

REPORT NUMBER KAR22072-01

**NEW CAR ASSESSMENT PROGRAM
FRONTAL BARRIER IMPACT TEST**

**HONDA OF CANADA
2003 HONDA PILOT
4WD SUV**

NHTSA NUMBER: HO5303

**PREPARED BY:
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JULY 3, 2002

FINAL REPORT

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Date of Acceptance

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16. Abstract A 35 mph (56.3 km/h) frontal barrier impact was conducted on a 2003 Honda Pilot 4WD SUV at KARCO Engineering, LLC on 6/26/02. This test was conducted to obtain data indicant of FMVSS 208, 212, 219 (partial), 301, and footwell intrusion performance. The impact velocity is 55.91 km/h. The ambient temperature at the barrier face at the time of impact is 36.1 degrees Celcius. The vehicle's maximum post test static crush is 575 mm at the vehicle centerline. The test vehicle is equipped with a 3-point continuous belt system and second generation supplemental airbags in both front outboard seating positions. With respect to FMVSS 208 "Occupant Crash Protection", the occupant injury criteria summary is as follows: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 35%;">Measurement Description</th> <th style="width: 15%;">Units</th> <th style="width: 15%;">Threshold</th> <th style="width: 20%;">Driver ATD</th> <th style="width: 15%;">Passenger ATD</th> </tr> </thead> <tbody> <tr> <td>Head Injury Criteria (HIC)</td> <td>N/A</td> <td>1000</td> <td>270.6</td> <td>465.9</td> </tr> <tr> <td>Max. Thorax Accel. (3 msec Clip)</td> <td>G's</td> <td>60</td> <td>38.1</td> <td>41.4</td> </tr> <tr> <td>Left Femur force</td> <td>Newtons</td> <td>10009</td> <td>-1352.8</td> <td>-4046.2</td> </tr> <tr> <td>Right Femur Force</td> <td>Newtons</td> <td>10009</td> <td>-2501.4</td> <td>-3663.7</td> </tr> </tbody> </table>				Measurement Description	Units	Threshold	Driver ATD	Passenger ATD	Head Injury Criteria (HIC)	N/A	1000	270.6	465.9	Max. Thorax Accel. (3 msec Clip)	G's	60	38.1	41.4	Left Femur force	Newtons	10009	-1352.8	-4046.2	Right Femur Force	Newtons	10009	-2501.4	-3663.7
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SECTION 1
PURPOSE AND SUMMARY OF TEST HO5303

1.1 PURPOSE

This 35 mph (56.3 km/h) frontal barrier impact test is part of the Vehicle Barrier Impact Testing Program sponsored by the National Highway Traffic Safety Administration (NHTSA) under Contract No. DTNH22-01-D-02005. The purpose of this test was to obtain vehicle crashworthiness and occupant restraint system performance data for an impact speed in excess of the current 30 mph (48.3 km/h) requirements.

The 35 mph (56.3 km/h) frontal barrier impact test was conducted in accordance with the Office of Crashworthiness Standards Laboratory Test procedure.

1.2 SUMMARY

A load cell barrier consisting of 24 load cells was impacted by a 2003 Honda Pilot 4WD SUV at a velocity of 55.91 km/h. The test was performed at Karco Engineering, LLC on June 26, 2002. Pre- and post-test photographs of the vehicle and dummies can be found in Appendix A.

One real-time and 16 high-speed cameras were used to document the frontal barrier impact event. Camera locations and other pertinent camera information can be found in this report.

Two Part 572E, 50th percentile male anthropomorphic test devices (ATDs), were placed in the driver and right-front passenger seating positions according to dummy placement instructions specified in the Laboratory Indicant Test Procedure.

Both ATDs were fully instrumented with nine accelerometer array head, chest and pelvis triaxial accelerometers, chest displacement potentiometers, six-axis upper neck transducers, right/left femur load cells, and lower leg instrumentation. Seat belt load cells were also placed on the driver's and passenger's lap and shoulder belts to measure dummy torso and pelvic section loading. The driver (position 1) ATD (Serial No. 34) and the right-front passenger (position 2) ATD (Serial No. 35) were calibrated previous to this test.

One Hundred and Nine (109) channels of data were recorded using an on-board data acquisition system. Appendix B contains the vehicle and dummy response data traces. Appendix C contains Load Cell Barrier information. Appendix D contains the Instrumentation Data Channel assignments. Appendix E contains the Dummy Calibration data and Appendix F contains the owner's manual instructions for the occupant and restraint systems. Appendix G contains the Nine Accelerometer Head Array data.

There was 100 percent windshield retention and no intrusion into the protected zone of the windshield during the impact event. There was no Stoddard solvent leakage after the event or during any phase of the static rollover.

The maximum static crush of the vehicle was 575 mm and both the driver and the passenger side doors remained closed during the impact event and were operable after the impact.

The driver's visible contact points were as follows: The driver ATD head contacted the airbag and headrest, its chest contacted the airbag and the abdomen had no contact. The left knee contacted the steering column/knee bolster and the right knee contacted the knee bolster.

The passenger's visible contact points were as follows: The passenger ATD head contacted the airbag and headrest. The chest and abdomen contacted the airbag. Both knees contacted the glove box.

Occupant injury data is contained in table below.

OCCUPANT DATA SUMMARY						
ATD Position	HIC	Clip (g)	Chest Disp (mm)	Left Femur (N)	Right Femur (N)	Belt Spool (mm)
Driver	270.6	38.1	-33.8	-1352.8	-2501.4	64.2
Passenger	465.9	41.4	-33.3	-4046.2	-3663.7	57.8

SECTION 2
OCCUPANT AND VEHICLE INFORMATION/DATA SHEETS

Test Vehicle: 2003 Honda Pilot 4WD SUV

NHTSA No.: HO5303

Test Program: 2002 NHTSA 35mph NCAP

Test Date: 6/26/02

CONVERSION FACTORS USED IN THIS REPORT*

Quantity	Typical Application	Std Units	Metric Unit	Multiply By
Mass	Vehicle Weight	lb	kg	0.4536
Linear Velocity	Impact Velocity	mile/h	km/h	1.609
Length or Distance	Measurements	in	mm	25.4
Volume	Fuel Systems	gal	liter	3.785
Volume	Small Fluids	oz	mL	29.573
Pressure	Tire Pressures	lbf/in ²	kPa	7.0
Volume	Liquid	gal	liter	3.785
Temperature	General Use	°F	°C	$=(tf - 32)/1.8$
Force	Dynamic Forces	lbf	N	4.448
Moment	Torque	lbf/ft	Nm	1.355

* Based on the Recommended Practice in SAE J916, May 85

DATA SHEET NO. 1
CRASH TEST SUMMARY

Test Vehicle: 2003 Honda Pilot 4WD SUV
Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303
Test Date: 6/26/02

PRIMARY IMPACT DATA

Measured Parameter	Units	Value
Velocity at Impact	km/h	55.91
Test Weight	kg	2174
Impact Angle	degrees	0
Average Rebound	mm	781
Maximum Static Crush	mm	575

DOOR OPENING AND SEAT TRACK INFORMATION

Description	Driver	Passenger
Front Door Opening	Closed, opened by hand without the aid of tools	Closed, opened by hand without the aid of tools
Rear Door Opening	Closed, opened by hand without the aid of tools	Closed, opened by hand without the aid of tools
Seat Track Shift (mm)	None	None
Seat Back Failure	None	None

TEST DUMMY INFORMATION

Description	Driver	Passenger
Dummy Type / Serial No.	50% Male Hybrid III / No. 34	50% Male Hybrid III / No. 35
Head Contact	Airbag/Headrest	Airbag/Headrest
Chest Contact	Airbag	Airbag
Abdomen Contact	None	Airbag
Left Knee Contact	Steering Column/Knee Bolster	Glove Box
Right Knee Contact	Knee Bolster	Glove Box

16mm MOVIE COVERAGE

High Speed	16
Real Time	1
Total	17

DATA CHANNELS

Driver ATD Sensors	46
Passenger ATD Sensors	46
Belt Assessment Sensors	8
Vehicle Structure Accelerometers	9
Rigid Barrier Load Cells	24

DATA SHEET NO. 2
GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2003 Honda Pilot 4WD SUV
 Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303
 Test Date: 6/26/02

TEST VEHICLE INFORMATION

Make	Honda
Model	Pilot
Body Style	4 Door SUV
NHTSA No.	HO5303
VIN	2HKYF18513H506726
Color	Aqua Blue
Delivery Date	6/12/02
Odometer Reading (mi.)	19
Dealer	Valley Hi Toyota
Transmission	5 Speed Automatic
Final Drive	Rear
Type/No. Cylinders	V-6
Engine Displacement (L)	3.5
Engine Placement	Transverse
Front Seat Side Airbag	Yes

TEST VEHICLE OPTIONS

Driver Front Airbag	Yes
Pass. Front Airbag	Yes
Power Windows	Yes
Pre-Tensioners	Yes
Power Door Locks	Yes
Tilt Wheel	Yes
Air Conditioning	Yes
Power Brakes	Yes
Disc Brakes, Front	Yes
Disc Brakes, Rear	Yes
Anti-lock Brakes	Yes
Head Airbag	No
Load Limiter	Yes
Cruise Control	Yes
Bucket Seats	Yes

DATA FROM CERTIFICATION LABEL

Manufactured By	Honda of Canada	GVWR (kg)	2699
Date of Manufacture	May-02	GAWR Front (kg)	1300
		GAWR Rear (kg)	1431

DATA FROM TIRE PLACARD

Measured Parameter	Front	Rear
Max. Tire Pressure (kPa)	225	225
Cold Pressure (kPa)	225	225
Recommend Tire Size	P235/70R16	P235/70R16
Tire Size on Vehicle	P235/70R16	P235/70R16
Tire Manufacturer	Goodyear	Goodyear

VEHICLE SEATING AND CAPACITY WEIGHT INFORMATION

Measured Parameter	Front	Rear	Third	Total
Type of Seats	Bucket	Bench	None	
Number of Occupants	2	3	3	8
Capacity Wt. (VCW) (kg)				600
Cargo Weight (RCLW) (kg)				55

DATA SHEET NO. 2...(CONTINUED)
GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2003 Honda Pilot 4WD SUV
 Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303
 Test Date: 6/26/02

TEST VEHICLE WEIGHTS

	Units	As Delivered (UVW)			As Tested (ATW)		
		Front Axle	Rear Axle	Total	Front Axle	Rear Axle	Total
Left	kg	562	443		614	494	
Right	kg	545	425		591	474	
Ratio	%	56.1	43.9		55.5	44.5	
Totals	kg	1107	868	1975	1205	968	2173

TARGET TEST WEIGHT CALCULATION

Measured Parameter	Units	Value
Total Delivered Weight (UVW)	kg	1975
Weight of 2 P572 ATD's	kg	152
Rated Cargo/Luggage Weight (RCLW)	kg	55
Calculated Vehicle Target Weight (TVTW)	kg	2182

TEST VEHICLE ATTITUDE AND CG

	Units	LF	RF	LR	RR	CG (aft of front axle)
As Delivered	mm	824	831	836	835	1187
As Tested	mm	806	810	819	823	1203

Vehicle Wheel base (mm): 2703

Weight of Ballast secured in cargo area (kg): 0

Vehicle Components Removed: _____

* Ballast weight does not include cameras, instrumentation, and brake abort system.

FUEL SYSTEM DATA

Fuel System Capacity From Owner's Manual (L): 73.1

Usable Capacity Figure Furnished by COTR (L): 73.1

Actual Test Volume with entire fuel System Filled (L): 67.9

Test Fluid Type: Stoddard Solvent ; Specific Gravity: 0.764

Kinematic Viscosity: as per ASTM Standard D484-71 ; Color: Purple

Is Vehicle Fuel Pump Electric or Mechanical?: Electric

If electric, does pump operate with ignition switch "ON" & engine "OFF"? Yes

Fuel System Particulars: Driver side filler door, tank mounted at rear.

**DATA SHEET NO. 3
POST IMPACT DATA**

Test Vehicle: 2003 Honda Pilot 4WD SUV
Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303
Test Date: 6/26/02

SPEED TRAP DATA

Measured Parameter	Units	Requirement	Value
Trap No. 1 Velocity (Primary)	km/h	55.51 to 57.12	55.91
Trap No. 1 Entry Distance	mm	< 1524	1524
Trap No. 1 Exit Distance	mm	< 1524	305
Trap No. 2 Velocity (Redundant)	km/h	55.51 to 57.12	55.94
Trap No. 2 Entry Distance	mm	< 1524	1524
Trap No. 2 Exit Distance	mm	< 1524	305

VEHICLE STATIC CRUSH

Measured Parameter	Units	Pre-Test	Post-Test	Difference
Left Side	mm	4529	4181	-348
Center	mm	4755	4180	-575
Right Side	mm	4529	4142	-387

VEHICLE REBOUND FROM BARRIER

Measured Parameter	Units	Value
Left Side	mm	842
Center	mm	760
Right Side	mm	741
Average	mm	781

DATA SHEET NO. 4
TEST VEHICLE INFORMATION

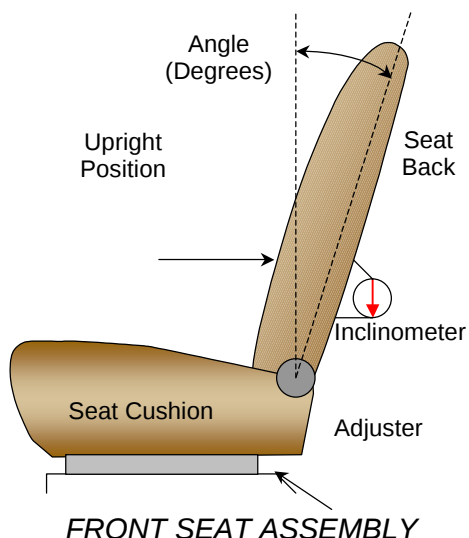
Test Vehicle: 2003 Honda Pilot 4WD SUV
Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303
Test Date: 6/26/02

NOMINAL DESIGN RIDING POSITION

The driver and passenger seat backs are positioned to the manufacturers designated angle. The procedure is as follows: A special application tool with pointed probes is inserted through the fabric to make contact with the rigid portion of the lower seat frame assembly, approximately 13 inches above the pivot point of the seat back. An inclinometer is placed against the flat surface of the tool and the seat back angle is measured directly from the dial face.

Driver seat back angle: 15° with a seated dummy
Passenger seat back angle: 15° with a seated dummy



SEAT FORE/AFT POSITIONS

Driver seat is power operated and has a total travel of 240mm and the passenger seat has 25 positions or detents. The first or forward most position is counted as number one (1). The fore/aft position is set aft of the middle position for both driver and passenger.

Driver seat fore/aft total travel: 240mm of total travel
Driver seat fore/aft position: 120mm or midpoint of travel
Passenger seat fore/aft total travel: 25 seating positions or detents
Passenger seat fore/aft position: 13th detent from forward most

SEAT BELT UPPER ANCHORAGE

The test vehicle is equipped with adjustable anchorages for both driver and passenger seat positions. There are 4 positions or detents for the driver and 5 positions or detents for the passenger. Both the driver and the passenger anchorages are placed in the uppermost position.

DATA SHEET NO. 4...(CONTINUED)
TEST VEHICLE INFORMATION

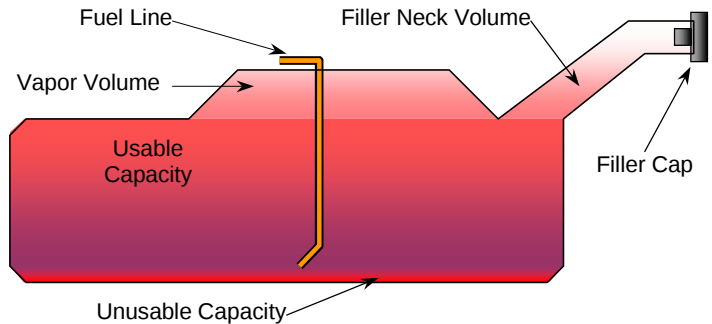
Test Vehicle: 2003 Honda Pilot 4WD SUV
 Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303
 Test Date: 6/26/02

FUEL TANK CAPACITY DATA

The "Usable Capacity" of the standard equipment fuel tank is:	<u>73.1</u>	liters
The "Usable Capacity" of any optional equipment fuel tank is:	<u>N/A</u>	liters
"Usable Capacity" used for certification tests FMVSS 301 requirements:	<u>67.2 to 68.7</u>	liters
Actual amount of Stoddard solvent added to vehicle for certification test:	<u>67.9</u>	liters

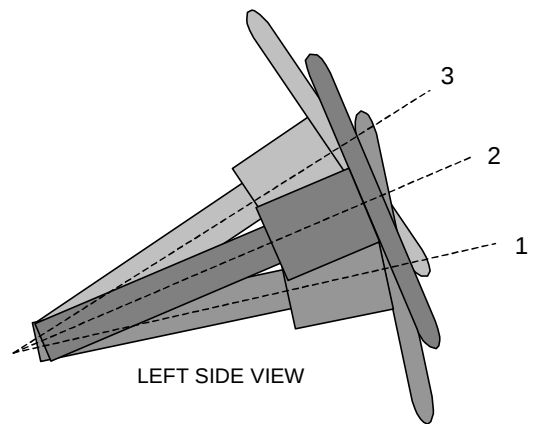
The test vehicle is equipped with an electric fuel pump. The fuel pump operates for approximately two seconds after the ignition is placed in the "ON" position, after which the fuel pump automatically shuts off. The fuel filler door is located on the left rear fender. The standard fuel tank occupies the area under the rear seat. Fuel lines run inside the frame rail to the engine compartment.



VEHICLE FUEL TANK ASSEMBLY

STEERING COLUMN ADJUSTMENT

Steering wheel and column adjustments are made so that the steering wheel hub is at the geometric center of the locus it describes when moved through its full range of motion. An aluminum plate is placed across the rim of the steering wheel, an inclinometer is placed on the plate and the angle is measured. The steering column has seven (7) positions or detents and is set in the fourth (4) detent as indicated by the diagram at right and the angle below.



STEERING COLUMN ASSEMBLY

Lowermost; position 1:	<u>21°</u>
Geometric center; position 2:	<u>23°</u>
Uppermost position 3:	<u>25°</u>

DATA SHEET NO. 5
DUMMY POSITIONING IN VEHICLE

Test Vehicle: 2003 Honda Pilot 4WD SUV
Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303
Test Date: 6/26/02

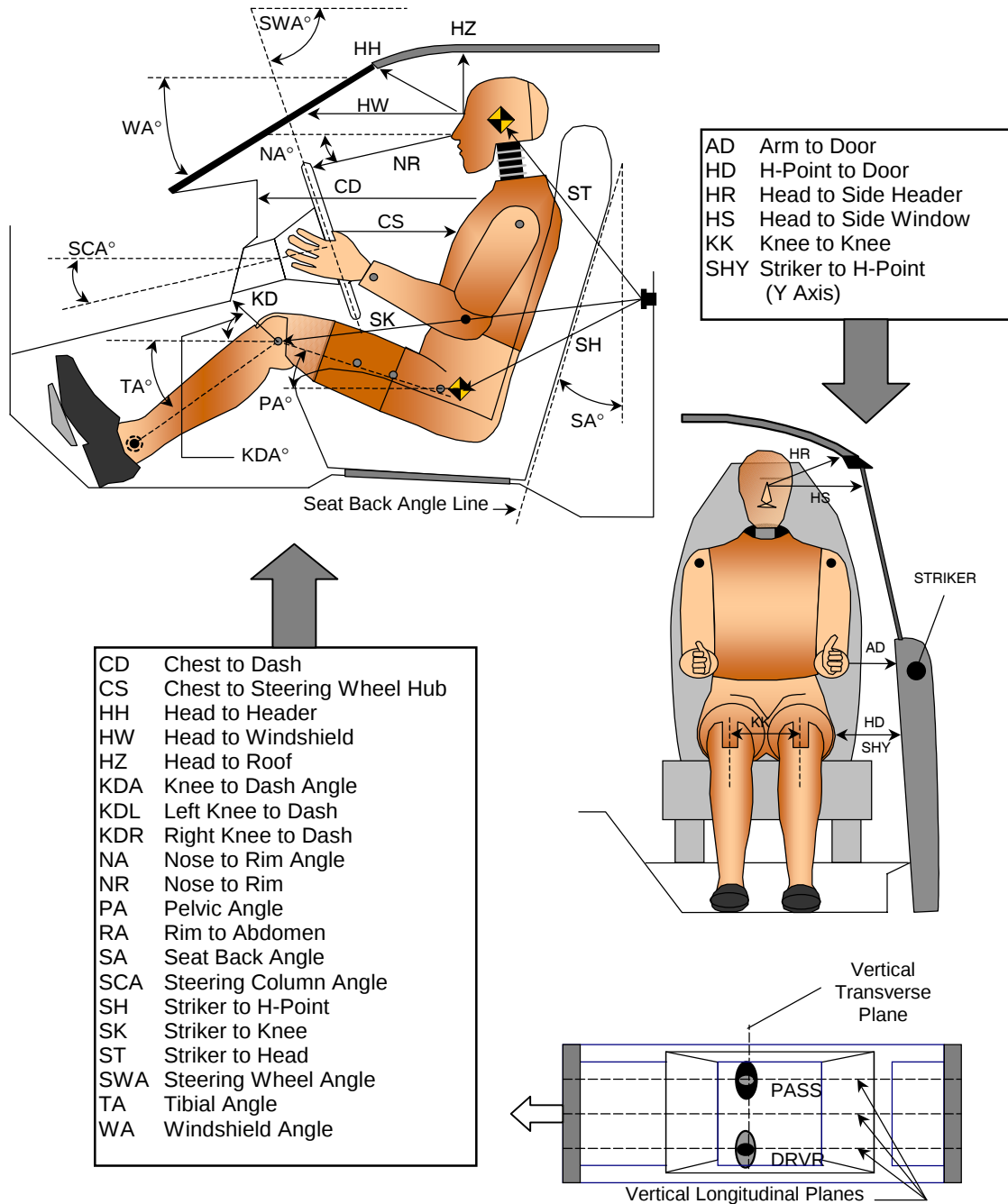
TEST DUMMY POSITION MEASUREMENTS

Code	Measurement Description	Driver		Passenger	
		Length (mm)	Angle (°)	Length (mm)	Angle (°)
WA	Windshield Angle		34		
SWA	Steering Wheel Angle		67		
SCA	Steering Column Angle		23		
SA	Seat Back Angle		15		15
HZ	Head to Roof (Z)	255	90	260	90
HH	Head to Header	411		402	
HW	Head to Windshield	665		670	
HR	Head to Side Header (Y)	319		330	
NR	Nose to Rim	430	14		
CD	Chest to Dash	575		610	
CS	Chest to Steering Hub	300			
RA	Rim to Abdomen	200			
KDL	Left Knee to Dash	150	23	119	
KDR	Right Knee to Dash	172		125	24
PA	Pelvic Angle		25		25
TA	Tibia Angle		32		50
KK	Knee to Knee (Y)	338		275	
ST	Striker to Head	596	3	629	2
SK	Striker to Knee	585	81	589	76
SH	Striker to H-Point	228	30	237	20
SHY	Striker to H-Point (Y)	248		248	
HS	Head to Side Window	348		363	
HD	H-Point to Door (Y)	151		193	
AD	Arm to Door (Y)	133		32	

DATA SHEET NO. 5...(CONTINUED) **DUMMY POSITIONING IN VEHICLE**

Test Vehicle: 2003 Honda Pilot 4WD SUV
 Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303
 Test Date: 6/26/02

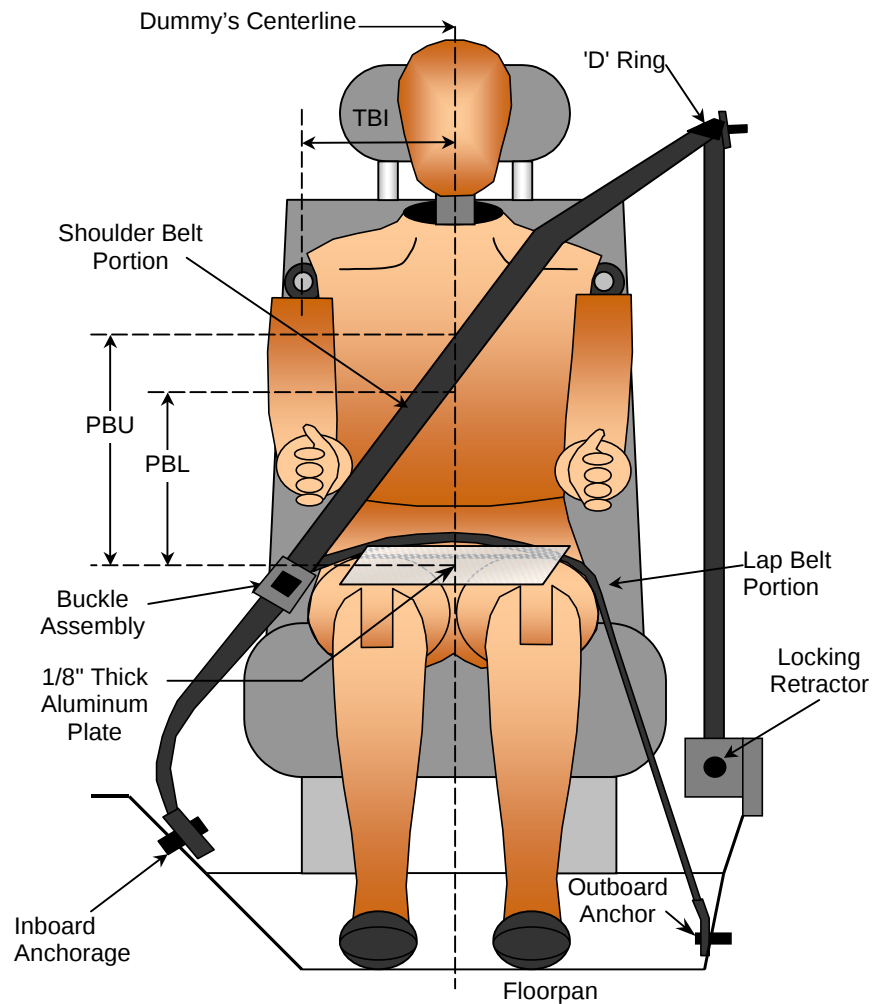


DUMMY MEASUREMENTS FOR FRONT SEAT OCCUPANTS

DATA SHEET NO. 6 **SEATBELT POSITIONING DATA**

Test Vehicle: 2003 Honda Pilot 4WD SUV
 Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303
 Test Date: 6/26/02



SEAT BELT POSITIONING MEASUREMENTS

Measurement Description	Units	Driver	Passenger
TBI - Dummy C/L to Lap/Shoulder Belt Intersect	mm	210	220
PBU - Top surface of reference to belt upper edge	mm	350	300
PBL - Top surface of reference to belt lower edge	mm	265	215
Lap Belt tension	Newton's	10	10
Shoulder Belt tension	N/A	Retractor	Retractor

DATA SHEET NO. 7 - VEHICLE ACCELEROMETER LOCATION AND DATA SUMMARY

Test Vehicle: 2003 Honda Pilot 4WD SUV

NHTSA No.: HO5303

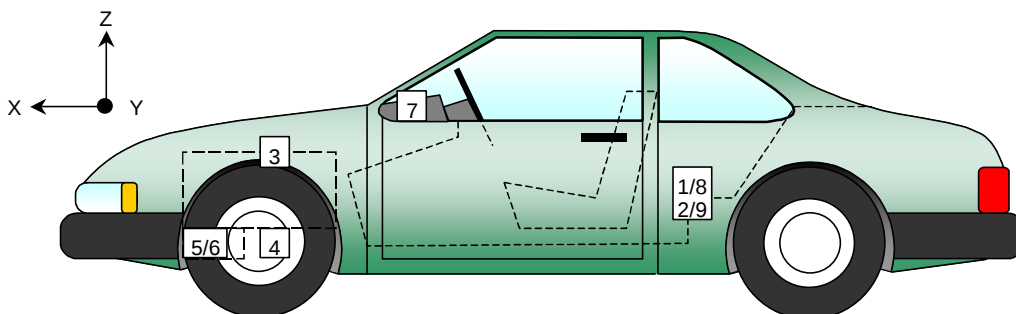
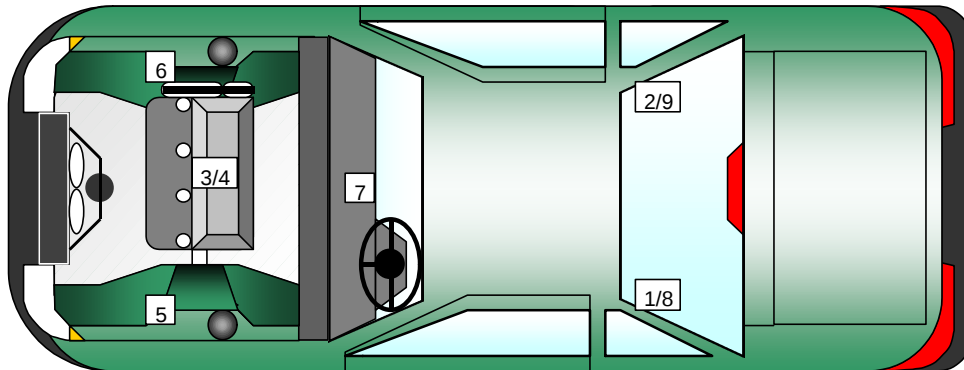
Test Program: 2002 NHTSA 35mph NCAP

Test Date: 6/26/02

VEHICLE ACCELEROMETER PEAK DATA AND PRE-TEST LOCATIONS

No.	Accelerometer Location	Measurements (mm)			Peak Values				
		X	Y	Z	Units	Max	Time	Min	Time
1	Left Rear X-Member	2140	-730	480	G's	1.9	156.8	-33.4	43.1
2	Right Rear X-Member	2140	730	480	G's	2.5	139.2	-31.8	47.7
3	Engine Top	4120	30	960	G's	44.1	53.8	-182.7	27.7
4	Engine Bottom	4010	310	200	G's	37.3	33.3	-161.3	26.1
5	Left Brake Caliper	3980	-840	280	G's	41.1	69.7	-59.8	44.1
6	Right Brake Caliper	3980	840	280	G's	46.5	69.0	-80.4	47.7
7	Instrument Panel	3240	0	1230	G's	7.1	85.8	-51.3	75.9
8	Left Rear X-Member (Z-Axis)	2050	-730	480	G's	10.4	38.4	-10.3	43.5
9	Right Rear X-Member (Z-Axis)	2050	730	480	G's	10.7	17.5	-9.9	55.8

Reference Planes: X=From Rear Surface of Vehicle, Y=Vehicle Centerline, Z=Ground Plane



DATA SHEET NO. 8 - HYBRID III ATD INJURY CRITERIA AND SENSOR DATA

Test Vehicle: 2003 Honda Pilot 4WD SUV

NHTSA No.: HO5303

Test Program: 2002 NHTSA 35mph NCAP

Test Date: 6/26/02

HEAD PRIMARY PEAK ACCELERATIONS

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Head CG	X	G's	14.3	210.5	-41.8	83.7	8.7	267.6	-48.3	80.8
Head CG	Y	G's	3.6	18.2	-9.3	89.5	3.3	274.8	-6.7	94.3
Head CG	Z	G's	18.1	51.5	-1.8	16.4	40.9	80.9	-2.1	12.8
Head CG Resultant	N/A	G's	43.3	83.7			63.1	80.9		

CHEST PRIMARY PEAK ACCELERATIONS

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Chest CG	X	G's	3.5	203.9	-38.7	63.0	1.7	290.4	-42.3	76.8
Chest CG	Y	G's	6.4	94.8	-3.5	62.9	5.0	72.5	-4.7	94.3
Chest CG	Z	G's	5.9	42.7	-13.1	97.6	10.1	83.8	-7.8	112.4
Chest CG Resultant	N/A	G's	39.0	63.0			42.3	78.1		

FEMUR PEAK FORCES

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Left Femur	Z	Newtons	727.2	43.9	-1352.8	59.7	203.3	27.1	-4046.2	47.9
Right Femur	Z	Newtons	946.2	47.8	-2501.4	71.7	222.1	247.9	-3663.7	59.3

SEAT BELT SENSOR PEAK VALUES

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Shoulder Belt Pullout	N/A	MM	64.2	83.9	-20.6	30.3	57.8	94.4	-18.7	30.5
Shoulder Belt Stretch	N/A	MM/CM	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0
Lap Belt Force	N/A	Newtons	0.0	0.0	0.0	0.0	4609.5	52.2	2.0	0.0
Shoulder Belt Force	N/A	Newtons	6137.4	74.1	-12.7	180.2	6268.4	62.1	-23.3	296.0

1.) Not used with pre-tensioner

2.) Driver channel failed, no data

PRIMARY HEAD INJURY CRITERIA (HIC)

Location	Driver				Passenger			
	HIC	T ¹	T ²	Avg G	HIC	T ¹	T ²	Avg G
Head CG Primary	270.6	63.8	99.7	35.5	465.9	60.7	96.6	44.1

PRIMARY CHEST CLIP (3MSEC)

Location	Driver			Passenger		
	CLIP	T ¹	T ²	CLIP	T ¹	T ²
Chest CG Primary	38.1	61.9	64.9	41.4	76.1	79.1

DATA SHEET NO. 8...(continued)

Test Vehicle: 2003 Honda Pilot 4WD SUV

NHTSA No.: HO5303

Test Program: 2002 NHTSA 35mph NCAP

Test Date: 6/26/02

PELVIC PEAK ACCELERATIONS

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Pelvis	X	G's	8.1	96.3	-56.4	57.0	4.6	128.8	-49.5	49.1
Pelvis	Y	G's	9.2	96.2	-7.2	58.9	4.6	60.3	-3.6	80.5
Pelvis	Z	G's	3.1	214.5	-26.4	61.6	3.4	251.8	-21.4	60.2
Pelvis Resultant	N/A	G's	60.8	61.7			52.1	49.4		

UPPER NECK PEAK FORCES AND MOMENTS

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Neck Force	X	Newtons	189.0	212.2	-668.7	124.5	139.7	237.1	-842.0	81.4
Neck Force	Y	Newtons	131.3	141.8	-204.2	95.3	190.7	72.5	-169.5	106.7
Neck Force	Z	Newtons	1188.2	52.0	-243.5	265.1	1840.8	79.8	-227.7	286.6
Neck Force Resultant	N/A	Newtons	1215.9	52.0			1984.0	80.8		
Neck Moment	X	N•m	6.3	141.4	-15.0	105.2	11.1	81.0	-7.6	115.0
Neck Moment	Y	N•m	56.3	122.8	-20.7	232.3	39.5	134.8	-32.9	80.6
Neck Moment	Z	N•m	8.0	85.5	-4.1	286.6	7.7	86.1	-5.1	134.2
Neck Moment Resultant	N/A	N•m	56.9	122.8			39.9	134.8		

FOOT PEAK ACCELERATIONS

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Left Foot Aft	X	G's	4.3	87.1	-19.8	28.3	17.8	68.9	-154.1	44.3
Left Foot Aft	Z	G's	7.1	58.2	-22.6	87.8	8.0	43.9	-22.8	56.1
Left Foot Fore	Z	G's	8.2	44.6	-23.2	75.5	29.0	45.3	-60.9	56.1
Right Foot Aft	X	G's	27.8	64.7	-90.0	48.3	15.8	82.1	-52.6	54.8
Right Foot Aft	Z	G's	2.7	296.6	-73.9	41.8	5.9	198.4	-34.5	46.7
Right Foot Fore	Z	G's	25.1	36.5	-122.4	45.3	25.4	77.5	-59.2	52.4

UPPER AND LOWER TIBIA PEAK FORCES AND MOMENTS

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Left Upper Moment	X	N•m	51.4	55.2	-16.1	230.0	7.8	270.6	-25.0	53.6
Left Upper Moment	Y	N•m	22.4	134.7	-62.8	50.6	164.0	44.1	-24.9	29.5
Right Upper Moment	X	N•m	79.0	48.1	-6.7	72.8	0.0	0.0	0.0	0.0
Right Upper Moment	Y	N•m	56.6	55.2	-86.9	46.6	181.4	52.5	-23.4	26.1
Left Lower Moment	X	N•m	12.0	31.0	-20.0	87.7	7.8	118.3	-14.4	46.2
Left Lower Moment	Y	N•m	28.1	86.1	-25.0	50.7	107.0	44.4	-6.6	30.5
Left Lower Force	Z	Newtons	146.3	149.8	-1320.3	87.8	175.9	44.2	-1222.9	84.1
Right Lower Moment	X	N•m	31.3	47.4	-91.8	58.2	25.9	58.1	-6.8	152.7
Right Lower Moment	Y	N•m	57.3	75.3	-60.7	49.0	66.4	58.9	-12.6	171.2
Right Lower Force	Z	Newtons	130.2	276.0	-2045.1	72.4	169.4	138.1	-1084.5	82.0

2.) Passenger channel failed, no data

DATA SHEET NO. 8...(continued)Test Vehicle: 2003 Honda Pilot 4WD SUVNHTSA No.: HO5303Test Program: 2002 NHTSA 35mph NCAPTest Date: 6/26/02**CHEST PEAK DISPLACEMENTS**

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Chest CG	X	MM	0.2	8.7	-33.8	79.5	0.3	1.5	-33.3	77.6

HEAD REDUNDANT PEAK ACCELERATIONS

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Head CG	X	G's	15.7	207.7	-41.6	83.5	8.4	275.3	-47.8	83.8
Head CG	Y	G's	3.4	19.0	-9.0	90.6	3.3	213.7	-6.5	94.4
Head CG	Z	G's	17.5	51.6	-1.4	17.5	40.9	79.3	-0.8	4.8
Head CG Resultant	N/A	G's	43.4	83.1			62.7	81.1		

CHEST REDUNDANT PEAK ACCELERATIONS

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Chest CG	X	G's	2.9	204.2	-39.0	63.1	1.9	288.9	-42.5	76.7
Chest CG	Y	G's	6.7	94.8	-3.4	62.3	5.4	72.4	-3.8	94.2
Chest CG	Z	G's	5.6	42.2	-13.7	98.2	10.1	83.6	-8.2	112.5
Chest CG Resultant	N/A	G's	39.3	63.1			42.6	76.7		

REDUNDANT HEAD INJURY CRITERIA (HIC)

Location	Driver				Passenger			
	HIC	T ¹	T ²	Avg G	HIC	T ¹	T ²	Avg G
Head CG Redundant	272.0	63.6	99.5	35.6	460.4	60.8	96.7	43.9

REDUNDANT CHEST CLIP (3MSEC)

Location	Driver			Passenger		
	CLIP	T ¹	T ²	CLIP	T ¹	T ²
Chest CG Redundant	38.5	62.1	65.1	41.6	76.0	79.0

DATA SHEET NO. 9
SEATBELT ASSESSMENT TEST DATA

Test Vehicle: 2003 Honda Pilot 4WD SUV
 Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303
 Test Date: 6/26/02

SEAT BELT PLACEMENT MEASUREMENTS

Measurement Description	Units	Driver	Passenger
TBI - Dummy C/L to Lap/Shoulder Belt Intersect	mm	210	220
PBU - Top surface of reference to belt upper edge	mm	350	300
PBL - Top surface of reference to belt lower edge	mm	265	215
Lap Belt tension	Newton's	10	10
Shoulder Belt tension	N/A	Retractor	Retractor

BELT LENGTH DATA

Measurement Description	Units	Driver	Passenger
Retractor reel to 'D' ring	mm	780	780
Shoulder belt length as measured on ATD	mm	920	940
Lap belt length as measured on ATD	mm	875	865
Remainder of belt on reel	mm	715	825
Total belt length for continuous webbing systems	mm	3290	3410

SHOULDER BELT SPOOL-OFF DATA

Measurement Description	Units	Driver	Passenger
As determined mechanically	mm	32.0	29.0
As determined electronically	mm	64.2	57.8
As determined by photography	mm	64.2	57.8

BELT STRETCH DATA

Measurement Description	Units	Driver	Passenger
Electronically between shoulder belt load cell and "D" ring	mm/cm	*	*
Mechanically	mm/cm	None	None

*Not used with shoulder belt pre-tensioner systems.

DATA SHEET NO. 10
SUMMARY OF FMVSS 212 DATA

Test Vehicle: 2003 Honda Pilot 4WD SUV
 Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303
 Test Date: 6/26/02

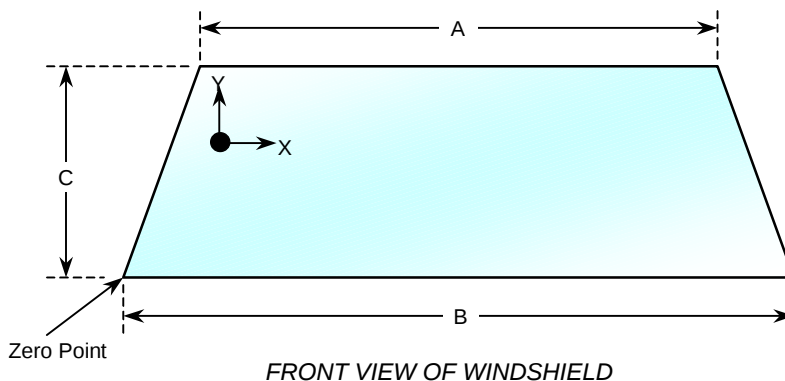
Windshield Mounting Details: Windshield glass is secured to the vehicle frame with a rubber type adhesive. No molding covers the windshield periphery at any point.

The standard requires that the posttest retention measurement be a minimum of 75 percent of the pretest total periphery measurement for vehicles not equipped with occupant passive restraints and 50 percent for each side of the windshield for vehicles that are equipped with occupant passive restraints.

Temperature of windshield molding during test: 21.1 °C

WINDSHIELD PERIPHERY MEASUREMENTS

Measurement	Pre-Test(mm)	Post-Test (mm)	% of Retention
Left Side	2308	2308	100
Right Side	2308	2308	100
Total	4615	4615	100



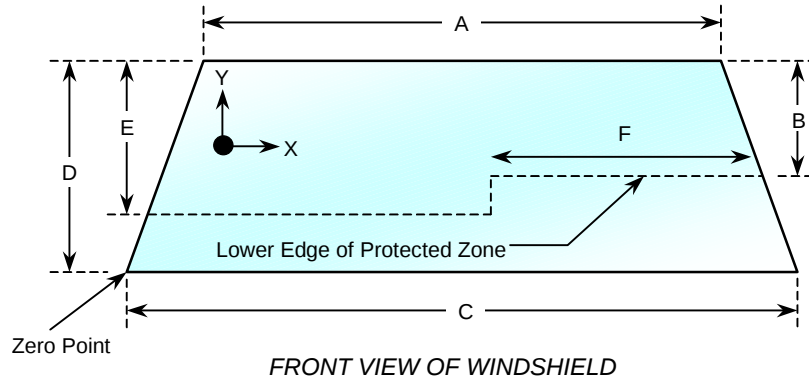
WINDSHIELD DIMENSIONS

Item	Units	Segment Length	Molding Width
A	mm	1305	18
B	mm	1590	0
C	mm	860	18

DATA SHEET NO. 11
WINDSHIELD ZONE INTRUSION FMVSS 219 DATA (PARTIAL)

Test Vehicle: 2003 Honda Pilot 4WD SUV
 Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303
 Test Date: 6/26/02



**WINDSHIELD AND
PROTECTED ZONE**

Item	Units	Value
A	mm	1305
B	mm	646
C	mm	1590
D	mm	860
E	mm	525
F	mm	565

AREA OF PROTECTED ZONE FAILURES

- A. Provide coordinates of the area that the protected zone was penetrated more than 0.25 in. by a vehicle component other than one that is normally in contact with the windshield.

X	Y
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A

- B. Provide coordinates of the area beneath the protected zone that the inner surface of the windshield was penetrated by a vehicle component.

X	Y
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A

DATA SHEET NO. 12
FMVSS 301 FUEL SYSTEM INTEGRITY POST IMPACT DATA

Test Vehicle: 2003 Honda Pilot 4WD SUV
Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303
Test Date: 6/26/02

Test Time: 2:01P.M.

Temperature at Time of Impact 31.7Deg. C

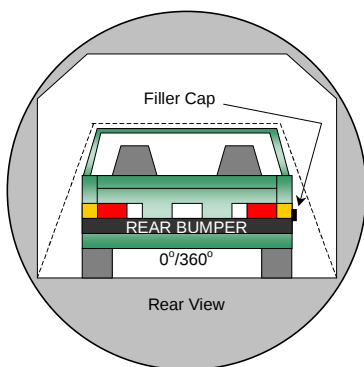
STODDARD SOLVENT SPILLAGE MEASUREMENTS

- A. From impact until vehicle motion ceases: 0.0 oz.
(Maximum Allowable = 1 ounce)
- B. For the 5 minute period after motion ceases: 0.0 oz.
(Maximum Allowable = 5 ounces)
- C. For the following 25 minutes: 0.0 oz.
(Maximum Allowable = 1 oz./minute)
- D. Spillage Location Details: No leakage occurred

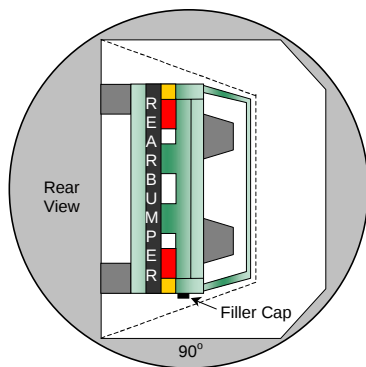
DATA SHEET NO. 13
FMVSS 301 STATIC ROLLOVER DATA

Test Vehicle: 2003 Honda Pilot 4WD SUV
 Test Program: 2002 NHTSA 35mph NCAP

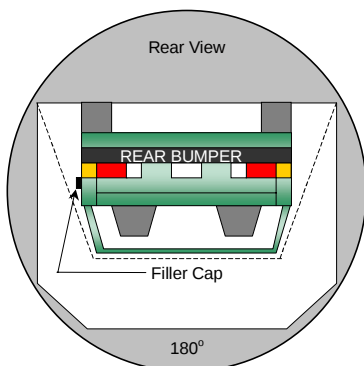
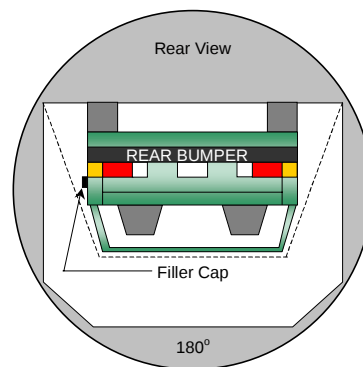
NHTSA No.: HO5303
 Test Date: 6/26/02



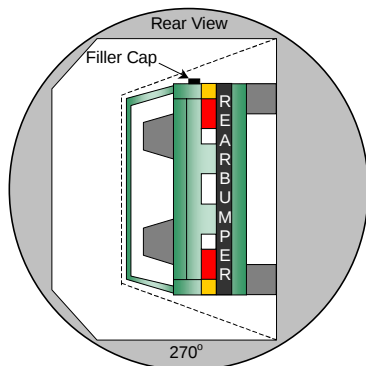
0° to 90°



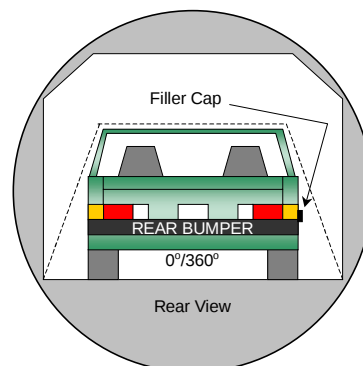
90° to 180°



180° to 270°



270° to 360°



1. The specified fixture rollover rate for each 90° of rotation is 60 to 120 seconds.
2. The position hold time at each position is 300 seconds (minimum).
3. No solvent leakage occurred during rollover.

Test Phase	Rotation Time (sec.)	Hold Time (sec.)	Spillage (oz.)
0° to 90°	80	300	0
90° to 180°	82	300	0
180° to 270°	78	300	0
270° to 360°	80	300	0

DATA SHEET NO. 14
VEHICLE MEASUREMENTS

Test Vehicle: 2003 Honda Pilot 4WD SUV
Test Program: 2002 NHTSA 35mph NCAP

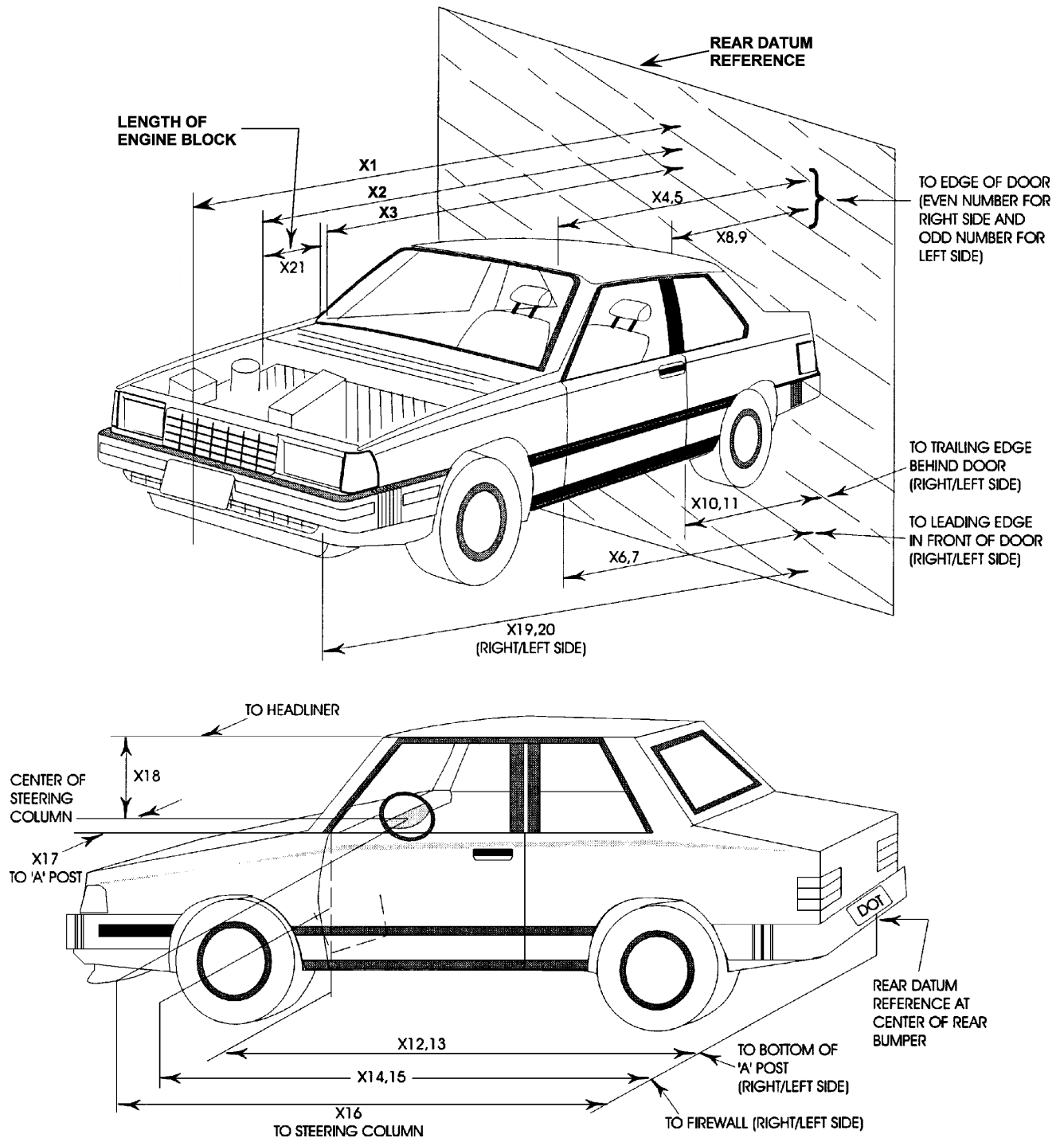
NHTSA No.: HO5303
Test Date: 6/26/02

No.	Measurement Description	Units	Pre-Test	Post-Test	Difference
1	Total length of vehicle at centerline	mm	4755	4180	-575
2	RSOV to front of engine	mm	4245	3881	-364
3	RSOV to firewall centerline	mm	3853	3789	-64
4	RSOV to leading edge of right door	mm	3324	3344	20
5	RSOV to leading edge of left door	mm	3331	3331	0
6	RSOV to lower leading edge of right door	mm	3292	3289	-3
7	RSOV to lower leading edge of left door	mm	3295	3282	-13
8	RSOV to upper trailing edge of right door	mm	2276	2293	17
9	RSOV to upper trailing edge of left door	mm	2285	2287	2
10	RSOV to lower trailing edge of right door	mm	2291	2286	-5
11	RSOV to lower trailing edge of left door	mm	2293	2282	-11
12	RSOV to bottom of right 'A' pillar	mm	3293	3307	14
13	RSOV to bottom of left 'A' pillar	mm	3294	3296	2
14	RSOV to firewall on right side	mm	3886	3816	-70
15	RSOV to firewall of left side	mm	3889	3841	-48
16	RSOV to steering column	mm	2942	2967	25
17	Center of steering column to left 'A' pillar	mm	409	405	-4
18	Center of steering column to headlining	mm	485	440	-45
19	RSOV to right side of front bumper	mm	4529	4142	-387
20	RSOV to left side of front bumper	mm	4529	4181	-348
21	Length of engine block	mm	370	370	0
RD	RSOV to right side of dash panel	mm	3142	3159	17
CD	RSOV to center of dash panel	mm	3181	3178	-3
LD	RSOV to left side of dash panel	mm	3146	3155	9

DATA SHEET NO. 14...(CONTINUED)
VEHICLE MEASUREMENTS

Test Vehicle: 2003 Honda Pilot 4WD SUV
Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303
Test Date: 6/26/02



DATA SHEET NO. 15
CAMERA LOCATIONS

Test Vehicle: 2003 Honda Pilot 4WD SUV
Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303
Test Date: 6/26/02

No.	Camera View	Location (mm)			Angle (Deg.)	Film Plane to Head	Lens (mm)	Speed (fps)
		X	Y	Z				
1	Right Side, Real Time	3454	10973	1245	0	1651	Zoom	24
2	Left Side, No. 1	2000	-8250	1270	0	7846	13	Failed
3	Left Side, No. 2	1060	-6370	1630	-1	6090	25	1010
4	Left Side, No. 3	6500	-10580	4640	-16	11474	65	990
5	Left Side, No. 4	1460	-8250	3340	-17	8119	19	990
6	Left Side, No. 5	1460	-8250	2970	-16	8039	19	890
7	Right Side, No. 1	2400	8150	1590	-2	7743	19	N/A
8	Right Side, No. 2	1000	7180	1590	0	6894	35	1020
9	Right Side, No. 3	7860	8900	2800	-9	10250	80	970
10	Right Side, No. 4	2750	9600	1520	0	9202	50	Failed
11	Overhead Overall	250	0	4460	-86	N/A	13	1030
12	Front View, Driver	2970	-380	1330	-36	N/A	12	890
13	Front View, Passenger	2970	380	1330	-37	N/A	13	1070
14	Pit Camera, Engine	650	0	-1360	-90	N/A	10	1120
15	Pit Camera, Fuel Tank	3760	0	-1820	-55	N/A	10	940
16	Driver Belt	3120	-300	1450	-5	N/A	13	880
17	Passenger Belt	3120	230	1450	-5	N/A	13	870
18	Left Side Extra	N/A	N/A	N/A	N/A	N/A	N/A	N/A

X - Barrier Face Y - Monorail Centerline Z - Ground

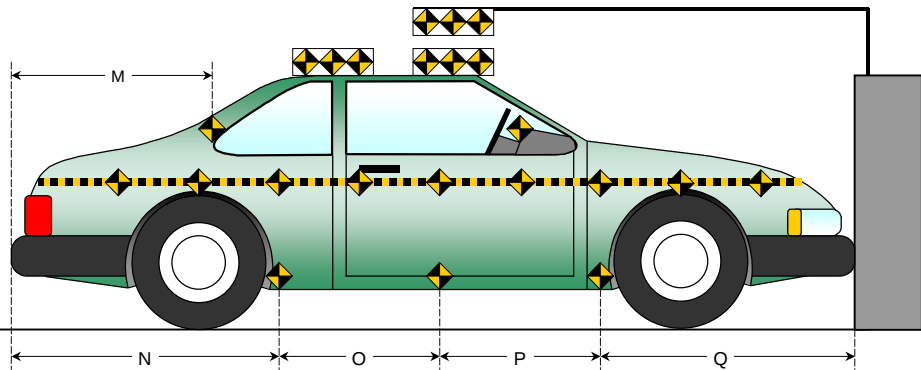
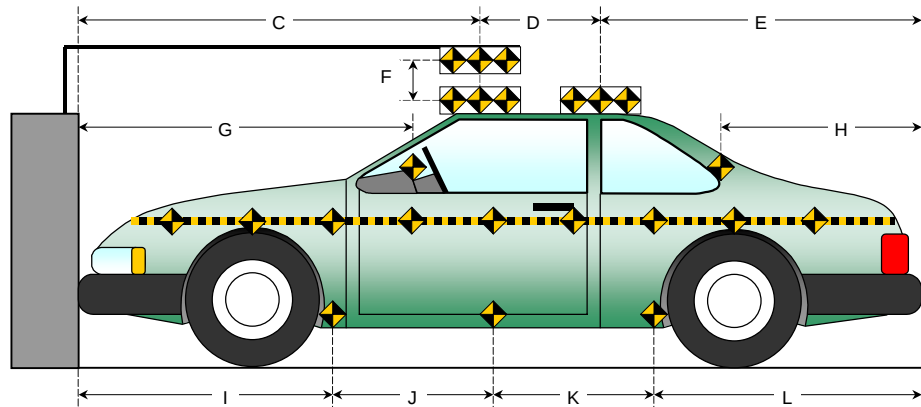
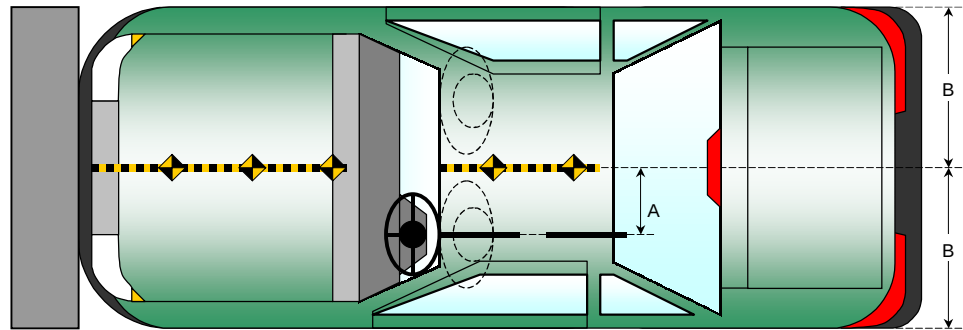
DATA SHEET NO. 16
PHOTOGRAPHIC REFERENCE TARGET LOCATIONS

Test Vehicle: 2003 Honda Pilot 4WD SUV
 Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303
 Test Date: 6/26/02

All Dimensions
 in mm

Item	Value
A	465
B	975
C	2206
D	610
E	1950
F	155
G	1644
H	1283
I	1505
J	821
K	821
L	1598
M	1279
N	1600
O	823
P	823
Q	1505



DATA SHEET NO. 17
VEHICLE INTRUSION MEASUREMENTS

Test Vehicle: 2003 Honda Pilot 4WD SUV
 Test Program: 2002 NHTSA 35mph NCAP

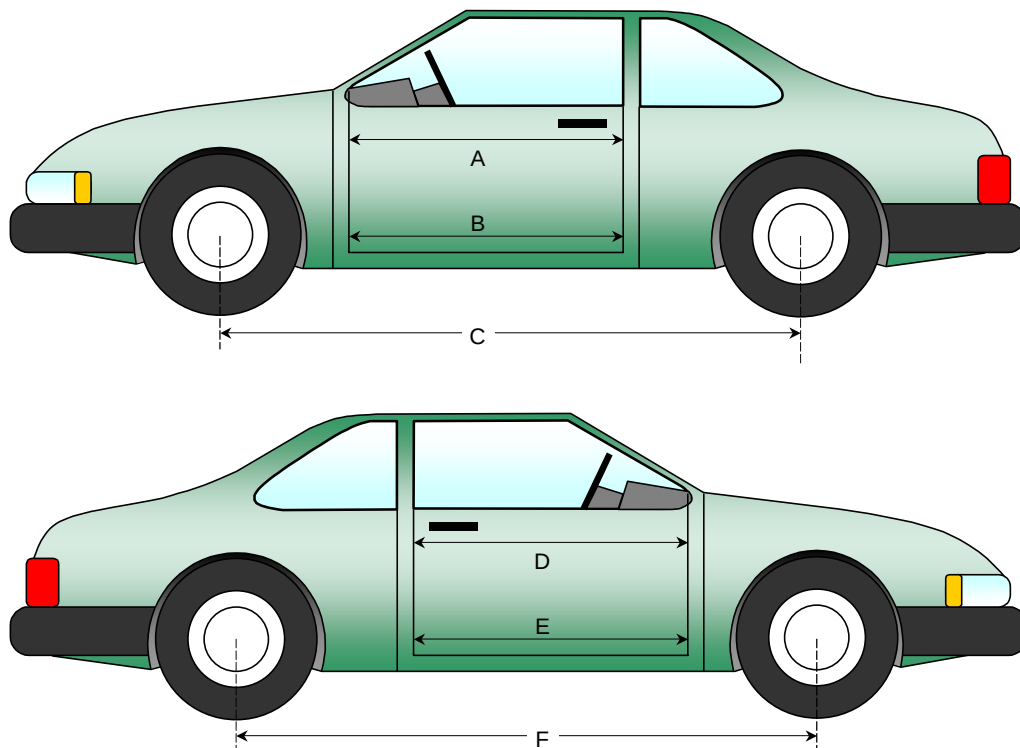
NHTSA No.: HO5303
 Test Date: 6/26/02

DOOR OPENING WIDTH

Item	Description	Units	Pre-Test	Post-Test	Difference
A	Left Side Upper	mm	936	936	0
B	Left Side Lower	mm	887	888	1
D	Right Side Upper	mm	937	937	0
E	Right Side Lower	mm	883	890	7

WHEELBASE MEASUREMENTS

Item	Description	Units	Pre-Test	Post-Test	Difference
C	Left Side Wheel base	mm	2703	2638	-65
F	Right Side Wheel base	mm	2703	2559	-144



DATA SHEET NO. 17...(CONTINUED)
VEHICLE INTRUSION MEASUREMENTS

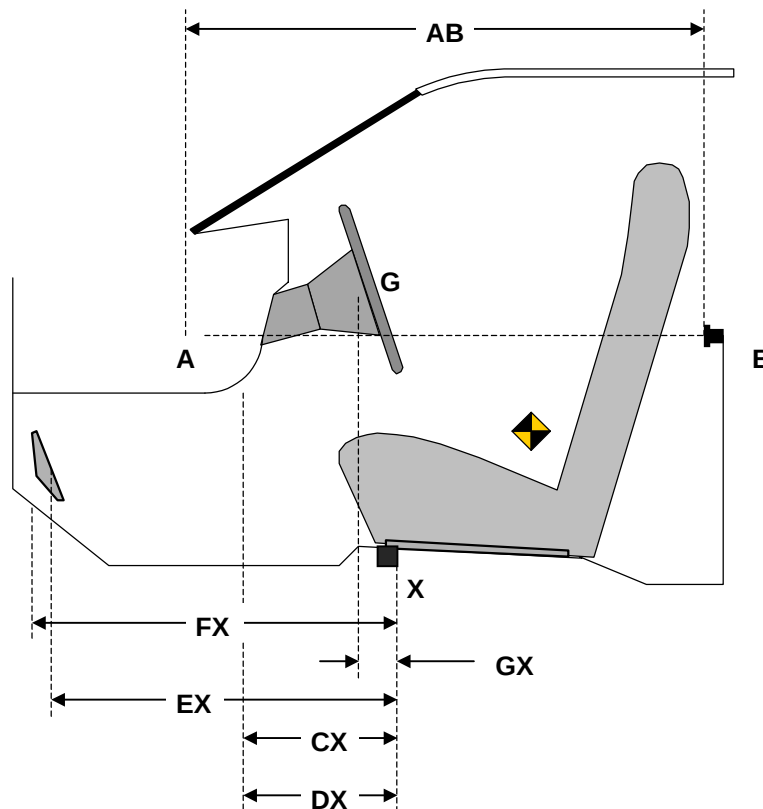
Test Vehicle: 2003 Honda Pilot 4WD SUV
 Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303
 Test Date: 6/26/02

DRIVER COMPARTMENT INTRUSION

Item	Description	Units	Pre-Test	Post-Test	Difference
AB	Door Opening (Inside window jam)	mm	936	936	0
CX	Left Knee Bolster to X	mm	325	335	10
DX	Right Knee Bolster to X	mm	320	326	6
EX	Brake Pedal to X	mm	569	527	-42
FX	Foot Rest to X	mm	509	611	102
GX	Center of Steering Wheel Hub to X	mm	80	115	35

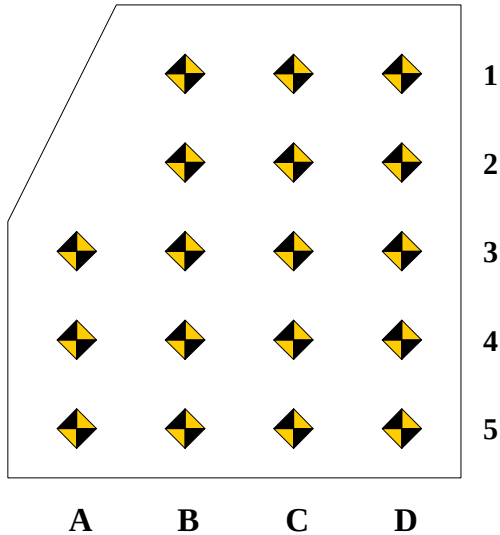
X = Left Front Seat Outboard Anchor Bolt Head



DATA SHEET NO. 17...(CONTINUED)
VEHICLE INTRUSION MEASUREMENTS

Test Vehicle: 2003 Honda Pilot 4WD SUV
 Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303
 Test Date: 6/26/02



Measurement reference point for X and Z-axis is the forward outboard seat mounting bolt.

Columns A through D are evenly spaced.

Rows 1 and 2 are on the toe kick portion of the floor pan. Rows 3, 4 and 5 are located on the most level portion of the floor pan.

Row 3 will be at the intersection of the toe kick and the level sections of the floor pan.

DRIVER FLOOR PAN X-AXIS

	Pre-Test				Post-Test				Difference			
	A	B	C	D	A	B	C	D	A	B	C	D
1		637	664	660		627	634	619		-10	-30	-41
2		547	574	573		560	561	535		13	-13	-38
3	467	447	474	471	462	469	465	461	-5	22	-9	-10
4	372	347	373	372	367	369	366	362	-5	22	-7	-10
5	273	274	273	273	267	269	267	267	-6	-5	-6	-6

DRIVER FLOOR PAN Z-AXIS

	Pre-Test				Post-Test				Difference			
	A	B	C	D	A	B	C	D	A	B	C	D
1		33	37	43		49	53	56		16	16	13
2		-13	-9	-7		-14	-10	5		-1	-1	12
3	-9	-17	-12	-13	-13	-22	-13	-21	-4	-5	-1	-8
4	-10	-13	-12	-11	-16	-21	-18	-25	-6	-8	-6	-14
5	-10	-9	-5	-12	-9	-26	-12	-26	1	-17	-7	-14

DATA SHEET NO. 17...(CONTINUED)
VEHICLE INTRUSION MEASUREMENTS

Test Vehicle: 2003 Honda Pilot 4WD SUV
 Test Program: 2002 NHTSA 35mph NCAP

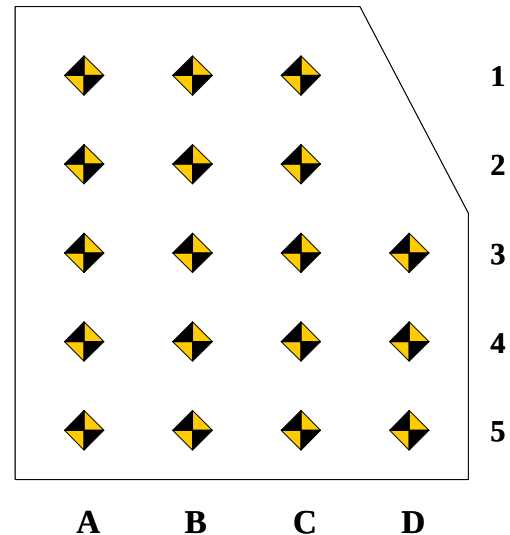
NHTSA No.: HO5303
 Test Date: 6/26/02

Measurement reference point for X and Z axis is the forward outboard seat mounting bolt.

Columns A through D are evenly spaced.

Rows 1 and 2 are on the toe kick portion of the floor pan. Rows 3,4, and 5 are located on the most level portion of the floor pan.

Row 3 will be at the intersection of the toe kick and the level sections of the floor pan.



PASSENGER FLOOR PAN X-AXIS

	Pre-Test				Post-Test				Difference			
	A	B	C	D	A	B	C	D	A	B	C	D
1	641	632	639		N/A	N/A	N/A		N/A	N/A	N/A	
2	556	546	552		N/A	N/A	N/A		N/A	N/A	N/A	
3	458	458	464	463	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4	356	357	364	362	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5	257	257	264	261	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

N/A = COULD NOT MEASURE DUE TO AMOUNT OF DAMAGE

PASSENGER FLOOR PAN Z-AXIS

	Pre-Test				Post-Test				Difference			
	A	B	C	D	A	B	C	D	A	B	C	D
1	23	72	71		N/A	N/A	N/A		N/A	N/A	N/A	
2	-14	22	22		N/A	N/A	N/A		N/A	N/A	N/A	
3	-15	-12	-23	-24	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4	-17	-18	-17	-16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5	22	-16	-18	-21	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

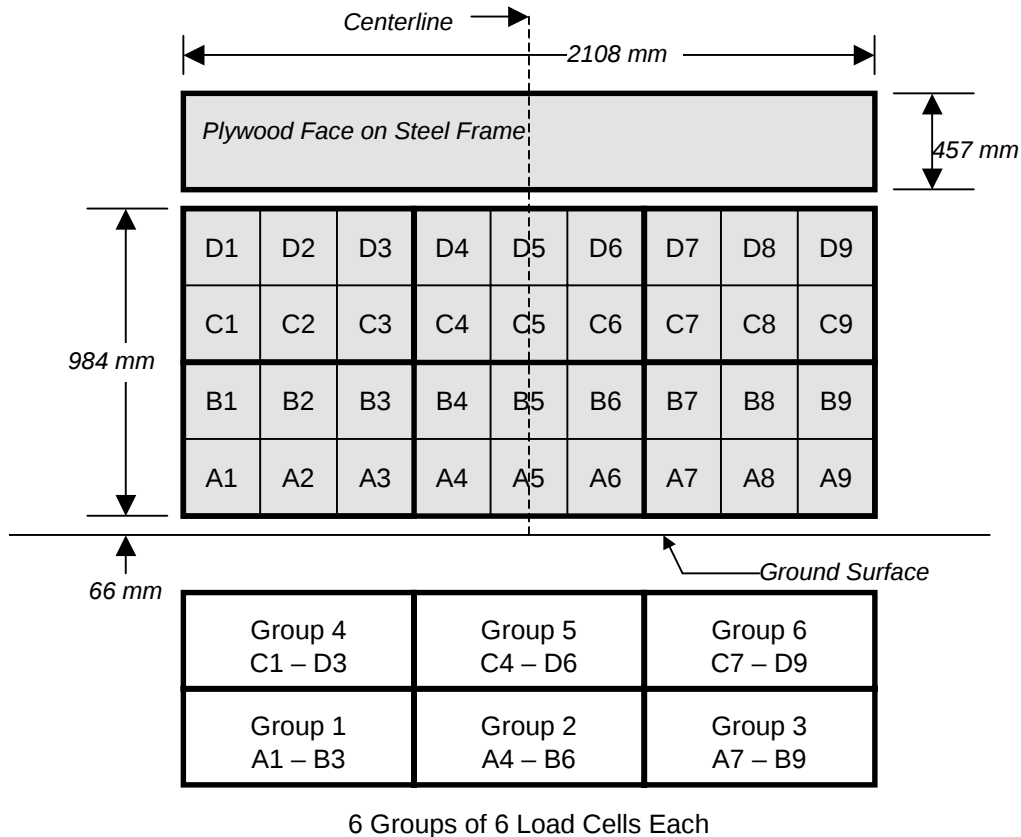
N/A = COULD NOT MEASURE DUE TO AMOUNT OF DAMAGE

DATA SHEET NO. 18
FIXED BARRIER LOAD CELL LOCATIONS

Test Vehicle: 2003 Honda Pilot 4WD SUV
 Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303
 Test Date: 6/26/02

36 Load Cell Rigid Barrier (NHTSA Standard)
Load Cell Locations on Fixed Barrier



The Data is presented in Appendix C with the following requirements:

- 1.) Data from 36 individual load cells
- 2.) Sum data from 6 groupings shown above (6 cells/group)
- 3.) Total or sum of all 36 individual load cells
- 4.) Sum of all 36 individual load cells vs. vehicle dynamic crush

DATA SHEET NO. 19
ACCIDENT INVESTIGATION DIVISION DATA

Test Vehicle: 2003 Honda Pilot 4WD SUV
 Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303
 Test Date: 6/26/02

VEHICLE INFORMATION

VIN: 2HKYF18513H506726
 Vehicle Size Category: 4 Door SUV

Wheel base (mm): 2703
 Test Weight (kg): 2174

ACCELEROMETER DATA

Accelerometer Location: Left rear floor pan
 Cal. Procedure/Interval: 6 months / drop test
 Integration Algorithm: NHTSA Standard
 Impact Velocity (km/h): 55.91
 Velocity Change (km/h): 64.54

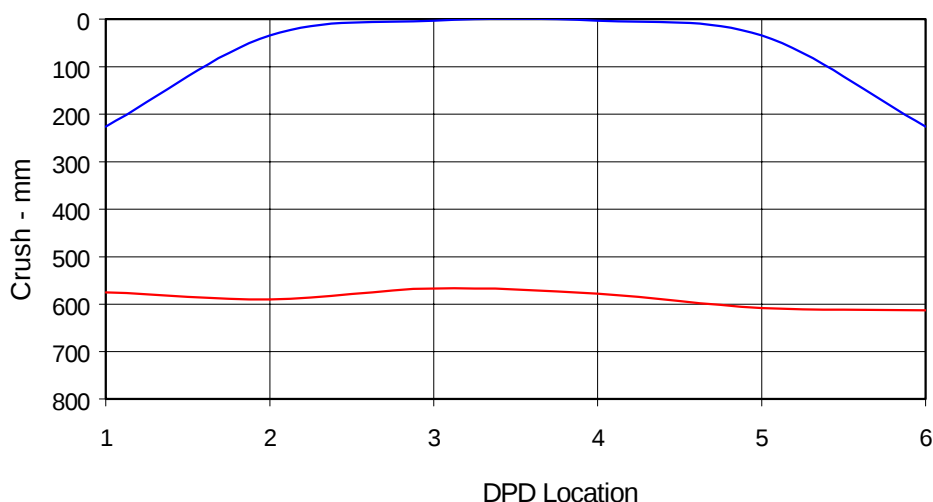
Linearity: Good

Time of Separation (msec): 77.4

CRUSH PROFILE

Collision Deformation Classification: 12FDEW6 Midpoint of Damage: Vehicle Centerline
 Damage Region Length (mm): 1593 Impact Mode: Full Frontal

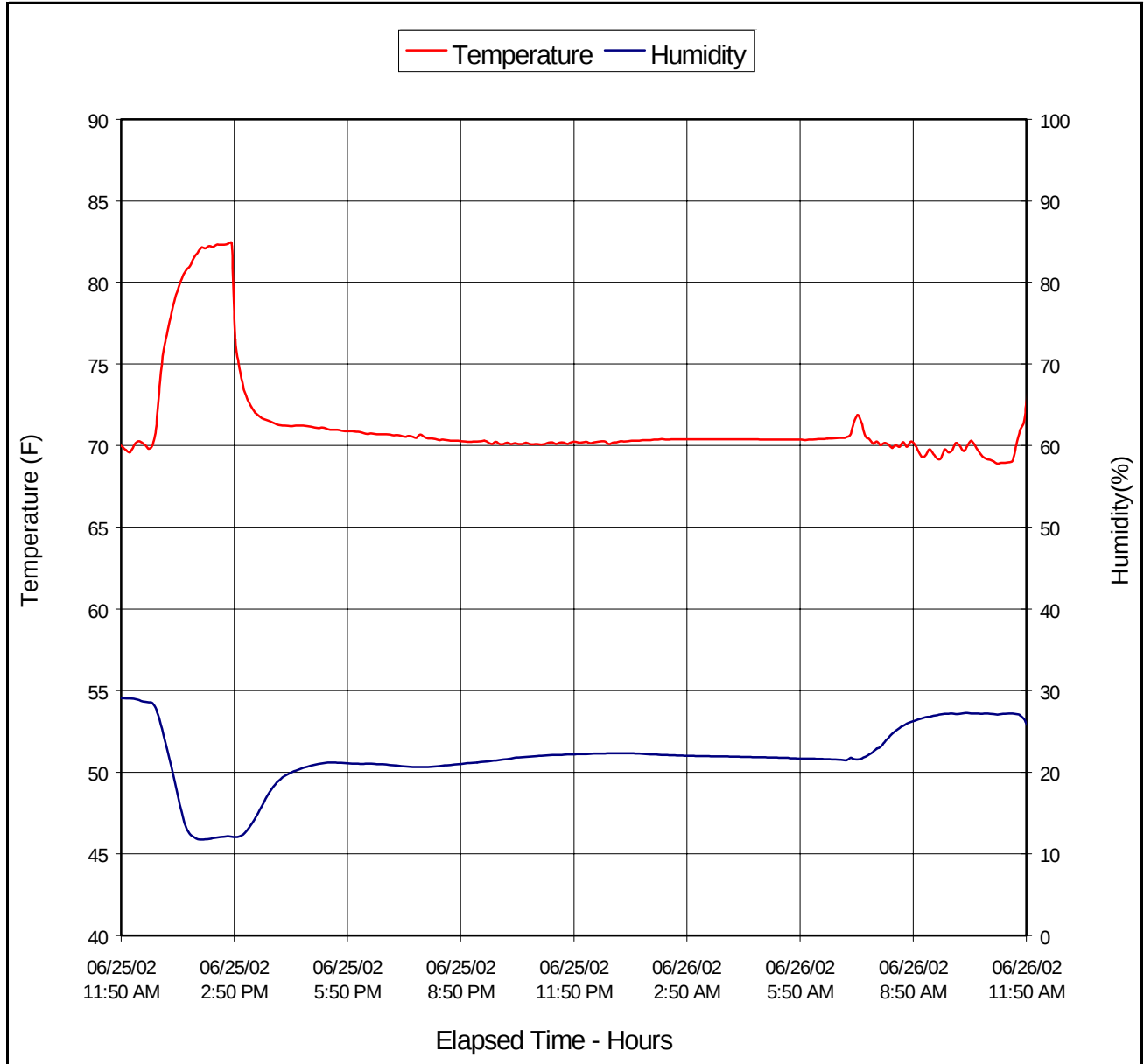
No.	Measurement Description	Units	Pre-Test	Post-Test	Difference
C1	Crush zone 1 at left side	mm	226	575	-349
C2	Crush zone 2 on left side	mm	34	590	-556
C3	Crush zone 3 on left side	mm	3	567	-564
C4	Crush zone 4 on right side	mm	3	578	-575
C5	Crush zone 5 on right side	mm	34	608	-574
C6	Crush zone 6 at right side	mm	226	613	-387



DATA SHEET NO. 20
DUMMY/VEHICLE TEMPERATURE STABILIZATION

Test Vehicle: 2003 Honda Pilot 4WD SUV
Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303
Test Date: 6/26/02



APPENDIX A

PHOTOGRAPHS

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Figure A-1: Right Front, as Received



Figure A-2: Left Rear, as Received

MFD. BY HONDA OF CANADA MFG., 05/02
A DIVISION OF HONDA CANADA INC. CANADA
GVWR 5950LBS GAWR F 2865LBS R 3155LBS
THIS VEHICLE CONFORMS TO ALL APPLICABLE
FEDERAL MOTOR VEHICLE SAFETY,
AND THEFT PREVENTION STANDARDS IN EFFECT
ON THE DATE OF MANUFACTURE SHOWN ABOVE.
V.I.N. **2HKYF18513H506726**



MPV

Figure A-3: Vehicle Certification Label

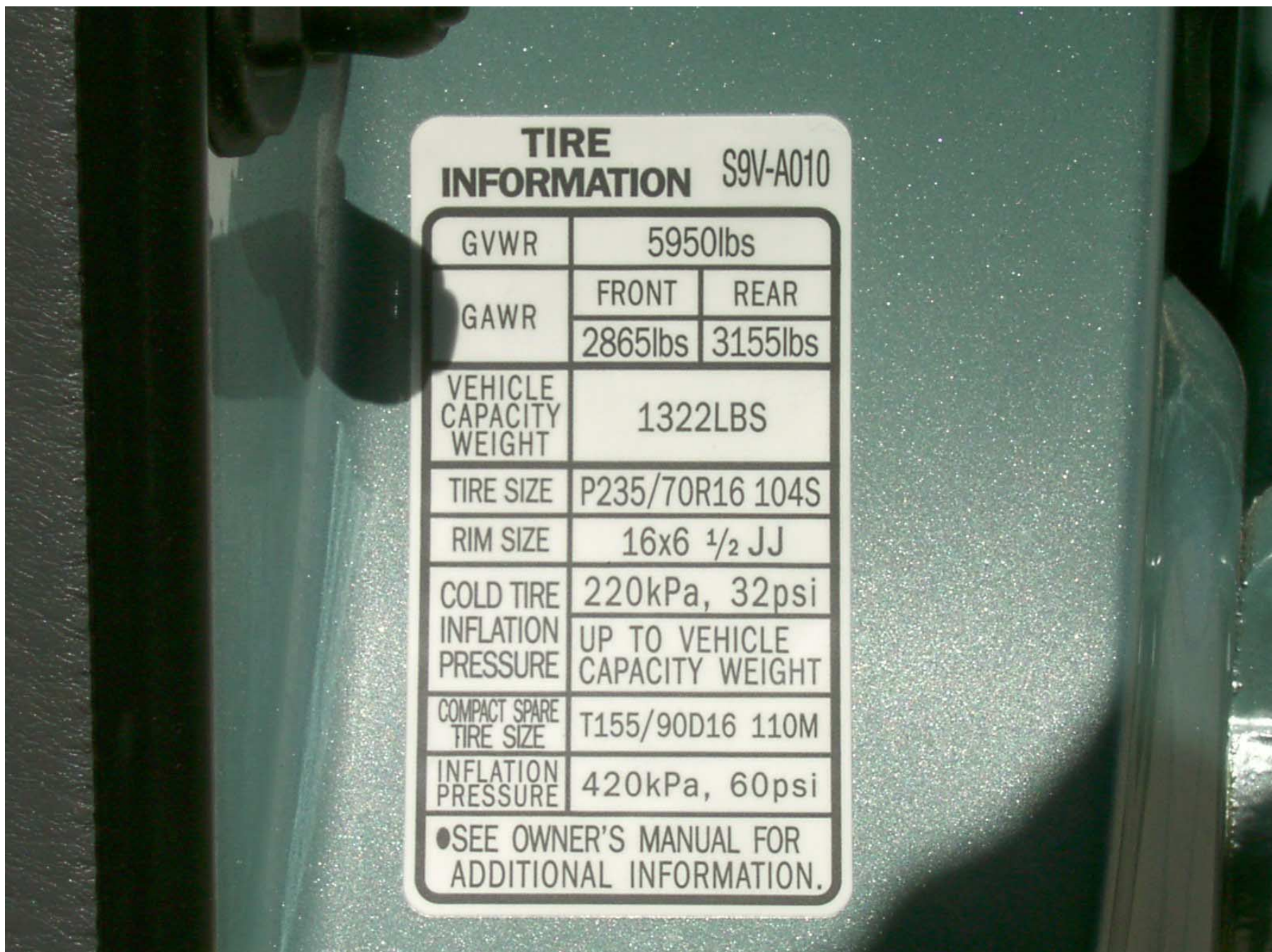


Figure A-4: Vehicle Tire Label



Figure A-5: Front View, Pre-Test

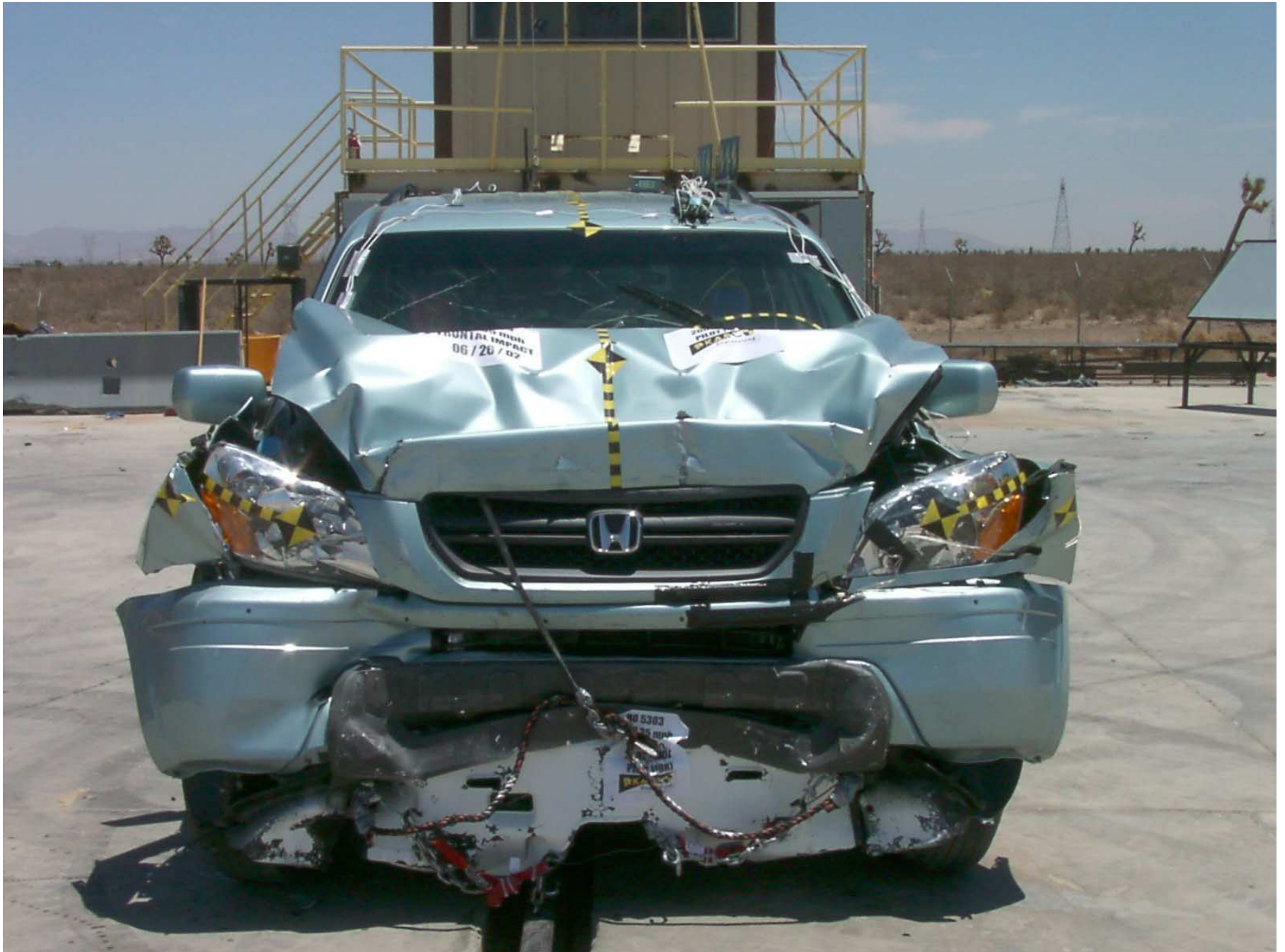


Figure A-6: Front View, Post-Test



Figure A-7: Left Side View, Pre-Test



Figure A-8: Left Side View, Post-Test



Figure A-9: Right Side View, Pre-Test



Figure A-10: Right Side View, Post-Test



Figure A-11: Right Front View, Pre-Test



Figure A-12: Right Front View, Post-Test



Figure A-13: Left Rear View, Pre-Test



Figure A-14: Left Rear View, Post-Test

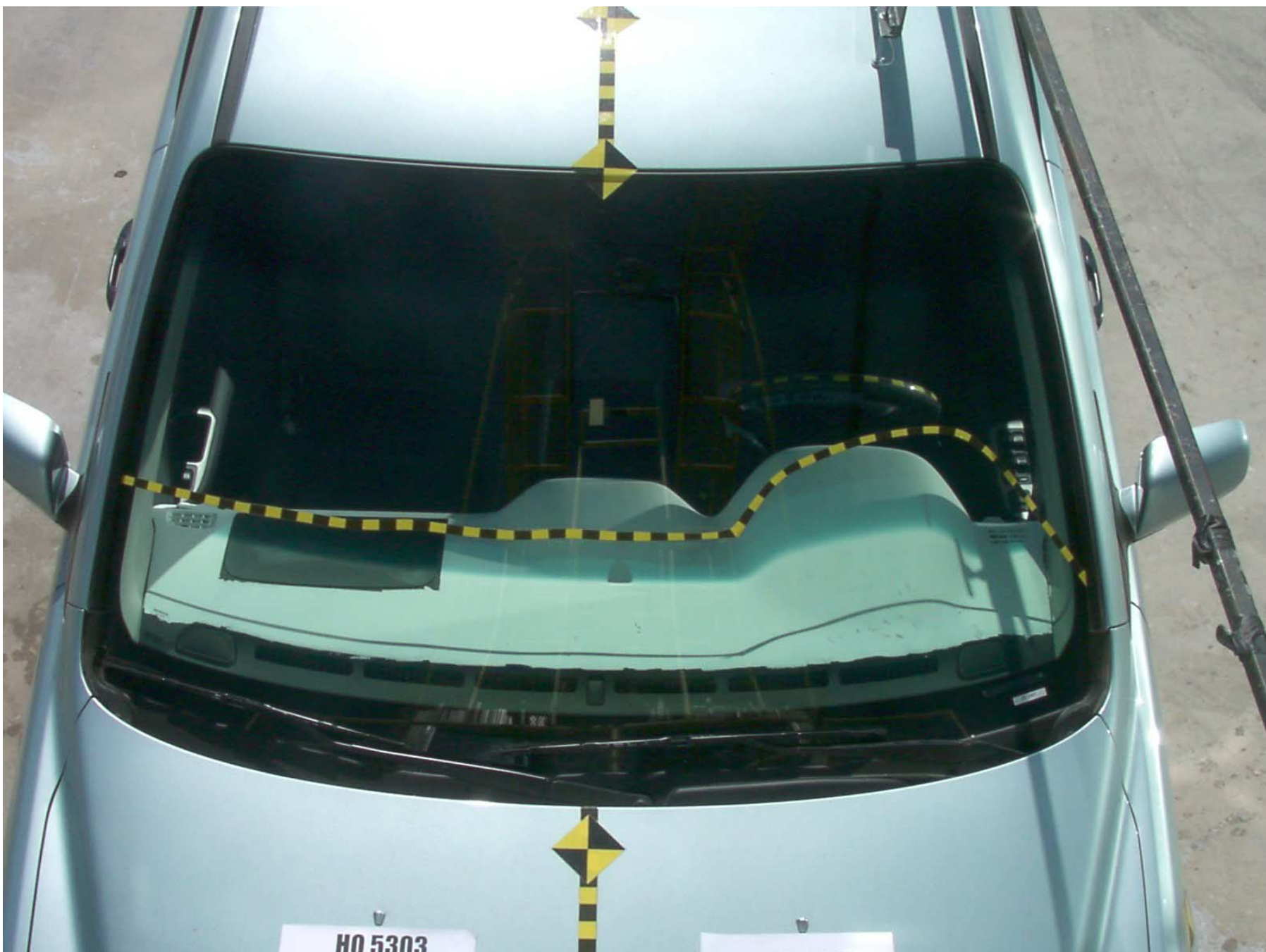


Figure A-15: Windshield, Pre-Test



Figure A-16: Windshield, Post-Test



Figure A-17: Engine Compartment, Pre-Test

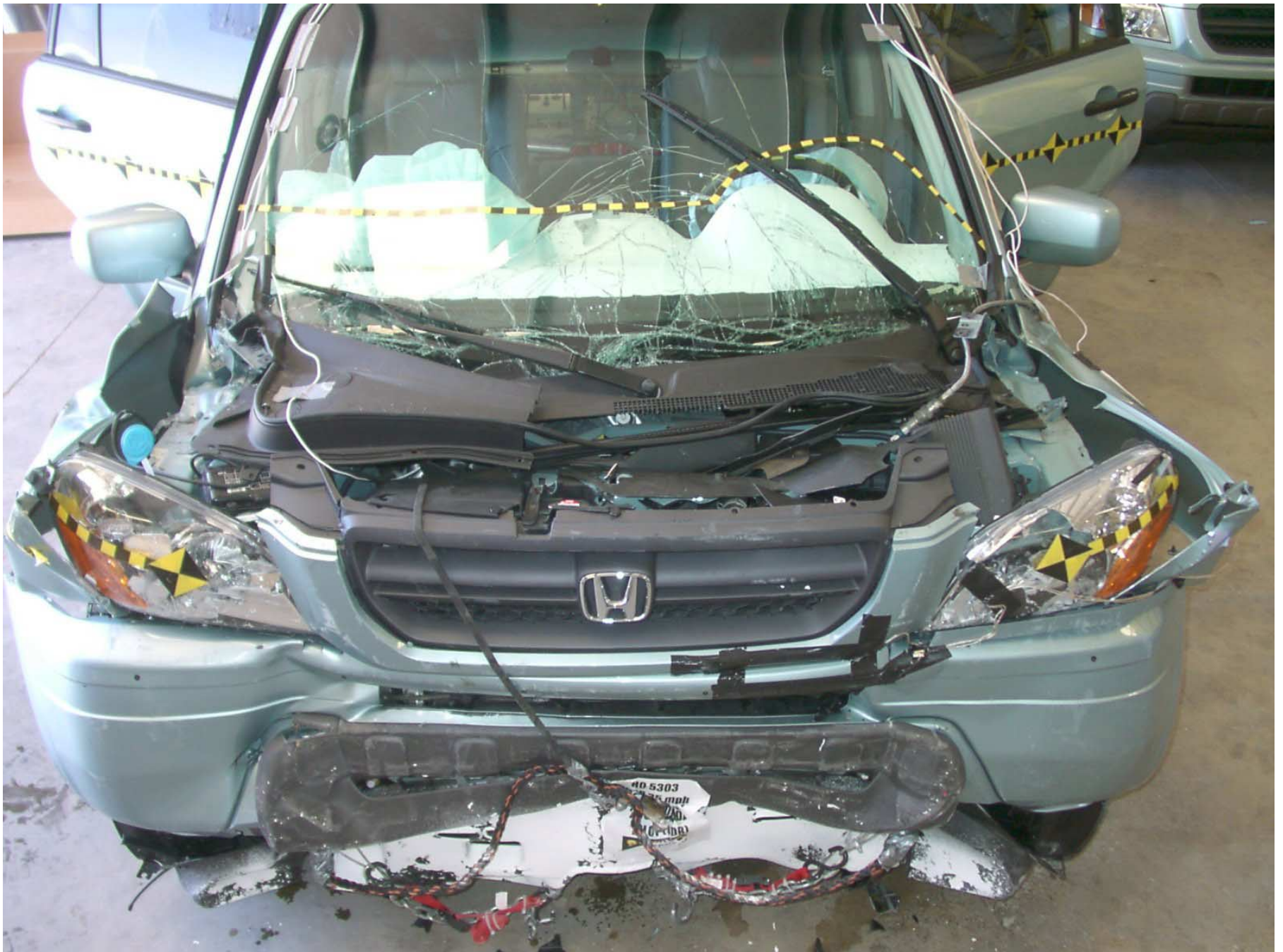


Figure A-18: Engine Compartment, Post-Test



Figure A-19: Fuel Cap, Pre-test



Figure A-20: Fuel Cap, Post-Test

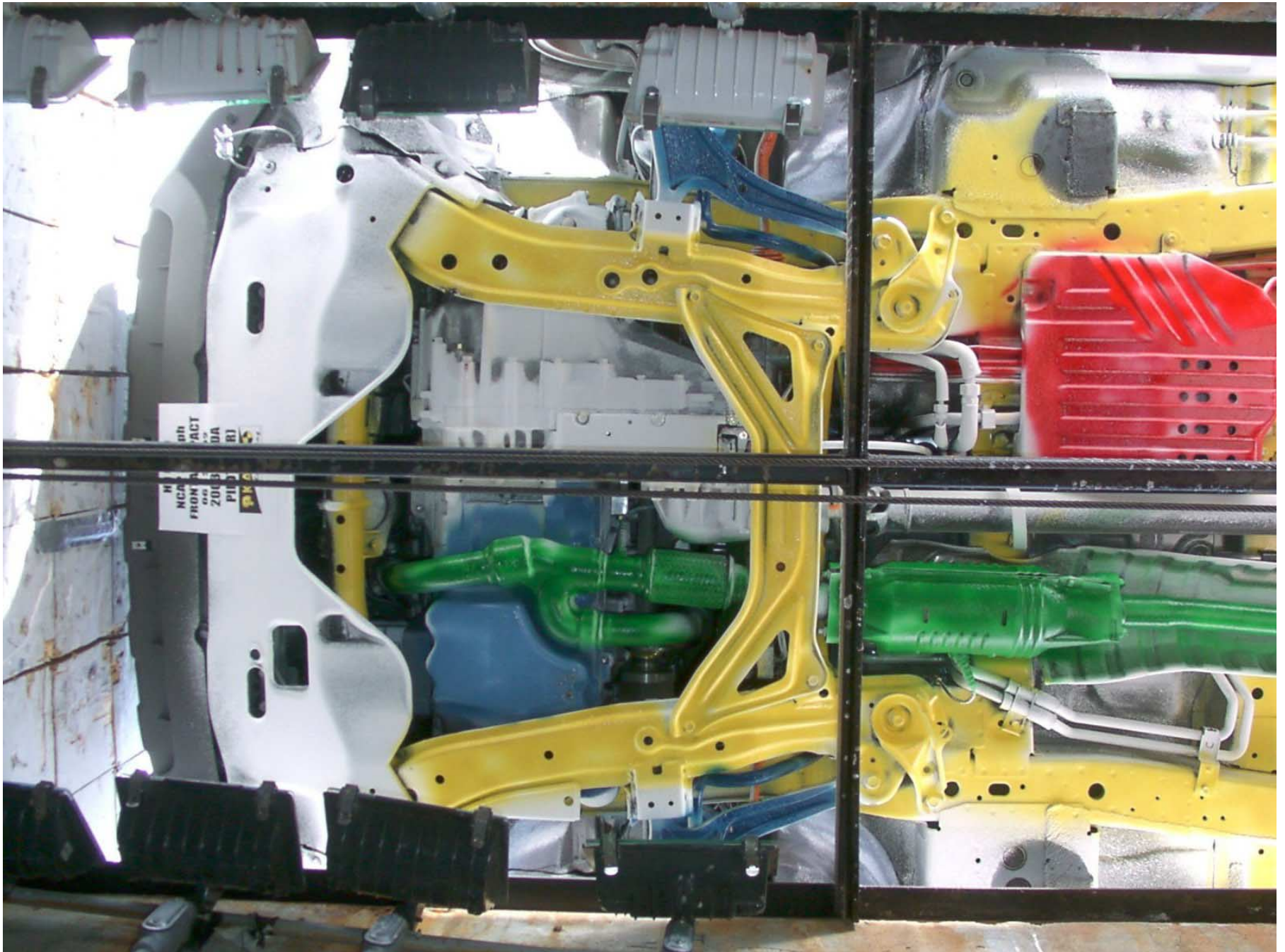


Figure A-21: Front Underside, Pre-Test

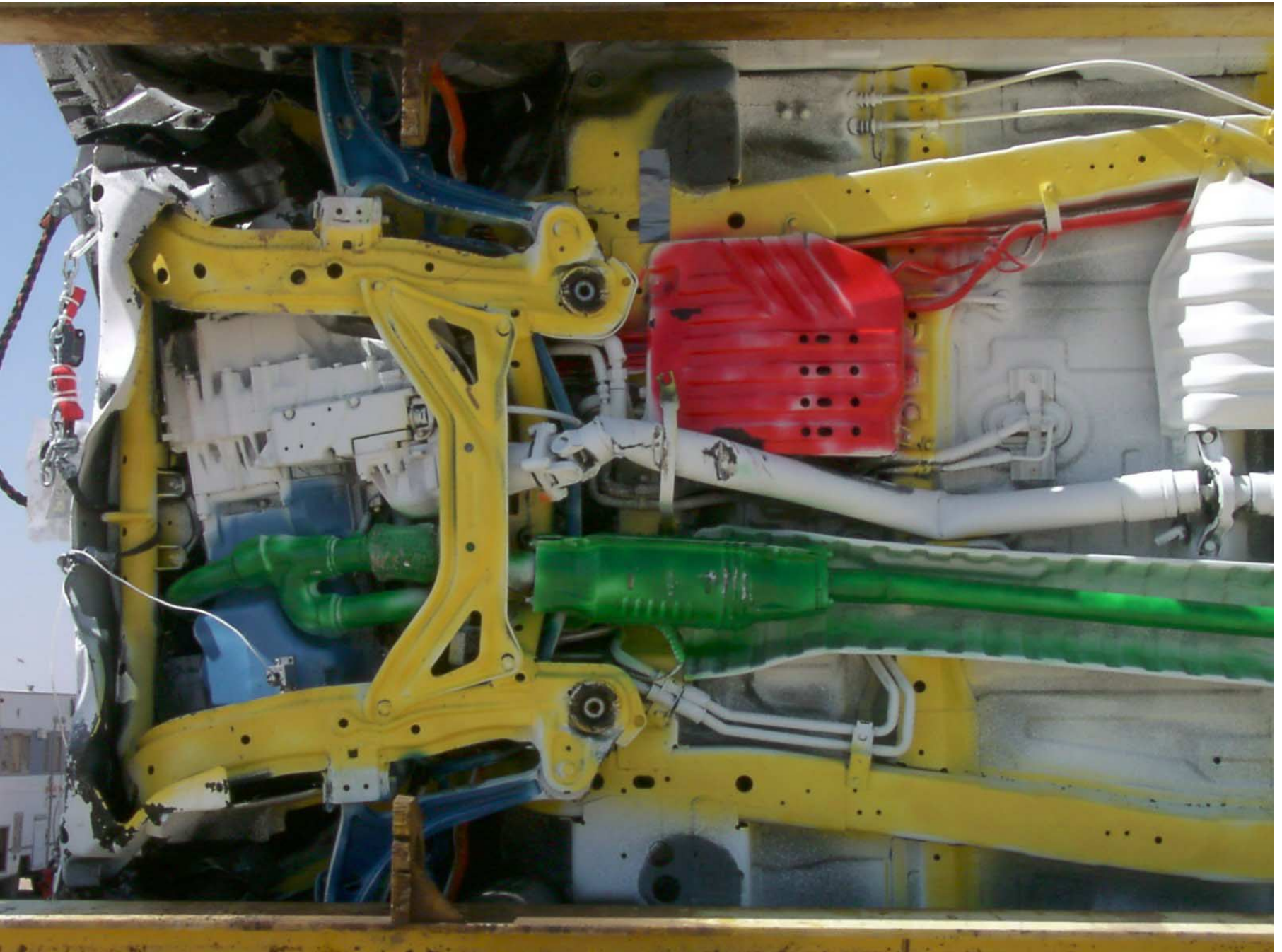


Figure A-22: Front Underside, Post-Test

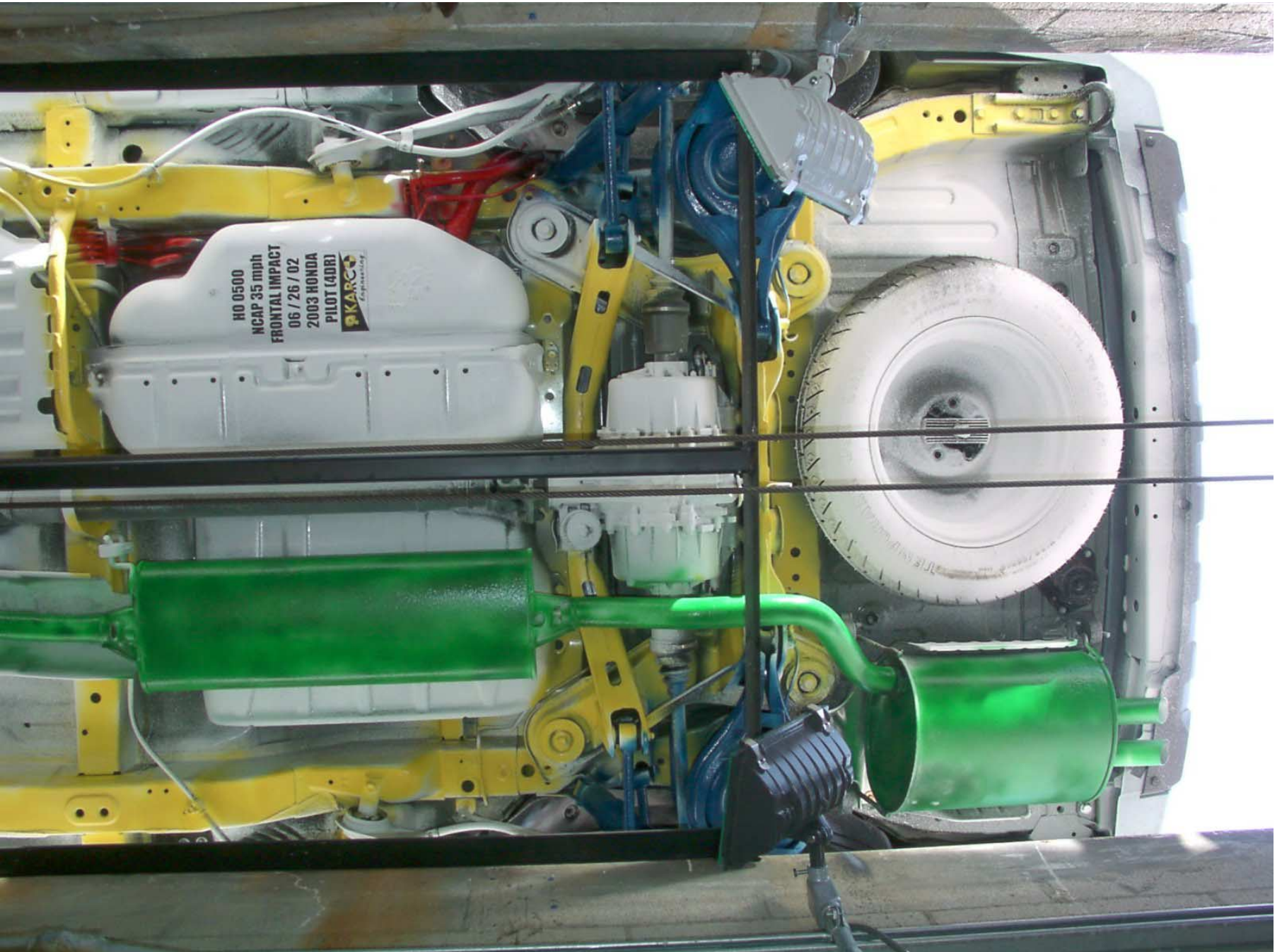


Figure A-23: Rear Underside, Pre-Test

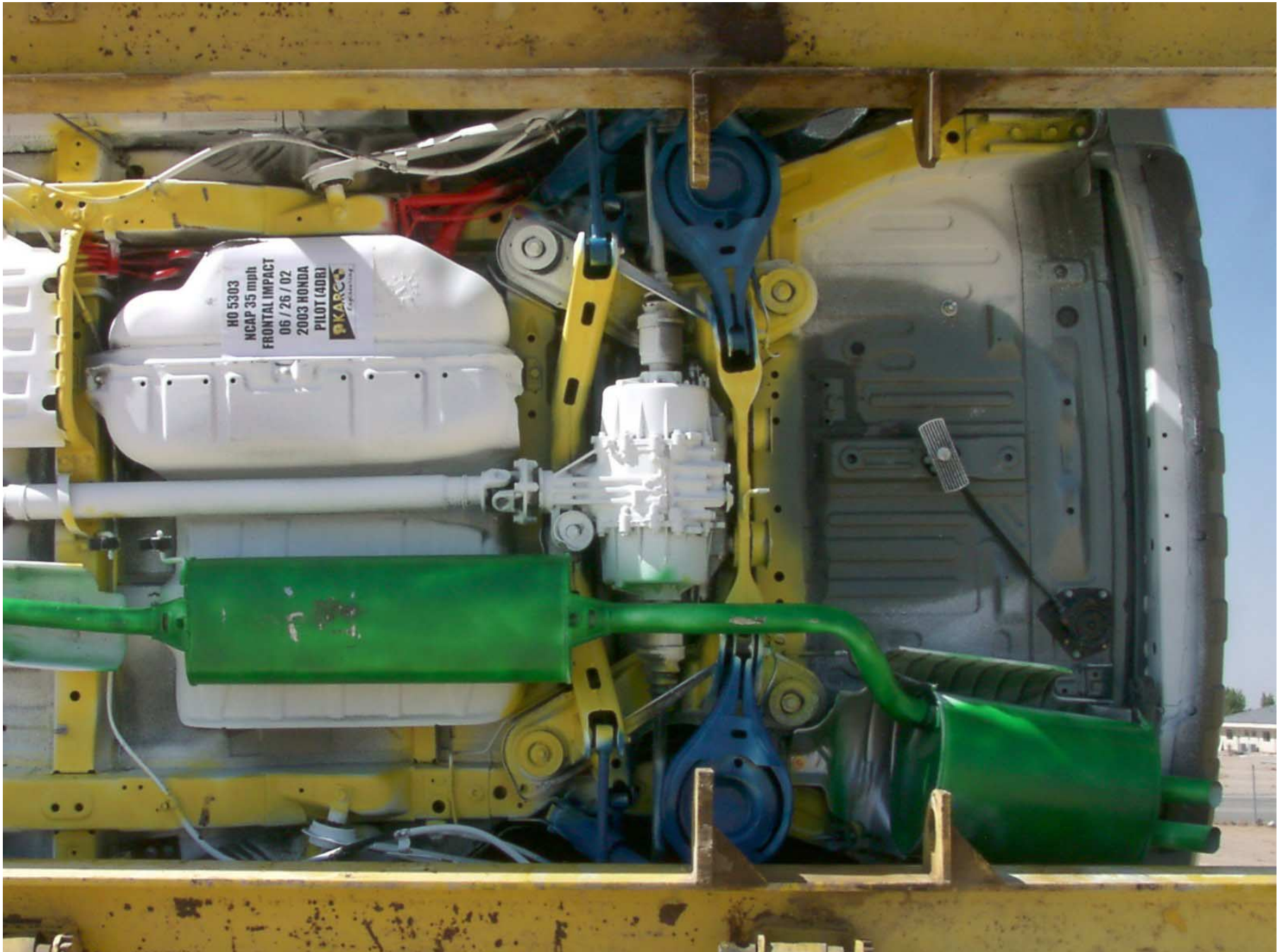


Figure A-24: Rear Underside, Post-Test



Figure A-25: Driver Dummy Front View, Pre-Test



Figure A-26: Driver Dummy Front View, Post-Test



Figure A-27: Driver Dummy Through Window, Pre-Test



Figure A-28: Driver Dummy Through Window, Post-Test



Figure A-29: Driver Dummy Door Open, Pre-Test



Figure A-30: Driver Dummy Door Open, Post-Test



Figure A-31: Driver Dummy 90° To Vehicle, Pre-Test



Figure A-32: Driver Dummy 90° To Vehicle, Post-Test



Figure A-33: Driver Dummy Feet, Pre-Test



Figure A-34: Driver Dummy Feet and Knee Contact, Post-Test



Figure A-35: Driver Side Knee Bolster, Pre-Test

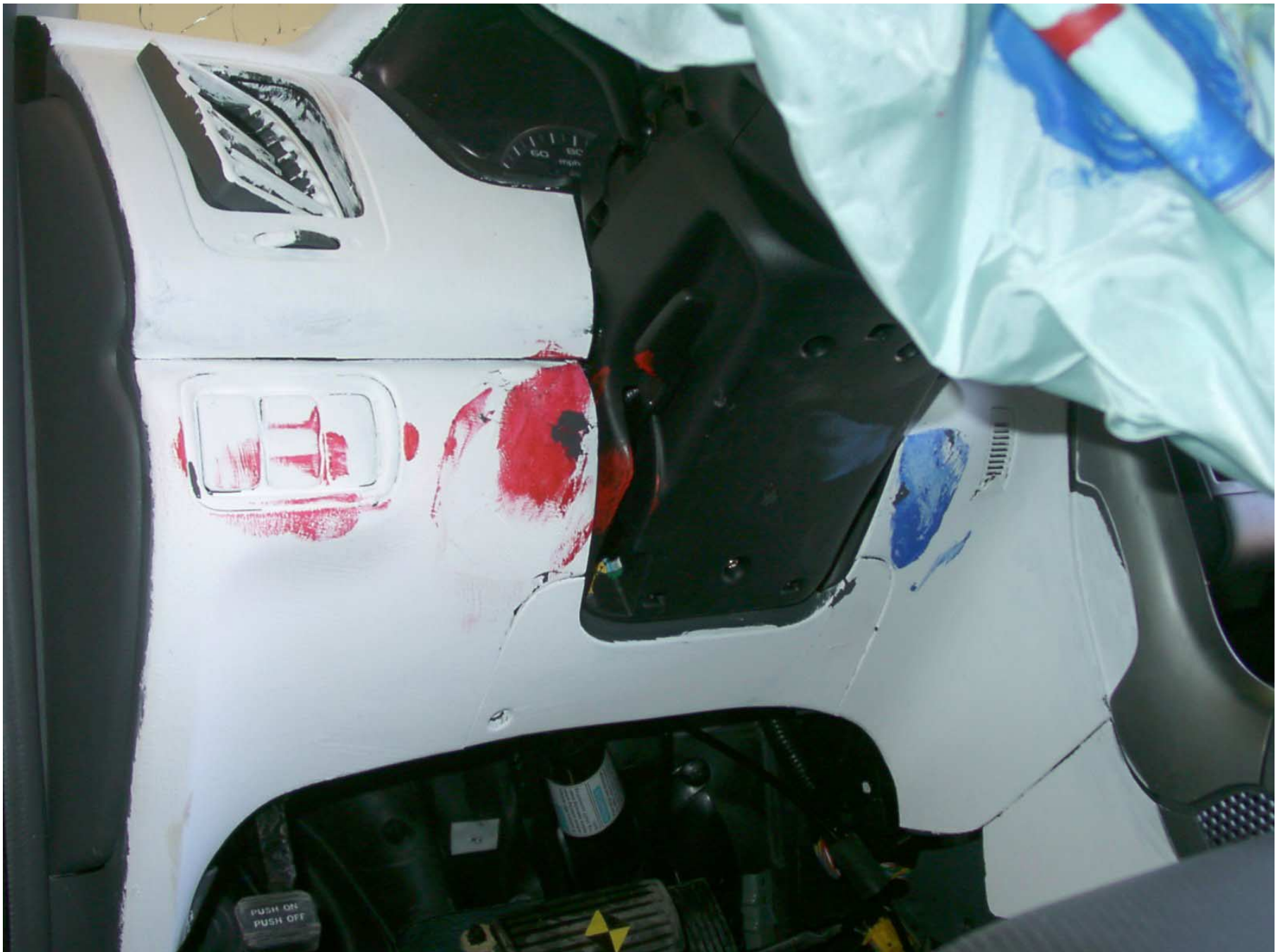


Figure A-36: Driver Side Knee Bolster, Post-Test



Figure A-37: Driver Side Floor Pan, Pre-Test



Figure A-38: Driver Side Floor Pan, Post-Test



Figure A-39: Driver Dummy Head, Post-Test



Figure A-40: Driver Dummy Contact, Post-Test



Figure A-41: Passenger Dummy Front View, Pre-Test



Figure A-42: Passenger Dummy Front View, Post-Test



Figure A-43: Passenger Dummy Through Window, Pre-Test



Figure A-44: Passenger Dummy Through Window, Post-Test



Figure A-45: Passenger Dummy Door Open, Pre-Test



Figure A-46: Passenger Dummy Door Open, Post-Test



Figure A-47: Passenger Dummy 90° To Vehicle, Pre-Test



Figure A-48: Passenger Dummy 90° To Vehicle, Post-Test



Figure A-49: Passenger Dummy Feet, Pre-Test



Figure A-50: Passenger Dummy Feet and Knee Contact, Post-Test



Figure A-51: Passenger Side Floor Pan, Pre-Test



Figure A-52: Passenger Side Floor Pan, Post-Test



Figure A-53: Passenger Side Knee Bolster, Pre-Test



Figure A-54: Passenger Side Knee Bolster, Post-Test



Figure A-55: Passenger Head, Post-Test



Figure A-56: Passenger Dummy Contact, Post-Test



Figure A-57: ¾ Left Rear View of Doors After Impact



Figure A-58: $\frac{3}{4}$ Right Rear View of Doors After Impact



Figure A-59: Vehicle on Rollover Device



Figure A-60: Vehicle During Impact

APPENDIX B

DATA PLOTS

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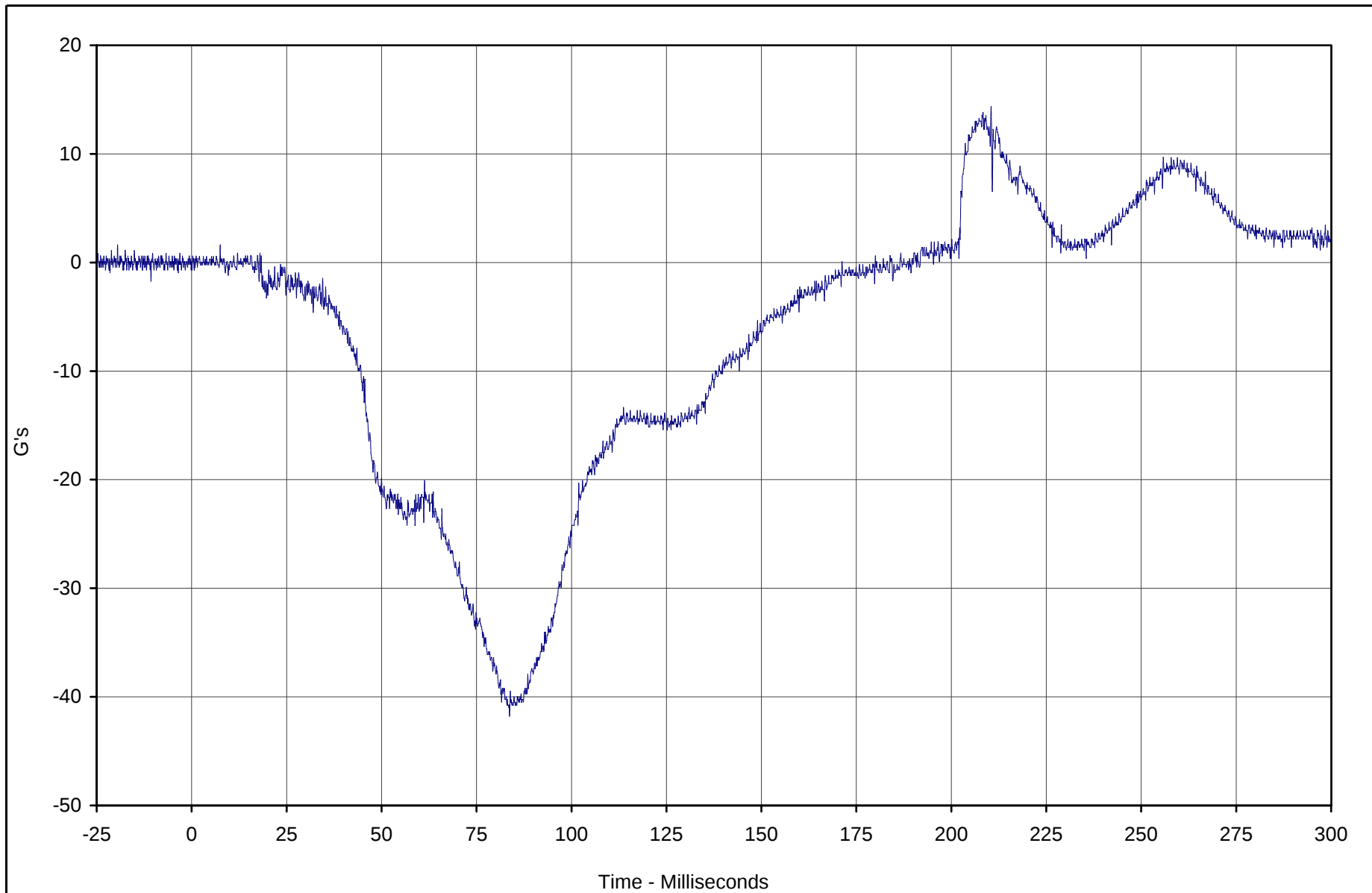
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Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Head Primary X	001	FIL	G's	14.3	210.5	-41.8	83.7	1000

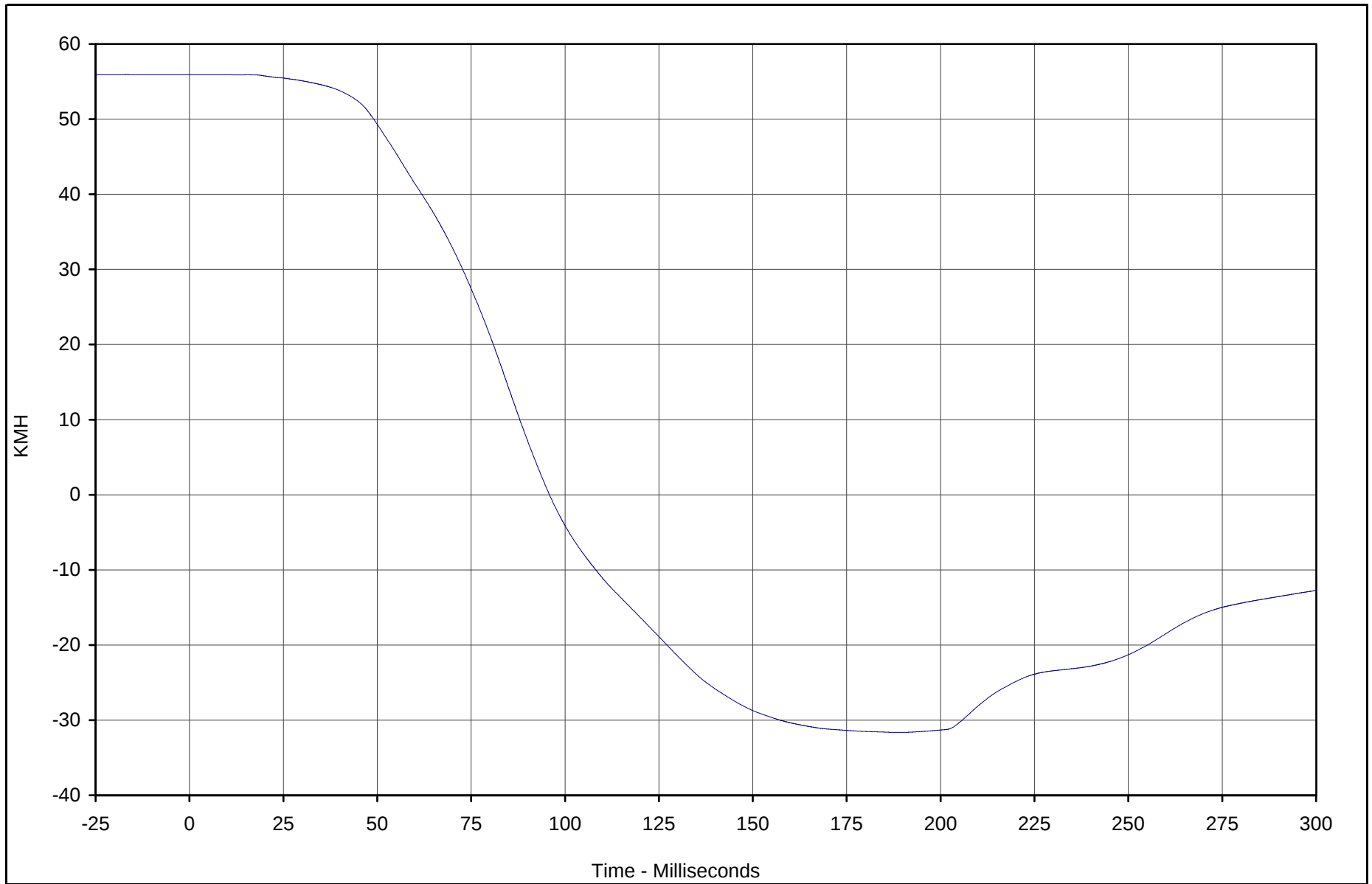


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Head Primary X Velocity	001	IN1	KMH	55.9	8.3	-31.6	189.6	180

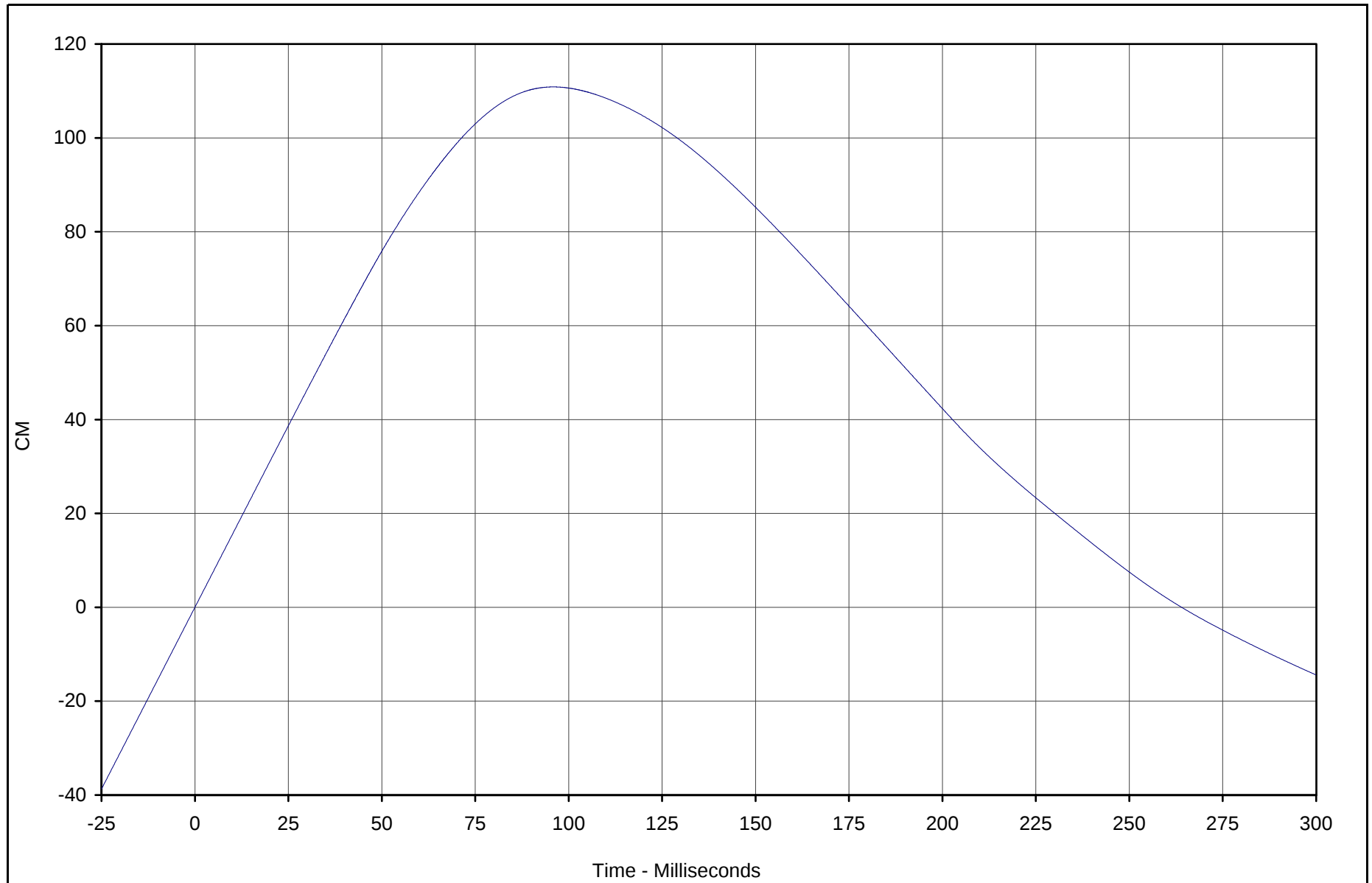


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Head Primary X Displ.	001	IN2	CM	110.9	95.9	-14.4	299.9	180

