

REPORT NUMBER TR-P23003-03-NC

**NEW CAR ASSESSMENT PROGRAM
SIDE IMPACT TEST**

**FORD MOTOR COMPANY
2003 FORD CROWN VICTORIA
4- DOOR SEDAN**

NHTSA NUMBER: M30201

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FINAL REPORT

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16. Abstract A 55/28 km/h 90 deg. Moving Deformable Barrier Side Impact NCAP Test was conducted on the subject 2003 Ford Crown Victoria 4 Door Sedan in accordance with the specifications of the Office of Crash Worthiness Standards Test Procedure for the generation of consumer information on vehicle side crash protection. The test was conducted at KARCO Engineering laboratories in Adelanto, California, on November 12, 2002. The impact velocity of the Moving Deformable Barrier was 61.77 km/h, and the outside ambient temperature at the struck (driver's) side of the vehicle was 18.8 deg. C. The target vehicle's maximum post test static crush was 468 mm located at level 3. The test vehicle's occupant performance 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: 30%;">Driver SID</th> <th style="width: 35%;">Passenger SID</th> </tr> </thead> <tbody> <tr> <td>Left Upper Rib (LUR) G's</td> <td style="text-align: center;">65.1</td> <td style="text-align: center;">40.3</td> </tr> <tr> <td>Left Lower Rib (LLR) G's</td> <td style="text-align: center;">58.1</td> <td style="text-align: center;">57.8</td> </tr> <tr> <td>Lower Spine (T₁₂) G's</td> <td style="text-align: center;">68.7</td> <td style="text-align: center;">54.4</td> </tr> <tr> <td>Thoracic Trauma Index (TTI) G's</td> <td style="text-align: center;">67</td> <td style="text-align: center;">56</td> </tr> <tr> <td>Pelvis (PEV) G's</td> <td style="text-align: center;">72</td> <td style="text-align: center;">81</td> </tr> </tbody> </table>				Measurement Description	Driver SID	Passenger SID	Left Upper Rib (LUR) G's	65.1	40.3	Left Lower Rib (LLR) G's	58.1	57.8	Lower Spine (T ₁₂) G's	68.7	54.4	Thoracic Trauma Index (TTI) G's	67	56	Pelvis (PEV) G's	72	81
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17. Key Words New Car Assessment Program (NCAP) Side Impact Moving Deformable Barrier (MDB) Side Impact Dummy (SID)		18. Distribution Statement Copies of this report are available from: National Highway Traffic Safety Admin. NHTSA Technical Reference Division 400 Seventh St., SW, Room 5108 Washington, DC 20590																			
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SECTION 1

PURPOSE and TEST PROCEDURE

1.1 PURPOSE

This Side Impact NCAP test is conducted as part of the FY' 2003 test program sponsored by the National Highway Traffic Safety Administration (NHTSA), under contract No. DTNH22-99-D-02041. The purpose of this test is to generate comparative side impact data on a 2003 Ford Crown Victoria 4 Door Sedan manufactured by Ford Motor Company.

1.2 TEST PROCEDURE

The side impact test was conducted in accordance with the current National Highway Traffic Safety Administration (NHTSA), Office of Crashworthiness Standards (OCS), laboratory test procedure NCAP Side Impact Testing, dated July 1997 and the corresponding KARCO Engineering Test Procedure KTP-214D, dated November 18, 1998. The procedures for receiving, inspection, testing, and reporting of test results are described in the test procedures and are not repeated in this report.

SECTION 2

SUMMARY OF SIDE IMPACT TEST

2.1 SUMMARY OF SIDE IMPACT NCAP TEST

A model year 2003 Ford Crown Victoria 4 Door Sedan was impacted on the left (driver's) side by a Moving Deformable Barrier (MDB) which was moving forward in a 27° crabbed position to the tow road guidance system at a velocity of 61.77 km/h. The specified impact velocity range is from 61.1 to 62.7 km/h. The test (target) vehicle was stationary and positioned 63° to the line of forward motion. The weight of the vehicle as tested was 2105 kg and the test weight of the MDB was 1361 kg. The test was conducted at KARCO Engineering, LLC in Adelanto, California, on November 12, 2002.

SUPPLEMENTAL RESTRAINT INFORMATION

Restraint Type	Left Front (Driver)		Left Rear (Passenger)	
	Installed	Operation	Installed	Operation
Front Airbag	Yes	Not Deployed	None	Not Applicable
Side Torso Airbag	None	Not Applicable	None	Not Applicable
Head Curtain Airbag	None	Not Applicable	None	Not Applicable

One (1) real-time motion picture camera and eleven (11) high-speed motion picture cameras were used to document the impact event. The pre-test and post-test conditions were recorded by one (1) real-time motion picture camera. Camera locations and pertinent camera information is documented in the data sheets. Pre- and post-test photographs of the vehicle and SID's/Hybrid III can be found in Appendix A. Two 50th percentile adult male Side Impact Dummy's (SID's)/Hybrid III were placed in the driver's and left rear passenger designated seating positions according to the test procedure. Each SID/Hybrid III is instrumented with contact switches on the pelvis and thorax, and fourteen accelerometers in the following locations:

- Left Upper Rib (LUR) uni-axial accelerometer (Y-axis primary and redundant)
- Left Lower Rib (LLR) uni-axial accelerometer (Y-axis primary and redundant)
- Lower Thoracic Spine (T12) uni-axial accelerometer (Y-axis primary and redundant)
- Pelvic (PEV) section uni-axial accelerometer (Y-axis primary and redundant)
- Head Center of Gravity (CG) tri-axial accelerometers (X, Y, and Z axes)

Note: Sid's are Hybrid III head and neck. 6 neck load cells per dummy.

The test vehicle was instrumented with twenty-five (25) structural accelerometers and the MDB was instrumented with five (5) accelerometers and a one (1) contact switch on the right bumper to compare left side to right side bumper impact timing. All data channels were recorded with a fully self contained on-board Test Data Acquisition System (TDAS). The data was digitally sampled at 10,000 samples per second and processed per Appendix V of the Test Procedure.

2.2 GENERAL COMMENTS

The test vehicle sustained a maximum static crush of 468 mm at level 3, 1650mm rearward of the left vertical impact point. The driver SID/Hybrid III, Serial No. 274 and the passenger SID/Hybrid III, Serial No. 275 were calibrated just prior to this test. The SID/Hybrid III injury criteria is summarized as follows:

Measurement	Units	Driver	Passenger
Thoracic Trauma Index (TTI)	G's	67	56
Peak Pelvic G's (PEV)	G's	72	81

Tests summaries and post-test observations are presented in Section 3. The vehicle, camera, and occupant measurements are presented in Section 4. Appendix A contains the still photograph prints. Appendix B contains the driver and passenger SID's/Hybrid III, vehicle, and MDB response data traces. Appendix C contains the SID's/Hybrid III Configuration and performance verification data. Appendix D contains the test equipment information.

SECTION 3
SIDE IMPACT DUMMY (SID)/HYBRID III AND VEHICLE TEST DATA

Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

NHTSA No. M30201

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 11/12/02

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	$=(t_f - 32)/1.8$
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
GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

NHTSA No. M30201

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 11/12/02

TEST VEHICLE INFORMATION

Make	Ford
Model	Crown Victoria
Body Style	4- Door Sedan
NHTSA No.	M30201
VIN	2FAFP73W83X109154
Color	White
Delivery Date	9/9/02
Odometer Reading (mile)	207
Dealer	Soutars
Transmission	4-Speed Automatic
Final Drive	Rear
Type/Number Cylinders	V8
Engine Displacement (L)	4.6
Engine Placement	Longitudinal

TEST VEHICLE OPTIONS

Driver Front Airbag	Yes
Driver Side Torso Airbag	No
Driver Side Head Airbag	No
Rear Pass. Airbag	No
Rear Pass. Torso Airbag	No
Rear Pass. Head Airbag	No
Power Brakes	Yes
Power Steering	Yes
Disc Brakes, Front	Yes
Disc Brakes, Rear	Yes
Anti-lock Brakes	Yes
Tilt Steering Wheel	Yes
Power Windows	Yes
Power Seats	Yes

DATA FROM CERTIFICATION LABEL

Manufactured By	Ford Motor Company	GVWR (kg)	2632
Date of Manufacture	April-02	GAWR Front (kg)	1224
		GAWR Rear (kg)	1407

DATA FROM TIRE PLACARD

Measured Parameter	Front	Rear
Maximum Tire Pressure (kPa)	221	241
Cold Pressure (kPa)	221	241
Recommend Tire Size	P225/60R16	P225/60R16
Tire Size on Vehicle	P225/60R16	P225/60R16
Tire Manufacturer	Goodyear	Goodyear

Measured Parameter	Front	Rear	Third	Total
Type of Seats	Split Bench	Bench	None	
Number of Occupants	3	3	0	6
Capacity Wt. (VCW) (kg)				774
Cargo Weight (RCLW) (kg)				91

DATA SHEET NO. 1...(CONTINUED)
GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

NHTSA No. M30201

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 11/12/02

TEST VEHICLE WEIGHTS

	Units	As Delivered (UVW)			As Tested (ATW)		
		Front Axle	Rear Axle	Total	Front Axle	Rear Axle	Total
Left	kg	517	408		558	520	
Right	kg	527	407		527	500	
Ratio	%	56.2	43.9		51.6	48.4	
Totals	kg	1044	815	1859	1085	1020	2105

TARGET TEST WEIGHT CALCULATION*

Measured Parameter	Units	Value
Total Delivered Weight (UVW)	kg	1859
Weight of 2 P572M Sid's/Hybrid III Dummies	kg	161
Rated Cargo/Luggage Weight (RCLW)	kg	91
Calculated Vehicle Target Weight (TVTW)	kg	2111

*Actual As Tested Weight (ATW) will be TVTW -5/-10 kg

TEST VEHICLE ATTITUDES AND CG

	Units	LF	RF	LR	RR	CG (aft of front axle)
As Delivered	mm	714	713	733	746	1276
As Tested	mm	704	712	686	707	1409
Fully Loaded	mm	703	712	682	703	

GENERAL TEST VEHICLE DATA

Measurement Description	Units	Value
Test Vehicle Wheel base	mm	2909
Total Vehicle Length at Left Side	mm	3550
Total Vehicle Length at Centerline	mm	5427
Total Vehicle Length at Right Side	mm	3550
Weight of Ballast In Cargo Area	kg	81
Amount of Stoddard Solvent in Fuel Tank	Liters	66.6

TEST VEHICLE VERTICAL IMPACT LINE DATA

Measurement Description	Units	Value
Test Vehicle Wheel base	mm	2909
Target Impact Point Aft of Front Axle	mm	1563
Actual Impact Point Aft of Front Axle	mm	1553

DATA SHEET NO. 1...(continued)
GENERAL TEST AND VEHICLE PARAMETER DATA

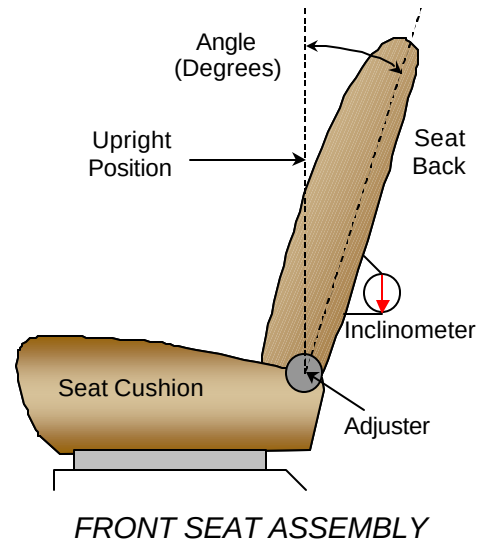
Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan
Test Program: 55/28 km/h 90° Side Impact NCAP

NHTSA No. M30201
Test Date: 11/12/02

NOMINAL DESIGN RIDING POSITION

The driver's seat back is positioned to the manufacturer's designated angle. The procedure for positioning the seat is as follows: A slit is cut into fabric of the seat at the outboard edge, approximately 10-13 inches above the pivot point to expose the frame of the seat. An inclinometer is firmly placed against the flat portion of the frame surface and the seat back is adjusted to the manufacturers designated angle.

Driver seat back angle: 29° with a seated dummy
Rear seat back angle: 22° fixed



SEAT FORE/AFT POSITIONS

The driver's seat is adjustable. The fore/aft position is set to the middle.

Driver seat fore/aft total travel: 227mm total travel
Rear seat fore/aft total travel: Seat is fixed
Driver seat fore/aft position: Placed in mid position 113.5mm
Rear seat fore/aft position: Seat is fixed

SEAT BELT UPPER ANCHORAGE

Both driver seat is equipped with adjustable upper seat belt anchorages. The driver's "D" ring anchorage has 5 positions and is placed in the 3rd position from the top; the rear passenger seat has a non-adjustable fixed anchorage.

DATA SHEET NO. 1...(continued)
GENERAL TEST AND VEHICLE PARAMETER DATA

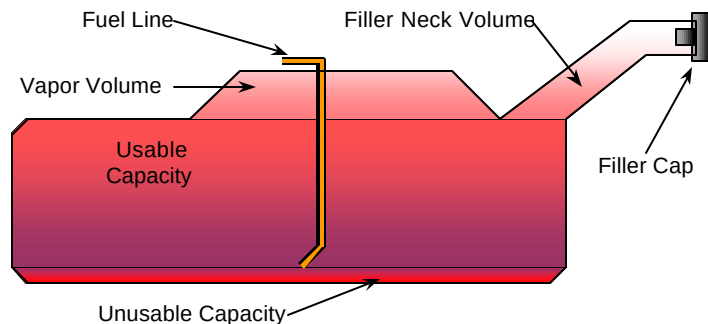
Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan
Test Program: 55/28 km/h 90° Side Impact NCAP

NHTSA No. M30201
Test Date: 11/12/02

FUEL TANK CAPACITY DATA

The "Usable Capacity" of the standard equipment fuel tank is: 71.9 liters
The "Usable Capacity" of any optional equipment fuel tank is: N/A liters
92-94% of "Usable Capacity" for certification to FMVSS 301 requirement: 65.8 to 67.3 liters
Actual amount of Stoddard solvent added to vehicle for certification test: 66.6 liters

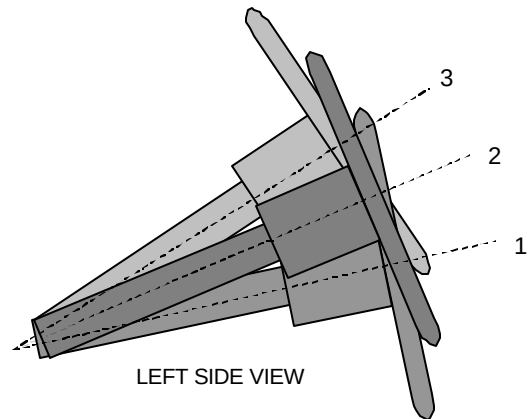
The test vehicle is equipped with an electric fuel pump. The fuel pump will operate for approximately three (3) seconds with the ignition in the "ON" position, after which the fuel pump automatically shuts off. The fuel filler door is located on the left rear fender.



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 it is moved through its full range of motion. An aluminum plate is placed across the rim of the steering wheel, an inclinometer is placed onto the plate and the angle is measured. The tested vehicle has its steering column set at position 2 as indicated in the drawing at right and the angle below.



STEERING COLUMN ASSEMBLY

Lowermost, position 1: 17°
Geometric center, position 2: 25°
Uppermost, position 3: 33°

DATA SHEET NO. 2
TEST VEHICLE SUMMARY OF RESULTS

Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

NHTSA No. M30201

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 11/12/02

TEST VEHICLE WEIGHTS

	Units	As Delivered (UVW)			As Tested (ATW)		
		Front Axle	Rear Axle	Total	Front Axle	Rear Axle	Total
Left	kg	517	408		558	520	
Right	kg	527	407		527	500	
Weight Ratio	%	56.2	43.8		51.6	48.4	
Totals	kg	1044	815	1859	1085	1020	2105

MAXIMUM EXTERIOR STATIC CRUSH

Level	Measured Parameter	Units	Maximum Crush	Above Ground
Level 1	Sill Top Height	mm	243	244
Level 2	Occupant H-Point	mm	457	565
Level 3	Mid Door	mm	468	576
Level 4	Window Sill	mm	413	903
Level 5	Window Top	mm	168	1383
N/A	Maximum Penetration	mm	468	

INSTRUMENTATION

Driver SID/Hybrid III Accelerometers	14
Passenger SID/Hybrid III Accelerometers	14
Vehicle Structure Accelerometers	25
MDB Accelerometers	5
Total	58

16mm MOVIE COVERAGE

High Speed, Vehicle On-Board	3
High Speed, Off-Board	5
High Speed, MDB On-Board	2
Real Time, Panning	1
Total	11

DATA SHEET NO. 3
MOVING DEFORMABLE BARRIER (MDB) SUMMARY OF RESULTS

Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

NHTSA No. M30201

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 11/12/02

MDB SPECIFICATIONS (mm)

Measurement Description	Length
Overall Width of Framework Carriage	1252
Overall Length Including Honeycomb Face	4115
Wheel base of Framework Carriage	2590
C.G. Location aft of Front Axle	1127

MDB WEIGHTS

	Units	Front Axle	Rear Axle	Total
Left	kg	384	308	
Right	kg	385	284	
Ratio	%	56.5	43.5	
Totals	kg	769	592	1361

SPEED AND IMPACT ANGLE DATA

Measured Parameter	Units	Requirement	Value
Trap No. 1 Velocity (Primary)	km/h	61.1 to 62.7	61.77
Trap No. 2 Velocity (Redn.)	km/h	61.1 to 62.7	61.81
MDB CL to Target Vehicle CL	degrees	88.5 to 91.5	89.5

MAXIMUM STATIC CRUSH OF HONEYCOMB FACE (mm)

Vertical Location			From Centerline		Max Crush
Row	Description	Height	Distance	Direction	
A	Center of Bumper	432	800	Right	241
B	Top of Bumper	533	800	Right	138
C	Mid Level	686	800	Right	146
D	Top of Stack	813	800	Right	156

MDB INSTRUMENTATION AND CAMERAS

Accelerometers	5
Contact Switches	2
High Speed Cameras	2

DATA SHEET NO. 4
POST TEST OBSERVATIONS

Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

NHTSA No.: M30201

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 11/12/02

TEST DUMMY INFORMATION AND CONTACT POINTS

Description	Front Seat SID/Hybrid III	Rear Seat SID/Hybrid III
Dummy Type / Serial No.	P572M, SID/Hybrid III No. 274	P572M, SID/Hybrid III No. 275
Head Contact	Window	C-Pillar/Side Header
Upper Torso Contact	Panel	Panel
Lower Torso Contact	Panel	Panel
Left Knee Contact	Panel	Panel
Right Knee Contact	Knee	Knee

POST TEST DOOR OPENING AND SEAT TRACK INFORMATION

Description	Front	Rear
Left Side Door Opening	Remained closed inoperable	Remained closed inoperable
Right Side Door Opening	Remained closed operable	Remained closed operable
Seat Movement	None	None
Seat Back Failure	None	None

POST TEST STRUCTURAL OBSERVATIONS

Critical Areas of Performance	Observations and Conclusions
Pillar Performance	Pillars pushed inward with no apparent failure
Sill Separation	No Apparent Visible Failure
Windshield Damage	Glazing Cracks on Struck Side Only
Window Damage	Both Left Side Windows Broke.
Other Notable Effects	No significant items to note.

SUPPLEMENTAL RESTRAINT INFORMATION

Restraint Type	Left Front (Driver) Occupant Location 01		Left Rear (Passenger) Occupant Location 04	
	Installed	Operation	Installed	Operation
Front Airbag	Yes	Not Deployed	None	Not Applicable
Side Torso Airbag	None	Not Applicable	None	Not Applicable
Head Curtain Airbag	None	Not Applicable	None	Not Applicable
Seat Belt Pretensioner	None	Not Applicable	None	Not Applicable
Seat Belt Load Limiter	None	Not Applicable	None	Not Applicable

MDB LEFT EDGE IMPACT POINT DATA

Measured Parameter	Units	Requirement	Value
Horizontal Offset	mm	+/- 50	10(Left)
Vertical Offset	mm	+/- 20	7(Below)

SECTION 4
OCCUPANT AND VEHICLE INFORMATION

DATA SHEET NO. 5
IIII/SID INJURY CRITERIA AND SENSOR DATA

Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

NHTSA No.: M30201

Test Program: 55/28 km/h Side Impact NCAP

Test Date: 11/12/02

THORAX AND PELVIS PEAK ACCELERATIONS, PRIMARY (FIR 100 Filtered)

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Upper Rib (LUR)	Y	G's	65.1	29.4	-16.9	78.8	40.3	44.4	-4.3	132.5
Lower Rib (LLR)	Y	G's	58.1	38.8	-18.4	93.8	57.8	41.3	-10.7	83.8
Lower Spine (T ₁₂)	Y	G's	68.7	43.8	-21.9	72.5	54.4	42.5	-12.5	70.6
Pelvis (PEV)	Y	G's	71.6	38.8	-19.5	83.1	81.3	40.0	-21.3	82.5

THORACIC TRAUMA INDEX (TTI) AND PELVIC ACCELERATION, PRIMARY (FIR 100 Filtered)

Location	Driver				Passenger			
	LUR	T ₁₂	TTI(g)	PEV(g)	LLR	T ₁₂	TTI(g)	PEV(g)
Primary Rib, Spine, and Pelvis	65.113	68.707	67	72	57.757	54.385	56	81

THORAX AND PELVIS PEAK ACCELERATIONS, REDUNDANT (FIR 100 Filtered)

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Upper Rib (LUR)	Y	G's	64.7	29.4	-18.6	78.8	40.2	43.8	-4.4	132.5
Lower Rib (LLR)	Y	G's	57.6	38.8	-17.1	93.8	58.7	41.3	-10.3	83.8
Lower Spine (T ₁₂)	Y	G's	67.6	43.8	-20.7	72.5	54.0	42.5	-12.5	70.6
Pelvis (PEV)	Y	G's	71.6	38.8	-20.2	83.1	80.5	40.0	-20.6	82.5

THORACIC TRAUMA INDEX (TTI) AND PELVIC ACCELERATION, REDUNDANT (FIR 100 Filtered)

Location	Driver				Passenger			
	LUR	T ₁₂	TTI(g)	PEV(g)	LLR	T ₁₂	TTI(g)	PEV(g)
Redundant Rib, Spine, and Pelvis	64.676	67.628	66	72	58.715	53.972	56	80

Positive Acceleration Polarities:

- Longitudinal (X) = Forward
- Lateral (Y) = Right
- Vertical (Z) = Down

DATA SHEET NO. 5...(continued)
HIII/SID INJURY CRITERIA AND SENSOR DATA

Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

NHTSA No.: M30201

Test Program: 55/28 km/h Side Impact NCAP

Test Date: 11/12/02

HEAD PRIMARY PEAK ACCELERATIONS (SAE CLASS 1000 Filtered)

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Head CG	X	G's	6.5	175.4	-23.4	60.6	11.9	57.4	-11.8	84.9
Head CG	Y	G's	20.5	45.1	-9.5	189.3	74.2	56.7	-8.2	41.3
Head CG	Z	G's	51.8	52.9	-1.0	4.2	26.3	43.9	-27.3	63.8
Head CG Resultant	N/A	G's	57.7	52.9			74.9	56.7		

HEAD PRIMARY INJURY CRITERIA (SAE CLASS 1000 Filtered)

Location	Driver				Passenger			
	HIC	T ¹	T ²	Avg G	HIC	T ¹	T ²	Avg G
Head CG	288.7	43.8	79.7	36.5	248.1	51.6	60.6	59.5

HEAD REDUNDANT PEAK ACCELERATIONS (SAE CLASS 1000 Filtered)

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Head CG	X	G's	7.1	189.9	-23.9	84.4	12.5	57.4	-10.7	84.4
Head CG	Y	G's	19.9	75.2	-9.6	175.9	73.7	57.0	-8.0	40.7
Head CG	Z	G's	51.9	53.5	-1.1	1.4	24.5	43.6	-27.0	64.4
Head CG Resultant	N/A	G's	56.7	53.5			74.5	57.0		

HEAD REDUNDANT INJURY CRITERIA (SAE CLASS 1000 Filtered)

Location	Driver				Passenger			
	HIC	T ¹	T ²	Avg G	HIC	T ¹	T ²	Avg G
Head CG	270.7	44.3	80.2	35.5	234.7	51.4	60.5	57.9

UPPER NECK PEAK FORCES AND MOMENTS

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Neck Force	X	Newtons	175.7	32.7	-940.4	79.7	341.0	65.0	-165.3	98.6
Neck Force	Y	Newtons	769.8	45.8	-334.0	32.7	147.6	12.3	-780.4	64.9
Neck Force	Z	Newtons	2360.7	54.1	-127.1	11.2	1119.4	44.1	-1137.5	63.7
Neck Force Resultant	N/A	Newtons	2578.6	54.2			1396.7	64.0		
Neck Moment	X	N•m	62.9	80.3	-56.7	44.2	13.5	132.8	-92.2	58.6
Neck Moment	Y	N•m	26.4	73.8	-43.1	187.8	17.6	119.8	-31.1	76.9
Neck Moment	Z	N•m	36.9	75.4	-27.8	43.8	11.3	105.2	-18.7	60.8
Neck Moment Resultant	N/A	N•m	72.1	80.1			93.7	59.1		

