TESLA

EDR Report

File Information	Value
VIN	5YJXCDE20HF041782
Retrieval Date	2017/06/30 02:16:00 (UTC)
Retrieval User Comments	
Retrieval Program Information	
EDR Report Information	Tesla EDR Reporting Service v17.40.1
Report Requested By	
Report Date	2017/10/19 00:36:46 (UTC)
Number Of Events	1
Time From Event 1 To 2 (seconds)	N/A
Ignition Cycle At Retrieval	275

Model X Data Limitations

General Data Limitations

This report represents data from a Tesla Event Data Recorder (EDR). The report was generated using EDR data that was uploaded to the Tesla EDR Report Service at https://edr.tesla.com. This service is periodically updated using the most current vehicle information available and report users should always ensure that the report was generated by the most recent version of the Report Service.

The Tesla EDR Retrieval Program and Tesla EDR Report Service are designed for vehicles configured for the North American market region only. Report elements found in this report may not have not been validated for vehicles configured for regions outside of North America.

The EDR is part of the vehicle's Restraints Control Module (RCM). When the EDR senses a crash or crash-like event, it may record a short period of data related to vehicle dynamics and safety systems. This recorded data may assist in understanding the crash or crash-like event. EDR data will only be recorded by a Tesla vehicle if the EDR senses a crash or crash-like event; no data is recorded by the EDR under normal driving conditions.

EDR data should only be used as part of a thorough and competent review of the human, vehicle, and environmental information associated with an event. The data recorded by the EDR has limitations including the number of items recorded, the time period of the recording, the data sampling interval, and the data range and resolution. Additionally, EDR data may be limited by sensor capabilities or the availability of 12 V DC power at the RCM. For these and other potential reasons, the EDR data may not capture an entire event, and the data elements captured may not fully represent all aspects of a given event.

Tesla has made all reasonable efforts to include sufficient information in this report's Data Limitations section to clarify terminology and data elements found in this document to assist the end user in understanding the recorded data. Tesla reserves the right to update, change or modify this information.

Event Data Recorder
> An Event Data Recorder is defined as a device or function in a vehicle that records the vehicle's dynamic time-series data during the time period just prior to a crash event (e.g., vehicle speed vs. time) or during a crash event (e.g., delta–V vs. time), intended for retrieval after the crash event. For the purposes of this definition, the event data do not include audio and video data (49 CFR Part 563).

Data Synchronization
> Pre-crash and crash data is recorded in discrete intervals and may be asynchronous.

Events
> The Model X RCM can store up to two events: Event 1 and Event 2. The conditions for triggering the recording of an event differs depending on event type.

Time Zero
> Time Zero, as indicated throughout the event record, is the point where the restraint control algorithm is activated in any sensing direction.

Recording duration
> The end of an event is typically the moment at which the cumulative delta-V within a 20ms time period does not change by more than 0.8 km/h or the moment at which the crash detection algorithm of the RCM resets. Some events may lead to the recording of different duration data as provided for by 49 CFR Part 563.

Deployment events
> A deployment event may be recorded when the RCM commands the deployment of a device (e.g. airbag, pretensioner, or High Voltage (HV) battery disconnect). Deployment events are always locked in memory and are never overwritten.

Non-deployment events
> A non-deployment event may be recorded when the RCM senses a physical occurrence triggering the recording of an event but does not command the deployment of a device (e.g. airbag, pretensioner, High Voltage (HV) battery disconnect). A non-deployment event is recorded if one of the two event memory locations is available (not locked). Non-deployment events are not locked in memory. A non-deployment event is overwritten by another non-deployment event or a deployment event.

Data polarity
> Where applicable, the data in this report follows the polarity conventions found in SAE J1733 and J211. For example, forward longitudinal acceleration and resultant delta-V are positive and left-to-right lateral acceleration and resultant delta-V are positive. Positive roll angle is rotation about the vehicle's longitudinal axis using the right hand rule (clockwise vehicle roll when viewed from the rear of the vehicle). Positive steering wheel angle is clockwise rotation of the steering wheel (steering to the right from straight).

Data Element Definitions

Number Of Events
> The Number Of Events represents the total number of events that are stored in the RCM memory. The maximum number of events that can be recorded is two.

Time From Event 1 to 2 (seconds)
> The Time From Event 1 to 2 is the amount of time elapsed between the Time Zero of two linked events (if applicable). Linked events must occur within 5 seconds and in the same ignition cycle. Non-linked events will report "N/A" in the Time From Event 1 to 2 value.

Vehicle Identification Number (VIN)

The Vehicle Identification Number (VIN) is stored in the RCM when it is installed at the Tesla Fremont Factory or by Tesla Service. The last 6 digits of the VIN can be anonymized by selecting the "Save without VIN sequence number" option in the Tesla EDR Retrieval Program.

Retrieval Date

The Retrieval Date is the calendar date and time when the data was retrieved from the RCM. This date and time is sourced from the computer that was used to retrieve the data. This is not the date and time of an event.

Retrieval User Comments

The Retrieval User Comments is an open field that can be used by the Tesla EDR Retrieval operator to record text comments at the time of retrieval.

Retrieval Program Information

The Retrieval Program Information is the version number of the Tesla EDR Retrieval Program that was used to retrieve the EDR data from the RCM.

EDR Report Information

The EDR Report Information identifies the version or revision number of the Tesla EDR Report Service.

Report Requested By

Report Requested By is the name of the "My Tesla" user that generated the report using the Tesla EDR Report Service.

Report Date

The EDR Report Information identifies the version or revision number of the Tesla EDR Report Service. The source of this data element is the Tesla server.

Ignition Cycle At Retrieval

The Ignition Cycle At Retrieval is the number of times that the RCM had been powered on as reported at the time that the Tesla EDR Retrieval Program was used to retrieve the data from the RCM. The maximum value for ignition cycles is over 4 billion.

Maximum Delta-V, Longitudinal/Lateral (km/h)

The Maximum Delta-V, Longitudinal/Lateral is the maximum magnitude of the recorded delta-V during the event. The value is reported to the nearest kilometer per hour. The range for Maximum Delta-V is -100 km/h to +100 km/h. The source of the data is the internal calculation (integration) of the sensor data inside of the RCM.

Time to Maximum Delta-V, Longitudinal/Lateral (ms)

The Time to Maximum Delta-V, Longitudinal/Lateral is the time from Time Zero to the maximum magnitude of the recorded delta-V during the event. The maximum value is 300 ms and the value is reported to the nearest millisecond.

Time to Maximum Delta-V, Resultant (ms)

The Time to Maximum Delta-V, Resultant is the time from Time Zero to the calculated maximum resultant of the longitudinal and lateral delta-V components. The maximum value is 300 ms and the value is reported to the nearest millisecond.

Ignition Cycle At Event

The Ignition Cycle At Event is the number of times that the RCM had been powered on as reported at Time Zero. The maximum value for ignition cycles is over 4 billion.

Ignition Cycle Runtime

Ignition Cycle Runtime is the total cumulated time from when the RCM was powered on to Time Zero for a given event. The maximum value of Ignition Cycle Runtime is over 70 million minutes and the resolution is 0.1 minutes.

Odometer At Event Time Zero

Odometer At Event Time Zero is the value of the vehicle's lifetime mileage accumulation at Time Zero. The maximum value for this data element is over 1 million kilometers and the resolution is 0.1 kilometers.

Airbag Warning Lamp Status

Airbag Warning Lamp Status indicates the commanded state of the warning lamp as "on" or "off" within approximately the last second before Time Zero.

Vehicle Drive Mode

Vehicle Drive Mode is the status of the vehicle's powertrain setting within approximately the last second before Time Zero . Possible options for this data element include Park, Reverse, Neutral and Drive.

Driver/Passenger Safety Belt Status

The Driver/Passenger Safety Belt Status is the recorded status of the safety belt at the time of the event. This data element is recorded one second before Time Zero.

Occupant Classification In Front Passenger Seat

The Occupant Classification data element indicates the detected occupant type in the front passenger seat. Values include: Empty, Child, Small Adult, Large Adult.

Driver Seat Position

Driver Seat Position indicates the recorded seat track position of the driver seat. The possible values are Rearward and Forward.

Rear occupant seat status

The Model X may record data associated with the second and third row seat occupancy and seat belt status. The possible values for occupancy status include: Not Occupied or Occupied, or Not Available. The possible values for rear occupant seat belt status are Buckled, Not Buckled, or Not Available.

Driver Airbag Deployment 2nd Stage Disposal

This data element indicates if the driver airbag second stage was commanded to deploy (either for occupant restraint or propellant disposal purposes).

Right Front Passenger Airbag Deployment 2nd Stage Disposal

This data element indicates if the passenger airbag second stage was commanded to deploy (either for occupant restraint or propellant disposal purposes).

Complete File Recorded

Complete File Recorded indicates whether or not the complete data set available to the EDR was successfully recorded.

Deployment Summary

The Deployment Summary table indicates which of the deployable safety devices (if any) were commanded to deploy and at what time (relative to the event Time Zero). The possible values for the status of each device is "Deployment Commanded" or "Deployment Not Commanded". The deployment commanded time is to the nearest millisecond.

Time Series Data

All time references are based on the event definition of Time Zero.

Vehicle Speed

Vehicle Speed is calculated and reported by the average of the four wheel speed signals. The minimum value for vehicle speed is 0 km/h and the maximum value greater than 200 km/h. The resolution of Vehicle Speed is to the nearest kilometer per hour.

Accelerator Pedal (%)

Accelerator Pedal (%) is the percent of full application of the accelerator pedal. The resolution of Accelerator Pedal (%) is to the nearest percent.