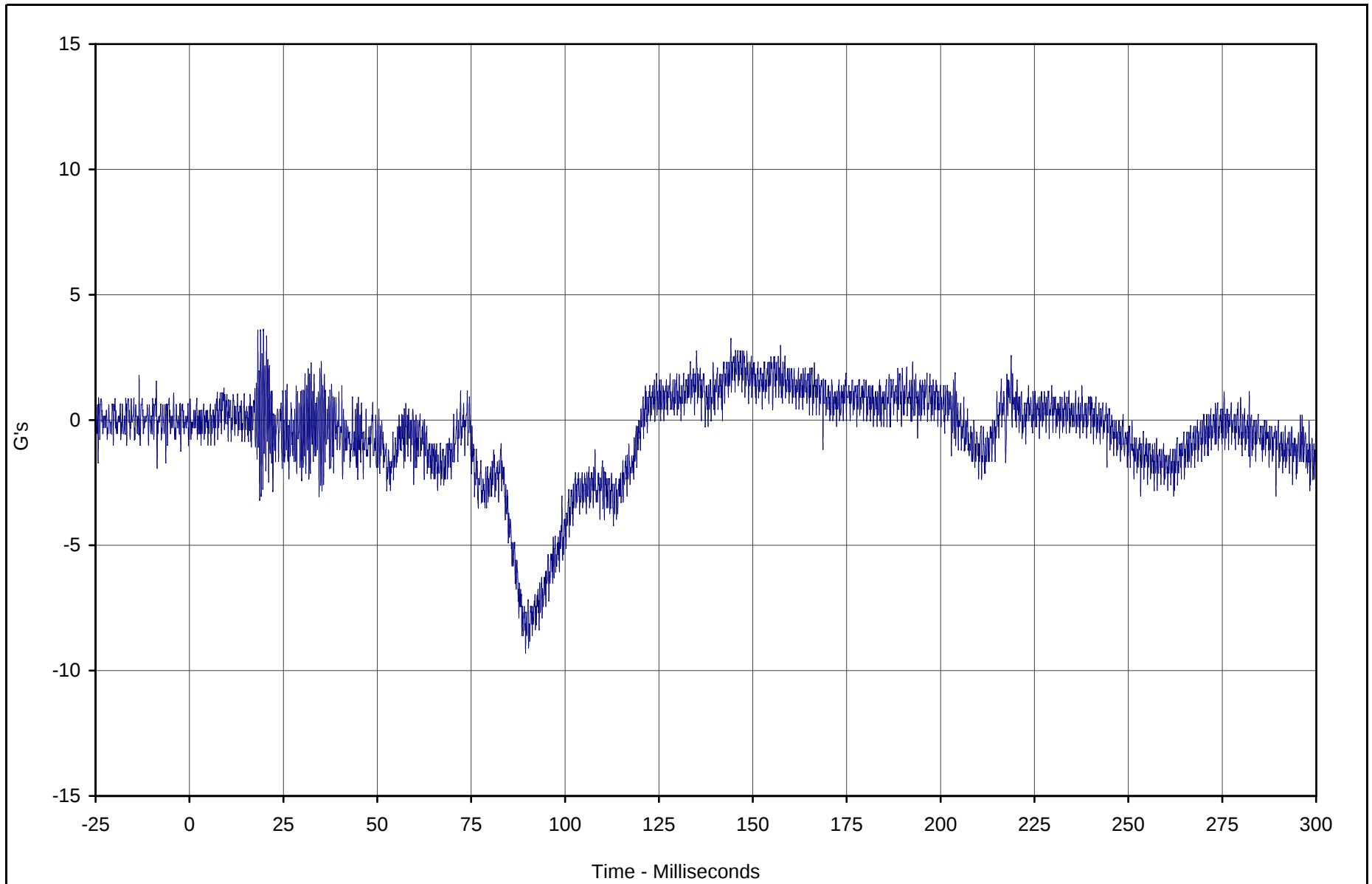


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Head Primary Y	002	FIL	G's	3.6	18.2	-9.3	89.5	1000



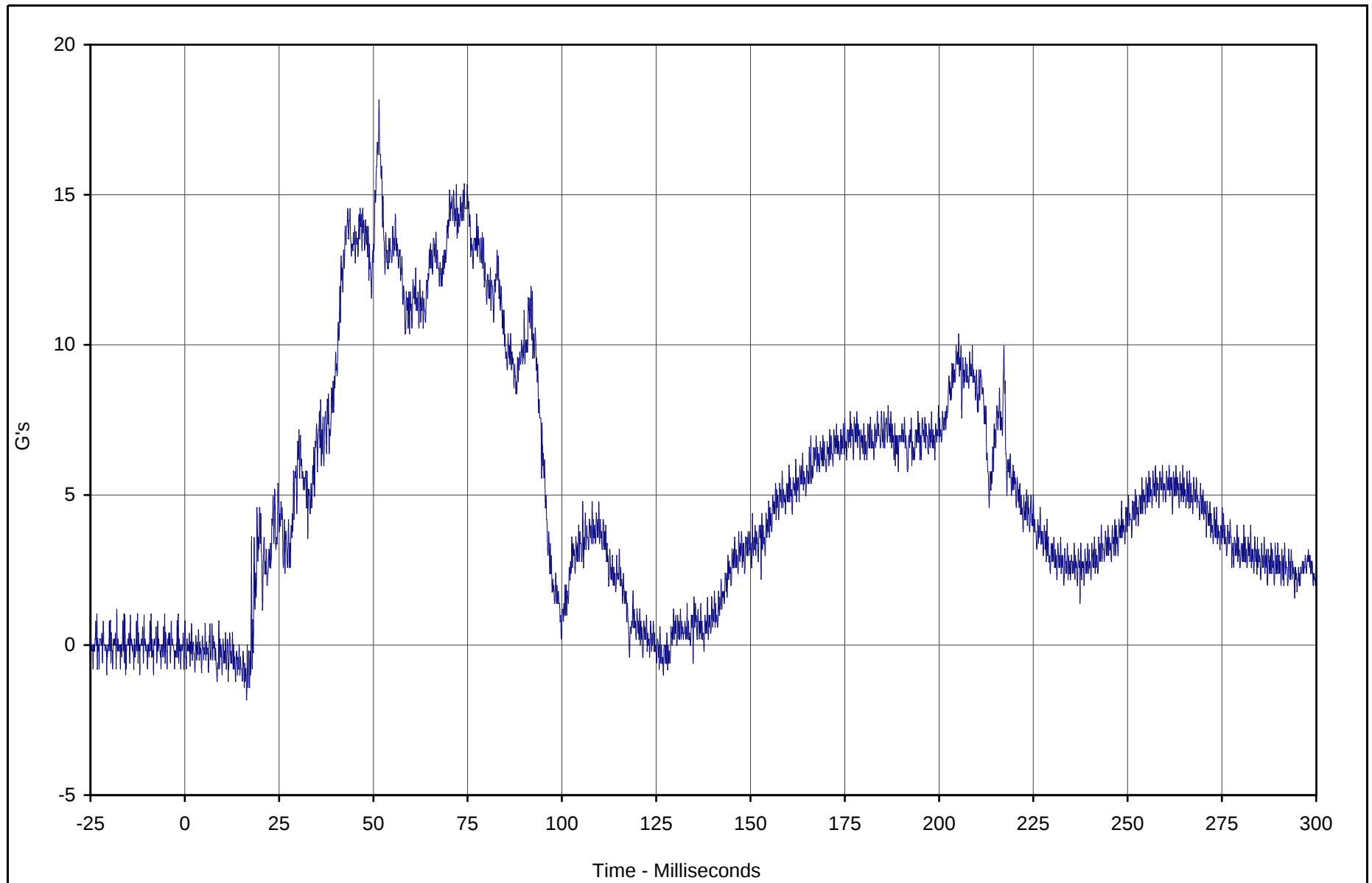
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

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Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Head Primary Z	003	FIL	G's	18.1	51.5	-1.8	16.4	1000



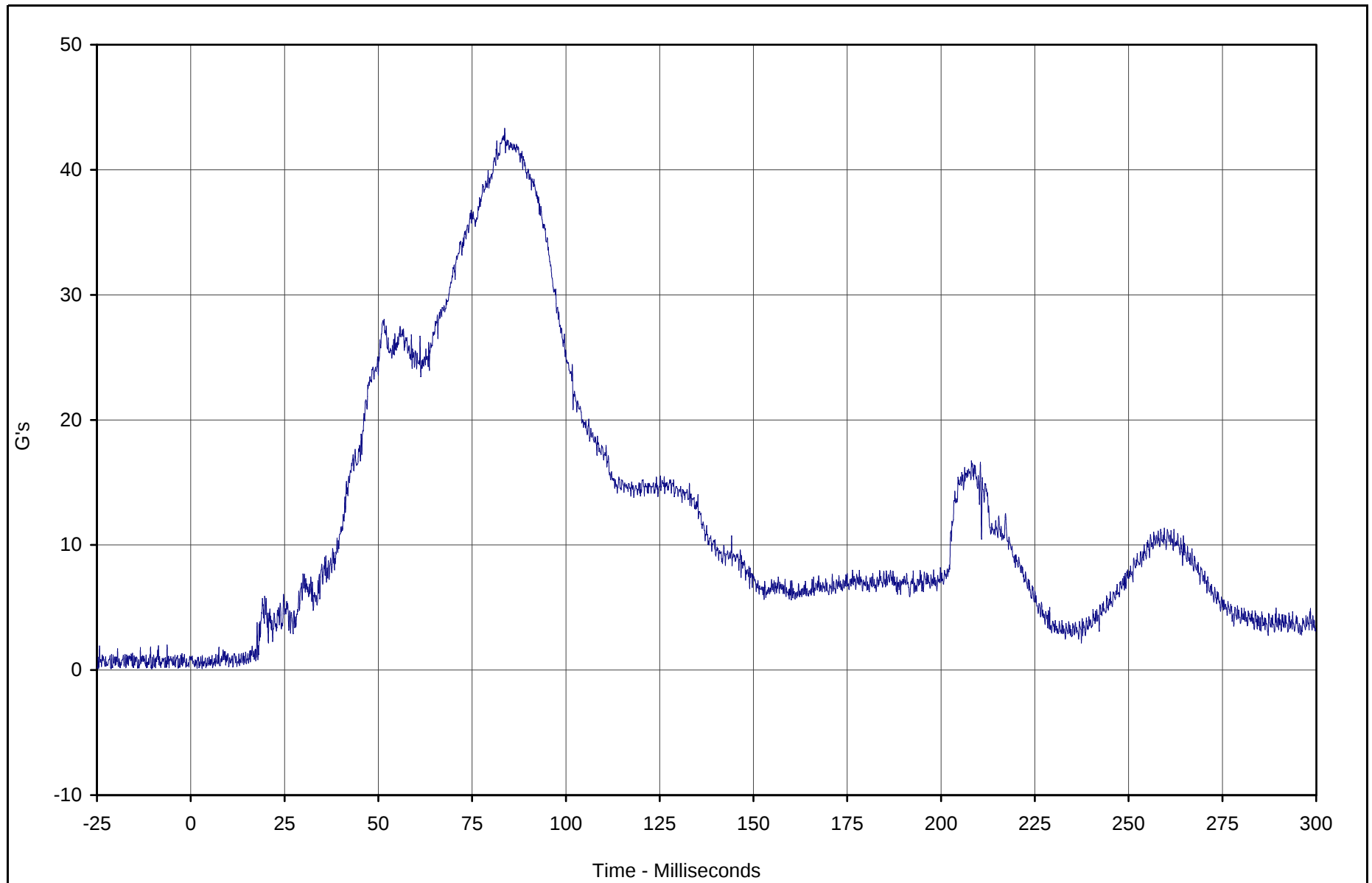
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Head Resultant Primary	001	RES	G's	43.3	83.7	0.1	3.0	1000

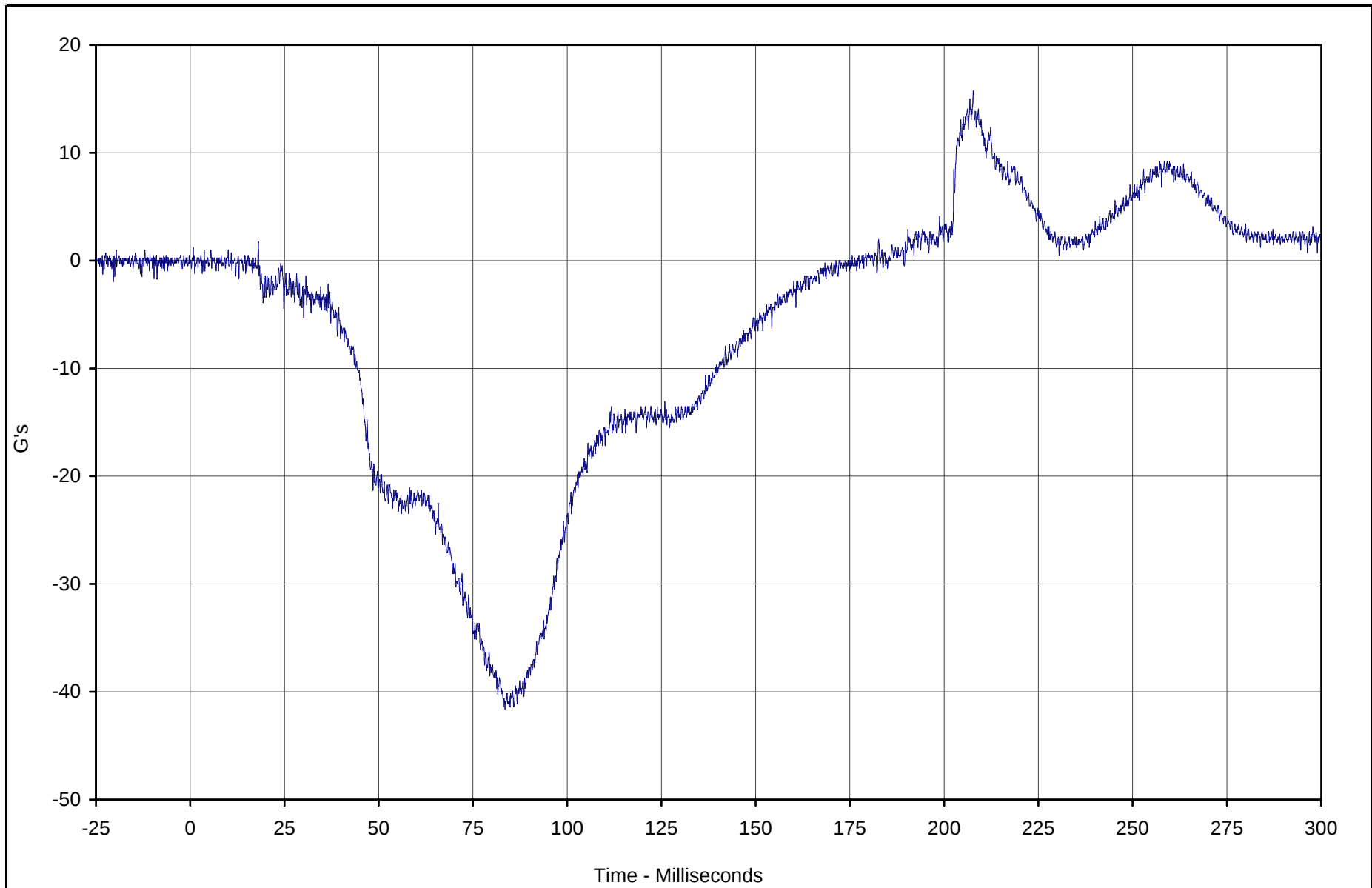


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Head Redundant X	004	FIL	G's	15.7	207.7	-41.6	83.5	1000

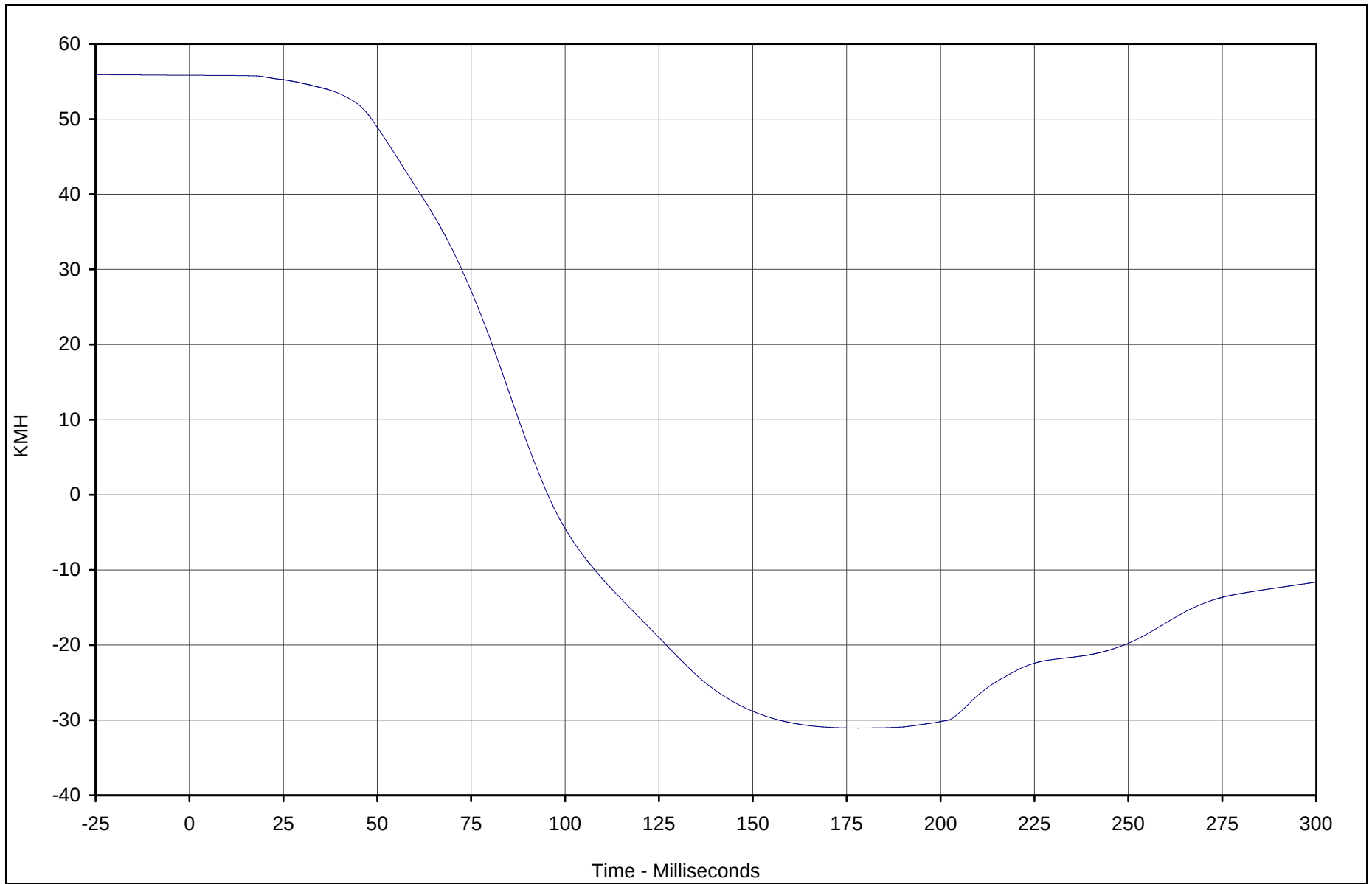


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Head Redundant X Velocity	004	IN1	KMH	55.8	0.0	-31.1	178.1	180

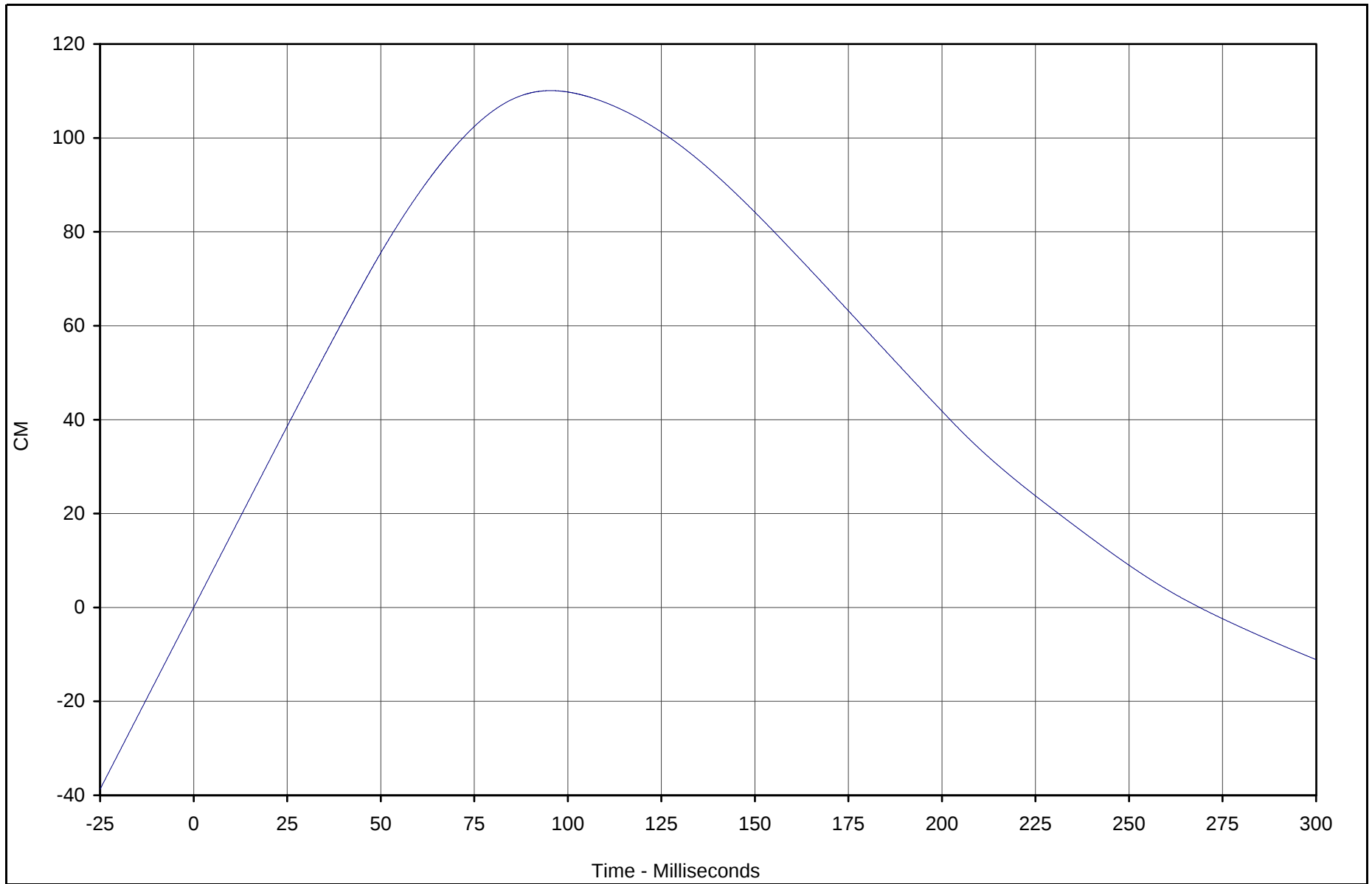


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Head Redundant X Displ.	004	IN2	CM	110.1	95.4	-11.1	299.9	180

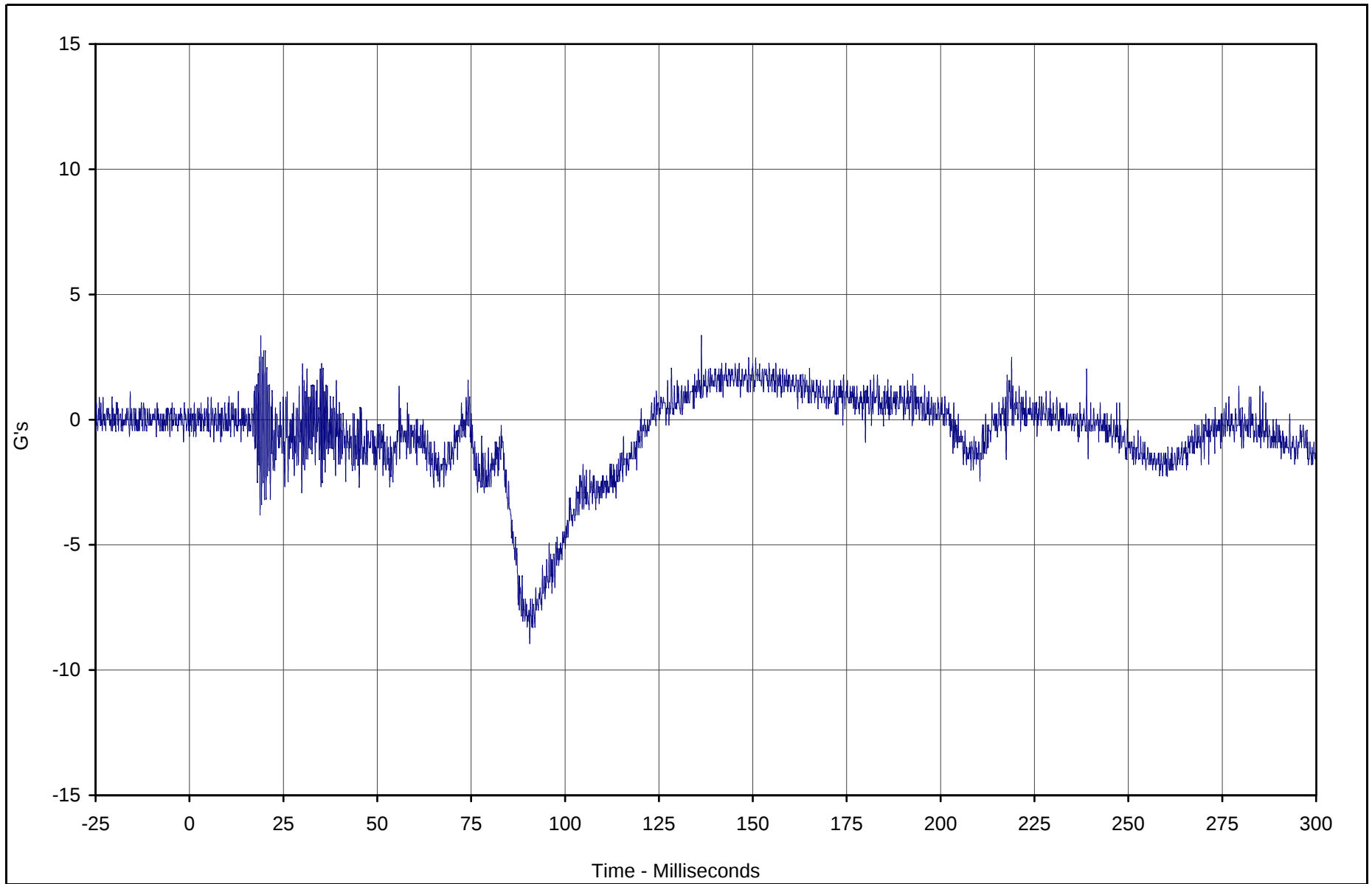


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Head Redundant Y	005	FIL	G's	3.4	19.0	-9.0	90.6	1000

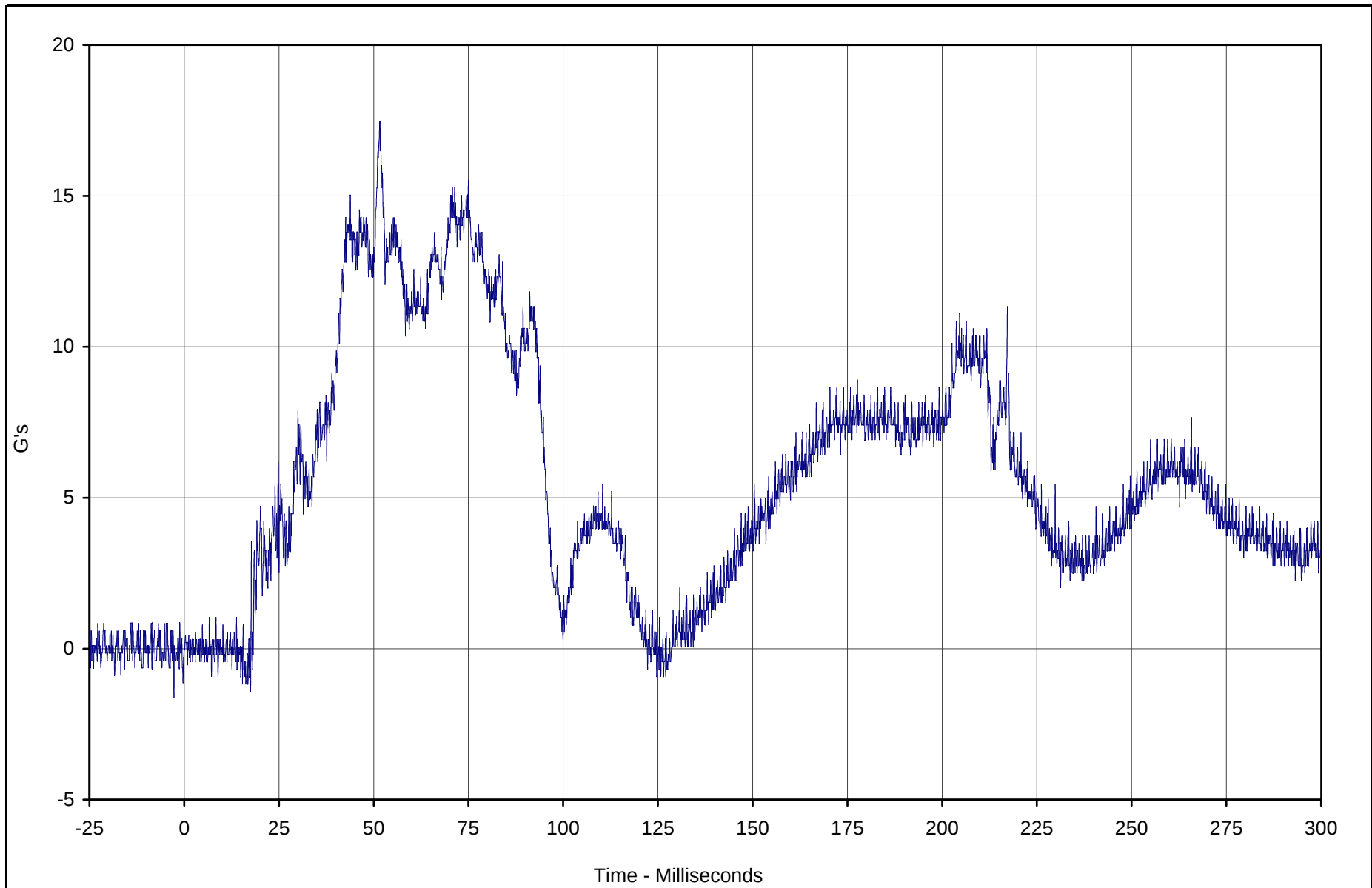


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Head Redundant Z	006	FIL	G's	17.5	51.6	-1.4	17.5	1000

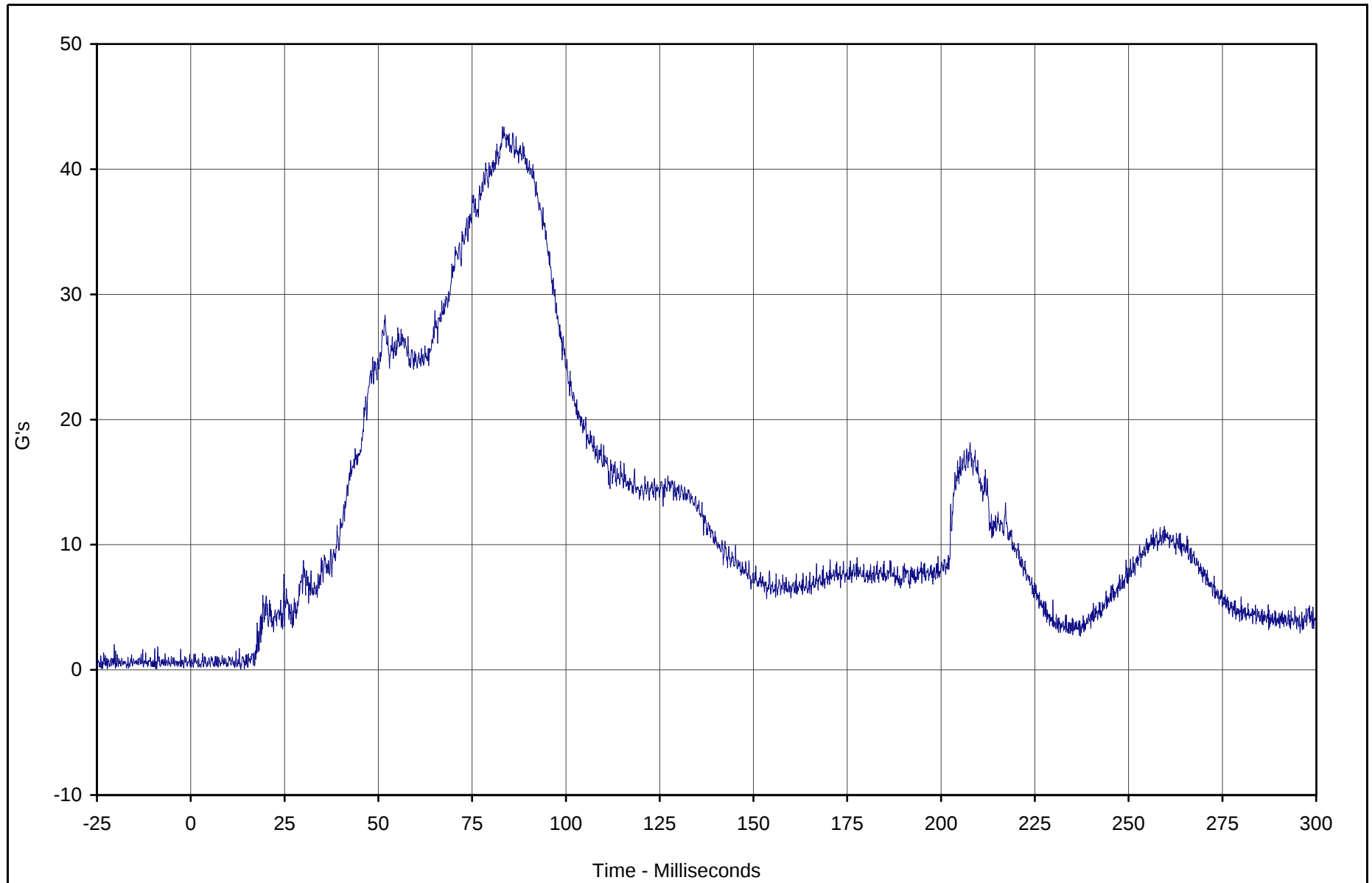


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Head Resultant Redundant	004	RES	G's	43.4	83.1	0.1	13.3	1000

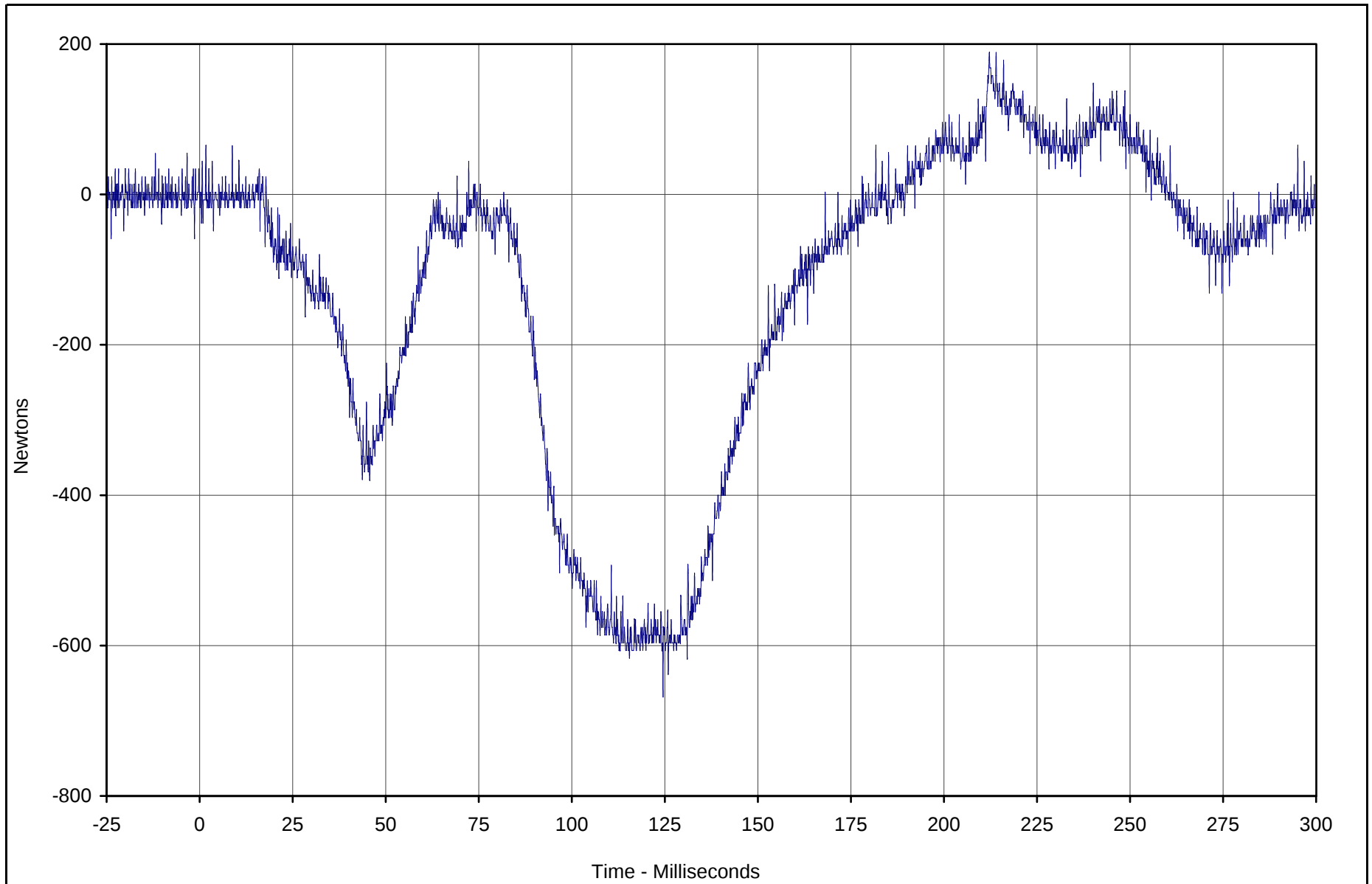


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Neck Force X	007	FIL	Newtons	189.0	212.2	-668.7	124.5	1000

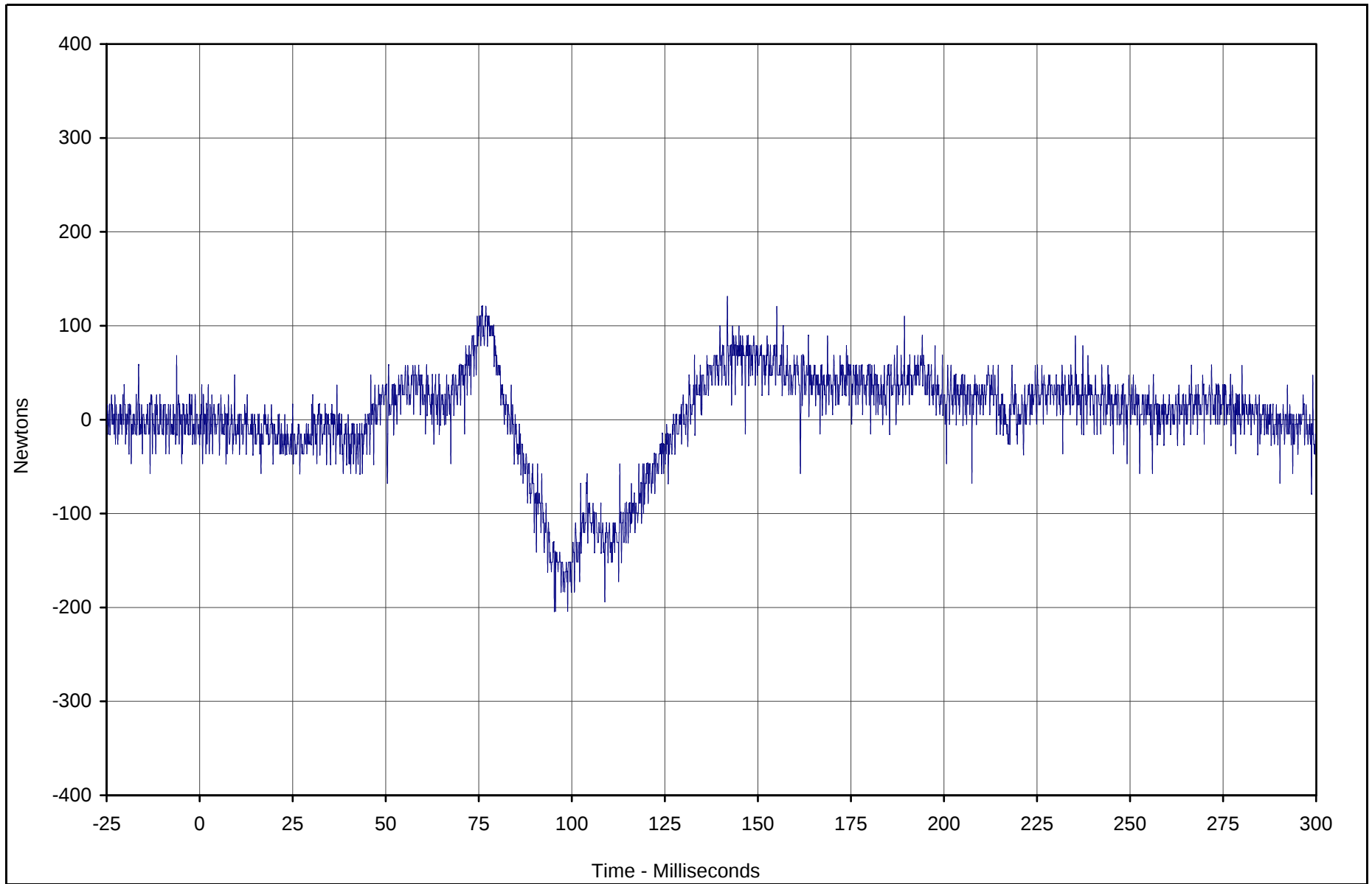


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Neck Force Y	008	FIL	Newtons	131.3	141.8	-204.2	95.3	1000

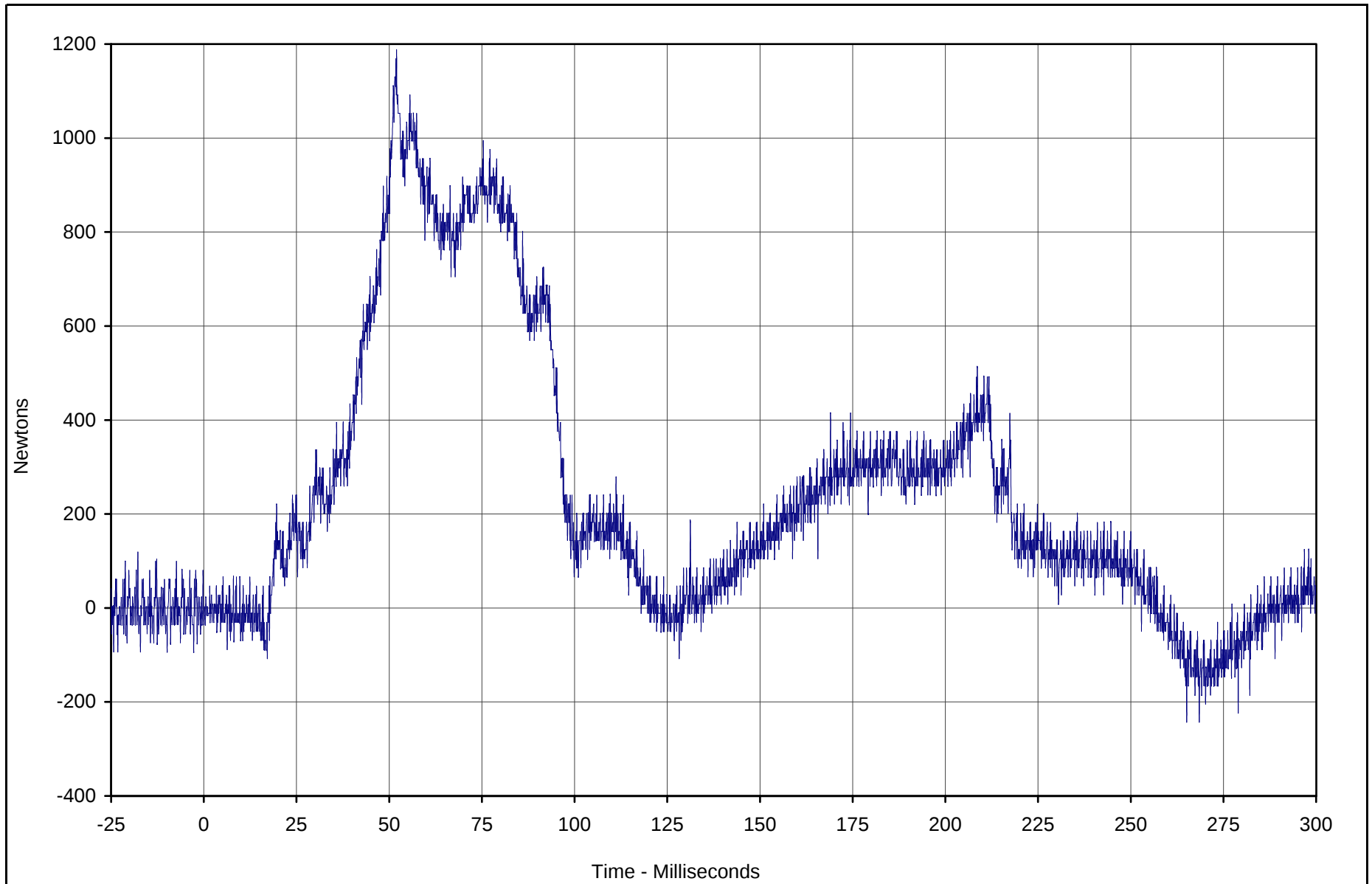


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Neck Force Z	009	FIL	Newtons	1188.2	52.0	-243.5	265.1	1000

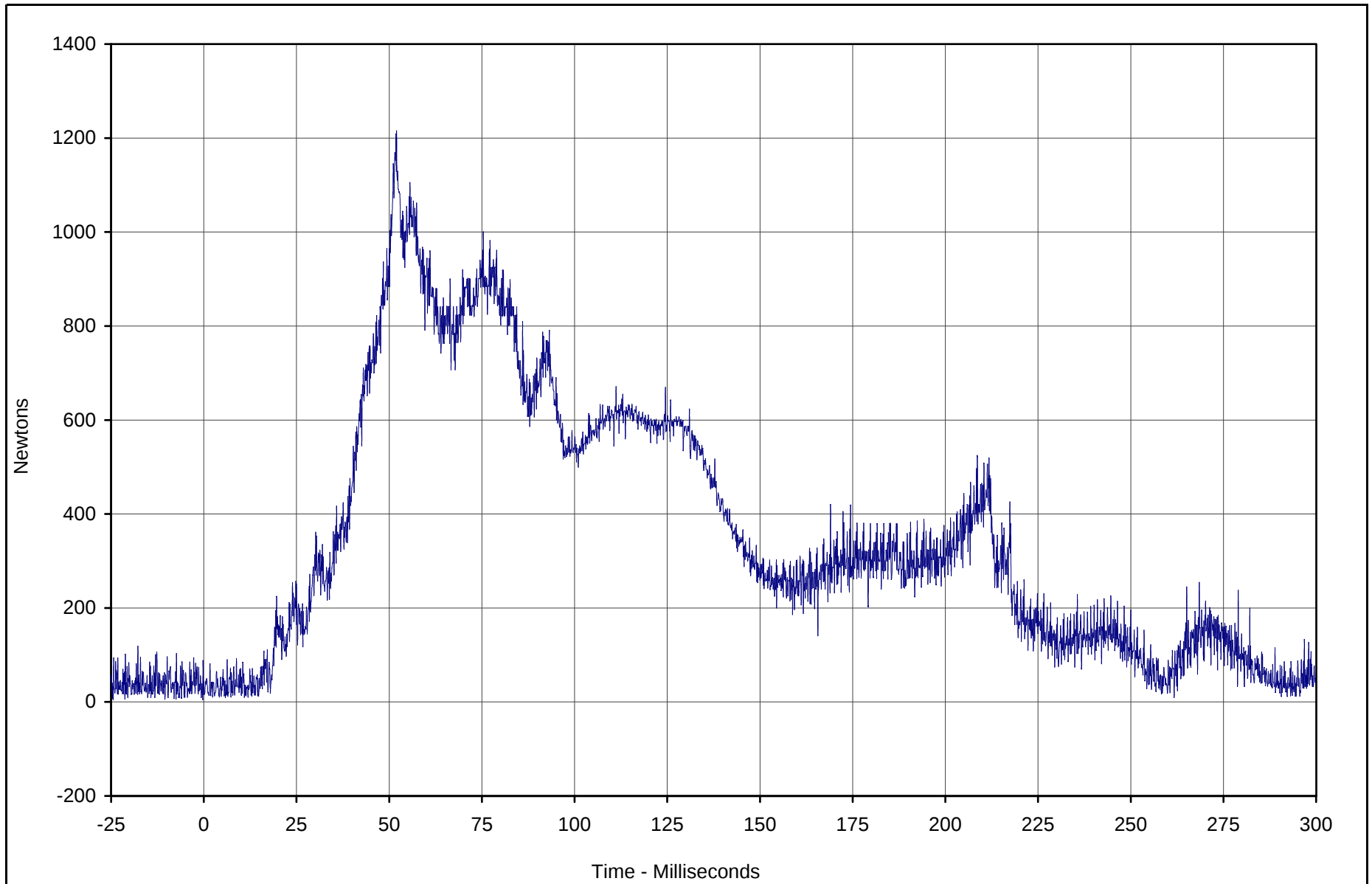


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Neck Force Resultant	007	RES	Newtons	1215.9	52.0	9.9	11.9	1000

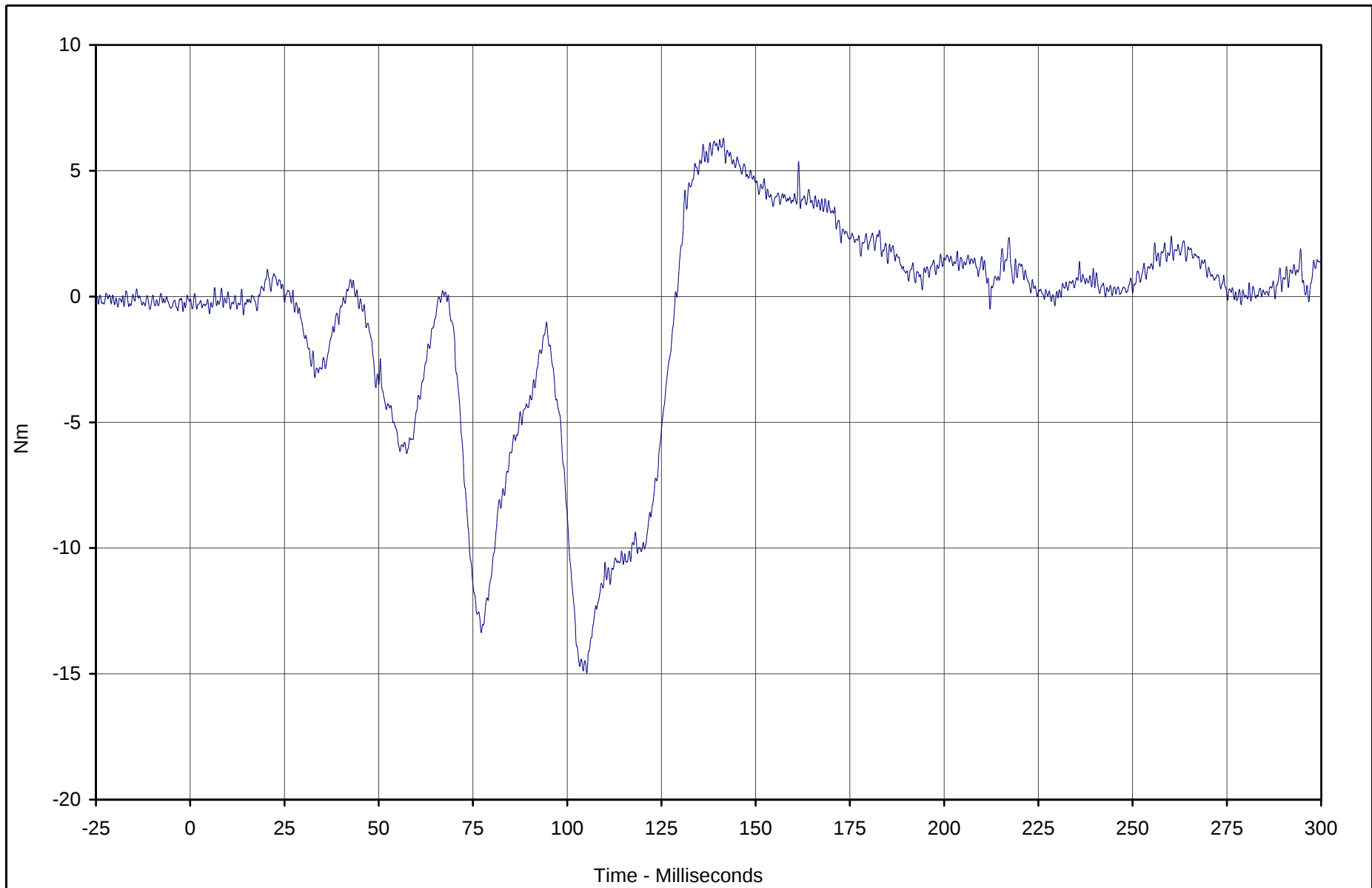


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Neck Moment X	010	FIL	Nm	6.3	141.4	-15.0	105.2	600

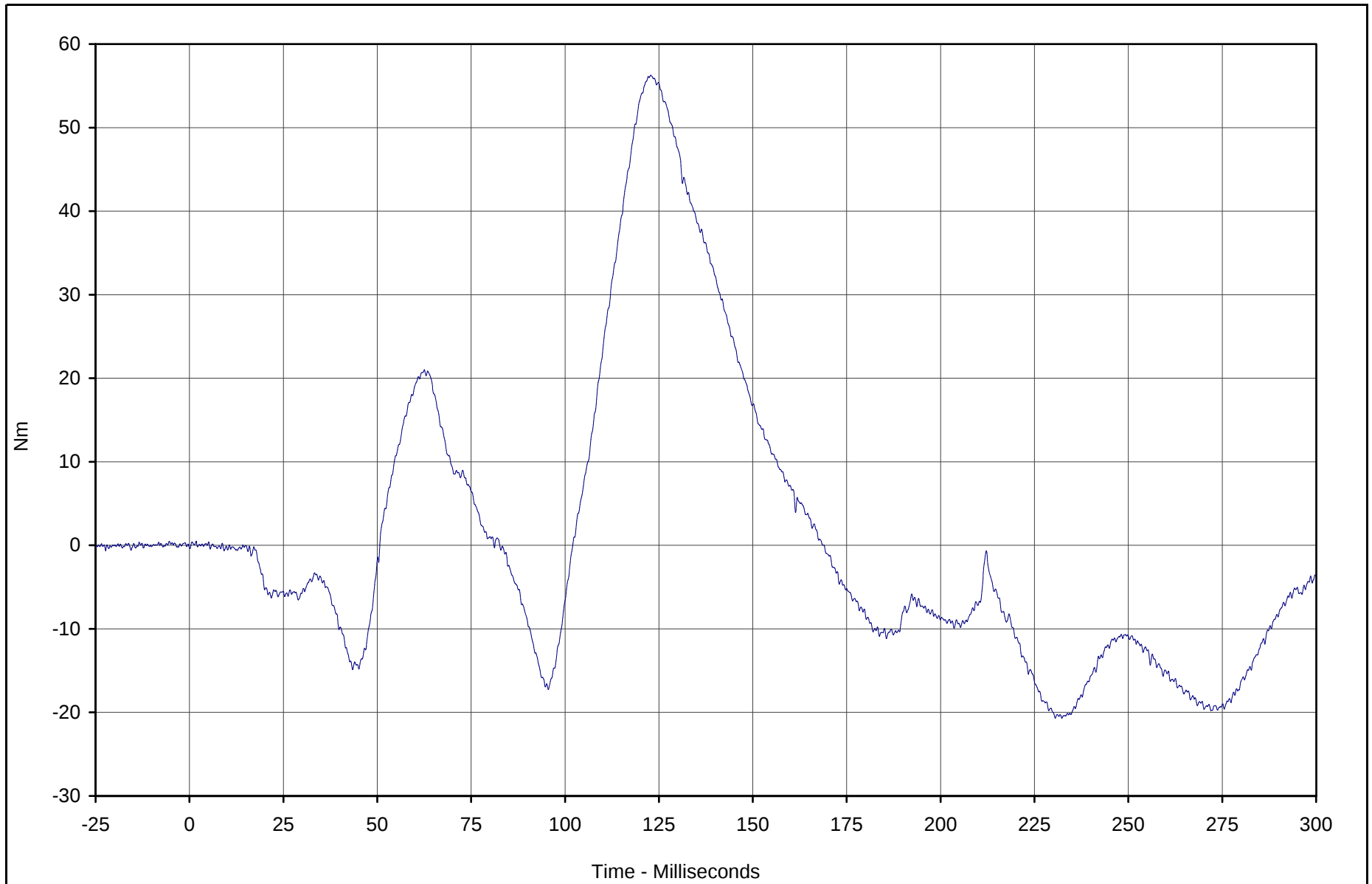


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Neck Moment Y	011	FIL	Nm	56.3	122.8	-20.7	232.3	600

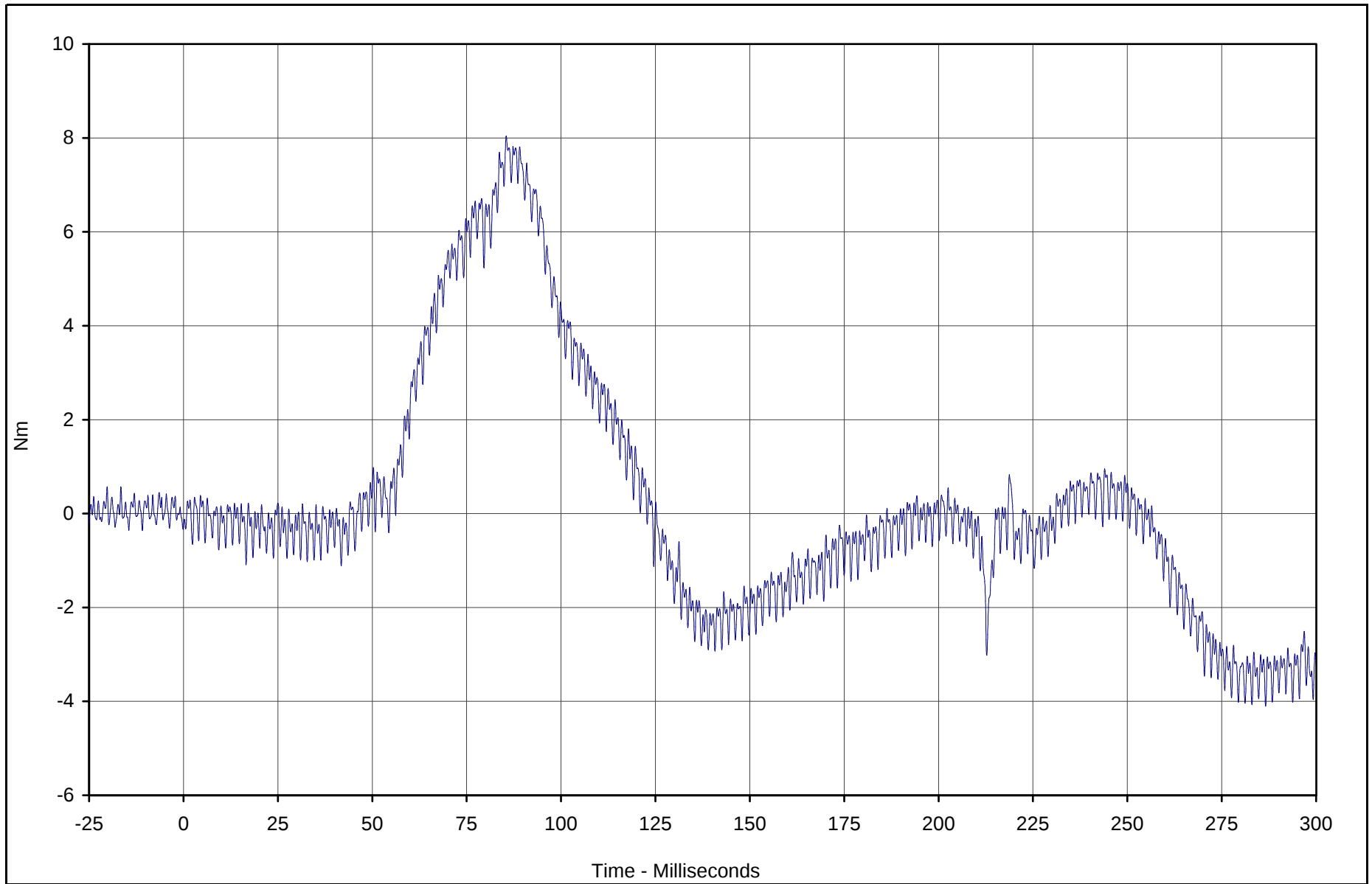


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Neck Moment Z	012	FIL	Nm	8.0	85.5	-4.1	286.6	600

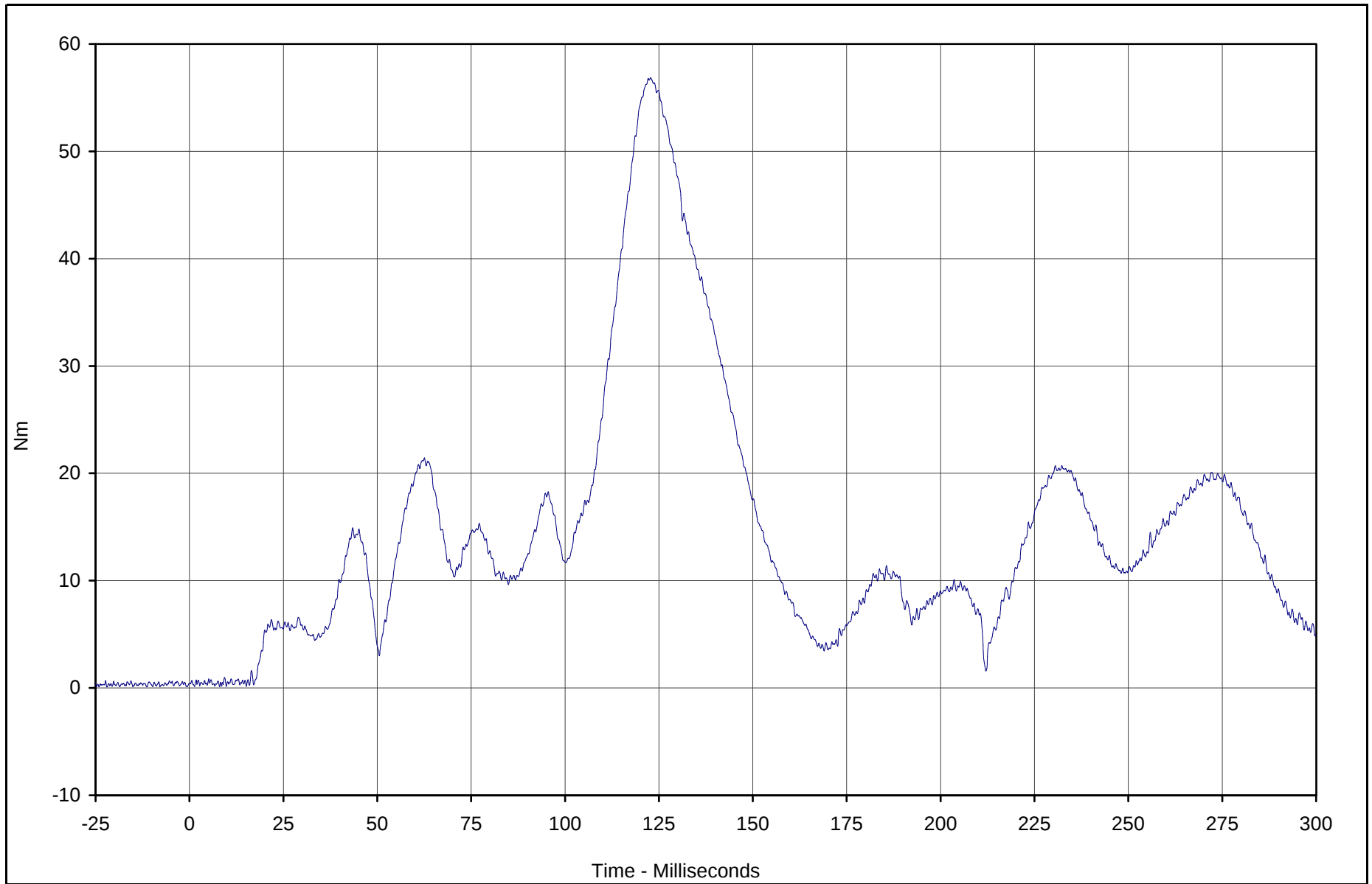


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Neck Moment Resultant	010	RES	Nm	56.9	122.8	0.1	8.0	600

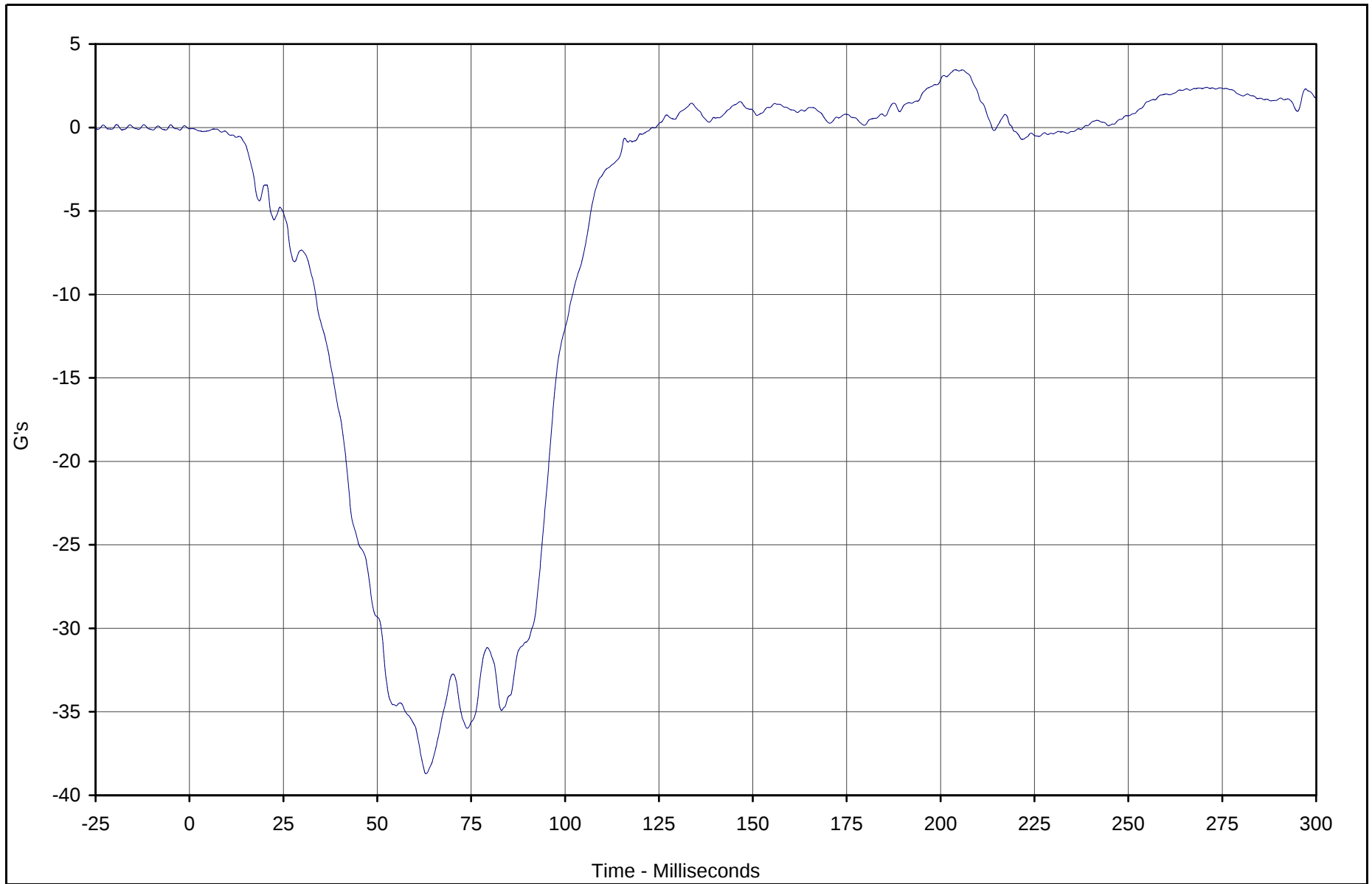


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Chest Primary X	013	FIL	G's	3.5	203.9	-38.7	63.0	180

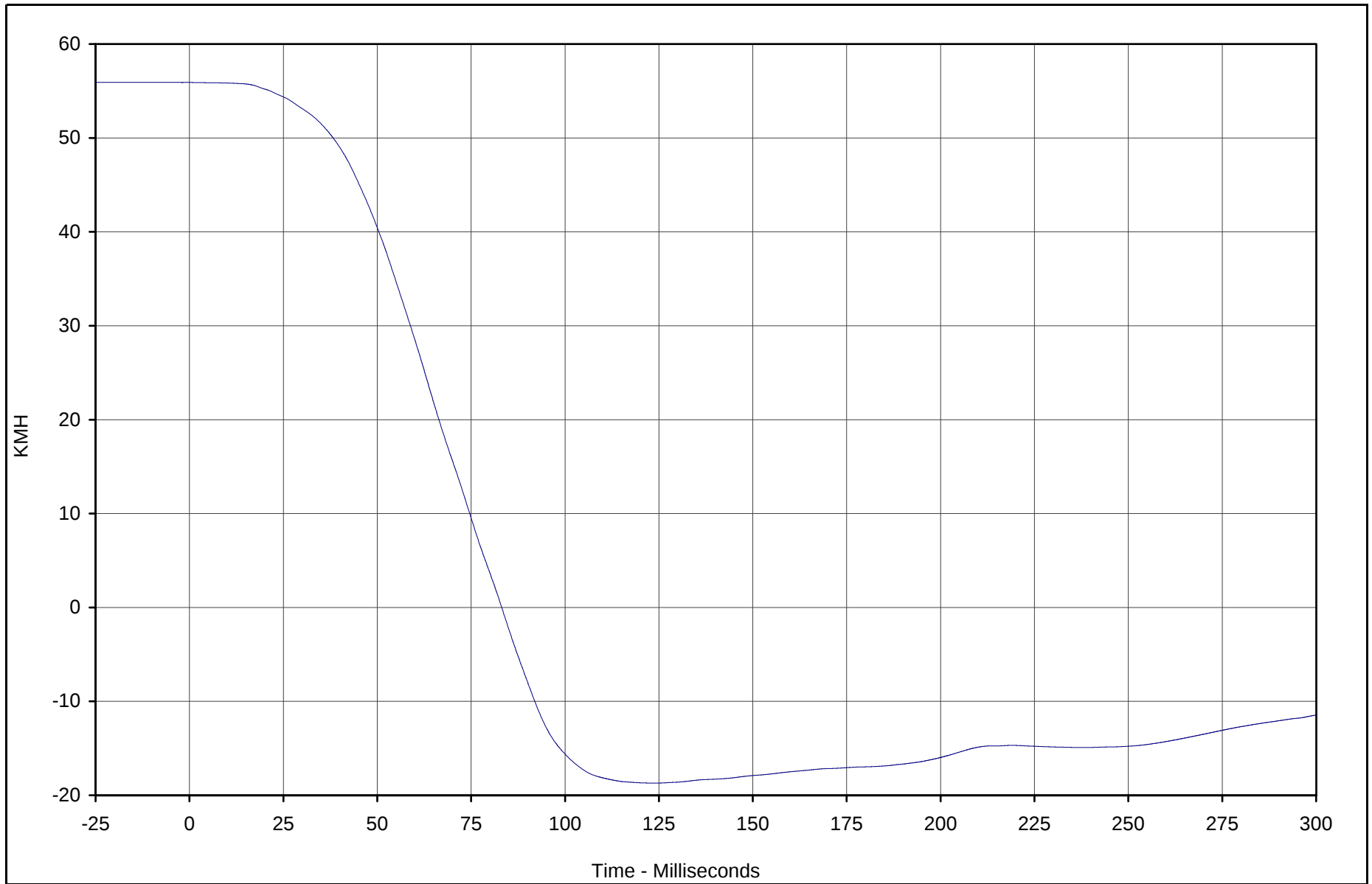


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Chest Primary X Velocity	013	IN1	KMH	55.9	0.0	-18.7	124.1	180

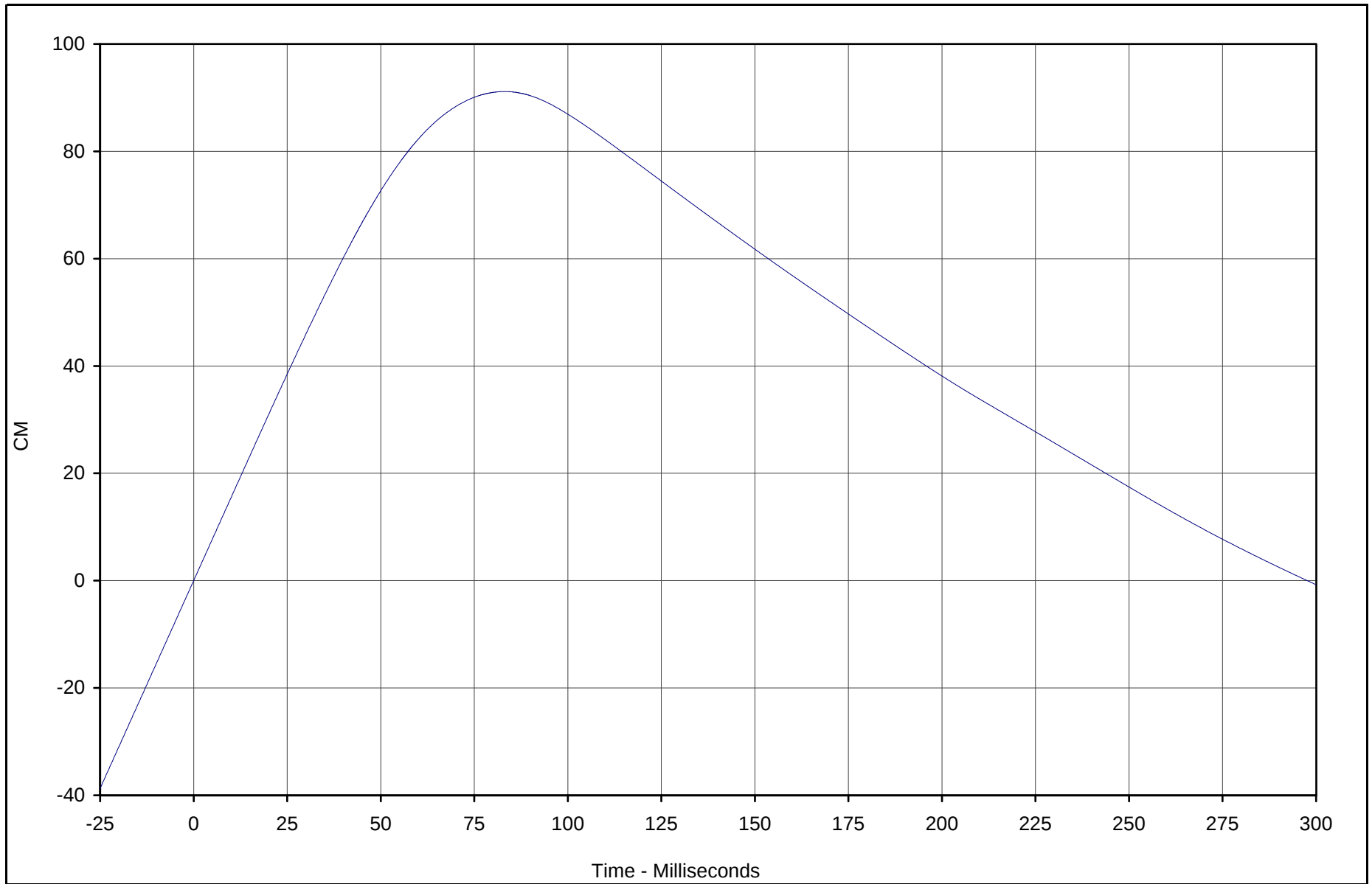


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Chest Primary X Displ.	013	IN2	CM	91.1	83.1	-0.7	299.9	180

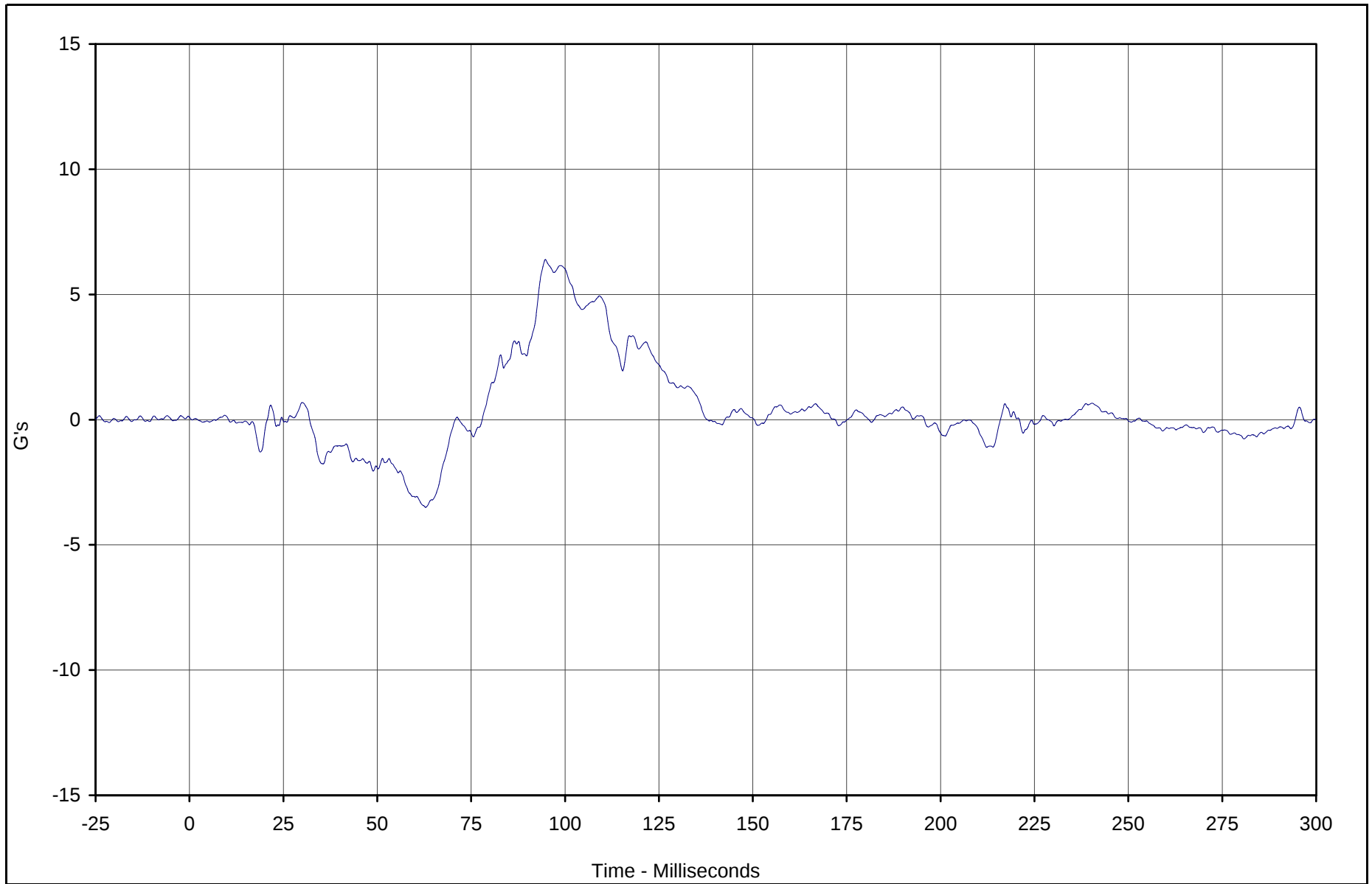


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Chest Primary Y	014	FIL	G's	6.4	94.8	-3.5	62.9	180



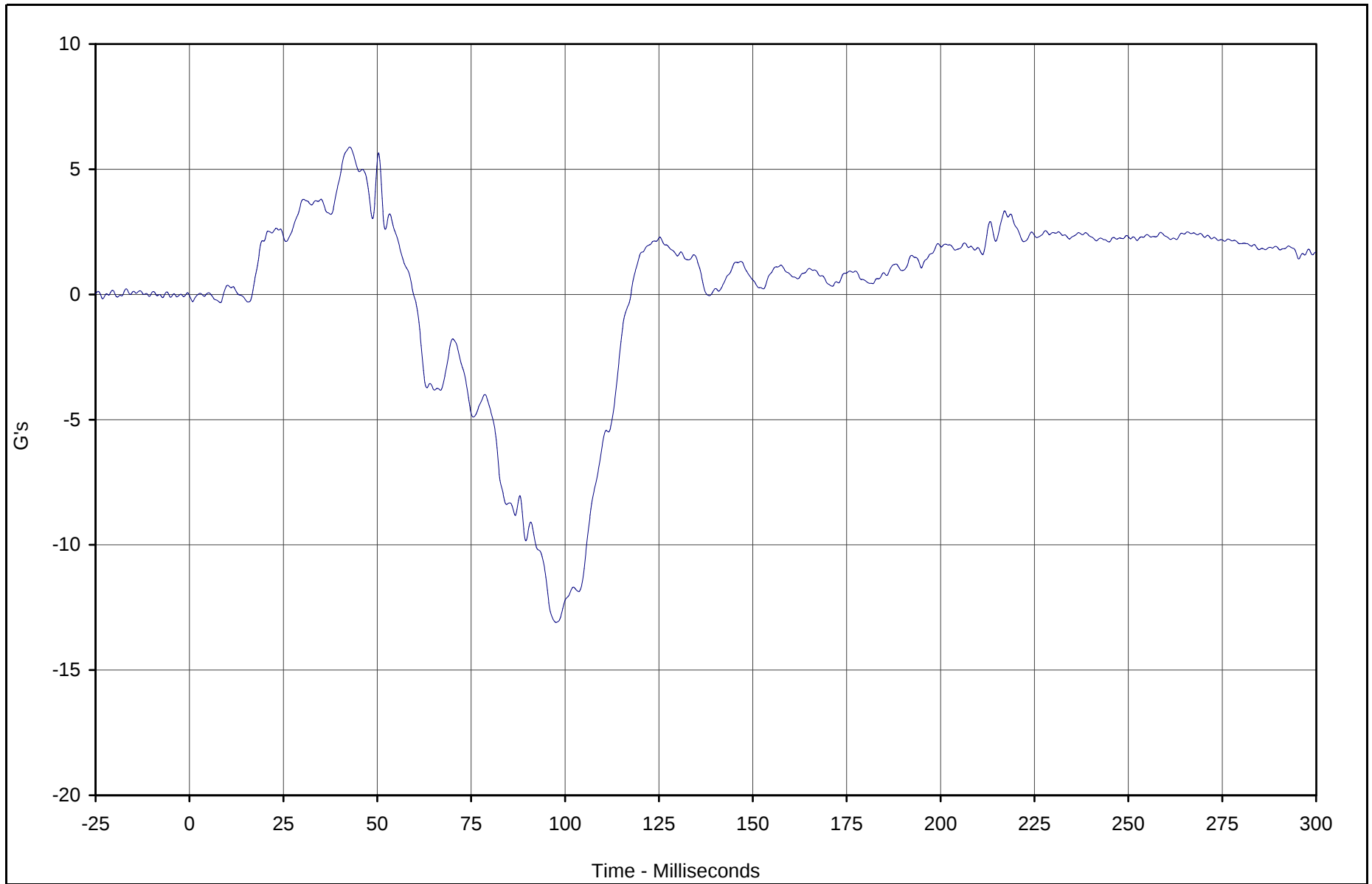
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

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Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Chest Primary Z	015	FIL	G's	5.9	42.7	-13.1	97.6	180



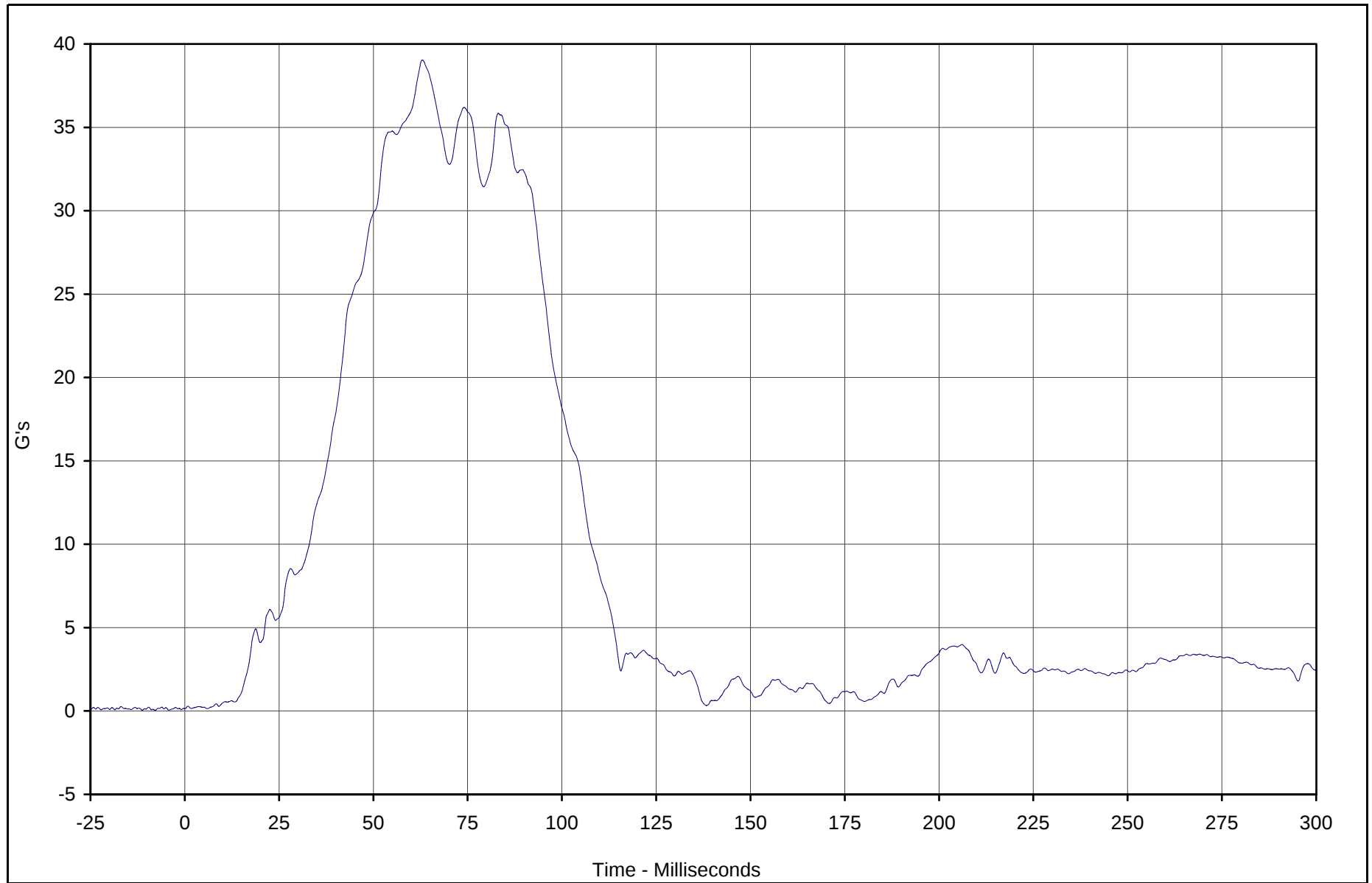
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Chest Resultant Primary	013	RES	G's	39.0	63.0	0.1	0.0	180

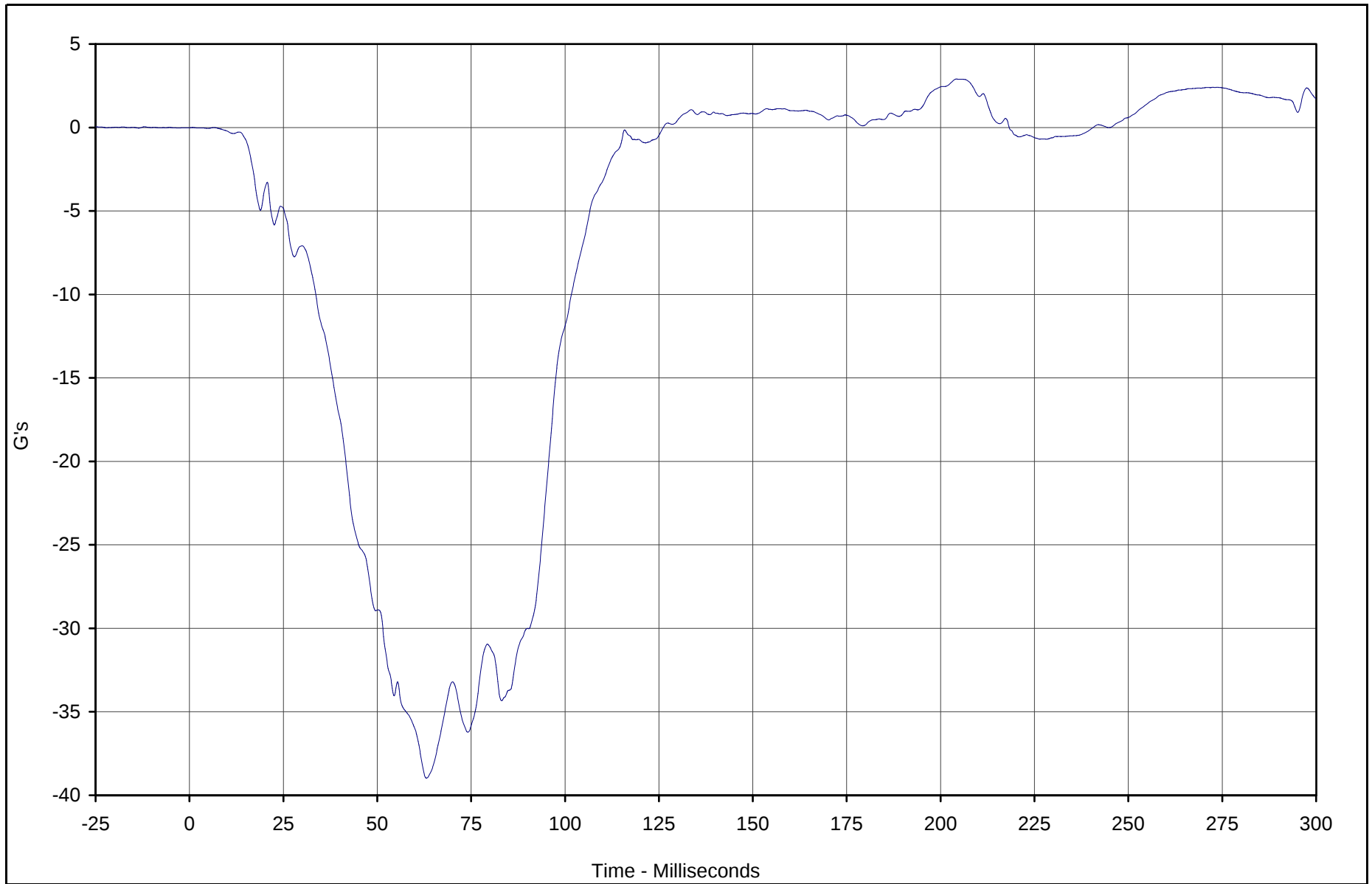


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Chest Redundant X	016	FIL	G's	2.9	204.2	-39.0	63.1	180

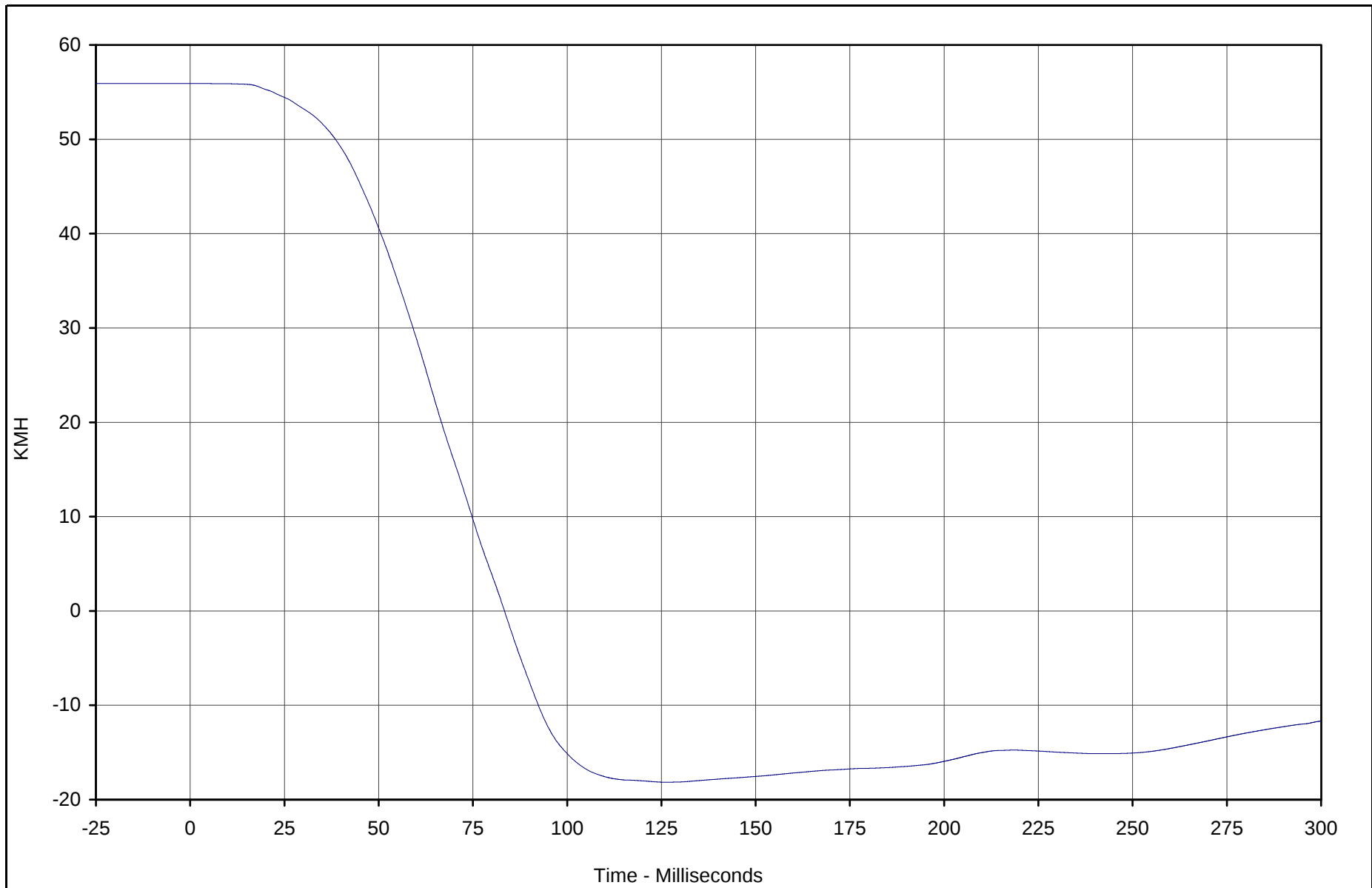


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Chest Redundant X Velocity	016	IN1	KMH	55.9	0.0	-18.2	126.1	180

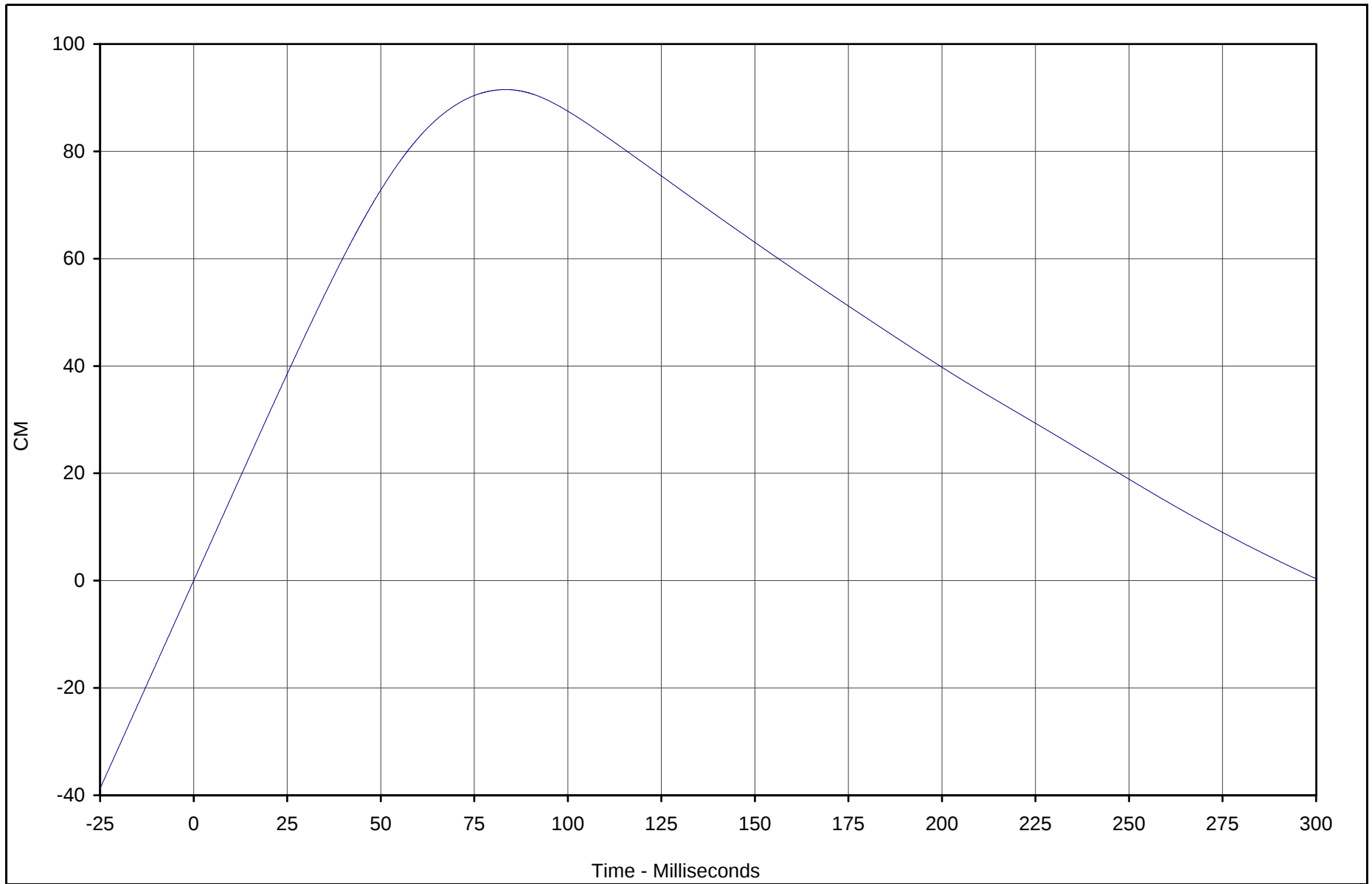


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Chest Redundant X Displ.	016	IN2	CM	91.5	83.4	0.0	0.0	180

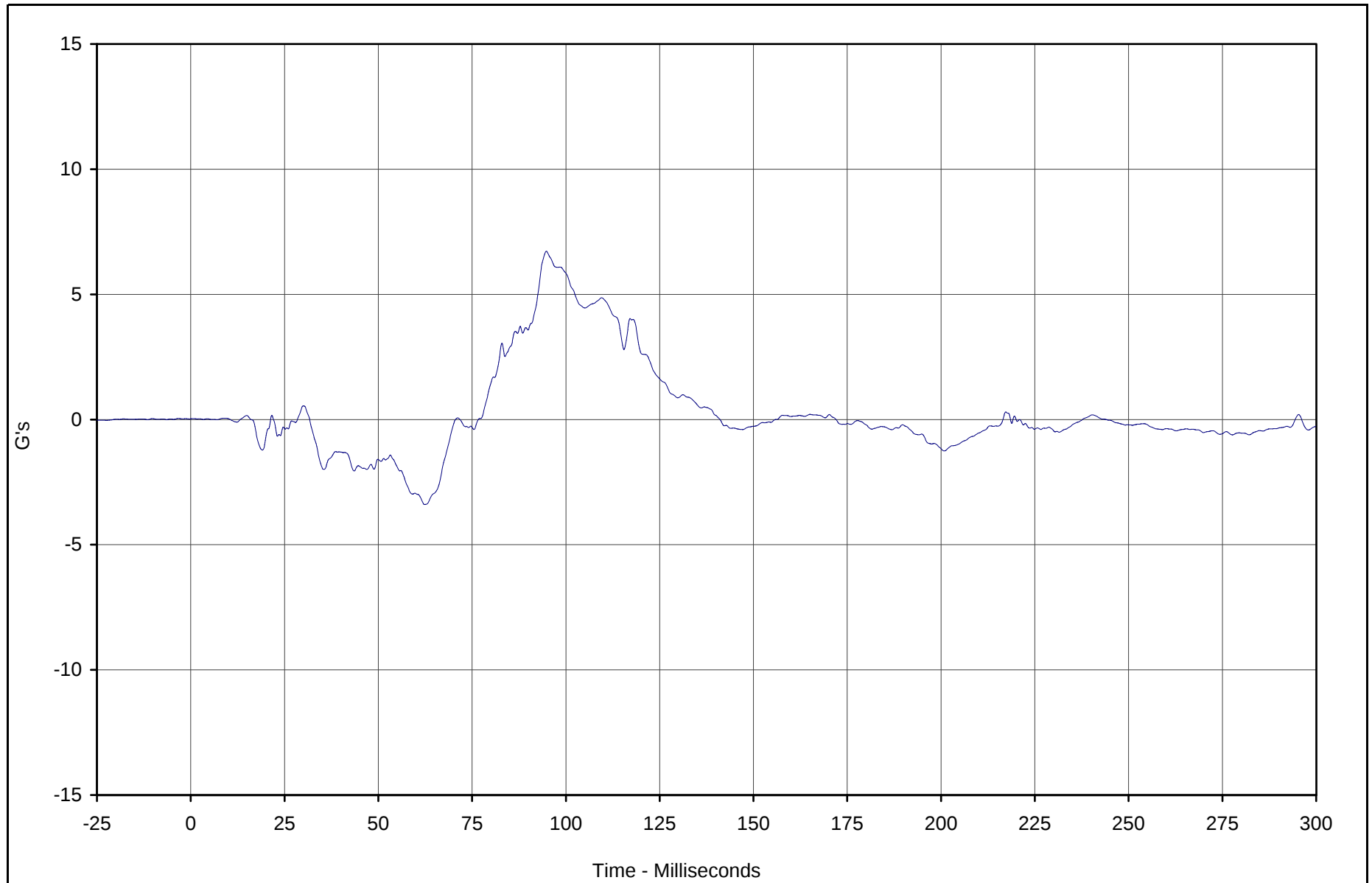


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Chest Redundant Y	017	FIL	G's	6.7	94.8	-3.4	62.3	180

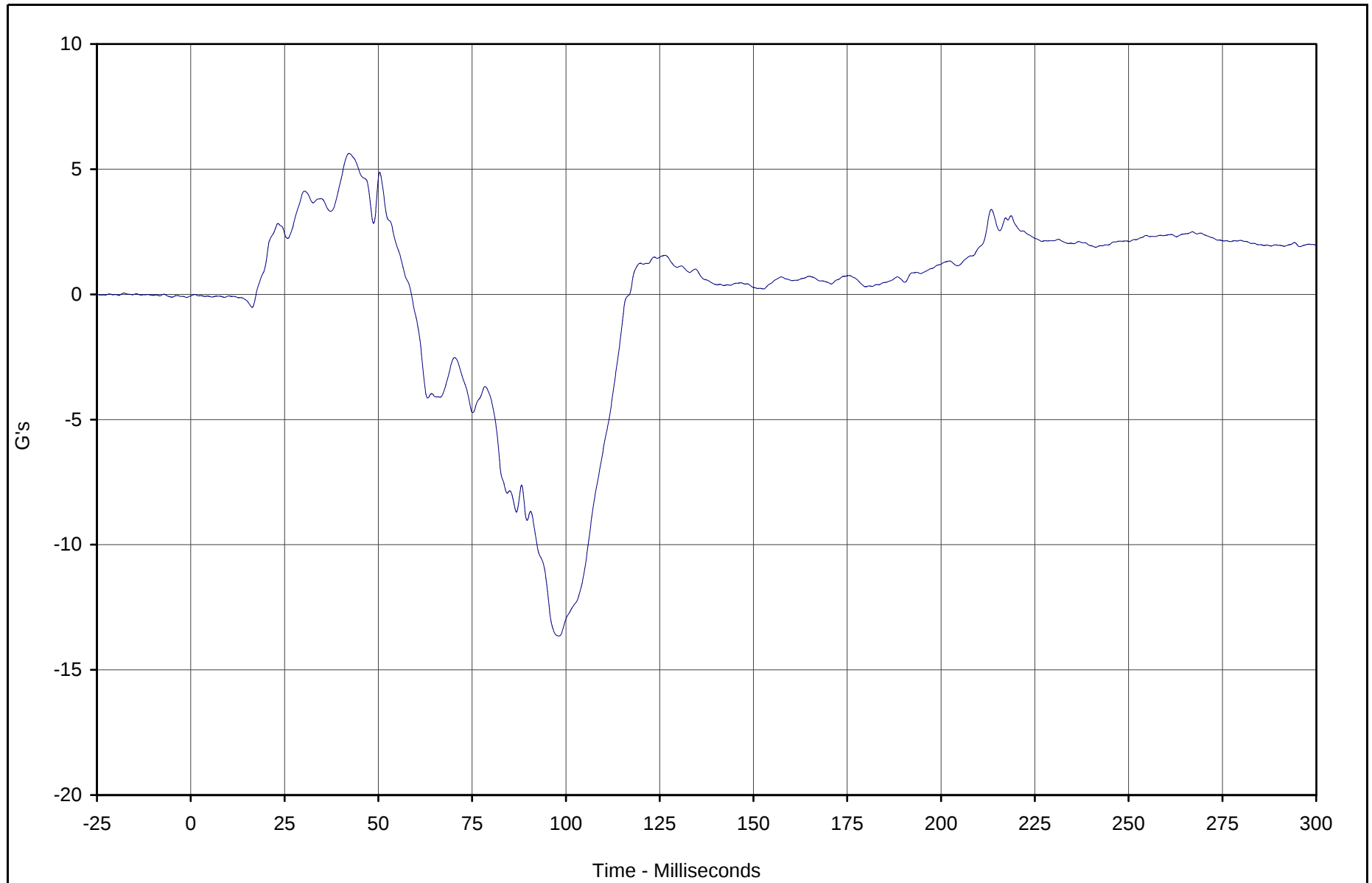


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Chest Redundant Z	018	FIL	G's	5.6	42.2	-13.7	98.2	180

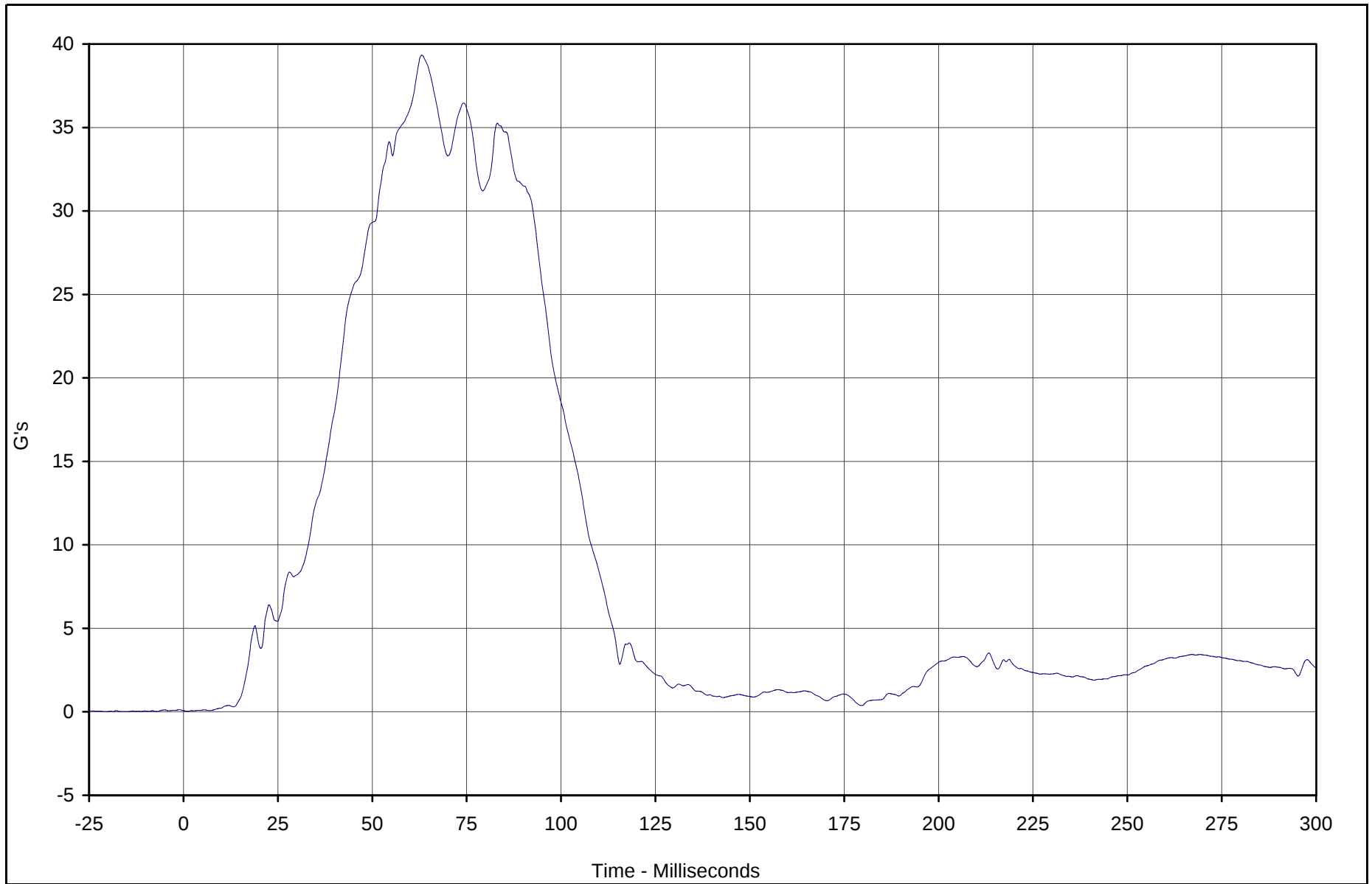


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Chest Resultant Redundant	016	RES	G's	39.3	63.1	0.0	1.2	180

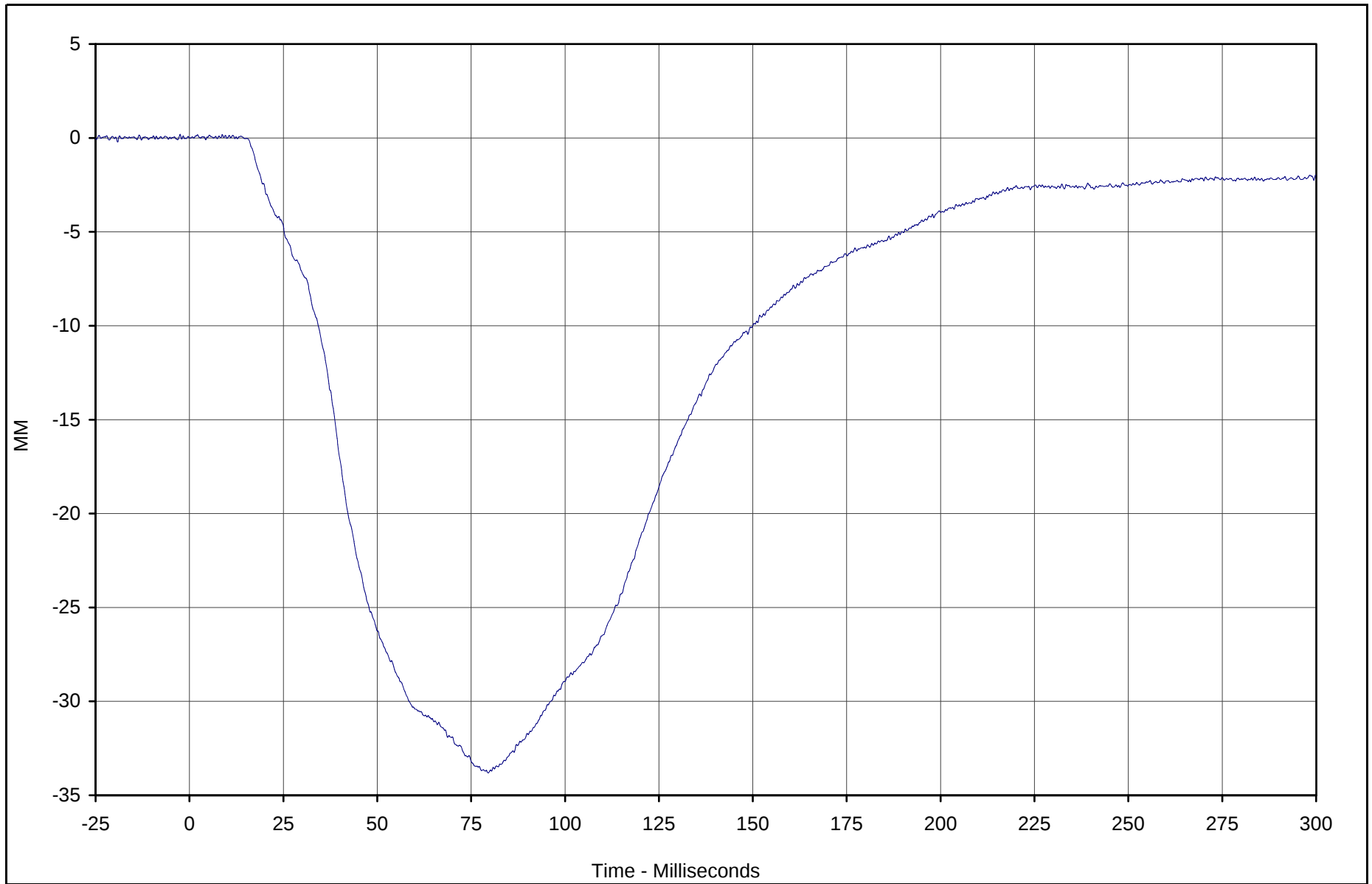


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Chest Displacement X	019	FIL	MM	0.2	8.7	-33.8	79.5	600

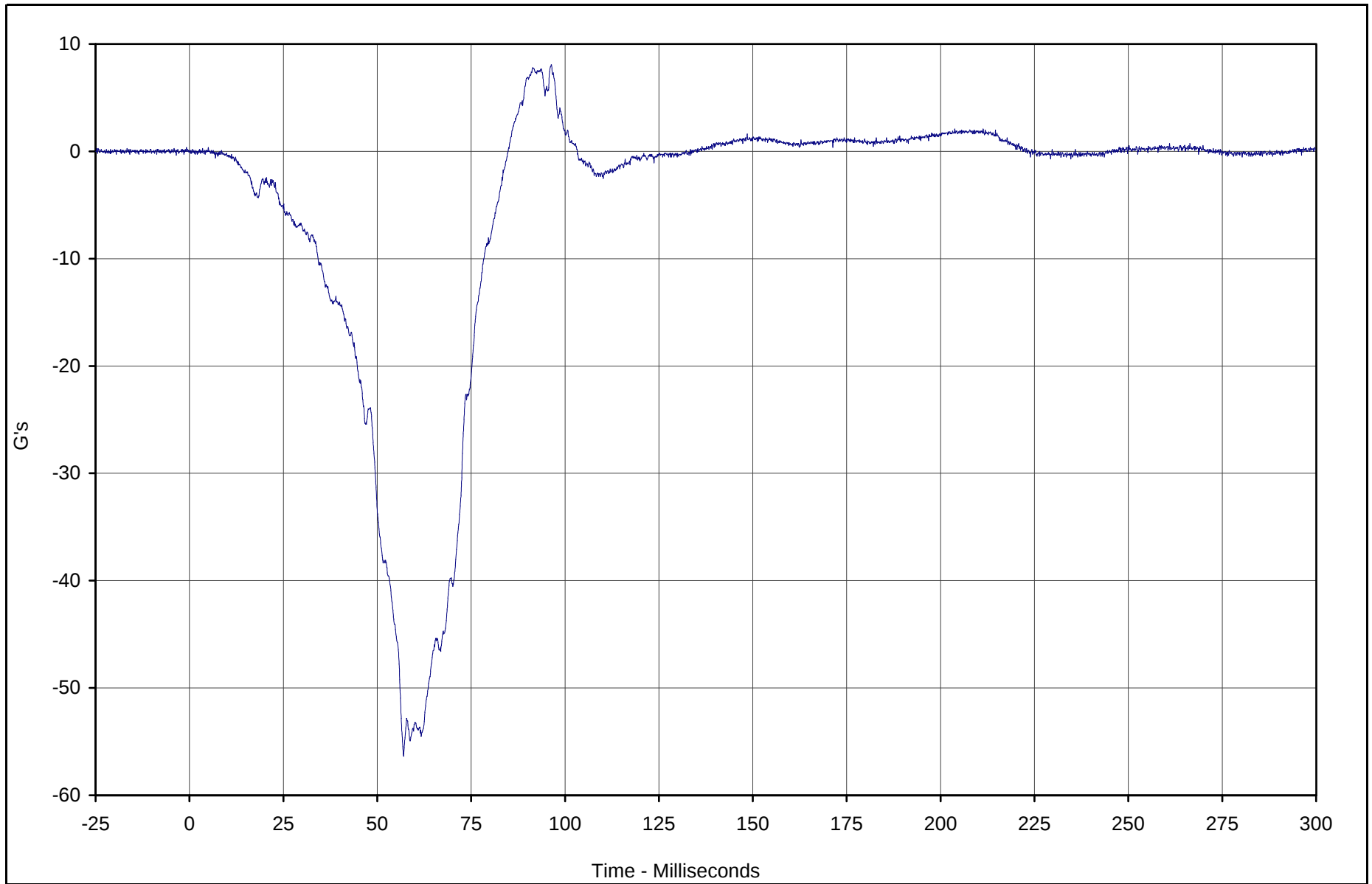


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Pelvis X	020	FIL	G's	8.1	96.3	-56.4	57.0	1000

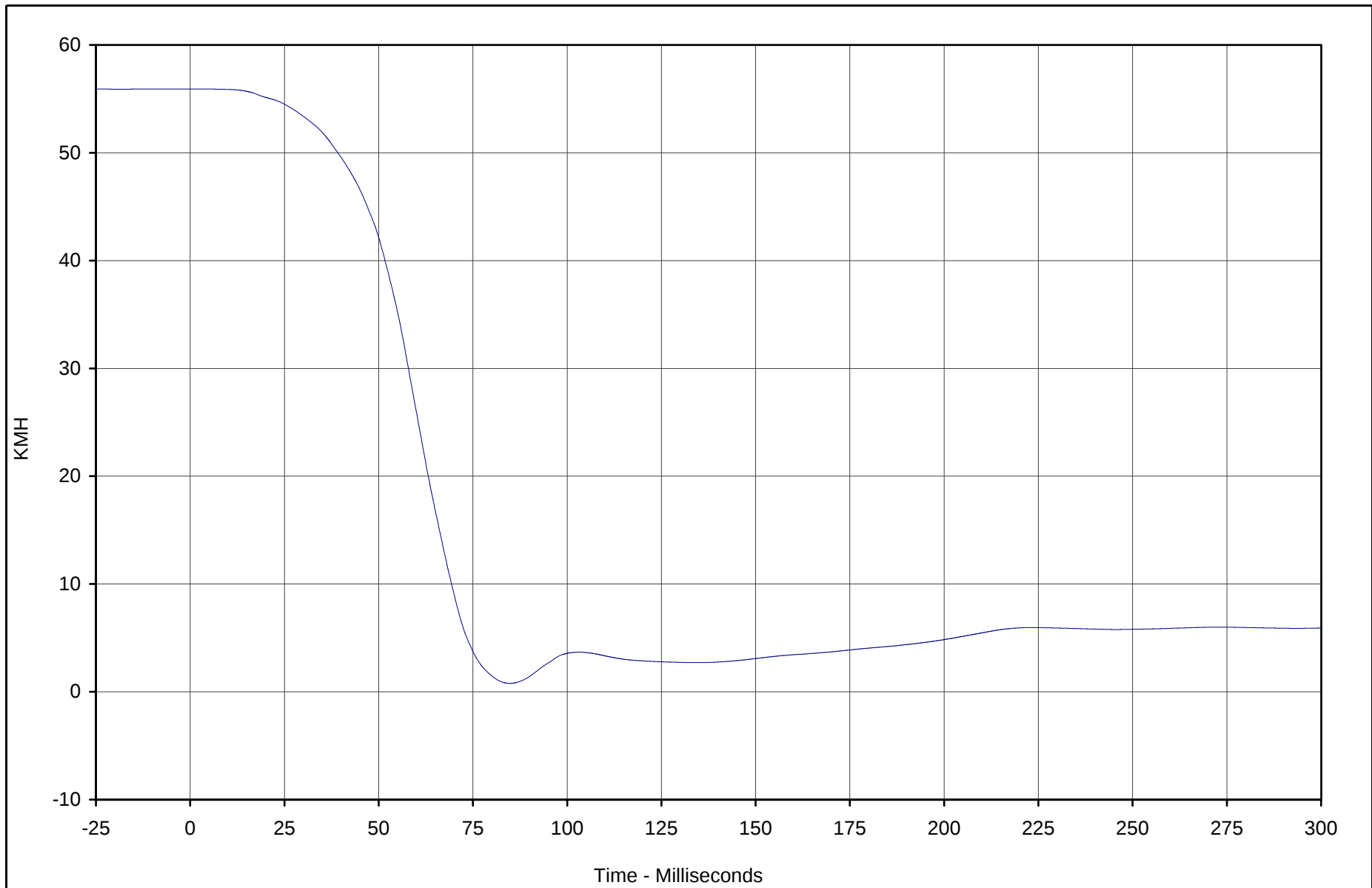


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Pelvis X Velocity	020	IN1	KMH	55.9	0.2	0.8	84.8	180

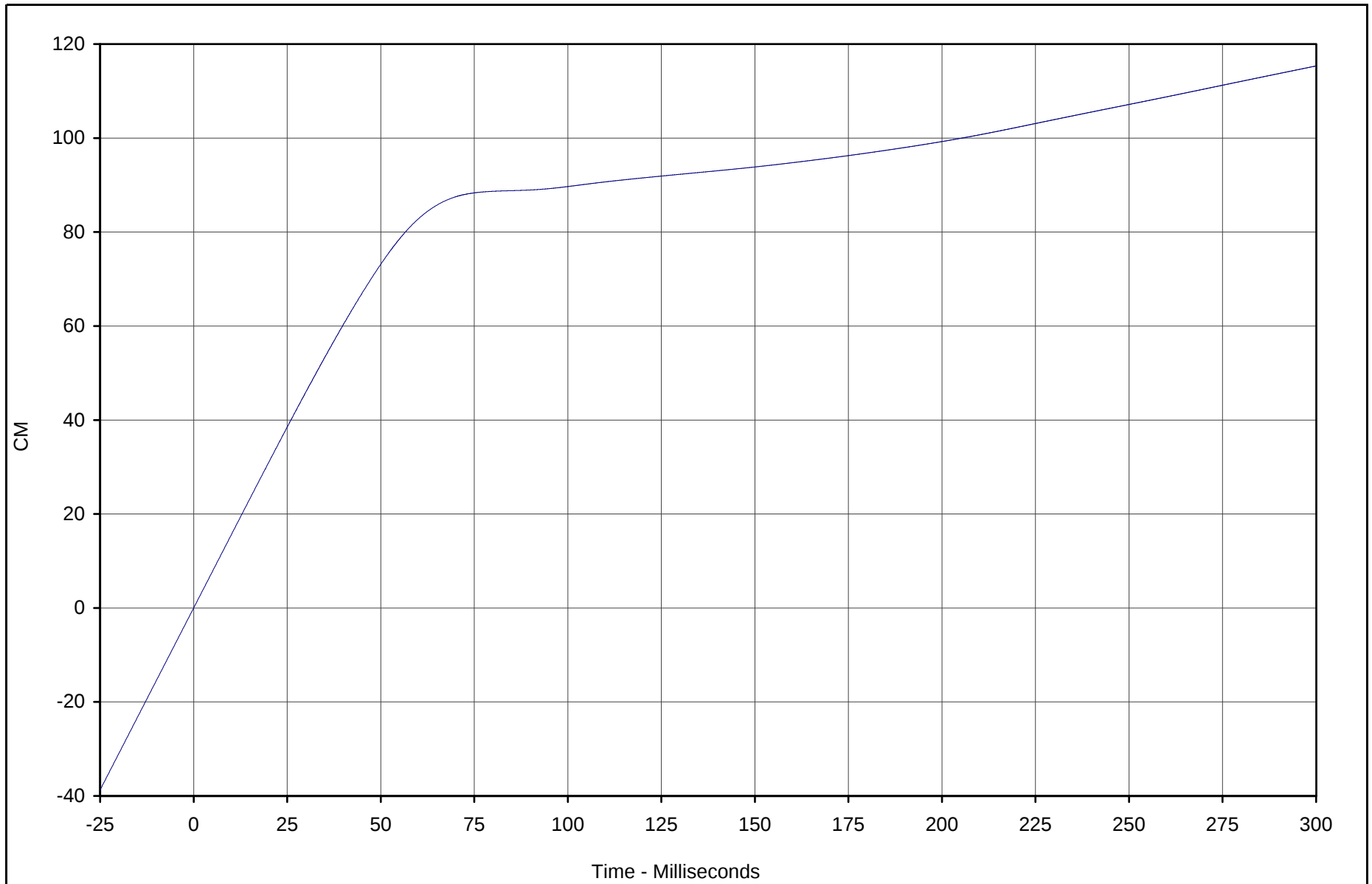


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Pelvis X Displ.	020	IN2	CM	115.3	299.9	0.0	0.0	180

