the azimuth varied from start to the end of the run and the data would not have lent itself to a meaningful range versus signal level plot. The printouts of runs 7 through 16 reference signal level to both azimuth and range.

Run No. 16 was the final departure outbound to Atlantic City. A loss of signal-to-noise level occurred at approximately 62 nmi at 9,000 feet m.s.l. from the DCA VORTAC. Following this loss, the signal level returned to usable levels until a turn-off of the signal source was observed at 83 nmi at 9,000 feet, m.s.l.

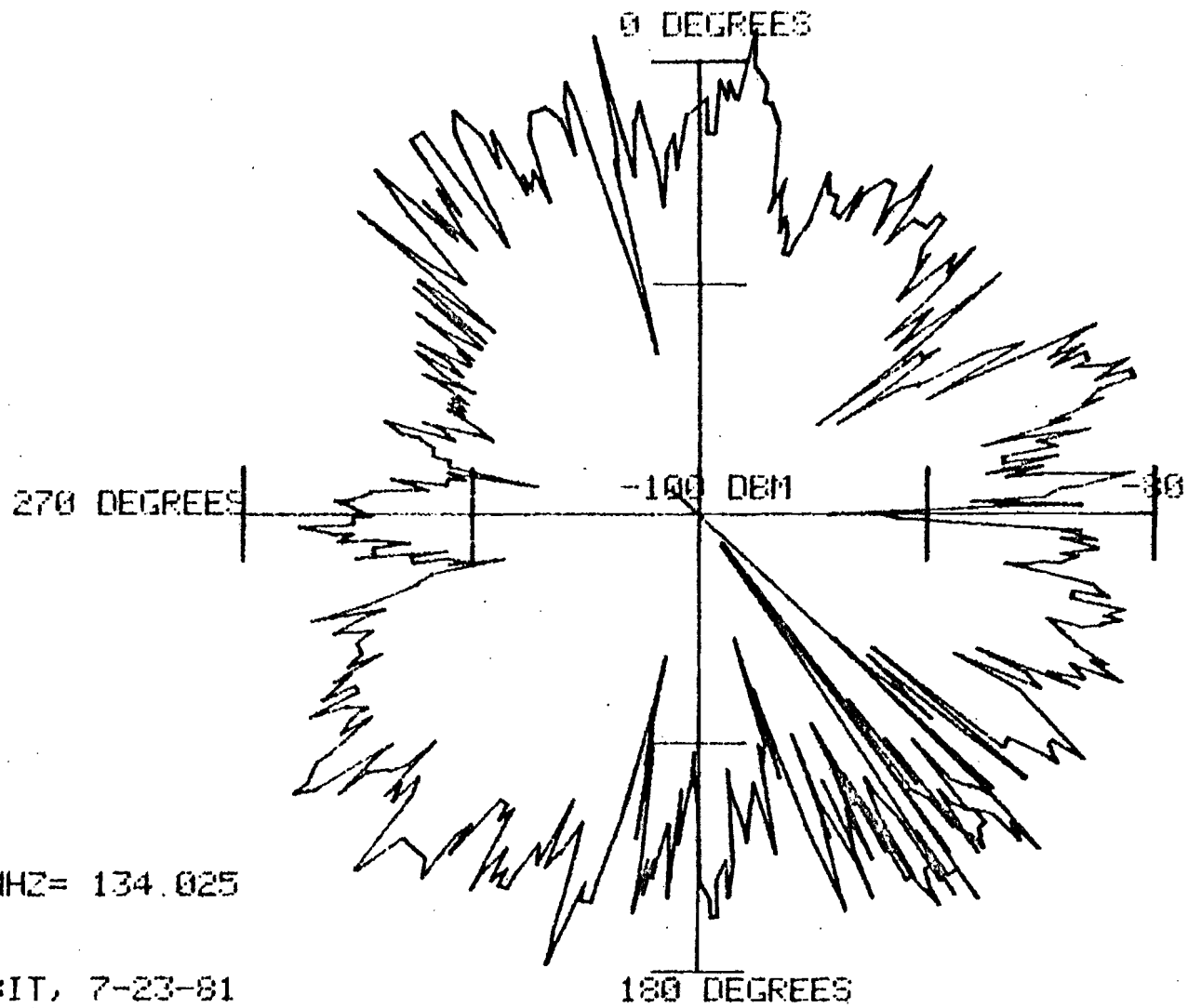
SUMMARY OF RESULTS

The results indicate that the signal received by the spectrum analyzer from the 137X-1 type VHF communications antenna exceeded -90 dBm except for very small angles, and exceeded -100 dBm at all angles of the orbit flown.

Satisfactory signal levels exceeding -90 dBm were received during all approaches and departures from the Washington National Airport.

TABLE 1
 CALIBRATION AND FLIGHT TEST RUNS

<u>Run No.</u>	<u>Type</u>	<u>Sig. Source</u>	<u>Approach/Dep. Orbit</u>	<u>Degrees Heading Start</u>	<u>End</u>
2	Cal.	Sig. Gen.	-60 dBm		
5	Cal.	Sig. Gen.	-70 dBm		
6	Test	DCA	Orbit	105	157
7	Test	DCA	Approach	161	164
9	Test	DCA	Dep.	132	314
10	Test	DCA	Approach	317	162
11	Test	DCA	Dep.	169	164
12	Test	DCA	Approach	176	177
13	Test	DCA	Dep.	156	351
14	Test	DCA	Arc to 270 ^o	341	271
15	Test	DCA	Approach	263	202
16	Test	DCA	Dep.	163	87
17	Cal.	Sig. Gen.	-70dBm		

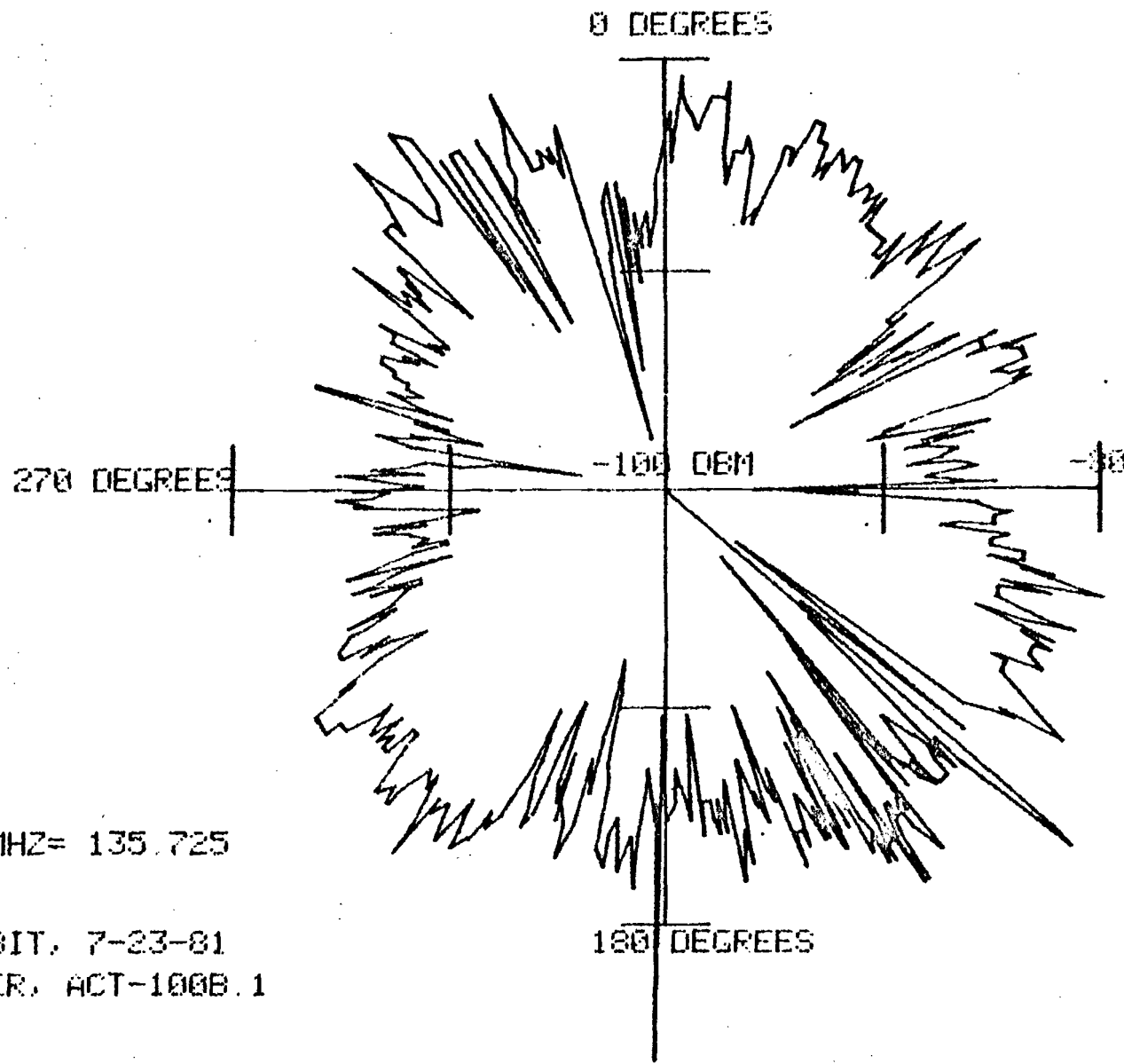


FREQUENCY IN MHZ= 134.025

DCA 40 NMI ORBIT, 7-23-81
 FAA TECH CENTER, ACT-100B.1

READY
 *

FIGURE 2 - POLAR PLOT OF RECEIVED SIGNAL LEVEL AT 134.025 MHz for 40
 NMI ORBIT OF DCA



FREQUENCY IN MHZ= 135.725

DCA 40 NMI ORBIT, 7-23-81
 FAA TECH CENTER, ACT-100B.1

READY
 *

FIGURE 3 - POLAR PLOT OF RECEIVED SIGNAL LEVEL AT 135.725 MHz for 40 NMI ORBIT OF DCA

ALIGN FIRST CHARACTER UNDER THIS ARROW

6 LINES/INCH

INSTRUCTIONS
(NOTES)

- 1
- 2
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- 24
- 25
- 26

APPENDIX A

DO NOT TYPE BELOW THIS LINE

RUH NO. 17 NMI	DCA FLT CHECK. 7-23-81 AZIMUTH	DBM	FREQUENCY= 135.725 NMI	AZIMUTH	DBM
184.912	70.6447	-69	114.449	70.6447	-70
123.987	70.6447	-69	133.524	70.6447	-70
143.062	70.6447	-69	152.599	70.6447	-70
162.137	70.6447	-70	171.674	70.6447	-69
181.212	70.6447	-69	190.749	70.6447	-69

READY
*

SIG GEN CALIBRATION

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RUN NO. 16
NMI

DCA FLT CHECK, 7-23-81
AZIMUTH DBM

FREQUENCY= 134.025
NMI AZIMUTH DBM

1.48541	163.804	-67	1.62045	163.804	-65
1.75549	163.804	-65	1.89053	163.804	-68
2.02556	163.804	-68	2.1606	163.804	-68
2.29564	163.804	-68	2.43068	163.804	-69
2.56571	163.804	-68	2.70075	163.804	-69
1.48541	163.804	-68	1.62045	163.804	-68
1.75549	163.804	-69	1.89053	163.804	-71
2.02556	163.804	-70	2.1606	163.804	-68
2.29564	163.804	-73	2.43068	163.804	-72
2.56571	163.804	-70	2.70075	163.804	-73
1.73395	113.165	-76	1.76882	113.165	-76
1.89369	113.165	-75	1.83856	113.165	-75
1.87343	113.165	-75	1.9083	113.165	-75
1.94317	113.165	-74	1.97804	113.165	-74
2.01291	113.165	-76	2.04778	113.165	-74
2.24464	101.023	-75	2.29424	101.023	-74
2.34383	101.023	-73	2.39343	101.023	-73
2.44303	101.023	-75	2.49262	101.023	-72
2.54222	101.023	-73	2.59182	101.023	-75
2.64141	101.023	-73	2.69101	101.023	-73
2.69094	90.8859	-73	2.73602	90.8859	-74
2.7811	90.8859	-74	2.82618	90.8859	-75
2.87126	90.8859	-74	2.91634	90.8859	-76
2.96142	90.8859	-74	3.0065	90.8859	-75
3.05159	90.8859	-79	3.09667	90.8859	-78
3.29851	88.4119	-79	3.35784	88.4119	-76
3.41718	88.4119	-79	3.47651	88.4119	-82
3.53584	88.4119	-77	3.59517	88.4119	-68
3.65451	88.4119	-64	3.71384	88.4119	-67
3.77317	88.4119	-71	3.8325	88.4119	-71
4.0078	86.9564	-68	4.07767	86.9564	-69
4.14755	86.9564	-70	4.21742	86.9564	-69

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4	23729	86	9564	4	35717	86	9564	-70
4	42704	86	9564	4	42692	86	9564	-69
4	56679	86	9564	4	63667	86	9564	-69
4	3739	85	5089	4	41254	85	5089	-67
4	45317	85	5089	4	49228	85	5089	-66
4	52244	85	5089	4	57207	85	5089	-67
4	61171	85	5089	4	65134	85	5089	-72
4	69097	85	5089	4	73061	85	5089	-70
5	73344	86	4008	5	64245	86	4008	-64
5	75147	86	4008	5	86048	86	4008	-65
5	9595	86	4008	6	07852	86	4008	-68
5	13753	86	4008	6	29655	86	4008	-69
5	48556	86	4008	6	51458	86	4008	-67
5	65163	86	6378	5	89047	86	6378	-66
5	9293	86	6378	5	96914	86	6378	-65
6	60699	86	6378	6	04581	86	6378	-66
6	08465	86	6378	6	12349	86	6378	-67
6	16232	86	6378	6	20116	86	6378	-70
7	01317	87	1571	7	1223	87	1571	-71
7	23142	87	1571	7	34955	87	1571	-71
7	44968	87	1571	7	5588	87	1571	-70
7	67793	87	1571	7	77795	87	1571	-71
7	88518	87	1571	7	9953	87	1571	-71
7	99232	87	5026	8	09126	87	5026	-62
8	19019	87	5026	8	28912	87	5026	-61
8	38806	87	5026	8	48699	87	5026	-63
8	58593	87	5026	8	68486	87	5026	-62
8	78379	87	5026	8	88273	87	5026	-64
8	32823	86	7174	8	36777	86	7174	-64
8	4973	86	7174	8	44683	86	7174	-63
8	48636	86	7174	8	52589	86	7174	-61
8	56542	86	7174	8	60496	86	7174	-62
8	64449	86	7174	8	68402	86	7174	-62
9	49549	86	3626	9	6052	86	3626	-61
9	71491	86	3626	9	82461	86	3626	-64

9. 93432	10. 044	86. 3626	-67
10. 1537	10. 2634	86. 3626	-63
10. 3732	10. 4829	86. 3626	-64
9. 71075	9. 74029	85. 7019	-63
9. 75904	9. 75938	85. 7019	-65
9. 82892	9. 85847	85. 7019	-64
9. 88801	9. 91755	85. 7019	-66
9. 94709	9. 97664	85. 7019	-65
10. 8991	11	85. 4332	-64
11. 1099	11. 2198	85. 4332	-65
11. 3297	11. 4396	85. 4332	-64
11. 5495	11. 6594	85. 4332	-67
11. 7693	11. 8792	85. 4332	-65
11. 8758	11. 9755	85. 2308	-65
12. 0752	12. 1758	85. 2308	-65
12. 2755	12. 3752	85. 2308	-66
12. 4749	12. 5746	85. 2308	-66
12. 6743	12. 774	85. 2308	-65
12. 874	12. 3774	84. 8108	-68
12. 4275	12. 4775	84. 8108	-66
12. 5275	12. 5775	84. 8108	-65
12. 6276	12. 6776	84. 8108	-66
12. 7166	12. 7776	84. 8108	-68
12. 7955	12. 7555	84. 3789	-66
12. 7955	12. 8364	84. 3789	-66
12. 9753	12. 9153	84. 3789	-64
12. 9562	12. 9961	84. 3789	-67
13. 036	13. 076	84. 3789	-66
13. 8855	13. 9953	84. 3206	-66
14. 1052	14. 2151	84. 3206	-68
14. 325	14. 4349	84. 3206	-66
14. 5448	14. 6547	84. 3206	-65
14. 7646	14. 8745	84. 3206	-66
14. 2015	14. 2402	84. 4725	-67
14. 2789	14. 3177	84. 4725	-66

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14. 3554	84. 4725	14. 3951	84. 4725	14. 4255	-66
14. 4338	84. 4725	14. 4726	84. 4725	14. 4725	-67
14. 5113	84. 4725	14. 55	84. 4725	14. 55	-68
15. 8218	84. 032	15. 9727	84. 032	15. 9727	-67
16. 1235	84. 032	16. 2743	84. 032	16. 2743	-68
16. 4351	84. 032	16. 576	84. 032	16. 576	-67
16. 7368	84. 032	16. 8776	84. 032	16. 8776	-69
17. 8284	84. 032	17. 1793	84. 032	17. 1793	-67
16. 2216	83. 7903	16. 2717	83. 7903	16. 2717	-71
16. 5217	83. 7903	16. 3718	83. 7903	16. 3718	-68
16. 4218	83. 7903	16. 4719	83. 7903	16. 4719	-70
16. 522	83. 7903	16. 572	83. 7903	16. 572	-71
16. 6221	83. 7903	16. 6721	83. 7903	16. 6721	-69
17. 27	83. 7053	17. 3699	83. 7053	17. 3699	-71
17. 4898	83. 7053	17. 5696	83. 7053	17. 5696	-70
17. 6695	83. 7053	17. 7693	83. 7053	17. 7693	-69
17. 8692	83. 7053	17. 9691	83. 7053	17. 9691	-68
18. 0689	83. 7053	18. 1688	83. 7053	18. 1688	-69
17. 4999	83. 38	17. 5999	83. 38	17. 5999	-69
17. 5999	83. 38	17. 6999	83. 38	17. 6999	-67
17. 6198	83. 38	17. 6498	83. 38	17. 6498	-70
17. 6798	83. 38	17. 7098	83. 38	17. 7098	-68
17. 7398	83. 38	17. 7697	83. 38	17. 7697	-67
19. 1144	83. 4928	19. 2639	83. 4928	19. 2639	-67
19. 4134	83. 4928	19. 5629	83. 4928	19. 5629	-70
19. 7124	83. 4928	19. 8619	83. 4928	19. 8619	-74
20. 0114	83. 4928	20. 1609	83. 4928	20. 1609	-70
20. 3104	83. 4928	20. 4599	83. 4928	20. 4599	-66
19. 3103	82. 8511	19. 3417	82. 8511	19. 3417	-64
19. 3731	82. 8511	19. 4045	82. 8511	19. 4045	-65
19. 4359	82. 8511	19. 4673	82. 8511	19. 4673	-66
19. 4987	82. 8511	19. 5301	82. 8511	19. 5301	-67
19. 5615	82. 8511	19. 5929	82. 8511	19. 5929	-66
19. 9969	81. 6361	20. 0621	81. 6361	20. 0621	-63
20. 1274	81. 6361	20. 1927	81. 6361	20. 1927	-66

14. 3554	84. 4725	14. 3951	84. 4725	14. 4255	-66
14. 4338	84. 4725	14. 4726	84. 4725	14. 4725	-67
14. 5113	84. 4725	14. 55	84. 4725	14. 55	-68
15. 8218	84. 032	15. 9727	84. 032	15. 9727	-67
16. 1235	84. 032	16. 2743	84. 032	16. 2743	-68
16. 4351	84. 032	16. 576	84. 032	16. 576	-67
16. 7368	84. 032	16. 8776	84. 032	16. 8776	-69
17. 8284	84. 032	17. 1793	84. 032	17. 1793	-67
16. 2216	83. 7903	16. 2717	83. 7903	16. 2717	-71
16. 5217	83. 7903	16. 3718	83. 7903	16. 3718	-68
16. 4218	83. 7903	16. 4719	83. 7903	16. 4719	-70
16. 522	83. 7903	16. 572	83. 7903	16. 572	-71
16. 6221	83. 7903	16. 6721	83. 7903	16. 6721	-69
17. 27	83. 7053	17. 3699	83. 7053	17. 3699	-71
17. 4898	83. 7053	17. 5696	83. 7053	17. 5696	-70
17. 6695	83. 7053	17. 7693	83. 7053	17. 7693	-69
17. 8692	83. 7053	17. 9691	83. 7053	17. 9691	-68
18. 0689	83. 7053	18. 1688	83. 7053	18. 1688	-69
17. 4999	83. 38	17. 5999	83. 38	17. 5999	-69
17. 5999	83. 38	17. 6999	83. 38	17. 6999	-67
17. 6198	83. 38	17. 6498	83. 38	17. 6498	-70
17. 6798	83. 38	17. 7098	83. 38	17. 7098	-68
17. 7398	83. 38	17. 7697	83. 38	17. 7697	-67
19. 1144	83. 4928	19. 2639	83. 4928	19. 2639	-67
19. 4134	83. 4928	19. 5629	83. 4928	19. 5629	-70
19. 7124	83. 4928	19. 8619	83. 4928	19. 8619	-74
20. 0114	83. 4928	20. 1609	83. 4928	20. 1609	-70
20. 3104	83. 4928	20. 4599	83. 4928	20. 4599	-66
19. 3103	82. 8511	19. 3417	82. 8511	19. 3417	-64
19. 3731	82. 8511	19. 4045	82. 8511	19. 4045	-65
19. 4359	82. 8511	19. 4673	82. 8511	19. 4673	-66
19. 4987	82. 8511	19. 5301	82. 8511	19. 5301	-67
19. 5615	82. 8511	19. 5929	82. 8511	19. 5929	-66
19. 9969	81. 6361	20. 0621	81. 6361	20. 0621	-63
20. 1274	81. 6361	20. 1927	81. 6361	20. 1927	-66

28	2579	81	6361	28	3232	81	6361	28	3232	81	6361	-67
29	3285	81	6361	29	4537	81	6361	29	4537	81	6361	-67
30	519	81	6361	30	5843	80	6421	30	5843	80	6421	-69
31	0925	80	6421	31	198	80	6421	31	198	80	6421	-72
31	0033	80	6421	31	4091	80	6421	31	4091	80	6421	-72
31	5146	80	6421	31	6202	80	6421	31	6202	80	6421	-68
31	7257	80	6421	31	8312	80	6421	31	8312	80	6421	-73
31	9368	80	6421	32	0423	80	6421	32	0423	80	6421	-68
31	8569	79	2711	31	9382	79	2711	31	9382	79	2711	-69
32	0175	79	2711	32	0967	79	2711	32	0967	79	2711	-69
32	176	79	2711	32	2553	79	2711	32	2553	79	2711	-72
32	3345	79	2711	32	4138	79	2711	32	4138	79	2711	-71
32	4531	79	2711	32	5723	79	2711	32	5723	79	2711	-71
32	5326	77	8666	32	3829	77	8666	32	3829	77	8666	-70
32	4322	77	8666	32	4834	77	8666	32	4834	77	8666	-70
33	5337	77	8666	32	584	77	8666	32	584	77	8666	-71
33	6342	77	8666	32	6845	77	8666	32	6845	77	8666	-69
33	7348	77	8666	32	7851	77	8666	32	7851	77	8666	-70
33	5713	77	2241	33	6892	77	2241	33	6892	77	2241	-67
33	8564	77	2241	33	9336	77	2241	33	9336	77	2241	-70
34	0402	77	2241	34	1581	77	2241	34	1581	77	2241	-75
34	2753	77	2241	34	3926	77	2241	34	3926	77	2241	-69
34	5898	77	2241	34	627	77	2241	34	627	77	2241	-68
34	5956	75	9432	34	6993	75	9432	34	6993	75	9432	-67
34	802	75	9432	34	9067	75	9432	34	9067	75	9432	-69
35	0105	75	9432	35	1142	75	9432	35	1142	75	9432	-68
35	2179	75	9432	35	3216	75	9432	35	3216	75	9432	-67
35	4253	75	9432	35	529	75	9432	35	529	75	9432	-67
35	1175	74	447	35	1743	74	447	35	1743	74	447	-69
35	2312	74	447	35	2881	74	447	35	2881	74	447	-67
35	345	74	447	35	4018	74	447	35	4018	74	447	-67
35	4587	74	447	35	5156	74	447	35	5156	74	447	-68
35	5724	74	447	35	6293	74	447	35	6293	74	447	-67
26	3349	73	4193	26	4507	73	4193	26	4507	73	4193	-68
26	5666	73	4193	26	6824	73	4193	26	6824	73	4193	-72

26	7383	73	4193	26	9141	73	4193	-68
27	93	73	4193	27	1458	73	4193	-70
27	9617	73	4193	27	3775	73	4193	-69
27	9526	72	6744	27	4557	72	6744	-70
27	5588	72	6744	27	6618	72	6744	-71
27	7549	72	6744	27	6679	72	6744	-71
27	971	72	6744	28	074	72	6744	-72
28	1771	72	6744	28	2801	72	6744	-72
28	4713	71	506	28	5824	71	506	-70
28	6335	71	506	28	8045	71	506	-71
28	9156	71	506	29	0267	71	506	-67
29	1377	71	506	29	2488	71	506	-69
29	3399	71	506	29	4709	71	506	-67
29	6512	70	6856	29	7795	70	6856	-68
29	8978	70	6856	30	016	70	6856	-67
30	1343	70	6856	30	2526	70	6856	-68
30	3789	70	6856	30	4891	70	6856	-69
30	6874	70	6856	30	7357	70	6856	-70
30	6308	69	8417	30	7297	69	8417	-71
30	8296	69	8417	30	9275	69	8417	-71
31	0284	69	8417	31	1253	69	8417	-71
31	2242	69	8417	31	3231	69	8417	-70
31	422	69	8417	31	5209	69	8417	-68
31	8442	69	1393	31	9635	69	1393	-70
32	9828	69	1393	32	2021	69	1393	-70
32	3214	69	1393	32	4407	69	1393	-69
32	56	69	1393	32	6793	69	1393	-69
32	7986	69	1393	32	9178	69	1393	-71
32	9298	68	4615	33	0383	68	4615	-70
33	1477	68	4615	33	2572	68	4615	-69
33	3566	68	4615	33	4761	68	4615	-68
33	5855	68	4615	33	695	68	4615	-68
33	8044	68	4615	33	9139	68	4615	-69
34	0375	67	3373	34	1483	67	3373	-71
34	259	67	3373	34	3688	67	3373	-72

34. 4085	67. 3373	34. 5912	67. 3373	-73
34. 702	67. 3373	34. 8127	67. 3373	-71
34. 9235	67. 3373	35. 0342	67. 3373	-71
35. 2979	67. 0648	35. 4225	67. 0648	-72
35. 5472	67. 0648	35. 6718	67. 0648	-70
35. 7965	67. 0648	35. 9211	67. 0648	-70
36. 0458	67. 0648	36. 1704	67. 0648	-71
36. 2951	67. 0648	36. 4197	67. 0648	-70
36. 5396	66. 6857	36. 4456	66. 6857	-70
36. 5516	66. 6857	36. 6577	66. 6857	-71
36. 7637	66. 6857	36. 8697	66. 6857	-70
36. 9758	66. 6857	37. 0818	66. 6857	-72
37. 1878	66. 6857	37. 2938	66. 6857	-70
37. 5725	65. 7788	37. 6943	65. 7788	-74
37. 816	65. 7788	37. 9277	65. 7788	-71
38. 0594	65. 7788	38. 1812	65. 7788	-74
38. 3022	65. 7788	38. 4246	65. 7788	-73
38. 5464	65. 7788	38. 6681	65. 7788	-73
38. 6386	65. 042	38. 7466	65. 042	-73
38. 8545	65. 042	38. 9625	65. 042	-74
38. 0785	65. 042	39. 1785	65. 042	-74
38. 2285	65. 042	39. 3944	65. 042	-73
38. 5024	65. 042	39. 6104	65. 042	-74
38. 866	64. 6395	39. 9874	64. 6395	-73
40. 1887	64. 6395	40. 2301	64. 6395	-74
40. 3515	64. 6395	40. 4729	64. 6395	-72
40. 5943	64. 6395	40. 7157	64. 6395	-71
40. 8371	64. 6395	40. 9585	64. 6395	-72
40. 8803	64. 1387	40. 9836	64. 1387	-73
41. 0868	64. 1387	41. 1901	64. 1387	-73
41. 2933	64. 1387	41. 3966	64. 1387	-74
41. 4998	64. 1387	41. 6031	64. 1387	-75
41. 7063	64. 1387	41. 8096	64. 1387	-75
42. 0159	63. 7235	42. 1286	63. 7235	-74
42. 2412	63. 7235	42. 3538	63. 7235	-75

42.4664	63.7235	-74	42.5791	63.7235	-73
42.6917	63.7235	-74	42.8043	63.7235	-74
42.9169	63.7235	-75	43.0296	63.7235	-77
43.2387	63.4016	-76	43.3601	63.4016	-77
43.4815	63.4016	-78	43.6029	63.4016	-78
43.7243	63.4016	-76	43.8457	63.4016	-77
43.9671	63.4016	-79	44.0885	63.4016	-77
44.2099	63.4016	-76	44.3313	63.4016	-77
43.9386	63.139	-79	44.0133	63.139	-80
44.088	63.139	-82	44.1626	63.139	-83
44.2373	63.139	-84	44.312	63.139	-81
44.3866	63.139	-80	44.4613	63.139	-78
44.536	63.139	-76	44.6106	63.139	-77
45.3132	63.4315	-75	45.4449	63.4315	-75
45.5766	63.4315	-75	45.7084	63.4315	-74
45.8401	63.4315	-74	45.9719	63.4315	-73
46.1036	63.4315	-72	46.2354	63.4315	-74
46.3671	63.4315	-75	46.4989	63.4315	-73
46.3116	63.8748	-74	46.4144	63.8748	-74
46.5171	63.8748	-74	46.6199	63.8748	-74
46.7226	63.8748	-73	46.8254	63.8748	-76
46.9281	63.8748	-73	47.0309	63.8748	-72
47.1336	63.8748	-73	47.2364	63.8748	-74
48.0406	64.6557	-75	48.2071	64.6557	-74
48.3736	64.6557	-75	48.5401	64.6557	-76
48.7066	64.6557	-78	48.8731	64.6557	-81
49.0397	64.6557	-76	49.2062	64.6557	-76
49.3727	64.6557	-76	49.5392	64.6557	-80
48.9535	65.1874	-75	49.0517	65.1874	-78
49.1498	65.1874	-76	49.2479	65.1874	-76
49.3461	65.1874	-78	49.4442	65.1874	-78
49.5423	65.1874	-77	49.6405	65.1874	-79
49.7386	65.1874	-78	49.8367	65.1874	-77
50.1385	65.8029	-78	50.2552	65.8029	-76
50.3718	65.8029	-78	50.4885	65.8029	-76

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50. 6051	50. 7217	50. 8029	-76
50. 8029	50. 955	50. 8029	-78
51. 0717	51. 1883	50. 8029	-77
51. 0652	51. 16	55. 8029	-76
51. 2549	51. 3497	66. 1103	-75
51. 4445	51. 5394	66. 1103	-77
51. 6342	51. 7291	66. 1103	-77
51. 8239	51. 9189	66. 1103	-76
52. 4257	52. 558	66. 5792	-76
52. 5904	52. 8227	66. 5792	-75
52. 955	53. 0873	66. 5792	-74
53. 2195	53. 5519	66. 5792	-74
53. 4842	53. 6165	66. 5792	-76
53. 4919	53. 8009	67. 0714	-75
53. 7998	53. 8188	67. 0714	-74
53. 9277	54. 0367	67. 0714	-74
54. 1457	54. 2546	67. 0714	-73
54. 3635	54. 4225	67. 0714	-75
54. 6396	54. 7528	67. 4167	-73
54. 8581	54. 9833	67. 4167	-76
55. 0966	55. 2108	67. 4167	-78
55. 325	55. 4393	67. 4167	-78
55. 5535	55. 6677	67. 4167	-76
55. 6275	55. 7278	67. 8334	-75
55. 828	55. 9282	67. 8334	-77
56. 0284	56. 1286	67. 8334	-77
56. 2288	56. 329	67. 8334	-77
56. 4292	56. 5294	67. 8334	-79
56. 7295	56. 8278	68. 1607	-80
57. 012	57. 1262	68. 1607	-79
57. 2404	57. 3546	68. 1607	-80
57. 4588	57. 583	68. 1607	-81
57. 6972	57. 8114	68. 1607	-80
57. 9236	58. 1031	68. 343	-81
58. 2226	58. 3421	68. 343	-81

58 4616	58 343	58 591	58 343	58 79
58 7005	58 343	58 82	58 343	58 80
58 9395	58 343	59 099	58 343	58 83
59 2284	58 5634	59 407	58 5634	58 84
59 5356	58 5634	59 6641	58 5634	58 85
59 7927	58 5634	59 9213	58 5634	58 86
59 0499	58 5634	60 1784	58 5634	58 85
60 307	58 5634	60 4356	58 5634	58 84
60 4077	58 5902	60 5221	58 5902	58 83
60 6365	58 5902	60 7508	58 5902	58 85
60 8553	58 5902	60 9795	58 5902	58 83
61 0939	58 5902	61 2082	58 5902	58 88
61 3226	58 5902	61 4369	58 5902	58 82
61 5510	58 8766	61 6683	58 8766	58 80
61 7809	58 8766	61 8975	58 8766	58 81
63 0191	58 8766	63 1366	58 8766	58 85
62 2412	58 8766	62 3758	58 8766	58 88
62 4704	58 8766	62 585	58 8766	58 82
62 7030	58 8017	62 4795	58 8017	58 86
63 5662	58 8017	62 6529	58 8017	58 82
62 7396	58 8017	62 8263	58 8017	58 81
62 9129	58 9017	62 9996	58 9017	58
63 0863	58 9017	63 173	58 9017	58
63 7267	58 9061	63 8558	58 9061	58
63 985	58 9061	64 1141	58 9061	58
64 2433	58 9061	64 3724	58 9061	58
64 5016	58 9061	64 6307	58 9061	58
64 7598	58 9061	64 889	58 9061	58
65 0142	59 1731	65 143	59 1731	58
65 2717	59 1731	65 4005	59 1731	58
65 5293	59 1731	65 6581	59 1731	58
65 7869	59 1731	65 9157	59 1731	58
66 0444	59 1731	66 1732	59 1731	58

66. 89335	69. 2924	66. 2934	69. 2924	-91
66. 3132	69. 2924	66. 4231	69. 2924	-91
66. 5329	69. 2924	66. 6427	69. 2924	-89
66. 7525	69. 2924	66. 8624	69. 2924	-87
66. 9722	69. 2924	67. 982	69. 2924	-85
67. 4592	69. 3618	67. 5835	69. 3618	-85
67. 7168	69. 3618	67. 8592	69. 3618	-84
67. 9395	69. 3618	68. 1158	69. 3618	-84
68. 2591	69. 3618	68. 3834	69. 3618	-83
68. 5167	69. 3618	68. 65	69. 3618	-83
68. 8638	69. 2193	68. 1317	69. 2193	-84
68. 1395	69. 2193	68. 2675	69. 2193	-83
68. 3554	69. 2193	68. 4033	69. 2193	-83
68. 4712	69. 2193	68. 5391	69. 2193	-83
68. 687	69. 2193	68. 6749	69. 2193	-81
68. 789	69. 3598	69. 4283	69. 3598	-82
68. 8477	69. 3598	69. 6671	69. 3598	-83
68. 7864	69. 3598	69. 9058	69. 3598	-79
70. 8252	69. 3598	70. 1445	69. 3598	-80
70. 8539	69. 3598	70. 3833	69. 3598	-83
70. 8861	69. 5233	70. 7371	69. 5233	-79
70. 8961	69. 5233	70. 995	69. 5233	-77
71. 124	69. 5233	71. 2529	69. 5233	-79
71. 3619	69. 5233	71. 5108	69. 5233	-79
71. 6398	69. 5233	71. 7688	69. 5233	-79
72. 8921	69. 7081	72. 1485	69. 7081	-77
72. 279	69. 7081	72. 4175	69. 7081	-81
72. 5559	69. 7081	72. 6944	69. 7081	-79
72. 8328	69. 7081	72. 9713	69. 7081	-78
73. 1897	69. 7081	73. 2483	69. 7081	-79
73. 2296	69. 7283	73. 3538	69. 7283	-76
73. 4779	69. 7283	73. 6021	69. 7283	-78
73. 7263	69. 7283	73. 8595	69. 7283	-79
73. 9746	69. 7283	74. 8988	69. 7283	-78
74. 223	69. 7283	74. 3472	69. 7283	-78