Rear Motor Speed (rpm)

Rear Motor Speed is the rate of rotation of the rear drive motor. The maximum value for Rear Motor Speed is 17,000 rpm (revolutions per minute). The resolution of Rear Motor Speed is to the nearest 1 rpm.

Service Brake

Service Brake indicates the status of the driver's application of the brake pedal as reported by the brake booster. The possible values for Service Brake are "On" (pedal being applied by driver) and "Off" (pedal not being applied by driver).

Stability Control

Stability Control is the status of the Electronic Stability Control system (ESC). The possible values are "On" (meaning the ESC was enabled but not active), "Off" (meaning the ESC was turned off), and "Engaged" (meaning that the ESC was active).

ABS Activity

ABS Activity is the status of the Anti-lock Braking System (ABS). The possible values are "On" (meaning the ABS was active) and "Off" (meaning the ABS was not active). Active ABS status does not necessarily indicate that the ABS control unit was actively modulating braking at one or more wheels.

Steering Wheel Angle (deg)

Steering Wheel Angle represents the measured rotational angle of the steering wheel. The range of Steering Wheel Angle data is -819 deg to +819 deg. The resolution of steering wheel angle is to the nearest 0.1 degree. Data is recorded for 5 seconds prior to Time Zero every 0.1 seconds.

Lateral/Longitudinal Pre-Crash Acceleration

Lateral and Longitudinal Pre-Crash Acceleration data is the measured physical acceleration of the vehicle as measured at the RCM during the 5 seconds prior to (and including) Time Zero.

Roll/Yaw Rate Pre-Crash Data

Roll and Yaw Rate Pre-Crash data is the measured angular velocity of the RCM for the 5 seconds prior to (and including) Time Zero. The resolution of this data element is to the nearest 0.1 degrees/second and the samples are recorded every 0.1 seconds.

Longitudinal/Lateral Delta-V data

Longitudinal and Lateral Time Series Delta-V Data indicates the change in velocity of the vehicle. The source of the data is the internal calculation (integration) of the sensor data inside of the RCM. The resolution of Delta-V data is to the nearest kilometer per hour and the data is reported every 10 ms after Time Zero (until the end of the event). The range for delta-V data is -100 km/h to +100 km/h.

Longitudinal/Lateral/Normal Time Series Acceleration data

Longitudinal and Lateral Time Series Acceleration Data indicates the measured physical acceleration of the vehicle. The source of the data is the accelerometers located inside the RCM. The resolution of acceleration data is 0.8 g and the data is reported every 0.5 ms after Time Zero (until the end of the event). The range of acceleration data is -96 g to +96 g.

Serial Numbers

Serial numbers are the sensor identification numbers that are stored in the RCM. These values are stored when the RCM is powered up (each ignition cycle).

Hexadecimal Data

The Hexadecimal Data found in this report represents the original, raw data and identifying information retrieved from the RCM accessed to ultimately generate this report. The binary data is represented in hexadecimal format as a matter of convenience. While it represents all the raw data retrieved from the subject RCM not all of that raw data may be used in a given report or application.

Event 1 Data Record

Data Element	Value
Maximum Delta-V, Longitudinal (km/h)	-61
Time To Maximum Delta-V, Longitudinal (ms)	95.0
Maximum Delta-V, Lateral (km/h)	-1
Time To Maximum Delta-V, Lateral (ms)	72.5
Time To Maximum Delta-V, Resultant (ms)	95.0
Ignition Cycle At Event	271
Ignition Cycle Runtime (minutes)	10.3
Odometer At Event Time Zero (km)	30.5
Airbag Warning Lamp Status	Off
ABS Warning Indicator Status	Off
Vehicle Drive Mode	Neutral
Driver Safety Belt Status	Buckled
Passenger Safety Belt Status	Buckled
Occupant Classification Status In Front Passenger Seat	Small Adult
Driver Seat Track Position	Rearward
2nd Row Left Safety Belt Status	Buckled
2nd Row Left Seat Occupant	Not Occupied
2nd Row Center Safety Belt Status	Not Buckled
2nd Row Center Seat Occupant	Not Occupied
2nd Row Right Safety Belt Status	Buckled
2nd Row Right Seat Occupant	Not Occupied
3rd Row Left Safety Belt Status	Not Available
3rd Row Left Seat Occupant	Not Available
3rd Row Right Safety Belt Status	Not Available
3rd Row Right Seat Occupant	Not Available
Driver Airbag Deployment 2nd Stage Disposal	Yes
Right Front Passenger Airbag Deployment 2nd Stage Disposal	Yes
Complete File Recorded	Yes

Deployment Summary (Event 1)

Device	Status	Deployment Command Time (ms)
Driver Front Airbag Stage 1	Deployment Commanded	1
Driver Front Airbag Stage 2	Deployment Commanded	6
Driver Knee Airbag	Deployment Commanded	1
Driver Retractor Pretensioner	Deployment Commanded	1
Driver Lap Pretensioner	Deployment Commanded	6
Driver Switchable Load Limiter	Deployment Commanded	1
Driver Side Seat Airbag	Deployment Not Commanded	
Passenger Front Airbag Stage 1	Deployment Commanded	1
Passenger Front Airbag Stage 2	Deployment Commanded	6
Passenger Active Vent	Deployment Commanded	36
Passenger Knee Airbag	Deployment Commanded	1
Passenger Retractor Pretensioner	Deployment Commanded	1
Passenger Lap Pretensioner	Deployment Commanded	6
Passenger Switchable Load Limiter	Deployment Commanded	1
Passenger Side Seat Airbag	Deployment Not Commanded	
Inflatable Curtain Airbag Left	Deployment Not Commanded	
Inflatable Curtain Airbag Right	Deployment Not Commanded	
Second Row Retractor Pretensioner Left	Deployment Commanded	1
Second Row Left Curtain Airbag	Deployment Not Commanded	
Second Row Side Seat Airbag Left	Deployment Not Commanded	
Second Row Retractor Pretensioner Right	Deployment Commanded	1
Second Row Right Curtain Airbag	Deployment Not Commanded	
Second Row Side Seat Airbag Right	Deployment Not Commanded	
HV Battery Disconnect	Deployment Commanded	1

Event Data (Event 1)

Time (sec)	Vehicle Speed (km/h)	Accelerator Pedal (%)	Rear Motor Speed (rpm)	Service Brake	Stability Control	ABS Activity
-5.0	57	0	3770	Off	On	Off
-4.5	57	0	3776	Off	On	Off
-4.0	57	0	3781	Off	On	Off
-3.5	57	0	3793	Off	On	Off
-3.0	57	0	3784	Off	On	Off
-2.5	57	0	3783	Off	On	Off
-2.0	57	0	3786	Off	On	Off
-1.5	57	0	3782	Off	On	Off
-1.0	57	0	3794	Off	On	Off
-0.5	57	0	3801	Off	On	Off
0.0	57	0	3776	Off	On	Off

Steering Wheel Angle (Event 1)

Steering Wheel Angle (deg)
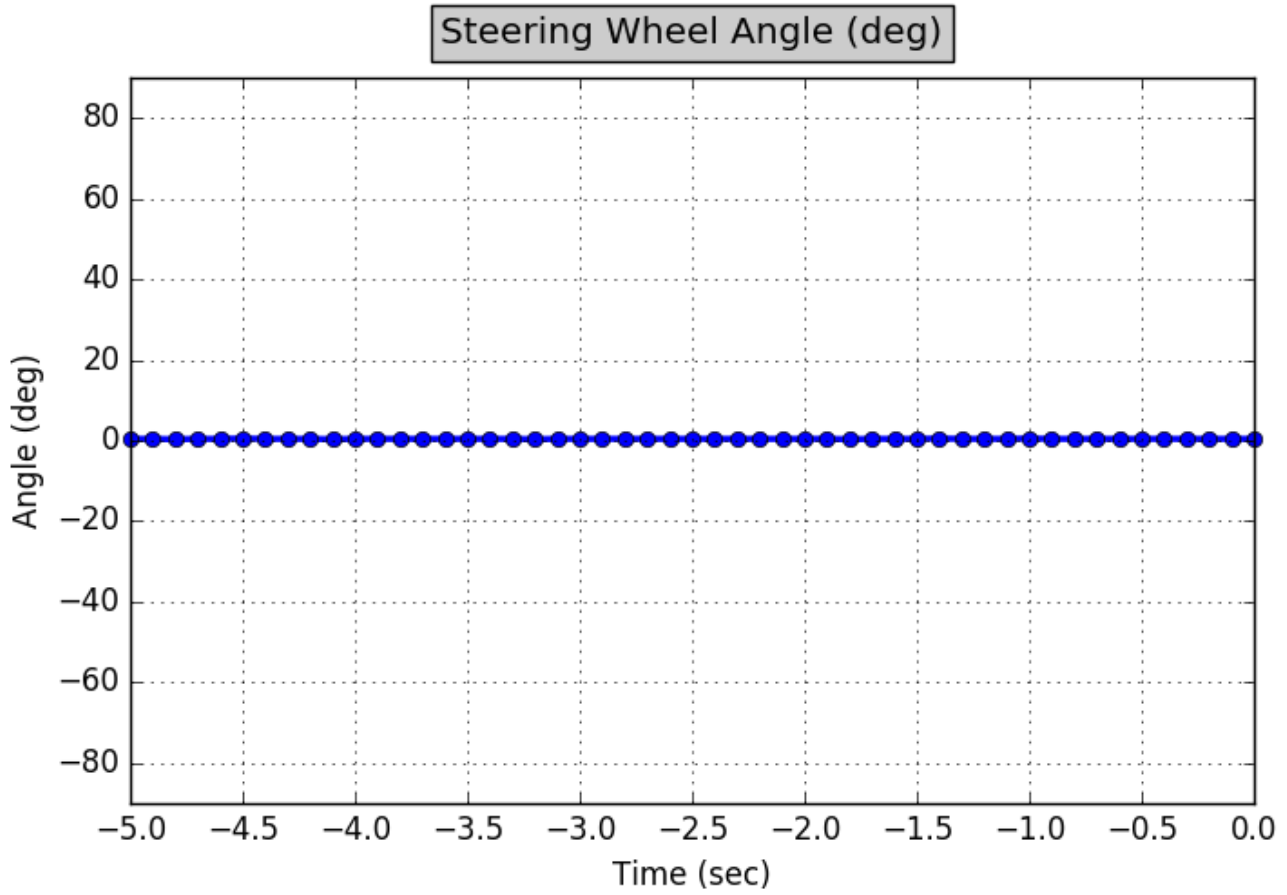
Time (sec)	Angle (deg)	Time (sec)	Angle (deg)	Time (sec)	Angle (deg)
-5.0	0.4	-3.2	0.3	-1.4	0.5
-4.9	0.4	-3.1	0.4	-1.3	0.4
-4.8	0.3	-3.0	0.4	-1.2	0.4
-4.7	0.4	-2.9	0.4	-1.1	0.4
-4.6	0.4	-2.8	0.4	-1.0	0.5
-4.5	0.5	-2.7	0.4	-0.9	0.4
-4.4	0.4	-2.6	0.4	-0.8	0.4
-4.3	0.4	-2.5	0.4	-0.7	0.4
-4.2	0.4	-2.4	0.4	-0.6	0.4
-4.1	0.3	-2.3	0.4	-0.5	0.4
-4.0	0.4	-2.2	0.4	-0.4	0.4
-3.9	0.4	-2.1	0.4	-0.3	0.4
-3.8	0.4	-2.0	0.4	-0.2	0.4
-3.7	0.4	-1.9	0.4	-0.1	0.4
-3.6	0.4	-1.8	0.3	0.0	0.4
-3.5	0.4	-1.7	0.4		
-3.4	0.4	-1.6	0.4		
-3.3	0.4	-1.5	0.4		

