

APÉNDICE A
HOJA DE CUBIERTA
GRABADORAS DE VUELO

Página 1 -	Grabadora de Voz de Cabina (CVR)
Páginas 2 - 5	Grabadora Digital de Datos de Vuelo (DFDR)
Páginas 6 - 14	Programa de Desecho de Datos del DFDR

MC 980941

Sundstrand Data Control, Inc.
unit of Sundstrand Corporation



15001 N E 36TH STREET, P.O. BOX 97001 • REDMOND, WASHINGTON 98073-9701 • PHONE 206/885-3711 • TWX 910/449-2860 • TLX RCA 286144

June 26, 1992

Mr. Vince Giuliana
c/o National Transportation Safety Board
Engineering Services Division (RE-20)
800 Independence Avenue, S.W.
Washington, DC 20594

cc: Captain Jorge Rodrigues, DAC
Captain Jorge Granados, COPA
Mr. Don Warner, SDC Program Manager

Dear Sir,

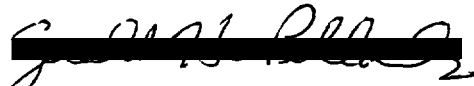
Find enclosed the failure analysis report on Sundstrand Cockpit Voice Recorder, part number 980-6005-050, serial number 5395.

Our conclusions are that the Capstan Drive Belt stopped driving the recording media on May 28, 1992 and that this failure would have been detected if the operating procedures included a preflight test of the CVR.

It is our recommendation that the CVR selftest be added as a preflight operation.

If I can be of additional service, please feel free to contact me at [REDACTED]

Sincerely yours,



Gerald H. Pelland
CVR Project Engineer
[REDACTED]

Attachments: 1

NATIONAL TRANSPORTATION SAFETY BOARD
Office of Research and Engineering
Washington, D.C.

November 20, 1992

FACTUAL REPORT OF INVESTIGATION - DIGITAL FLIGHT DATA RECORDER
DCA-92-RA-038

A. ACCIDENT

Location: La Palma, Republic of Panama
Date : June 6, 1992
Time : Approximately 2056 Local (Standard Time)
Aircraft: Compania Panamena de Aviacion (COPA) Flight 201,
a Boeing B737-200, HP 1205

B. GROUP

Chairman: Tom Jacky, National Transportation Safety Board
Member : Robert McIntosh, NTSB
Member : Captain Jorge Rodriquez, Direccion de Aeronautica
Civil (DAC) of Panama
Member : Ernesto Espinoza, DAC of Panama
Member : Mike Carreker, Boeing Aircraft Company
Member : Keith Isherwood, Brittania Airways, Ltd.
Member : Captain Jorge Granados, COPA Airlines
Member : Captain Jorge Campbell, COPA Airlines

C. SUMMARY

The digital flight data recorder (DFDR), a Sundstrand Data Control (SDC) model UFDR 980-4100-EMXN (s/n 479), was removed from the accident site and hand-carried to the National Transportation Safety Board's (NTSB) Flight Recorder Laboratory in Washington, D.C. by Airline and Panamanian Government officials, where readout and evaluation was conducted by Engineering Services' personnel.

Although the DFDR's outer dust cover, internal electronics received substantial impact damage, the tape medium was undamaged, and removed from the recorder's tape platform without incident. Readout was accomplished without significant data loss throughout transcription of the accident flight. In the areas of synch (and subsequent data) loss occurrences in the accident flight transcription, the Engineering Services' BITDUMP program was used to recover the lost data, so that a complete composite data set of the entire flight resulted.

The duration of the accident flight was approximately 0020:22, from the beginning of takeoff roll through data transition (from newest to oldest data). The data for the first 18 minutes of flight were consistent with normal flight.

However, DFDR playback data indicate the following flight trends in the two minutes prior to the end of the recording:

1. Recorded magnetic heading data indicate that Flight 201 was traveling at a magnetic heading of approximately 148 degrees for several minutes prior to the final two minutes of data. Flight 201 then made a right turn to a maximum of approximately 161 degrees, then turned left to an approximate heading of 132 degrees. Then, in the final thirty seconds of recorded data, Flight 201 began a continuous left turn from 132 degrees, through zero, to a final recorded magnetic heading value of 356.45 degrees.

2. Entering the final minutes of data, Flight 201's pressure altitude was recorded at approximately 25000 feet. At approximately forty-five seconds prior to the end of recorded data, Flight 201 data indicate a descent to approximately 24440 feet which then remained constant for seven seconds. Flight 201's altitude then decreased rapidly, over the final twenty-five seconds, from 24440 feet to its final recorded value of 9965 feet.

3. The recorded vertical acceleration data indicate, in the final minute of recorded data, increased values to a momentary maximum of 1.56 "G"s¹ approximately 37 seconds prior to the end of data, then values about 1 "G". In the final twenty seconds of data, the vertical acceleration data were consistently above 1.0 "G"s, including a recorded maximum of 4.35 "G"s recorded 17 seconds prior to data transition, until the final second of data, when then values become negative, including a minimum value of -3.55 "G"s recorded 0.094 seconds prior to the end of valid data.

4. Recorded pitch data indicate a positive pitch-up attitude of approximately 1-2 degrees entering the final two minutes of data. Recorded pitch attitude values then decreased to a nose-down attitude minimum of -2.1 degrees 40 seconds prior to data transition. During the next approximately eight seconds the pitch attitude increased to a maximum of 3.13 degrees 33 seconds prior to data transition. The pitch values then decreased steadily to a nose-down attitude, with a minimum value of -79.38 degrees seven seconds prior to data transition. Pitch attitude values then increased over the remainder of the data to the final recorded value of -66.75 degrees.

5. The final two minutes of recorded roll data reveal a right-wing down attitude approximately ninety seconds prior to data transition. A maximum 24.4 degree value was recorded 79

¹ Vertical Acceleration is recorded in "G"s, the ratio of a body's acceleration to Earth's acceleration due to gravity, 32.2 feet/second/second.

seconds prior to data transition. The recorded roll attitude then assumed a right-wing down attitude of approximately 4.5 degrees, held for approximately 15 seconds. Then, 54 seconds prior to data transition, the roll attitude changed rapidly (within one second) from a right-wing down attitude of 4.0 degrees to a left-wing down attitude of approximately 36 degrees. This attitude is held for approximately thirty seconds, when the data changed, within two seconds, from a left-wing down value of 36 degrees, to a right wing down attitude of approximately 115 to 120 degrees. This value is held some twelve seconds, when the values begin decreased over the final 11 seconds of data, to a final value of 14.88 degrees, right-wing down.

4. VHF Keying was not recorded "open" during the last two minutes of recorded data. The last "open" keying occurred 0002:43 prior to data transition.

5. The transition from newest to oldest data occurred at DFDR reference time (or data sub-frame) of 1487 seconds.

COPA Flight 201 UFDR Parameter Table

<u>Parameter Name</u>	<u>Units</u>	<u>Subframes Used</u>	<u>Word Slot</u>
Altitude Coarse	Feet	1 - 4	6
Transducer Temp.	Deg K	1 - 4	12
Indicated Airspeed	Knots	1 - 4	21
Magnetic Heading	Degrees	1 - 4	3
Pitch Attitude	Degrees	1 - 4	4, 20, 36, 51
Roll Attitude	Degrees	1 - 4	17, 32, 48, 64
EPR Engine 1	Ratio	1 - 4	33, 52
EPR Engine 2	Ratio	1 - 4	46, 62
Vertical Accel.	G's ²	1 - 4	2, 10, 13, 18 26, 29, 34, 42 45, 50, 58, 61
Flap Position	Degrees	1 - 4	7, 39
Frame Counter Most Significant Bit	No.	1 - 4	37
Frame Counter Least Significant Bit	No.	1 - 4	14
VHF Keying 1	On/Off	1 - 4	9 (Bit 1)
VHF Keying 2	On/Off	1 - 4	9 (Bit 2)

Note: Altitude Coarse and Altitude Transducer Temperature are combined to give Pressure Altitude through an algorithm provided by the UFDR manufacturer.

² Vertical Acceleration is measured in "G"s, the ratio of a body's acceleration to the acceleration due to Earth's gravity, 32.2 feet/second/second.