DATA SHEET NO. 6

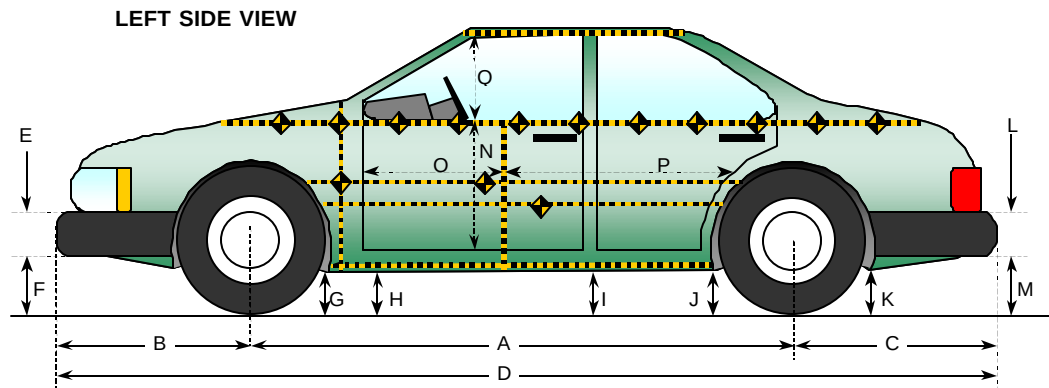
VEHICLE PRE-TEST AND POST TEST MEASUREMENTS

Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

NHTSA No. M30201

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 11/12/02



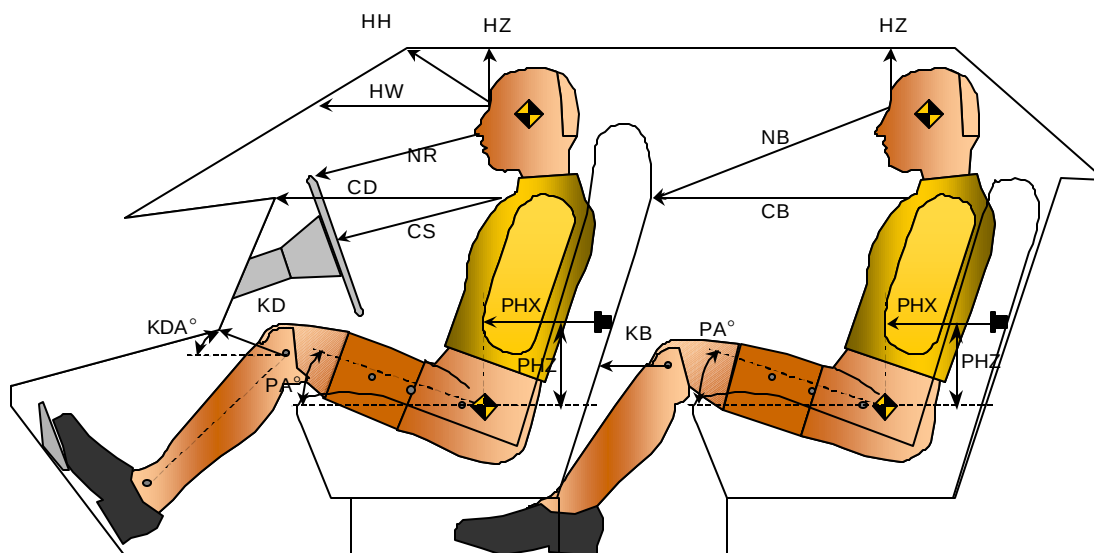
All Measurements in mm

Code	Measurement Description	Pre-Test	Post-Test	Difference
A	Wheelbase	2909	2909	0
B	Front Axle To FSOV	1122	1128	6
C	Rear Axle to RSOV	1395	1352	-43
D	Total Length at Centerline	5427	5380	-47
E	Front Bumper Thickness	336	336	0
F	Front Bumper Bottom to Ground	248	274	26
G	Sill Height at Front Wheel Well	189	245	56
H	Sill Height at Front Door Leading Edge	189	238	49
I	Sill Height at "B" Pillar	185	272	87
J1	Sill Height at Rear Wheel Well	185	212	27
J2	Pinch Weld Height at Rear Wheel Well	183	237	54
K	Sill Height aft of Rear Wheel Well	217	333	116
L	Rear Bumper Thickness	333	333	0
M	Rear Bumper Bottom to Ground	299	481	182
N	Sill Height to Window Bottom Sill	674	571	-103
O	Front Door Leading Edge to Impact CL	743	725	-18
P	Rear Door Trailing Edge to Impact CL	1424	1085	-339
Q	Front Window Opening	441	405	-36
R	Right Side Length	3550	3447	-103
S	Left Side Length	3550	3567	17
T	Vehicle Width at "B" Post	1976	1697	-279

DATA SHEET NO. 7
SID/HYBRID III LONGITUDINAL CLEARANCE DIMENSIONS

Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan
 Test Program: 55/28 km/h 90° Side Impact NCAP

NHTSA No. M30201
 Test Date: 11/12/02

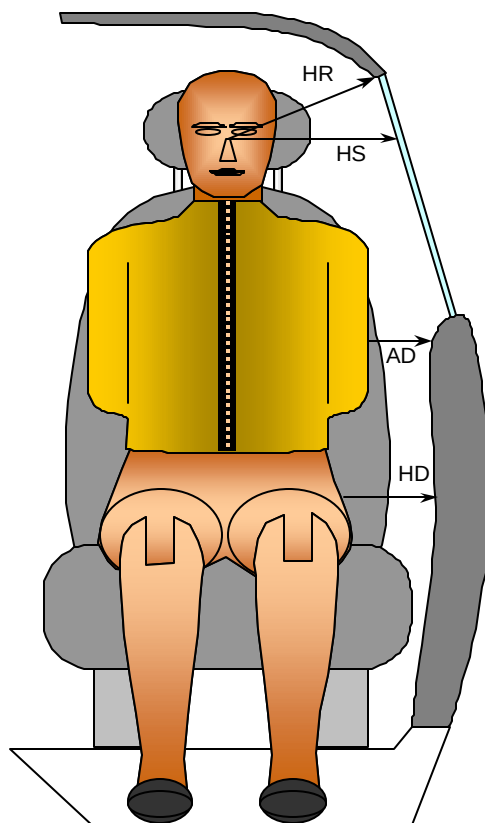


Driver Code	Pass. Code	Measurement Description	Driver		Passenger	
			Length(mm)	Angle(°)	Length(mm)	Angle(°)
HH		Head to Header	400	12		
HW		Head to Windshield	615			
HZ	HZ	Head to Roof	190	90	170	90
NR	NB	Nose to Rim/Nose to Seatback	432	16	620	24
CD	CB	Chest to Dash or Seatback	570	7	537	6
CS		Chest to Steering Wheel	275	0		
KDL	KBL	Left Knee to Dash or Seatback	164	23	239	0
KDR	KBR	Right Knee to Dash or Seatback	185		234	
PA	PA	Pelvic Angle		23		23
PHX	PHX	H-Point to Striker (X-Axis)	188		198	
PHZ	PHZ	H-Point to Striker (Z-Axis)	108		271	

DATA SHEET NO. 8
SID/HYBRID III LATERAL CLEARANCE DIMENSIONS

Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan
 Test Program: 55/28 km/h 90° Side Impact NCAP

NHTSA No. M30201
 Test Date: 11/12/02



FRONT VIEW OF DUMMY

Code	Measurement Description	Units	Driver	Passenger
HR	Head to Side Header	mm	200	202
HS	Head to Side Window	mm	330	323
AD	Arm to Door	mm	106	106
HD	H-Point to Door	mm	186	175

DATA SHEET NO. 9

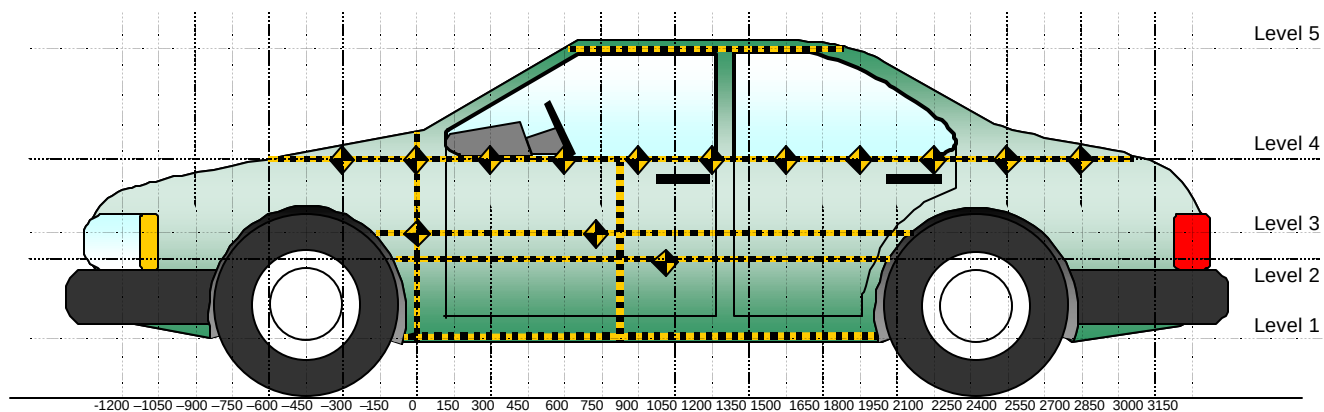
VEHICLE SIDE MEASUREMENTS

Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

NHTSA No.: M30201

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 11/12/02



All Measurements Shown in mm

LEFT SIDE VIEW

Measurements are taken with vehicle in the as tested condition.

Measurements taken 900mm right of impact reference.

All measurements below in mm.

Level	Measurement Description	Height Above Ground
5	Window Top	1383
4	Window Sill	903
3	Mid Door	576
2	Occupant H-Point	565
1	Sill Top	244

DATA SHEET NO. 10 – VEHICLE EXTERIOR CRUSH PROFILES

Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

NHTSA No.: M30201

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 11/12/02

	Pre-Test					Post-Test					Difference				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
-900															
-750															
-600															
-450															
-300				625					705					80	
-150	618	533	539	613		690	581	611	695		72	48	72	82	
0	616	531	535	606		682	596	608	681		66	65	73	75	
150	612	526	530	602		733	758	776	715		121	232	246	113	
300	608	520	524	594		727	816	827	741		119	296	303	147	
450	605	513	519	588		744	827	852	766		139	314	333	178	
600	603	510	516	582		760	826	834	797		157	316	318	215	
750	603	507	513	580	866	776	856	870	827	988	173	349	357	247	122
900	603	505	511	576	860	796	879	880	861	951	193	374	369	285	91
1050	603	503	510	577	860	815	890	889	898	994	212	387	379	321	134
1200	602	503	510	574	859	836	904	899	944	1027	234	401	389	370	168
1350	603	504	510	576	859	844	928	928	989	1003	241	424	418	413	144
1500	606	536	510	574	860	849	949	944	984	922	243	413	434	410	62
1650	604	509	513	574	863	830	966	981	972	832	226	457	468	398	-31
1800	607	511	512	574	865	814	953	970	889	770	207	442	458	315	-95
1950	609	513	513	578	866	792	798	824	766	741	183	285	311	188	-125
2100		518	513	579	856		650	695	681	951		132	182	102	95
2250			510	583	888			634	599	966			124	16	78
2400				588					639					51	
2550				598					630					32	
2700				607					642					35	
2850				624					648					24	
3000				633					658					25	

Measurements are taken from fixed reference 1500mm from vehicle CL.

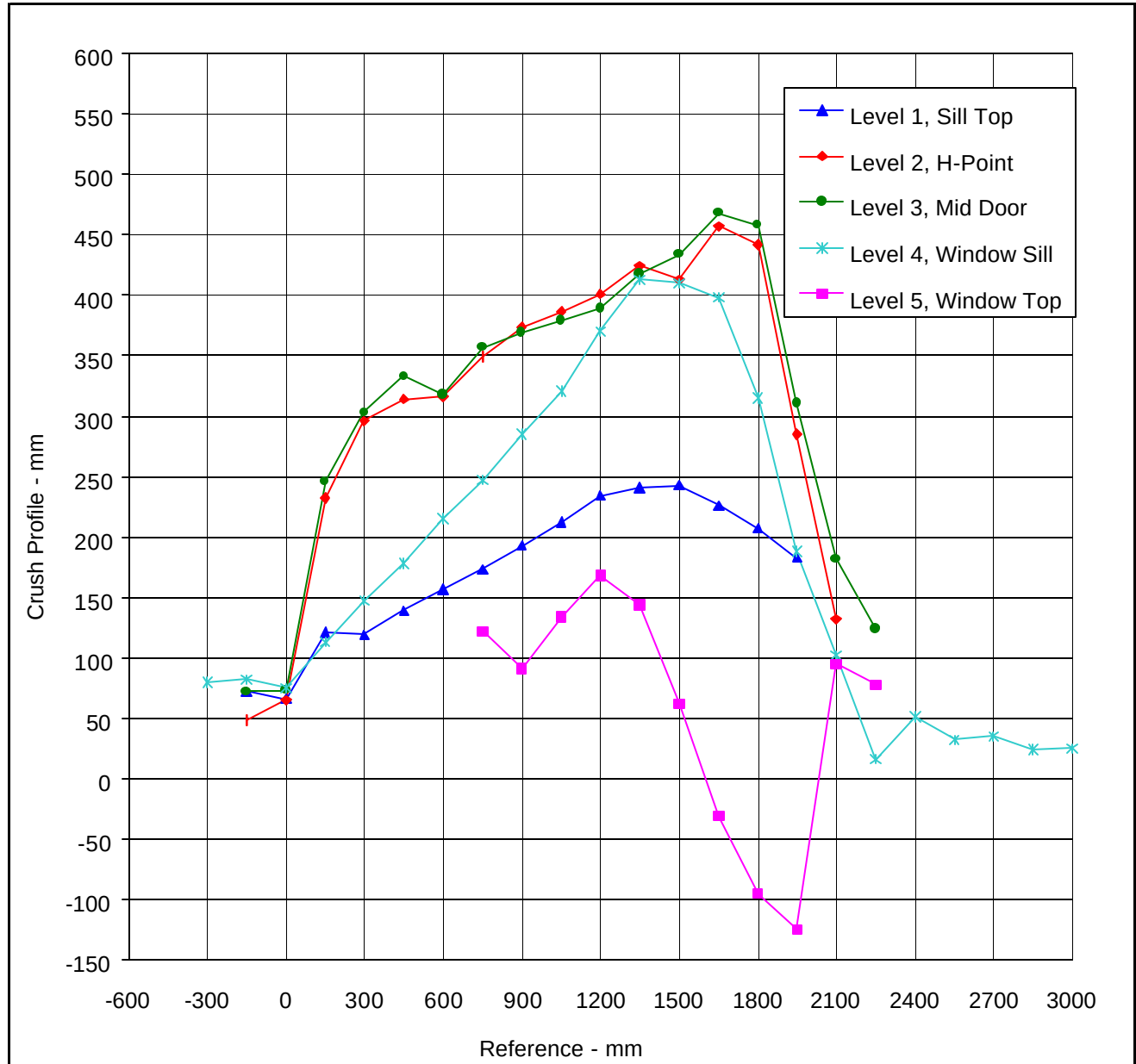
DATA SHEET NO. 10...(continued)
VEHICLE EXTERIOR CRUSH PROFILES

Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

NHTSA No.: M30201

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 11/12/02



	Units	Level 1	Level 2	Level 3	Level 4	Level 5
Maximum Crush	mm	243	457	468	413	168
Distance from Impact	mm	1500	1650	1650	1350	1200

DATA SHEET NO. 11

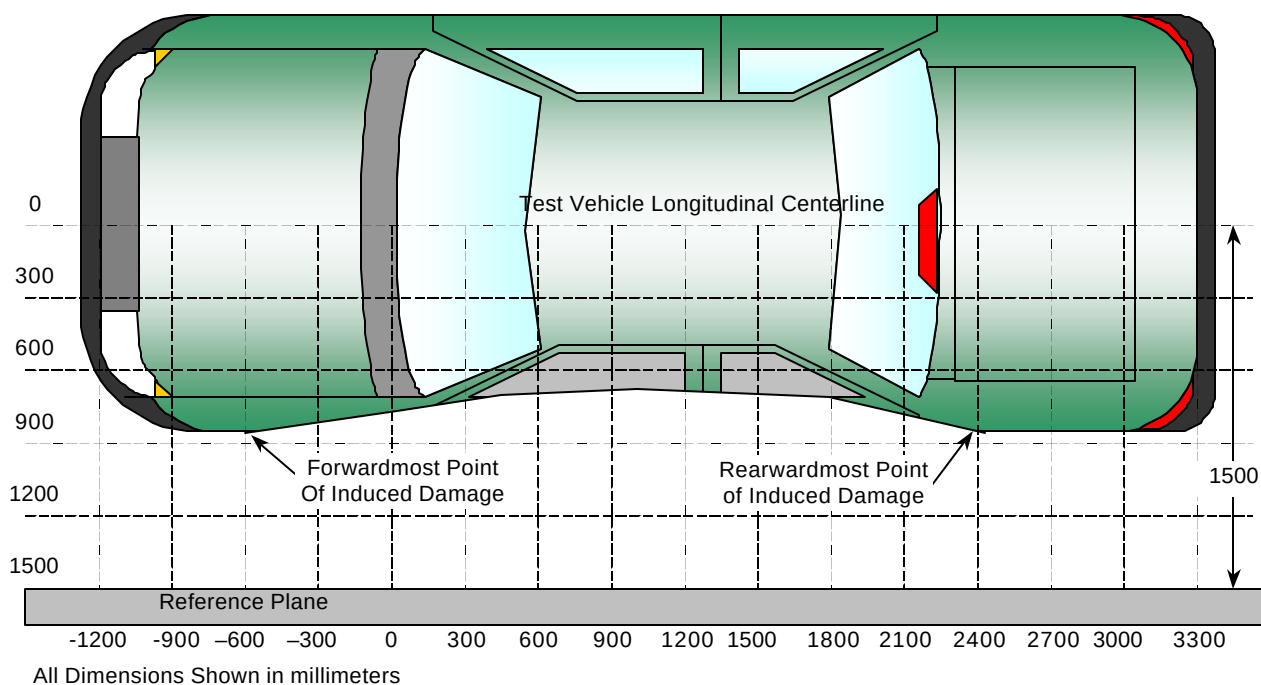
VEHICLE DAMAGE PROFILE DISTANCES

Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

NHTSA No.: M30201

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 11/12/02



TOP VIEW

Damage Profile Distances

DPD	Distance From Impact Point in mm	Level	Pre-Test (mm)	Post-Test (mm)	Max Static Crush (mm)
1	-300	4	625	705	-80
2	300	3	524	827	-303
3	900	2	505	879	-374
4	1500	3	510	944	-434
5	2100	3	513	695	-182
6	3000	4	633	658	-25

Pre-Test and Post-Test measurements are distance from vehicle centerline.

DATA SHEET NO. 12

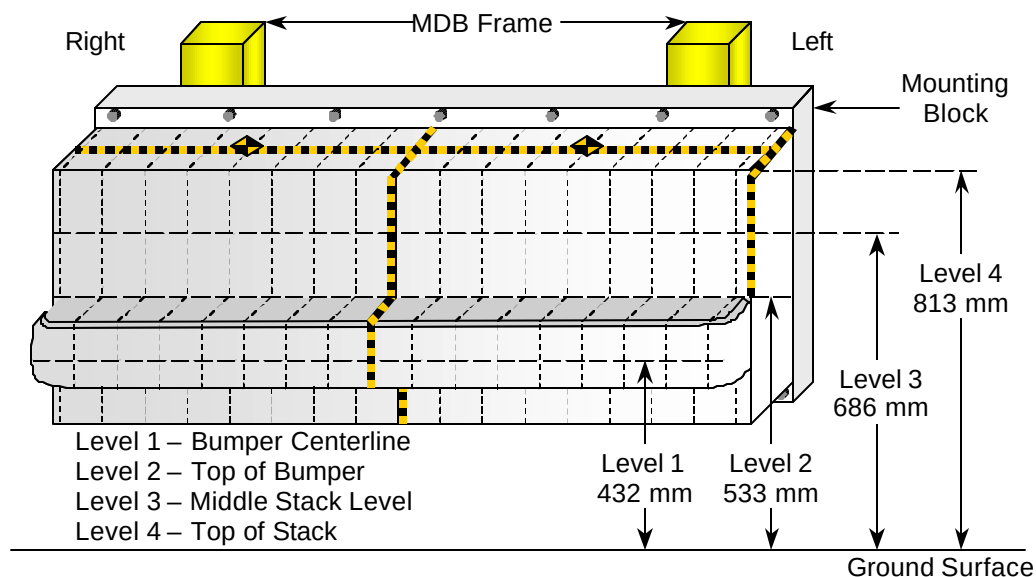
DEFORMABLE BARRIER HONEYCOMB FACE STATIC CRUSH

Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

NHTSA No.: M30201

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 11/12/02



DEFORMABLE BARRIER STATIC CRUSH

Stack	Distance Right of Center								C _L	Distance Left of Center							
Level	800	700	600	500	400	300	200	100	0	100	200	300	400	500	600	700	800
1	125	80	84	78	79	88	88	88	85	88	97	103	111	118	129	171	241
2	59	57	56	56	51	49	46	46	49	56	61	66	73	84	98	116	138
3	23	-7	-4	2	19	21	12	8	9	10	12	15	19	27	48	101	146
4	30	-3	-18	-15	1	16	16	16	0	5	11	21	32	49	67	98	156

All Dimensions in mm

DATA SHEET NO. 13

VEHICLE ACCELEROMETER LOCATION AND DATA SUMMARY

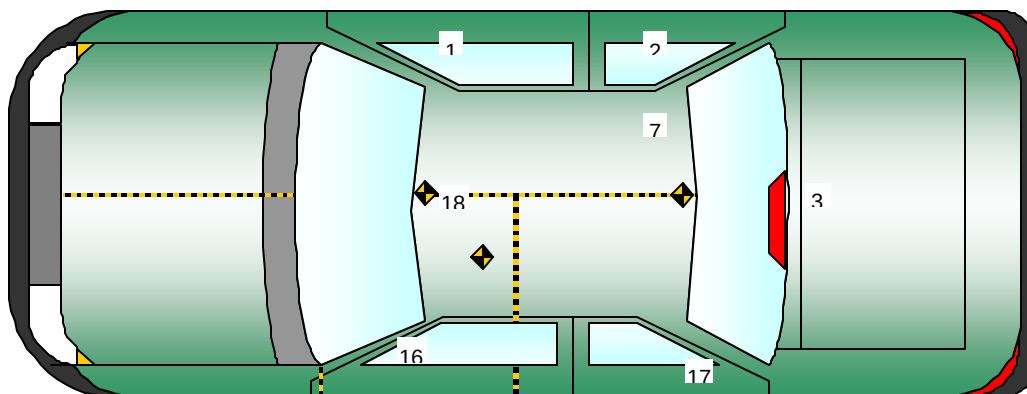
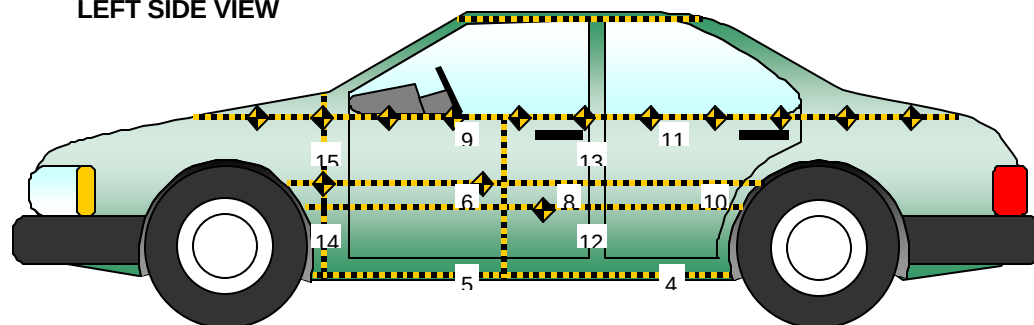
Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

NHTSA No.: M30201

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 11/12/02

LEFT SIDE VIEW



No.	Location
1	Right Sill at Front Seat
2	Right Sill at Rear Seat
3	Rear Floorpan Above Axle
4	Left Sill at Rear Door
5	Left Sill at Front Door
6	Left Front Door Centerline
7	Right Rear Occupant Compartment
8	Left Front Door Mid-Rear
9	Left Front Door Upper Centerline

No.	Location
10	Left Rear Door Mid-Rear
11	Left Rear Door Upper Centerline
12	Left Lower B-Post
13	Left Middle B-Post
14	Left Lower A-Post
15	Left Middle A-Post
16	Front Seat Track
17	Rear Seat Track or Structure
18	Vehicle CG

DATA SHEET NO. 13
VEHICLE ACCELEROMETER LOCATION AND DATA SUMMARY

Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

NHTSA No.: M30201

Test Program: 55/28 km/h Side Impact NCAP

Test Date: 11/12/02

VEHICLE ACCELEROMETER PEAK DATA AND PRE-TEST LOCATIONS

Loc. No.	Accelerometer Location	Measurements (mm)			Peak Values (G's)				
		X	Y	Z	Axis	Max	Time	Min	Time
1	Right Sill at Front Seat	3140	670	340	X	4.2	34.0	-6.1	9.8
					Y	20.6	24.9	-1.4	119.8
					Z	7.0	60.2	-7.3	11.3
					RES	20.9	23.0		
2	Right Sill at Rear Seat	2150	745	350	X	3.9	35.0	-5.7	9.3
					Y	20.5	20.8	-1.4	120.7
					Z	6.4	56.4	-7.5	15.0
					RES	21.5	20.9		
3	Rear Floorpan Above Axle	890	-615	540	X	10.9	44.5	-8.6	30.1
					Y	16.1	29.3	-1.9	139.4
					Z	14.7	20.9	-9.0	12.3
					RES	19.8	29.5		
4	Left Sill at Rear Door	2270	-760	155	Y	77.3	10.4	-35.8	55.8
5	Left Sill at Front Door	2840	-760	155	Y	63.5	9.4	-25.3	19.6
6	Front Door Centerline	3220	-830	700	Y	151.6	10.8	-84.2	28.0
7	Rt. Rear Occ. Compartment	2480	460	160	Y	20.9	21.2	-2.6	120.7
8	Front Door Mid-Rear	2760	-830	600	Y	0.0	0.0	0.0	0.0
9	Front Door Upper Centerline	3140	-830	850	Y	126.5	16.4	-61.6	25.9
10	Rear Door Mid-Rear	1960	-830	640	Y	149.4	6.5	-154.2	11.3
11	Rear Door Upper Centerline	2200	-830	820	Y	92.7	18.6	-115.9	30.7
12	B-Post Lower	2520	-760	360	Y	125.3	5.0	-37.1	60.6
13	B-Post Middle	2520	-760	690	Y	112.6	5.0	-22.0	62.8
14	A-Post Lower	3660	-840	500	Y	154.7	4.3	-51.2	8.6
15	A-Post Middle	3660	-840	670	Y	119.1	4.4	-40.2	8.6
16	Front Seat Track	3110	-505	375	Y	42.0	8.0	-10.7	63.3
17	Rear Seat Structure				Y				
18	Vehicle CG	2375	0	470	X	8.9	31.7	-11.0	20.0
					Y	19.8	21.2	-2.6	121.9
					Z	20.2	37.3	-27.6	30.7
					RES	32.3	5.7		