Lateral Pre-Crash Acceleration (Event 1)

Lateral Acceleration (g)
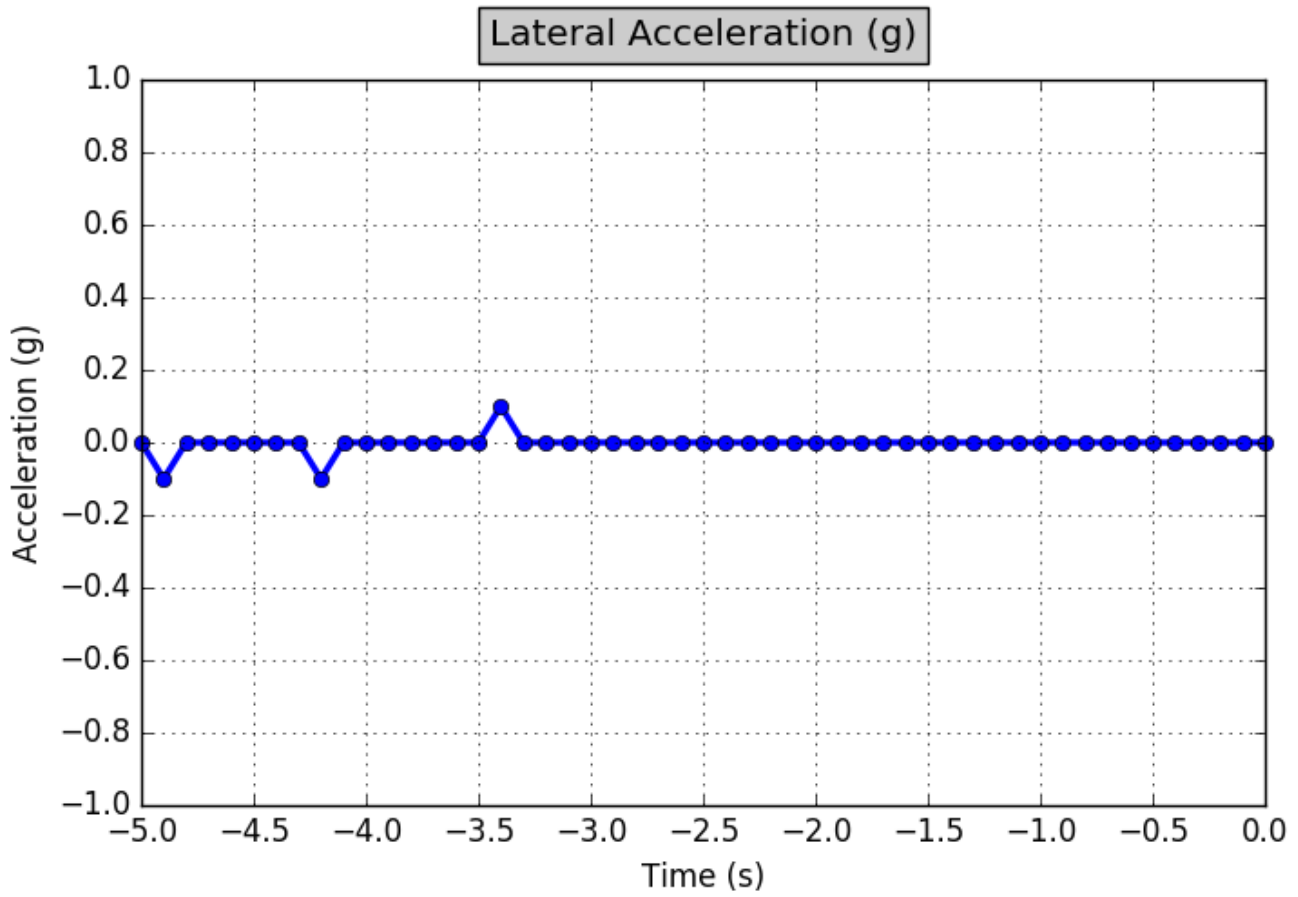
Time (s)	Acceleration (g)	Time (s)	Acceleration (g)	Time (s)	Acceleration (g)
-5.0	0.0	-3.2	0.0	-1.4	0.0
-4.9	-0.1	-3.1	0.0	-1.3	0.0
-4.8	0.0	-3.0	0.0	-1.2	0.0
-4.7	0.0	-2.9	0.0	-1.1	0.0
-4.6	0.0	-2.8	0.0	-1.0	0.0
-4.5	0.0	-2.7	0.0	-0.9	0.0
-4.4	0.0	-2.6	0.0	-0.8	0.0
-4.3	0.0	-2.5	0.0	-0.7	0.0
-4.2	-0.1	-2.4	0.0	-0.6	0.0
-4.1	0.0	-2.3	0.0	-0.5	0.0
-4.0	0.0	-2.2	0.0	-0.4	0.0
-3.9	0.0	-2.1	0.0	-0.3	0.0
-3.8	0.0	-2.0	0.0	-0.2	0.0
-3.7	0.0	-1.9	0.0	-0.1	0.0
-3.6	0.0	-1.8	0.0	0.0	0.0
-3.5	0.0	-1.7	0.0		
-3.4	0.1	-1.6	0.0		
-3.3	0.0	-1.5	0.0		

Longitudinal Pre-Crash Acceleration (Event 1)