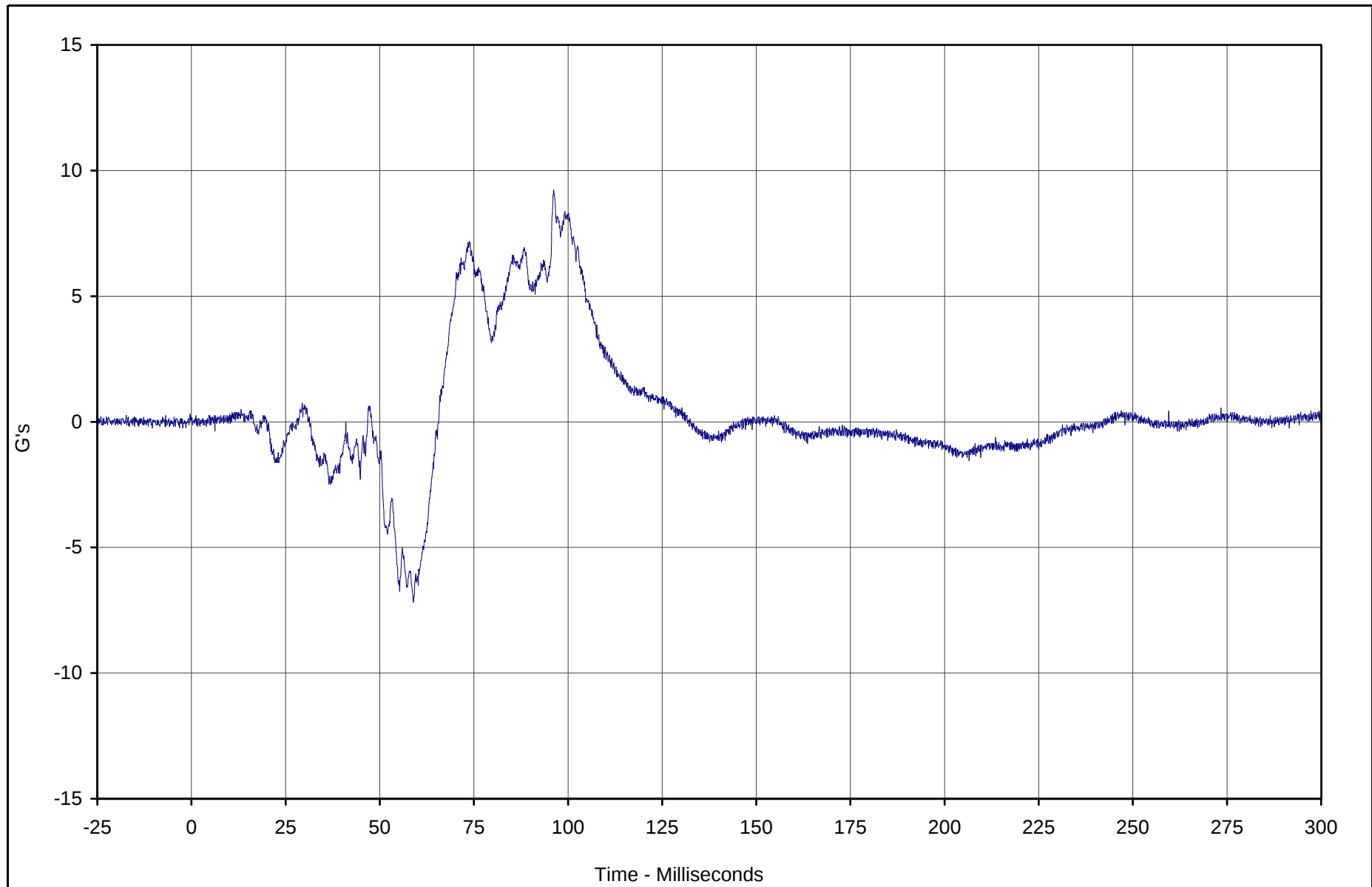


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Pelvis Y	021	FIL	G's	9.2	96.2	-7.2	58.9	1000

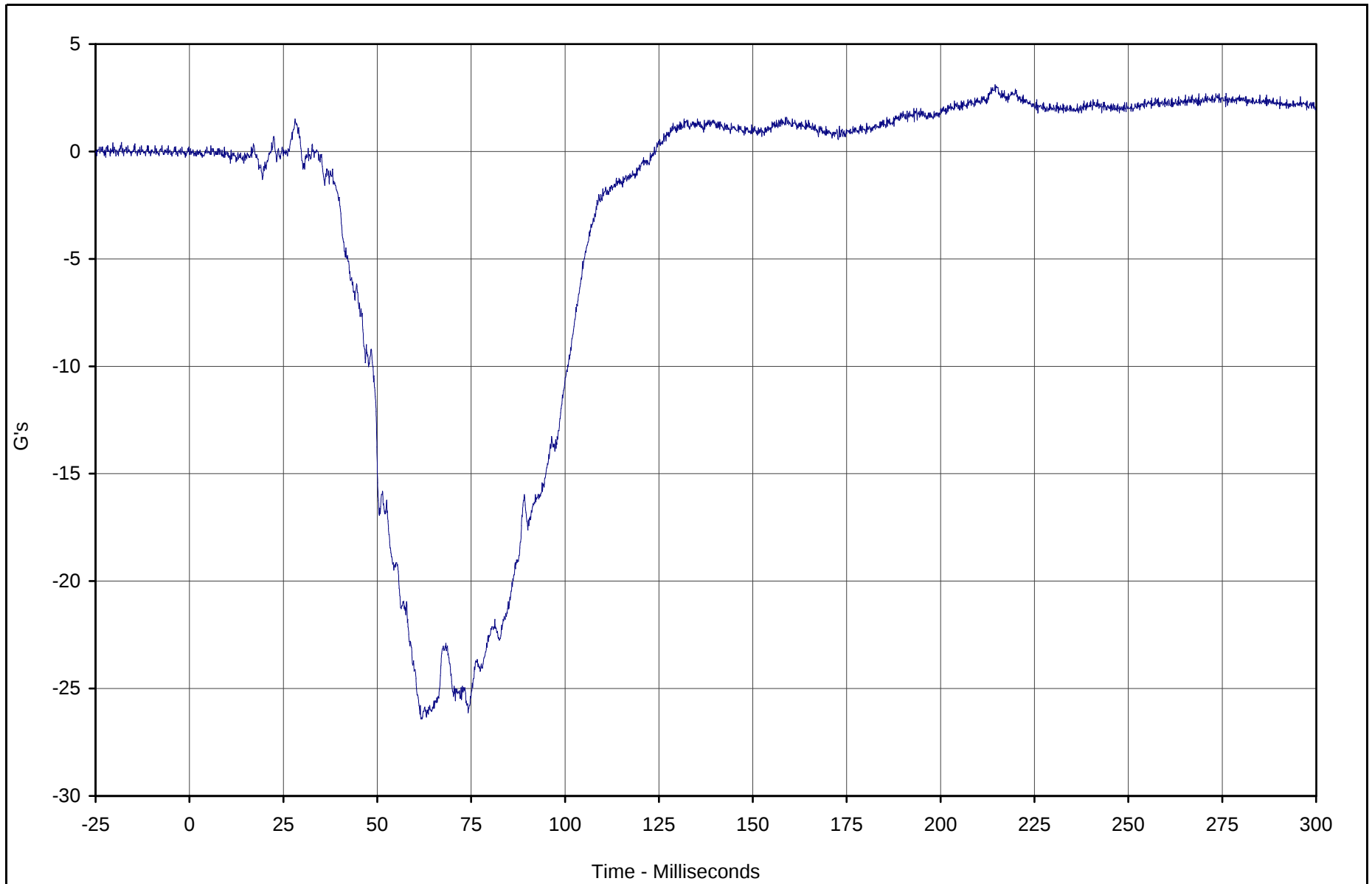


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Pelvis Z	022	FIL	G's	3.1	214.5	-26.4	61.6	1000

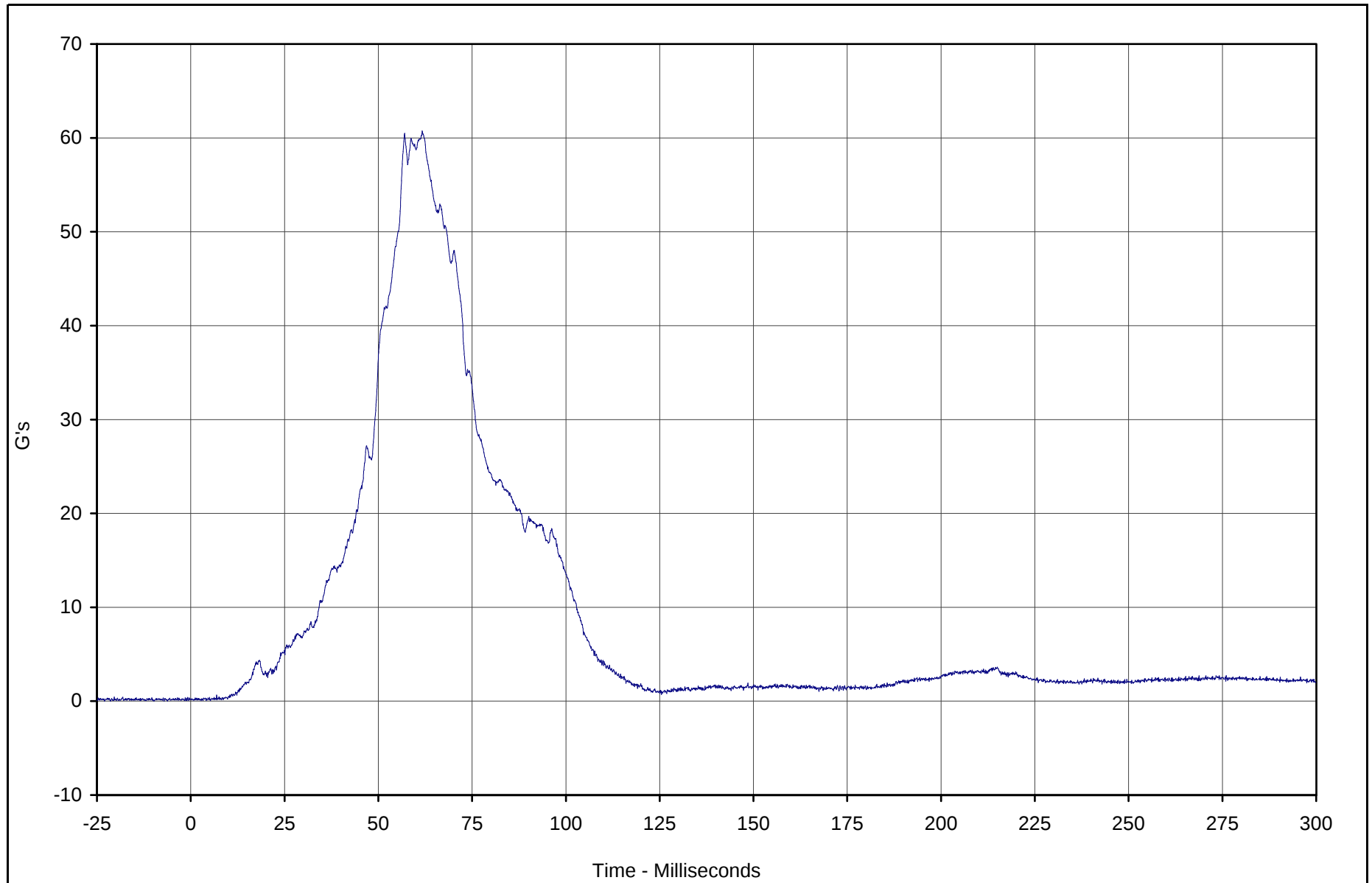


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Pelvis Resultant	023	RES	G's	60.8	61.7	0.1	4.1	1000

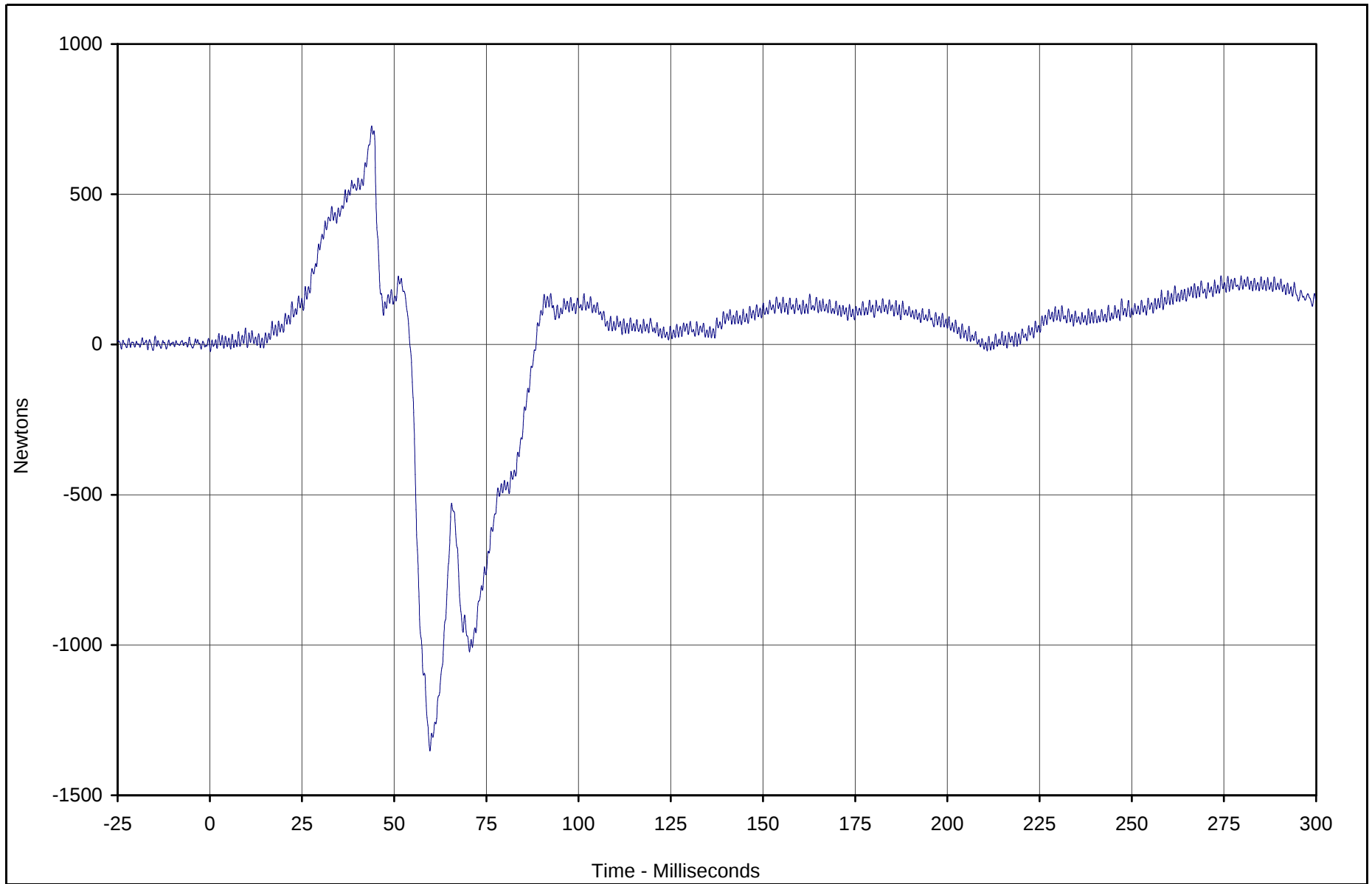


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Left Femur Force	023	FIL	Newtons	727.2	43.9	-1352.8	59.7	600

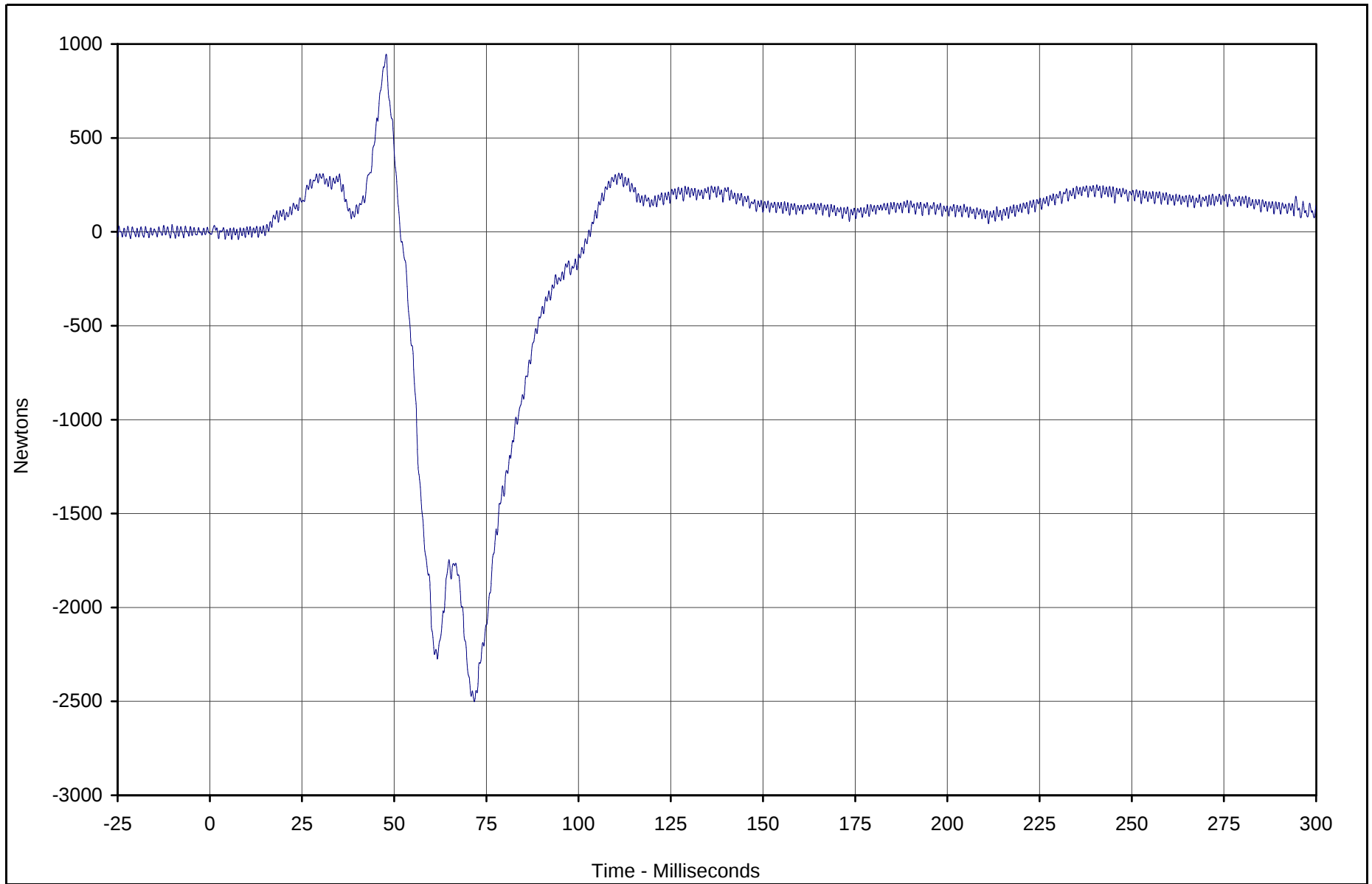


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Right Femur Force	024	FIL	Newtons	946.2	47.8	-2501.4	71.7	600

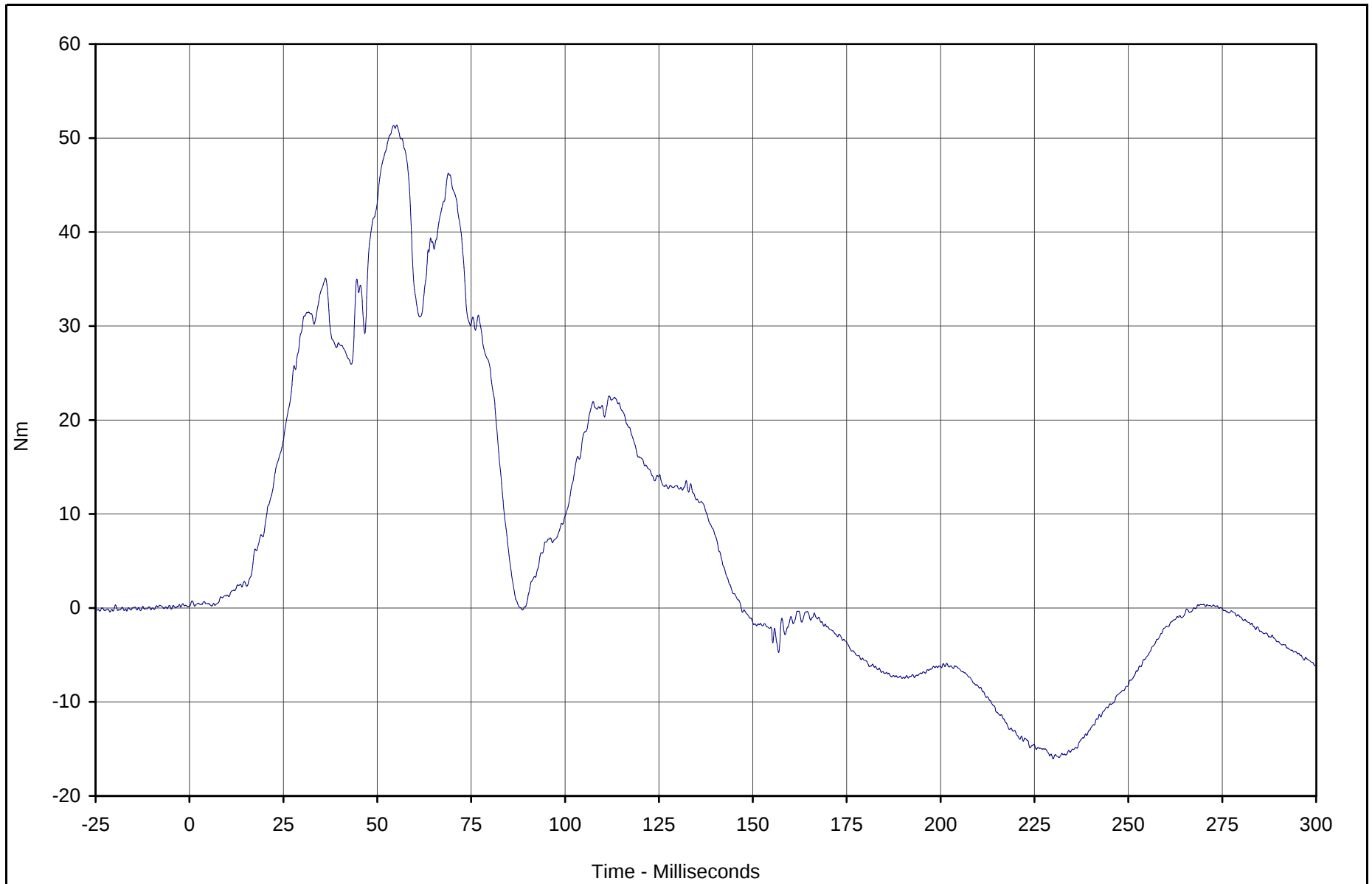


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Left Upper Tibia Moment X	025	FIL	Nm	51.4	55.2	-16.1	230.0	600

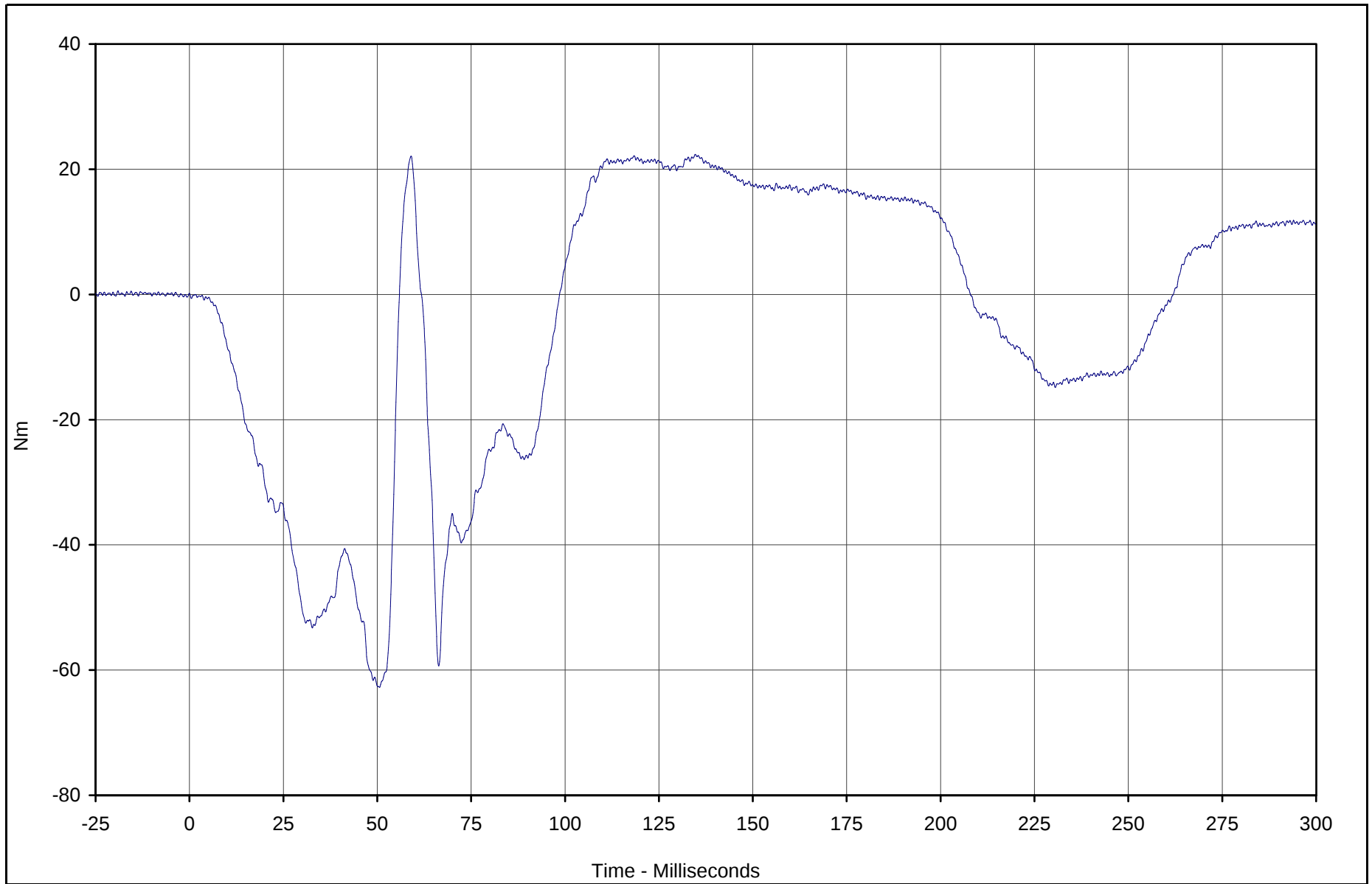


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Left Upper Tibia Moment Y	026	FIL	Nm	22.4	134.7	-62.8	50.6	600

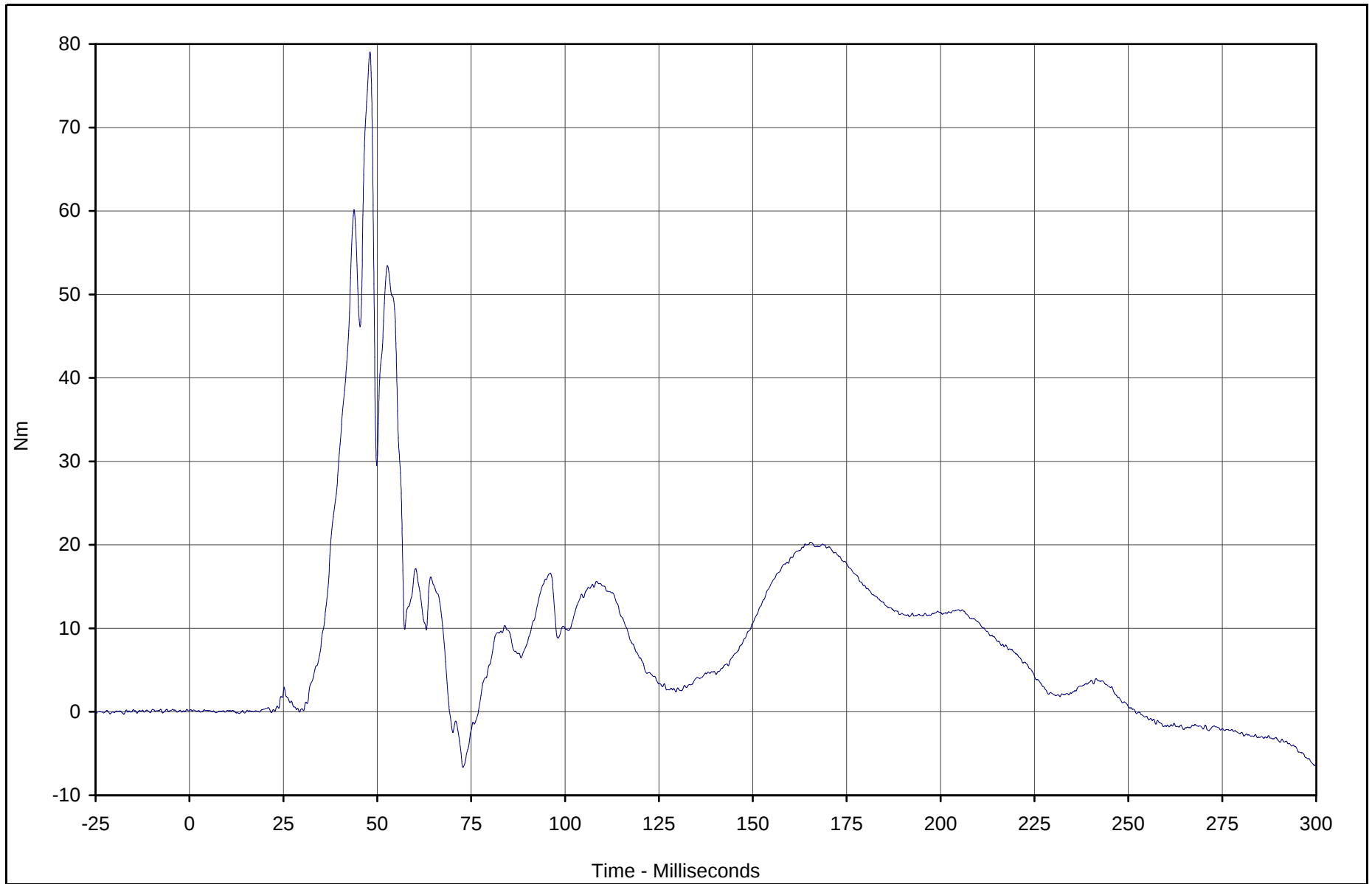


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Right Upper Tibia Moment X	027	FIL	Nm	79.0	48.1	-6.7	72.8	600

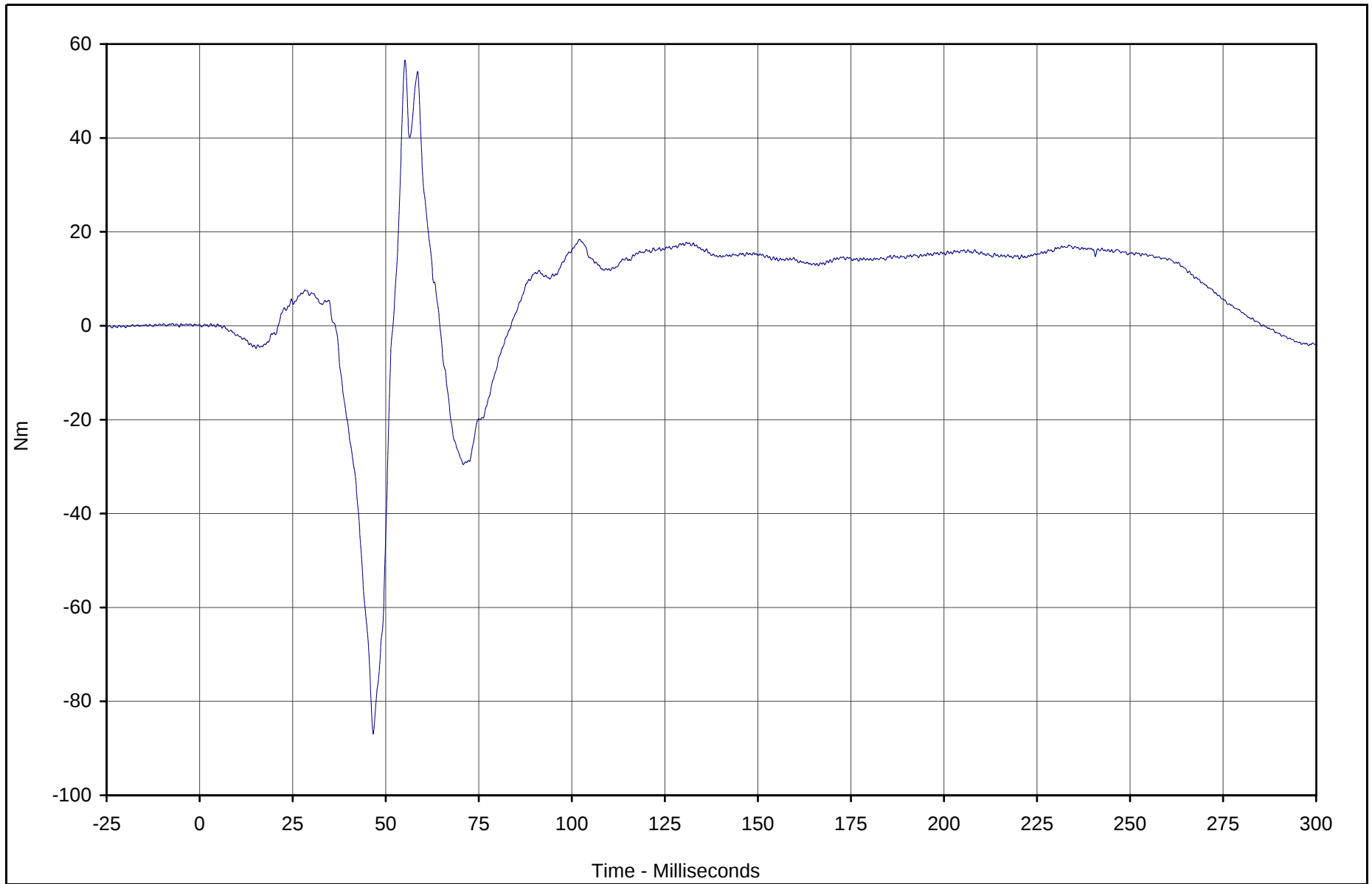


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Right Upper Tibia Moment Y	028	FIL	Nm	56.6	55.2	-86.9	46.6	600

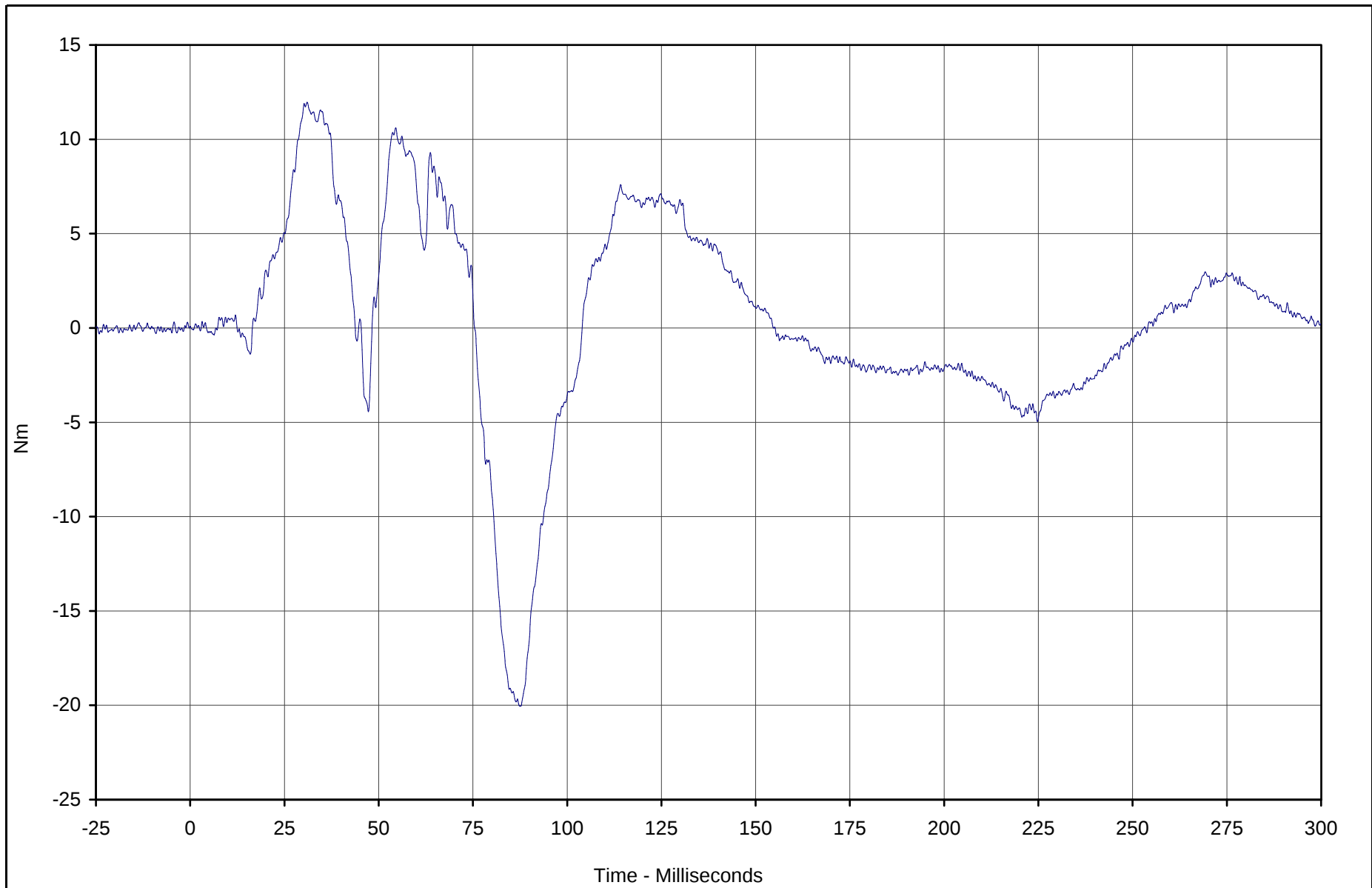


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Left Lower Tibia Moment X	029	FIL	Nm	12.0	31.0	-20.0	87.7	600

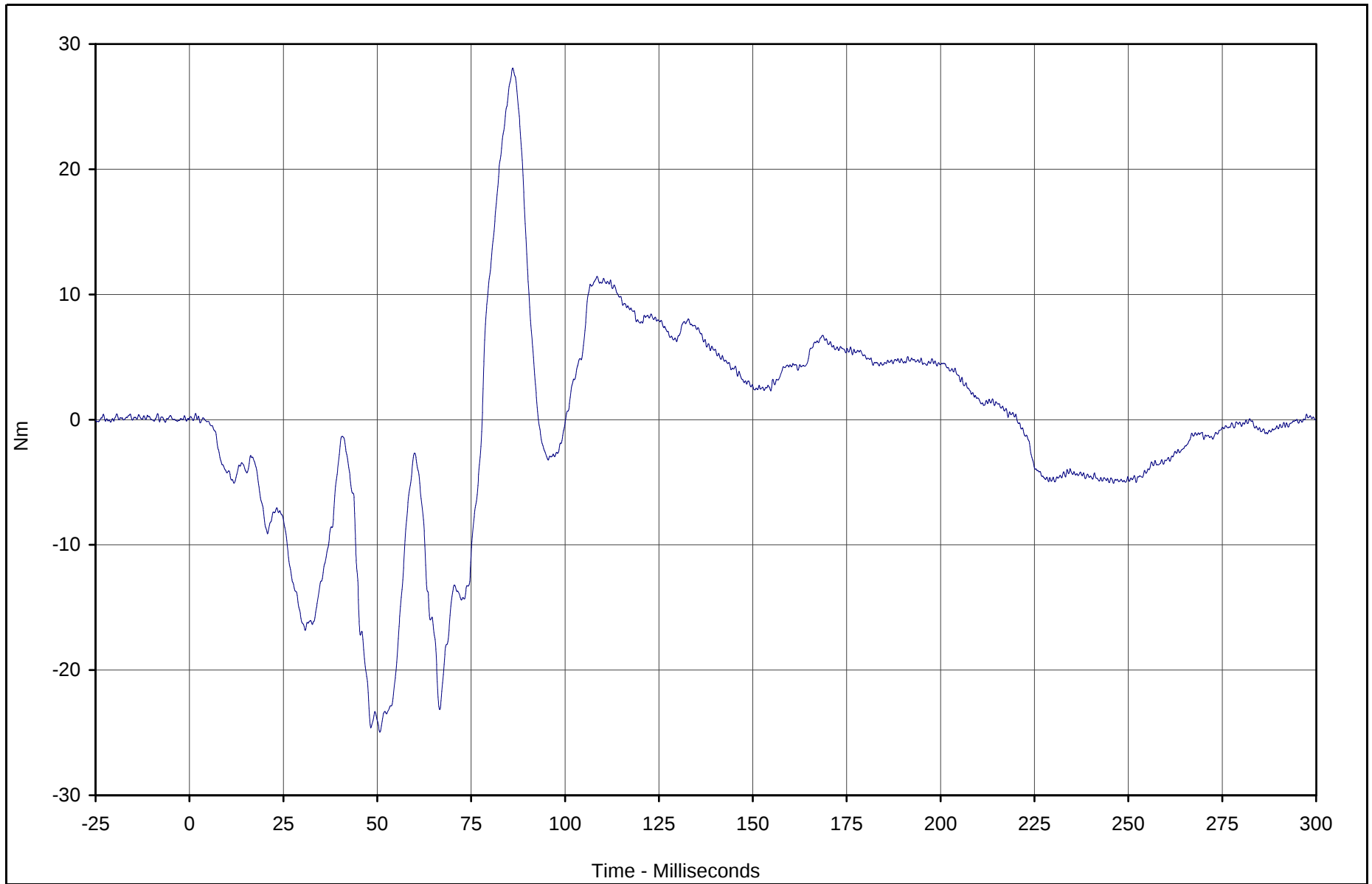


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Left Lower Tibia Moment Y	030	FIL	Nm	28.1	86.1	-25.0	50.7	600

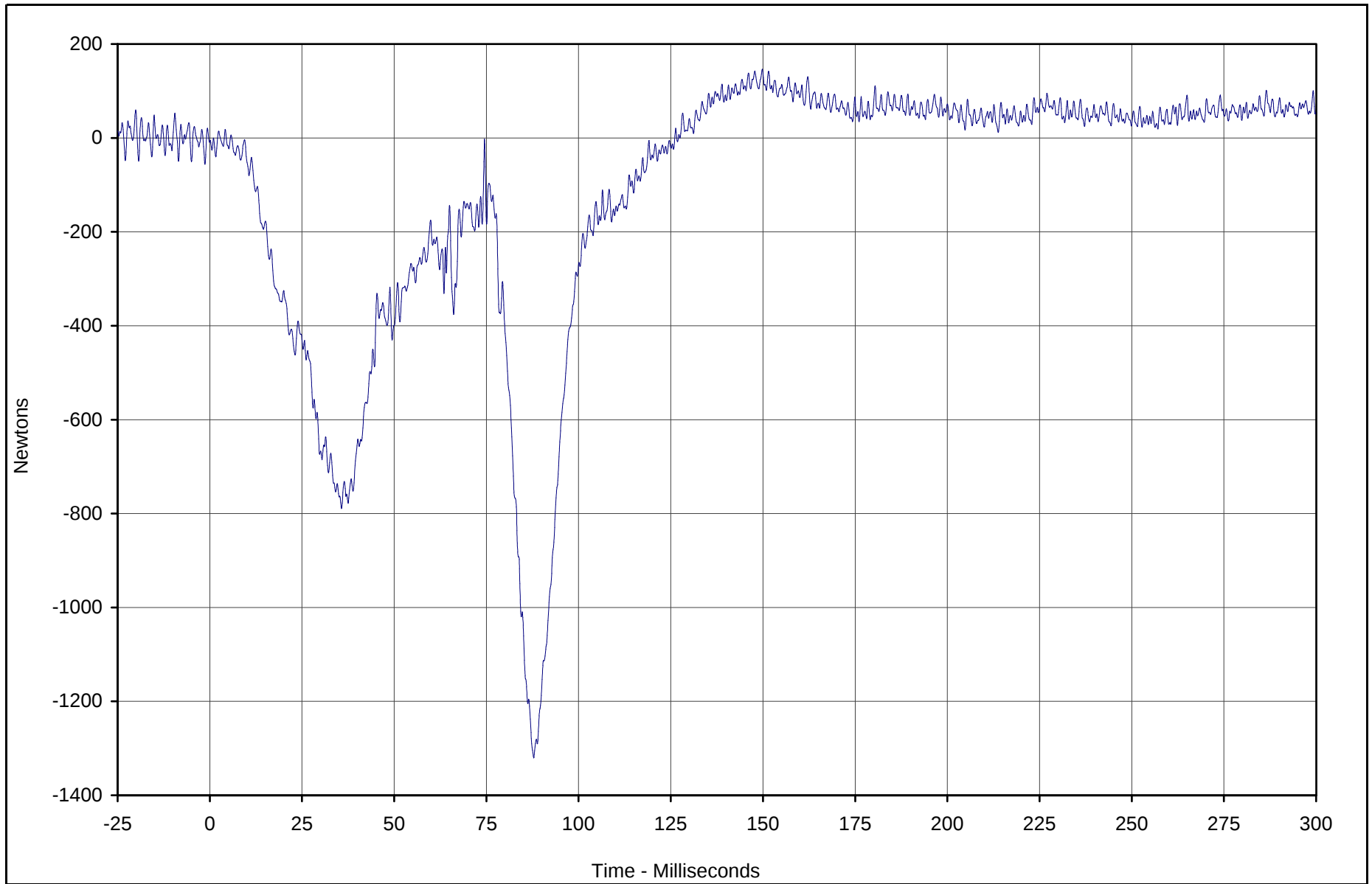


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Left Lower Tibia Force Z	031	FIL	Newtons	146.3	149.8	-1320.3	87.8	600

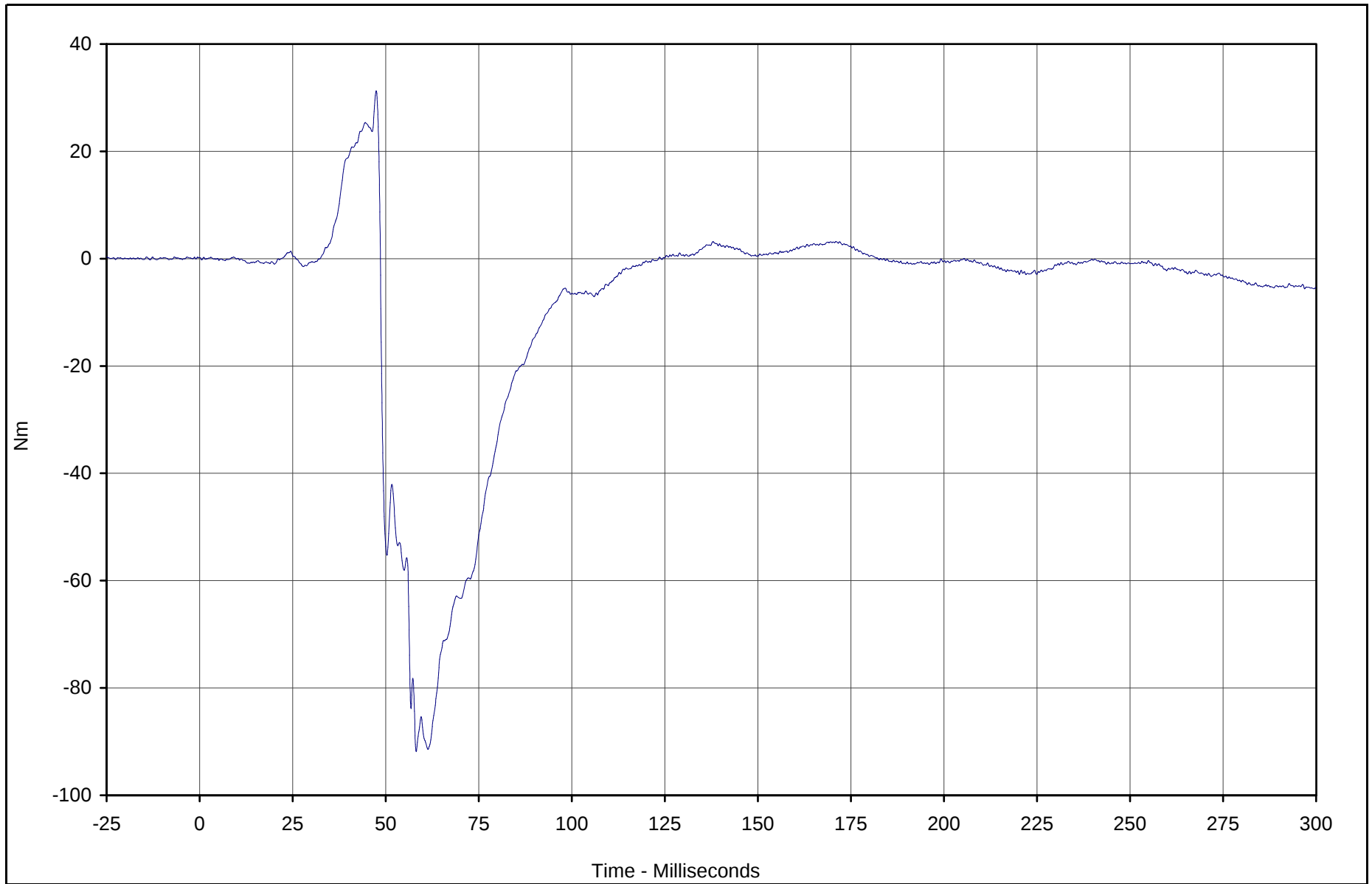


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Right Lower Tibia Moment X	032	FIL	Nm	31.3	47.4	-91.8	58.2	600



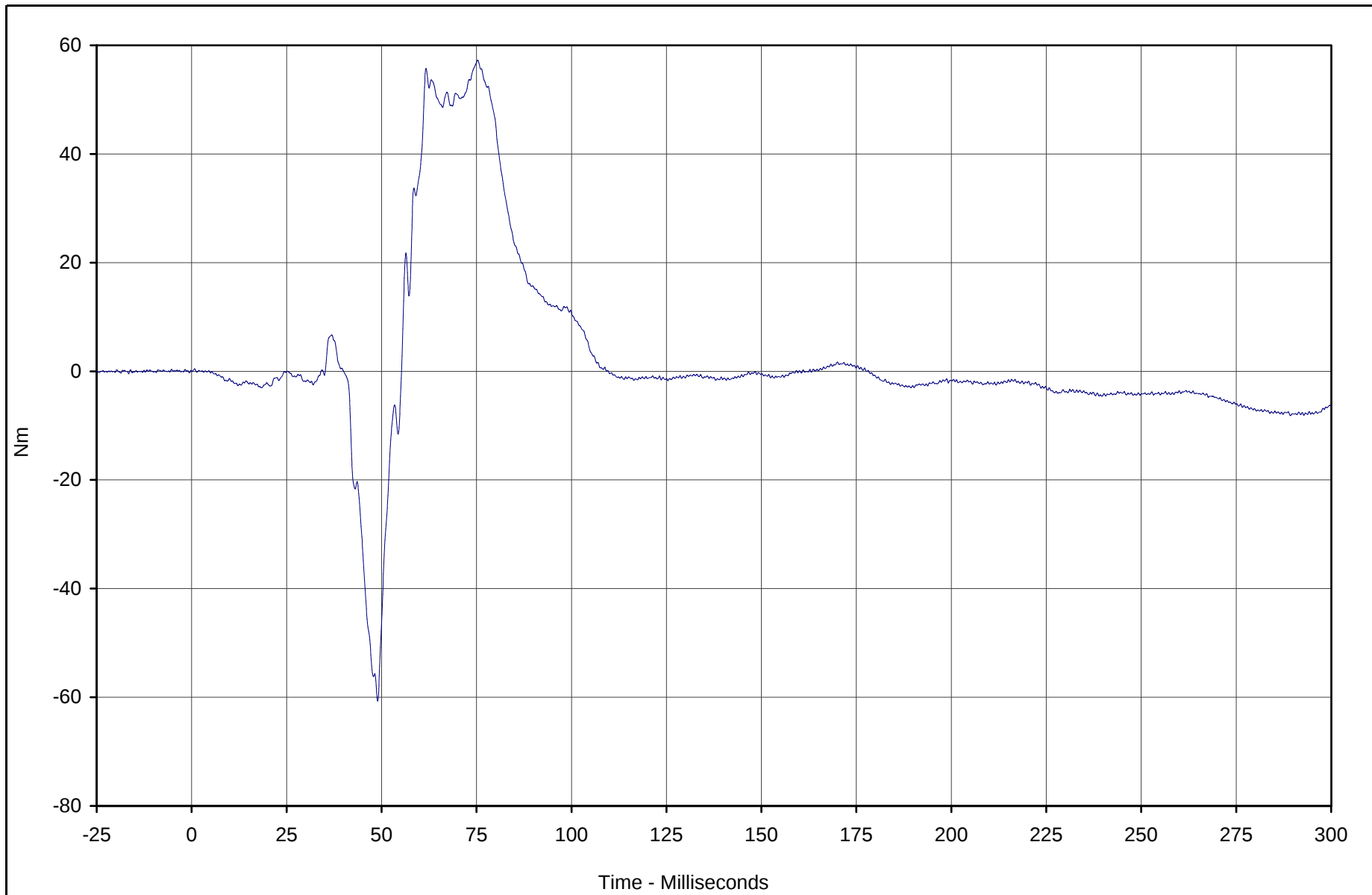
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

B-50



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Right Lower Tibia Moment Y	033	FIL	Nm	57.3	75.3	-60.7	49.0	600



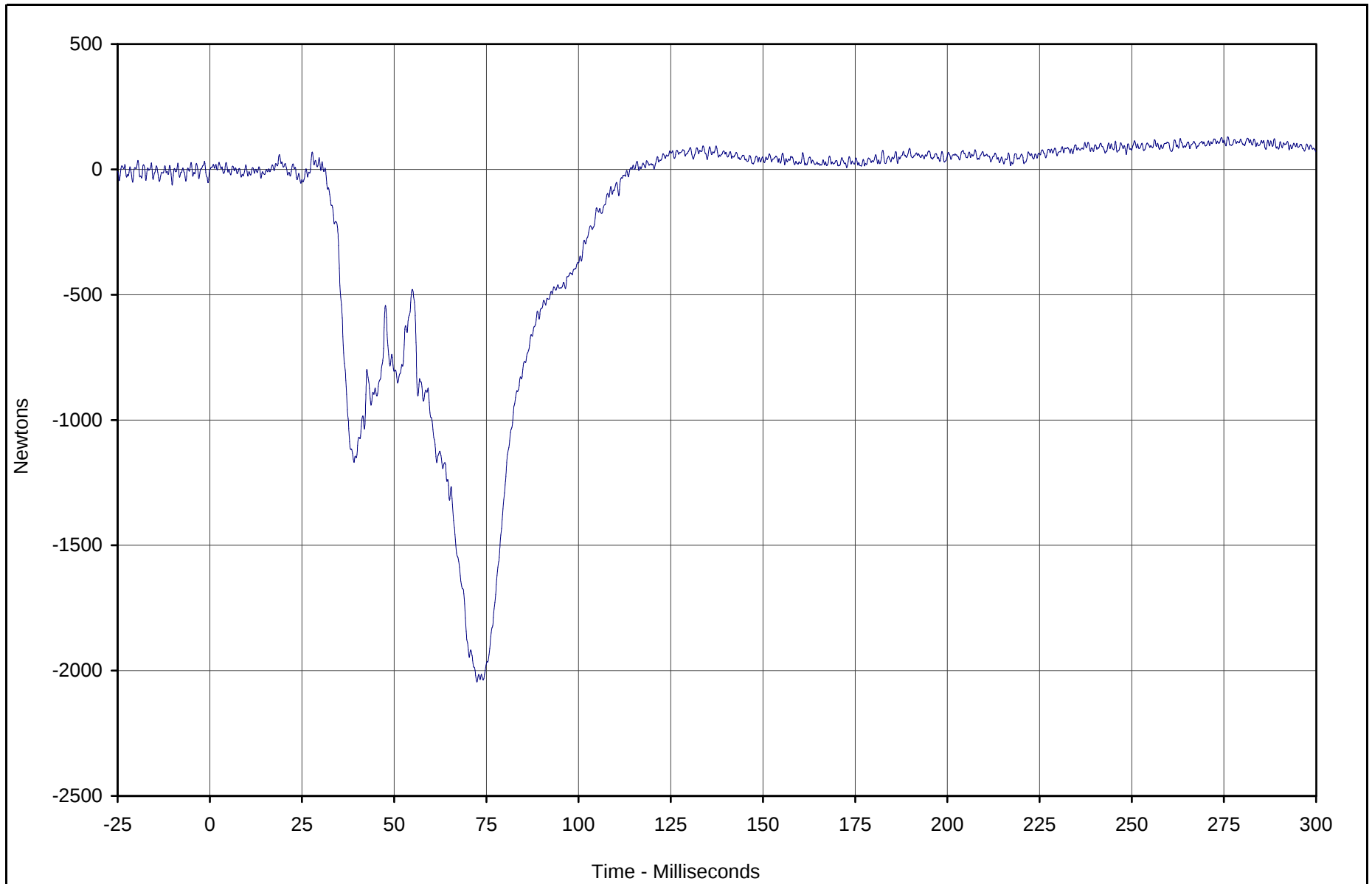
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Right Lower Tibia Force Z	034	FIL	Newtons	130.2	276.0	-2045.1	72.4	600

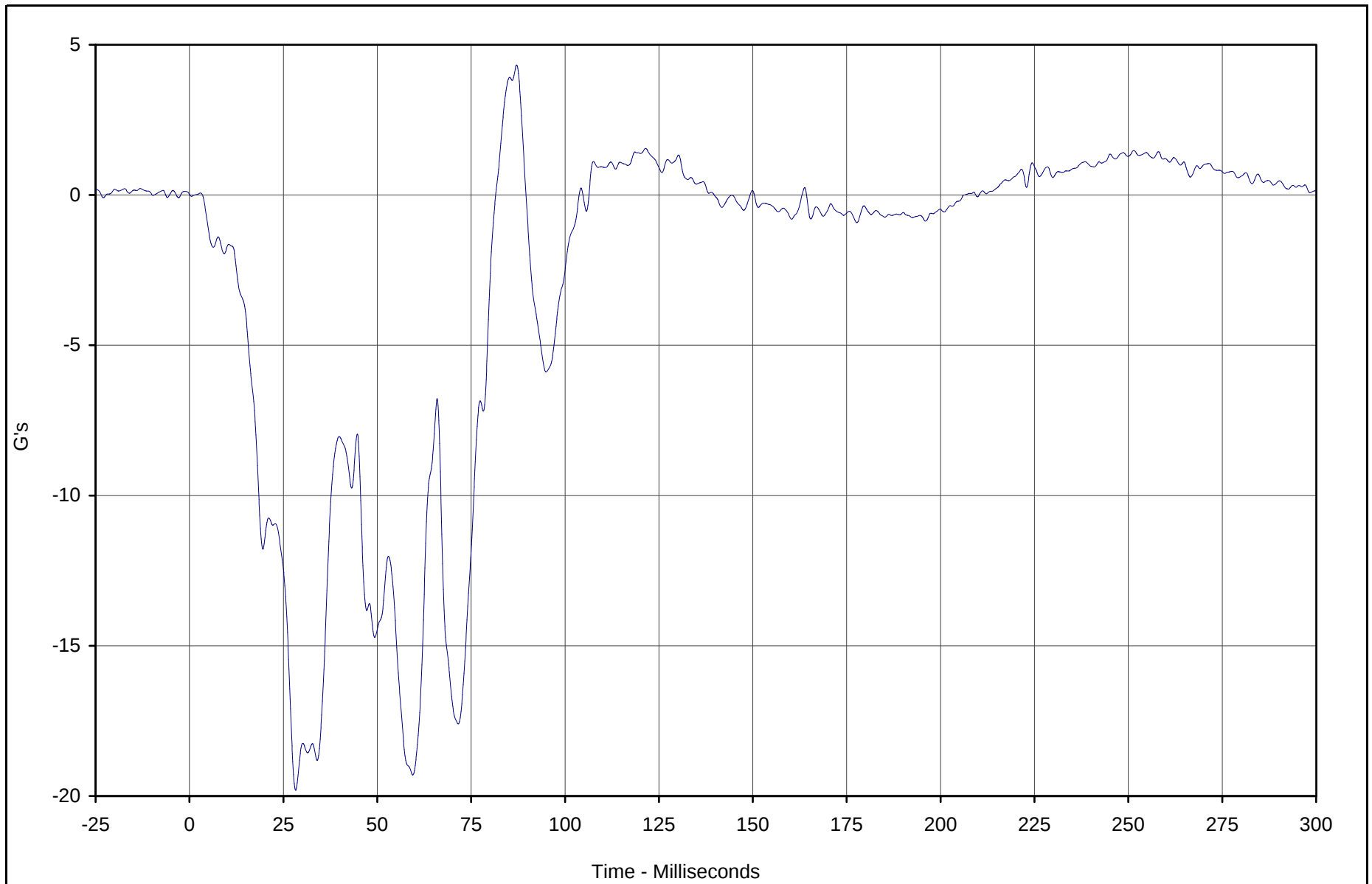


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Left Foot Aft X	035	FIL	G's	4.3	87.1	-19.8	28.3	180

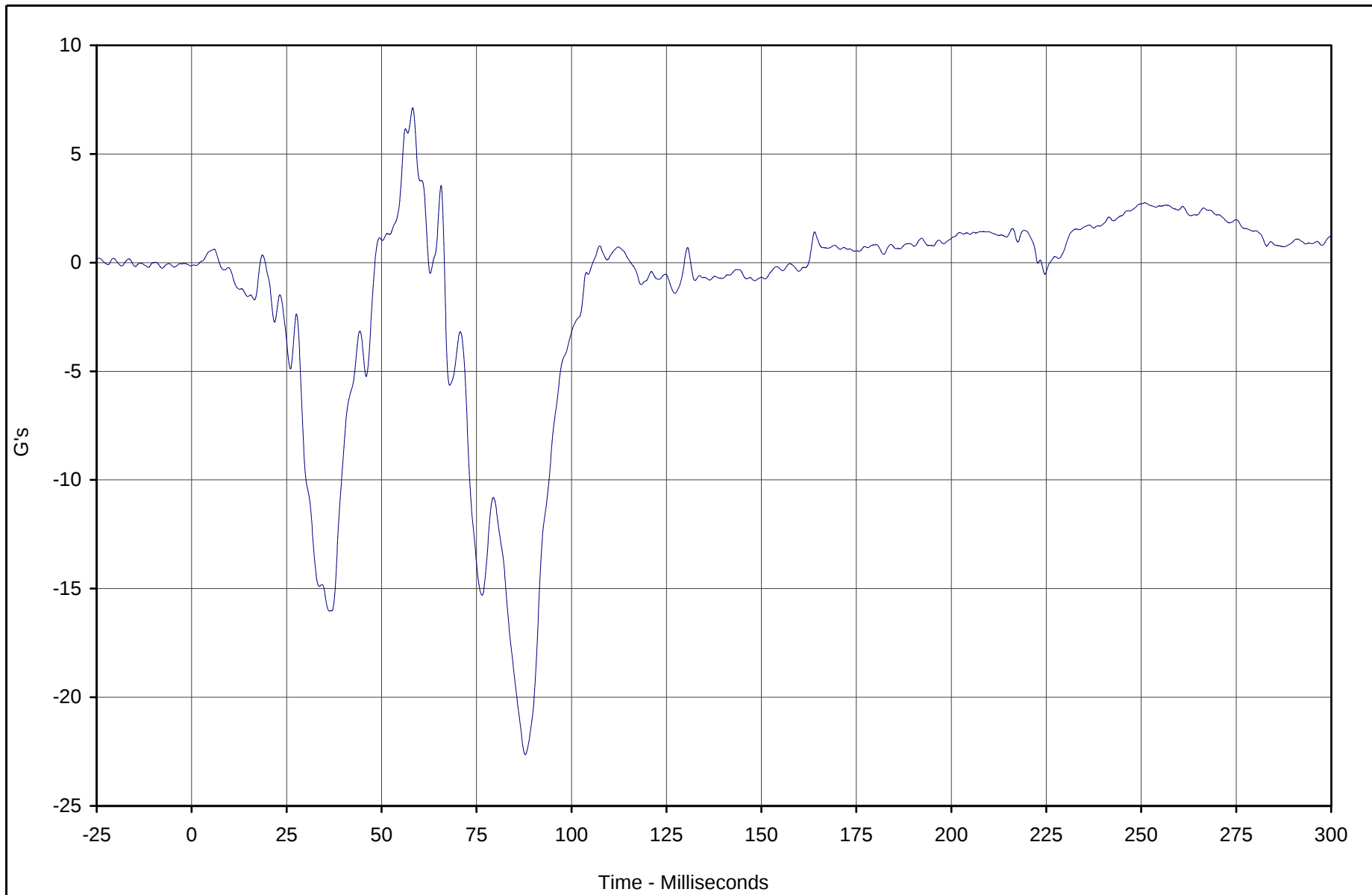


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Left Foot Aft Z	036	FIL	G's	7.1	58.2	-22.6	87.8	180

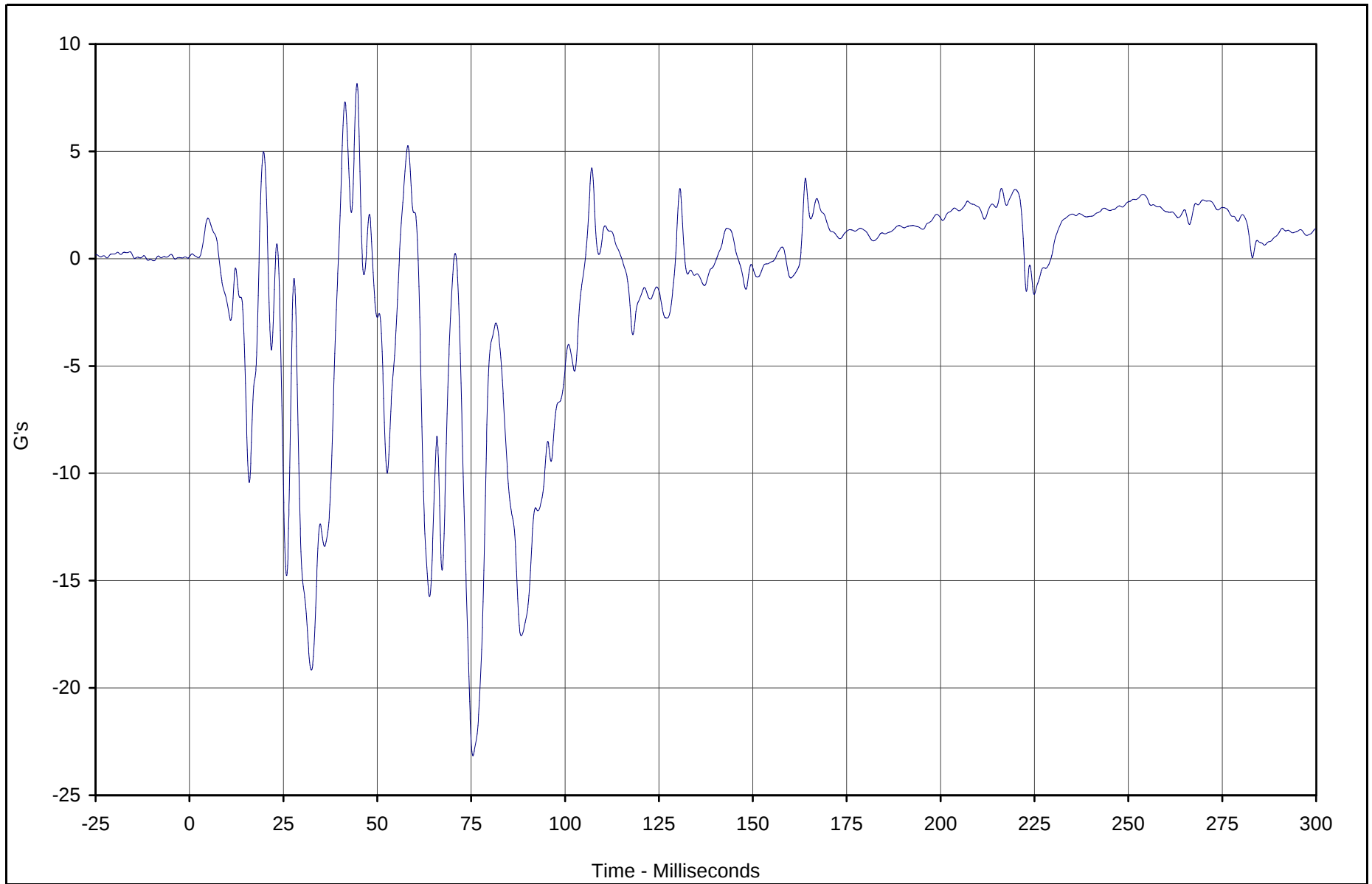


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Left Foot Fore Z	037	FIL	G's	8.2	44.6	-23.2	75.5	180



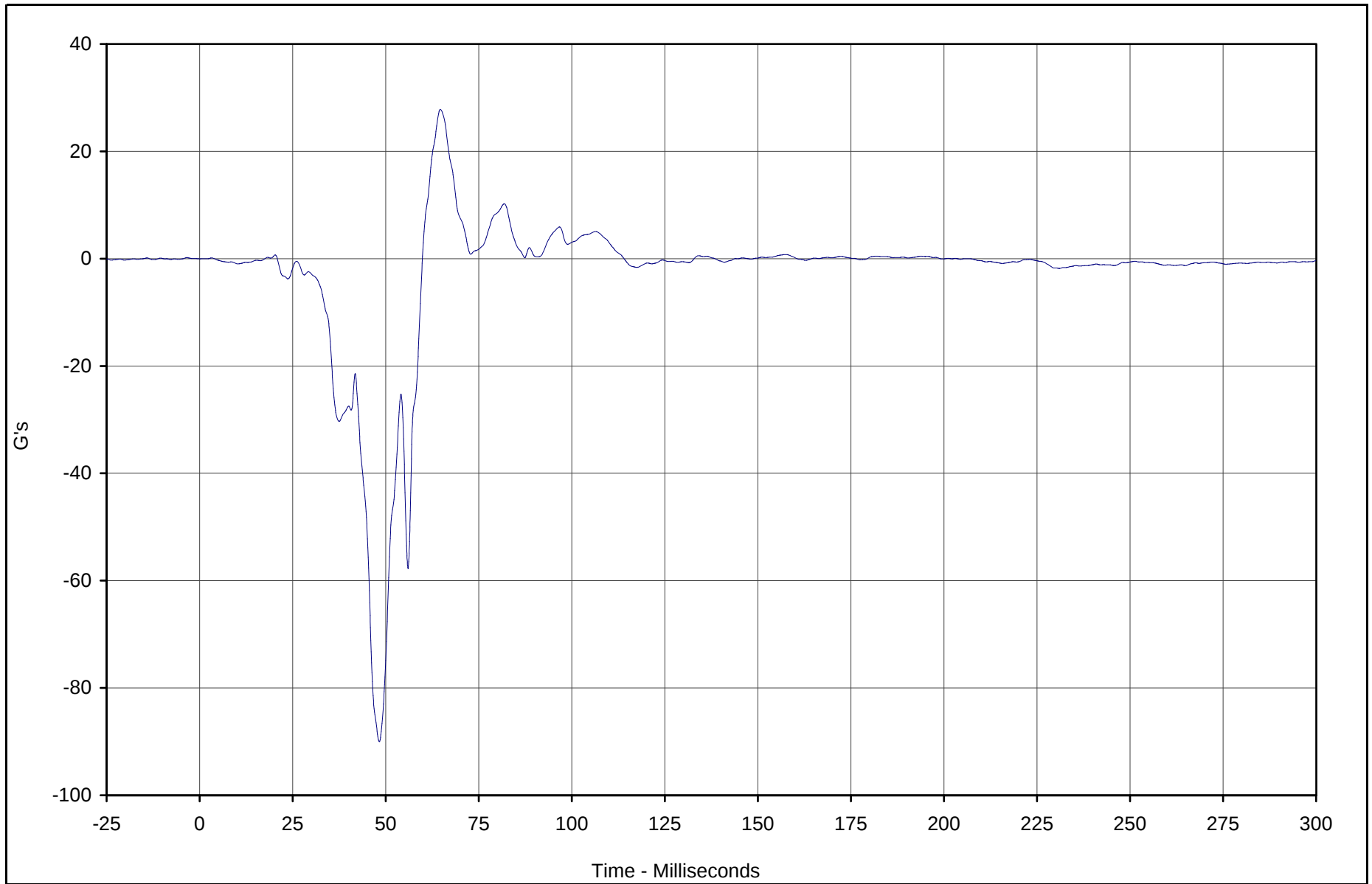
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

B-55



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Right Foot Aft X	038	FIL	G's	27.8	64.7	-90.0	48.3	180



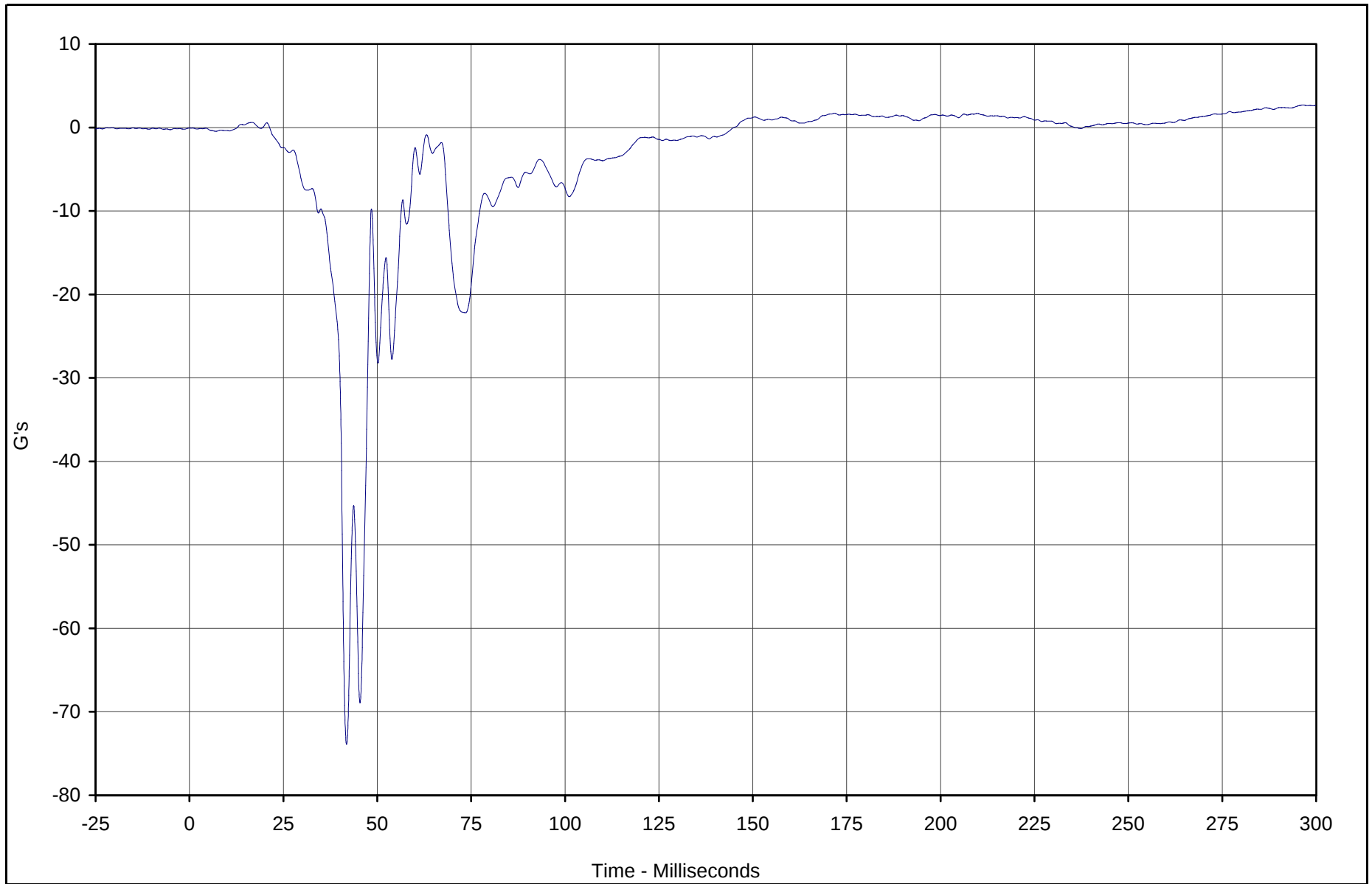
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Right Foot Aft Z	039	FIL	G's	2.7	296.6	-73.9	41.8	180



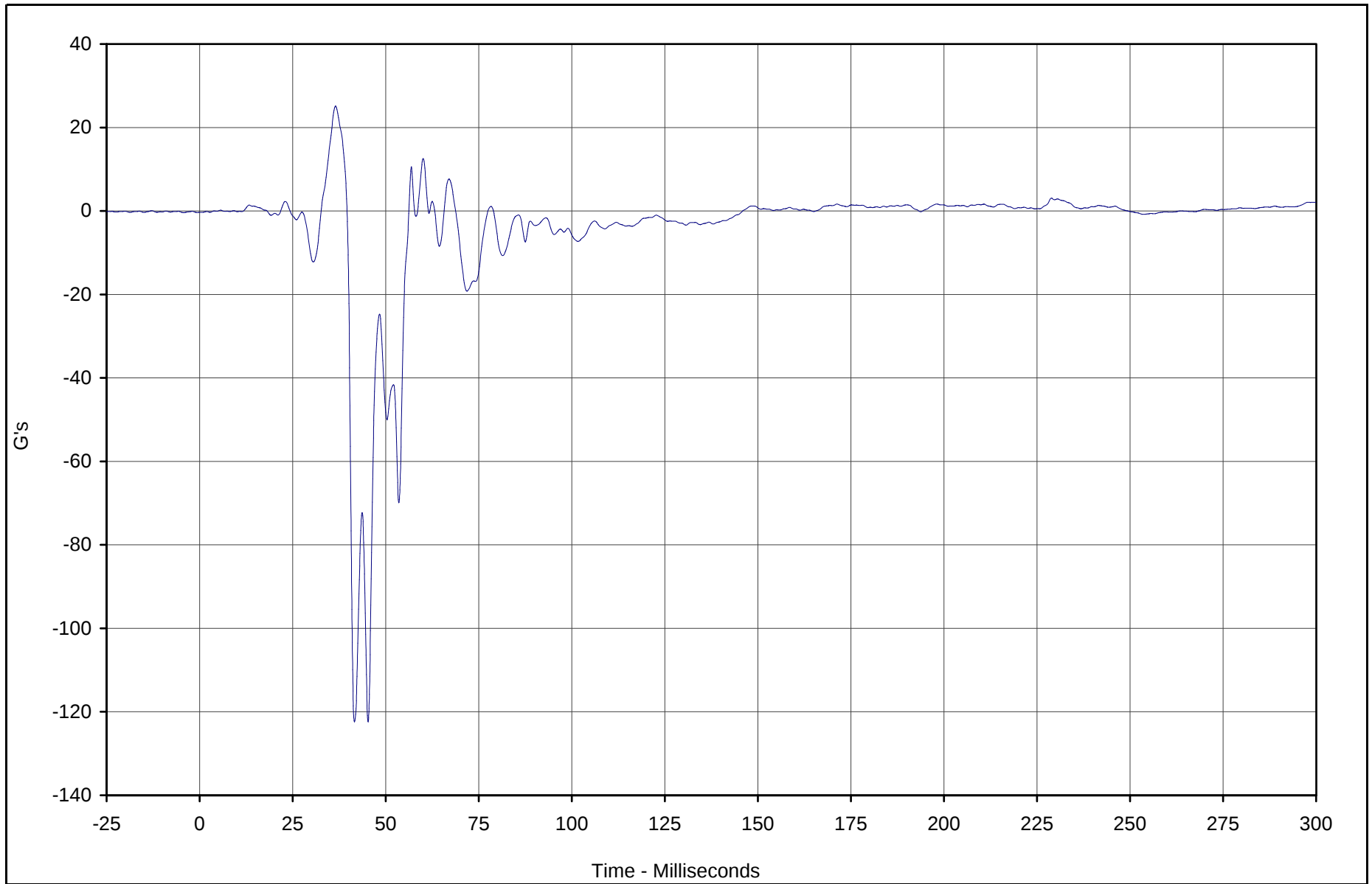
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

B-57



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Right Foot Fore Z	040	FIL	G's	25.1	36.5	-122.4	45.3	180



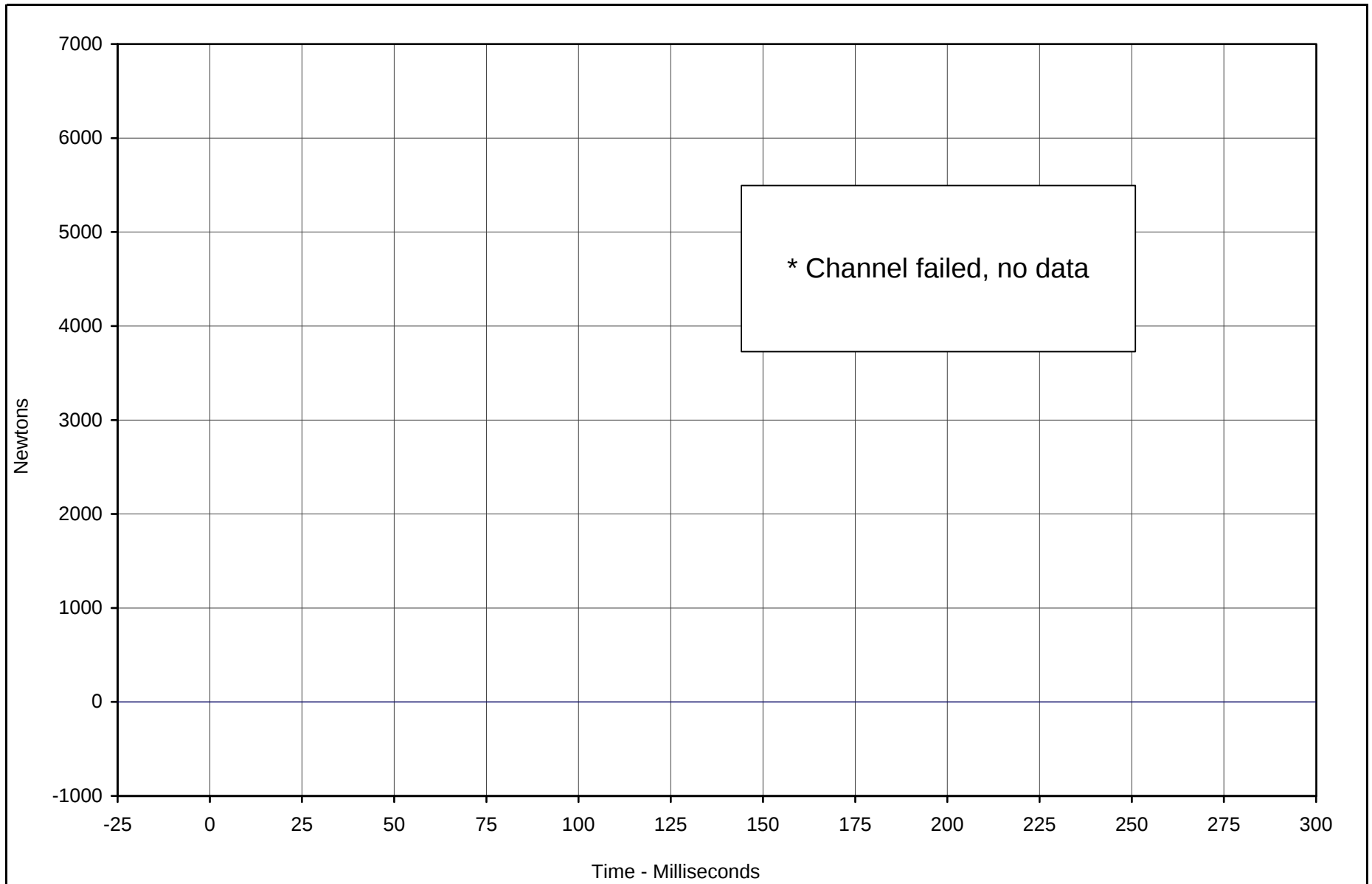
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01



* Channel failed, no data

Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Lap Belt Force	041	FIL	Newtons	0.0	0.0	0.0	0.0	60

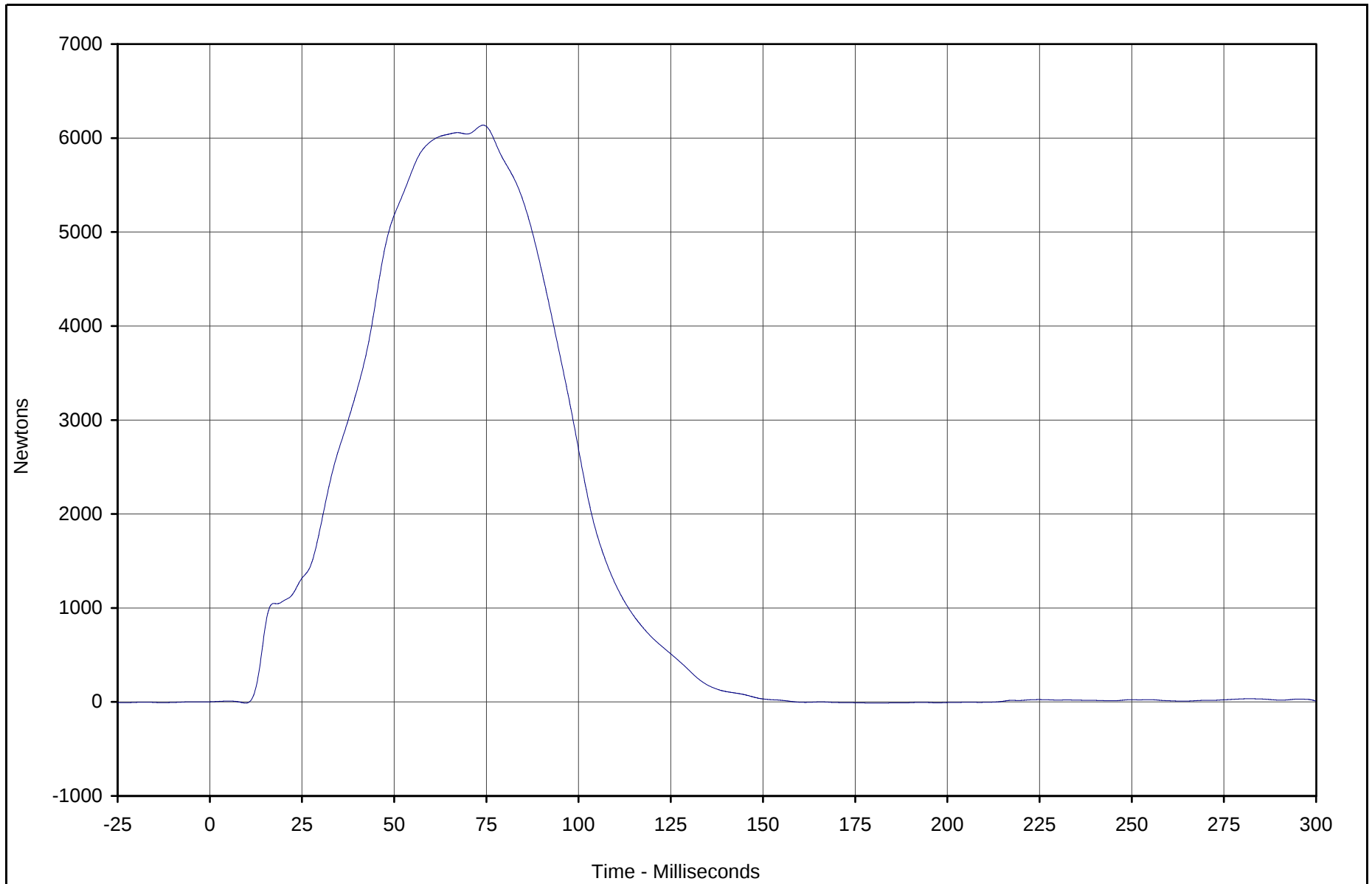


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Shoulder Belt Force	042	FIL	Newtons	6137.4	74.1	-12.7	180.2	60



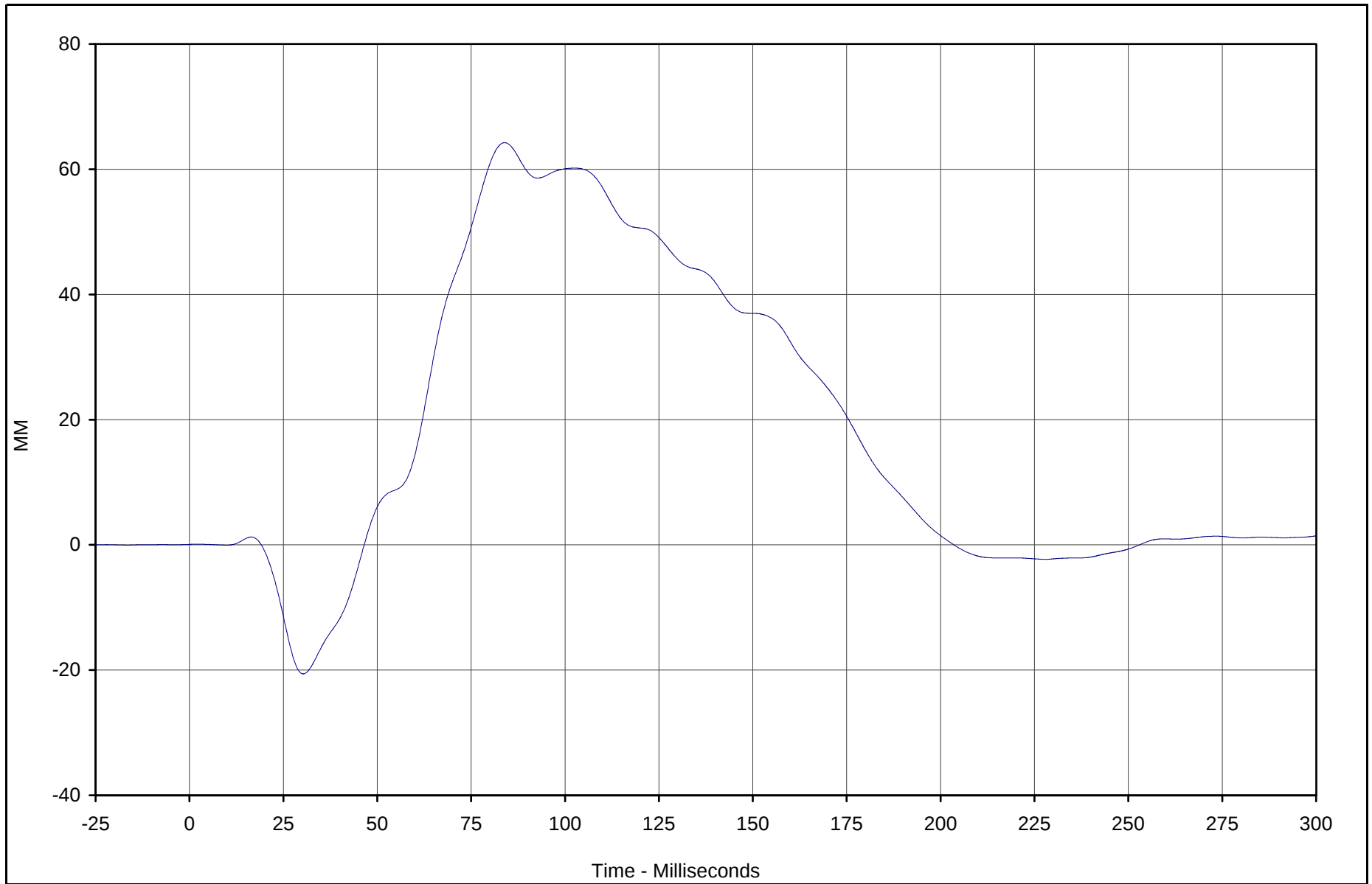
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

B-60



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Shoulder Belt Pullout	043	FIL	MM	64.2	83.9	-20.6	30.3	60



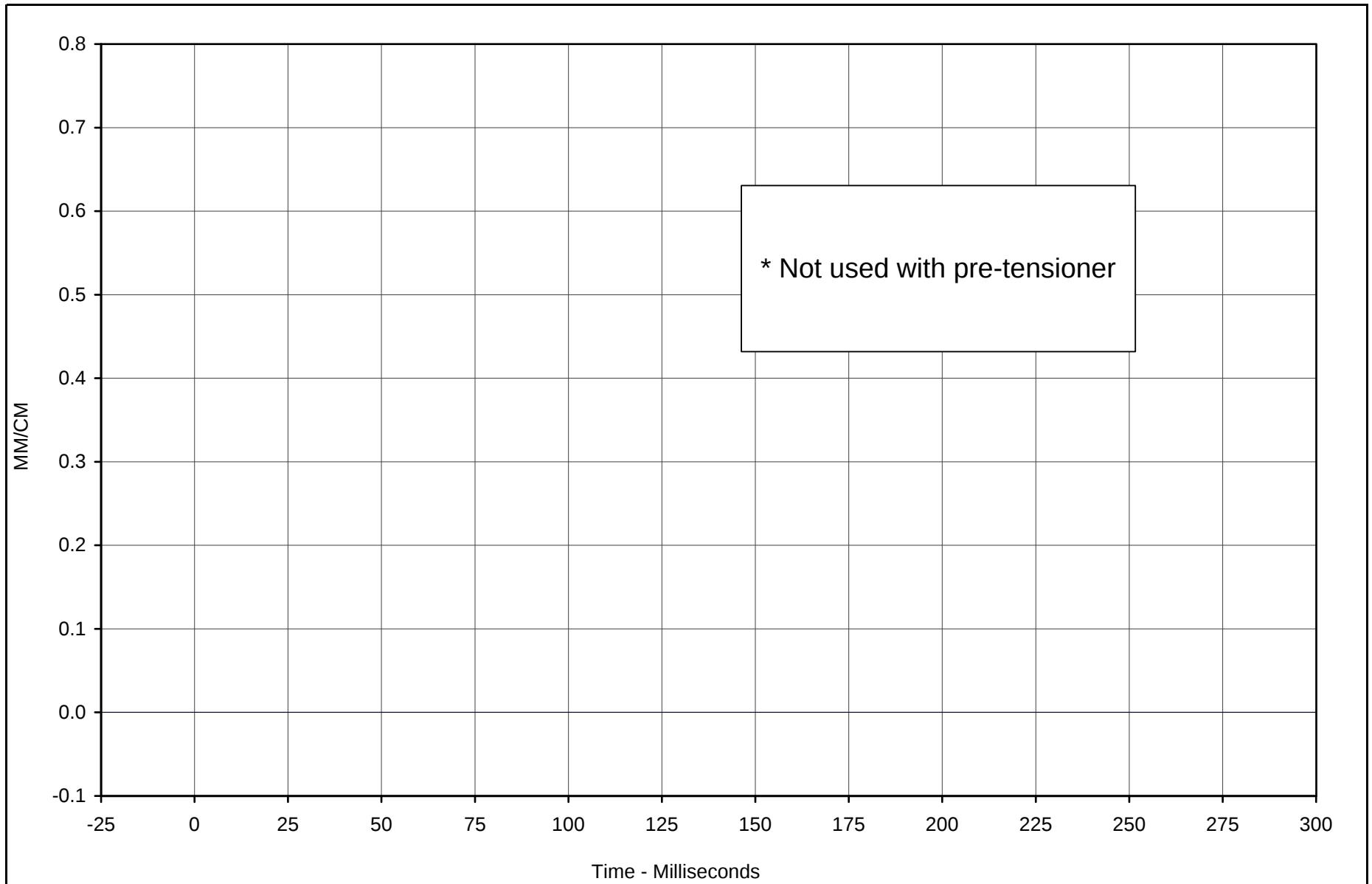
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01



* Not used with pre-tensioner

Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Shoulder Belt Elongation	044	FIL	MM/CM	0.00	0.0	0.00	0.0	60

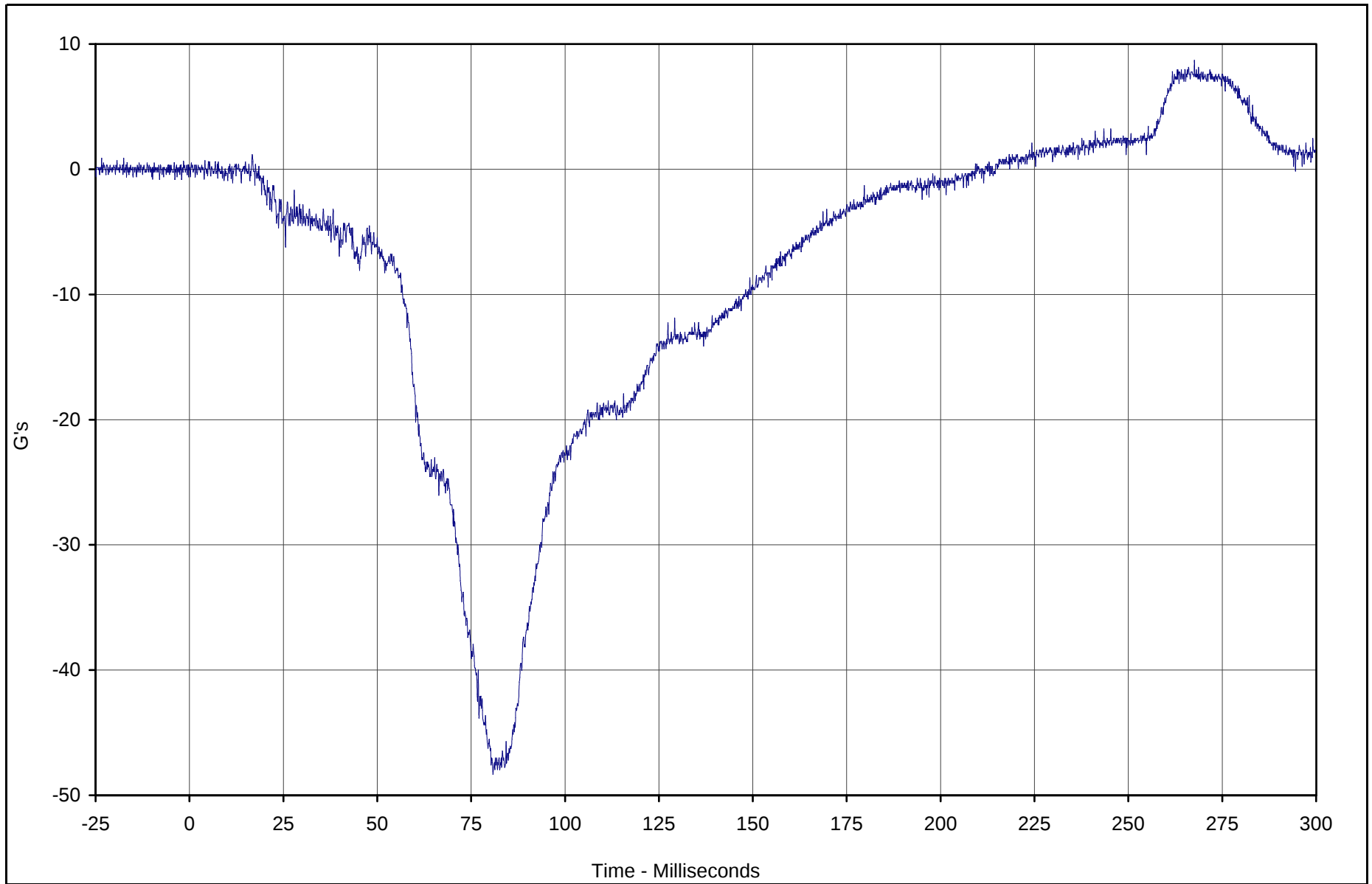


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Head Primary X	045	FIL	G's	8.7	267.6	-48.3	80.8	1000



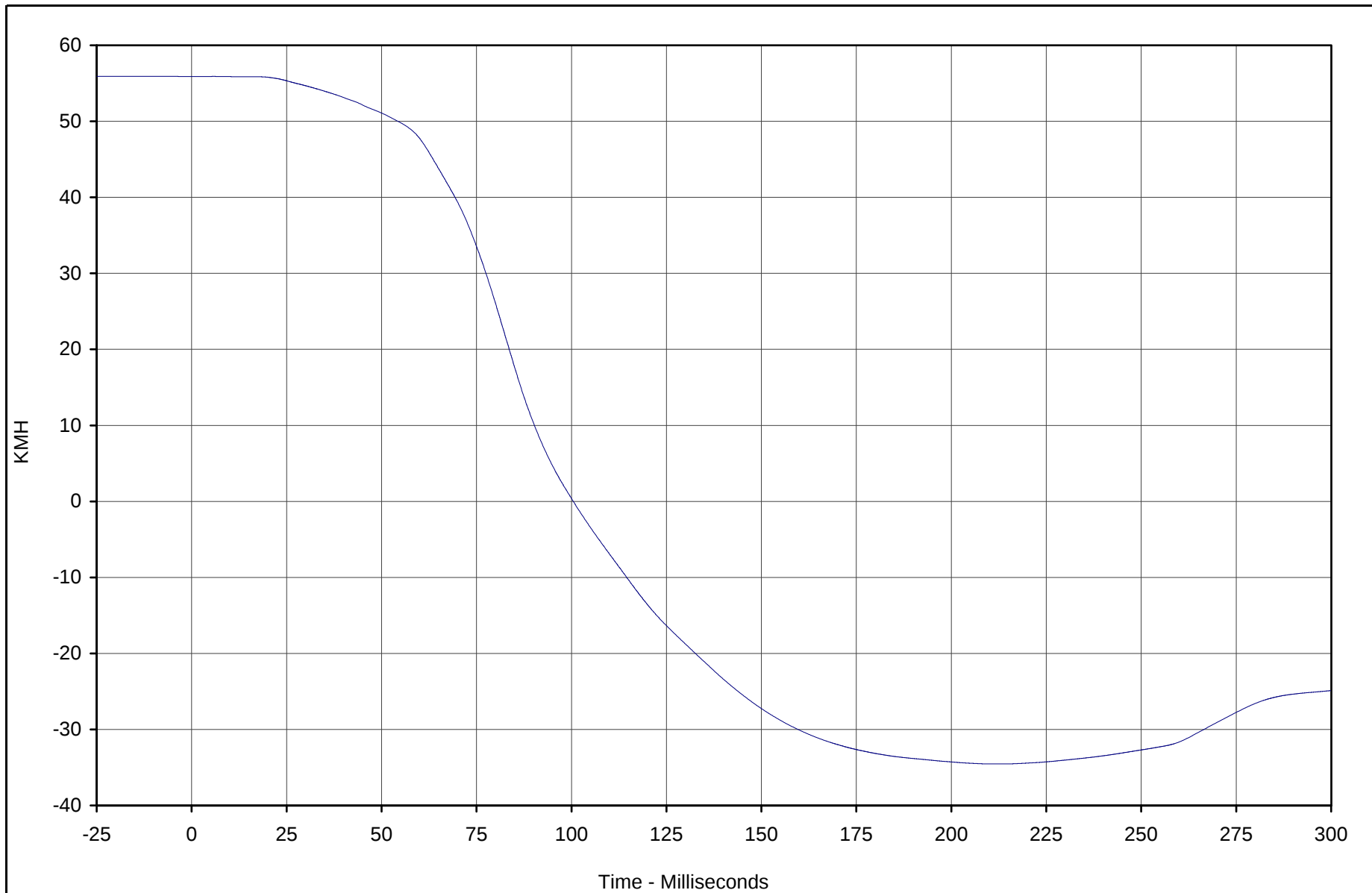
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

B-63



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Head Primary X Velocity	045	IN1	KMH	55.9	5.8	-34.5	214.5	180



Test Vehicle: 2003 Honda Pilot 4WD SUV

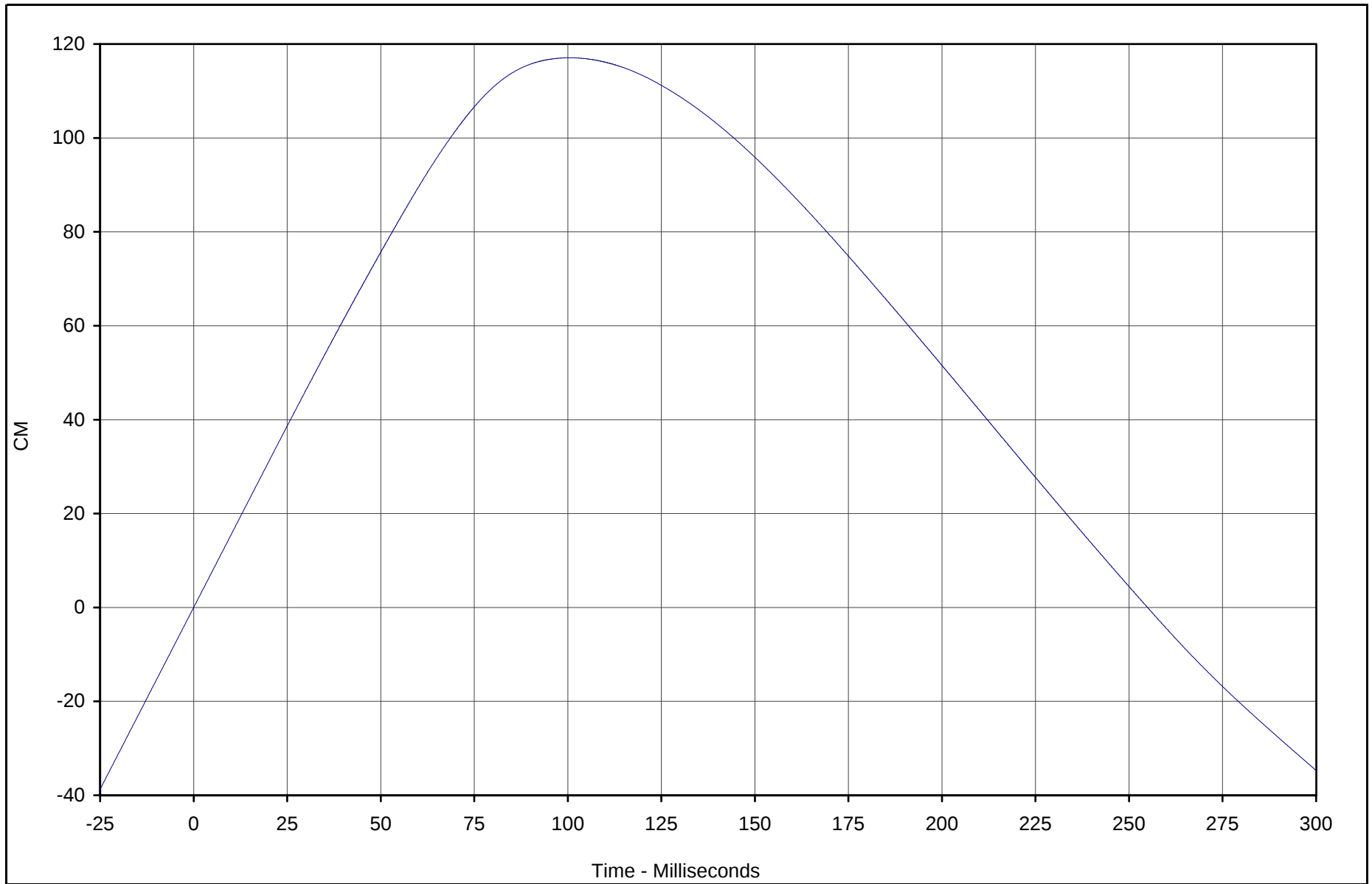
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

B-64



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Head Primary X Displ.	045	IN2	CM	117.1	100.5	-34.6	299.9	180



Test Vehicle: 2003 Honda Pilot 4WD SUV

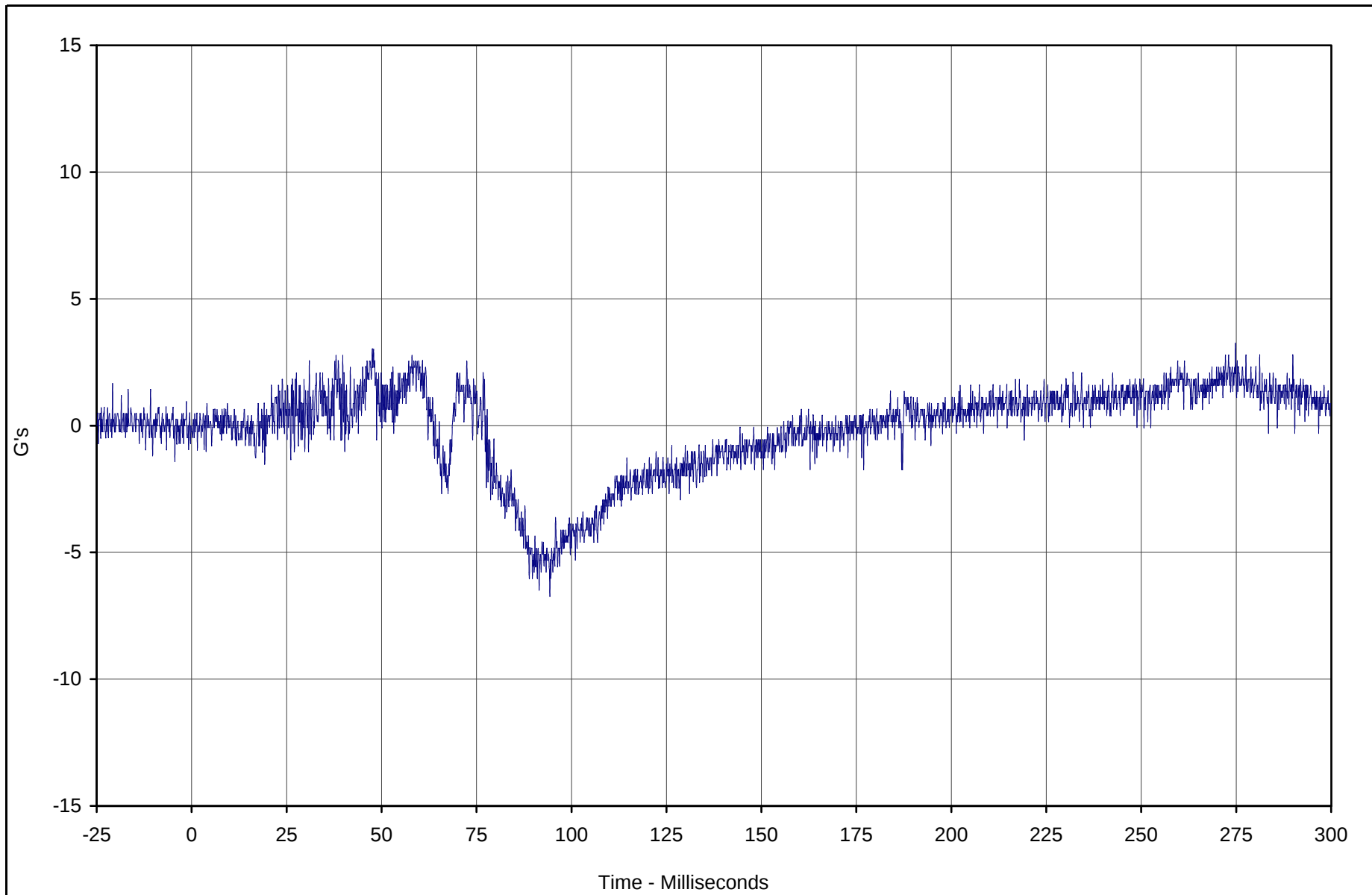
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

B-65



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Head Primary Y	046	FIL	G's	3.3	274.8	-6.7	94.3	1000



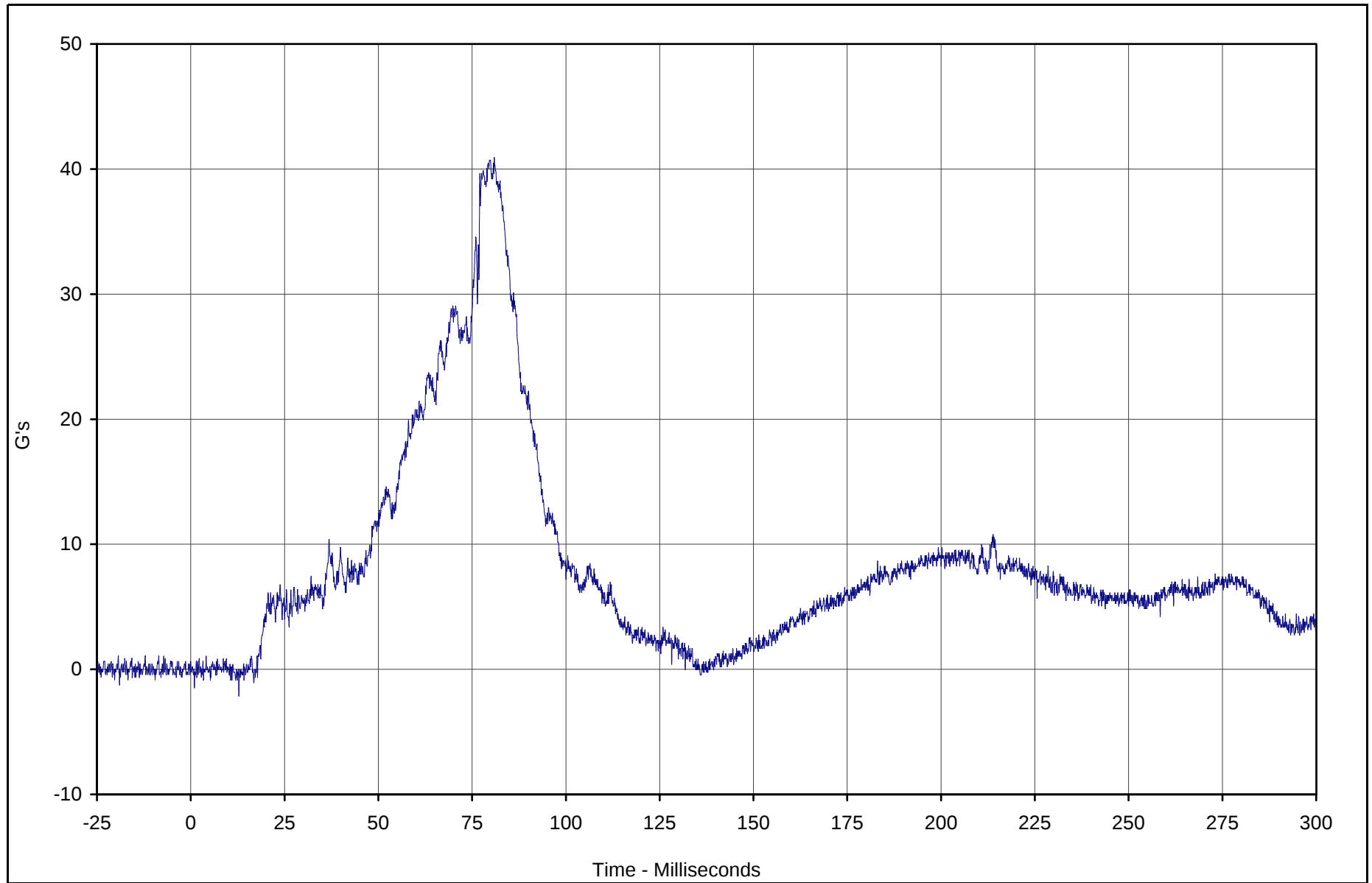
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Head Primary Z	047	FIL	G's	40.9	80.9	-2.1	12.8	1000

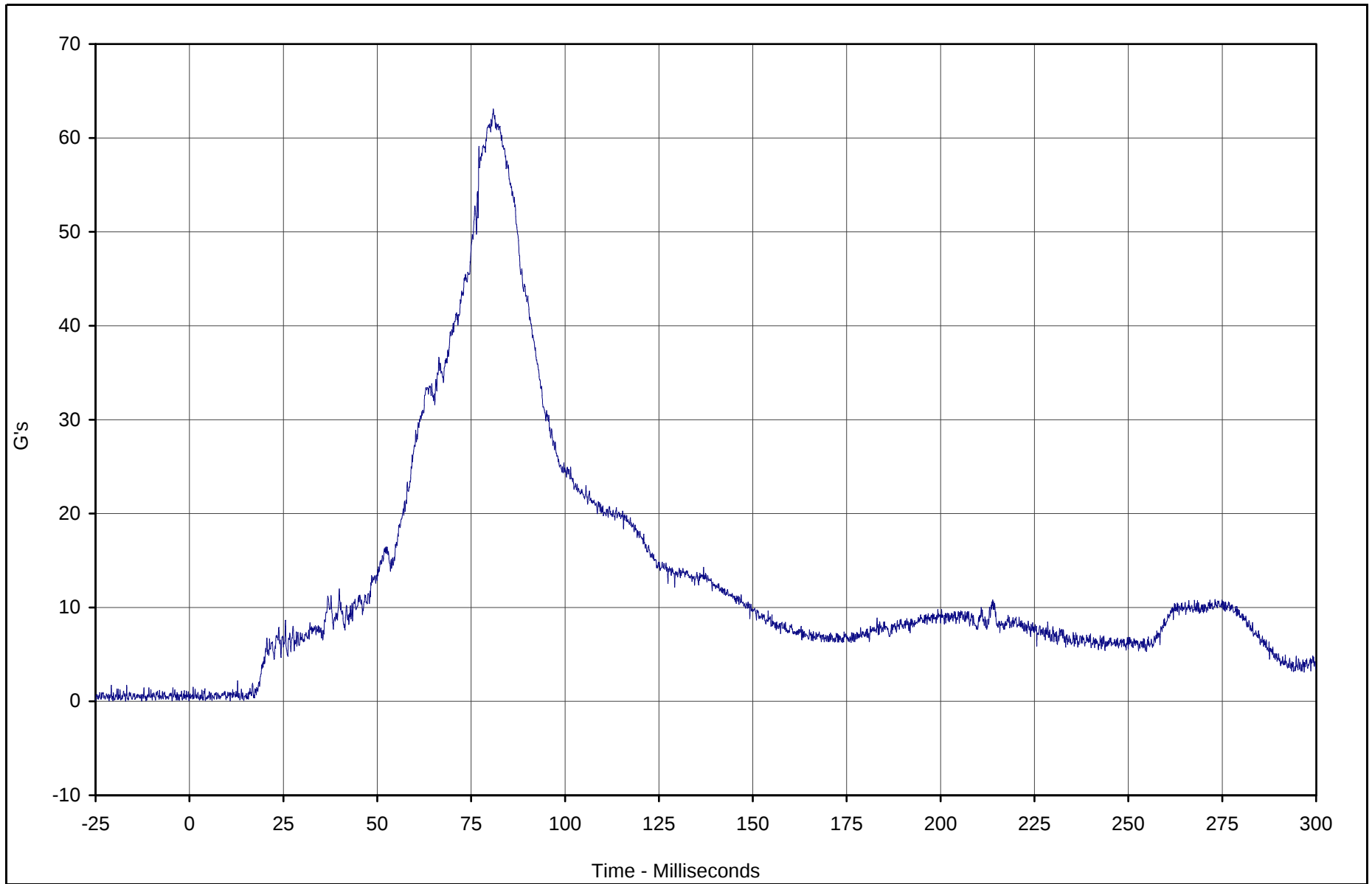


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Head Resultant Primary	045	RES	G's	63.1	80.9	0.1	4.3	1000

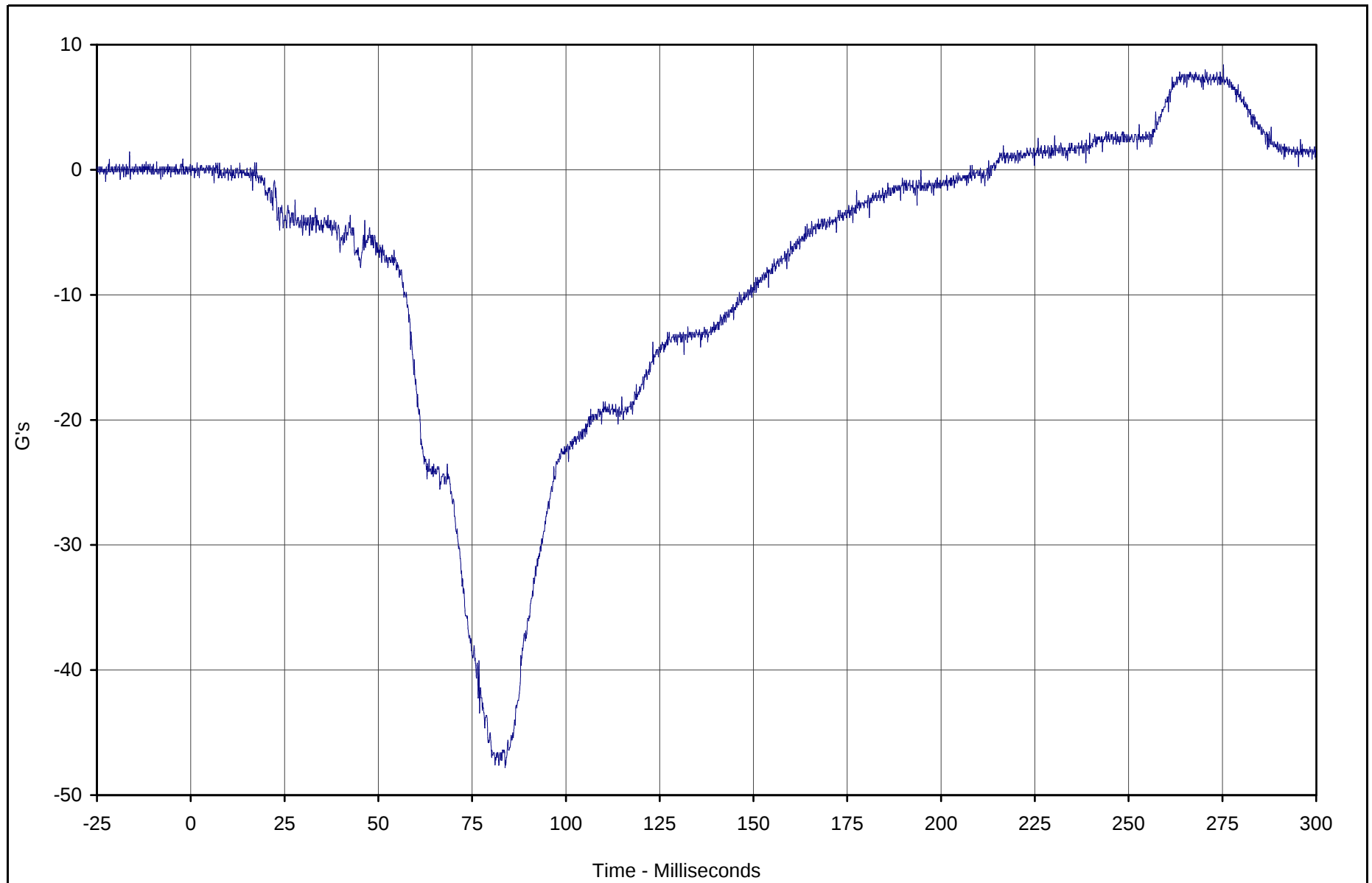


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Head Redundant X	048	FIL	G's	8.4	275.3	-47.8	83.8	1000