¹ Channel failed, no data

² Not installed

DATA SHEET NO. 14

MDB ACCELEROMETER LOCATION AND DATA SUMMARY

Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

NHTSA No.: M30201

Test Program: 55/28 km/h Side Impact NCAP

Test Date: 11/12/02

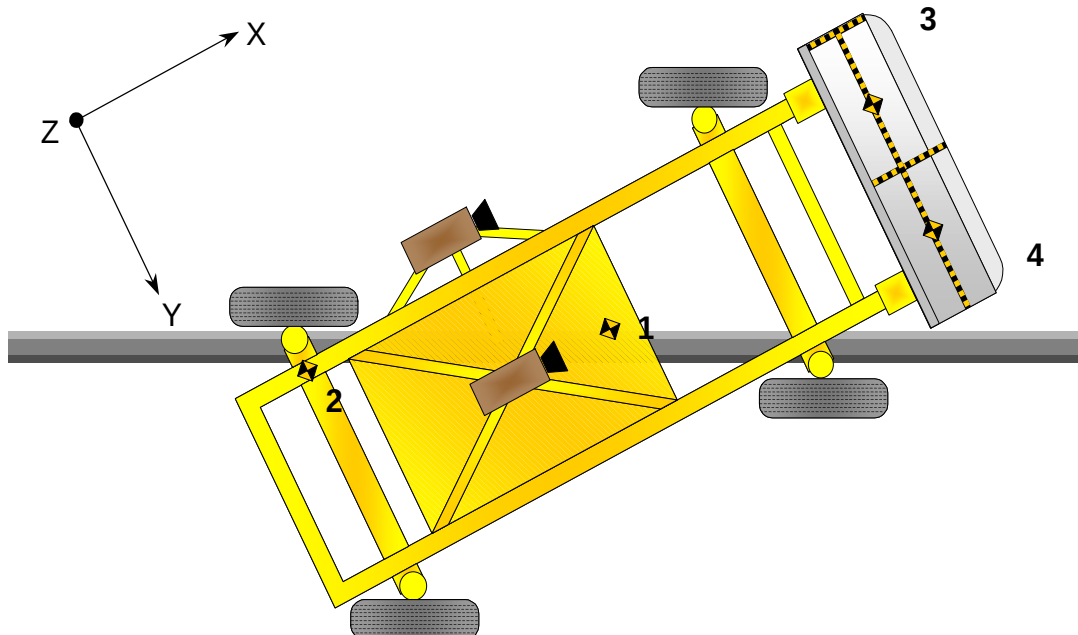
MDB ACCELEROMETER PEAK DATA AND LOCATIONS

Loc. No.	Accelerometer Location	Measurements (mm)			Peak Values (G's)				
		X	Y	Z	Axis	Max	Time	Min	Time
1	MDB CG	-1195	0	430	X	1.9	137.2	-20.5	23.0
					Y	2.3	57.2	-8.9	20.0
					Z	11.7	18.6	-10.3	24.5
					RES	22.6	23.3		
2	MDB Rear	-2642	-593	608	X	1.8	147.8	-19.6	24.6
					Y	3.3	99.1	-6.2	16.1

Reference Points X - MDB Front Axle Y - MDB Centerline Z - Ground Plane

MDB BUMPER CONTACT SWITCH DATA

Loc. No.	Contact Switch Location	Units	Peak and 50% Crossing Point			
			Max	Time	50%	Time
3	MDB Left Bumper (T=0)	% F.S	100.0	0.0	50.0	0.0
4	MDB Right Bumper	% F.S.	105.1	6.5	50.0	-1.4



DATA SHEET NO. 15

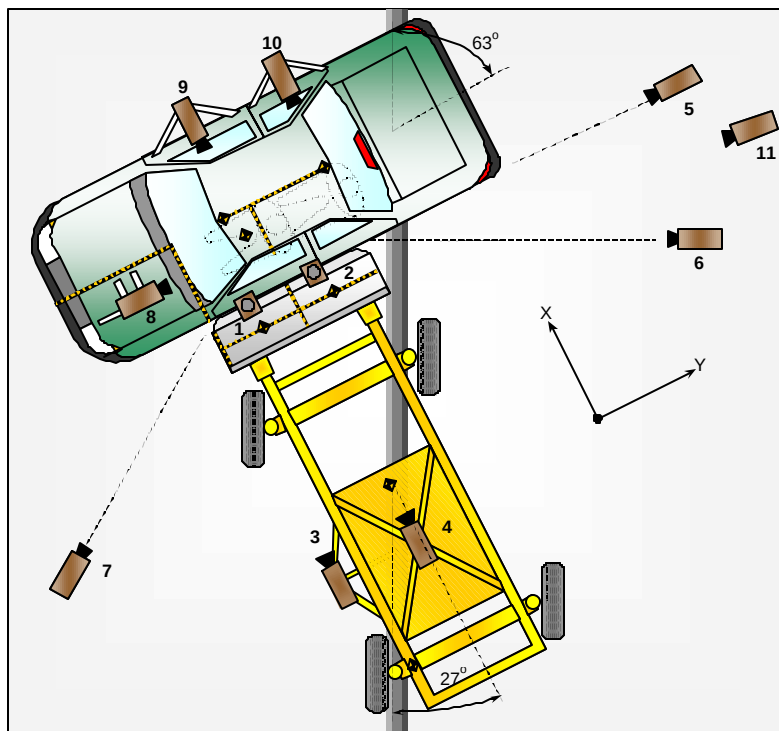
HIGH SPEED CAMERA LOCATIONS AND DATA

Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

NHTSA No.: M30201

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 11/12/02



No.	Camera View	Location (mm)			Angle (deg.)	Lens (mm)	Film Speed (fr./sec.)
		X	Y	Z			
1	Overhead Overall	2438	609	5486	90	12	1000
2	Overhead Close-up	1676	-1067	5486	90	24	1000
3	MDB Onboard, Impact Point Close-Up	0	-2134	1143	7	13	610
4	MDB Onboard, Centerline of Impact	838	-3912	1829	11	13	990
5	Right Side, Ground Level, Overall	15545	228	1371	1	25	DNR
6	Right Side, Ground Level, Close-up	16459	-7188	939	1	80	DNR
7	Left Side, Ground Level, Close-up	-4775	-2666	1473	7	13	1000
8	Vehicle Onboard Front SID, Front	-533	609	1397	15	17	910
9	Vehicle Onboard Front SID, Side	939	2083	1041	5	19	1030
10	Vehicle Onboard Rear SID, Side	1905	2083	1067	4	19	1030
11	Driver, Front	-5080	5531	1524	8	17	800

DNR - Did not run.

DATA SHEET NO. 16
FMVSS 301 FUEL SYSTEM INTEGRITY POST IMPACT DATA

Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

NHTSA No.: M30201

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 11/12/02

Test Time: 12:22 PM

Temperature at Time of Impact: 18.8 °C

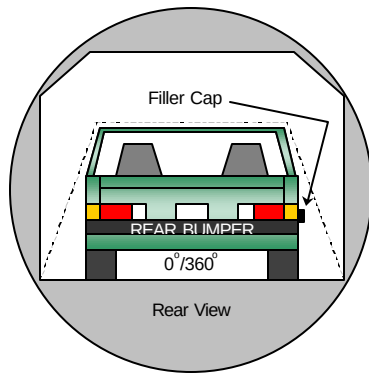
Stoddard Solvent Spillage Measurements

- 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 Details: No leakage occurred

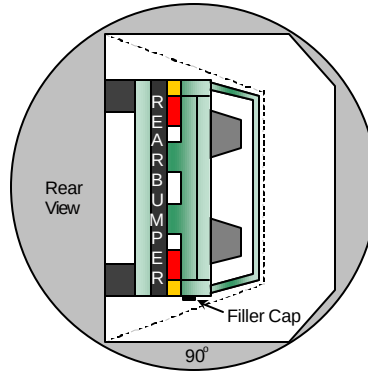
DATA SHEET NO. 17
FMVSS 301 STATIC ROLLOVER DATA SHEET

Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan
 Test Program: 55/28 km/h 90° Side Impact NCAP

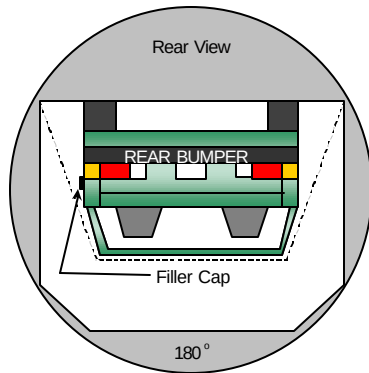
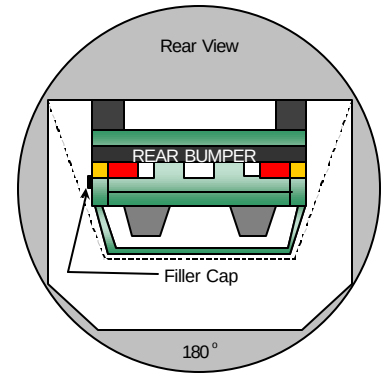
NHTSA No.: M30201
 Test Date: 11/12/02



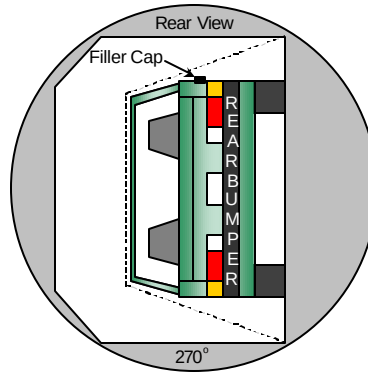
0° TO 90°



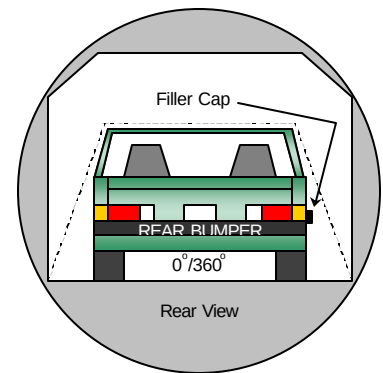
90° TO 180°



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. Details of Stoddard Solvent spillage locations.

No solvent leakage occurred during static rollover testing.

Rollover Test Phase	Rotation Time (sec.)	Hold Time (sec.)	Spillage (oz.)
0° TO 90°	82	300	0.0
90° TO 180°	82	300	0.0
180° TO 270°	80	300	0.0
270° TO 360°	82	300	0.0

APPENDIX A
PHOTOGRAPHS

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Figure A-1: Left Front, as Received



Figure A-2: Right Rear, as Received

MFD. BY FORD MOTOR CO.

DATE: 04/02

GVWR: 2632KG/5804LB

FRONT GAWR: 1224KG/2700LB

REAR GAWR: 1407KG/3104LB

THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL MOTOR
VEHICLE SAFETY, BUMPER, AND THEFT PREVENTION STANDARDS
IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.

VIN: 2FAFP73W83X109154 TYPE: PASSENGER

MAXIMUM LOAD = OCCUPANTS + LUGGAGE = 499KG/1100LB

OCCUPANTS = 5/6 TOTAL;

OCCUPANTS LUGGAGE
091KG/0200LB

2/3 FR, 3 RR

TIRE: P225/60R16 9

PRESSURE(FR): 221 kPa/32 PSI COLD

PRESSURE(RR): 241 kPa/35 PSI COLD



2FAFP73W83X109154

TRAILER TOWING - SEE OWNER GUIDE

EXT PNT: WT

RC: 71

DSO:

F0155

BRK

INT TR

TP/PS

R

AXLE

TR

SPR

3FB1G

R0514

3

QC

K

58

H

DDD

B05

MADE IN CANADA

1200204290519

CBC

▽2U5A-5420472-AA

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 Front $\frac{3}{4}$ View, Pre-Test



Figure A-8: Left Front ¾ View, Post-Test



Figure A-9: Left (Impacted) Side View, Pre-Test



Figure A-10: Left (Impacted) Side View, Post-Test



Figure A-11: Left Rear $\frac{3}{4}$ View, Pre-Test



Figure A-12: Left Rear $\frac{3}{4}$ View, Post-Test



Figure A-13: Rear View, Pre-Test



Figure A-14: Rear View, Post-Test



Figure A-15: Overhead Overall View, Pre-Test



Figure A-16: Overhead Overall View, Post-Test



Figure A-17: Overhead Close-up View, Pre-Test



Figure A-18: Overhead Close-up View, Post-Test



Figure A-19: Impact Point Target Set-up, Pre-Test



Figure A-20: Impact Point Target, Post-Test



Figure A-21: Front $\frac{3}{4}$ View of Left Side Doors, Pre-Test



Figure A-22: Front $\frac{3}{4}$ View of Left Side Doors, Post-Test



Figure A-23: Rear $\frac{3}{4}$ View of Left Side Doors, Pre-Test



Figure A-24: Rear ¾ View of Left Side Doors, Post-Test



Figure A-25: Left Front Door Closed, Pre-Test



Figure A-26: Left Front Door Closed, Post-Test



Figure A-27: Left Rear Door Closed, Pre-Test



Figure A-28: Left Rear Door Closed, Post-Test



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



Figure A-30: Driver Dummy Left Side, Pre-test



Figure A-31: Driver Dummy Left Side, Post-Test



Figure A-32: Driver Dummy Clearance, Pre-Test



Figure A-33: Driver Dummy Clearance, Post-Test



Figure A-34: Driver Dummy Inside View, Pre-Test



Figure A-35: Driver Dummy Inside View, Post-Test



Figure A-36: Driver Door Inside View, Pre-Test



Figure A-37: Driver Dummy Contact Points Inside View, Post-Test (Vehicle Moved)



Figure A-38: Passenger Dummy Left Side with Door Open, Pre-Test



Figure A-39: Passenger Dummy Left Side, Pre-Test



Figure A-40: Passenger Dummy Left Side, Post-Test



Figure A-41: Passenger Dummy Clearance, Pre-Test



Figure A-42: Passenger Dummy Clearance, Post-Test



Figure A-43: Passenger Dummy Inside View, Pre-Test



Figure A-44: Passenger Dummy Inside View, Post-Test



Figure A-45: Passenger Door Inside View, Pre-Test



Figure A-46: Passenger Dummy Contact Points Inside View, Post-Test (Vehicle Moved)



Figure A-47: Front View of Deformable Barrier, Pre-Test



Figure A-48: Front View of Deformable Barrier, Post-Test

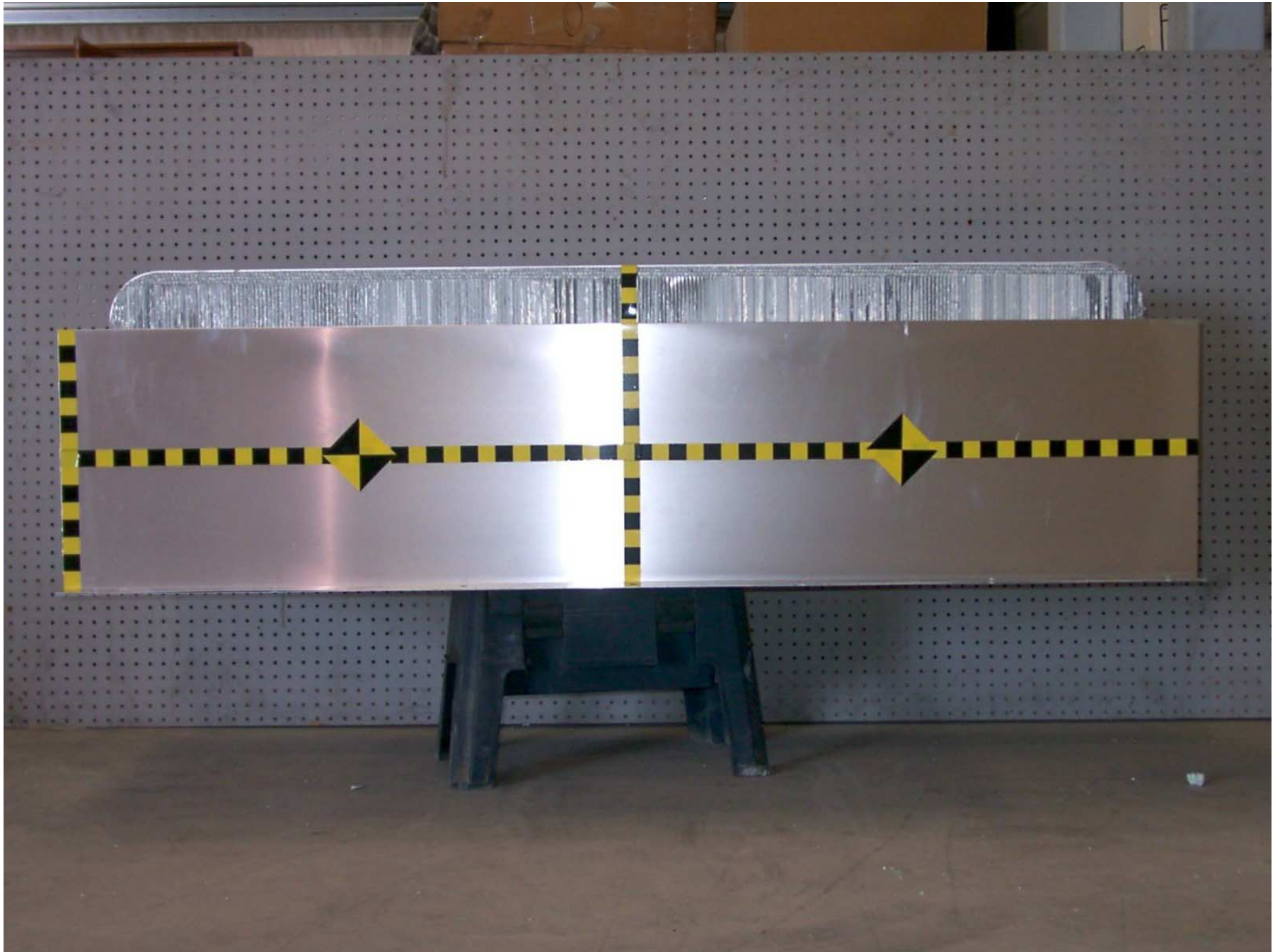


Figure A-49: Top View of Deformable Barrier, Pre-Test



Figure A-50: Top View of Deformable Barrier, Post-Test



Figure A-51: Right Side View of Deformable Barrier, Pre-Test



Figure A-52: Right Side View of Deformable Barrier, Post-Test



Figure A-53: Left Side View of Deformable Barrier, Pre-Test



Figure A-54: Left Side View of Deformable Barrier, Post-Test



Figure A-55: Vehicle on Rollover Device, Top View



Figure A-56: Vehicle During Impact



Figure A-57: Post-Test Dummy

APPENDIX B
SID, VEHICLE, AND MDB RESPONSE DATA

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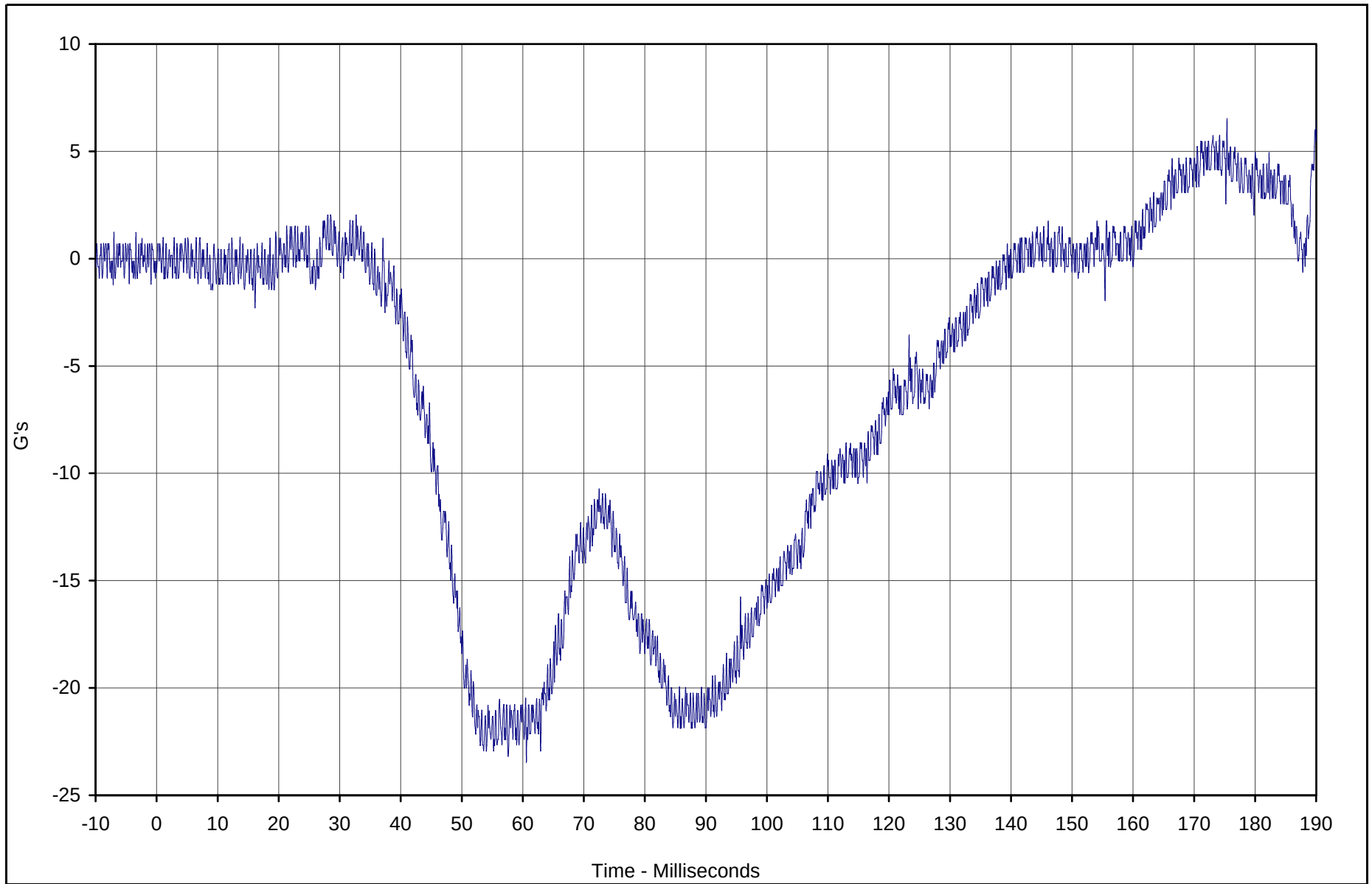
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Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Head X	001	FIL	G's	6.5	175.4	-23.4	60.6	1000

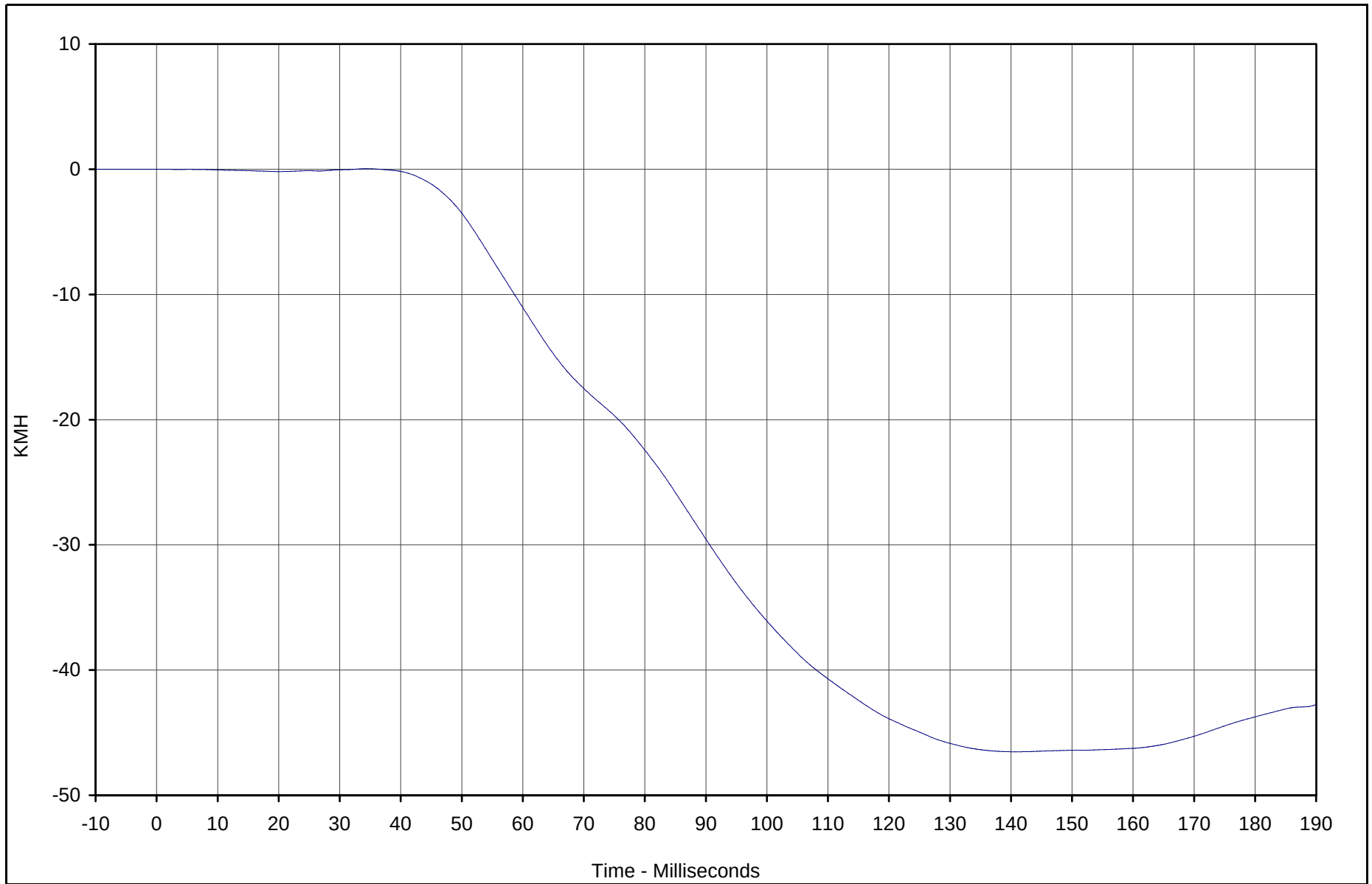


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Head X Velocity	001	IN1	KMH	0.0	34.5	-46.5	140.6	180