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73. 9049	69. 7227	73. 9775	69. 7227	73. 9775	69. 7227
74. 0502	69. 7227	74. 1228	69. 7227	74. 1228	69. 7227
74. 1855	69. 7227	74. 2582	69. 7227	74. 2582	69. 7227
74. 3409	69. 7227	74. 4136	69. 7227	74. 4136	69. 7227
74. 4862	69. 7227	74. 5589	69. 7227	74. 5589	69. 7227
75. 4098	69. 8009	75. 5467	69. 8009	75. 5467	69. 8009
75. 6895	69. 8009	75. 8325	69. 8009	75. 8325	69. 8009
76. 9753	69. 8009	76. 1182	69. 8009	76. 1182	69. 8009
76. 2511	69. 8009	76. 404	69. 8009	76. 404	69. 8009
76. 5469	69. 8009	76. 6998	69. 8009	76. 6998	69. 8009
76. 4231	69. 9853	76. 5287	69. 9853	76. 5287	69. 9853
76. 6344	69. 9853	76. 74	69. 9853	76. 74	69. 9853
76. 9457	69. 9853	76. 9513	69. 9853	76. 9513	69. 9853
77. 057	69. 9853	77. 1626	69. 9853	77. 1626	69. 9853
77. 2683	69. 9853	77. 3739	69. 9853	77. 3739	69. 9853
77. 7843	70. 0313	77. 9176	70. 0313	77. 9176	70. 0313
78. 051	70. 0313	78. 1844	70. 0313	78. 1844	70. 0313
78. 3177	70. 0313	78. 4511	70. 0313	78. 4511	70. 0313
78. 5844	70. 0313	78. 7178	70. 0313	78. 7178	70. 0313
78. 8511	70. 0313	78. 9845	70. 0313	78. 9845	70. 0313
79. 0165	70. 044	79. 1405	70. 044	79. 1405	70. 044
79. 2647	70. 044	79. 3889	70. 044	79. 3889	70. 044
79. 513	70. 044	79. 6372	70. 044	79. 6372	70. 044
79. 7612	70. 044	79. 8854	70. 044	79. 8854	70. 044
80. 0096	70. 0585	80. 1337	70. 0585	80. 1337	70. 0585
79. 796	70. 0585	79. 8782	70. 0585	79. 8782	70. 0585
79. 9604	70. 0585	80. 0425	70. 0585	80. 0425	70. 0585
80. 1247	70. 0585	80. 2068	70. 0585	80. 2068	70. 0585
80. 289	70. 0585	80. 3711	70. 0585	80. 3711	70. 0585
80. 4533	70. 0585	80. 5354	70. 0585	80. 5354	70. 0585
80. 9702	70. 0541	81. 0844	70. 0541	81. 0844	70. 0541
81. 1966	70. 0541	81. 3128	70. 0541	81. 3128	70. 0541
81. 427	70. 0541	81. 5412	70. 0541	81. 5412	70. 0541
81. 6554	70. 0541	81. 7696	70. 0541	81. 7696	70. 0541
81. 8838	70. 0541	81. 998	70. 0541	81. 998	70. 0541

82.3812	70.2044	-78	82.5198	70.2044	-78
82.6585	70.2044	-80	82.7971	70.2044	-78
82.9358	70.2044	-78	83.0744	70.2044	-81
83.2131	70.2044	-77	83.3518	70.2044	-81
83.4904	70.2044	-79	83.6291	70.2044	-79
82.935	70.1714	-79	82.998	70.1714	-79
83.861	70.1714	-79	83.1239	70.1714	-79
83.1869	70.1714	-78	83.2498	70.1714	-99
83.3128	70.1714	-102	83.3757	70.1714	-101
83.4387	70.1714	-99	83.5017	70.1714	-100
84.4443	70.2319	-102	84.5872	70.2319	-100
84.7301	70.2319	-102	84.8731	70.2319	-100
85.016	70.2319	-101	85.1589	70.2319	-101
85.3018	70.2319	-101	85.4448	70.2319	-100
85.5877	70.2319	-100	85.7306	70.2319	-102
85.8627	70.2463	-99	85.7864	70.2463	-101
85.9102	70.2463	-99	86.0339	70.2463	-100
86.1577	70.2463	-101	86.2815	70.2463	-102
86.4052	70.2463	-101	86.529	70.2463	-101
86.6527	70.2463	-99	86.7765	70.2463	-101
86.3406	70.2283	-101	86.4135	70.2283	-102
86.4864	70.2283	-101	86.5593	70.2283	-100

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86.6322	70.2283	-101	86.705	70.2283	-101
86.7779	70.2283	-101	86.8508	70.2283	-101
86.9237	70.2283	-103	86.9956	70.2283	-95

READY

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RUN NO. 16		DCA FLT CHECK, 7-23-81		FREQUENCY= 135.725		
NMI	AZIMUTH	DBM	NMI	AZIMUTH	DBM	DBM
1.48541	163.804	-69	1.62045	163.804	-72	
1.75549	163.804	-71	1.89053	163.804	-74	
2.02556	163.804	-74	2.1606	163.804	-73	
2.29564	163.804	-72	2.43068	163.804	-75	
2.56571	163.804	-74	2.70075	163.804	-72	
1.48541	163.804	-73	1.62045	163.804	-74	
1.75549	163.804	-74	1.89053	163.804	-76	
2.02556	163.804	-74	2.1606	163.804	-75	
2.29564	163.804	-76	2.43068	163.804	-76	
2.56571	163.804	-75	2.70075	163.804	-78	
1.73395	113.165	-78	1.76882	113.165	-78	
1.88369	113.165	-76	1.83856	113.165	-78	
1.87343	113.165	-77	1.9083	113.165	-84	
1.94317	113.165	-83	1.97804	113.165	-80	
2.01291	113.165	-80	2.04778	113.165	-81	
2.24464	101.023	-79	2.29424	101.023	-80	
2.34383	101.023	-80	2.39343	101.023	-80	
2.44303	101.023	-81	2.49262	101.023	-77	
2.54222	101.023	-81	2.59182	101.023	-78	
2.64141	101.023	-77	2.69101	101.023	-79	
2.69094	90.8859	-78	2.73602	90.8859	-85	
2.7811	90.8859	-80	2.82618	90.8859	-78	
2.87126	90.8859	-80	2.91634	90.8859	-77	
2.96142	90.8859	-77	3.0065	90.8859	-77	
3.05159	90.8859	-84	3.09667	90.8859	-83	
3.29951	88.4119	-81	3.35784	88.4119	-78	
3.41718	88.4119	-80	3.47651	88.4119	-82	
3.53584	88.4119	-81	3.59517	88.4119	-80	
3.65451	88.4119	-69	3.71384	88.4119	-69	
3.77317	88.4119	-72	3.8325	88.4119	-72	
4.0078	86.9564	-71	4.07767	86.9564	-70	
4.14755	86.9564	-74	4.21742	86.9564	-72	

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4. 28729	86. 9564	-71	4. 35717	86. 9564	-75
4. 42704	86. 9564	-72	4. 49692	86. 9564	-72
4. 56579	86. 9564	-73	4. 63667	86. 9564	-75
4. 7039	85. 5089	-70	4. 81354	85. 5089	-70
4. 85317	85. 5089	-69	4. 9928	85. 5089	-69
4. 99244	85. 5089	-68	4. 57207	85. 5089	-70
4. 61171	85. 5089	-73	4. 65134	85. 5089	-73
4. 69997	85. 5089	-75	4. 73061	85. 5089	-70
5. 53244	86. 4008	-71	5. 64245	86. 4008	-69
5. 75147	86. 4008	-69	5. 86048	86. 4008	-70
5. 9595	86. 4008	-71	6. 07852	86. 4008	-69
6. 18753	86. 4008	-70	6. 29655	86. 4008	-71
6. 40556	86. 4008	-70	6. 51458	86. 4008	-69
6. 65163	86. 6378	-71	6. 89047	86. 6378	-68
6. 9293	86. 6378	-67	6. 96814	86. 6378	-69
6. 06698	86. 6378	-69	6. 04581	86. 6378	-69
6. 09465	86. 6378	-72	6. 12349	86. 6378	-74
6. 16232	86. 6378	-75	6. 20116	86. 6378	-73
7. 01317	87. 1571	-76	7. 1223	87. 1571	-74
7. 25142	87. 1571	-74	7. 34055	87. 1571	-75
7. 44968	87. 1571	-77	7. 5586	87. 1571	-79
7. 65793	87. 1571	-80	7. 77785	87. 1571	-88
7. 89618	87. 1571	-67	7. 9953	87. 1571	-64
7. 99232	87. 5026	-64	8. 09126	87. 5026	-64
8. 19819	87. 5026	-65	8. 28912	87. 5026	-66
8. 38806	87. 5026	-66	8. 48699	87. 5026	-66
8. 58593	87. 5026	-65	8. 68486	87. 5026	-66
8. 78379	87. 5026	-66	8. 88273	87. 5026	-66
8. 98223	86. 7174	-70	8. 96777	86. 7174	-69
8. 4073	86. 7174	-65	8. 44683	86. 7174	-65
8. 48636	86. 7174	-65	8. 52589	86. 7174	-65
8. 56542	86. 7174	-65	8. 60496	86. 7174	-65
8. 64449	86. 7174	-65	8. 68402	86. 7174	-66
9. 49549	86. 3626	-67	9. 6052	86. 3626	-67
9. 71491	86. 3626	-68	9. 82461	86. 3626	-72

9.93432	86.3626	-71	10.044	86.3626	-68
10.1537	86.3626	-69	10.2634	86.3626	-65
10.3732	86.3626	-67	10.4829	86.3626	-69
9.71075	85.7019	-67	9.74029	85.7019	-73
9.76984	85.7019	-66	9.79938	85.7019	-65
9.82892	85.7019	-69	9.85847	85.7019	-68
9.88801	85.7019	-68	9.91755	85.7019	-71
9.94709	85.7019	-67	9.97664	85.7019	-67
10.8901	85.4332	-67	11	85.4332	-68
11.1099	85.4332	-68	11.2198	85.4332	-66
11.3297	85.4332	-69	11.4396	85.4332	-70
11.5495	85.4332	-69	11.6594	85.4332	-67
11.7693	85.4332	-71	11.8792	85.4332	-72
11.8768	85.2308	-74	11.9765	85.2308	-72
12.0762	85.2308	-69	12.1758	85.2308	-68
12.2755	85.2308	-71	12.3752	85.2308	-68
12.4749	85.2308	-67	12.5746	85.2308	-67
12.6743	85.2308	-68	12.774	85.2308	-70
12.3274	84.8108	-71	12.3774	84.8108	-70
12.4275	84.8108	-69	12.4775	84.8108	-67
12.5275	84.8108	-69	12.5775	84.8108	-68
12.6276	84.8108	-70	12.6776	84.8108	-71
12.7276	84.8108	-71	12.7776	84.8108	-70
12.7166	84.3789	-70	12.7565	84.3789	-68
12.7965	84.3789	-70	12.8364	84.3789	-69
12.8763	84.3789	-67	12.9163	84.3789	-69
12.9562	84.3789	-69	12.9961	84.3789	-70
13.036	84.3789	-69	13.076	84.3789	-70
13.8855	84.3206	-69	13.9953	84.3206	-72
14.1052	84.3206	-72	14.2151	84.3206	-69
14.325	84.3206	-68	14.4349	84.3206	-68
14.5448	84.3206	-68	14.6547	84.3206	-69
14.7646	84.3206	-70	14.8745	84.3206	-72
14.2015	84.4725	-74	14.2402	84.4725	-73
14.2769	84.4725	-73	14.3177	84.4725	-71

DATA RECORDED AND PROCESSED
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14. 3564	84. 4725	14. 3951	84. 4725	14. 3951
14. 4333	84. 4725	14. 4726	84. 4725	14. 4726
14. 5113	84. 4725	14. 55	84. 4725	14. 55
15. 8218	84. 032	15. 9727	84. 032	15. 9727
15. 1235	84. 032	15. 3743	84. 032	15. 3743
15. 4251	84. 032	15. 576	84. 032	15. 576
15. 7266	84. 032	15. 8776	84. 032	15. 8776
17. 0284	84. 032	17. 1793	84. 032	17. 1793
15. 2216	83. 7903	15. 2717	83. 7903	15. 2717
15. 3217	83. 7903	15. 3718	83. 7903	15. 3718
15. 4218	83. 7903	15. 4719	83. 7903	15. 4719
15. 522	83. 7903	15. 572	83. 7903	15. 572
15. 6221	83. 7903	15. 6721	83. 7903	15. 6721
17. 27	83. 7053	17. 3699	83. 7053	17. 3699
17. 4599	83. 7053	17. 5696	83. 7053	17. 5696
17. 6695	83. 7053	17. 7693	83. 7053	17. 7693
17. 8692	83. 7053	17. 9691	83. 7053	17. 9691
19. 0689	83. 7053	19. 1688	83. 7053	19. 1688
17. 4599	83. 58	17. 5399	83. 58	17. 5399
17. 5599	83. 58	17. 5899	83. 58	17. 5899
17. 6198	83. 58	17. 6498	83. 58	17. 6498
17. 6798	83. 58	17. 7098	83. 58	17. 7098
17. 7398	83. 58	17. 7697	83. 58	17. 7697
19. 1144	83. 4928	19. 2699	83. 4928	19. 2699
19. 4174	83. 4928	19. 5699	83. 4928	19. 5699
19. 7124	83. 4928	19. 8619	83. 4928	19. 8619
20. 0114	83. 4928	20. 1609	83. 4928	20. 1609
20. 3104	83. 4928	20. 4599	83. 4928	20. 4599
19. 3103	82. 8511	19. 3417	82. 8511	19. 3417
19. 3731	82. 8511	19. 4045	82. 8511	19. 4045
19. 4359	82. 8511	19. 4673	82. 8511	19. 4673
19. 4997	82. 8511	19. 5301	82. 8511	19. 5301
19. 5615	82. 8511	19. 5929	82. 8511	19. 5929
19. 9969	81. 6361	20. 0621	81. 6361	20. 0621
20. 1274	81. 6361	20. 1927	81. 6361	20. 1927

14. 3564	84. 4725	14. 3951	84. 4725	14. 3951
14. 4333	84. 4725	14. 4726	84. 4725	14. 4726
14. 5113	84. 4725	14. 55	84. 4725	14. 55
15. 8218	84. 032	15. 9727	84. 032	15. 9727
15. 1235	84. 032	15. 3743	84. 032	15. 3743
15. 4251	84. 032	15. 576	84. 032	15. 576
15. 7266	84. 032	15. 8776	84. 032	15. 8776
17. 0284	84. 032	17. 1793	84. 032	17. 1793
15. 2216	83. 7903	15. 2717	83. 7903	15. 2717
15. 3217	83. 7903	15. 3718	83. 7903	15. 3718
15. 4218	83. 7903	15. 4719	83. 7903	15. 4719
15. 522	83. 7903	15. 572	83. 7903	15. 572
15. 6221	83. 7903	15. 6721	83. 7903	15. 6721
17. 27	83. 7053	17. 3699	83. 7053	17. 3699
17. 4599	83. 7053	17. 5696	83. 7053	17. 5696
17. 6695	83. 7053	17. 7693	83. 7053	17. 7693
17. 8692	83. 7053	17. 9691	83. 7053	17. 9691
19. 0689	83. 7053	19. 1688	83. 7053	19. 1688
17. 4599	83. 58	17. 5399	83. 58	17. 5399
17. 5599	83. 58	17. 5899	83. 58	17. 5899
17. 6198	83. 58	17. 6498	83. 58	17. 6498
17. 6798	83. 58	17. 7098	83. 58	17. 7098
17. 7398	83. 58	17. 7697	83. 58	17. 7697
19. 1144	83. 4928	19. 2699	83. 4928	19. 2699
19. 4174	83. 4928	19. 5699	83. 4928	19. 5699
19. 7124	83. 4928	19. 8619	83. 4928	19. 8619
20. 0114	83. 4928	20. 1609	83. 4928	20. 1609
20. 3104	83. 4928	20. 4599	83. 4928	20. 4599
19. 3103	82. 8511	19. 3417	82. 8511	19. 3417
19. 3731	82. 8511	19. 4045	82. 8511	19. 4045
19. 4359	82. 8511	19. 4673	82. 8511	19. 4673
19. 4997	82. 8511	19. 5301	82. 8511	19. 5301
19. 5615	82. 8511	19. 5929	82. 8511	19. 5929
19. 9969	81. 6361	20. 0621	81. 6361	20. 0621
20. 1274	81. 6361	20. 1927	81. 6361	20. 1927

20. 2579	81. 6361	20. 3232	81. 6361	20. 3232	81. 6361	-89
20. 5889	81. 6361	20. 4537	81. 6361	20. 4537	81. 6361	-71
20. 518	81. 6361	20. 5843	81. 6361	20. 5843	81. 6361	-72
21. 0925	80. 6421	21. 198	80. 6421	21. 198	80. 6421	-75
21. 5035	80. 6421	21. 4091	80. 6421	21. 4091	80. 6421	-77
21. 5146	80. 6421	21. 6202	80. 6421	21. 6202	80. 6421	-72
21. 7257	80. 6421	21. 8312	80. 6421	21. 8312	80. 6421	-74
21. 9368	80. 6421	22. 0423	80. 6421	22. 0423	80. 6421	-76
21. 9589	79. 2711	21. 9589	79. 2711	21. 9589	79. 2711	-75
22. 0175	79. 2711	22. 0967	79. 2711	22. 0967	79. 2711	-75
22. 176	79. 2711	22. 2553	79. 2711	22. 2553	79. 2711	-76
22. 3345	79. 2711	22. 4138	79. 2711	22. 4138	79. 2711	-77
22. 4931	79. 2711	22. 5723	79. 2711	22. 5723	79. 2711	-79
22. 6525	77. 866	22. 7309	77. 866	22. 7309	77. 866	-79
22. 8102	77. 866	22. 8894	77. 866	22. 8894	77. 866	-78
22. 9687	77. 866	23. 594	77. 866	23. 594	77. 866	-77
23. 1273	77. 866	23. 6845	77. 866	23. 6845	77. 866	-76
23. 2858	77. 866	23. 7851	77. 866	23. 7851	77. 866	-76
23. 4443	77. 866	23. 8892	77. 866	23. 8892	77. 866	-77
23. 6028	77. 866	23. 9236	77. 866	23. 9236	77. 866	-78
24. 7613	77. 2241	24. 1581	77. 2241	24. 1581	77. 2241	-77
24. 9198	77. 2241	24. 3226	77. 2241	24. 3226	77. 2241	-76
24. 999	77. 2241	24. 527	77. 2241	24. 527	77. 2241	-79
24. 5956	75. 9432	24. 6993	75. 9432	24. 6993	75. 9432	-75
24. 803	75. 9432	24. 9067	75. 9432	24. 9067	75. 9432	-74
25. 0105	75. 9432	25. 1142	75. 9432	25. 1142	75. 9432	-73
25. 2179	75. 9432	25. 2316	75. 9432	25. 2316	75. 9432	-76
25. 4253	75. 9432	25. 529	75. 9432	25. 529	75. 9432	-77
25. 6327	74. 447	25. 1743	74. 447	25. 1743	74. 447	-75
25. 8401	74. 447	25. 2881	74. 447	25. 2881	74. 447	-75
25. 997	74. 447	25. 4018	74. 447	25. 4018	74. 447	-76
25. 5724	74. 447	25. 5156	74. 447	25. 5156	74. 447	-75
26. 3349	74. 447	25. 6293	74. 447	25. 6293	74. 447	-74
26. 5668	73. 4193	26. 4507	73. 4193	26. 4507	73. 4193	-74
	73. 4193	26. 6824	73. 4193	26. 6824	73. 4193	-75

25	7983	73	4193	26	9141	79
26	03	73	4193	27	1458	80
27	0517	73	4193	27	3775	82
27	5506	72	6744	27	4557	80
27	5908	72	6744	27	6618	78
27	7649	72	6744	27	8679	79
27	971	72	6744	28	074	76
28	1771	72	6744	28	3891	77
28	4713	71	506	28	5824	77
28	6957	71	506	28	8045	75
28	9156	71	506	29	0267	74
29	1277	71	506	29	2488	74
29	3599	71	506	29	4709	74
29	6612	70	6856	29	7795	71
29	8978	70	6856	30	016	72
30	1343	70	6856	30	2526	71
30	3709	70	6856	30	4891	72
30	6074	70	6856	30	7257	72
30	8389	69	8417	30	9297	72
30	9286	69	8417	30	9275	76
31	0264	69	8417	31	1253	74
31	2242	69	8417	31	3231	72
31	422	69	8417	31	5209	73
31	6442	69	1393	31	9635	73
32	0828	69	1393	32	3021	72
32	3214	69	1393	32	4407	72
32	56	69	1393	32	6793	72
32	7986	69	1393	32	9178	75
32	9288	68	4615	33	0383	72
33	1477	68	4615	33	2572	72
33	3656	68	4615	33	4761	69
33	5855	68	4615	33	695	70
33	8044	68	4615	33	9139	71
34	0375	67	3373	34	1483	72
34	259	67	3373	34	3698	72
73	4193	73	4193	73	4193	80
73	4193	73	4193	73	4193	83
73	4193	73	4193	73	4193	80
72	6744	72	6744	72	6744	76
72	6744	72	6744	72	6744	83
72	6744	72	6744	72	6744	84
72	6744	72	6744	72	6744	79
72	6744	72	6744	72	6744	75
71	506	71	506	71	506	77
71	506	71	506	71	506	77
71	506	71	506	71	506	76
71	506	71	506	71	506	73
70	6856	70	6856	70	6856	71
70	6856	70	6856	70	6856	71
70	6856	70	6856	70	6856	72
70	6856	70	6856	70	6856	73
70	6856	70	6856	70	6856	74
69	8417	69	8417	69	8417	74
69	8417	69	8417	69	8417	75
69	8417	69	8417	69	8417	74
69	8417	69	8417	69	8417	72
69	8417	69	8417	69	8417	72
69	1393	69	1393	69	1393	73
69	1393	69	1393	69	1393	74
69	1393	69	1393	69	1393	71
68	4615	68	4615	68	4615	71
68	4615	68	4615	68	4615	71
68	4615	68	4615	68	4615	70
68	4615	68	4615	68	4615	72
67	3373	67	3373	67	3373	71
67	3373	67	3373	67	3373	73

34	4805	67	3373	74	34	5912	67	3373	72
34	782	67	3373	73	34	8127	67	3373	73
34	9235	67	3373	72	35	9342	67	3373	73
35	2979	67	0648	74	35	4225	67	0648	74
35	5472	67	0648	74	35	6718	67	0648	73
35	7555	67	0648	75	35	9311	67	0648	75
35	8458	67	0648	73	36	1794	67	0648	72
36	9351	67	0648	72	36	4197	67	0648	72
36	3396	66	6857	74	36	4456	66	6857	74
36	5516	66	6857	75	36	6577	66	6857	75
36	7637	66	6857	76	36	8697	66	6857	74
36	9758	66	6857	75	37	0818	66	6857	75
37	1878	66	6857	75	37	2938	66	6857	75
37	5725	65	7788	75	37	6343	65	7788	78
37	816	65	7788	79	37	9377	65	7788	77
38	8594	65	7788	78	38	1812	65	7788	80
38	3029	65	7788	81	38	4246	65	7788	81
38	5464	65	7788	82	38	6681	65	7788	79
38	6336	65	042	82	38	7466	65	042	79
38	8545	65	042	86	38	9635	65	042	82
39	0795	65	042	79	39	1785	65	042	80
39	2865	65	042	78	39	3944	65	042	80
39	5924	65	042	80	39	6104	65	042	80
39	866	64	6395	78	39	9874	64	6395	80
40	1087	64	6395	79	40	2301	64	6395	77
40	2515	64	6395	78	40	4729	64	6395	78
40	5943	64	6395	80	40	7157	64	6395	80
40	8371	64	6395	82	40	9585	64	6395	80
40	8893	64	1387	79	40	9836	64	1387	77
41	0668	64	1387	79	41	1901	64	1387	75
41	2933	64	1387	81	41	3966	64	1387	75
41	4998	64	1387	80	41	6031	64	1387	77
41	7063	64	1387	80	41	8096	64	1387	80
42	0159	63	7235	78	42	1286	63	7235	78
42	2412	63	7235	78	42	3538	63	7235	79

42.4664	63.7235	-81	42.5791	63.7235	-80
42.6917	63.7235	-80	42.8043	63.7235	-82
42.9169	63.7235	-83	43.0296	63.7235	-83
43.2387	63.4016	-82	43.2601	63.4016	-84
43.4815	63.4016	-84	43.6029	63.4016	-84
43.7243	63.4016	-82	43.8457	63.4016	-83
43.9671	63.4016	-83	44.0885	63.4016	-82
44.2099	63.4016	-81	44.3313	63.4016	-81
43.9386	63.139	-82	44.0133	63.139	-83
44.088	63.139	-85	44.1626	63.139	-86
44.2373	63.139	-85	44.312	63.139	-84
44.3866	63.139	-81	44.4613	63.139	-78
44.536	63.139	-76	44.6106	63.139	-78
45.3132	63.4315	-77	45.4449	63.4315	-79
45.5766	63.4315	-79	45.7084	63.4315	-77
45.8401	63.4315	-78	45.9719	63.4315	-76
46.1036	63.4315	-79	46.2354	63.4315	-80
46.2671	63.4315	-80	46.4989	63.4315	-79
46.3116	63.8748	-78	46.4144	63.8748	-78
46.5171	63.8748	-79	46.6199	63.8748	-76
46.7226	63.8748	-77	46.8254	63.8748	-79
46.9281	63.8748	-78	47.0309	63.8748	-76
47.1336	63.8748	-77	47.2364	63.8748	-80
48.0486	64.6557	-80	48.2071	64.6557	-80
48.3736	64.6557	-79	48.5401	64.6557	-81
48.7066	64.6557	-84	48.8731	64.6557	-80
49.0397	64.6557	-78	49.2062	64.6557	-77
49.3727	64.6557	-80	49.5392	64.6557	-81
48.9535	65.1874	-80	49.0517	65.1874	-79
49.1498	65.1874	-77	49.2479	65.1874	-78
49.3461	65.1874	-78	49.4442	65.1874	-78
49.5423	65.1874	-78	49.6405	65.1874	-77
49.7386	65.1874	-76	49.8367	65.1874	-78
50.1365	65.8029	-78	50.2552	65.8029	-77
50.3718	65.8029	-80	50.4885	65.8029	-78

DATA RECORDED AND PROCESSED
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50.6051	65.8029	77	50.7217	65.8029	81
50.8334	65.8029	81	50.955	65.8029	77
51.0717	65.8029	78	51.1833	65.8029	79
51.3052	66.1103	79	51.16	66.1103	79
51.2549	66.1103	77	51.3497	66.1103	81
51.4445	66.1103	78	51.5394	66.1103	78
51.6342	66.1103	80	51.7291	66.1103	77
51.8239	66.1103	78	51.9188	66.1103	77
52.4057	66.5792	76	52.558	66.5792	78
52.6904	66.5792	77	52.8227	66.5792	79
52.955	66.5792	79	53.0873	66.5792	79
53.2196	66.5792	78	53.3519	66.5792	79
53.4842	66.5792	80	53.6165	66.5792	77
53.4819	67.0714	78	53.6809	67.0714	77
53.7058	67.0714	75	53.8188	67.0714	76
53.9277	67.0714	79	54.0367	67.0714	75
54.1457	67.0714	75	54.2546	67.0714	76
54.3636	67.0714	78	54.4725	67.0714	78
54.6256	67.4167	75	54.7538	67.4167	77
54.8881	67.4167	77	54.9823	67.4167	77
55.0966	67.4167	76	55.2188	67.4167	78
55.325	67.4167	75	55.4593	67.4167	77
55.5535	67.4167	77	55.6677	67.4167	76
55.6276	67.8334	77	55.7278	67.8334	78
55.838	67.8334	77	55.9382	67.8334	76
56.0384	67.8334	78	56.1386	67.8334	79
56.2388	67.8334	79	56.339	67.8334	79
56.4292	67.8334	79	56.5394	67.8334	80
56.7236	68.1607	80	56.8978	68.1607	81
57.012	68.1607	79	57.1262	68.1607	79
57.2484	68.1607	80	57.3546	68.1607	82
57.4658	68.1607	82	57.583	68.1607	81
57.6972	68.1607	80	57.8114	68.1607	81
57.9236	68.343	82	58.1031	68.343	80
58.2226	68.343	81	58.3421	68.343	83

68.4616	68.343	68.591	68.343	-80
68.7095	68.343	68.82	68.343	-81
68.9595	68.343	69.059	68.343	-82
68.9784	68.5634	69.407	68.5634	-81
69.5355	68.5634	69.6641	68.5634	-88
69.7927	68.5634	69.9213	68.5634	-86
69.0499	68.5634	69.1784	68.5634	-82
69.507	68.5634	69.4356	68.5634	-85
69.4077	68.5902	69.5221	68.5902	-84
69.6355	68.5902	69.7589	68.5902	-84
69.8652	68.5902	69.9795	68.5902	-86
61.0959	68.5902	61.2082	68.5902	-86
61.9236	68.5902	61.4369	68.5902	-87
61.9558	68.8766	61.6683	68.8766	-86
61.7829	68.8766	61.8975	68.8766	-89
62.0131	68.8766	62.1266	68.8766	-88
62.2412	68.8766	62.3558	68.8766	-92
62.4784	68.8766	62.585	68.8766	-90
62.7028	68.8017	62.4795	68.8017	-88
62.9362	68.8017	62.6529	68.8017	-90
62.7396	68.8017	62.8263	68.8017	-91
62.9129	68.8017	62.9996	68.8017	-100
63.0963	68.8017	63.173	68.8017	-100
63.7267	68.9861	63.8558	68.9861	-100
63.985	68.9861	64.1141	68.9861	-100
64.2433	68.9861	64.3724	68.9861	-94
64.5016	68.9861	64.6307	68.9861	-96
64.7598	68.9861	64.889	68.9861	-97
65.0142	69.1731	65.143	69.1731	-89
65.2717	69.1731	65.4005	69.1731	-96
65.5293	69.1731	65.6581	69.1731	-93

65 7369	65 9157	69 1731	-91
66 0444	66 1732	69 1731	-91
66 0956	66 2034	69 2924	-92
66 3132	66 4231	69 2924	-90
66 5329	66 6427	69 2924	-90
66 7625	66 8624	69 2924	-93
66 9722	67 0822	69 2924	-90
67 4502	67 5035	69 2618	-87
67 7168	67 8502	69 2618	-87
67 9357	68 1168	69 2618	-88
68 2501	68 3034	69 2618	-86
68 5167	68 65	69 2618	-87
68 8058	68 1317	69 2193	-87
68 1996	68 2675	69 2193	-87
68 3354	68 4033	69 2193	-85
68 4712	68 5391	69 2193	-86
68 607	68 6749	69 2193	-88
68 809	69 4283	69 3598	-87
68 9477	69 6671	69 3598	-85
69 7034	69 9058	69 3598	-84
70 0252	70 1445	69 3598	-86
70 2639	70 3833	69 3598	-82
70 5081	70 7371	69 5233	-84
70 6561	70 995	69 5233	-85
71 124	71 3529	69 5233	-84
71 3819	71 5188	69 5233	-84
71 6328	71 7688	69 5233	-85
72 0021	72 1405	69 7081	-85
72 279	72 4175	69 7081	-85
72 5559	72 6944	69 7081	-81
72 8328	72 9713	69 7081	-81
73 1097	73 2482	69 7081	-83
73 2296	73 3538	69 7283	-83
73 4779	73 6021	69 7283	-84
73 7263	73 8505	69 7283	-80

81.6554	70.0541	-81	81.7696	70.0541	-82
81.8838	70.0541	-82	81.998	70.0541	-83
82.3812	70.2044	-82	82.5198	70.2044	-82
82.6585	70.2044	-84	82.7971	70.2044	-81
82.9358	70.2044	-101	83.0744	70.2044	-101
83.2131	70.2044	-102	83.3518	70.2044	-102
83.4904	70.2044	-99	83.6291	70.2044	-98
82.935	70.1714	-100	82.998	70.1714	-100
83.061	70.1714	-103	83.1239	70.1714	-101
83.1869	70.1714	-103	83.2498	70.1714	-99
83.3128	70.1714	-101	83.3757	70.1714	-101
83.4387	70.1714	-102	83.5017	70.1714	-101
84.4443	70.2319	-99	84.5872	70.2319	-102
84.7301	70.2319	-100	84.8731	70.2319	-101
85.016	70.2319	-102	85.1589	70.2319	-100
85.3018	70.2319	-100	85.4448	70.2319	-98
85.5877	70.2319	-102	85.7306	70.2319	-101
85.6627	70.2463	-99	85.7864	70.2463	-99
85.9102	70.2463	-101	86.0339	70.2463	-98
86.1577	70.2463	-102	86.2815	70.2463	-100
86.4052	70.2463	-100	86.529	70.2463	-101
86.6527	70.2463	-100	86.7765	70.2463	-101

86.2406	70.2283	-100	86.4135	70.2283	-100
86.4064	70.2283	-100	86.5593	70.2283	-101
86.6322	70.2283	-101	86.705	70.2283	-101
86.7779	70.2283	-100	86.8508	70.2283	-102
86.9237	70.2283	-101	86.9966	70.2283	-101

READY
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QUN NO. 15
NMI

DCA FLT CHECK, 7-23-81
AZIMUTH DBM

21.3001	263.532	-72
21.3001	263.532	-76
21.3001	263.532	-72
21.3001	263.532	-73
21.3001	262.436	-74
20.0405	262.436	-73
19.9115	262.436	-73
19.5825	262.436	-71
19.5534	262.436	-74
19.1244	262.436	-70
19.2071	261.695	-72
19.9349	261.695	-74
19.8624	261.695	-74
19.8901	261.695	-74
19.5177	261.695	-74
19.702	260.676	-73
19.5944	260.676	-86
19.4869	260.676	-82
19.3794	260.676	-79
19.2719	259.499	-79
17.2755	259.499	-78
17.0053	259.499	-80
16.7572	259.499	-80
16.468	259.499	-80
16.1989	259.499	-80
16.5567	259.034	-78
16.4016	259.034	-80
16.2464	259.034	-81
16.0913	259.034	-80
15.9361	259.034	-83
15.8454	257.566	-80
15.702	257.566	-79