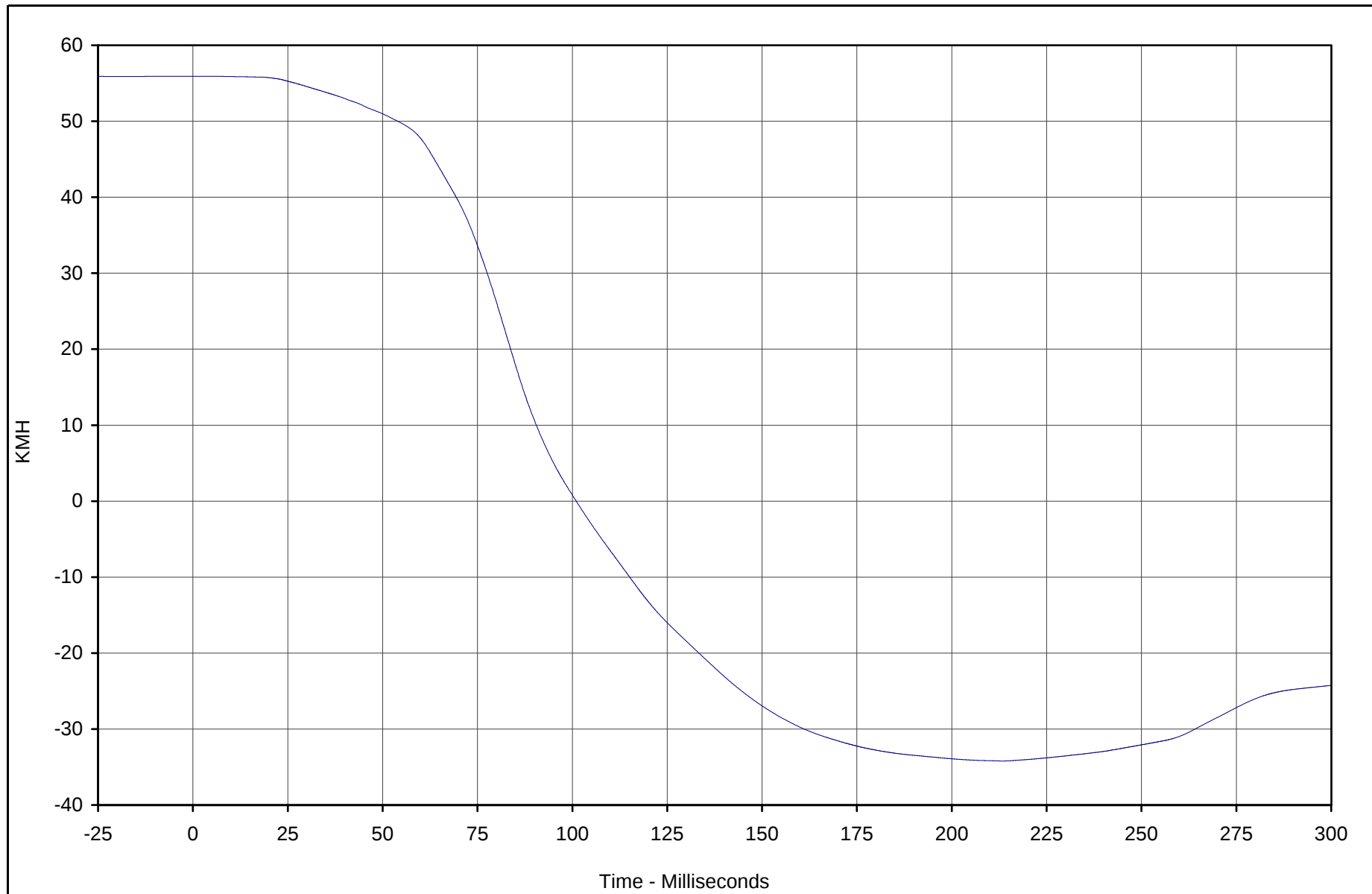


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Head Redundant X Velocity	048	IN1	KMH	55.9	5.6	-34.2	213.4	180



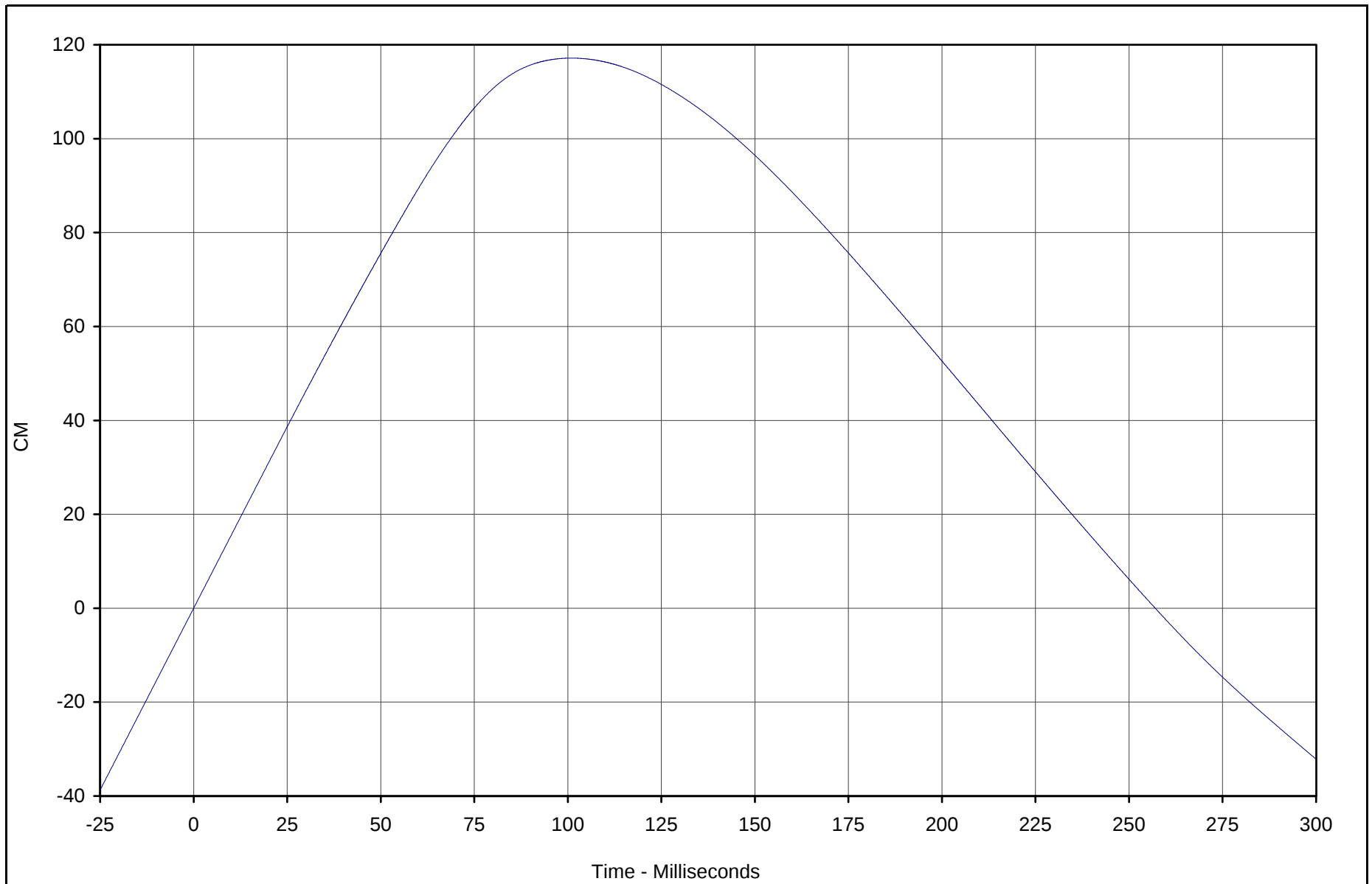
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

B-70



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Head Redundant X Displ.	048	IN2	CM	117.2	101.0	-32.1	299.9	180



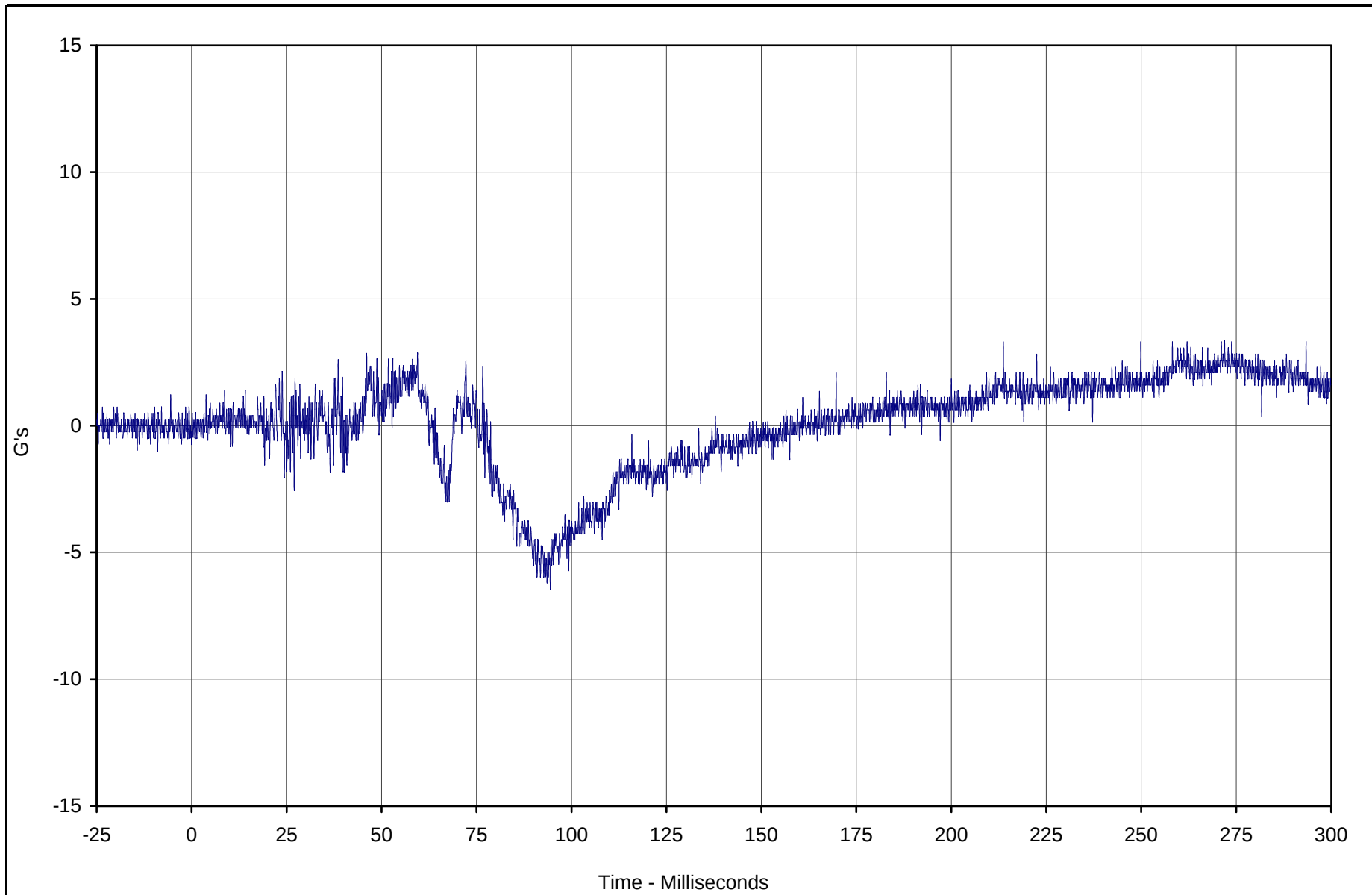
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Head Redundant Y	049	FIL	G's	3.3	213.7	-6.5	94.4	1000

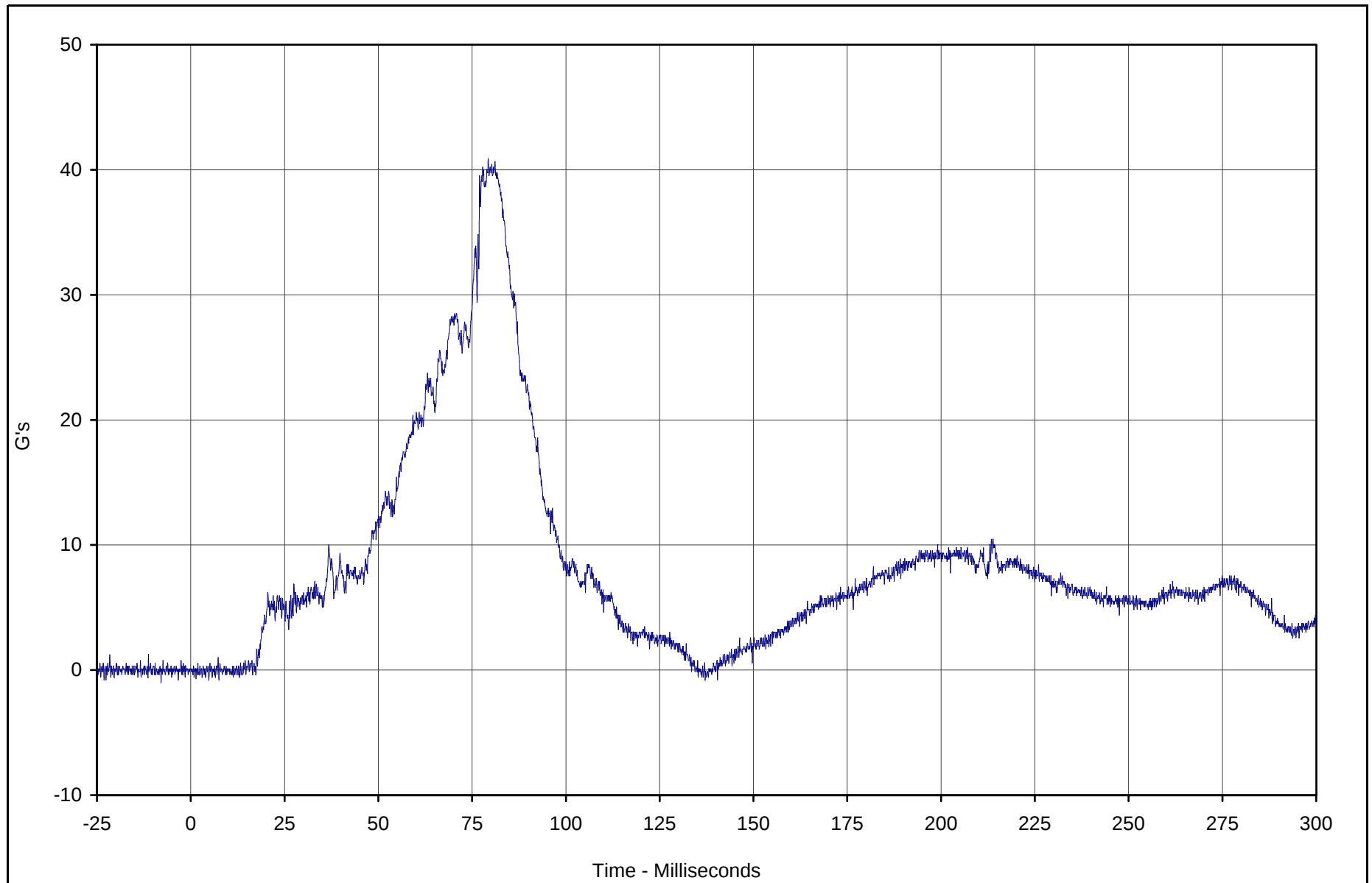


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Head Redundant Z	050	FIL	G's	40.9	79.3	-0.8	4.8	1000

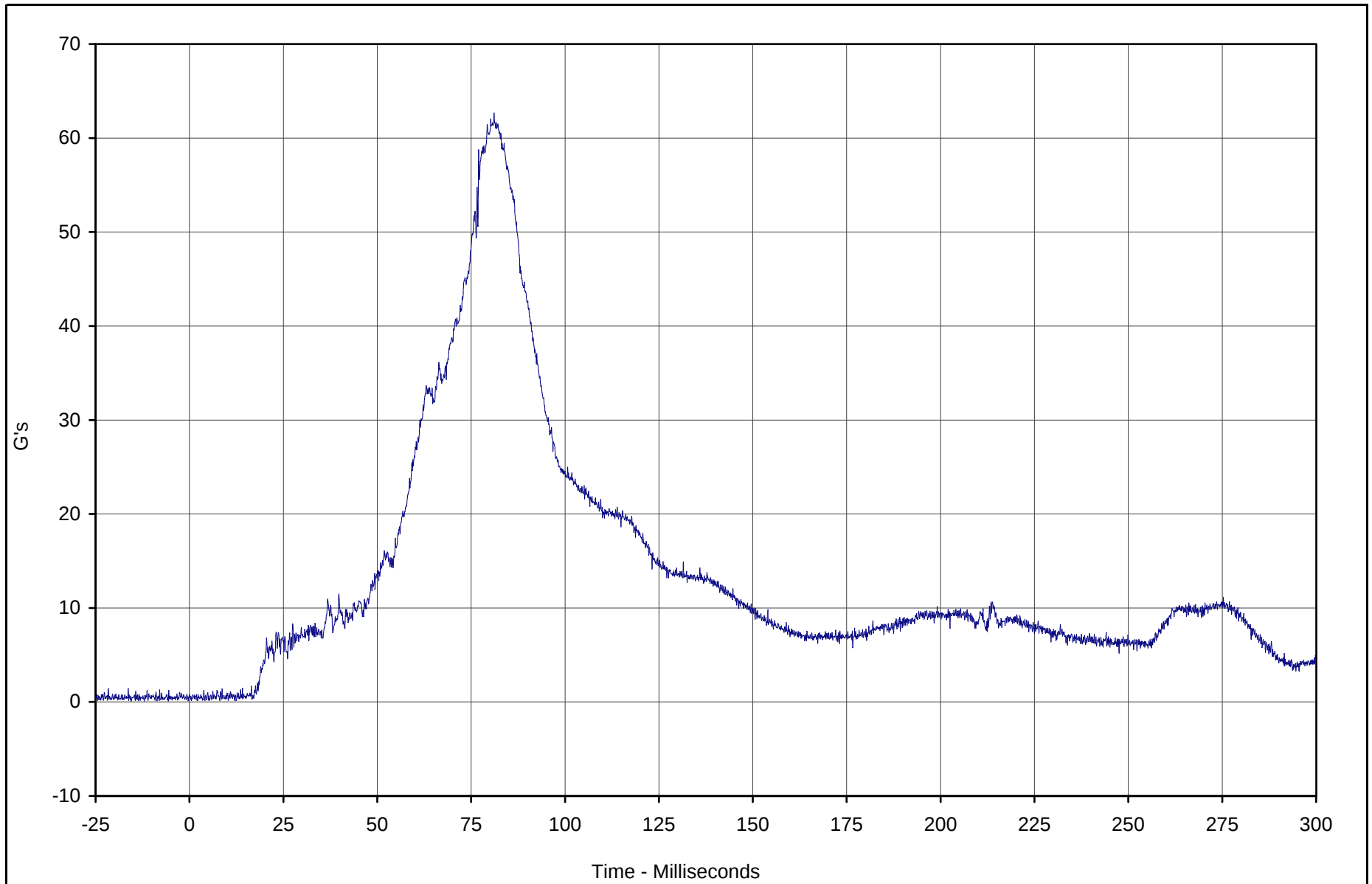


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Head Resultant Redundant	048	RES	G's	62.7	81.1	0.1	0.5	1000

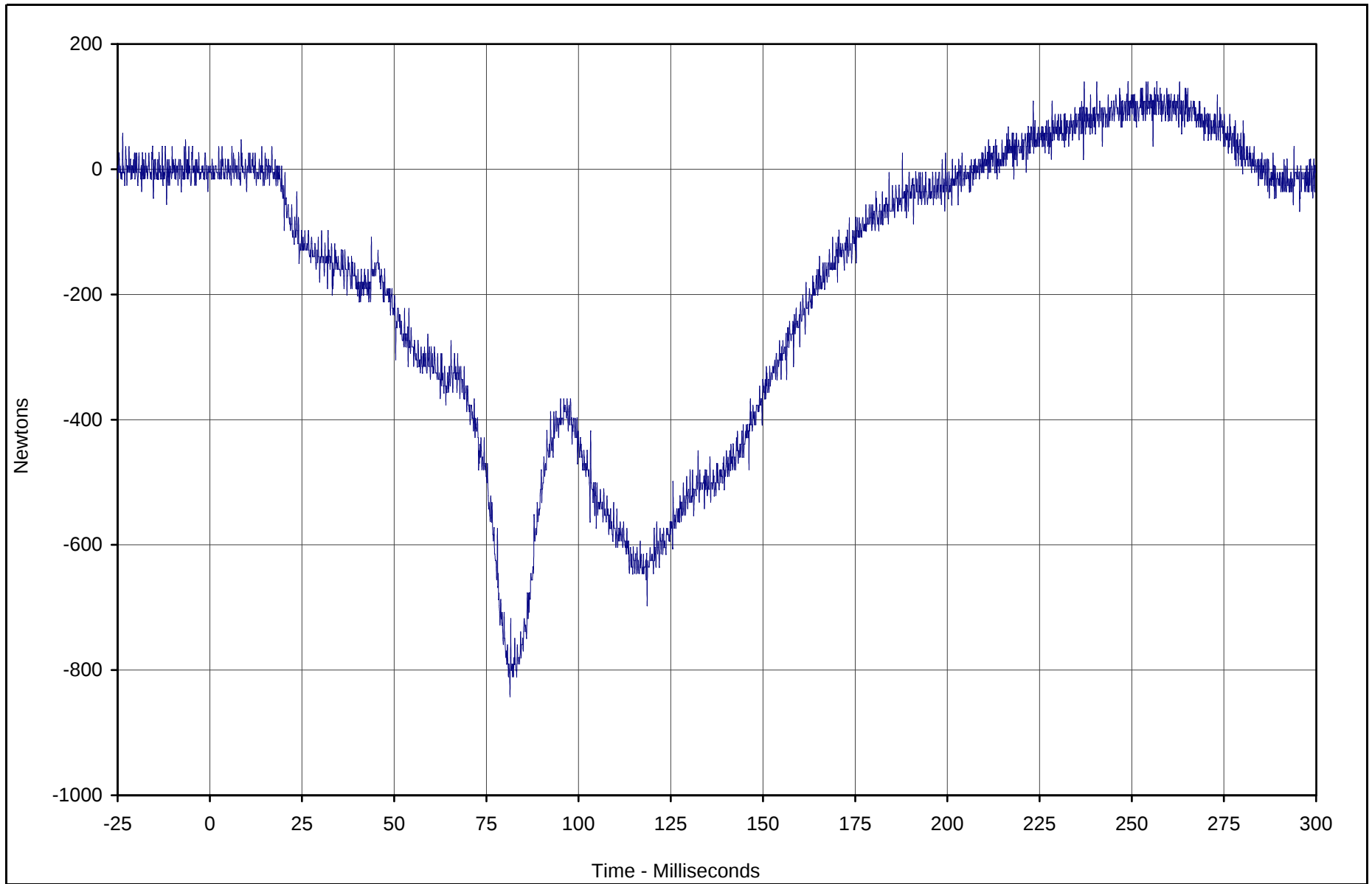


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Neck Force X	051	FIL	Newtons	139.7	237.1	-842.0	81.4	1000

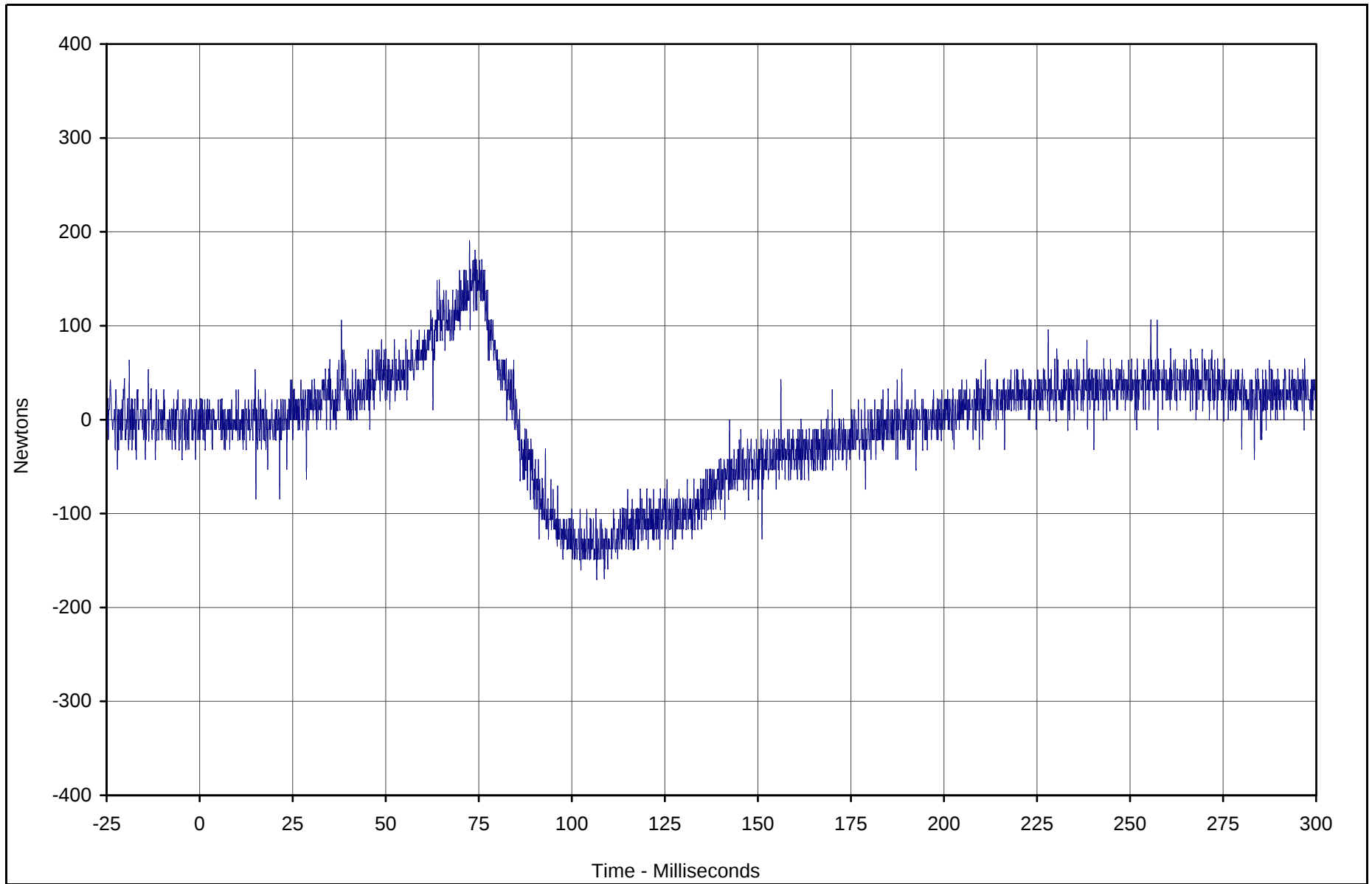


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Neck Force Y	052	FIL	Newtons	190.7	72.5	-169.5	106.7	1000

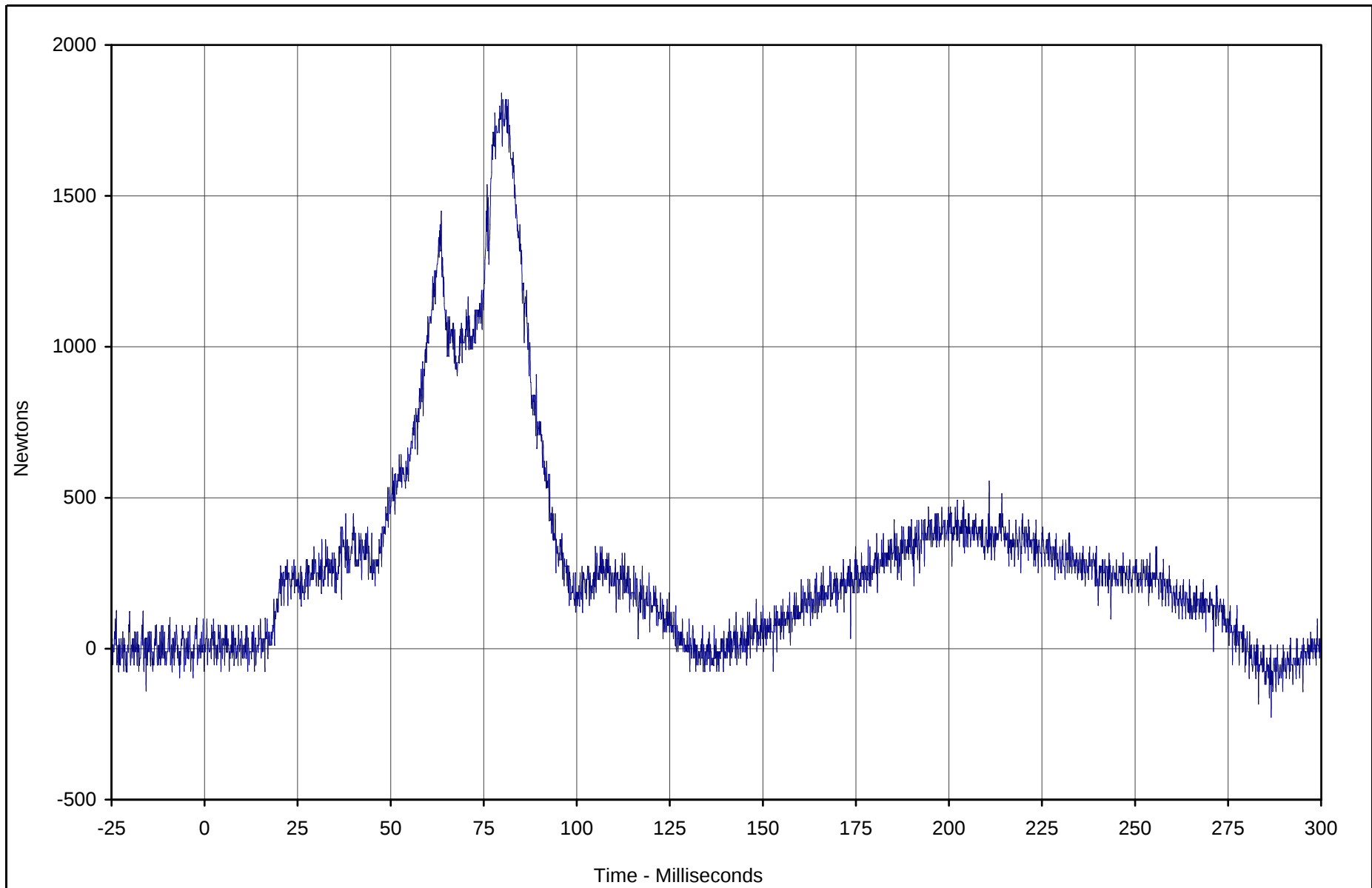


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Neck Force Z	053	FIL	Newtons	1840.8	79.8	-227.7	286.6	1000

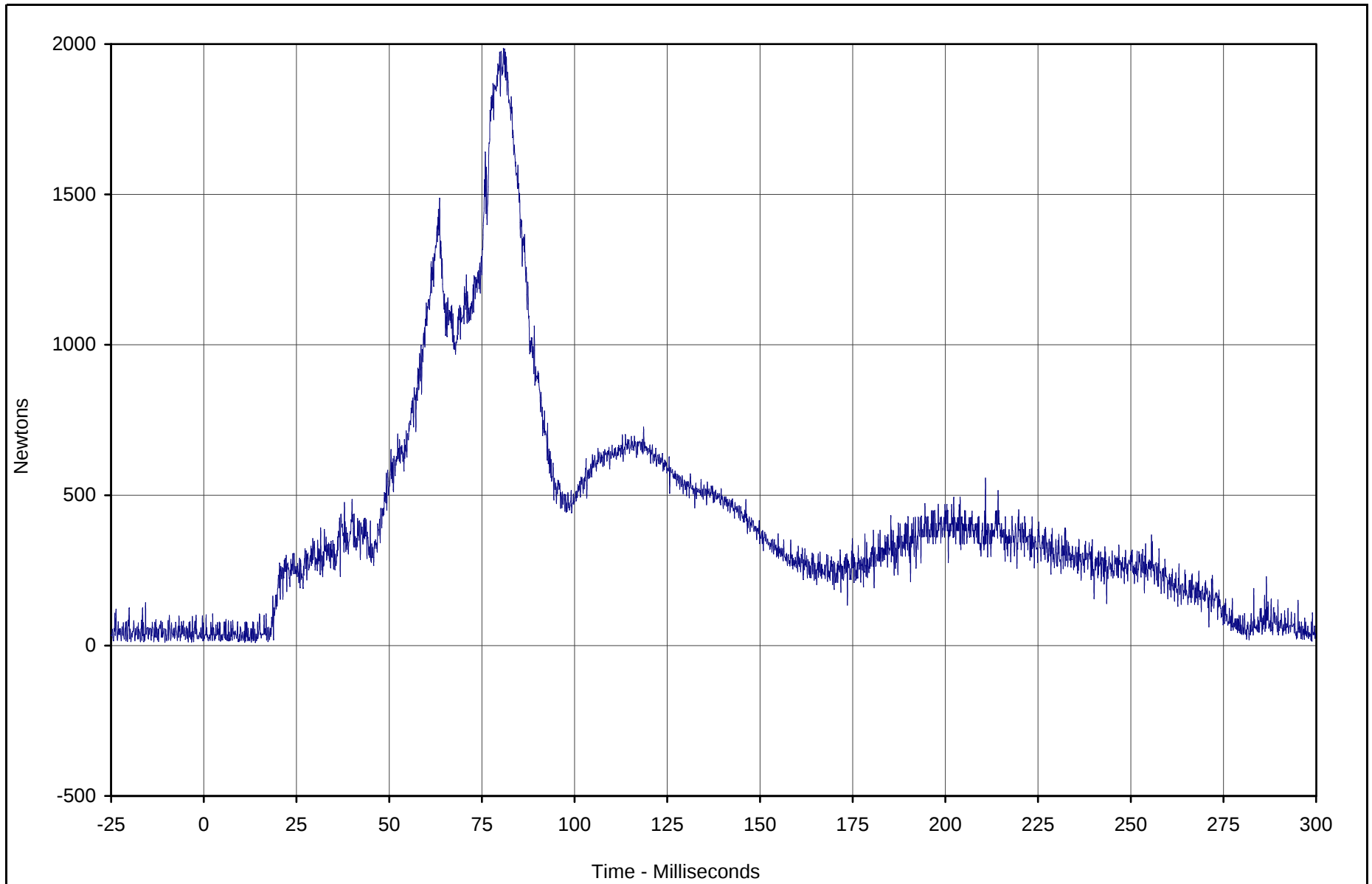


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Neck Force Resultant	051	RES	Newtons	1984.0	80.8	11.2	11.0	1000

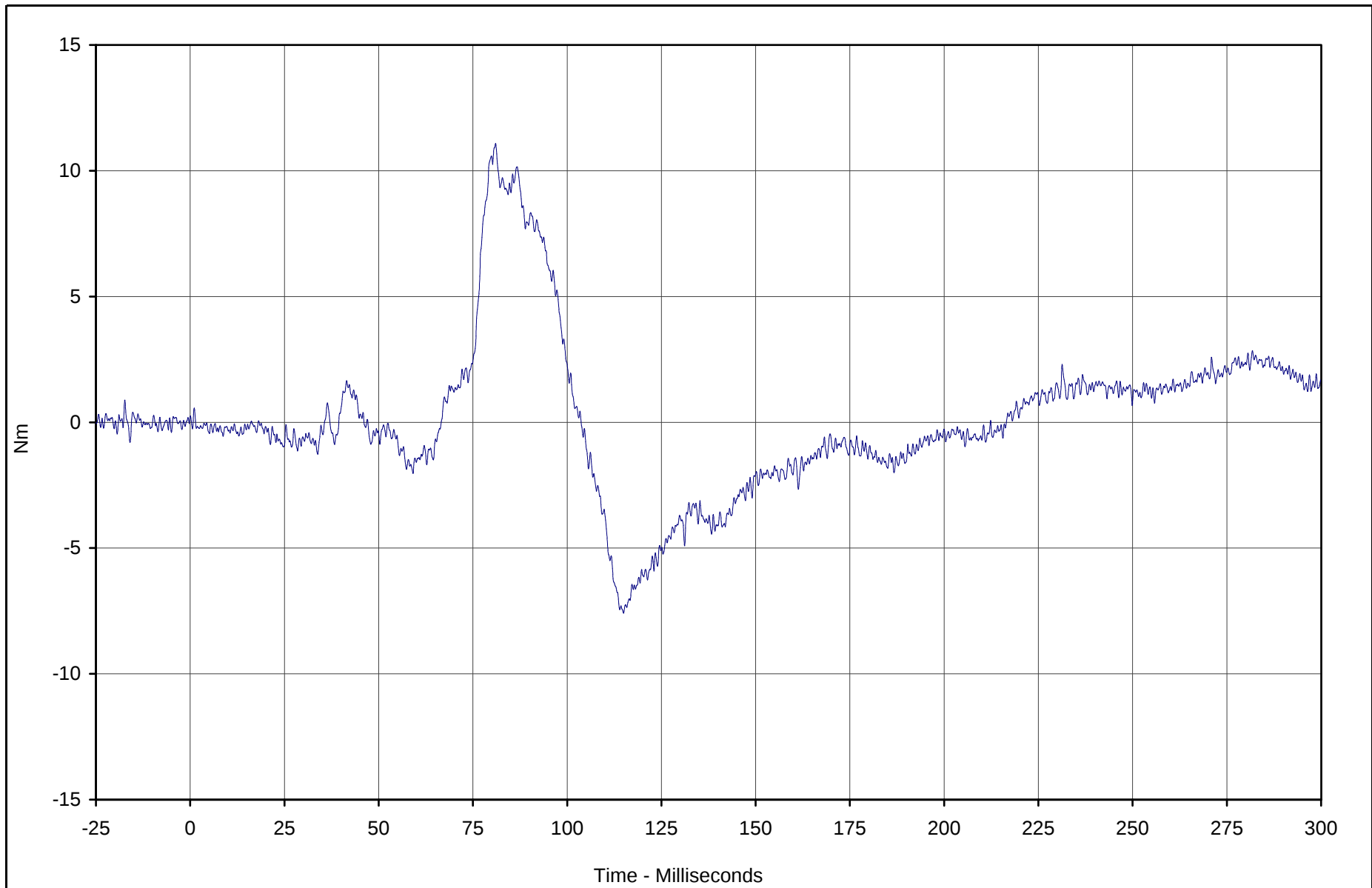


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Neck Moment X	054	FIL	Nm	11.1	81.0	-7.6	115.0	600

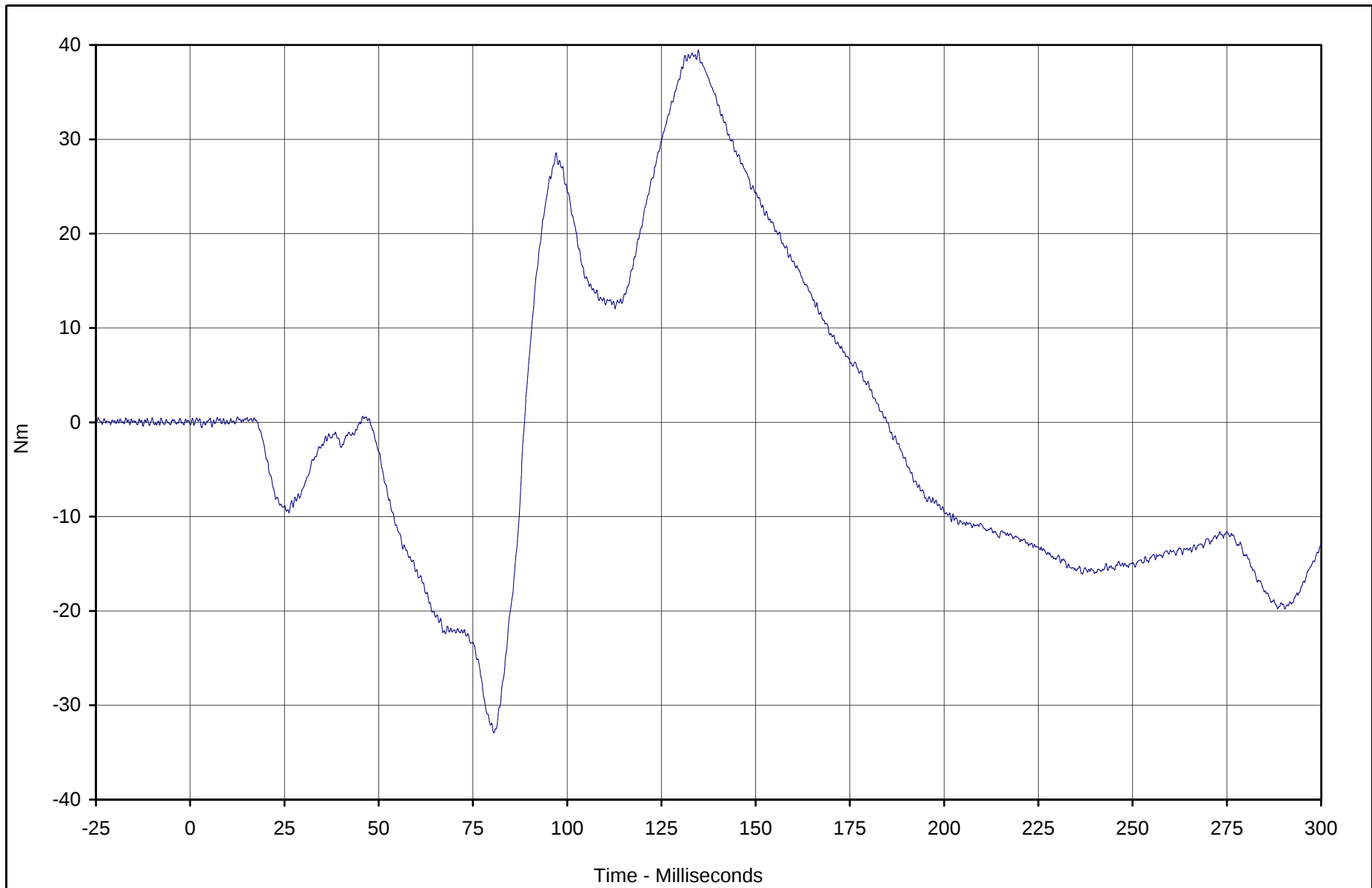


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Neck Moment Y	055	FIL	Nm	39.5	134.8	-32.9	80.6	600

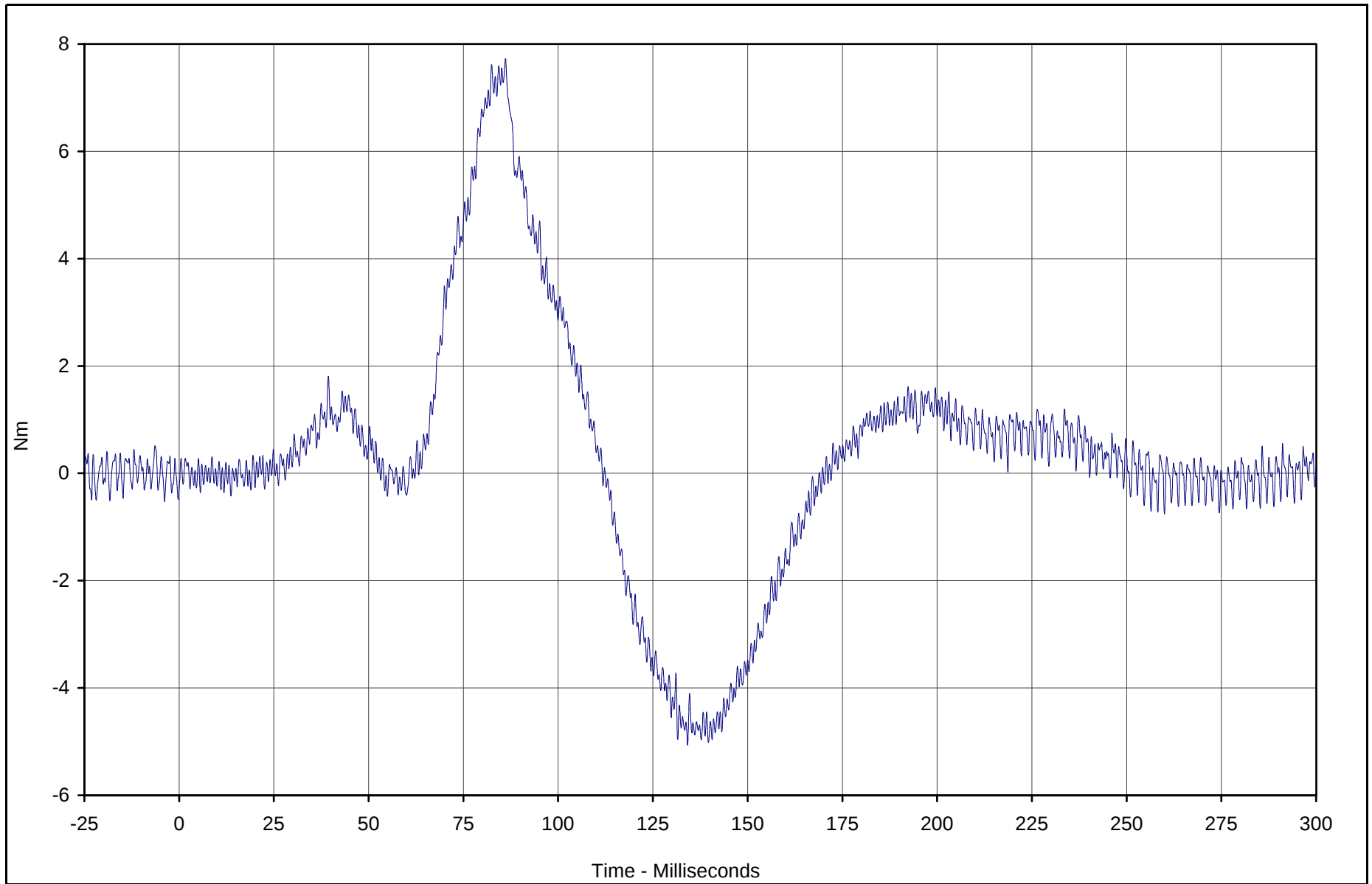


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Neck Moment Z	056	FIL	Nm	7.7	86.1	-5.1	134.2	600

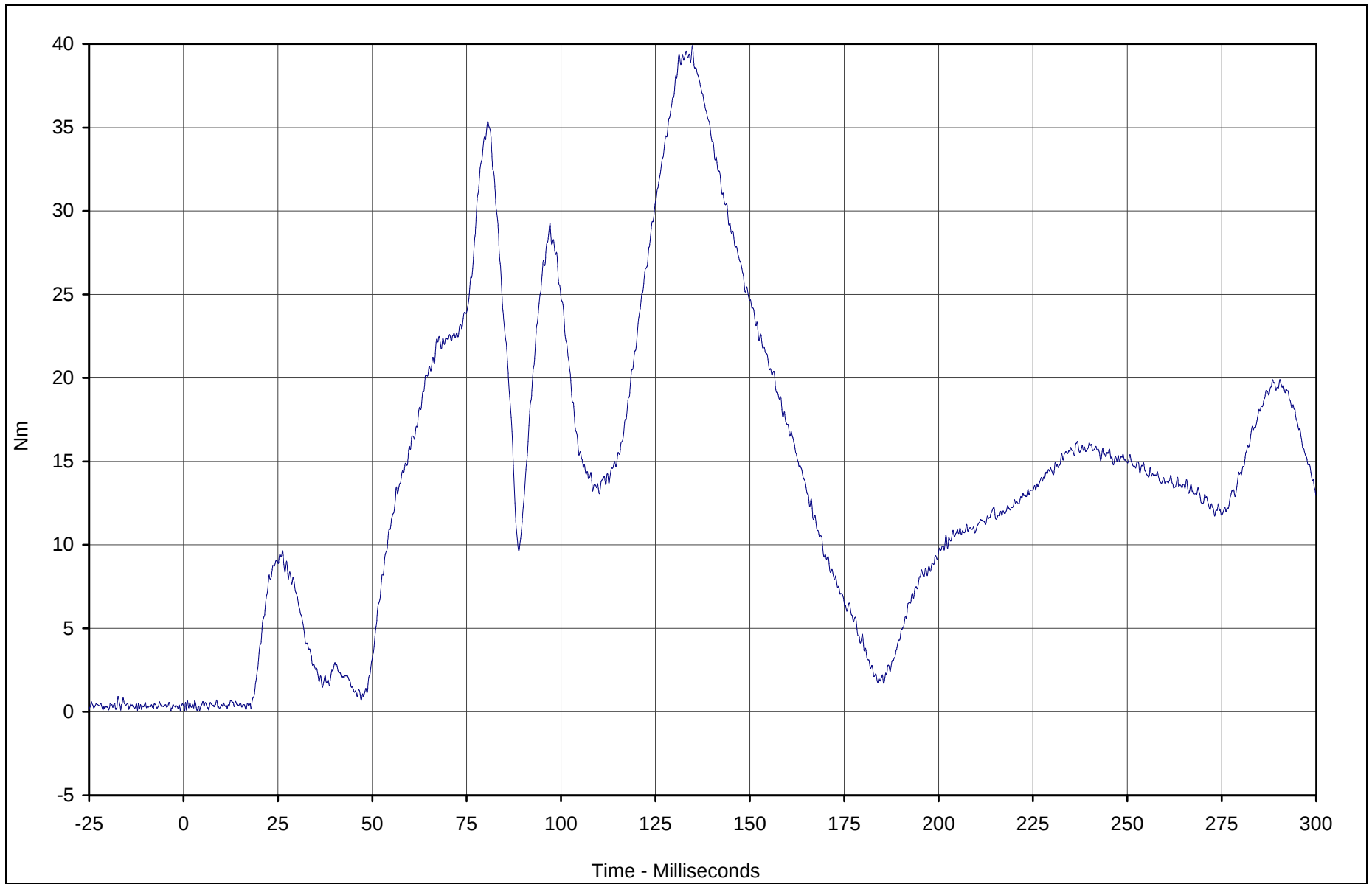


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Neck Moment Resultant	054	RES	Nm	39.9	134.8	0.0	4.3	600



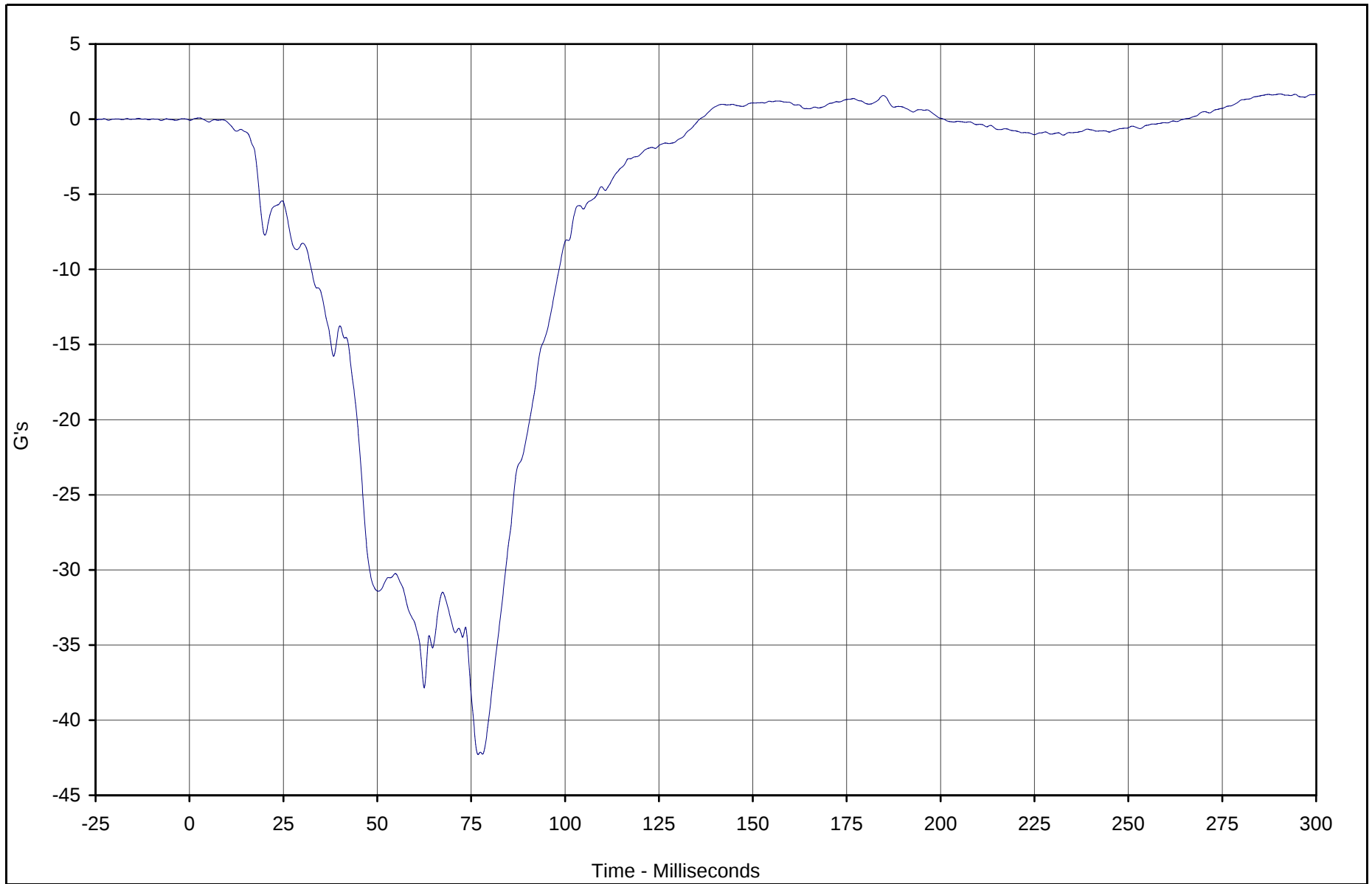
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

B-82



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Chest Primary X	057	FIL	G's	1.7	290.4	-42.3	76.8	180



Test Vehicle: 2003 Honda Pilot 4WD SUV

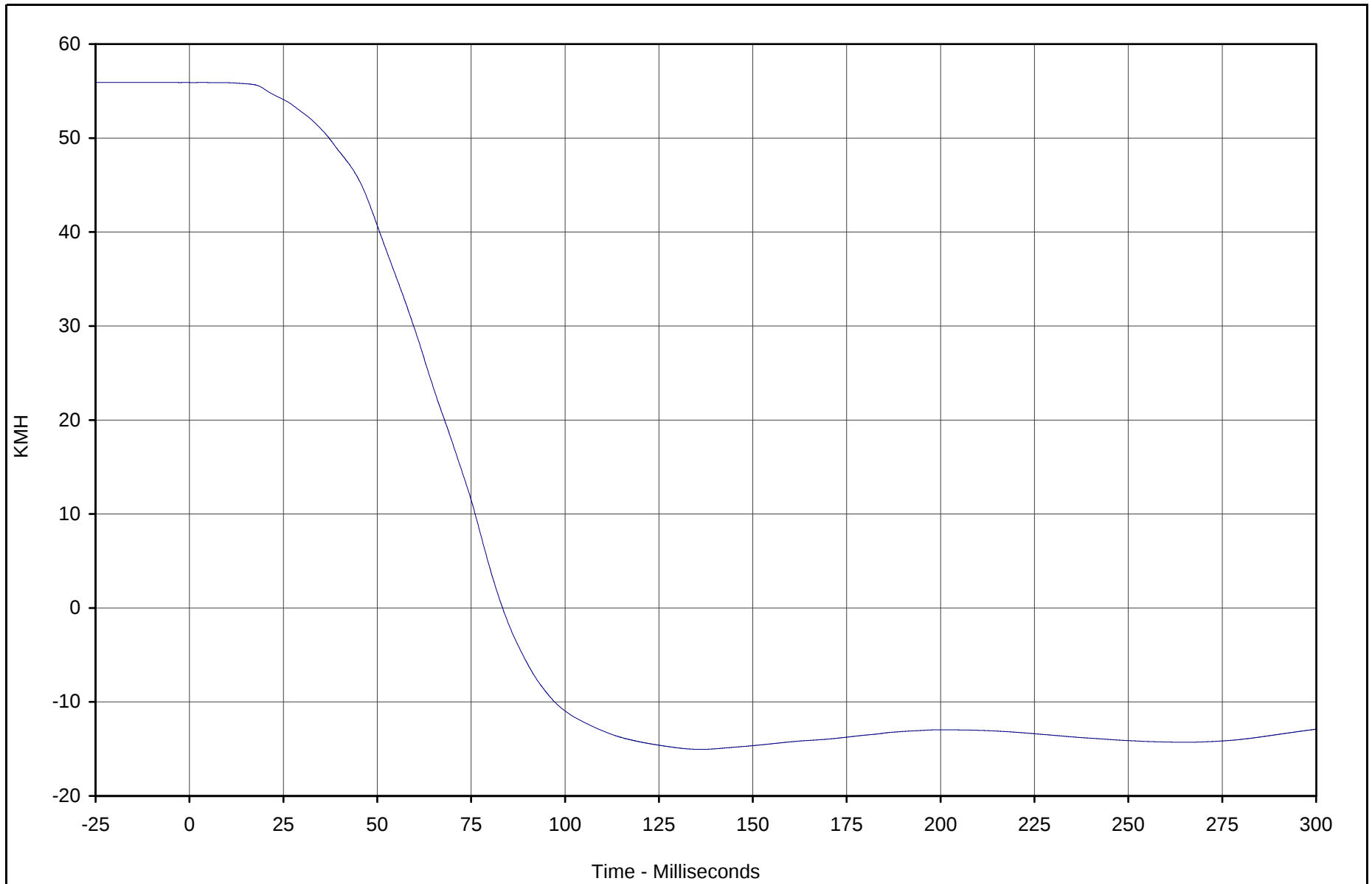
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

B-83



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Chest Primary X Velocity	057	IN1	KMH	55.9	3.6	-15.0	135.9	180



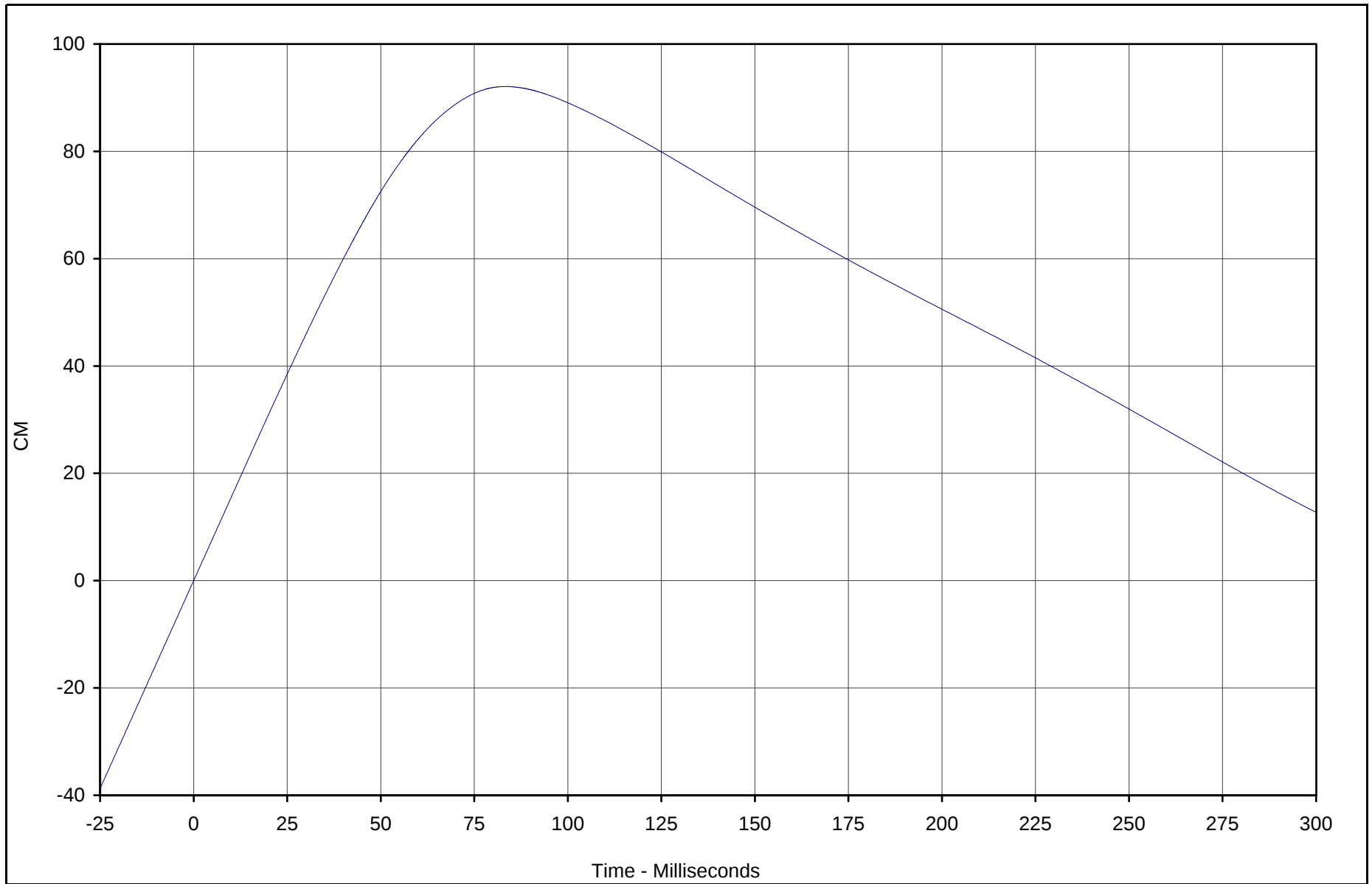
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Chest Primary X Displ.	057	IN2	CM	92.1	83.4	0.0	0.0	180



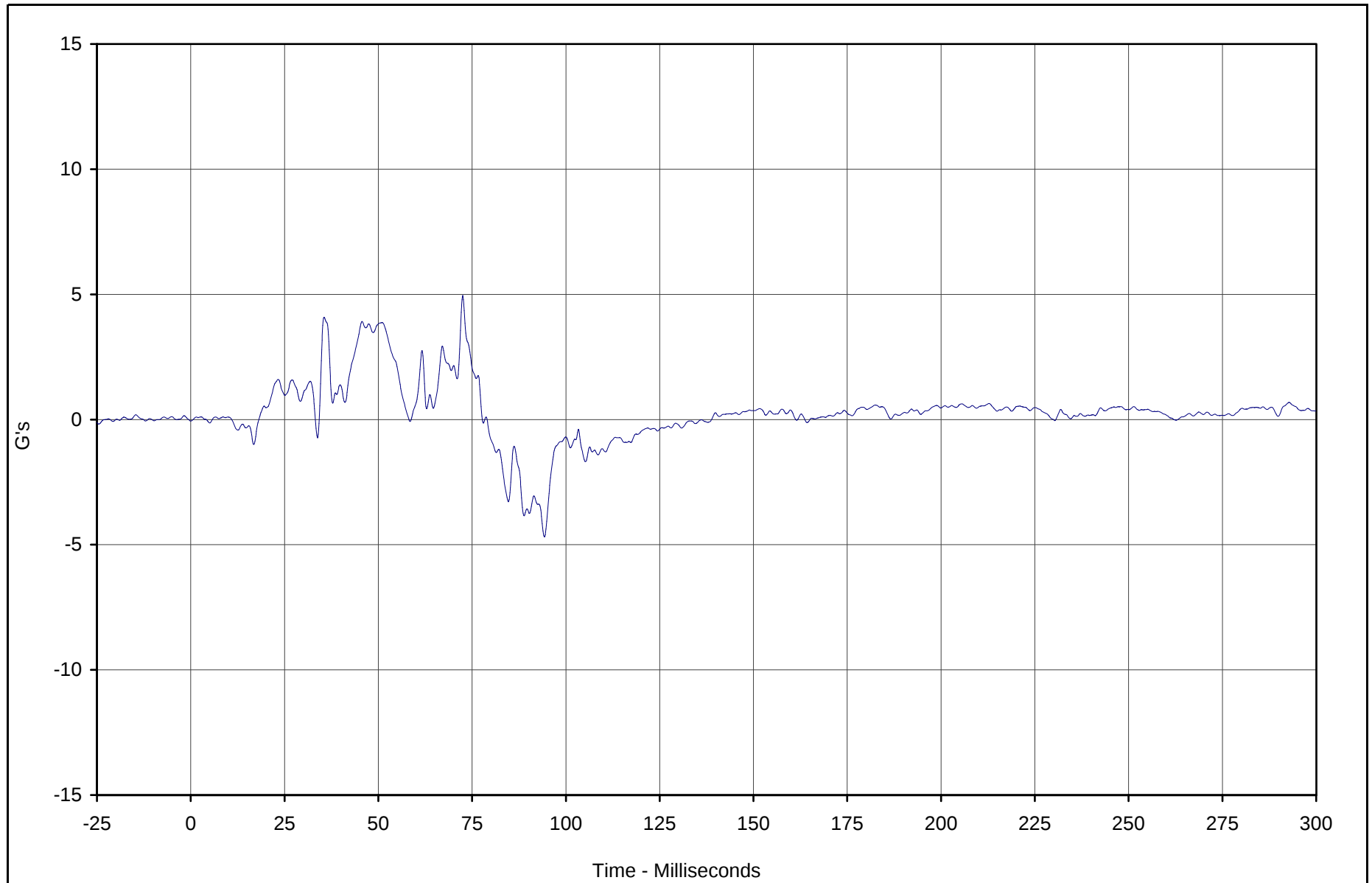
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

B-85



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Chest Primary Y	058	FIL	G's	5.0	72.5	-4.7	94.3	180



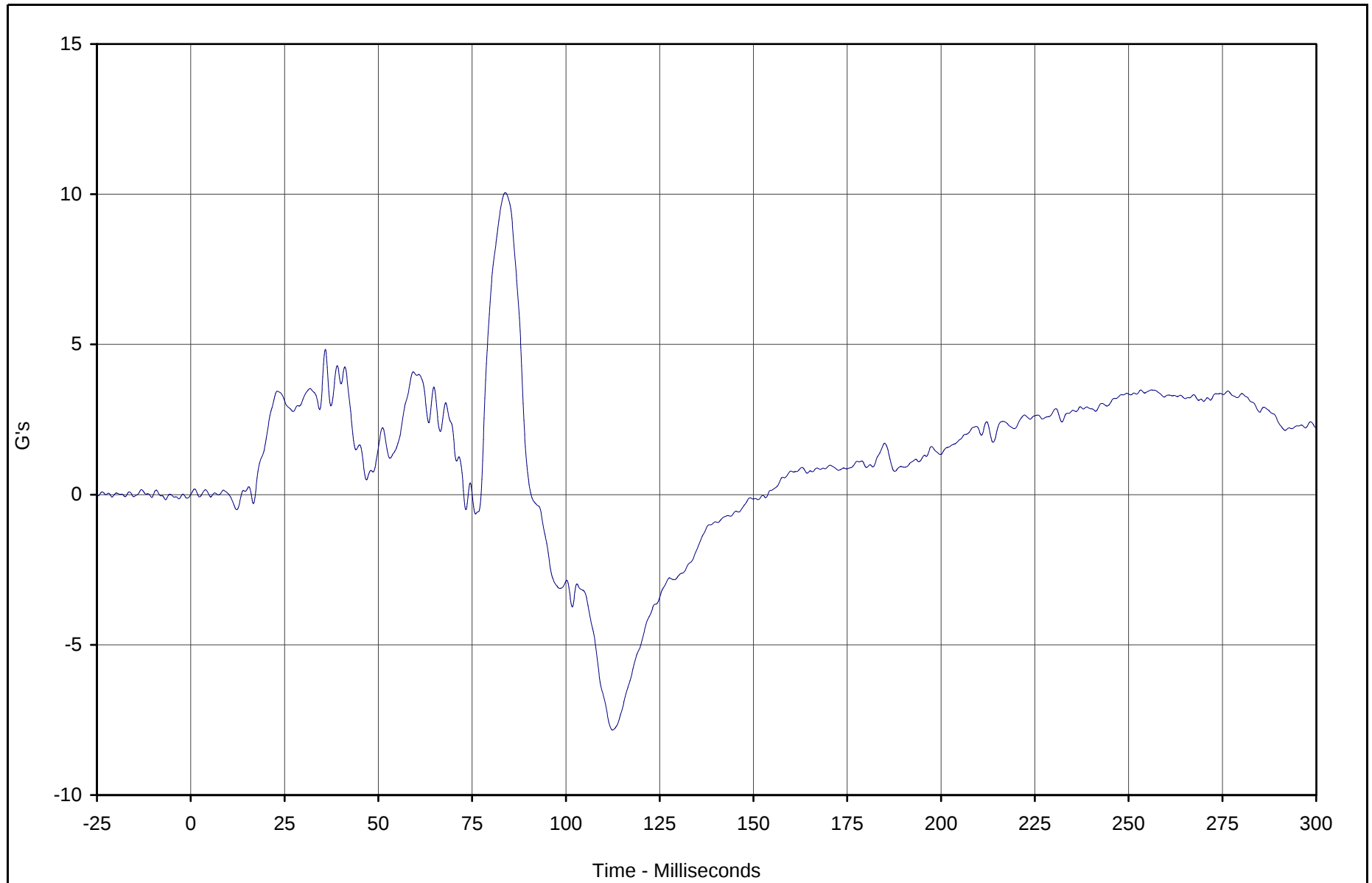
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Chest Primary Z	059	FIL	G's	10.1	83.8	-7.8	112.4	180

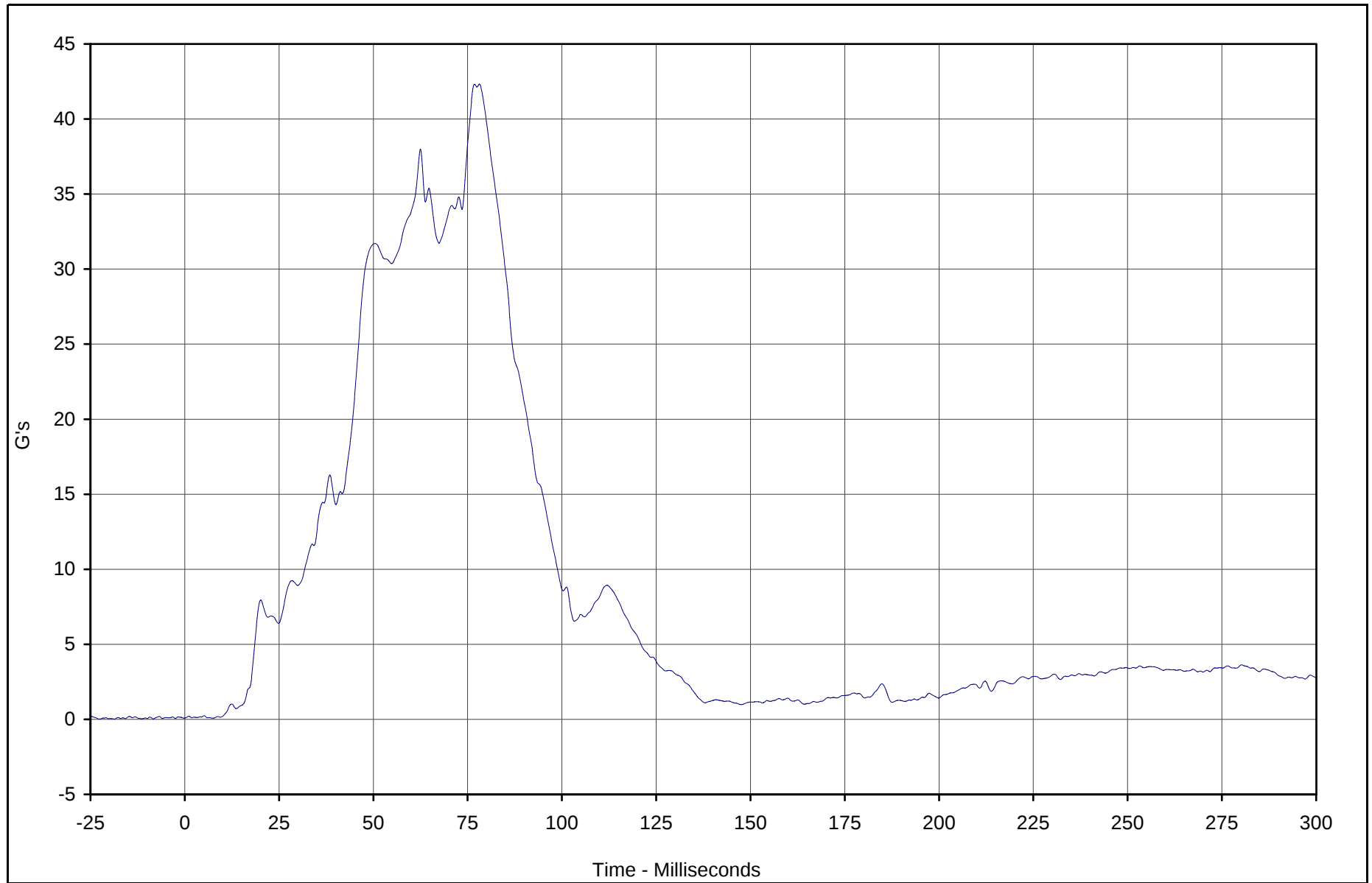


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Chest Resultant Primary	057	RES	G's	42.3	78.1	0.1	7.3	180



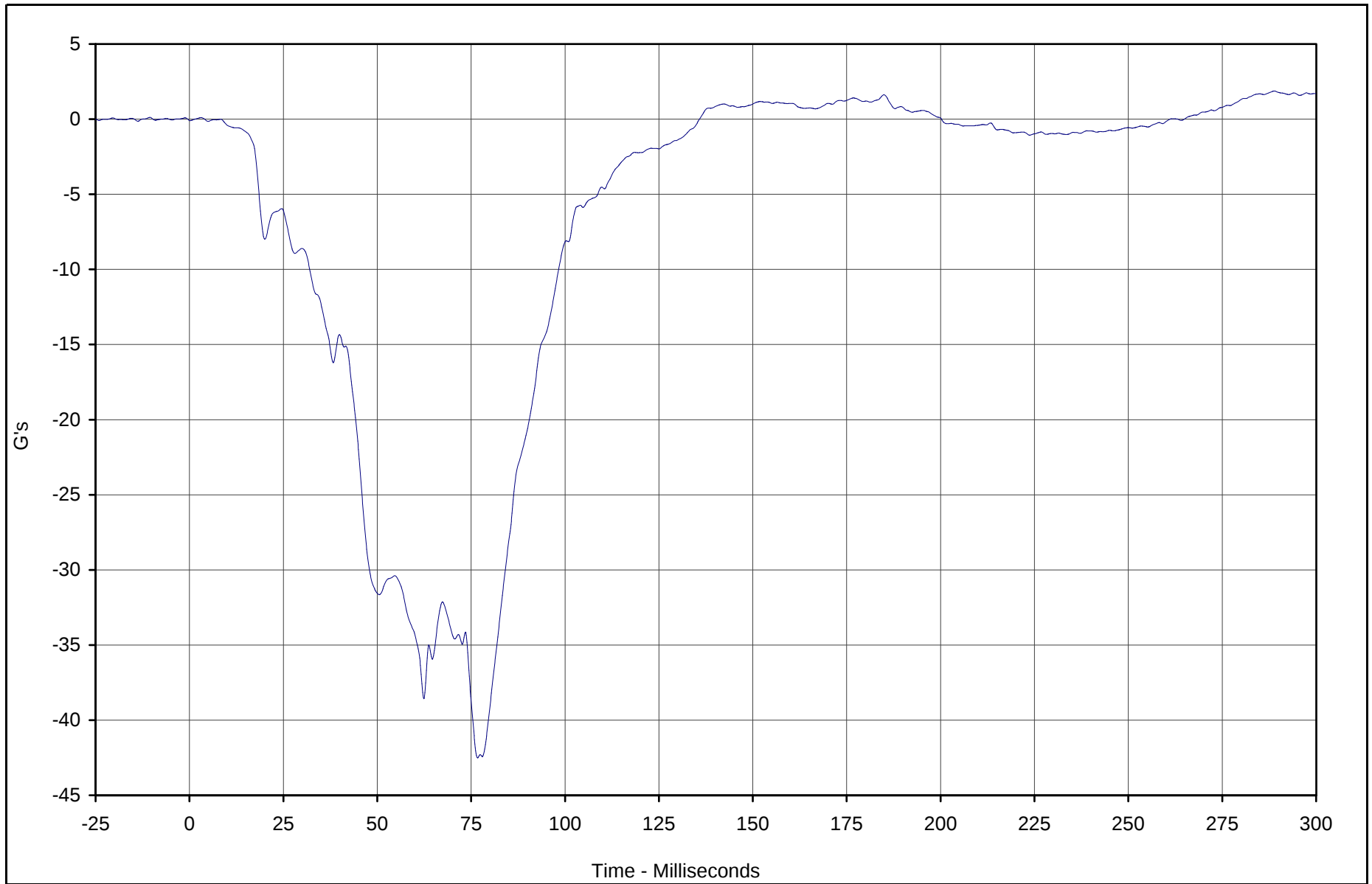
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

B-88



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Chest Redundant X	060	FIL	G's	1.9	288.9	-42.5	76.7	180



Test Vehicle: 2003 Honda Pilot 4WD SUV

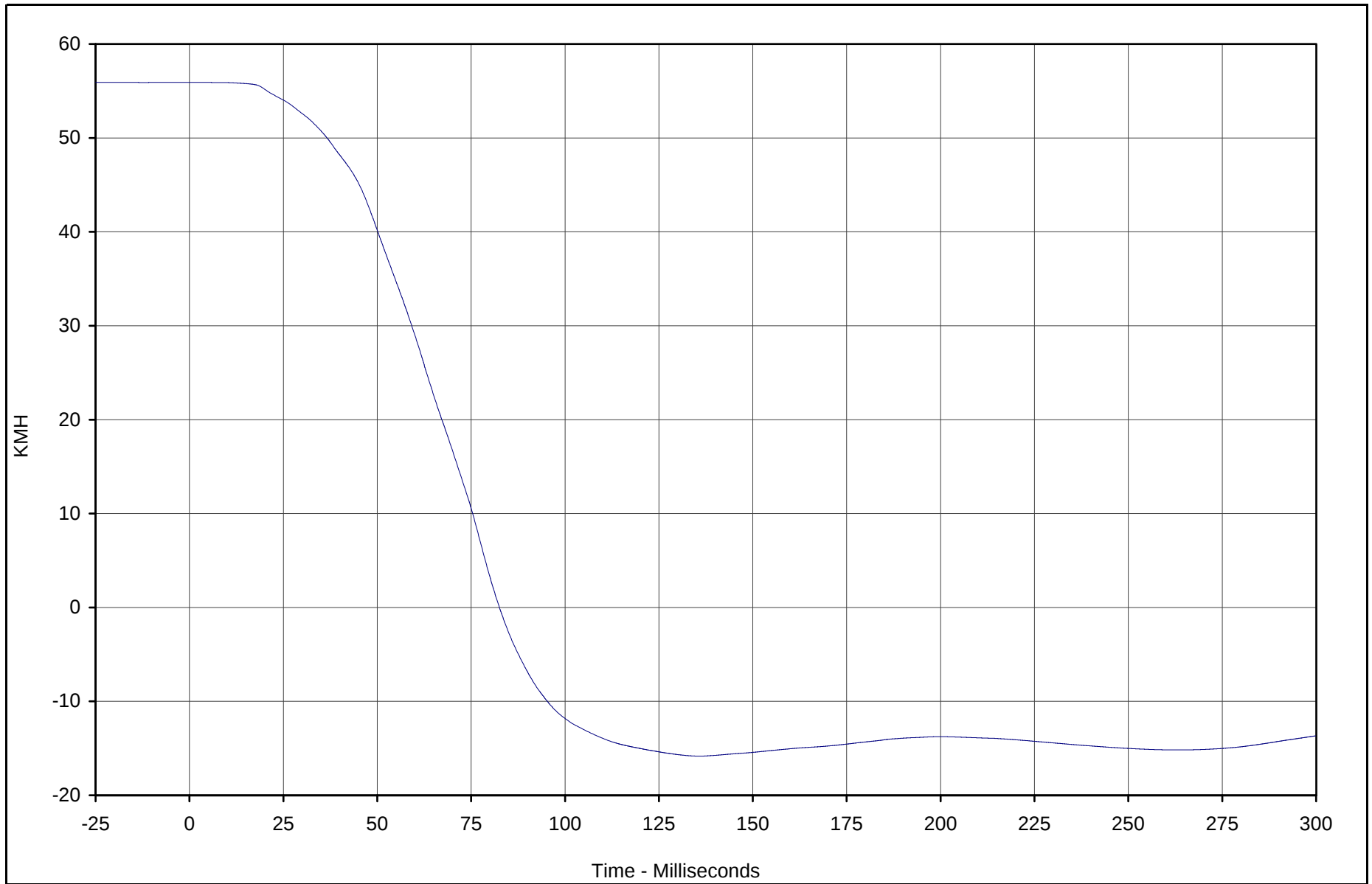
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

B-89



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Chest Redundant X Velocity	060	IN1	KMH	55.9	4.1	-15.8	135.8	180



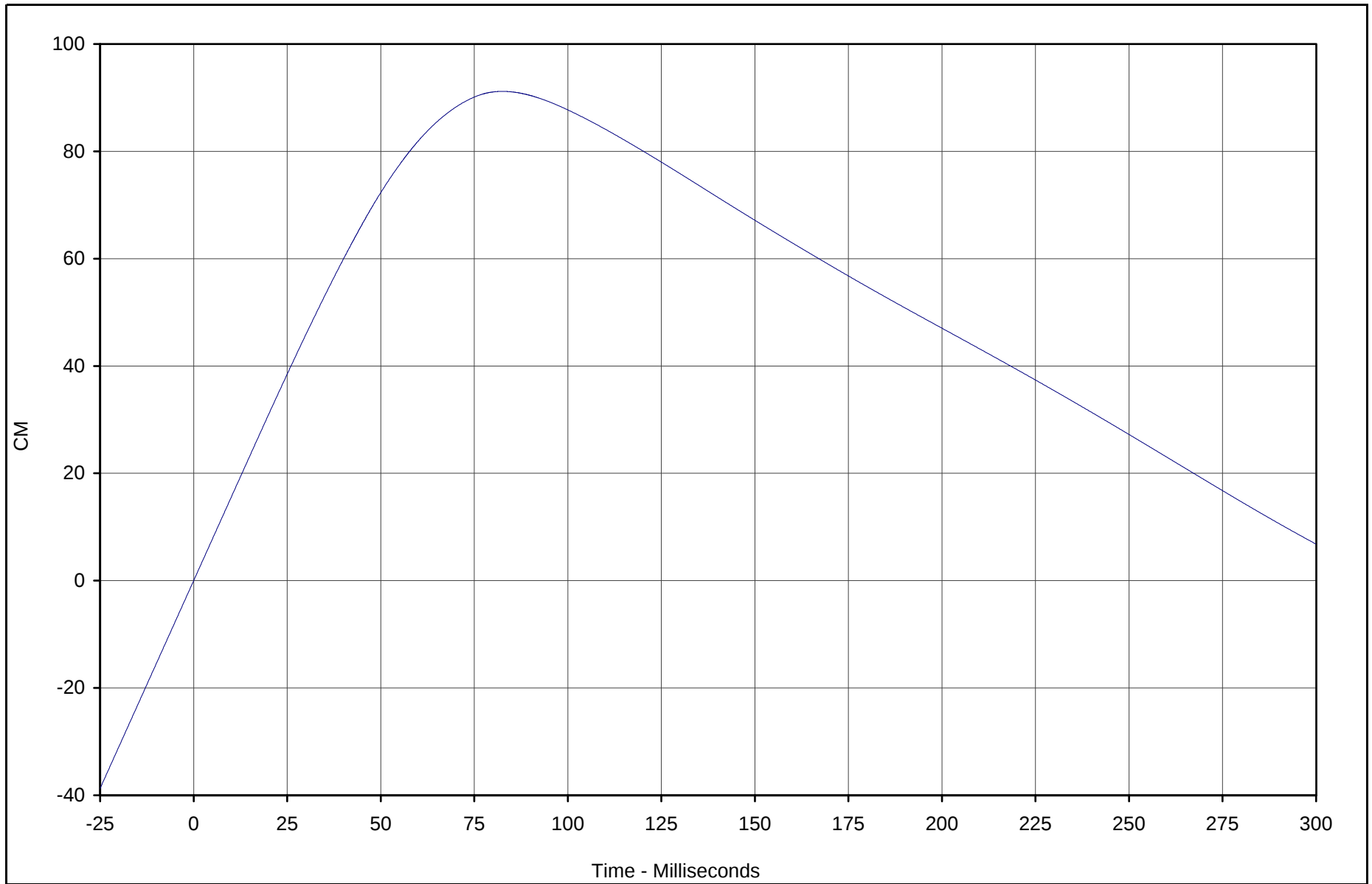
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Chest Redundant X Displ.	060	IN2	CM	91.2	82.5	0.0	0.0	180



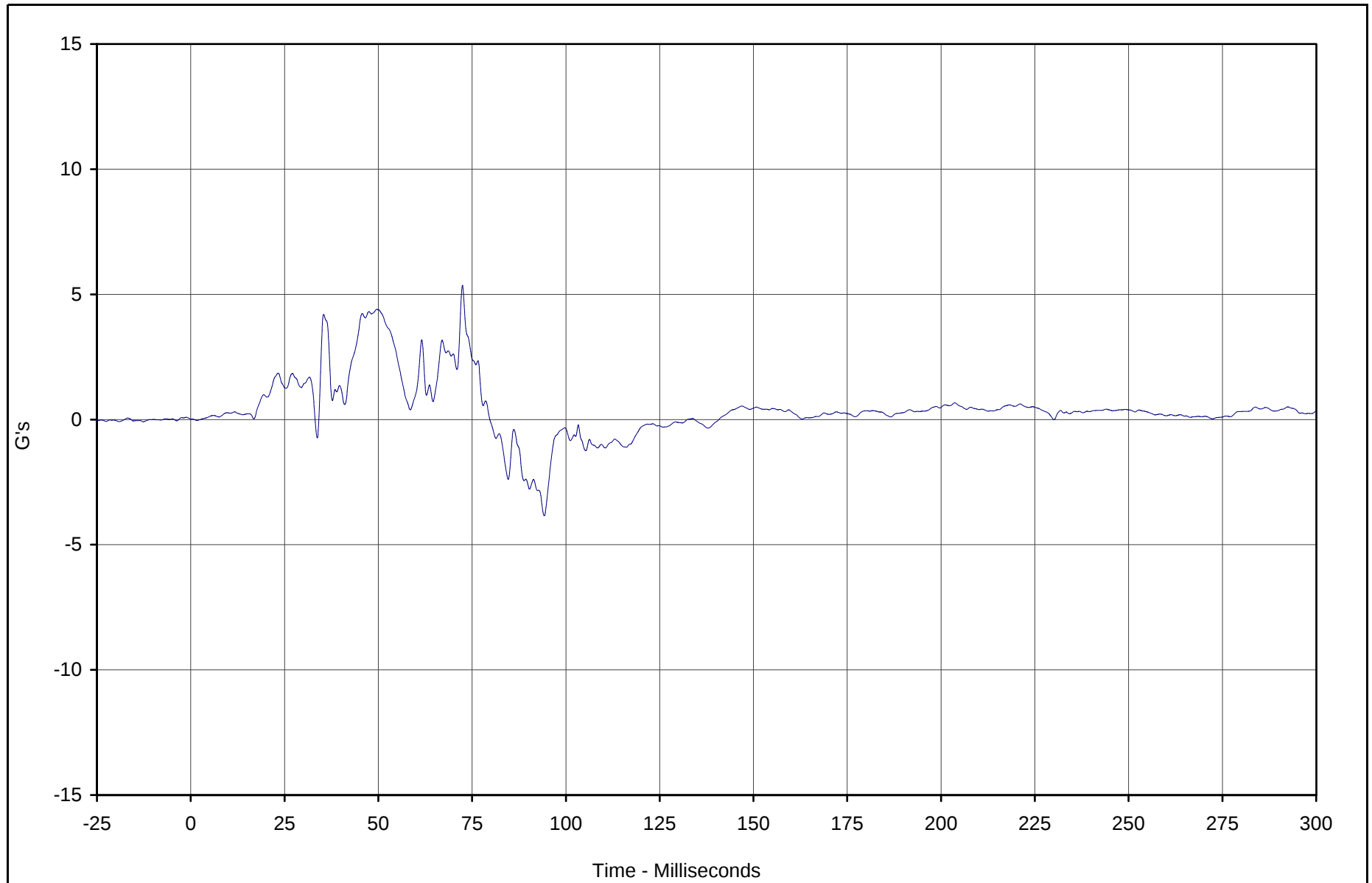
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

B-91



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Chest Redundant Y	061	FIL	G's	5.4	72.4	-3.8	94.2	180



Test Vehicle: 2003 Honda Pilot 4WD SUV

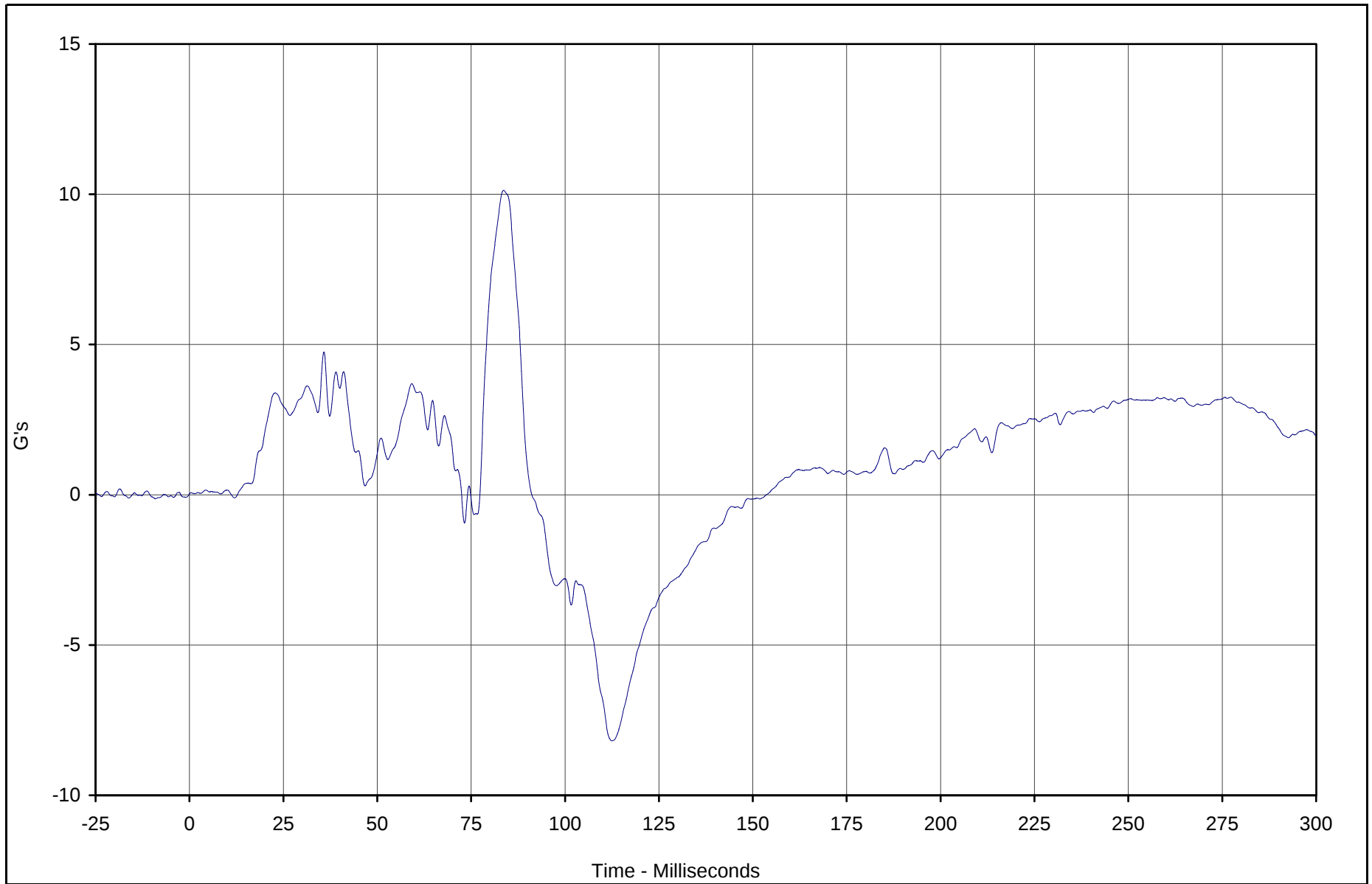
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

B-92



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Chest Redundant Z	062	FIL	G's	10.1	83.6	-8.2	112.5	180



Test Vehicle: 2003 Honda Pilot 4WD SUV

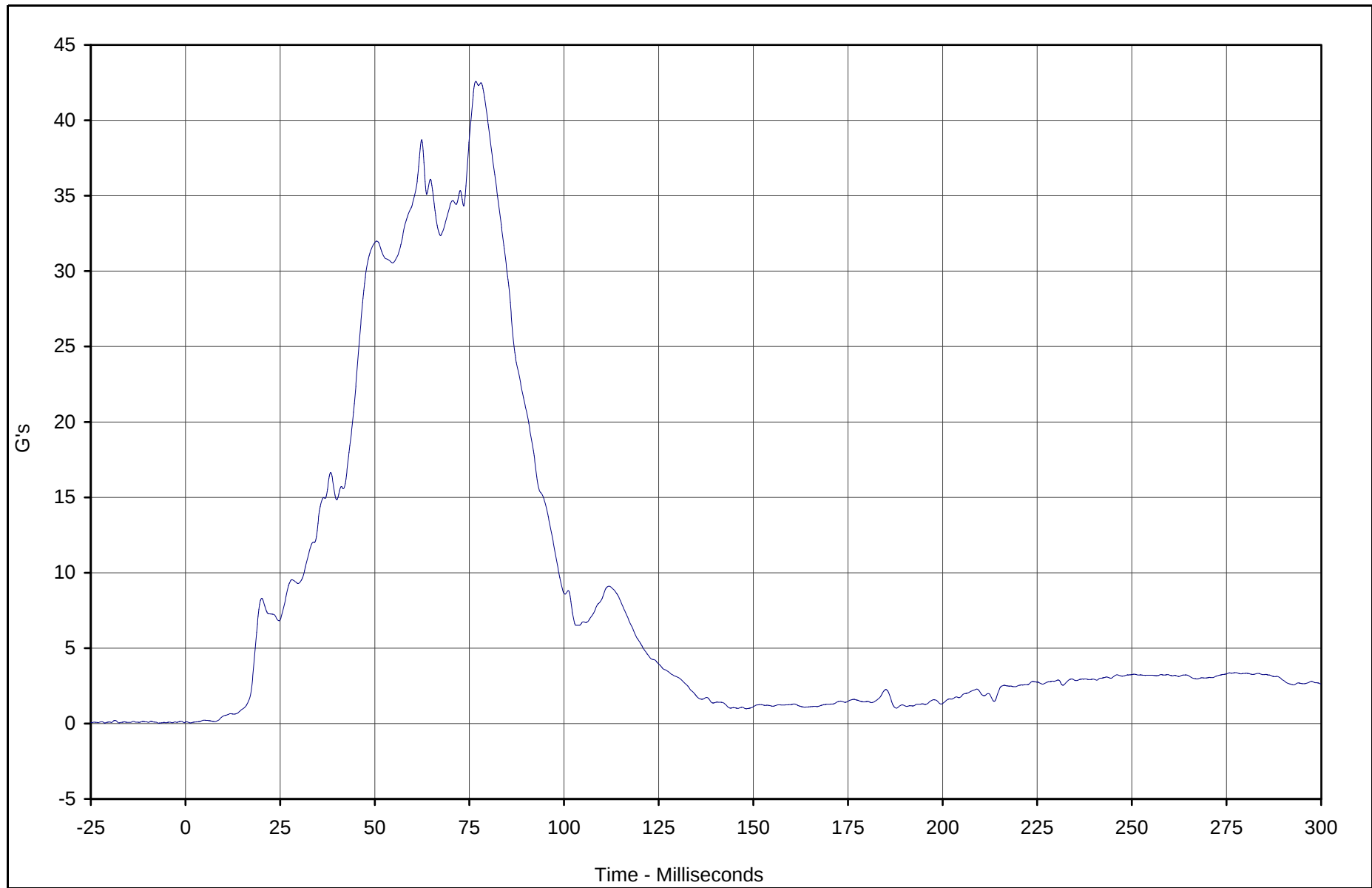
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

B-93



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Chest Resultant Redundant	060	RES	G's	42.6	76.7	0.0	1.3	180



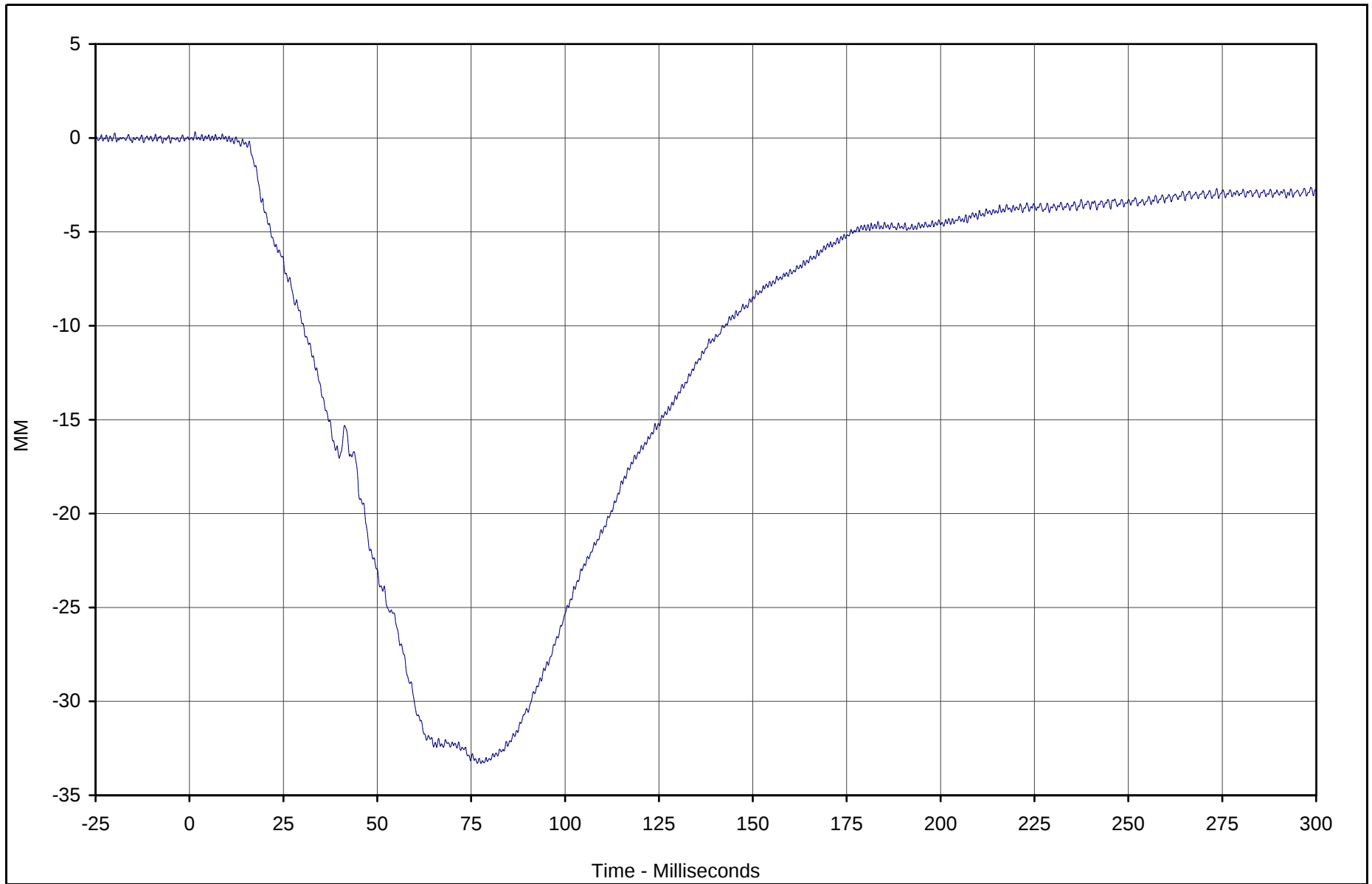
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Chest Displacement X	063	FIL	MM	0.3	1.5	-33.3	77.6	600

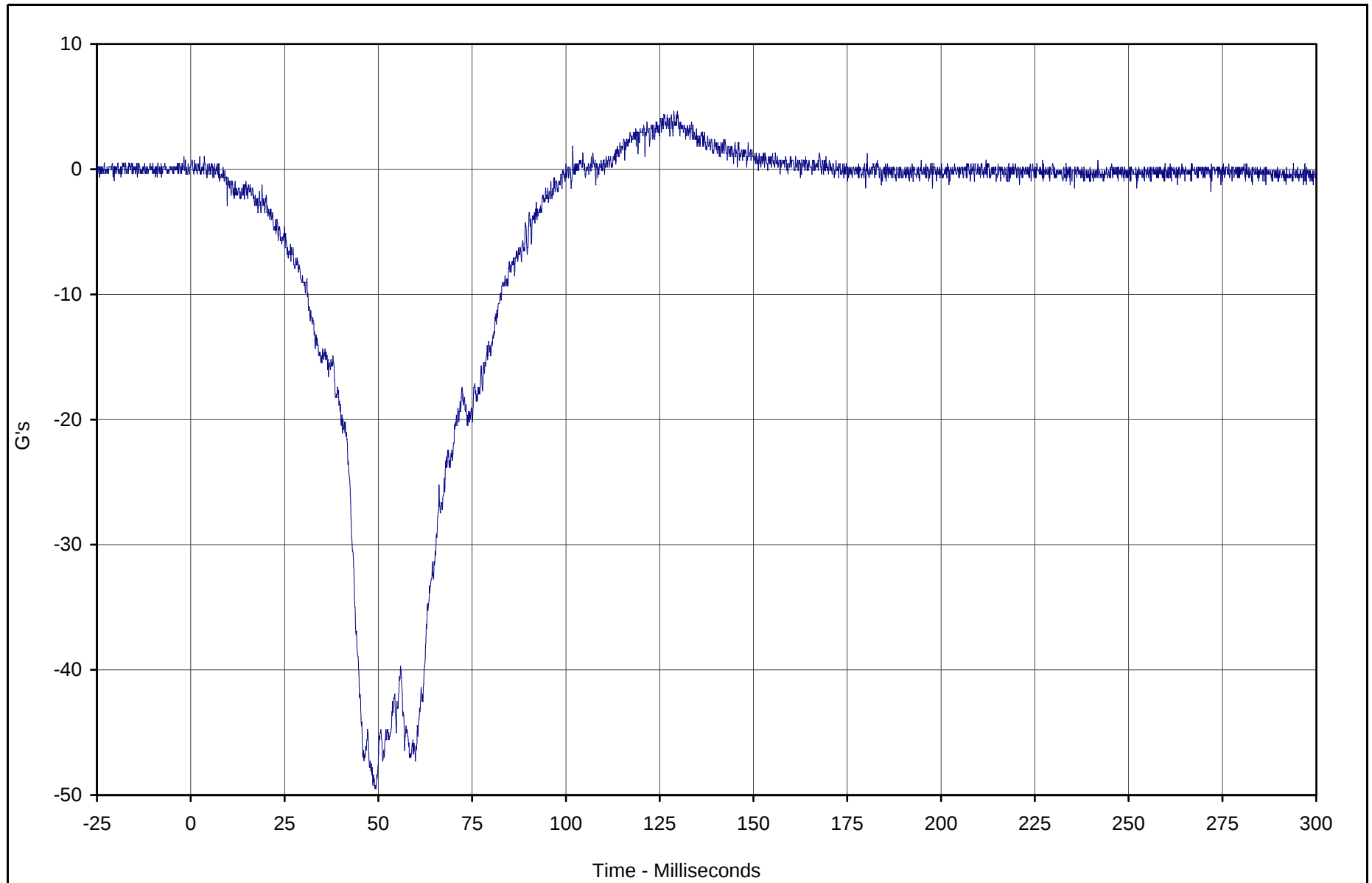


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Pelvis X	064	FIL	G's	4.6	128.8	-49.5	49.1	1000

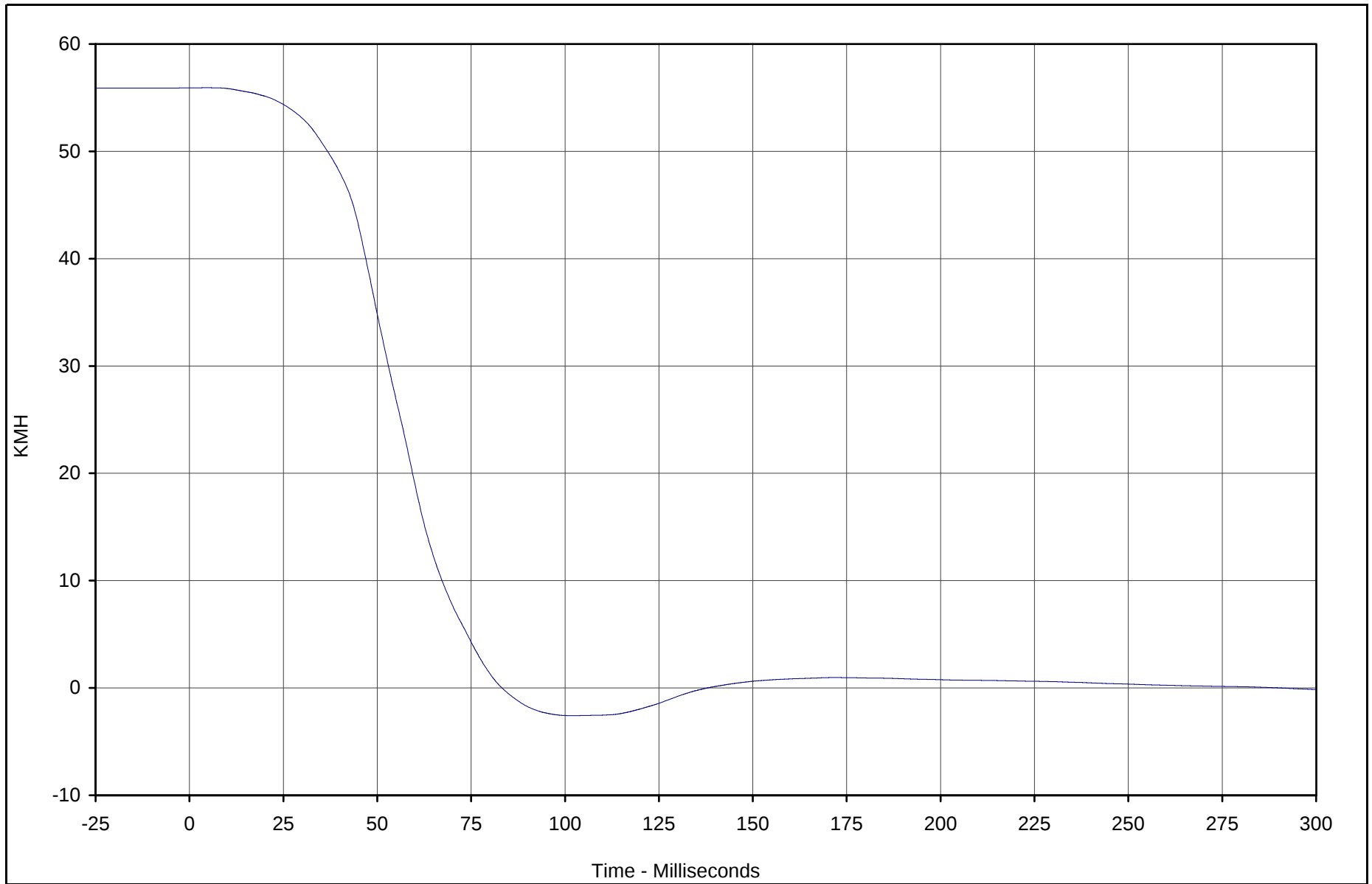


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Pelvis X Velocity	064	IN1	KMH	55.9	4.2	-2.6	102.2	180

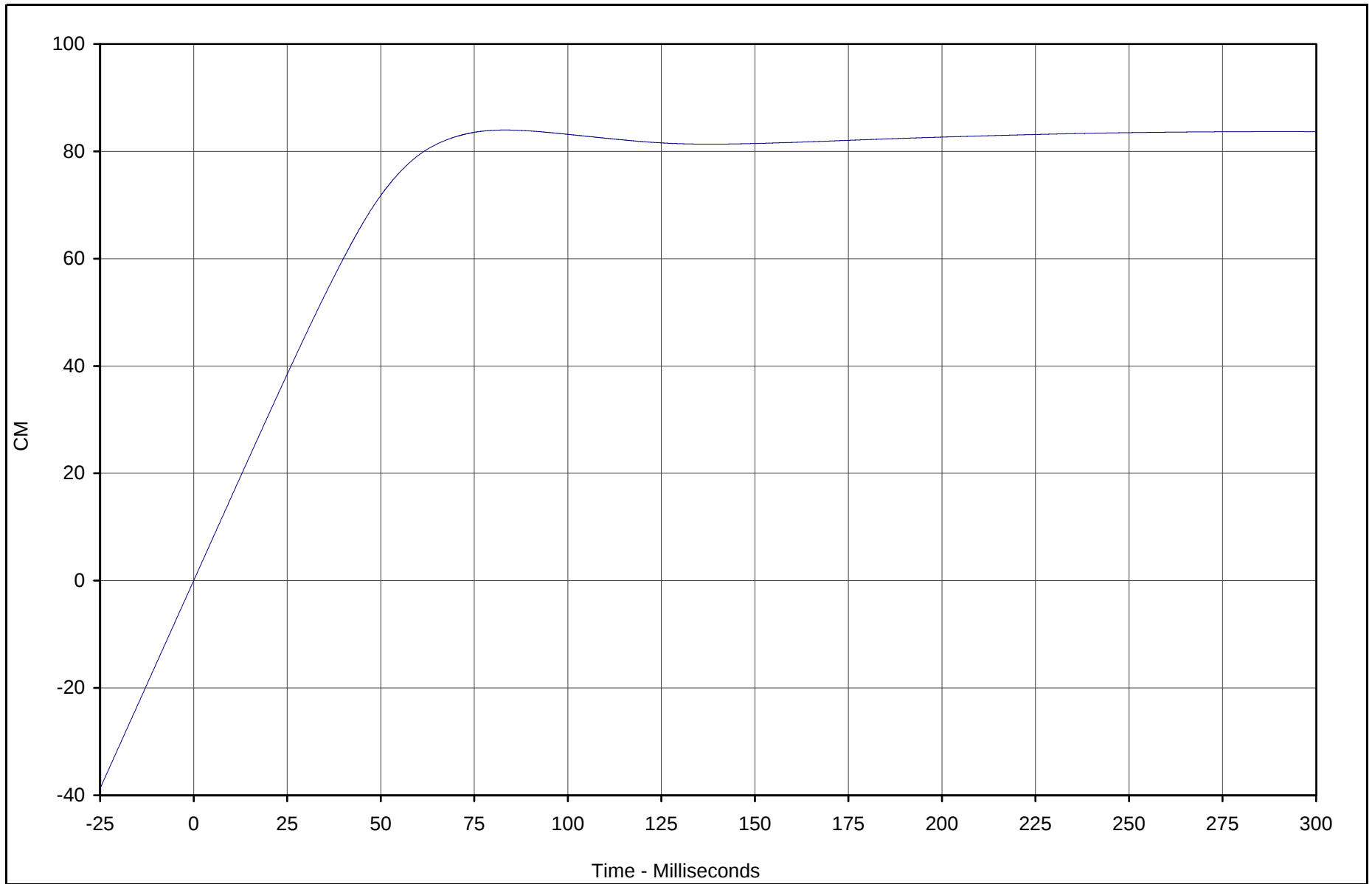


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Pelvis X Displ.	064	IN2	CM	84.0	83.2	0.0	0.0	180

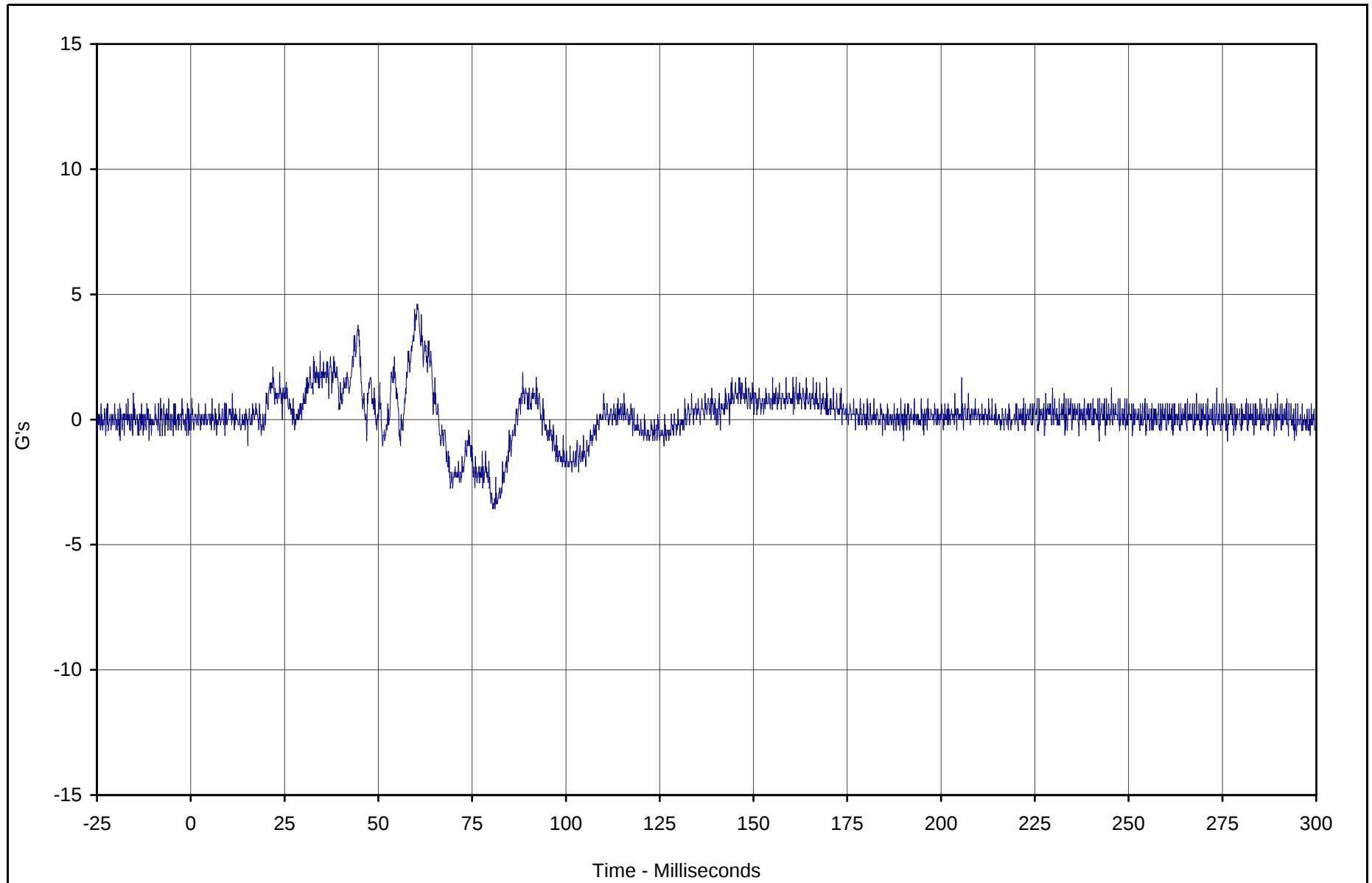


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Pelvis Y	065	FIL	G's	4.6	60.3	-3.6	80.5	1000

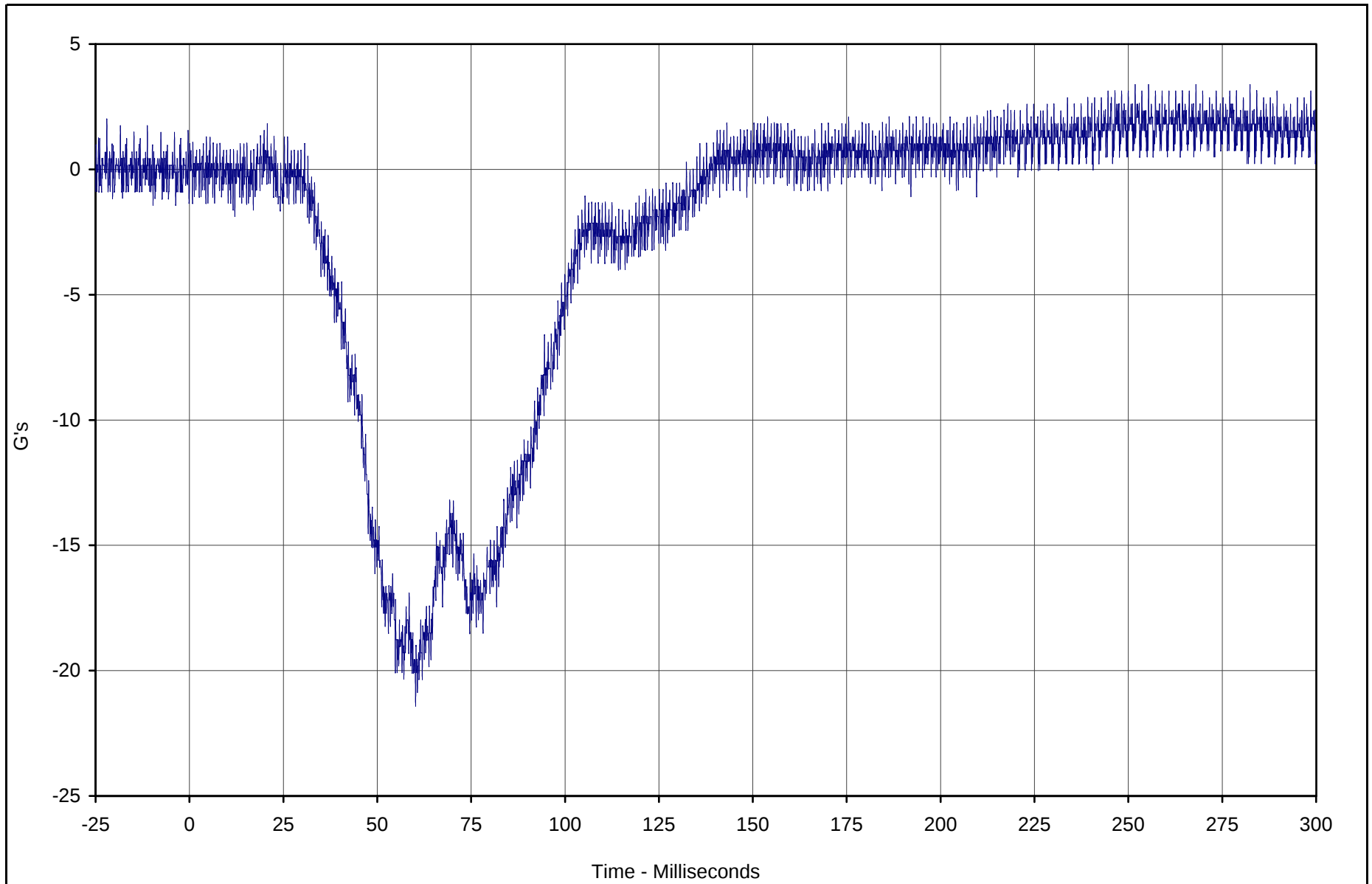


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Pelvis Z	066	FIL	G's	3.4	251.8	-21.4	60.2	1000



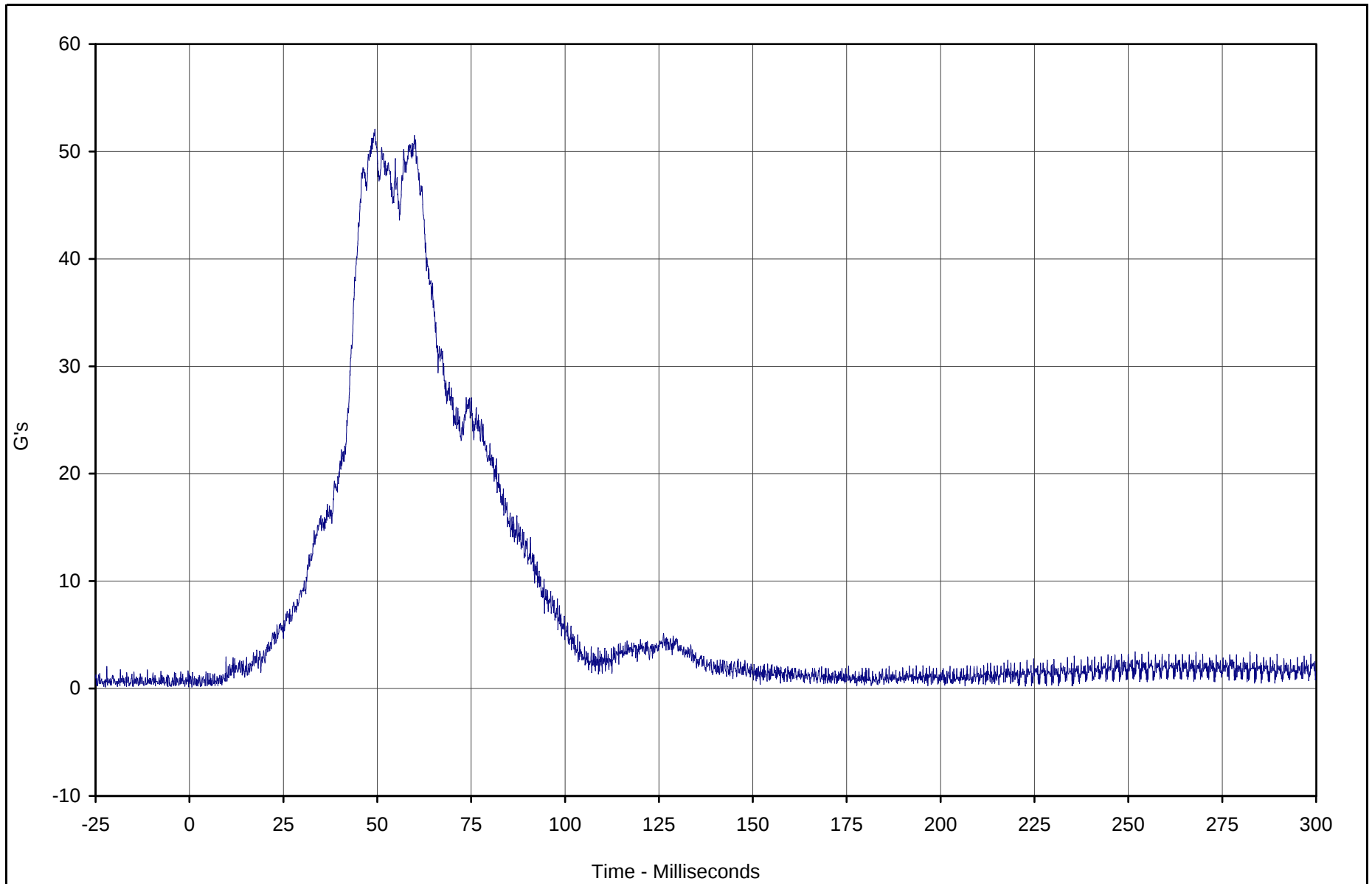
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

B-100



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Pelvis Resultant	066	RES	G's	52.1	49.4	0.1	0.6	1000



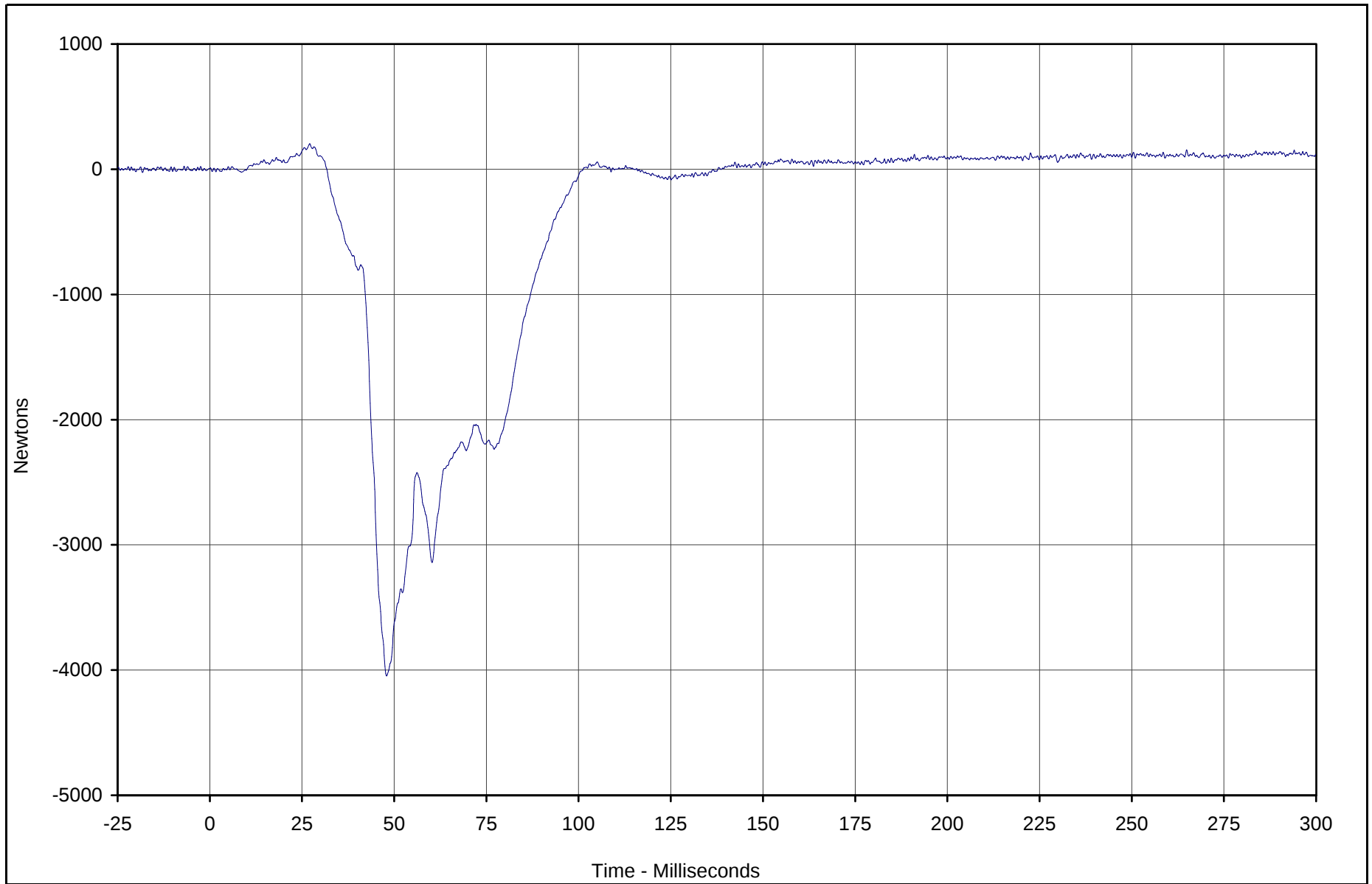
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Left Femur Force	067	FIL	Newtons	203.3	27.1	-4046.2	47.9	600