TRIP DATE

S	FRAME	LAPSE	UCT	ALT	IAS	HEAD	PITCH	PITCH	PITCH	PITCH	ROLL	ROLL	ROLL	ROLL	FRMLSB
	377.	00:25	00:00	23485.	349.22	86.54	-25.389	-26.833	-27.541	-30.947	112.109	110.556	112.493	114.376	1468.0
				23182.	358.26	83.43	-30.284	-31.601	-31.925	-34.127	115.844	115.481	115.115	112.874	1469.0
				22839.	363.73	72.75	-34.736	-36.510	-37.084	-39.296	112.109	111.337	110.947	110.556	1470.0
				22389.	368.90	52.07	-40.091	-41.122	-41.627	-43.093	113.253	112.109	113.629	114.376	1471.0
	378.	00:25	00:00	21958.	376.12	38.00	-43.801	-44.944	-46.375	-47.571	115.844	116.206	116.206	116.922	1472.0
				21443.	386.71	22.11	-49.069	-50.106	-51.450	-53.130	117.277	117.979	118.327	119.358	1473.0
				20849.	394.77	11.91	-54.888	-56.104	-57.995	-59.632	120.033	119.697	120.368	121.357	1474.0
				20225.	402.54	8.00	-60.983	-61.673	-62.723	-63.794	122.005	121.682	121.682	122.326	1475.0
	379.	00:25	00:00	19530.	413.22	6.68	-64.885	-66.371	-65.996	-67.126	121.682	120.700	119.017	118.327	1476.0
				18835.	424.70	5.36	-69.053	-70.630	-71.834	-72.646	115.844	114.004	112.493	111.337	1477.0
				18017.	435.56	4.02	-74.291	-74.291	-75.543	-76.809	109.767	106.535	102.339	98.005	1478.0
				17187.	445.86	2.68	-77.661	-77.661	-78.518	-78.518	91.790	86.535	81.666	77.341	1479.0
	380.	00:25	00:00	16328.	453.66	0.45	-78.089	-78.089	-79.380	-78.089	71.130	67.221	64.246	60.727	1480.0
				15462.	464.51	0.00	-77.661	-78.089	-77.234	-76.809	57.435	54.664	50.172	45.737	1481.0
				14573.	473.75	359.66	-76.386	-75.964	-75.543	-74.707	41.186	37.720	35.410	35.112	1482.0
				13665.	483.45	358.77	-73.877	-72.646	-73.055	-71.431	33.587	32.005	29.017	26.565	1483.0
	381.	00:25	00:00	12758.	486.38	358.32	-71.431	-70.630	-69.444	-68.663	26.206	25.115	25.481	24.004	1484.0
				11781.	486.38	357.43	-67.507	-67.126	-66.747	-65.624	22.874	19.767	19.767	18.970	1485.0
				10849.	486.45	356.54	-65.253	-64.156	-63.794	-63.078	16.945	16.123	15.709	14.876	1486.0
				9965.	486.45	356.54	-63.078	-62.371	-66.747	0.000	13.614	13.614	14.876	0.000	1487.0
*	382.	00:25	:	-10703.	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0
*				-10703.	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0
*				-10703.	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0
*				-10703.	427.47	32.96	0.000	-90.336	140.437	1.790	0.000	0.895	160.332	0.000	0.0
*	383.	00:25	:	-10703.	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0
*				-10703.	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0
*				28906.	289.14	51.24	1.790	1.343	1.790	1.790	0.895	0.895	0.895	2.125	1778.0
*				28936.	289.29	51.24	1.790	2.237	1.790	1.343	0.895	0.448	0.895	0.895	1781.0
*	384.	00:25	01:	-10703.	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0
*				-10703.	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0
				28906.	288.98	51.24	1.790	2.237	1.343	1.790	0.448	0.895	0.895	0.448	1782.0
				28936.	288.98	51.24	1.790	1.790	1.790	1.790	0.895	0.448	0.895	0.448	1783.0
	385.	00:25	01:01	28976.	288.98	51.52	1.343	1.790	1.790	1.790	0.448	0.448	0.895	0.448	1784.0
				28946.	288.98	51.52	1.790	1.790	1.790	1.790	0.895	0.448	1.343	0.448	1785.0
				28916.	288.98	51.52	1.790	1.790	1.790	1.790	0.448	0.448	0.448	0.448	1786.0
				28946.	288.98	51.52	1.790	1.790	1.790	1.790	0.448	0.448	0.000	0.448	1787.0
	386.	00:25	01:01	28947.	288.98	51.52	1.790	1.343	1.790	1.790	0.000	0.448	0.448	0.448	1788.0
				28917.	288.98	51.24	1.790	1.343	1.790	1.790	0.000	0.448	0.448	0.000	1789.0
				28947.	288.98	51.79	1.343	1.790	1.790	1.790	0.000	0.000	0.000	0.000	1790.0
				28947.	288.98	51.52	1.343	1.790	1.343	1.790	0.448	0.000	0.448	0.895	1791.0
	387.	00:25	01:01	28947.	288.98	51.52	2.237	1.343	1.790	1.790	0.448	0.448	0.000	0.000	1792.0
				28917.	288.98	51.52	1.790	1.790	1.790	1.790	0.000	0.000	0.000	0.000	1793.0
				28976.	288.98	51.79	1.790	1.790	1.790	1.790	0.000	0.000	-0.336	0.000	1794.0
				28947.	288.98	51.52	1.790	1.790	1.790	1.790	0.000	0.000	0.000	0.000	1795.0
	388.	00:25	01:01	28917.	288.98	51.79	1.790	1.790	1.790	1.790	0.000	0.000	0.000	0.000	1796.0
				28947.	288.98	51.79	1.790	1.790	1.790	1.790	0.000	0.000	0.000	0.000	1797.0
				28917.	288.98	51.52	1.790	1.790	1.790	1.790	0.000	0.000	0.000	0.000	1798.0
				28947.	289.14	51.52	1.790	1.790	1.790	2.237	0.000	-0.336	-0.336	-0.336	1799.0
	389.	00:25	01:01	28947.	289.14	52.07	1.790	2.237	1.790	1.790	0.000	-0.336	0.000	0.000	1800.0
				28976.	289.59	51.52	1.343	2.237	1.790	1.790	-0.336	-0.783	-0.336	-0.336	1801.0
				28917.	289.59	51.79	1.790	1.790	1.790	1.790	-0.336	-0.783	-0.336	-0.336	1802.0
				28947.	289.59	51.79	2.237	1.790	1.790	1.790	-0.336	-0.336	-0.336	-0.336	1803.0
	390.	00:25	:01	28947.	289.44	51.79	1.790	1.790	2.237	1.790	0.000	-0.336	-0.336	-0.783	1804.0
				28917.	289.44	51.79	1.790	1.790	1.790	1.790	-0.783	-0.336	-0.336	-0.336	1805.0
				28917.	289.59	51.79	1.790	1.790	1.790	0.000	-0.336	-0.336	0.000	-10.620	1806.0
				28947.	289.44	51.79	1.790	1.790	1.790	-0.783	-0.783	-0.783	-0.783	-0.783	1809.0
	391.	00:26	01:	-10699.	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0
				-10699.	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0
				28947.	288.98	51.52	1.790	1.790	1.790	-0.783	-0.783	-0.783	-0.783	-0.783	1810.0
				28947.	288.98	51.79	2.237	1.790	1.790	1.343	-0.783	-0.336	-0.783	-0.336	1811.0

END END

TRIP DATE

S	FRAME	LAPSE	UCT	ALT	IAS	VERG	VERG	VERG	VERG	VERG,	VERG,	VERG,	VERG,	VERG.	VERG.	VERG.	VERG.
362.	00:24	00:00	25009.	321.72	0.9962	1.0544	1.0836	1.1127	0.9816	1.0399	1.0544	1.1272	0.9962	0.9962	1.0690	1.0836	
			24959.	321.85	1.0544	1.0544	1.0399	1.1127	1.0836	1.0399	1.0399	1.0690	1.0690	1.1127	1.0544	1.0836	
			25009.	322.23	1.0836	1.0399	1.0399	1.0981	1.0399	1.0544	0.9962	1.0544	1.0544	1.0399	1.0836	1.0836	
			24984.	321.98	1.0544	1.0253	1.0544	1.0253	1.0399	0.9671	0.9962	1.0544	1.0544	0.9962	0.9962	1.0690	
363.	00:24	00:00	24984.	321.98	1.0690	1.0544	0.9962	0.9816	1.0544	1.0399	1.0544	1.0544	1.0544	1.0253	1.0253	1.0399	
			24959.	322.11	0.9962	1.0253	1.0544	1.0544	1.0253	1.0544	1.0253	0.9962	1.0544	1.0544	1.0399	0.9962	
			24959.	322.23	0.9816	1.0253	1.0253	0.9962	0.9816	1.0253	1.0544	0.9671	0.9962	0.9816	0.9816	1.0253	
			24959.	322.36	1.0253	0.9962	0.9671	0.9525	0.9962	1.0399	1.0253	0.9816	0.9525	0.9816	1.0836	1.0253	
364.	00:24	00:00	24959.	322.74	0.9962	0.9816	0.9816	1.0399	0.9816	0.9816	0.9671	0.9962	0.9816	0.9816	1.0399	0.9962	
			24934.	322.62	0.9962	1.0253	0.9816	0.9816	0.9962	0.9816	0.9962	0.9816	1.0253	1.0253	0.9816	0.9816	
			24934.	322.62	1.0253	0.9816	0.9962	1.0399	1.0253	0.9816	0.9962	1.0399	0.9816	0.9816	0.9671	1.0253	
			24934.	322.74	1.0544	1.0399	1.0253	0.9671	0.9962	1.0253	1.0544	1.0544	1.0253	1.0253	1.0399	1.0399	
365.	00:24	00:00	24959.	322.74	1.0399	0.9962	0.9962	1.0399	1.1127	1.0836	1.0544	1.0981	1.1127	1.1127	1.1127	1.1127	
			24934.	322.62	1.1418	1.1127	1.1418	1.1418	1.1127	1.0690	1.0544	1.0690	1.0690	1.0836	0.9962	0.9816	
			24909.	322.36	0.9816	0.9962	1.0690	1.0399	0.9816	1.0399	1.0399	1.0544	1.0253	1.0544	0.9816	0.9816	
			24934.	322.36	0.9962	1.0399	1.0690	0.9962	1.0544	1.0399	1.0399	1.0253	1.0544	1.0253	1.0399	1.0399	
366.	00:24	00:00	24984.	322.23	1.0544	0.9962	1.0544	1.0544	1.0253	1.0544	1.0399	0.9962	0.9816	1.0544	1.1127		
			24984.	321.85	1.0253	0.9816	1.0399	1.0399	0.9962	0.9962	0.9962	1.0253	1.0836	1.0544	0.9380	0.9525	
			25009.	321.60	0.9671	1.0544	1.0253	1.0253	0.9525	0.9525	0.9671	0.9671	0.9816	1.0253	0.9671	0.9525	
			25009.	321.34	0.9671	0.9525	0.9671	0.9816	0.9671	0.9671	0.9816	0.9671	0.9816	0.9816	0.9671	0.9816	
367.	00:24	00:00	25034.	321.21	0.9671	0.9525	0.9671	0.9816	0.9525	0.9671	0.9671	0.9380	0.9671	0.9816	0.9816	0.9234	
			25009.	321.21	0.9380	0.9816	1.0108	0.9816	0.9816	0.9816	0.9816	1.0690	0.9962	1.0399	1.0544	1.0399	
			25009.	320.83	0.9962	1.0253	1.0399	1.0399	0.9525	0.9816	0.9671	1.0253	0.9234	0.9234	0.9234	0.9816	
			25009.	320.70	0.9671	0.9525	0.9088	0.9088	0.9380	0.9816	0.9525	0.9525	0.9816	0.9671	1.0399	1.0253	
368.	00:24	00:00	25034.	320.44	1.0253	1.0253	0.9962	1.0544	1.0690	1.0399	1.0399	1.0253	1.0399	1.0253	0.9671	0.9962	
			25009.	320.19	0.9816	1.0544	1.0253	1.0253	0.9816	1.0253	1.0253	0.9816	1.0544	1.0253	0.9816	0.9816	
			25009.	320.19	0.9671	1.0544	0.9962	0.9962	1.0253	1.0399	0.9816	0.9816	0.9962	1.0399	1.0253	0.9671	
			25034.	320.19	0.9816	1.0253	1.0399	1.0399	0.9816	1.0108	1.0108	1.0544	1.0399	0.9962	0.9816	1.0253	
369.	00:24	00:00	25034.	320.57	1.0399	0.9962	1.0253	0.9816	0.9962	0.9962	1.0544	0.9671	0.9962	1.0253	0.9816	0.9962	
			25034.	320.83	0.9671	1.0253	0.9962	1.0253	0.9816	1.0399	1.0544	0.9816	0.9816	1.0544	1.0399		
			25034.	321.21	1.0253	0.9962	0.9816	0.9962	1.0253	0.9816	0.9816	0.9962	1.0544	1.0253	1.0253	0.9816	
			25009.	321.85	1.0399	1.0253	0.9962	0.9962	0.9962	1.0253	1.0399	0.9962	1.0253	1.0399	0.9962	0.9816	
370.	00:24	00:00	25009.	322.49	0.9525	0.9816	1.0399	1.0253	0.9962	0.9962	0.9816	1.0399	1.0399	1.0399	1.0253	1.0253	
			24959.	323.12	1.0544	1.0253	1.0399	1.0544	0.9816	1.0836	1.0690	1.0399	0.9962	1.0253	1.0690		
			24934.	323.89	1.1127	1.0690	0.9816	0.9962	1.0399	1.0253	0.9962	1.0253	1.0253	1.0399	0.9962	1.0253	
			24934.	324.90	1.0544	1.0399	0.9816	0.9962	0.9962	0.9816	1.0399	0.9962	0.9962	1.1127	1.1127		
371.	00:24	00:00	24834.	325.53	1.0690	1.0544	1.0836	1.0690	1.0836	1.0544	1.0544	1.0544	1.0836	1.0836	1.0253	1.0544	
			24809.	326.41	1.0544	1.0399	0.9962	0.9962	0.9962	1.0253	0.9962	0.9671	0.9816	0.9671	1.0253	0.9962	
			24735.	327.16	1.0108	0.9962	1.0544	0.9962	1.0836	1.0544	1.0253	1.0690	1.0399	1.0399	1.0836	1.0836	
			24686.	328.16	1.0690	1.0399	1.0399	1.0253	1.0836	1.1127	1.1127	1.1127	1.1564	1.1709	1.2292	1.1709	
372.	00:24	00:00	24612.	329.16	1.1418	1.2000	1.2000	1.2146	1.2874	1.2728	1.2728	1.3456	1.3165	1.2874	1.2874	1.3602	
			24612.	330.27	1.3020	1.3748	1.2583	1.3311	1.2874	1.3893	1.3311	1.4476	1.5058	1.4621	1.5640	1.4621	
			24563.	330.65	1.5349	1.5058	1.4184	1.4184	1.3456	1.3456	1.3311	1.4039	1.3893	1.2874	1.3456	1.3602	
			24489.	330.77	1.3165	1.3893	1.2583	1.3020	1.3602	1.4184	1.3165	1.2437	1.4621	1.4621	1.4330	1.3602	
373.	00:24	00:00	24465.	330.40	1.4039	1.3748	1.3893	1.3748	1.3311	1.3456	1.3893	1.2146	1.2874	1.2292	1.2583	1.2437	
			24440.	330.52	1.1564	1.2146	1.2728	1.2437	1.2728	1.2292	1.1709	1.2292	1.2292	1.2583	1.2583	1.2874	
			24416.	330.15	1.2874	1.3165	1.2583	1.3020	1.1418	1.2146	1.1564	1.2000	1.2292	1.2292	1.1272	1.1418	
			24440.	329.28	1.1127	1.1272	1.1418	1.0399	1.0399	1.0836	1.0690	1.1127	1.0690	1.1418	1.1127	1.1564	
374.	00:24	00:00	24440.	328.91	1.1418	1.1709	1.0836	1.0399	1.0253	1.0399	0.9962	0.9816	0.9962	0.9671	0.9525	0.9816	
			24489.	328.04	1.0253	0.9380	0.9525	0.9234	1.0544	1.0544	1.0544	1.0253	0.9962	1.0253	0.9671	0.9525	
			24489.	327.29	0.9380	0.9380	0.9234	0.9380	0.8652	0.8360	0.8797	0.9234	0.8943	0.9525	0.9962	1.0544	
			24489.	327.66	0.9962	0.9816	0.9671	0.9816	1.0544	0.9671	0.9816	1.0690	1.0836	1.1418	1.1272	1.1709	
375.	00:24	00:00	24465.	327.91	1.2000	1.2437	1.2000	1.3020	1.5204	1.4621	1.4184	1.4039	1.4912	1.3456	1.2437	1.2874	
			24440.	327.91	1.2437	1.0836	1.1272	1.1272	1.0544	1.0836	1.1127	1.2292	1.2874	1.3165	1.4184	1.3456	
			24367.	329.03	1.3456	1.3748	1.3748	1.3456	1.3165	1.3456	1.3456	1.3020	1.1709	1.2583	1.1564	1.1564	
			24319.	329.65	1.1418	1.1709	1.2146	1.2146	1.1272	1.1127	1.1564	1.2437	1.2146	1.2146	1.1272		
376.	00:25	00:00	24246.	332.13	1.1855	1.3311	1.3020	1.4476	1.4621	1.4621	1.6223	1.5786	1.4476	1.4621	1.3602	1.1184	
			24101.	334.58	1.2874	1.2000	1.2874	1.2146	1.2000	1.2437	1.2292	1.3020	1.3456	1.3020	1.2728	1.4621	
			23910.	337.97	1.3456	1.3456	1.4330	1.4039	1.2874	1.3602	1.3602	1.4039	1.4767	1.4767	1.5204	1.4767	
			23720.	343.00	1.5495	1.4912	1.4039	1.5058	1.4621	1.4621	1.5349	1.4039	1.3602	1.3602	1.2583	1.2583	