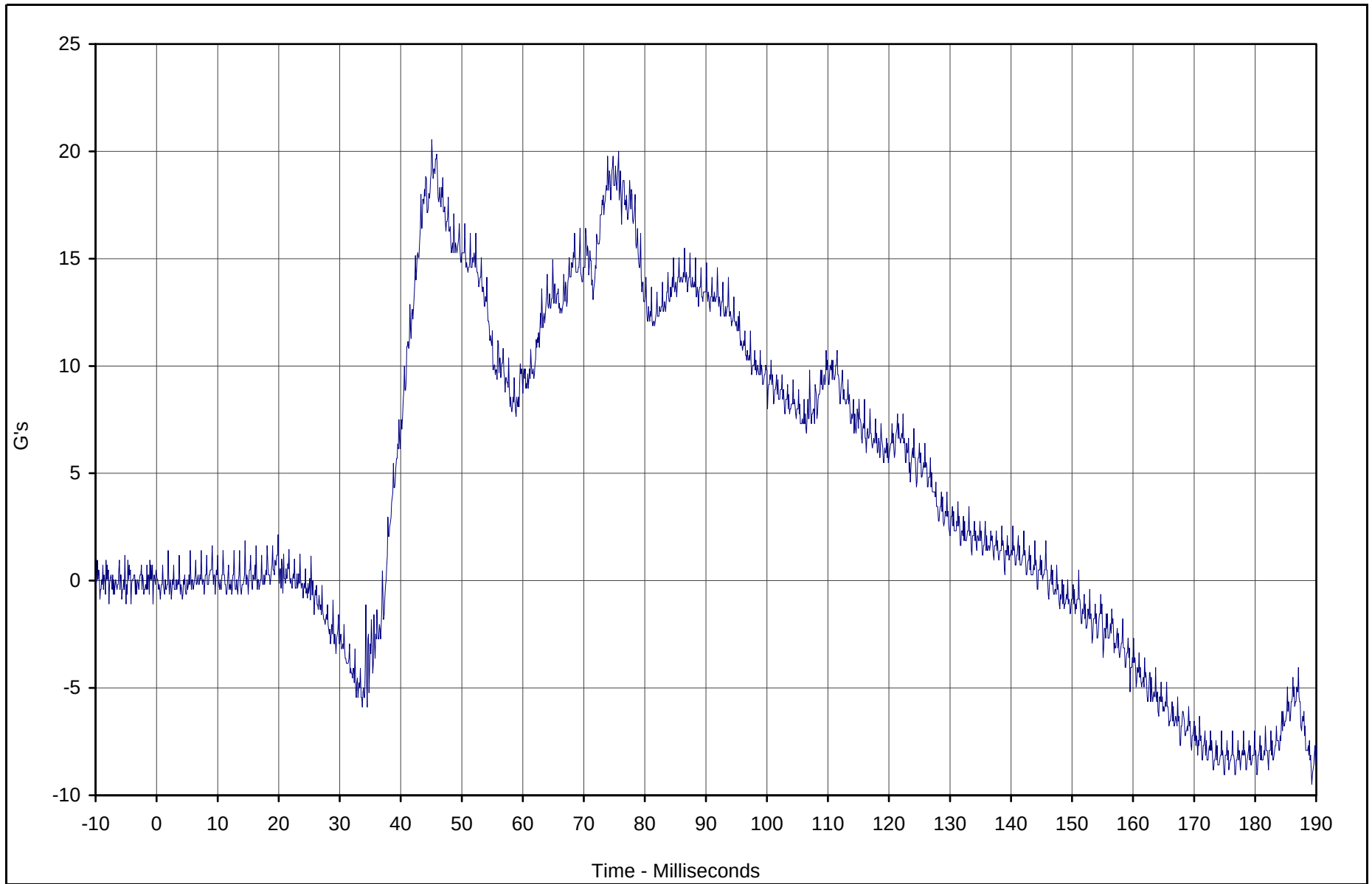


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Head Y	002	FIL	G's	20.5	45.1	-9.5	189.3	1000

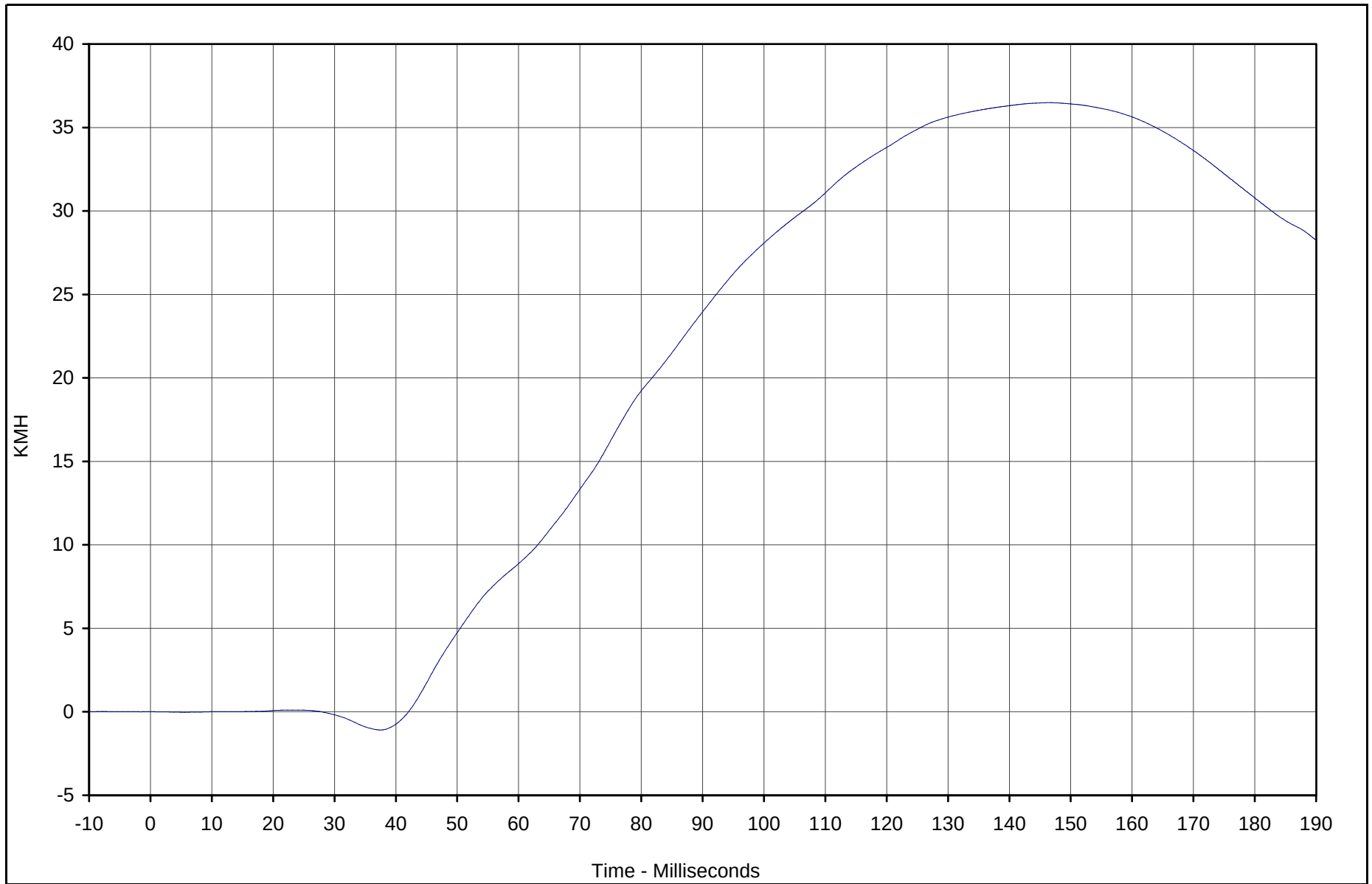


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Head Y Velocity	002	IN1	KMH	36.5	146.4	-1.1	37.5	180

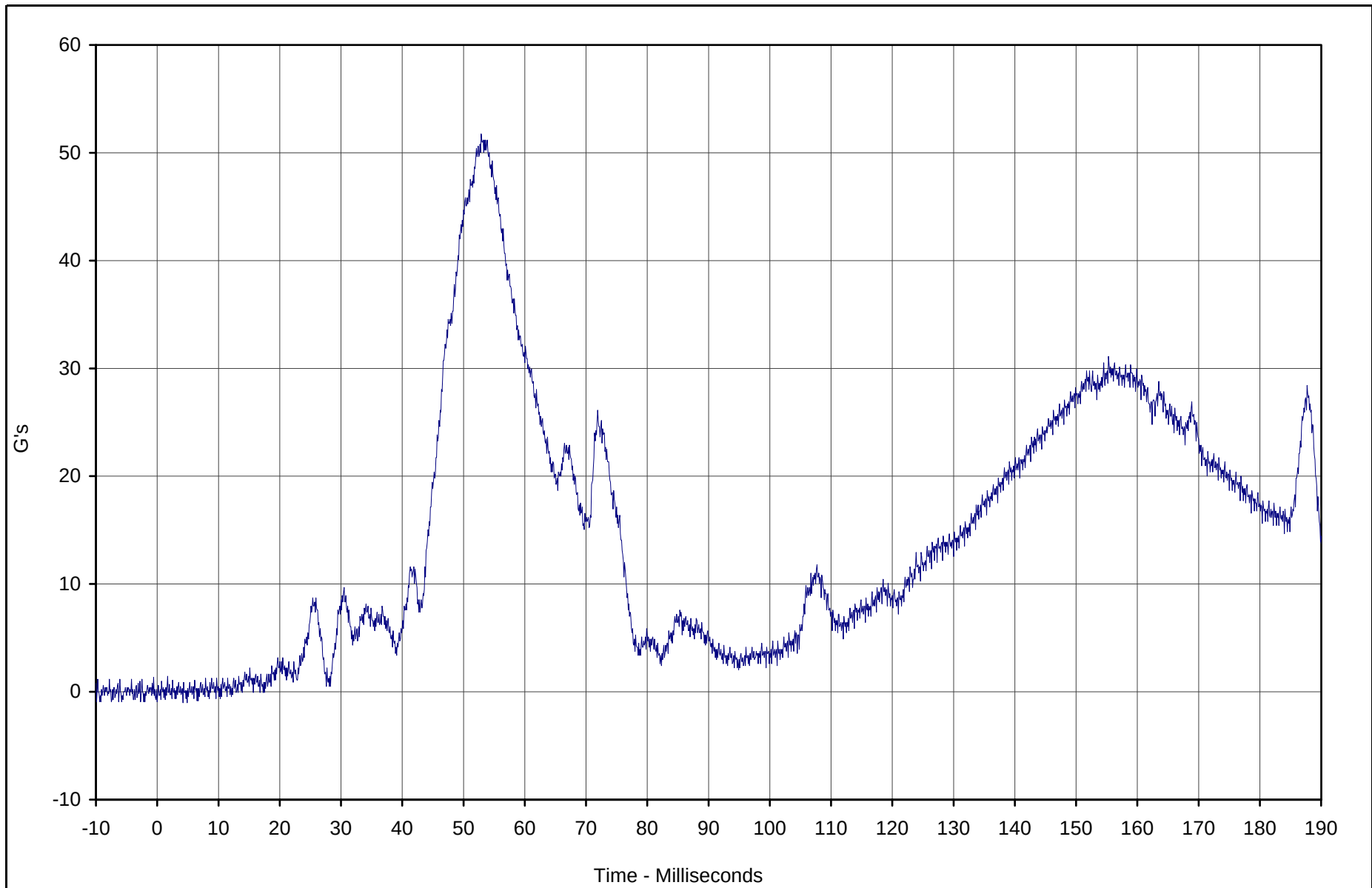


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Head Z	003	FIL	G's	51.8	52.9	-1.0	4.2	1000

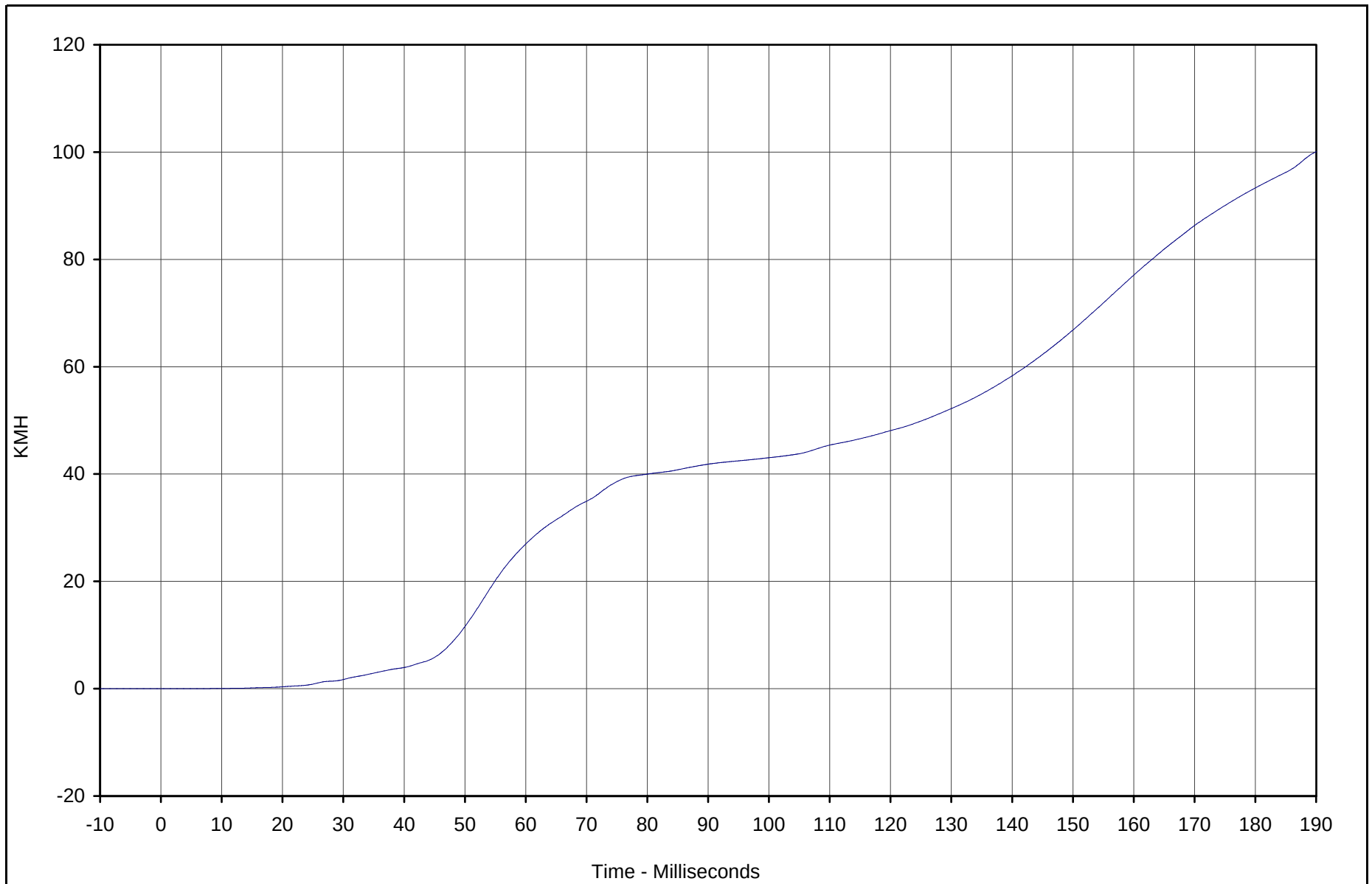


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Head Z Velocity	003	IN1	KMH	100.0	189.9	0.0	0.7	180

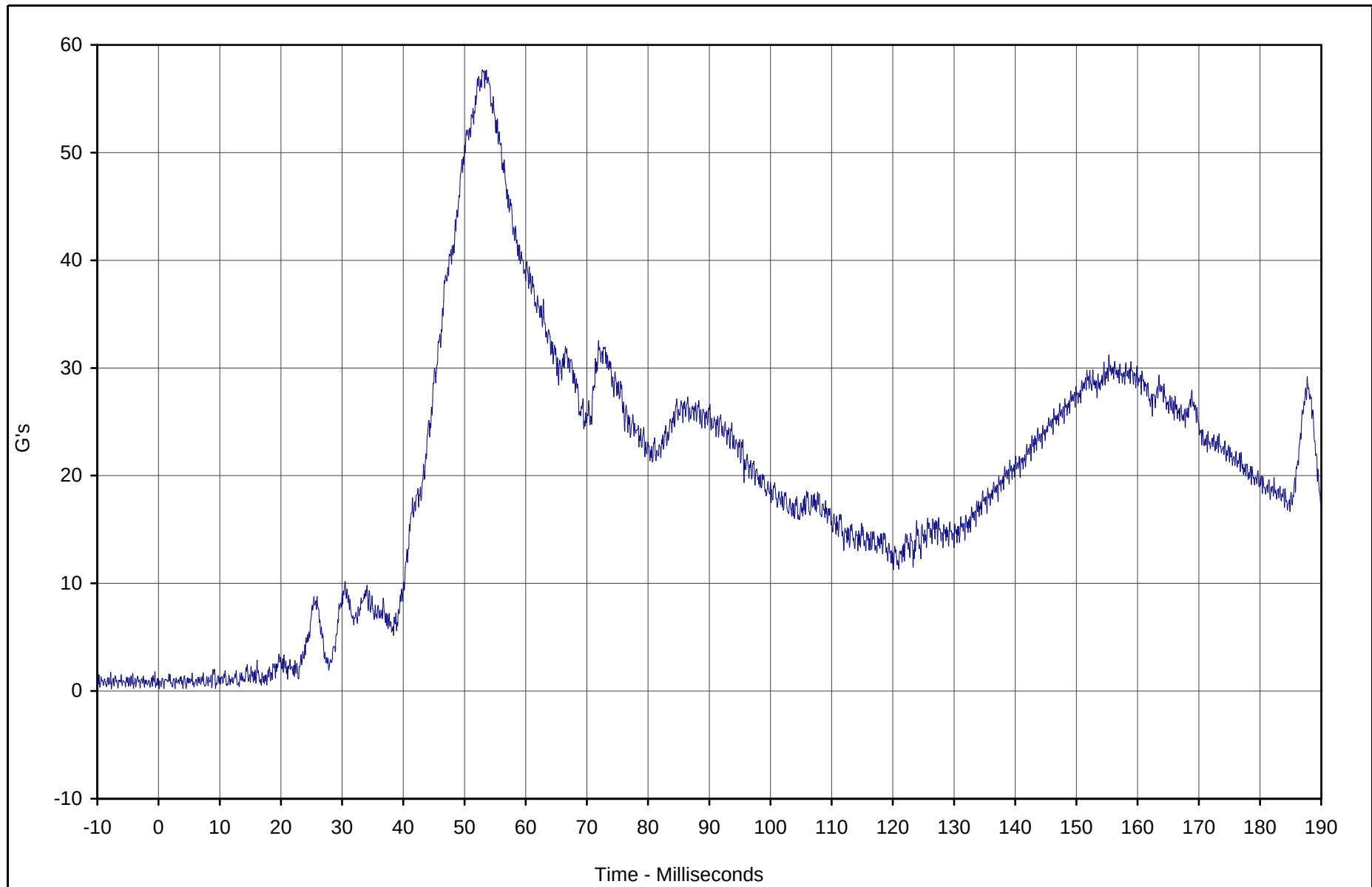


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Head Resultant	001	RES	G's	57.7	52.9	0.2	0.1	1000

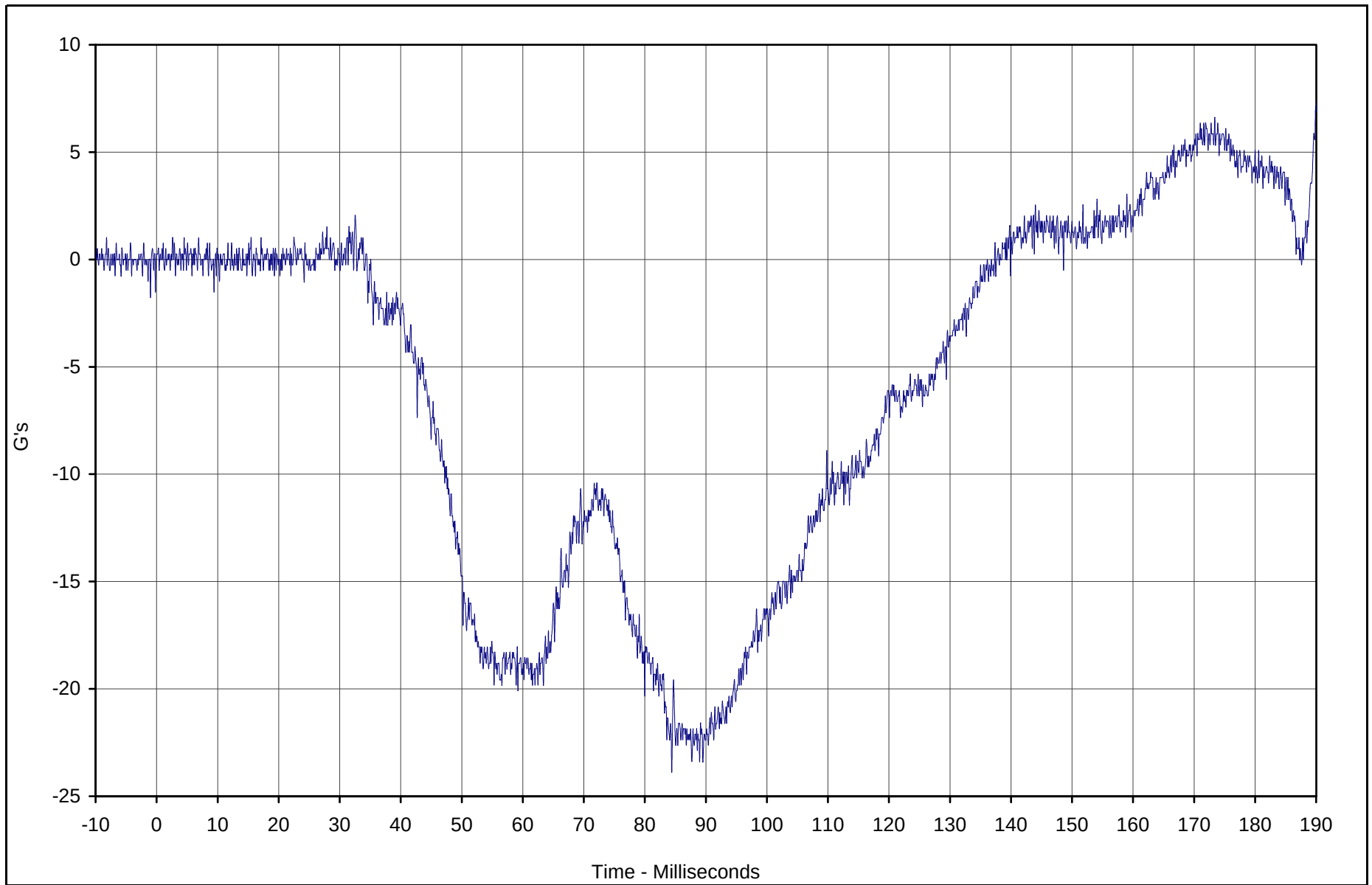


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Head X Redundant	004	FIL	G's	7.1	189.9	-23.9	84.4	1000

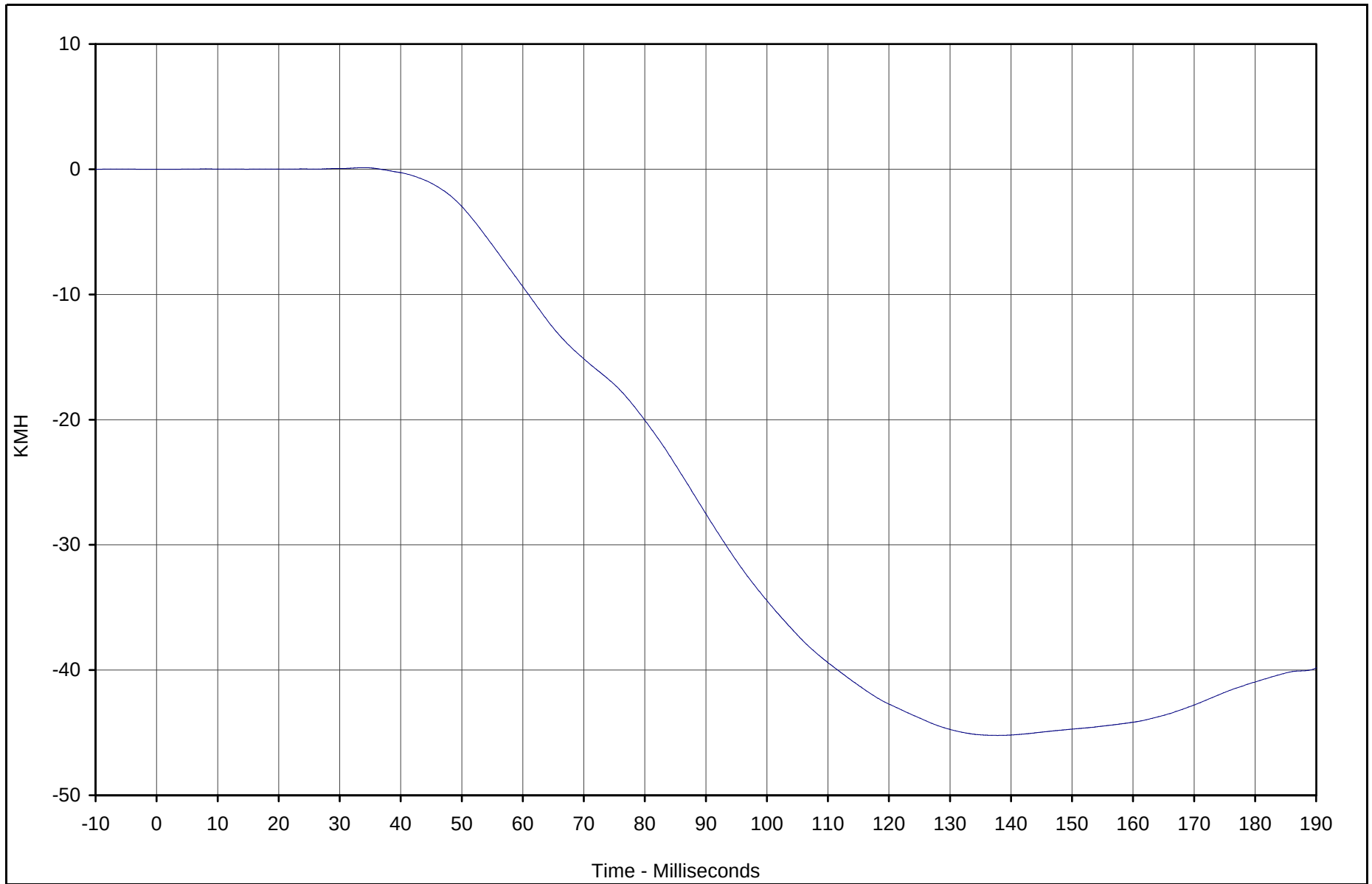


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Head X Redundant Velocity	004	IN1	KMH	0.1	34.0	-45.2	137.8	180