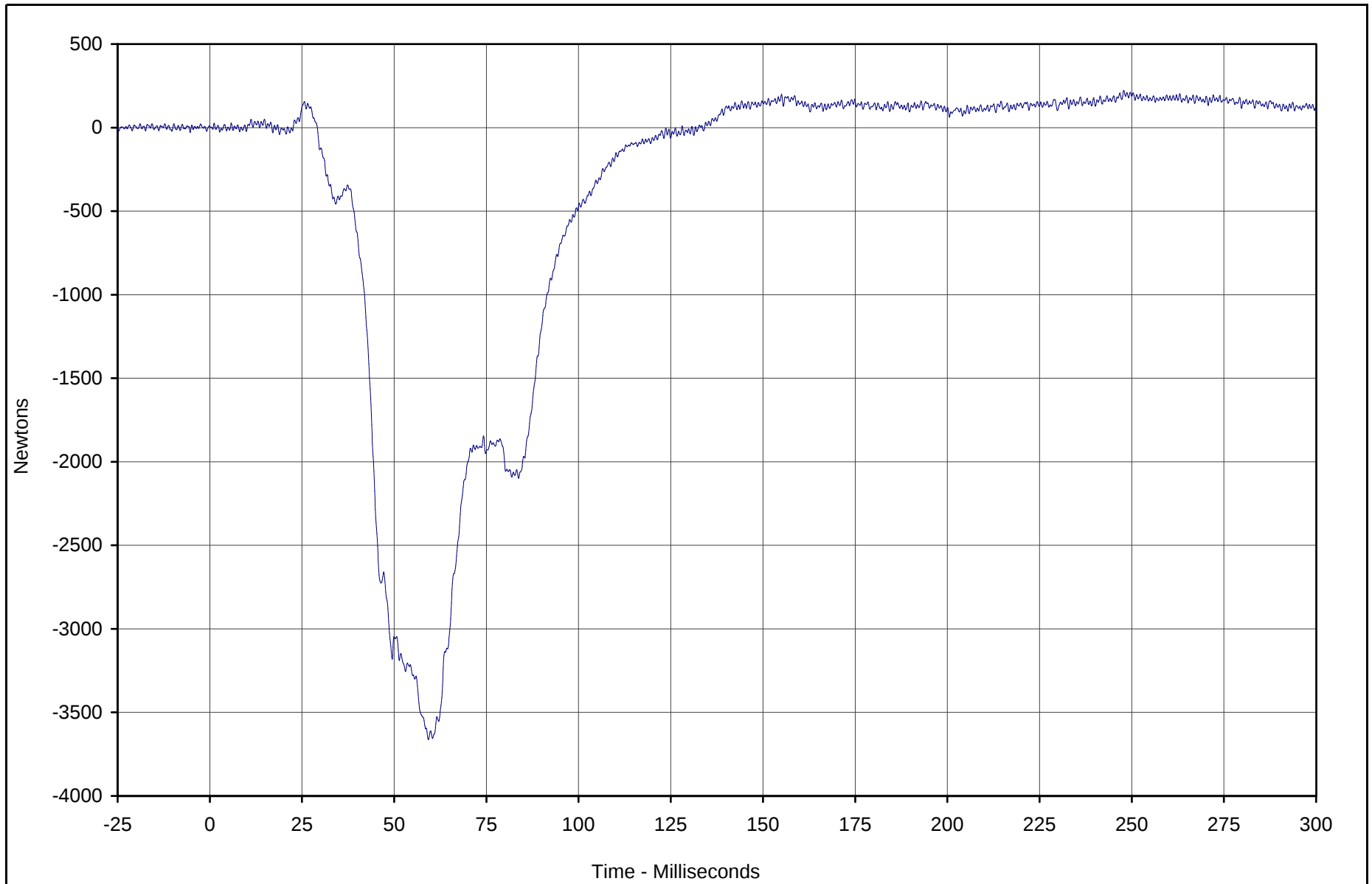


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Right Femur Force	068	FIL	Newtons	222.1	247.9	-3663.7	59.3	600

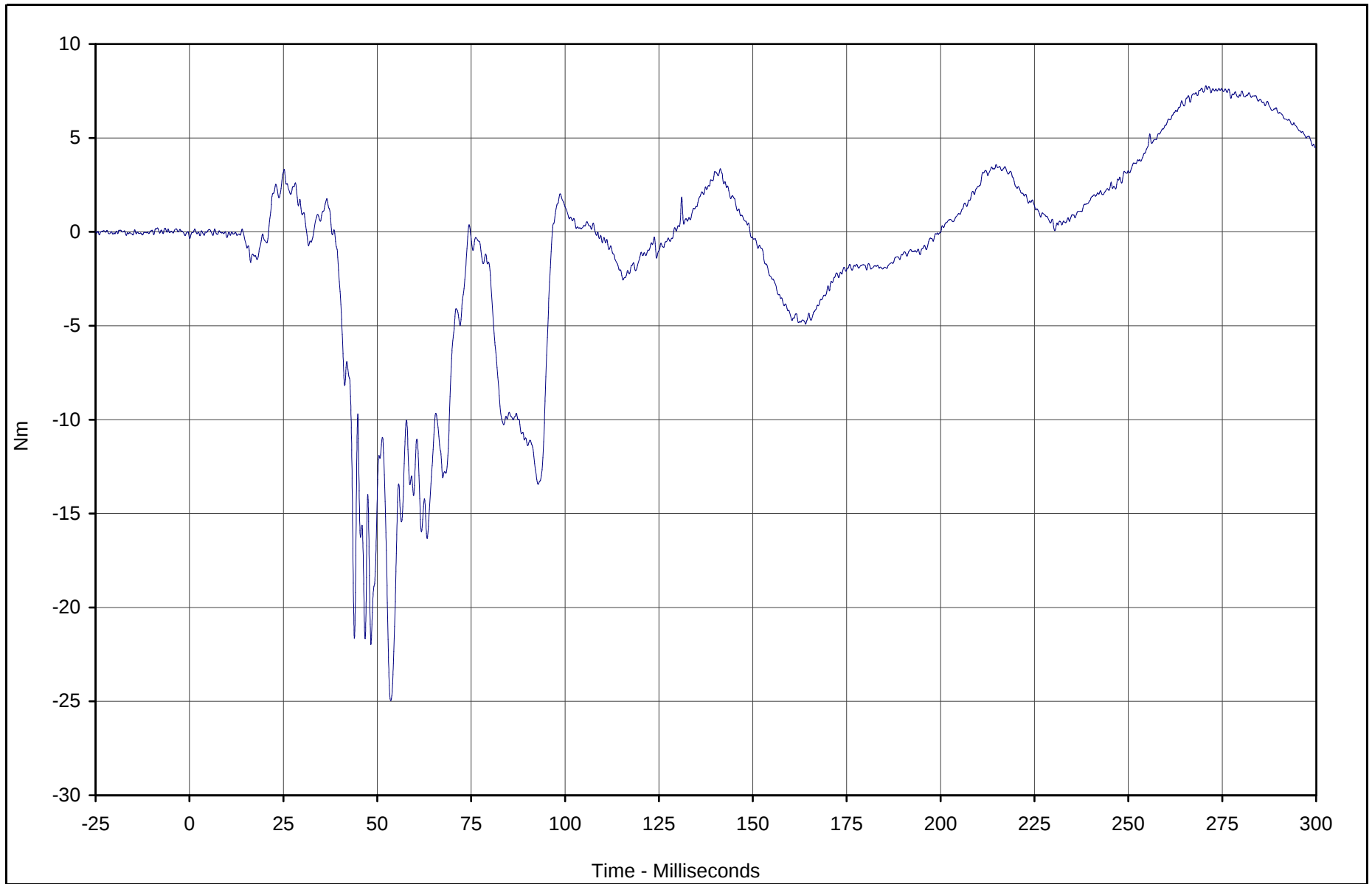


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Left Upper Tibia Moment X	069	FIL	Nm	7.8	270.6	-25.0	53.6	600

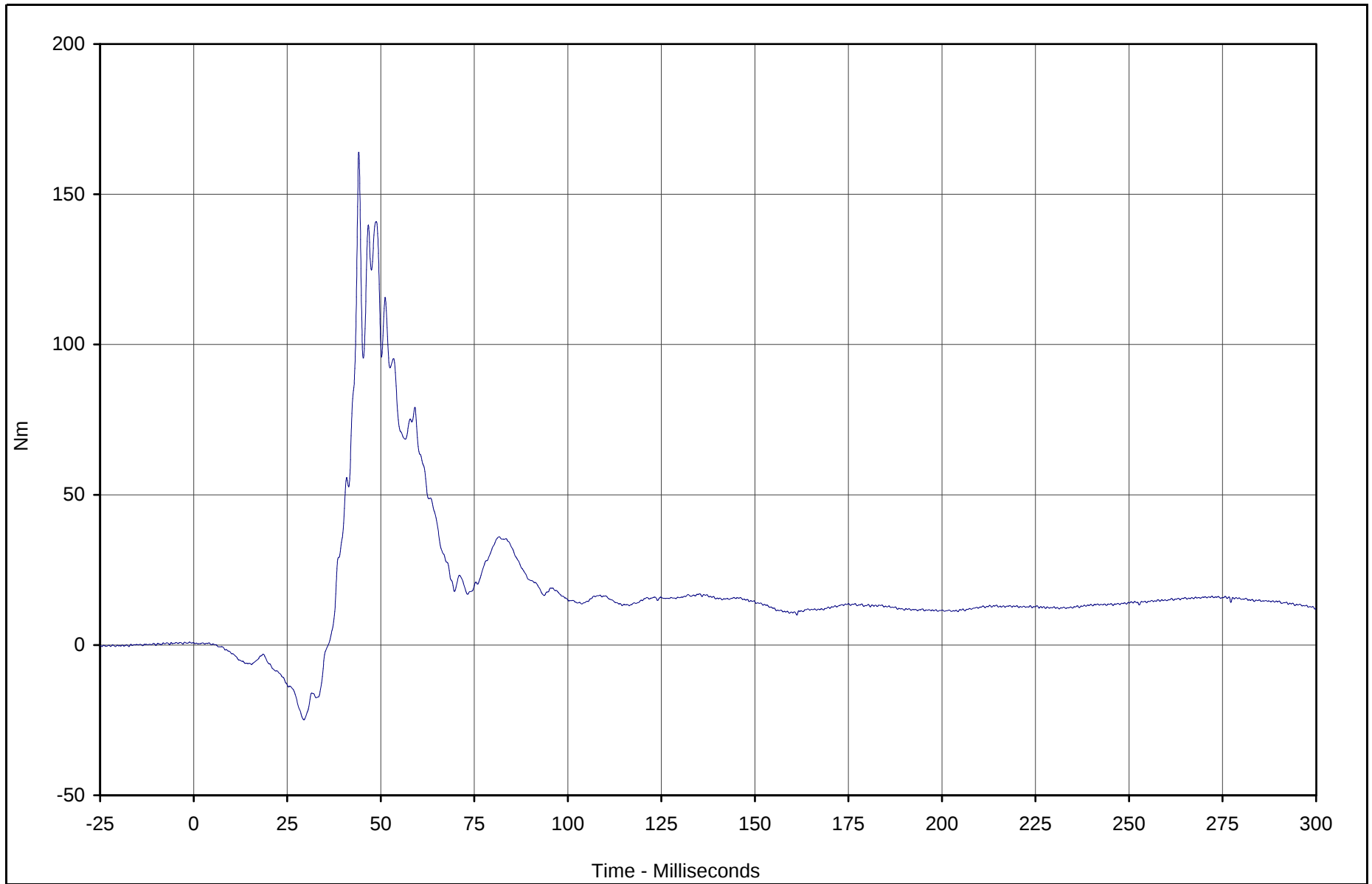


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Left Upper Tibia Moment Y	070	FIL	Nm	164.0	44.1	-24.9	29.5	600

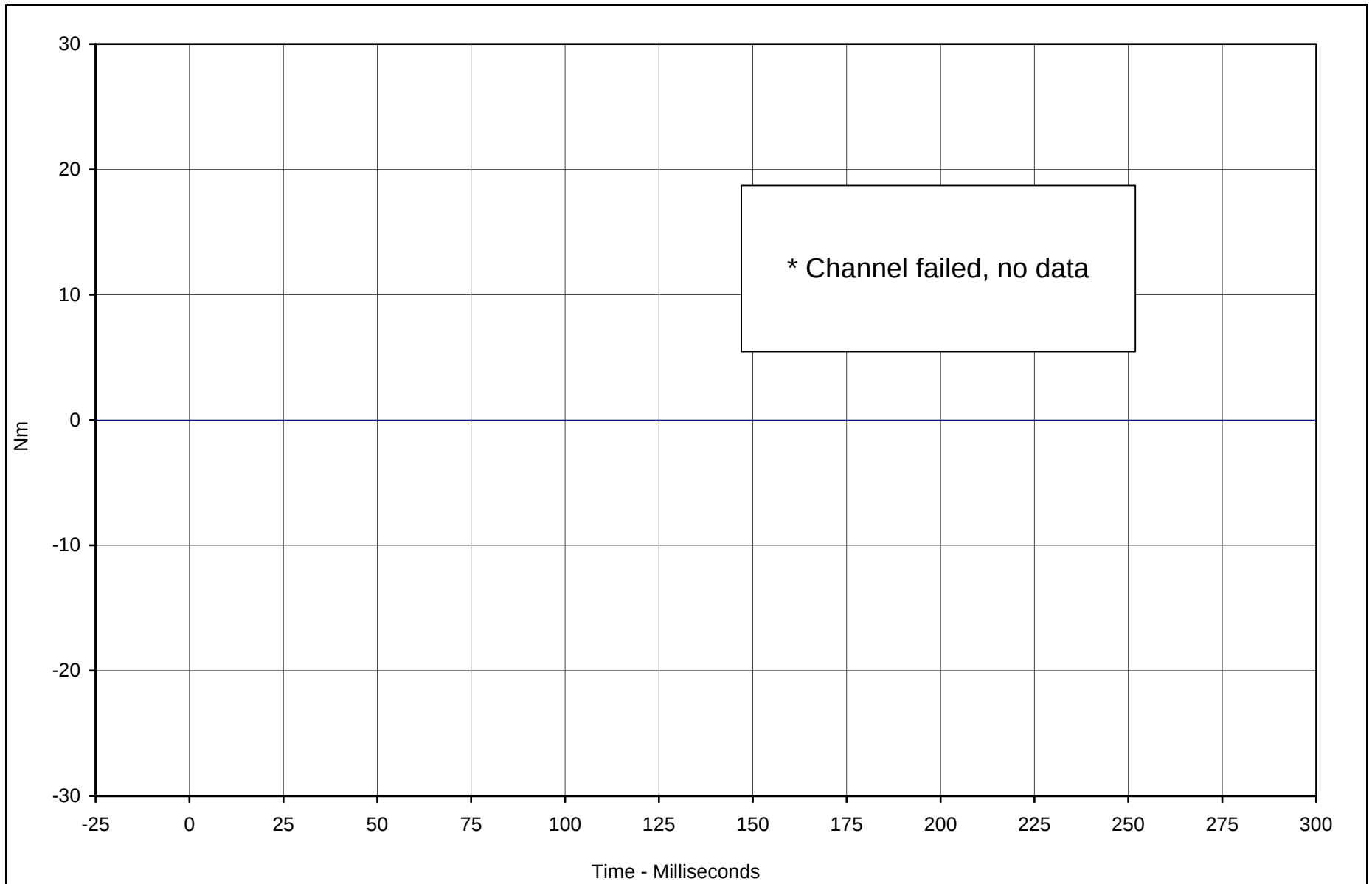


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



* Channel failed, no data

Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Right Upper Tibia Moment X	071	FIL	Nm	0.0	0.0	0.0	0.0	600

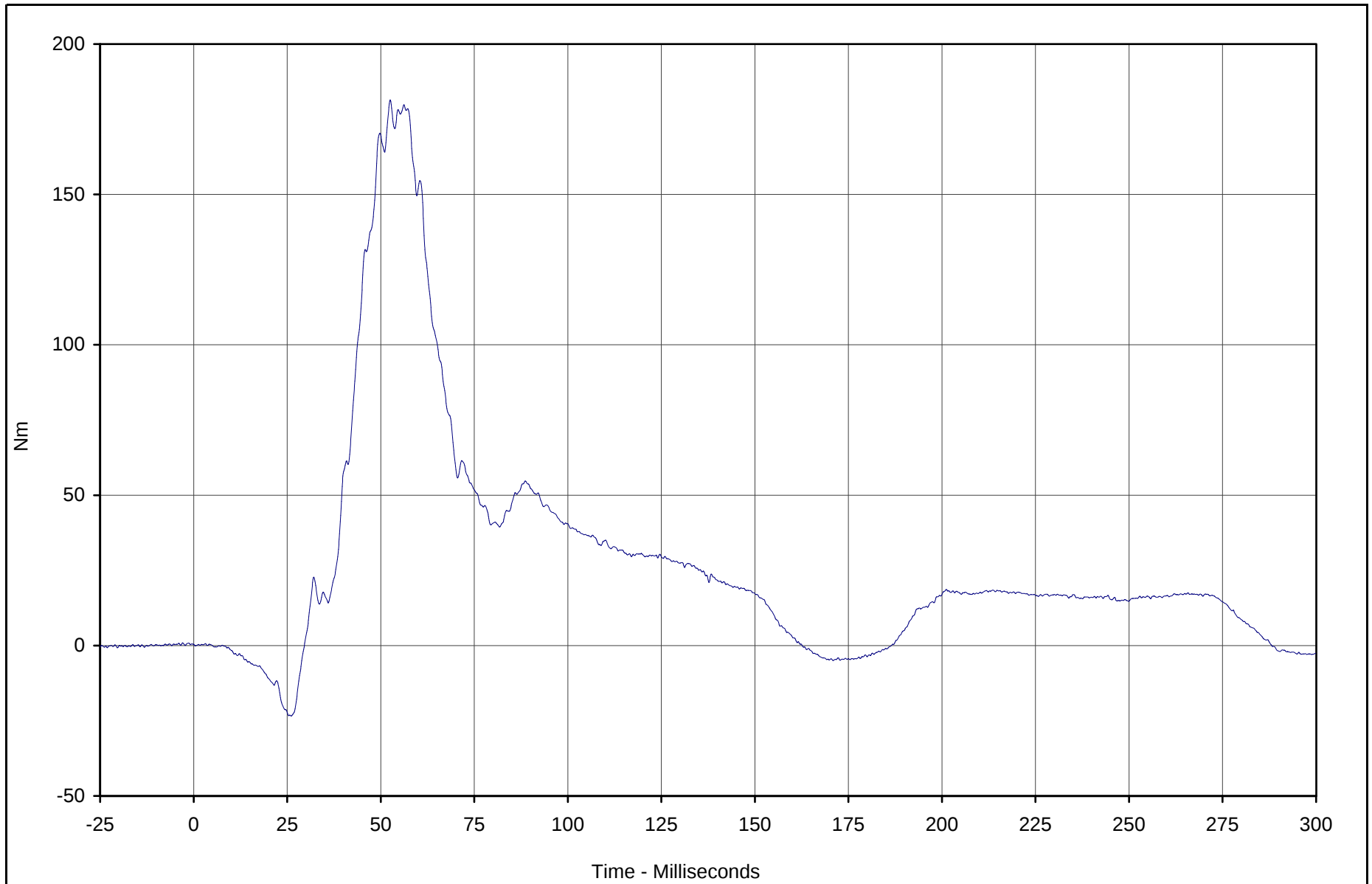


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Right Upper Tibia Moment Y	072	FIL	Nm	181.4	52.5	-23.4	26.1	600

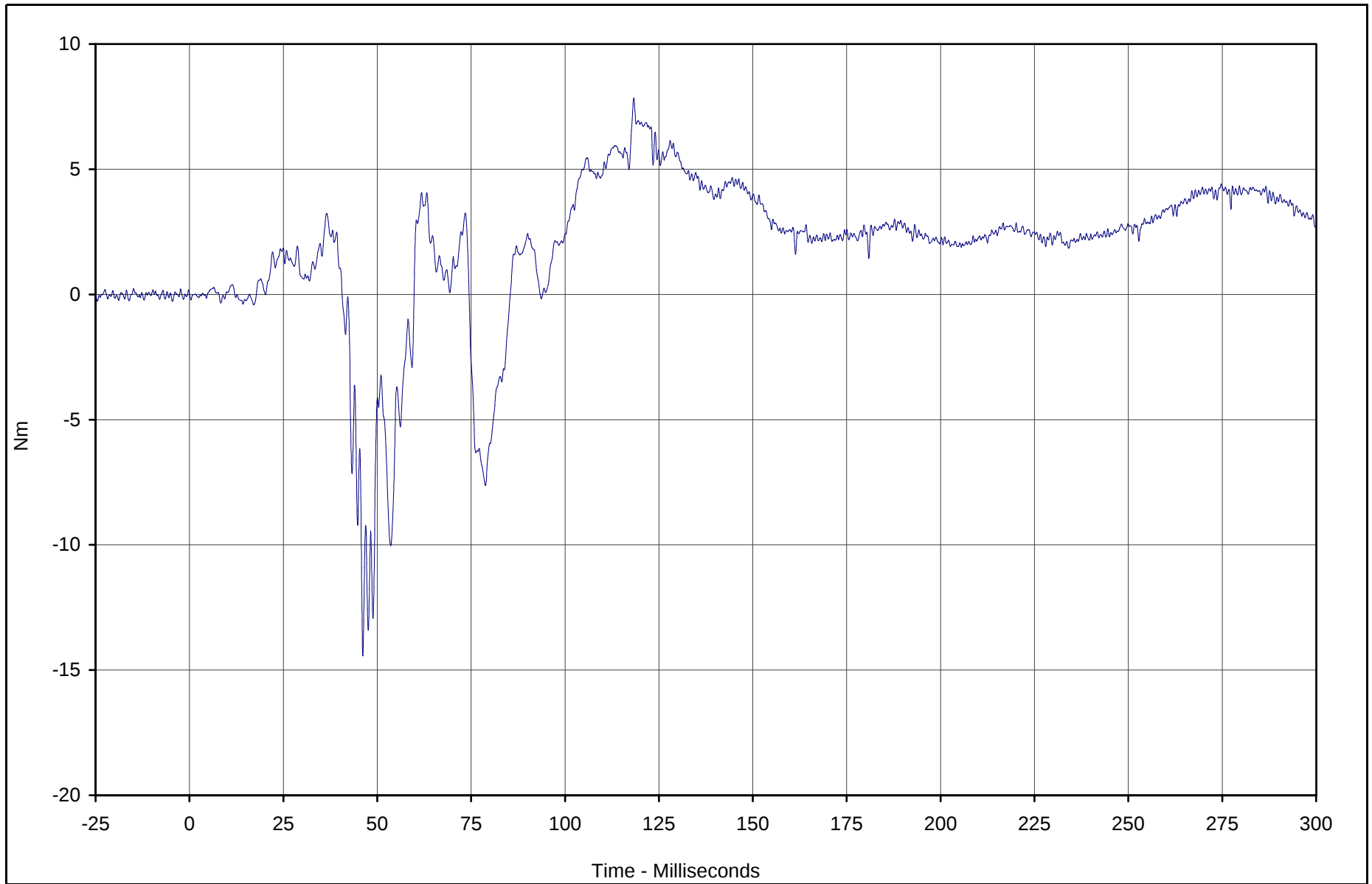


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Left Lower Tibia Moment X	073	FIL	Nm	7.8	118.3	-14.4	46.2	600

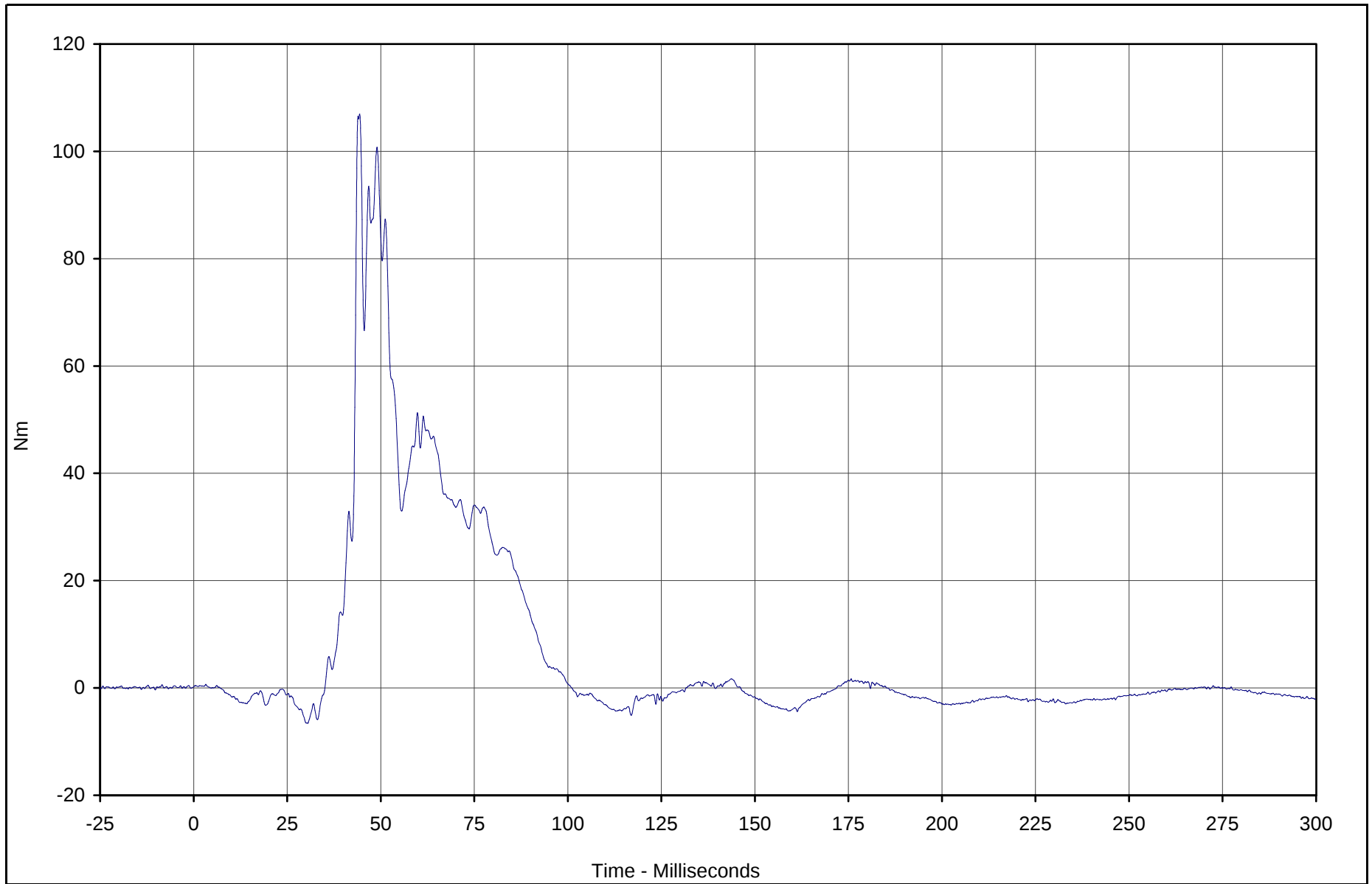


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Left Lower Tibia Moment Y	074	FIL	Nm	107.0	44.4	-6.6	30.5	600

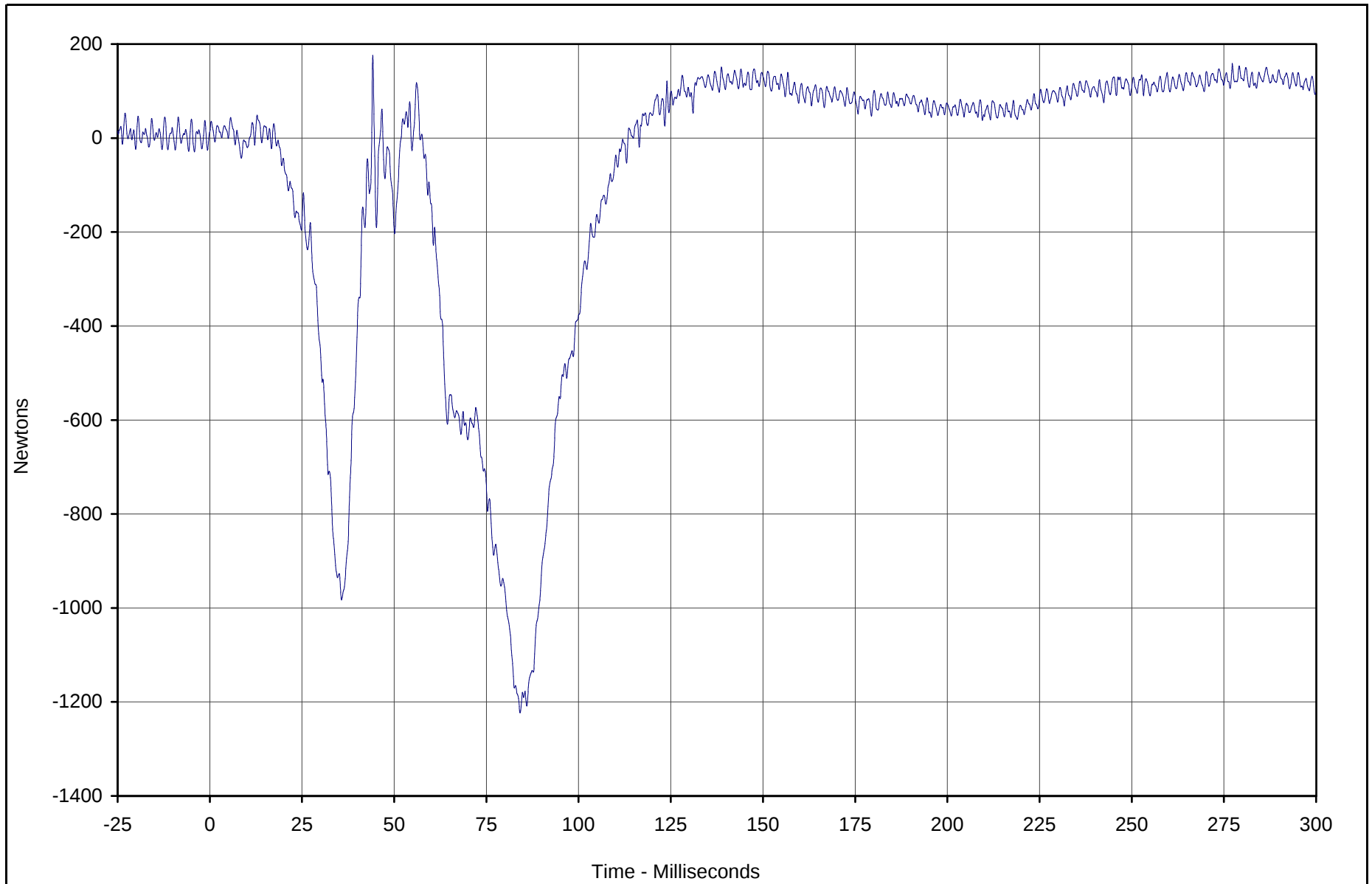


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Left Lower Tibia Force Z	075	FIL	Newtons	175.9	44.2	-1222.9	84.1	600

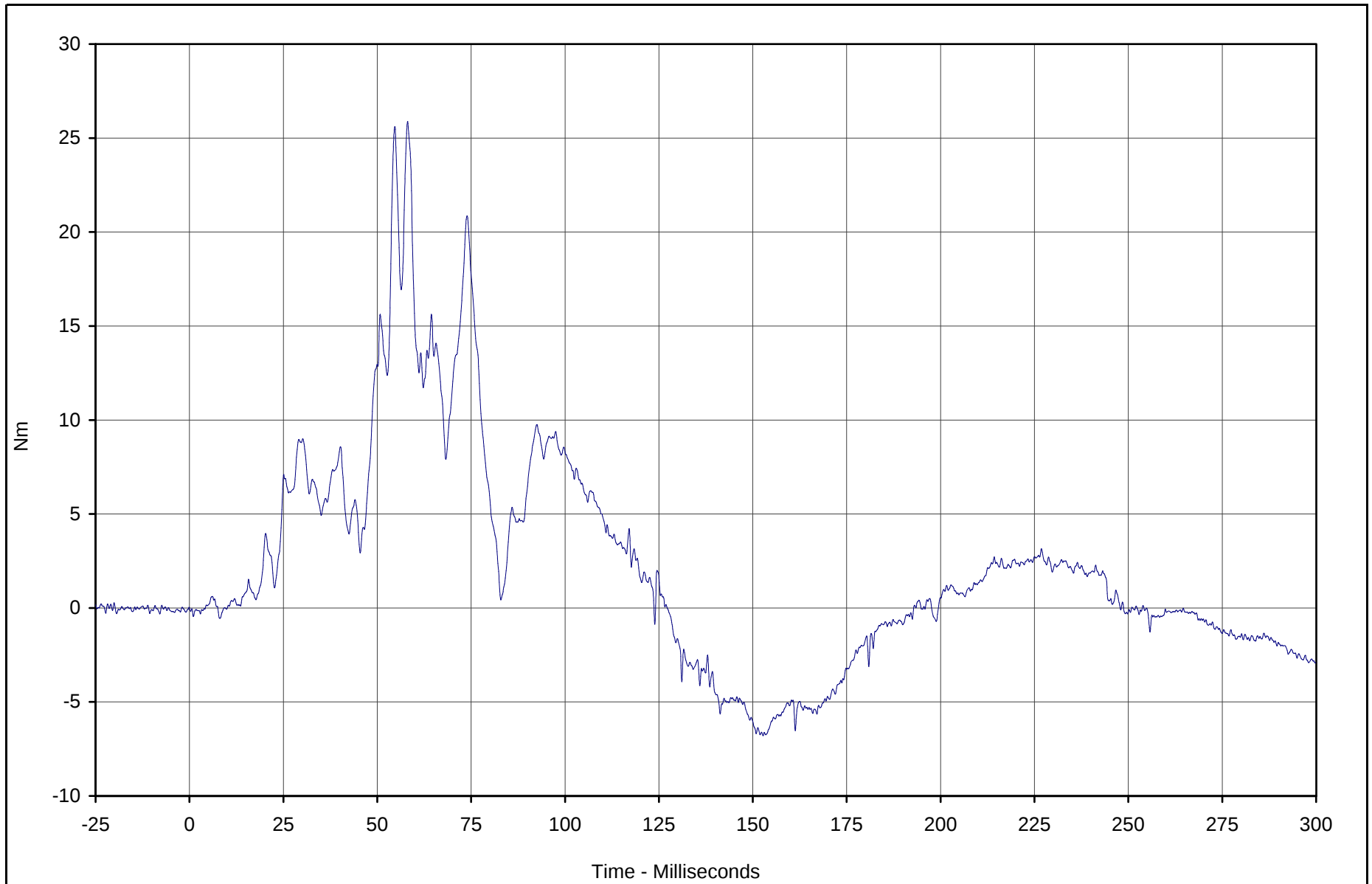


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Right Lower Tibia Moment X	076	FIL	Nm	25.9	58.1	-6.8	152.7	600



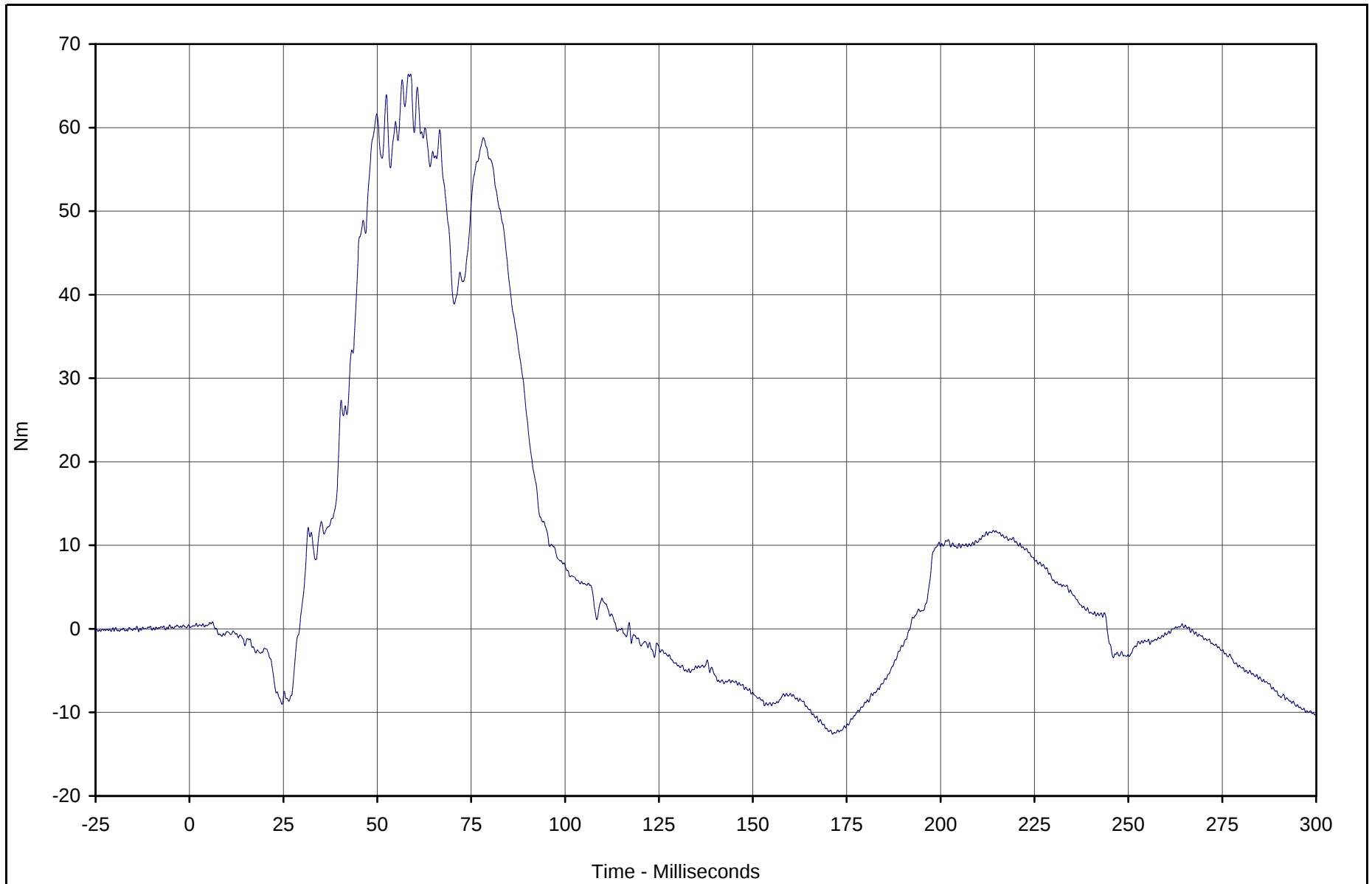
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

B-111



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Right Lower Tibia Moment Y	077	FIL	Nm	66.4	58.9	-12.6	171.2	600



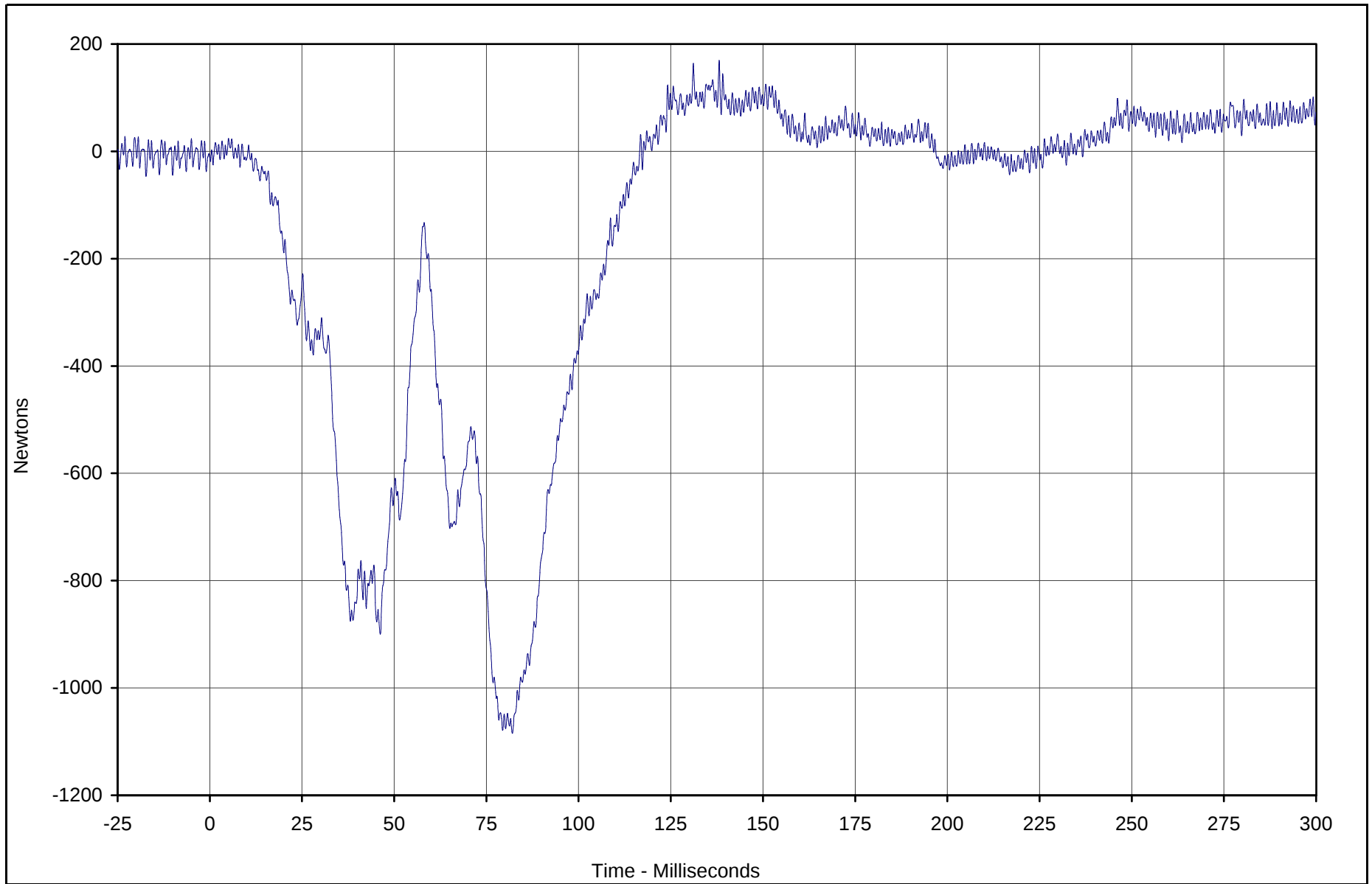
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Right lower Tibia Force Z	078	FIL	Newtons	169.4	138.1	-1084.5	82.0	600

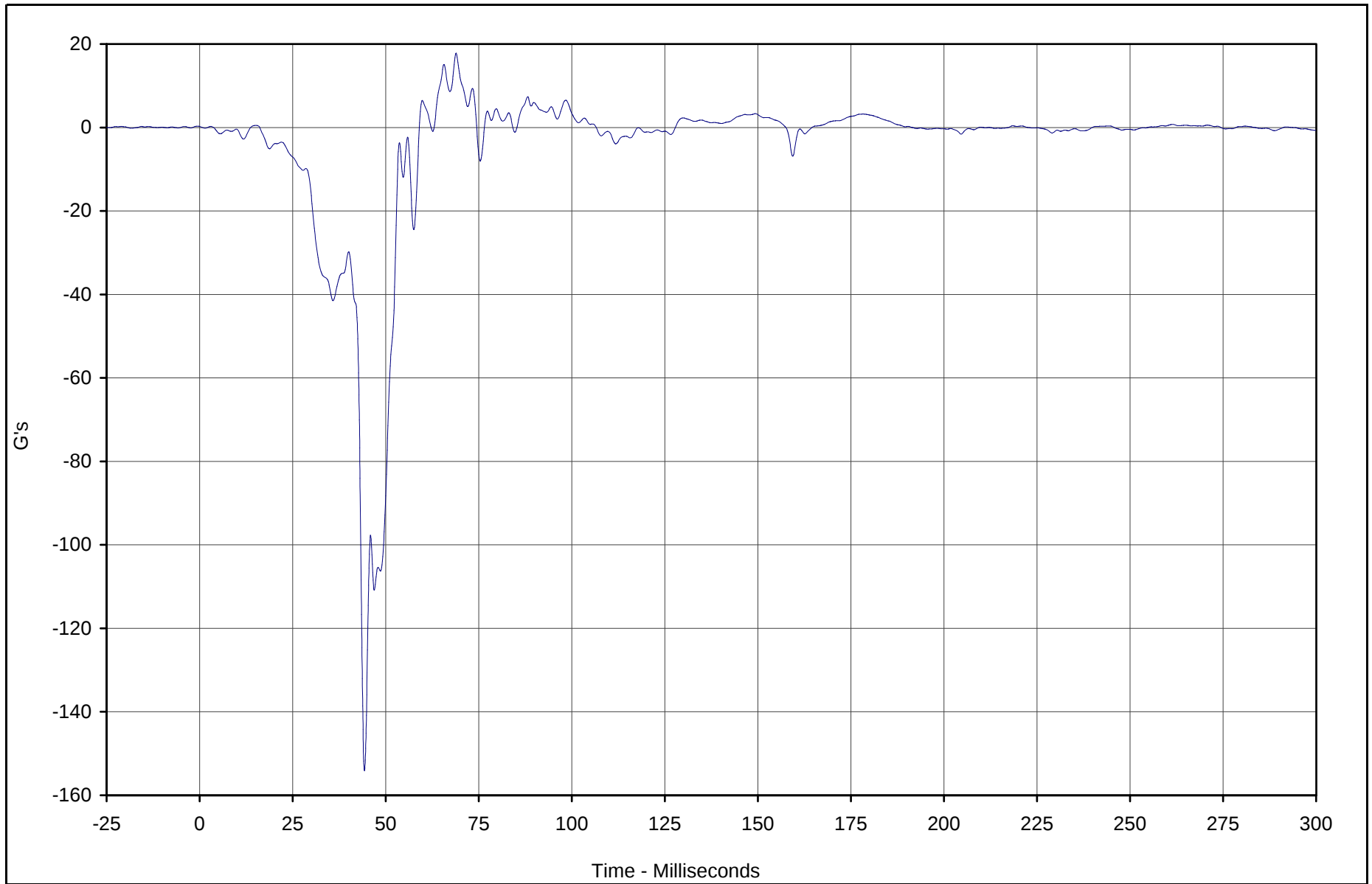


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Left Foot Aft X	079	FIL	G's	17.8	68.9	-154.1	44.3	180



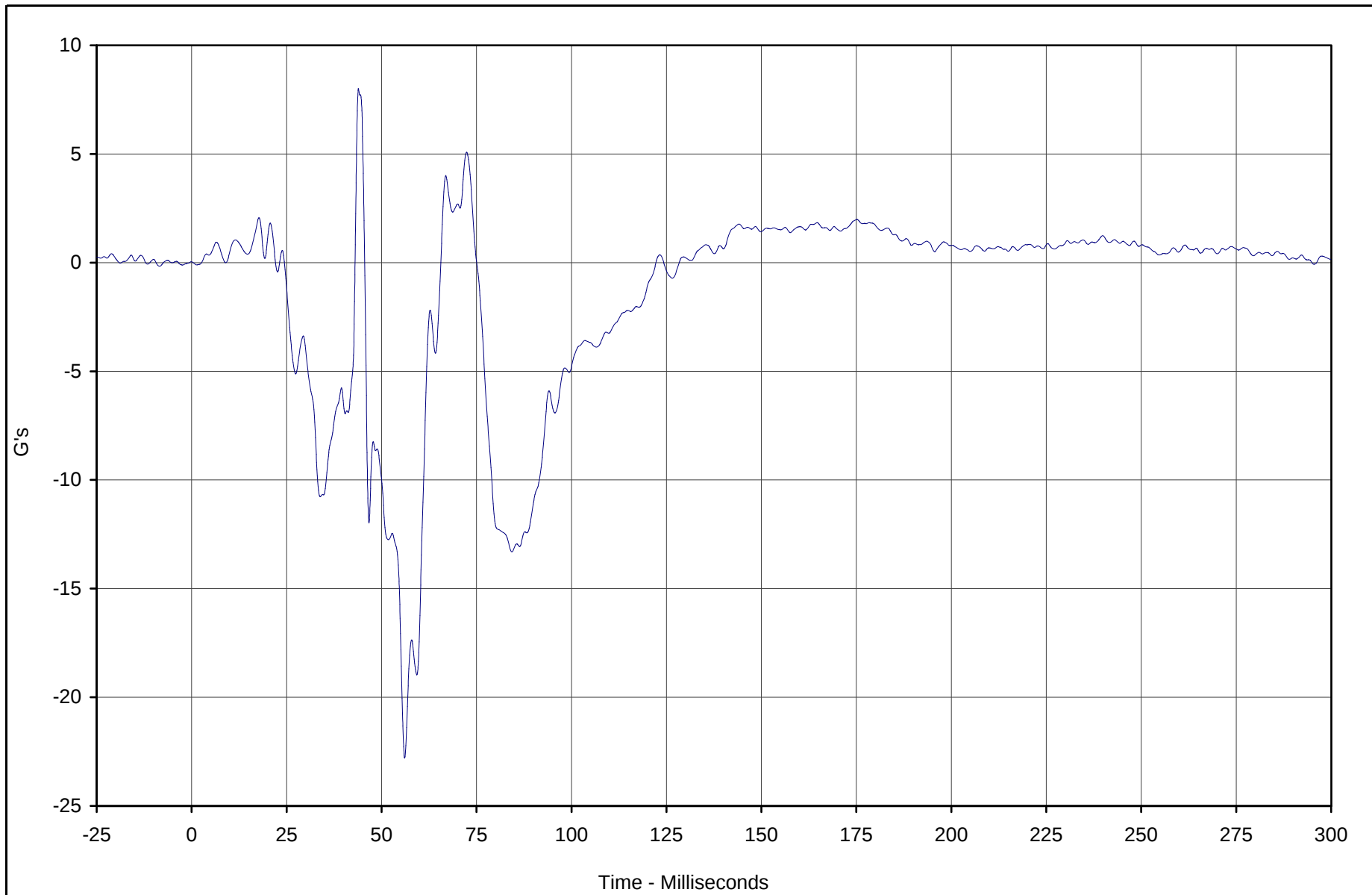
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

B-114



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Left Foot Aft Z	080	FIL	G's	8.0	43.9	-22.8	56.1	180



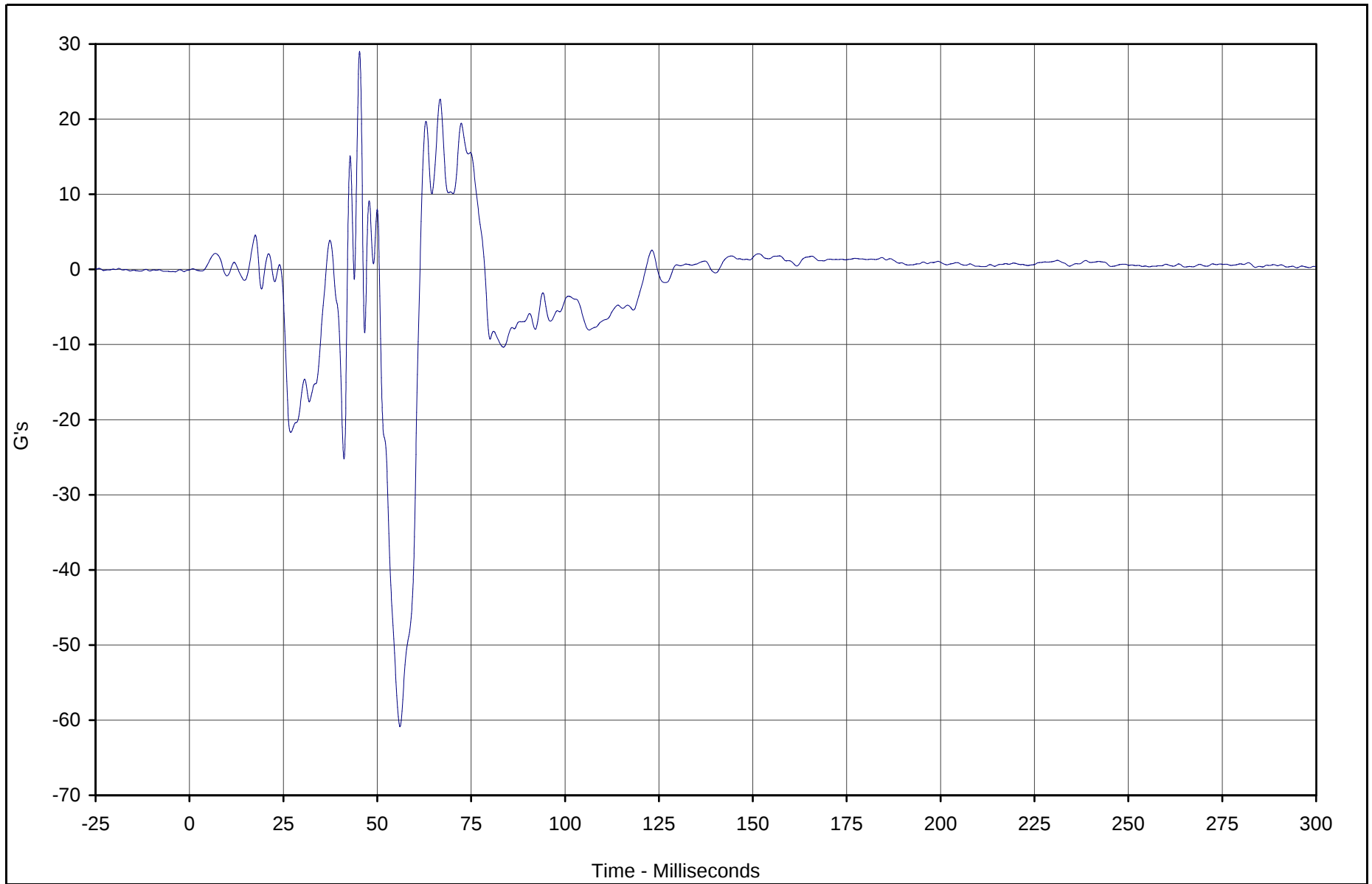
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Left Foot Fore Z	081	FIL	G's	29.0	45.3	-60.9	56.1	180

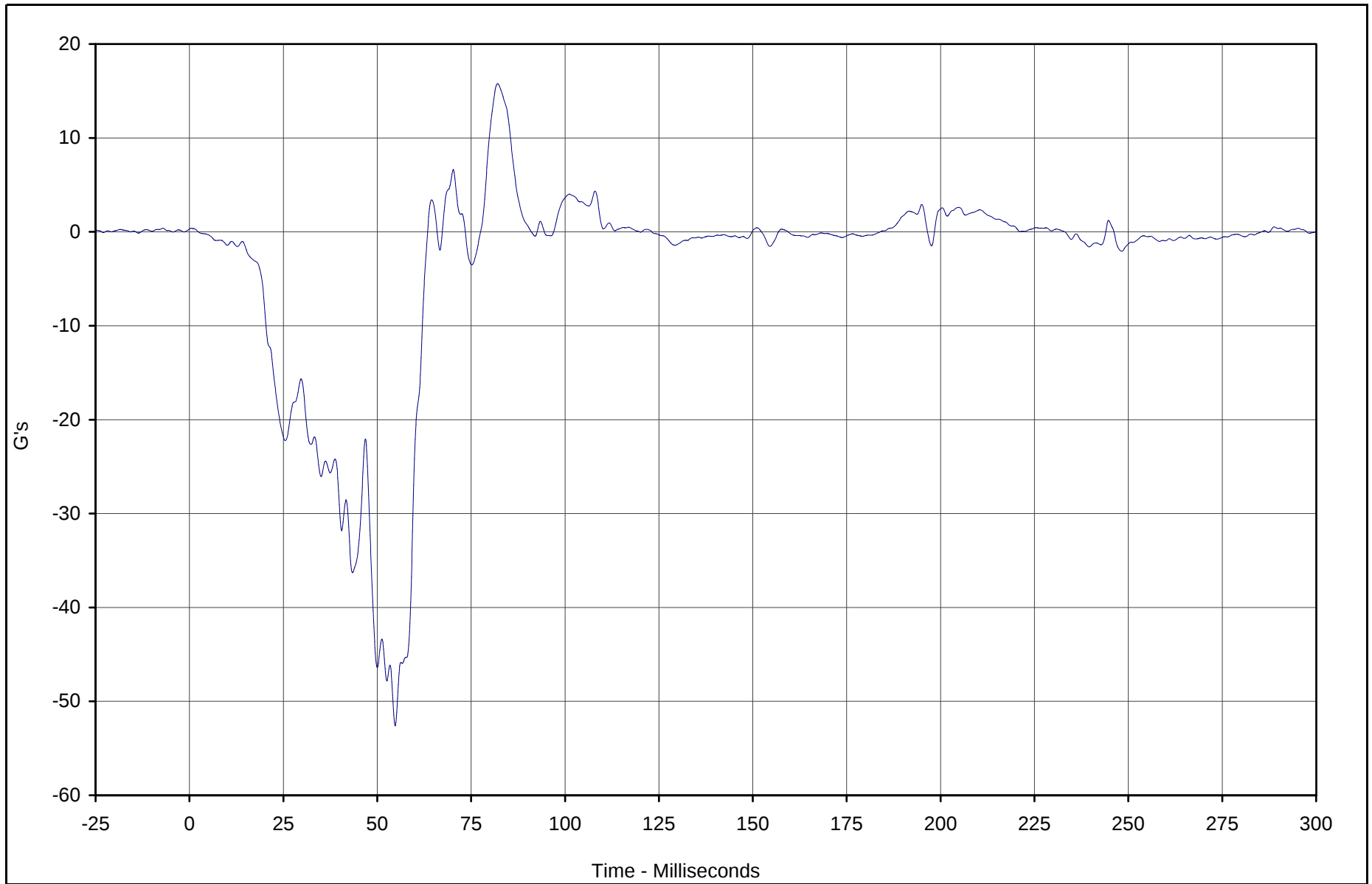


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Right Foot Aft X	082	FIL	G's	15.8	82.1	-52.6	54.8	180

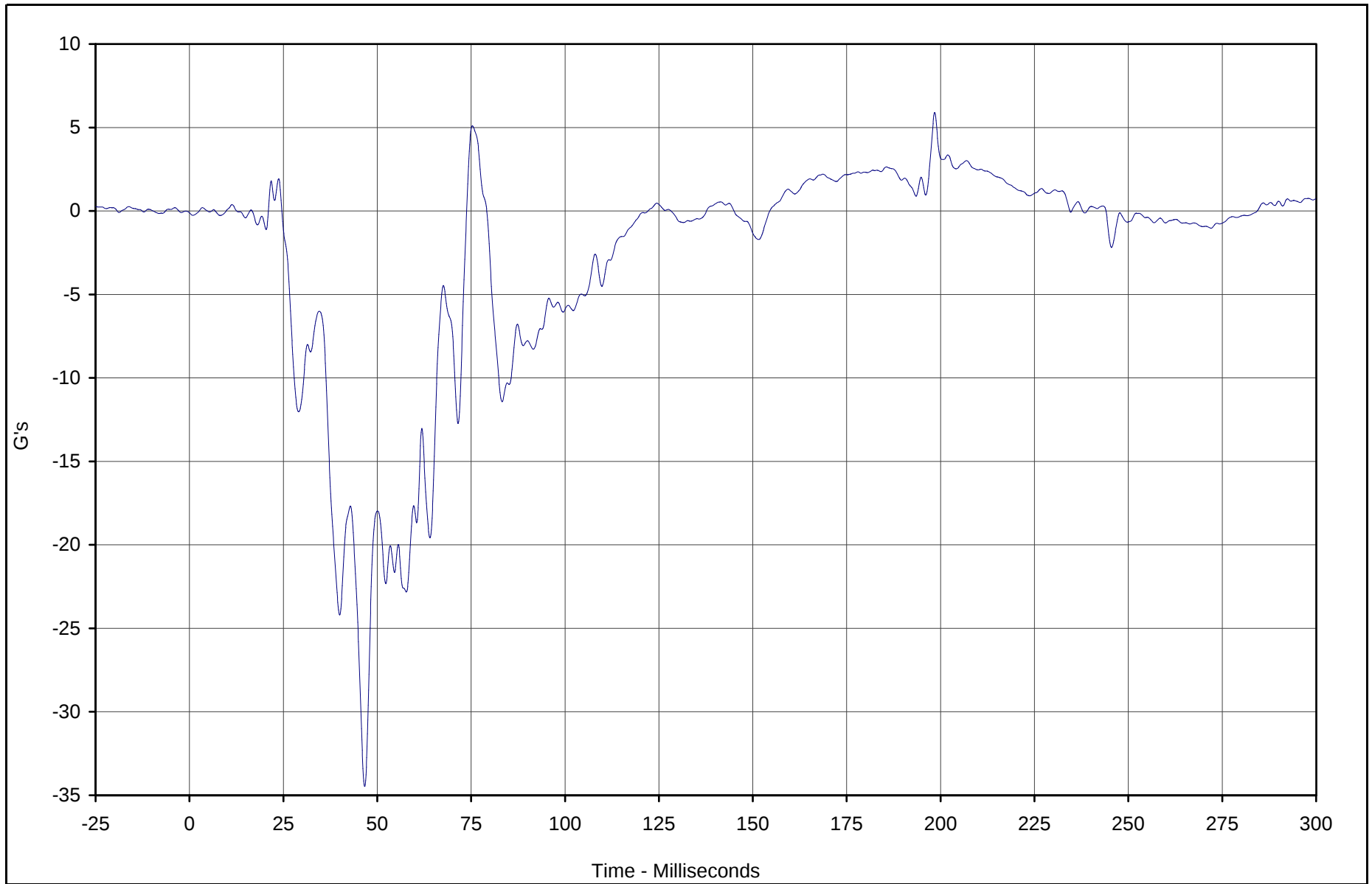


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Right Foot Aft Z	083	FIL	G's	5.9	198.4	-34.5	46.7	180

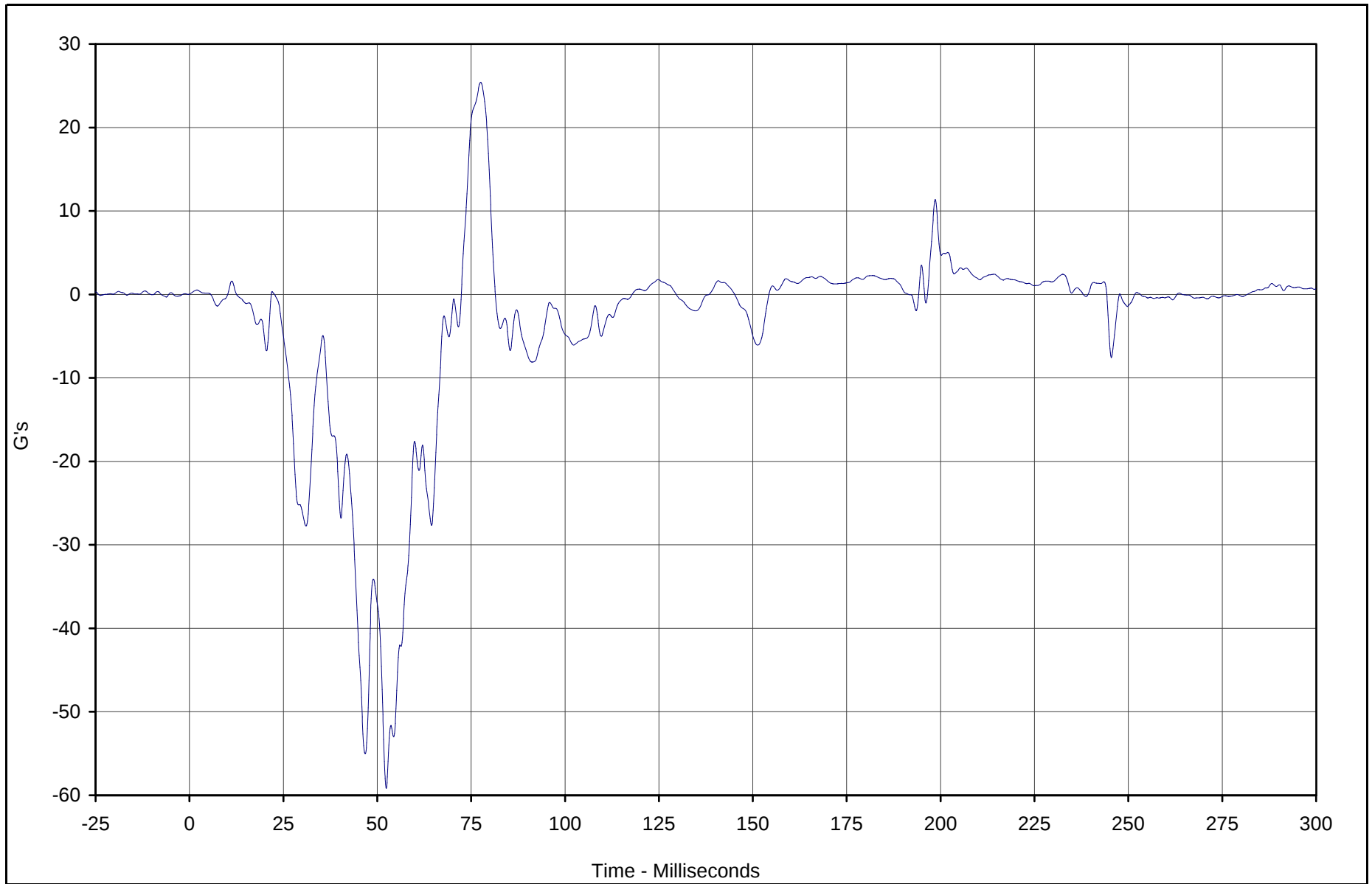


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Right Foot Fore Z	084	FIL	G's	25.4	77.5	-59.2	52.4	180

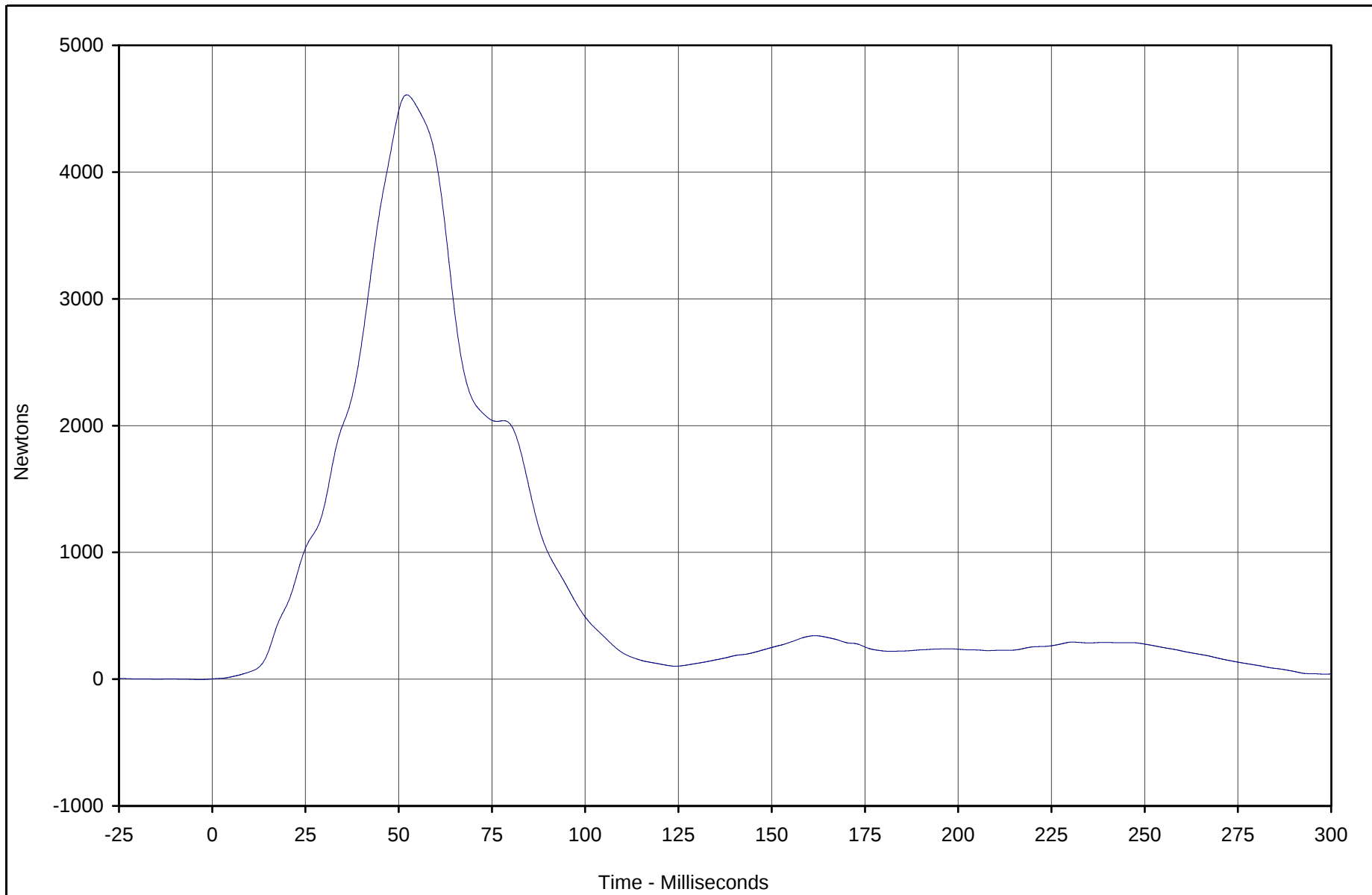


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Lap Belt Force	085	FIL	Newtons	4609.5	52.2	2.0	0.0	60



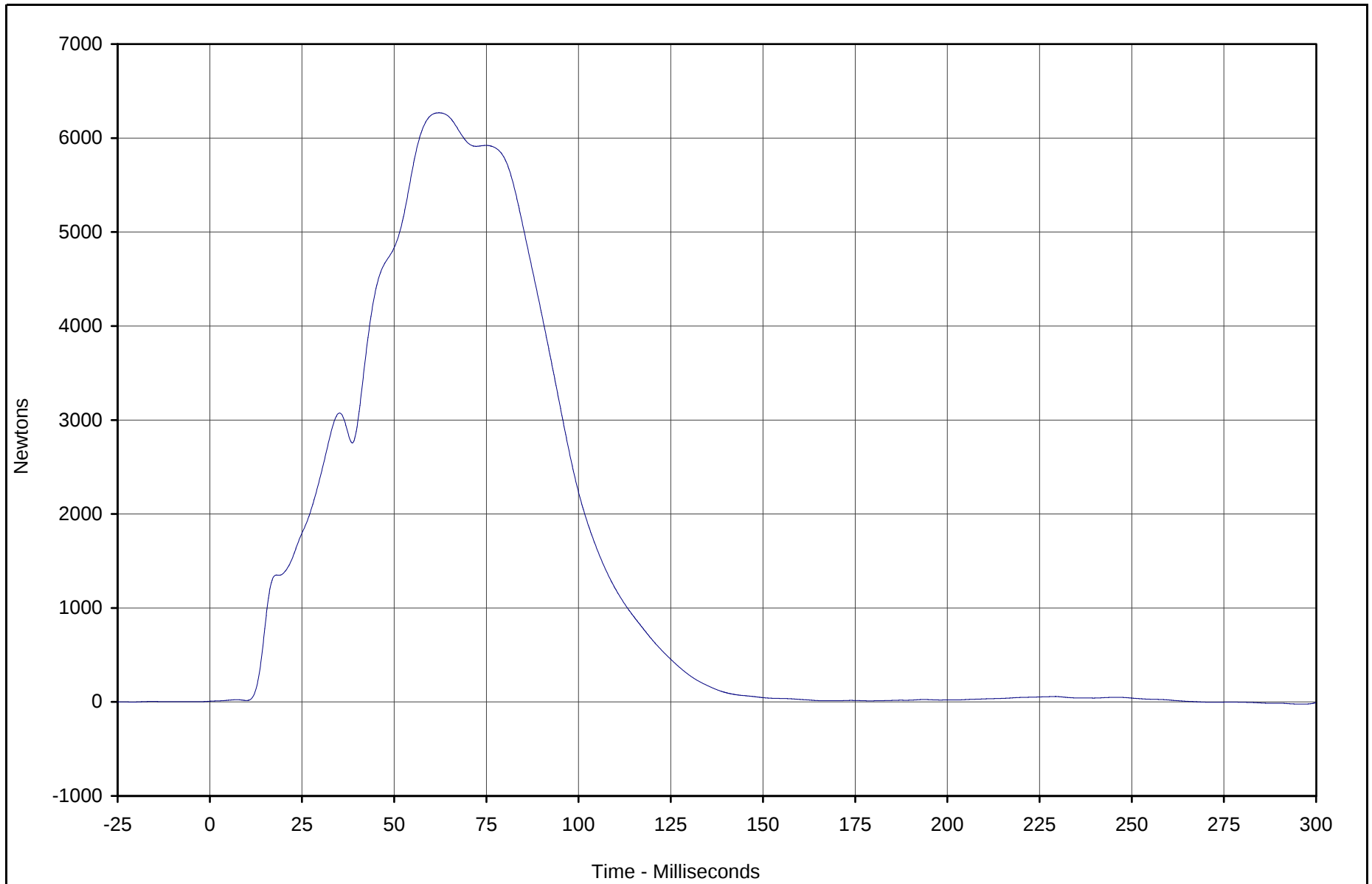
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

B-120



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Shoulder Belt Force	086	FIL	Newtons	6268.4	62.1	-23.3	296.0	60



Test Vehicle: 2003 Honda Pilot 4WD SUV

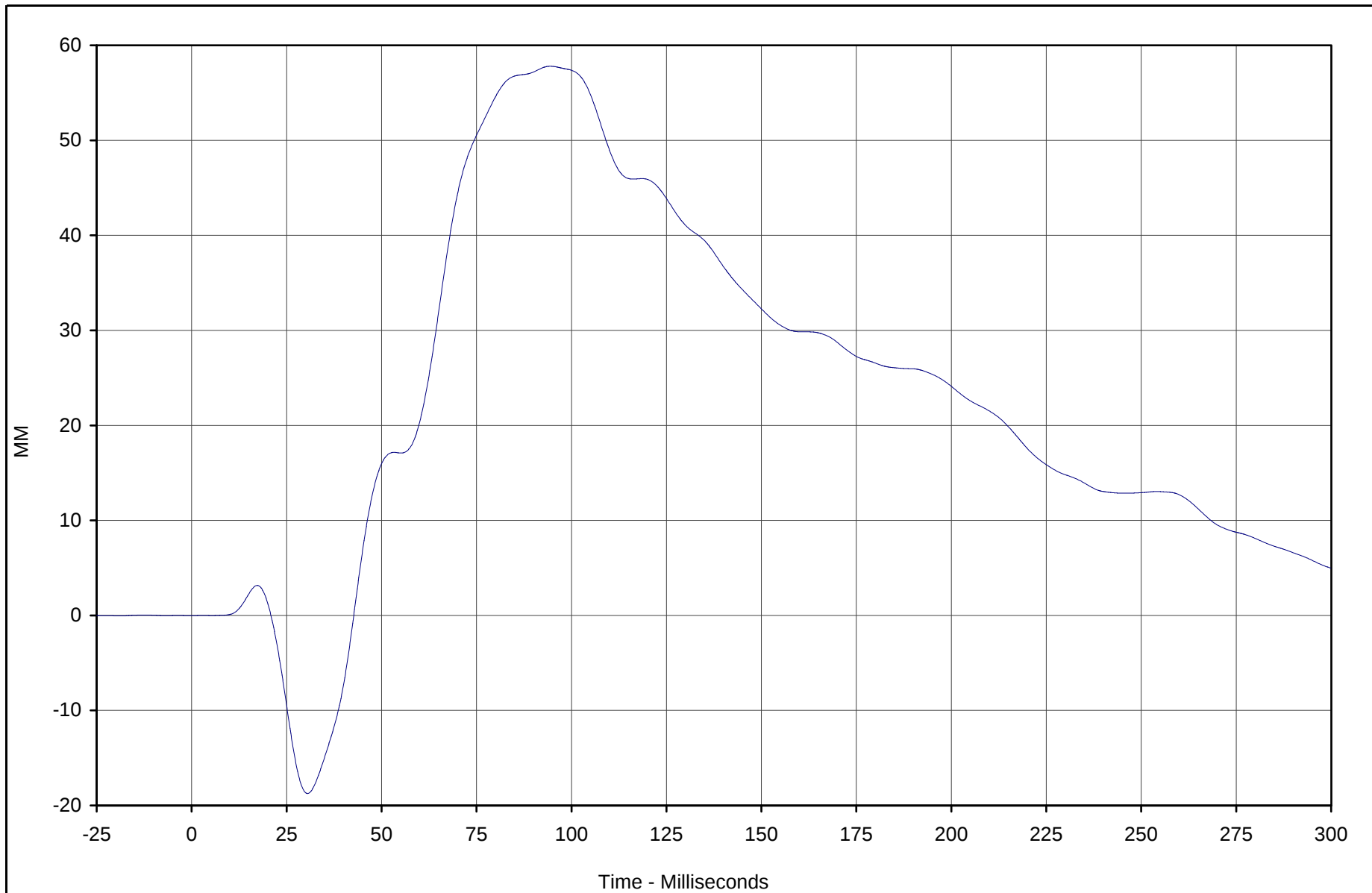
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

B-121



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Shoulder Belt Pullout	087	FIL	MM	57.8	94.4	-18.7	30.5	60



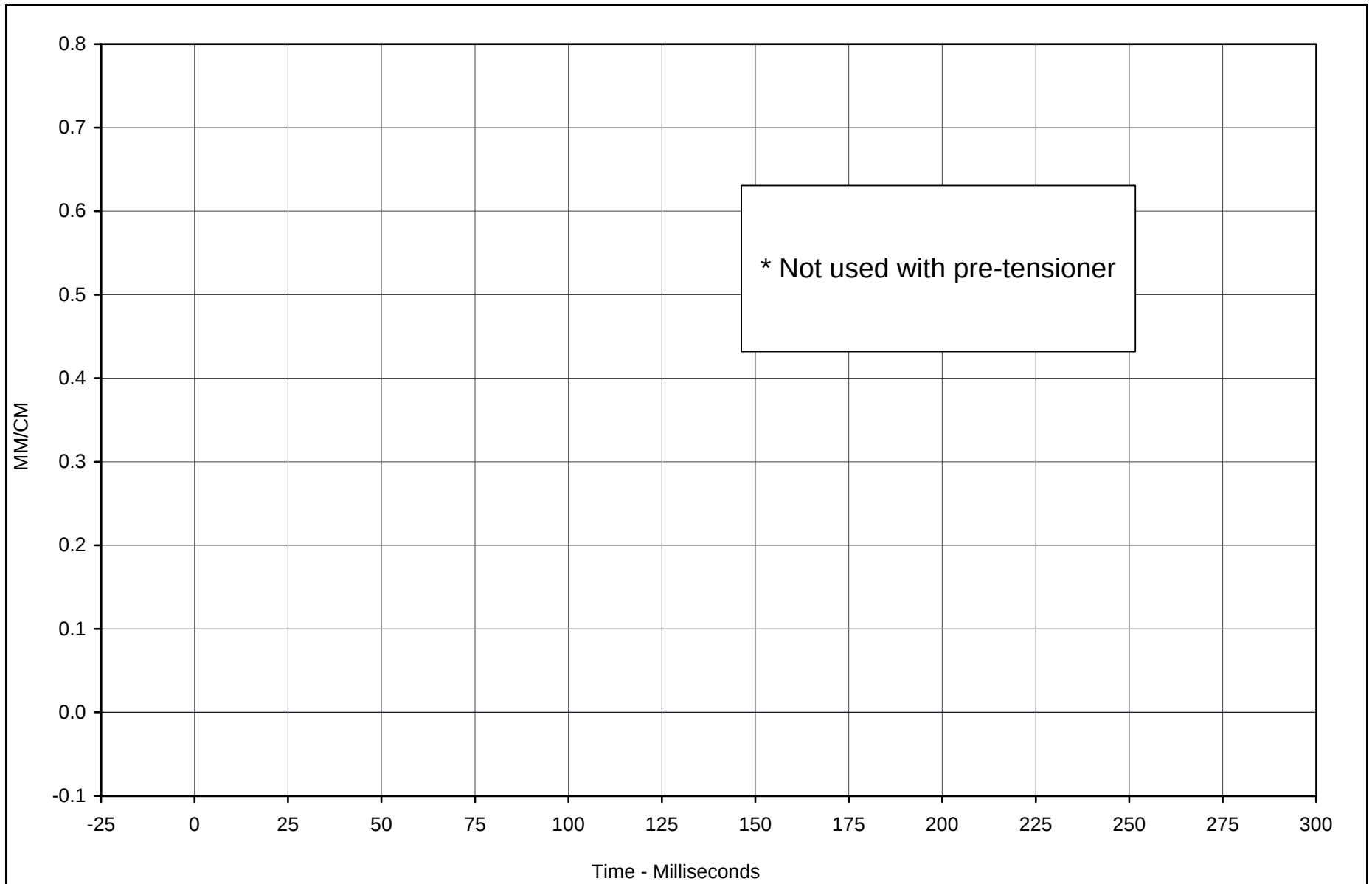
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01



* Not used with pre-tensioner

Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Shoulder Belt Elongation	088	FIL	MM/CM	0.00	0.0	0.00	0.0	60

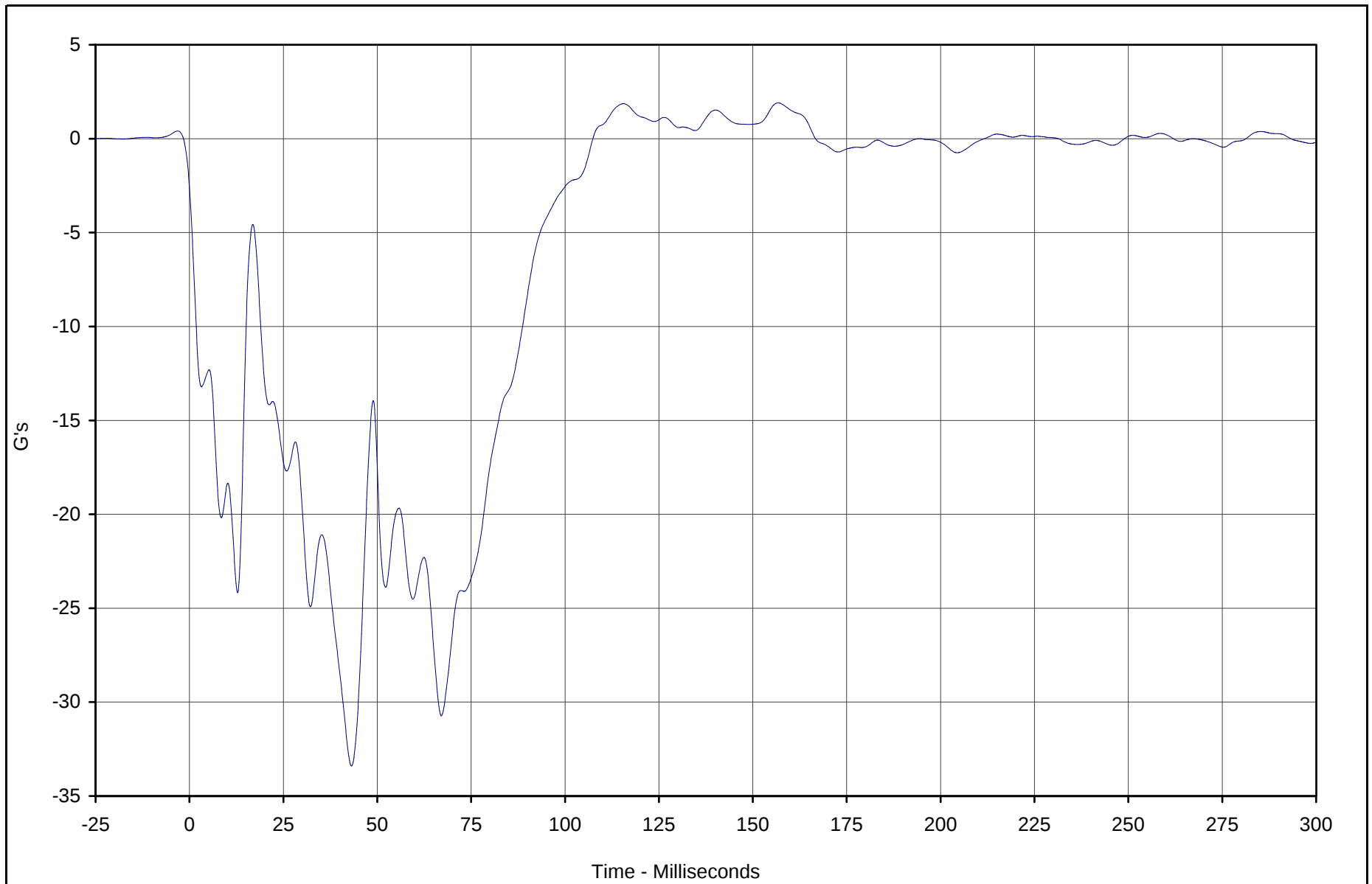


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle Left Rear X	089	FIL	G's	1.9	156.8	-33.4	43.1	60

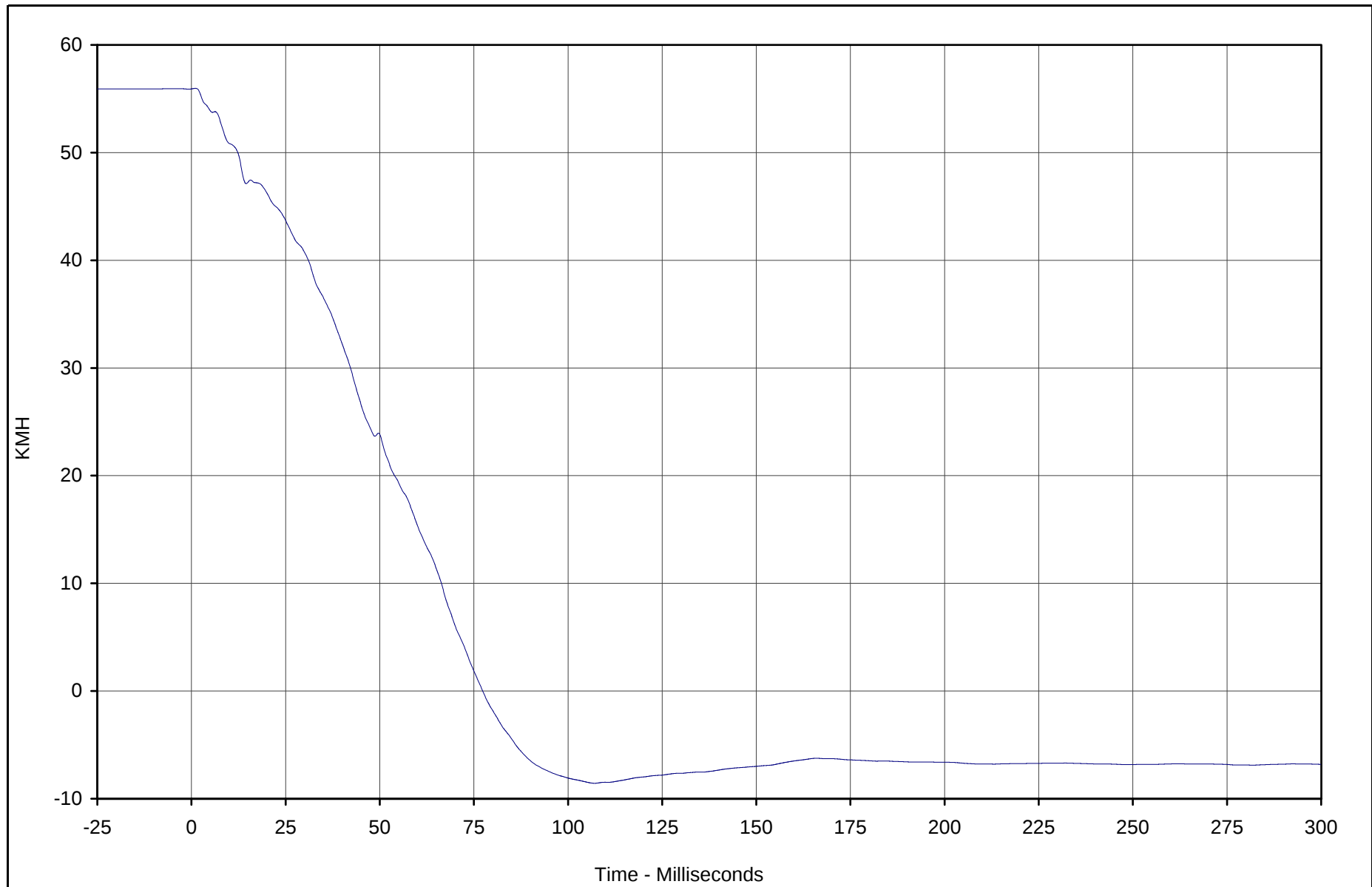


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle Left Rear X Velocity	089	IN1	KMH	56.0	1.1	-8.6	107.1	180



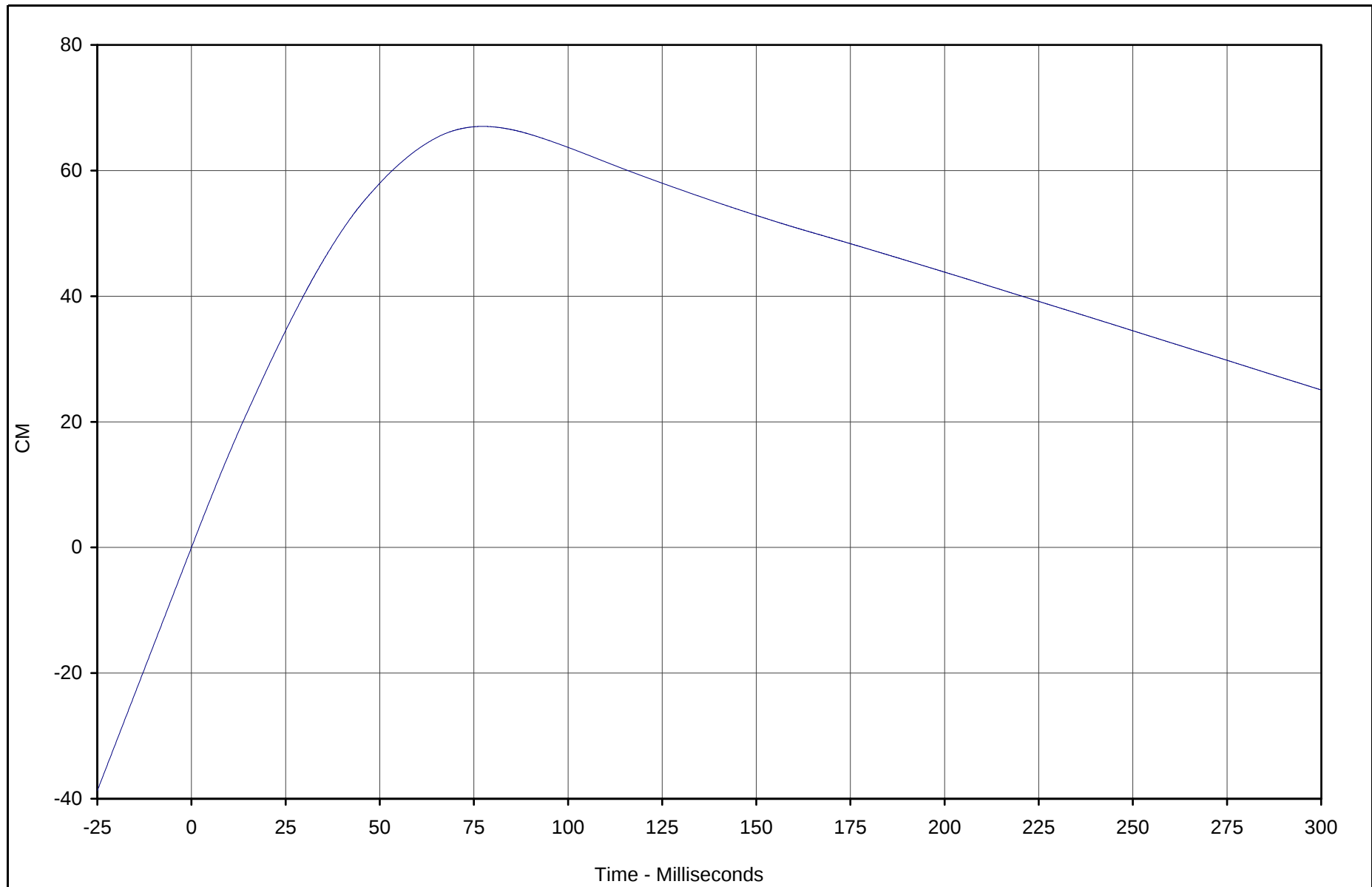
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

B-125



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle Left Rear X Displ.	089	IN2	CM	67.0	77.3	0.0	0.0	180



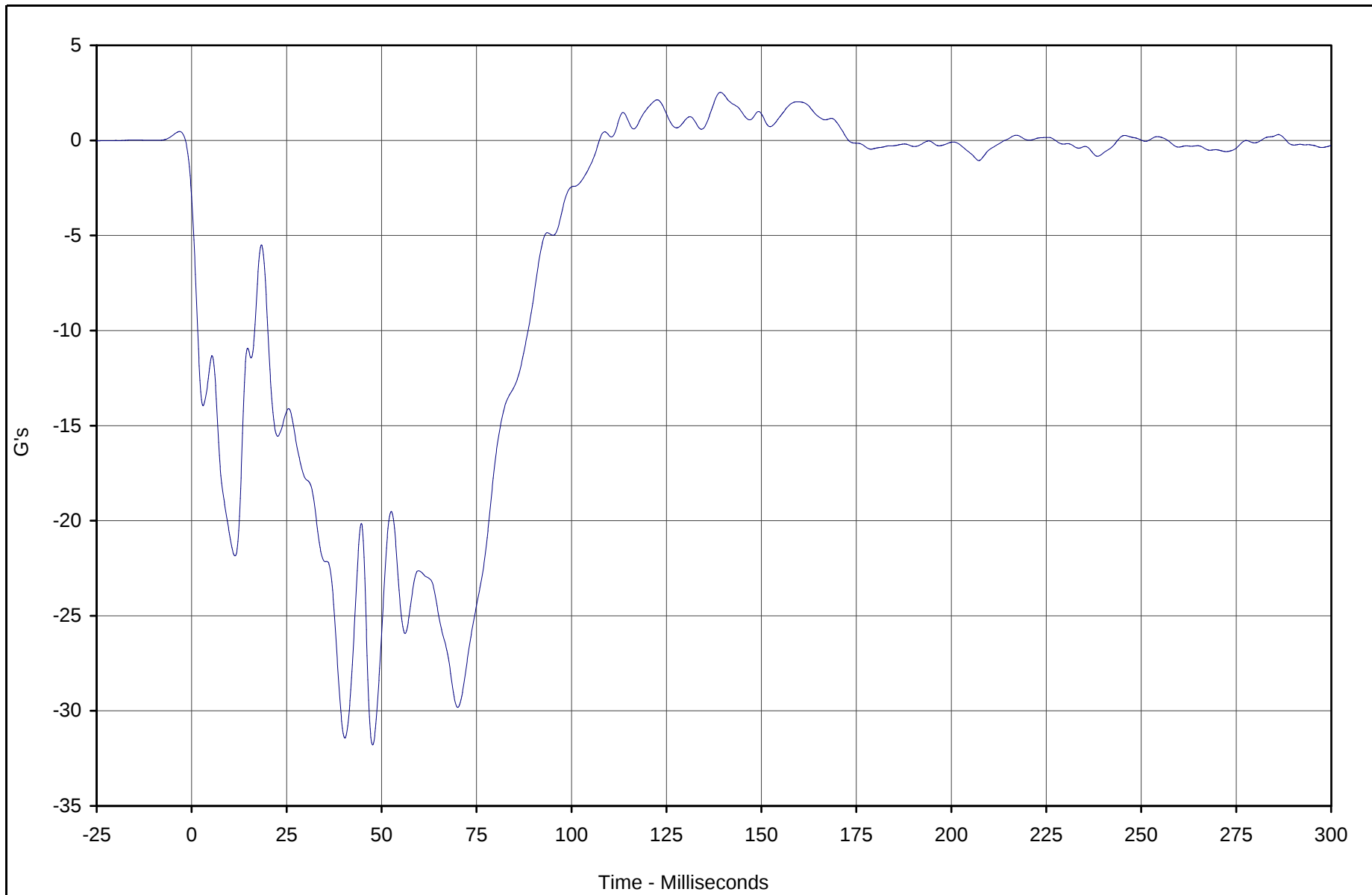
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle Right Rear X	090	FIL	G's	2.5	139.2	-31.8	47.7	60

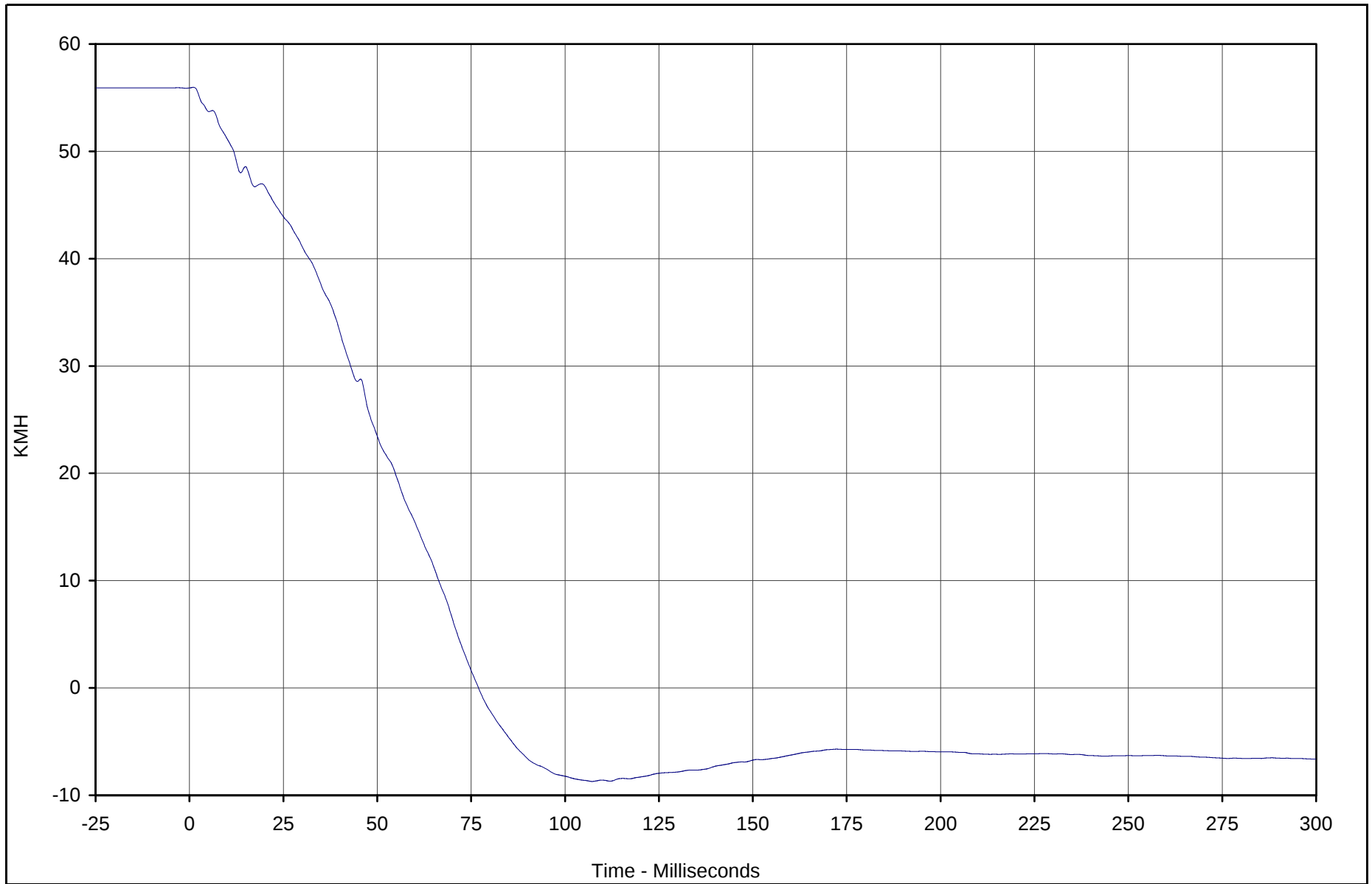


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle Right Rear X Velocity	090	IN1	KMH	56.0	1.1	-8.7	107.2	180

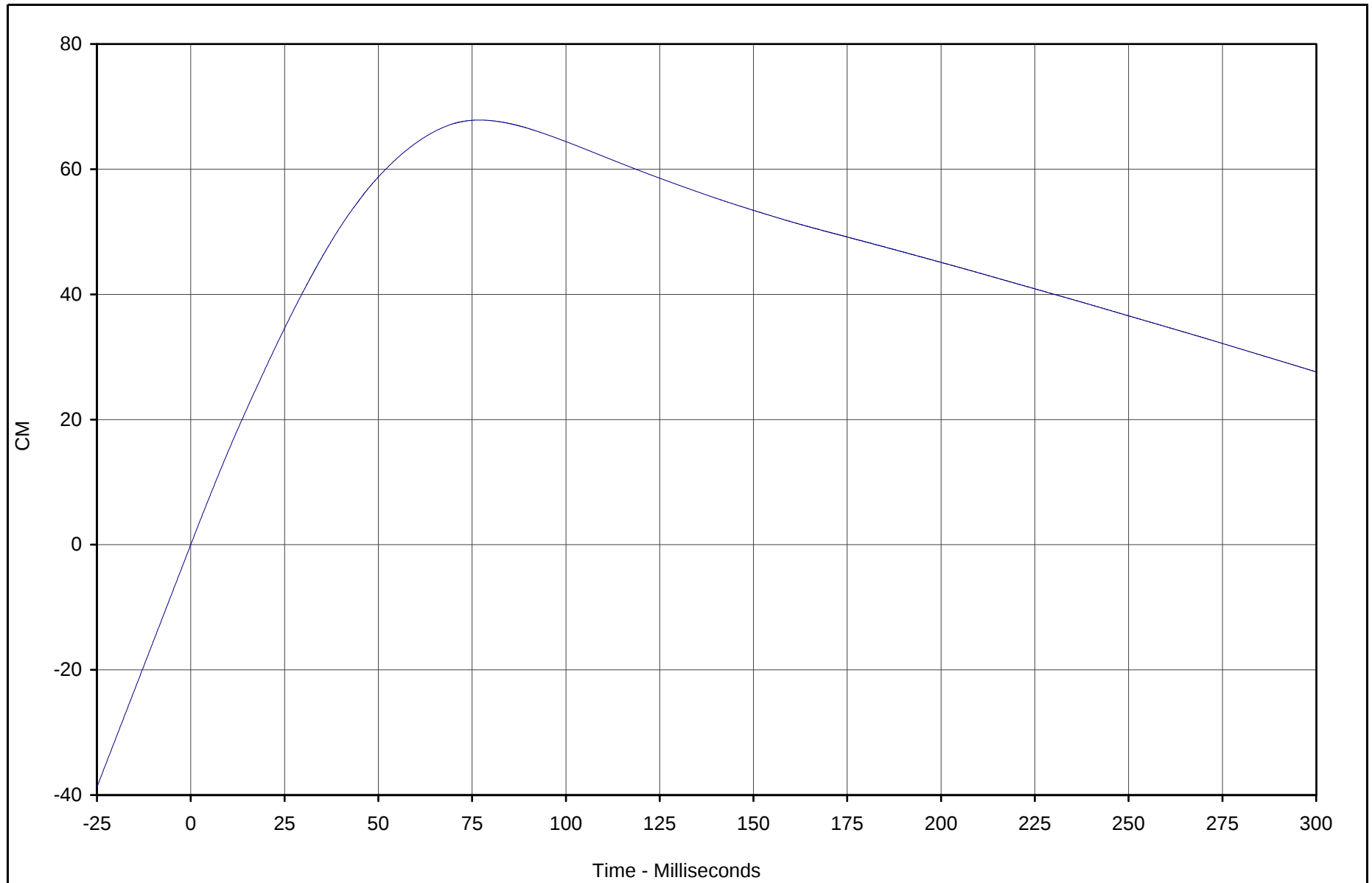


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle Right Rear X Displ.	090	IN2	CM	67.9	77.0	0.0	0.0	180

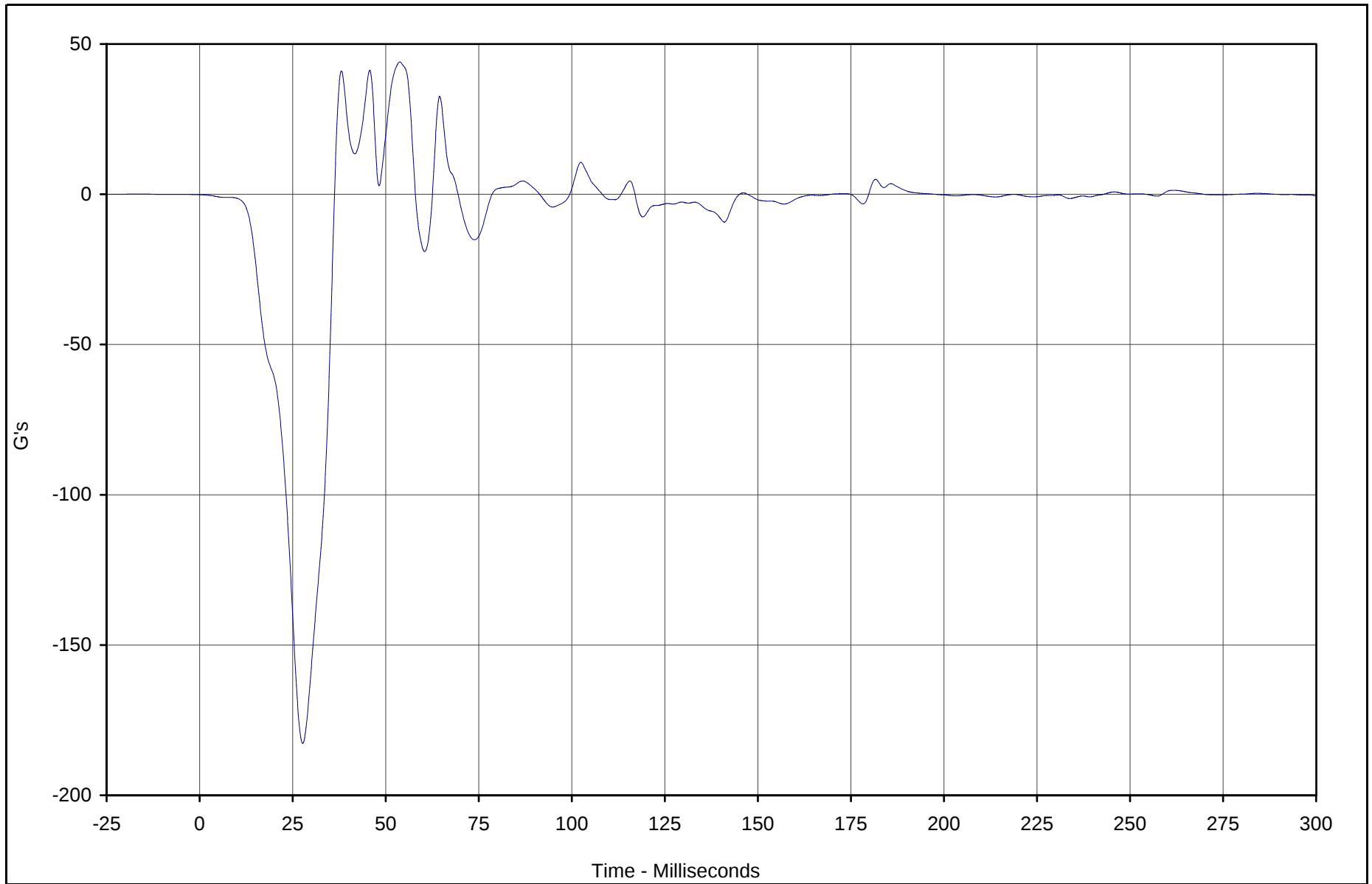


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle Engine Top	091	FIL	G's	44.1	53.8	-182.7	27.7	60



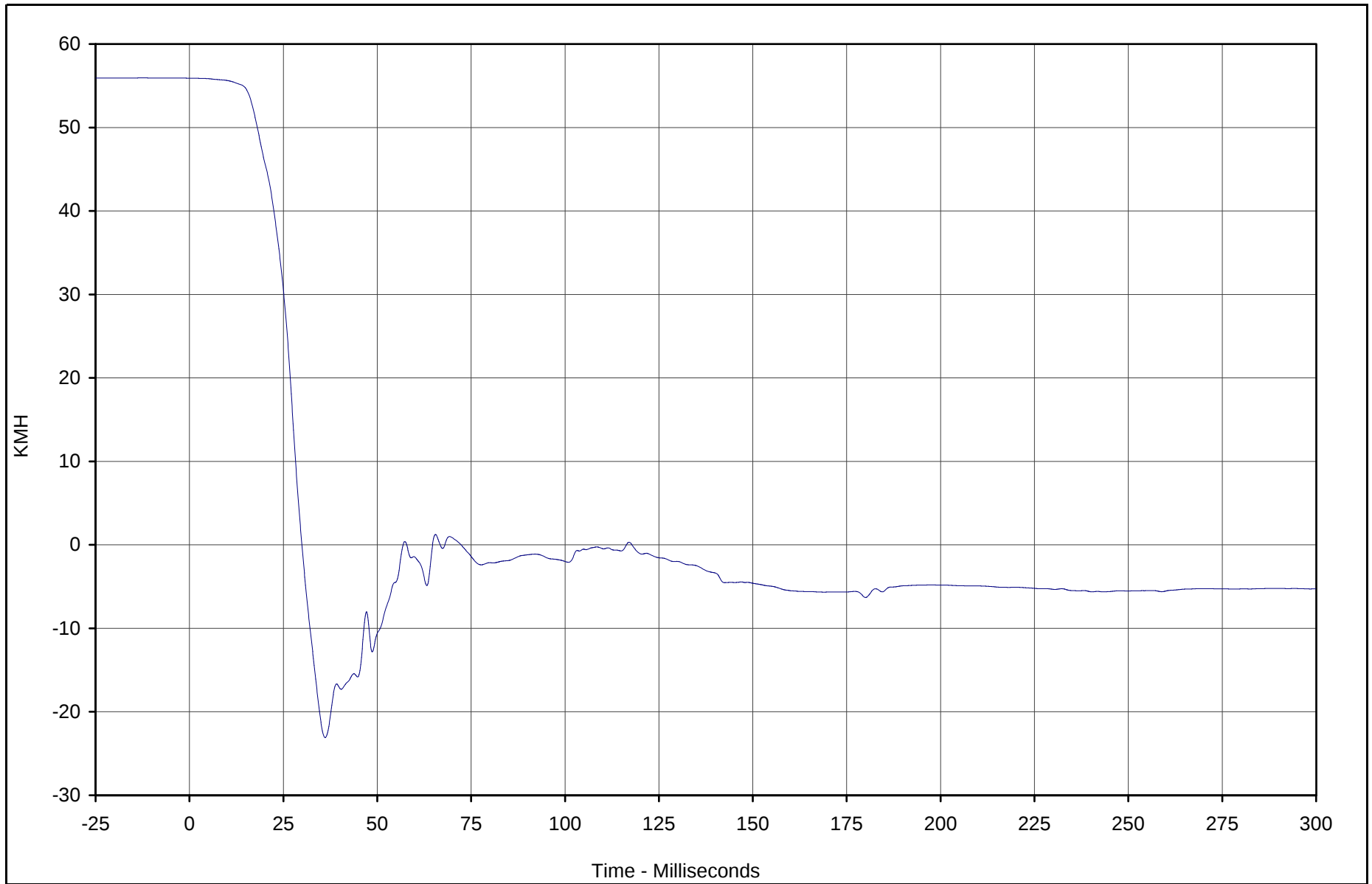
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

B-130



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle Engine Top Velocity	091	IN1	KMH	55.9	0.0	-23.1	36.1	180



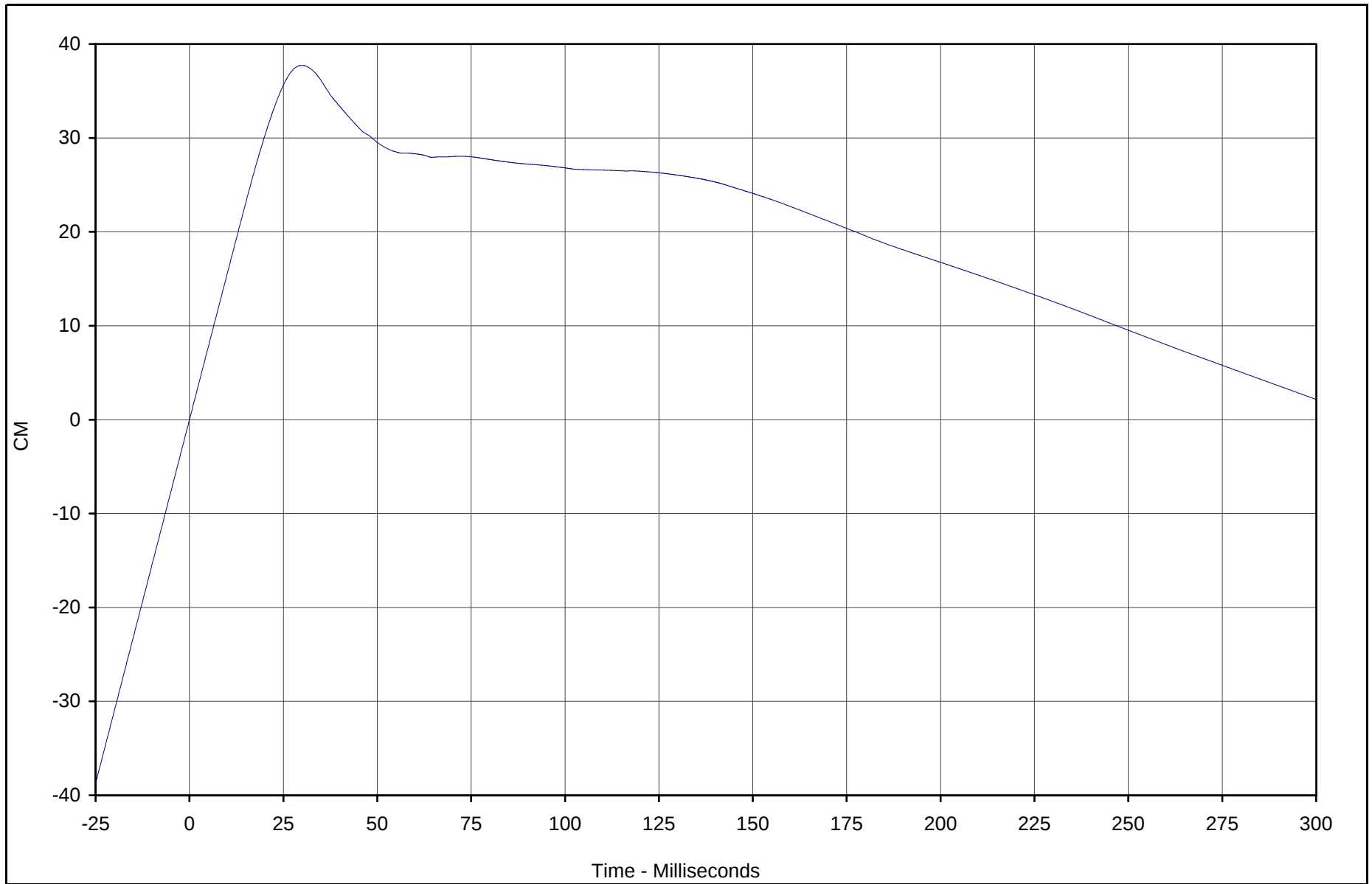
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle Engine Top Displacement	091	IN2	CM	37.7	29.9	0.0	0.0	180



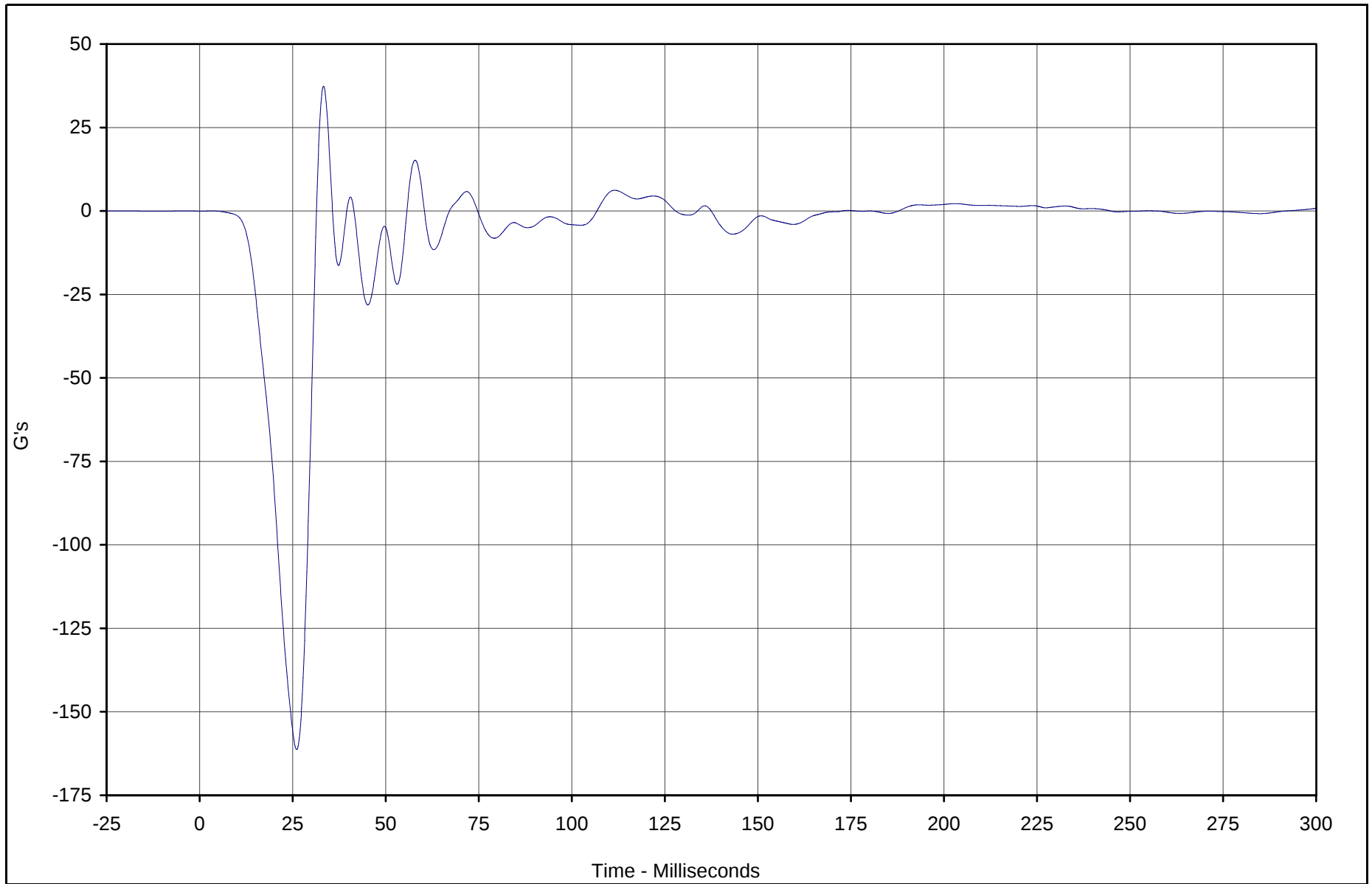
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

B-132



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle Engine Bottom	092	FIL	G's	37.3	33.3	-161.3	26.1	60



Test Vehicle: 2003 Honda Pilot 4WD SUV

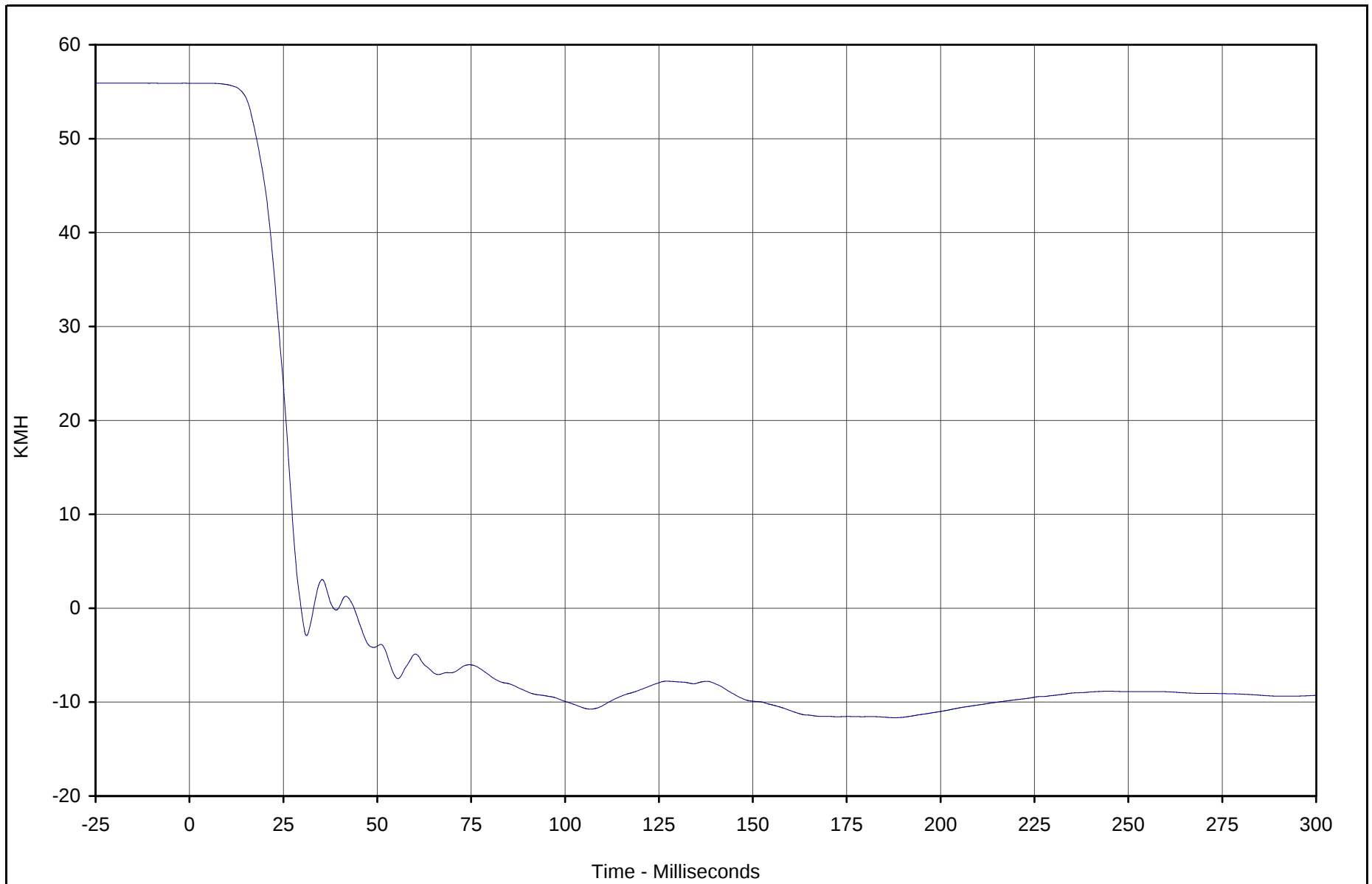
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

B-133



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle Engine Bottom Velocity	092	IN1	KMH	55.9	0.0	-11.7	187.7	180



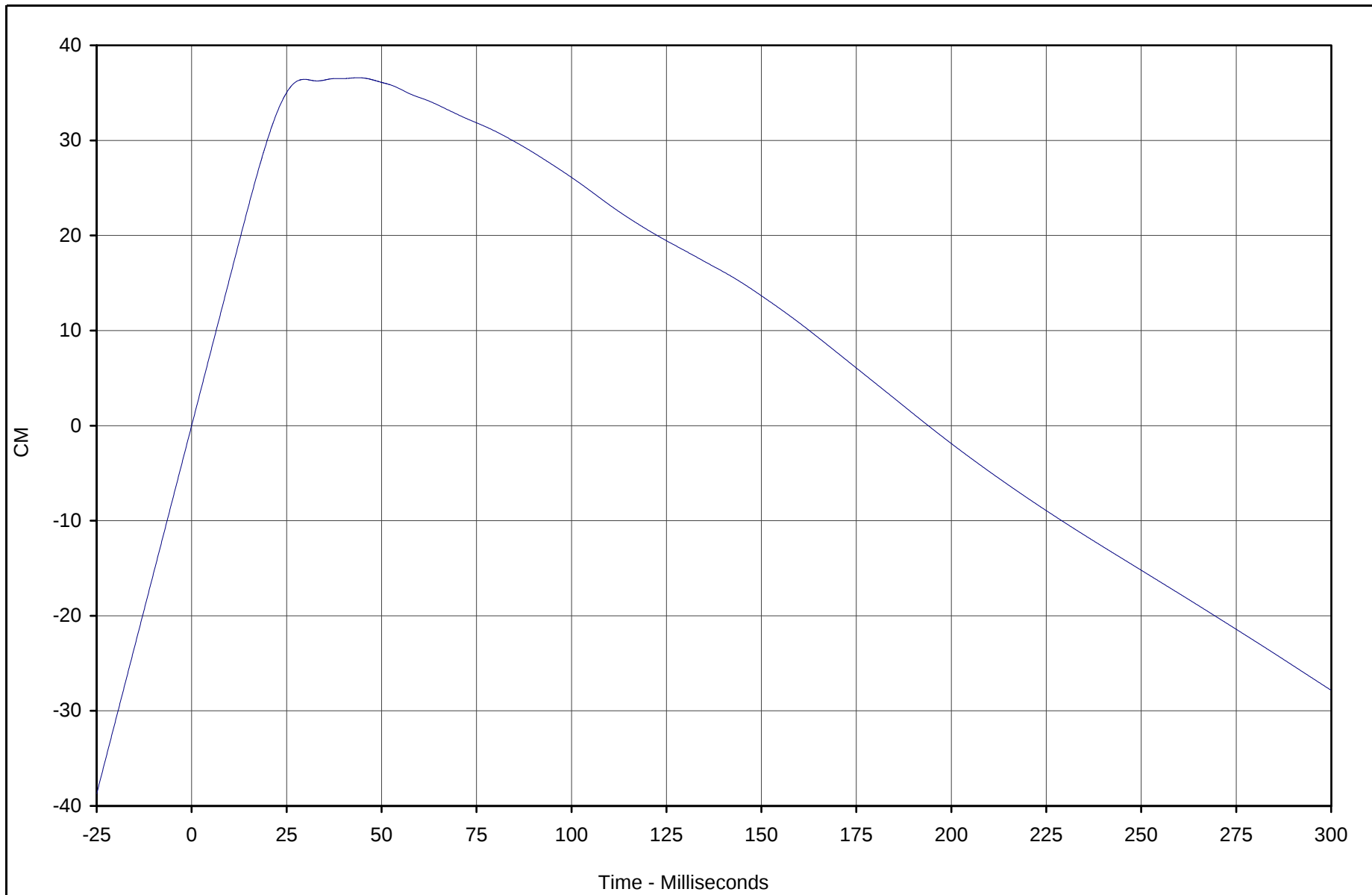
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle Engine Bottom Displacement	092	IN2	CM	36.6	43.8	-27.8	299.9	180