TRIP DATE

S	FRAME	LAPSE	UCT	ALT	IAS	HEAD	EPR 1	EPR 1	EPR 2	EPR 2	FLAP	FLAP	FRMLSB
•	347.	00:23	:	25010.	321.21	147.43	1.7805	1.7805	1.7656	1.7656	0.000	0.000	1350.0
•				-10703.	0.00	0.00	0.8321	0.8321	0.8321	0.8321	0.000	0.000	0.0
•				-10703.	0.00	0.00	0.8321	0.8321	0.8321	0.8321	0.000	0.000	0.0
				25010.	321.21	148.08	1.7741	1.7720	1.7635	1.7635	0.000	0.000	1351.0
	348.	00:23	00:00	25010.	321.34	147.75	1.7805	1.7805	1.7635	1.7635	0.000	0.000	1352.0
				25010.	321.47	147.43	1.7869	1.7826	1.7635	1.7550	0.000	0.000	1353.0
				25010.	321.60	147.75	1.7826	1.7741	1.7656	1.7678	0.000	0.000	1354.0
				25010.	321.60	147.43	1.7869	1.7805	1.7592	1.7614	0.000	0.000	1355.0
	349.	00:23	00:00	25010.	321.72	147.43	1.7784	1.7784	1.7614	1.7614	0.000	0.000	1356.0
				25010.	321.60	147.43	1.7826	1.7826	1.7656	1.7529	0.000	0.000	1357.0
				25010.	321.60	147.43	1.7826	1.7826	1.7592	1.7614	0.000	0.000	1358.0
				25010.	321.72	147.43	1.7784	1.7763	1.7592	1.7656	0.000	0.000	1359.0
	350.	00:23	00:00	25010.	321.72	147.43	1.7826	1.7805	1.7635	1.7656	0.000	0.000	1360.0
				25010.	321.72	147.43	1.7784	1.7805	1.7635	1.7614	0.000	0.000	1361.0
				25010.	321.72	147.43	1.7805	1.7805	1.7656	1.7614	0.000	0.000	1362.0
				25010.	321.72	147.43	1.7848	1.7826	1.7614	1.7635	0.000	0.000	1363.0
	351.	00:23	00:00	25010.	321.72	147.75	1.7805	1.7763	1.7592	1.7656	0.000	0.000	1364.0
				25010.	321.72	147.75	1.7805	1.7826	1.7635	1.7635	0.000	0.000	1365.0
				25010.	321.72	147.43	1.7826	1.7826	1.7592	1.7656	0.000	0.000	1366.0
				25010.	321.72	147.75	1.7848	1.7869	1.7656	1.7805	0.000	0.000	1367.0
	352.	00:23	00:00	25010.	321.72	147.75	1.7848	1.7805	1.7635	1.7869	0.000	0.000	1368.0
				25010.	321.72	147.43	1.7848	1.7848	1.7678	1.7635	0.000	0.000	1369.0
				25010.	321.72	147.75	1.7848	1.7826	1.7614	1.7678	0.000	0.000	1370.0
				25010.	321.85	147.75	1.7826	1.7826	1.7656	1.7614	0.000	0.000	1371.0
	353.	00:23	00:00	25010.	321.98	147.75	1.7826	1.7805	1.7614	1.7699	0.000	0.000	1372.0
				25010.	322.11	147.75	1.7826	1.7826	1.7635	1.7656	0.000	0.000	1373.0
				25010.	322.23	147.75	1.7805	1.7826	1.7592	1.7614	0.000	0.000	1374.0
				25010.	322.23	147.75	1.7805	1.7784	1.7614	1.7592	0.000	0.000	1375.0
	354.	00:23	00:00	24985.	322.23	147.75	1.7784	1.7784	1.7656	1.7614	0.000	0.000	1376.0
				25010.	322.23	147.43	1.7720	1.7784	1.7656	1.7656	0.000	0.000	1377.0
				25010.	322.36	147.75	1.7763	1.7784	1.7656	1.7614	0.000	0.000	1378.0
				24985.	322.23	147.75	1.7784	1.7805	1.7656	1.7656	0.000	0.000	1379.0
	355.	00:23	00:00	25010.	322.23	147.43	1.7763	1.7784	1.7635	1.7614	0.000	0.000	1380.0
				24985.	322.36	147.43	1.7805	1.7826	1.7635	1.7656	0.000	0.000	1381.0
				25010.	322.62	147.43	1.7805	1.7784	1.7635	1.7614	0.000	0.000	1382.0
				24985.	322.62	147.43	1.7805	1.7848	1.7592	1.7635	0.000	0.000	1383.0
	356.	00:23	00:00	24984.	322.36	147.43	1.7826	1.7805	1.7656	1.7656	0.000	0.000	1384.0
				24984.	322.23	147.12	1.7763	1.7763	1.7614	1.7614	0.000	0.000	1385.0
				25009.	322.23	147.75	1.7784	1.7805	1.7635	1.7614	0.000	0.000	1386.0
				25009.	322.23	147.43	1.7763	1.7784	1.7635	1.7592	0.000	0.000	1387.0
	357.	00:23	00:00	24984.	322.11	147.43	1.7826	1.7805	1.7614	1.7614	0.000	0.000	1388.0
				25009.	321.98	147.43	1.7805	1.7826	1.7614	1.7635	0.000	0.000	1389.0
				24984.	322.23	147.12	1.7805	1.7805	1.7592	1.7635	0.000	0.000	1390.0
				25009.	322.11	147.43	1.7805	1.7805	1.7635	1.7635	0.000	0.000	1391.0
	358.	00:23	00:00	25009.	322.11	147.43	1.7805	1.7805	1.7635	1.7635	0.000	0.000	1392.0
				24984.	322.11	147.43	1.7805	1.7805	1.7614	1.7614	0.000	0.000	1393.0
				24984.	321.98	147.43	1.7805	1.7848	1.7635	1.7614	0.000	0.000	1394.0
				25009.	321.85	147.43	1.7848	1.7826	1.7529	1.7635	0.000	0.000	1395.0
	359.	00:23	00:00	24984.	321.72	147.43	1.7805	1.7826	1.7614	1.7635	0.000	0.000	1396.0
				25009.	321.72	147.75	1.7826	1.7826	1.7635	1.7635	0.000	0.000	1397.0
				25009.	321.85	147.75	1.7826	1.7826	1.7635	1.7635	0.000	0.000	1398.0
				25009.	321.85	147.43	1.7826	1.7805	1.7614	1.7614	0.000	0.000	1399.0
	360.	00:23	00:00	24984.	321.72	147.75	1.7784	1.7805	1.7656	1.7656	0.000	0.000	1400.0
				25009.	321.72	147.75	1.7826	1.7826	1.7656	1.7656	0.000	0.000	1401.0
				25009.	321.72	147.43	1.7826	1.7848	1.7614	1.7614	0.000	0.000	1402.0
				25009.	321.60	147.75	1.7848	1.7848	1.7656	1.7656	0.000	0.000	1403.0
	361.	00:24	00:00	24984.	321.72	147.75	1.7826	1.7848	1.7656	1.7635	0.000	0.000	1404.0
				25009.	321.72	148.40	1.7848	1.7869	1.7614	1.7678	0.000	0.000	1405.0
				25009.	321.85	148.72	1.7826	1.7826	1.7635	1.7635	0.000	0.000	1406.0
				24984.	321.72	150.05	1.7805	1.7805	1.7678	1.7592	0.000	0.000	1407.0