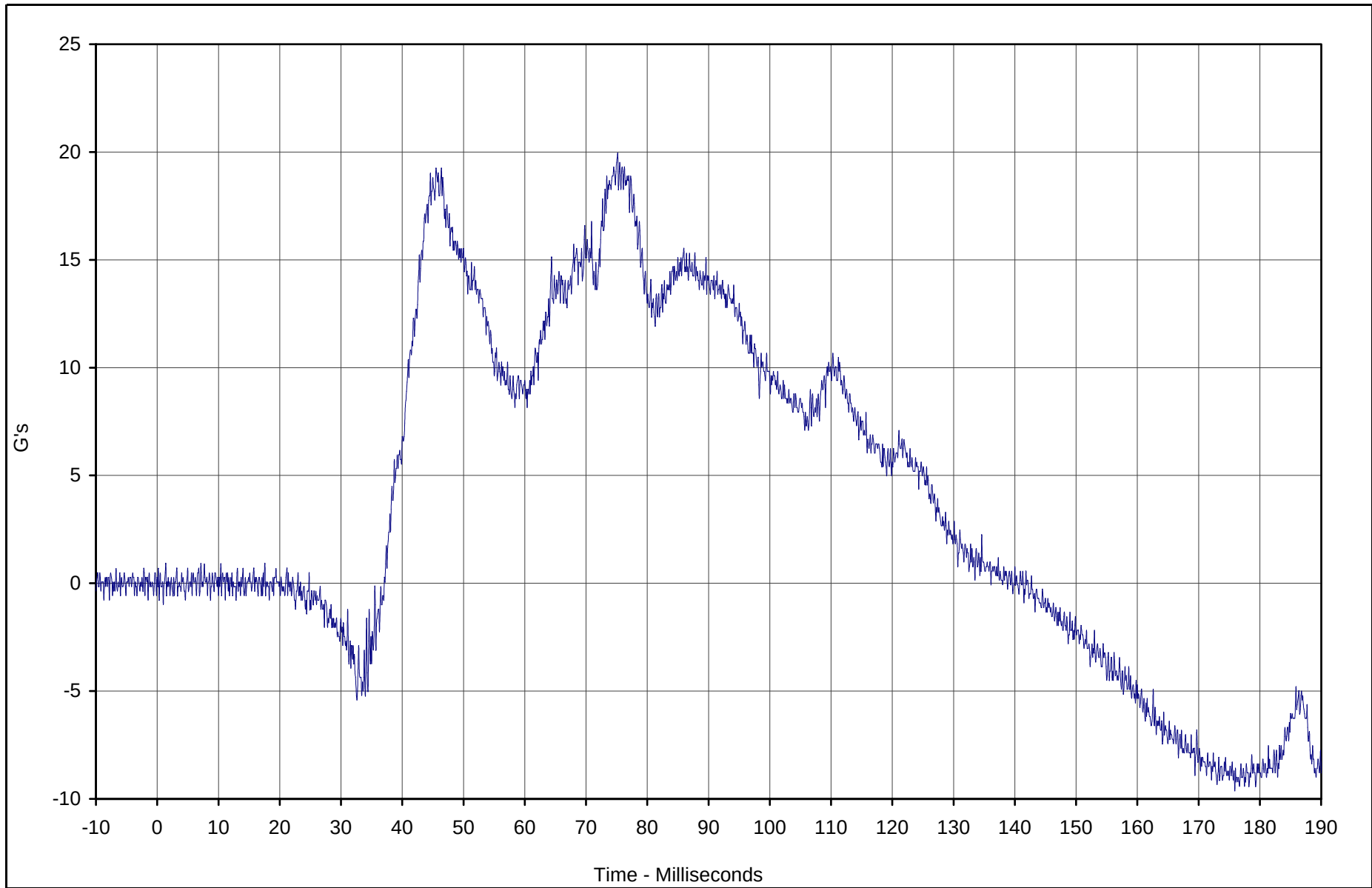


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Head Y Redundant	005	FIL	G's	19.9	75.2	-9.6	175.9	1000

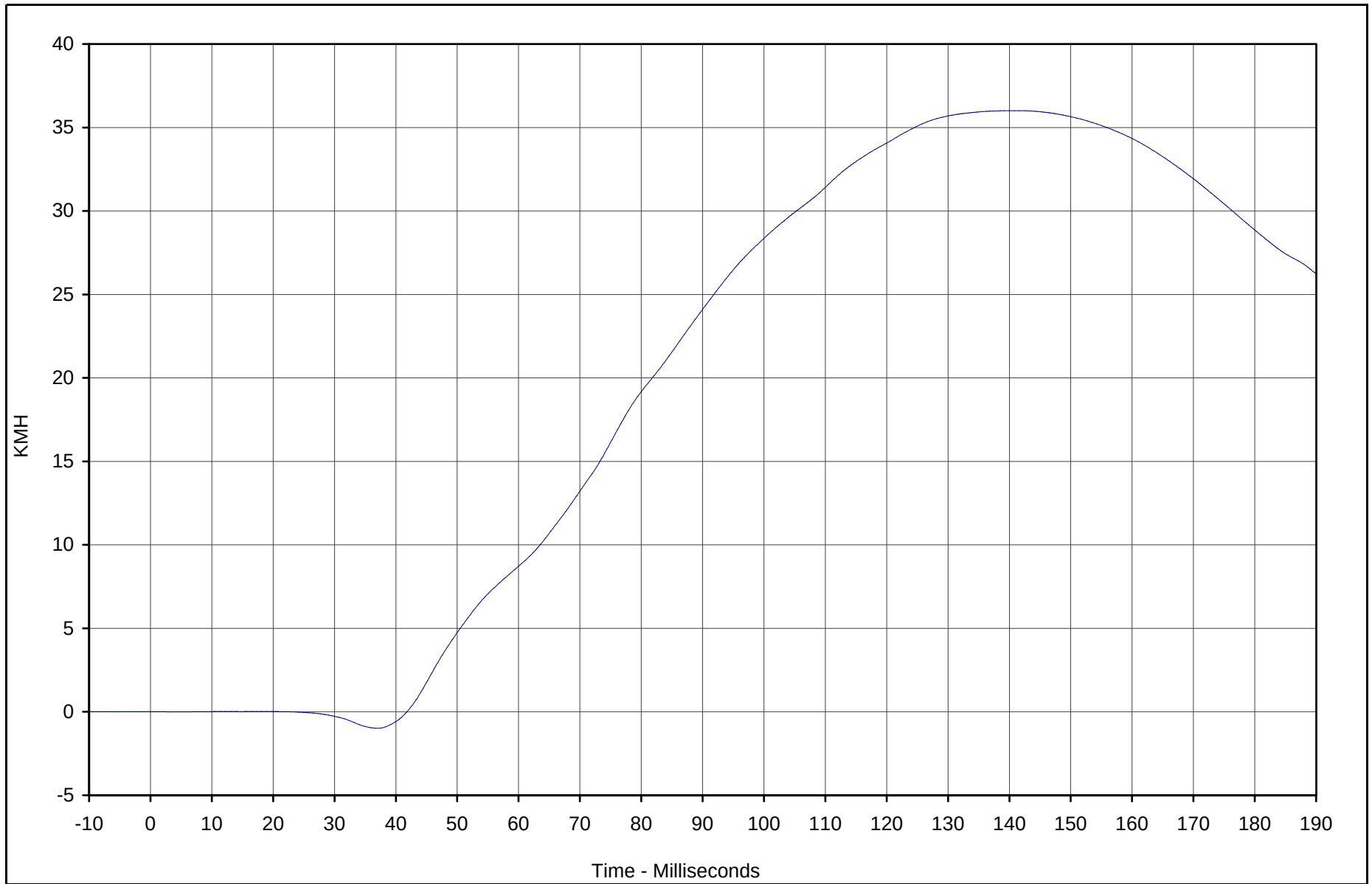


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Head Y Redundant Velocity	005	IN1	KMH	36.0	141.0	-1.0	37.0	180

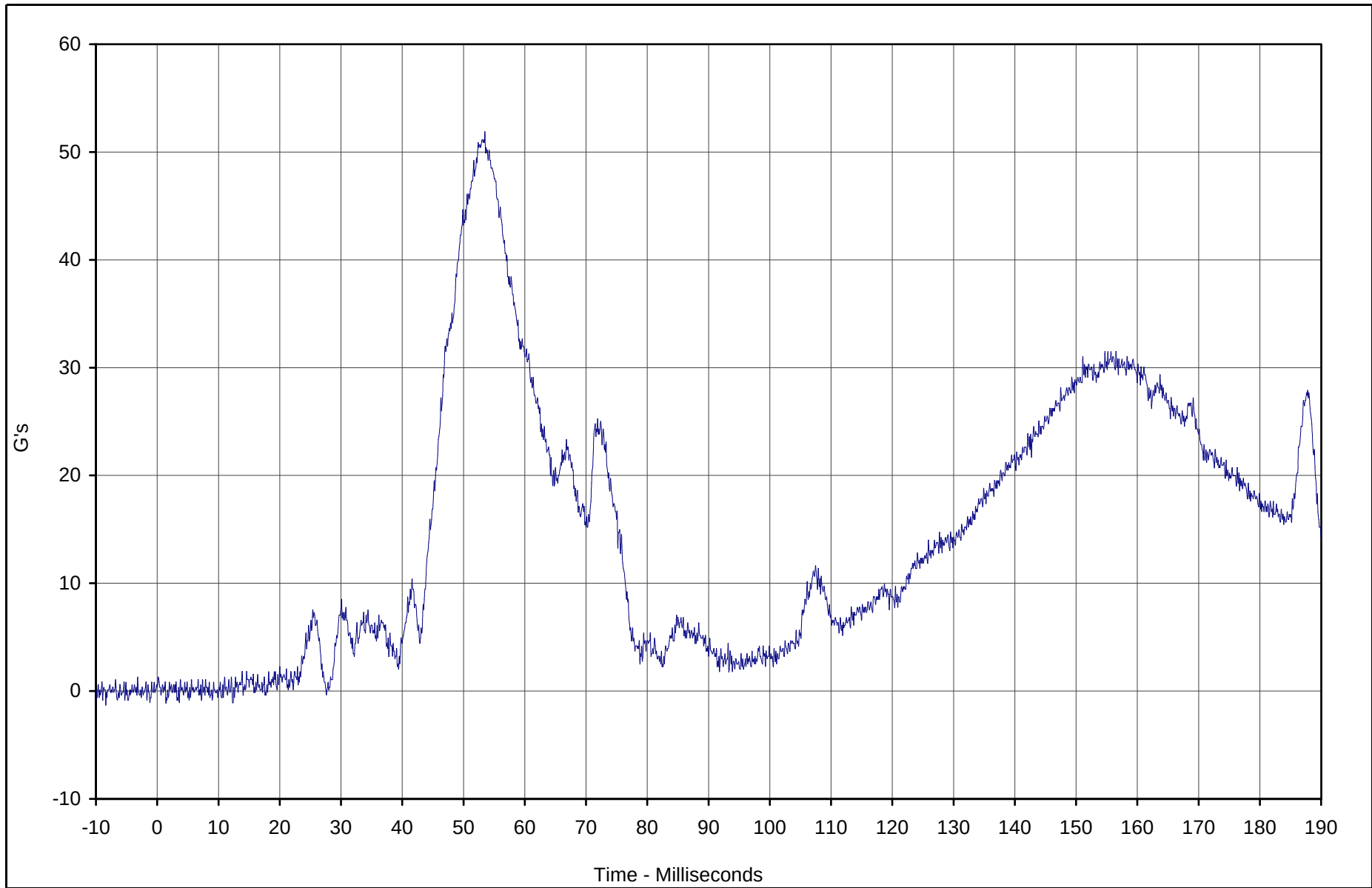


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Head Z Redundant	006	FIL	G's	51.9	53.5	-1.1	1.4	1000

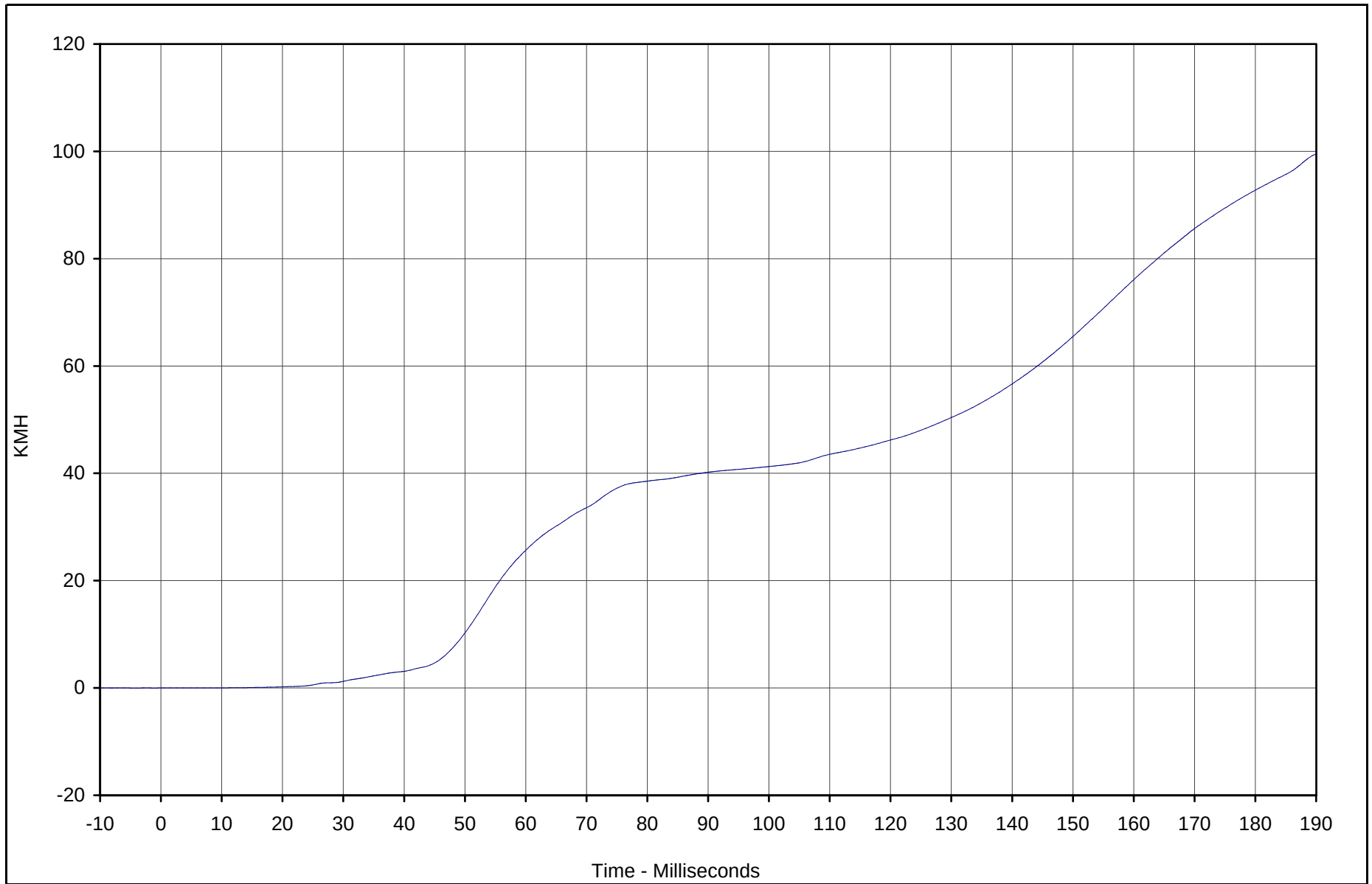


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Head Z Redundant Velocity	006	IN1	KMH	99.5	189.9	0.0	0.0	180

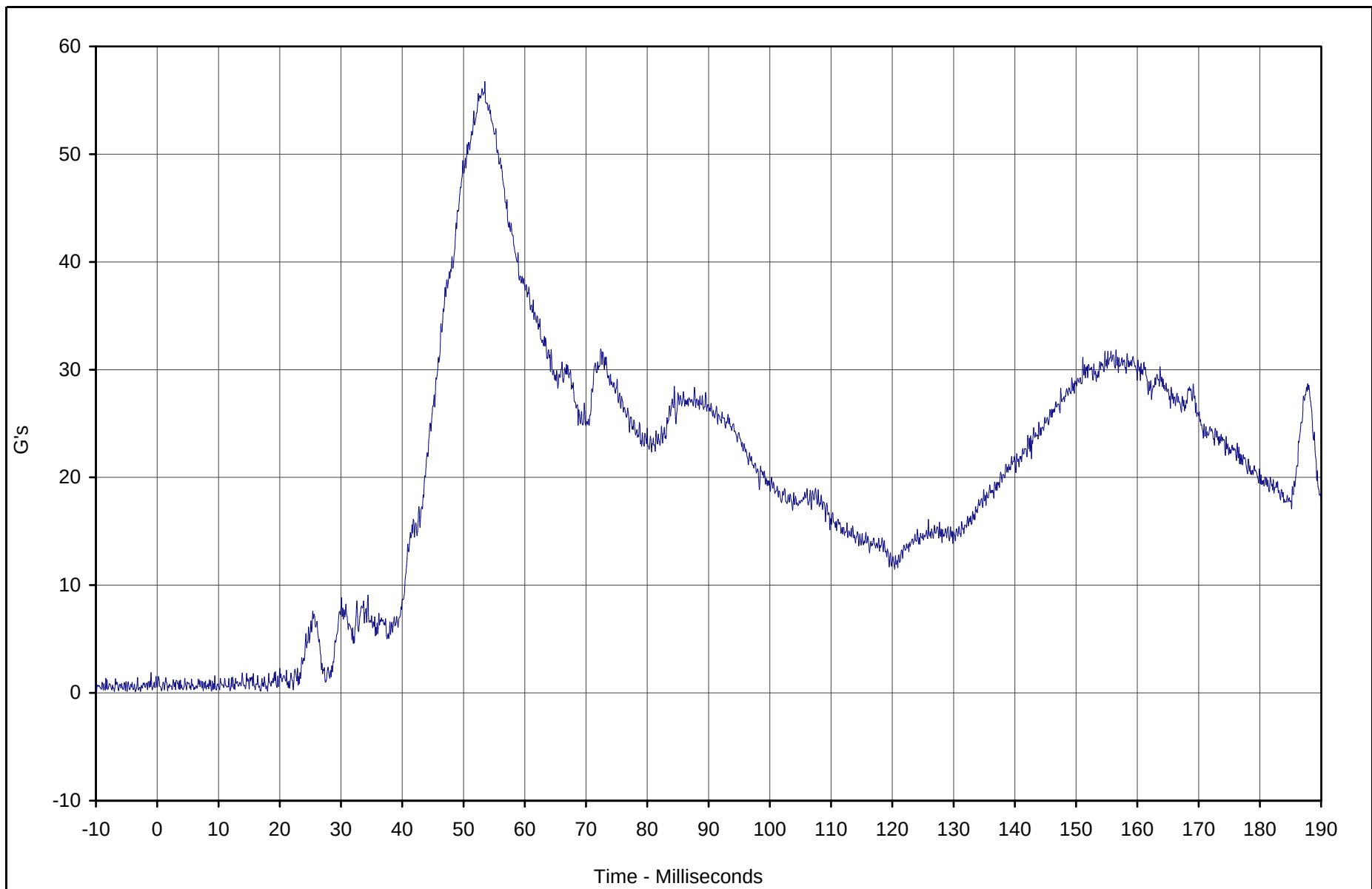


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Head Redundant Resultant	004	RES	G's	56.7	53.5	0.1	18.0	1000

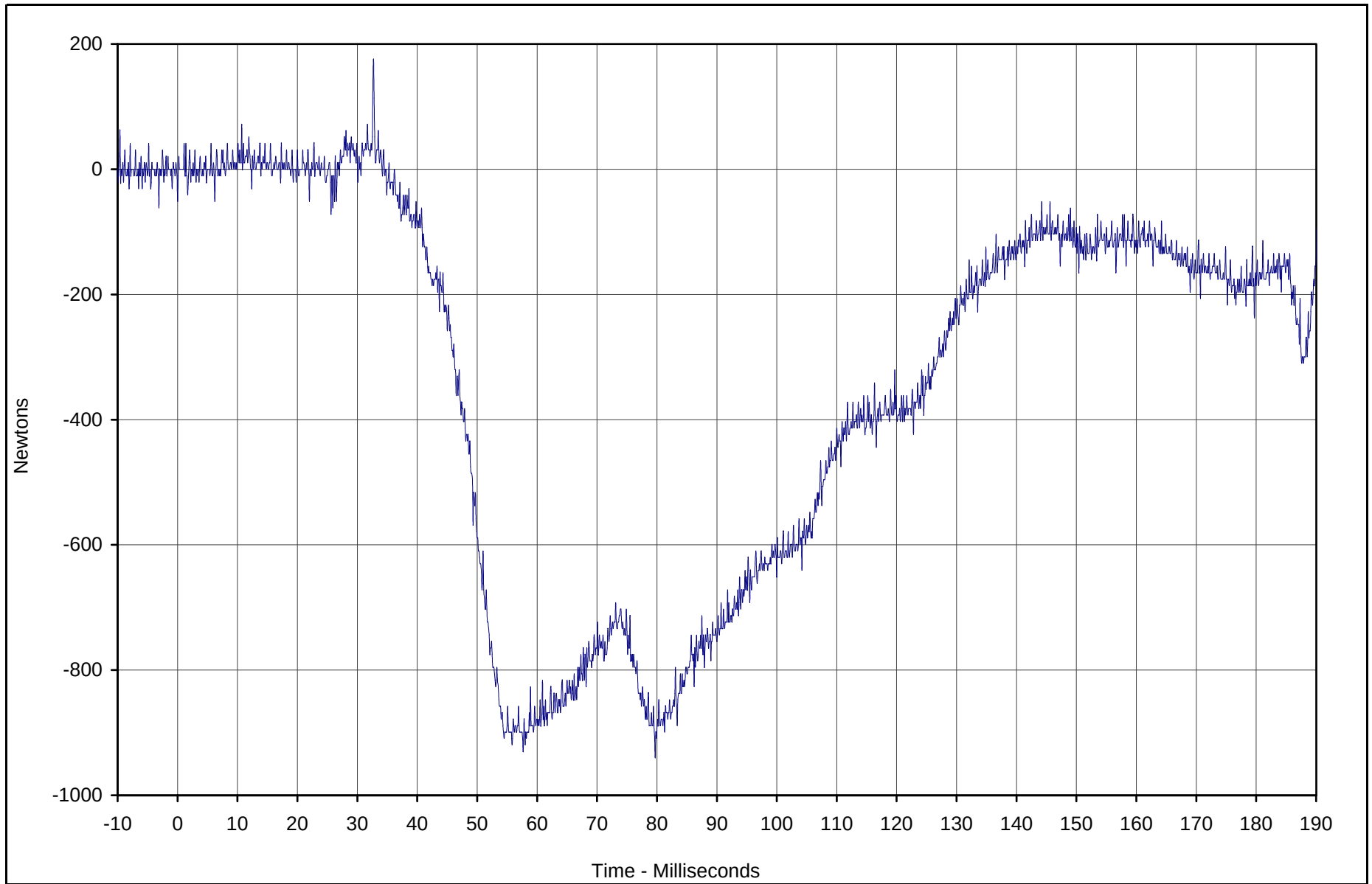


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Neck Force X	007	FIL	Newtons	175.7	32.7	-940.4	79.7	1000

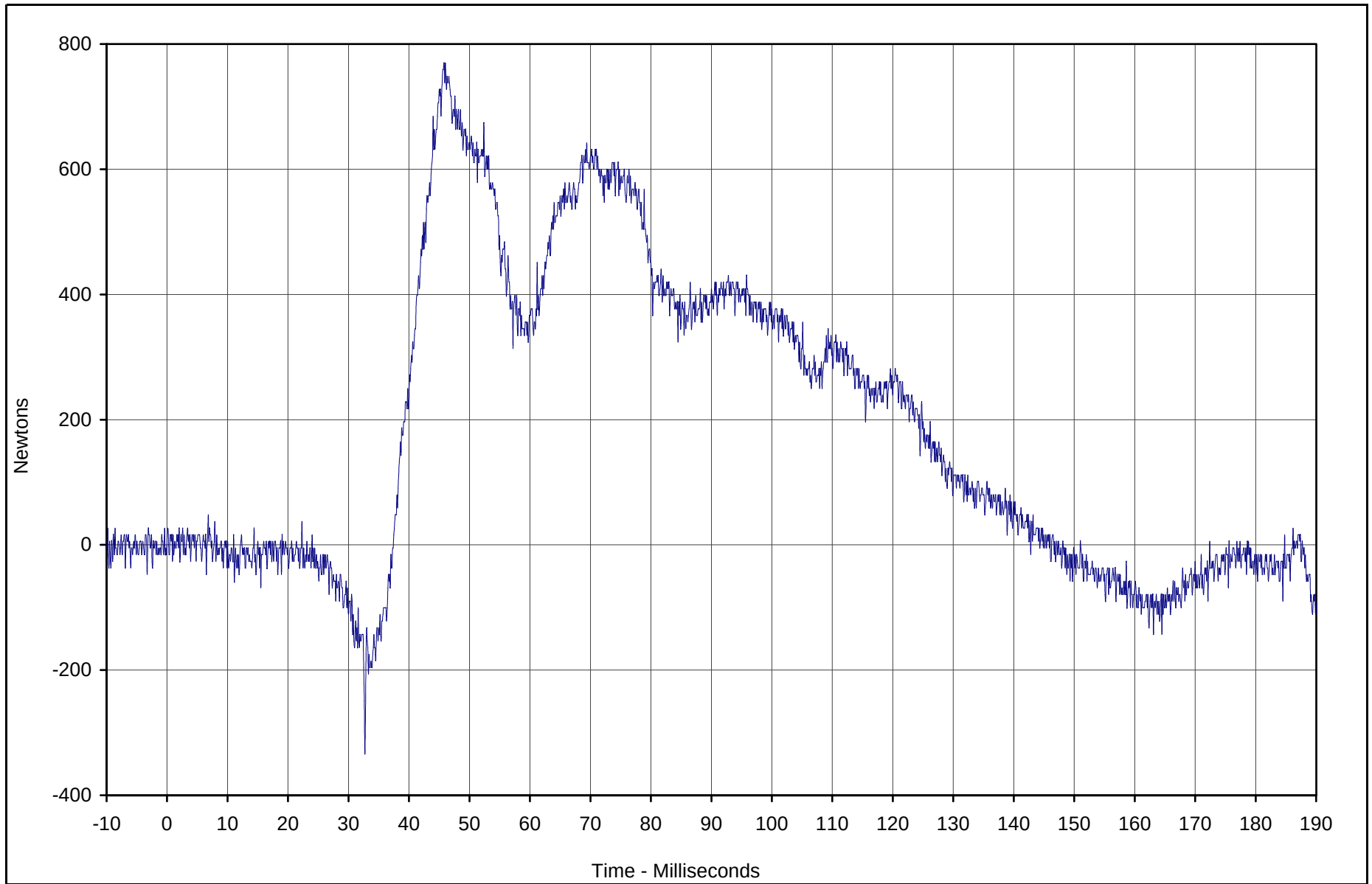


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Neck Force Y	008	FIL	Newtons	769.8	45.8	-334.0	32.7	1000