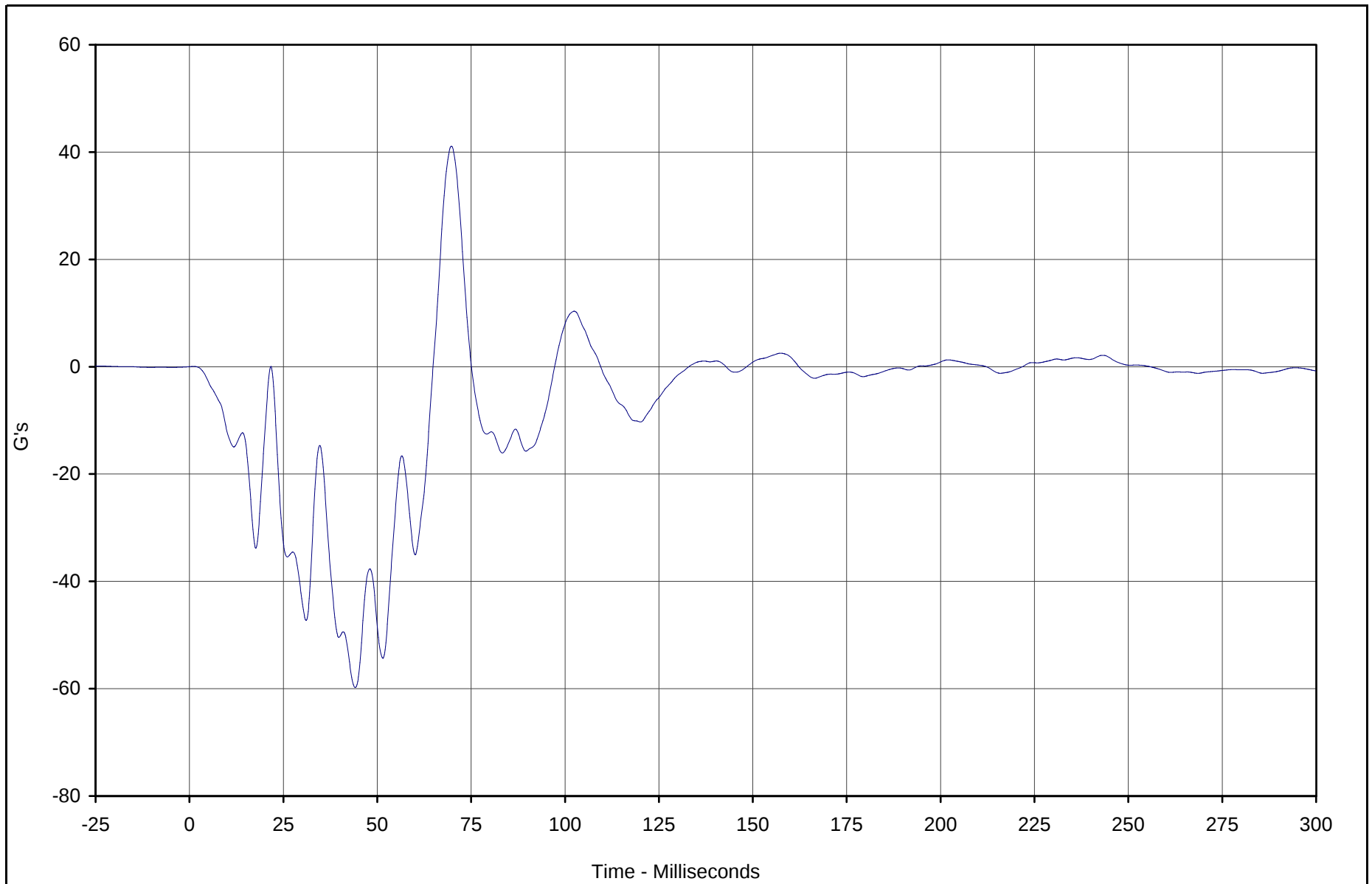
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

B-135



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle Left Brake Caliper	093	FIL	G's	41.1	69.7	-59.8	44.1	60



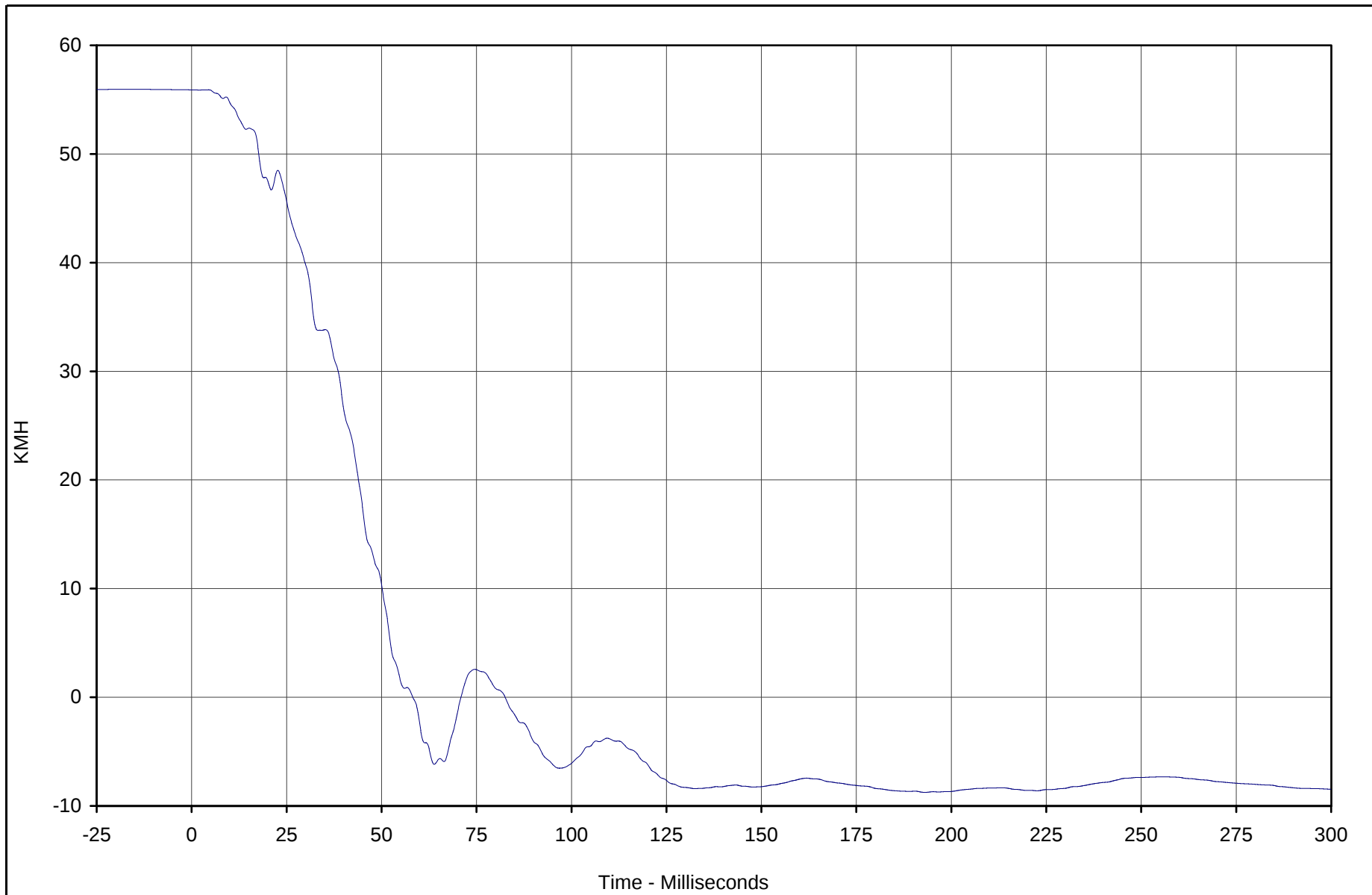
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle Left Brake Caliper Velocity	093	IN1	KMH	55.9	4.5	-8.8	193.1	180

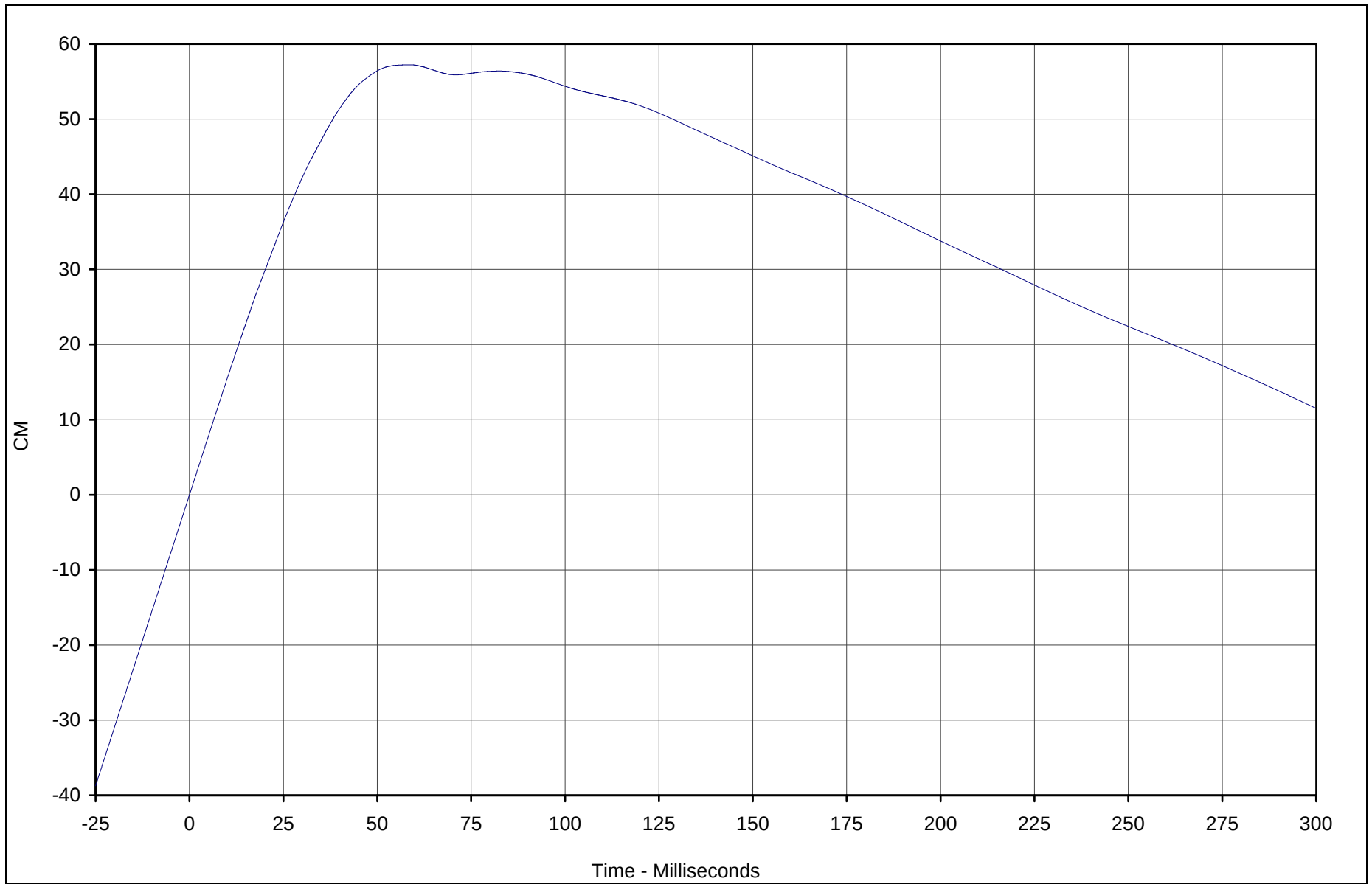


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle Left Brake Caliper Displ.	093	IN2	CM	57.2	58.2	0.0	0.0	180

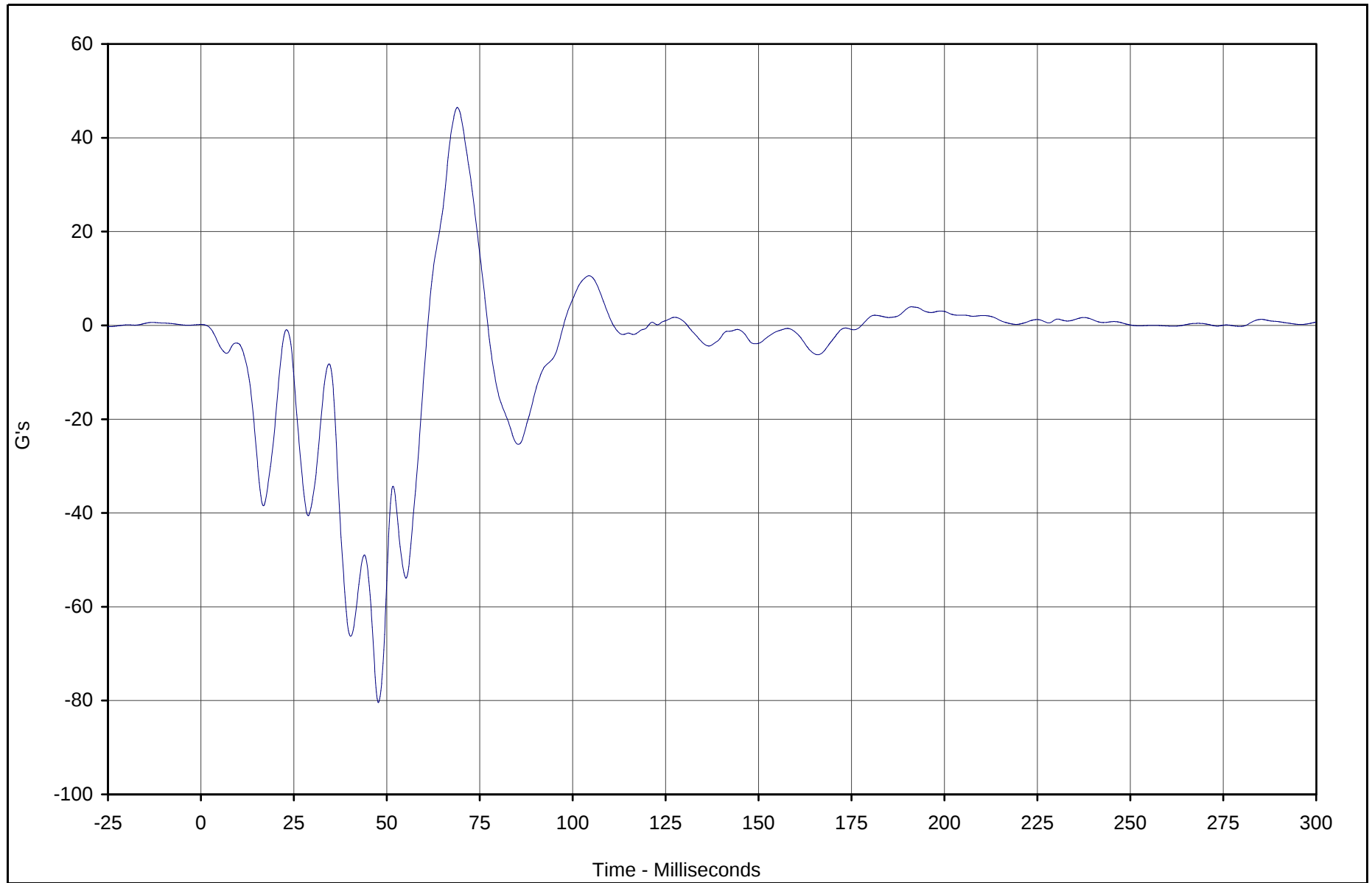


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle Right Brake Caliper	094	FIL	G's	46.5	69.0	-80.4	47.7	60



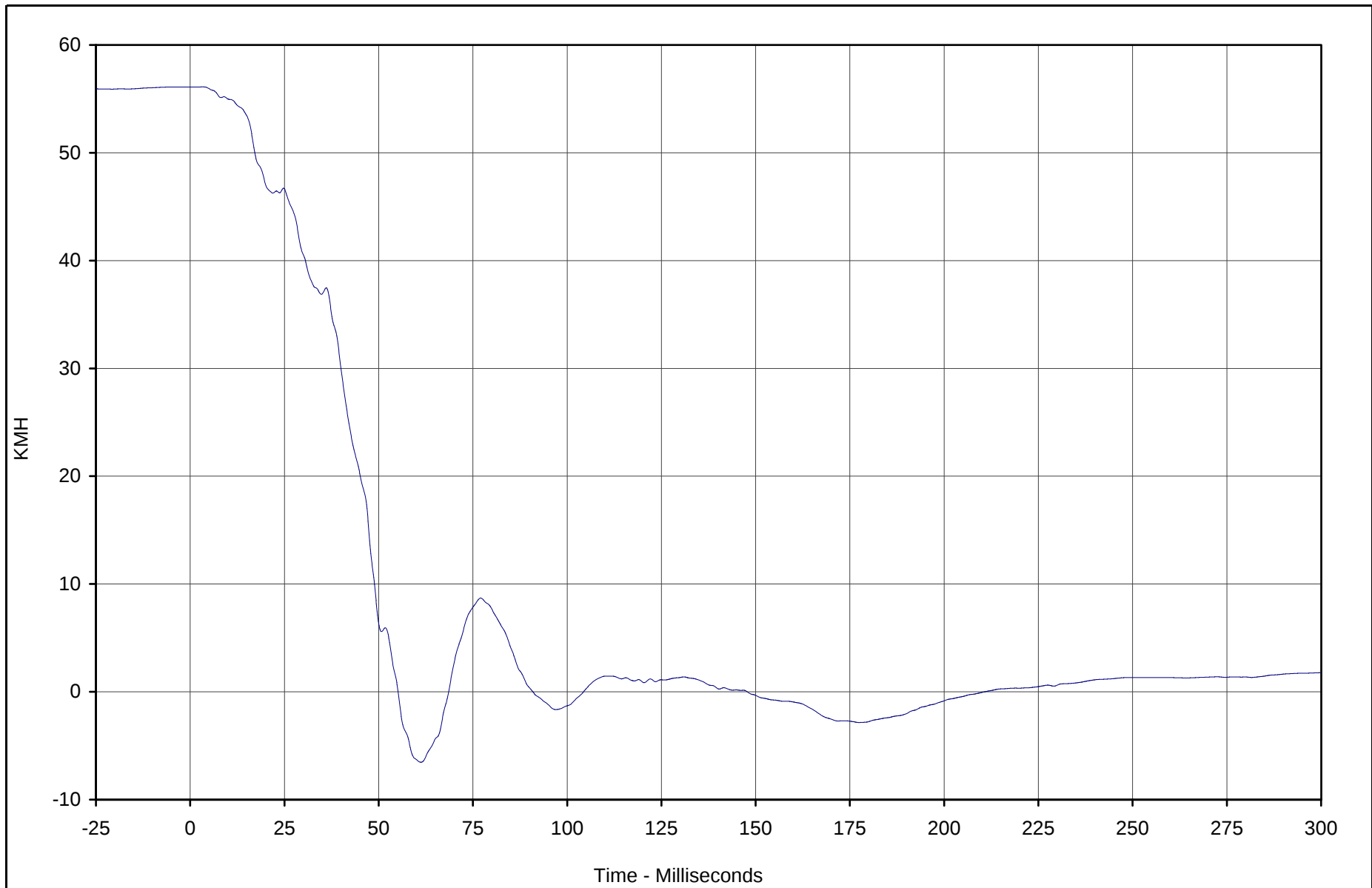
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

B-139



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle Right Brake Caliper Velocity	094	IN1	KMH	56.1	3.3	-6.5	61.2	180



Test Vehicle: 2003 Honda Pilot 4WD SUV

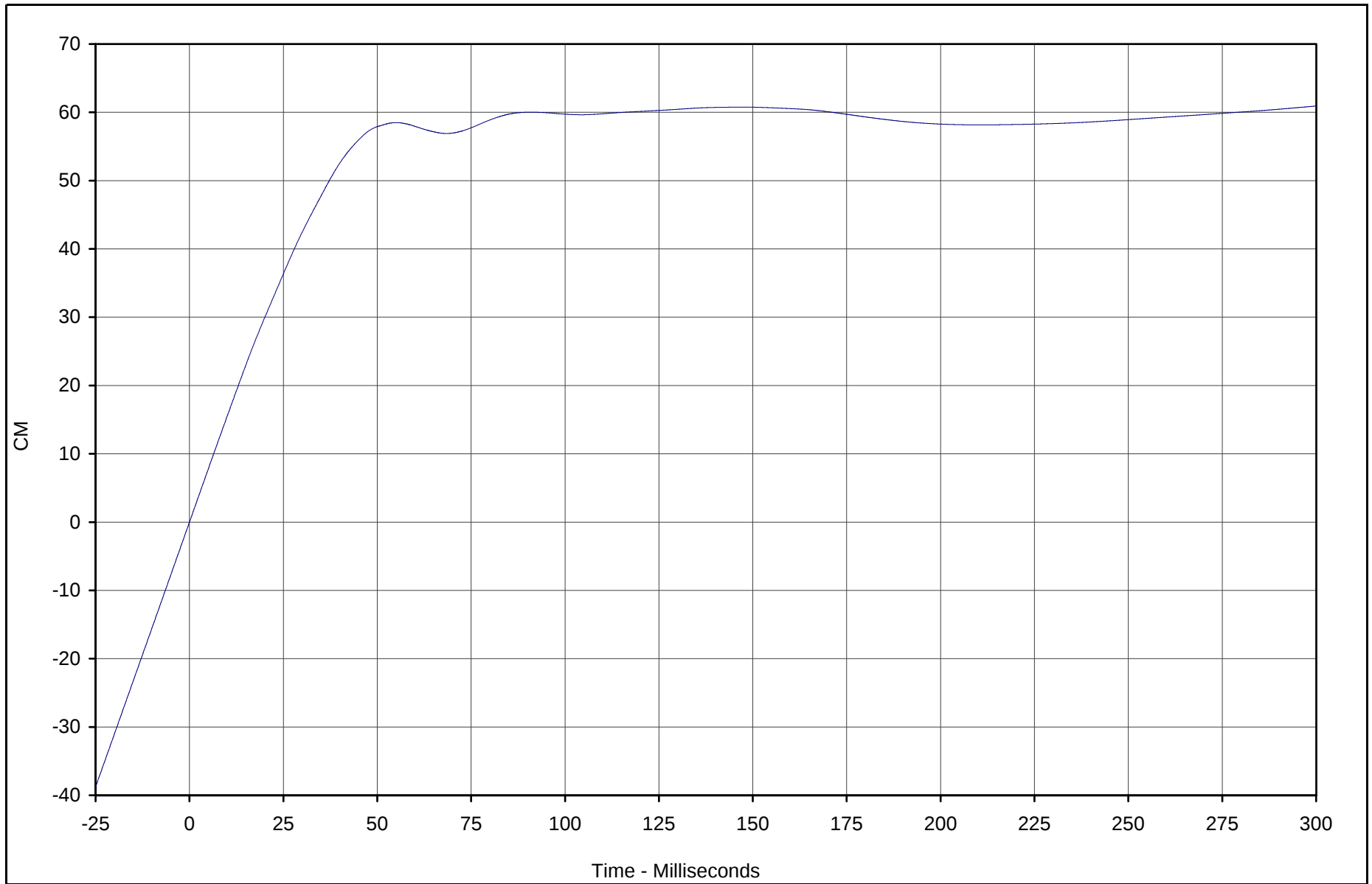
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

B-140



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle Right Brake Caliper Displ.	094	IN2	CM	60.9	299.9	0.0	0.0	180



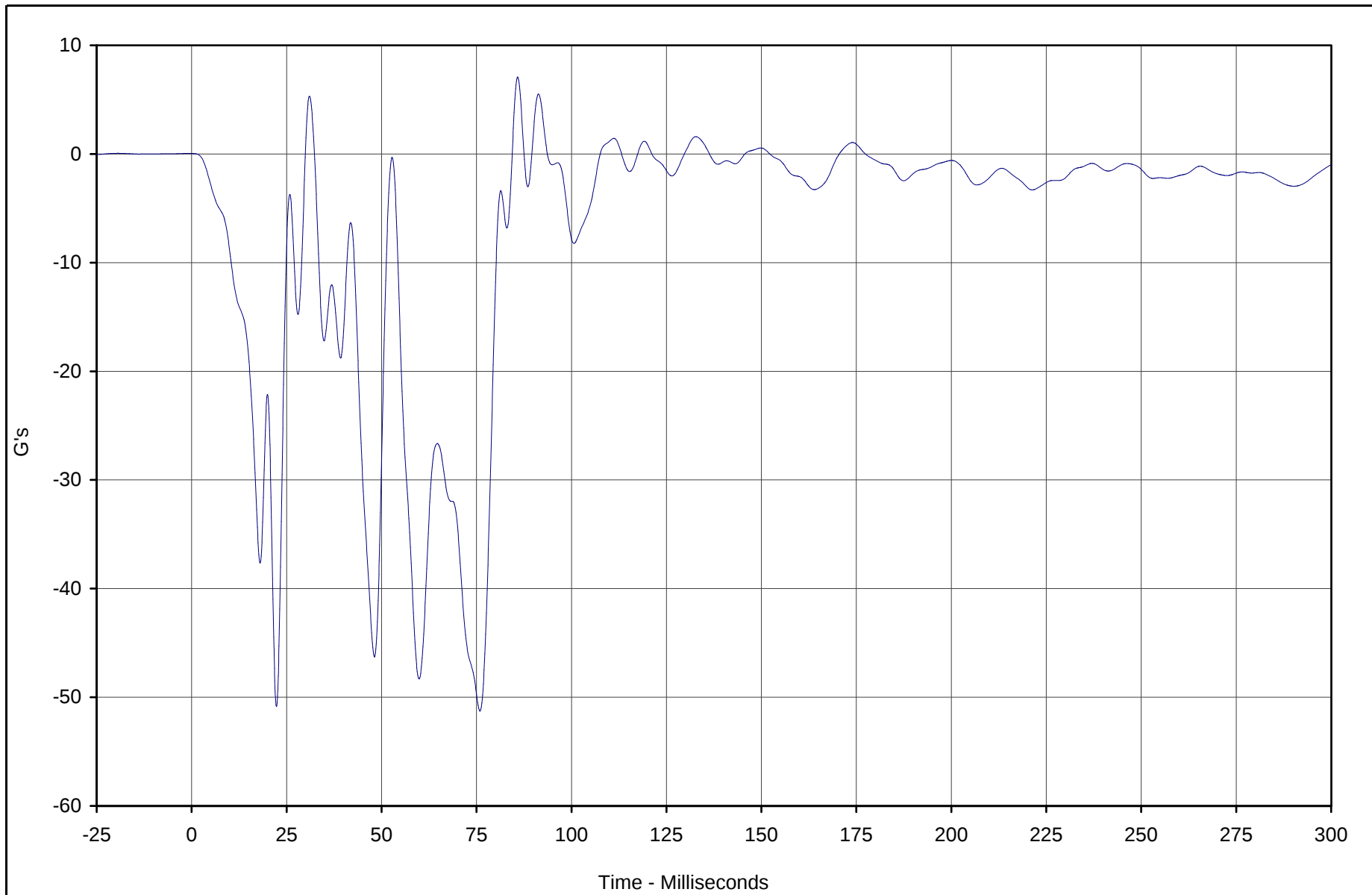
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle Instrument Panel	095	FIL	G's	7.1	85.8	-51.3	75.9	60



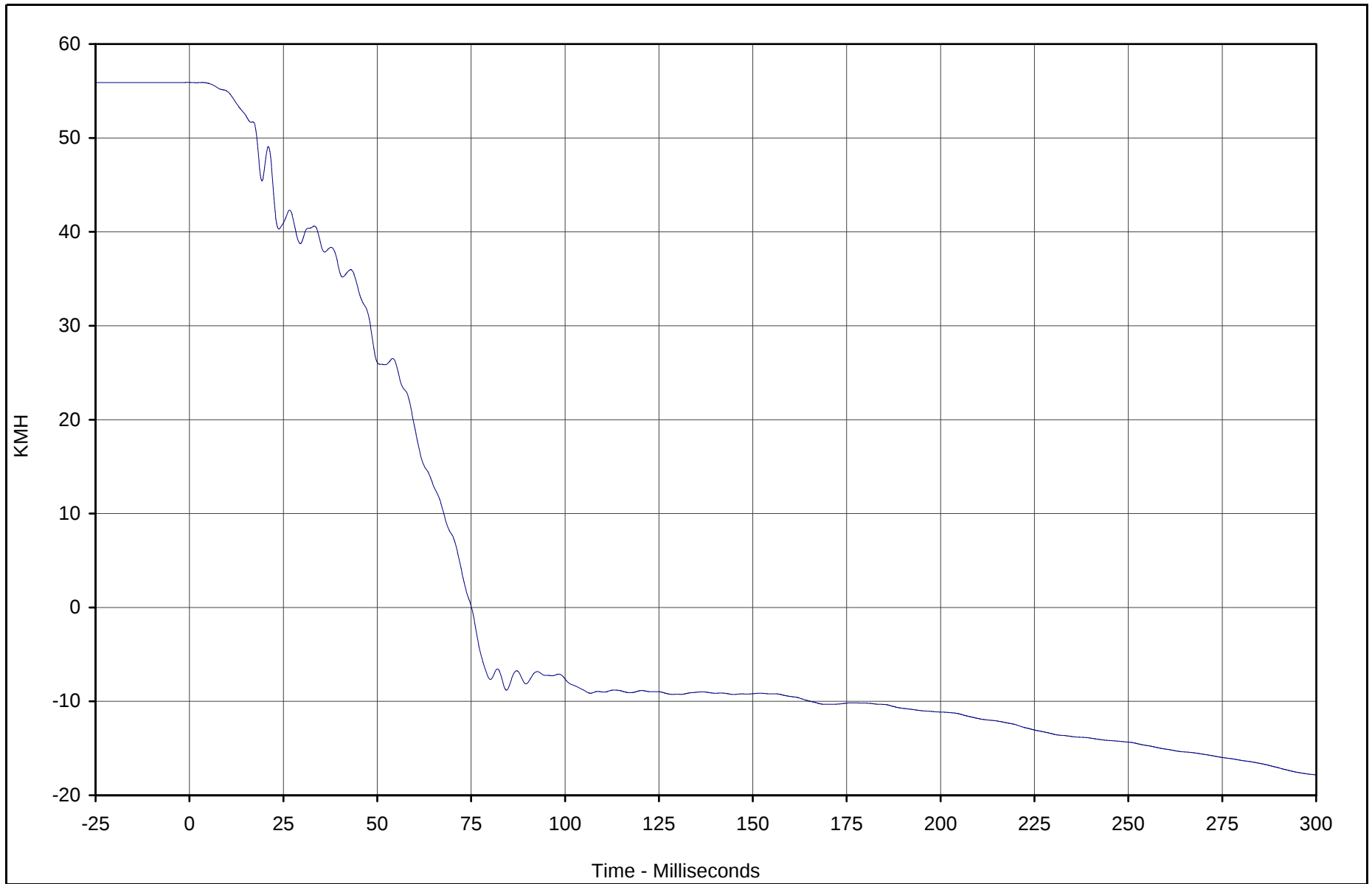
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

B-142



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle Instrument Panel Velocity	095	IN1	KMH	55.9	3.4	-17.8	299.9	180



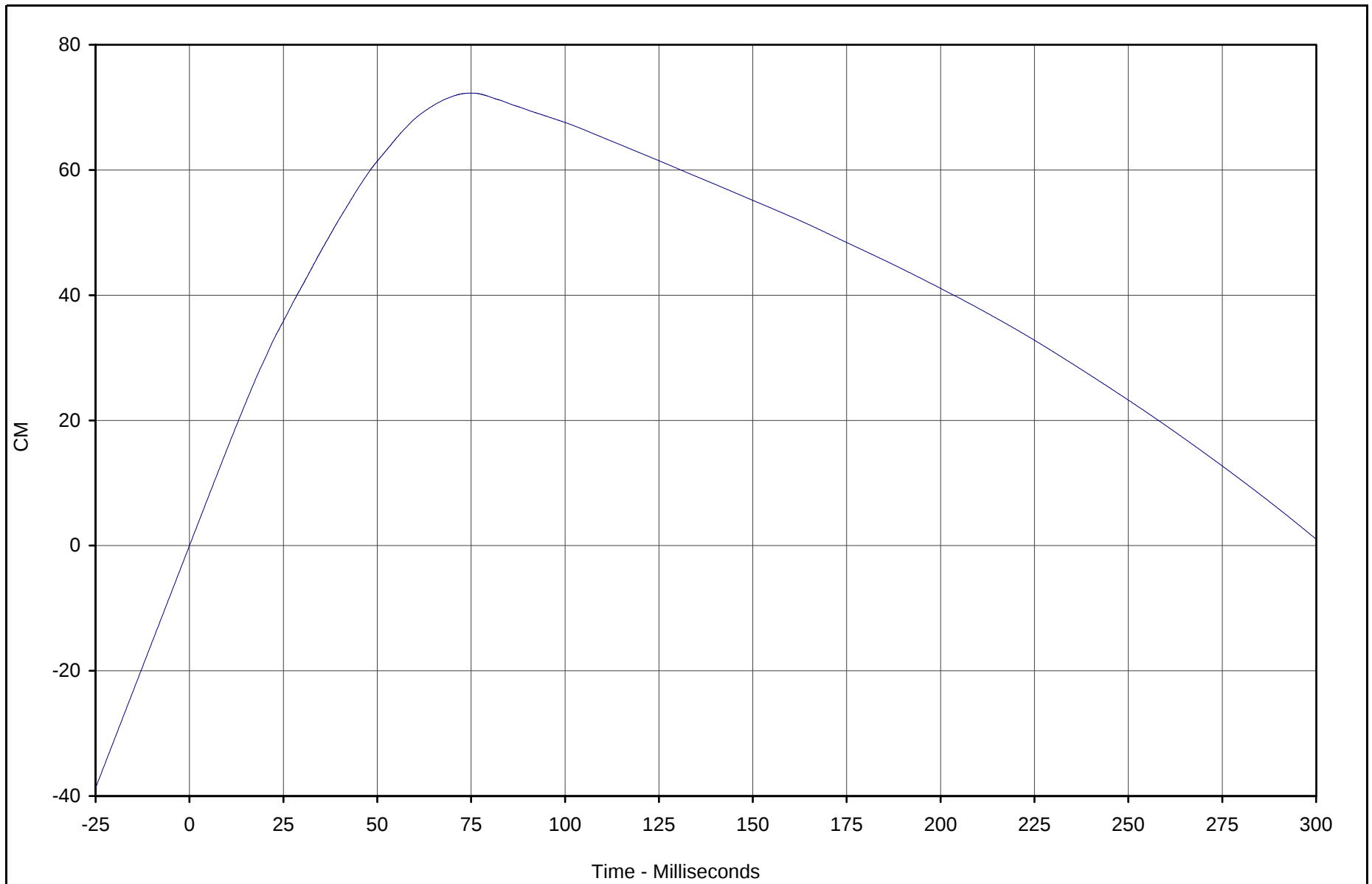
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle Instrument Panel Displacement	095	IN2	CM	72.3	75.1	0.0	0.0	180

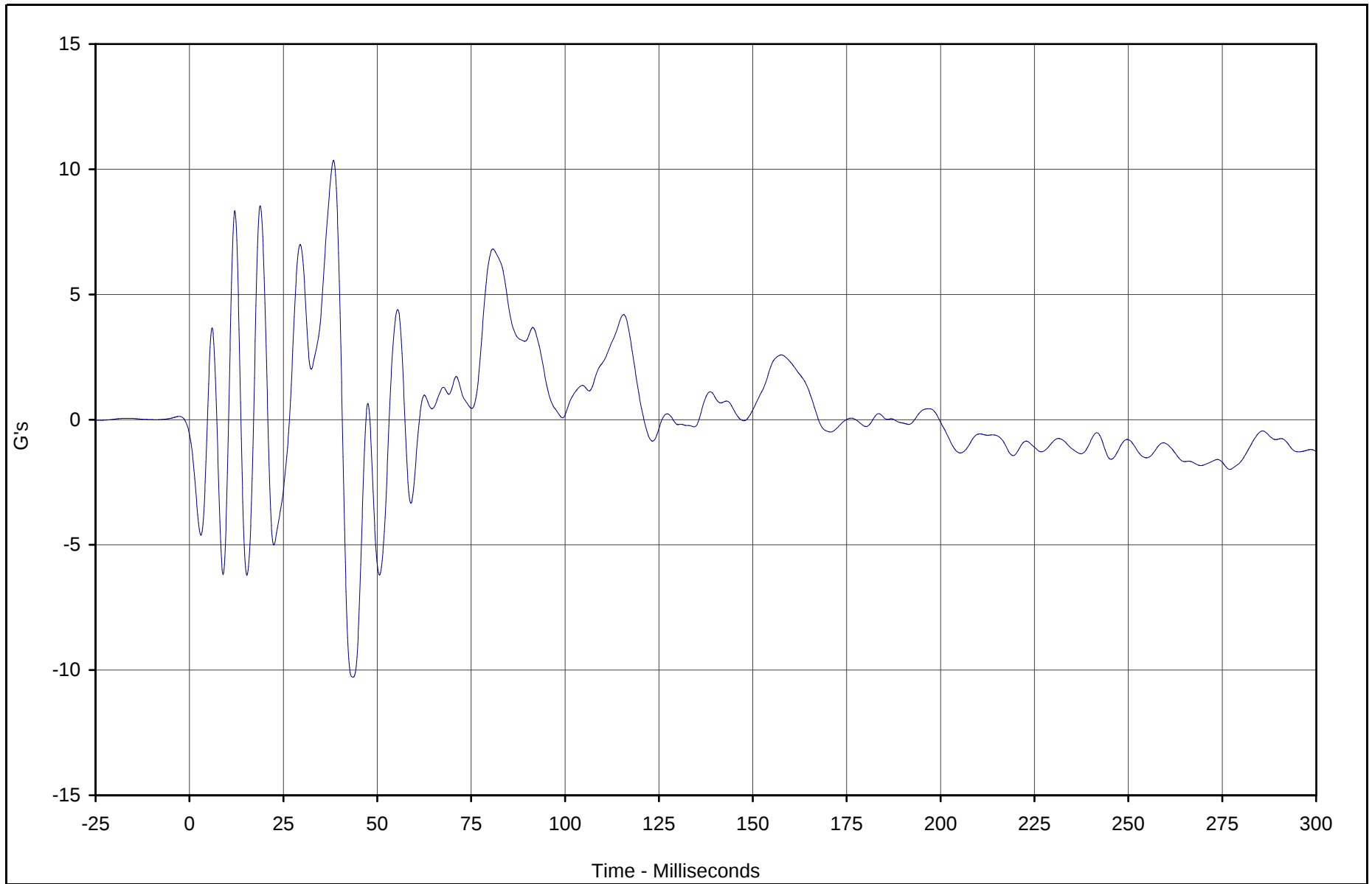


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle Left Rear Z	096	FIL	G's	10.4	38.4	-10.3	43.5	60



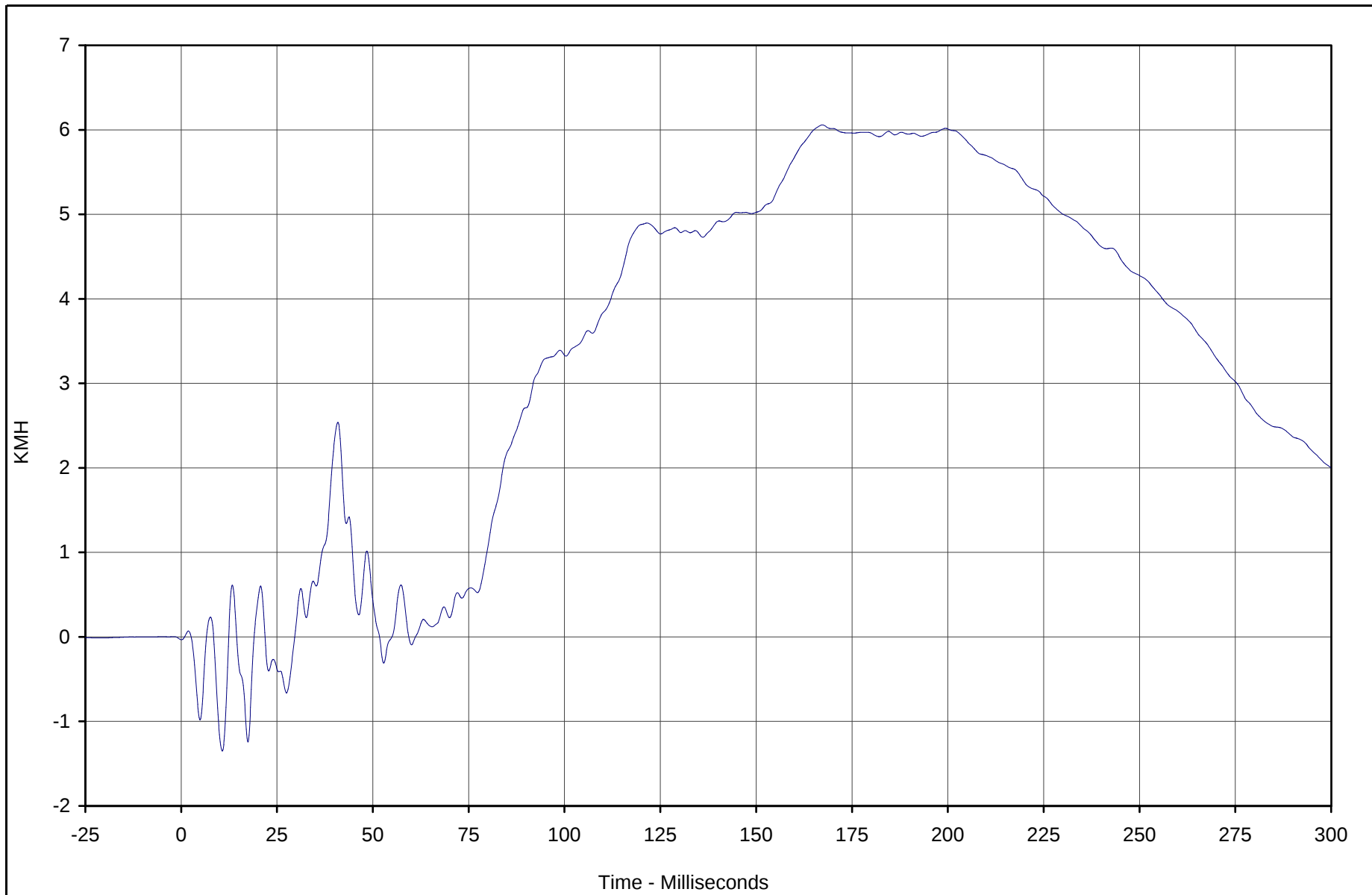
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

B-145



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle Left Rear Z Velocity	096	IN1	KMH	6.1	167.3	-1.3	10.7	180



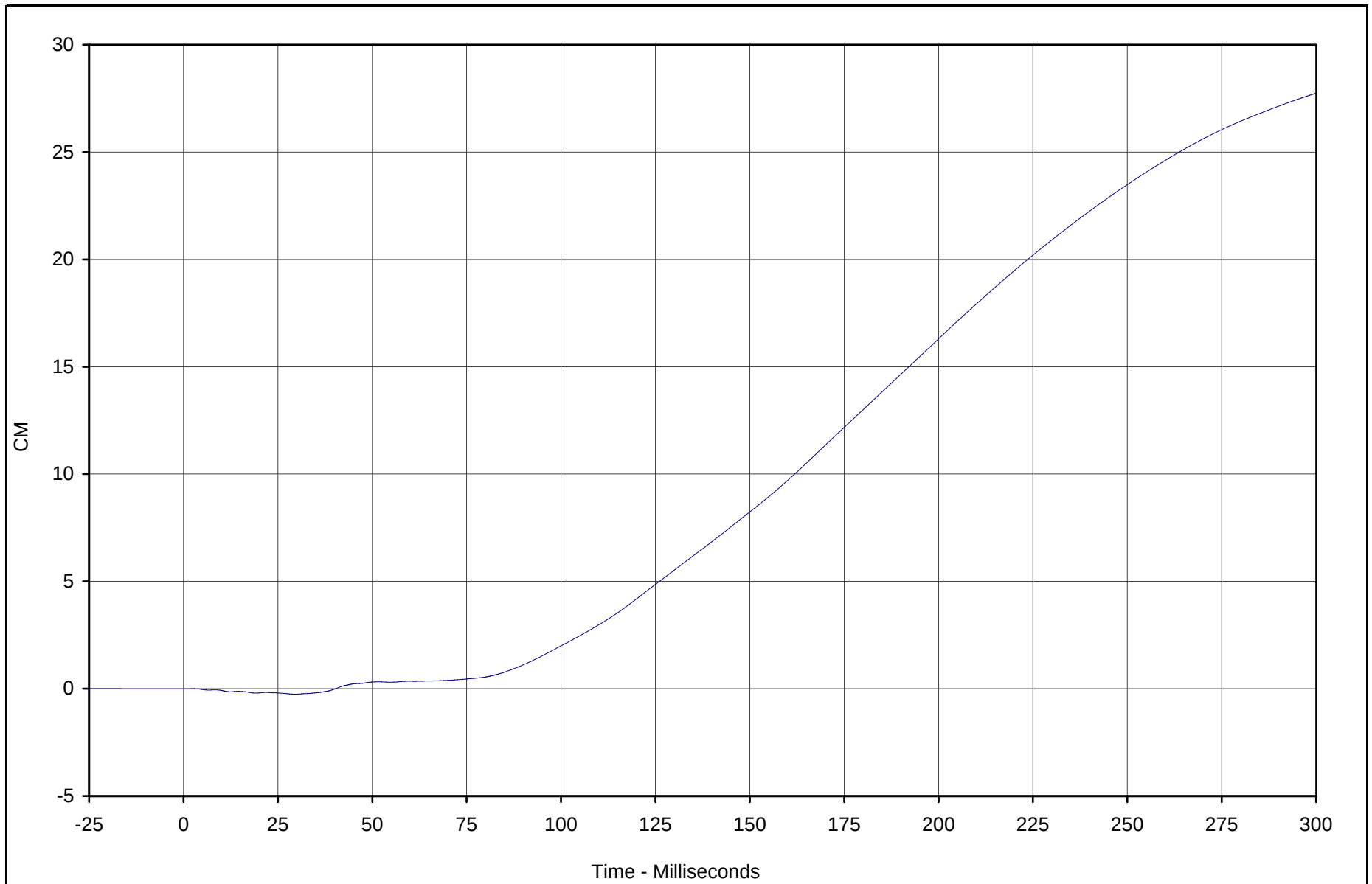
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle Left Rear Z Displ.	096	IN2	CM	27.7	299.9	-0.3	29.6	180



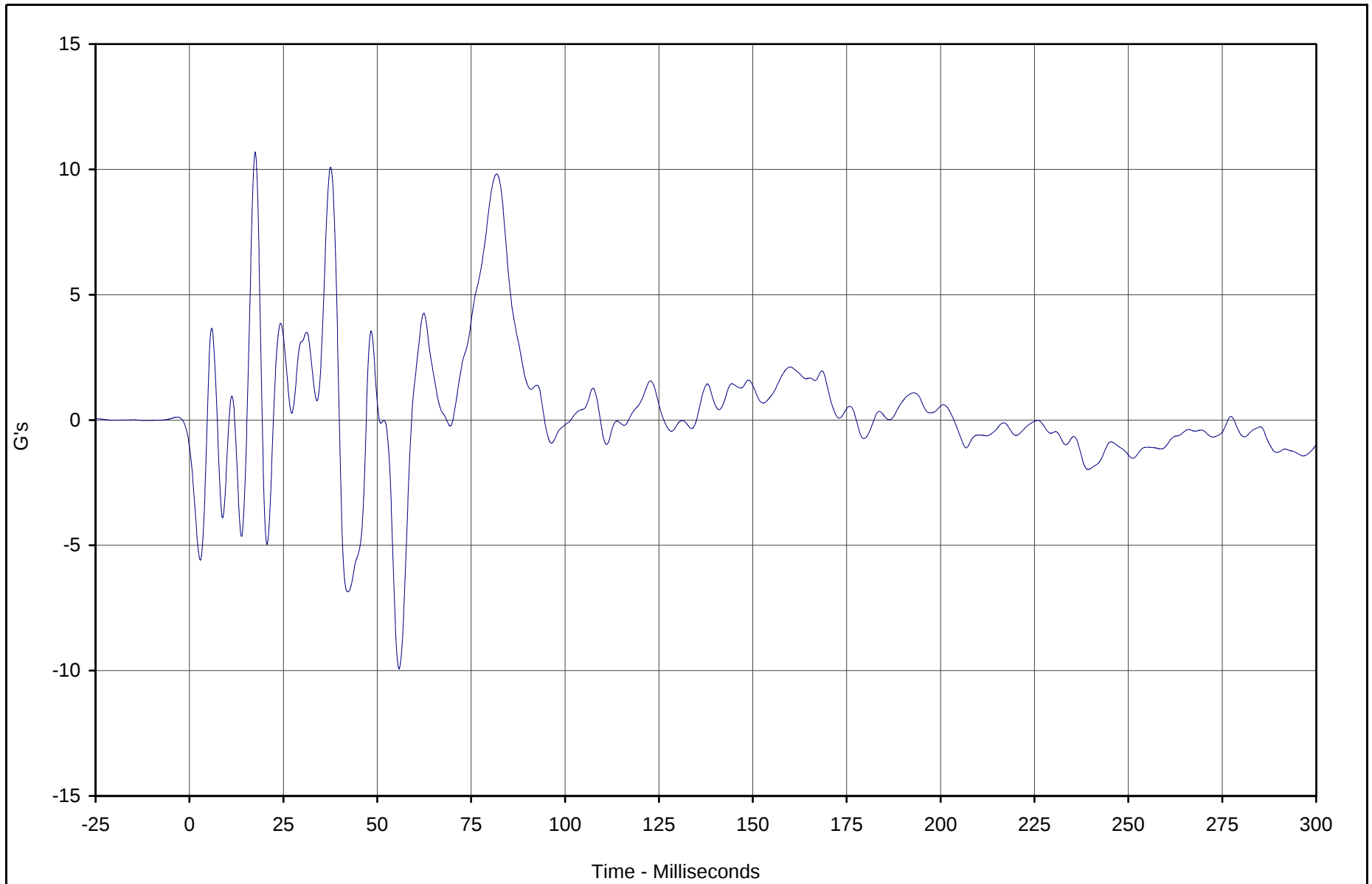
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

B-147



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle Right Rear Z	097	FIL	G's	10.7	17.5	-9.9	55.8	60



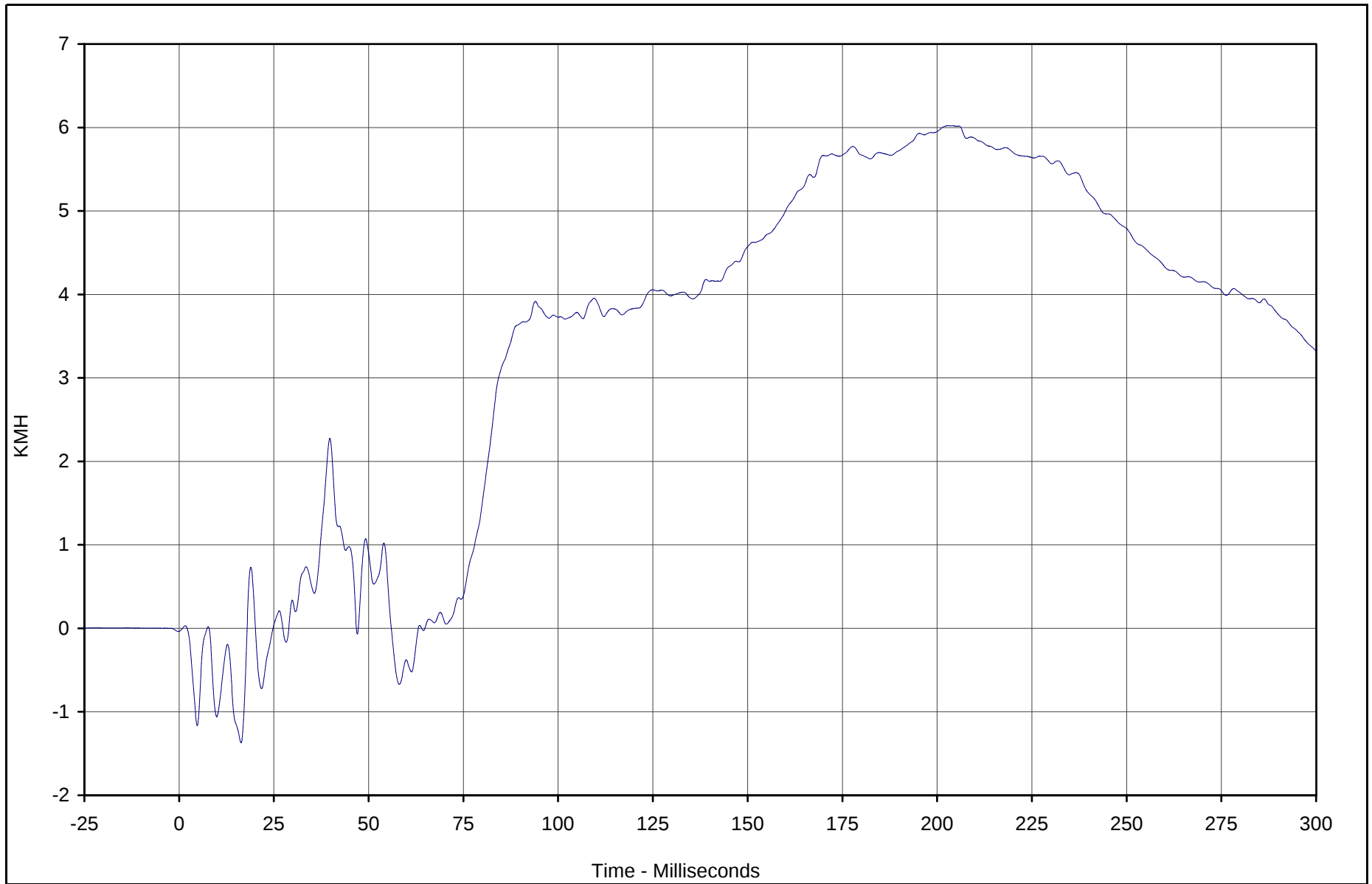
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle Right Rear Z Velocity	097	IN1	KMH	6.0	202.8	-1.4	16.3	180

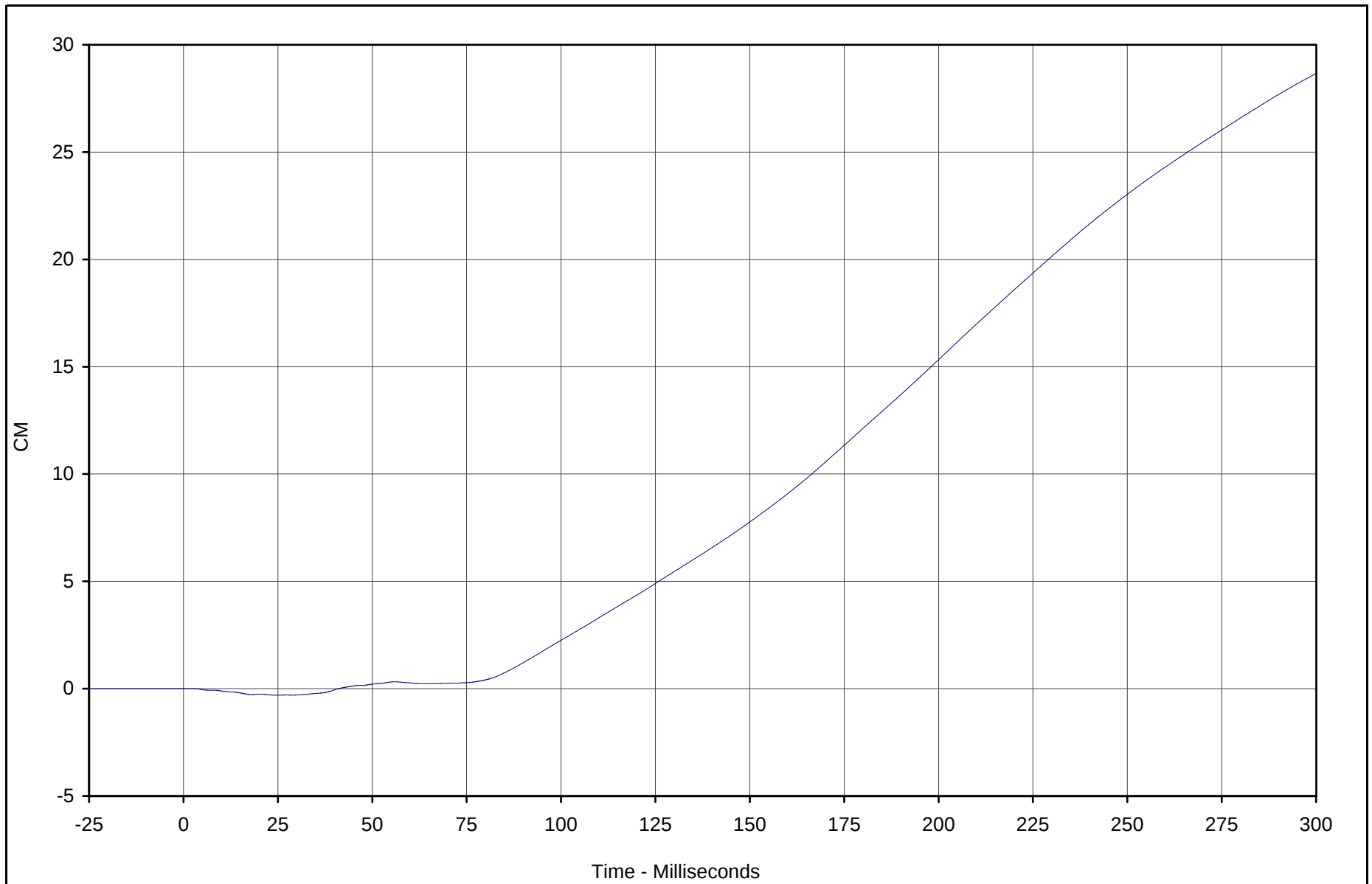


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle Right Rear Z Displ.	097	IN2	CM	28.7	299.9	-0.3	24.8	180



Test Vehicle: 2003 Honda Pilot 4WD SUV

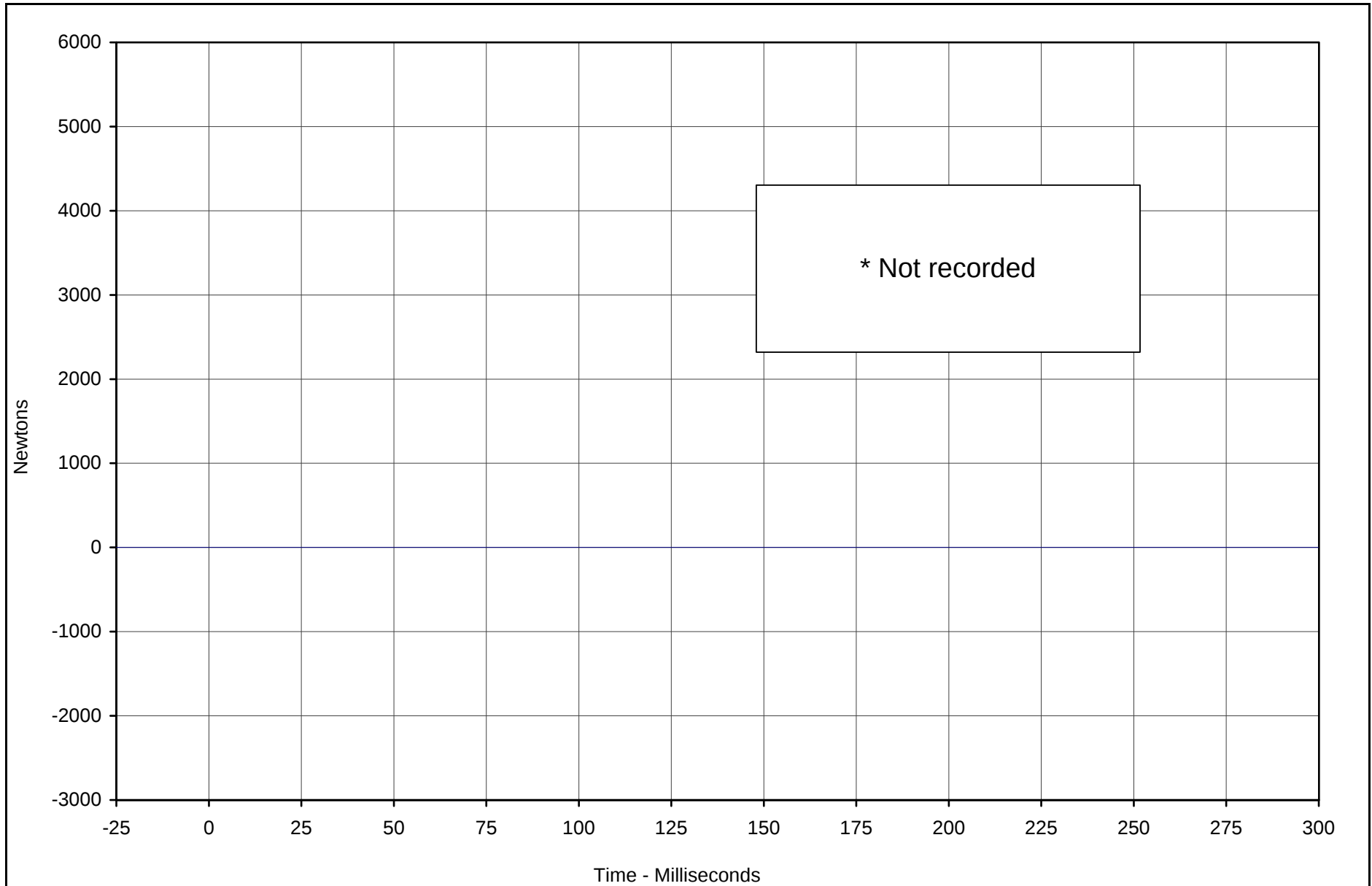
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

APPENDIX C

LOAD CELL BARRIER DATA PLOTS



* Not recorded

Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force A1	098	FIL	Newtons	0.0	0.0	0.0	0.0	60



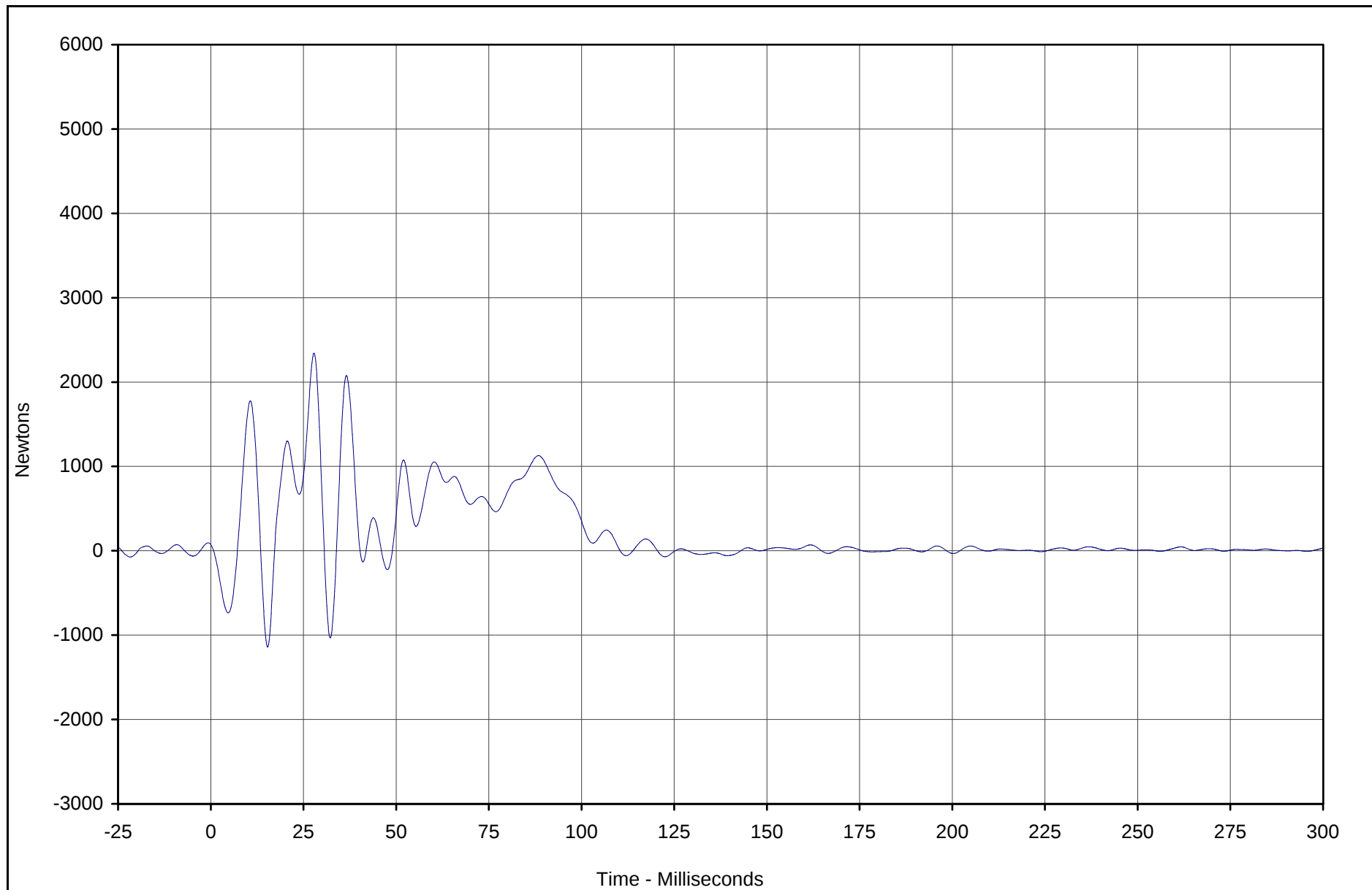
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

C-2



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force A2	099	FIL	Newtons	2342.3	27.8	-1142.3	15.3	60

Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

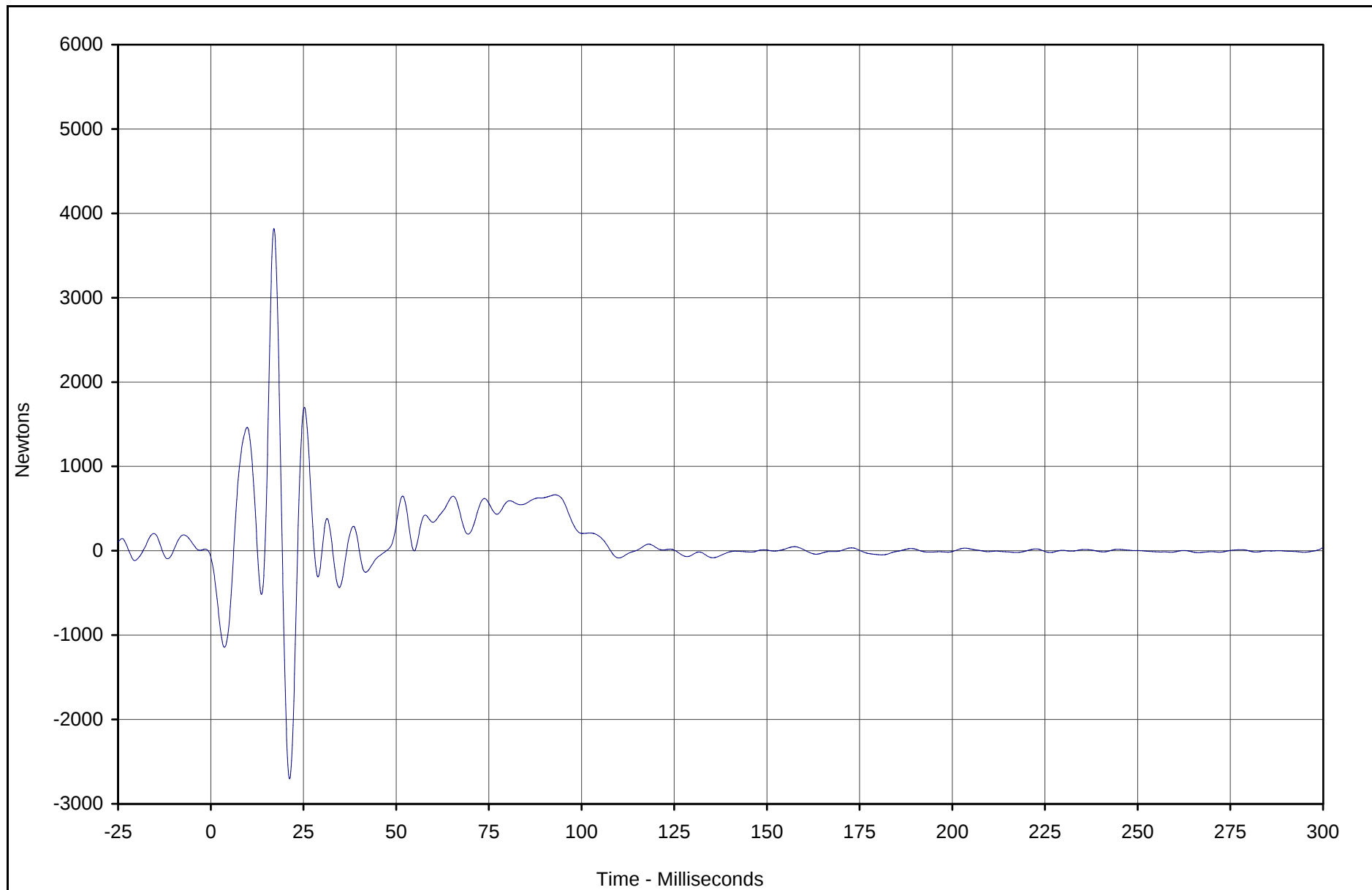
Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



KAR22072-01

C-3



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force A3	100	FIL	Newtons	3819.7	17.0	-2703.1	21.3	60



Test Vehicle: 2003 Honda Pilot 4WD SUV

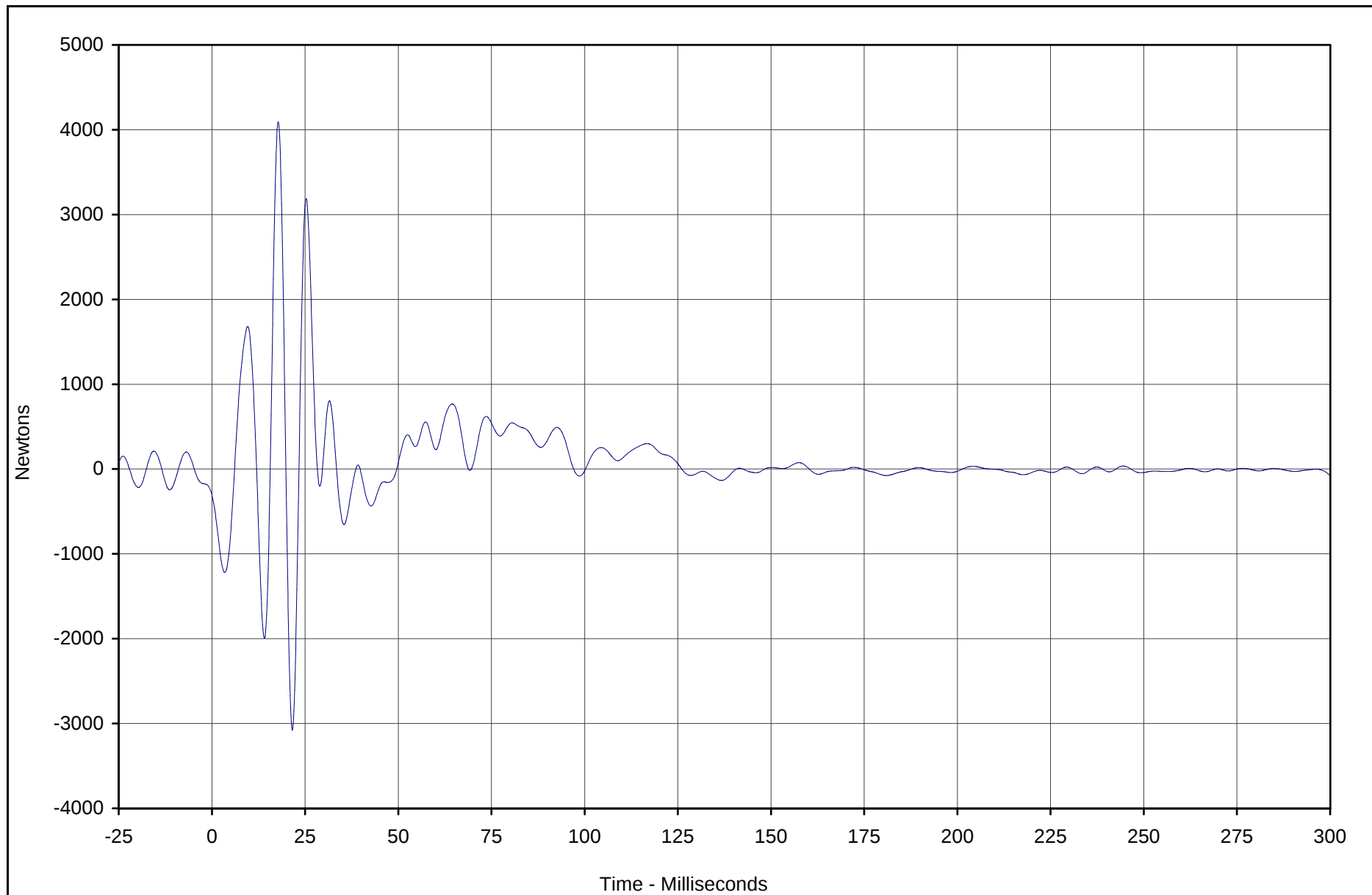
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

C-4



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force A4	101	FIL	Newtons	4091.2	17.8	-3079.6	21.6	60

Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

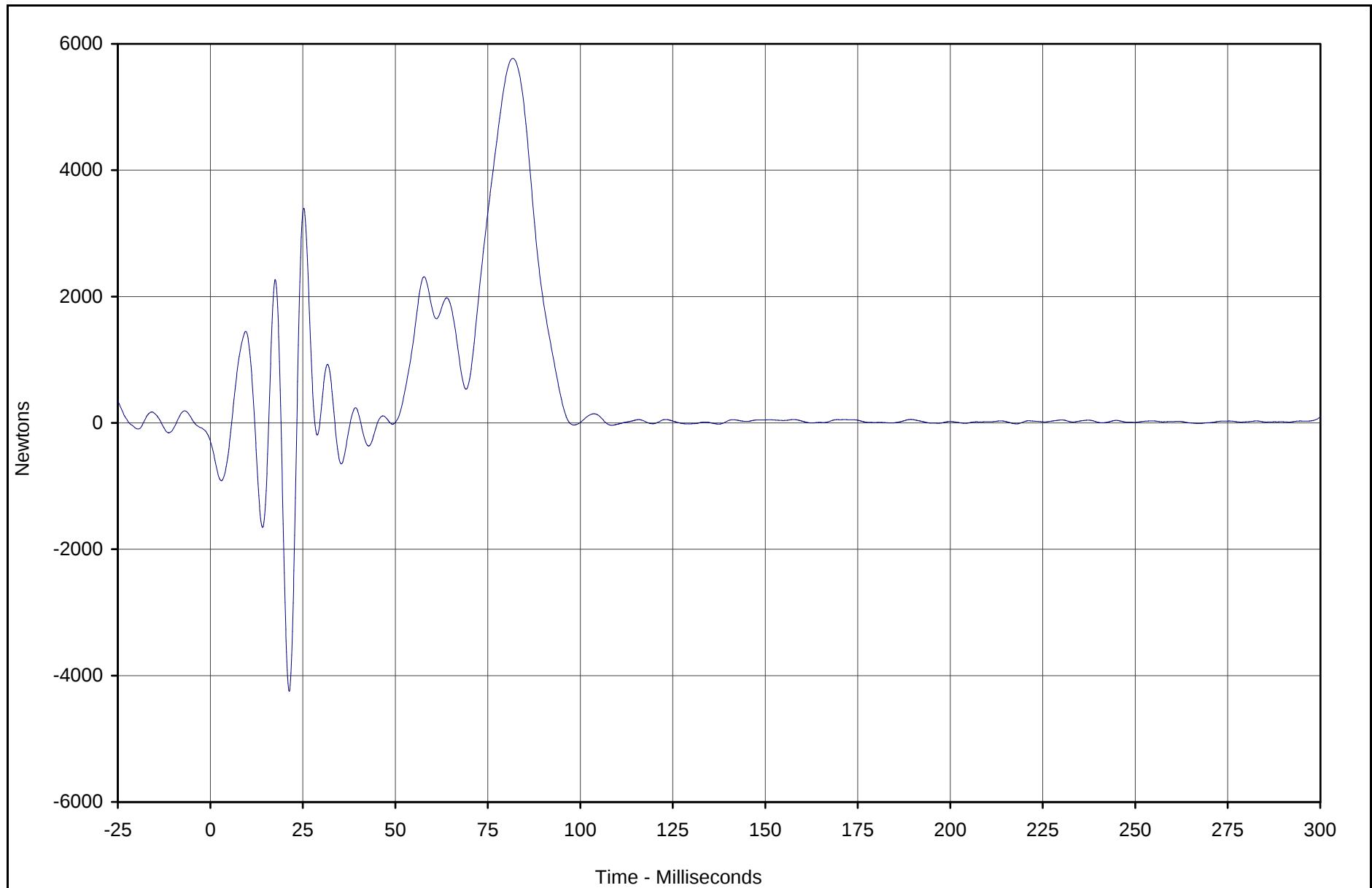
Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



KAR22072-01

C-5



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force A5	102	FIL	Newtons	5770.4	81.8	-4249.3	21.3	60



Test Vehicle: 2003 Honda Pilot 4WD SUV

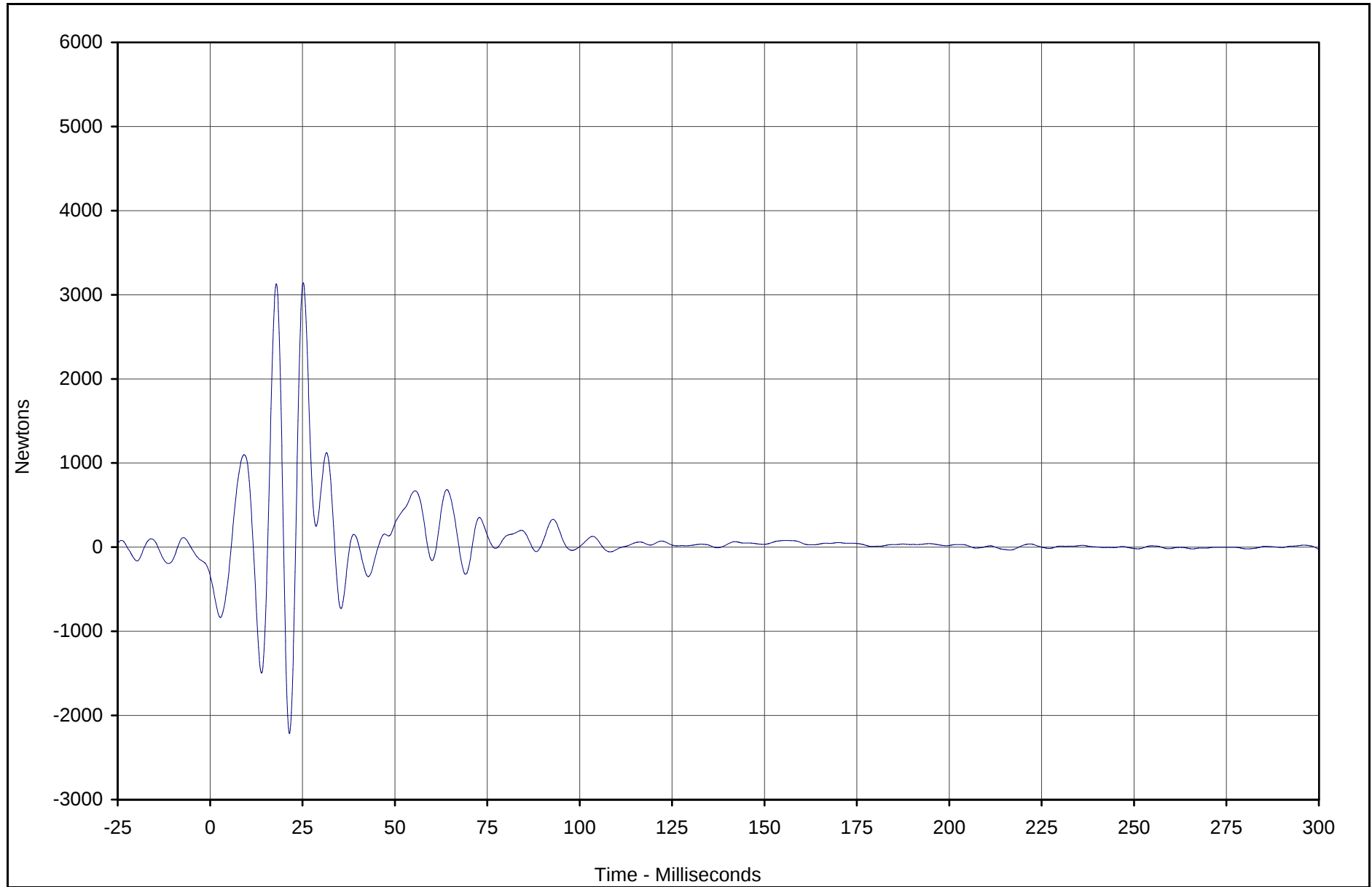
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

C-6



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force A6	103	FIL	Newtons	3142.0	25.2	-2216.3	21.5	60



Test Vehicle: 2003 Honda Pilot 4WD SUV

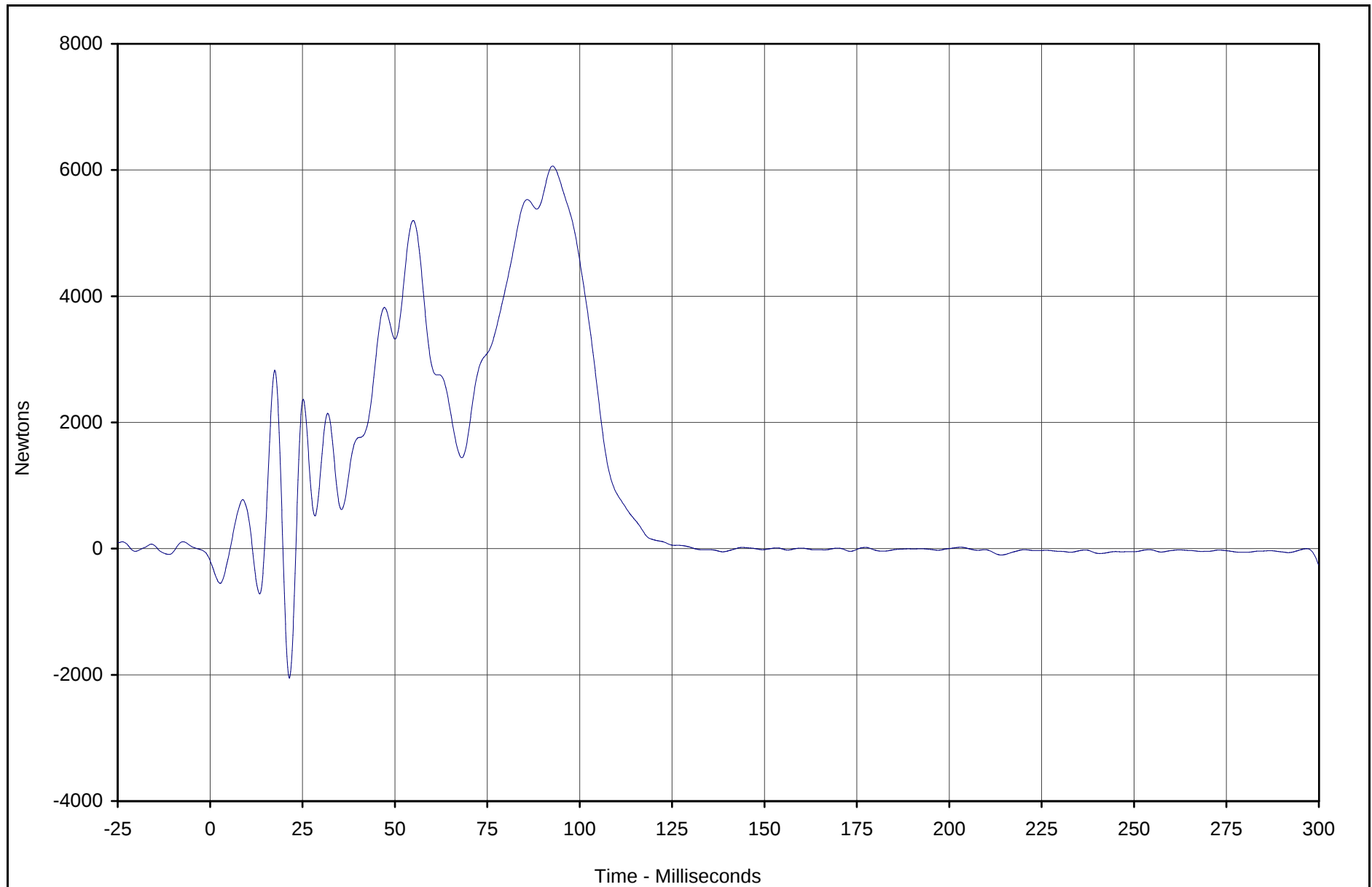
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

C-7



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force A7	104	FIL	Newtons	6063.4	92.7	-2049.3	21.5	60



Test Vehicle: 2003 Honda Pilot 4WD SUV

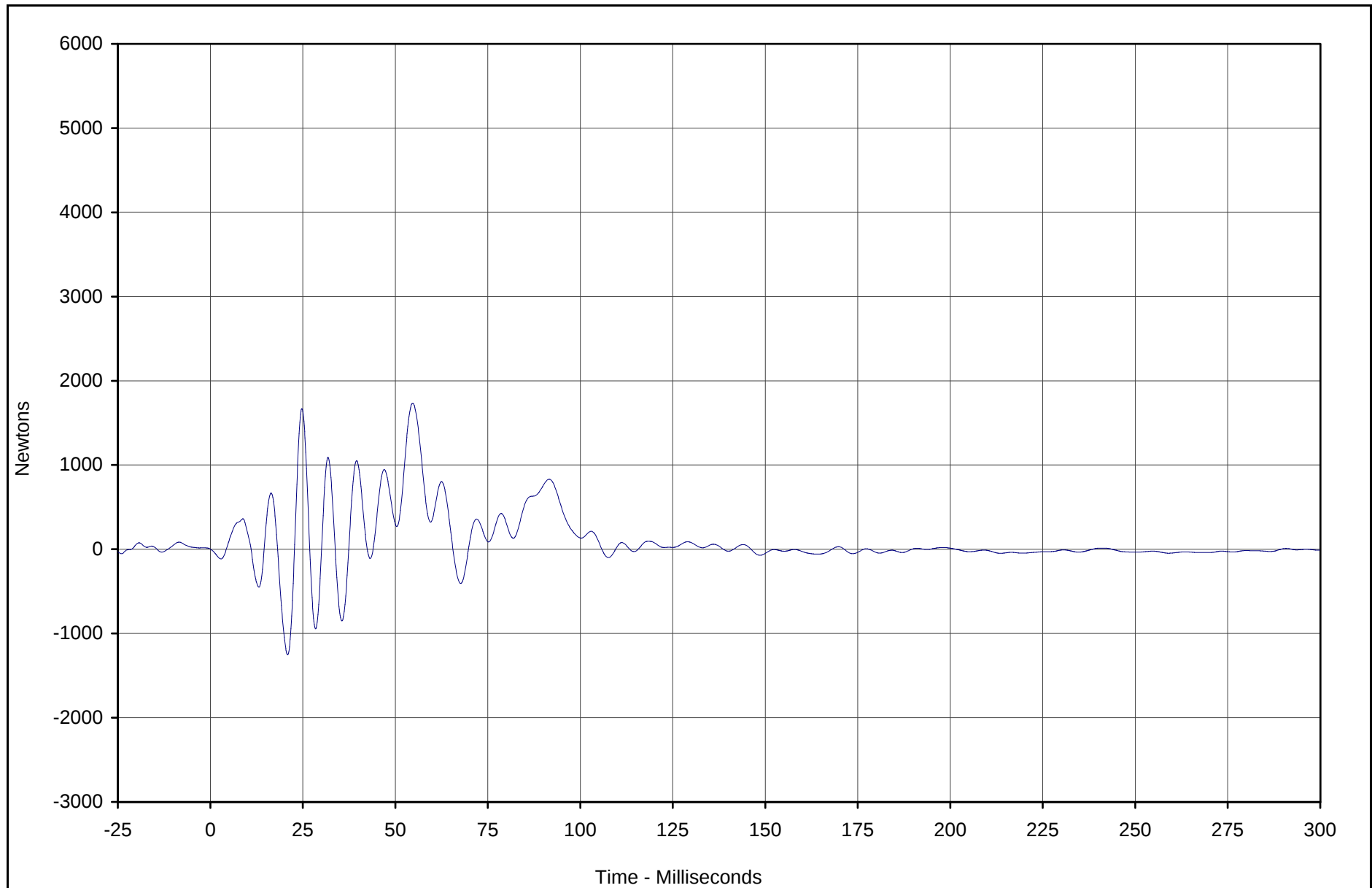
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

C-8



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force A8	105	FIL	Newtons	1734.2	54.7	-1251.7	20.9	60

Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

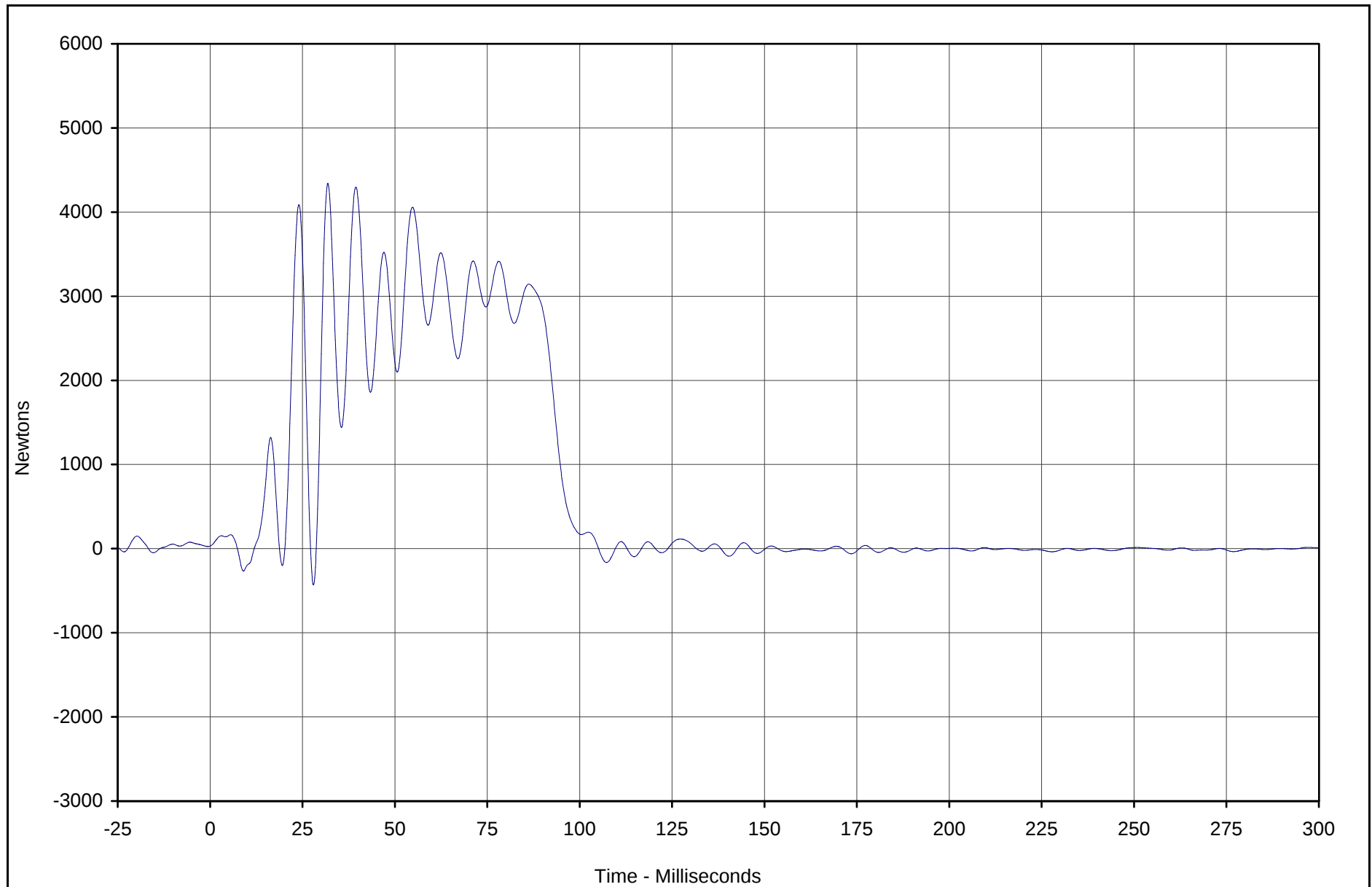
Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



KAR22072-01

C-9



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force A9	106	FIL	Newtons	4342.4	31.9	-430.4	28.0	60



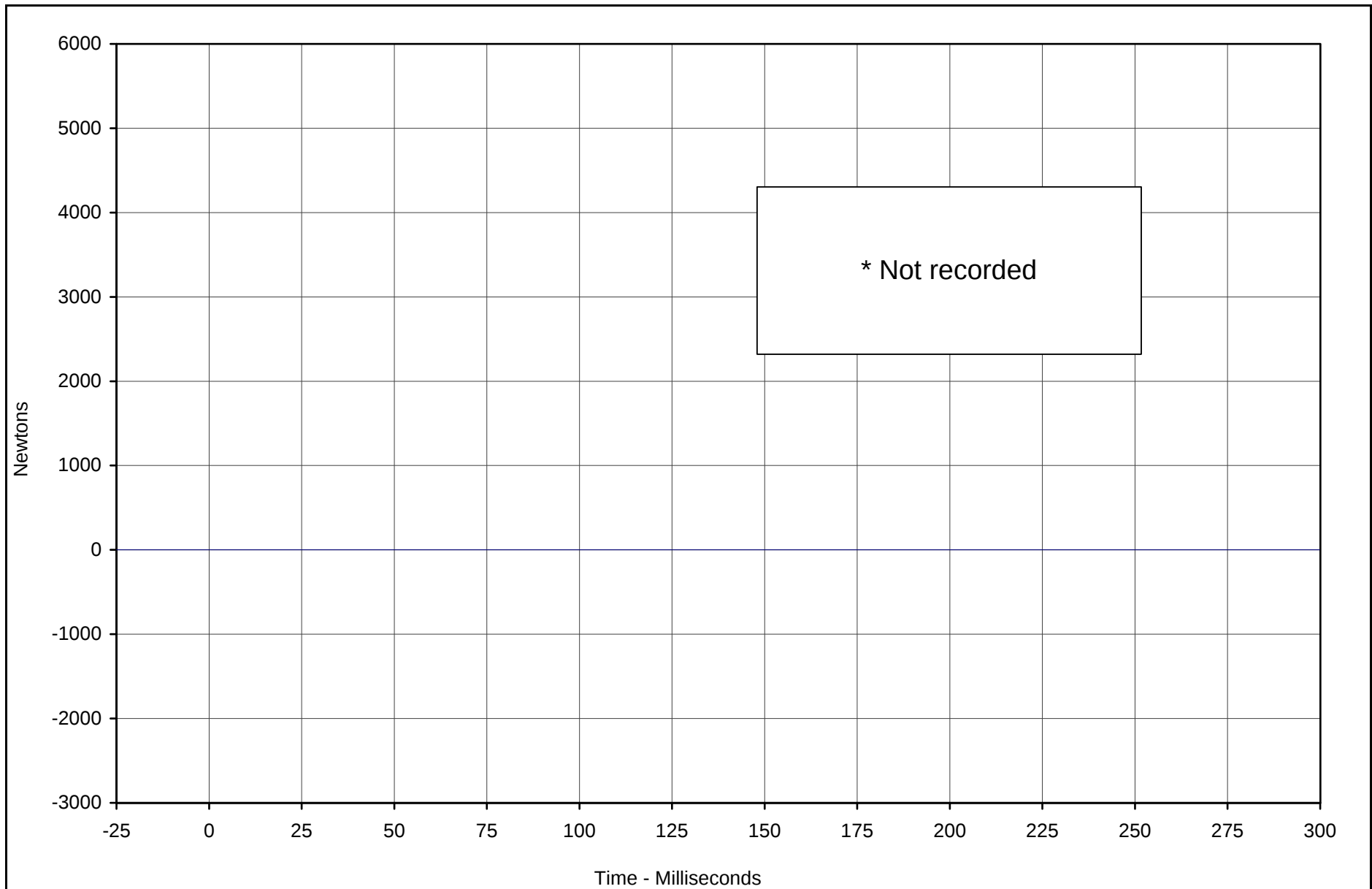
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01



* Not recorded

Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force B1	107	FIL	Newtons	0.0	0.0	0.0	0.0	60



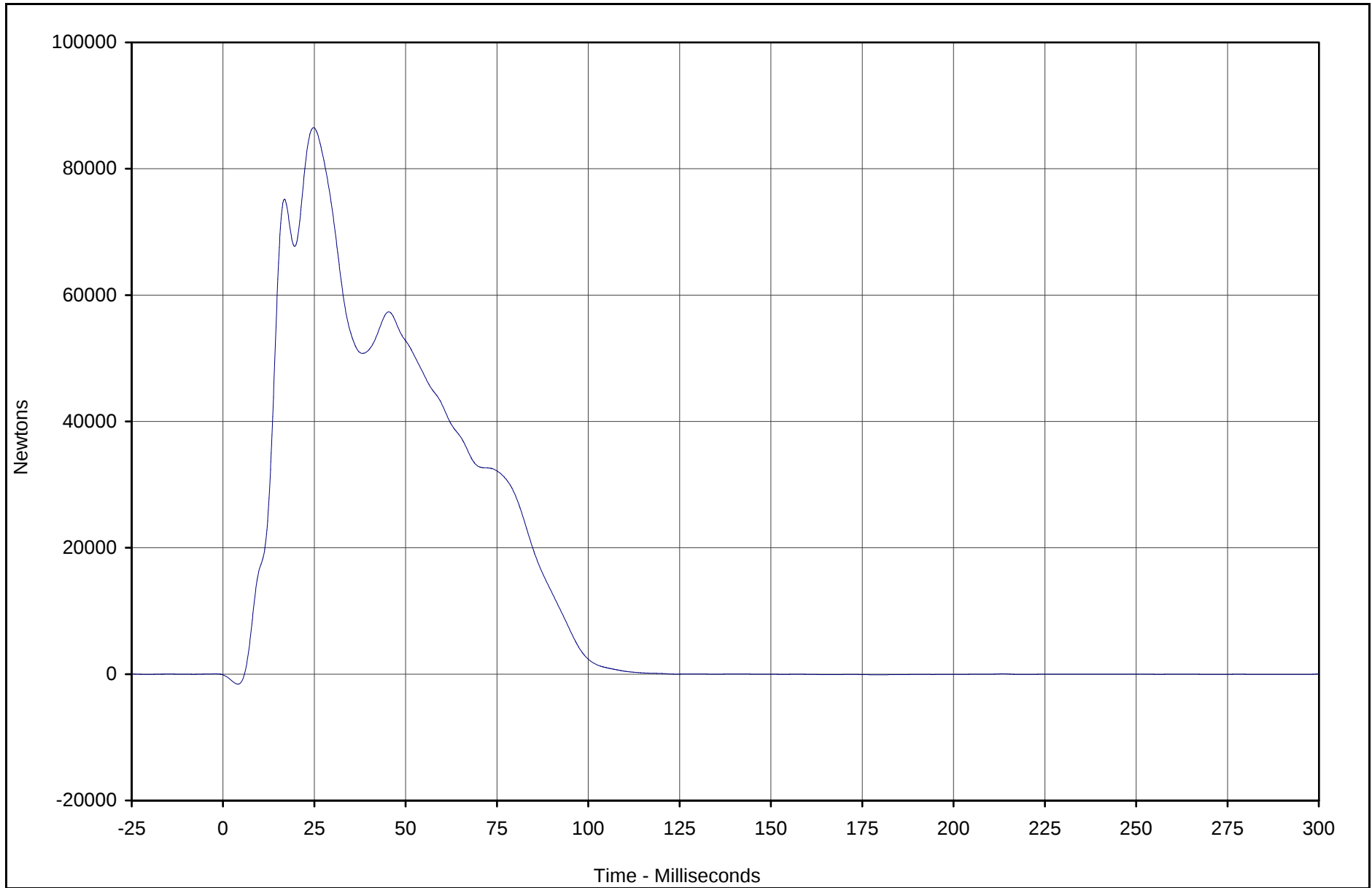
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

C-11



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force B2	108	FIL	Newtons	86510.8	24.8	-1578.8	4.1	60



Test Vehicle: 2003 Honda Pilot 4WD SUV

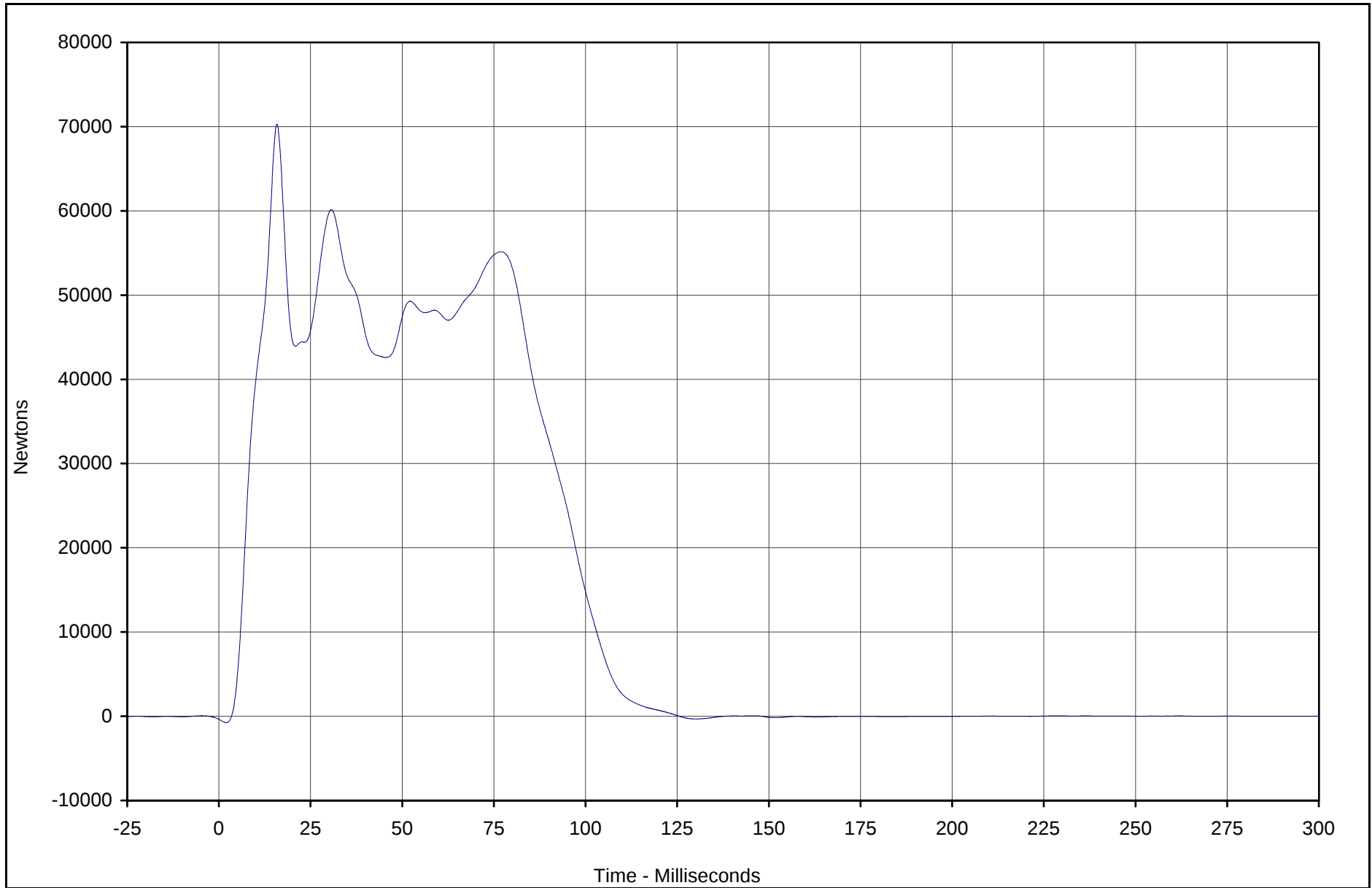
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

C-12



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force B3	109	FIL	Newtons	70288.5	15.8	-750.5	2.0	60



Test Vehicle: 2003 Honda Pilot 4WD SUV

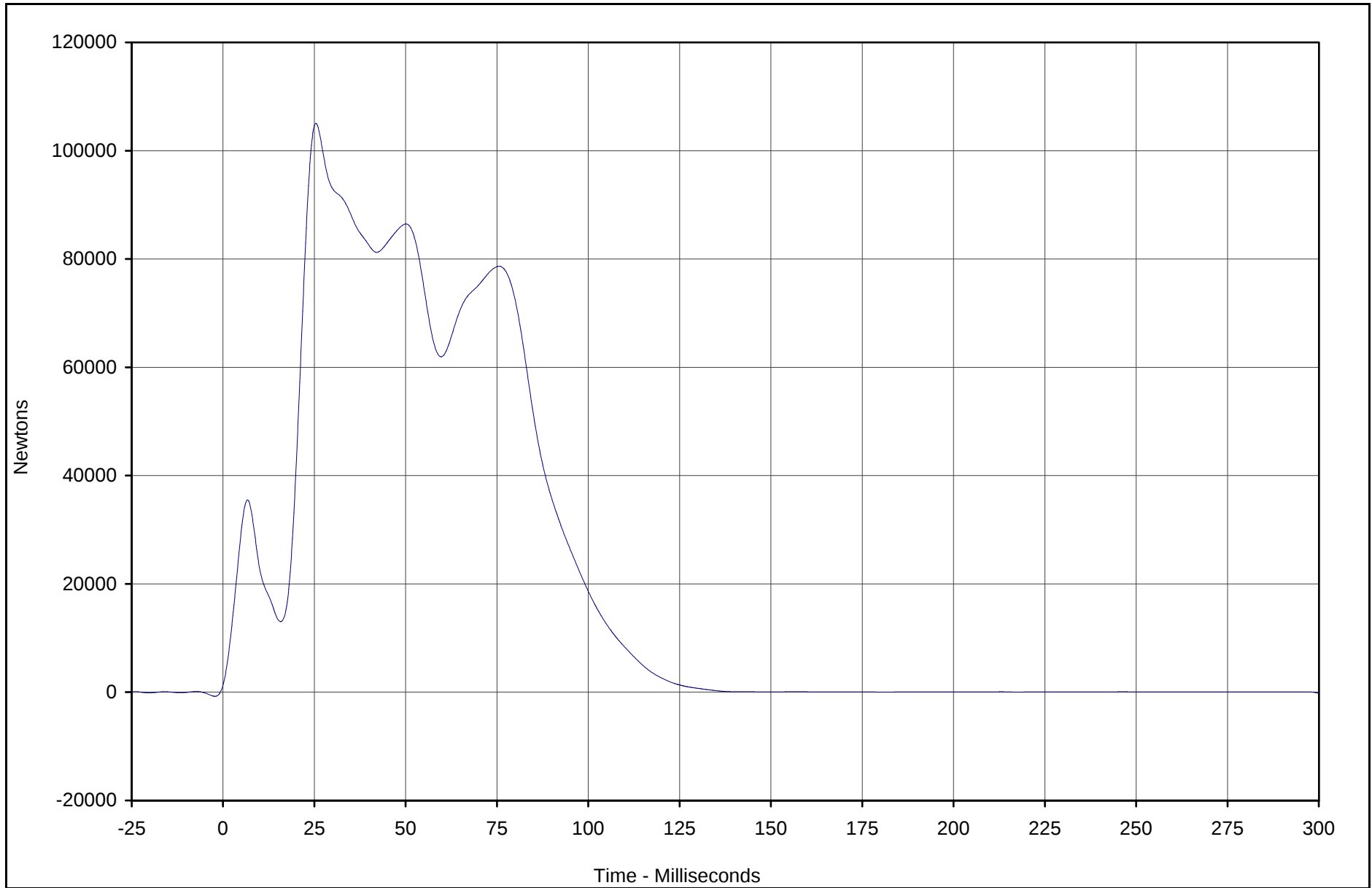
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

C-13



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force B4	110	FIL	Newtons	105052.9	25.4	-188.8	299.9	60



Test Vehicle: 2003 Honda Pilot 4WD SUV

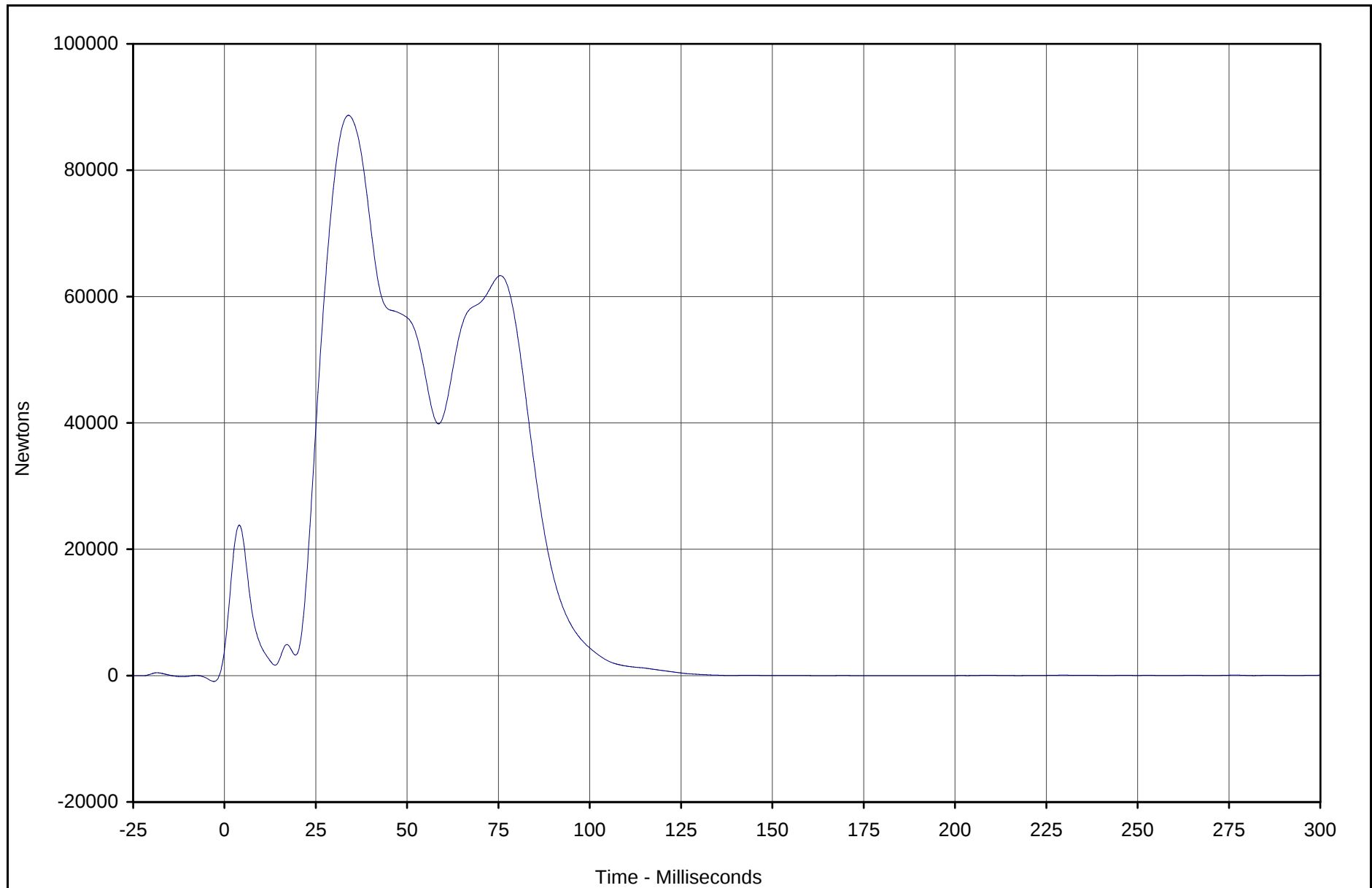
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

C-14



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force B5	111	FIL	Newtons	88687.7	34.0	-21.5	185.8	60



Test Vehicle: 2003 Honda Pilot 4WD SUV

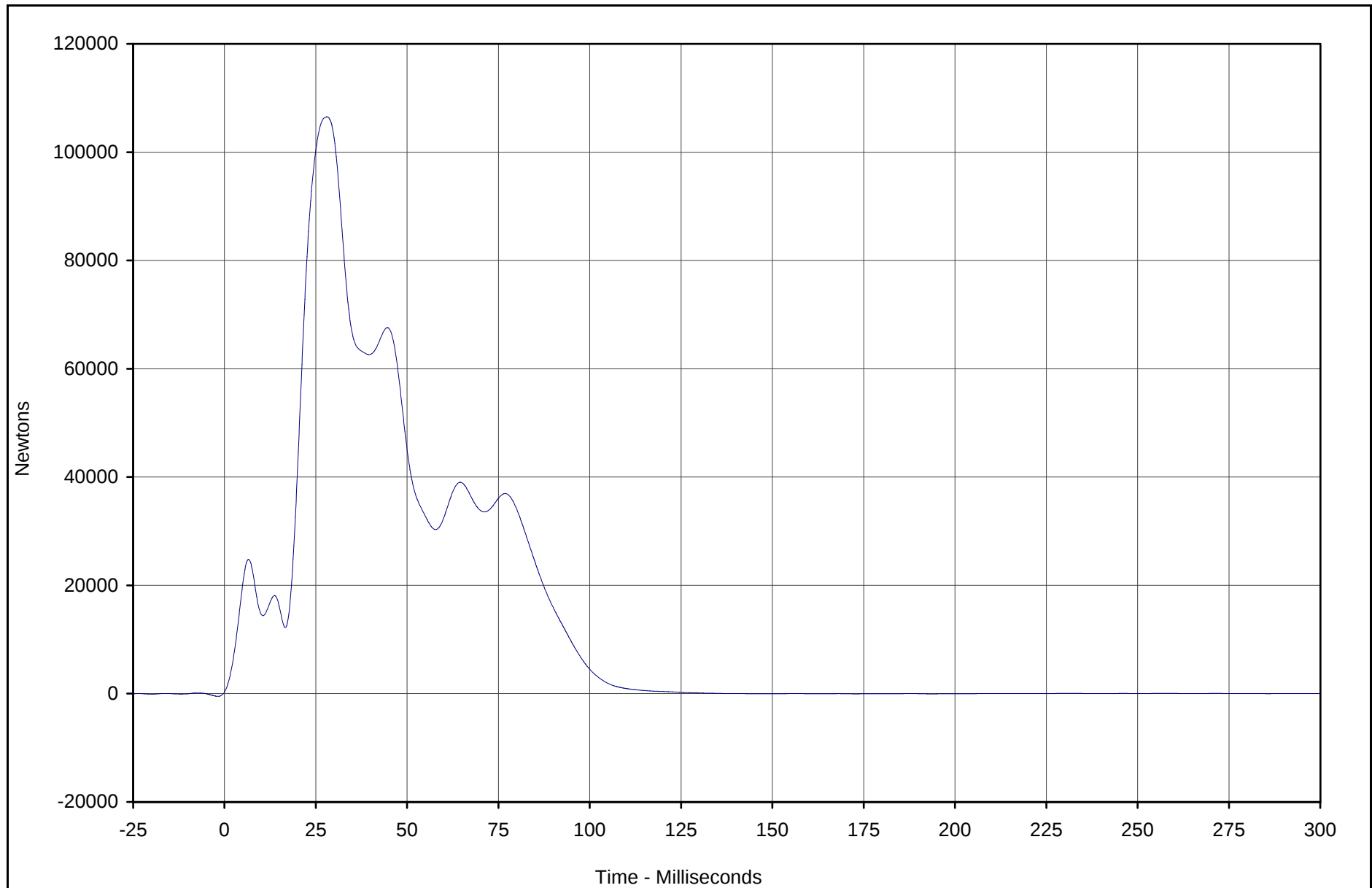
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

C-15



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force B6	112	FIL	Newtons	106518.2	28.0	-47.5	193.8	60



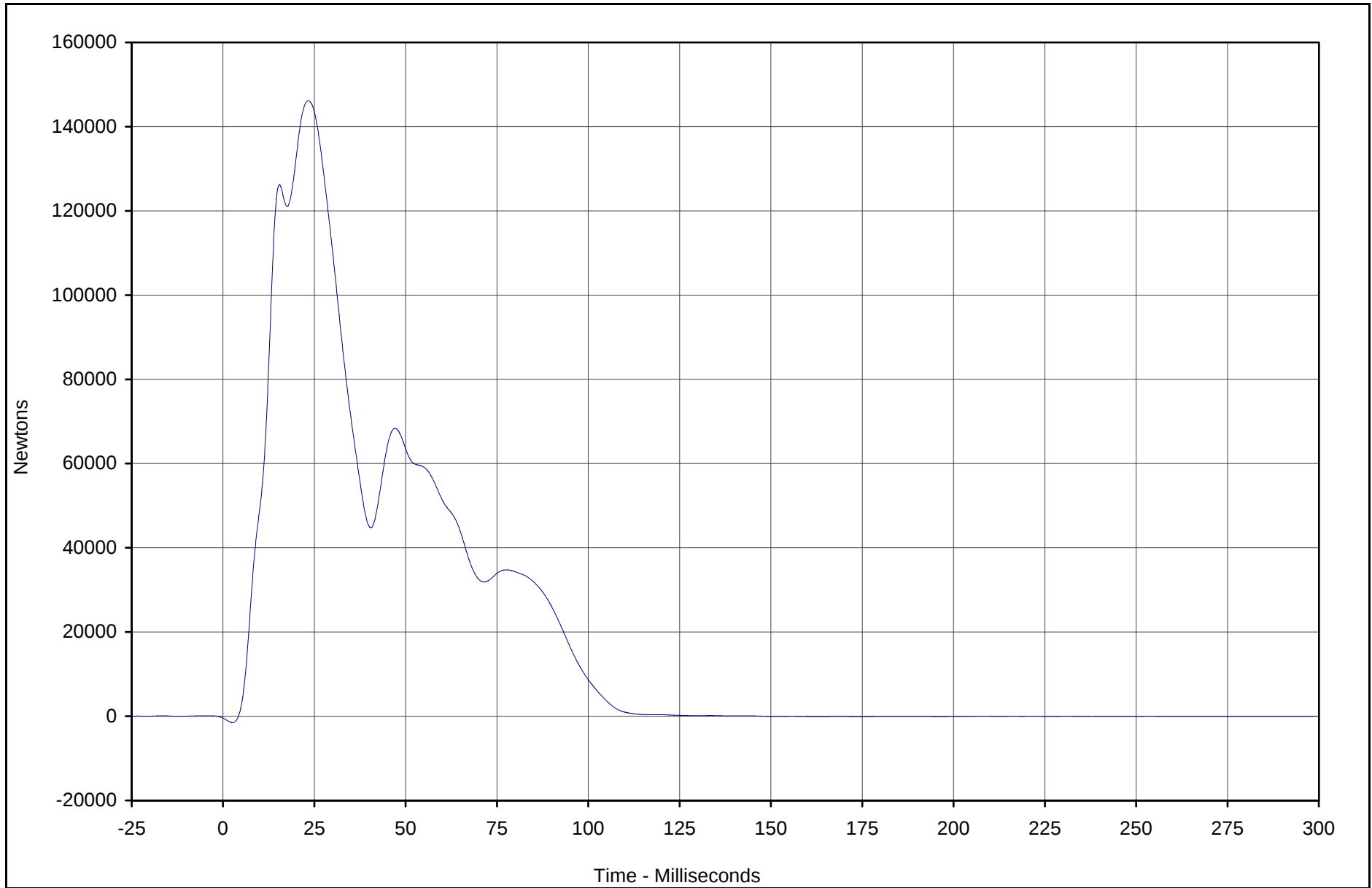
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force B7	113	FIL	Newtons	146138.4	23.3	-1524.7	2.6	60



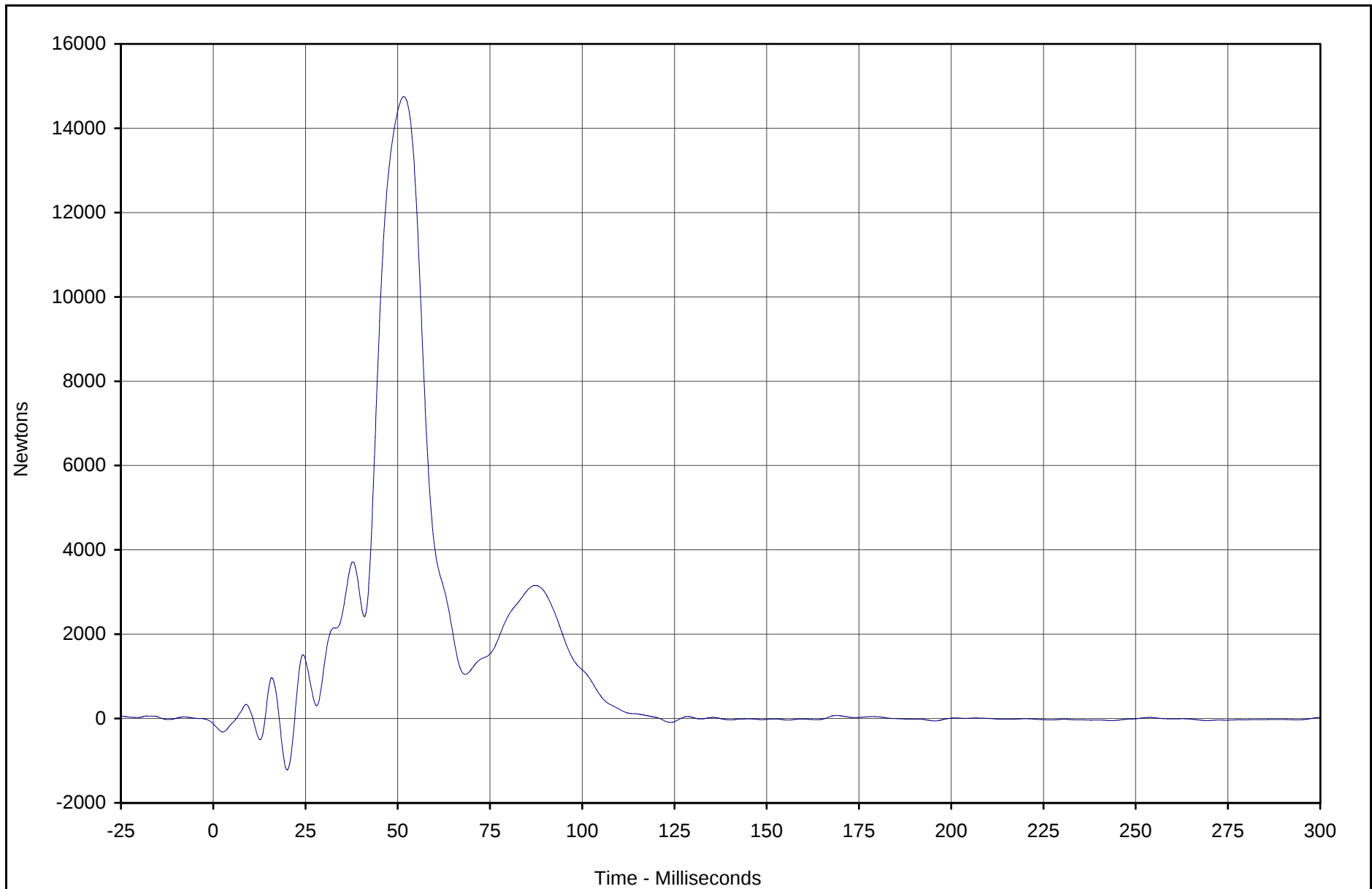
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

C-17



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force B8	114	FIL	Newtons	14750.1	51.7	-1218.9	20.0	60



Test Vehicle: 2003 Honda Pilot 4WD SUV

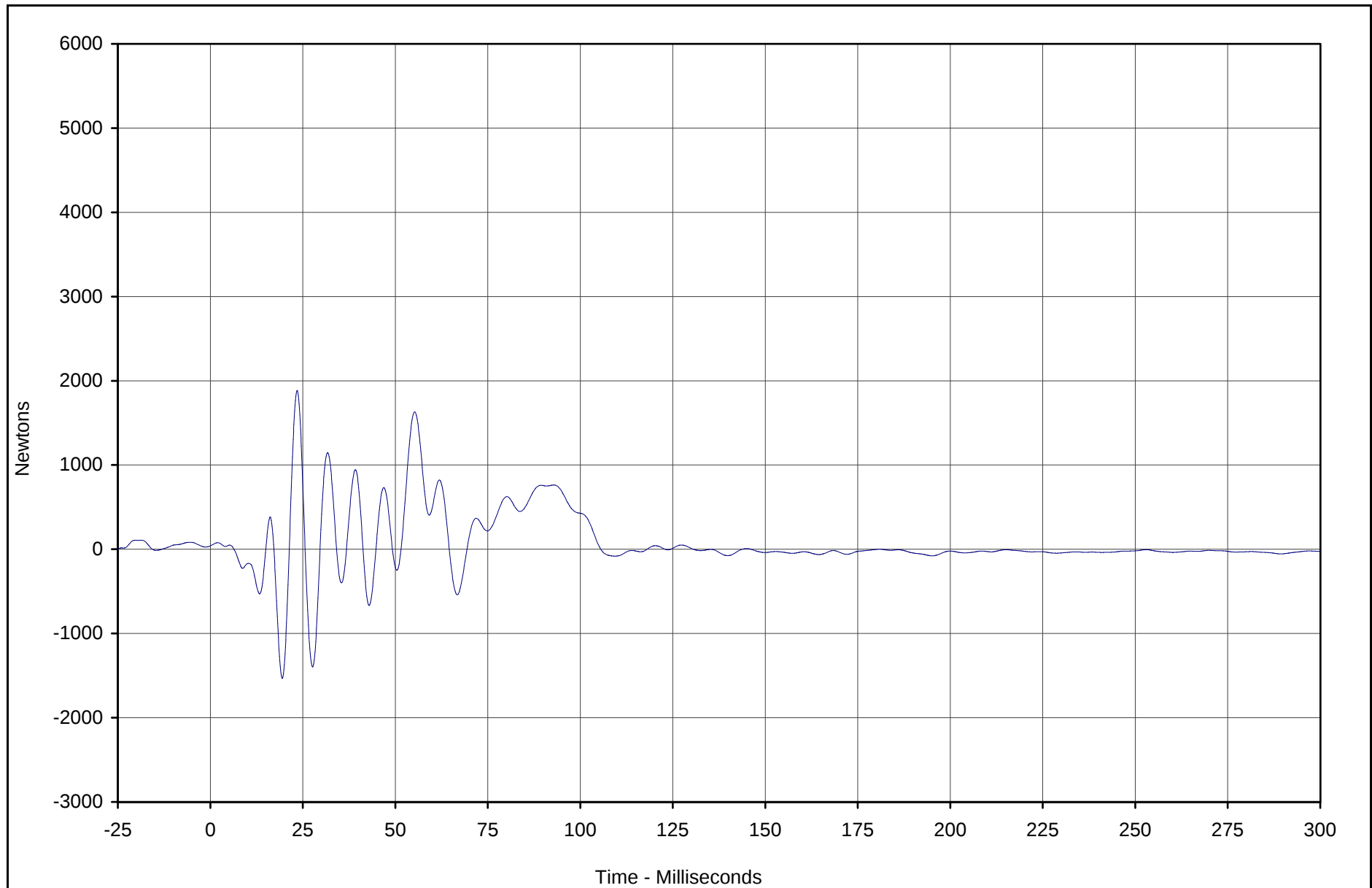
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