FREQUENCY= 135.725
NMI AZIMUTH DBM

21.3001	263.532	-74
21.3001	263.532	-76
21.3001	263.532	-74
21.3001	263.532	-75
21.3001	263.532	-72
19.926	262.436	-74
19.697	262.436	-76
19.468	262.436	-73
19.2389	262.436	-73
19.0099	262.436	-72
19.1209	261.695	-72
18.9486	261.695	-74
18.7762	261.695	-74
18.6039	261.695	-76
18.4316	261.695	-70
18.6482	260.676	-76
18.5407	260.676	-73
18.4332	260.676	-86
18.3257	260.676	-84
18.2181	260.676	-84
17.1409	259.499	-82
16.8717	259.499	-80
16.6026	259.499	-79
16.3335	259.499	-79
16.0643	259.499	-80
16.4791	259.034	-79
16.324	259.034	-82
16.1688	259.034	-81
16.0137	259.034	-81
15.8585	259.034	-82
15.7737	257.566	-85
15.6303	257.566	-79

9. 26013	252. 892	-71	9. 20546	252. 892	-71
9. 1599	252. 892	-70	9. 09614	252. 892	-73
9. 04148	252. 892	-75	8. 98682	252. 892	-74
8. 68731	251. 089	-73	8. 52312	251. 089	-71
8. 47892	251. 089	-71	8. 35473	251. 089	-72
8. 27054	251. 089	-72	8. 18634	251. 089	-73
8. 10215	251. 089	-73	8. 01796	251. 089	-70
7. 93376	251. 089	-70	7. 84957	251. 089	-69
7. 76537	250. 591	-71	7. 68098	250. 591	-71
7. 59698	250. 591	-67	7. 51259	250. 591	-70
7. 42859	250. 591	-68	7. 34420	250. 591	-67
7. 26020	250. 591	-66	7. 17581	250. 591	-68
7. 09181	250. 591	-66	7. 00742	250. 591	-65
7. 92342	248. 453	-67	7. 83903	248. 453	-67
7. 75503	248. 453	-66	7. 67064	248. 453	-64
7. 58664	248. 453	-65	7. 50225	248. 453	-64
7. 41825	248. 453	-65	7. 33386	248. 453	-66
7. 24986	248. 453	-66	7. 16547	248. 453	-66
7. 08147	247. 095	-66	7. 00708	247. 095	-64
6. 91308	247. 095	-63	6. 84869	247. 095	-64
6. 74469	247. 095	-65	6. 69030	247. 095	-64
6. 57630	247. 095	-65	6. 53191	247. 095	-67
6. 40791	247. 095	-65	6. 37352	247. 095	-64
6. 23952	239. 678	-64	6. 21513	239. 678	-63
6. 07113	239. 678	-62	5. 95674	239. 678	-63
5. 90274	239. 678	-124	5. 79835	239. 678	-124
5. 73435	239. 678	-124	5. 63996	239. 678	-124
5. 56596	239. 678	-64	5. 48157	239. 678	-65
5. 39757	235. 661	-62	5. 32318	235. 661	-62
5. 22918	235. 661	-63	5. 16479	235. 661	-60
5. 06079	235. 661	-63	4. 90640	235. 661	-63
4. 89240	235. 661	-62	4. 74801	235. 661	-64

5.49598	235.661	-62	5.45283	235.661	-62
5.96087	233.178	-61	5.96783	233.178	-61
5.97478	233.178	-63	5.98174	233.178	-62
5.98869	233.178	-63	5.99565	233.178	-62
6.00261	233.178	-64	6.00956	233.178	-68
6.01652	233.178	-66	6.02347	233.178	-63
5.5384	228.448	-64	5.50062	228.448	-62
5.46285	228.448	-64	5.42507	228.448	-63
5.3873	228.448	-63	5.34952	228.448	-59
5.31175	228.448	-62	5.27398	228.448	-61
5.2362	228.448	-64	5.19843	228.448	-60
5.13346	222.246	-61	5.09321	222.246	-62
5.05297	222.246	-59	5.01272	222.246	-65
4.97247	222.246	-60	4.93223	222.246	-58
4.89198	222.246	-62	4.85173	222.246	-60
4.81149	222.246	-61	4.77124	222.246	-62
4.57545	216.958	-60	4.52107	216.958	-57
4.46668	216.958	-57	4.41229	216.958	-55
4.35791	216.958	-56	4.30352	216.958	-54
4.24913	216.958	-55	4.19475	216.958	-54
4.14036	216.958	-58	4.08597	216.958	-60
4.5357	217.045	-57	4.63623	217.045	-56
4.63676	217.045	-57	4.6373	217.045	-58
4.63783	217.045	-56	4.63836	217.045	-63
4.6389	217.045	-63	4.63943	217.045	-68
4.63996	217.045	-59	4.64049	217.045	-60
4.04651	209.125	-58	3.993	209.125	-63
3.93949	209.125	-66	3.88597	209.125	-58
3.83246	209.125	-60	3.77894	209.125	-101
3.72543	209.125	-67	3.67192	209.125	-68
3.6184	209.125	-63	3.56489	209.125	-100
3.42447	203.725	-51	3.36305	203.725	-52
3.30164	203.725	-52	3.24022	203.725	-53

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

3.17581	203.725	3.11739	203.725	203.725	-52
3.95598	203.725	3.99457	203.725	203.725	-53
3.93315	203.725	2.87174	203.725	203.725	-51
3.15003	202.316	3.11983	202.316	202.316	-51
3.99992	202.316	3.05882	202.316	202.316	-51
3.99991	202.316	2.99781	202.316	202.316	-67
3.9673	202.316	2.9368	202.316	202.316	-67
3.9963	202.316	2.87579	202.316	202.316	-67

READY
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RUN NO 15
NMI

DCA FLT CHECK 7-23-81
AZIMUTH DBM

FREQUENCY= 134.025
NMI AZIMUTH DBM

21.3001	263.532	-71	21.3001	263.532	-73
21.3001	263.532	-71	21.3001	263.532	-70
21.3001	263.532	-69	21.3001	263.532	-69
21.3001	263.532	-69	21.3001	263.532	-71
21.3001	263.532	-69	21.3001	263.532	-73
20.0405	262.436	-73	19.926	262.436	-71
19.8115	262.436	-72	19.697	262.436	-74
19.5825	262.436	-76	19.468	262.436	-68
19.3534	262.436	-70	19.2389	262.436	-70
19.1244	262.436	-69	19.0099	262.436	-67
19.2071	261.695	-67	19.1209	261.695	-67
19.0348	261.695	-70	18.9486	261.695	-69
18.8624	261.695	-70	18.7762	261.695	-69
18.6901	261.695	-74	18.6039	261.695	-70
18.5177	261.695	-69	18.4316	261.695	-67
18.702	260.676	-70	18.6482	260.676	-67
18.5944	260.676	-66	18.5407	260.676	-67
18.4869	260.676	-78	18.4332	260.676	-78
18.3794	260.676	-77	18.3257	260.676	-78
18.2719	260.676	-77	18.2181	260.676	-79
17.2755	259.499	-76	17.1409	259.499	-79
17.0063	259.499	-78	16.8717	259.499	-78
16.7372	259.499	-76	16.6026	259.499	-76
16.468	259.499	-76	16.3335	259.499	-77
16.1989	259.499	-77	16.0643	259.499	-79
16.5567	259.034	-79	16.4791	259.034	-76
16.4016	259.034	-76	16.324	259.034	-77
16.2464	259.034	-78	16.1688	259.034	-77
16.0913	259.034	-77	16.0137	259.034	-83
15.9361	259.034	-82	15.8585	259.034	-81
15.8454	257.566	-78	15.7737	257.566	-80
15.702	257.566	-77	15.6303	257.566	-77

DATA RECORD (10) PROCESSED
BY THE FAA TECHNICAL CENTER

19.5566	257.566	15.4869	257.566	182	257.566	19.5566
19.4151	257.566	15.3434	257.566	180	257.566	19.4151
19.2717	257.566	15.2	257.566	178	257.566	19.2717
14.4632	255.875	14.2311	255.875	179	255.875	14.4632
14.1369	255.875	14.0667	255.875	177	255.875	14.1369
13.9346	255.875	13.8024	255.875	176	255.875	13.9346
13.6792	255.875	13.538	255.875	177	255.875	13.6792
13.4659	255.875	13.2737	255.875	177	255.875	13.4659
13.2569	255.071	13.0097	255.071	176	255.071	13.2569
13.0445	255.071	13.5283	255.071	178	255.071	13.0445
13.452	255.071	13.2758	255.071	179	255.071	13.452
13.2996	255.071	13.2333	255.071	178	255.071	13.2996
13.1471	255.071	13.0709	255.071	177	255.071	13.1471
12.7851	255.04	12.6036	255.04	177	255.04	12.7851
12.5812	255.04	12.3987	255.04	177	255.04	12.5812
12.3662	255.04	12.1938	255.04	177	255.04	12.3662
12.0913	255.04	11.9889	255.04	176	255.04	12.0913
11.8864	255.04	11.784	255.04	177	255.04	11.8864
12.3985	254.573	12.358	254.573	177	254.573	12.3985
12.3204	254.573	12.2829	254.573	176	254.573	12.3204
12.2453	254.573	12.2078	254.573	176	254.573	12.2453
12.1702	254.573	12.1327	254.573	176	254.573	12.1702
12.0951	254.573	12.0576	254.573	177	254.573	12.0951
11.4562	253.959	11.3674	253.959	175	253.959	11.4562
11.2786	253.959	11.1898	253.959	171	253.959	11.2786
11.191	253.959	11.0122	253.959	175	253.959	11.191
10.9234	253.959	10.8346	253.959	172	253.959	10.9234
10.7458	253.959	10.657	253.959	172	253.959	10.7458
9.93356	252.305	9.78706	252.305	172	252.305	9.93356
9.64057	252.305	9.49407	252.305	175	252.305	9.64057
9.34758	252.305	9.20108	252.305	174	252.305	9.34758
9.05458	252.305	8.90809	252.305	172	252.305	9.05458
8.76159	252.305	8.6151	252.305	175	252.305	8.76159
9.47877	252.892	9.42411	252.892	174	252.892	9.47877
9.36945	252.892	9.31479	252.892	169	252.892	9.36945

9. 26013	252. 892	-71	9. 28546	252. 892	-72
9. 1588	252. 892	-71	9. 89614	252. 892	-72
9. 04148	252. 892	-69	8. 98682	252. 892	-67
8. 69731	251. 089	-68	8. 52312	251. 089	-68
8. 45892	251. 089	-69	8. 35473	251. 089	-70
9. 27054	251. 089	-67	8. 18634	251. 089	-70
9. 10215	251. 089	-70	8. 01796	251. 089	-69
7. 93376	251. 089	-68	7. 84957	251. 089	-69
8. 02835	250. 591	-69	7. 96808	250. 591	-68
7. 90779	250. 591	-66	7. 84751	250. 591	-65
7. 78722	250. 591	-65	7. 72695	250. 591	-65
7. 66665	250. 591	-64	7. 60636	250. 591	-63
7. 54608	250. 591	-64	7. 48579	250. 591	-63
7. 63303	248. 453	-63	7. 59161	248. 453	-64
7. 55919	248. 453	-65	7. 50877	248. 453	-64
7. 46735	248. 453	-64	7. 42593	248. 453	-63
7. 38451	248. 453	-64	7. 3431	248. 453	-65
7. 30168	248. 453	-64	7. 26026	248. 453	-66
7. 16974	247. 095	-64	7. 12385	247. 095	-65
7. 07797	247. 095	-67	7. 03209	247. 095	-67
5. 9862	247. 095	-65	6. 94032	247. 095	-65
5. 89444	247. 095	-66	6. 84855	247. 095	-65
5. 80267	247. 095	-65	6. 75679	247. 095	-66
5. 23592	239. 678	-65	6. 13595	239. 678	-65
5. 04597	239. 678	-66	5. 956	239. 678	-124
5. 86603	239. 678	-124	5. 77606	239. 678	-124
5. 68608	239. 678	-124	5. 59611	239. 678	-124
5. 50614	239. 678	-64	5. 41617	239. 678	-67
5. 84121	235. 661	-65	5. 79805	235. 661	-66
5. 7549	235. 661	-66	5. 71175	235. 661	-65
5. 66859	235. 661	-66	5. 62544	235. 661	-63
5. 58229	235. 661	-66	5. 53913	235. 661	-63

5. 49598	235. 661	5. 45283	235. 661	-64
5. 50087	233. 178	5. 46783	233. 178	-64
5. 50478	233. 178	5. 48174	233. 178	-61
5. 50889	233. 178	5. 49565	233. 178	-62
5. 51261	233. 178	5. 50956	233. 178	-61
5. 51652	233. 178	5. 52347	233. 178	-60
5. 5204	228. 448	5. 53738	228. 448	-60
5. 52435	228. 448	5. 42507	228. 448	-62
5. 52826	228. 448	5. 34992	228. 448	-59
5. 53217	228. 448	5. 27388	228. 448	-59
5. 53608	228. 448	5. 19843	228. 448	-55
5. 53999	222. 246	5. 09331	222. 246	-58
5. 54390	222. 246	5. 01722	222. 246	-59
5. 54781	222. 246	4. 93213	222. 246	-63
5. 55172	222. 246	4. 85173	222. 246	-62
5. 55563	222. 246	4. 77134	222. 246	-58
5. 55954	216. 958	4. 69107	216. 958	-57
5. 56345	216. 958	4. 41329	216. 958	-56
5. 56736	216. 958	4. 33352	216. 958	-54
5. 57127	216. 958	4. 19475	216. 958	-56
5. 57518	216. 958	4. 09597	216. 958	-54
5. 57909	217. 045	4. 63623	217. 045	-54
5. 58300	217. 045	4. 6373	217. 045	-55
5. 58691	217. 045	4. 63836	217. 045	-53
5. 59082	217. 045	4. 63943	217. 045	-54
5. 59473	209. 125	4. 64049	217. 045	-53
5. 59864	209. 125	3. 993	209. 125	-54
5. 60255	209. 125	3. 89597	209. 125	-54
5. 60646	209. 125	3. 77894	209. 125	-55
5. 61037	209. 125	3. 67192	209. 125	-71
5. 61428	209. 125	3. 56489	209. 125	-69
5. 61819	203. 725	3. 36385	203. 725	-51
5. 62210	203. 725	3. 24822	203. 725	-51
5. 62601	203. 725	3. 11739	203. 725	-53
5. 62992	203. 725	3. 99457	203. 725	-53

2.93315	203.725	-54	2.87174	203.725	-51
3.15933	202.316	-51	3.11903	202.316	-51
3.08932	202.316	-52	3.05882	202.316	-50
3.02931	202.316	-62	2.99781	202.316	-62
2.9673	202.316	-69	2.9368	202.316	-65
2.9053	202.316	-66	2.87579	202.316	-66

READY
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RUN NO. 14
NMI

DCA FLT CHECK. 7-23-81
AZIMUTH DBM

FREQUENCY= 134.025
NMI

AZIMUTH

DBM

24.5097	341.935	-65	26.7379	341.935	-63
28.966	341.935	-64	31.1942	341.935	-65
32.4223	341.935	-64	35.6505	341.935	-64
37.8787	341.935	-63	40.1068	341.935	-64
42.335	341.935	-63	44.5631	341.935	-62
24.5097	341.935	-64	26.7379	341.935	-65
28.966	341.935	-66	31.1942	341.935	-66
32.4223	341.935	-68	35.6505	341.935	-67
37.8787	341.935	-68	40.1068	341.935	-67
42.335	341.935	-67	44.5631	341.935	-68
21.6743	336.449	-68	21.619	336.449	-68
21.5676	336.449	-68	21.5096	336.449	-67
21.4534	336.449	-70	21.3982	336.449	-67
21.343	336.449	-67	21.2878	336.449	-68
21.2326	336.449	-67	21.1774	336.449	-68
21.5951	334.016	-70	21.5829	334.016	-73
21.5797	334.016	-70	21.5585	334.016	-74
21.5453	334.016	-72	21.534	334.016	-72
21.5218	334.016	-74	21.5096	334.016	-76
21.4974	334.016	-76	21.4852	334.016	-78
21.4839	330.902	-75	21.4781	330.902	-77
21.4673	330.902	-76	21.4566	330.902	-76
21.4458	330.902	-76	21.435	330.902	-76
21.4243	330.902	-74	21.4135	330.902	-75
21.4027	330.902	-76	21.392	330.902	-75
21.5286	328.838	-76	21.5312	328.838	-76
21.5339	328.838	-76	21.5365	328.838	-75
21.5391	328.838	-73	21.5418	328.838	-72
21.5444	328.838	-69	21.547	328.838	-69
21.5497	328.838	-69	21.5523	328.838	-67
21.5804	326.126	-67	21.5853	326.126	-65
21.5902	326.126	-67	21.5952	326.126	-67

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

21.6001	21.6051	326.126	-69
21.61	21.615	326.126	-71
21.6199	21.6248	326.126	-71
21.9117	21.9422	322.198	-71
21.9238	22.0034	322.198	-71
22.0339	22.0645	322.198	-67
22.0451	22.1256	322.198	-70
22.1562	22.1868	322.198	-70
21.802	21.8167	320.785	-69
21.8113	21.8059	320.785	-71
21.8006	21.7952	320.785	-70
21.7898	21.7845	320.785	-71
21.7791	21.7737	320.785	-71
21.7303	21.7215	317.493	-72
21.7137	21.7038	317.493	-72
21.695	21.6862	317.493	-71
21.6773	21.6665	317.493	-69
21.6597	21.6509	317.493	-71
22.0721	22.1024	314.283	-71
22.1227	22.163	314.283	-74
22.1932	22.2235	314.283	-76
22.2538	22.2841	314.283	-74
22.3143	22.3446	314.283	-76
22.2039	22.2186	311.305	-73
22.2333	22.248	311.305	-72
22.2628	22.2775	311.305	-72
22.2922	22.3069	311.305	-76
22.3217	22.3364	311.305	-73
21.8896	21.8624	308.888	-76
21.8351	21.8079	308.888	-75
21.7807	21.7534	308.888	-74
21.7262	21.699	308.888	-72
21.6717	21.6445	308.888	-74
22.4548	22.5037	305.893	-74
22.5526	22.6015	305.893	-74

22	6776	286	993	22	7119	286	993	22	7119	286	993
22	7453	286	993	22	7896	286	993	22	7896	286	993
22	8149	286	993	22	8493	286	993	22	8493	286	993
22	8818	284	369	22	925	284	369	22	925	284	369
22	9683	284	369	22	1115	284	369	22	1115	284	369
22	1548	284	369	22	198	284	369	22	198	284	369
22	2413	284	369	22	2846	284	369	22	2846	284	369
22	3278	284	369	22	3711	284	369	22	3711	284	369
22	4143	281	859	22	4783	281	859	22	4783	281	859
22	5049	281	859	22	5516	281	859	22	5516	281	859
22	5932	281	859	22	649	281	859	22	649	281	859
22	6848	281	859	22	7715	281	859	22	7715	281	859
22	7736	278	987	22	85	278	987	22	85	278	987
22	8694	278	987	22	7988	278	987	22	7988	278	987
22	9612	278	987	22	9316	278	987	22	9316	278	987
24	9821	278	987	24	8725	278	987	24	8725	278	987
24	1429	278	987	24	2133	278	987	24	2133	278	987
22	5884	276	469	22	7047	276	469	22	7047	276	469
22	721	276	469	22	7373	276	469	22	7373	276	469
22	7536	276	469	22	7699	276	469	22	7699	276	469
22	7851	276	469	22	8024	276	469	22	8024	276	469
22	8187	276	469	22	835	276	469	22	835	276	469
22	2488	274	887	22	2016	274	887	22	2016	274	887
22	1634	274	887	22	1232	274	887	22	1232	274	887
22	984	274	887	22	8448	274	887	22	8448	274	887
22	9856	274	887	22	9664	274	887	22	9664	274	887
22	9271	274	887	22	8879	274	887	22	8879	274	887
22	6649	271	272	22	6988	271	272	22	6988	271	272
22	7348	271	272	22	7698	271	272	22	7698	271	272
22	8948	271	272	22	8398	271	272	22	8398	271	272
22	8748	271	272	22	9098	271	272	22	9098	271	272
22	9448	271	272	22	9797	271	272	22	9797	271	272

READY

DATA RECORDS ARE PROCESSED
BY THE FAA TECHNICAL CENTER

RUN NO. 14
NMI

DOA FLT CHECK, 7-23-81
AZIMUTH DBM

FREQUENCY= 135.725
NMI

AZIMUTH

DBM

24.5097	341.935	-66	26.7379	341.935	-67
28.966	341.935	-66	31.1942	341.935	-66
33.4223	341.935	-68	35.6505	341.935	-66
37.8787	341.935	-66	40.1068	341.935	-66
42.335	341.935	-69	44.5631	341.935	-65
24.5097	341.935	-65	26.7379	341.935	-67
28.966	341.935	-67	31.1942	341.935	-69
33.4223	341.935	-67	35.6505	341.935	-68
37.8787	341.935	-69	40.1068	341.935	-68
42.335	341.935	-69	44.5631	341.935	-69
21.6743	336.449	-68	21.619	336.449	-70
21.5638	336.449	-68	21.5086	336.449	-70
21.4534	336.449	-72	21.3982	336.449	-69
21.343	336.449	-69	21.2878	336.449	-68
21.2326	336.449	-69	21.1774	336.449	-68
21.0951	334.016	-70	21.5829	334.016	-72
21.5707	334.016	-72	21.5585	334.016	-73
21.5463	334.016	-74	21.534	334.016	-75
21.5218	334.016	-74	21.5096	334.016	-76
21.4974	334.016	-77	21.4852	334.016	-77
21.4889	330.902	-76	21.4781	330.902	-75
21.4673	330.902	-77	21.4566	330.902	-75
21.4458	330.902	-73	21.435	330.902	-74
21.4243	330.902	-74	21.4135	330.902	-76
21.4027	330.902	-76	21.392	330.902	-75
21.5286	328.838	-77	21.5312	328.838	-78
21.5339	328.838	-74	21.5365	328.838	-74
21.5391	328.838	-74	21.5418	328.838	-71
21.5444	328.838	-71	21.547	328.838	-70
21.5497	328.838	-71	21.5523	328.838	-71
21.5804	326.126	-69	21.5853	326.126	-70
21.5902	326.126	-69	21.5952	326.126	-70

21.6001	326.126	21.6051	326.126	-71
21.61	326.126	21.615	326.126	-72
21.6159	326.126	21.6240	326.126	-69
21.9117	322.198	21.9422	322.198	-73
21.9708	322.198	22.0034	322.198	-70
22.0339	322.198	22.0645	322.198	-71
22.0951	322.198	22.1256	322.198	-70
22.1562	322.198	22.1868	322.198	-73
21.822	320.785	21.8167	320.785	-72
21.8113	320.785	21.8059	320.785	-72
21.8006	320.785	21.7952	320.785	-74
21.7898	320.785	21.7845	320.785	-70
21.7791	320.785	21.7737	320.785	-73
21.7303	317.493	21.7215	317.493	-73
21.7127	317.493	21.7038	317.493	-73
21.595	317.493	21.6862	317.493	-70
21.5773	317.493	21.6685	317.493	-71
21.5597	317.493	21.6509	317.493	-72
22.0721	314.283	22.1024	314.283	-73
22.1327	314.283	22.163	314.283	-73
22.1932	314.283	22.2235	314.283	-73
22.2538	314.283	22.2841	314.283	-72
22.3143	314.283	22.3446	314.283	-73
22.2039	311.305	22.2186	311.305	-72
22.2333	311.305	22.248	311.305	-72
22.2628	311.305	22.2775	311.305	-74
22.2922	311.305	22.3069	311.305	-73
22.3217	311.305	22.3364	311.305	-73
21.8896	308.888	21.8634	308.888	-75
21.8351	308.888	21.8079	308.888	-74
21.7807	308.888	21.7534	308.888	-73
21.7262	308.888	21.699	308.888	-72
21.6717	308.888	21.6445	308.888	-74
22.4548	305.893	22.5037	305.893	-74
22.5526	305.893	22.6015	305.893	-76

22.6504	305.893	74	22.6993	305.893	76
22.7482	305.893	75	22.7972	305.893	76
22.8461	305.893	79	22.895	305.893	78
21.841	304.018	77	21.7897	304.018	78
21.7383	304.018	80	21.687	304.018	79
21.6356	304.018	79	21.5843	304.018	82
21.5329	304.018	79	21.4816	304.018	82
21.4302	304.018	78	21.3789	304.018	77
21.3275	300.936	79	21.2762	300.936	76
21.2247	300.936	75	21.1735	300.936	77
21.1219	300.936	76	21.0708	300.936	78
21.0194	300.936	77	21.9681	300.936	81
21.9167	298.177	81	21.8654	298.177	78
21.8142	298.177	80	21.7627	298.177	82
21.7115	298.177	79	21.6600	298.177	79
21.6088	298.177	79	21.5573	298.177	80
22.5061	298.177	77	22.4034	298.177	79
22.4034	294.894	80	22.3007	294.894	83
22.2980	294.894	81	22.1980	294.894	85
22.1953	294.894	81	22.0953	294.894	81
22.0926	294.894	79	22.4926	294.894	77
22.4899	292.222	80	22.3872	292.222	77
22.3872	292.222	76	22.2845	292.222	75
22.2818	292.222	76	22.1818	292.222	75
22.1791	292.222	76	22.0791	292.222	75
22.0764	290.002	75	21.9764	290.002	75
22.0737	290.002	75	21.8737	290.002	75
22.0710	290.002	77	21.7710	290.002	75
21.9683	290.002	78	21.6683	290.002	75
22.5403	286.993	76	22.4376	286.993	77
22.6089	286.993	78	22.5403	286.993	79

RUN NO. 13
NMI

DCA FLT CHECK, 7-23-81
AZIMUTH DBM

FREQUENCY= 135.725
NMI

AZIMUTH

DBM

2. 62931	156.072	-56	2. 86834	156.072	-54
3. 10736	156.072	-56	3. 34639	156.072	-59
3. 58542	156.072	-60	3. 82445	156.072	-59
4. 06348	156.072	-63	4. 3025	156.072	-66
4. 54153	156.072	-67	4. 78056	156.072	-71
2. 62931	156.072	-70	2. 86834	156.072	-67
3. 10736	156.072	-68	3. 34639	156.072	-64
3. 58542	156.072	-66	3. 82445	156.072	-66
4. 06348	156.072	-66	4. 3025	156.072	-64
4. 54153	156.072	-64	4. 78056	156.072	-63
2. 28027	133.238	-64	2. 24845	133.238	-67
2. 23563	133.238	-67	2. 22481	133.238	-69
2. 21299	133.238	-66	2. 20117	133.238	-67
2. 18936	133.238	-68	2. 17754	133.238	-66
2. 16572	133.238	-68	2. 1539	133.238	-72
2. 56402	117.647	-68	2. 59056	117.647	-68
2. 6171	117.647	-68	2. 64364	117.647	-70
2. 67018	117.647	-70	2. 69671	117.647	-73
2. 72325	117.647	-70	2. 74979	117.647	-69
2. 77633	117.647	-69	2. 80287	117.647	-70
3. 03318	108.101	-74	3. 07824	108.101	-74
3. 12331	108.101	-72	3. 16837	108.101	-77
3. 21343	108.101	-75	3. 2585	108.101	-74
3. 30356	108.101	-72	3. 34862	108.101	-70
3. 39369	108.101	-69	3. 43875	108.101	-70
3. 61679	96.7589	-67	3. 67395	96.7589	-69
3. 7311	96.7589	-65	3. 78825	96.7589	-65
3. 8454	96.7589	-64	3. 90256	96.7589	-74
3. 95971	96.7589	-70	4. 01686	96.7589	-77
4. 07401	96.7589	-77	4. 13117	96.7589	-72
3. 85823	90.6005	-66	3. 88537	90.6005	-67
3. 91251	90.6005	-68	3. 93966	90.6005	-66

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

3. 9658	99. 6005	3. 99395	99. 6005	-64
4. 02100	90. 6005	4. 04824	90. 6005	-66
3. 07538	90. 6005	4. 10252	90. 6005	-66
4. 40789	83. 8091	4. 46035	83. 8091	-65
4. 51277	83. 8091	4. 5652	83. 8091	-68
4. 61764	83. 8091	4. 67008	83. 8091	-67
4. 72252	83. 8091	4. 77495	83. 8091	-73
4. 82739	83. 8091	4. 87983	83. 8091	-75
4. 10234	74. 7824	4. 14478	74. 7824	-71
4. 12722	74. 7824	4. 10967	74. 7824	-76
4. 09211	74. 7824	4. 07456	74. 7824	-76
4. 057	74. 7824	4. 03944	74. 7824	-70
4. 02109	74. 7824	4. 00433	74. 7824	-75
3. 6291	61. 7997	3. 5714	61. 7997	-72
3. 52869	61. 7997	3. 46998	61. 7997	-75
3. 41927	61. 7997	3. 36856	61. 7997	-72
3. 31786	61. 7997	3. 26715	61. 7997	-73
3. 21644	61. 7997	3. 16573	61. 7997	-73
3. 70097	55. 3416	3. 70353	55. 3416	-74
3. 70698	55. 3416	3. 70864	55. 3416	-73
3. 7112	55. 3416	3. 71376	55. 3416	-76
3. 71632	55. 3416	3. 71888	55. 3416	-76
3. 72144	55. 3416	3. 724	55. 3416	-77
3. 64028	38. 0294	3. 63499	38. 0294	-72
3. 62971	38. 0294	3. 62443	38. 0294	-69
3. 61914	38. 0294	3. 61386	38. 0294	-64
3. 60857	38. 0294	3. 60329	38. 0294	-65
3. 598	38. 0294	3. 59272	38. 0294	-69
4. 1551	31. 5982	4. 20142	31. 5982	-68
4. 24774	31. 5982	4. 29406	31. 5982	-65
4. 34038	31. 5982	4. 3867	31. 5982	-69
4. 43393	31. 5982	4. 47935	31. 5982	-65
4. 52567	31. 5982	4. 57199	31. 5982	-67
4. 36782	18. 2017	4. 39137	18. 2017	-69
4. 41492	18. 2017	4. 43847	18. 2017	-68

4. 46202	18. 2017	-67	4. 48557	18. 2017	-66
4. 50312	18. 2017	-64	4. 53267	18. 2017	-64
4. 55623	18. 2017	-64	4. 57977	18. 2017	-65
4. 14562	18. 67213	-63	4. 21847	18. 67213	-61
4. 29133	18. 67213	-61	4. 36417	18. 67213	-63
4. 42702	18. 67213	-64	4. 50987	18. 67213	-62
4. 58272	18. 67213	-64	4. 65557	18. 67213	-64
4. 73842	18. 67213	-63	4. 80127	18. 67213	-64
4. 88855	18. 90849	-65	4. 93555	18. 90849	-66
4. 98345	18. 90849	-67	4. 73934	18. 90849	-67
4. 77624	18. 90849	-67	4. 82314	18. 90849	-67
4. 87804	18. 90849	-68	4. 91694	18. 90849	-67
4. 95384	18. 90849	-67	4. 01073	18. 90849	-66
4. 48734	18. 90849	-67	4. 5733	18. 90849	-70
4. 65927	18. 90849	-66	4. 74523	18. 90849	-66
4. 83119	18. 90849	-68	4. 91715	18. 90849	-64
4. 06312	18. 90849	-64	4. 02908	18. 90849	-68
4. 17504	18. 90849	-66	4. 261	18. 90849	-66
4. 23462	18. 90849	-66	4. 31837	18. 90849	-66
4. 38612	18. 90849	-65	4. 46187	18. 90849	-66
4. 53752	18. 90849	-67	4. 61337	18. 90849	-64
4. 68912	18. 90849	-65	4. 76486	18. 90849	-64
4. 84061	18. 90849	-68	4. 91636	18. 90849	-64
4. 91153	18. 90849	-61	4. 41631	18. 90849	-65
4. 5211	18. 90849	-67	4. 63589	18. 90849	-68
4. 73867	18. 90849	-67	4. 83546	18. 90849	-72
4. 94025	18. 90849	-72	4. 04504	18. 90849	-73
4. 14982	18. 90849	-69	4. 25461	18. 90849	-71
4. 05573	18. 90849	-72	4. 13298	18. 90849	-70
4. 21817	18. 90849	-67	4. 28735	18. 90849	-65
4. 36454	18. 90849	-74	4. 44173	18. 90849	-67
4. 51891	18. 90849	-68	4. 5961	18. 90849	-69
4. 67329	18. 90849	-69	4. 75047	18. 90849	-73
10. 2144	18. 90849	-74	10. 3267	18. 90849	-72
10. 439	18. 90849	-75	10. 5514	18. 90849	-75

DATA RECORDED AND PROCESSED
BY THE FBI LABORATORY CENTER

10.6637	349.76	-74	10.7761	349.76	-76
10.8884	349.76	-75	11.0007	349.76	-77
11.1131	349.76	-79	11.2254	349.76	-76
11.0177	351.625	-73	11.1009	351.625	-73
11.1841	351.625	-74	11.2674	351.625	-71
11.3506	351.625	-68	11.4339	351.625	-73
11.5171	351.625	-77	11.6003	351.625	-76
11.6836	351.625	-75	11.7668	351.625	-75
12.2321	351.033	-78	12.3501	351.033	-78
12.4681	351.033	-77	12.586	351.033	-76
12.704	351.033	-76	12.822	351.033	-77
12.94	351.033	-75	13.0579	351.033	-75
13.1759	351.033	-75	13.2939	351.033	-76
13.2981	349.58	-77	13.4057	349.58	-77
13.5134	349.58	-75	13.621	349.58	-74
13.7286	349.58	-74	13.8362	349.58	-75
13.9439	349.58	-77	14.0515	349.58	-79
14.1591	349.58	-80	14.2668	349.58	-80
14.1211	350.636	-77	14.2057	350.636	-79
14.2903	350.636	-83	14.3749	350.636	-79
14.4595	350.636	-82	14.5441	350.636	-82
14.6287	350.636	-84	14.7133	350.636	-83
14.7979	350.636	-77	14.8825	350.636	-77
15.2674	351.721	-76	15.3793	351.721	-75
15.4912	351.721	-75	15.6031	351.721	-76
15.715	351.721	-77	15.8269	351.721	-75
15.9388	351.721	-75	16.0507	351.721	-76
16.1626	351.721	-76	16.2745	351.721	-74
16.3535	350.142	-74	16.4624	350.142	-74
16.5713	350.142	-74	16.6802	350.142	-74
16.7892	350.142	-75	16.8981	350.142	-74
17.007	350.142	-75	17.1159	350.142	-75
17.2248	350.142	-74	17.3337	350.142	-73
17.3917	349.75	-73	17.496	349.75	-74
17.6003	349.75	-74	17.7046	349.75	-73

DATA RECORDS NOT PROCESSED
BY THE FAA TECHNICAL CENTER

17. 8089
18. 0175
18. 226
18. 3907
18. 5912
18. 7918
18. 9924
19. 193
19. 4968
19. 6452
19. 8537
20. 0621
20. 2705
20. 4847
20. 6997
20. 7946
20. 9895
21. 1845

17. 9132
18. 1217
18. 3303
18. 4909
18. 6915
18. 8921
19. 0927
19. 2933
19. 541
19. 7494
19. 9579
20. 1663
20. 3747
20. 5822
20. 6971
20. 8921
21. 087
21. 2819

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READY
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RUN NO. 13
 DCA FLT CHECK. 7-23-81
 FREQUENCY= 134.025
 DBM DBM
 HMI HMI AZIMUTH AZIMUTH