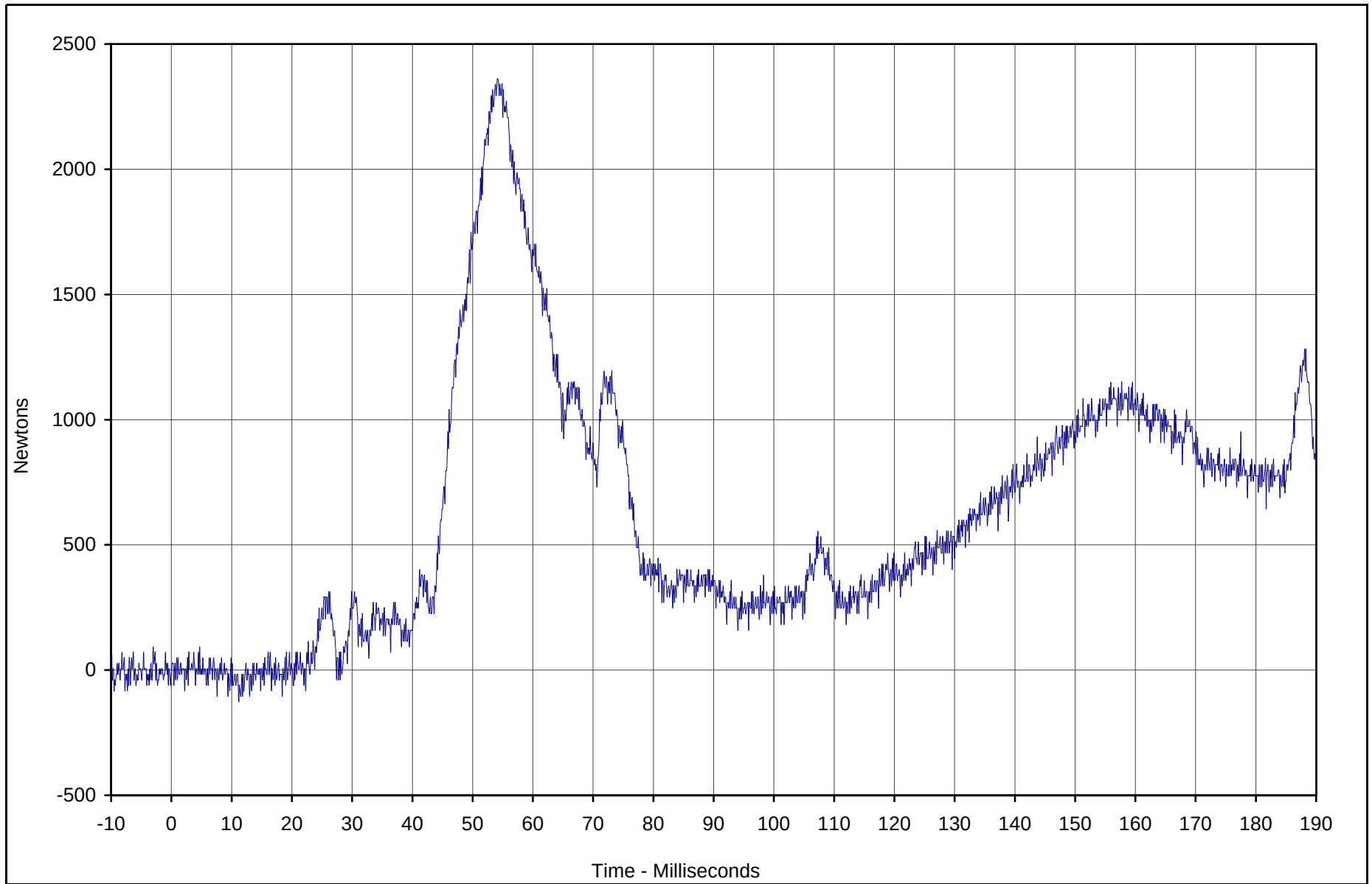


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Neck Force Z	009	FIL	Newtons	2360.7	54.1	-127.1	11.2	1000

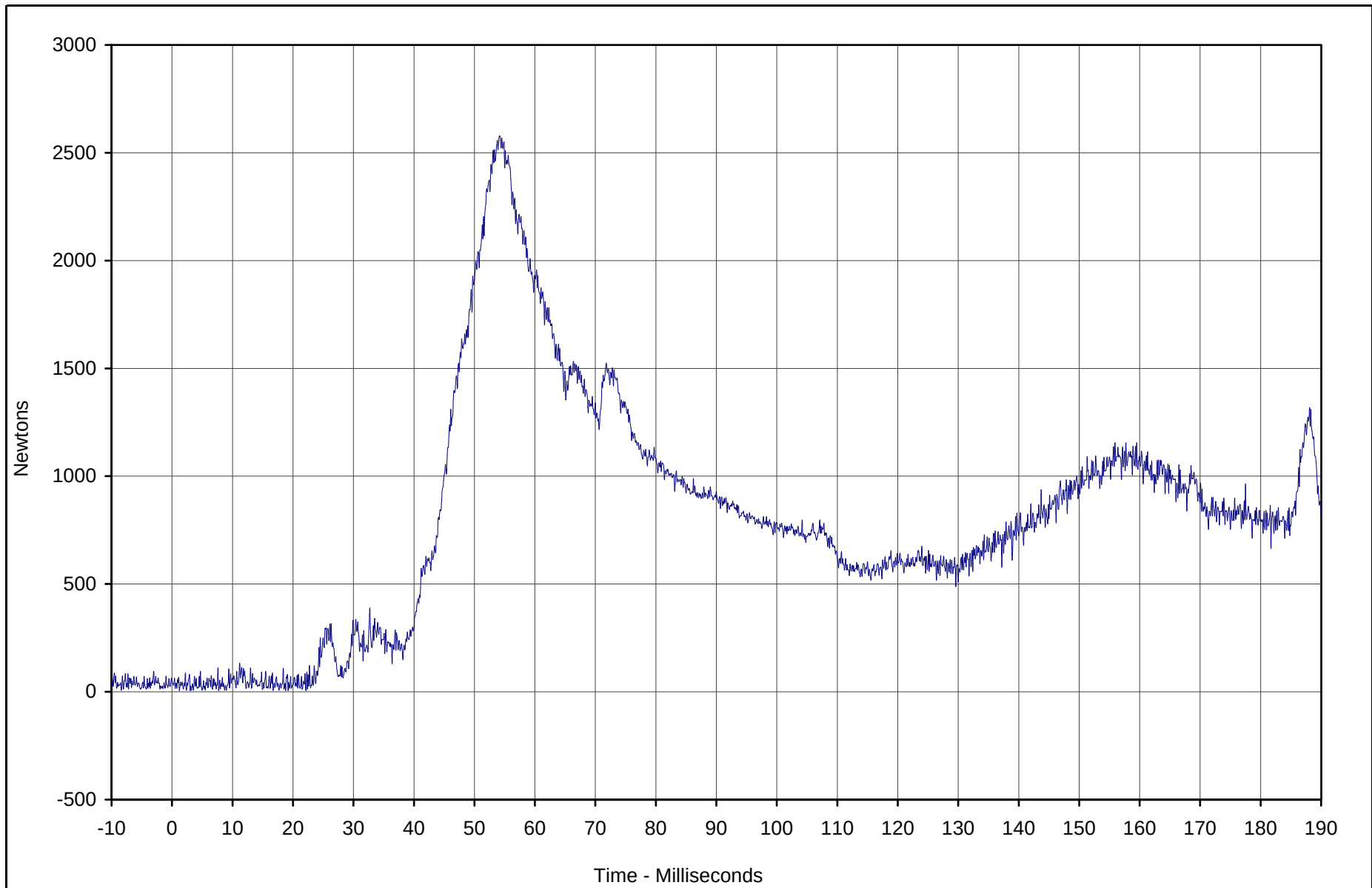


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Neck Force Resultant	007	RES	Newtons	2578.6	54.2	7.1	1.2	1000

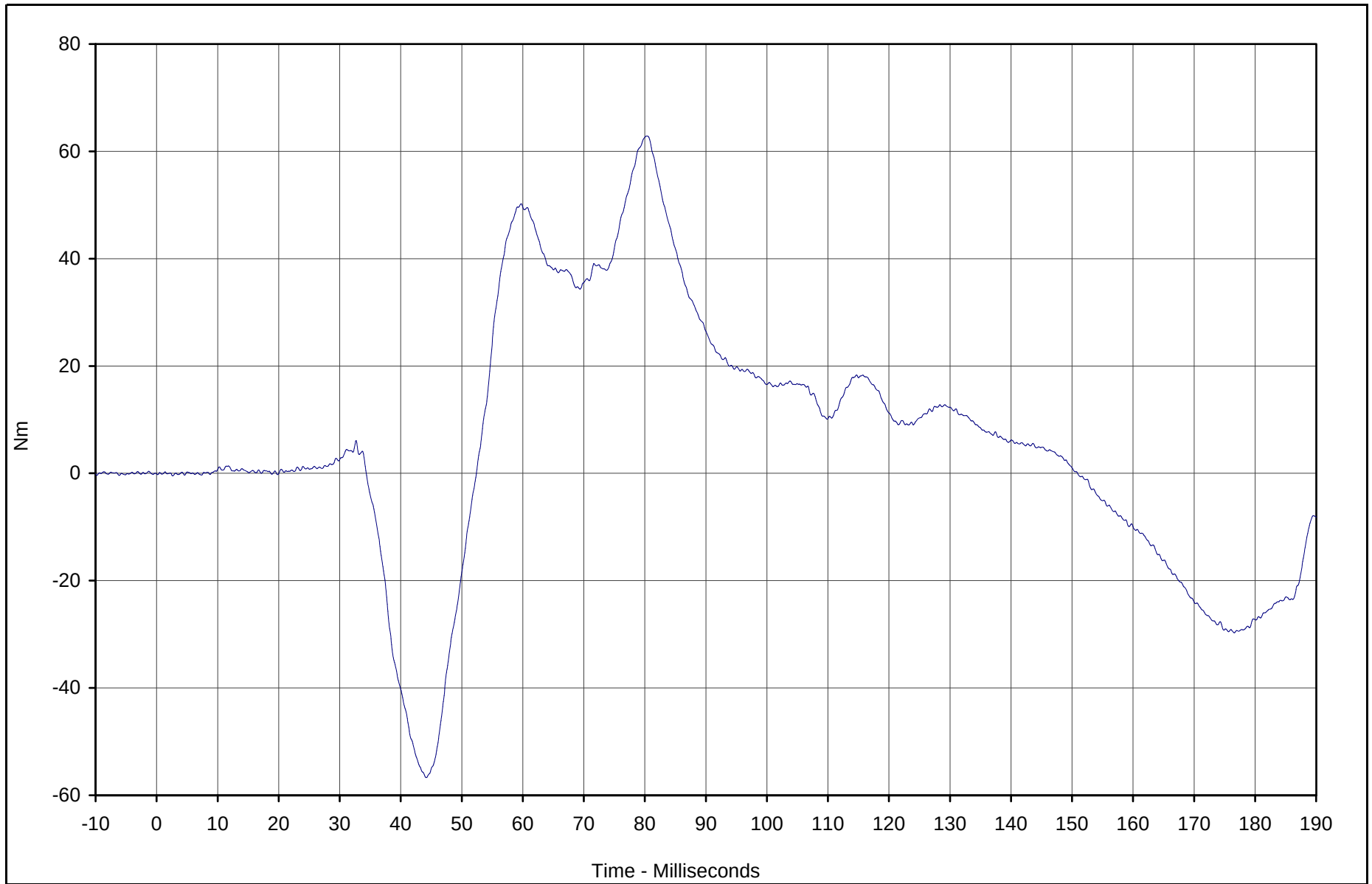


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Neck Moment X	010	FIL	Nm	62.9	80.3	-56.7	44.2	600

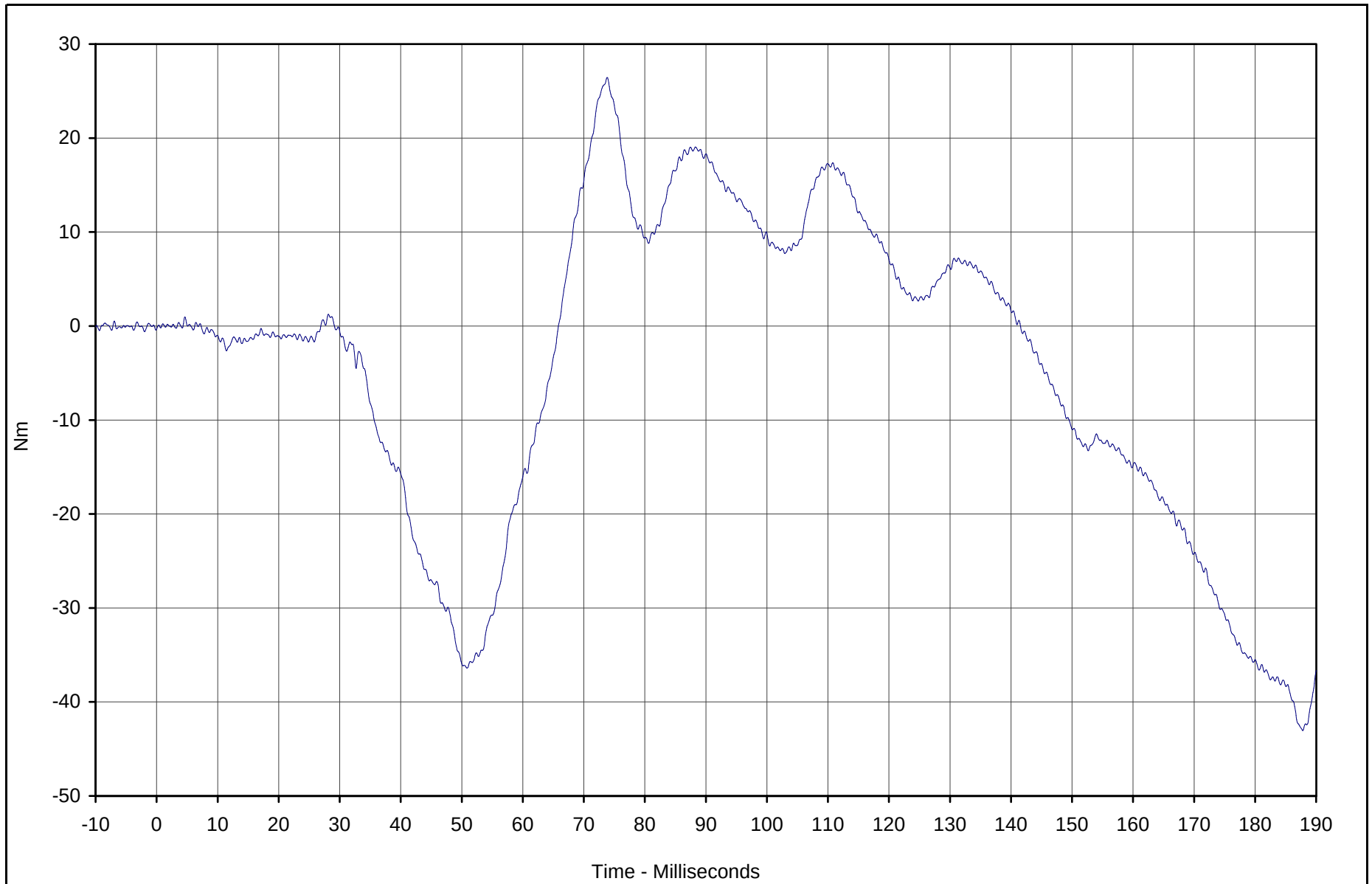


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Neck Moment Y	011	FIL	Nm	26.4	73.8	-43.1	187.8	600

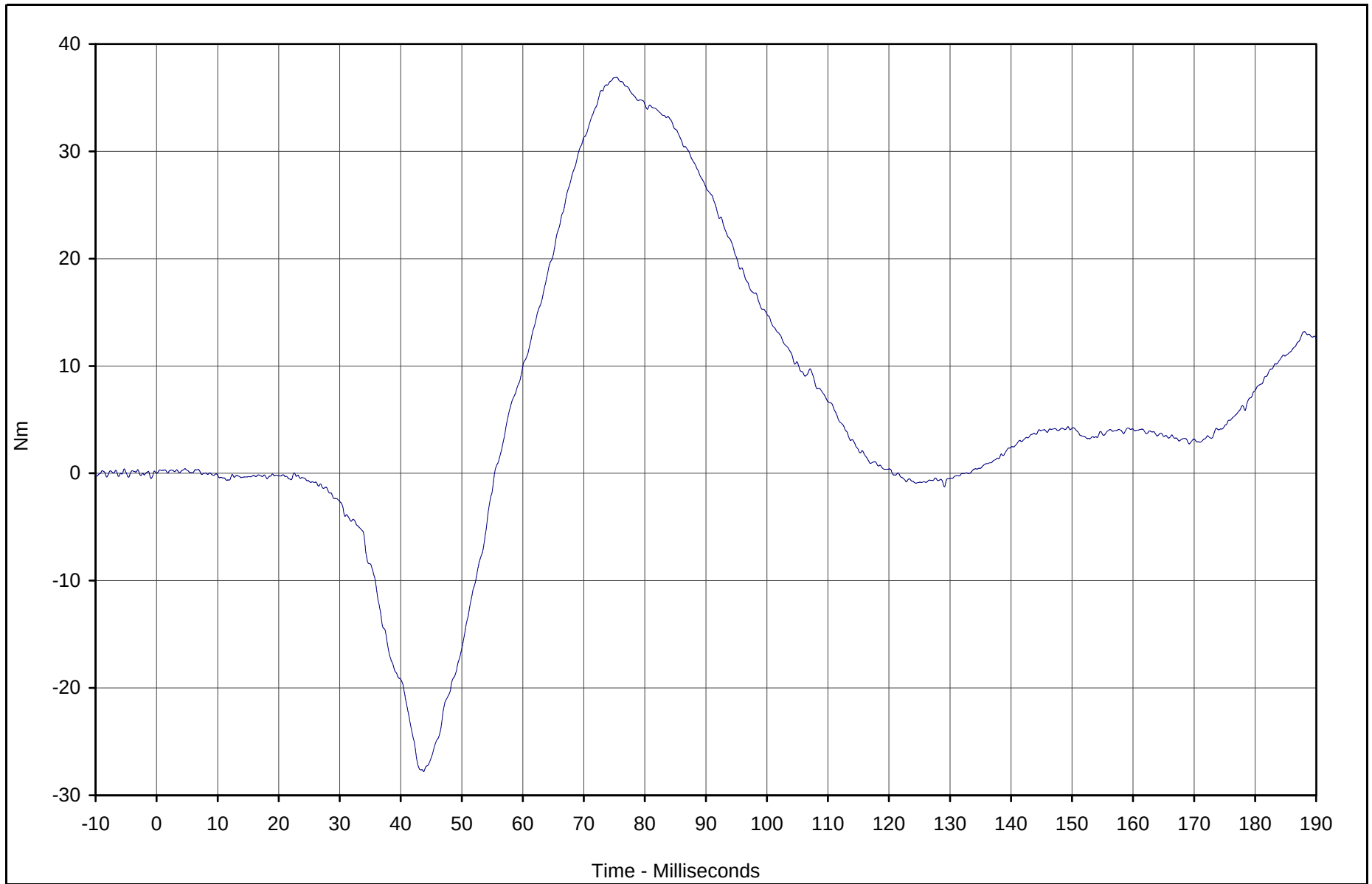


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Neck Moment Z	012	FIL	Nm	36.9	75.4	-27.8	43.8	600

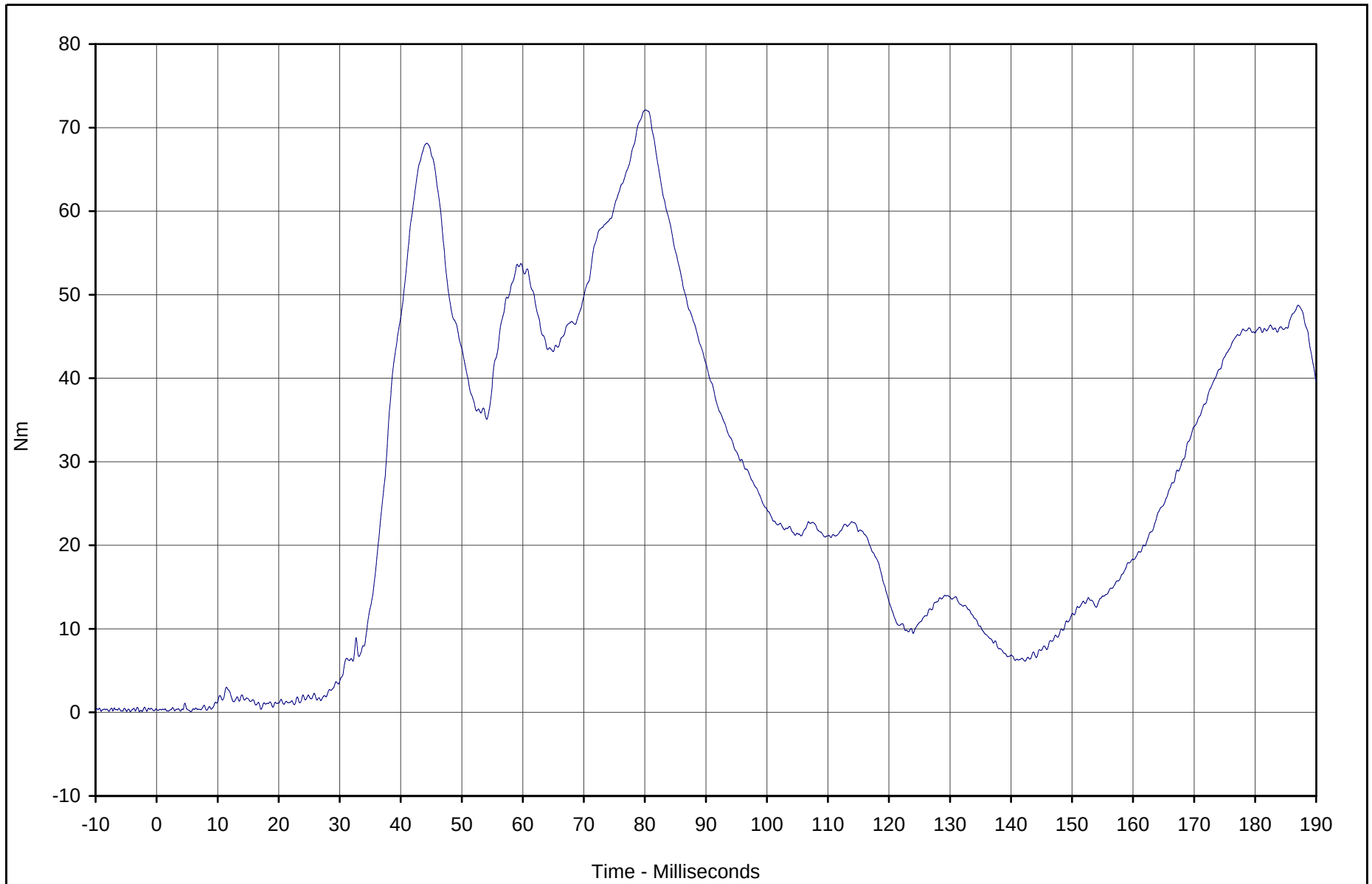


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Neck Moment Resultant	010	RES	Nm	72.1	80.1	0.1	5.6	600