TRIP DATE

S	FRAME	LAPSE	UCT	ALT	IAS	VERG	VERG	VERG	VERG	VERG,	VERG,	VERG,	VERG,	VERG.	VERG.	VERG.	VERG.
377.	00:25	00:00		23485.	349.22	1.1418	1.2000	1.2292	1.2146	1.3748	1.4476	1.5932	1.7388	1.9135	2.0445	2.0882	1.5640
				23182.	358.26	1.9135	1.9426	1.7242	1.7096	2.0445	2.2484	1.7096	2.1464	2.1173	1.9863	2.2192	2.1901
				22839.	363.73	2.2192	2.4959	2.0882	2.1901	3.1656	2.9472	2.6852	4.3450	3.1802	2.4522	2.7143	2.0591
				22389.	368.90	1.4767	1.8989	2.2920	2.9472	1.8407	1.5058	1.7824	2.2629	2.2338	2.2338	2.1610	2.2629
378.	00:25	00:00		21958.	376.12	2.5250	2.3503	1.8552	1.7970	2.6852	2.4231	2.9618	1.9135	2.5832	2.0882	2.3940	2.4231
				21443.	386.71	2.5687	2.8016	2.0445	2.2629	2.3212	2.0008	2.3503	2.4959	2.5978	2.6706	2.6560	3.0055
				20849.	394.77	2.8599	3.5005	2.2484	2.6706	2.0300	2.8453	2.6124	2.8599	2.9181	3.0783	2.3503	2.6997
				20225.	402.54	2.4813	2.8162	2.2192	1.9572	2.2192	2.4085	2.5250	2.2338	1.5786	2.2629	1.1709	2.6852
379.	00:25	00:00		19530.	413.22	1.3748	1.4912	1.3748	1.7824	1.2874	1.0399	1.6223	1.3165	0.9816	0.9671	1.5932	2.0736
				18835.	424.70	2.9036	2.1464	1.4184	1.7679	2.3648	1.6951	1.4621	3.3112	1.9426	2.1028	1.7388	2.1610
				18017.	435.56	2.0591	2.0882	2.3503	1.5786	2.6706	2.6269	2.0882	2.7725	2.7288	1.7970	1.7970	2.2629
				17187.	445.86	2.2775	2.3794	3.1948	3.1511	2.7871	3.3258	3.4277	2.7725	2.6560	2.2775	2.3794	1.7096
380.	00:25	00:00		16328.	453.66	1.9426	2.5687	2.6269	2.9909	2.2047	2.6124	3.7626	2.7434	2.7725	2.6124	2.3794	2.9764
				15462.	464.51	2.6852	0.9816	1.6660	1.7533	1.7679	2.0008	2.3794	1.6368	2.0008	2.4231	2.5541	3.0637
				14573.	473.75	3.1365	1.9572	1.6223	1.9135	2.2775	2.1028	2.5687	2.0736	1.6660	2.2920	2.3357	1.8261
				13665.	483.45	2.5832	1.6805	2.0591	2.0882	1.8552	1.6514	2.3503	2.3940	2.2629	2.1756	1.8407	1.8552
381.	00:25	00:00		12758.	486.38	1.8407	1.9280	2.1756	2.3212	2.2775	2.2920	2.1756	2.2484	2.0882	2.1756	2.0154	1.9135
				11781.	486.38	2.2920	1.9572	1.7970	1.8116	2.0882	2.3648	1.7679	1.8698	2.0445	2.1756	2.6269	2.3794
				10849.	486.45	2.0882	2.5541	2.1610	2.2775	2.2484	1.7242	1.4912	2.1610	1.7242	1.7388	1.4330	2.4668
				9965.	486.45	1.7242	1.4476	0.5157	0.4866	-0.6636	-1.2752	-1.7120	-3.5465	-2.9496	8.4364	8.4364	8.4364
382.	00:25	:		-10703.	0.00	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364
				-10703.	0.00	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364
				-10703.	0.00	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364
				-10703.	427.47	-3.4446	8.4364	7.1114	6.2087	8.4364	1.9717	-2.7312	8.4364	8.4364	8.4364	8.4364	1.8407
383.	00:25	:		-10703.	0.00	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364
				-10703.	0.00	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364
				28906.	289.14	0.9671	0.9816	0.9962	0.9816	0.9816	0.9380	0.9525	0.9671	0.9962	0.9671	0.9816	-2.7457
				28936.	289.29	0.9525	0.9234	0.9816	0.9525	0.9816	0.9671	0.9671	0.9816	0.9671	0.9380	0.9671	0.9525
384.	00:25	01:		-10703.	0.00	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364
				-10703.	0.00	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364
				28906.	288.98	0.9671	0.9380	0.9671	0.9816	0.9525	0.9525	0.9671	0.9816	0.9816	0.9816	0.9816	0.9380
				28936.	288.98	0.9671	0.9380	0.9816	0.9816	0.9234	0.9525	0.9671	0.9525	0.9816	0.9380	0.9525	0.9816
385.	00:25	01:01		28976.	288.98	0.9816	0.9816	0.9671	0.9816	0.9671	0.9671	0.9380	0.9671	1.0253	0.9962	0.9962	0.9816
				28946.	288.98	0.9671	0.9525	0.9380	0.9962	0.9962	0.9671	0.9816	0.9525	0.9816	0.9671	0.9234	0.9816
				28916.	288.98	0.9525	0.9816	0.9671	0.9962	1.0253	0.9380	0.9962	0.9816	0.9816	1.0399	0.9962	0.9671
				28946.	288.98	0.9816	0.9525	0.9671	0.9380	0.9816	0.9671	1.0108	0.9525	0.9525	0.9380	0.9671	0.9525
386.	00:25	01:01		28947.	288.98	0.9525	0.9525	0.9816	0.9816	0.9816	0.9671	0.9816	0.9816	0.9962	0.9816	0.9816	0.9525
				28917.	288.98	0.9816	0.9816	0.9816	0.9380	0.9525	0.9671	0.9671	0.9816	0.9816	0.9671	0.9671	0.9816
				28947.	288.98	0.9671	1.0253	0.9816	0.9816	0.9380	0.9380	0.9380	0.9816	1.0253	0.9962	0.9380	0.9816
				28947.	288.98	0.9671	1.0253	0.9671	0.9962	0.9962	0.9671	0.9671	0.9816	0.9816	0.9962	1.0253	0.9671
387.	00:25	01:01		28947.	288.98	0.9816	0.9671	0.9962	0.9671	0.9962	0.9671	0.9962	0.9816	0.9962	0.9671	0.9816	0.9380
				28917.	288.98	0.9962	1.0253	0.9962	0.9816	0.9671	1.0253	0.9816	0.9816	0.9816	1.0253	0.9816	0.9671
				28976.	288.98	0.9816	1.0108	0.9816	1.0399	0.9962	0.9671	0.9816	0.9380	1.0253	0.9816	0.9962	0.9816
				28947.	288.98	0.9671	0.9816	0.9525	0.9962	0.9962	1.0108	0.9816	0.9671	0.8797	0.9816	0.9816	0.9816
388.	00:25	01:01		28917.	288.98	0.9816	0.9380	0.9525	0.9525	0.9962	0.9962	1.0108	0.9671	0.9816	1.0108	0.9816	0.9525
				28947.	288.98	0.9380	0.9816	0.9525	0.9671	0.9525	0.9962	0.9671	0.9816	0.9816	0.9816	0.9816	0.9962
				28917.	288.98	0.9962	0.9962	0.9671	0.9525	0.9671	0.9671	0.9816	0.9671	1.0253	1.0253	0.9671	0.9671
				28947.	289.14	0.9525	0.9816	0.9671	0.9816	1.0108	0.9816	0.9816	1.0108	0.9525	0.9816	0.9525	0.9525
389.	00:25	01:01		28947.	289.14	0.9962	0.9671	0.9525	0.9525	0.9671	0.9962	0.9962	0.9816	0.9671	0.9816	0.9816	0.9525
				28976.	289.59	0.9816	0.9525	0.9525	0.9088	0.9816	0.9816	0.9962	0.9525	0.9525	0.9671	0.9816	0.9525
				28917.	289.59	0.9816	0.9816	0.9816	1.0253	0.9380	0.9525	0.9671	0.9671	0.9816	0.9671	0.9671	0.9671
				28947.	289.59	0.9671	0.9525	0.9525	0.9671	0.9525	0.9525	0.9962	0.9816	0.9525	0.9525	0.9816	1.0253
390.	00:25	:01		28947.	289.44	0.9816	0.9671	0.9962	0.9671	0.9671	0.9525	0.9671	0.9816	0.9671	0.9962	0.9671	0.9671
				28917.	289.44	0.9671	0.9816	0.9671	0.9525	0.9525	0.9962	0.9962	0.9671	0.9380	0.9671	0.9525	0.9671
				28917.	289.59	0.9671	0.9962	0.9816	0.9962	1.0108	0.9816	0.9671	8.4364	8.4364	1.6514	8.4364	8.4364
				28947.	289.44	0.9816	0.9525	0.9525	0.9816	0.9671	0.9816	0.9380	0.9671	0.9816	0.9671	0.9671	0.9962
391.	00:26	01:		-10699.	0.00	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364
				-10699.	0.00	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364
				28947.	288.98	0.9816	0.9671	0.9671	0.9816	0.9380	0.9671	0.9671	0.9816	0.9525	0.9525	0.9671	0.9962
				28947.	288.98	0.9525	0.9962	0.9962	0.9816	0.9816	1.0108	0.9816	0.9816	0.9671	0.9816	0.9380	1.0108