C-18



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force B9	115	FIL	Newtons	1885.2	23.5	-1534.1	19.4	60

Test Vehicle: 2003 Honda Pilot 4WD SUV

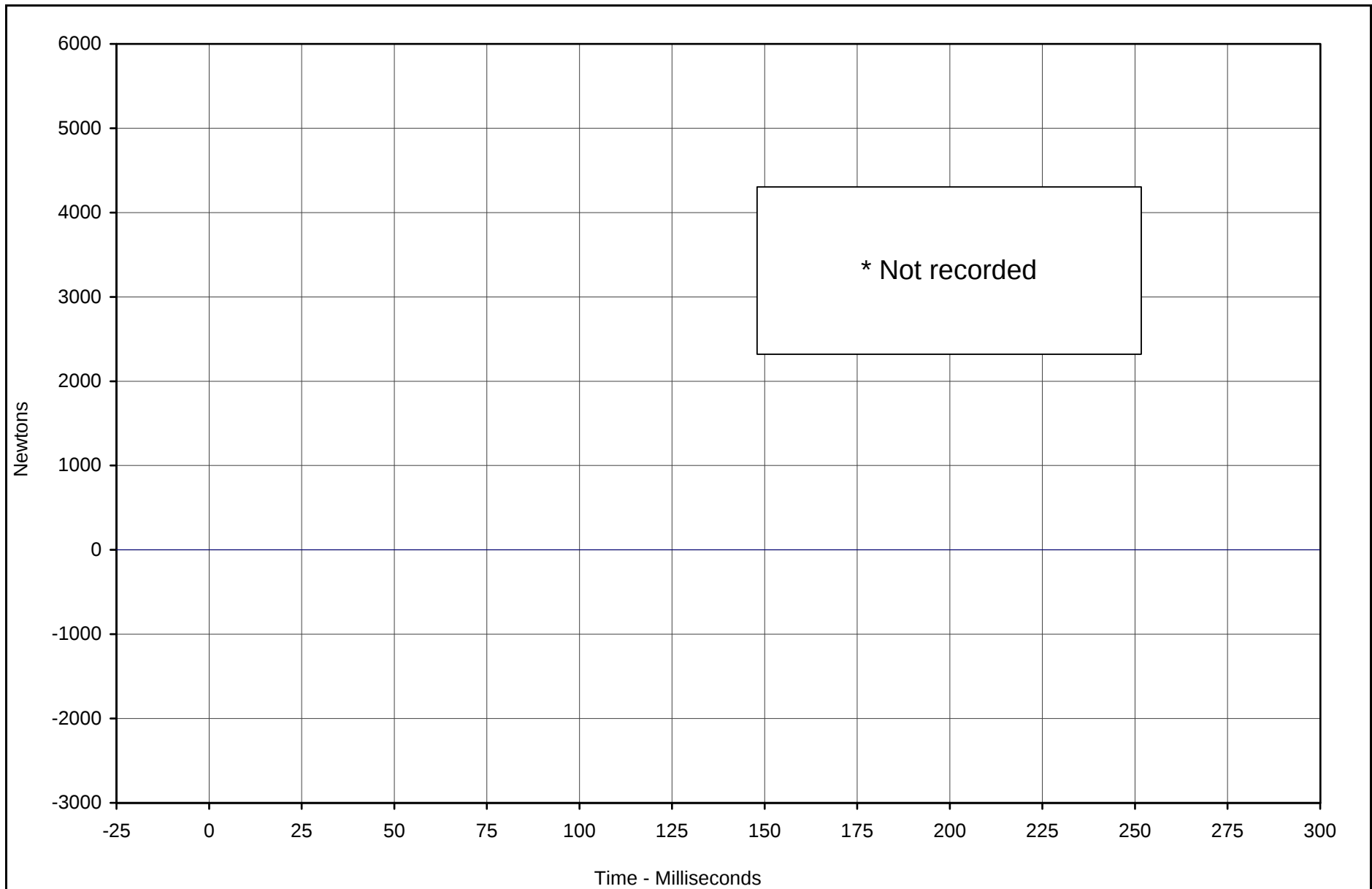
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



KAR22072-01



* Not recorded

Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force C1	116	FIL	Newtons	0.0	0.0	0.0	0.0	60



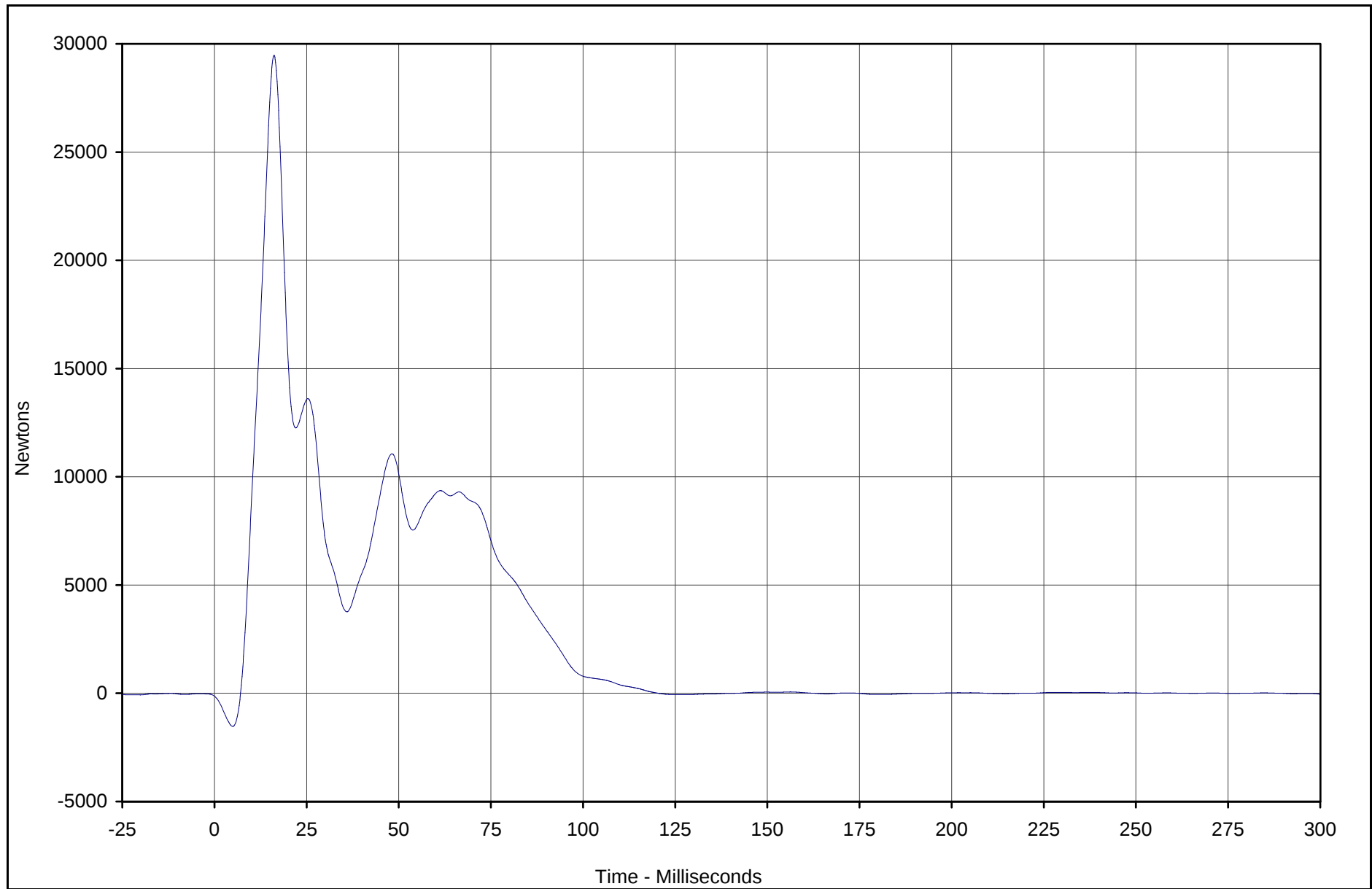
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

C-20



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force C2	117	FIL	Newtons	29467.7	16.2	-1533.1	5.0	60



Test Vehicle: 2003 Honda Pilot 4WD SUV

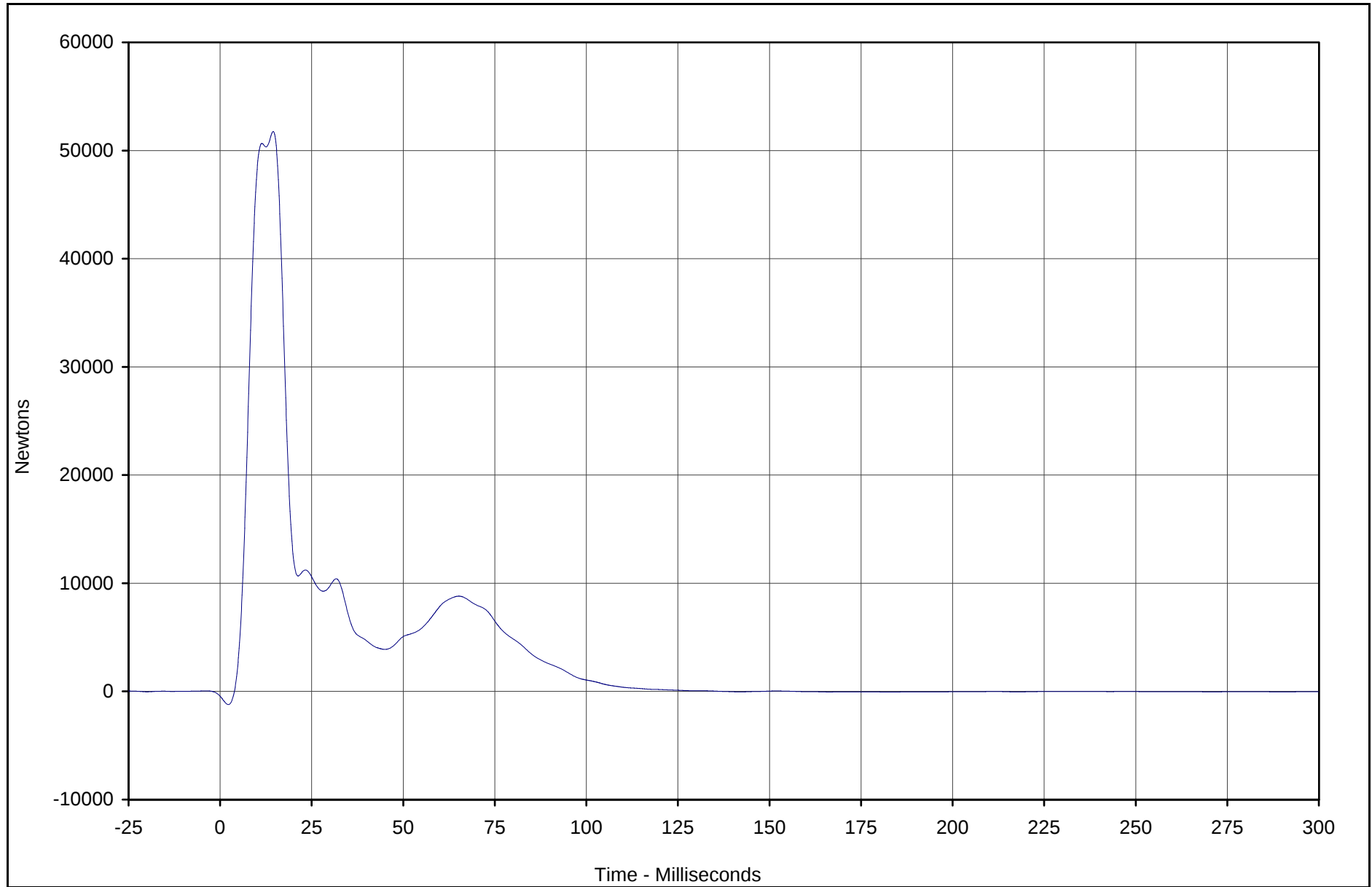
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

C-21



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force C3	118	FIL	Newtons	51774.1	14.5	-1219.5	2.2	60

Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

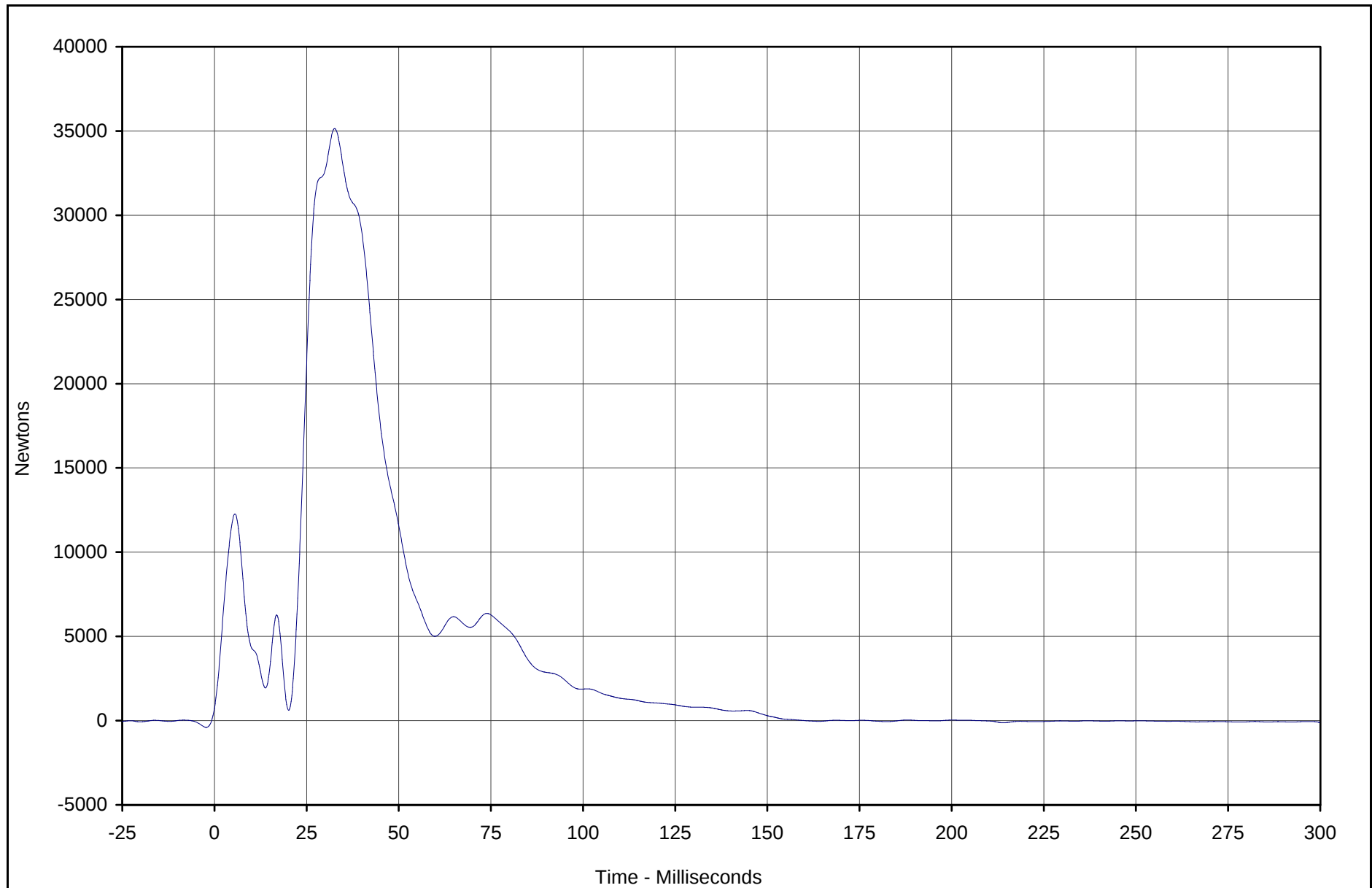
Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



KAR22072-01

C-22



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force C4	119	FIL	Newtons	35149.7	32.6	-130.2	214.0	60



Test Vehicle: 2003 Honda Pilot 4WD SUV

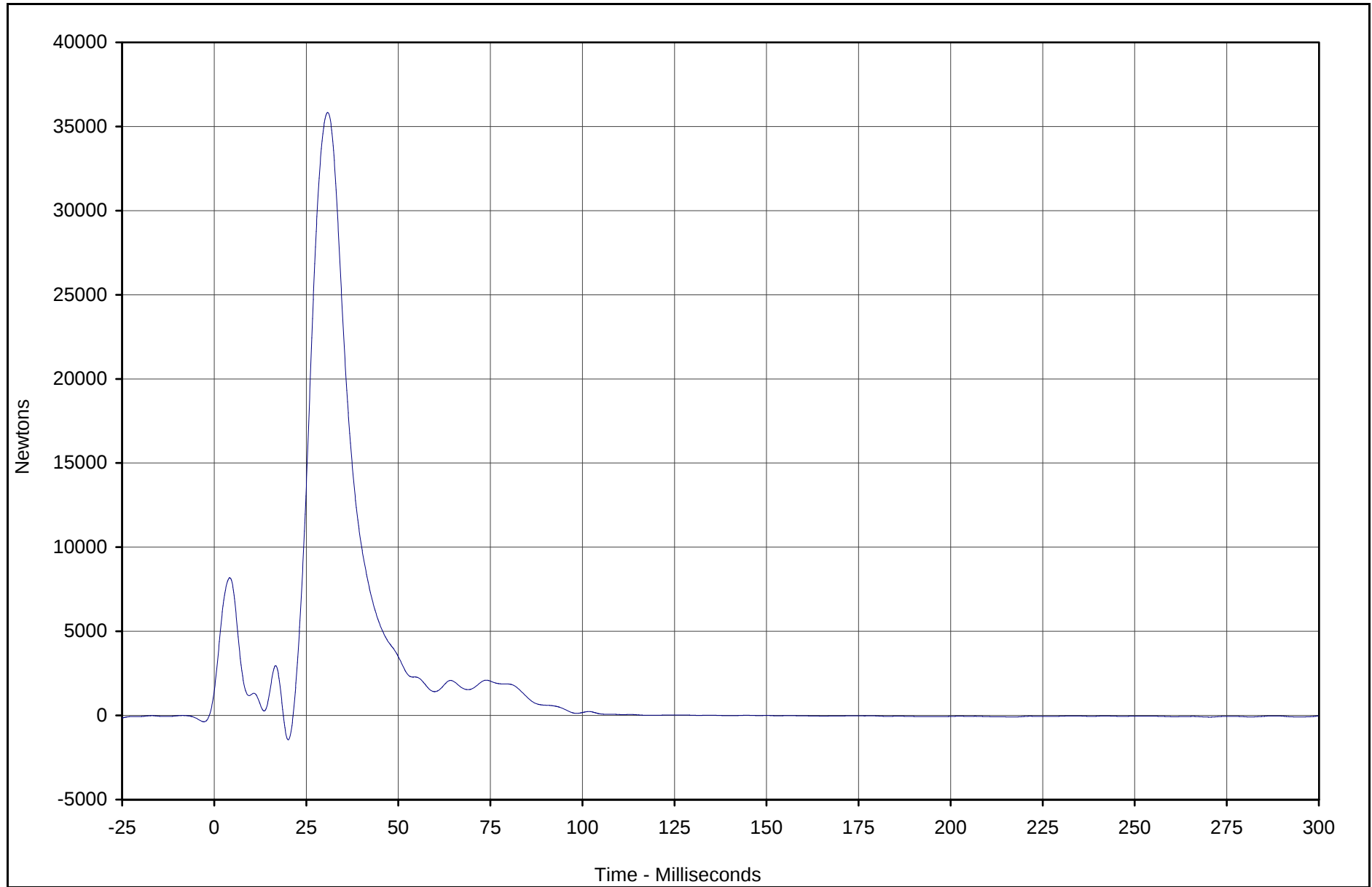
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

C-23



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force C5	120	FIL	Newtons	35837.6	30.8	-1452.0	20.1	60



Test Vehicle: 2003 Honda Pilot 4WD SUV

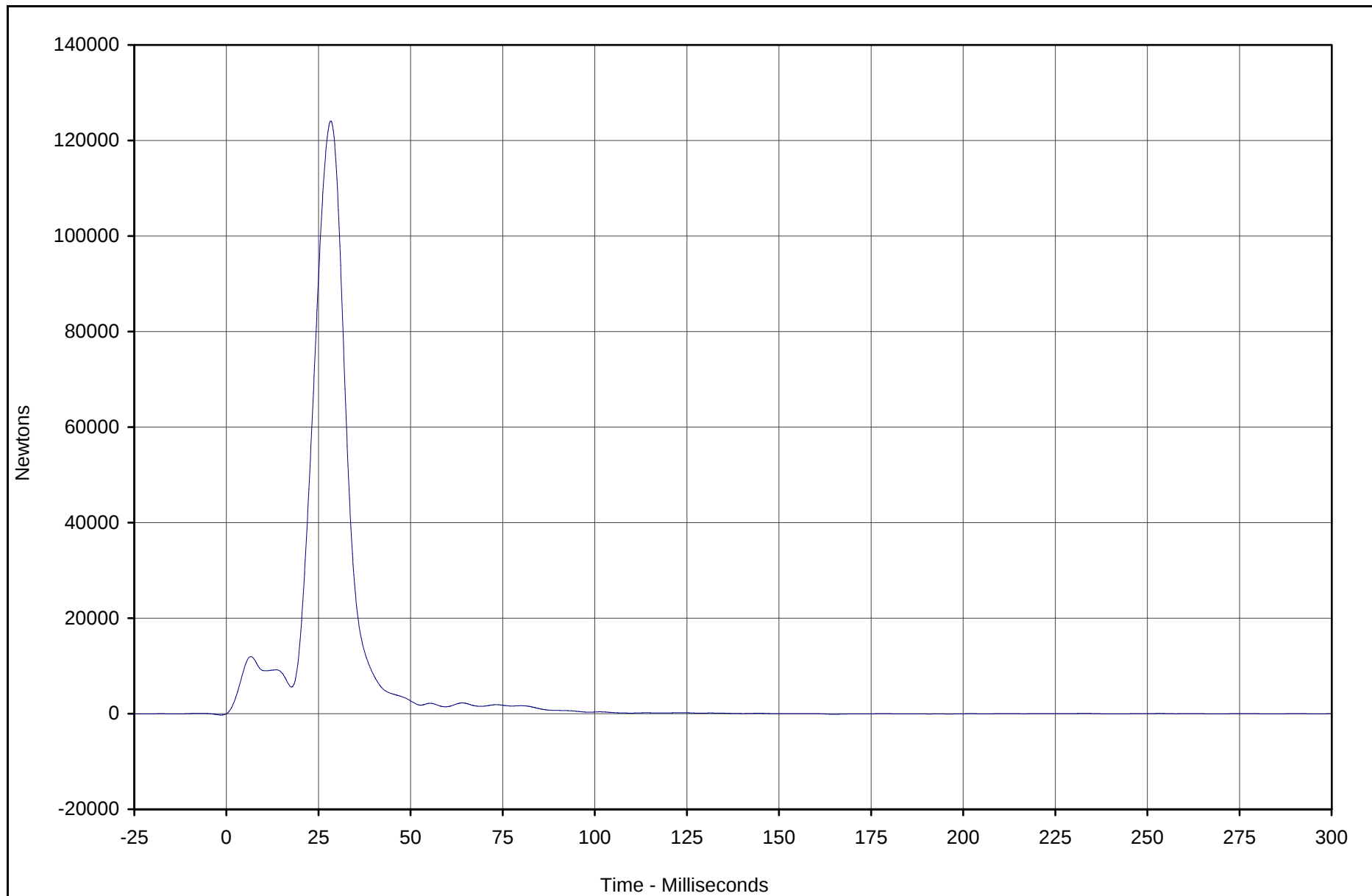
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

C-24



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force C6	121	FIL	Newtons	124076.4	28.3	-118.2	165.0	60



Test Vehicle: 2003 Honda Pilot 4WD SUV

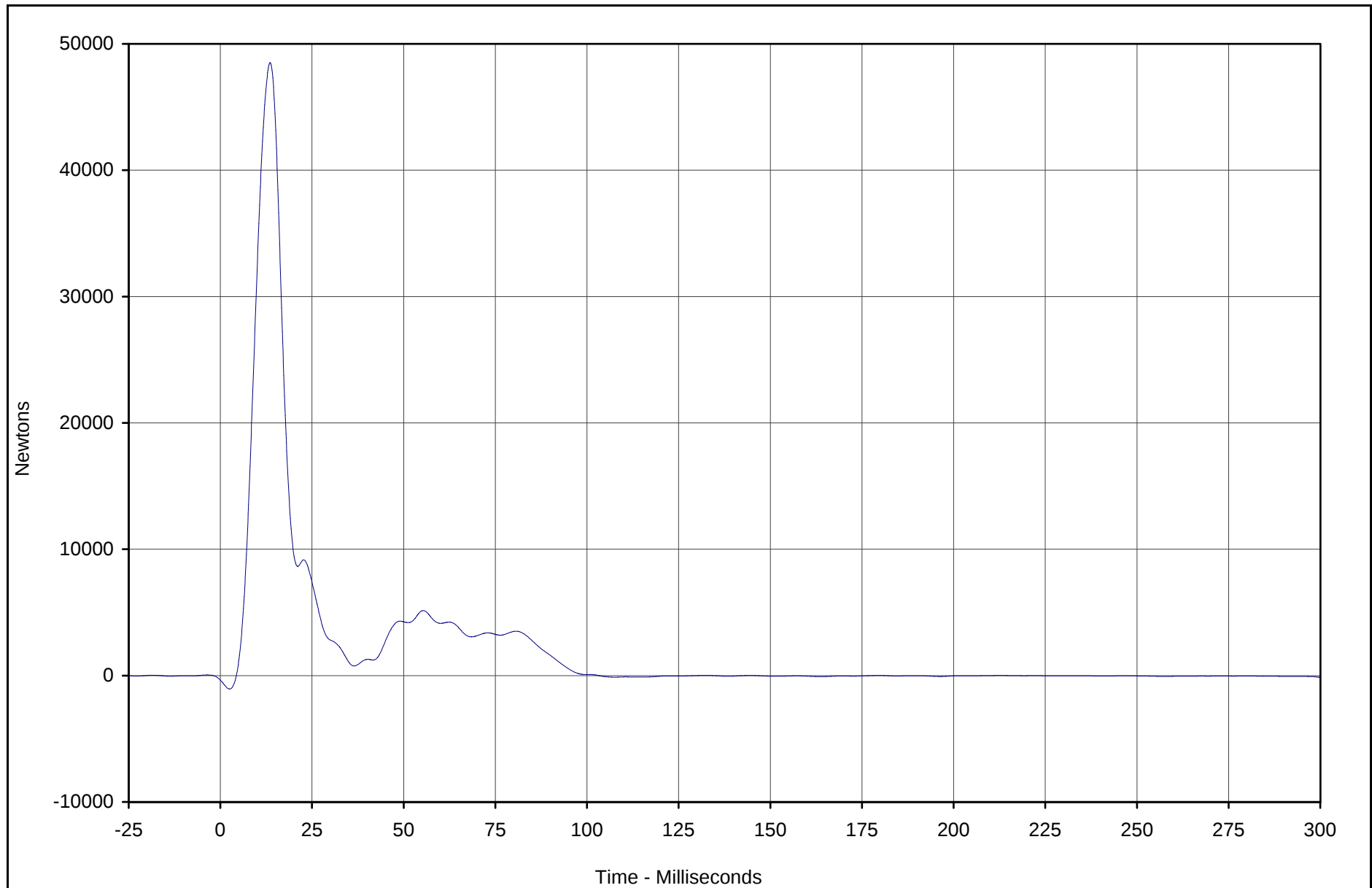
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

C-25



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force C7	122	FIL	Newtons	48520.4	13.6	-1061.8	2.5	60



Test Vehicle: 2003 Honda Pilot 4WD SUV

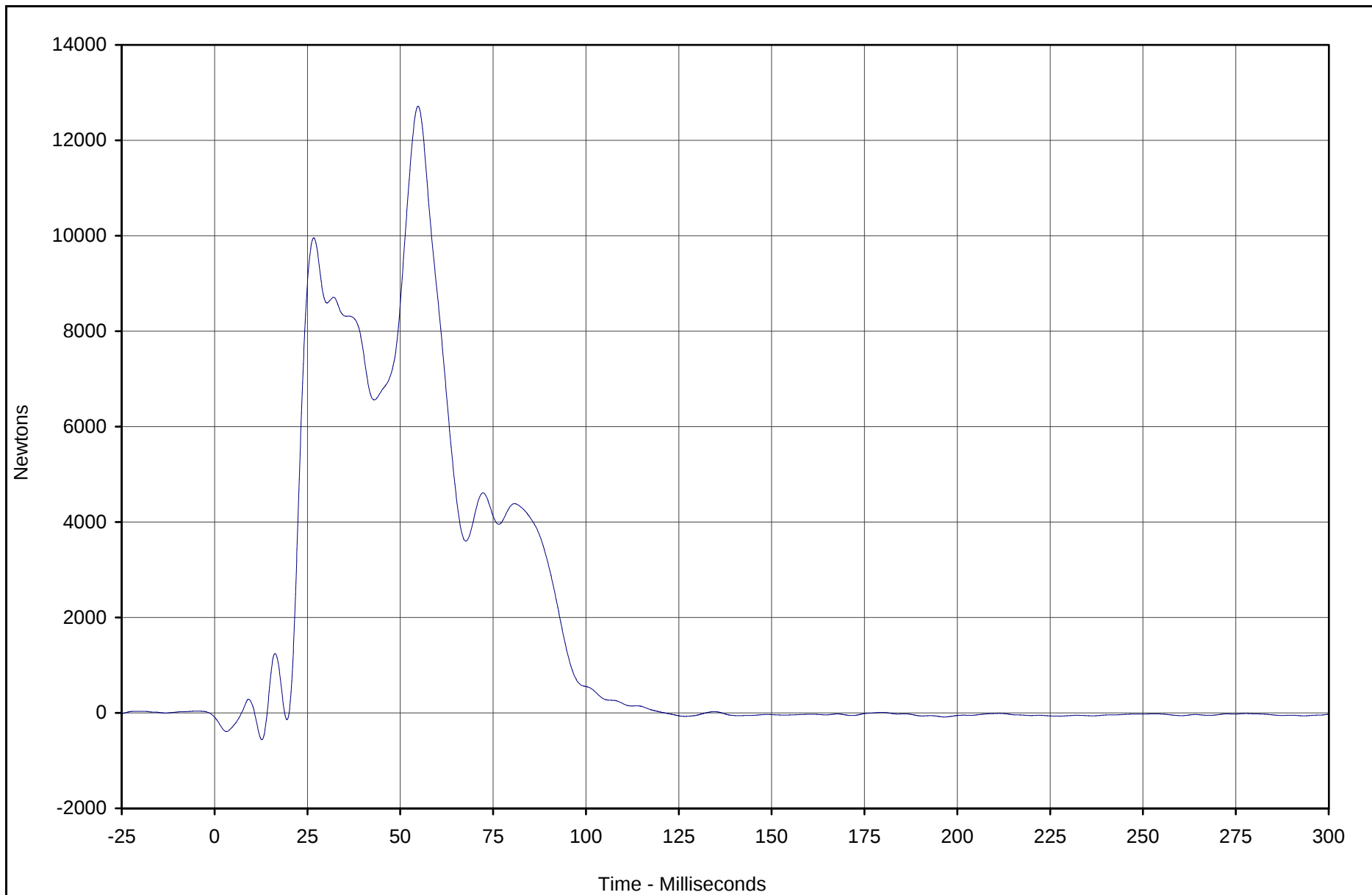
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

C-26



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force C8	123	FIL	Newtons	12715.7	54.8	-563.1	12.7	60

Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

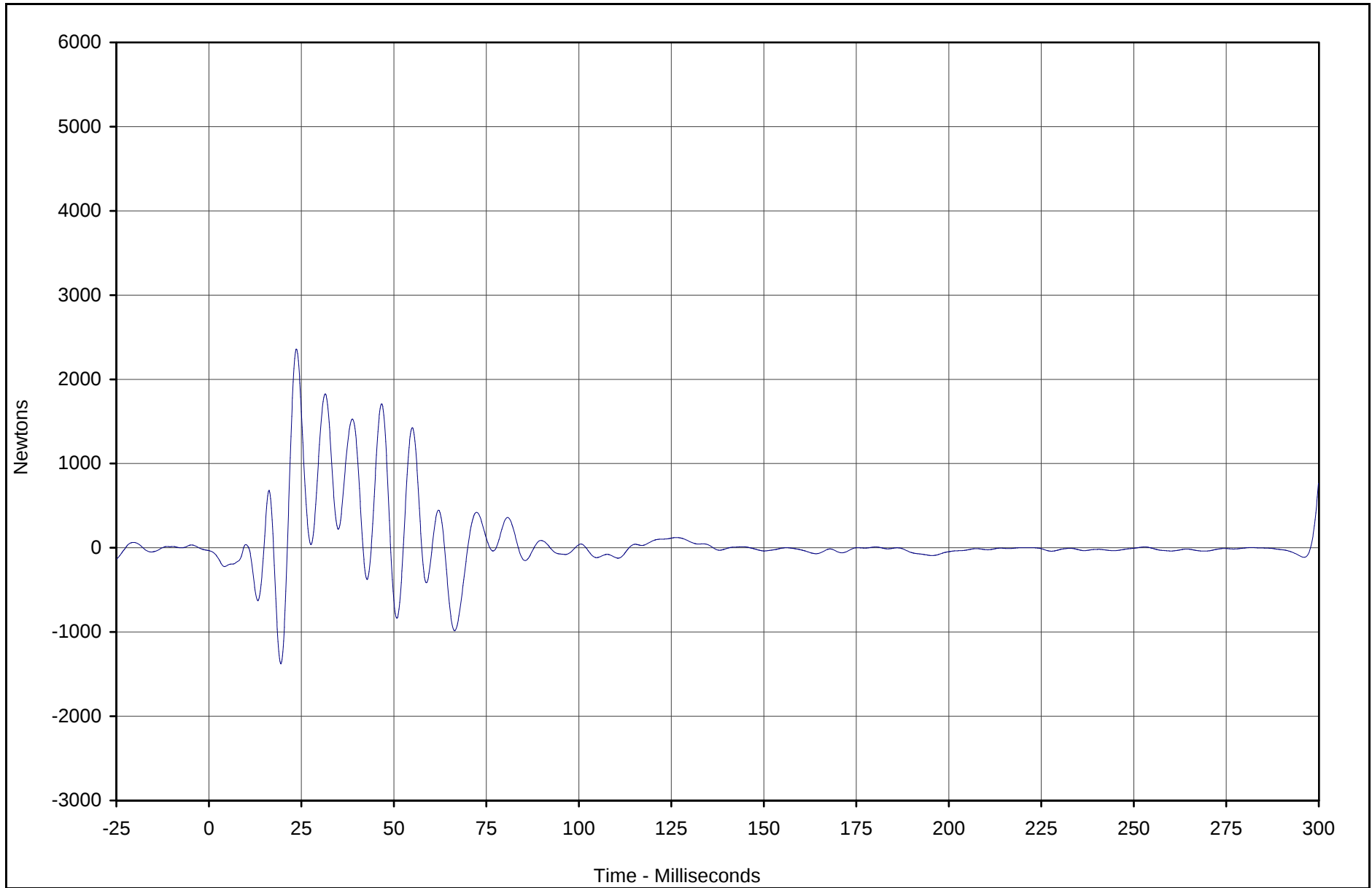
Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



KAR22072-01

C-27



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force C9	124	FIL	Newtons	2360.4	23.7	-1377.6	19.5	60

Test Vehicle: 2003 Honda Pilot 4WD SUV

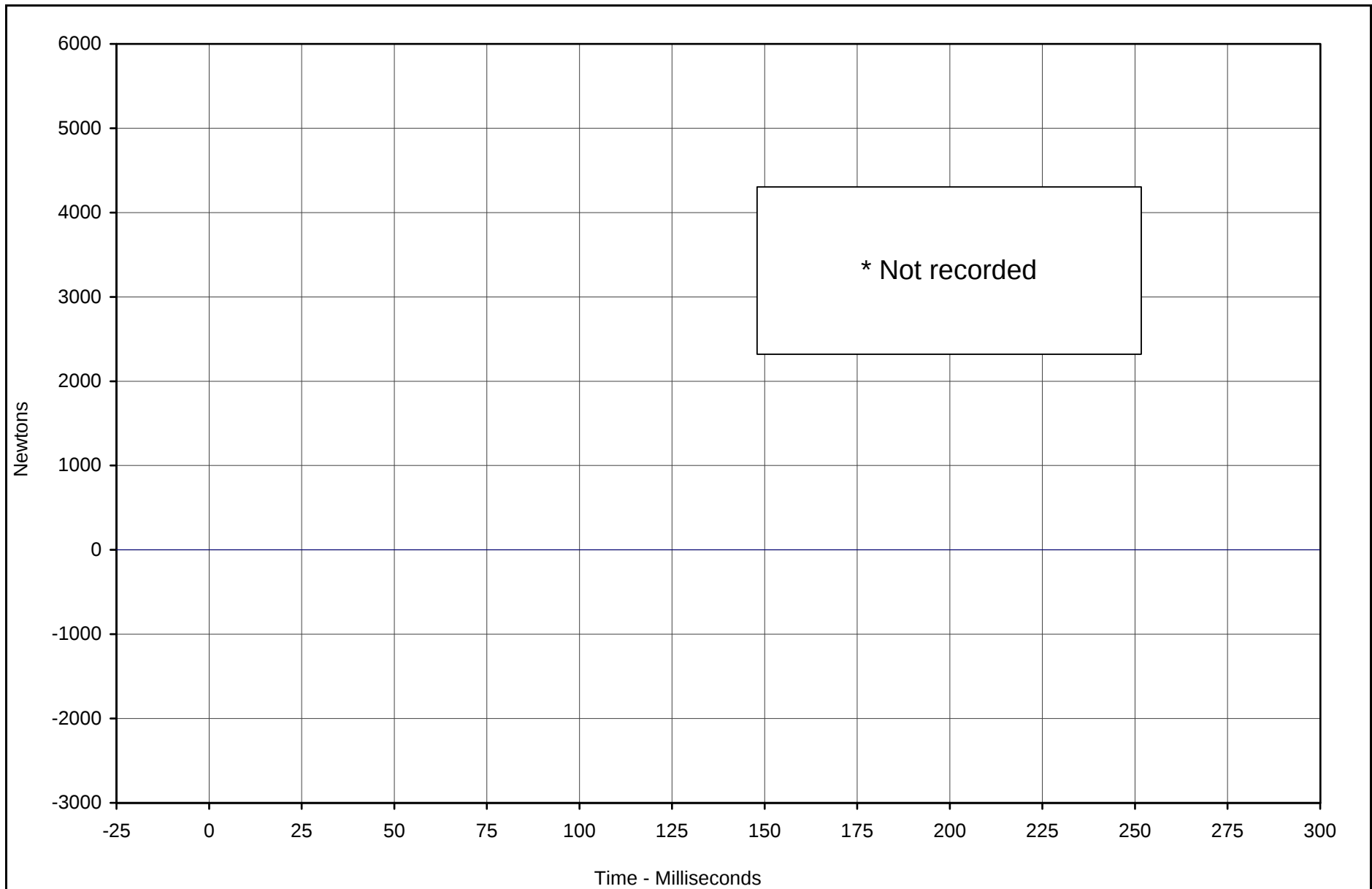
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



KAR22072-01



* Not recorded

Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force D1	125	FIL	Newtons	0.0	0.0	0.0	0.0	60



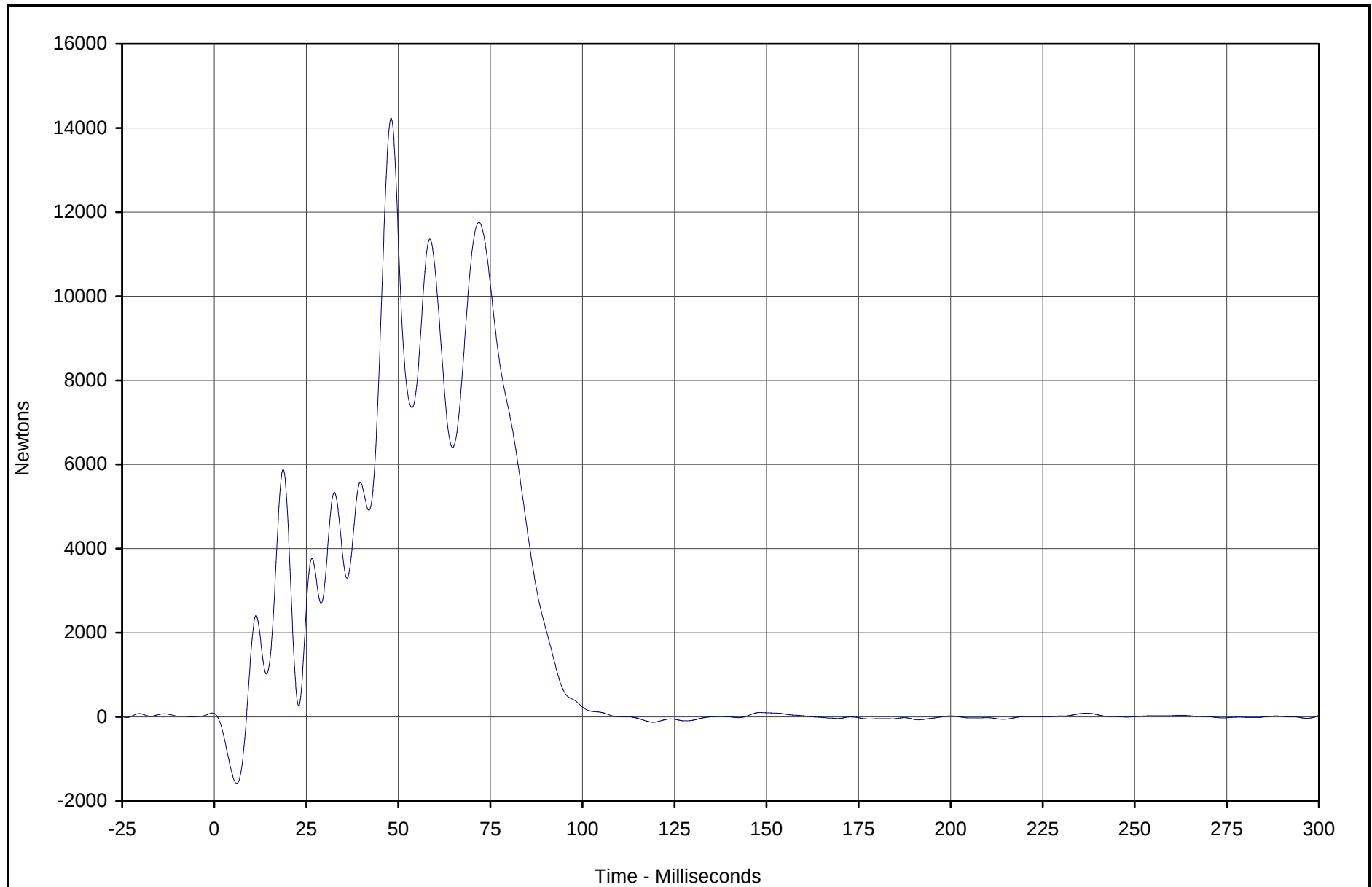
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

C-29



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force D2	126	FIL	Newtons	14234.2	48.0	-1578.7	6.1	60



Test Vehicle: 2003 Honda Pilot 4WD SUV

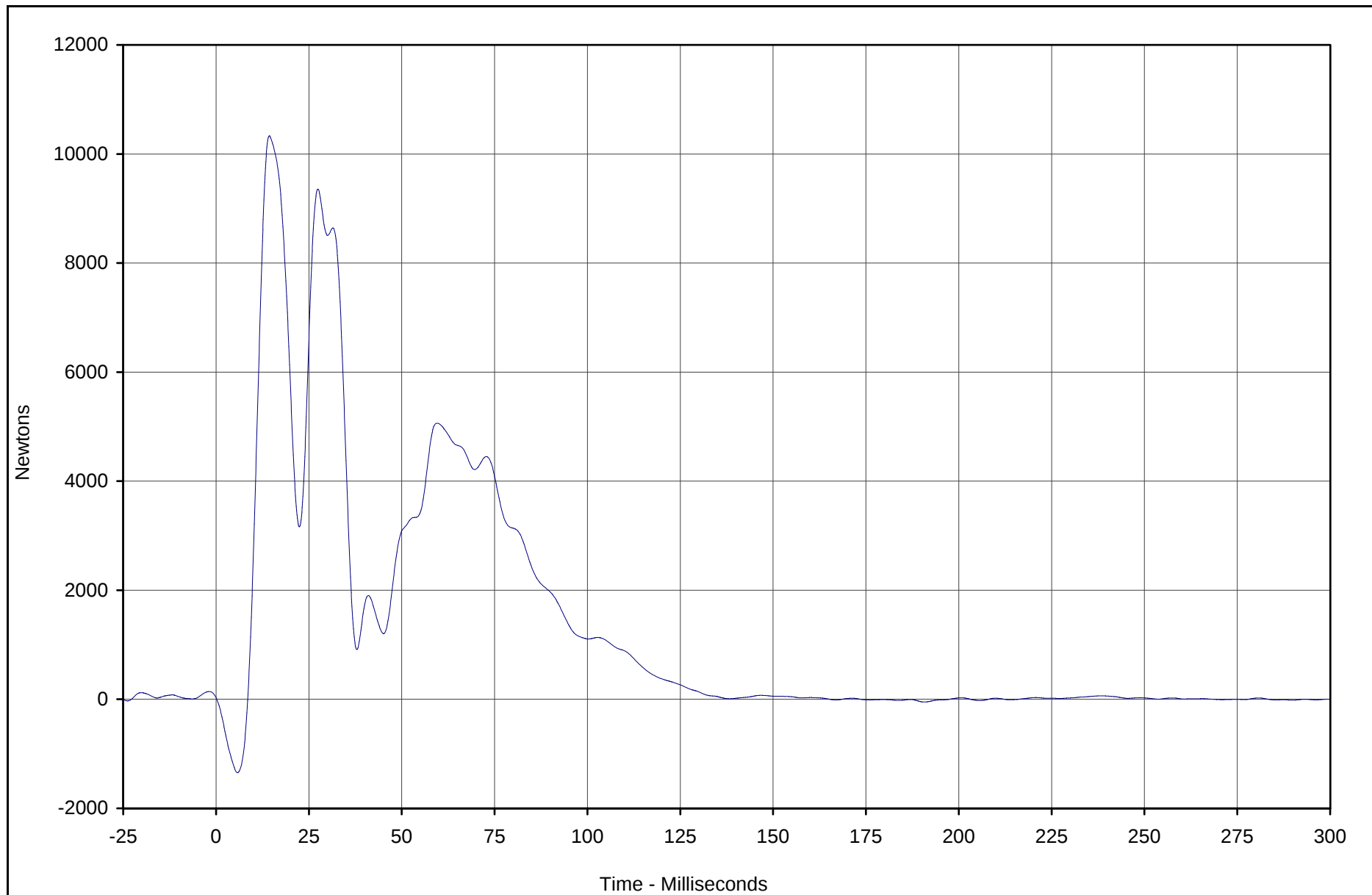
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

C-30



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force D3	127	FIL	Newtons	10333.1	14.3	-1346.3	5.8	60



Test Vehicle: 2003 Honda Pilot 4WD SUV

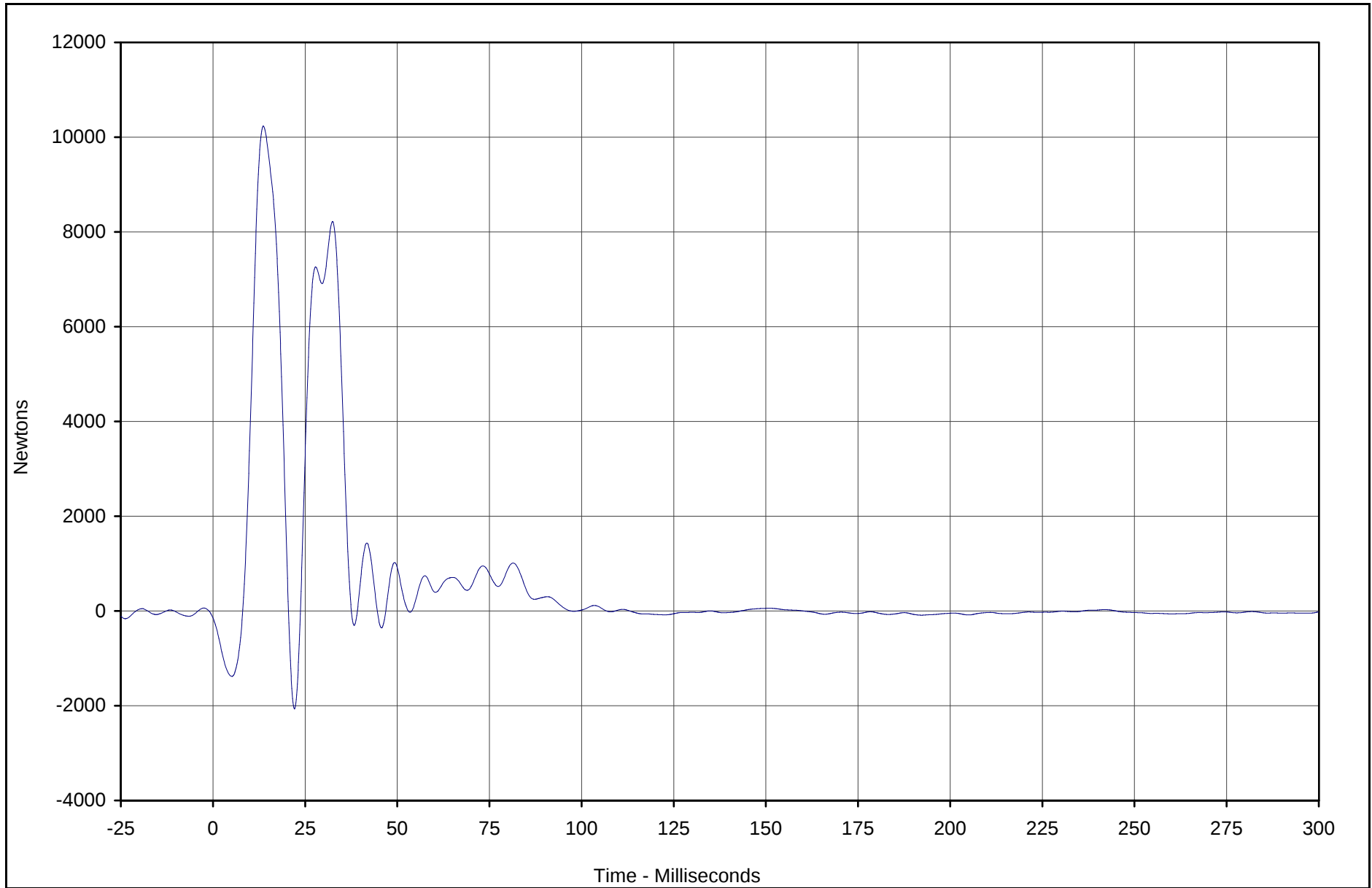
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

C-31



Curve Description	CURN0	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force D4	128	FIL	Newtons	10233.4	13.7	-2069.5	22.1	60



Test Vehicle: 2003 Honda Pilot 4WD SUV

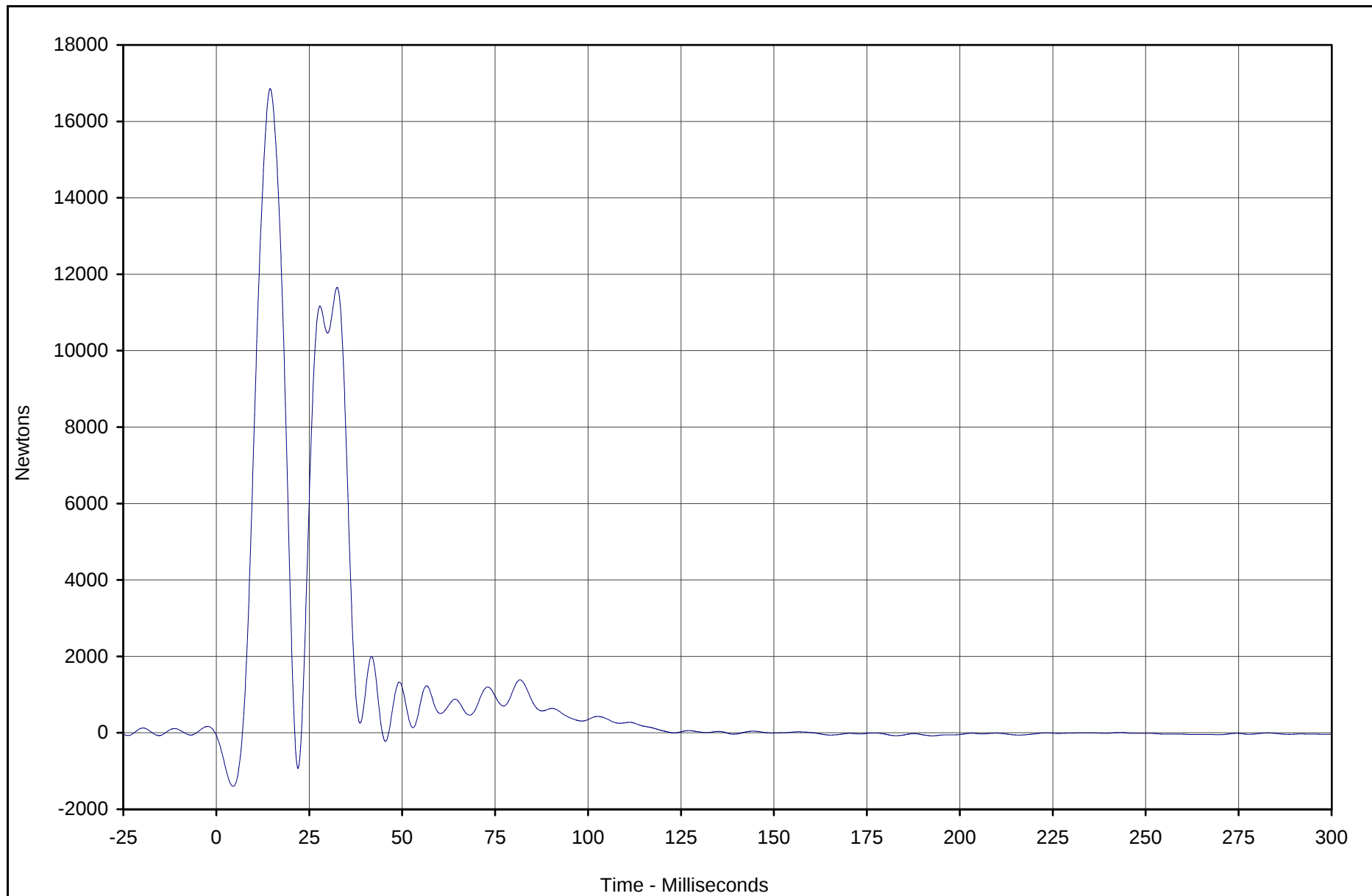
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

C-32



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force D5	129	FIL	Newtons	16861.3	14.5	-1397.7	4.5	60

Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

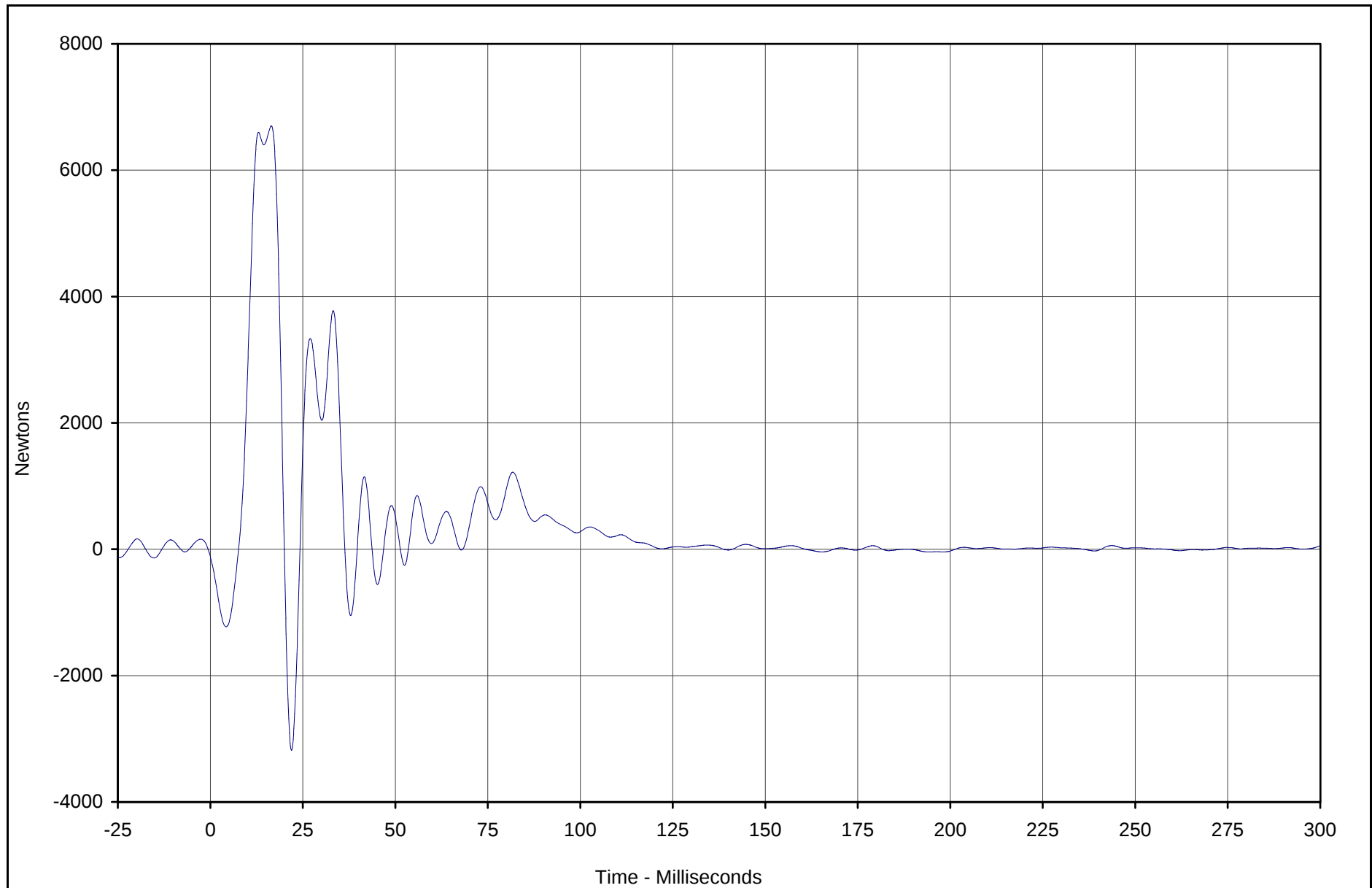
Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



KAR22072-01

C-33



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force D6	130	FIL	Newtons	6702.5	16.5	-3180.3	21.9	60



Test Vehicle: 2003 Honda Pilot 4WD SUV

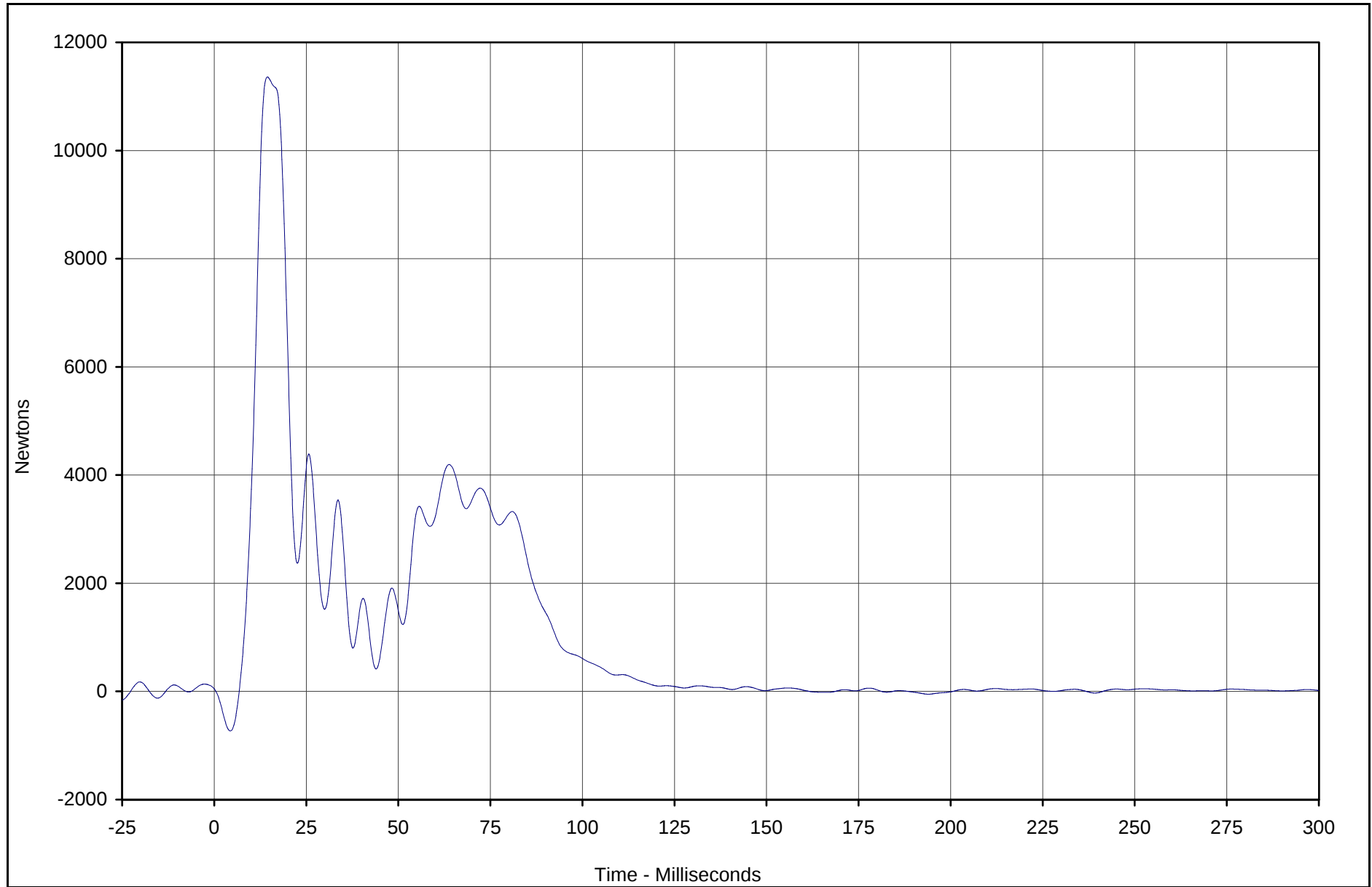
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

C-34



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force D7	131	FIL	Newtons	11361.0	14.5	-731.1	4.4	60



Test Vehicle: 2003 Honda Pilot 4WD SUV

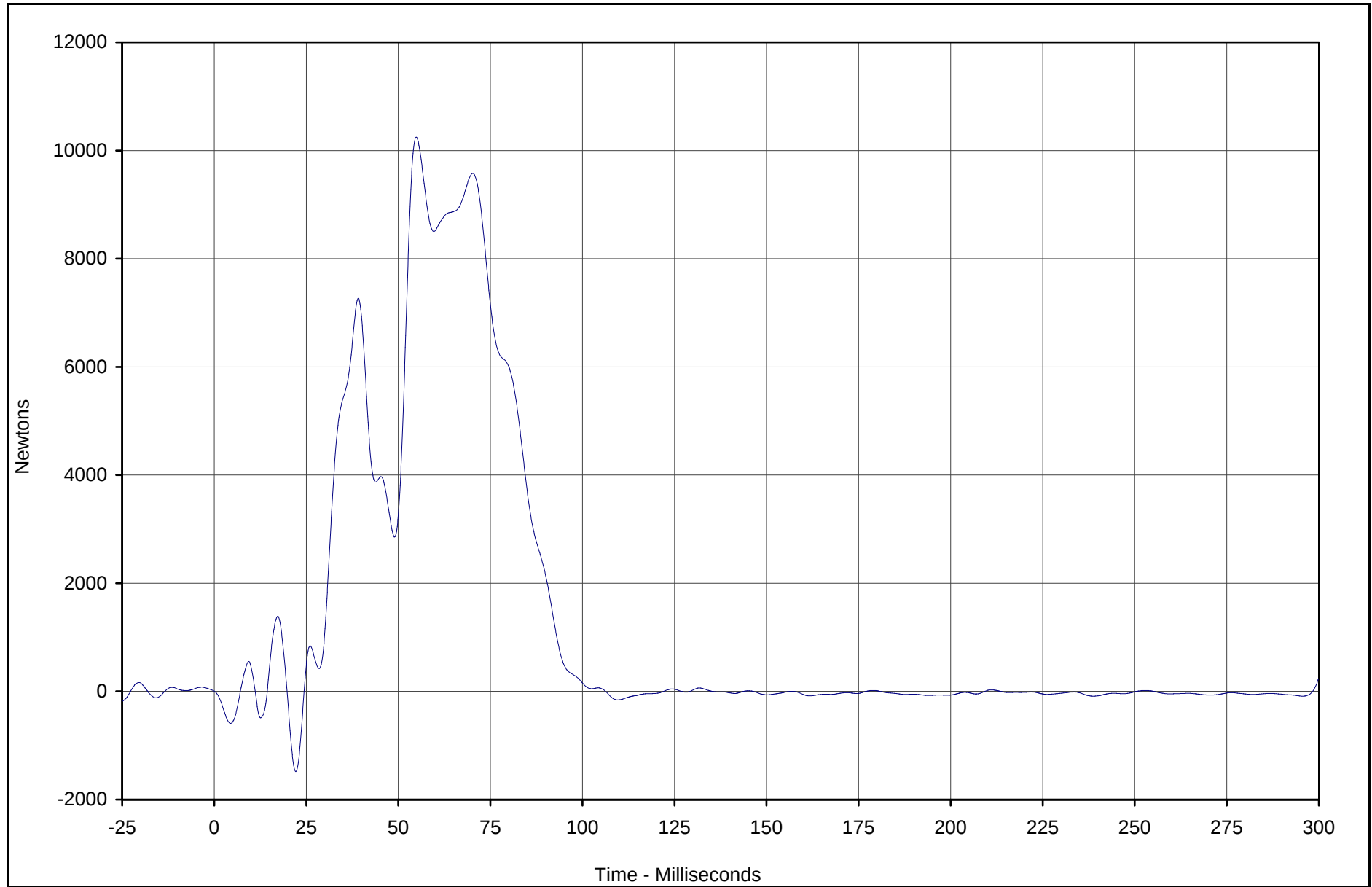
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

C-35



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force D8	132	FIL	Newtons	10247.7	54.9	-1484.0	22.2	60



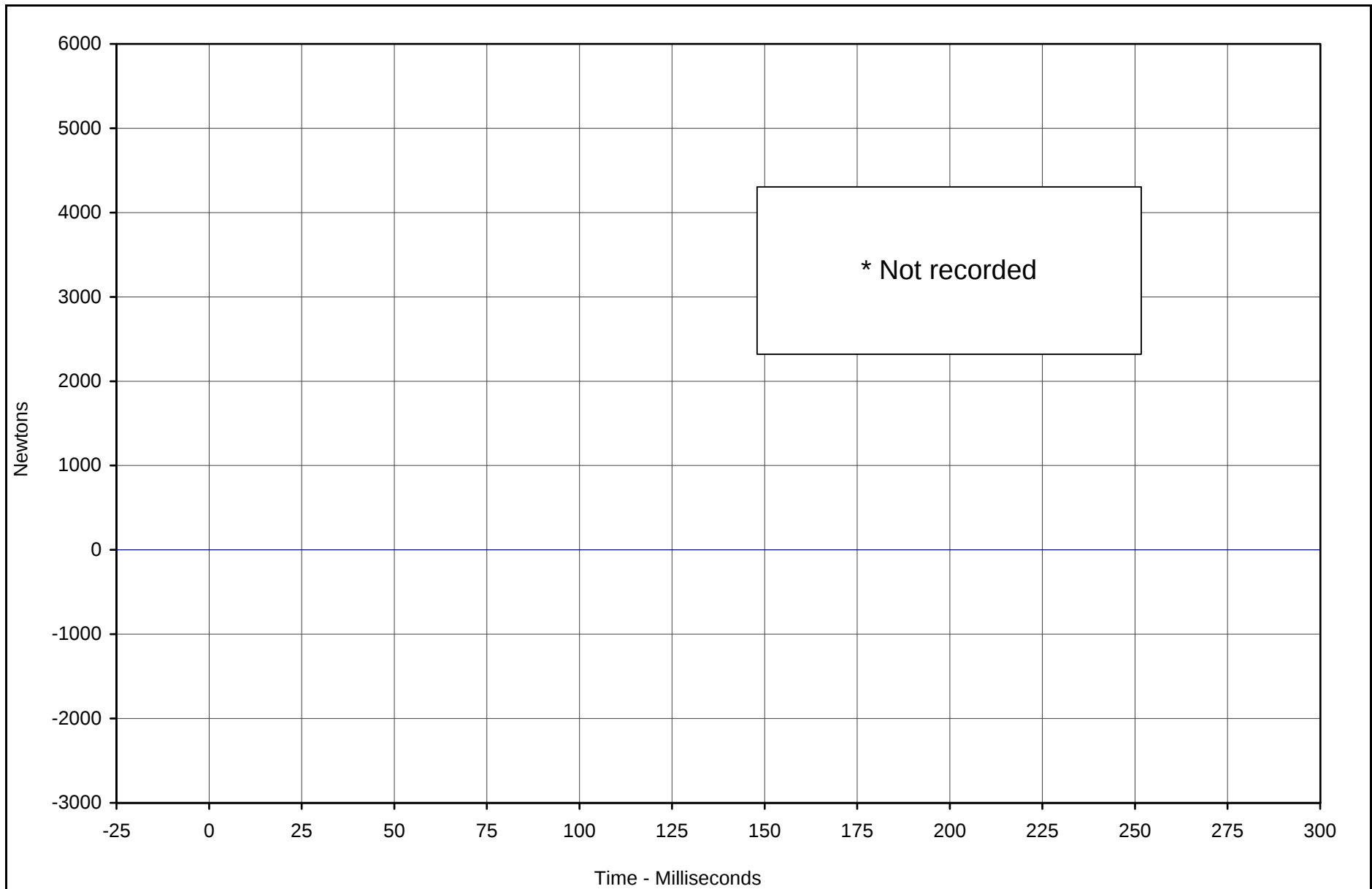
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01



* Not recorded

Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force D9	133	FIL	Newtons	0.0	0.0	0.0	0.0	60



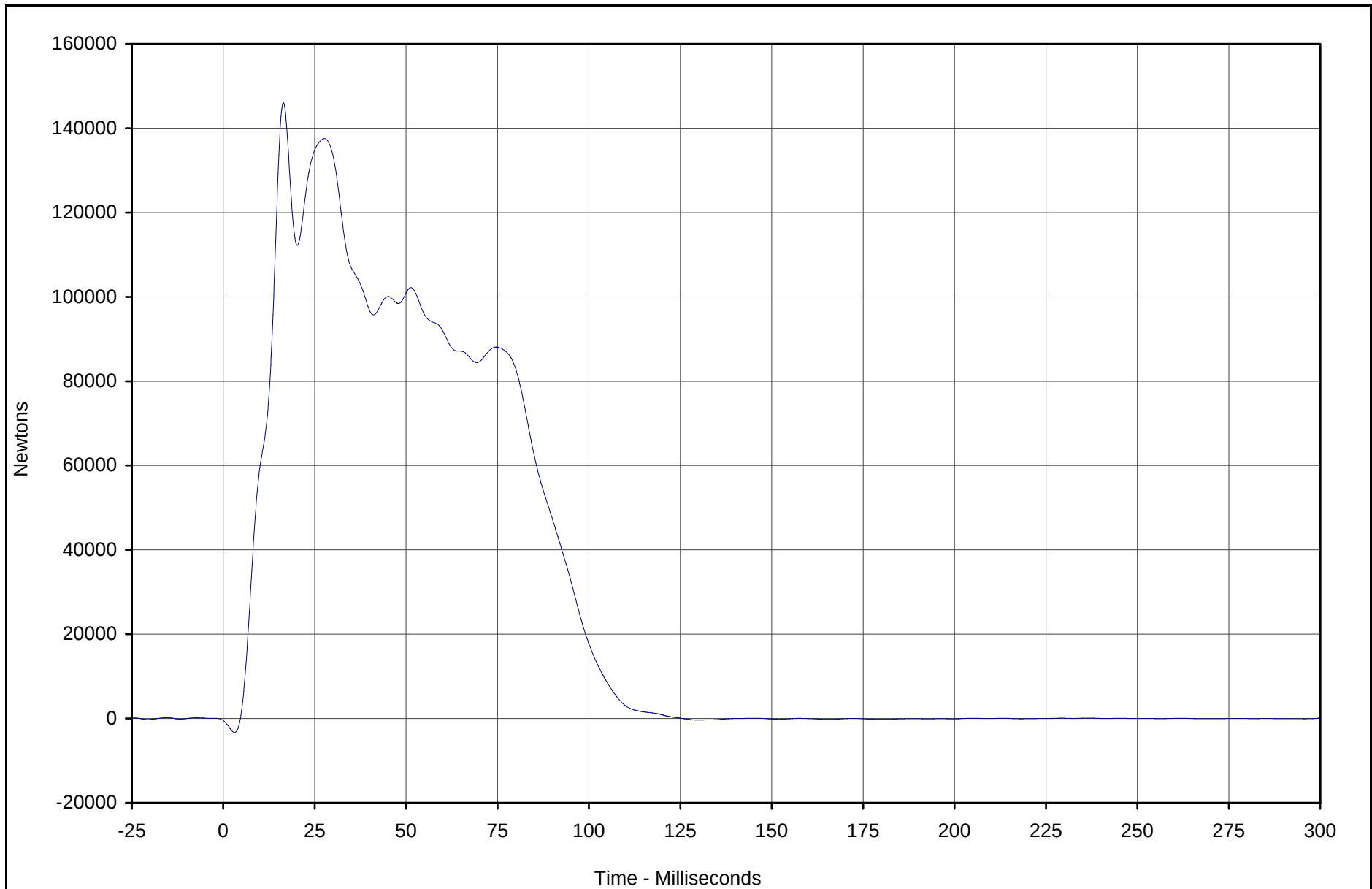
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

C-37



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force Sum Group 1	001	SUM	Newtons	146078.3	16.4	-3324.6	3.1	60

Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

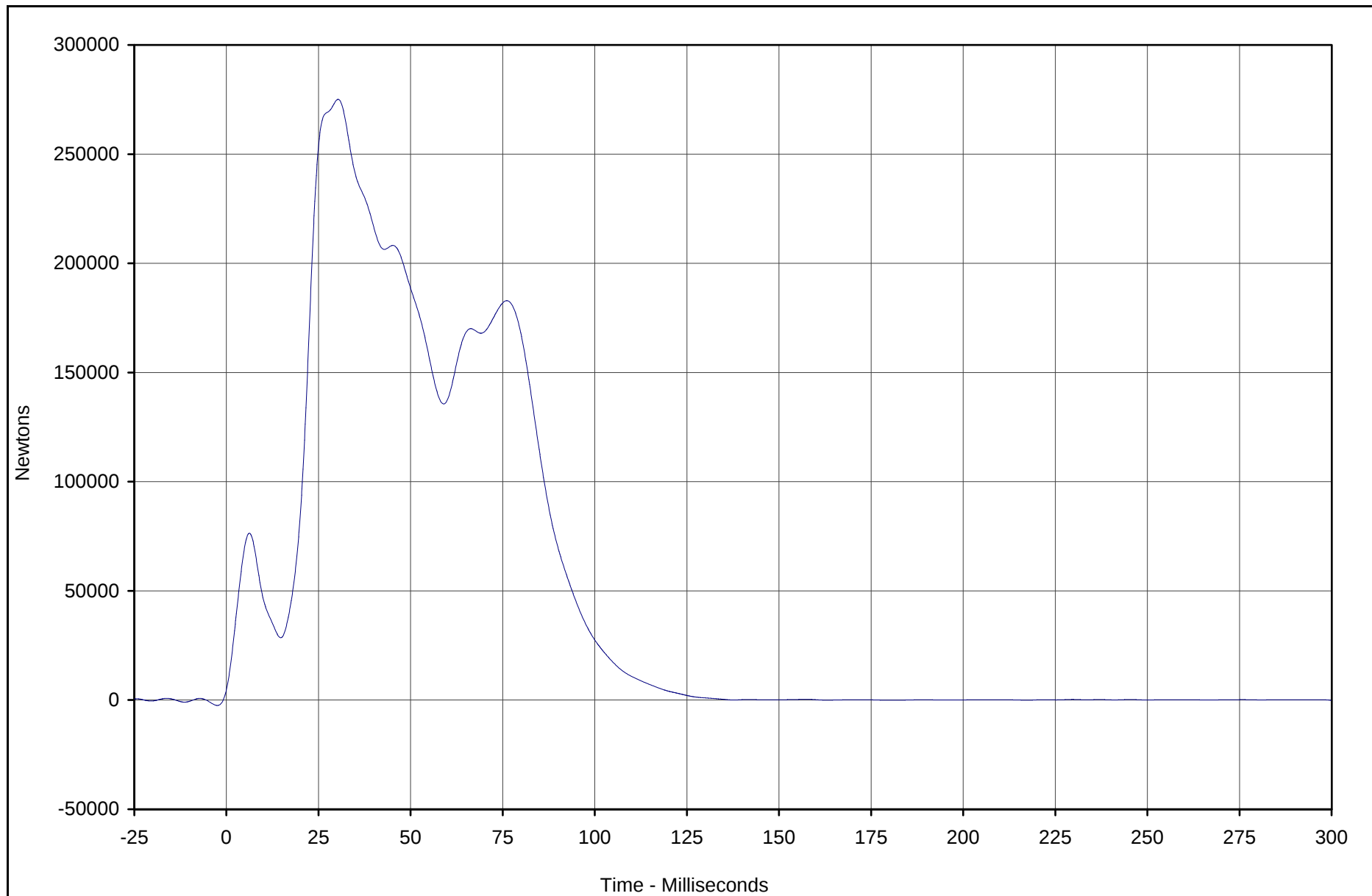
Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



KAR22072-01

C-38



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force Sum Group 2	002	SUM	Newtons	275098.0	30.3	-131.9	299.9	60

Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

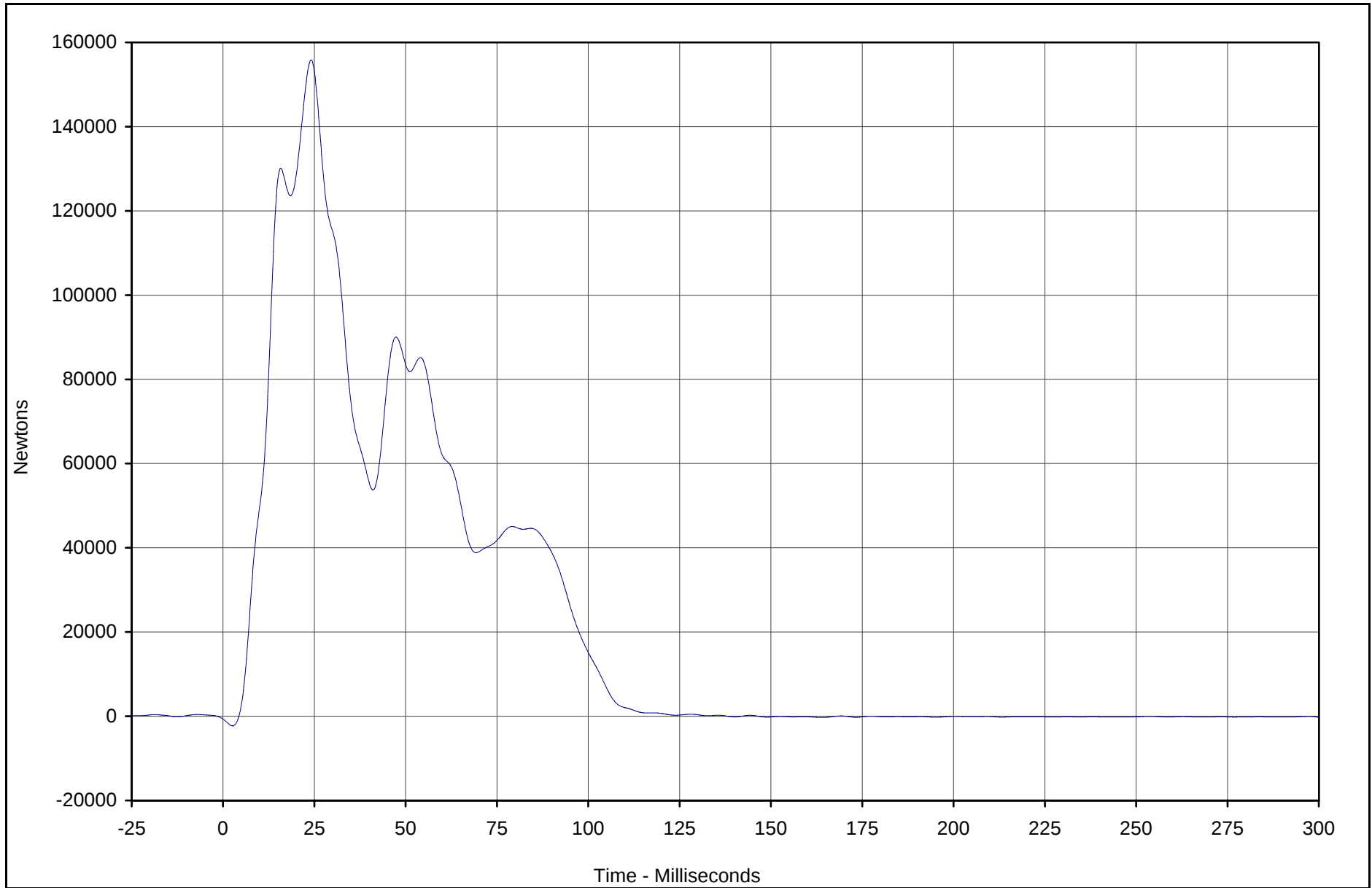
Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



KAR22072-01

C-39



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force Sum Group 3	003	SUM	Newtons	155854.9	24.1	-2284.6	2.6	60

Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

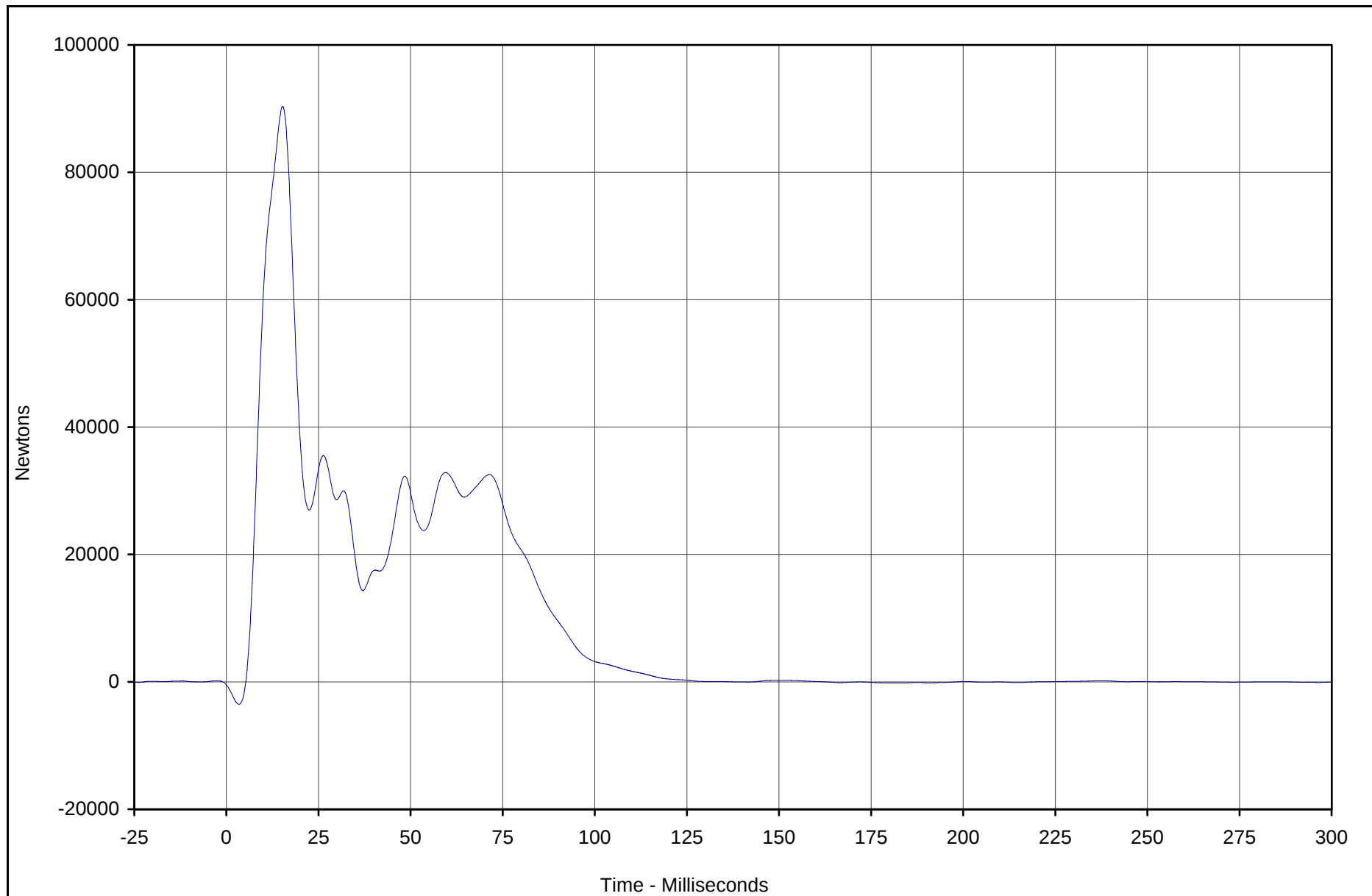
Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



KAR22072-01

C-40



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force Sum Group 4	004	SUM	Newtons	90355.0	15.3	-3524.4	3.4	60



Test Vehicle: 2003 Honda Pilot 4WD SUV

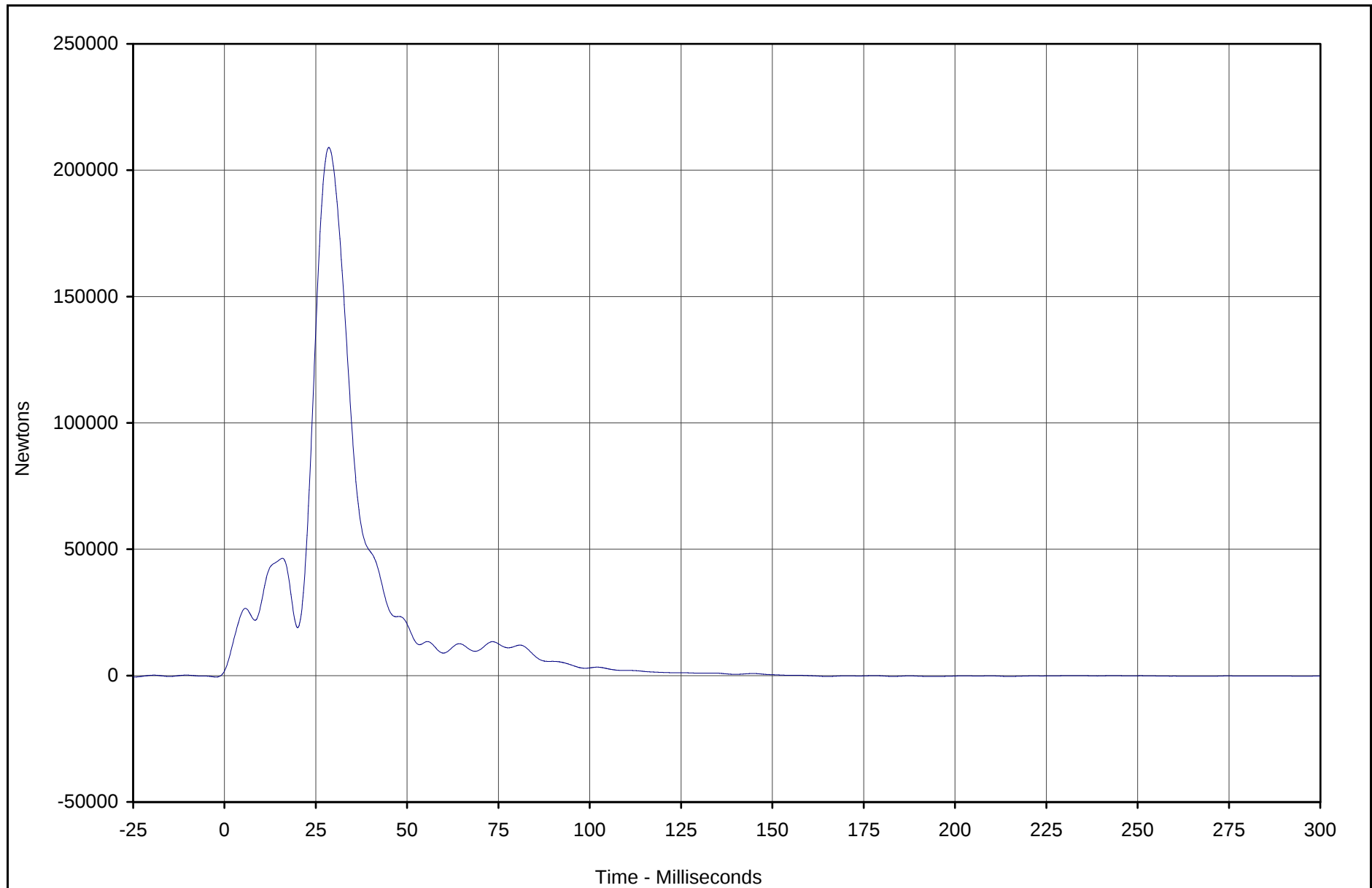
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

C-41



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force Sum Group 5	005	SUM	Newtons	208996.8	28.6	-359.6	165.1	60



Test Vehicle: 2003 Honda Pilot 4WD SUV

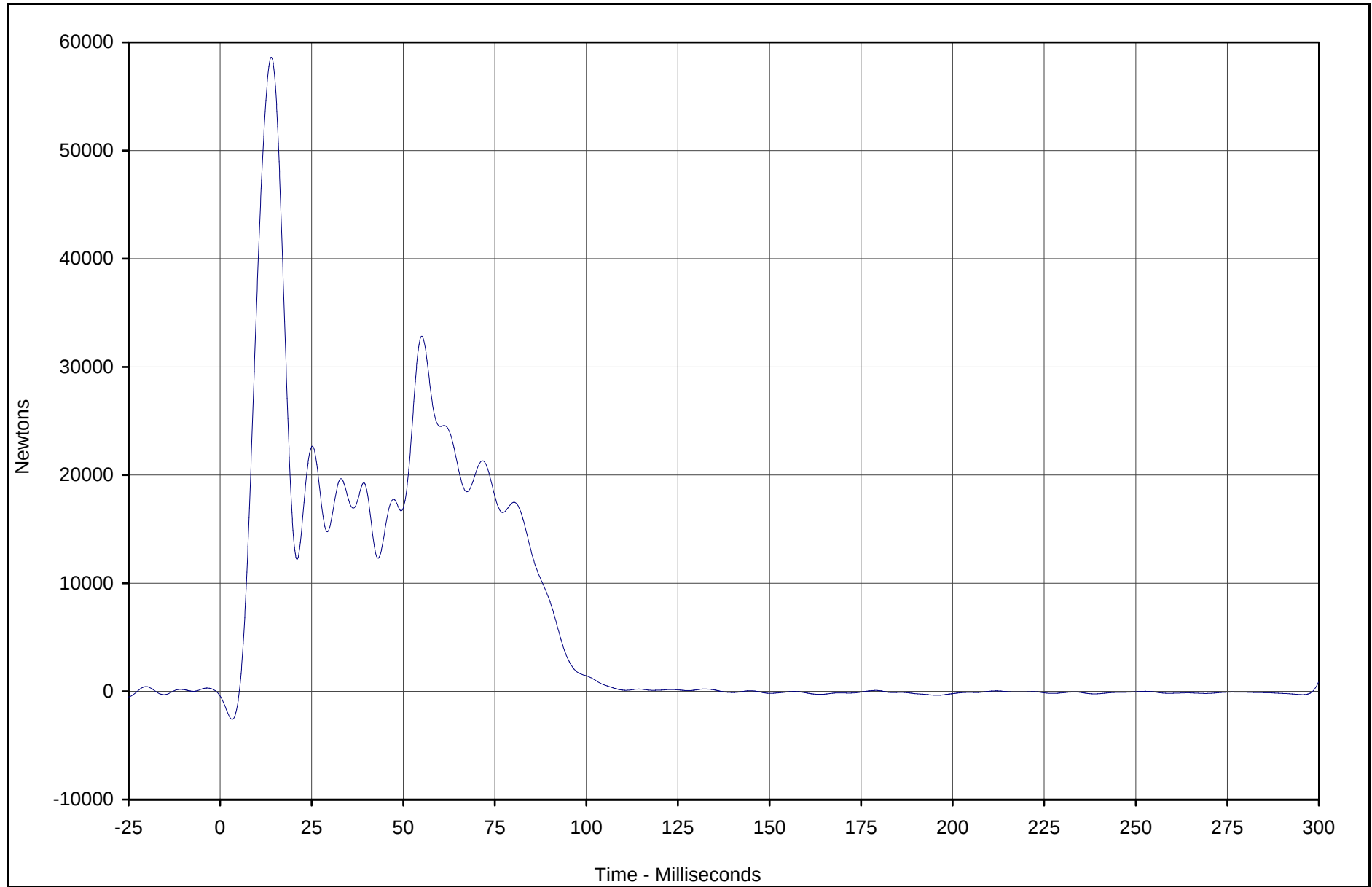
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

C-42



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force Sum Group 6	006	SUM	Newtons	58620.1	14.0	-2580.5	3.3	60



Test Vehicle: 2003 Honda Pilot 4WD SUV

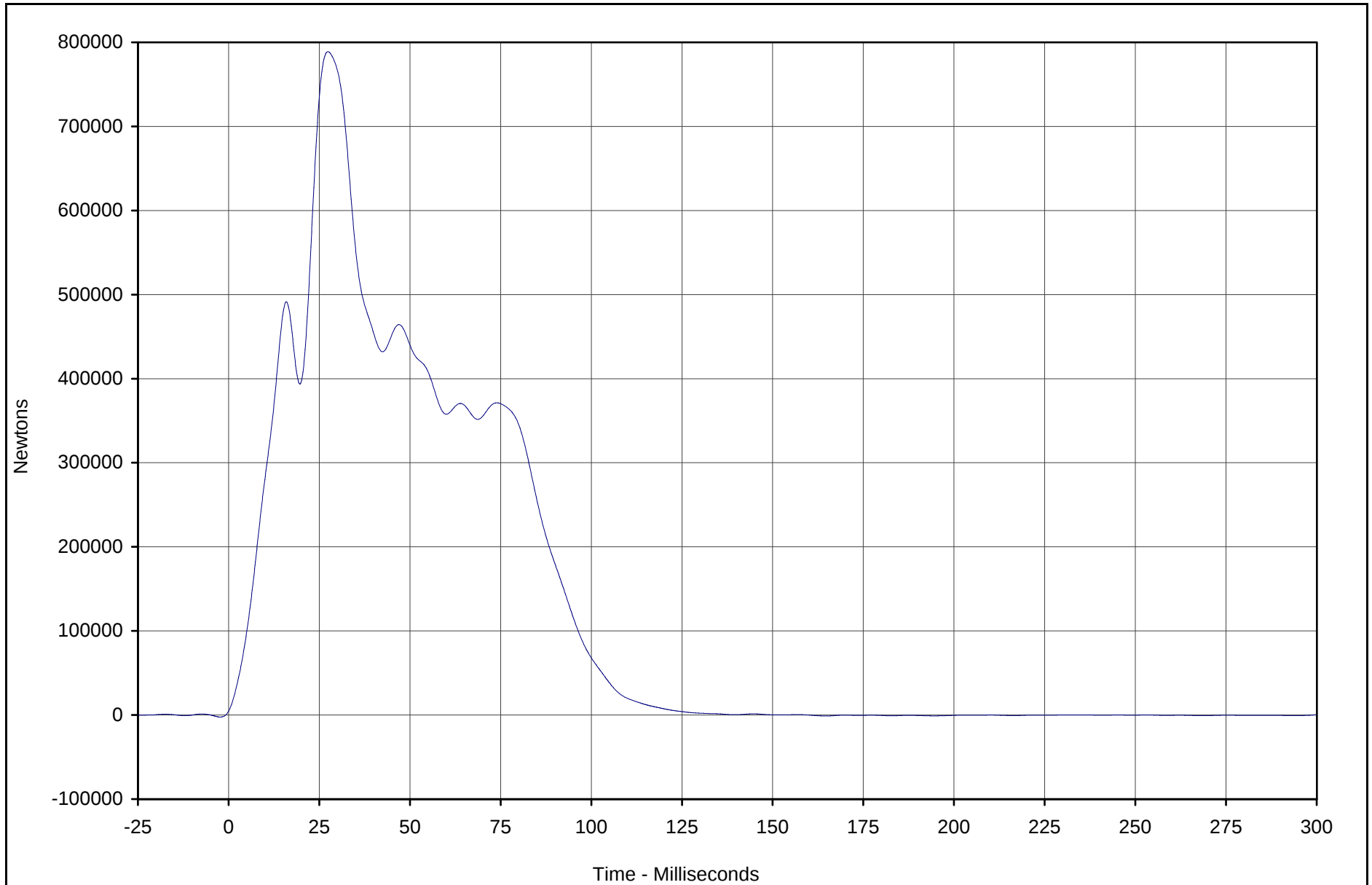
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

C-43



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Barrier Force Total Sum	007	SUM	Newtons	788950	27.4	-1154.9	164.7	60



Test Vehicle: 2003 Honda Pilot 4WD SUV

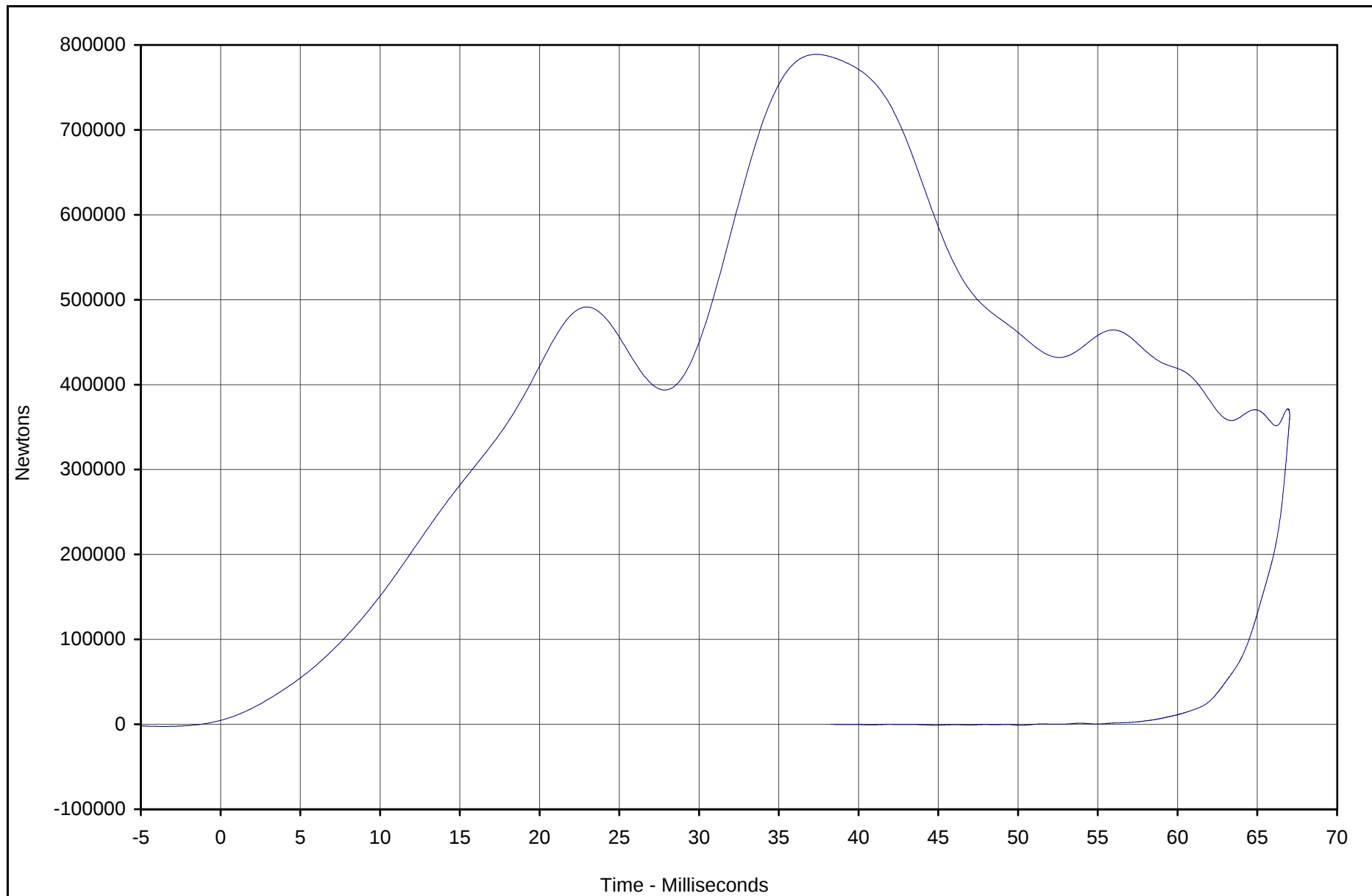
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

C-44



Curve Description	CURNO	Type	Units	Max	CM	Energy (Joules)	SAE Class
Barrier Force Total Sum vs. Displ.	001	XVY	Newtons	788950	37.4	272365	60



Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

BARRIER LOAD CELL SUMMARY DATA

Test Vehicle: 2003 Honda Pilot 4WD SUV

NHTSA No.: HO5303

Test Program: 2002 NHTSA 35mph NCAP

Test Date: 6/26/02

Location	Units	Max	Time	Min	Time
Barrier Force A1	Newtons	0.0	0.0	0.0	0.0 *
Barrier Force A2	Newtons	2342.3	27.8	-1142.3	15.3
Barrier Force A3	Newtons	3819.7	17.0	-2703.1	21.3
Barrier Force A4	Newtons	4091.2	17.8	-3079.6	21.6
Barrier Force A5	Newtons	5770.4	81.8	-4249.3	21.3
Barrier Force A6	Newtons	3142.0	25.2	-2216.3	21.5
Barrier Force A7	Newtons	6063.4	92.7	-2049.3	21.5
Barrier Force A8	Newtons	1734.2	54.7	-1251.7	20.9
Barrier Force A9	Newtons	4342.4	31.9	-430.4	28.0
Barrier Force B1	Newtons	0.0	0.0	0.0	0.0 *
Barrier Force B2	Newtons	86510.8	24.8	-1578.8	4.1
Barrier Force B3	Newtons	70288.5	15.8	-750.5	2.0
Barrier Force B4	Newtons	105052.9	25.4	-188.8	299.9
Barrier Force B5	Newtons	88687.7	34.0	-21.5	185.8
Barrier Force B6	Newtons	106518.2	28.0	-47.5	193.8
Barrier Force B7	Newtons	146138.4	23.3	-1524.7	2.6
Barrier Force B8	Newtons	14750.1	51.7	-1218.9	20.0
Barrier Force B9	Newtons	1885.2	23.5	-1534.1	19.4
Barrier Force C1	Newtons	0.0	0.0	0.0	0.0 *
Barrier Force C2	Newtons	29467.7	16.2	-1533.1	5.0
Barrier Force C3	Newtons	51774.1	14.5	-1219.5	2.2
Barrier Force C4	Newtons	35149.7	32.6	-130.2	214.0
Barrier Force C5	Newtons	35837.6	30.8	-1452.0	20.1
Barrier Force C6	Newtons	124076.4	28.3	-118.2	165.0
Barrier Force C7	Newtons	48520.4	13.6	-1061.8	2.5
Barrier Force C8	Newtons	12715.7	54.8	-563.1	12.7
Barrier Force C9	Newtons	2360.4	23.7	-1377.6	19.5
Barrier Force D1	Newtons	0.0	0.0	0.0	0.0 *
Barrier Force D2	Newtons	14234.2	48.0	-1578.7	6.1
Barrier Force D3	Newtons	10333.1	14.3	-1346.3	5.8
Barrier Force D4	Newtons	10233.4	13.7	-2069.5	22.1
Barrier Force D5	Newtons	16861.3	14.5	-1397.7	4.5
Barrier Force D6	Newtons	6702.5	16.5	-3180.3	21.9
Barrier Force D7	Newtons	11361.0	14.5	-731.1	4.4
Barrier Force D8	Newtons	10247.7	54.9	-1484.0	22.2
Barrier Force D9	Newtons	0.0	0.0	0.0	0.0 *
Barrier Force Sum Group 1	Newtons	146078.3	16.4	-3324.6	3.1
Barrier Force Sum Group 2	Newtons	275098.0	30.3	-131.9	299.9
Barrier Force Sum Group 3	Newtons	155854.9	24.1	-2284.6	2.6
Barrier Force Sum Group 4	Newtons	90355.0	15.3	-3524.4	3.4
Barrier Force Sum Group 5	Newtons	208996.8	28.6	-359.6	165.1
Barrier Force Sum Group 6	Newtons	58620.1	14.0	-2580.5	3.3
Barrier Force Total Sum	Newtons	788949.8	27.4	-1154.9	164.7

* Not recorded, no data

APPENDIX D

INSTRUMENTATION DATA CHANNEL ASSIGNMENTS

2002 NHTSA 35mph NCAP
Instrumentation Data Channel Assignments
Driver A.T.D. Serial Number 34
6/26/02
2003 Honda Pilot 4WD SUV

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
1	HEAD, PRIMARY	X	KEAC039	Accel.,1/2 bridge	Endevco	7264-2000	G
2	HEAD, PRIMARY	Y	KEAC038	Accel.,1/2 bridge	Endevco	7264-2000	G
3	HEAD, PRIMARY	Z	KEAC027	Accel.,1/2 bridge	Endevco	7264-2000	G
4	HEAD, REDUNDANT	X	KEAC031	Accel.,1/2 bridge	Endevco	7264-2000	G
5	HEAD, REDUNDANT	Y	KEAC032	Accel.,1/2 bridge	Endevco	7264-2000	G
6	HEAD, REDUNDANT	Z	KEAC026	Accel.,1/2 bridge	Endevco	7264-2000	G
7	NECK FORCE	X	GPUN02FX	Load cell, six axis neck	R. A. Denton	1716A	N
8	NECK FORCE	Y	GPUN02FY	Load cell, six axis neck	R. A. Denton	1716A	N
9	NECK FORCE	Z	GPUN02FZ	Load cell, six axis neck	R. A. Denton	1716A	N
10	NECK MOMENT	X	GPUN02MX	Load cell, six axis neck	R. A. Denton	1716A	Nm
11	NECK MOMENT	Y	GPUN02MY	Load cell, six axis neck	R. A. Denton	1716A	Nm
12	NECK MOMENT	Z	GPUN02MZ	Load cell, six axis neck	R. A. Denton	1716A	Nm
13	CHEST , PRIMARY	X	GPAC031	Accel., 1/2 bridge	Endevco	7264-2000	G
14	CHEST , PRIMARY	Y	GPAC024	Accel., 1/2 bridge	Endevco	7264-2000	G
15	CHEST , PRIMARY	Z	GPAC029	Accel., 1/2 bridge	Endevco	7264-2000	G
16	CHEST , REDUNDANT	X	KEAC023	Accel.,1/2 bridge	Endevco	7264-200	G
17	CHEST , REDUNDANT	Y	KEAC022	Accel.,1/2 bridge	Endevco	7264-200	G
18	CHEST , REDUNDANT	Z	KEAC024	Accel.,1/2 bridge	Endevco	7264-200	G
19	CHEST DISPLACEMENT	X	GPCP001	Rotary Pot Chest	Servo	14CBI	MM
20	PELVIS, PRIMARY	X	KEAC019	Accel.,1/2 bridge	Endevco	7264-200	G
21	PELVIS, PRIMARY	Y	KEAC020	Accel.,1/2 bridge	Endevco	7264-200	G
22	PELVIS, PRIMARY	Z	KEAC021	Accel.,1/2 bridge	Endevco	7264-200	G
23	LEFT FEMUR FORCE	Z	KEFF001	Load cell, Femur	R.A. Denton	2121	N
24	RIGHT FEMUR FORCE	Z	KEFF002	Load cell, Femur	R.A. Denton	2121	N

2002 NHTSA 35mph NCAP
Instrumentation Data Channel Assignments
Driver A.T.D. Serial Number 34
6/26/02
2003 Honda Pilot 4WD SUV

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
25	UP. TIBIA LEFT MOM.	X	GPUT09MX	2 ch., Upper tibia gage	R. A. Denton	1583	Nm
26	UP. TIBIA LEFT MOM.	Y	GPUT09MY	2 ch., Upper tibia gage	R. A. Denton	1583	Nm
27	UP. TIBIA RIGHT MOM.	X	GPUT09MX	2 ch., Upper tibia gage	R. A. Denton	1583	Nm
28	UP. TIBIA RIGHT MOM.	Y	GPUT09MY	2 ch., Upper tibia gage	R. A. Denton	1583	Nm
29	LWR. TIBIA LEFT MOM.	X	GPLT09MX	3 ch., lower tibia gage	R. A. Denton	3093	Nm
30	LWR. TIBIA LEFT MOM.	Y	GPLT09MY	3 ch., lower tibia gage	R. A. Denton	3093	Nm
31	LWR. TIBIA LEFT FORCE	Z	GPLT09FZ	3 ch., lower tibia gage	R. A. Denton	3093	N
32	LWR. TIBIA RIGHT MOM.	X	GPLT09MX	3 ch., lower tibia gage	R. A. Denton	3093	Nm
33	LWR. TIBIA RIGHT MOM.	Y	GPLT09MY	3 ch., lower tibia gage	R. A. Denton	3093	Nm
34	LWR. TIBIA RIGHT FORCE	Z	GPLT09FZ	3 ch., lower tibia gage	R. A. Denton	3093	N
35	FOOT LEFT, AFT	X	KEIC003X	Accel., Foot Triax	I.C. Sensor	3031-500	G
36	FOOT LEFT, AFT	Z	KEIC003Y	Accel., Foot Triax	I.C. Sensor	3031-500	G
37	FOOT LEFT, FORE	Z	KEIC003Z	Accel., Foot Triax	I.C. Sensor	3031-500	G
38	FOOT RIGHT, AFT	X	KEIC004X	Accel., Foot Triax	I.C. Sensor	3031-500	G
39	FOOT RIGHT, AFT	Z	KEIC004Y	Accel., Foot Triax	I.C. Sensor	3031-500	G
40	FOOT RIGHT, FORE	Z	KEIC004Z	Accel., Foot Triax	I.C. Sensor	3031-500	G
41	LAP BELT FORCE	X	KELC003	Load cell, Seat belt	Lebow	3371	N
42	SHOULDER BELT FORCE	X	KELC004	Load cell, Seat belt	Lebow	3371	N
43	SHOULDER BELT SPOOL	X	KEPP001	Pullout pot	Celesco	PTX101-0030	CM
44	SHOULDER BELT ELONG.	X	KEEP001	Linear pot., belt stretch	E.T.I.	LCP8-10 10K	MM/CM

2002 NHTSA 35mph NCAP
Instrumentation Data Channel Assignments
Passenger A.T.D. Serial Number 35
6/26/02
2003 Honda Pilot 4WD SUV

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
45	HEAD, PRIMARY	X	GPAC027	Accel., 1/2 bridge	Endevco	7264-2000	G
46	HEAD, PRIMARY	Y	GPAC002	Accel., 1/2 bridge	Endevco	7264-2000	G
47	HEAD, PRIMARY	Z	GPAC003	Accel., 1/2 bridge	Endevco	7264-2000	G
48	HEAD, REDUNDANT	X	GPAC032	Accel., 1/2 bridge	Endevco	7264-2000	G
49	HEAD, REDUNDANT	Y	GPAC021	Accel., 1/2 bridge	Endevco	7264-2000	G
50	HEAD, REDUNDANT	Z	GPAC026	Accel., 1/2 bridge	Endevco	7264-2000	G
51	NECK FORCE	X	GPUN01FX	Load cell, six axis neck	R. A. Denton	1716A	N
52	NECK FORCE	Y	GPUN01FY	Load cell, six axis neck	R. A. Denton	1716A	N
53	NECK FORCE	Z	GPUN01FZ	Load cell, six axis neck	R. A. Denton	1716A	N
54	NECK MOMENT	X	GPUN01MX	Load cell, six axis neck	R. A. Denton	1716A	Nm
55	NECK MOMENT	Y	GPUN01MY	Load cell, six axis neck	R. A. Denton	1716A	Nm
56	NECK MOMENT	Z	GPUN01MZ	Load cell, six axis neck	R. A. Denton	1716A	Nm
57	CHEST , PRIMARY	X	GPAC005	Accel., 1/2 bridge	Endevco	7264-2000	G
58	CHEST , PRIMARY	Y	GPAC011	Accel., 1/2 bridge	Endevco	7264-2000	G
59	CHEST , PRIMARY	Z	GPAC010	Accel., 1/2 bridge	Endevco	7264-2000	G
60	CHEST , REDUNDANT	X	GPAC034	Accel., 1/2 bridge	Endevco	7264-2000	G
61	CHEST , REDUNDANT	Y	GPAC023	Accel., 1/2 bridge	Endevco	7264-2000	G
62	CHEST , REDUNDANT	Z	GPAC020	Accel., 1/2 bridge	Endevco	7264-2000	G
63	CHEST DISPLACEMENT	X	GPCP002	Rotary Pot Chest	Servo	14CBI	MM
64	PELVIS, PRIMARY	X	GPAC025	Accel., 1/2 bridge	Endevco	7264-2000	G
65	PELVIS, PRIMARY	Y	GPAC022	Accel., 1/2 bridge	Endevco	7264-2000	G
66	PELVIS, PRIMARY	Z	GPAC019	Accel., 1/2 bridge	Endevco	7264-2000	G
67	LEFT FEMUR FORCE	Z	KEFF003	Load cell, Femur	R.A. Denton	2121	N
68	RIGHT FEMUR FORCE	Z	KEFF004	Load cell, Femur	R.A. Denton	2121	N

2002 NHTSA 35mph NCAP
Instrumentation Data Channel Assignments
Passenger A.T.D. Serial Number 35
6/26/02
2003 Honda Pilot 4WD SUV

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
69	UP. TIBIA LEFT MOM.	X	GPUT09MX	2 ch., Upper tibia gage	R. A. Denton	1583	Nm
70	UP. TIBIA LEFT MOM.	Y	GPUT09MY	2 ch., Upper tibia gage	R. A. Denton	1583	Nm
71	UP. TIBIA RIGHT MOM.	X	GPUT09MX	2 ch., Upper tibia gage	R. A. Denton	1583	Nm
72	UP. TIBIA RIGHT MOM.	Y	GPUT09MY	2 ch., Upper tibia gage	R. A. Denton	1583	Nm
73	LWR. TIBIA LEFT MOM.	X	GPLT09MX	3 ch., lower tibia gage	R. A. Denton	3093	Nm
74	LWR. TIBIA LEFT MOM.	Y	GPLT09MY	3 ch., lower tibia gage	R. A. Denton	3093	Nm
75	LWR. TIBIA LEFT FORCE	Z	GPLT09FZ	3 ch., lower tibia gage	R. A. Denton	3093	N
76	LWR. TIBIA RIGHT MOM.	X	GPLT09MX	3 ch., lower tibia gage	R. A. Denton	3093	Nm
77	LWR. TIBIA RIGHT MOM.	Y	GPLT09MY	3 ch., lower tibia gage	R. A. Denton	3093	Nm
78	LWR. TIBIA RIGHT FORCE	Z	GPLT09FZ	3 ch., lower tibia gage	R. A. Denton	3093	N
79	FOOT LEFT, AFT	X	KEIC002X	Accel., Foot Triax	I.C. Sensor	3031-500	G
80	FOOT LEFT, AFT	Z	KEIC002Y	Accel., Foot Triax	I.C. Sensor	3031-500	G
81	FOOT LEFT, FORE	Z	KEIC002Z	Accel., Foot Triax	I.C. Sensor	3031-500	G
82	FOOT RIGHT, AFT	X	KEIC001X	Accel., Foot Triax	I.C. Sensor	3031-500	G
83	FOOT RIGHT, AFT	Z	KEIC001Y	Accel., Foot Triax	I.C. Sensor	3031-500	G
84	FOOT RIGHT, FORE	Z	KEIC001Z	Accel., Foot Triax	I.C. Sensor	3031-500	G
85	LAP BELT FORCE	X	KELC001	Load cell, Seat belt	Lebow	3371	N
86	SHOULDER BELT FORCE	X	KELC002	Load cell, Seat belt	Lebow	3371	N
87	SHOULDER BELT SPOOL	X	KEPP001	Pullout pot	Celesco	PTX101-0030	MM
88	SHOULDER BELT ELONG.	X	KEEP001	Linear pot., belt stretch	E.T.I.	LCP8-10 10K	MM/CM

**2002 NHTSA 35mph NCAP
Instrumentation Data Channel Assignments
Vehicle Accelerometers
6/26/02
2003 Honda Pilot 4WD SUV**

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
89	Left Rear	X	KEVA002	Accel., Pre-Amp	I.C.S/Karco	3031-500	G
90	Right Rear	X	KEVA006	Accel., Vehicle block	I.C. Sensor	3031-200	G
91	Engine Top	X	KEVA009	Accel., Vehicle block	I.C. Sensor	3031-500	G
92	Engine Bottom	X	KEVA007	Accel., Vehicle block	I.C. Sensor	3031-500	G
93	Left Brake Caliper	X	KEVA008	Accel., Vehicle block	I.C. Sensor	3031-500	G
94	Right Brake Caliper	X	KEVA012	Accel., Vehicle block	I.C. Sensor	3031-500	G
95	Instrument Panel	X	KEVA011	Accel., Vehicle block	I.C. Sensor	3031-200	G
96	Left Rear	Z	KEVA001	Accel., Vehicle block	I.C. Sensor	3031-500	G
97	Right Rear	Z	KEVA010	Accel., Vehicle block	I.C. Sensor	3031-200	G

**2002 NHTSA 35mph NCAP
Instrumentation Data Channel Assignments
Rigid Load Cell Barrier
6/26/02
2003 Honda Pilot 4WD SUV**

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
98	BARRIER FORCE A1	X	BARRIER	Not Used	N/A	N/A	N/A
99	BARRIER FORCE A2	X	BARRIER	Load Cell, LCB	Lebow	1220-FS	N
100	BARRIER FORCE A3	X	BARRIER	Load Cell, LCB	Lebow	1220-FS	N
101	BARRIER FORCE A4	X	BARRIER	Load Cell, LCB	Lebow	1220-FS	N
102	BARRIER FORCE A5	X	BARRIER	Load Cell, LCB	Lebow	1220-FS	N
103	BARRIER FORCE A6	X	BARRIER	Load Cell, LCB	Lebow	1220-FS	N
104	BARRIER FORCE A7	X	BARRIER	Load Cell, LCB	Lebow	1220-FS	N
105	BARRIER FORCE A8	X	BARRIER	Load Cell, LCB	Lebow	1220-FS	N
106	BARRIER FORCE A9	X	BARRIER	Load Cell, LCB	Lebow	1220-FS	N
107	BARRIER FORCE B1	X	BARRIER	Not Used	N/A	N/A	N/A
108	BARRIER FORCE B2	X	BARRIER	Load Cell, LCB	Lebow	1220-FS	N
109	BARRIER FORCE B3	X	BARRIER	Load Cell, LCB	Lebow	1220-FS	N
110	BARRIER FORCE B4	X	BARRIER	Load Cell, LCB	Lebow	1220-FS	N
111	BARRIER FORCE B5	X	BARRIER	Load Cell, LCB	Lebow	1220-FS	N
112	BARRIER FORCE B6	X	BARRIER	Load Cell, LCB	Lebow	1220-FS	N
113	BARRIER FORCE B7	X	BARRIER	Load Cell, LCB	Lebow	1220-FS	N
114	BARRIER FORCE B8	X	BARRIER	Load Cell, LCB	Lebow	1220-FS	N
115	BARRIER FORCE B9	X	BARRIER	Load Cell, LCB	Lebow	1220-FS	N

**2002 NHTSA 35mph NCAP
Instrumentation Data Channel Assignments
Rigid Load Cell Barrier
6/26/02
2003 Honda Pilot 4WD SUV**

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
116	BARRIER FORCE C1	X	BARRIER	Not Used	N/A	N/A	N/A
117	BARRIER FORCE C2	X	BARRIER	Load Cell, LCB	Lebow	1220-FS	N
118	BARRIER FORCE C3	X	BARRIER	Load Cell, LCB	Lebow	1220-FS	N
119	BARRIER FORCE C4	X	BARRIER	Load Cell, LCB	Lebow	1220-FS	N
120	BARRIER FORCE C5	X	BARRIER	Load Cell, LCB	Lebow	1220-FS	N
121	BARRIER FORCE C6	X	BARRIER	Load Cell, LCB	Lebow	1220-FS	N
122	BARRIER FORCE C7	X	BARRIER	Load Cell, LCB	Lebow	1220-FS	N
123	BARRIER FORCE C8	X	BARRIER	Load Cell, LCB	Lebow	1220-FS	N
124	BARRIER FORCE C9	X	BARRIER	Load Cell, LCB	Lebow	1220-FS	N
125	BARRIER FORCE D1	X	N/A	Not Used	N/A	N/A	N/A
126	BARRIER FORCE C8	X	BARRIER	Load Cell, LCB	Lebow	1220-FS	N
127	BARRIER FORCE C8	X	BARRIER	Load Cell, LCB	Lebow	1220-FS	N
128	BARRIER FORCE C8	X	BARRIER	Load Cell, LCB	Lebow	1220-FS	N
129	BARRIER FORCE C8	X	BARRIER	Load Cell, LCB	Lebow	1220-FS	N
130	BARRIER FORCE C8	X	BARRIER	Load Cell, LCB	Lebow	1220-FS	N
131	BARRIER FORCE C8	X	BARRIER	Load Cell, LCB	Lebow	1220-FS	N
132	BARRIER FORCE C8	X	BARRIER	Load Cell, LCB	Lebow	1220-FS	N
133	BARRIER FORCE D9	X	N/A	Not Used	N/A	N/A	N/A

2002 NHTSA 35mph NCAP
Instrumentation Data Channel Assignments
Nine Accelerometer Head Array Channels
6/26/02
2003 Honda Pilot 4WD SUV

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
134	Driver Head CG	X	KEAC039	Accel.,1/2 bridge	Endevco	7264-2000	G
135	Driver Head CG	Y	KEAC038	Accel.,1/2 bridge	Endevco	7264-2000	G
136	Driver Head CG	Z	KEAC027	Accel.,1/2 bridge	Endevco	7264-2000	G
137	Driver Y-arm	Z	GPAC016	Accel., 1/2 bridge	Endevco	7264-2000	G
138	Driver Y-arm	X	GPAC015	Accel., 1/2 bridge	Endevco	7264-2000	G
139	Driver X-arm	Z	GPAC004	Accel., 1/2 bridge	Endevco	7264-2000	G
140	Driver X-arm	Y	GPAC018	Accel., 1/2 bridge	Endevco	7264-2000	G
141	Driver Z-arm	X	GPAC006	Accel., 1/2 bridge	Endevco	7264-2000	G
142	Driver Z-arm	Y	GPAC007	Accel., 1/2 bridge	Endevco	7264-2000	G
143	Passenger Head CG	X	GPAC027	Accel., 1/2 bridge	Endevco	7264-2000	G
144	Passenger Head CG	Y	GPAC002	Accel., 1/2 bridge	Endevco	7264-2000	G
145	Passenger Head CG	Z	GPAC003	Accel., 1/2 bridge	Endevco	7264-2000	G
146	Passenger Y-arm	Z	GPAC012	Accel., 1/2 bridge	Endevco	7264-2000	G
147	Passenger Y-arm	X	GPAC001	Accel., 1/2 bridge	Endevco	7264-2000	G
148	Passenger X-arm	Z	GPAC036	Accel., 1/2 bridge	Endevco	7264-2000	G
149	Passenger X-arm	Y	GPAC014	Accel., 1/2 bridge	Endevco	7264-2000	G
150	Passenger Z-arm	X	GPAC030	Accel., 1/2 bridge	Endevco	7264-2000	G
151	Passenger Z-arm	Y	GPAC037	Accel., 1/2 bridge	Endevco	7264-2000	G

* Duplicate of Head CG Primary Channels

APPENDIX E

DUMMY CALIBRATION DATA



Calibration Data Sheet

Hybrid III 50th Percentile Male

Knee Impact Test

ATD Serial No.: 034

Location: Left Knee

Test I.D.: LK07B

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.6	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Pendulum Velocity at T=0	m/sec	2.07 to 2.13	2.10	Pass
Peak Probe Force	N	4715 to 5782	5027	Pass
Overall Test Results				Pass