3. 82931	156.072	-51	2. 86834	156.072	-51
3. 10735	156.072	-51	3. 34639	156.072	-52
3. 58542	156.072	-52	3. 82445	156.072	-53
4. 06248	156.072	-55	4. 30225	156.072	-55
4. 54153	156.072	-60	4. 78056	156.072	-58
3. 62931	156.072	-60	2. 86834	156.072	-61
3. 10736	156.072	-62	3. 34639	156.072	-60
3. 58542	156.072	-63	3. 82445	156.072	-60
4. 06248	156.072	-62	4. 30225	156.072	-61
4. 54153	156.072	-60	4. 78056	156.072	-59
3. 62931	133.238	-60	2. 24845	133.238	-61
3. 10736	133.238	-63	3. 22481	133.238	-62
3. 58542	133.238	-65	2. 20117	133.238	-65
4. 06248	133.238	-64	3. 17754	133.238	-65
4. 54153	133.238	-63	2. 1539	133.238	-65
3. 62931	117.647	-65	2. 59056	117.647	-66
3. 10736	117.647	-66	3. 64364	117.647	-65
3. 58542	117.647	-67	2. 69671	117.647	-66
4. 06248	117.647	-65	3. 74979	117.647	-66
4. 54153	117.647	-65	2. 80287	117.647	-66
3. 62931	108.101	-65	3. 07824	108.101	-67
3. 10736	108.101	-66	3. 16837	108.101	-67
3. 58542	108.101	-69	3. 2585	108.101	-67
4. 06248	108.101	-66	3. 34862	108.101	-67
4. 54153	108.101	-65	3. 43875	108.101	-63
3. 62931	96.7589	-64	3. 67395	96.7589	-67
3. 10736	96.7589	-65	3. 78825	96.7589	-65
3. 58542	96.7589	-65	3. 90256	96.7589	-65
4. 06248	96.7589	-67	4. 01686	96.7589	-69
4. 54153	96.7589	-71	4. 13117	96.7589	-72
3. 62931	90.6005	-67	3. 88537	90.6005	-64
3. 10736	90.6005	-64	3. 93966	90.6005	-65

3.9668	90.6005	-67	3.99395	90.6005	-65
4.02109	90.6005	-63	4.04824	90.6005	-63
4.07538	90.6005	-63	4.10252	90.6005	-66
4.40789	83.8091	-67	4.46033	83.8091	-64
4.51277	83.8091	-64	4.5652	83.8091	-66
4.61764	83.8091	-66	4.67008	83.8091	-70
4.72252	83.8091	-68	4.77495	83.8091	-72
4.82739	83.8091	-68	4.87983	83.8091	-71
4.16234	74.7824	-78	4.14478	74.7824	-73
4.12722	74.7824	-75	4.10967	74.7824	-72
4.09211	74.7824	-72	4.07456	74.7824	-72
4.057	74.7824	-71	4.03944	74.7824	-69
4.02189	74.7824	-72	4.00433	74.7824	-75
3.6221	61.7997	-70	3.5714	61.7997	-72
3.52069	61.7997	-68	3.46998	61.7997	-69
3.41927	61.7997	-69	3.36856	61.7997	-70
3.31786	61.7997	-72	3.26715	61.7997	-71
3.21644	61.7997	-72	3.16573	61.7997	-72
3.70097	55.3416	-73	3.70353	55.3416	-75
3.70608	55.3416	-73	3.70864	55.3416	-73
3.7112	55.3416	-71	3.71376	55.3416	-72
3.71632	55.3416	-72	3.71888	55.3416	-73
3.72144	55.3416	-72	3.724	55.3416	-72
3.64028	38.0294	-73	3.63499	38.0294	-74
3.62971	38.0294	-62	3.62443	38.0294	-63
3.61914	38.0294	-61	3.61386	38.0294	-63
3.60857	38.0294	-62	3.60329	38.0294	-64
3.598	38.0294	-62	3.59272	38.0294	-63
4.1551	31.5982	-66	4.20142	31.5982	-67
4.24774	31.5982	-69	4.29406	31.5982	-68
4.34038	31.5982	-64	4.3867	31.5982	-65
4.43303	31.5982	-64	4.47935	31.5982	-67
4.52567	31.5982	-67	4.57199	31.5982	-67
4.36782	18.2017	-66	4.39137	18.2017	-66
4.41492	18.2017	-65	4.43847	18.2017	-64

4.46202	18.2017	4.48557	18.2017	4.48557	18.2017	4.48557	18.2017	4.48557	18.2017	4.48557	18.2017
4.50913	18.2017	4.53267	18.2017	4.53267	18.2017	4.53267	18.2017	4.53267	18.2017	4.53267	18.2017
4.55622	18.2017	4.57977	18.2017	4.57977	18.2017	4.57977	18.2017	4.57977	18.2017	4.57977	18.2017
5.14562	8.67213	5.21847	8.67213	5.21847	8.67213	5.21847	8.67213	5.21847	8.67213	5.21847	8.67213
5.29132	8.67213	5.36417	8.67213	5.36417	8.67213	5.36417	8.67213	5.36417	8.67213	5.36417	8.67213
5.43702	8.67213	5.50987	8.67213	5.50987	8.67213	5.50987	8.67213	5.50987	8.67213	5.50987	8.67213
5.58272	8.67213	5.65557	8.67213	5.65557	8.67213	5.65557	8.67213	5.65557	8.67213	5.65557	8.67213
5.72842	8.67213	5.80127	8.67213	5.80127	8.67213	5.80127	8.67213	5.80127	8.67213	5.80127	8.67213
5.87412	5.90849	5.95555	5.90849	5.95555	5.90849	5.95555	5.90849	5.95555	5.90849	5.95555	5.90849
5.99245	5.90849	5.79954	5.90849	5.79954	5.90849	5.79954	5.90849	5.79954	5.90849	5.79954	5.90849
5.77624	5.90849	5.82314	5.90849	5.82314	5.90849	5.82314	5.90849	5.82314	5.90849	5.82314	5.90849
5.87004	5.90849	5.91694	5.90849	5.91694	5.90849	5.91694	5.90849	5.91694	5.90849	5.91694	5.90849
5.95594	5.90849	5.01073	5.90849	5.01073	5.90849	5.01073	5.90849	5.01073	5.90849	5.01073	5.90849
5.48734	358.897	5.5733	358.897	5.5733	358.897	5.5733	358.897	5.5733	358.897	5.5733	358.897
5.65927	358.897	5.74523	358.897	5.74523	358.897	5.74523	358.897	5.74523	358.897	5.74523	358.897
5.85112	358.897	5.91715	358.897	5.91715	358.897	5.91715	358.897	5.91715	358.897	5.91715	358.897
7.06312	358.897	7.08909	358.897	7.08909	358.897	7.08909	358.897	7.08909	358.897	7.08909	358.897
7.17504	358.897	7.261	358.897	7.261	358.897	7.261	358.897	7.261	358.897	7.261	358.897
7.23462	359.084	7.31037	359.084	7.31037	359.084	7.31037	359.084	7.31037	359.084	7.31037	359.084
7.38512	359.084	7.46187	359.084	7.46187	359.084	7.46187	359.084	7.46187	359.084	7.46187	359.084
7.53762	359.084	7.61337	359.084	7.61337	359.084	7.61337	359.084	7.61337	359.084	7.61337	359.084
7.68912	359.084	7.76486	359.084	7.76486	359.084	7.76486	359.084	7.76486	359.084	7.76486	359.084
7.84061	359.084	7.91636	359.084	7.91636	359.084	7.91636	359.084	7.91636	359.084	7.91636	359.084
8.31153	355.066	8.41631	355.066	8.41631	355.066	8.41631	355.066	8.41631	355.066	8.41631	355.066
8.5211	355.066	8.62589	355.066	8.62589	355.066	8.62589	355.066	8.62589	355.066	8.62589	355.066
8.73067	355.066	8.83546	355.066	8.83546	355.066	8.83546	355.066	8.83546	355.066	8.83546	355.066
8.94025	355.066	9.04504	355.066	9.04504	355.066	9.04504	355.066	9.04504	355.066	9.04504	355.066
9.14982	355.066	9.25461	355.066	9.25461	355.066	9.25461	355.066	9.25461	355.066	9.25461	355.066
9.05579	353.593	9.13298	353.593	9.13298	353.593	9.13298	353.593	9.13298	353.593	9.13298	353.593
9.21017	353.593	9.28735	353.593	9.28735	353.593	9.28735	353.593	9.28735	353.593	9.28735	353.593
9.36454	353.593	9.44173	353.593	9.44173	353.593	9.44173	353.593	9.44173	353.593	9.44173	353.593
9.51891	353.593	9.5861	353.593	9.5861	353.593	9.5861	353.593	9.5861	353.593	9.5861	353.593
9.67329	353.593	9.75047	353.593	9.75047	353.593	9.75047	353.593	9.75047	353.593	9.75047	353.593
10.2144	349.76	10.3267	349.76	10.3267	349.76	10.3267	349.76	10.3267	349.76	10.3267	349.76
10.439	349.76	10.5514	349.76	10.5514	349.76	10.5514	349.76	10.5514	349.76	10.5514	349.76

10.6637	349.76	-68	10.7761	349.76	-67
10.8824	349.76	-68	11.0007	349.76	-69
11.1131	349.76	-68	11.2254	349.76	-68
11.0177	351.625	-74	11.1009	351.625	-74
11.1841	351.625	-72	11.2674	351.625	-70
11.3506	351.625	-70	11.4339	351.625	-71
11.5171	351.625	-70	11.6003	351.625	-70
11.6836	351.625	-71	11.7668	351.625	-70
12.2321	351.033	-72	12.3501	351.033	-72
12.4681	351.033	-70	12.586	351.033	-69
12.704	351.033	-70	12.822	351.033	-69
12.94	351.033	-68	13.0579	351.033	-67
13.1759	351.033	-67	13.2939	351.033	-68
13.2981	349.58	-69	13.4057	349.58	-68
13.5134	349.58	-68	13.621	349.58	-68
13.7286	349.58	-69	13.8362	349.58	-69
13.9439	349.58	-74	14.0515	349.58	-70
14.1591	349.58	-71	14.2668	349.58	-72
14.1211	350.636	-72	14.2057	350.636	-73
14.2903	350.636	-75	14.3749	350.636	-73
14.4595	350.636	-79	14.5441	350.636	-76
14.6287	350.636	-77	14.7133	350.636	-76
14.7979	350.636	-69	14.8825	350.636	-68
15.2674	351.721	-68	15.3793	351.721	-66
15.4912	351.721	-70	15.6031	351.721	-67
15.715	351.721	-69	15.8269	351.721	-66
15.9388	351.721	-65	16.0507	351.721	-67
16.1626	351.721	-68	16.2745	351.721	-67
16.3535	350.142	-67	16.4624	350.142	-67
16.5713	350.142	-67	16.6802	350.142	-68
16.7892	350.142	-68	16.8981	350.142	-67
17.007	350.142	-68	17.1159	350.142	-68
17.2248	350.142	-69	17.3337	350.142	-67
17.3917	349.75	-70	17.496	349.75	-68
17.6003	349.75	-70	17.7046	349.75	-70

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

17. 80099
18. 9175
18. 225
18. 3907
18. 5913
18. 7918
18. 9924
19. 193
19. 4358
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19. 8537
20. 0621
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17. 9132
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READY
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RUN NO. 12
NMI

DCA FLT CHECK, 7-23-81
AZIMUTH DBM

FREQUENCY= 135.725
NMI AZIMUTH

DBM

17.0399	139.492	-76	18.589	139.492	-75
20.138	139.492	-74	21.6871	139.492	-74
23.2362	139.492	-72	24.7853	139.492	-73
25.3344	139.492	-72	27.8834	139.492	-75
29.4325	139.492	-72	30.9816	139.492	-70
17.0399	139.492	-70	18.589	139.492	-71
20.138	139.492	-69	21.6871	139.492	-70
23.2362	139.492	-71	24.7853	139.492	-70
25.3344	139.492	-69	27.8834	139.492	-67
29.4325	139.492	-68	30.9816	139.492	-72
14.3606	135.932	-72	14.2579	135.932	-72
14.1552	135.932	-72	14.0524	135.932	-72
13.9497	135.932	-71	13.8469	135.932	-71
13.7442	135.932	-67	13.6414	135.932	-69
13.5387	135.932	-68	13.436	135.932	-69
14.4466	132.451	-70	14.445	132.451	-72
14.4435	132.451	-71	14.442	132.451	-71
14.4404	132.451	-70	14.4389	132.451	-69
14.4374	132.451	-68	14.4359	132.451	-69
14.4343	132.451	-69	14.4328	132.451	-69
13.5644	131.239	-68	13.484	131.239	-67
13.4037	131.239	-69	13.3234	131.239	-69
13.243	131.239	-68	13.1627	131.239	-66
13.0823	131.239	-67	13.002	131.239	-68
12.9217	131.239	-69	12.8413	131.239	-69
13.3748	129.353	-68	13.3504	129.353	-69
13.3259	129.353	-73	13.3013	129.353	-69
13.2768	129.353	-70	13.2523	129.353	-66
13.2277	129.353	-68	13.2032	129.353	-72
13.1787	129.353	-68	13.1542	129.353	-71
12.352	128.385	-70	12.2568	128.385	-69
12.1616	128.385	-64	12.0664	128.385	-66

11.9711	128.385	-68	11.8759	128.385	-65
11.7807	128.385	-64	11.6855	128.385	-64
11.5903	128.385	-65	11.495	128.385	-64
12.1133	126.547	-61	12.0829	126.547	-64
12.0526	126.547	-63	12.0222	126.547	-64
11.9919	126.547	-64	11.9615	126.547	-64
11.9312	126.547	-63	11.9008	126.547	-64
11.8704	126.547	-62	11.8401	126.547	-63
11.7571	123.295	-62	11.7219	123.295	-62
11.6868	123.295	-61	11.6516	123.295	-59
11.6185	123.295	-59	11.5813	123.295	-59
11.5462	123.295	-63	11.511	123.295	-63
11.4759	123.295	-64	11.4407	123.295	-62
11.5151	120.366	-63	11.4899	120.366	-63
11.4648	120.366	-62	11.4396	120.366	-62
11.4144	120.366	-62	11.3892	120.366	-64
11.364	120.366	-65	11.3388	120.366	-66
11.3136	120.366	-66	11.2884	120.366	-60
11.4381	118.521	-65	11.4289	118.521	-61
11.4196	118.521	-61	11.4103	118.521	-65
11.401	118.521	-63	11.3917	118.521	-62
11.3824	118.521	-59	11.3731	118.521	-61
11.3638	118.521	-60	11.3545	118.521	-62
11.0646	115.035	-59	11.0298	115.035	-60
10.995	115.035	-61	10.9602	115.035	-58
10.9254	115.035	-57	10.8906	115.035	-57
10.8558	115.035	-54	10.821	115.035	-54
10.7862	115.035	-54	10.7514	115.035	-52
10.3282	114.611	-53	10.2501	114.611	-56
10.188	114.611	-55	10.1179	114.611	-56
10.0478	114.611	-59	9.97766	114.611	-55
9.90754	114.611	-59	9.83743	114.611	-55
9.76732	114.611	-55	9.69721	114.611	-55

READY

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

RUN NO. 12
NMI

DOA FLT CHECK: 7-23-81
AZIMUTH DBM

FREQUENCY= 134.025
NMI AZIMUTH DBM

12.9945	176.275	-79	14.1759	176.275	-75
15.3572	176.275	-74	16.5385	176.275	-75
17.7198	176.275	-73	18.9011	176.275	-73
20.0825	176.275	-74	21.2638	176.275	-73
22.4451	176.275	-71	23.6264	176.275	-72
12.9945	176.275	-76	14.1759	176.275	-74
15.3572	176.275	-72	16.5385	176.275	-73
17.7198	176.275	-73	18.9011	176.275	-75
20.0825	176.275	-70	21.2638	176.275	-72
22.4451	176.275	-72	23.6264	176.275	-74
10.2927	175.782	-72	10.1544	175.782	-75
10.0162	175.782	-74	9.87799	175.782	-71
9.73978	175.782	-71	9.60153	175.782	-75
9.4633	175.782	-71	9.32507	175.782	-71
9.18684	175.782	-71	9.04861	175.782	-69
9.88187	172.014	-69	9.74468	172.014	-70
9.68749	172.014	-71	9.63031	172.014	-70
9.57312	172.014	-68	9.51594	172.014	-68
9.45875	172.014	-70	9.40156	172.014	-71
9.34438	172.014	-67	9.28719	172.014	-66
8.97753	173.847	-66	8.89739	173.847	-66
8.81725	173.847	-67	8.73712	173.847	-70
8.65698	173.847	-69	8.57684	173.847	-70
8.4967	173.847	-67	8.41656	173.847	-65
8.33642	173.847	-65	8.25629	173.847	-67
8.52665	172.814	-72	8.47837	172.814	-68
8.4381	172.814	-68	8.38182	172.814	-67
8.33355	172.814	-67	8.28527	172.814	-66
8.237	172.814	-65	8.18872	172.814	-70
8.14045	172.814	-68	8.09217	172.814	-68
7.67047	176.526	-71	7.58825	176.526	-68
7.50602	176.526	-69	7.4238	176.526	-66

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

RUN NO. 11
NMI

DCA FLT CHECK, 7-23-81
AZIMUTH DBM

FREQUENCY= 135 725
NMI AZIMUTH DBM

3.86863	168.963	-70	4.22033	168.963	-66
4.57202	168.963	-69	4.92372	168.963	-68
5.27541	168.963	-69	5.6271	168.963	-68
5.9788	168.963	-67	6.33049	168.963	-65
6.68219	168.963	-66	7.03388	168.963	-66
7.38557	168.963	-68	4.22033	168.963	-69
4.57202	168.963	-72	4.92372	168.963	-73
5.27541	168.963	-71	5.6271	168.963	-72
5.9788	168.963	-73	6.33049	168.963	-75
6.68219	168.963	-72	7.03388	168.963	-71
4.87915	171.858	-70	5.00299	171.858	-69
5.12633	171.858	-69	5.25066	171.858	-69
5.3745	171.858	-71	5.49834	171.858	-73
5.62218	171.858	-76	5.74601	171.858	-70
5.86985	171.858	-73	5.99369	171.858	-72
5.43825	173.896	-73	5.50142	173.896	-75
5.5636	173.896	-74	5.62578	173.896	-73
5.68795	173.896	-75	5.75013	173.896	-76
5.8123	173.896	-76	5.87448	173.896	-77
5.93665	173.896	-80	5.99883	173.896	-82
6.06099	174.533	-82	6.12644	174.533	-87
6.18538	174.533	-76	6.25133	174.533	-79
6.31378	174.533	-77	6.37623	174.533	-79
6.43867	174.533	-79	6.50112	174.533	-78
6.56357	174.533	-84	6.62601	174.533	-80
6.68825	174.285	-83	6.91868	174.285	-80
6.99511	174.285	-83	7.07154	174.285	-84
7.14795	174.285	-85	7.22439	174.285	-82
7.30082	174.285	-80	7.37725	174.285	-81
7.45368	174.285	-86	7.5301	174.285	-86
7.4351	176.348	-83	7.49594	176.348	-85
7.55679	176.348	-85	7.61763	176.348	-79

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

7.67847	176.348	-82	7.73932	176.348	-76
7.88016	176.348	-76	7.861	176.348	-76
7.92185	176.348	-74	7.98269	176.348	-74
7.88811	170.697	-76	7.93483	170.697	-76
7.98154	170.697	-77	8.02825	170.697	-78
8.07497	170.697	-76	8.12168	170.697	-77
8.1684	170.697	-78	8.21511	170.697	-76
8.26182	170.697	-76	8.30854	170.697	-76
8.96352	171.168	-78	9.06553	171.168	-76
9.16754	171.168	-77	9.26955	171.168	-79
9.37156	171.168	-79	9.47357	171.168	-80
9.57558	171.168	-81	9.67759	171.168	-101
9.7796	171.168	-72	9.88161	171.168	-71
9.68892	167.638	-71	9.75542	167.638	-75
9.82991	167.638	-71	9.9044	167.638	-74
9.97889	167.638	-71	10.0534	167.638	-71
10.1279	167.638	-72	10.2024	167.638	-68
10.2769	167.638	-71	10.3514	167.638	-70
10.3654	163.904	-72	10.4344	163.904	-72
10.5034	163.904	-71	10.5724	163.904	-75
10.6414	163.904	-74	10.7104	163.904	-75
10.7794	163.904	-73	10.8484	163.904	-76
10.9174	163.904	-73	10.9864	163.904	-74
10.9884	164.346	-73	11.0513	164.346	-77
11.1142	164.346	-75	11.1772	164.346	-76
11.2401	164.346	-77	11.303	164.346	-79
11.3659	164.346	-75	11.4288	164.346	-75
11.4917	164.346	-72	11.5546	164.346	-74

READY

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RUN NO.	DCA FLT CHECK, 7-23-81	FREQUENCY= 134.025	DBM
MMI	AZIMUTH	MMI	DBM
3. 09063	168.963	4. 22023	-72
4. 57202	168.963	4. 92372	-72
5. 27541	168.963	5. 6271	-75
6. 0788	168.963	6. 33049	-66
6. 09319	168.963	7. 03388	-68
5. 06863	168.963	4. 22033	-66
4. 57202	168.963	4. 92372	-72
5. 27541	168.963	5. 6271	-71
5. 0788	168.963	6. 33049	-72
6. 09319	168.963	7. 03388	-71
4. 07915	171.858	5. 00299	-71
5. 12683	171.858	5. 25066	-68
5. 5745	171.858	5. 49834	-74
5. 62318	171.858	5. 74601	-73
5. 06885	171.858	5. 99369	-75
5. 43225	173.896	5. 50142	-81
5. 5636	173.896	5. 62578	-80
5. 60795	173.896	5. 75013	-76
5. 0123	173.896	5. 87448	-80
5. 93655	173.896	5. 99883	-85
6. 06399	174.533	6. 12644	-80
6. 16868	174.533	6. 25133	-79
6. 31378	174.533	6. 37623	-83
6. 43867	174.533	6. 50112	-81
6. 56357	174.533	6. 62601	-84
6. 84225	174.285	6. 91868	-80
6. 99511	174.285	7. 07154	-84
7. 14796	174.285	7. 22439	-83
7. 30082	174.285	7. 37725	-83
7. 45368	174.285	7. 5301	-83
7. 4351	176.348	7. 49594	-85
7. 55679	176.348	7. 61763	-80

7.67847	176.348	-81	7.73932	176.348	-77
7.88816	176.348	-76	7.861	176.348	-79
7.92165	176.348	-79	7.98269	176.348	-77
7.88811	170.697	-76	7.93483	170.697	-77
7.98154	170.697	-81	8.02825	170.697	-84
8.07497	170.697	-80	8.12168	170.697	-80
8.1684	170.697	-77	8.21511	170.697	-80
8.26182	170.697	-81	8.30854	170.697	-82
8.96352	171.168	-80	9.06553	171.168	-82
9.16754	171.168	-81	9.26955	171.168	-81
9.37156	171.168	-83	9.47357	171.168	-87
9.57558	171.168	-88	9.67759	171.168	-74
9.7796	171.168	-75	9.88161	171.168	-71
9.68092	167.638	-70	9.75542	167.638	-73
9.82991	167.638	-74	9.9044	167.638	-74
9.97889	167.638	-76	10.0534	167.638	-72
10.1279	167.638	-68	10.2024	167.638	-67
10.2769	167.638	-69	10.3514	167.638	-67
10.3654	163.904	-70	10.4344	163.904	-73
10.5034	163.904	-70	10.5724	163.904	-69
10.6414	163.904	-73	10.7104	163.904	-73
10.7794	163.904	-74	10.8484	163.904	-76
10.9174	163.904	-76	10.9864	163.904	-75
10.9884	164.346	-77	11.0513	164.346	-77
11.1142	164.346	-78	11.1772	164.346	-81
11.2491	164.346	-86	11.303	164.346	-87
11.3659	164.346	-84	11.4288	164.346	-77
11.4917	164.346	-75	11.5546	164.346	-75

READY
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RUN NO. 10
NMI

DCA FLT CHECK, 7-23-81
AZIMUTH DBM

FREQUENCY= 134.025
NMI

AZIMUTH DBM

8.40262	317.647	-70
9.93037	317.647	-71
11.4561	317.647	-72
12.9859	317.647	-73
14.5136	317.647	-73
8.40262	317.647	-72
9.93037	317.647	-71
11.4561	317.647	-73
12.9859	317.647	-73
14.5136	317.647	-74
6.44607	313.451	-71
6.22922	313.451	-69
6.01237	313.451	-68
5.79552	313.451	-69
5.57868	313.451	-68
6.01989	311.218	-68
5.92269	311.218	-68
5.82549	311.218	-67
5.72829	311.218	-66
5.63109	311.218	-70
5.13412	312.126	-67
4.96423	312.126	-65
4.79435	312.126	-63
4.62446	312.126	-66
4.45457	312.126	-65
4.60314	307.884	-65
4.49116	307.884	-65
4.37917	307.884	-64
4.26719	307.884	-63
4.1552	307.884	-64
3.71738	310.734	-65
3.54616	310.734	-65

9.1665	317.647	-71
10.6942	317.647	-69
12.222	317.647	-70
13.7497	317.647	-71
15.2775	317.647	-72
9.1665	317.647	-72
10.6942	317.647	-72
12.222	317.647	-74
13.7497	317.647	-70
15.2775	317.647	-71
6.33765	313.451	-71
6.1208	313.451	-69
5.90395	313.451	-68
5.6871	313.451	-72
5.47025	313.451	-70
5.97129	311.218	-67
5.87409	311.218	-68
5.77689	311.218	-69
5.67969	311.218	-69
5.58249	311.218	-67
5.04918	312.126	-68
4.87929	312.126	-63
4.7094	312.126	-64
4.53952	312.126	-64
4.36963	312.126	-68
4.54715	307.884	-65
4.43516	307.884	-64
4.32318	307.884	-64
4.21119	307.884	-63
4.09921	307.884	-64
3.63177	310.734	-65
3.46054	310.734	-66

3.37493	310.734	-66	3.28931	310.734	-71
3.2037	310.734	-70	3.11809	310.734	-68
3.03247	310.734	-67	2.94686	310.734	-67
2.96628	314.011	-67	2.89022	314.011	-65
2.81415	314.011	-64	2.73689	314.011	-64
2.66282	314.011	-64	2.58595	314.011	-62
2.50989	314.011	-64	2.43382	314.011	-61
2.35776	314.011	-63	2.28169	314.011	-65
2.77264	311.499	-65	2.74813	311.499	-63
2.72361	311.499	-65	2.69909	311.499	-66
2.67457	311.499	-66	2.65005	311.499	-62
2.62553	311.499	-64	2.60102	311.499	-64
2.5765	311.499	-65	2.55198	311.499	-66
2.13859	316.879	-64	2.07883	316.879	-65
2.01897	316.879	-64	1.9591	316.879	-66
1.89924	316.879	-63	1.83938	316.879	-62
1.77952	316.879	-61	1.71966	316.879	-60
1.6598	316.879	-61	1.59994	316.879	-60
1.33645	330.024	-63	1.25807	330.024	-64
1.1797	330.024	-63	1.10133	330.024	-62
1.02295	330.024	-62	.944581	330.024	-65
.866209	330.024	-64	.787836	330.024	-64
.709453	330.024	-63	.63109	330.024	-64
.947255	328.82	-61	.904749	328.82	-62
.862243	328.82	-61	.819737	328.82	-61
.777231	328.82	-63	.734725	328.82	-59
.69222	328.82	-62	.649714	328.82	-58
.607208	328.82	-58	.564702	328.82	-58
.522303	318.107	-59	.55617	318.107	-58
.520037	318.107	-59	.483905	318.107	-57
.447772	318.107	-60	.41164	318.107	-62
.375507	318.107	-62	.339375	318.107	-61
.303242	318.107	-60	.26711	318.107	-51
.353884	96.2856	-68	.328925	96.2856	-70
.303965	96.2856	-70	.279006	96.2856	-68

.254847	96.2856	-69	.229088	96.2856	-72
.204128	96.2856	-70	.179169	96.2856	-68
.15421	96.2856	-67	.129251	96.2856	-70
.585161	162.234	-70	.603917	162.234	-75
.622673	162.234	-73	.64143	162.234	-75
.660186	162.234	-72	.678942	162.234	-73
.697698	162.234	-71	.716454	162.234	-71
.735211	162.234	-69	.753967	162.234	-71

READY

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RUN NO. 10
NMI

OCA FLT CHECK, 7-23-81
AZIMUTH DBM

FREQUENCY= 135.725
NMI

AZIMUTH

DBM

8.48262	317.647	-73	9.1665	317.647	-73
9.93037	317.647	-72	10.6942	317.647	-74
11.4581	317.647	-74	12.222	317.647	-71
12.9859	317.647	-76	13.7497	317.647	-75
14.5136	317.647	-75	15.2775	317.647	-74
8.48262	317.647	-71	9.1665	317.647	-72
9.93037	317.647	-73	10.6942	317.647	-73
11.4581	317.647	-72	12.222	317.647	-70
12.9859	317.647	-71	13.7497	317.647	-70
14.5136	317.647	-67	15.2775	317.647	-70
6.44697	313.451	-71	6.33765	313.451	-70
6.22922	313.451	-70	6.1208	313.451	-72
6.01237	313.451	-71	5.90395	313.451	-73
5.79552	313.451	-71	5.6871	313.451	-73
5.57868	313.451	-71	5.47025	313.451	-69
6.01989	311.218	-69	5.97129	311.218	-69
5.92269	311.218	-68	5.87409	311.218	-68
5.82549	311.218	-69	5.77689	311.218	-71
5.72829	311.218	-70	5.67969	311.218	-70
5.63109	311.218	-70	5.58249	311.218	-69
5.13412	312.126	-73	5.04918	312.126	-70
4.96423	312.126	-69	4.87929	312.126	-69
4.79435	312.126	-72	4.7094	312.126	-74
4.62446	312.126	-68	4.53952	312.126	-71
4.45457	312.126	-71	4.36963	312.126	-69
4.60314	307.884	-69	4.54715	307.884	-69
4.49116	307.884	-69	4.43516	307.884	-66
4.37917	307.884	-69	4.32318	307.884	-69
4.26719	307.884	-67	4.21119	307.884	-65
4.1552	307.884	-68	4.09921	307.884	-66
3.71738	310.734	-64	3.63177	310.734	-67
3.54616	310.734	-68	3.46054	310.734	-68

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

3.37493	310.734	-69	3.28931	310.734	-72
3.2007	310.734	-71	3.11609	310.734	-70
3.03247	310.734	-70	2.94686	310.734	-68
2.96628	314.011	-69	2.89022	314.011	-67
2.81415	314.011	-67	2.73809	314.011	-65
2.66292	314.011	-66	2.58595	314.011	-66
2.50969	314.011	-67	2.43382	314.011	-66
2.35776	314.011	-71	2.28169	314.011	-68
2.77254	311.499	-67	2.74813	311.499	-68
2.72351	311.499	-68	2.69909	311.499	-69
2.67457	311.499	-67	2.65005	311.499	-67
2.62553	311.499	-66	2.60102	311.499	-68
2.5765	311.499	-68	2.55198	311.499	-66
2.13869	316.879	-67	2.07883	316.879	-66
2.01897	316.879	-66	1.9591	316.879	-64
1.89924	316.879	-69	1.83938	316.879	-67
1.77952	316.879	-68	1.71966	316.879	-66
1.6598	316.879	-65	1.59994	316.879	-68
1.33645	330.024	-71	1.25807	330.024	-66
1.1797	330.024	-68	1.10133	330.024	-66
1.02295	330.024	-68	.944581	330.024	-68
.866299	330.024	-68	.787936	330.024	-70
.709463	330.024	-67	.63109	330.024	-64
.947255	328.82	-69	.904749	328.82	-67
.862243	328.82	-66	.819737	328.82	-64
.777231	328.82	-65	.734725	328.82	-63
.69222	328.82	-60	.649714	328.82	-60
.607206	328.82	-60	.564702	328.82	-60
.522193	318.107	-59	.55617	318.107	-59
.520037	318.107	-62	.483905	318.107	-61
.447772	318.107	-60	.41164	318.107	-56
.375507	318.107	-58	.339375	318.107	-58
.303242	318.107	-59	.26711	318.107	-58
.353084	96.2856	-67	.328925	96.2856	-68
.303965	96.2856	-67	.279006	96.2856	-66

DATA RECEIVED AND PROCESSED
BY THE FAA TECHNICAL CENTER

.254047	96.2856	-67	.229088	96.2856	-68
.204128	96.2856	-67	.179169	96.2856	-68
.15421	96.2856	-67	.129251	96.2856	-67
.585161	162.234	-68	.603917	162.234	-70
.622673	162.234	-70	.64143	162.234	-73
.650186	162.234	-76	.678942	162.234	-72
.697898	162.234	-74	.716454	162.234	-74
.735211	162.234	-72	.753967	162.234	-70

READY

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RUH NO. 9 NMI	DOA FLT CHECK. 7-23-81 AZIMUTH	DBM	FREQUENCY= 135.725 NMI	AZIMUTH	DBM
25937	132.87	-54	282949	132.87	-53
305528	132.87	-56	330107	132.87	-57
353686	132.87	-61	377266	132.87	-58
400845	132.87	-60	424424	132.87	-58
448083	132.87	-57	471582	132.87	-62
25937	132.87	-61	282949	132.87	-59
306528	132.87	-63	330107	132.87	-62
353686	132.87	-62	377266	132.87	-62
400845	132.87	-63	424424	132.87	-63
448083	132.87	-65	471582	132.87	-64
664088	339.761	-63	703021	339.761	-63
741957	339.761	-63	780893	339.761	-59
819829	339.761	-65	858765	339.761	-60
897761	339.761	-61	936637	339.761	-68
975573	339.761	-67	1.01451	339.761	-65
1.3591	341.47	-66	1.42583	341.47	-65
1.49255	341.47	-65	1.55927	341.47	-67
1.626	341.47	-66	1.69272	341.47	-66
1.75944	341.47	-66	1.82617	341.47	-71
1.89289	341.47	-68	1.95961	341.47	-67
1.89759	323.15	-65	1.95261	323.15	-67
2.00762	323.15	-67	2.06264	323.15	-63
2.11766	323.15	-63	2.17268	323.15	-65
2.2277	323.15	-67	2.28272	323.15	-68
2.33774	323.15	-69	2.39276	323.15	-69
2.57999	317.516	-70	2.64703	317.516	-68
2.71407	317.516	-67	2.78111	317.516	-65
2.84815	317.516	-64	2.91519	317.516	-64
2.98222	317.516	-67	3.04926	317.516	-66
3.1163	317.516	-66	3.18334	317.516	-65
3.33644	310.15	-71	3.4113	310.15	-68
3.48616	310.15	-71	3.56102	310.15	-76

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

3.63588	310.15	-73	3.71075	310.15	-73
3.78561	310.15	-72	3.86047	310.15	-71
3.93533	310.15	-71	4.01019	310.15	-71
5.07811	313.311	-74	5.24325	313.311	-72
5.40839	313.311	-74	5.57353	313.311	-76
5.73867	313.311	-76	5.90381	313.311	-76
6.06895	313.311	-76	6.23409	313.311	-78
6.39923	313.311	-77	6.56437	313.311	-80
5.53885	315.067	-77	5.59357	315.067	-75
5.65828	315.067	-74	5.707	315.067	-73
5.76372	315.067	-72	5.82043	315.067	-73
5.87715	315.067	-74	5.93387	315.067	-74
5.99058	315.067	-79	6.0473	315.067	-81
6.23755	313.662	-74	6.3064	313.662	-72
6.37526	313.662	-71	6.44411	313.662	-73
6.51297	313.662	-71	6.58182	313.662	-70
6.65068	313.662	-69	6.71953	313.662	-68
6.78839	313.662	-69	6.85724	313.662	-75
6.66257	311.546	-76	6.70747	311.546	-78
6.75237	311.546	-77	6.79727	311.546	-77
6.84217	311.546	-78	6.88707	311.546	-77
6.93196	311.546	-75	6.97686	311.546	-76
7.02176	311.546	-75	7.06666	311.546	-80
7.1259	304.4	-80	7.17211	304.4	-78
7.21831	304.4	-77	7.26451	304.4	-76
7.31071	304.4	-78	7.35692	304.4	-77
7.40312	304.4	-76	7.44932	304.4	-76
7.49553	304.4	-75	7.54173	304.4	-75
8.00738	300.427	-74	8.09171	300.427	-76
8.17605	300.427	-76	8.26038	300.427	-76
8.34472	300.427	-74	8.42905	300.427	-77
8.51339	300.427	-78	8.59772	300.427	-76
8.68205	300.427	-76	8.76639	300.427	-76
8.7522	295.637	-77	8.82758	295.637	-75
8.90295	295.637	-76	8.97833	295.637	-77