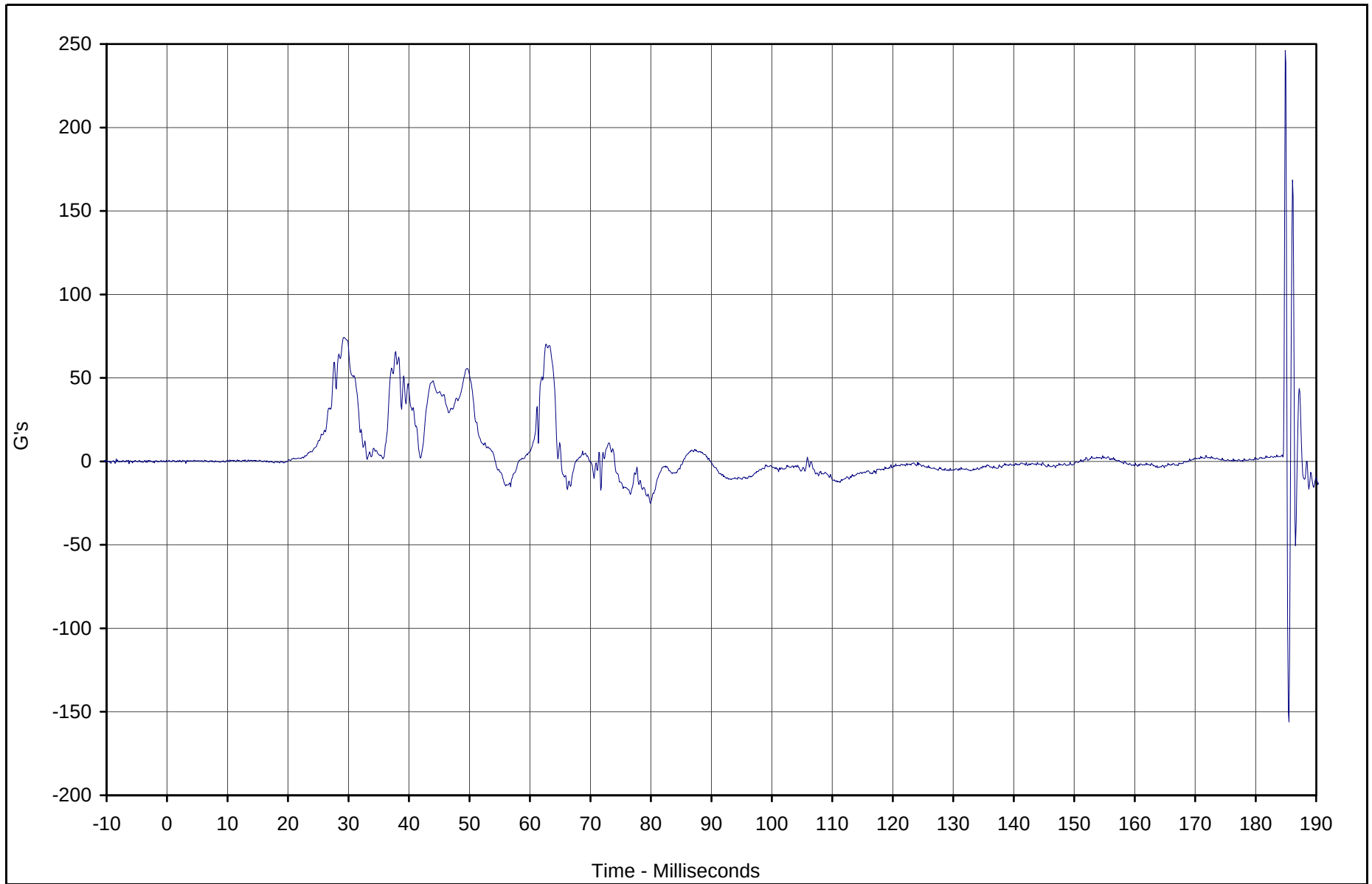


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Upper Rib Primary Y	013	FIL	G's	246.2	184.9	-156.1	185.5	1000

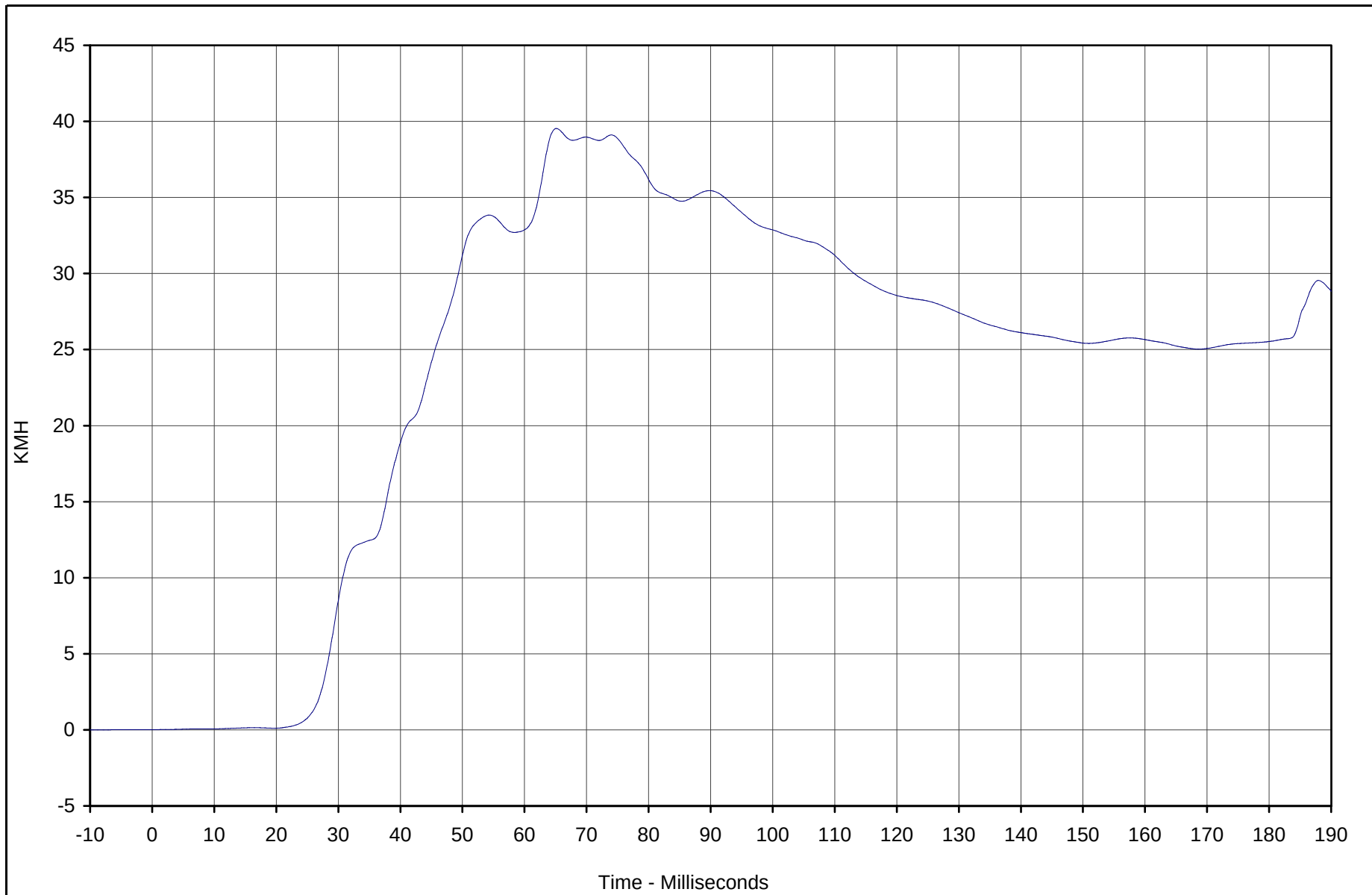


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Upper Rib Primary Y Vel.	013	IN1	KMH	39.5	65.1	0.0	0.0	180

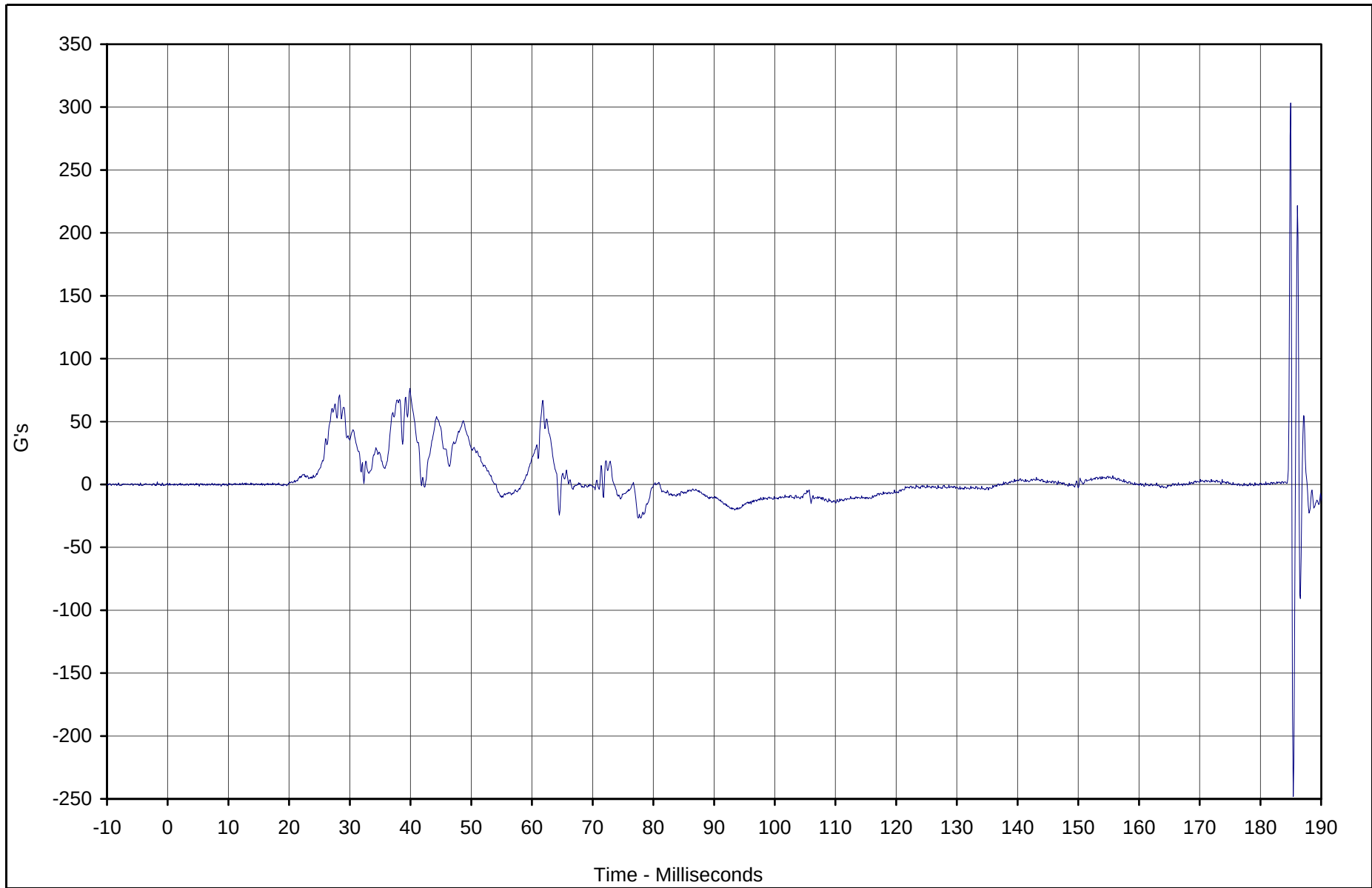


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Lower Rib Primary Y	014	FIL	G's	303.3	185.0	-248.2	185.4	1000

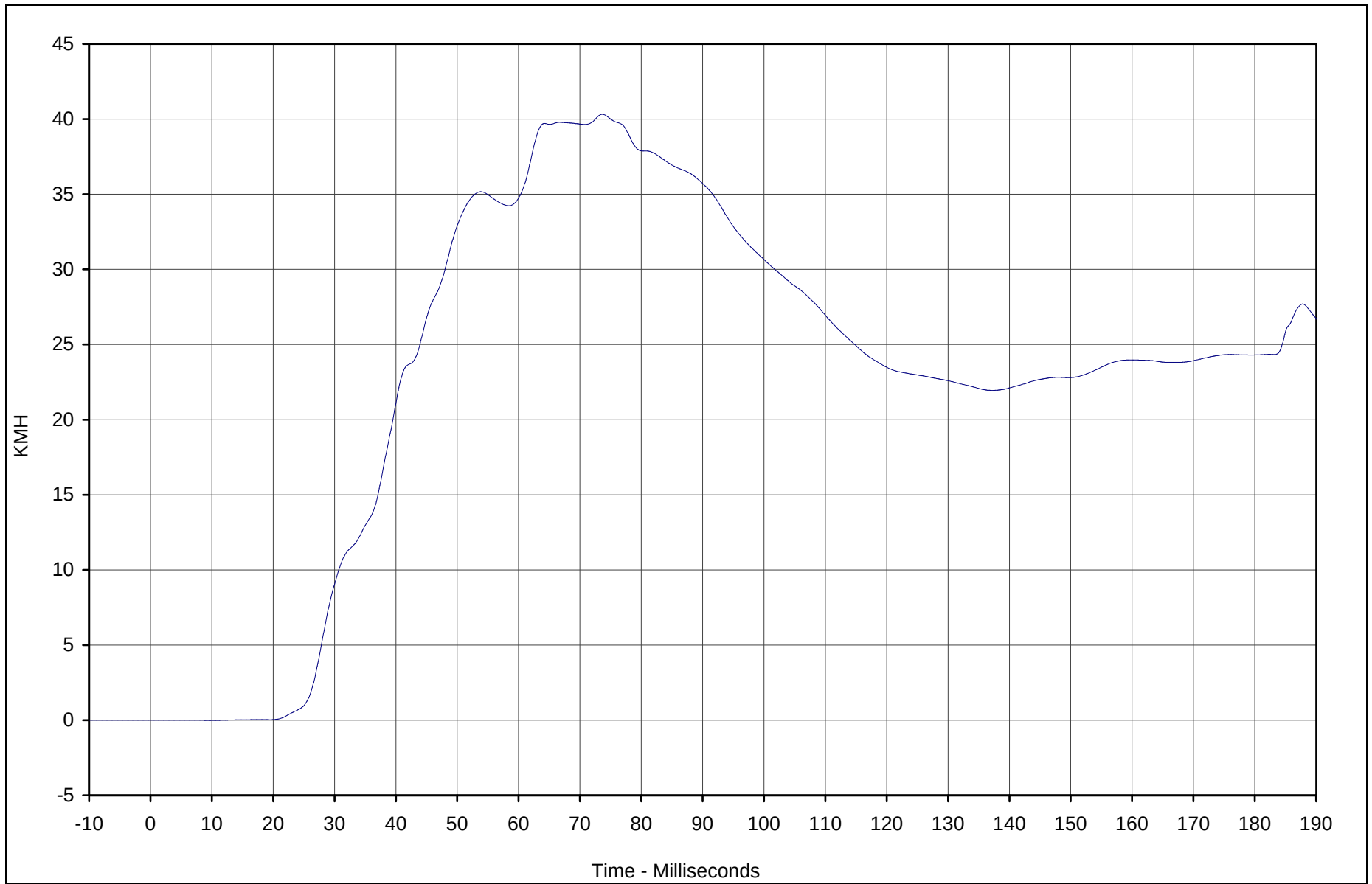


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Lower Rib Primary Y Vel.	014	IN1	KMH	40.3	73.7	0.0	10.0	180

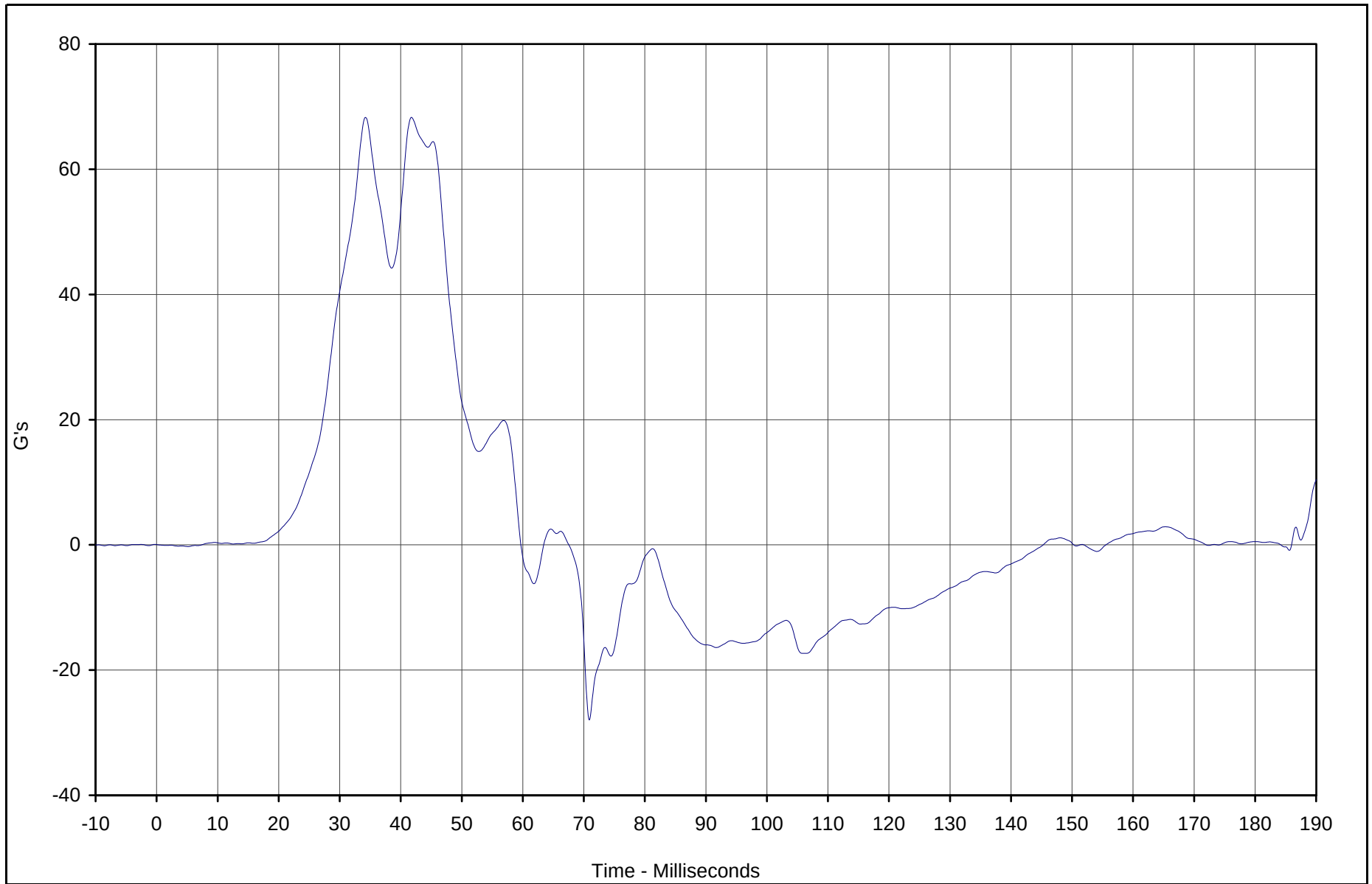


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Lower Spine Primary Y	015	FIL	G's	68.3	34.2	-28.0	70.9	180

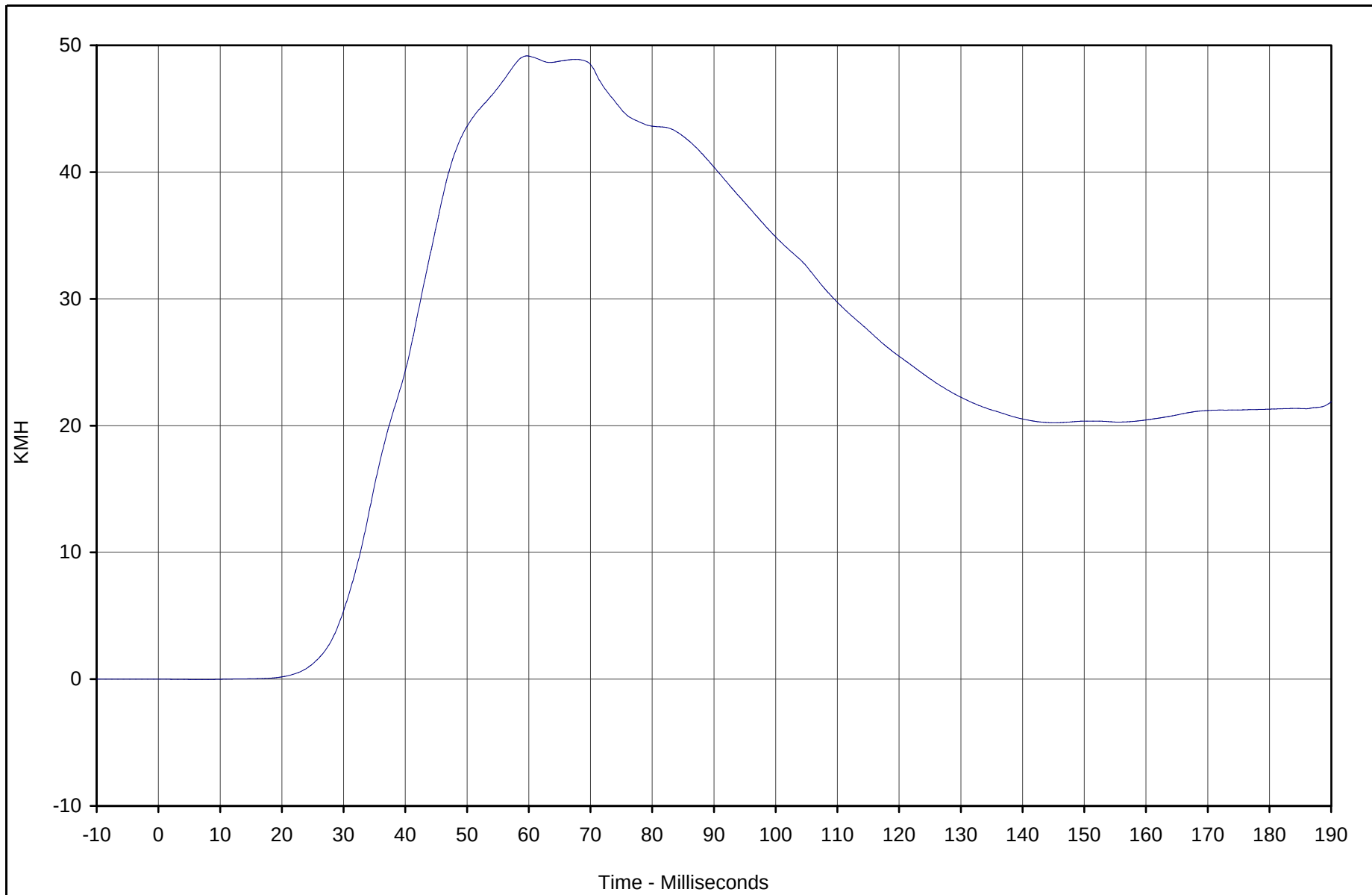


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Lower Spine Primary Y Vel.	015	IN1	KMH	49.2	59.7	0.0	7.4	180

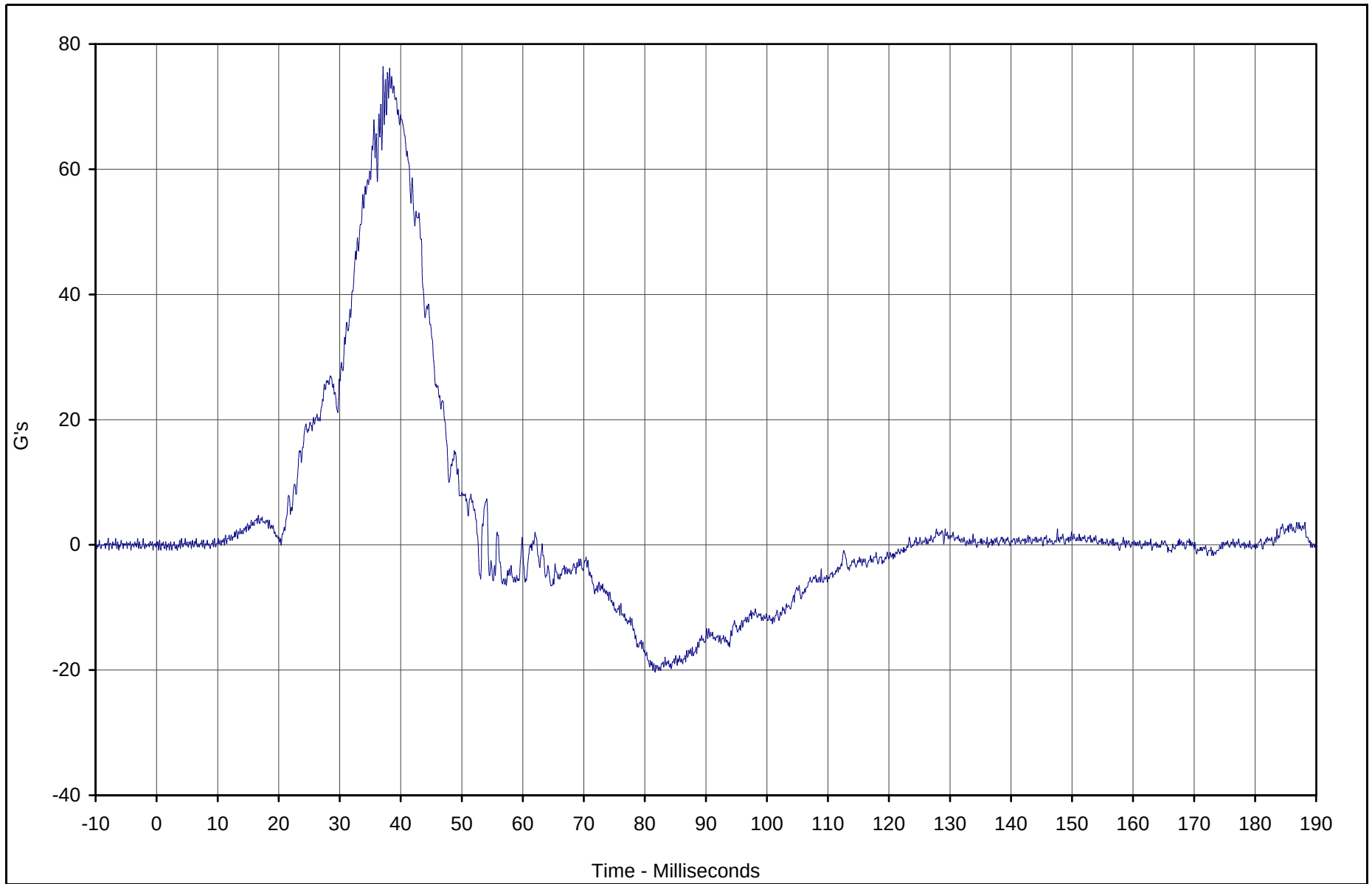


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Pelvis Primary Y	016	FIL	G's	76.2	37.1	-20.3	81.7	1000