Longitudinal Acceleration (g)
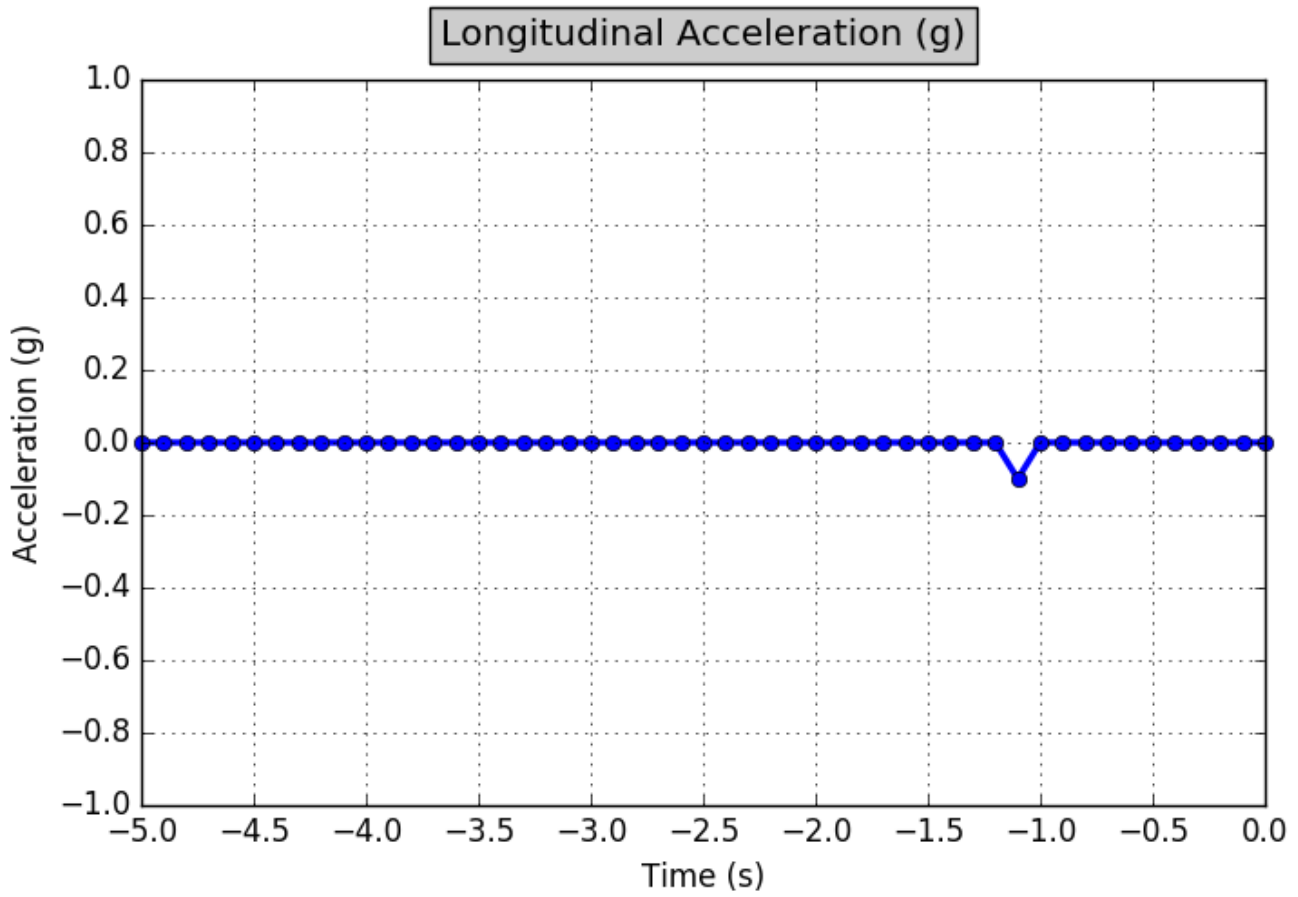
Time (s)	Acceleration (g)	Time (s)	Acceleration (g)	Time (s)	Acceleration (g)
-5.0	0.0	-3.2	0.0	-1.4	0.0
-4.9	0.0	-3.1	0.0	-1.3	0.0
-4.8	0.0	-3.0	0.0	-1.2	0.0
-4.7	0.0	-2.9	0.0	-1.1	-0.1
-4.6	0.0	-2.8	0.0	-1.0	0.0
-4.5	0.0	-2.7	0.0	-0.9	0.0
-4.4	0.0	-2.6	0.0	-0.8	0.0
-4.3	0.0	-2.5	0.0	-0.7	0.0
-4.2	0.0	-2.4	0.0	-0.6	0.0
-4.1	0.0	-2.3	0.0	-0.5	0.0
-4.0	0.0	-2.2	0.0	-0.4	0.0
-3.9	0.0	-2.1	0.0	-0.3	0.0
-3.8	0.0	-2.0	0.0	-0.2	0.0
-3.7	0.0	-1.9	0.0	-0.1	0.0
-3.6	0.0	-1.8	0.0	0.0	0.0
-3.5	0.0	-1.7	0.0		
-3.4	0.0	-1.6	0.0		
-3.3	0.0	-1.5	0.0		

Roll Rate Pre-Crash Data (Event 1)
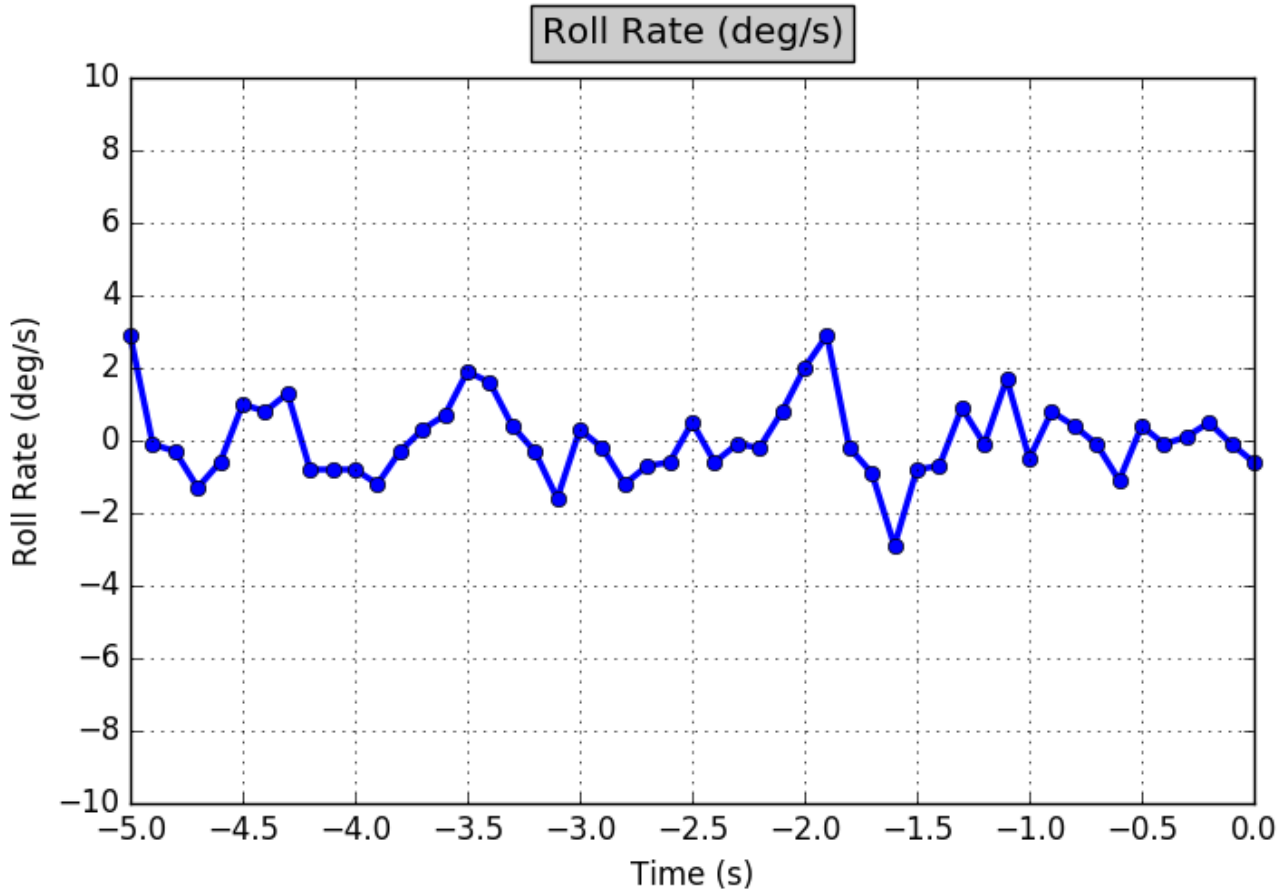
Time (s)	Roll Rate (deg/s)	Time (s)	Roll Rate (deg/s)	Time (s)	Roll Rate (deg/s)
-5.0	2.9	-3.2	-0.3	-1.4	-0.7
-4.9	-0.1	-3.1	-1.6	-1.3	0.9
-4.8	-0.3	-3.0	0.3	-1.2	-0.1
-4.7	-1.3	-2.9	-0.2	-1.1	1.7
-4.6	-0.6	-2.8	-1.2	-1.0	-0.5
-4.5	1.0	-2.7	-0.7	-0.9	0.8
-4.4	0.8	-2.6	-0.6	-0.8	0.4
-4.3	1.3	-2.5	0.5	-0.7	-0.1
-4.2	-0.8	-2.4	-0.6	-0.6	-1.1
-4.1	-0.8	-2.3	-0.1	-0.5	0.4
-4.0	-0.8	-2.2	-0.2	-0.4	-0.1
-3.9	-1.2	-2.1	0.8	-0.3	0.1
-3.8	-0.3	-2.0	2.0	-0.2	0.5
-3.7	0.3	-1.9	2.9	-0.1	-0.1
-3.6	0.7	-1.8	-0.2	0.0	-0.6
-3.5	1.9	-1.7	-0.9		
-3.4	1.6	-1.6	-2.9		
-3.3	0.4	-1.5	-0.8		