9. 05371	9. 12909	295. 637	-84
9. 20446	9. 27984	295. 637	-79
9. 35522	9. 4306	295. 637	-80
9. 40793	9. 47439	292. 836	-79
9. 54086	9. 60732	292. 836	-74
9. 67379	9. 74025	292. 836	-76
9. 80572	9. 87318	292. 836	-74
9. 93904	10. 0061	292. 836	-75
9. 79122	9. 83211	292. 658	-77
9. 873	9. 91369	292. 658	-76
9. 95477	9. 99566	292. 658	-74
10. 0365	10. 0774	292. 658	-73
10. 1183	10. 1592	292. 658	-77
10. 5124	10. 5817	293. 332	-80
10. 551	10. 7202	293. 332	-76
10. 7695	10. 8588	293. 332	-73
10. 9281	10. 9974	293. 332	-74
11. 0567	11. 1359	293. 332	-72
11. 39	11. 4761	295. 661	-73
11. 5622	11. 6483	295. 661	-75
11. 7344	11. 8205	295. 661	-76
11. 9065	11. 9926	295. 661	-75
12. 0787	12. 1648	295. 661	-80
11. 3375	11. 3405	299. 223	-80
11. 3435	11. 3466	299. 223	-81
11. 3496	11. 3527	299. 223	-79
11. 3557	11. 3588	299. 223	-80
11. 3618	11. 3649	299. 223	-80
10. 87	10. 8278	303. 541	-79
10. 7856	10. 7433	303. 541	-76
10. 7811	10. 6589	303. 541	-77
10. 6167	10. 5745	303. 541	-79
10. 5323	10. 49	303. 541	-77
10. 7069	10. 6883	307. 558	-80
10. 6696	10. 6509	307. 558	-78

9. 05371	9. 12909	295. 637	-80
9. 20446	9. 27984	295. 637	-81
9. 35522	9. 4306	295. 637	-84
9. 40793	9. 47439	292. 836	-82
9. 54086	9. 60732	292. 836	-75
9. 67379	9. 74025	292. 836	-73
9. 80572	9. 87318	292. 836	-74
9. 93904	10. 0061	292. 836	-78
9. 79122	9. 83211	292. 658	-77
9. 873	9. 91369	292. 658	-79
9. 95477	9. 99566	292. 658	-74
10. 0365	10. 0774	292. 658	-75
10. 1183	10. 1592	292. 658	-77
10. 5124	10. 5817	293. 332	-80
10. 551	10. 7202	293. 332	-76
10. 7695	10. 8588	293. 332	-73
10. 9281	10. 9974	293. 332	-74
11. 0567	11. 1359	293. 332	-72
11. 39	11. 4761	295. 661	-73
11. 5622	11. 6483	295. 661	-75
11. 7344	11. 8205	295. 661	-76
11. 9065	11. 9926	295. 661	-75
12. 0787	12. 1648	295. 661	-80
11. 3375	11. 3405	299. 223	-80
11. 3435	11. 3466	299. 223	-81
11. 3496	11. 3527	299. 223	-79
11. 3557	11. 3588	299. 223	-80
11. 3618	11. 3649	299. 223	-80
10. 87	10. 8278	303. 541	-79
10. 7856	10. 7433	303. 541	-76
10. 7811	10. 6589	303. 541	-77
10. 6167	10. 5745	303. 541	-79
10. 5323	10. 49	303. 541	-77
10. 7069	10. 6883	307. 558	-80
10. 6696	10. 6509	307. 558	-78

10.6323	307.558	-78	10.6136	307.558	-76
10.5949	307.558	-76	10.5763	307.558	-78
10.5576	307.558	-74	10.539	307.558	-74
10.4967	312.061	-77	10.4759	312.061	-75
10.455	312.061	-76	10.4342	312.061	-77
10.4134	312.061	-77	10.3926	312.061	-75
10.3718	312.061	-76	10.351	312.061	-77
10.3302	312.061	-78	10.3094	312.061	-78
10.2126	314.388	-80	10.1849	314.388	-79
10.1572	314.388	-78	10.1295	314.388	-76
10.1018	314.388	-74	10.074	314.388	-75
10.0463	314.388	-75	10.0186	314.388	-76
9.9909	314.388	-75	9.96318	314.388	-75

READY

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RUN NO. 9	DCA FLT CHECK. 7-23-81	FREQUENCY= 134.025	DBM
MMJ	AZIMUTH	MMJ	AZIMUTH
25937	132.87	282949	132.87
30528	132.87	330107	132.87
35358	132.87	377265	132.87
40045	132.87	424424	132.87
44803	132.87	471582	132.87
49537	132.87	282949	132.87
54288	132.87	330107	132.87
59036	132.87	377265	132.87
63784	132.87	424424	132.87
68532	132.87	471582	132.87
73280	339.761	703021	339.761
78028	339.761	780893	339.761
82776	339.761	858765	339.761
87524	339.761	936637	339.761
92272	341.47	1.01451	341.47
97020	341.47	1.42583	341.47
1.01768	341.47	1.55927	341.47
1.06516	341.47	1.69272	341.47
1.11264	341.47	1.82617	341.47
1.16012	341.47	1.95961	341.47
1.20760	323.15	1.95261	323.15
1.25508	323.15	2.06264	323.15
1.30256	323.15	2.17268	323.15
1.35004	323.15	2.28272	323.15
1.39752	323.15	2.39276	323.15
1.44500	317.516	2.64703	317.516
1.49248	317.516	2.76111	317.516
1.53996	317.516	2.91519	317.516
1.58744	317.516	3.04926	317.516
1.63492	317.516	3.18334	317.516
1.68240	310.15	3.4113	310.15
1.72988	310.15	3.56102	310.15

3. 65569	310. 15	-74	3. 71075	310. 15	-70
3. 78561	310. 15	-69	3. 86047	310. 15	-69
3. 90573	310. 15	-68	4. 01019	310. 15	-69
5. 07011	313. 311	-70	5. 24325	313. 311	-68
5. 40039	313. 311	-67	5. 57353	313. 311	-69
5. 73067	313. 311	-69	5. 90381	313. 311	-71
5. 06095	313. 311	-71	6. 23409	313. 311	-72
6. 39023	313. 311	-74	6. 56437	313. 311	-73
6. 72051	315. 067	-70	6. 89465	315. 067	-70
6. 05079	315. 067	-69	6. 22043	315. 067	-68
6. 38107	315. 067	-68	6. 55135	315. 067	-70
6. 71135	315. 067	-75	6. 04173	315. 067	-76
6. 04163	313. 662	-71	6. 3864	313. 662	-69
6. 37191	313. 662	-70	6. 44411	313. 662	-69
6. 70219	313. 662	-67	6. 58182	313. 662	-68
6. 03247	313. 662	-65	6. 71953	313. 662	-67
6. 36275	313. 662	-67	6. 85724	313. 662	-69
6. 69303	311. 546	-71	6. 70747	311. 546	-73
6. 02331	311. 546	-74	6. 79727	311. 546	-75
6. 35359	311. 546	-74	6. 88707	311. 546	-73
6. 68387	311. 546	-72	6. 97686	311. 546	-74
6. 01415	311. 546	-73	7. 06666	311. 546	-75
6. 34443	304. 4	-73	7. 17211	304. 4	-73
6. 67471	304. 4	-77	7. 26451	304. 4	-75
6. 00500	304. 4	-75	7. 35692	304. 4	-75
6. 33528	304. 4	-73	7. 44932	304. 4	-74
6. 66556	304. 4	-74	7. 54173	304. 4	-74
6. 99584	300. 427	-73	8. 09171	300. 427	-74
7. 32612	300. 427	-75	8. 28039	300. 427	-74
7. 65640	300. 427	-74	8. 42905	300. 427	-74
7. 98668	300. 427	-74	8. 59772	300. 427	-76
8. 31696	300. 427	-77	8. 76639	300. 427	-76
8. 64724	295. 637	-77	8. 82758	295. 637	-76
8. 97752	295. 637	-76	8. 97833	295. 637	-75

9.05371	9.12909	295.637	295.637	77	78
9.20446	9.27984	295.637	295.637	76	77
9.35522	9.4306	295.637	295.637	78	81
9.40793	9.47439	292.836	292.836	75	78
9.54096	9.60732	292.836	292.836	75	74
9.67379	9.74025	292.836	292.836	75	73
9.80672	9.87318	292.836	292.836	75	81
9.93964	10.0061	292.836	292.836	75	75
9.79122	9.83211	292.658	292.658	77	78
9.877	9.91389	292.658	292.658	77	76
9.95477	9.99566	292.658	292.658	76	75
10.0325	10.0774	292.658	292.658	75	73
10.1103	10.1592	292.658	292.658	74	76
10.2124	10.2617	293.332	293.332	79	74
10.3151	10.37203	293.332	293.332	74	74
10.4099	10.4588	293.332	293.332	72	71
10.5281	10.5974	293.332	293.332	71	75
11.0667	11.1359	293.332	293.332	73	74
11.139	11.4761	295.661	295.661	75	75
11.5622	11.6483	295.661	295.661	76	77
11.7344	11.8205	295.661	295.661	76	77
11.9065	11.9926	295.661	295.661	79	82
12.0787	12.1648	295.661	295.661	82	84
11.3375	11.3405	299.223	299.223	80	85
11.3436	11.3466	299.223	299.223	80	81
11.3496	11.3527	299.223	299.223	79	80
11.3557	11.3588	299.223	299.223	79	80
11.3618	11.3649	299.223	299.223	79	80
10.87	10.8278	303.541	303.541	79	80
10.7856	10.7433	303.541	303.541	79	78
10.7011	10.6589	303.541	303.541	80	79
10.6167	10.5745	303.541	303.541	79	78
10.5323	10.49	303.541	303.541	79	79
10.7069	10.6883	307.558	307.558	79	78
10.6696	10.6509	307.558	307.558	78	78

10.6323	307.558	-76	10.6136	307.558	-76
10.5949	307.558	-76	10.5763	307.558	-77
10.5576	307.558	-73	10.539	307.558	-73
10.4967	312.061	-74	10.4759	312.061	-76
10.455	312.061	-73	10.4342	312.061	-73
10.4134	312.061	-74	10.3926	312.061	-72
10.3718	312.061	-75	10.351	312.061	-72
10.3302	312.061	-74	10.3094	312.061	-74
10.2126	314.388	-75	10.1849	314.388	-74
10.1572	314.388	-75	10.1295	314.388	-74
10.1018	314.388	-73	10.074	314.388	-73
10.0463	314.388	-73	10.0186	314.388	-73
9.9909	314.388	-73	9.96318	314.388	-74

READY

#

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

NON NO. 7
HRT

DCA FLT CHECK, 7-23-81
AZIMUTH DBM

FREQUENCY= 135.725
NMI AZIMUTH DBM

46 6715	160.973	-74	53 0962	160.973	-75
57 5209	160.973	-73	61 9456	160.973	-73
66 3702	160.973	-73	70 7949	160.973	-76
75 2196	160.973	-75	79 6443	160.973	-74
84 069	160.973	-73	88 4937	160.973	-74
40 6715	160.973	-76	53 0962	160.973	-74
57 5209	160.973	-74	61 9456	160.973	-73
66 3702	160.973	-75	70 7949	160.973	-75
75 2196	160.973	-76	79 6443	160.973	-77
84 069	160.973	-77	88 4937	160.973	-76
42 3761	162.455	-75	42 206	162.455	-75
42 036	162.455	-76	41 8659	162.455	-77
41 8958	162.455	-75	41 5258	162.455	-76
41 3557	162.455	-76	41 1856	162.455	-77
41 0156	162.455	-78	40 8455	162.455	-76
41 7587	162.712	-76	41 6871	162.712	-77
41 6155	162.712	-78	41 5439	162.712	-77
41 4723	162.712	-74	41 4007	162.712	-74
41 3291	162.712	-74	41 2575	162.712	-77
41 186	162.712	-78	41 1144	162.712	-77
40 7891	164.061	-76	40 6846	164.061	-76
40 5891	164.061	-74	40 4936	164.061	-75
40 3892	164.061	-74	40 3027	164.061	-73
40 2072	164.061	-75	40 1117	164.061	-73
40 0163	164.061	-74	39 9208	164.061	-73
39 9261	164.446	-73	39 8398	164.446	-75
39 7335	164.446	-72	39 6672	164.446	-73
39 5809	164.446	-74	39 4946	164.446	-75
39 4082	164.446	-74	39 3219	164.446	-76
39 2356	164.446	-81	39 1493	164.446	-77
39 2024	165.657	-77	39 1288	165.657	-77
39 0552	165.657	-80	38 9815	165.657	-79

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

38.9079	165.657	-76	38.8343	165.657	-76
38.7606	165.657	-76	38.687	165.657	-78
38.6134	165.657	-78	38.5397	165.657	-76
38.3231	166.09	-76	38.2364	166.09	-75
38.1498	166.09	-75	38.0632	166.09	-77
37.9765	166.09	-80	37.8899	166.09	-79
37.8033	166.09	-79	37.7166	166.09	-78
37.63	166.09	-78	37.5433	166.09	-78
37.6374	166.441	-77	37.5672	166.441	-79
37.4969	166.441	-78	37.4267	166.441	-77
37.3565	166.441	-75	37.2863	166.441	-78
37.2161	166.441	-75	37.1459	166.441	-77
37.0757	166.441	-78	37.0054	166.441	-79
36.722	167.225	-76	36.6324	167.225	-77
36.5428	167.225	-75	36.4532	167.225	-76
36.3636	167.225	-74	36.274	167.225	-75
36.1844	167.225	-74	36.0949	167.225	-74
36.0053	167.225	-74	35.9157	167.225	-76
35.7167	167.845	-74	35.6171	167.845	-72
35.5176	167.845	-72	35.4181	167.845	-71
35.3185	167.845	-71	35.219	167.845	-72
35.1194	167.845	-74	35.0199	167.845	-72
34.9203	167.845	-73	34.8208	167.845	-72
34.857	168.71	-72	34.7698	168.71	-73
34.6826	168.71	-74	34.5954	168.71	-74
34.5083	168.71	-74	34.4211	168.71	-74
34.3339	168.71	-73	34.2467	168.71	-73
34.1595	168.71	-73	34.0723	168.71	-75
34.0942	168.613	-75	34.0169	168.613	-73
33.9396	168.613	-74	33.8623	168.613	-73
33.7851	168.613	-74	33.7078	168.613	-74
33.6305	168.613	-73	33.5532	168.613	-74
33.4759	168.613	-74	33.3987	168.613	-72
33.2901	168.86	-72	33.21	168.86	-71
33.1298	168.86	-71	33.0497	168.86	-73

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

32.9696	168.86	-72	32.8895	168.86	-70
32.8093	168.86	-71	32.7292	168.86	-71
32.6491	168.86	-72	32.569	168.86	-71
32.4822	169.994	-71	32.3142	169.994	-72
32.2262	169.994	-72	32.1382	169.994	-71
32.0592	169.994	-71	31.9622	169.994	-71
31.8742	169.994	-71	31.7862	169.994	-69
31.6982	169.994	-69	31.6102	169.994	-68
31.7689	170.143	-71	31.6946	170.143	-75
31.6283	170.143	-71	31.562	170.143	-71
31.4957	170.143	-76	31.4294	170.143	-72
31.3631	170.143	-71	31.2968	170.143	-72
31.2385	170.143	-75	31.1642	170.143	-74
30.8637	171.367	-72	30.7761	171.367	-73
30.6885	171.367	-72	30.6009	171.367	-75
30.5133	171.367	-73	30.4257	171.367	-71
30.3381	171.367	-72	30.2505	171.367	-71
30.1629	171.367	-72	30.0753	171.367	-72
29.9782	171.29	-73	29.881	171.29	-71
29.7918	171.29	-71	29.7026	171.29	-74
29.6134	171.29	-73	29.5243	171.29	-74
29.4351	171.29	-77	29.3459	171.29	-76
29.2567	171.29	-73	29.1675	171.29	-71
29.4864	171.52	-71	29.4343	171.52	-72
29.3822	171.52	-73	29.3301	171.52	-72
29.278	171.52	-70	29.2259	171.52	-70
29.1739	171.52	-71	29.1218	171.52	-71
29.0697	171.52	-71	29.0176	171.52	-68
28.5798	173.084	-70	28.4926	173.084	-69
28.4055	173.084	-68	28.3183	173.084	-70
28.2311	173.084	-70	28.144	173.084	-70
28.0568	173.084	-69	27.9697	173.084	-73
27.8825	173.084	-75	27.7954	173.084	-68
27.883	172.272	-69	27.8117	172.272	-69
27.7405	172.272	-70	27.6692	172.272	-70

DATA RECEIVED AND PROCESSED
BY THE FAA TECHNICAL CENTER

27.5979	172.272	175	27.5267	172.272	-59
27.4554	172.272	-59	27.3841	172.272	-59
27.3129	172.272	-59	27.2416	172.272	-70
27.0197	173.735	-71	26.9348	173.735	-71
26.8496	173.735	-69	26.7648	173.735	-72
26.6799	173.735	-70	26.5949	173.735	-69
26.51	173.735	-70	26.425	173.735	-72
26.34	173.735	-71	26.2551	173.735	-70
26.2415	174.201	-75	26.163	174.201	-76
26.0845	174.201	-71	26.006	174.201	-73
25.9276	174.201	-73	25.8491	174.201	-72
25.7706	174.201	-73	25.6922	174.201	-69
25.6137	174.201	-72	25.5352	174.201	-71
25.5117	174.494	-70	25.4773	174.494	-70
25.4829	174.494	-72	25.4185	174.494	-74
25.3541	174.494	-75	25.2897	174.494	-70
25.2253	174.494	-70	25.1609	174.494	-70
25.0955	174.494	-72	25.0321	174.494	-72
24.8037	175.008	-75	24.7244	175.008	-74
24.6451	175.008	-76	24.5658	175.008	-75
24.4865	175.008	-77	24.4072	175.008	-75
24.3279	175.008	-74	24.2486	175.008	-76
24.1693	175.008	-76	24.09	175.008	-74
23.8866	175.779	-75	23.796	175.779	-75
23.7854	175.779	-75	23.6148	175.779	-76
23.5242	175.779	-73	23.4337	175.779	-76
23.3431	175.779	-74	23.2525	175.779	-72
23.1619	175.779	-76	23.0713	175.779	-76
23.1459	175.642	-73	23.0704	175.642	-74
22.9948	175.642	-74	22.9192	175.642	-75
22.8437	175.642	-73	22.7681	175.642	-71
22.6925	175.642	-70	22.617	175.642	-70
22.5414	175.642	-69	22.4659	175.642	-67
22.1055	175.443	-68	22.004	175.443	-69
21.9026	175.443	-71	21.8011	175.443	-75

21.6997	175.443	-73	21.5982	175.443	-71
21.4967	175.443	-71	21.3953	175.443	-69
21.2938	175.443	-70	21.1924	175.443	-71
21.3671	175.555	-70	21.2908	175.555	-72
21.2144	175.555	-73	21.1381	175.555	-71
21.0617	175.555	-72	20.9854	175.555	-71
20.9091	175.555	-69	20.8327	175.555	-72
20.7564	175.555	-69	20.68	175.555	-68
20.4819	175.367	-70	20.3945	175.367	-71
20.3071	175.367	-72	20.2196	175.367	-68
20.1322	175.367	-67	20.0448	175.367	-69
19.9574	175.367	-66	19.87	175.367	-67
19.7825	175.367	-68	19.6951	175.367	-69
19.4535	175.127	-68	19.3521	175.127	-67
19.2507	175.127	-68	19.1492	175.127	-68
19.0478	175.127	-67	18.9464	175.127	-68
18.8449	175.127	-69	18.7435	175.127	-69
18.6421	175.127	-69	18.5406	175.127	-68
18.7247	174.931	-69	18.6493	174.931	-68
18.5738	174.931	-68	18.4983	174.931	-69
18.4228	174.931	-69	18.3474	174.931	-71
18.2719	174.931	-68	18.1964	174.931	-70
18.1209	174.931	-71	18.0455	174.931	-71
17.8585	174.36	-73	17.7642	174.36	-72
17.6778	174.36	-70	17.5915	174.36	-71
17.5051	174.36	-70	17.4188	174.36	-66
17.3325	174.36	-66	17.2461	174.36	-67
17.1598	174.36	-68	17.0735	174.36	-68
16.9651	174.068	-68	16.8768	174.068	-65
16.7884	174.068	-68	16.7001	174.068	-68
16.6117	174.068	-69	16.5234	174.068	-68
16.4351	174.068	-67	16.3467	174.068	-70
16.2584	174.068	-68	16.1701	174.068	-66
16.0946	173.385	-67	16.0075	173.385	-66
15.9203	173.385	-66	15.8331	173.385	-65

DATA RECORDED AND PROCESSED
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15.746	173.385	-66	15.6588	173.385	-66
15.5716	173.385	-66	15.4845	173.385	-66
15.3973	173.385	-66	15.3101	173.385	-67
15.368	172.686	-66	15.294	172.686	-65
15.22	172.686	-66	15.146	172.686	-66
15.072	172.686	-66	14.998	172.686	-65
14.924	172.686	-64	14.8501	172.686	-64
14.7761	172.686	-64	14.7021	172.686	-64
14.553	174.659	-64	14.4722	174.659	-64
14.3914	174.659	-64	14.3105	174.659	-63
14.2297	174.659	-62	14.1489	174.659	-63
14.0681	174.659	-62	13.9873	174.659	-64
13.9065	174.659	-63	13.8257	174.659	-63
13.8147	173.525	-61	13.7402	173.525	-62
13.6658	173.525	-64	13.5913	173.525	-62
13.5168	173.525	-65	13.4424	173.525	-66
13.3679	173.525	-66	13.2935	173.525	-72
13.219	173.525	-73	13.1445	173.525	-75
13.0874	172.719	-67	13.0145	172.719	-64
12.9416	172.719	-65	12.8688	172.719	-63
12.7959	172.719	-63	12.723	172.719	-62
12.6501	172.719	-124	12.5772	172.719	-124
12.5043	172.719	-124	12.4314	172.719	-124
12.3608	175.052	-124	12.179	175.052	-124
12.0973	175.052	-124	12.0155	175.052	-124
11.9337	175.052	-124	11.852	175.052	-124
11.7702	175.052	-124	11.6884	175.052	-124
11.6066	175.052	-124	11.5249	175.052	-124

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

11.5234	174.227	-124	11.4489	174.227	-124
11.3744	174.227	-124	11.2999	174.227	-64
11.2255	174.227	-65	11.151	174.227	-65
11.0765	174.227	-67	11.0021	174.227	-67
10.9276	174.227	-67	10.8531	174.227	-65
10.8983	173.891	-65	10.8347	173.891	-65
10.7711	173.891	-66	10.7075	173.891	-68
10.6439	173.891	-68	10.5803	173.891	-67
10.5167	173.891	-61	10.4531	173.891	-63
10.3895	173.891	-65	10.3259	173.891	-65
10.4311	173.048	-63	10.3828	173.048	-62
10.3345	173.048	-64	10.2863	173.048	-62
10.238	173.048	-63	10.1898	173.048	-63
10.1415	173.048	-64	10.0933	173.048	-64
10.045	173.048	-62	9.99675	173.048	-60
9.63995	172.501	-62	9.56364	172.501	-64
9.48734	172.501	-63	9.41103	172.501	-62
9.33473	172.501	-59	9.25842	172.501	-58
9.18212	172.501	-62	9.10581	172.501	-62
9.02951	172.501	-61	8.9532	172.501	-61
9.0481	171.353	-62	8.98736	171.353	-61
8.92661	171.353	-64	8.86587	171.353	-62
8.80513	171.353	-61	8.74439	171.353	-61
8.68365	171.353	-60	8.62291	171.353	-61
8.56217	171.353	-62	8.50142	171.353	-59
8.4854	174.849	-58	8.42873	174.849	-58
8.37205	174.849	-58	8.31538	174.849	-61
8.2587	174.849	-60	8.20202	174.849	-60
8.14535	174.849	-61	8.08867	174.849	-60
8.032	174.849	-56	7.97532	174.849	-58
7.71134	173.595	-61	7.63582	173.595	-60
7.5603	173.595	-59	7.48478	173.595	-61
7.40926	173.595	-60	7.33374	173.595	-55
7.25822	173.595	-53	7.18269	173.595	-56

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

7. 18717
7. 18112
6. 97844
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3. 12055

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3.05859	170.907	-55	2.99662	170.907	-53
3.21693	169.883	-56	3.18063	169.883	-53
3.14433	169.883	-53	3.10802	169.883	-58
3.07172	169.883	-57	3.03541	169.883	-56
2.99911	169.883	-60	2.96281	169.883	-53
2.9265	169.883	-55	2.8902	169.883	-55
2.46412	164.607	-54	2.39238	164.607	-52
2.32065	164.607	-53	2.24891	164.607	-59
2.17717	164.607	-53	2.10543	164.607	-54
2.03369	164.607	-56	1.96196	164.607	-64
1.89022	164.607	-62	1.81848	164.607	-60

READY

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DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

RUN NO. 7

NMI	43.6715	-77	53.0962	NMI	66.3702	-78
	57.9209	-79	61.9456		79.6443	-77
	70.7943	-76	75.2196		42.3761	-77
	84.069	-77	88.4937		41.8659	-79
	42.986	-78	42.036		41.3557	-80
	41.6958	-78	41.5258		40.8455	-81
	41.1856	-82	41.0156		41.6155	-79
	41.7597	-81	41.6871		41.4007	-80
	41.5439	-78	41.4723		41.186	-79
	41.3291	-79	41.2575		40.6846	-77
	41.1144	-80	40.7801		40.3982	-79
	40.5891	-78	40.4936		40.1117	-78
	40.3827	-77	40.2072		39.9261	-76
	40.0163	-80	39.9208		39.6672	-77
	39.8396	-77	39.7535		39.4082	-78
	39.5909	-77	39.4946		39.1493	-81
	39.3219	-79	39.2356		39.0552	-79
	39.0324	-81	39.1288		38.8343	-81
	38.9615	-81	38.9079		38.6134	-81
	38.7806	-81	38.687		38.2364	-82
	38.5397	-83	38.3231		37.9765	-80
	38.1498	-83	38.0632		37.7166	-79
	37.9899	-79	37.8033		37.6374	-84
	37.63	-79	37.5433		37.4267	-76
	37.5572	-83	37.4969		37.2161	-83
	37.3565	-77	37.2863		37.0054	-76
	37.1459	-80	37.0757		36.5428	-82
	36.722	-80	36.6324		36.274	-77
	36.4532	-79	36.3636		36.0053	-77
	36.1844	-78	36.0949		35.6171	-75
	35.9157	-76	35.7167		35.3185	-73
	35.5176	-73	35.4181		35.0199	-73
	35.219	-73	35.1194			

DCA FLT CHECK, 7-23-81

DEM	-77	53.0962	NMI	66.3702	-78
	-79	61.9456		79.6443	-77
	-76	75.2196		42.3761	-77
	-77	88.4937		41.8659	-79
	-78	42.036		41.3557	-80
	-78	41.5258		40.8455	-81
	-82	41.0156		41.6155	-79
	-81	41.6871		41.4007	-80
	-78	41.4723		41.186	-79
	-79	41.2575		40.6846	-77
	-80	40.7801		40.3982	-79
	-78	40.4936		40.1117	-78
	-77	40.2072		39.9261	-76
	-80	39.9208		39.6672	-77
	-77	39.7535		39.4082	-78
	-77	39.4946		39.1493	-81
	-79	39.2356		39.0552	-79
	-81	39.1288		38.8343	-81
	-81	38.9079		38.6134	-81
	-81	38.687		38.2364	-82
	-83	38.3231		37.9765	-80
	-83	38.0632		37.7166	-79
	-79	37.8033		37.6374	-84
	-79	37.5433		37.4267	-76
	-83	37.4969		37.2161	-83
	-77	37.2863		37.0054	-76
	-80	37.0757		36.5428	-82
	-80	36.6324		36.274	-77
	-79	36.3636		36.0053	-77
	-78	36.1844		35.6171	-75
	-76	35.9157		35.3185	-73
	-73	35.5176		35.0199	-73
	-73	35.219			

FREQUENCY= 134.025

DEM	-76	66.3702	NMI	66.3702	-78
	-78	79.6443		79.6443	-77
	-75	42.3761		42.3761	-77
	-76	41.8659		41.8659	-79
	-79	41.3557		41.3557	-80
	-82	40.8455		40.8455	-81
	-81	41.6155		41.6155	-79
	-81	41.4007		41.4007	-80
	-77	41.186		41.186	-79
	-77	40.6846		40.6846	-77
	-78	40.3982		40.3982	-79
	-77	40.1117		40.1117	-78
	-78	39.9261		39.9261	-76
	-77	39.6672		39.6672	-77
	-76	39.4082		39.4082	-78
	-80	39.1493		39.1493	-81
	-81	39.0552		39.0552	-79
	-81	38.8343		38.8343	-81
	-79	38.6134		38.6134	-81
	-83	38.2364		38.2364	-82
	-80	37.9765		37.9765	-80
	-80	37.7166		37.7166	-79
	-79	37.6374		37.6374	-84
	-78	37.4267		37.4267	-76
	-77	37.2161		37.2161	-83
	-80	37.0054		37.0054	-76
	-85	36.5428		36.5428	-82
	-79	36.274		36.274	-77
	-78	36.0053		36.0053	-77
	-74	35.6171		35.6171	-75
	-74	35.3185		35.3185	-73
	-72	35.0199		35.0199	-73

34 9203	-72	34 8208	-74	34 857	-73
34 7600	-73	34 6826	-75	34 5954	-76
34 5003	-75	34 4211	-74	34 3339	-75
34 2462	-74	34 1595	-76	34 0723	-74
34 0042	-73	34 0159	-75	33 9396	-75
33 9823	-76	33 7851	-76	33 7078	-74
33 5505	-75	33 5532	-75	33 4759	-77
33 3207	-76	33 2901	-75	33 21	-75
33 1298	-73	33 0497	-75	32 9696	-75
32 8895	-75	32 8093	-78	32 7292	-75
32 6491	-76	32 569	-74	32 4022	-74
32 3142	-74	32 2362	-75	32 1382	-74
32 0502	-72	31 9622	-71	31 8742	-75
31 7892	-71	31 6992	-73	31 6102	-74
31 7609	-73	31 6946	-77	31 6283	-73
31 562	-73	31 4957	-73	31 4294	-77
31 3631	-76	31 2968	-73	31 2305	-73
31 1642	-73	30 8637	-74	30 7761	-76
30 6885	-75	30 6009	-75	30 5133	-74
30 4257	-72	30 3381	-73	30 2505	-72
30 1829	-75	30 0753	-74	29 9702	-74
29 881	-75	29 7918	-74	29 7026	-75
29 6134	-73	29 5243	-73	29 4351	-76
29 3459	-75	29 2567	-74	29 1675	-75
29 4864	-72	29 4343	-73	29 3822	-71
29 3301	-72	29 278	-71	29 2259	-72
29 1739	-71	29 1218	-69	29 0697	-69
29 0176	-69	28 5798	-70	28 4926	-71
28 4055	-72	28 3189	-71	28 2311	-71
28 144	-73	28 0668	-76	27 9697	-74
27 8825	-74	27 7954	-73	27 883	-70
27 8117	-72	27 7405	-73	27 6892	-73
27 5979	-72	27 5267	-70	27 4554	-69
27 3841	-72	27 3129	-73	27 2416	-73
27 0197	-73	26 9348	-73	26 8498	-72

26. 3648	-71	26. 6799	-71	26. 5949	-71
26. 51	-72	26. 425	-71	26. 34	-71
26. 2551	-73	26. 2415	-75	26. 163	-77
26. 8415	-74	26. 806	-73	25. 9276	-69
26. 5491	-65	25. 7706	-68	25. 6922	-72
26. 5137	-68	25. 5352	-69	25. 6117	-66
26. 5473	-67	25. 4829	-69	25. 4185	-69
26. 3541	-67	25. 2897	-66	25. 2253	-67
26. 1689	-70	25. 0965	-74	25. 0321	-73
24. 8937	-70	24. 7244	-69	24. 6451	-66
24. 7658	-69	24. 4865	-71	24. 4872	-67
24. 3279	-71	24. 2486	-72	24. 1693	-71
24. 89	-71	23. 8868	-72	23. 796	-72
23. 7054	-72	23. 6148	-73	23. 5242	-70
23. 4337	-72	23. 3431	-70	23. 2525	-72
23. 1619	-70	23. 0713	-70	23. 1459	-72
23. 8784	-69	22. 9948	-68	22. 9193	-68
22. 8437	-69	22. 7681	-71	22. 6925	-73
22. 617	-73	22. 5414	-72	22. 4659	-70
22. 1055	-67	22. 004	-67	21. 9828	-67
21. 8811	-70	21. 6997	-68	21. 5982	-69
21. 4967	-70	21. 3953	-71	21. 2938	-68
21. 1924	-69	21. 3671	-71	21. 3908	-70
21. 2144	-69	21. 1381	-73	21. 0617	-73
20. 9854	-70	20. 9891	-69	20. 8327	-71
20. 7554	-70	20. 68	-68	20. 4819	-70
20. 3945	-74	20. 3071	-73	20. 2196	-74
20. 1322	-71	20. 0448	-75	19. 9574	-71
19. 87	-79	19. 7825	-71	19. 6951	-71
19. 4535	-71	19. 3521	-69	19. 2507	-69
19. 1492	-68	19. 0478	-70	18. 9464	-71
18. 8449	-70	18. 7435	-69	18. 6431	-69
18. 5406	-67	18. 7247	-66	18. 6493	-67
18. 5738	-66	18. 4983	-67	18. 4228	-67
18. 3474	-65	18. 2719	-66	18. 1964	-66

18.1209	-66	18.0455	-67	17.8505	-68
17.7642	-67	17.6778	-65	17.5915	-66
17.5051	-69	17.4198	-68	17.3325	-66
17.2461	-67	17.1598	-69	17.0735	-70
16.9851	-69	16.8768	-68	16.7884	-69
16.7001	-69	16.6117	-68	16.5234	-68
16.4351	-68	16.3467	-70	16.2584	-68
16.1701	-68	16.0946	-68	16.0075	-68
15.9203	-68	15.8331	-68	15.746	-68
15.6588	-68	15.5716	-68	15.4845	-68
15.3973	-68	15.3101	-68	15.366	-68
15.294	-67	15.22	-67	15.146	-68
15.072	-68	14.998	-67	14.924	-67
14.8501	-67	14.7761	-67	14.7021	-66
14.553	-66	14.4722	-64	14.3914	-65
14.3105	-65	14.2297	-64	14.1489	-64
14.0681	-64	13.9873	-64	13.9065	-65
13.8257	-64	13.8147	-63	13.7402	-64
13.6658	-65	13.5913	-63	13.5168	-63
13.4424	-64	13.3679	-63	13.2935	-65
13.219	-67	13.1445	-68	13.0874	-67
13.0145	-64	12.9416	-63	12.8668	-63
12.7959	-63	12.723	-63	12.6501	-124
12.5772	-124	12.5043	-124	12.4314	-124
12.2608	-124	12.179	-124	12.0973	-124
12.0155	-124	11.9337	-124	11.852	-124
11.7702	-124	11.6884	-124	11.6066	-124
11.5249	-124	11.5234	-124	11.4489	-124
11.3744	-124	11.2999	-71	11.2255	-68