END END

TRIP DATE

S	FRAME	LAPSE	UCT	ALT	IAS	HEAD	EPR 1	EPR 1	EPR 2	EPR 2	FLAP	FLAP	FRMLSB
362.	00:24	00:00	25009.	321.72	150.73	1.7869	1.7848	1.7614	1.7614	0.000	0.000	1408.0	
			24959.	321.85	152.46	1.7826	1.7805	1.7656	1.7635	0.000	0.000	1409.0	
			25009.	322.23	153.52	1.7826	1.7848	1.7656	1.7635	0.000	0.000	1410.0	
			24984.	321.98	154.98	1.7848	1.7848	1.7614	1.7614	0.000	0.000	1411.0	
363.	00:24	00:00	24984.	321.98	156.09	1.7848	1.7826	1.7635	1.7592	0.000	0.000	1412.0	
			24959.	322.11	157.22	1.7805	1.7805	1.7635	1.7635	0.000	0.000	1413.0	
			24959.	322.23	158.37	1.7805	1.7805	1.7635	1.7614	0.000	0.000	1414.0	
			24959.	322.36	159.15	1.7805	1.7784	1.7635	1.7656	0.000	0.000	1415.0	
364.	00:24	00:00	24959.	322.74	159.54	1.7784	1.7805	1.7614	1.7592	0.000	0.000	1416.0	
			24934.	322.62	159.94	1.7805	1.7826	1.7592	1.7614	0.000	0.000	1417.0	
			24934.	322.62	160.33	1.7763	1.7784	1.7550	1.7614	0.000	0.000	1418.0	
			24934.	322.74	160.33	1.7784	1.7784	1.7635	1.7592	0.000	0.000	1419.0	
365.	00:24	00:00	24959.	322.74	160.73	1.7741	1.7805	1.7614	1.7571	0.000	0.000	1420.0	
			24934.	322.62	160.73	1.7826	1.7805	1.7635	1.7592	0.000	0.000	1421.0	
			24909.	322.36	160.73	1.7826	1.7826	1.7592	1.7592	0.000	0.000	1422.0	
			24934.	322.36	160.73	1.7805	1.7826	1.7614	1.7571	0.000	0.000	1423.0	
366.	00:24	00:00	24984.	322.23	160.33	1.7805	1.7805	1.7592	1.7571	0.000	0.000	1424.0	
			24984.	321.85	160.33	1.7784	1.7805	1.7592	1.7635	0.000	0.000	1425.0	
			25009.	321.60	159.94	1.7805	1.7805	1.7592	1.7614	0.000	0.000	1426.0	
			25009.	321.34	159.15	1.7763	1.7784	1.7592	1.7550	0.000	0.000	1427.0	
367.	00:24	00:00	25034.	321.21	158.37	1.7805	1.7784	1.7571	1.7592	0.000	0.000	1428.0	
			25009.	321.21	157.22	1.7805	1.7805	1.7635	1.7635	0.000	0.000	1429.0	
			25009.	320.83	156.46	1.7805	1.7869	1.7614	1.7635	0.000	0.000	1430.0	
			25009.	320.70	154.98	1.7826	1.7826	1.7614	1.7614	0.000	0.000	1431.0	
368.	00:24	00:00	25034.	320.44	152.11	1.7805	1.7826	1.7592	1.7635	0.000	0.000	1432.0	
			25009.	320.19	149.72	1.7763	1.7848	1.7635	1.7592	0.000	0.000	1433.0	
			25009.	320.19	147.43	1.7826	1.7826	1.7635	1.7614	0.000	0.000	1434.0	
			25034.	320.19	145.57	1.7805	1.7826	1.7656	1.7656	0.000	0.000	1435.0	
369.	00:24	00:00	25034.	320.57	143.49	1.7869	1.7848	1.7635	1.7635	0.000	0.000	1436.0	
			25034.	320.83	142.07	1.7826	1.7826	1.7635	1.7635	0.000	0.000	1437.0	
			25034.	321.21	139.91	1.7805	1.7805	1.7614	1.7592	0.000	0.000	1438.0	
			25009.	321.85	138.12	1.7784	1.7784	1.7571	1.7592	0.000	0.000	1439.0	
370.	00:24	00:00	25009.	322.49	135.74	1.7805	1.7805	1.7252	1.7210	0.000	0.000	1440.0	
			24959.	323.12	133.63	1.7763	1.7741	1.7082	1.7125	0.000	0.000	1441.0	
			24934.	323.89	134.32	1.7699	1.7252	1.6465	1.5721	0.000	0.000	1442.0	
			24934.	324.90	134.09	1.5827	1.5657	1.5232	1.5253	0.000	0.000	1443.0	
371.	00:24	00:00	24834.	325.53	132.91	1.5615	1.5700	1.5211	1.5274	0.000	0.000	1444.0	
			24809.	326.41	133.15	1.5700	1.5742	1.5232	1.5253	0.000	0.000	1445.0	
			24735.	327.16	132.43	1.5785	1.5764	1.5168	1.5189	0.000	0.000	1446.0	
			24686.	328.16	131.69	1.5742	1.5742	1.5147	1.5147	0.000	0.000	1447.0	
372.	00:24	00:00	24612.	329.16	131.44	1.5742	1.5721	1.5126	1.5126	0.000	0.000	1448.0	
			24612.	330.27	131.44	1.5764	1.5764	1.5083	1.5083	0.000	0.000	1449.0	
			24563.	330.65	132.18	1.5721	1.5764	1.5104	1.5062	0.000	0.000	1450.0	
			24489.	330.77	132.67	1.5742	1.5742	1.5019	1.5083	0.000	0.000	1451.0	
373.	00:24	00:00	24465.	330.40	132.91	1.5742	1.5700	1.5083	1.5083	0.000	0.000	1452.0	
			24440.	330.52	132.91	1.5721	1.5785	1.5062	1.5083	0.000	0.000	1453.0	
			24416.	330.15	133.39	1.5700	1.5700	1.5062	1.5083	0.000	0.000	1454.0	
			24440.	329.28	133.63	1.5742	1.5168	1.4445	1.4041	0.000	0.000	1455.0	
374.	00:24	00:00	24440.	328.91	132.91	1.3616	1.3424	1.3127	1.2999	0.000	0.000	1456.0	
			24489.	328.04	131.94	1.3233	1.3275	1.2786	1.2723	0.000	0.000	1457.0	
			24489.	327.29	130.42	1.3275	1.3275	1.2616	1.2574	0.000	0.000	1458.0	
			24489.	327.66	130.42	1.3275	1.3275	1.2595	1.2552	0.000	0.000	1459.0	
375.	00:24	00:00	24465.	327.91	128.55	1.3233	1.3212	1.2510	1.2510	0.000	0.000	1460.0	
			24440.	327.91	127.44	1.3084	1.2893	1.2297	1.2255	0.000	0.000	1461.0	
			24367.	329.03	123.59	1.2638	1.2616	1.2085	1.1829	0.000	0.000	1462.0	
			24319.	329.65	119.36	1.2552	1.2531	1.1702	1.1723	0.000	0.000	1463.0	
376.	00:25	00:00	24246.	332.13	111.72	1.2510	1.2531	1.1744	1.1744	0.000	0.000	1464.0	
			24101.	334.58	95.36	1.2510	1.2531	1.1681	1.1702	0.000	0.000	1465.0	
			23910.	337.97	90.00	1.2489	1.2467	1.1638	1.1595	0.000	0.000	1466.0	
			23720.	343.00	83.87	1.2382	1.2382	1.1553	1.1595	0.000	0.000	1467.0	

TRIP DATE

S	FRAME	LAPSE	UCT	ALT	IAS	HEAD	PITCH	PITCH	PITCH	PITCH	ROLL	ROLL	ROLL	ROLL	FRMLSB
*	347.	00:23	:	25010.	321.21	147.43	1.343	0.895	0.895	1.343	-0.336	-0.336	-0.336	-0.336	1350.0
*				-10703.	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0
*				-10703.	0.00	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0
				25010.	321.21	148.08	0.895	0.895	0.895	1.343	-0.783	-0.336	-0.336	-0.336	1351.0
348.	00:23	00:00		25010.	321.34	147.75	0.895	1.343	0.895	1.343	-0.783	-0.783	-1.231	0.000	1352.0
				25010.	321.47	147.43	0.895	0.895	1.343	0.895	-0.336	-0.336	-0.783	-0.336	1353.0
				25010.	321.60	147.75	0.895	1.343	0.895	0.000	-0.336	-0.336	-0.336	-0.336	1354.0
				25010.	321.60	147.43	1.343	0.895	0.895	1.343	-0.336	-0.336	-0.783	-0.783	1355.0
349.	00:23	00:00		25010.	321.72	147.43	1.343	0.895	0.895	0.895	-0.783	-0.336	-0.336	-0.783	1356.0
				25010.	321.60	147.43	0.895	0.895	1.343	1.790	-0.336	-0.336	-0.783	0.000	1357.0
				25010.	321.60	147.43	0.895	0.895	1.343	1.790	-0.336	-0.783	-0.336	-0.336	1358.0
				25010.	321.72	147.43	1.343	1.343	1.343	1.343	-0.336	-0.336	-0.336	-0.336	1359.0
350.	00:23	00:00		25010.	321.72	147.43	0.895	1.343	1.343	0.448	-0.336	-0.336	0.000	-0.336	1360.0
				25010.	321.72	147.43	0.895	1.343	1.343	1.343	-0.336	-0.336	-0.336	-0.783	1361.0
				25010.	321.72	147.43	1.343	0.000	1.343	1.343	0.000	0.000	-0.336	0.000	1362.0
				25010.	321.72	147.43	1.790	0.895	1.343	1.343	0.000	-0.336	-0.336	-0.336	1363.0
351.	00:23	00:00		25010.	321.72	147.75	0.895	1.343	0.895	0.895	-0.336	0.000	0.000	0.000	1364.0
				25010.	321.72	147.75	0.895	1.343	1.343	0.895	0.000	0.000	0.000	0.000	1365.0
				25010.	321.72	147.43	1.343	0.895	0.895	0.895	0.000	0.000	0.000	0.000	1366.0
				25010.	321.72	147.75	0.448	0.895	0.895	0.895	0.000	-0.336	0.000	0.000	1367.0
352.	00:23	00:00		25010.	321.72	147.75	1.790	0.448	1.343	1.343	0.000	0.000	0.000	0.000	1368.0
				25010.	321.72	147.43	1.343	0.000	1.790	1.790	0.000	0.448	0.000	0.000	1369.0
				25010.	321.72	147.75	0.895	0.448	1.343	1.343	0.000	0.000	0.000	0.000	1370.0
				25010.	321.85	147.75	1.343	0.000	1.343	1.790	0.000	0.000	-0.336	0.000	1371.0
353.	00:23	00:00		25010.	321.98	147.75	0.895	0.448	1.343	1.343	0.000	0.000	-0.336	0.000	1372.0
				25010.	322.11	147.75	1.343	1.343	1.343	1.343	-0.336	0.000	0.000	-0.336	1373.0
				25010.	322.23	147.75	0.895	0.895	0.895	0.895	0.000	-0.336	-0.336	0.000	1374.0
				25010.	322.23	147.75	1.343	0.895	1.343	1.790	-0.336	0.000	-0.783	-0.336	1375.0
354.	00:23	00:00		24985.	322.23	147.75	1.343	1.343	0.895	1.343	-0.336	-0.336	-0.336	-0.336	1376.0
				25010.	322.23	147.43	1.790	0.448	1.343	1.343	-0.336	-0.336	-0.783	-0.783	1377.0
				25010.	322.36	147.75	1.343	0.895	1.343	0.895	-0.783	-0.336	-0.783	-0.336	1378.0
				24985.	322.23	147.75	1.790	1.343	1.343	1.343	-0.336	-0.336	-0.783	-1.231	1379.0
355.	00:23	00:00		25010.	322.23	147.43	0.895	0.895	1.343	0.895	-0.336	-0.336	-0.783	-0.336	1380.0
				24985.	322.36	147.43	1.343	1.343	0.895	0.895	-0.336	-0.783	-0.783	-1.231	1381.0
				25010.	322.62	147.43	1.343	0.895	1.343	0.895	-0.783	-0.783	-0.783	-0.336	1382.0
				24985.	322.62	147.43	0.895	0.895	1.343	0.895	-0.336	-0.783	-0.783	0.000	1383.0
356.	00:23	00:00		24984.	322.36	147.43	1.343	0.895	1.343	1.790	-0.783	0.000	0.000	-0.336	1384.0
				24984.	322.23	147.12	1.343	1.343	0.895	1.343	-0.336	0.000	0.000	0.000	1385.0
				25009.	322.23	147.75	0.448	1.343	1.343	0.895	0.000	0.000	0.000	0.000	1386.0
				25009.	322.23	147.43	1.343	0.895	0.448	1.343	0.000	0.000	0.000	0.000	1387.0
357.	00:23	00:00		24984.	322.11	147.43	0.895	1.790	1.343	0.895	0.000	0.000	0.000	0.000	1388.0
				25009.	321.98	147.43	0.448	1.343	1.343	0.895	0.000	0.000	-0.336	0.000	1389.0
				24984.	322.23	147.12	1.343	0.895	1.790	1.343	0.000	0.000	0.000	0.000	1390.0
				25009.	322.11	147.43	0.895	0.895	1.343	1.343	0.000	0.000	0.000	0.000	1391.0
358.	00:23	00:00		25009.	322.11	147.43	1.343	0.448	1.790	1.343	0.000	0.895	0.000	-0.336	1392.0
				24984.	322.11	147.43	0.895	0.000	1.343	1.343	0.000	0.000	0.000	0.000	1393.0
				24984.	321.98	147.43	1.343	0.895	0.895	1.343	0.000	0.000	0.000	0.000	1394.0
				25009.	321.85	147.43	1.343	0.895	0.895	1.343	0.000	0.000	0.000	0.000	1395.0
359.	00:23	00:00		24984.	321.72	147.43	1.343	0.448	1.343	1.343	0.000	0.000	-0.336	0.000	1396.0
				25009.	321.72	147.75	0.895	0.895	0.895	1.790	0.000	0.000	-0.336	0.000	1397.0
				25009.	321.85	147.75	0.895	0.895	0.895	0.448	0.000	0.000	0.000	-0.336	1398.0
				25009.	321.85	147.43	0.895	0.895	0.895	0.448	0.000	0.000	0.000	0.895	1399.0
360.	00:23	00:00		24984.	321.72	147.75	0.895	1.343	0.895	0.895	1.790	2.237	3.576	4.467	1400.0
				25009.	321.72	147.75	1.343	0.895	1.343	1.343	5.799	8.443	6.684	9.317	1401.0
				25009.	321.72	147.43	1.790	0.895	1.790	1.790	11.051	11.051	11.911	13.614	1402.0
				25009.	321.60	147.75	1.343	0.895	1.343	0.895	14.457	15.293	15.293	17.761	1403.0
361.	00:24	00:00		24984.	321.72	147.75	1.790	1.790	1.790	1.790	18.569	19.370	20.163	20.556	1404.0
				25009.	321.72	148.40	1.343	0.895	1.790	0.895	21.337	20.947	22.493	22.874	1405.0
				25009.	321.85	148.72	1.343	1.343	1.790	1.343	22.493	23.253	22.874	23.253	1406.0
				24984.	321.72	150.05	1.343	1.343	0.895	0.895	23.253	23.253	23.253	23.629	1407.0