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Yaw Rate Pre-Crash Data (Event 1)
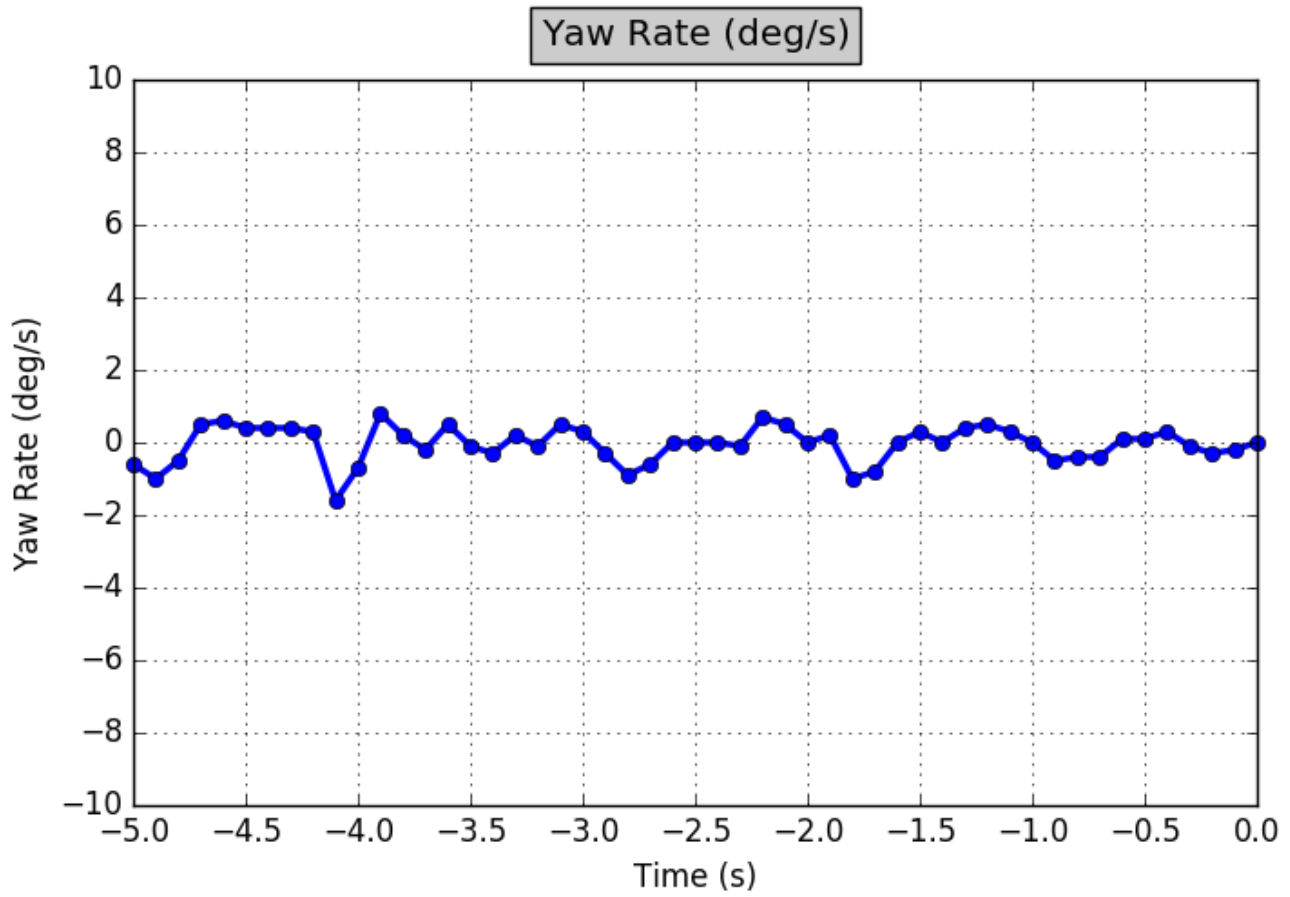
Time (s)	Yaw Rate (deg/s)	Time (s)	Yaw Rate (deg/s)	Time (s)	Yaw Rate (deg/s)
-5.0	-0.6	-3.2	-0.1	-1.4	0.0
-4.9	-1.0	-3.1	0.5	-1.3	0.4
-4.8	-0.5	-3.0	0.3	-1.2	0.5
-4.7	0.5	-2.9	-0.3	-1.1	0.3
-4.6	0.6	-2.8	-0.9	-1.0	0.0
-4.5	0.4	-2.7	-0.6	-0.9	-0.5
-4.4	0.4	-2.6	0.0	-0.8	-0.4
-4.3	0.4	-2.5	0.0	-0.7	-0.4
-4.2	0.3	-2.4	0.0	-0.6	0.1
-4.1	-1.6	-2.3	-0.1	-0.5	0.1
-4.0	-0.7	-2.2	0.7	-0.4	0.3
-3.9	0.8	-2.1	0.5	-0.3	-0.1
-3.8	0.2	-2.0	0.0	-0.2	-0.3
-3.7	-0.2	-1.9	0.2	-0.1	-0.2
-3.6	0.5	-1.8	-1.0	0.0	0.0
-3.5	-0.1	-1.7	-0.8		
-3.4	-0.3	-1.6	0.0		
-3.3	0.2	-1.5	0.3		

Longitudinal Delta-V (Event 1)

Longitudinal Delta-V (km/h)
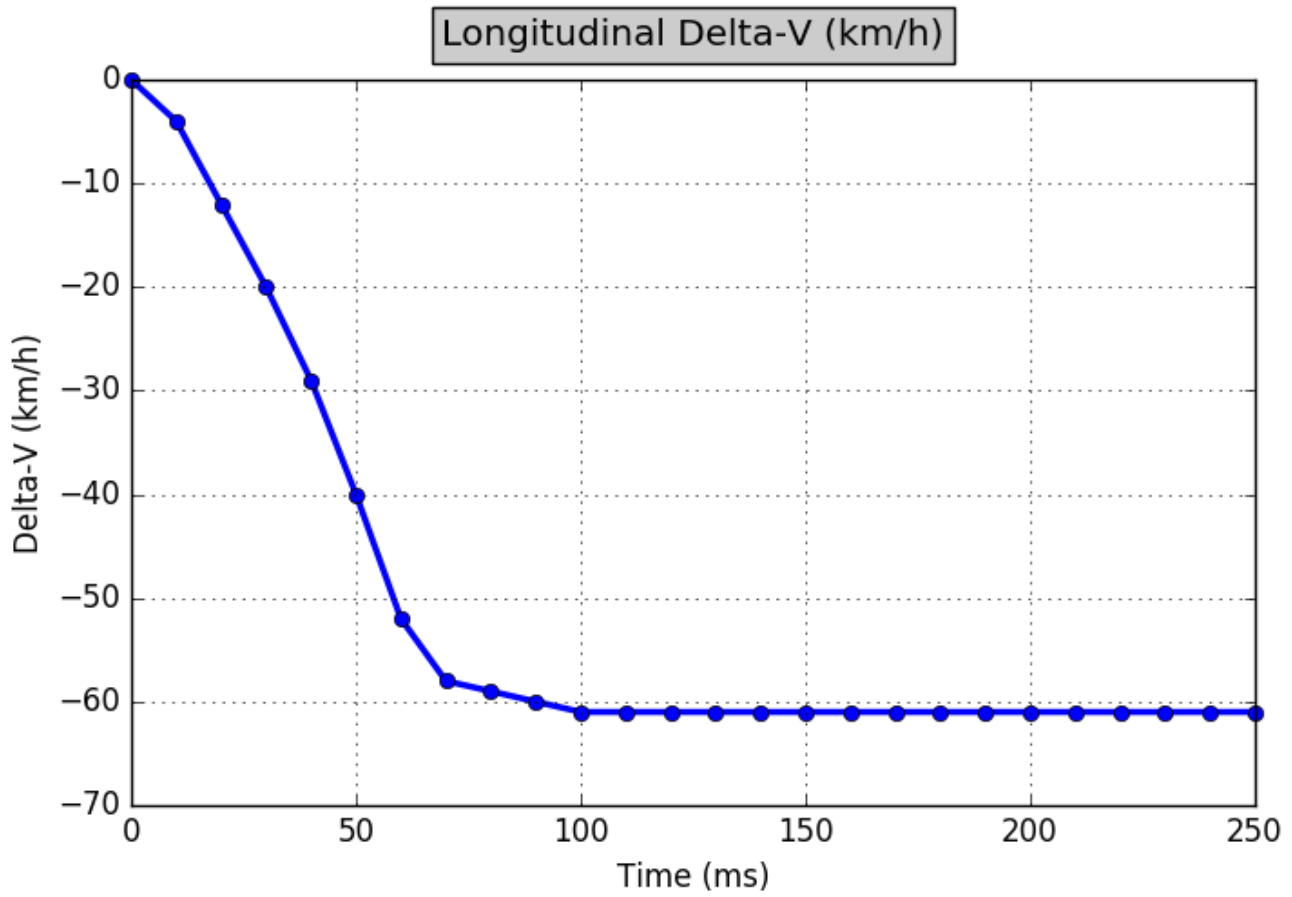
Time (ms)	Delta-V (km/h)	Time (ms)	Delta-V (km/h)
0	0	140	-61
10	-4	150	-61
20	-12	160	-61
30	-20	170	-61
40	-29	180	-61
50	-40	190	-61
60	-52	200	-61
70	-58	210	-61
80	-59	220	-61
90	-60	230	-61
100	-61	240	-61
110	-61	250	-61
120	-61		
130	-61		

Lateral Delta-V (Event 1)