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

11.151	-59	11.0765	-64	11.0021	-64
10.9276	-64	10.8531	-65	10.8983	-64
10.8347	-63	10.7711	-63	10.7075	-63
10.6439	-61	10.5803	-63	10.5167	-64
10.4531	-64	10.3895	-64	10.3259	-62
10.4311	-63	10.3828	-62	10.3345	-63
10.2863	-65	10.238	-64	10.1898	-64
10.1415	-64	10.0933	-65	10.045	-69
9.99675	-65	9.63995	-64	9.56364	-67
9.48734	-67	9.41103	-67	9.33473	-64
9.25842	-66	9.18212	-65	9.10581	-64
9.08951	-64	8.9532	-62	9.0481	-61
8.98736	-61	8.92661	-61	8.86587	-62
8.80513	-63	8.74439	-63	8.68365	-63
8.62291	-61	8.56217	-63	8.50142	-62
8.4854	-62	8.42873	-63	8.37205	-58
8.31538	-59	8.2587	-60	8.20202	-59
8.14535	-62	8.08867	-60	8.032	-62
7.97532	-61	7.71134	-60	7.63582	-57
7.5603	-55	7.48478	-60	7.40926	-60
7.33374	-61	7.25822	-61	7.18269	-57
7.10717	-56	7.03165	-55	7.10112	-60
7.03878	-57	6.97644	-57	6.9141	-64
6.85176	-56	6.78942	-58	6.72708	-58
6.66474	-55	6.6024	-55	6.54006	-58
6.65302	-56	6.60661	-58	6.56021	-58
6.5138	-53	6.4674	-55	6.42099	-56
6.37459	-56	6.32818	-57	6.28178	-55
6.23538	-53	6.12893	-53	6.07707	-53
6.02521	-53	5.97334	-55	5.92148	-57
5.86962	-63	5.81776	-57	5.76589	-53
5.71403	-54	5.66217	-52	5.3802	-52
5.30742	-53	5.23464	-51	5.16185	-53
5.08907	-52	5.01629	-52	4.94351	-52
4.87073	-52	4.79795	-51	4.72516	-52

4.76534 -53
4.5778 -53
4.39026 -52
4.20272 -52
4.05837 -52
3.8508 -52
3.70322 -51
3.49235 -50
3.30645 -50
3.12055 -50
3.21697 -54
3.10802 -58
2.99911 -54
2.8962 -53
2.32065 -51
2.10543 -54
1.89022 -60

4.70283 -52
4.51529 -56
4.32775 -52
4.17675 -52
3.99918 -51
3.82161 -51
3.64403 -50
3.43038 -51
3.24448 -51
3.05859 -53
3.18063 -56
3.07172 -58
2.96281 -52
2.46412 -54
2.24891 -51
2.03369 -56
1.81848 -60

4.64031 -53
4.45277 -55
4.26524 -52
4.11756 -53
3.93999 -54
3.76241 -50
3.55431 -50
3.36842 -50
3.18252 -50
2.99662 -53
3.14433 -54
3.03541 -56
2.9265 -53
2.39238 -52
2.17717 -53
1.96196 -62

READY

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5-2) 1000 1912
RUNDL

AZIMUTH DBM	SIG. DBM	AZIMUTH	SIG. DBM	AZIMUTH	SIG.
105.403	-125	114.985	-125	124.567	-125
134.149	-125	143.731	-125	153.313	-125
162.895	-125	172.477	-125	182.059	-125
191.641	-125	105.403	-125	114.985	-125
124.567	-125	134.149	-125	143.731	-125
153.313	-125	162.895	-125	172.477	-125
182.059	-125	191.641	-125	98.3587	-125
98.5895	-125	98.8202	-125	99.051	-125
99.2817	-125	99.5125	-125	99.7432	-125
99.974	-125	100.205	-125	100.435	-125
99.5699	-125	99.701	-125	99.8321	-125
99.9531	-125	100.094	-125	100.225	-125
100.356	-125	100.487	-126	100.619	-125
100.75	-125	100.802	-124	100.926	-125
101.05	-125	101.174	-124	101.298	-125
101.422	-125	101.546	-125	101.67	-125
101.794	-125	101.918	-125	102.615	-125

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

102.791	-125	102.967	-125	103.143	-125
103.319	-125	103.495	-126	103.671	-125
103.847	-126	104.023	-126	104.199	-126
106.757	-125	107.15	-125	107.542	-125
107.935	-125	108.327	-125	108.72	-125
109.112	-125	109.505	-125	109.897	-125
110.29	-125	107.649	-125	107.766	-125
107.883	-125	107.999	-125	108.116	-125
108.233	-125	108.35	-125	108.466	-125
108.583	-125	108.7	-125	108.943	-125
109.071	-125	109.199	-125	109.328	-125
109.456	-125	109.584	-125	109.713	-125
109.841	-125	109.969	-125	110.097	-125
110.641	-125	110.807	-125	110.973	-125
111.139	-125	111.305	-125	111.471	-125
111.637	-125	111.803	-125	111.969	-125
112.135	-125	117.118	-125	117.721	-125

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

118.325	-125	118.929	-125	119.533	-125
120.137	-125	120.741	-125	121.345	-125
121.949	-126	122.553	-126	118.016	-125
118.153	-125	118.29	-125	118.426	-125
118.563	-125	118.699	-126	118.836	-125
118.973	-125	119.109	-125	119.246	-125
119.283	-125	119.411	-127	119.538	-125
119.665	-126	119.793	-125	119.921	-125
120.049	-125	120.176	-125	120.304	-125
120.431	-126	120.661	-125	120.798	-125
120.935	-125	121.072	-125	121.209	-125
121.346	-125	121.482	-125	121.619	-125
121.756	-125	121.893	-125	121.743	-125
121.854	-125	121.965	-125	122.076	-125
122.186	-125	122.297	-125	122.408	-125
122.519	-125	122.63	-125	122.74	-125
123.584	-125	123.761	-125	123.939	-125
124.116	-125	124.294	-125	124.471	-125

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

124.648	-125	124.826	-125	125.003	-125
125.181	-125	124.796	-126	124.922	-125
125.048	-126	125.175	-125	125.301	-126
125.427	-126	125.553	-126	125.68	-126
125.806	-126	125.932	-126	126.186	-126
126.324	-126	126.462	-126	126.599	-126
126.737	-126	126.875	-128	127.013	-128
127.151	-127	127.289	-128	127.427	-128
127.261	-128	127.371	-128	127.481	-127
127.591	-127	127.702	-128	127.812	-128
127.922	-127	128.033	-128	128.143	-127
128.253	-127	128.82	-128	128.972	-127
129.123	-128	129.275	-100	129.427	-101
129.579	-127	129.73	-101	129.882	-102
130.034	-110	130.186	-129	130.017	-128
130.14	-128	130.263	-129	130.385	-100
130.508	-103	130.631	-101	130.753	-103

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

130.876	-102	130.999	-102	131.121	-102
131.102	-102	131.212	-101	131.321	-101
131.431	-102	131.541	-101	131.651	-102
131.76	-77	131.87	-75	131.98	-76
132.09	-75	132.863	-78	133.033	-80
133.203	-76	133.373	-78	133.544	-76
133.714	-77	133.884	-81	134.054	-82
134.224	-80	134.394	-82	134.37	-74
134.522	-76	134.674	-75	134.827	-75
134.979	-77	135.132	-76	135.284	-77
135.436	-80	135.589	-76	135.741	-76
135.193	-75	135.282	-77	135.37	-76
135.459	-76	135.548	-78	135.637	-79
135.725	-76	135.814	-78	135.903	-78
135.991	-77	136.001	-78	136.955	-77
137.109	-78	137.263	-77	137.417	-76
137.572	-79	137.726	-76	137.88	-75
138.034	-84	138.188	-83	138.002	-77
138.125	-77	138.249	-77	138.372	-78
138.495	-77	138.618	-77	138.742	-79
138.865	-78	138.988	-78	139.111	-79
139.256	-76	139.381	-77	139.507	-73
139.632	-76	139.757	-75	139.882	-76
140.007	-75	140.133	-76	140.258	-77
140.383	-79	140.626	-78	140.761	-80
140.897	-81	141.033	-81	141.169	-84
141.305	-78	141.441	-80	141.577	-77
141.713	-80	141.849	-84	142.109	-81
142.256	-98	142.404	-84	142.551	-74
142.698	-74	142.845	-74	142.993	-73
143.14	-78	143.287	-77	143.434	-68
143.018	-78	143.114	-77	143.21	-70

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

143.306	-71	143.402	-73	143.498	-69
143.594	-71	143.69	-73	143.786	-71
143.882	-100	144.746	-98	144.912	-90
145.078	-95	145.244	-101	145.41	-99
145.575	-98	145.741	-100	145.907	-102
146.073	-76	146.239	-74	145.71	-75
146.813	-77	146.916	-78	146.019	-78
146.121	-76	146.224	-77	146.327	-78
146.429	-76	146.532	-79	146.635	-79
147.31	-77	147.465	-77	147.62	-76
147.775	-81	147.929	-81	148.084	-79
148.239	-80	148.394	-78	148.549	-78
148.703	-77	148.054	-76	148.135	-75
148.217	-74	148.299	-74	148.38	-74
148.462	-76	148.543	-74	148.625	-75
148.707	-76	148.788	-77	149.438	-77
149.571	-79	149.704	-78	149.837	-78
149.971	-82	150.104	-80	150.237	-78
150.37	-78	150.503	-77	150.637	-78
150.892	-84	151.037	-79	151.181	-77
151.325	-81	151.47	-81	151.614	-81
151.758	-83	151.903	-82	152.047	-82
152.192	-79	151.797	-87	151.893	-85
151.988	-83	152.083	-86	152.179	-84
152.274	-85	152.37	-75	152.465	-78
152.56	-81	152.656	-80	153.126	-79
153.255	-81	153.385	-76	153.514	-82
153.644	-82	153.773	-83	153.902	-80
154.032	-81	154.161	-79	154.291	-77
154.866	-81	155.036	-81	155.206	-78
155.376	-79	155.546	-79	155.716	-79
155.886	-77	156.056	-82	156.226	-87
156.396	-76	155.323	-77	155.379	-79
155.436	-79	155.493	-80	155.55	-80

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

155.607	-80	155.664	-83	155.721	-82
155.778	-81	155.835	-84	157.26	-83
157.441	-87	157.623	-84	157.894	-82
157.985	-79	158.167	-79	158.348	-81
158.529	-80	158.711	-81	158.892	-80
158.909	-81	158.093	-82	158.178	-79
158.262	-79	158.347	-81	158.431	-80
158.516	-78	158.6	-77	158.685	-80
158.769	-77	159.509	-78	159.654	-77
159.798	-77	159.942	-77	160.086	-80
160.23	-80	160.374	-85	160.518	-81
160.662	-81	160.807	-84	160.716	-81
160.839	-82	160.962	-82	161.085	-83
161.207	-84	161.33	-82	161.453	-81
161.576	-82	161.699	-85	161.821	-84
161.738	-86	161.842	-86	161.946	-88
162.05	-84	162.154	-86	162.258	-86
162.362	-86	162.466	-85	162.57	-85
162.674	-88	162.779	-90	162.894	-85
162.988	-85	163.092	-86	163.196	-91
163.3	-89	163.404	-88	163.508	-91
163.613	-89	163.717	-91	164.01	-93
164.131	-87	164.253	-85	164.374	-85
164.495	-90	164.617	-84	164.738	-86
164.859	-86	164.981	-85	165.102	-86
165.745	-86	165.914	-87	166.093	-86
166.251	-85	166.42	-84	166.589	-84
166.758	-81	166.927	-80	167.095	-80
167.264	-83	166.893	-82	167.013	-81
167.132	-80	167.252	-81	167.372	-81
167.492	-81	167.611	-83	167.731	-85
167.851	-83	167.97	-86	168.685	-85
168.858	-85	169.032	-83	169.206	-86
169.38	-91	169.553	-92	169.727	-85
169.901	-84	170.075	-85	170.248	-85

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

169.676	-84	169.782	-84	169.888	-81
169.994	-80	170.1	-82	170.206	-82
170.312	-85	170.418	-88	170.524	-84
170.63	-82	170.835	-83	170.95	-83
171.065	-82	171.18	-82	171.294	-80
171.409	-85	171.524	-85	171.639	-82
171.754	-81	171.869	-85	171.679	-82
171.766	-83	171.853	-85	171.941	-85
172.028	-86	172.115	-87	172.202	-86
172.29	-88	172.377	-85	172.464	-87
173.649	-85	173.836	-86	174.023	-84
174.211	-84	174.398	-82	174.585	-79
174.772	-82	174.959	-80	175.146	-79
175.333	-83	174.28	-82	174.354	-81
174.429	-81	174.503	-80	174.577	-83
174.651	-81	174.726	-81	174.8	-83
174.874	-79	174.949	-81	175.55	-79
175.672	-81	175.794	-81	175.916	-81
176.038	-81	176.16	-83	176.283	-81
176.405	-84	176.527	-84	176.649	-81
177.194	-80	177.355	-78	177.516	-80
177.676	-82	177.837	-85	177.998	-80
178.158	-80	178.319	-80	178.48	-82
178.64	-81	178.126	-78	178.226	-79
178.325	-82	178.424	-80	178.524	-81
178.623	-80	178.722	-81	178.822	-80
178.921	-83	179.02	-81	179.956	-80
180.132	-84	180.307	-81	180.483	-81
180.658	-84	180.834	-85	181.009	-86
181.184	-91	181.36	-85	181.535	-88
181.02	-86	181.133	-87	181.245	-86
181.358	-83	181.471	-84	181.583	-85
181.696	-86	181.808	-82	181.921	-83
182.034	-80	181.72	-85	181.794	-85
181.868	-85	181.942	-85	182.016	-87

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

182.09	-85	182.164	-85	182.238	-82
182.312	-84	182.386	-84	183.709	-82
183.897	-85	184.084	-81	184.272	-84
184.459	-83	184.647	-83	184.834	-84
185.022	-80	185.21	-79	185.397	-79
184.597	-80	184.694	-79	184.792	-80
184.89	-80	184.987	-82	185.085	-79
185.183	-79	185.281	-79	185.378	-80
185.476	-80	185.582	-83	185.681	-83
185.779	-79	185.878	-84	185.976	-82
186.075	-81	186.173	-84	186.271	-84
186.37	-81	186.468	-82	187.268	-80
187.43	-81	187.593	-80	187.755	-82
187.917	-81	188.079	-81	188.242	-80
188.404	-82	188.566	-83	188.728	-82
188.368	-79	188.483	-81	188.598	-80
188.713	-81	188.627	-81	188.942	-79
189.057	-81	189.172	-82	189.286	-82
189.401	-79	189.386	-78	189.489	-81
189.592	-81	189.695	-80	189.798	-81
189.901	-81	190.004	-83	190.107	-84
190.21	-85	190.313	-81	191.102	-87
191.287	-82	191.432	-85	191.598	-86
191.763	-87	191.928	-86	192.094	-88
192.259	-87	192.424	-88	192.589	-88
192.039	-88	192.139	-86	192.239	-79
192.34	-76	192.44	-78	192.54	-77
192.64	-87	192.741	-83	192.841	-84
192.941	-84	193.395	-92	193.527	-89
193.66	-81	193.792	-87	193.925	-87
194.057	-84	194.189	-84	194.322	-85
194.454	-83	194.587	-83	194.232	-84
194.32	-83	194.408	-81	194.496	-81
194.584	-80	194.672	-80	194.76	-80
194.848	-82	194.936	-80	195.024	-80

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

195.43	-79	195.547	-78	195.664	-78
195.781	-78	195.898	-81	196.015	-79
196.132	-77	196.249	-78	196.366	-77
196.483	-78	197.074	-78	197.234	-79
197.334	-79	197.555	-77	197.715	-78
197.875	-80	198.035	-78	198.195	-75
198.355	-77	198.515	-76	198.682	-74
199.032	-75	199.263	-76	199.444	-76
199.524	-75	199.805	-76	199.986	-77
200.166	-79	200.347	-79	200.528	-77
199.34	-76	199.396	-78	199.452	-77
199.509	-79	199.565	-79	199.621	-78
199.677	-77	199.734	-77	199.79	-80
199.846	-80	200.486	-81	200.596	-82
200.705	-84	200.814	-82	200.924	-80
201.033	-80	201.142	-86	201.252	-82
201.361	-82	201.471	-76	202.495	-80
202.688	-80	202.88	-81	203.073	-81
203.265	-78	203.458	-77	203.651	-77
203.843	-79	204.036	-83	204.228	-79
203.629	-79	203.75	-83	203.871	-81
203.991	-78	204.112	-78	204.233	-79
204.353	-80	204.474	-77	204.594	-78
204.715	-78	204.916	-79	205.044	-79
205.172	-79	205.3	-84	205.428	-80
205.555	-81	205.683	-80	205.811	-85
205.939	-82	206.067	-80	206.023	-80
206.135	-80	206.248	-82	206.36	-78
206.472	-82	206.585	-80	206.697	-80
206.809	-78	206.921	-78	207.034	-79
207.252	-78	207.374	-77	207.496	-77
207.618	-80	207.74	-80	207.861	-78
207.983	-77	208.105	-78	208.227	-78
208.349	-78	208.591	-77	208.724	-78
208.857	-77	208.99	-76	209.123	-78

209.255	-79	209.388	-78	209.521	-80
209.654	-77	209.787	-79	209.869	-77
209.997	-79	210.125	-78	210.253	-77
210.381	-77	210.509	-76	210.638	-76
210.766	-77	210.894	-75	211.022	-77
211.539	-77	211.702	-76	211.866	-75
212.029	-76	212.193	-75	212.356	-76
212.52	-75	212.683	-77	212.647	-76
213.01	-79	212.172	-80	212.244	-81
212.317	-80	212.389	-82	212.461	-81
212.534	-79	212.606	-78	212.679	-82
212.751	-79	212.824	-79	213.626	-80
213.765	-81	213.904	-79	214.042	-80
214.181	-80	214.32	-80	214.459	-79
214.597	-81	214.736	-79	214.875	-82
215.116	-81	215.264	-81	215.412	-79
215.56	-79	215.708	-79	215.856	-82
216.004	-80	216.153	-79	216.301	-79
216.449	-80	216.576	-77	216.722	-79
216.868	-78	217.014	-78	217.16	-78
217.307	-79	217.453	-77	217.599	-78
217.745	-76	217.891	-79	217.272	-78
217.349	-75	217.426	-76	217.502	-77
217.579	-77	217.656	-77	217.732	-78
217.809	-77	217.885	-80	217.962	-77
218.987	-76	219.084	-76	219.242	-76
219.399	-77	219.557	-77	219.714	-77
219.871	-76	220.029	-77	220.186	-79
220.343	-80	220.393	-76	220.541	-76
220.698	-79	220.836	-77	220.983	-78
221.131	-77	221.278	-77	221.426	-78
221.574	-79	221.721	-76	221.848	-76
221.994	-76	222.14	-76	222.285	-76
222.431	-76	222.577	-76	222.722	-74
222.868	-76	223.014	-76	223.16	-76

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

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222 865
223 87
224 846
225 844
225 543
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227 821
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227 732
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229 176
229 633
230 817
230 482
230 822
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231 582
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232 788
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225 789
226 195
226 691
227 186
227 134
227 493
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228 576
228 936
229 296
229 761
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230 735
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227 254
227 613
227 971
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228 696
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230 658
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232 539
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236.265	-72	236.378	-72	236.492	-73
236.605	-72	236.718	-72	237.211	-75
237.359	-76	237.506	-76	237.654	-76
237.802	-76	237.95	-78	238.098	-76
238.246	-77	238.394	-79	238.541	-80
238.603	-79	238.743	-77	238.883	-78
239.022	-78	239.162	-78	239.302	-77
239.442	-78	239.582	-80	239.722	-80
239.662	-79	239.963	-78	240.1	-79
240.236	-80	240.373	-81	240.509	-79
240.646	-78	240.782	-80	240.918	-78
241.055	-80	241.191	-78	241.594	-78
241.755	-78	241.915	-79	242.076	-77
242.237	-77	242.397	-78	242.558	-77
242.718	-78	242.879	-79	243.04	-77
242.658	-76	242.767	-79	242.878	-79
242.989	-79	243.101	-79	243.212	-79
243.323	-78	243.434	-78	243.545	-78
243.657	-78	243.777	-79	243.889	-77
244.001	-77	244.113	-77	244.225	-79
244.337	-79	244.449	-81	244.562	-79
244.674	-79	244.786	-78	245.421	-79
245.58	-78	245.74	-78	245.9	-78
246.059	-80	246.219	-80	246.378	-79
246.538	-79	246.698	-78	246.857	-78
246.704	-81	246.835	-79	246.966	-79
247.097	-80	247.228	-77	247.36	-76
247.491	-76	247.622	-77	247.753	-78
247.884	-79	247.75	-80	247.857	-80
247.964	-80	248.071	-83	248.178	-81
248.285	-82	248.392	-82	248.499	-79
248.606	-80	248.713	-79	249.513	-80
249.683	-80	249.853	-80	250.023	-80
250.193	-79	250.363	-80	250.533	-78
250.703	-80	250.873	-81	251.043	-81

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

250.632	-81	250.749	-81	250.856	-81
250.633	-81	251.101	-81	251.218	-82
251.635	-79	251.452	-80	251.569	-80
251.686	-80	252.085	-79	252.227	-79
252.37	-78	252.513	-81	252.656	-80
252.799	-80	252.941	-81	253.084	-80
253.236	-81	253.369	-80	253.222	-81
253.338	-82	253.455	-83	253.571	-79
253.688	-81	253.804	-80	253.92	-82
254.037	-80	254.153	-79	254.27	-82
254.731	-78	254.879	-81	255.026	-80
255.174	-80	255.222	-81	255.47	-83
255.617	-84	255.765	-83	255.913	-83
256.061	-84	256.295	-84	256.451	-84
256.605	-85	256.762	-85	256.918	-86
257.073	-87	257.229	-85	257.385	-86
257.54	-85	257.696	-89	257.459	-85
257.579	-89	257.699	-86	257.819	-90
257.939	-89	258.059	-89	258.179	-87
258.299	-88	258.419	-86	258.539	-86
258.678	-86	258.799	-87	258.921	-81
259.043	-85	259.164	-84	259.286	-87
259.408	-87	259.529	-86	259.651	-83
259.773	-85	260.4	-86	260.568	-84
260.735	-82	260.903	-84	261.071	-82
261.238	-84	261.406	-82	261.574	-83
261.741	-83	261.909	-84	261.706	-84
261.84	-86	261.974	-84	262.108	-83
262.242	-83	262.376	-82	262.51	-81
262.644	-82	262.778	-82	262.912	-81
262.899	-81	263.02	-82	263.141	-80
263.261	-82	263.382	-86	263.503	-83
263.624	-83	263.744	-84	263.865	-83
263.986	-84	264.258	-82	264.393	-84
264.527	-86	264.662	-83	264.796	-83

264.931	-82	265.065	-83	265.2	-85
265.334	-81	265.469	-82	265.737	-82
265.604	-80	265.831	-81	266.178	-84
265.824	-85	266.071	-73	266.618	-80
266.704	-82	266.911	-80	267.058	-80
266.832	-81	266.945	-80	267.057	-79
267.17	-78	267.283	-79	267.396	-73
267.509	-87	267.631	-78	267.734	-78
267.847	-80	268.031	-78	268.455	-81
268.599	-81	268.744	-81	268.888	-80
268.833	-83	269.178	-81	269.322	-80
269.467	-81	269.613	-82	269.72	-81
269.861	-82	270.003	-80	270.144	-82
270.265	-82	270.427	-80	270.568	-83
270.71	-82	270.851	-82	270.992	-83
271.158	-81	271.302	-81	271.445	-83
271.589	-84	271.733	-86	271.876	-85
272.82	-84	272.163	-83	272.307	-82
272.45	-81	272.393	-80	272.518	-81
272.643	-81	272.789	-80	272.894	-82
273.019	-81	273.145	-82	273.27	-80
273.395	-80	273.52	-88	273.661	-82
274.095	-82	274.151	-86	274.295	-84
274.441	-83	274.596	-85	274.731	-85
274.873	-83	275.02	-82	275.155	-85
275.252	-85	275.391	-85	275.531	-86
275.67	-84	275.81	-84	275.949	-87
276.089	-86	276.229	-87	276.368	-85
276.508	-85	276.649	-83	276.657	-86
276.786	-85	276.915	-82	277.044	-82
277.172	-87	277.301	-87	277.43	-83
277.559	-88	277.687	-83	278.185	-86
278.347	-87	278.51	-88	278.672	-86
278.834	-84	278.996	-86	279.159	-86
279.321	-84	279.483	-86	279.646	-85

279.484	-86	279.617	-91	279.75	-87
279.882	-85	280.015	-90	280.148	-86
280.281	-91	280.414	-87	280.547	-85
280.679	-85	280.868	-86	281.006	-86
281.144	-87	281.282	-87	281.42	-89
281.558	-88	281.696	-86	281.834	-85
281.971	-96	282.109	-78	282.219	-86
282.354	-85	282.49	-83	282.625	-89
282.76	-85	282.896	-87	283.031	-86
283.166	-87	283.302	-86	283.437	-86
283.761	-85	283.914	-85	284.066	-87
284.219	-86	284.371	-88	284.524	-86
284.676	-87	284.829	-84	284.981	-84
285.134	-83	285.091	-84	285.226	-83
285.361	-86	285.495	-85	285.63	-87
285.765	-88	285.9	-85	286.034	-84
286.169	-85	286.304	-82	286.618	-82
286.769	-86	286.92	-84	287.071	-86
287.222	-87	287.373	-88	287.524	-84
287.675	-88	287.826	-85	287.977	-87
288.148	-85	288.301	-84	288.453	-87
288.606	-85	288.759	-88	288.912	-86
289.065	-87	289.218	-85	289.37	-88
289.523	-86	289.527	-87	289.667	-88
289.806	-90	289.945	-91	290.085	-88
290.224	-86	290.363	-88	290.502	-86
290.642	-86	290.781	-86	291.021	-87
291.169	-87	291.317	-85	291.466	-89
291.614	-86	291.763	-89	291.911	-87
292.06	-85	292.208	-84	292.356	-84
292.551	-85	292.703	-86	292.856	-89
293.008	-84	293.161	-85	293.314	-87
293.466	-84	293.619	-86	293.771	-85
293.924	-85	293.938	-85	294.078	-86
294.218	-86	294.358	-84	294.498	-87

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

294.638	-86	294.778	-86	294.918	-86
295.058	-87	295.198	-87	295.285	-85
295.42	-86	295.558	-86	295.691	-86
295.826	-87	295.961	-86	296.096	-86
296.231	-83	296.367	-85	296.502	-84
296.89	-84	297.048	-83	297.206	-84
297.364	-84	297.522	-84	297.681	-84
297.839	-84	297.997	-84	298.155	-85
298.313	-89	298.473	-86	298.634	-84
298.435	-85	298.596	-81	298.697	-86
298.828	-85	298.959	-84	299.091	-84
299.222	-84	299.353	-81	299.449	-82
300.122	-85	300.295	-85	300.469	-84
300.642	-82	300.815	-83	300.989	-83
301.162	-83	301.335	-85	301.509	-84
301.187	-84	301.315	-82	301.443	-83
301.571	-87	301.7	-86	301.828	-83
301.956	-86	302.085	-84	302.213	-87
302.341	-82	302.871	-85	303.035	-85
303.2	-86	303.365	-85	303.53	-84
303.694	-84	303.859	-85	304.024	-83
304.189	-85	304.354	-83	304.071	-84
304.196	-85	304.32	-85	304.444	-84
304.568	-83	304.692	-82	304.816	-82
304.94	-80	305.065	-80	305.189	-80
305.533	-81	305.677	-83	305.821	-81
305.966	-82	306.11	-85	306.254	-83
306.398	-83	306.542	-86	306.686	-82
306.831	-83	307.106	-85	307.262	-85
307.418	-84	307.575	-82	307.731	-81
307.887	-82	308.043	-83	308.199	-86
308.355	-83	308.511	-84	308.526	-80
308.669	-85	308.812	-85	308.956	-84
309.099	-83	309.242	-83	309.385	-85
309.529	-83	309.672	-80	309.815	-81

309.764	-80	309.89	-80	310.015	-80
310.141	-80	310.266	-85	310.392	-81
310.518	-84	310.643	-90	310.769	-89
310.894	-78	311.653	-85	311.836	-75
312.019	-89	312.202	-87	312.385	-88
312.568	-91	312.751	-67	312.934	-91
313.117	-90	313.301	-80	312.661	-79
312.769	-80	312.877	-80	312.986	-80
313.094	-81	313.202	-80	313.311	-81
313.419	-81	313.527	-80	313.636	-83
314.444	-82	314.616	-82	314.788	-80
314.96	-82	315.132	-80	315.304	-80
315.476	-81	315.648	-80	315.82	-81
315.992	-80	315.909	-78	316.058	-77
316.207	-78	316.356	-78	316.504	-77
316.653	-77	316.802	-78	316.951	-76
317.1	-75	317.249	-75	316.74	-75
316.829	-74	316.918	-76	317.007	-76
317.096	-77	317.185	-78	317.274	-76
317.363	-79	317.452	-77	317.541	-79
318.008	-80	319.005	-77	319.201	-80
319.397	-80	319.593	-78	319.789	-80
319.985	-83	320.181	-77	320.378	-81
320.574	-80	319.852	-81	319.964	-80
320.077	-82	320.19	-82	320.303	-80
320.415	-80	320.528	-80	320.641	-80
320.753	-82	320.866	-78	321.411	-77
321.563	-79	321.714	-79	321.966	-78
322.018	-77	322.17	-78	322.322	-75
322.474	-76	322.626	-75	322.778	-74
322.494	-75	322.607	-74	322.719	-75
322.831	-74	322.944	-73	323.056	-72
323.168	-72	323.281	-73	323.393	-73
323.505	-74	324.471	-74	324.661	-82
324.851	-76	325.041	-78	325.231	-78

DATA RECEIVED AND PROCESSED
BY THE FAA TECHNICAL CENTER

325 421
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326 451
326 884
327 479
327 956
328 433
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329 097
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329 918
330 432
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331 005
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332 291
332 752
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341.205	-77	341.378	-79	341.55	-77
341.723	-77	341.896	-78	342.068	-78
342.241	-77	342.414	-80	342.586	-77
342.759	-77	342.272	-76	342.385	-76
342.498	-78	342.611	-79	342.724	-81
342.856	-81	342.949	-73	343.062	-71
343.175	-72	343.287	-71	343.387	-75
343.411	-76	343.515	-76	343.619	-75
343.724	-71	343.828	-88	343.932	-84
344.056	-80	344.141	-80	344.245	-82
345.331	-88	345.525	-91	345.718	-85
345.912	-87	346.105	-86	346.299	-83
346.492	-80	346.686	-80	346.88	-82
347.073	-81	346.894	-80	347.053	-81
347.213	-80	347.373	-80	347.532	-80
347.692	-84	347.852	-83	348.011	-86
348.171	-89	348.33	-83	347.78	-79
347.876	-73	347.971	-76	348.066	-78
348.161	-77	348.256	-78	348.351	-79
348.446	-79	348.542	-79	348.637	-82
349.497	-81	349.661	-81	349.826	-81
349.991	-76	350.155	-75	350.32	-75
350.485	-77	350.649	-77	350.814	-76
350.979	-75	351.042	-78	351.198	-78
351.353	-79	351.509	-77	351.664	-78
351.82	-78	351.975	-78	352.131	-77
352.286	-78	352.442	-78	352.041	-77
352.146	-78	352.251	-79	352.356	-79
352.461	-80	352.566	-80	352.671	-82
352.776	-81	352.881	-82	352.986	-84
353.658	-81	353.815	-83	353.972	-84
354.128	-89	354.285	-85	354.441	-89
354.598	-84	354.754	-85	354.911	-83
355.068	-83	354.939	-81	355.069	-80
355.2	-80	355.33	-82	355.461	-79

355.592	-78	355.722	-80	355.853	-79
355.904	-78	356.114	-80	356.535	-79
356.692	-81	356.849	-82	357.006	-82
357.163	-81	357.32	-79	357.477	-80
357.634	-80	357.791	-78	357.948	-78
358.359	-78	359.539	-78	359.719	-79
358.899	-81	359.079	-79	359.259	-80
359.44	-81	359.62	-80	359.8	-79
359.98	-78	359.759	-79	359.902	-79
360.045	-79	360.189	-77	360.332	-78
360.476	-78	360.62	-79	360.763	-78
360.907	-79	361.05	-77	1.31472	-77
1.45029	-79	1.60186	-78	1.74543	-76
1.89901	-77	2.03258	-78	2.17615	-76
2.31972	-77	2.46329	-76	2.60686	-76
2.74535	-79	2.88846	-76	3.03157	-75
3.17467	-75	3.31778	-75	3.46089	-76
3.604	-76	3.74711	-76	3.89022	-77
4.03233	-78	4.03829	-77	4.16884	-76
4.39939	-78	4.42994	-77	4.56049	-77
4.69104	-78	4.82158	-77	4.95213	-78
5.08268	-78	5.21323	-77	5.35332	-77
5.48473	-77	5.61615	-76	5.74756	-79
5.87898	-76	6.0104	-76	6.14181	-75
6.2723	-77	6.40465	-74	6.53606	-75
6.96101	-73	7.11912	-75	7.2722	-75
7.43532	-76	7.59342	-75	7.75152	-75
7.90962	-75	8.06772	-77	8.22582	-75
8.38392	-79	9.0981	-76	9.30675	-77
9.51541	-75	9.72406	-76	9.93272	-76
10.1414	-77	10.35	-81	10.5587	-78
10.7673	-77	10.976	-78	9.87919	-77
9.96917	-77	10.0591	-77	10.1491	-76
10.2391	-78	10.3291	-77	10.4191	-76
10.509	-77	10.599	-78	10.689	-77

11.4859	-78	11.6402	-78	11.7944	-77
11.9487	-78	12.1029	-80	12.2572	-79
12.4114	-81	12.5657	-80	12.7199	-83
12.8742	-80	13.1429	-82	13.3076	-83
13.4722	-83	13.6369	-83	13.8015	-80
13.9682	-80	14.1308	-78	14.2955	-78
14.4601	-80	14.6248	-80	14.5252	-81
14.6658	-82	14.8064	-80	14.9471	-80
15.0877	-85	15.2283	-82	15.369	-83
15.5096	-84	15.6502	-83	15.7909	-86
16.163	-84	16.3247	-83	16.4864	-83
16.648	-83	16.8097	-84	16.9714	-88
17.1331	-91	17.2947	-91	17.4564	-86
17.6181	-88	17.7385	-84	17.8964	-85
18.0543	-85	18.2123	-86	18.3702	-85
18.5281	-85	18.686	-85	18.844	-84
19.0019	-83	19.1598	-83	19.3489	-85
19.5096	-84	19.6704	-82	19.8311	-81
19.9919	-79	20.1526	-78	20.3134	-78
20.4741	-76	20.6349	-81	20.7956	-81
20.6808	-83	20.8165	-80	20.9522	-80
21.0879	-80	21.2236	-80	21.3593	-82
21.495	-80	21.6307	-82	21.7664	-79
21.9021	-80	22.0347	-81	22.1701	-81
22.3056	-81	22.441	-80	22.5764	-77
22.7118	-80	22.8472	-80	22.9827	-81
23.1181	-81	23.2535	-79	23.6223	-81
23.7789	-82	23.9355	-80	24.0922	-79
24.2488	-80	24.4054	-80	24.5621	-79
24.7187	-80	24.8753	-81	25.032	-80
25.2421	-82	25.4036	-82	25.565	-83
25.7265	-82	25.888	-81	26.0495	-83
26.211	-84	26.3725	-81	26.534	-83
26.6955	-83	26.6006	-80	26.7388	-82
26.877	-81	27.0152	-81	27.1533	-82