TRIP DATE

S	FRAME	LAPSE	UCT	ALT	IAS	VERG	VERG	VERG	VERG	VERG,	VERG,	VERG,	VERG,	VERG.	VERG.	VERG.	VERG.
362.	00:24	00:00	25009.	321.72	0.9962	1.0544	1.0836	1.1127	0.9816	1.0399	1.0544	1.1272	0.9962	0.9962	1.0690	1.0836	1.0836
			24959.	321.85	1.0544	1.0544	1.0399	1.1127	1.0836	1.0399	1.0399	1.0690	1.0690	1.1127	1.0544	1.0836	
			25009.	322.23	1.0836	1.0399	1.0399	1.0981	1.0399	1.0544	0.9962	1.0544	1.0544	1.0399	1.0836	1.0836	
			24984.	321.98	1.0544	1.0253	1.0544	1.0253	1.0399	0.9671	0.9962	1.0544	1.0544	0.9962	0.9962	1.0690	
363.	00:24	00:00	24984.	321.98	1.0690	1.0544	0.9962	0.9816	1.0544	1.0399	1.0544	1.0544	1.0253	1.0253	1.0399	1.0399	
			24959.	322.11	0.9962	1.0253	1.0544	1.0544	1.0253	1.0544	1.0253	0.9962	1.0544	1.0544	1.0399	0.9962	
			24959.	322.23	0.9816	1.0253	1.0253	0.9962	0.9816	1.0253	1.0544	0.9671	0.9962	0.9816	0.9816	1.0253	
			24959.	322.36	1.0253	0.9962	0.9671	0.9525	0.9962	1.0399	1.0253	0.9816	0.9525	0.9816	1.0836	1.0253	
364.	00:24	00:00	24959.	322.74	0.9962	0.9816	0.9816	1.0399	0.9816	0.9816	0.9671	0.9962	0.9816	0.9816	1.0399	0.9962	
			24934.	322.62	0.9962	1.0253	0.9816	0.9816	0.9962	0.9816	0.9962	0.9816	1.0253	1.0253	0.9816	0.9816	
			24934.	322.62	1.0253	0.9816	0.9962	1.0399	1.0253	0.9816	0.9962	1.0399	0.9816	0.9816	0.9671	1.0253	
			24934.	322.74	1.0544	1.0399	1.0253	0.9671	0.9962	1.0253	1.0544	1.0544	1.0253	1.0253	1.0399	1.0399	
365.	00:24	00:00	24959.	322.74	1.0399	0.9962	0.9962	1.0399	1.1127	1.0836	1.0544	1.0981	1.1127	1.1272	1.1127	1.1127	
			24934.	322.62	1.1418	1.1127	1.1418	1.1418	1.1127	1.0690	1.0544	1.0690	1.0836	0.9962	0.9816		
			24909.	322.36	0.9816	0.9962	1.0690	1.0399	0.9816	1.0399	1.0399	1.0544	1.0253	1.0544	0.9816	0.9816	
			24934.	322.36	0.9962	1.0399	1.0690	0.9962	1.0544	1.0399	1.0399	1.0253	1.0544	1.0253	1.0399	1.0399	
366.	00:24	00:00	24984.	322.23	1.0544	0.9962	1.0544	1.0544	1.0253	1.0544	1.0399	1.0399	0.9962	0.9816	1.0544	1.1127	
			24984.	321.85	1.0253	0.9816	1.0399	1.0399	0.9962	0.9962	1.0253	1.0836	1.0544	0.9380	0.9525		
			25009.	321.60	0.9671	1.0544	1.0253	1.0253	0.9525	0.9671	0.9671	0.9816	1.0253	0.9671	0.9525		
			25009.	321.34	0.9671	0.9525	0.9671	0.9816	0.9671	0.9671	0.9816	0.9671	0.9816	0.9671	0.9816		
367.	00:24	00:00	25034.	321.21	0.9671	0.9525	0.9671	0.9816	0.9525	0.9671	0.9671	0.9380	0.9671	0.9671	0.9816	0.9234	
			25009.	321.21	0.9380	0.9816	1.0108	0.9816	0.9816	0.9816	0.9816	1.0690	0.9962	1.0399	1.0544	1.0399	
			25009.	320.83	0.9962	1.0253	1.0399	1.0399	0.9525	0.9816	0.9671	1.0253	0.9234	0.9234	0.9234	0.9816	
			25009.	320.70	0.9671	0.9525	0.9088	0.9088	0.9380	0.9816	0.9525	0.9525	0.9816	0.9671	1.0399	1.0253	
368.	00:24	00:00	25034.	320.44	1.0253	1.0253	0.9962	1.0544	1.0690	1.0399	1.0399	1.0253	1.0399	1.0253	0.9671	0.9962	
			25009.	320.19	0.9816	1.0544	1.0253	1.0253	0.9816	1.0253	1.0253	0.9816	1.0544	1.0253	0.9816	0.9816	
			25009.	320.19	0.9671	1.0544	0.9962	0.9962	1.0253	1.0399	0.9816	0.9816	0.9962	1.0399	1.0253	0.9671	
			25034.	320.19	0.9816	1.0253	1.0399	1.0399	0.9816	1.0108	1.0108	1.0544	1.0399	0.9962	0.9816	1.0253	
369.	00:24	00:00	25034.	320.57	1.0399	0.9962	1.0253	0.9816	0.9962	0.9962	1.0544	0.9671	0.9962	1.0253	0.9816	0.9962	
			25034.	320.83	0.9671	1.0253	0.9962	1.0253	0.9816	1.0399	1.0544	0.9816	0.9816	0.9816	1.0544	1.0399	
			25034.	321.21	1.0253	0.9962	0.9816	0.9962	1.0253	0.9816	0.9962	1.0544	1.0253	1.0253	0.9816	0.9816	
			25009.	321.85	1.0399	1.0253	0.9962	0.9962	0.9962	1.0253	1.0399	0.9962	1.0253	1.0399	0.9962	0.9816	
370.	00:24	00:00	25009.	322.49	0.9525	0.9816	1.0399	1.0253	0.9962	0.9962	0.9816	1.0399	1.0399	1.0399	1.0253	1.0253	
			24959.	323.12	1.0544	1.0253	1.0399	1.0544	0.9816	1.0544	1.0836	1.0690	1.0399	0.9962	1.0253	1.0690	
			24934.	323.89	1.1127	1.0690	0.9816	0.9962	1.0399	1.0253	0.9962	1.0253	1.0253	1.0399	0.9962	1.0253	
			24934.	324.90	1.0544	1.0399	0.9816	0.9962	0.9962	0.9816	1.0399	0.9962	0.9962	0.9962	1.1127	1.1127	
371.	00:24	00:00	24834.	325.53	1.0690	1.0544	1.0836	1.0690	1.0836	1.0544	1.0544	1.0544	1.0836	1.0836	1.0253	1.0544	
			24809.	326.41	1.0544	1.0399	0.9962	0.9962	0.9962	1.0253	0.9962	0.9671	0.9816	0.9671	1.0253	0.9962	
			24735.	327.16	1.0108	0.9962	1.0544	0.9962	1.0836	1.0544	1.0253	1.0690	1.0399	1.0399	1.0836	1.0836	
			24686.	328.16	1.0690	1.0399	1.0399	1.0253	1.0836	1.1127	1.1127	1.1564	1.1709	1.2292	1.1709		
372.	00:24	00:00	24612.	329.16	1.1418	1.2000	1.2000	1.2146	1.2874	1.2728	1.2728	1.3456	1.3165	1.2874	1.2874	1.3602	
			24612.	330.27	1.3020	1.3748	1.2583	1.3311	1.2874	1.3893	1.3311	1.4476	1.5058	1.4621	1.5640	1.4621	
			24563.	330.65	1.5349	1.5058	1.4184	1.4184	1.3456	1.3456	1.3311	1.4039	1.3893	1.2874	1.3456	1.3602	
			24489.	330.77	1.3165	1.3893	1.2583	1.3020	1.3602	1.4184	1.3165	1.2437	1.4621	1.4621	1.4330	1.3602	
373.	00:24	00:00	24465.	330.40	1.4039	1.3748	1.3893	1.3748	1.3311	1.3456	1.3893	1.2146	1.2874	1.2292	1.2583	1.2437	
			24440.	330.52	1.1564	1.2146	1.2728	1.2437	1.2728	1.2292	1.1709	1.2292	1.2292	1.2583	1.2583	1.2874	
			24416.	330.15	1.2874	1.3165	1.2583	1.3020	1.1418	1.2146	1.1564	1.2000	1.2292	1.2292	1.1272	1.1418	
			24440.	329.28	1.1127	1.1272	1.1418	1.0399	1.0399	1.0836	1.0690	1.1127	1.0690	1.1418	1.1127	1.1564	
374.	00:24	00:00	24440.	328.91	1.1418	1.1709	1.0836	1.0399	1.0253	1.0253	1.0399	0.9962	0.9816	0.9671	0.9525	0.9816	
			24489.	328.04	1.0253	0.9380	0.9525	0.9234	1.0544	1.0544	1.0544	1.0253	0.9962	1.0253	0.9671	0.9525	
			24489.	327.29	0.9380	0.9380	0.9234	0.9380	0.8652	0.8360	0.8797	0.9234	0.8943	0.9525	0.9962	1.0544	
			24489.	327.66	0.9962	0.9816	0.9671	0.9816	1.0544	0.9671	0.9816	1.0690	1.0836	1.1418	1.1272	1.1709	
375.	00:24	00:00	24465.	327.91	1.2000	1.2437	1.2000	1.3020	1.5204	1.4621	1.4184	1.4039	1.4912	1.3456	1.2437	1.2874	
			24440.	327.91	1.2437	1.0836	1.1272	1.1272	1.0544	1.0836	1.1127	1.2292	1.2874	1.3165	1.4184	1.3456	
			24367.	329.03	1.3456	1.3748	1.3748	1.3456	1.3165	1.3456	1.3456	1.3020	1.1709	1.2583	1.1564	1.1564	
			24319.	329.65	1.1418	1.1709	1.2146	1.2146	1.1272	1.1127	1.1564	1.1564	1.2437	1.2146	1.2146	1.1272	
376.	00:25	00:00	24246.	332.13	1.1855	1.3311	1.3020	1.4476	1.4621	1.4621	1.6223	1.5786	1.4476	1.4621	1.3602	1.4184	
			24101.	334.58	1.2874	1.2000	1.2874	1.2146	1.2000	1.2437	1.2292	1.3020	1.3456	1.3020	1.2728	1.4621	
			23910.	337.97	1.3456	1.3456	1.4330	1.4039	1.2874	1.3602	1.3602	1.4039	1.4767	1.4767	1.5204	1.4767	
			23720.	343.00	1.5495	1.4912	1.4039	1.5058	1.4621	1.4621	1.5349	1.4039	1.3602	1.3602	1.2583	1.2583	