Lateral Delta-V (km/h)
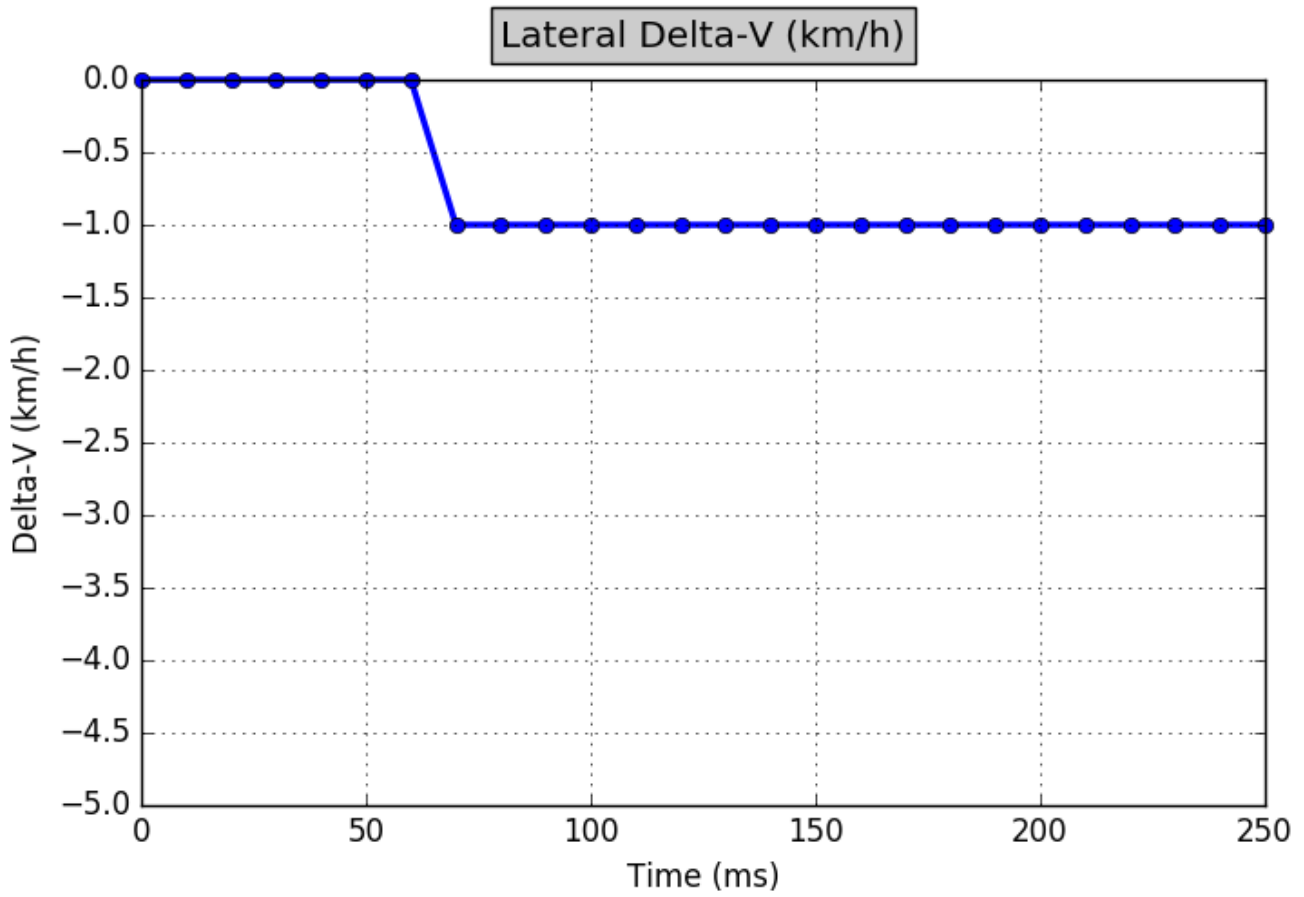
Time (ms)	Delta-V (km/h)	Time (ms)	Delta-V (km/h)
0	0	140	-1
10	0	150	-1
20	0	160	-1
30	0	170	-1
40	0	180	-1
50	0	190	-1
60	0	200	-1
70	-1	210	-1
80	-1	220	-1
90	-1	230	-1
100	-1	240	-1
110	-1	250	-1
120	-1		
130	-1		

Longitudinal Acceleration (Event 1)
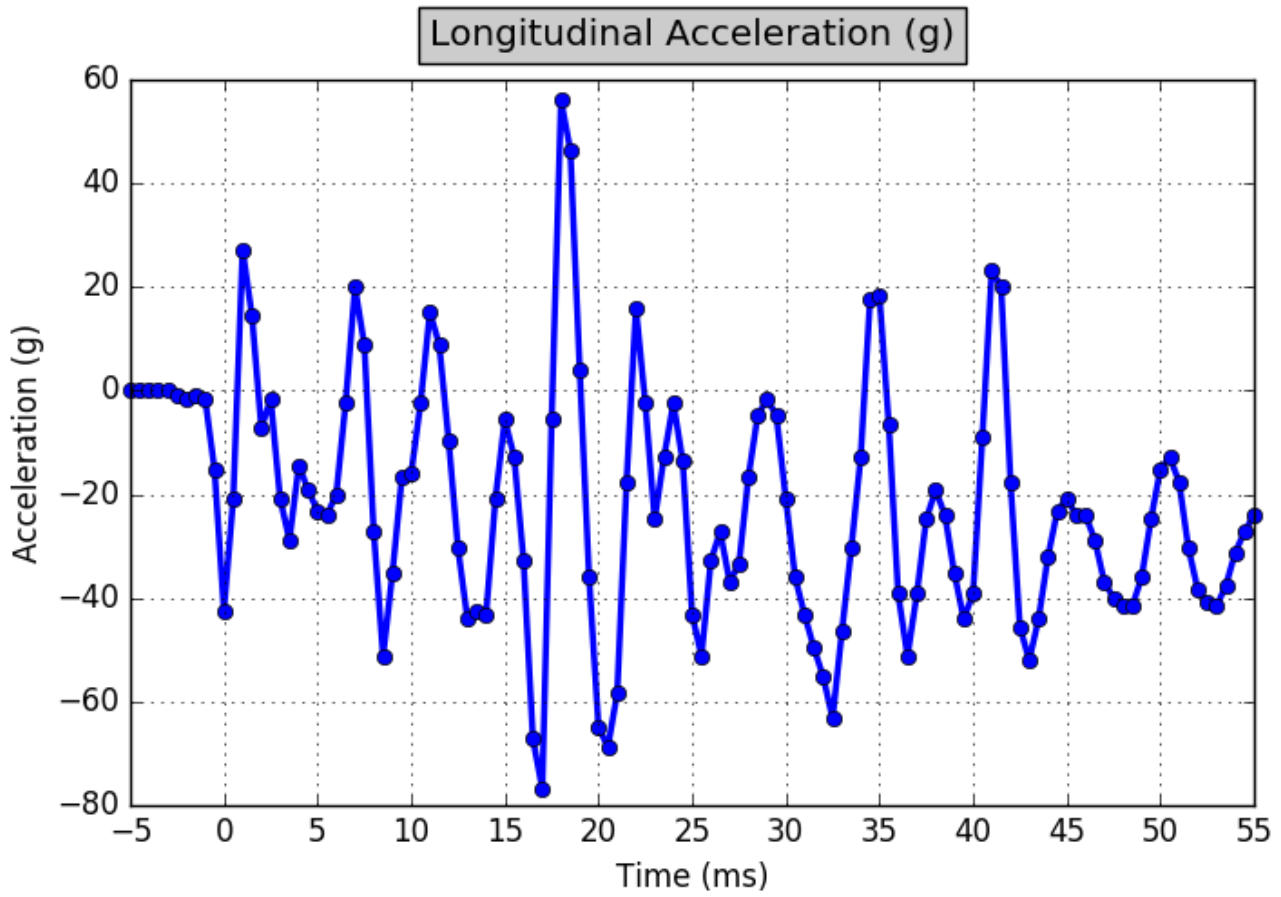
Longitudinal Acceleration Values (Event 1)

Time (ms)	Acceleration (g)	Time (ms)	Acceleration (g)
-5.0	0.0	25.5	-51.2
-4.5	0.0	26.0	-32.8
-4.0	0.0	26.5	-27.2
-3.5	0.0	27.0	-36.8
-3.0	0.0	27.5	-33.6
-2.5	-0.8	28.0	-16.8
-2.0	-1.6	28.5	-4.8
-1.5	-0.8	29.0	-1.6
-1.0	-1.6	29.5	-4.8
-0.5	-15.2	30.0	-20.8
0.0	-42.4	30.5	-36.0
0.5	-20.8	31.0	-43.2
1.0	27.2	31.5	-49.6
1.5	14.4	32.0	-55.2
2.0	-7.2	32.5	-63.2
2.5	-1.6	33.0	-46.4
3.0	-20.8	33.5	-30.4
3.5	-28.8	34.0	-12.8
4.0	-14.4	34.5	17.6
4.5	-19.2	35.0	18.4
5.0	-23.2	35.5	-6.4
5.5	-24.0	36.0	-39.2
6.0	-20.0	36.5	-51.2
6.5	-2.4	37.0	-39.2
7.0	20.0	37.5	-24.8
7.5	8.8	38.0	-19.2
8.0	-27.2	38.5	-24.0
8.5	-51.2	39.0	-35.2
9.0	-35.2	39.5	-44.0
9.5	-16.8	40.0	-39.2
10.0	-16.0	40.5	-8.8
10.5	-2.4	41.0	23.2
11.0	15.2	41.5	20.0
11.5	8.8	42.0	-17.6
12.0	-9.6	42.5	-45.6
12.5	-30.4	43.0	-52.0
13.0	-44.0	43.5	-44.0
13.5	-42.4	44.0	-32.0
14.0	-43.2	44.5	-23.2
14.5	-20.8	45.0	-20.8
15.0	-5.6	45.5	-24.0
15.5	-12.8	46.0	-24.0
16.0	-32.8	46.5	-28.8
16.5	-67.2	47.0	-36.8
17.0	-76.8	47.5	-40.0
17.5	-5.6	48.0	-41.6
18.0	56.0	48.5	-41.6
18.5	46.4	49.0	-36.0
19.0	4.0	49.5	-24.8
19.5	-36.0	50.0	-15.2
20.0	-64.8	50.5	-12.8
20.5	-68.8	51.0	-17.6
21.0	-58.4	51.5	-30.4
21.5	-17.6	52.0	-38.4
22.0	16.0	52.5	-40.8
22.5	-2.4	53.0	-41.6
23.0	-24.8	53.5	-37.6
23.5	-12.8	54.0	-31.2
24.0	-2.4	54.5	-27.2
24.5	-13.6	55.0	-24.0
25.0	-43.2		

Lateral Acceleration (Event 1)