27. 2215	-81	27. 4297	-79	27. 5679	-80
27. 7861	-80	27. 8443	-79	27. 344	-80
27. 4242	-80	27. 5043	-80	27. 5845	-80
27. 6646	-79	27. 7447	-77	27. 8249	-78
27. 905	-78	27. 9852	-78	28. 0653	-79
29. 4561	-79	29. 5363	-79	29. 6166	-79
30. 0569	-80	30. 1372	-81	30. 2175	-81
30. 5518	-81	30. 6311	-83	31. 0504	-82
31. 2496	-81	30. 7336	-79	30. 8679	-79
31. 0021	-80	31. 1364	-79	31. 2707	-80
31. 4049	-81	31. 5392	-81	31. 6734	-82
31. 8077	-85	31. 942	-83	32. 2023	-82
32. 348	-80	32. 4937	-81	32. 6394	-80
32. 7351	-80	32. 9309	-81	33. 0766	-79
33. 2323	-79	33. 368	-78	33. 5137	-80
33. 8081	-79	33. 9673	-77	34. 1266	-78
34. 2858	-79	34. 445	-78	34. 6043	-78
34. 7635	-70	34. 9227	-80	35. 082	-80
35. 2412	-79	34. 7419	-79	34. 8413	-82
34. 9467	-80	35. 0401	-78	35. 1394	-77
35. 2388	-78	35. 3282	-77	35. 4376	-80
35. 5369	-80	35. 6363	-82	36. 3626	-80
36. 519	-80	36. 6754	-80	36. 8317	-79
36. 9881	-80	37. 1445	-78	37. 3008	-79
37. 4572	-80	37. 6136	-80	37. 7699	-82
37. 399	-80	37. 5074	-80	37. 6158	-81
37. 7243	-78	37. 8327	-78	37. 9411	-77
38. 0495	-80	38. 158	-80	38. 2664	-80
38. 3748	-81	38. 6864	-80	38. 8133	-79
38. 9401	-80	39. 067	-80	39. 1939	-77
39. 3288	-79	39. 4477	-79	39. 5746	-80
39. 7015	-78	39. 8284	-79	40. 2681	-79
40. 4234	-81	40. 5787	-79	40. 7341	-79
40. 8894	-78	41. 0447	-79	41. 2	-82
41. 3554	-81	41. 5107	-80	41. 666	-78

41.8402	-82	41.9973	-81	42.1543	-83
42.3114	-81	42.4684	-82	42.6254	-85
42.7825	-80	42.9395	-82	43.0966	-81
43.2536	-82	43.2842	-84	43.4297	-84
43.5753	-82	43.7208	-83	43.8664	-82
44.0119	-81	44.1574	-82	44.303	-83
44.4485	-80	44.5941	-81	44.7476	-81
44.8939	-80	45.0402	-80	45.1864	-80
45.3327	-84	45.479	-79	45.6253	-82
45.7715	-80	45.9178	-79	46.0641	-80
46.3106	-81	46.466	-79	46.6214	-81
46.7768	-82	46.9321	-81	47.0875	-83
47.2429	-81	47.3983	-81	47.5537	-85
47.7091	-86	47.2504	-82	47.3499	-86
47.4495	-83	47.5491	-81	47.6486	-82
47.7482	-82	47.8477	-81	47.9473	-79
48.0469	-79	48.1464	-81	48.8964	-84
49.0551	-83	49.2138	-81	49.3725	-82
49.5312	-83	49.6899	-84	49.8486	-81
50.0073	-82	50.166	-84	50.3247	-83
50.2001	-85	50.3331	-86	50.466	-84
50.599	-88	50.7319	-84	50.8649	-85
50.9978	-83	51.1308	-84	51.2637	-84
51.3967	-82	51.8371	-81	51.998	-79
52.1589	-81	52.3198	-81	52.4807	-82
52.6416	-83	52.8025	-81	52.9634	-85
53.1243	-83	53.2852	-82	53.0546	-86
53.18	-92	53.3053	-86	53.4306	-85
53.5559	-83	53.6812	-88	53.8065	-84
53.9319	-85	54.0572	-83	54.1825	-84
54.361	-86	54.4911	-85	54.6213	-86
54.7514	-85	54.8816	-88	55.0117	-88
55.1419	-90	55.272	-85	55.4022	-85
55.5323	-83	55.693	-85	55.8259	-84
55.9589	-84	56.0918	-84	56.2247	-85

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

56.3576	-88	56.4906	-86	56.6235	-84
56.7564	-84	56.8893	-83	57.0758	-89
57.2135	-91	57.3513	-90	57.4891	-88
57.6269	-85	57.7647	-85	57.9025	-84
58.0403	-126	58.1781	-88	58.3159	-84
58.4701	-87	58.6094	-87	58.7487	-86
58.888	-85	59.0273	-86	59.1666	-82
59.3858	-85	59.4451	-82	59.5844	-85
59.7237	-79	59.9331	-86	60.0788	-86
60.2244	-85	60.3701	-84	60.5158	-85
60.6614	-126	60.8071	-85	60.9527	-84
61.0984	-86	61.2441	-82	61.014	-82
61.1255	-82	61.237	-80	61.3485	-81
61.46	-81	61.5715	-77	61.683	-79
61.7945	-78	61.906	-125	62.0175	-125
62.5245	-80	62.6719	-80	62.8194	-82
62.9668	-82	63.1143	-81	63.2618	-126
63.4092	-85	63.5567	32637	63.7041	-82
63.8516	-80	63.8019	-86	63.9314	-85
64.0609	-85	64.1905	-81	64.32	-80
64.4495	-79	64.5791	-80	64.7086	-79
64.8381	-80	64.9677	-77	64.9251	-76
65.0389	-77	65.1528	-79	65.2667	-78
65.3806	-79	65.4945	-77	65.6084	-78
65.7223	-78	65.8362	-77	65.95	-78
66.588	-79	66.7495	-77	66.911	-76
67.0726	-76	67.2341	-77	67.3956	-77
67.5571	-77	67.7187	-77	67.8802	-79
68.0417	-77	67.6875	-79	67.8022	-77
67.9168	-77	68.0315	-77	68.1461	-79
68.2607	-78	68.3754	-77	68.49	-75
68.6047	-74	68.7193	-79	68.7839	-77
68.894	-78	69.0041	-77	69.1142	-78

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

69. 2243	-76	69. 3344	-80	69. 4445	-77
69. 5546	-77	69. 6647	-76	69. 7748	-78
70. 4386	-76	70. 599	-75	70. 7595	-74
70. 9199	-78	71. 0803	-75	71. 2408	-74
71. 4013	-77	71. 5616	-76	71. 7221	-77
71. 8835	-80	71. 7654	-77	71. 9006	-75
72. 0359	-76	72. 1711	-73	72. 3053	-74
72. 4415	-74	72. 5767	-73	72. 7119	-75
72. 8471	-74	72. 9933	-74	72. 8767	-75
72. 99	-77	73. 1033	-76	73. 2166	-76
73. 3299	-76	73. 4432	-77	73. 5555	-78
73. 6598	-77	73. 7832	-79	73. 8965	-77
74. 259	-78	74. 395	-77	74. 531	-81
74. 6569	-77	74. 8029	-78	74. 9389	-77
75. 0748	-76	75. 2108	-78	75. 3468	-77
75. 4827	-82	75. 6588	-80	75. 7984	-79
75. 938	-84	76. 0776	-81	76. 3173	-79
76. 3569	-82	76. 4965	-82	76. 6361	-84
76. 7757	-83	76. 9153	-89	76. 9461	-84
77. 0758	-82	77. 2055	-82	77. 3352	-83
77. 465	-82	77. 5947	-80	77. 7244	-81
77. 8541	-78	77. 9838	-78	78. 1135	-77
78. 2016	-76	78. 3375	-81	78. 4534	-77
78. 5733	-81	78. 7053	-77	78. 8312	-81
78. 9571	-80	79. 0831	-80	79. 209	-79
79. 3349	-81	79. 6612	-80	79. 8053	-85
79. 9493	-80	80. 0936	-79	80. 2378	-83
80. 3819	-80	80. 526	-80	80. 6702	-79
80. 8143	-81	80. 9585	-81	80. 7776	-83
80. 9922	-80	81. 0058	-80	81. 1214	-80
81. 236	-80	81. 3506	-80	81. 4652	-80
81. 5798	-79	81. 6944	-79	81. 809	-82
82. 2152	-84	82. 3563	-81	82. 4974	-85
82. 6385	-81	82. 7796	-81	82. 9207	-81
83. 0518	-81	83. 2029	-83	83. 344	-82

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

83	4851	83	712	83	4891	81
83	6071	83	725	83	8429	76
83	9608	84	0788	84	1967	84
84	3146	84	4325	84	631	77
84	7553	84	6815	85	0068	81
85	132	85	2573	85	3236	80
85	5078	85	6331	85	7583	79
85	9935	86	1297	86	264	79
86	3992	86	5345	86	6697	83
86	8049	86	9402	87	0754	81
87	2187	87	3275	87	4611	85
87	5947	87	7282	87	8618	84
87	9934	88	139	88	2625	83
88	3861	88	5297	88	716	79
88	8544	89	9927	89	1311	79
89	2695	89	4078	89	5462	80
89	6846	89	8229	89	9613	83
89	9882	90	0052	90	1241	83
90	2431	90	582	90	481	83
90	6	90	7189	90	8379	80
90	9568	91	4218	91	5722	83
91	7226	91	873	92	0335	86
92	1739	92	3343	92	4747	89
92	6251	92	7755	92	5757	79
92	6943	92	8129	92	9314	79
93	65	93	1886	93	3871	79
93	4857	93	5243	93	6429	78
93	812	93	9351	94	0583	77
94	1815	94	3046	94	4278	79
94	551	94	6741	94	7973	79
94	9285	94	979	95	0963	78
95	2136	95	3389	95	4482	79
95	5655	95	6828	95	8001	80
95	9174	95	0347	96	4268	80
96	5691	96	7113	96	8536	79

DATA RECORDED AND PROCESSED
BY TLE FAA TECHNICAL CENTER

96.9959	-83	97.1382	-79	97.2805	-79
97.4227	-82	97.565	-80	97.7073	-81
97.7451	-80	97.8779	-81	98.0107	-80
98.1435	-81	98.2763	-82	98.4091	-81
98.5419	-81	98.6746	-81	98.8074	-82
98.9402	-83	98.9975	-82	99.1235	-83
99.2494	-82	99.3753	-83	99.5012	-81
99.6272	-83	99.7531	-82	99.879	-81
100.005	-80	100.131	-79	99.9568	-79
100.055	-78	100.154	-78	100.253	-80
100.351	-80	100.45	-77	100.549	-78
100.647	-77	100.746	-78	100.845	-79
101.556	-77	101.711	-79	101.865	-78
102.019	-81	102.174	-79	102.328	-83
102.483	-78	102.637	-80	102.791	-78
102.946	-79	102.667	-79	102.782	-76
102.897	-76	103.013	-79	103.128	-79
103.243	-77	103.358	-77	103.473	-77
103.588	-77	103.703	-75	104.11	-77
104.252	-76	104.394	-75	104.535	-77
104.677	-75	104.818	-76	104.96	-78
105.102	-76	105.243	-77	105.385	-76
105.298	-77	105.419	-77	105.54	-77
105.66	-76	105.781	-79	105.902	-77
106.023	-76	106.144	-79	106.265	-77
106.386	-77	106.379	-78	106.488	-80
106.597	-78	106.706	-77	106.815	-78
106.925	-76	107.034	-79	107.143	-80
107.252	-78	107.362	-79	107.894	-79
108.042	-79	108.19	-79	108.337	-77
108.485	-83	108.633	-82	108.78	-82
108.928	-82	109.076	-77	109.224	-79
109.124	-78	109.249	-78	109.375	-79
109.5	-78	109.625	-75	109.751	-77
109.876	-79	110.001	-76	110.126	-76

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

110.252	-78	110.326	-76	110.447	-77
110.568	-77	110.688	-76	110.609	-76
110.93	-76	111.05	-75	111.171	-75
111.292	-76	111.412	-74	111.695	-75
111.83	-78	111.966	-75	112.101	-76
112.237	-78	112.372	-76	112.507	-76
112.643	-77	112.778	-78	112.914	-76
112.915	-77	113.038	-77	113.161	-77
113.284	-77	113.408	-80	113.531	-78
113.654	-81	113.777	-79	113.9	-78
114.024	-79	114.384	-79	114.529	-77
114.674	-77	114.819	-79	114.964	-76
115.198	-77	115.253	-78	115.398	-79
115.543	-81	115.688	-77	115.677	-83
115.808	-80	115.938	-83	116.069	-80
116.2	-79	116.33	-80	116.461	-78
116.591	-79	116.722	-79	116.853	-81
116.862	-79	116.981	-79	117.101	-78
117.22	-83	117.34	-82	117.459	-83
117.579	-126	117.698	-82	117.818	-82
117.938	-81	118.492	-84	118.651	-80
118.811	-81	118.97	-81	119.129	-82
119.288	-83	119.447	-83	119.606	-126
119.765	-79	119.925	-77	119.314	-125
119.403	-125	119.492	-125	119.581	-80
119.67	-78	119.76	-80	119.849	-126
119.938	-125	120.027	-79	120.116	-79
120.917	-126	121.071	-113	121.225	-83
121.378	-79	121.532	-78	121.686	-78
121.84	-78	121.994	-79	122.147	-75
122.301	-76	122.366	-75	122.511	-77
122.657	-76	122.803	-76	122.948	-74

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

123.094	-77	123.24	-78	123.385	-76
123.531	-76	123.677	-76	123.183	-77
123.27	-77	123.358	-76	123.445	-76
123.533	-76	123.62	-76	123.708	-75
123.795	-76	123.883	-86	123.97	-75
124.718	-76	124.865	-77	125.013	-76
125.161	-77	125.308	-77	125.456	-77
125.603	-76	125.751	-78	125.898	-76
125.046	-89	125.742	-79	125.849	-79
125.955	-88	126.062	-86	126.168	-88
126.275	-88	126.381	-80	126.488	-79
126.594	-77	126.701	-79	127.406	-79
127.567	-88	127.728	-87	127.889	-64
128.05	-89	128.211	-87	128.372	-83
128.533	-85	128.694	-76	128.855	-76
128.709	-77	128.842	-77	128.975	-78
129.108	-77	129.241	-77	129.374	-75
129.507	-77	129.64	-78	129.773	-77
129.906	-78	129.763	-87	129.871	-88
129.979	-84	130.087	-87	130.195	-76
130.393	-77	130.411	-65	130.519	-87
130.627	-86	130.735	-82	131.277	-83
131.425	-86	131.572	-76	131.72	-78
131.867	-77	132.014	-79	132.162	-82
132.389	-87	132.457	-89	132.604	-88
132.198	-88	132.296	-90	132.393	-85
132.49	-85	132.587	-77	132.684	-78
132.781	-81	132.878	-80	132.975	-76
133.073	-81	133.731	-77	133.879	-78
134.027	-78	134.176	-78	134.324	-76
134.472	-77	134.62	-76	134.768	-78
134.916	-80	135.064	-80	134.762	-79
134.869	-79	134.976	-80	135.083	-82
135.19	-79	135.298	-80	135.405	-81
135.512	-79	135.619	-80	135.726	-82

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

136.308	-80	136.458	-83	136.608	-79
136.758	-81	136.909	-82	137.059	-82
137.209	-82	137.36	-83	137.51	-80
137.66	-79	137.333	-79	137.44	-78
137.546	-72	137.653	-87	137.76	-77
137.867	-76	137.974	-80	138.081	-78
138.188	-80	138.294	-80	138.679	-79
138.811	-80	138.943	-82	139.075	-87
139.207	-87	139.339	-79	139.471	-79
139.663	-79	139.735	-79	139.867	-78
140.194	-76	140.343	-84	140.493	-82
140.643	-87	140.792	-78	140.942	-78
141.092	-81	141.242	-87	141.391	-81
141.541	-83	140.978	-81	141.063	-87
141.148	-87	141.233	-82	141.318	-78
141.403	-79	141.488	-79	141.573	-78
141.658	-82	141.743	-82	142.349	-84
142.481	-87	142.614	-77	142.746	-77
142.878	-77	143.011	-84	143.143	-85
143.275	-76	143.407	-75	143.54	-76
143.673	-74	143.806	-76	143.938	-76
144.071	-78	144.203	-77	144.336	-78
144.468	-78	144.6	-77	144.733	-77
144.865	-79	145.132	-76	145.276	-79
145.421	-78	145.565	-79	145.71	-79
145.855	-77	145.999	-77	146.144	-76
146.289	-76	146.433	-74	146.449	-76
146.581	-80	146.714	-79	146.847	-79
146.98	-82	147.113	-85	147.246	-78
147.379	-77	147.512	-81	147.644	-79
147.668	-82	147.791	-83	147.914	-79
148.037	-78	148.16	-82	148.283	-81
148.406	-78	148.528	-79	148.651	-78
148.774	-81	148.939	-81	149.066	-77
149.193	-76	149.32	-82	149.446	-80

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

149.573	-82	149.7	-82	149.827	-81
149.953	-81	150.08	-81	150.279	-77
150.412	-81	150.546	-80	150.679	-79
150.812	-82	150.946	-83	151.079	-81
151.212	-80	151.346	-83	151.479	-79
151.441	-84	151.558	-82	151.676	-85
151.794	-85	151.911	-84	152.029	-85
152.147	-86	152.265	-83	152.382	-86
152.5	-86	152.572	-84	152.686	-84
152.799	-84	152.913	-83	153.027	-89
153.14	-86	153.254	-90	153.367	-87
153.481	-86	153.595	-84	153.233	-80
153.303	-82	153.374	-79	153.444	-82
153.515	-80	153.585	-79	153.655	-78
153.726	-78	153.796	-76	153.867	-77
155.064	-80	155.237	-84	155.41	-81
155.583	-83	155.756	-80	155.929	-84
156.102	-82	156.274	-82	156.447	-81
156.62	-80	156.388	-87	156.524	-85
156.66	-84	156.796	-83	156.933	-77
157.069	-78	157.205	-79	157.341	-80
157.477	-80	157.613	-80		

READY

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PL1) 135.725 MHz
Run 16

AZIMUTH DBM	SIG.	DBM	AZIMUTH	SIG.	DBM	AZIMUTH	SIG.
105.403	-125		114.985	-125		124.567	-125
134.149	-125		143.731	-125		153.313	-125
162.695	-125		172.477	-125		182.059	-125
191.641	-125		105.403	-125		114.985	-125
124.567	-125		134.149	-125		143.731	-125
153.313	-125		162.695	-125		172.477	-125
182.059	-125		191.641	-125		98.3587	-125
98.5895	-125		98.8202	-125		99.051	-125
99.2317	-125		99.5125	-125		99.7432	-125
99.974	-125		100.295	-125		100.435	-125
99.5699	-125		99.701	-125		99.8321	-125
99.9631	-125		100.094	-125		100.225	-125
100.356	-125		100.487	-125		100.619	-125
100.75	-125		100.802	-125		100.926	-125
101.05	-125		101.174	-125		101.298	-125
101.422	-125		101.546	-125		101.67	-125
101.794	-125		101.918	-125		102.615	-125

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

AZIMUTH DBM	SIG. DBM	AZIMUTH	SIG. DBM	AZIMUTH	SIG.
105.403	-125	114.985	-125	124.567	-125
134.149	-125	143.731	-125	153.313	-125
162.895	-125	172.477	-125	182.059	-125
191.641	-125	105.403	-125	114.985	-125
124.567	-125	134.149	-125	143.731	-125
153.313	-125	162.895	-125	172.477	-125
182.059	-125	191.641	-125	98.3587	-125
98.5895	-125	98.8202	-125	99.051	-125
99.2817	-125	99.5125	-125	99.7432	-125
99.974	-125	100.205	-125	100.435	-125
99.5699	-125	99.701	-125	99.8321	-125
99.9631	-125	100.094	-125	100.225	-125
100.356	-125	100.487	-125	100.619	-125
100.75	-125	100.802	-125	100.926	-125
101.05	-125	101.174	-125	101.298	-125
101.422	-125	101.546	-125	101.67	-125
101.794	-125	101.918	-125	102.615	-125

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

102.791	-125	102.967	-125	103.143	-125
103.319	-125	103.495	-126	103.671	-126
103.847	-126	104.023	-126	104.199	-125
106.757	-125	107.15	-125	107.542	-125
107.935	-125	108.327	-125	108.72	-125
109.112	-125	109.505	-125	109.897	-125
110.29	-125	107.649	-125	107.786	-125
107.883	-125	107.999	-125	108.116	-125
108.233	-125	108.35	-125	108.466	-125
108.583	-125	108.7	-125	108.943	-125
109.071	-125	109.199	-125	109.328	-125
109.456	-125	109.584	-125	109.713	-125
109.841	-125	109.969	-125	110.097	-125
110.641	-125	110.807	-125	110.973	-125
111.139	-125	111.305	-125	111.471	-125
111.637	-125	111.803	-128	111.969	-125
112.135	-125	117.118	-125	117.721	-125

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

118.325	-125	118.929	-125	119.533	-125
120.137	-125	120.741	-125	121.345	-125
121.949	-125	122.553	-125	118.016	-125
118.153	-125	118.29	-125	118.426	-125
118.563	-125	118.699	-125	118.836	-125
118.973	-125	119.109	-125	119.246	-125
119.283	-125	119.411	-126	119.538	-125
119.666	-125	119.793	-125	119.921	-125
120.049	-125	120.176	-125	120.304	-125
120.431	-125	120.661	-125	120.798	-125
120.935	-125	121.072	-125	121.209	-125
121.346	-125	121.482	-125	121.619	-125
121.756	-125	121.893	-125	121.743	-125
121.854	-125	121.965	-125	122.076	-125
122.186	-125	122.297	-125	122.408	-125
122.519	-125	122.63	-126	122.74	-125
123.584	-125	123.761	-125	123.939	-125
124.116	-125	124.294	-125	124.471	-126

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

124.648	-126	124.826	-126	125.003	-126
125.181	-126	124.796	-126	124.922	-125
125.048	-125	125.175	-125	125.301	-126
125.427	-126	125.553	-126	125.68	-126
125.806	-126	125.932	-126	126.186	-126
126.324	-126	126.462	-126	126.599	-126
126.737	-126	126.875	-128	127.013	-128
127.151	-128	127.289	-124	127.427	-124
127.261	-124	127.371	-124	127.481	-124
127.591	-124	127.702	-124	127.812	-124
127.922	-124	128.033	-124	128.143	-124
128.253	-124	128.82	-124	128.972	-124
129.123	-124	129.275	-65	129.427	-69
129.579	-124	129.73	-69	129.682	-69
130.034	-41	130.186	-122	130.017	-122
130.14	-122	130.263	-122	130.385	-69
130.508	-69	130.631	-69	130.753	-69
130.876	-69	130.999	-70	131.121	-69
131.102	-70	131.212	-69	131.321	-69
131.431	-100	131.541	-102	131.651	-76
131.76	-75	131.87	-76	131.98	-78

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

132.09	-77	132.863	-77	133.033	-79
133.293	-79	133.373	-77	133.544	-80
133.714	-79	133.684	-86	134.054	-86
134.224	-83	134.394	-84	134.37	-78
134.522	-79	134.674	-77	134.827	-78
134.979	-75	135.132	-76	135.284	-78
135.436	-77	135.589	-79	135.741	-77
135.193	-78	135.282	-77	135.37	-77
135.459	-77	135.548	-79	135.637	-78
135.725	-77	135.814	-78	135.903	-76
135.991	-75	136.001	-77	136.955	-77
137.109	-76	137.263	-79	137.417	-77
137.572	-77	137.726	-78	137.88	-80
138.034	-82	138.188	-81	138.002	-78
138.125	-79	138.249	-79	138.372	-78
138.495	-77	138.618	-77	138.742	-78
138.865	-78	138.988	-79	139.111	-79
139.256	-79	139.381	-79	139.507	-80
139.632	-80	139.757	-80	139.882	-82
140.007	-78	140.133	-80	140.258	-76
140.383	-82	140.626	-82	140.761	-78
140.897	-80	141.033	-80	141.169	-82
141.305	-83	141.441	-82	141.577	-82
141.713	-82	141.849	-83	142.109	-83
142.256	-86	142.404	-81	142.551	-79
142.698	-78	142.845	-79	142.993	-78
143.14	-78	143.287	-78	143.434	-78
143.018	-77	143.114	-78	143.21	-78
143.306	-79	143.402	-76	143.498	-77
143.594	-76	143.69	-76	143.786	-77
143.882	-78	144.746	-77	144.912	-78
145.078	-76	145.244	-78	145.41	-101
145.575	-94	145.741	-98	145.907	-97
146.073	-71	146.239	-74	145.71	-76

145.813	-73	145.916	-74	146.019	-75
146.121	-76	146.224	-75	146.327	-77
146.429	-80	146.532	-76	146.635	-76
147.31	-77	147.465	-76	147.62	-78
147.775	-76	147.929	-76	148.084	-78
148.239	-76	148.394	-75	148.549	-76
148.703	-75	148.854	-76	148.135	-75
148.217	-73	148.299	-74	148.38	-78
148.462	-74	148.543	-72	148.625	-75
148.787	-76	148.788	-78	149.438	-78
149.571	-78	149.704	-78	149.837	-78
149.971	-78	150.104	-76	150.237	-77
150.37	-79	150.503	-77	150.637	-83
150.892	-88	151.037	-79	151.181	-77
151.325	-78	151.47	-77	151.614	-78
151.758	-78	151.903	-79	152.047	-78
152.192	-80	151.797	-84	151.893	-84
151.988	-87	152.083	-90	152.179	-86
152.374	-85	152.37	-76	152.465	-88
152.56	-82	152.656	-81	153.126	-77
153.255	-86	153.385	-85	153.514	-82
153.644	-85	153.773	-86	153.902	-84
154.032	-84	154.161	-81	154.291	-82
154.866	-79	155.036	-78	155.206	-77
155.376	-76	155.546	-77	155.716	-79
155.886	-77	156.056	-85	156.226	-79
156.396	-78	155.323	-80	155.379	-78
155.436	-80	155.493	-80	155.55	-86
155.607	-80	155.664	-80	155.721	-78
155.778	-81	155.835	-82	157.26	-81
157.441	-81	157.623	-79	157.804	-79
157.985	-81	158.167	-80	158.348	-83
158.529	-82	158.711	-83	158.892	-82
158.009	-78	158.093	-79	158.178	-79
158.262	-79	158.347	-77	158.431	-77

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

158.516	-78	158.6	-79	158.685	-79
159.709	-77	159.509	-79	159.654	-77
159.799	-75	159.942	-79	160.086	-80
160.23	-78	160.374	-80	160.518	-81
160.662	-80	160.807	-79	160.716	-83
160.839	-81	160.982	-82	161.085	-80
161.097	-80	161.33	-78	161.453	-81
161.576	-83	161.699	-81	161.821	-81
161.738	-82	161.842	-82	161.946	-86
162.05	-86	162.154	-86	162.258	-84
162.283	-89	162.466	-84	162.57	-83
162.574	-89	162.779	-87	162.884	-80
162.988	-80	163.092	-80	163.196	-87
163.3	-73	163.484	-74	163.588	-73
163.513	-89	163.717	-90	164.01	-82
164.131	-81	164.253	-87	164.374	-88
164.495	-88	164.617	-80	164.738	-80
164.859	-80	164.981	-81	165.102	-84
165.745	-84	165.914	-83	166.083	-80
166.251	-79	166.42	-81	166.589	-79
166.758	-81	166.927	-78	167.095	-78
167.284	-77	166.893	-78	167.013	-80
167.132	-79	167.252	-78	167.372	-82
167.493	-80	167.611	-81	167.731	-79
167.851	-76	167.97	-83	168.685	-77
168.858	-83	169.032	-78	169.206	-81
169.58	-79	169.553	-82	169.727	-82
169.901	-81	170.075	-82	170.248	-80
169.676	-81	169.782	-80	169.888	-81
169.994	-80	170.1	-83	170.206	-84
170.312	-82	170.418	-81	170.524	-82
170.63	-83	170.835	-82	170.95	-80
171.065	-85	171.18	-84	171.294	-79
171.409	-79	171.524	-79	171.639	-80
171.754	-80	171.869	-80	171.679	-81

171.766	-82	171.853	-82	171.941	-82
172.028	-80	172.115	-83	172.202	-84
172.29	-81	172.377	-81	172.464	-81
173.649	-82	173.836	-80	174.023	-82
174.211	-80	174.398	-85	174.585	-83
174.772	-81	174.959	-82	175.146	-85
175.333	-86	174.28	-86	174.354	-87
174.429	-85	174.503	-84	174.577	-83
174.651	-82	174.726	-83	174.8	-82
174.874	-82	174.949	-81	175.55	-82
175.672	-81	175.794	-83	175.916	-84
176.038	-84	176.16	-81	176.283	-79
176.405	-84	176.527	-84	176.649	-85
177.194	-83	177.355	-83	177.516	-81
177.676	-83	177.837	-85	177.998	-85
178.158	-81	178.319	-80	178.48	-80
178.64	-81	178.126	-84	178.226	-82
178.325	-81	178.424	-81	178.524	-80
178.623	-83	178.722	-79	178.822	-80
178.921	-82	179.02	-80	179.956	-81
180.132	-82	180.307	-82	180.483	-85
180.658	-88	180.834	-88	181.009	-89
181.184	-86	181.36	-87	181.535	-87
181.02	-87	181.133	-67	181.245	-66
181.358	-86	181.471	-88	181.583	-87
181.696	-85	181.808	-83	181.921	-85
182.034	-84	181.72	-82	181.794	-81
181.668	-81	181.942	-81	182.016	-82
182.09	-82	182.164	-84	182.238	-80
182.312	-83	182.386	-81	183.709	-84
183.897	-83	184.084	-82	184.272	-81
184.459	-84	184.647	-81	184.834	-84
185.022	-80	185.21	-81	185.397	-78
184.597	-80	184.694	-77	184.792	-82
184.89	-78	184.987	-81	185.085	-78

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

185.183	-79	185.281	-82	185.378	-80
185.476	-77	185.582	-80	185.681	-80
185.773	-82	185.878	-79	185.976	-80
186.075	-84	186.173	-78	186.271	-82
186.37	-80	186.468	-78	187.268	-78
187.43	-78	187.593	-80	187.755	-80
187.917	-80	188.079	-81	188.242	-80
188.484	-81	188.566	-82	188.728	-83
188.368	-81	188.483	-81	188.598	-83
188.713	-80	188.827	-81	188.942	-80
189.057	-79	189.172	-79	189.286	-80
189.401	-80	189.386	-80	189.489	-78
189.592	-80	189.695	-79	189.798	-81
189.901	-79	190.004	-81	190.107	-81
190.21	-82	190.313	-83	191.102	-79
191.267	-83	191.432	-82	191.598	-83
191.763	-81	191.928	-82	192.094	-85
192.259	-86	192.424	-86	192.589	-84
192.039	-84	192.139	-88	192.239	-87
192.34	-86	192.44	-85	192.54	-81
192.64	-87	192.741	-86	192.841	-84
192.941	-84	193.295	-90	193.527	-87
193.66	-88	193.792	-88	193.925	-85
194.057	-86	194.189	-85	194.322	-87
194.454	-85	194.587	-86	194.232	-85
194.32	-82	194.408	-83	194.496	-84
194.584	-83	194.672	-82	194.76	-83
194.848	-85	194.936	-81	195.024	-82
195.43	-84	195.547	-80	195.664	-80
195.781	-80	195.898	-79	196.015	-79
196.132	-77	196.249	-80	196.366	-80
196.483	-80	197.074	-78	197.234	-80
197.394	-80	197.555	-81	197.715	-80
197.875	-81	198.035	-81	198.195	-78
198.355	-77	198.515	-84	198.902	-81

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

199.002 -80
199.624 -79
200.166 -84
199.34 -84
199.509 -80
199.677 -83
199.846 -85
200.785 -86
201.053 -85
201.351 -83
202.688 -80
203.255 -80
203.843 -78
205.629 -79
203.991 -80
204.553 -81
204.715 -80
205.172 -81
205.555 -72
205.938 -81
206.155 -82
206.472 -82
206.809 -82
207.252 -80
207.618 -78
207.983 -79
208.349 -80
208.857 -79
209.255 -78
209.654 -79
209.997 -77
210.381 -76
210.766 -76
211.539 -76
212.029 -77

199.263 -85
199.895 -79
200.347 -80
199.296 -81
199.565 -87
199.734 -86
200.486 -82
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226	03	-80	226	195	-79	226	336	-82
226	525	-77	226	691	-79	226	856	-81
227	021	-80	227	186	-78	227	351	-78
227	915	-80	227	134	-78	227	254	-78
227	773	-79	227	493	-77	227	613	-78
227	732	-81	227	852	-80	227	971	-79
228	091	-80	228	216	-78	228	376	-79
228	456	-77	228	576	-78	228	696	-78
229	816	-79	228	936	-78	229	056	-78
229	176	-79	229	296	-79	229	505	-79
229	655	-80	229	761	-79	229	889	-79
229	917	-77	229	146	-77	229	274	-79
230	402	-79	230	53	-80	230	658	-79
230	822	-79	230	735	-79	230	849	-80
230	962	-77	231	075	-79	231	188	-78
231	302	-79	231	415	-78	231	528	-77
231	641	-81	232	37	-80	232	539	-79
232	708	-80	232	977	-79	232	047	-79
232	216	-78	232	395	-78	232	554	-79
232	723	-78	232	892	-79	232	345	-77
232	449	-77	232	553	-77	232	657	-77
232	761	-78	232	865	-77	232	969	-76
234	073	-76	234	177	-77	234	261	-76
234	571	-77	234	692	-76	234	813	-76
234	934	-77	235	055	-77	235	176	-77
235	297	-78	235	418	-76	235	539	-76
235	66	-77	235	698	-76	235	811	-76
235	924	-78	235	030	-77	235	151	-76
236	265	-75	235	378	-75	235	492	-76
236	605	-76	235	718	-77	237	211	-76
237	359	-76	237	506	-78	237	654	-79
237	802	-79	237	95	-79	238	099	-80
238	246	-81	238	354	-80	238	541	-80
238	603	-79	238	743	-78	238	883	-79
239	022	-81	239	162	-82	239	302	-80