TRIP DATE

S	FRAME	LAPSE	UCT	ALT	IAS	VERG	VERG	VERG	VERG	VERG,	VERG,	VERG,	VERG,	VERG.	VERG.	VERG.	VERG.
•	347.	00:23	:	25010.	321.21	0.9962	0.9525	0.9525	0.9671	0.9816	0.9671	0.9816	1.0544	0.9962	0.9816	0.9671	0.9525
•				-10703.	0.00	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364
•				-10703.	0.00	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364	8.4364
	348.	00:23	00:00	25010.	321.21	0.9816	0.9962	0.9525	0.9380	0.9816	1.0399	1.0253	1.0253	0.9380	0.9380	0.9671	0.9962
				25010.	321.34	0.9816	0.9525	0.9962	0.9671	0.9671	0.9671	0.9816	0.9816	0.9816	0.9962	0.9671	1.0253
				25010.	321.47	0.9525	1.0399	0.9962	0.9671	0.9671	0.9525	0.9525	1.0253	0.9671	0.9816	0.9816	0.9816
				25010.	321.60	0.9816	0.9962	0.9962	0.9962	0.9234	0.9671	0.9525	1.0108	0.9816	0.9525	0.9525	1.0544
				25010.	321.60	0.9962	0.9380	0.9671	0.9671	0.9816	0.9962	0.9816	0.9816	0.9380	0.9816	0.9671	1.0253
	349.	00:23	00:00	25010.	321.72	0.9962	0.9671	0.9234	0.9380	0.9525	0.9816	0.9816	1.0253	0.9816	0.9671	0.9816	0.9962
				25010.	321.60	0.9525	0.9816	0.9962	0.9962	0.9816	0.9671	0.9816	0.9816	0.9525	0.9671	0.9525	0.9671
				25010.	321.60	0.9816	0.9671	0.9816	0.9671	0.9380	0.9816	0.9816	0.9816	0.9816	0.9671	0.9816	0.9671
				25010.	321.72	0.9816	0.9671	0.9525	0.9234	0.9962	1.0253	0.9816	0.9380	0.9671	0.9962	0.9671	0.9525
	350.	00:23	00:00	25010.	321.72	0.9671	0.9962	0.9816	0.9380	0.9816	0.9671	0.9234	0.9380	0.9962	0.9671	0.9816	0.9525
				25010.	321.72	0.9962	0.9525	0.9962	0.9962	0.9525	0.9671	0.9671	0.9816	0.9816	0.9671	0.9380	0.9816
				25010.	321.72	0.9816	0.9671	0.9816	0.9671	0.9816	0.9962	0.9816	0.9816	0.9525	0.9671	0.9525	0.9816
				25010.	321.72	0.9525	1.0108	0.9962	0.9671	0.9525	0.9816	1.0253	0.9671	0.9816	0.9380	0.9671	0.9671
	351.	00:23	00:00	25010.	321.72	0.9671	1.0253	0.9962	0.9816	0.9816	0.9525	0.9671	1.0253	1.0253	0.9380	0.9671	0.9816
				25010.	321.72	1.0253	0.9671	0.9525	0.9525	0.9816	0.9816	0.9962	0.9816	0.9816	1.0253	0.9816	0.9816
				25010.	321.72	0.9671	0.9525	0.9962	0.9816	0.9525	0.9671	0.9816	0.9234	0.9671	0.9816	1.0399	0.9816
				25010.	321.72	0.9816	0.9671	0.9962	1.0253	0.9962	0.9234	0.9525	0.9816	0.9525	0.9816	1.0399	0.9816
	352.	00:23	00:00	25010.	321.72	0.9671	0.9525	0.9816	0.9962	0.9671	0.9816	0.9525	0.9816	0.9671	0.9962	0.9816	0.9525
				25010.	321.72	0.9380	0.9671	0.9525	0.9816	0.9380	0.9962	0.9671	1.0399	0.9962	0.9816	0.9525	0.9816
				25010.	321.72	0.9962	0.9671	0.9671	0.9525	0.9816	0.9671	0.9525	0.9671	0.9962	0.9816	0.9234	0.9671
				25010.	321.85	0.9962	1.0253	0.9816	0.9816	0.9671	0.9525	1.0253	0.9671	0.9525	0.9671	0.9525	0.9380
	353.	00:23	00:00	25010.	321.98	0.9816	1.0253	0.9671	0.9525	0.9525	0.9671	0.9962	0.9816	0.9380	0.9525	0.9671	1.0253
				25010.	322.11	0.9962	0.9671	0.9671	0.9962	1.0108	1.0253	0.9525	0.9816	0.9671	0.9525	1.0253	0.9525
				25010.	322.23	1.0253	0.9525	0.9816	0.9671	1.0399	1.0108	0.9962	0.9962	0.9525	0.9525	0.9962	0.9962
				25010.	322.23	0.9671	0.9816	0.9671	0.9671	0.9816	0.9962	0.9671	0.9962	1.0253	0.9962	0.9962	0.9816
	354.	00:23	00:00	24985.	322.23	0.9671	0.9816	0.9962	0.9962	0.9671	0.9816	0.9816	0.9380	0.9525	0.9671	0.9816	0.9525
				25010.	322.23	0.9671	1.0253	0.9816	0.9816	0.9525	1.0108	0.9671	0.9816	0.9816	0.9671	0.9525	0.9671
				25010.	322.36	0.9962	1.0690	0.9234	0.9525	0.9962	1.0108	0.9671	0.9962	0.9816	0.9671	0.9962	0.9816
				24985.	322.23	0.9380	0.9525	0.9671	0.9525	0.9816	0.9380	0.9816	0.9671	0.9962	0.9816	1.0253	0.9962
	355.	00:23	00:00	25010.	322.23	0.9671	0.9816	0.9816	0.9671	0.9962	0.9962	0.9525	0.9671	0.9816	0.9671	0.9816	0.9525
				24985.	322.36	0.9671	1.0253	0.9962	0.9816	0.9962	0.9816	0.9671	0.9962	0.9671	0.9671	1.0544	0.9671
				25010.	322.62	1.0399	0.9671	0.8943	0.9234	0.9671	0.9962	1.0253	0.9816	0.9380	0.9525	0.9962	0.9671
				24985.	322.62	0.9816	0.9816	0.9816	0.9962	0.9380	1.0253	0.9671	1.0253	0.9380	0.9671	0.9962	0.9962
	356.	00:23	00:00	24984.	322.36	0.9525	0.9816	0.9816	0.9671	0.9525	0.9962	0.9671	0.9671	0.9525	0.9816	0.9816	0.9671
				24984.	322.23	0.9816	0.9525	0.9816	0.9816	0.9816	0.9816	0.9380	0.9525	1.0253	1.0399	0.9671	0.9816
				25009.	322.23	0.9671	0.9816	0.9962	1.0108	0.9525	0.9671	0.9671	0.9671	0.9816	0.9816	0.9525	0.9525
				25009.	322.23	0.9525	0.9962	0.9816	0.9816	0.9525	0.9962	0.9816	0.9671	0.9962	1.0253	0.9816	0.9671
	357.	00:23	00:00	24984.	322.11	0.9671	0.9816	1.0108	1.0253	0.9525	0.9671	0.9671	0.9962	0.9816	0.9816	0.8943	0.9962
				25009.	321.98	0.9962	0.9671	0.9525	0.9671	0.9816	0.9671	0.9816	0.9816	0.9816	0.9816	0.9671	0.9816
				24984.	322.23	0.9816	0.9816	0.9962	0.9671	0.9380	0.9816	1.0108	0.9816	1.0253	1.0253	0.9380	0.9671
				25009.	322.11	0.9816	0.9816	0.9671	0.9234	0.9816	1.0253	0.9816	0.9671	0.9525	0.9525	0.9962	0.9816
	358.	00:23	00:00	25009.	322.11	1.0253	0.9234	0.9671	0.9525	0.9816	1.0108	0.9671	0.9380	0.9671	0.9962	0.9962	0.9671
				24984.	322.11	0.9671	0.9816	0.9962	0.9962	0.9525	0.9816	0.9816	0.9962	0.9816	0.9816	0.9380	0.9525
				24984.	321.98	0.9671	0.9816	0.9525	0.9816	0.9525	0.9962	0.9671	0.9962	1.0253	1.0253	0.9525	0.9671
				25009.	321.85	0.9671	0.9671	0.9816	0.9962	0.9816	0.9380	0.9671	0.9962	1.0253	0.9671	0.9671	0.9816
	359.	00:23	00:00	24984.	321.72	0.9962	0.9816	0.9671	0.9816	0.9234	1.0108	1.0253	0.9816	0.9671	0.9671	0.9816	0.9816
				25009.	321.72	0.9671	0.9816	0.9671	0.9816	0.9671	0.9962	0.9671	0.9816	0.9671	0.9816	0.9525	0.9962
				25009.	321.85	0.9962	0.9671	0.9671	0.9671	0.9671	1.0544	0.9962	0.9671	0.9088	0.9525	1.0253	1.0253
				25009.	321.85	0.9962	0.9671	0.9816	0.9671	0.9962	0.9671	0.9380	0.9816	0.9671	0.9671	0.9671	0.9671
	360.	00:23	00:00	24984.	321.72	0.9525	0.9962	1.0253	0.9816	0.9380	0.9671	0.9525	1.0399	0.9671	0.9816	0.9816	0.9962
				25009.	321.72	1.0253	0.9816	0.9671	0.9671	0.9816	1.0253	0.9962	0.9525	1.0544	0.9962	0.9816	1.0544
				25009.	321.72	1.0253	0.9816	0.9525	0.9816	1.0399	0.9671	0.9816	0.9962	0.9816	0.9816	1.0108	1.0108
				25009.	321.60	0.9962	0.9816	0.9816	0.9962	0.9816	0.9962	1.0399	1.0399	0.9816	0.9816	1.0253	1.0253
	361.	00:24	00:00	24984.	321.72	1.0399	1.0253	1.0253	1.0690	0.9962	1.0253	0.9962	1.0544	1.0836	1.0690	0.9962	1.0253
				25009.	321.72	1.0399	1.0544	0.9962	1.0253	1.0544	1.0544	1.0544	1.0690	1.0836	1.0690	1.0836	0.9962
				25009.	321.85	0.9962	1.0690	1.0544	1.0399	1.0836	1.0690	1.0544	1.0253	1.0253	1.0544	1.0690	1.0690
				24984.	321.72	1.0544	1.0253	1.0836	1.1127	1.1127	1.0253	1.0544	1.0690	1.0544	1.0690	1.0690	1.0399