Lateral Acceleration (g)
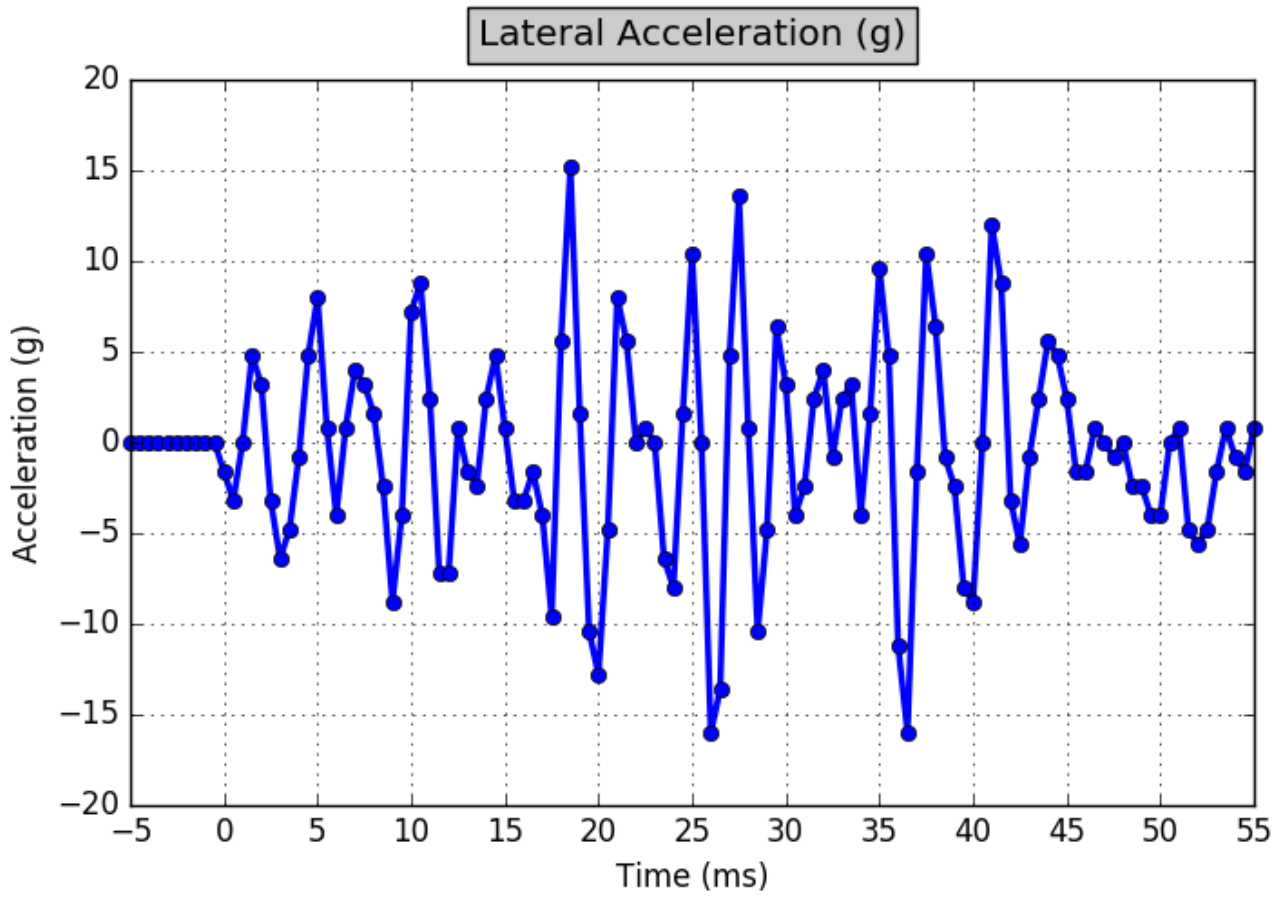
Lateral Acceleration Values (Event 1)

Time (ms)	Acceleration (g)	Time (ms)	Acceleration (g)
-5.0	0.0	25.5	0.0
-4.5	0.0	26.0	-16.0
-4.0	0.0	26.5	-13.6
-3.5	0.0	27.0	4.8
-3.0	0.0	27.5	13.6
-2.5	0.0	28.0	0.8
-2.0	0.0	28.5	-10.4
-1.5	0.0	29.0	-4.8
-1.0	0.0	29.5	6.4
-0.5	0.0	30.0	3.2
0.0	-1.6	30.5	-4.0
0.5	-3.2	31.0	-2.4
1.0	0.0	31.5	2.4
1.5	4.8	32.0	4.0
2.0	3.2	32.5	-0.8
2.5	-3.2	33.0	2.4
3.0	-6.4	33.5	3.2
3.5	-4.8	34.0	-4.0
4.0	-0.8	34.5	1.6
4.5	4.8	35.0	9.6
5.0	8.0	35.5	4.8
5.5	0.8	36.0	-11.2
6.0	-4.0	36.5	-16.0
6.5	0.8	37.0	-1.6
7.0	4.0	37.5	10.4
7.5	3.2	38.0	6.4
8.0	1.6	38.5	-0.8
8.5	-2.4	39.0	-2.4
9.0	-8.8	39.5	-8.0
9.5	-4.0	40.0	-8.8
10.0	7.2	40.5	0.0
10.5	8.8	41.0	12.0
11.0	2.4	41.5	8.8
11.5	-7.2	42.0	-3.2
12.0	-7.2	42.5	-5.6
12.5	0.8	43.0	-0.8
13.0	-1.6	43.5	2.4
13.5	-2.4	44.0	5.6
14.0	2.4	44.5	4.8
14.5	4.8	45.0	2.4
15.0	0.8	45.5	-1.6
15.5	-3.2	46.0	-1.6
16.0	-3.2	46.5	0.8
16.5	-1.6	47.0	0.0
17.0	-4.0	47.5	-0.8
17.5	-9.6	48.0	0.0
18.0	5.6	48.5	-2.4
18.5	15.2	49.0	-2.4
19.0	1.6	49.5	-4.0
19.5	-10.4	50.0	-4.0
20.0	-12.8	50.5	0.0
20.5	-4.8	51.0	0.8
21.0	8.0	51.5	-4.8
21.5	5.6	52.0	-5.6
22.0	0.0	52.5	-4.8
22.5	0.8	53.0	-1.6
23.0	0.0	53.5	0.8
23.5	-6.4	54.0	-0.8
24.0	-8.0	54.5	-1.6
24.5	1.6	55.0	0.8
25.0	10.4		

Normal Acceleration (Event 1)
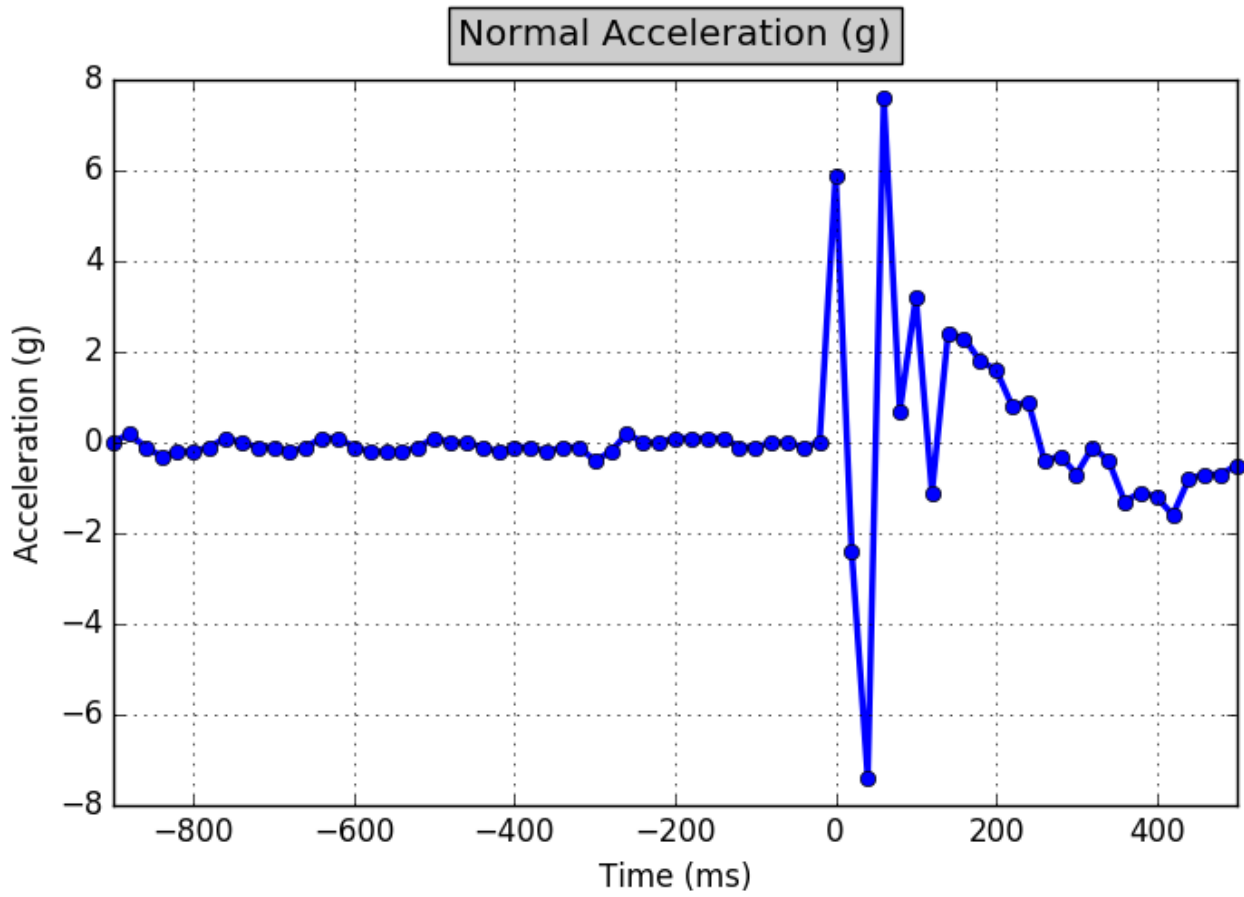
Normal Acceleration Values (Event 1)