239.442	-80	239.582	-80	239.722	-81
239.862	-82	239.963	-81	240.1	-84
240.236	-83	240.373	-84	240.509	-83
240.646	-81	240.782	-82	240.918	-81
241.055	-82	241.191	-81	241.594	-82
241.755	-80	241.915	-83	242.076	-81
242.237	-81	242.397	-82	242.558	-80
242.718	-81	242.879	-80	243.04	-81
242.656	-82	242.767	-79	242.878	-80
242.989	-79	243.101	-81	243.212	-81
243.323	-78	243.434	-78	243.545	-80
243.657	-81	243.777	-79	243.889	-79
244.001	-82	244.113	-81	244.225	-80
244.337	-80	244.449	-81	244.562	-81
244.674	-80	244.786	-81	245.421	-80
245.58	-81	245.74	-81	245.9	-81
246.059	-80	246.219	-80	246.378	-83
246.538	-81	246.698	-81	246.857	-81
246.704	-83	246.835	-80	246.966	-81
247.097	-83	247.228	-80	247.36	-81
247.491	-81	247.622	-81	247.753	-81
247.884	-83	247.75	-83	247.657	-83
247.964	-84	248.071	-86	248.178	-81
248.285	-86	248.392	-86	248.499	-86
248.606	-85	248.713	-84	249.513	-84
249.683	-85	249.853	-86	250.023	-84
250.193	-85	250.363	-84	250.533	-87
250.703	-86	250.873	-85	251.043	-85
250.632	-82	250.749	-85	250.666	-86
250.983	-84	251.101	-86	251.218	-86
251.335	-83	251.452	-84	251.569	-82
251.686	-81	252.085	-81	252.227	-82
252.37	-83	252.513	-85	252.656	-85
252.796	-82	252.941	-86	253.084	-87
253.226	-86	253.369	-88	253.222	-84

DATA RECEIVED AND PROCESSED
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253.571	03	253.455	07	253.571	05
253.92	04	253.804	04	253.92	04
254.27	05	254.153	03	254.27	00
255.026	02	254.879	01	255.026	04
255.47	03	255.222	03	255.47	06
255.913	06	255.795	08	255.913	03
256.451	05	256.295	05	256.451	07
256.918	09	256.762	09	256.918	05
257.385	06	257.229	05	257.385	07
257.459	05	257.936	09	257.459	07
257.819	07	257.699	05	257.819	05
258.179	07	258.059	07	258.179	03
258.539	08	258.419	00	258.539	03
258.921	05	258.799	06	258.921	04
259.286	08	259.184	08	259.286	07
259.651	07	259.529	05	259.651	04
260.568	05	260.4	08	260.568	05
261.071	05	260.903	06	261.071	05
261.574	02	261.406	03	261.574	07
261.786	06	261.909	06	261.786	03
262.108	05	261.974	06	262.108	03
262.51	07	262.376	03	262.51	04
262.912	03	262.778	05	262.912	03
263.141	06	263.02	03	263.141	05
263.503	05	263.382	03	263.503	01
263.865	04	263.744	04	263.865	05
264.393	09	264.298	08	264.393	09
264.796	03	264.662	04	264.796	06
265.2	07	265.065	08	265.2	04
265.737	03	265.469	05	265.737	06
266.178	06	266.031	06	266.178	04
266.618	06	266.471	06	266.618	08
267.058	07	266.911	04	267.058	04
267.057	03	266.945	02	267.057	02
267.396	03	267.283	04	267.396	01

267.509	-83	267.621	-82	267.734	-80
267.847	-83	268.31	-81	268.455	-83
268.599	-82	268.744	-84	268.888	-84
269.033	-83	269.178	-83	269.322	-85
269.467	-83	269.612	-82	269.72	-84
269.861	-83	270.003	-83	270.144	-86
270.286	-83	270.427	-84	270.568	-85
270.71	-84	270.851	-85	270.992	-83
271.153	-86	271.302	-85	271.445	-88
271.589	-88	271.732	-85	271.876	-84
272.02	-83	272.163	-83	272.307	-81
272.45	-80	272.593	-82	272.518	-81
272.643	-83	272.769	-82	272.894	-81
273.013	-83	273.145	-84	273.27	-85
273.555	-83	273.52	-89	273.861	-86
274.006	-83	274.151	-83	274.296	-84
274.441	-84	274.586	-85	274.731	-83
274.875	-83	275.02	-84	275.165	-84
275.253	-85	275.391	-85	275.531	-84
275.67	-85	275.81	-86	275.949	-87
275.883	-86	276.229	-87	276.368	-85
275.503	-86	276.629	-86	276.657	-88
276.786	-85	276.915	-86	277.044	-85
277.122	-80	277.301	-88	277.43	-83
277.553	-89	277.807	-93	278.185	-90
278.347	-90	278.51	-90	278.672	-89
278.834	-87	278.996	-87	279.159	-88
279.321	-83	279.483	-85	279.646	-86
279.484	-95	279.617	-85	279.75	-87
279.882	-88	280.015	-86	280.149	-85
280.281	-94	280.414	-85	280.547	-86
280.673	-85	280.868	-83	281.006	-84
281.144	-86	281.282	-85	281.42	-85
281.558	-84	281.696	-86	281.834	-91
281.971	-95	282.109	-94	282.219	-86

292.354	002.49	105	282.625	105
292.76	002.096	106	283.031	107
293.166	003.302	109	283.437	109
293.761	003.914	109	284.066	105
294.919	004.371	105	284.524	106
294.676	004.039	105	284.981	102
295.134	005.091	107	285.226	107
295.361	005.435	109	285.63	101
295.755	005.9	105	286.034	106
296.169	006.704	101	286.618	109
296.769	006.92	109	287.071	102
297.222	007.373	105	287.524	101
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299.523	009.597	104	289.667	104
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299.224	009.363	102	290.502	103
299.642	009.781	103	291.021	105
291.169	001.317	104	291.466	101
291.614	001.763	104	291.911	101
292.06	002.008	103	292.356	104
292.551	002.703	104	292.856	103
293.008	003.161	103	293.314	102
293.466	003.619	103	293.771	104
293.924	003.959	103	294.078	102
294.218	004.358	104	294.496	102
294.638	004.778	103	294.916	103
295.058	005.198	101	295.385	103
295.42	005.555	102	295.691	103
295.826	005.961	103	296.096	103
296.231	006.367	102	296.502	101
296.89	007.048	104	297.206	104
297.364	007.532	103	297.681	104

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

307.959	-84	297.927	-83	298.155	-85
308.513	-84	298.173	-85	298.304	-82
309.425	-85	298.566	-82	298.697	-83
309.820	-83	298.959	-81	299.091	-82
309.820	-84	299.353	-84	299.949	-82
309.120	-81	300.295	-80	300.469	-85
309.642	-84	300.815	-84	300.989	-85
301.160	-84	301.335	-85	301.509	-84
301.187	-85	301.315	-84	301.443	-85
301.571	-85	301.7	-85	301.828	-84
301.958	-87	302.089	-86	302.213	-86
302.341	-87	302.871	-85	303.035	-85
303.2	-83	303.365	-85	303.53	-83
303.604	-84	303.859	-85	304.024	-85
304.189	-85	304.354	-84	304.071	-83
304.196	-83	304.32	-84	304.444	-81
304.568	-81	304.692	-80	304.816	-80
304.94	-81	305.065	-81	305.189	-81
305.533	-78	305.677	-82	305.821	-80
305.966	-80	306.11	-83	306.254	-80
306.398	-82	306.542	-81	306.686	-81
306.831	-83	307.106	-81	307.262	-83
307.418	-83	307.575	-82	307.731	-83
307.897	-81	308.043	-80	308.199	-80
308.355	-80	308.511	-81	308.526	-81
308.669	-82	308.812	-81	308.956	-80
309.099	-81	309.242	-81	309.385	-80
309.529	-79	309.672	-79	309.815	-81
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310.141	-80	310.266	-81	310.392	-80
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310.894	-85	311.653	-85	311.836	-85
312.019	-87	312.202	-90	312.385	-87
312.568	-87	312.751	-89	312.934	-89
313.117	-88	313.301	-78	312.661	-78

312.759	-78	312.977	-78	312.986	-78
313.034	-80	313.202	-77	313.311	-78
313.419	-77	313.527	-78	313.636	-80
314.444	-78	314.616	-79	314.728	-79
314.96	-79	315.132	-78	315.204	-79
315.476	-77	315.648	-77	315.82	-77
315.932	-76	315.909	-76	316.058	-76
316.207	-76	316.359	-75	316.504	-75
316.653	-74	316.802	-74	316.951	-74
317.1	-75	317.249	-76	316.74	-74
316.835	-77	316.918	-76	317.007	-74
317.056	-79	317.185	-77	317.274	-77
317.363	-78	317.452	-77	317.541	-78
318.000	-77	319.005	-80	319.201	-77
319.397	-77	319.593	-80	319.789	-79
319.985	-77	320.181	-79	320.378	-80
320.574	-79	319.852	-80	319.964	-80
320.077	-78	320.19	-79	320.303	-80
320.413	-78	320.528	-81	320.641	-80
320.753	-78	320.866	-80	321.411	-79
321.563	-79	321.714	-77	321.866	-77
322.018	-78	322.17	-76	322.322	-78
322.474	-78	322.626	-76	322.778	-78
322.494	-75	322.607	-74	322.719	-75
322.831	-74	322.944	-74	323.056	-74
323.168	-75	323.281	-77	323.393	-76
323.505	-76	324.471	-75	324.661	-66
324.851	-75	325.041	-76	325.231	-77
325.431	-77	325.61	-79	325.8	-79
325.99	-78	326.18	-79	325.872	-77
326.017	-89	326.161	-78	326.306	-79
326.451	-76	326.595	-77	326.74	-75
326.884	-77	327.029	-78	327.174	-76
327.478	-77	327.637	-77	327.796	-77
327.956	-77	328.115	-75	328.274	-88

328.433	-91	328.592	-88	328.752	-87
328.911	-81	328.924	-77	329.96	-77
329.097	-76	329.234	-76	329.371	-77
329.607	-76	329.644	-77	329.781	-77
329.918	-74	330.054	-85	330.287	-85
330.432	-89	330.578	-88	330.723	-88
330.869	-89	331.014	-80	331.159	-88
331.305	-89	331.45	-78	331.596	-77
331.837	-80	331.984	-77	332.137	-79
332.291	-79	332.444	-76	332.598	-78
332.752	-81	332.905	-87	333.059	-90
333.012	-80	332.772	-84	332.971	-81
332.971	-82	333.07	-87	333.17	-89
333.269	-84	333.369	-82	333.468	-82
333.568	-80	333.667	-80	334.454	-80
334.617	-79	334.779	-79	334.941	-88
335.183	-89	335.265	-84	335.427	-88
335.589	-90	335.751	-89	335.913	-79
336.346	-77	336.522	-75	336.719	-76
336.965	-76	337.092	-75	337.279	-77
337.455	-76	337.652	-85	337.839	-74
338.025	-79	337.381	-79	337.492	-80
337.604	-79	337.715	-79	337.826	-78
337.937	-79	338.048	-78	338.159	-78
338.27	-77	338.382	-79	339.509	-80
339.713	-79	339.916	-76	340.12	-79
340.223	-81	340.527	-80	340.73	-81
340.934	-80	341.138	-80	341.341	-79
341.205	-80	341.378	-79	341.55	-80
341.723	-82	341.896	-83	342.068	-81
342.241	-89	342.414	-87	342.586	-82
342.759	-81	342.272	-81	342.385	-80
342.498	-83	342.611	-84	342.724	-83
342.836	-82	342.949	-83	343.062	-81
343.175	-83	343.287	-79	343.307	-78

343.411	-79	343.515	-80	343.619	-83
343.724	-83	343.828	-84	343.932	-85
344.036	-85	344.141	-86	344.245	-99
345.331	-97	345.525	-90	345.718	-87
345.912	-81	346.105	-86	346.299	-86
346.492	-88	346.686	-86	346.88	-86
347.073	-87	346.894	-87	347.053	-86
347.213	-89	347.373	-91	347.532	-93
347.692	-82	347.852	-87	348.011	-88
348.171	-95	348.33	-85	347.78	-86
347.876	-83	347.971	-84	348.066	-85
348.161	-84	348.256	-82	348.351	-82
348.446	-82	348.542	-87	348.637	-83
349.497	-82	349.661	-93	349.826	-86
349.991	-81	350.155	-84	350.32	-81
350.485	-84	350.649	-82	350.814	-81
350.979	-81	351.042	-84	351.198	-82
351.353	-80	351.509	-85	351.664	-81
351.82	-85	351.975	-80	352.131	-80
352.286	-84	352.442	-83	352.041	-87
352.146	-83	352.251	-85	352.356	-85
352.461	-86	352.566	-88	352.671	-85
352.776	-87	352.881	-85	352.986	-87
353.658	-88	353.815	-84	353.972	-88
354.128	-85	354.285	-89	354.441	-83
354.598	-85	354.754	-87	354.911	-84
355.068	-84	354.939	-86	355.069	-85
355.2	-87	355.33	-84	355.461	-85
355.592	-86	355.722	-89	355.853	-84
355.984	-86	356.114	-84	356.535	-84
356.692	-86	356.849	-83	357.006	-81
357.163	-82	357.32	-81	357.477	-82
357.634	-81	357.791	-83	357.948	-82
358.359	-84	358.539	-82	358.719	-82
358.899	-85	359.079	-83	359.259	-83

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

359.44	-87	359.62	-80	359.8	-83
359.96	-83	359.758	-84	359.902	-82
360.045	-81	360.189	-79	360.332	-81
360.476	-81	360.62	-80	360.763	-78
360.907	-78	361.05	-80	1.31472	-78
1.45829	-81	1.60186	-81	1.74543	-79
1.88901	-79	2.03258	-80	2.17615	-78
2.31972	-80	2.46329	-80	2.60686	-76
2.74525	-76	2.88846	-77	3.03157	-76
3.17467	-75	3.31778	-76	3.46089	-75
3.604	-75	3.74711	-79	3.89022	-77
4.03333	-76	4.03824	-78	4.16884	-78
4.29939	-77	4.42994	-79	4.56049	-78
4.59104	-79	4.82158	-78	4.95213	-76
5.08268	-79	5.21323	-78	5.35332	-79
5.48473	-79	5.61615	-78	5.74756	-78
5.87898	-77	6.0104	-76	6.14181	-78
6.27323	-78	6.40465	-76	6.53696	-77
6.56101	-77	7.11912	-77	7.27222	-77
7.43532	-78	7.59342	-78	7.75152	-79
7.90962	-79	8.06772	-77	8.23582	-76
8.38392	-77	9.0981	-77	9.30675	-76
9.51541	-80	9.72406	-80	9.93272	-81
10.1414	-82	10.35	-81	10.5587	-82
10.7673	-79	10.976	-79	9.87919	-79
9.96917	-80	10.0591	-79	10.1491	-78
10.2391	-81	10.3291	-81	10.4191	-81
10.509	-83	10.599	-81	10.689	-80
11.4859	-82	11.6402	-80	11.7944	-81
11.9487	-82	12.1029	-82	12.2572	-83
12.4114	-82	12.5657	-81	12.7193	-78
12.8742	-80	13.1429	-80	13.3076	-79
13.4722	-80	13.6369	-79	13.8015	-81
13.9662	-80	14.1308	-79	14.2955	-79
14.4601	-79	14.6248	-79	14.5252	-80

14.6658	-80	14.8064	-81	14.9471	-80
15.0877	-80	15.2283	-83	15.369	-83
15.5096	-87	15.6502	-84	15.7909	-84
16.163	-84	16.3247	-84	16.4864	-86
16.648	-87	16.8097	-87	16.9714	-86
17.1331	-88	17.2947	-89	17.4564	-85
17.6181	-82	17.7385	-83	17.8964	-84
18.0543	-84	18.2123	-85	18.3702	-82
18.5281	-82	18.686	-81	18.844	-80
19.0019	-78	19.1598	-80	19.3489	-80
19.5096	-79	19.6704	-80	19.8311	-80
19.9919	-80	20.1526	-79	20.3134	-81
20.4741	-79	20.6349	-81	20.7956	-79
20.6808	-79	20.8165	-80	20.9522	-77
21.0879	-80	21.2236	-80	21.3593	-79
21.495	-79	21.6307	-79	21.7664	-78
21.9021	-77	22.0347	-78	22.1701	-77
22.3056	-78	22.441	-77	22.5764	-78
22.7118	-77	22.8472	-77	22.9827	-77
23.1181	-77	23.2535	-79	23.6223	-77
23.7789	-78	23.9355	-76	24.0922	-78
24.2488	-79	24.4054	-78	24.5621	-79
24.7187	-80	24.8753	-80	25.032	-79
25.2421	-78	25.4036	-80	25.565	-79
25.7265	-81	25.888	-82	26.0495	-82
26.211	-80	26.3725	-81	26.534	-81
26.6955	-80	26.6006	-79	26.7388	-80
26.877	-80	27.0152	-80	27.1533	-81
27.2915	-80	27.4297	-80	27.5679	-80
27.7061	-78	27.8443	-77	27.344	-78
27.4242	-78	27.5043	-77	27.5845	-80
27.6646	-79	27.7447	-78	27.8249	-78
27.905	-79	27.9852	-79	28.0653	-79
29.4561	-79	29.6553	-78	29.8546	-79
30.0539	-79	30.2532	-77	30.4525	-78

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

30.6518	-79	30.8511	-78	31.0504	-79
31.2496	-78	30.7336	-78	30.8679	-78
31.0021	-79	31.1364	-79	31.2707	-78
31.4049	-78	31.5392	-79	31.6734	-80
31.8077	-80	31.942	-79	32.2023	-80
32.348	-80	32.4937	-79	32.6394	-78
32.7851	-78	32.9309	-77	33.0766	-77
33.2223	-77	33.368	-79	33.5137	-77
33.6081	-79	33.9673	-79	34.1266	-78
34.2858	-79	34.445	-79	34.6043	-81
34.7635	-79	34.9227	-79	35.082	-79
35.2412	-79	34.7419	-79	34.8413	-80
34.9407	-78	35.0401	-79	35.1394	-78
35.2388	-79	35.3382	-78	35.4376	-79
35.5369	-78	35.6363	-81	36.3626	-79
36.519	-81	36.8754	-79	36.8317	-80
36.9881	-79	37.1445	-79	37.3008	-79
37.4572	-82	37.6136	-80	37.7699	-80
37.399	-79	37.5074	-81	37.6158	-79
37.7243	-78	37.8327	-77	37.9411	-79
38.0495	-79	38.158	-80	38.2664	-80
38.3748	-81	38.6864	-81	38.8133	-81
38.9401	-79	39.067	-79	39.1939	-78
39.3288	-80	39.4477	-79	39.5746	-78
39.7015	-80	39.8284	-80	40.2681	-81
40.4234	-81	40.5787	-80	40.7341	-82
40.8894	-81	41.0447	-82	41.2	-80
41.3554	-81	41.5107	-79	41.666	-81
41.8402	-81	41.9973	-82	42.1543	-80
42.3114	-82	42.4684	-81	42.6254	-80
42.7825	-80	42.9395	-80	43.0966	-81
43.2536	-79	43.2842	-82	43.4297	-80
43.5753	-81	43.7208	-79	43.8664	-81
44.0119	-80	44.1574	-80	44.303	-81
44.4485	-81	44.5941	-83	44.7476	-83

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

44. 8339	-82	45. 0402	-80	45. 1864	-81
45. 3327	-80	45. 479	-80	45. 6253	-79
45. 7719	-79	45. 9178	-79	46. 0641	-79
46. 3106	-78	46. 466	-79	46. 6214	-79
46. 7788	-80	46. 9321	-79	47. 0875	-79
47. 2429	-79	47. 3983	-78	47. 5537	-79
47. 7091	-79	47. 2594	-81	47. 3499	-80
47. 4495	-82	47. 5491	-79	47. 6486	-78
47. 7482	-78	47. 8477	-80	47. 9473	-76
48. 0469	-77	48. 1464	-77	48. 2964	-77
48. 0551	-79	49. 2138	-80	49. 3725	-80
49. 5312	-80	49. 6899	-78	49. 8486	-81
50. 0073	-80	50. 166	-79	50. 3247	-81
50. 2001	-81	50. 3331	-81	50. 466	-82
50. 599	-80	50. 7319	-84	50. 8649	-79
50. 9970	-80	51. 1308	-81	51. 2637	-79
51. 3967	-80	51. 6371	-77	51. 998	-77
52. 1589	-78	52. 3198	-79	52. 4887	-78
52. 6415	-78	52. 8025	-81	52. 9634	-81
53. 1243	-80	53. 3892	-79	53. 0546	-80
53. 18	-84	53. 3053	-80	53. 4306	-80
53. 5559	-83	53. 6812	-83	53. 8065	-85
53. 9319	-82	54. 0572	-82	54. 1825	-82
54. 361	-84	54. 4911	-83	54. 6213	-84
54. 7514	-83	54. 8816	-83	55. 0117	-85
55. 1419	-86	55. 272	-83	55. 4022	-83
55. 5323	-86	55. 693	-88	55. 8259	-84
55. 9589	-88	56. 0918	-83	56. 2247	-87
56. 3576	-88	56. 4906	-91	56. 6235	-91
56. 7564	-85	56. 8893	-86	57. 0758	-88
57. 2135	-90	57. 3513	-89	57. 4891	-87
57. 6269	-89	57. 7647	-85	57. 9025	-85
58. 0403	-126	58. 1781	-86	58. 3159	-85
58. 4701	-87	58. 6094	-82	58. 7487	-86
58. 888	-82	59. 0273	-84	59. 1666	-85

59.3058	-86	59.4451	-84	59.5844	-83
59.7237	-85	59.9231	-86	60.0788	-87
60.2244	-84	60.3781	-83	60.5158	-84
60.6514	-126	60.8071	-92	60.9527	-86
61.0984	-82	61.2441	-83	61.014	-84
61.1255	-85	61.237	-82	61.3485	-81
61.46	-79	61.5715	-80	61.683	-80
61.7945	-81	61.906	-126	62.0175	-125
62.5245	-81	62.6719	-81	62.8194	-84
62.9668	-86	63.1143	-85	63.2618	-126
63.4082	-82	63.5567	32637	63.7041	-86
63.6516	-85	63.8019	-92	63.9314	-90
64.0509	-86	64.1905	-82	64.32	-84
64.4495	-82	64.5791	-81	64.7086	-81
64.6581	-78	64.9677	-80	64.9251	-79
65.0389	-80	65.1528	-82	65.2667	-82
65.3206	-81	65.4345	-82	65.6084	-80
65.7223	-83	65.8362	-85	65.95	-84
66.598	-80	66.7495	-81	66.911	-80
67.0726	-82	67.2341	-78	67.3956	-89
67.5571	-81	67.7187	-77	67.8802	-81
68.0417	-79	67.6875	-77	67.8022	-79
67.9168	-76	68.0315	-78	68.1461	-78
68.2607	-80	68.3754	-77	68.49	-77
68.5047	-78	68.7193	-76	68.7839	-78
68.694	-78	69.0041	-79	69.1142	-78
69.2243	-79	69.3344	-77	69.4445	-82
69.5546	-79	69.6647	-78	69.7748	-80
70.4386	-78	70.599	-80	70.7595	-77
70.9199	-77	71.0603	-81	71.2408	-79
71.4012	-78	71.5616	-81	71.7221	-79
71.6825	-79	71.7654	-79	71.9006	-78
72.0359	-78	72.1711	-76	72.3063	-76

85 9335 -82
86 9392 -83
87 9449 -85
88 9497 -82
89 9554 -86
90 9611 -84
91 9661 -83
92 9744 -81
93 9895 -80
94 9945 -82
95 9982 -85
96 9989 -84
97 9994 -81
98 9999 -80
99 9999 -81

86 1227 -83
86 5345 -85
86 9402 -86
87 3275 -85
87 7222 -84
88 1297 -83
88 5397 -83
88 9927 -83
89 4078 -84
89 8229 -84
90 0952 -84
90 362 -85
90 7189 -85
91 4218 -85
91 873 -81
92 3243 -82
92 7755 -82
92 8129 -80
93 1686 -80
93 5243 -81
93 9551 -80
94 3046 -84
94 6741 -82
94 973 -81
95 3909 -80
95 6826 -84
96 0347 -82
96 7113 -83
97 1382 -81
97 565 -80
97 8779 -84
98 2763 -81
98 6746 -80
98 9975 -85
99 3753 -81

86 264 -82
86 6697 -83
87 0754 -85
87 4611 -85
87 8618 -84
88 2625 -82
88 716 -83
89 1311 -83
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89 9613 -84
90 1241 -84
90 461 -85
90 8379 -84
91 5722 -82
92 8235 -89
92 4747 -89
92 5757 -82
92 9314 -81
93 2871 -82
93 6429 -81
94 0583 -81
94 4278 -85
94 7973 -84
95 0563 -81
95 4482 -83
95 8001 -83
96 4268 -81
96 8536 -85
97 2885 -83
97 7073 -81
98 0107 -83
98 4891 -84
98 8074 -83
99 1235 -81
99 5012 -82

86 1227 -83
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87 7222 -84
88 1297 -83
88 5397 -83
88 9927 -83
89 4078 -84
89 8229 -84
90 0952 -84
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90 7189 -85
91 4218 -85
91 873 -81
92 3243 -82
92 7755 -82
92 8129 -80
93 1686 -80
93 5243 -81
93 9551 -80
94 3046 -84
94 6741 -82
94 973 -81
95 3909 -80
95 6826 -84
96 0347 -82
96 7113 -83
97 1382 -81
97 565 -80
97 8779 -84
98 2763 -81
98 6746 -80
98 9975 -85
99 3753 -81

86 264 -82
86 6697 -83
87 0754 -85
87 4611 -85
87 8618 -84
88 2625 -82
88 716 -83
89 1311 -83
89 5462 -83
89 9613 -84
90 1241 -84
90 461 -85
90 8379 -84
91 5722 -82
92 8235 -89
92 4747 -89
92 5757 -82
92 9314 -81
93 2871 -82
93 6429 -81
94 0583 -81
94 4278 -85
94 7973 -84
95 0563 -81
95 4482 -83
95 8001 -83
96 4268 -81
96 8536 -85
97 2885 -83
97 7073 -81
98 0107 -83
98 4891 -84
98 8074 -83
99 1235 -81
99 5012 -82

99.6272	-80	99.7531	-81	99.879	-81
100.085	-80	100.131	-80	99.9568	-81
100.055	-79	100.154	-80	100.253	-79
100.351	-78	100.45	-78	100.549	-78
100.647	-82	100.746	-80	100.845	-79
101.556	-79	101.711	-81	101.865	-79
102.019	-81	102.174	-81	102.328	-77
102.483	-79	102.637	-78	102.791	-77
102.946	-80	102.667	-77	102.782	-79
102.897	-76	103.013	-76	103.128	-79
103.243	-76	103.358	-76	103.473	-76
103.588	-75	103.703	-75	104.11	-74
104.252	-75	104.394	-74	104.535	-75
104.677	-76	104.818	-76	104.96	-76
105.102	-77	105.243	-77	105.385	-78
105.298	-80	105.419	-77	105.54	-78
105.66	-78	105.781	-80	105.902	-77
106.023	-77	106.144	-80	106.265	-78
106.386	-78	106.379	-80	106.488	-80
106.597	-78	106.706	-76	106.815	-78
106.925	-78	107.034	-77	107.143	-77
107.252	-78	107.362	-79	107.894	-80
108.042	-80	108.19	-80	108.337	-79
108.485	-78	108.633	-79	108.78	-80
108.928	-79	109.076	-77	109.224	-77
109.124	-77	109.249	-75	109.375	-75
109.5	-74	109.625	-76	109.751	-75
109.876	-76	110.001	-75	110.126	-75
110.252	-77	110.326	-78	110.447	-81
110.568	-77	110.688	-80	110.809	-78
110.93	-80	111.05	-75	111.171	-76
111.292	-75	111.412	-76	111.695	-76
111.83	-78	111.966	-79	112.101	-79
112.237	-78	112.372	-76	112.507	-76
112.643	-76	112.778	-78	112.914	-76

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

112.915	-76	113.038	-77	113.161	-76
113.284	-78	113.408	-76	113.531	-77
113.654	-79	113.777	-77	113.9	-78
114.024	-78	114.384	-77	114.529	-77
114.674	-78	114.819	-78	114.964	-79
115.108	-77	115.253	-78	115.398	-77
115.543	-76	115.688	-77	115.677	-76
115.808	-76	115.938	-77	116.069	-78
116.2	-76	116.33	-77	116.461	-76
116.591	-78	116.722	-77	116.853	-79
116.862	-79	116.981	-78	117.101	-77
117.22	-79	117.34	-78	117.459	-77
117.579	-125	117.698	-78	117.818	-75
117.938	-80	118.492	-78	118.651	-78
118.811	-80	118.97	-78	119.129	-91
119.288	-78	119.447	-79	119.606	-125
119.765	-76	119.925	-76	119.314	-125
119.493	-125	119.492	-125	119.581	-77
119.67	-75	119.76	-75	119.849	-125
119.938	-125	120.027	-77	120.116	-77
120.917	-125	121.071	-113	121.225	-82
121.378	-78	121.532	-79	121.686	-78
121.84	-77	121.994	-77	122.147	-77
122.301	-77	122.366	-73	122.511	-73
122.657	-74	122.803	-76	122.948	-76
123.094	-76	123.24	-77	123.385	-78
123.531	-76	123.677	-79	123.183	-77
123.27	-76	123.358	-78	123.445	-79
123.533	-76	123.62	-78	123.708	-77
123.795	-76	123.883	-88	123.97	-77
124.718	-78	124.865	-78	125.013	-78
125.161	-78	125.308	-78	125.456	-77

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

125.603	-77	125.751	-78	125.898	-78
126.046	-88	125.742	-79	125.849	-81
125.955	-80	126.062	-92	126.168	-88
126.275	-90	126.381	-82	126.488	-83
126.594	-81	126.701	-83	127.406	-95
127.567	-90	127.728	-88	127.889	-91
128.05	-91	128.211	-90	128.372	-90
128.533	-79	128.694	-79	128.855	-79
128.789	-78	128.842	-78	128.975	-79
129.108	-78	129.241	-80	129.374	-81
129.587	-81	129.64	-79	129.773	-79
129.906	-77	129.763	-89	129.871	-90
129.979	-88	130.087	-92	130.195	-78
130.303	-79	130.411	-91	130.519	-89
130.627	-89	130.735	-89	131.277	-87
131.425	-89	131.572	-80	131.72	-80
131.867	-80	132.014	-80	132.162	-85
132.309	-83	132.457	-89	132.604	-85
132.198	-89	132.296	-88	132.393	-79
132.49	-82	132.587	-79	132.684	-76
132.781	-80	132.878	-81	132.975	-78
133.073	-77	133.731	-78	133.879	-77
134.027	-78	134.176	-79	134.324	-79
134.472	-79	134.62	-80	134.768	-78
134.916	-78	135.064	-80	134.762	-80
134.869	-80	134.976	-82	135.083	-78
135.19	-83	135.298	-81	135.405	-78
135.512	-78	135.619	-79	135.726	-82
136.308	-82	136.458	-82	136.608	-78
136.758	-80	136.909	-79	137.059	-77
137.209	-78	137.36	-81	137.51	-78
137.66	-81	137.333	-79	137.44	-77
137.546	-82	137.653	-81	137.76	-81
137.867	-81	137.974	-80	138.081	-80
138.188	-79	138.294	-82	138.679	-78

DATA RECORDED AND PROCESSED
BY THE FAA TECHNICAL CENTER

138.811	-79	138.943	-86	139.075	-87
139.207	-87	139.339	-77	139.471	-80
139.603	-76	139.735	-83	139.867	-79
140.194	-80	140.343	-95	140.493	-86
140.643	-81	140.792	-79	140.942	-89
141.092	-78	141.242	-83	141.391	-95
141.541	-79	140.978	-82	141.063	-89
141.148	-87	141.233	-90	141.318	-79
141.403	-81	141.488	-78	141.573	-82
141.658	-79	141.743	-77	142.349	-86
142.481	-74	142.614	-76	142.746	-78
142.878	-75	143.011	-84	143.143	-76
143.275	-74	143.407	-75	143.54	-76
143.673	-76	143.806	-77	143.938	-77
144.071	-85	144.203	-87	144.336	-76
144.468	-76	144.6	-76	144.733	-78
144.865	-76	145.132	-77	145.276	-78
145.421	-76	145.565	-77	145.71	-76
145.855	-76	145.999	-76	146.144	-78
146.289	-76	146.433	-76	146.449	-76
146.581	-73	146.714	-78	146.847	-75
146.98	-80	147.113	-80	147.246	-79
147.379	-78	147.512	-77	147.644	-79
147.668	-82	147.791	-77	147.914	-78
148.037	-78	148.16	-76	148.283	-77
148.406	-78	148.528	-75	148.651	-76
148.774	-79	148.939	-75	149.066	-77
149.193	-81	149.32	-81	149.446	-81
149.573	-79	149.7	-83	149.827	-81
149.953	-81	150.08	-81	150.279	-76
150.412	-79	150.546	-79	150.679	-78
150.812	-78	150.946	-79	151.079	-79
151.212	-79	151.346	-84	151.479	-82
151.441	-85	151.558	-78	151.676	-80
151.794	-83	151.911	-83	152.029	-80

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152.147 -83
152.5 -85
152.799 -80
153.14 -85
153.481 -84
153.303 -77
153.515 -80
153.726 -84
155.064 -81
155.583 -81
156.102 -78
156.62 -77
156.66 -80
157.069 -78
157.477 -79

152.265 -87
152.572 -83
152.913 -82
153.254 -88
153.595 -84
153.374 -78
153.585 -81
153.796 -81
155.227 -84
155.756 -79
156.274 -78
156.388 -80
156.796 -80
157.205 -77
157.613 -77

152.382 -83
152.686 -84
153.027 -85
153.367 -87
153.233 -79
153.444 -81
153.655 -79
153.867 -85
155.41 -80
155.929 -79
156.447 -80
156.524 -79
156.933 -77
157.341 -77

READY
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RUN NO. 2	DCA FLT CHECK 7-23-81		FREQUENCY= 134.025		
NMI	AZIMUTH	DBM	NMI	AZIMUTH	DBM
152.36	71.2424	-58	166.211	71.2424	-58
189.962	71.2424	-58	193.913	71.2424	-58
207.763	71.2424	-58	221.614	71.2424	-58
235.465	71.2424	-58	249.316	71.2424	-58
263.167	71.2424	-58	277.018	71.2424	-58
152.36	71.2424	-58	166.211	71.2424	-58
189.962	71.2424	-58	193.913	71.2424	-58
207.763	71.2424	-58	221.614	71.2424	-58
235.465	71.2424	-58	249.316	71.2424	-58
263.167	71.2424	-58	277.018	71.2424	-58
136.948	70.9443	-58	136.806	70.9443	-58
136.664	70.9443	-58	136.522	70.9443	-58
136.38	70.9443	-58	136.238	70.9443	-58
136.096	70.9443	-58	135.954	70.9443	-58
135.812	70.9443	-58	135.67	70.9443	-58

READY
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SIG GEN CALIBRATION

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DCA FLT CHECK, 7-23-81			FREQUENCY= 135.725		
NUN NO. 5	AZIMUTH	DBM	NMI	AZIMUTH	DBM
95.8527	71.8232	-69	104.567	71.8232	-69
113.28	71.8232	-69	121.994	71.8232	-69
139.708	71.8232	-69	139.422	71.8232	-69
148.136	71.8232	-69	156.85	71.8232	-69
165.564	71.8232	-69	174.278	71.8232	-69
95.8527	71.8232	-69	104.567	71.8232	-69
113.28	71.8232	-69	121.994	71.8232	-69
139.708	71.8232	-69	139.422	71.8232	-69
148.136	71.8232	-69	156.85	71.8232	-69
165.564	71.8232	-69	174.278	71.8232	-69

READY
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SIG GEN CAL

DATA RECORDED AND PROCESSED
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