ATD Serial No.: 034

Location: Right Knee

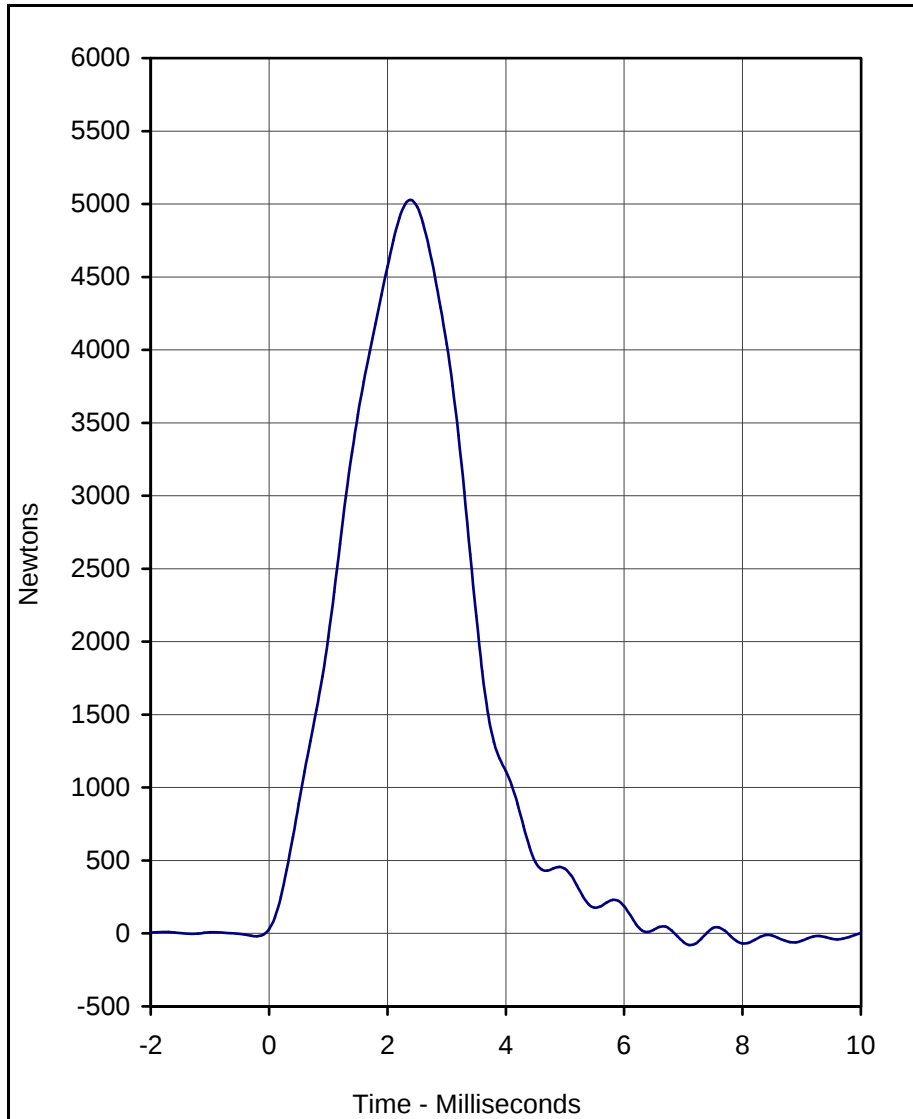
Test I.D.: RK07B

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.6	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Pendulum Velocity at T=0	m/sec	2.07 to 2.13	2.11	Pass
Peak Probe Force	N	4715 to 5782	5509	Pass
Overall Test Results				Pass

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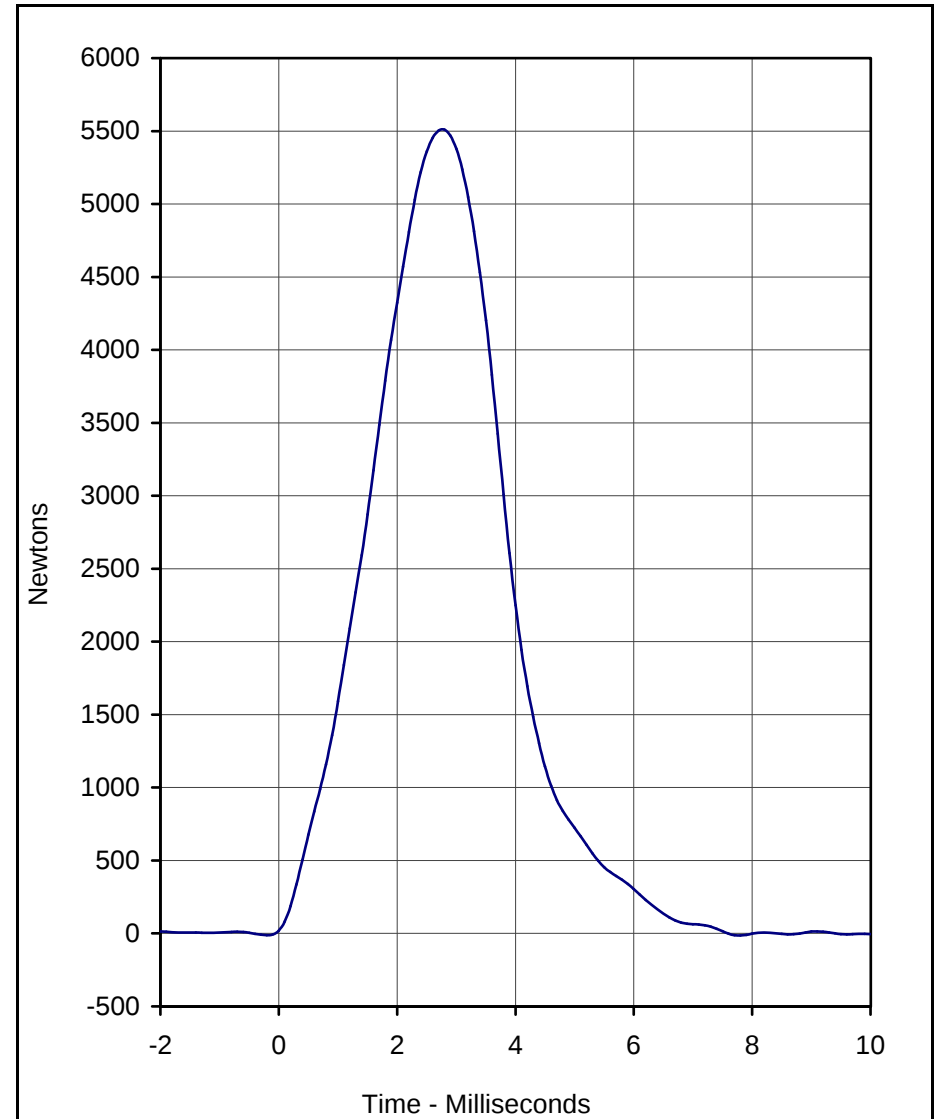
Test Date



Curve Description	Location	Test I.D.	CURNO	Type
Probe Force	Left Knee	LK07B	001	FIL

Units	Max	Time	Min	Time	SAE Class
Newtons	5027.1	2.4	-79.0	7.1	600

Test Program: Hybrid III 50th Percentile Male Knee Impact Test
 Test Date: 6/11/02



Curve Description	Location	Test I.D.	CURNO	Type
Probe Force	Right Knee	RK07B	002	FIL

Units	Max	Time	Min	Time	SAE Class
Newtons	5509.3	2.8	-14.6	7.8	600

A.T.D. Serial No.: 034





Calibration Data Sheet

Hybrid III 50th Percentile Male

Head Drop Test

ATD Serial No.: 034

Test I.D.: HD07B

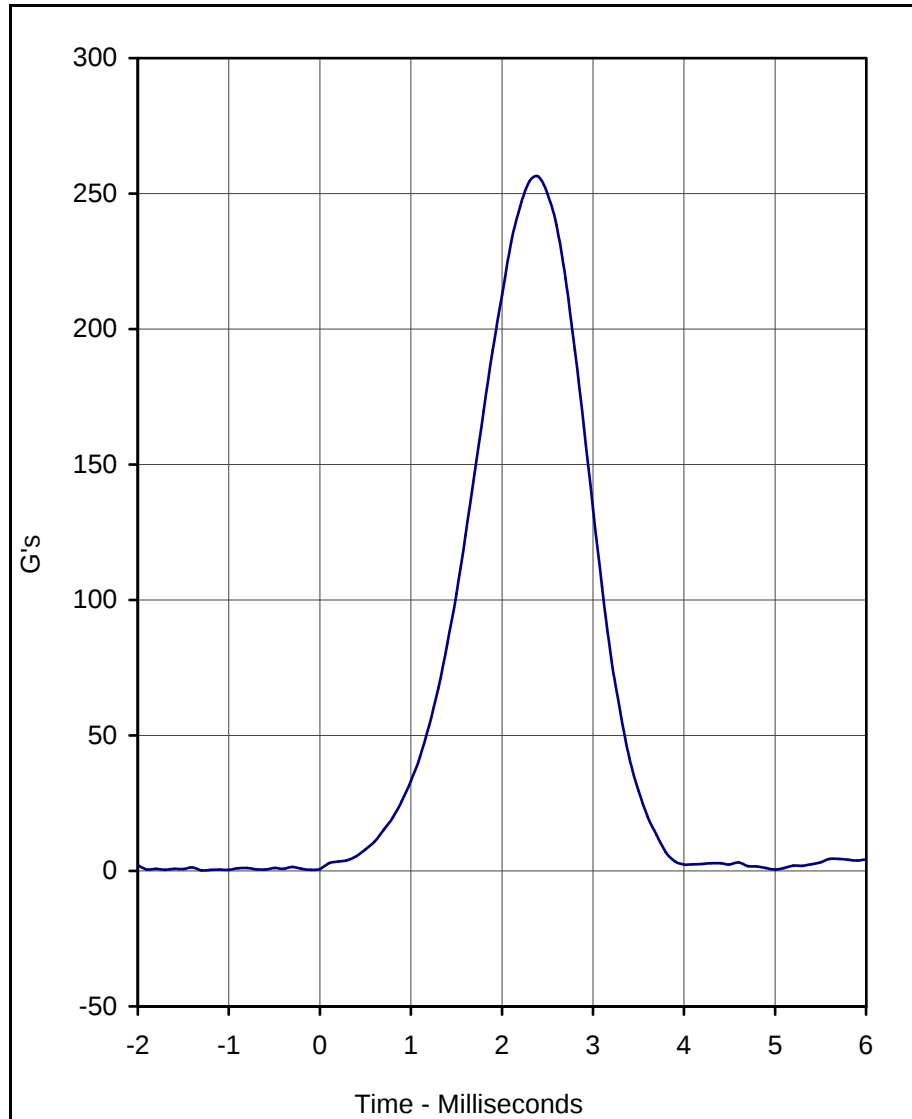
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.6	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Peak Resultant Acceleration	G's	225.0 to 275.0	256.3	Pass
Peak Lateral Acceleration	G's	≤15.0	5.0	Pass
Is Acceleration Unimodal?	Yes/No	Yes	Yes	Pass
Overall Test Results				Pass

E-3

KAR22072-01

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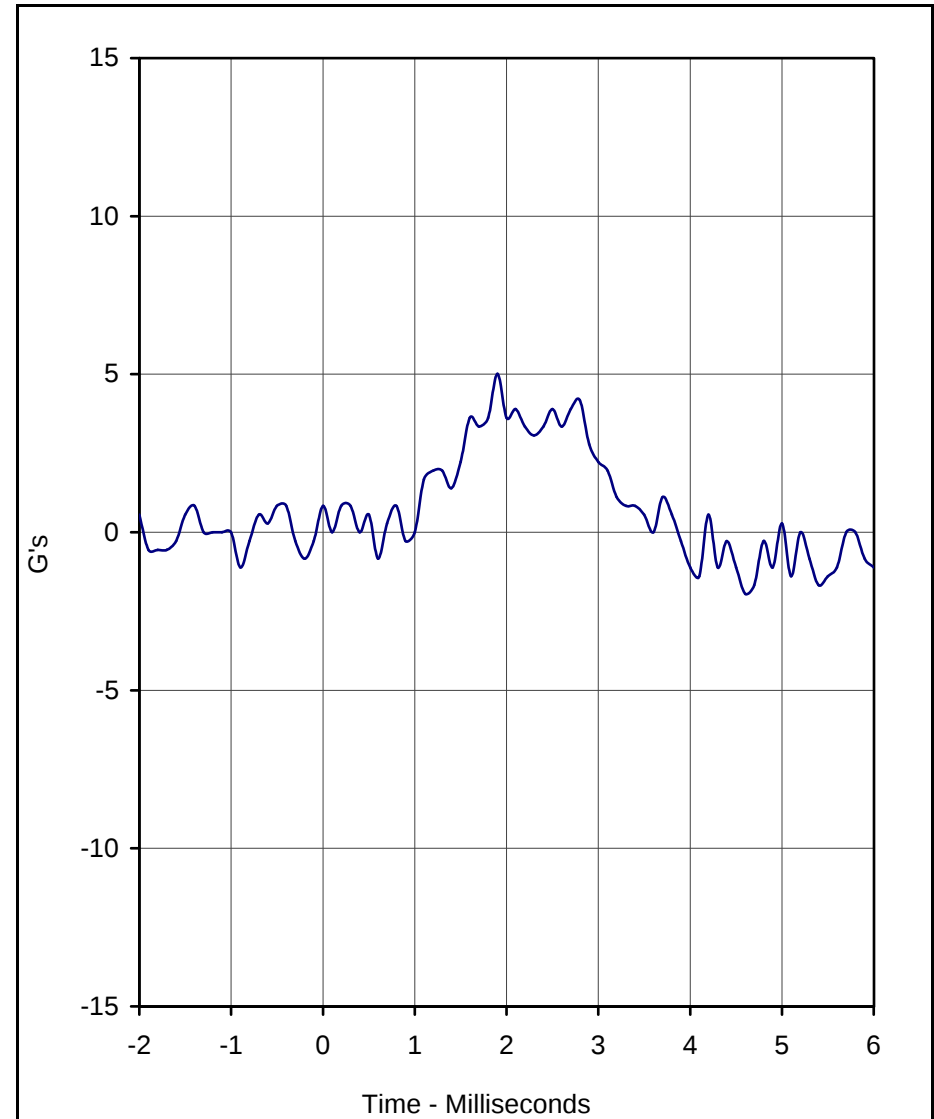
June 11, 2002
Test Date



Curve Description	CURNO	Type
Head Resultant	001	RES

Units	Max	Time	Min	Time	SAE Class
G's	256.3	2.4	0.2	-1.3	1000

Test Program: Hybrid III 50th Percentile Male Head Drop Test
 Test Date: 6/11/02



Curve Description	CURNO	Type
Head Y	002	FIL

Units	Max	Time	Min	Time	SAE Class
G's	5.0	1.9	-1.9	4.6	1000

A.T.D. Serial No.: 034
 Test I.D.: HD07B





Calibration Data Sheet

Hybrid III 50th Percentile Male

Thorax Impact Test

ATD Serial No.: 034

Test I.D.: CH07B

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Probe Velocity	m/s	6.58 to 6.82	6.64	Pass
Peak Probe Force	Newtons	5159 to 5893	5291	Pass
Peak Sternum Displacement	CM	6.35 to 7.26	6.71	Pass
Internal Hysteresis	%	69 to 85	78.5	Pass
Overall Test Results				Pass

E-5

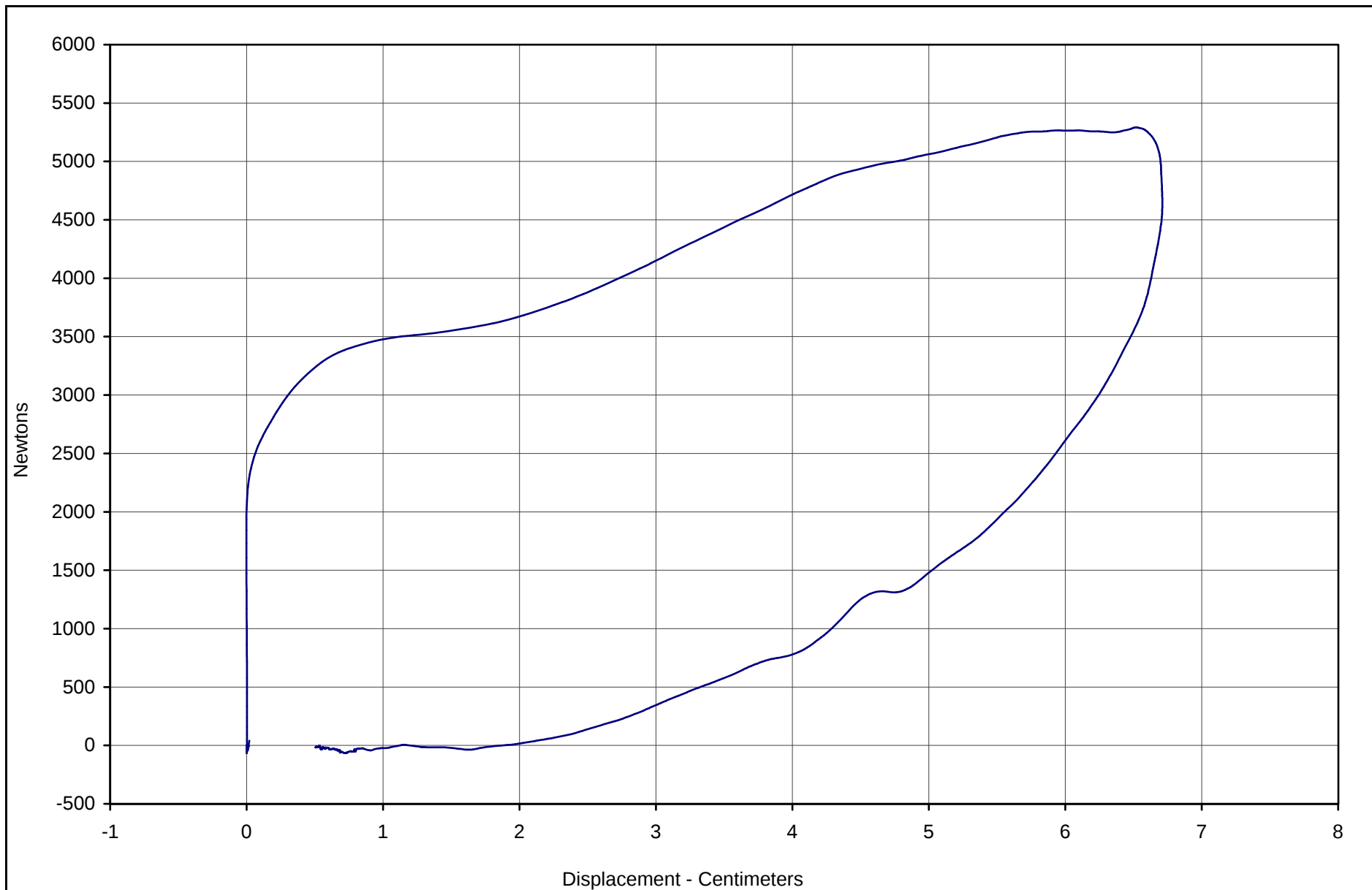
KAR22072-01

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Test Date

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Curve Description	CURNO	Type	Hysterysis	Peak Chest Displ.	Peak Probe Force	SAE Class
Probe Force vs. Chest Displacement	001	FIL	78.5	6.71	5291.5	180



Test Program: Hybrid III 50th Percentile Male Thorax Impact

A.T.D. Serial No.: 034

Test Date: 6/11/02

Test I.D.: CH07B

-KAR22072-01



Calibration Data Sheet

Hybrid III 50th Percentile Male

Neck Flexion Test

ATD Serial No.: 034

Test I.D.: NF07B

Tested Parameter		Units	Specification	Result	Pass/Fail
Laboratory Temperature		°C	20.6 to 22.2	21.1	Pass
Laboratory Relative Humidity		%	10 to 70	30	Pass
Pendulum Velocity		m/s	6.89 to 7.13	6.98	Pass
Pendulum Deceleration	10 Msec.	G's	22.5 to 27.5	23.5	Pass
	20 Msec.	G's	17.6 to 22.6	20.4	Pass
	30 Msec.	G's	12.5 to 18.5	13.5	Pass
Peak Pendulum Decel. after 30 Msec.		G's	≤ 29.0	13.5	Pass
Deceleration Decay, Time to Cross 5 G's		Msec.	34.0 to 42.0	38.4	Pass
Maximum "D" Plane Rotation	Maximum	Degrees	64.0 to 78.0	70.2	Pass
	Time	Msec.	57.0 to 64.0	63.6	Pass
"D" Plane Rotation Decay, Time To Zero Crossing		Msec.	113.0 to 128.0	118.3	Pass
Moment About Occipital Condyle	Maximum	Nm	84.1 to 108.5	94.6	Pass
	Time	Msec.	47.0 to 58.0	54.7	Pass
Positive Moment Decay, Time To Zero Crossing		Msec.	97.0 to 107.0	98.0	Pass
Overall Test Results					Pass

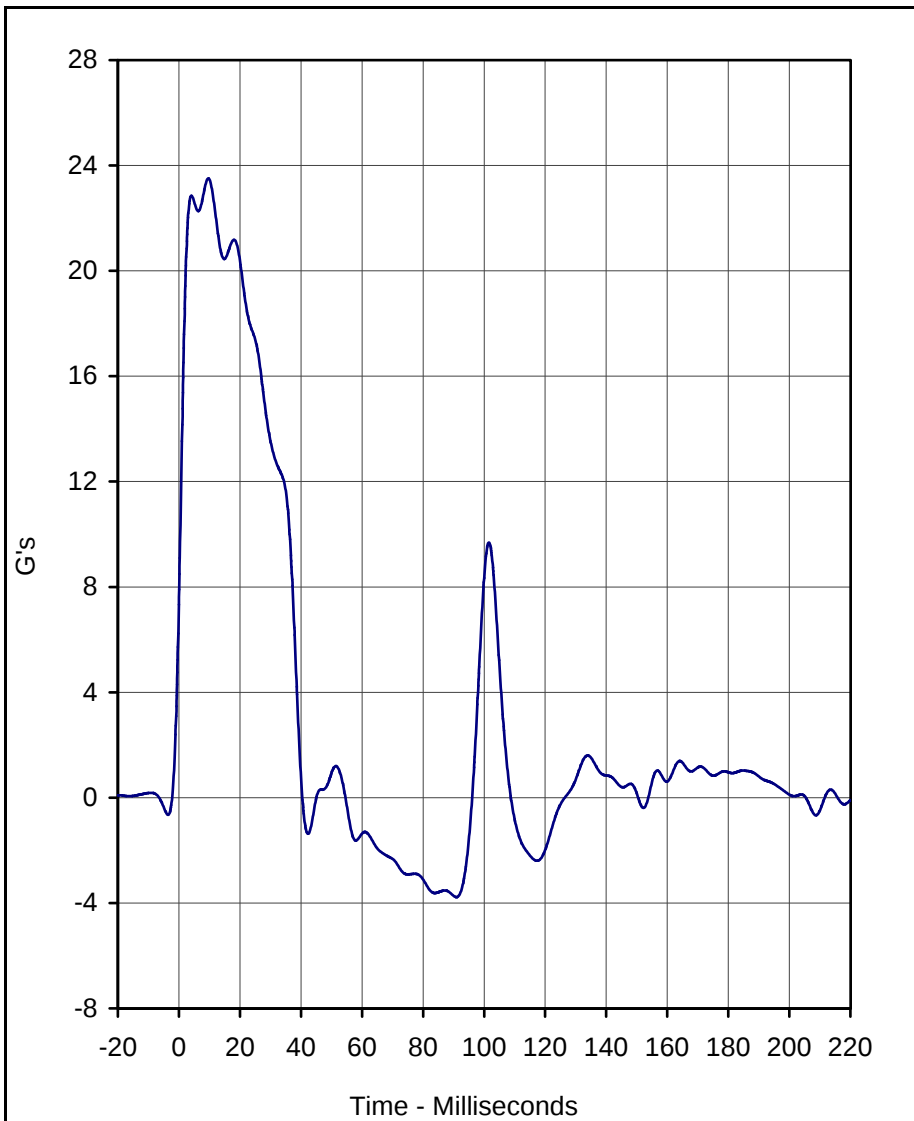
Laboratory Technician

June 11, 2002

Test Date

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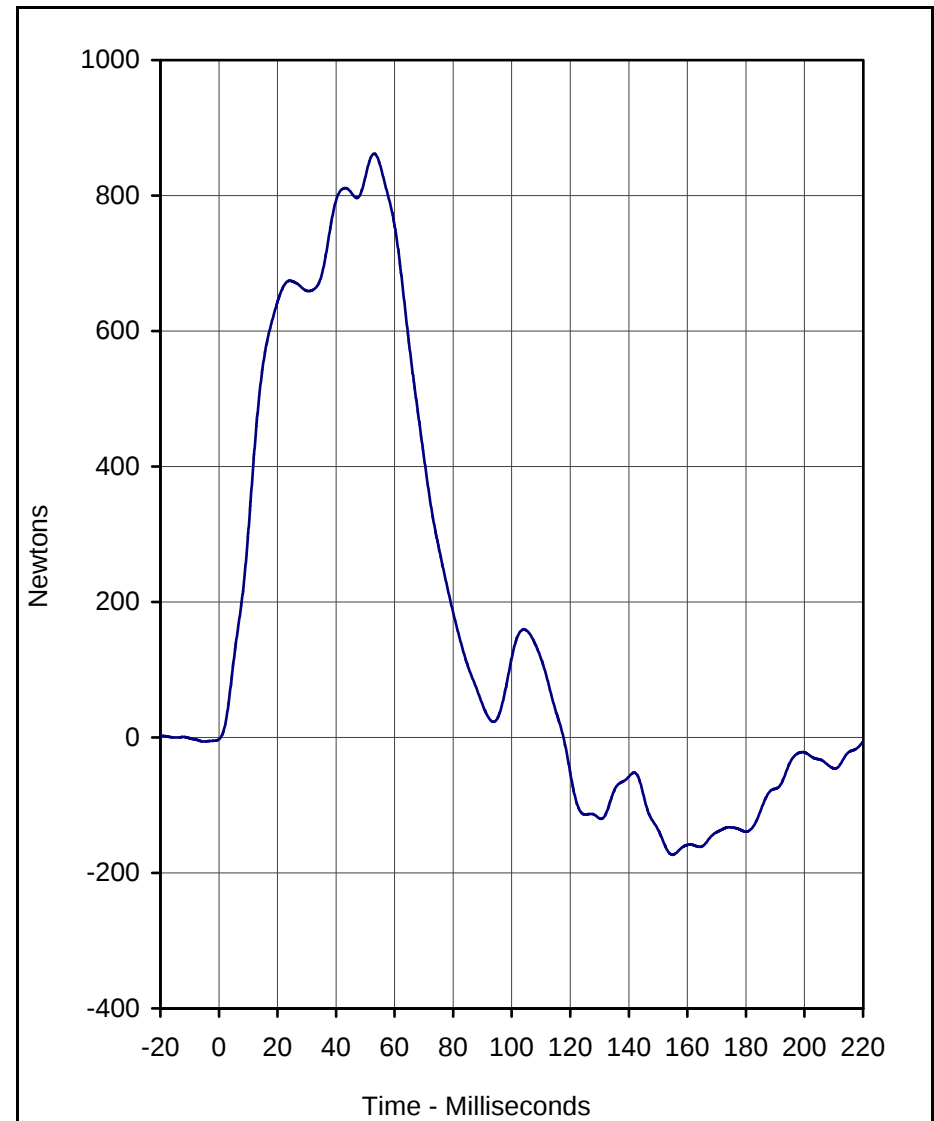
KAR22072-01



Curve Description	CURNO	Type
Pendulum Deceleration	001	FIL

Units	Max	Time	Min	Time	SAE Class
G's	23.5	9.6	-3.8	90.9	60

Test Program: Hybrid III 50th Percentile Male Neck Flexion Test
 Test Date: 6/11/02

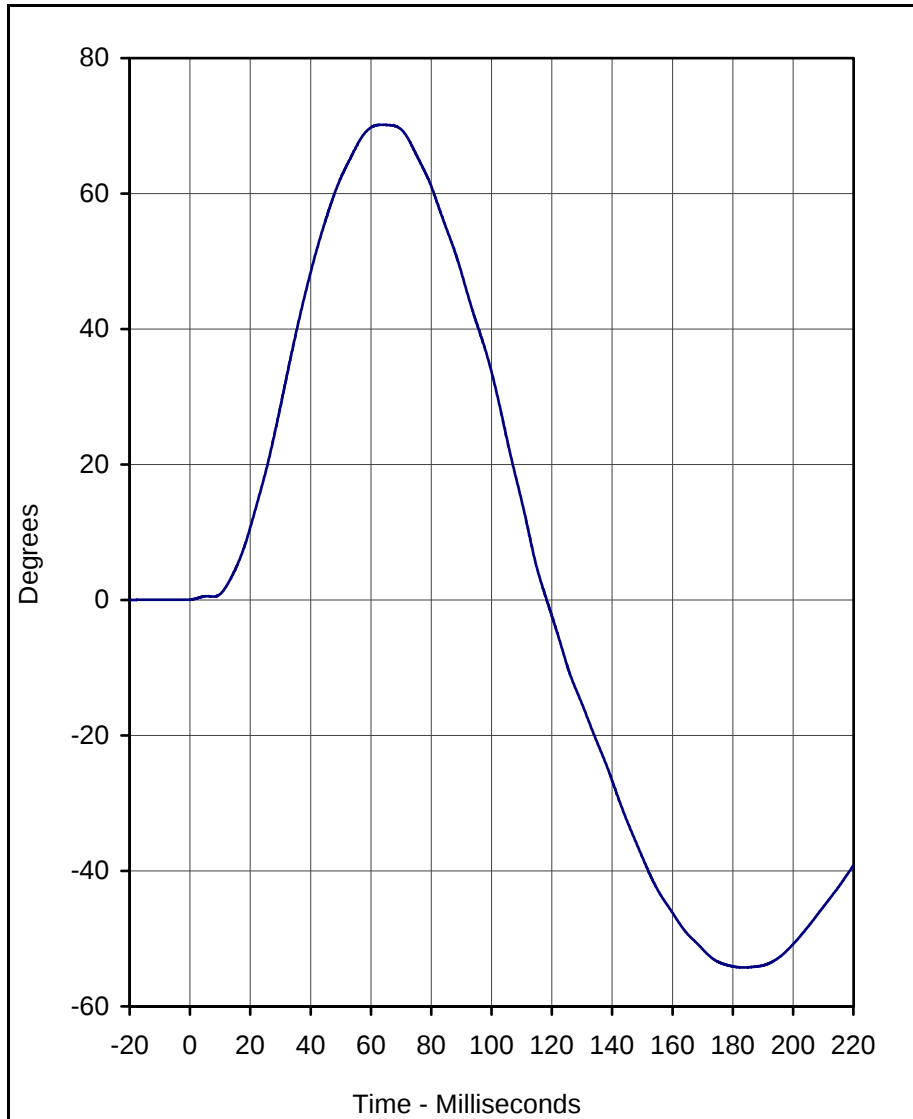


Curve Description	CURNO	Type
Neck Force X	002	FIL

Units	Max	Time	Min	Time	SAE Class
Newtons	861.9	53.0	-173.1	154.9	60

A.T.D. Serial No.: 034
 Test I.D.: NF07B

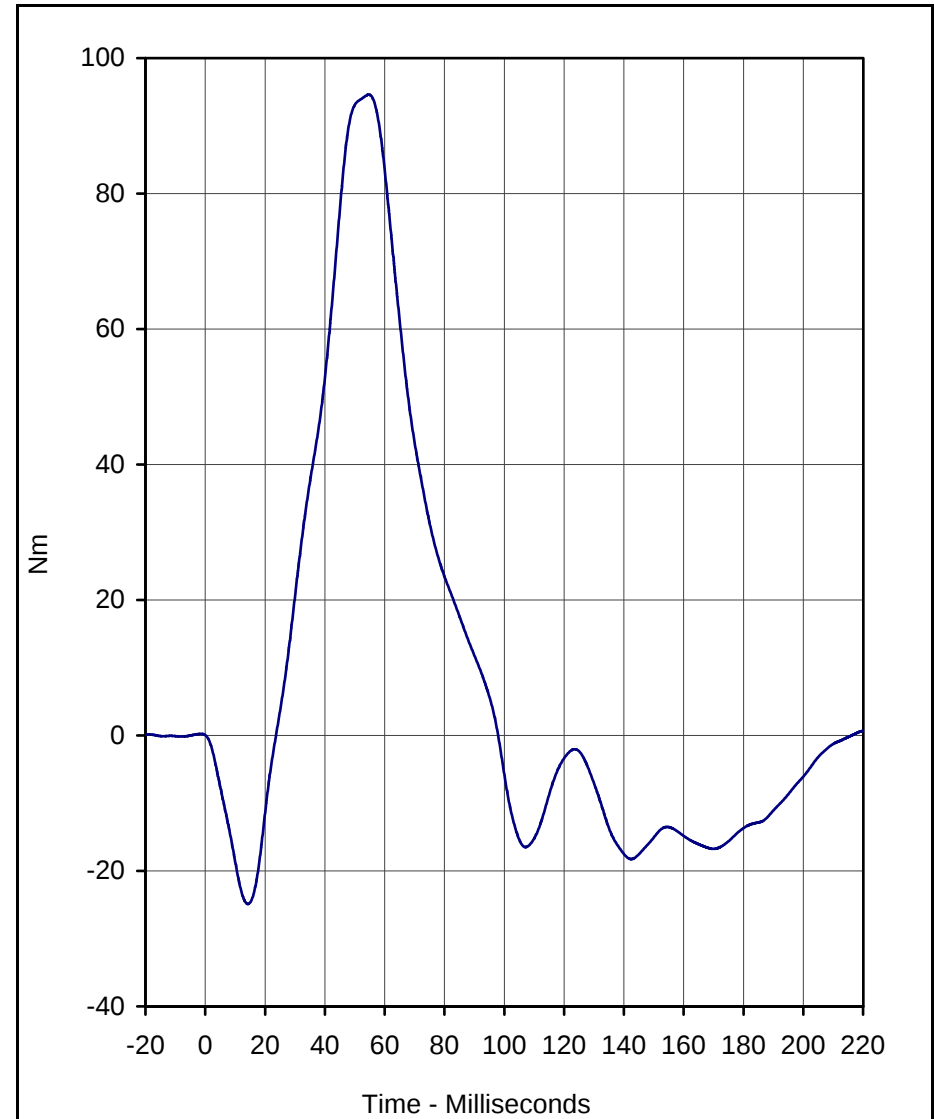




Curve Description	CURNO	Type
"D" Plane Rotation	003	FIL

Units	Max	Time	Min	Time	SAE Class
Degrees	70.2	63.6	-54.3	183.6	60

Test Program: Hybrid III 50th Percentile Male Neck Flexion Test
 Test Date: 6/11/02



Curve Description	CURNO	Type
Moment About Occipital Condyle	004	FIL

Units	Max	Time	Min	Time	SAE Class
Nm	94.6	54.7	-24.9	14.3	60

A.T.D. Serial No.: 034
 Test I.D.: NF07B





Calibration Data Sheet

Hybrid III 50th Percentile Male

Neck Extension Test

ATD Serial No.: 034

Test I.D.: NE07B

Tested Parameter		Units	Specification	Result	Pass/Fail
Laboratory Temperature		°C	20.6 to 22.2	21.1	Pass
Laboratory Relative Humidity		%	10 to 70	30	Pass
Pendulum Velocity		m/s	5.94 to 6.19	6.17	Pass
Pendulum Deceleration	10 Msec.	G's	17.2 to 21.2	18.3	Pass
	20 Msec.	G's	14.0 to 19.0	17.0	Pass
	30 Msec.	G's	11.0 to 16.0	15.3	Pass
Peak Pendulum Decel. after 30 Msec.		G's	≤ 22.0	15.3	Pass
Deceleration Decay, Time to Cross 5 G's		Msec.	38.0 to 46.0	44.2	Pass
Maximum "D" Plane Rotation	Maximum	Degrees	81.0 to 106.0	95.5	Pass
	Time	Msec.	72.0 to 82.0	78.7	Pass
"D" Plane Rotation Decay, Time To Zero Crossing		Msec.	147.0 to 174.0	150.2	Pass
Moment About Occipital Condyle	Maximum	Nm	-52.9 to- 79.9	-68.4	Pass
	Time	Msec.	65.0 to 79.0	66.3	Pass
Positive Moment Decay, Time To Zero Crossing		Msec.	120.0 to 148.0	135.9	Pass
Overall Test Results					Pass

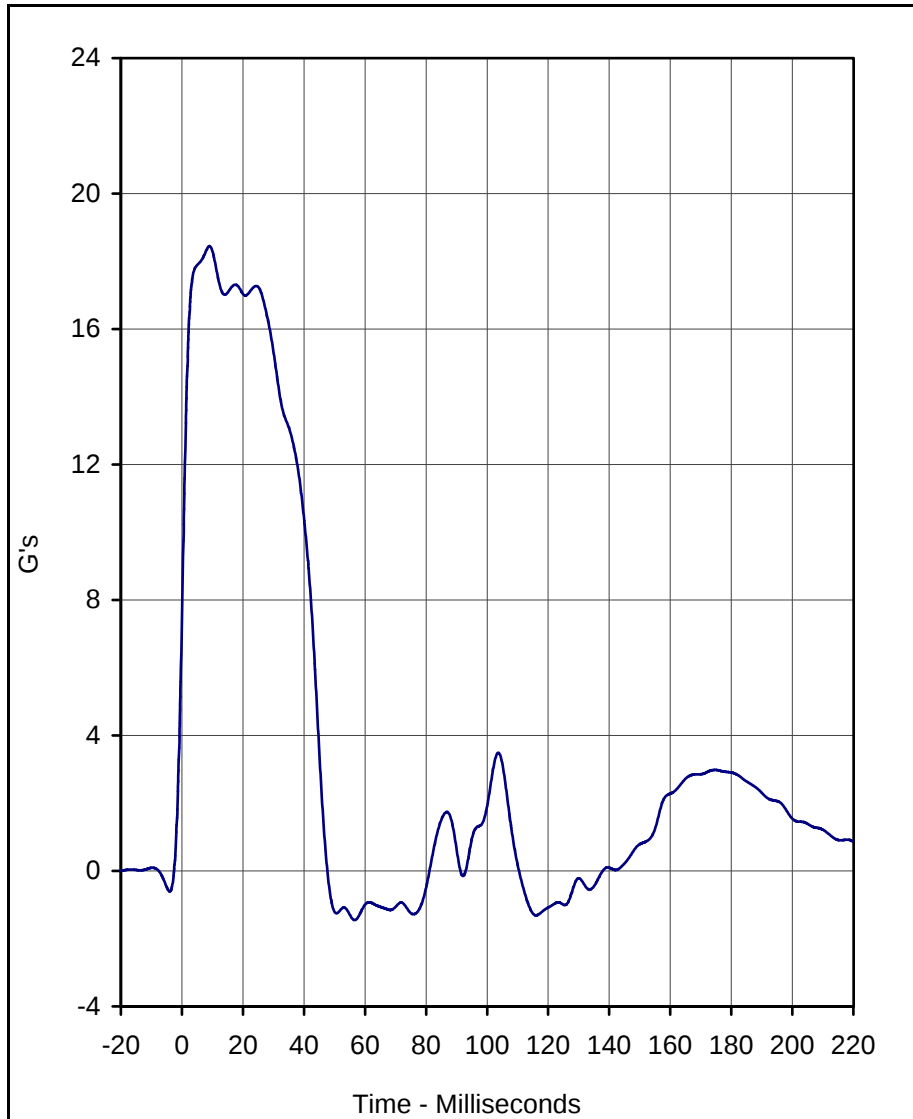
Laboratory Technician

June 11, 2002

Test Date

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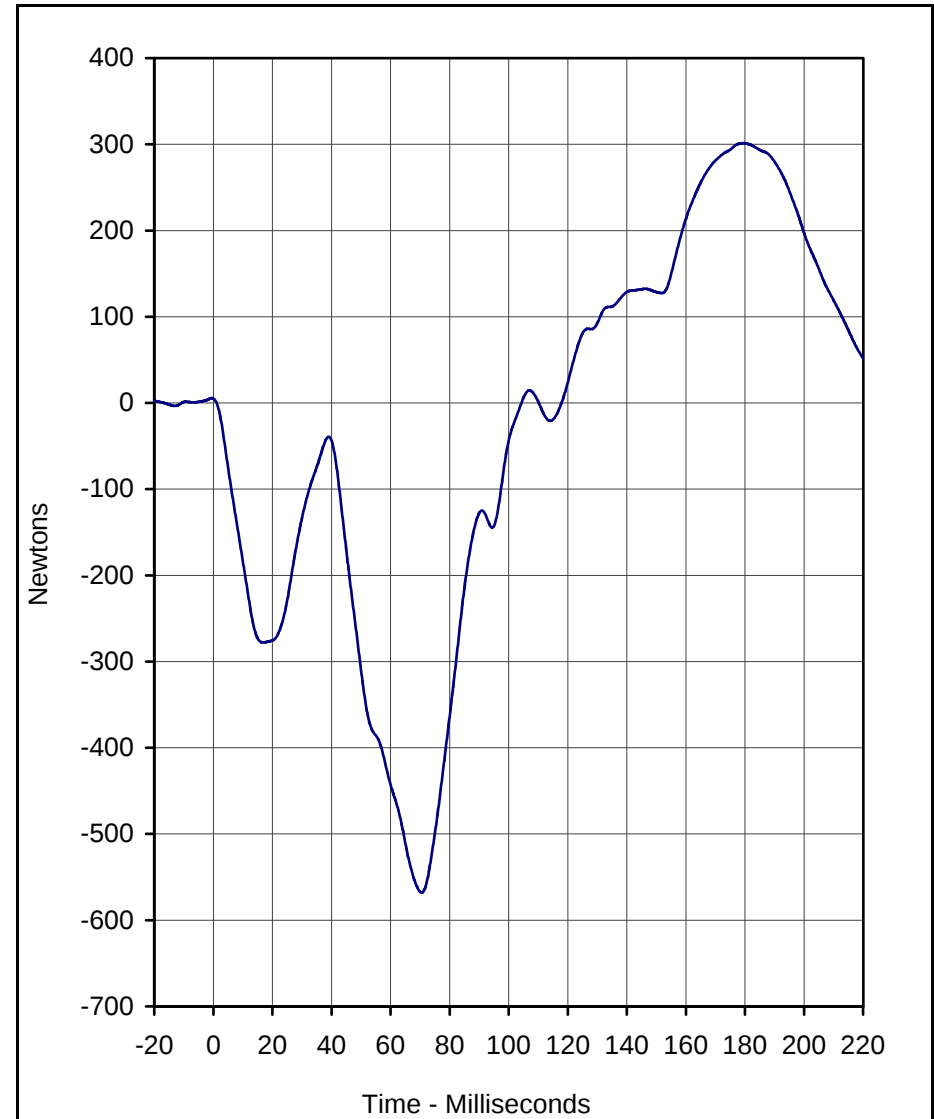
KAR22072-01



Curve Description	CURNO	Type
Pendulum Deceleration	001	FIL

Units	Max	Time	Min	Time	SAE Class
G's	18.4	9.0	-1.5	56.6	60

Test Program: Hybrid III 50th Percentile Male Neck Extension Test
 Test Date: 6/11/02

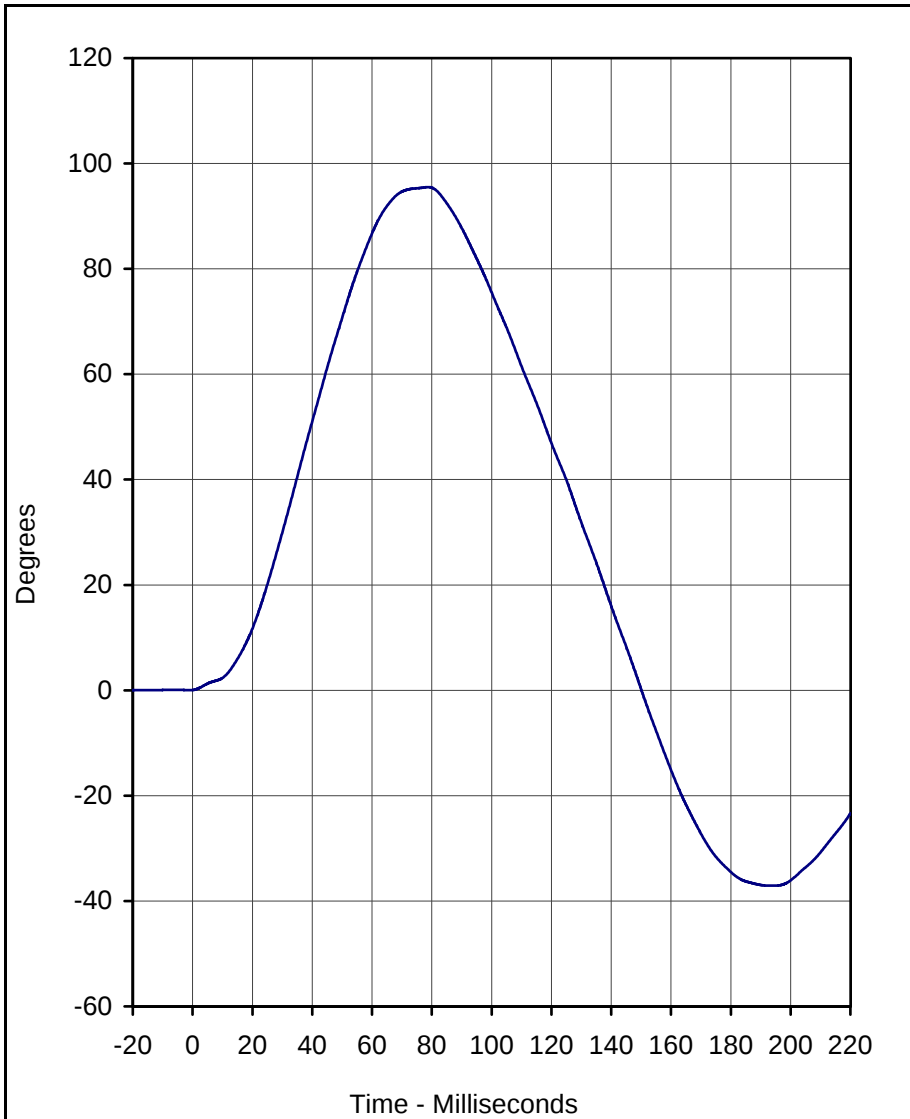


Curve Description	CURNO	Type
Neck Force X	002	FIL

Units	Max	Time	Min	Time	SAE Class
Newtons	301.2	179.4	-568.0	70.5	60

A.T.D. Serial No.: 034
 Test I.D.: NE07B

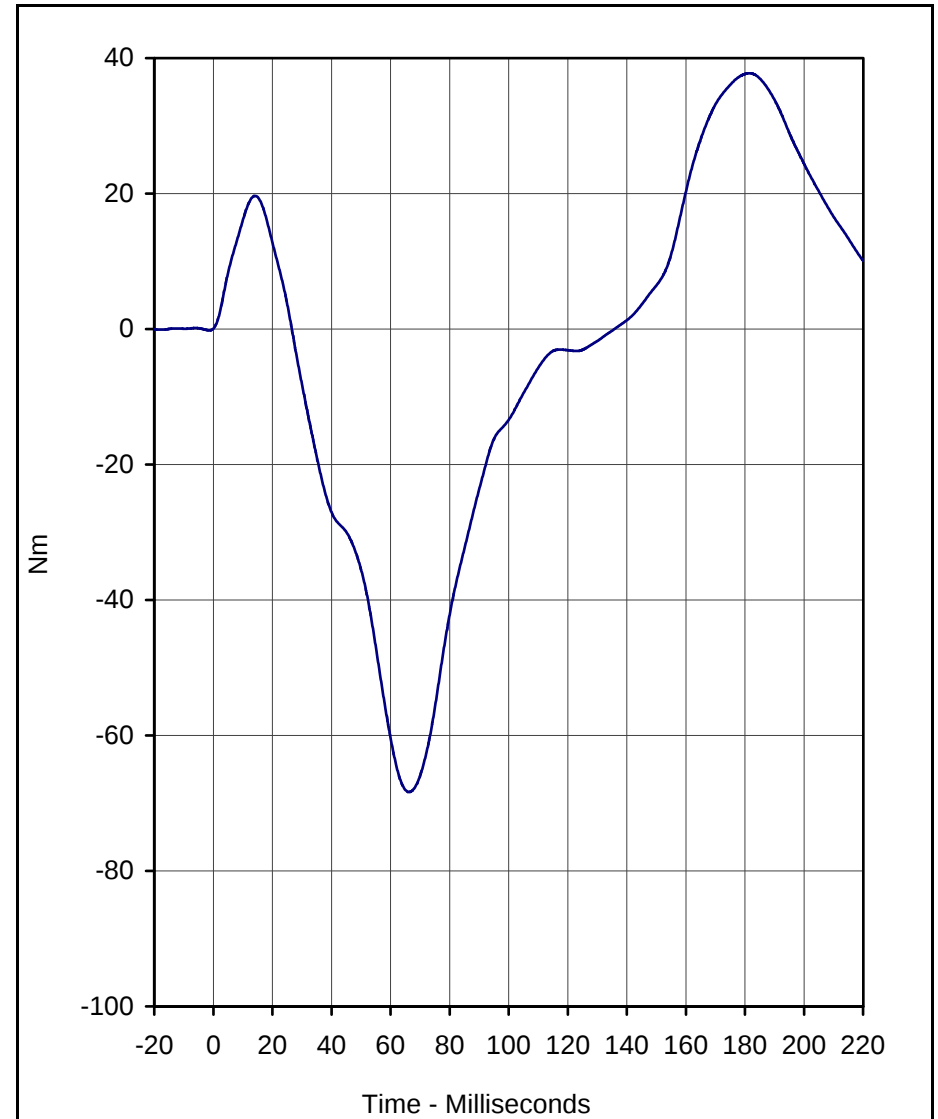




Curve Description	CURNO	Type
"D" Plane Rotation	003	FIL

Units	Max	Time	Min	Time	SAE Class
Degrees	95.5	78.7	-37.1	193.5	60

Test Program: Hybrid III 50th Percentile Male Neck Extension Test
 Test Date: 6/11/02



Curve Description	CURNO	Type
Moment About Occipital Condyle	004	FIL

Units	Max	Time	Min	Time	SAE Class
Nm	37.8	181.5	-68.4	66.3	60

A.T.D. Serial No.: 034
 Test I.D.: NE07B





Calibration Data Sheet Hybrid III 50th Percentile Male External Measurements

ATD Serial No.: 034

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
A - Total sitting height	mm	879 to 889	885	Pass
B - Shoulder pivot height	mm	505 to 521	515	Pass
C - "H" point height	mm	84 to 89	85	Pass
D - "H" point from seat back	mm	135 to 140	135	Pass
E - Shoulder pivot from back	mm	84 to 94	90	Pass
F - Thigh clearance	mm	140 to 155	150	Pass
G - Elbow back to wrist pivot	mm	290 to 305	295	Pass
H - Skull cap to back line	mm	41 to 46	45	Pass
I - Shoulder to elbow length	mm	330 to 345	340	Pass
J - Elbow rest height	mm	190 to 211	195	Pass
K - Buttock to knee length	mm	579 to 604	600	Pass
L - Popliteal length	mm	429 to 455	440	Pass
M - Knee pivot height	mm	485 to 500	495	Pass
N - Buttock popliteal length	mm	452 to 477	475	Pass
O - Chest depth	mm	213 to 229	225	Pass
P - Foot length	mm	251 to 267	260	Pass
V - Shoulder breadth	mm	422 to 437	435	Pass
W - Foot breadth	mm	91 to 107	100	Pass
Y - Chest circumference	mm	970 to 1001	985	Pass
Z - Waist circumference	mm	836 to 866	840	Pass
AA - Location for chest circumference	mm	429 to 434	430	Pass
BB - Location for waist circumference	mm	226 to 231	230	Pass
Overall Test Results			Pass	

Laboratory Technician

June 11, 2002

Test Date



Calibration Data Sheet

Hybrid III 50th Percentile Male

Knee Impact Test

ATD Serial No.: 035

Location: Left Knee

Test I.D.: LK07A

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.6	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Pendulum Velocity at T=0	m/sec	2.07 to 2.13	2.08	Pass
Peak Probe Force	N	4715 to 5782	5434	Pass
Overall Test Results				Pass

ATD Serial No.: 035

Location: Right Knee

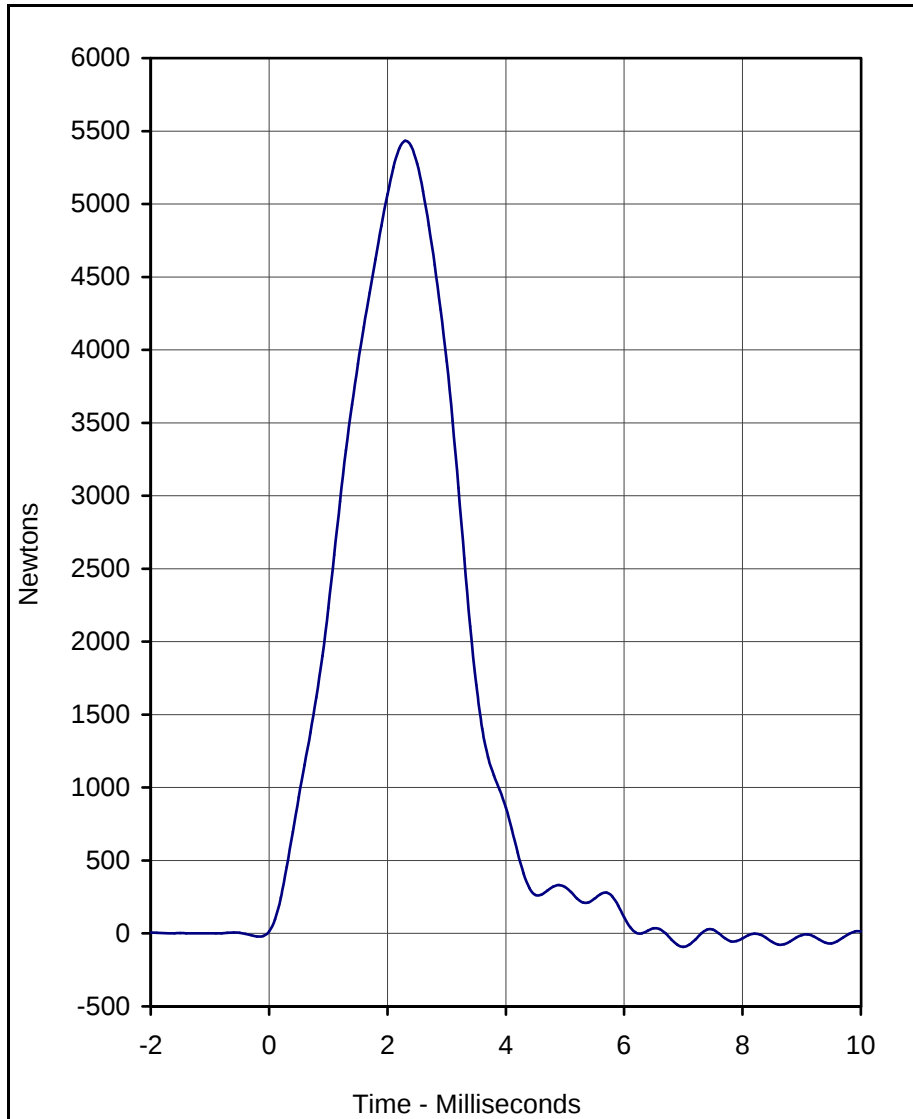
Test I.D.: RK07A

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.6	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Pendulum Velocity at T=0	m/sec	2.07 to 2.13	2.13	Pass
Peak Probe Force	N	4715 to 5782	5455	Pass
Overall Test Results				Pass

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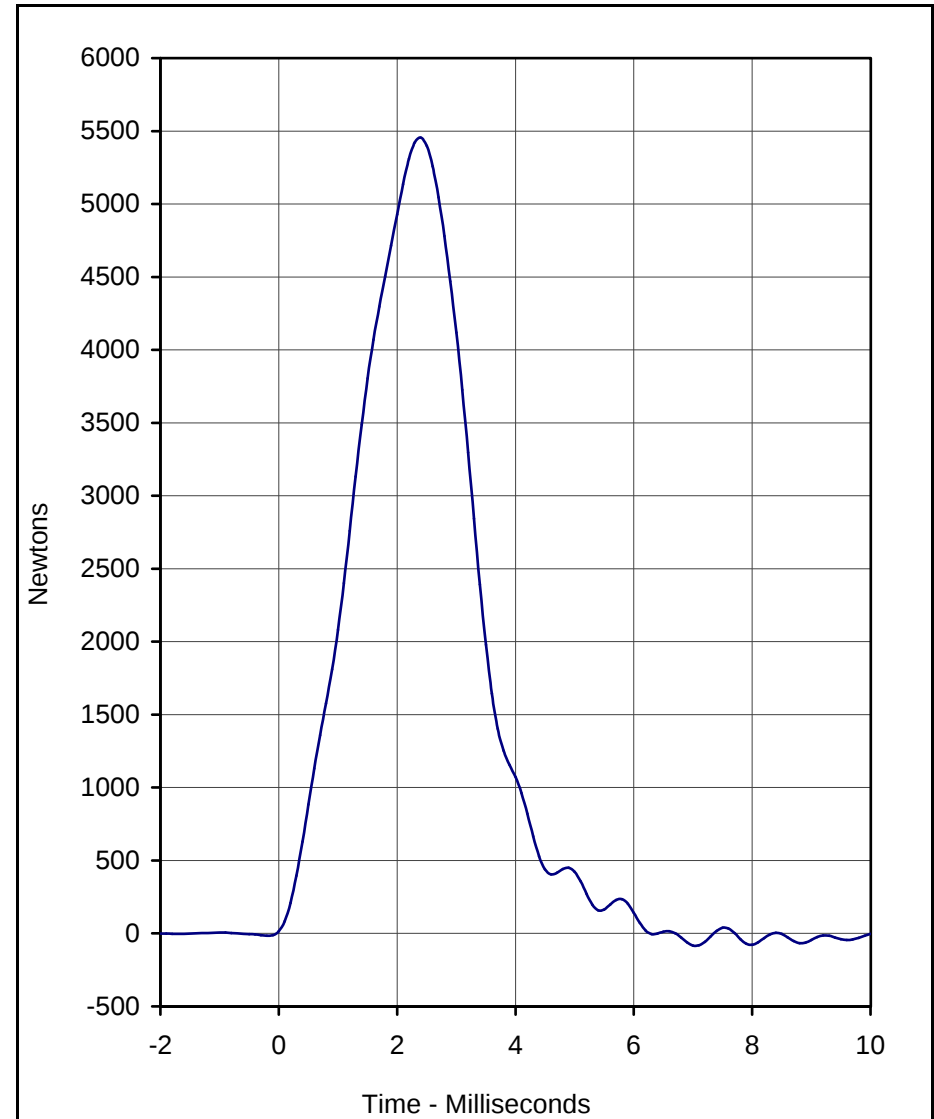
Test Date



Curve Description	Location	Test I.D.	CURNO	Type
Probe Force	Left Knee	LK07A	001	FIL

Units	Max	Time	Min	Time	SAE Class
Newtons	5433.5	2.3	-92.8	7.0	600

Test Program: Hybrid III 50th Percentile Male Knee Impact Test
 Test Date: 6/11/02



Curve Description	Location	Test I.D.	CURNO	Type
Probe Force	Right Knee	RK07A	002	FIL

Units	Max	Time	Min	Time	SAE Class
Newtons	5455.1	2.4	-82.9	7.0	600

A.T.D. Serial No.: 035





Calibration Data Sheet

Hybrid III 50th Percentile Male

Head Drop Test

ATD Serial No.: 035

Test I.D.: HD07A

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.6	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Peak Resultant Acceleration	G's	225.0 to 275.0	234.1	Pass
Peak Lateral Acceleration	G's	≤15.0	3.7	Pass
Is Acceleration Unimodal?	Yes/No	Yes	Yes	Pass
Overall Test Results				Pass

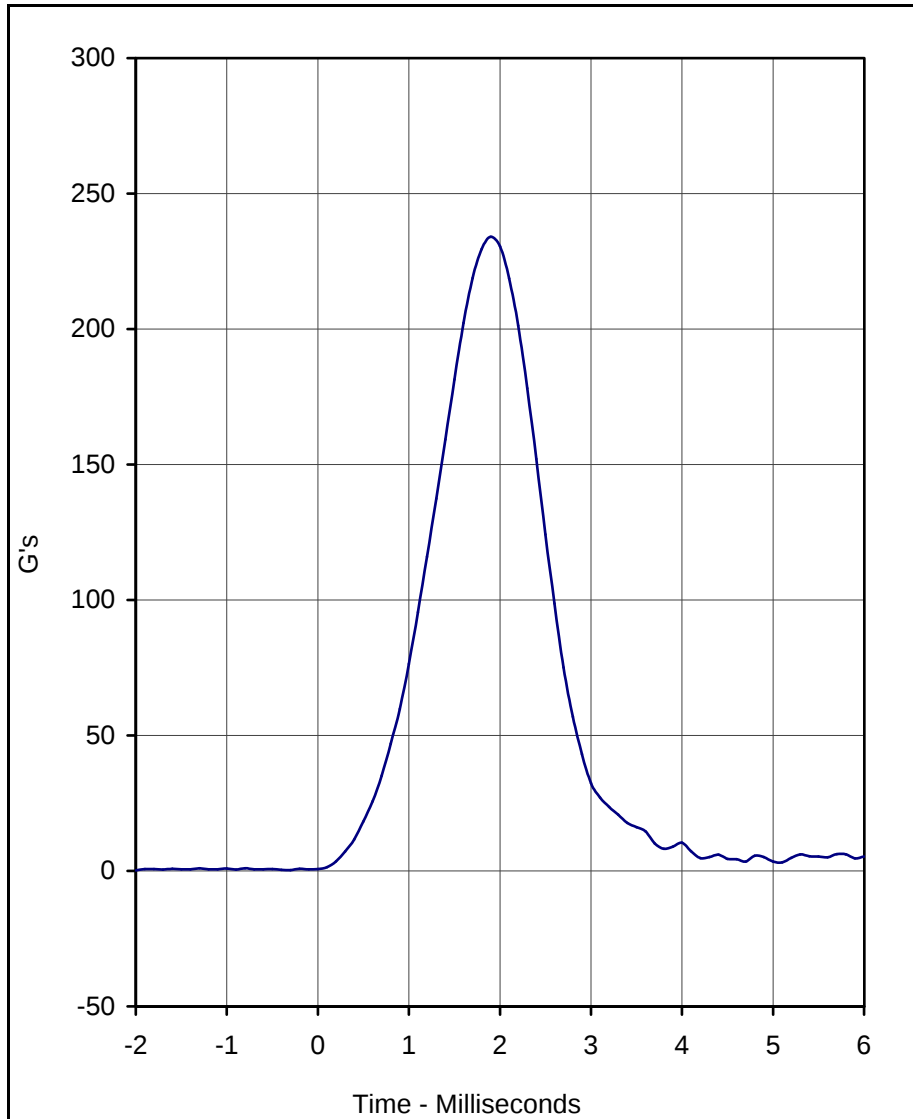
E-16

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Laboratory Technician

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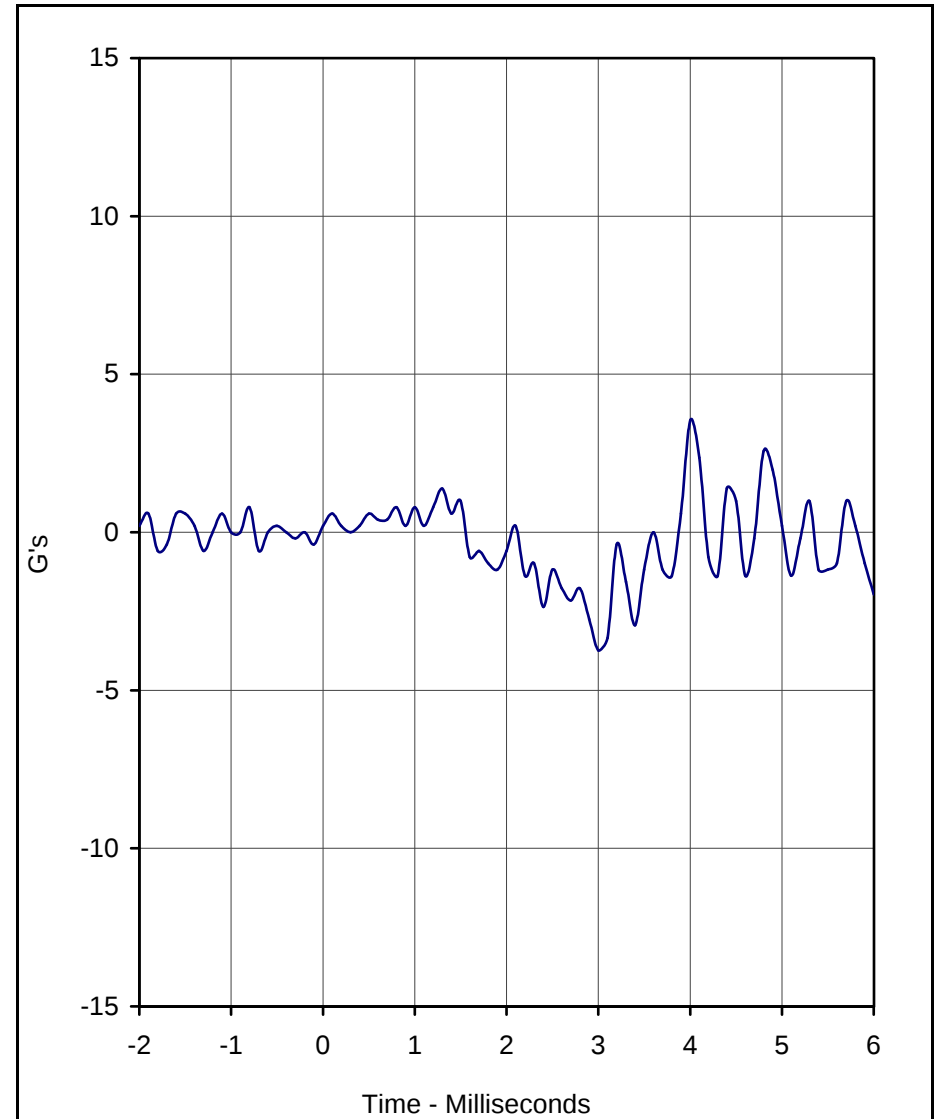
Test Date



Curve Description	CURNO	Type
Head Resultant	001	RES

Units	Max	Time	Min	Time	SAE Class
G's	234.1	1.9	0.2	-2.0	1000

Test Program: Hybrid III 50th Percentile Male Head Drop Test
 Test Date: 6/11/02



Curve Description	CURNO	Type
Head Y	002	FIL

Units	Max	Time	Min	Time	SAE Class
G's	3.5	4.0	-3.7	3.0	1000

A.T.D. Serial No.: 035
 Test I.D.: HD07A





Calibration Data Sheet

Hybrid III 50th Percentile Male

Thorax Impact Test

ATD Serial No.: 035

Test I.D.: CH07A

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Probe Velocity	m/s	6.58 to 6.82	6.74	Pass
Peak Probe Force	Newtons	5159 to 5893	5291	Pass
Peak Sternum Displacement	CM	6.35 to 7.26	6.82	Pass
Internal Hysteresis	%	69 to 85	74.5	Pass
Overall Test Results				Pass

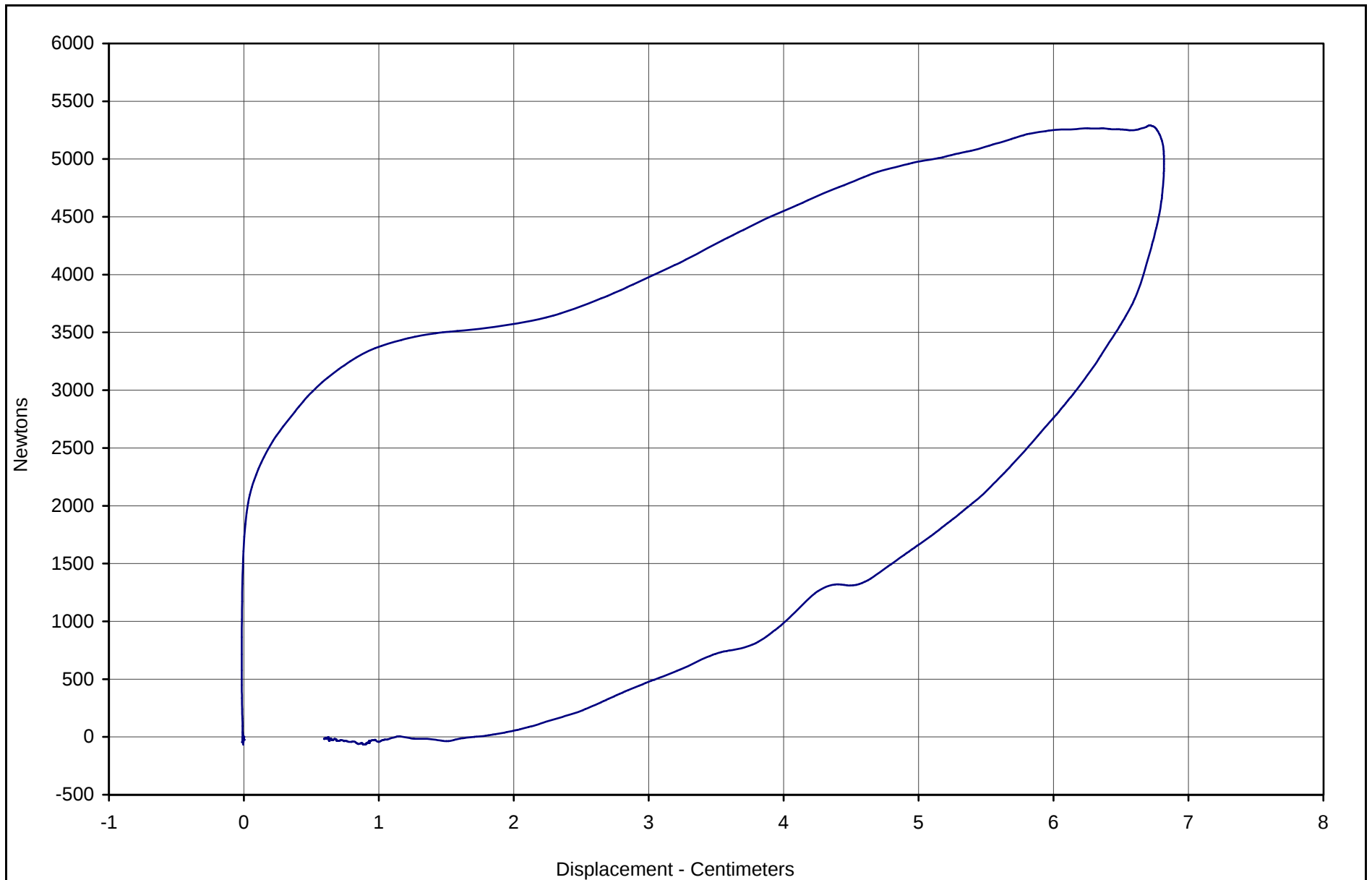
E-18

KAR22072-01

Laboratory Technician

June 11, 2002

Test Date



Curve Description	CURNO	Type	Hysteresis	Peak Chest Displ.	Peak Probe Force	SAE Class
Probe Force vs. Chest Displacement	001	FIL	74.5	6.82	5291.5	180

Test Program: Hybrid III 50th Percentile Male Thorax Impact

Test Date: 6/11/02

A.T.D. Serial No.: 035

Test I.D.: CH07A





Calibration Data Sheet

Hybrid III 50th Percentile Male

Neck Flexion Test

ATD Serial No.: 035

Test I.D.: NF07A

Tested Parameter		Units	Specification	Result	Pass/Fail
Laboratory Temperature		°C	20.6 to 22.2	21.1	Pass
Laboratory Relative Humidity		%	10 to 70	30	Pass
Pendulum Velocity		m/s	6.89 to 7.13	7.05	Pass
Pendulum Deceleration	10 Msec.	G's	22.5 to 27.5	23.8	Pass
	20 Msec.	G's	17.6 to 22.6	20.4	Pass
	30 Msec.	G's	12.5 to 18.5	18.5	Pass
Peak Pendulum Decel. after 30 Msec.		G's	≤ 29.0	18.5	Pass
Deceleration Decay, Time to Cross 5 G's		Msec.	34.0 to 42.0	38.4	Pass
Maximum "D" Plane Rotation	Maximum	Degrees	64.0 to 78.0	69.0	Pass
	Time	Msec.	57.0 to 64.0	60.6	Pass
"D" Plane Rotation Decay, Time To Zero Crossing		Msec.	113.0 to 128.0	113.8	Pass
Moment About Occipital Condyle	Maximum	Nm	84.1 to 108.5	88.5	Pass
	Time	Msec.	47.0 to 58.0	57.9	Pass
Positive Moment Decay, Time To Zero Crossing		Msec.	97.0 to 107.0	102.8	Pass
Overall Test Results					Pass

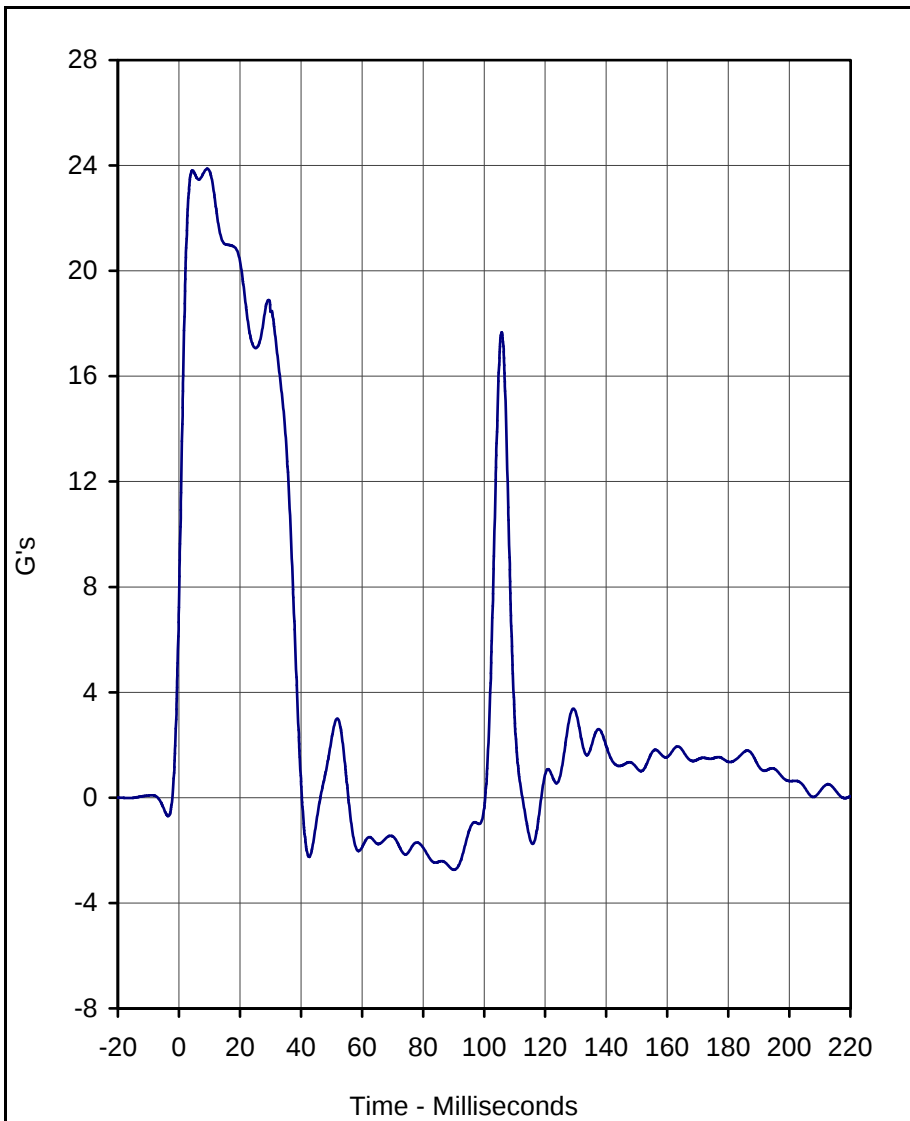
Laboratory Technician

June 11, 2002

Test Date

E-20

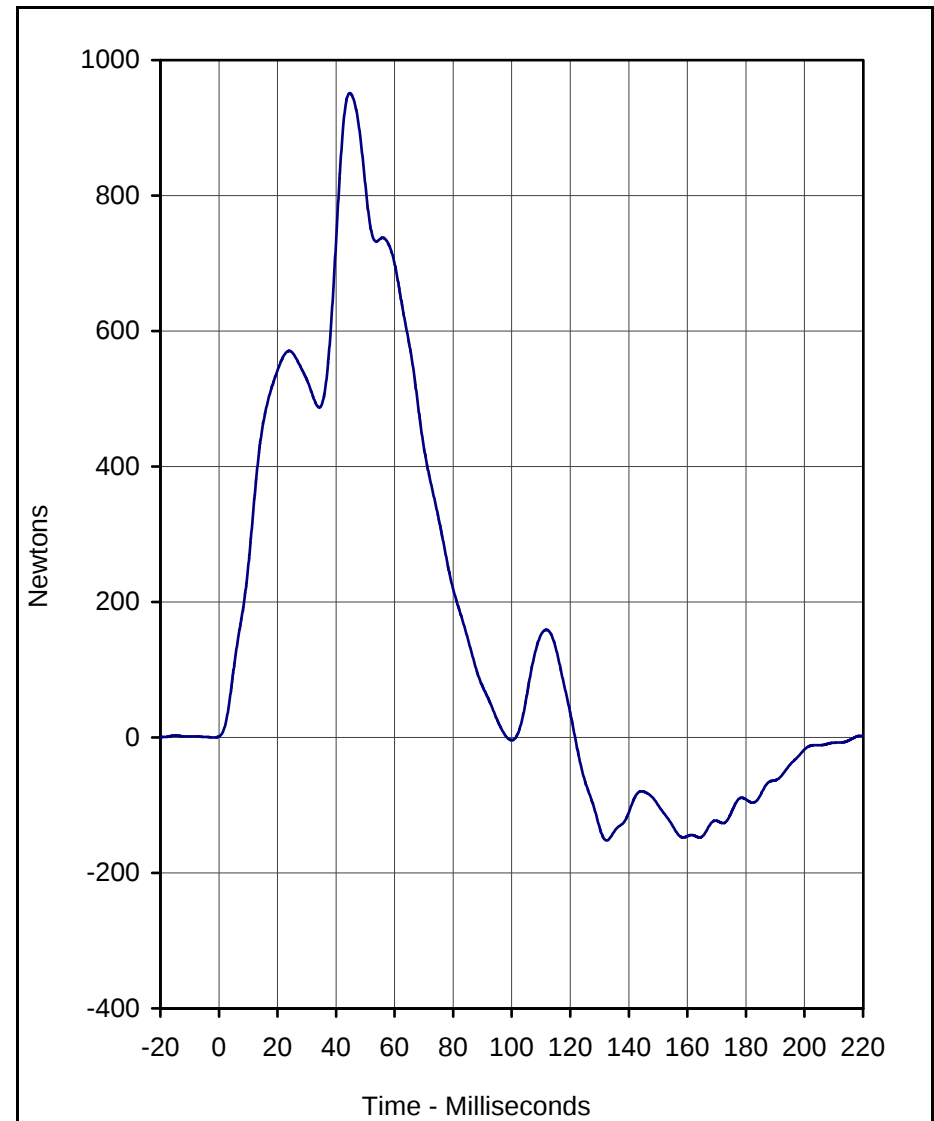
KAR22072-01



Curve Description	CURNO	Type
Pendulum Deceleration	001	FIL

Units	Max	Time	Min	Time	SAE Class
G's	23.9	9.3	-2.7	90.1	60

Test Program: Hybrid III 50th Percentile Male Neck Flexion Test
 Test Date: 6/11/02

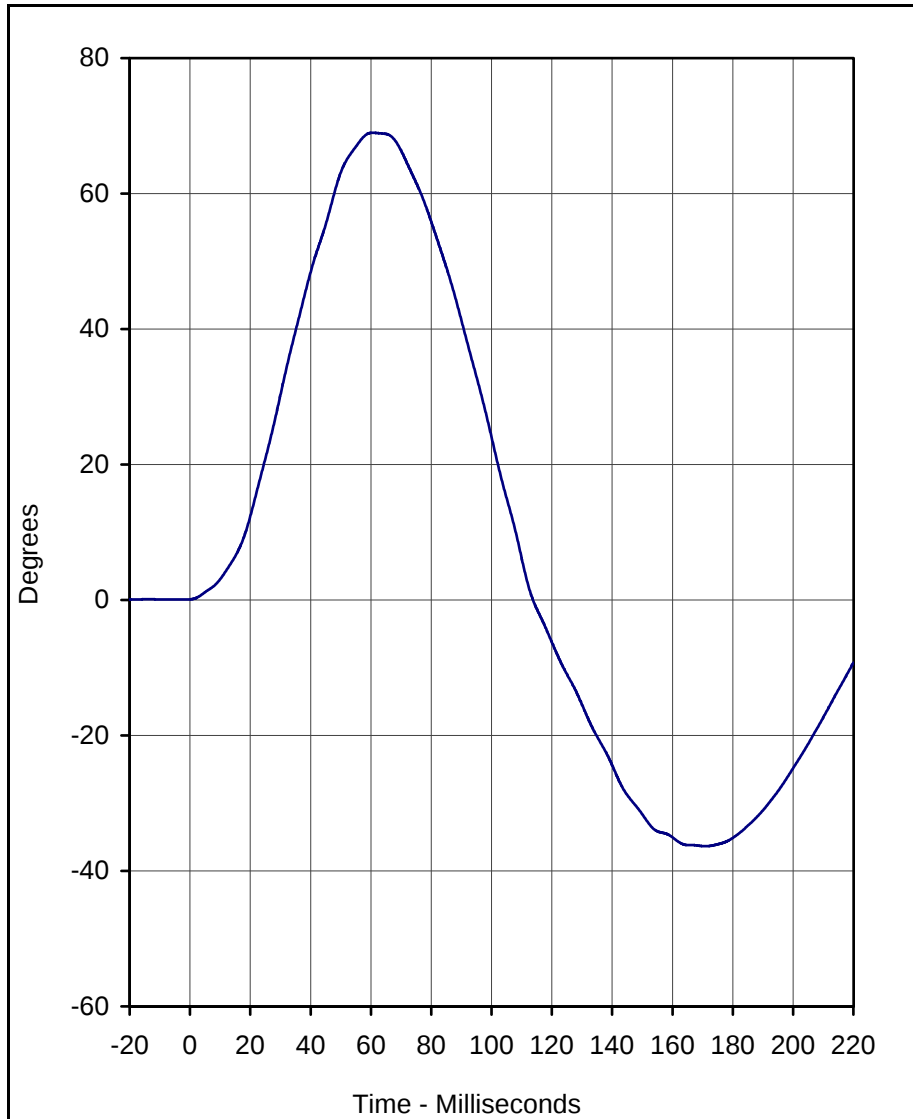


Curve Description	CURNO	Type
Neck Force X	002	FIL

Units	Max	Time	Min	Time	SAE Class
Newtons	951.3	44.7	-152.1	132.4	60

A.T.D. Serial No.: 035
 Test I.D.: NF07A

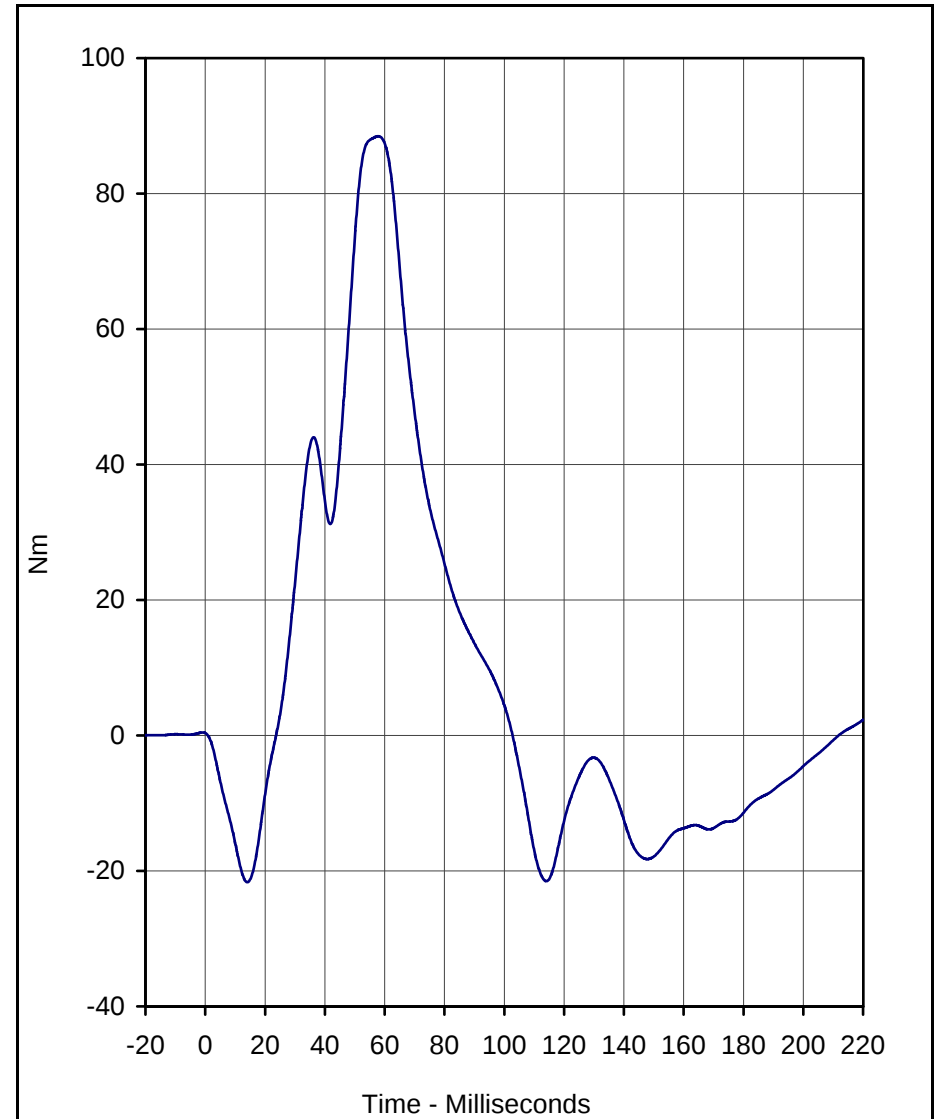




Curve Description	CURNO	Type
"D" Plane Rotation	003	FIL

Units	Max	Time	Min	Time	SAE Class
Degrees	69.0	60.6	-36.4	170.9	60

Test Program: Hybrid III 50th Percentile Male Neck Flexion Test
 Test Date: 6/11/02



Curve Description	CURNO	Type
Moment About Occipital Condyle	004	FIL

Units	Max	Time	Min	Time	SAE Class
Nm	88.5	57.9	-21.7	14.1	60

A.T.D. Serial No.: 035
 Test I.D.: NF07A





Calibration Data Sheet

Hybrid III 50th Percentile Male

Neck Extension Test

ATD Serial No.: 035

Test I.D.: NE07A

Tested Parameter		Units	Specification	Result	Pass/Fail
Laboratory Temperature		°C	20.6 to 22.2	21.1	Pass
Laboratory Relative Humidity		%	10 to 70	30	Pass
Pendulum Velocity		m/s	5.94 to 6.19	6.09	Pass
Pendulum Deceleration	10 Msec.	G's	17.2 to 21.2	18.1	Pass
	20 Msec.	G's	14.0 to 19.0	16.4	Pass
	30 Msec.	G's	11.0 to 16.0	12.0	Pass
Peak Pendulum Decel. after 30 Msec.		G's	≤ 22.0	12.0	Pass
Deceleration Decay, Time to Cross 5 G's		Msec.	38.0 to 46.0	43.5	Pass
Maximum "D" Plane Rotation	Maximum	Degrees	81.0 to 106.0	96.4	Pass
	Time	Msec.	72.0 to 82.0	81.7	Pass
"D" Plane Rotation Decay, Time To Zero Crossing		Msec.	147.0 to 174.0	156.0	Pass
Moment About Occipital Condyle	Maximum	Nm	-52.9 to- 79.9	-77.8	Pass
	Time	Msec.	65.0 to 79.0	68.4	Pass
Positive Moment Decay, Time To Zero Crossing		Msec.	120.0 to 148.0	137.6	Pass
Overall Test Results					Pass

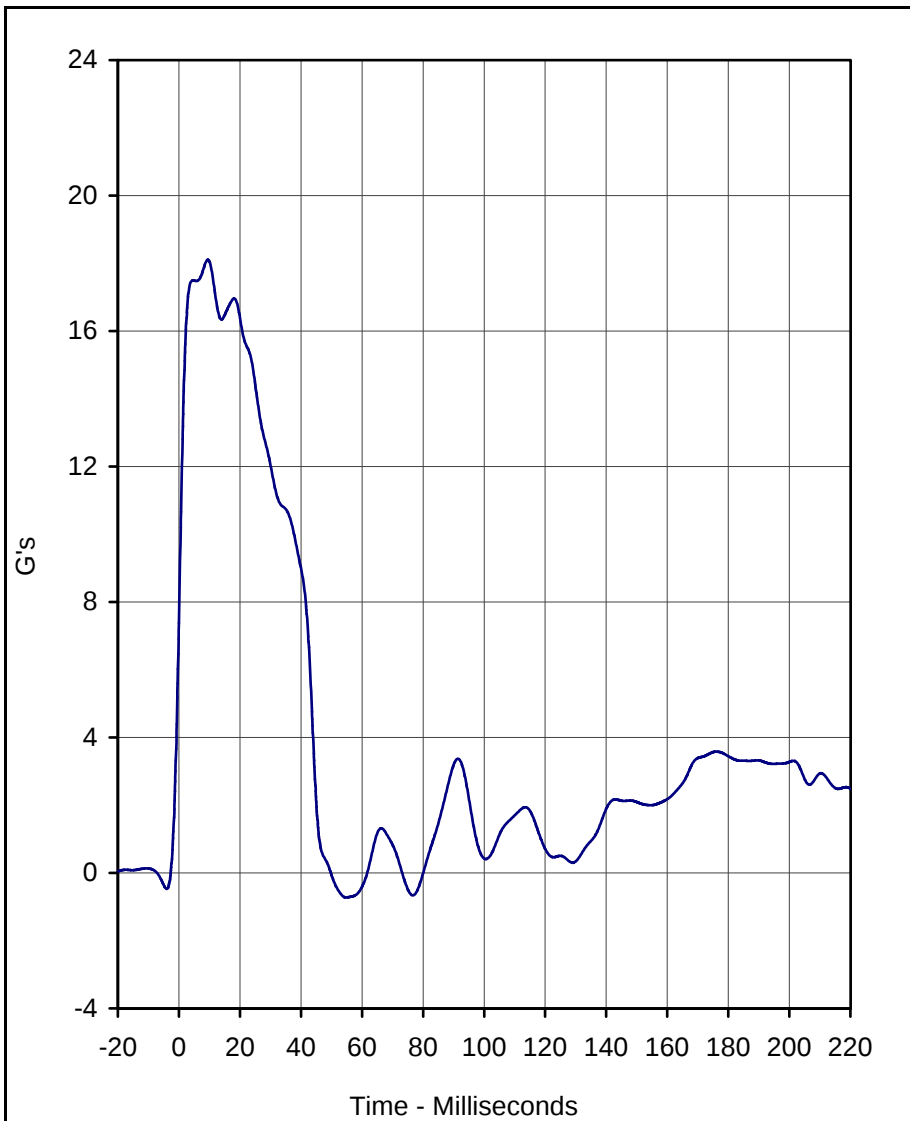
Laboratory Technician

June 11, 2002

Test Date

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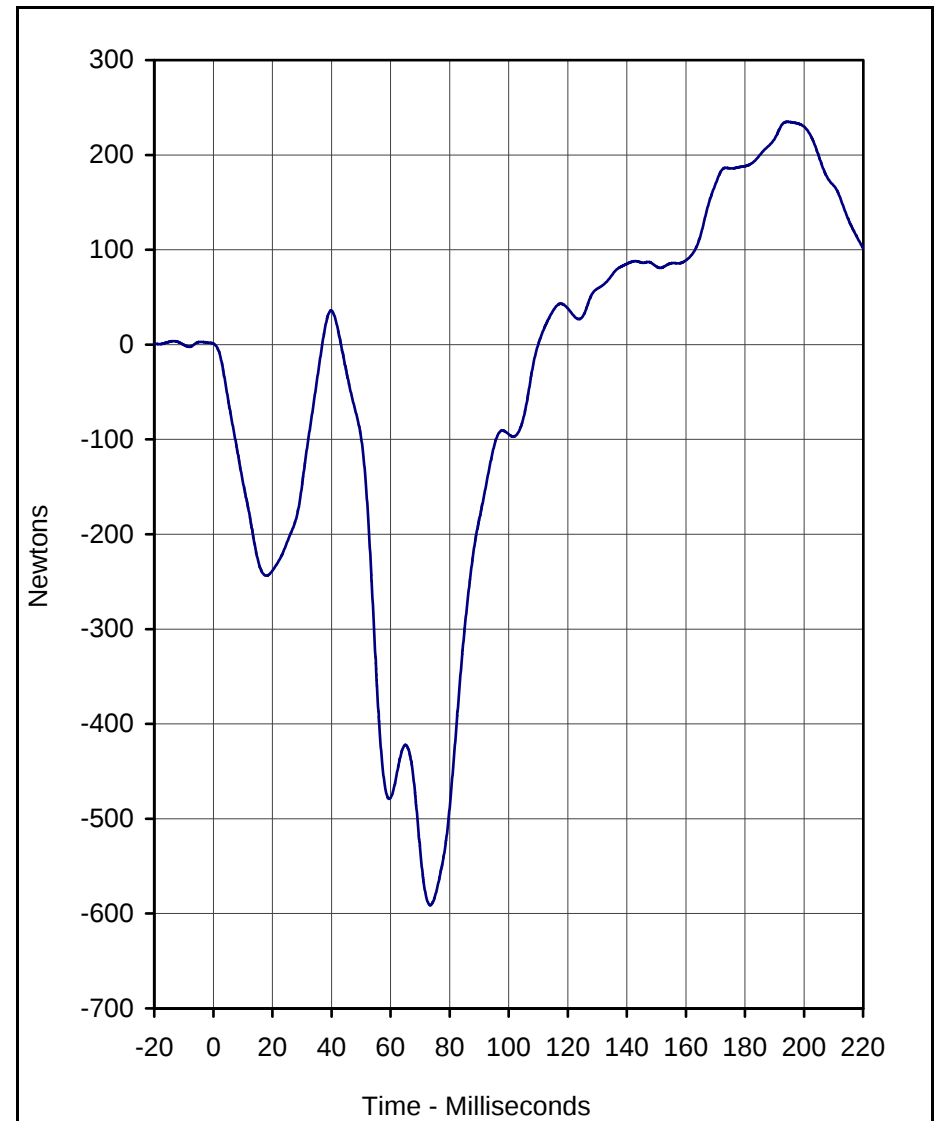
KAR22072-01



Curve Description	CURNO	Type
Pendulum Deceleration	001	FIL

Units	Max	Time	Min	Time	SAE Class
G's	18.1	9.5	-0.7	54.8	60

Test Program: Hybrid III 50th Percentile Male Neck Extension Test
 Test Date: 6/11/02

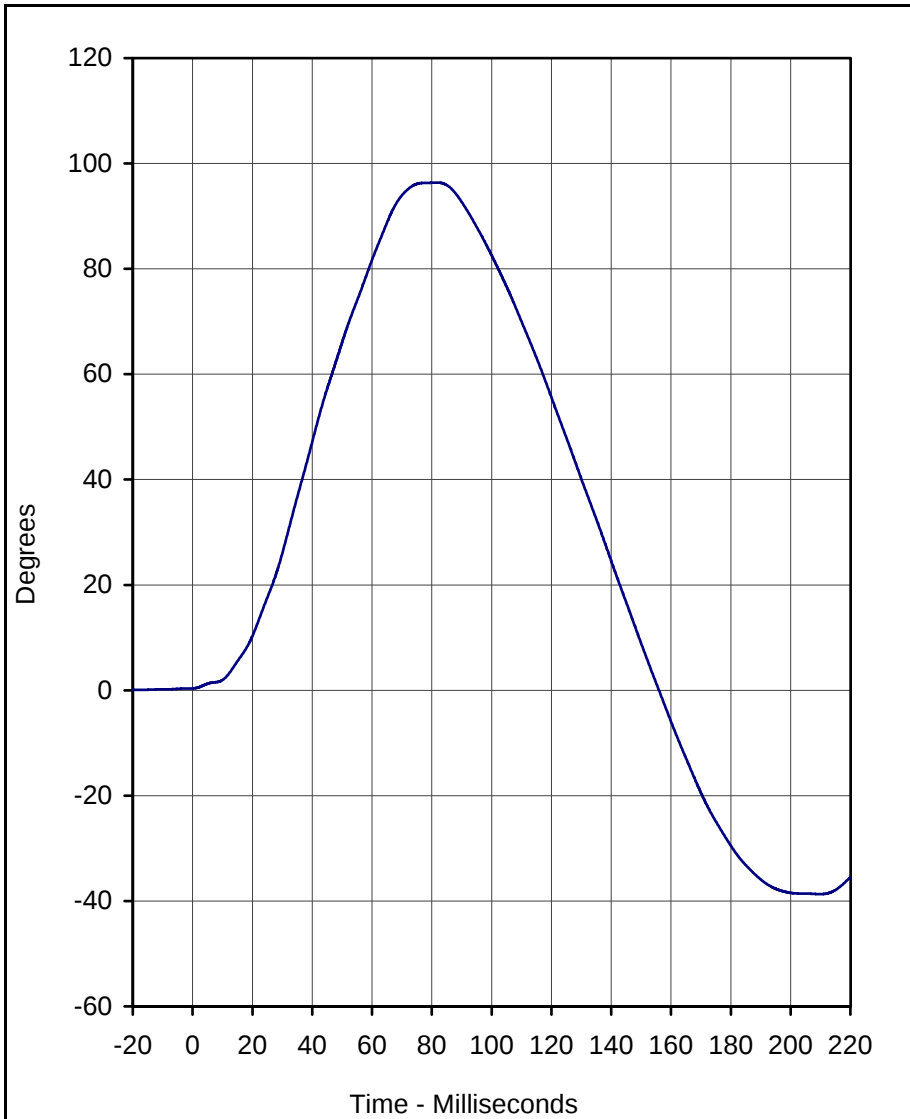


Curve Description	CURNO	Type
Neck Force X	002	FIL

Units	Max	Time	Min	Time	SAE Class
Newtons	234.9	194.4	-591.1	73.4	60

A.T.D. Serial No.: 035
 Test I.D.: NE07A

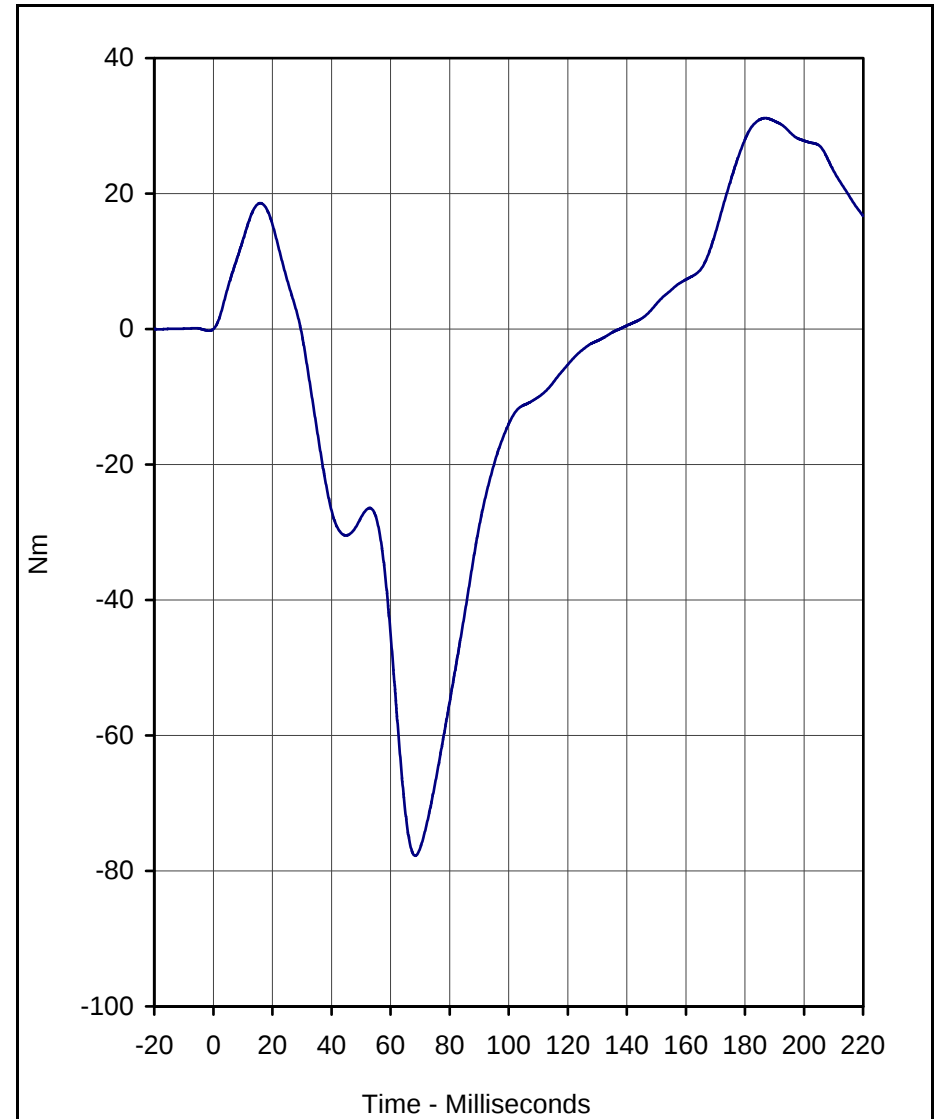




Curve Description	CURNO	Type
"D" Plane Rotation	003	FIL

Units	Max	Time	Min	Time	SAE Class
Degrees	96.4	81.7	-38.7	209.9	60

Test Program: Hybrid III 50th Percentile Male Neck Extension Test
 Test Date: 6/11/02



Curve Description	CURNO	Type
Moment About Occipital Condyle	004	FIL

Units	Max	Time	Min	Time	SAE Class
Nm	31.1	186.9	-77.8	68.4	60

A.T.D. Serial No.: 035
 Test I.D.: NE07A





Calibration Data Sheet

Hybrid III 50th Percentile Male

External Measurements

ATD Serial No.: 035

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	20.6 to 22.2	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
A - Total sitting height	mm	879 to 889	885	Pass
B - Shoulder pivot height	mm	505 to 521	510	Pass
C - "H" point height	mm	84 to 89	85	Pass
D - "H" point from seat back	mm	135 to 140	135	Pass
E - Shoulder pivot from back	mm	84 to 94	85	Pass
F - Thigh clearance	mm	140 to 155	145	Pass
G - Elbow back to wrist pivot	mm	290 to 305	300	Pass
H - Skull cap to back line	mm	41 to 46	45	Pass
I - Shoulder to elbow length	mm	330 to 345	340	Pass
J - Elbow rest height	mm	190 to 211	195	Pass
K - Buttock to knee length	mm	579 to 604	595	Pass
L - Popliteal length	mm	429 to 455	435	Pass
M - Knee pivot height	mm	485 to 500	495	Pass
N - Buttock popliteal length	mm	452 to 477	470	Pass
O - Chest depth	mm	213 to 229	225	Pass
P - Foot length	mm	251 to 267	265	Pass
V - Shoulder breadth	mm	422 to 437	435	Pass
W - Foot breadth	mm	91 to 107	95	Pass
Y - Chest circumference	mm	970 to 1001	1000	Pass
Z - Waist circumference	mm	836 to 866	860	Pass
AA - Location for chest circumference	mm	429 to 434	430	Pass
BB - Location for waist circumference	mm	226 to 231	230	Pass
Overall Test Results			Pass	

Laboratory Technician

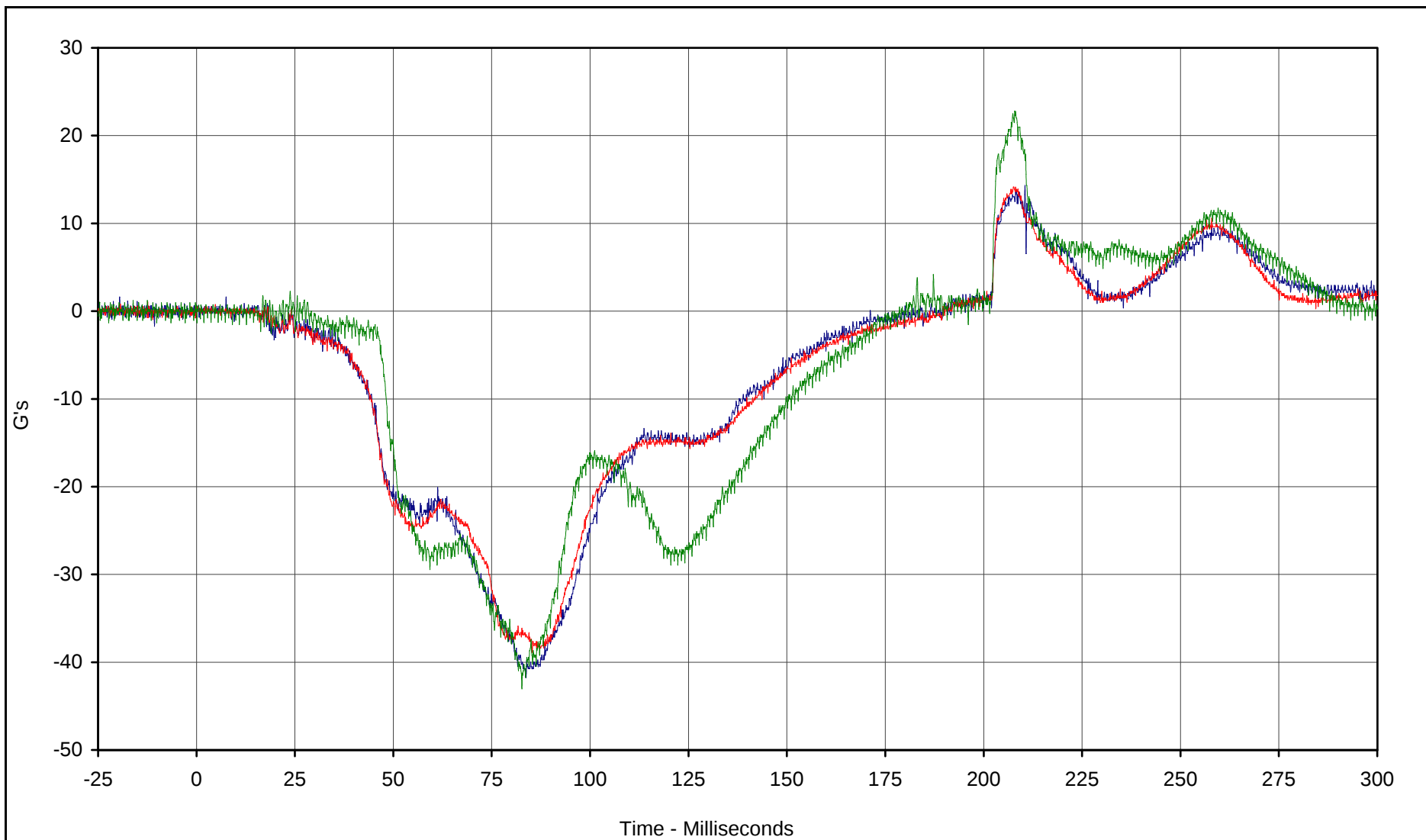
June 11, 2002

Test Date

APPENDIX G

NINE ACCELEROMETER HEAD ARRAY DATA

G-1



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Head Primary X	134	FIL	G's	14.3	210.5	-41.8	83.7	1000
Driver NAHA Yarm-X	138	FIL	G's	14.1	207.5	-38.9	85.3	1000
Driver NAHA Zarm-X	141	FIL	G's	22.8	207.9	-43.0	82.7	1000



Test Vehicle: 2003 Honda Pilot 4WD SUV

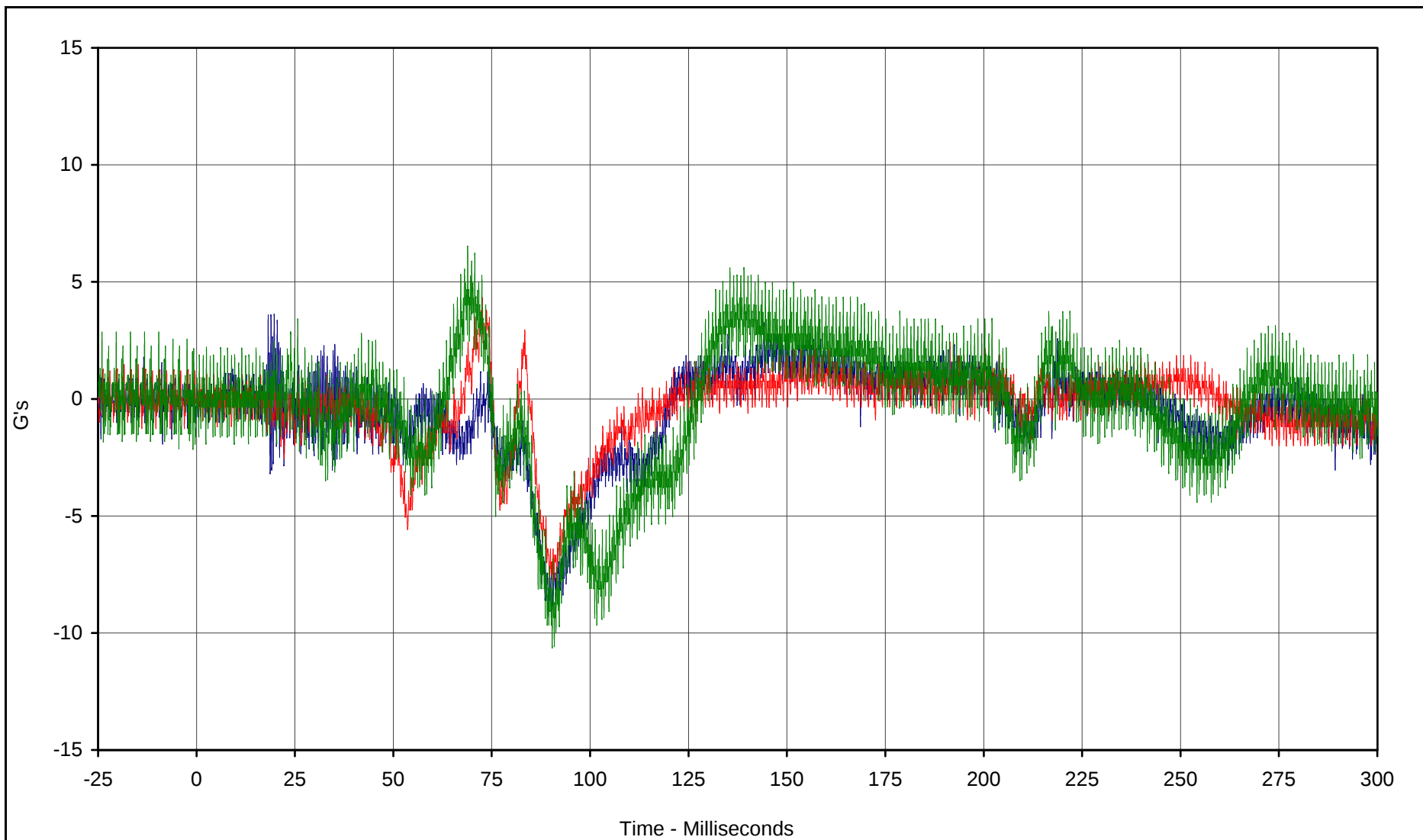
Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01

G-2



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Head Primary Y	135	FIL	G's	3.6	18.2	-9.3	89.5	1000
Driver NAHA Xarm-Y	140	FIL	G's	4.3	72.6	-7.8	89.7	1000
Driver NAHA Zarm-Y	142	FIL	G's	6.5	68.9	-10.6	90.4	1000



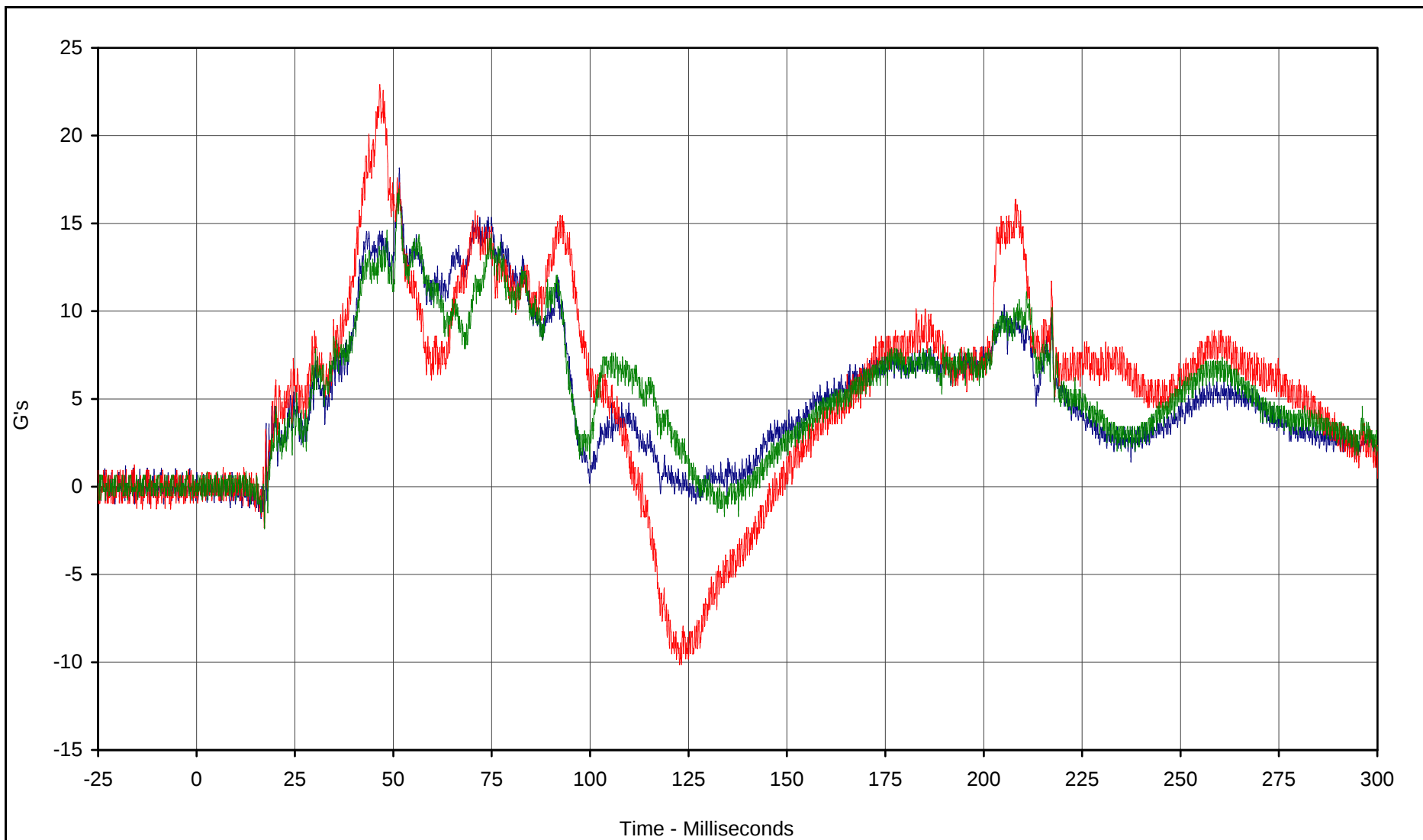
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Head Primary Z	136	FIL	G's	18.1	51.5	-1.8	16.4	1000
Driver NAHA Xarm-Z	139	FIL	G's	22.9	46.5	-10.1	122.7	1000
Driver NAHA Yarm-Z	137	FIL	G's	16.9	51.4	-2.4	17.3	1000



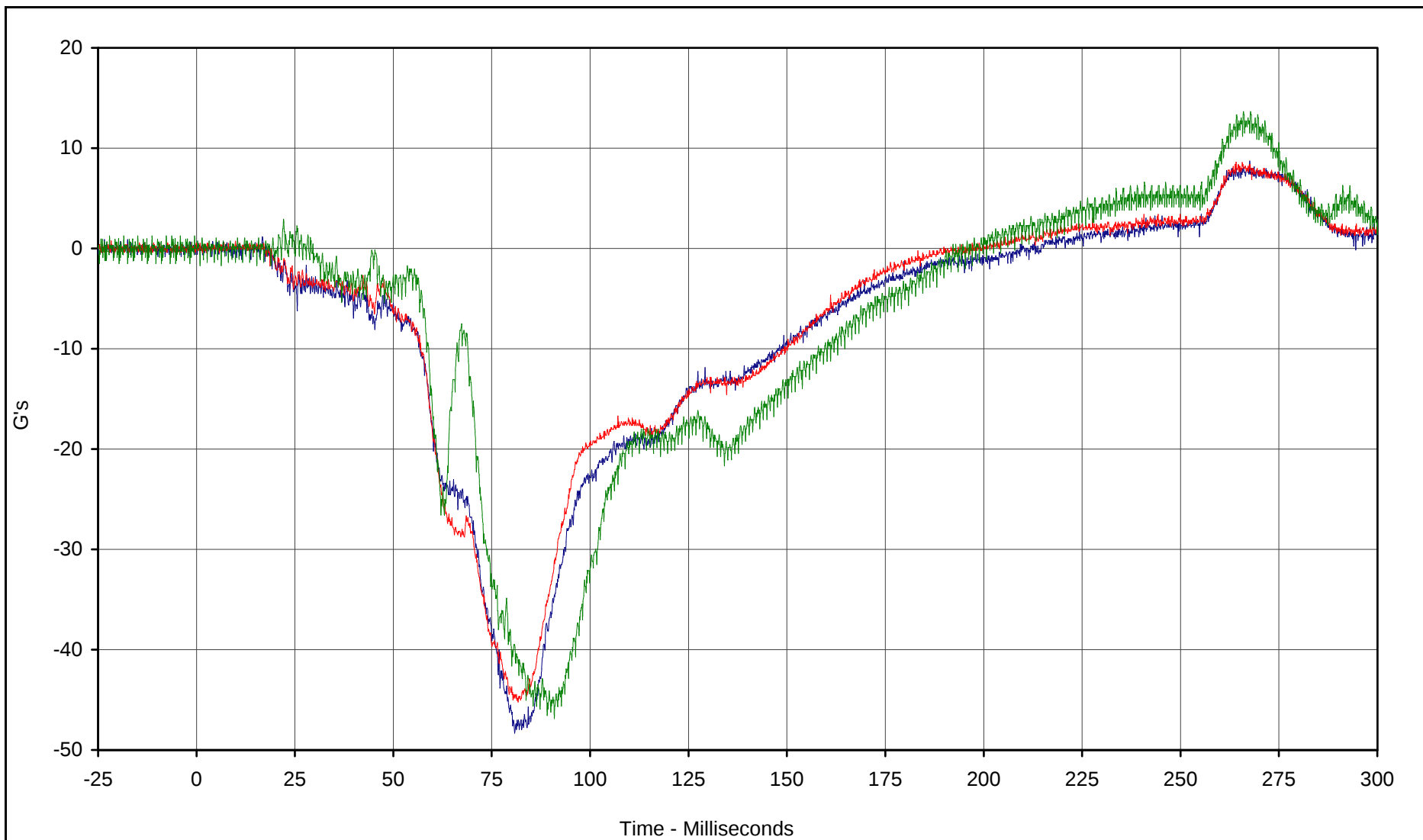
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

G-4



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Head Primary X	143	FIL	G's	8.7	267.6	-48.3	80.8	1000
Passenger NAHA Yarm-X	147	FIL	G's	8.6	264.1	-45.2	81.7	1000
Passenger NAHA Zarm-X	150	FIL	G's	13.6	266.0	-46.9	90.9	1000



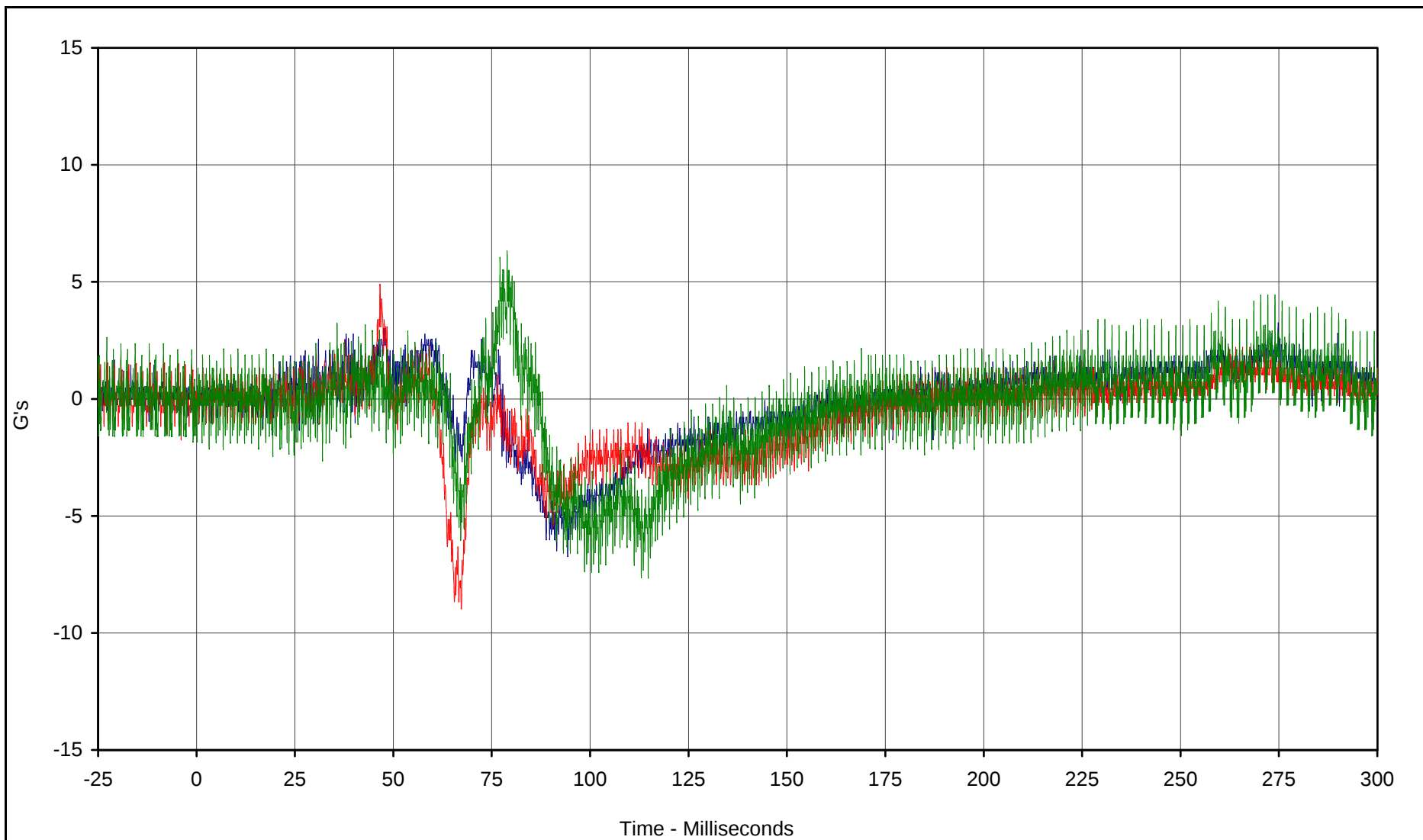
Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

KAR22072-01



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Head Primary Y	144	FIL	G's	3.3	274.8	-6.7	94.3	1000
Passenger NAHA Xarm-Y	149	FIL	G's	4.9	46.6	-9.0	67.2	1000
Passenger NAHA Zarm-Y	151	FIL	G's	6.3	78.9	-7.6	113.0	1000

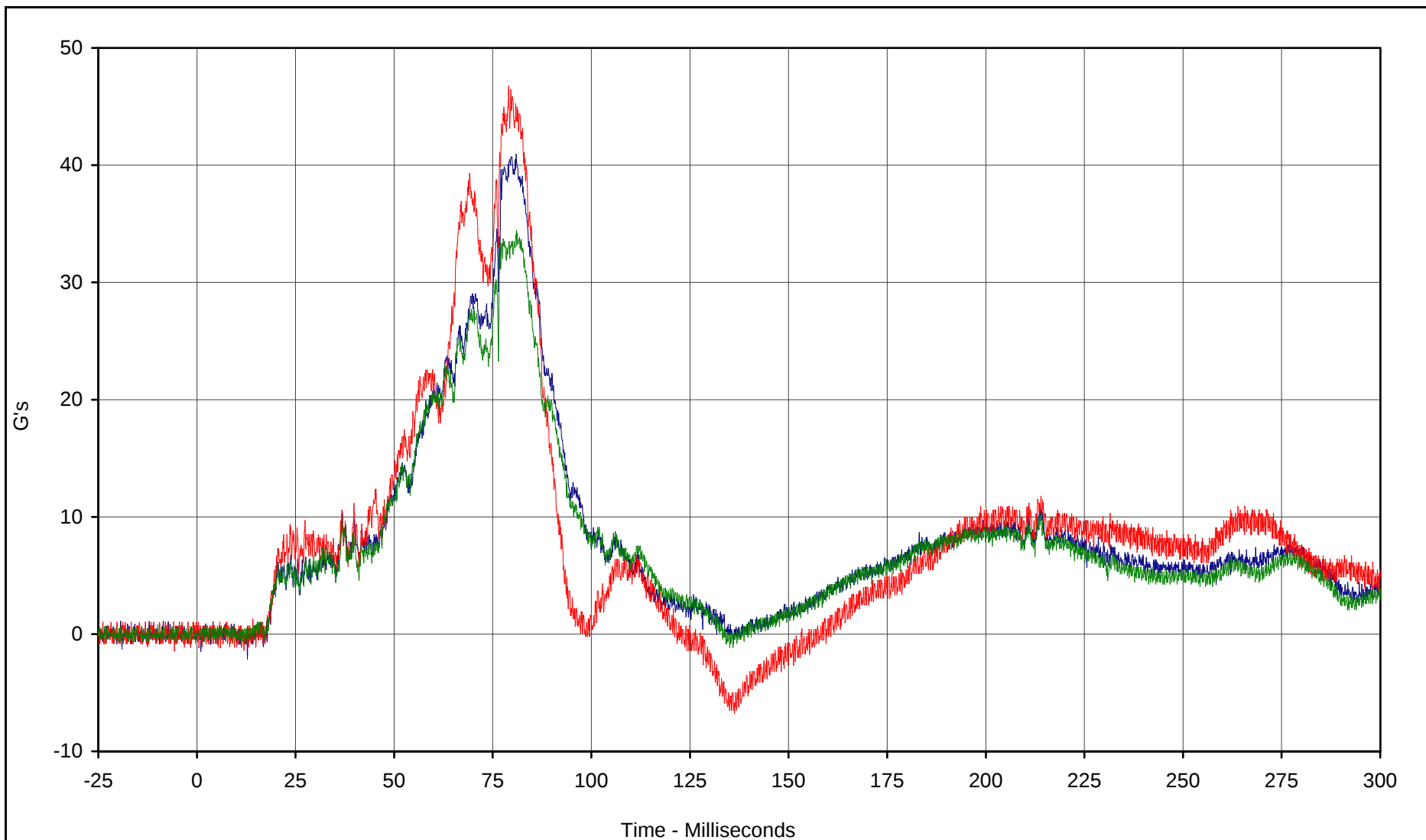


Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Passenger Head Primary Z	145	FIL	G's	40.9	80.9	-2.1	12.8	1000
Passenger NAHA Xarm-Z	148	FIL	G's	46.8	79.0	-6.8	136.3	1000
Passenger NAHA Yarm-Z	146	FIL	G's	34.4	81.0	-1.2	135.1	1000

Test Vehicle: 2003 Honda Pilot 4WD SUV

Test Date: 6/26/02

Test Program: 2002 NHTSA 35mph NCAP

NHTSA No.: HO5303