Time (ms)	Acceleration (g)	Time (ms)	Acceleration (g)
-900	0.0	-180	0.1
-880	0.2	-160	0.1
-860	-0.1	-140	0.1
-840	-0.3	-120	-0.1
-820	-0.2	-100	-0.1
-800	-0.2	-80	0.0
-780	-0.1	-60	0.0
-760	0.1	-40	-0.1
-740	0.0	-20	0.0
-720	-0.1	0	5.9
-700	-0.1	20	-2.4
-680	-0.2	40	-7.4
-660	-0.1	60	7.6
-640	0.1	80	0.7
-620	0.1	100	3.2
-600	-0.1	120	-1.1
-580	-0.2	140	2.4
-560	-0.2	160	2.3
-540	-0.2	180	1.8
-520	-0.1	200	1.6
-500	0.1	220	0.8
-480	0.0	240	0.9
-460	0.0	260	-0.4
-440	-0.1	280	-0.3
-420	-0.2	300	-0.7
-400	-0.1	320	-0.1
-380	-0.1	340	-0.4
-360	-0.2	360	-1.3
-340	-0.1	380	-1.1
-320	-0.1	400	-1.2
-300	-0.4	420	-1.6
-280	-0.2	440	-0.8
-260	0.2	460	-0.7
-240	0.0	480	-0.7
-220	0.0	500	-0.5
-200	0.1		

Serial Numbers

Sensor Number	Sensor Type	Serial Number
1	RCM Serial Number	11AA77554000
2	Left Front Crash Sensor	B321D1231F36
3	Right Front Crash Sensor	B321D1235C40
4	Left Side Impact Crash Sensor (B-Pillar)	C12192344003
5	Right Side Impact Crash Sensor (B-Pillar)	282A53DC6568
6	Left Side Impact Crash Sensor (C-Pillar)	0E2A55166A6D
7	Right Side Impact Crash Sensor (C-Pillar)	A72192345214
8	Left Side Impact Crash Sensor (D-Pillar)	BB21911C3319
9	Left Side Door Pressure Sensor	B72093B71552
10	Right Side Door Pressure Sensor	9920D80F2C14

Hexadecimal Data

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FD52

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BD 88 31 14

F015

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2016	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF

5818 Continued

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2044   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
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2100   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
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2156   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
2184   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
2212   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
2240   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 00 00 00 00 00 00 00 00
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2296   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
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4088   00 00 00 00 00 00 00 00 00 00 00 00
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5817

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0112   5C 70 1F FE 5B 87 04 C0 06 87 04 C0 03 87 04 FE 5C 87 04 00 00 00 00 00 00 00 00 00
0140   00 00 00 00 00 00 00 05 66 0C E5 03 D4 03 C0 00 4B 62 64 5E 1B 00 00 FF 9F FF F0 3F
0168   EC 00 11 00 00 33 00 03 F0 00 11 00 D8 C2 DF 04 EA 0C E5 00 01 00 06 00 01 00 06 00
0196   24 00 01 00 06 00 01 00 06 00 01 00 01 00 01 00 01 00 01 00 01 00 01 FF FF FF FF FF FF FF
0224   FF FF FF FF FF 00 01 FF FF FF FF FF FF FF FF FF FF FF FF 00 01 00 01 00 01 00 01 00
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0280   FF FF FF FF FF 00 01 FF FF FF FF FF FF FF FF FF FF FF FF 00 00 00 00 00 00 00 00 00
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0364   C4 C3 C3 C3 C3 C3 C3 C3 C3 C3 C3 C3 C3 C3 C3 C3 C3 00 00 00 00 00 00 00 FF FF FF FF
0392   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 00 00 00 00 FF FE FF FE ED CB E6 22
0420   12 F7 FE E6 DC EE E8 E3 E2 E7 FD 19 0B DE C0 D4 EB EC FD 13 0B F4 DA C9 CB CA E6 F9
0448   F0 D7 AC A0 F9 46 3A 05 D3 AF AA B7 EA 14 FD E1 F0 FD EF CA C0 D7 DE D2 D6 EB FA FE
0476   FA E6 D3 CA C2 BB B1 C6 DA F0 16 17 F8 CF C0 CF E1 E8 E2 D4 C9 CF F5 1D 19 EA C7 BF
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0560   03 F7 F7 01 FE FD 03 06 01 FC FC FE FB F4 07 13 02 F3 F0 FA 0A 07 00 01 00 F8 F6 02
0588   0D 00 EC EF 06 11 01 F3 FA 08 04 FB FD 03 05 FF 03 04 FB 02 0C 06 F2 EC FE 0D 08 FF
0616   FD F6 F5 00 0F 0B FC F9 FF 03 07 06 03 FE FE 01 00 FF 00 FD FD FB FB 00 01 FA F9 FA
0644   FE 01 FF FE 01 00 02 FF FD FE FE FF 01 00 FF FF FE FF 01 01 FF FE FE FE FF 01 00 00
0672   FF FE FF FF FE FF FF FC FE 02 00 00 01 01 01 01 FF FF 00 00 FF 00 3B E8 B6 4C 07 20
0700   F5 18 17 12 10 08 09 FC FD F9 FF FC F3 F5 F4 F0 F8 F9 F9 FB 15 ED 15 FE 16 09 15 FE
0728   15 FE 15 FE 16 09 16 04 16 0F 16 1A 16 04 0E BA 0E C0 0E C5 0E D1 0E C8 0E C7 0E CA
0756   0E C6 0E D2 0E D9 0E C0 04 B5 04 B6 04 B7 04 B8 04 B8 04 B7 04 B8 04 B8 04 B9 04 BB
0784   04 B8 FF FF FF FF FF FF FF FF FF FF FF 03 03 03 03 03 03 03 03 03 03 03 01 01 01 01
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0952   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0980   FF 58 FF D3 FF C6 FF F5 FF AC FF E1 FF AB FF 89 FF D1 FE EF FF 83 FF 16 FF BE FF CA
1008   FF 4B FF A5 FF 5E FF 5D FF 37 FF 8B FF 89 FF B2 00 3B FE E6 FF CD FF 60 FF D2 FF DB
1036   FF 6B FF AF FF B1 00 26 FF 5B FF 52 FF 83 FF B5 FF 8B FF 5B FF 6E FE 56 FF 7F 00 0E
1064   FF D2 FF 76 FE F2 FF A7 00 40 00 2D FF C8 00 79 00 0C FF 8A FE 4C 00 3F FF 5A 00 1E
1092   01 0E 00 5A 00 41 FE 88 FF 2D FF 10 00 3E 00 4F 00 8F 00 0F 00 35 01 54 FE E1 00 F9
1120   FF 3B 00 90 FF DE FF B3 FF 19 FF 94 FF BF 00 00 FF 5F 00 15 00 87 00 9B FF E9 FF 38
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1176   00 7A FF E9 00 27 FF 1C 01 7F FF F7 FF D4 FF 50 FF AE 00 88 00 6B 00 A7 FF 94 FF 9C
1204   FF 93 FF 63 FF D9 00 2D 00 63 00 FA 00 DA 00 31 FF D9 FF 30 00 22 FF E3 FF 65 FF 9F
1232   FF B5 00 45 FF B1 FF F8 FF E2 00 64 01 0D 01 7D FF E7 FF 8D FE 80 FF 93 FF A7 00 7D
1260   FF F6 00 E5 FF BD 00 6B 00 32 FF F7 FF 6E 00 3A FF ED 00 0D 00 42 FF ED FF AD FF 92
1288   FF 57 FF B1 00 5F 00 68 00 44 00 42 00 49 00 30 FE E3 FF 7F 00 8C 00 24 FF E3 00 5A
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1400	20	04	20	04	20	04	20	03	20	04	20	04	20	04	20	04	20	04	20	04	20	04	20	04	20	03	20	04
1428	20	04	20	04	20	04	20	04	20	04	20	04	20	04	20	04	20	04	20	04	20	04	20	04	20	03	20	04
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1596	FF	FF	FF	FF	E0	1F	2B	00	2B	00	2B	00	46	00	46	00	FF	FF	2B	00	2B	00	00	00	57	00	4A	00
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2184	EE	29	17	17	F1	60	4A	EA	B3	F5	19	07	F6	DE	1B	3F	18	89	ED	78	E5	01	37	EE	3A	14	F1	49
2212	3A	88	94	52	78	47	94	89	11	38	E4	88	FF	5D	06	F4	06	E6	1B	F2	0E	0A	F7	FE	FD	FC	FE	29
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2884	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
2912	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
2940	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
2968	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
2996	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
3024	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
3052	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00

5817 Continued

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3080   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
3108   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
3136   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
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3192   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
3220   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
3248   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
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3304   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
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3612   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
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3780   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
3808   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
3836   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
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4088   00 00 00 00 00 00 00 00 00 00 00 00

       A4 DC 7B FE 08 80 B4 BF 9A D3 DF E6 C1 2D E6 AE 46 8C 9E E6 C9 26 23 F4 BC CE 26 58 55 19 9F D9
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