TRIP DATE

S	FRAME	LAPSE	UCT	ALT	IAS	HEAD	EPR 1	EPR 1	EPR 2	EPR 2	FLAP	FLAP	FRMLSB	
	377.	00:25	00:00	23485.	349.22	86.54	1.2467	1.2425	1.1532	1.1553	0.000	0.000	1468.0	
				23182.	358.26	83.43	1.2340	1.2382	1.1447	1.1340	0.000	0.000	1469.0	
				22839.	363.73	72.75	1.2276	1.2276	1.1000	1.1043	0.000	0.000	1470.0	
				22389.	368.90	52.07	1.2212	1.2148	1.0851	1.0724	0.000	0.000	1471.0	
	378.	00:25	00:00	21958.	376.12	38.00	1.1787	1.1595	1.0362	1.0383	0.000	0.000	1472.0	
				21443.	386.71	22.11	1.0447	1.0149	1.0447	1.0362	0.000	0.000	1473.0	
				20849.	394.77	11.91	1.0149	1.0192	1.0447	1.0426	0.000	0.000	1474.0	
				20225.	402.54	8.00	1.0171	1.0128	1.0383	1.0383	0.000	0.000	1475.0	
	379.	00:25	00:00	19530.	413.22	6.68	1.0149	1.0128	1.0362	1.0383	0.000	0.000	1476.0	
				18835.	424.70	5.36	1.0128	1.0107	1.0341	1.0320	0.000	0.000	1477.0	
				18017.	435.56	4.02	1.0128	1.0128	1.0405	1.0341	0.000	0.000	1478.0	
				17187.	445.86	2.68	1.0107	1.0149	1.0362	1.0277	0.000	0.000	1479.0	
	380.	00:25	00:00	16328.	453.66	0.45	1.0192	1.0171	1.0320	1.0341	0.000	0.000	1480.0	
				15462.	464.51	0.00	1.0171	1.0171	1.0298	1.0320	0.000	0.000	1481.0	
				14573.	473.75	359.66	1.0107	1.0149	1.0320	1.0298	0.000	0.000	1482.0	
				13665.	483.45	358.77	1.0001	1.0149	1.0341	1.0298	0.000	0.000	1483.0	
	381.	00:25	00:00	12758.	486.38	358.32	1.0171	1.0171	1.0234	1.0320	0.000	0.000	1484.0	
				11781.	486.38	357.43	1.0086	1.0107	1.0277	1.0298	0.000	0.000	1485.0	
				10849.	486.45	356.54	1.0128	1.0128	1.0277	1.0256	0.000	0.000	1486.0	
				9965.	486.45	356.54	1.0107	0.8321	1.0277	0.8321	0.000	0.000	1487.0	
	*			-10703.	0.00	0.00	0.8321	0.8321	0.8321	0.8321	0.000	0.000	0.0	
	*	382.	00:25	:	-10703.	0.00	0.00	0.8321	0.8321	0.8321	0.8321	0.000	0.000	0.0
	*				-10703.	0.00	0.00	0.8321	0.8321	0.8321	0.8321	0.000	0.000	0.0
	*				-10703.	0.00	0.00	0.8321	0.8321	0.8321	0.8321	0.000	0.000	0.0
	*				-10703.	427.47	32.96	1.9145	0.8326	0.8321	0.8321	0.000	0.000	0.0
	*	383.	00:25	:	-10703.	0.00	0.00	0.8321	0.8321	0.8321	0.8321	0.000	0.000	0.0
	*				-10703.	0.00	0.00	0.8321	0.8321	0.8321	0.8321	0.000	0.000	0.0
	*				-10703.	0.00	0.00	0.8321	0.8321	0.8321	0.8321	0.000	0.000	0.0
	*				28906.	289.14	51.24	1.8230	1.8252	1.8209	0.8900	0.000	0.000	1778.0
	*				28936.	289.29	51.24	1.8252	1.8230	1.8294	1.8145	0.000	0.000	1781.0
	*	384.	00:25	01:	-10703.	0.00	0.00	0.8321	0.8321	0.8321	0.8321	0.000	0.000	0.0
	*				-10703.	0.00	0.00	0.8321	0.8321	0.8321	0.8321	0.000	0.000	0.0
	*				28906.	288.98	51.24	1.8252	1.8252	1.8060	1.8018	0.000	0.000	1782.0
	*				28936.	288.98	51.24	1.8252	1.8252	1.7954	1.7911	0.000	0.000	1783.0
	*	385.	00:25	01:01	28976.	288.98	51.52	1.8252	1.8273	1.8273	1.8082	0.000	0.000	1784.0
	*				28946.	288.98	51.52	1.8273	1.8273	1.8252	1.8252	0.000	0.000	1785.0
	*				28916.	288.98	51.52	1.8252	1.8230	1.8337	1.8316	0.000	0.000	1786.0
	*				28946.	288.98	51.52	1.8252	1.8294	1.8379	1.8358	0.000	0.000	1787.0
	*	386.	00:25	01:01	28947.	288.98	51.52	1.8252	1.8273	1.8188	1.8124	0.000	0.000	1788.0
	*				28917.	288.98	51.24	1.8252	1.8252	1.8018	1.7997	0.000	0.000	1789.0
	*				28947.	288.98	51.79	1.8230	1.8273	1.7954	1.7933	0.000	0.000	1790.0
	*				28947.	288.98	51.52	1.8273	1.8252	1.8167	1.8209	0.000	0.000	1791.0
	*	387.	00:25	01:01	28947.	288.98	51.52	1.8252	1.8273	1.8252	1.8294	0.000	0.000	1792.0
	*				28917.	288.98	51.52	1.8252	1.8273	1.8358	1.8337	0.000	0.000	1793.0
	*				28976.	288.98	51.79	1.8273	1.8252	1.8358	1.8294	0.000	0.000	1794.0
	*				28947.	288.98	51.52	1.8294	1.8230	1.8060	1.8060	0.000	0.000	1795.0
	*	388.	00:25	01:01	28917.	288.98	51.79	1.8273	1.8273	1.7954	1.7933	0.000	0.000	1796.0
	*				28947.	288.98	51.79	1.8252	1.8294	1.7954	1.8039	0.000	0.000	1797.0
	*				28917.	288.98	51.52	1.8273	1.8252	1.8188	1.8209	0.000	0.000	1798.0
	*				28947.	289.14	51.52	1.8294	1.8230	1.8294	1.8337	0.000	0.000	1799.0
	*	389.	00:25	01:01	28947.	289.14	52.07	1.8252	1.8209	1.8379	1.8337	0.000	0.000	1800.0
	*				28976.	289.59	51.52	1.8273	1.8401	1.8252	1.8252	0.000	0.000	1801.0
	*				28917.	289.59	51.79	1.8273	1.8273	1.8060	1.8060	0.000	0.000	1802.0
	*				28947.	289.59	51.79	1.8252	1.8273	1.7975	1.7911	0.000	0.000	1803.0
	*	390.	00:25	:01	28947.	289.44	51.79	1.8230	1.8273	1.8060	1.8082	0.000	0.000	1804.0
	*				28917.	289.44	51.79	1.8273	1.8252	1.8252	1.8252	0.000	0.000	1805.0
	*				28917.	289.59	51.79	1.8273	0.8321	3.0076	0.9639	0.000	0.000	1806.0
	*				28947.	289.44	51.79	1.8273	1.8252	1.8018	1.7997	0.000	0.000	1809.0
	*	391.	00:26	01:	-10699.	0.00	0.00	0.8321	0.8321	0.8321	0.8321	0.000	0.000	0.0
	*				-10699.	0.00	0.00	0.8321	0.8321	0.8321	0.8321	0.000	0.000	0.0
	*				28947.	288.98	51.52	1.8294	1.8294	1.7933	1.7933	0.000	0.000	1810.0
	*				28947.	288.98	51.79	1.8273	1.8294	1.8167	1.8167	0.000	0.000	1811.0

END END