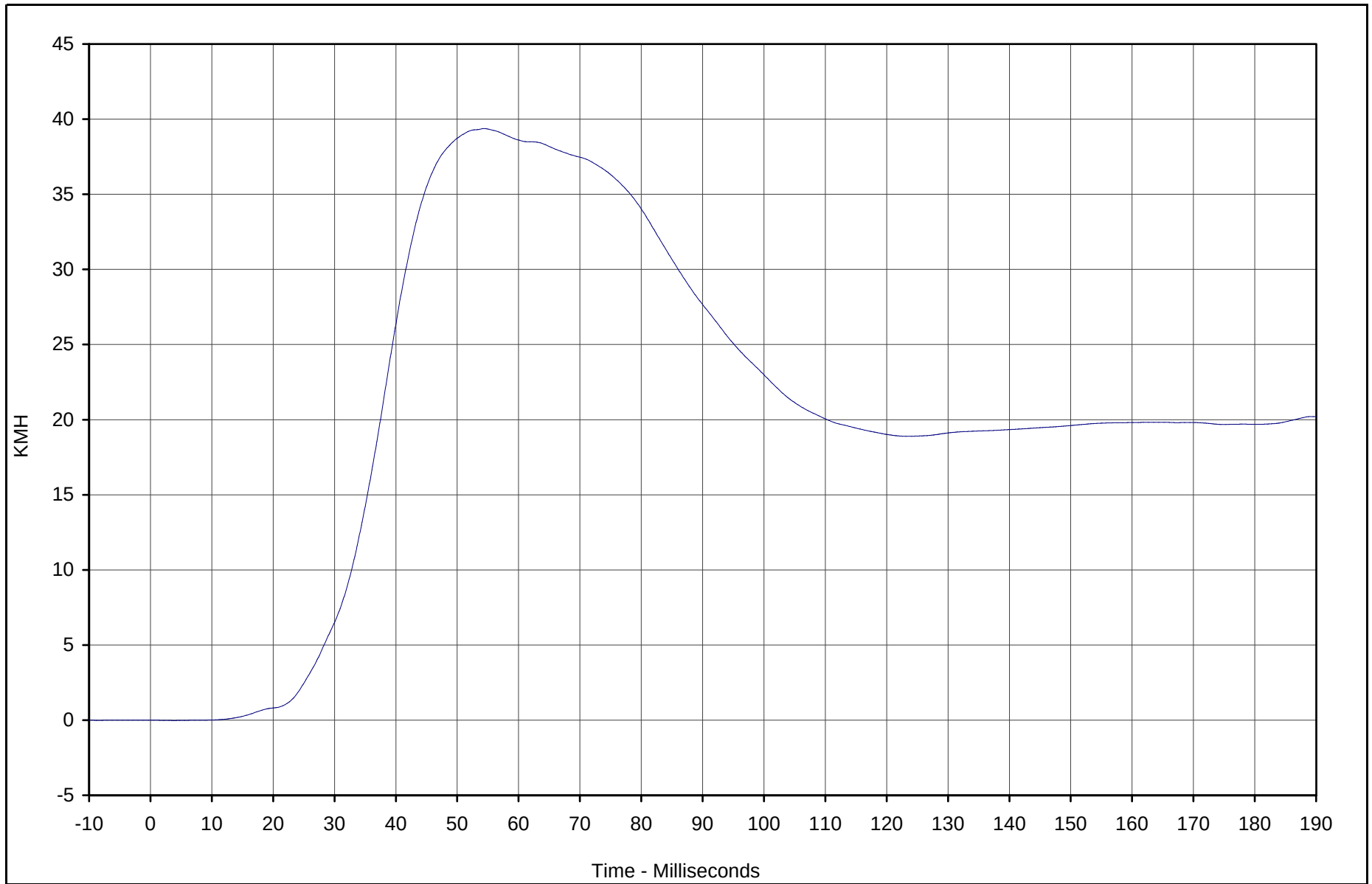


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Pelvis Primary Y Vel.	016	IN1	KMH	39.4	54.4	0.0	3.8	180

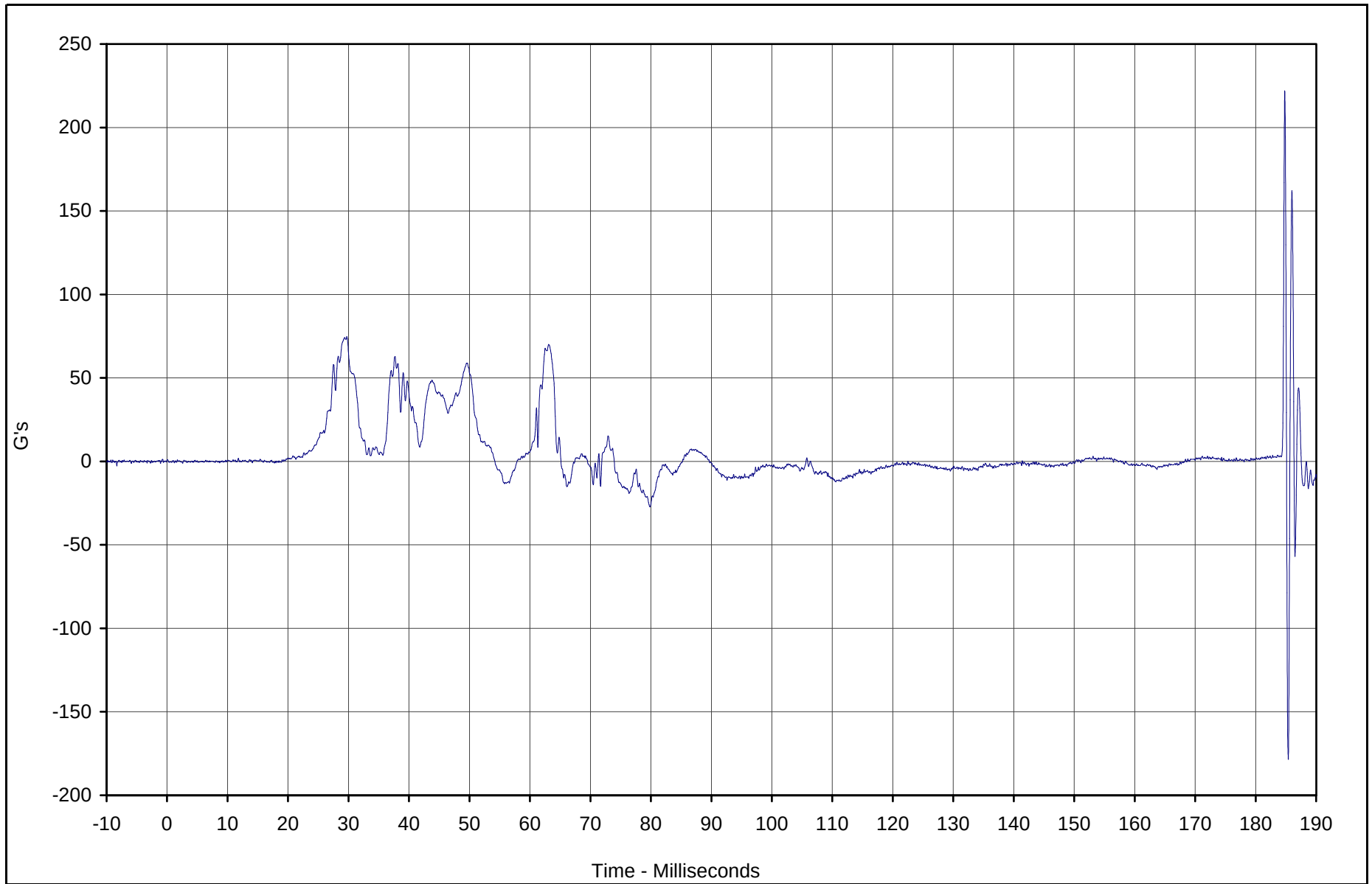


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Upper Rib Redundant Y	017	FIL	G's	221.4	184.8	-178.2	185.4	1000

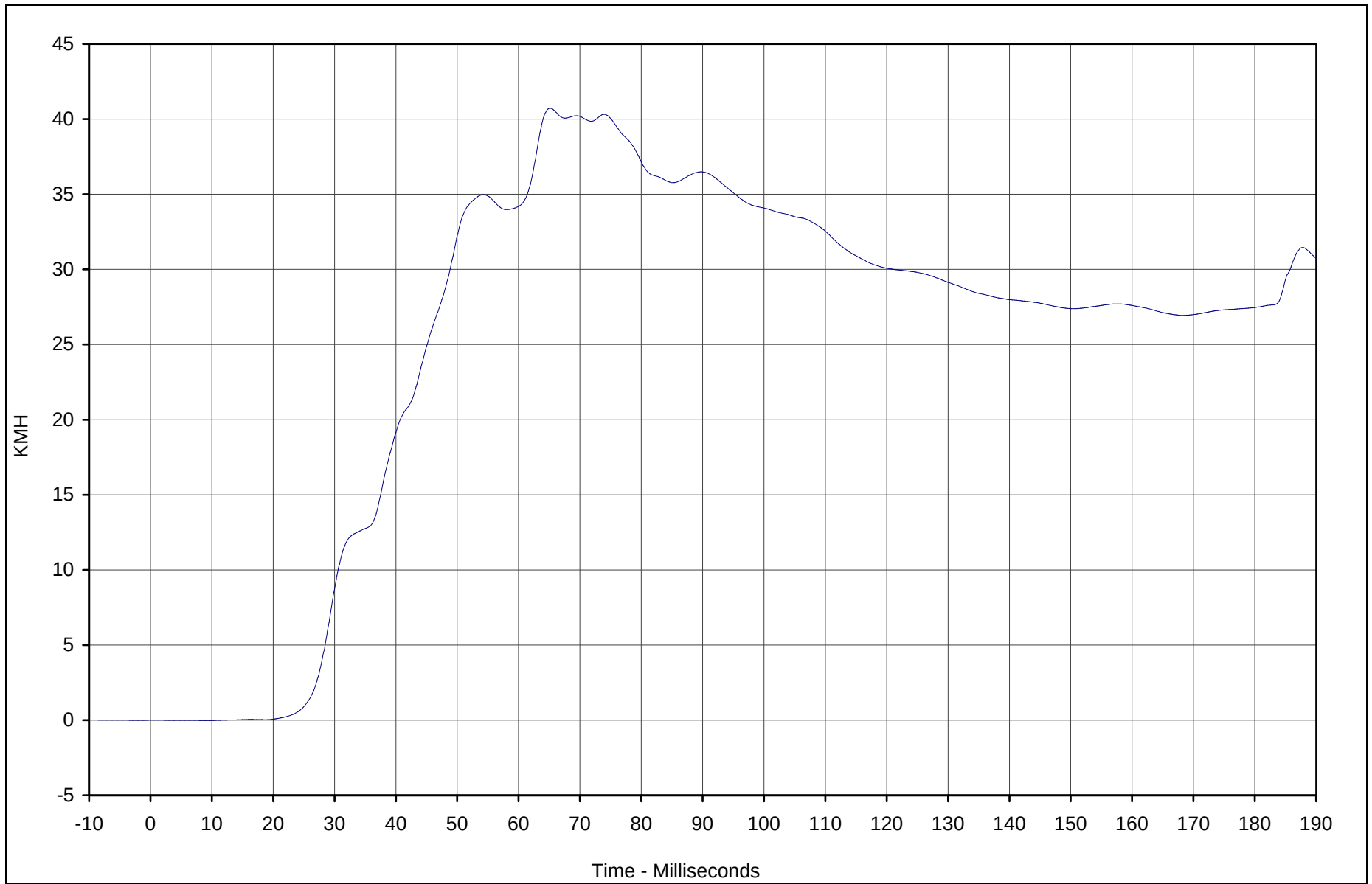


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Upper Rib Redundant Y Vel.	017	IN1	KMH	40.7	65.1	0.0	9.3	180

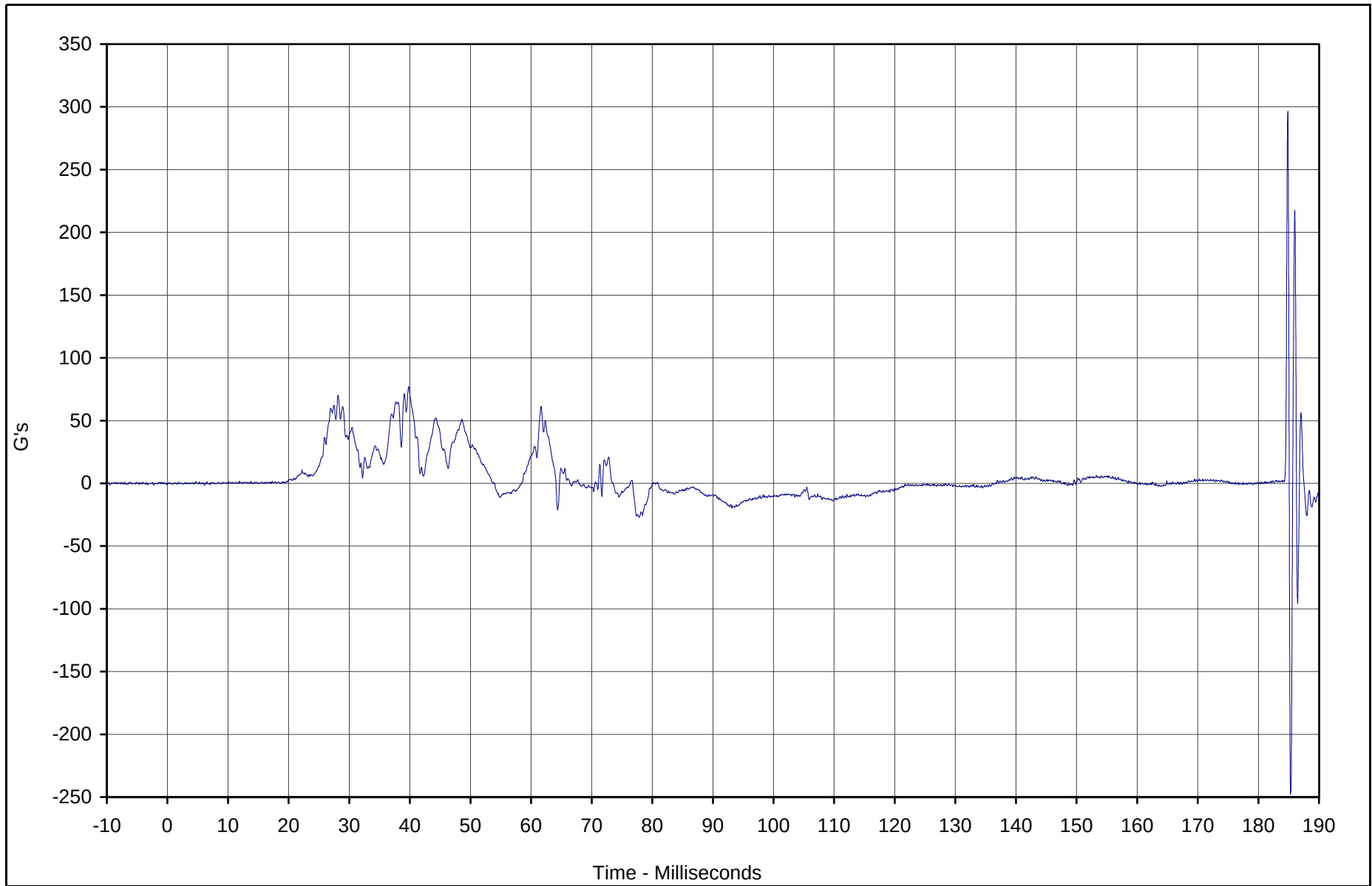


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Lower Rib Redundant Y	018	FIL	G's	295.2	184.9	-247.1	185.3	1000

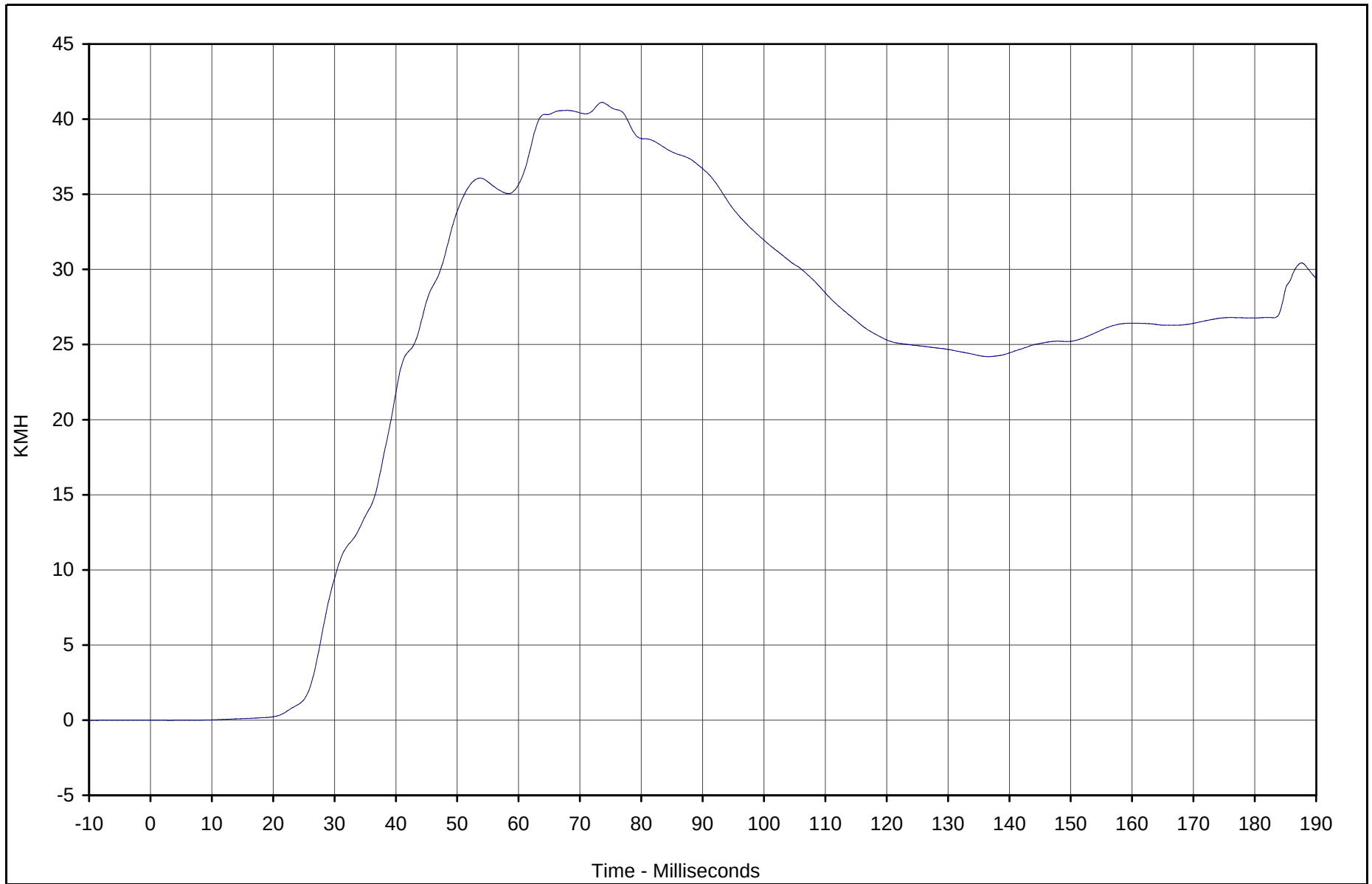


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Lower Rib Redundant Y Vel.	018	IN1	KMH	41.1	73.6	0.0	3.2	180

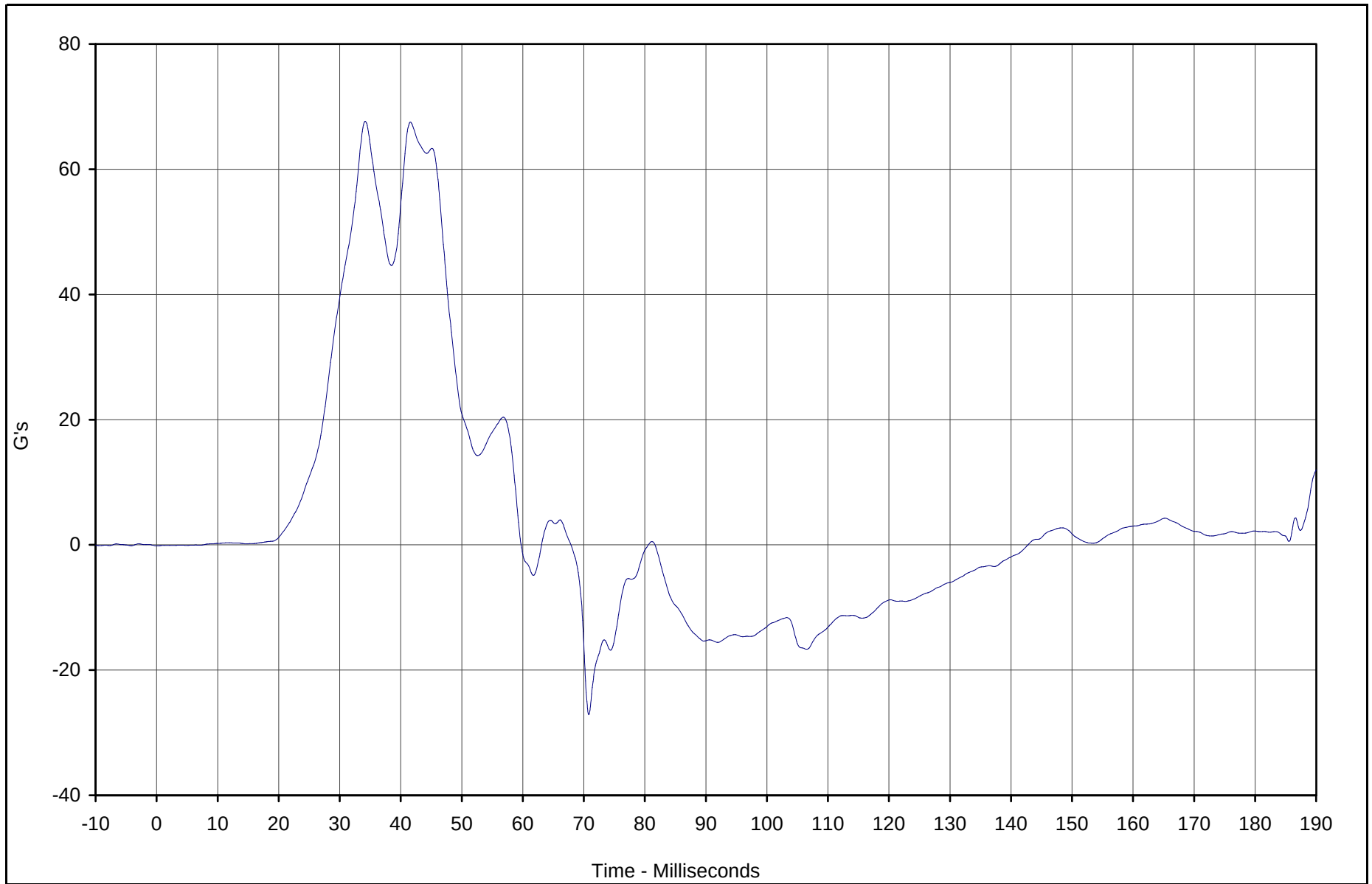


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Lower Spine Redundant Y	019	FIL	G's	67.7	34.2	-27.1	70.8	180

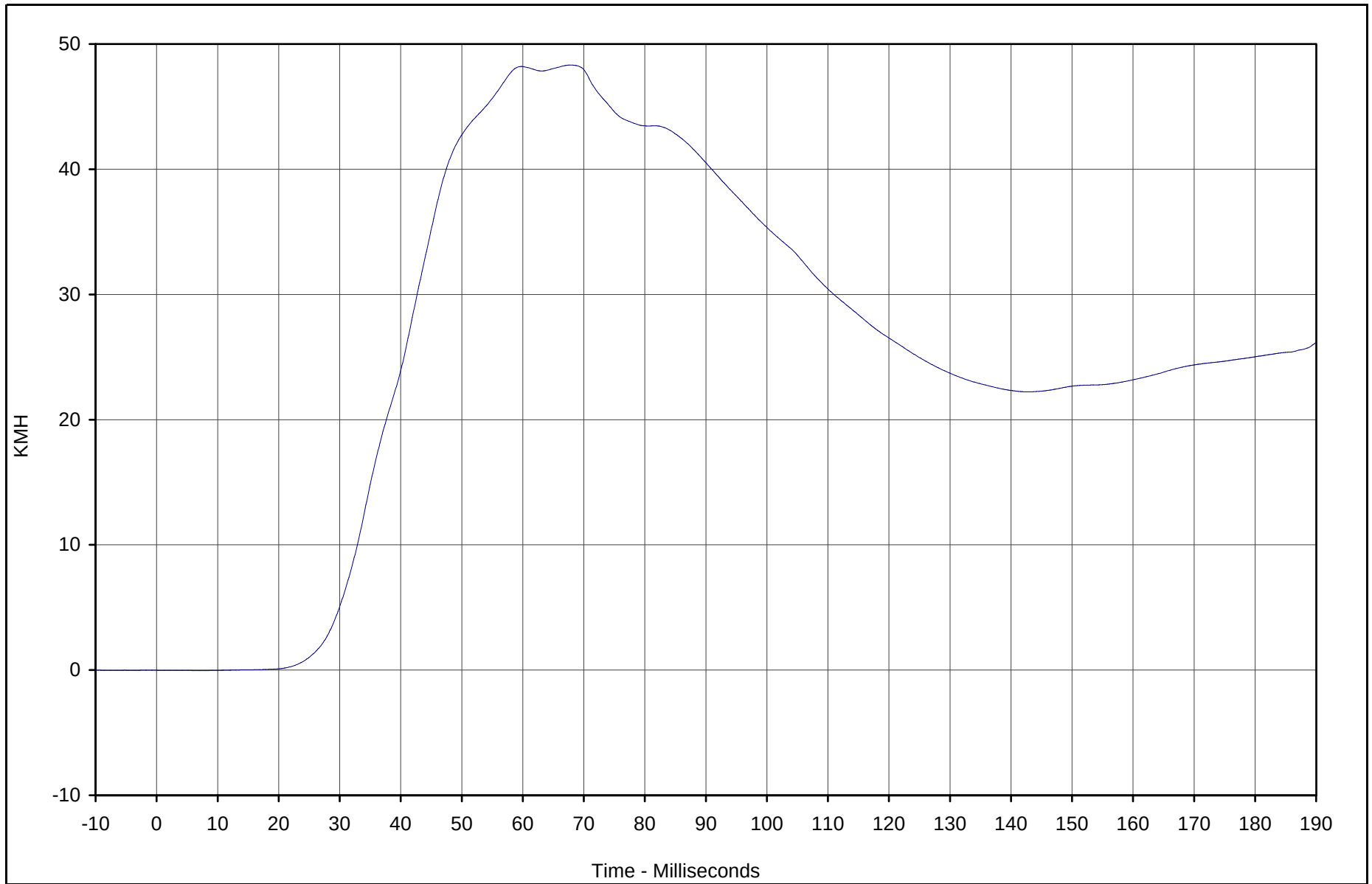


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Lower Spine Redundant Y Vel.	019	IN1	KMH	48.3	67.9	0.0	7.7	180

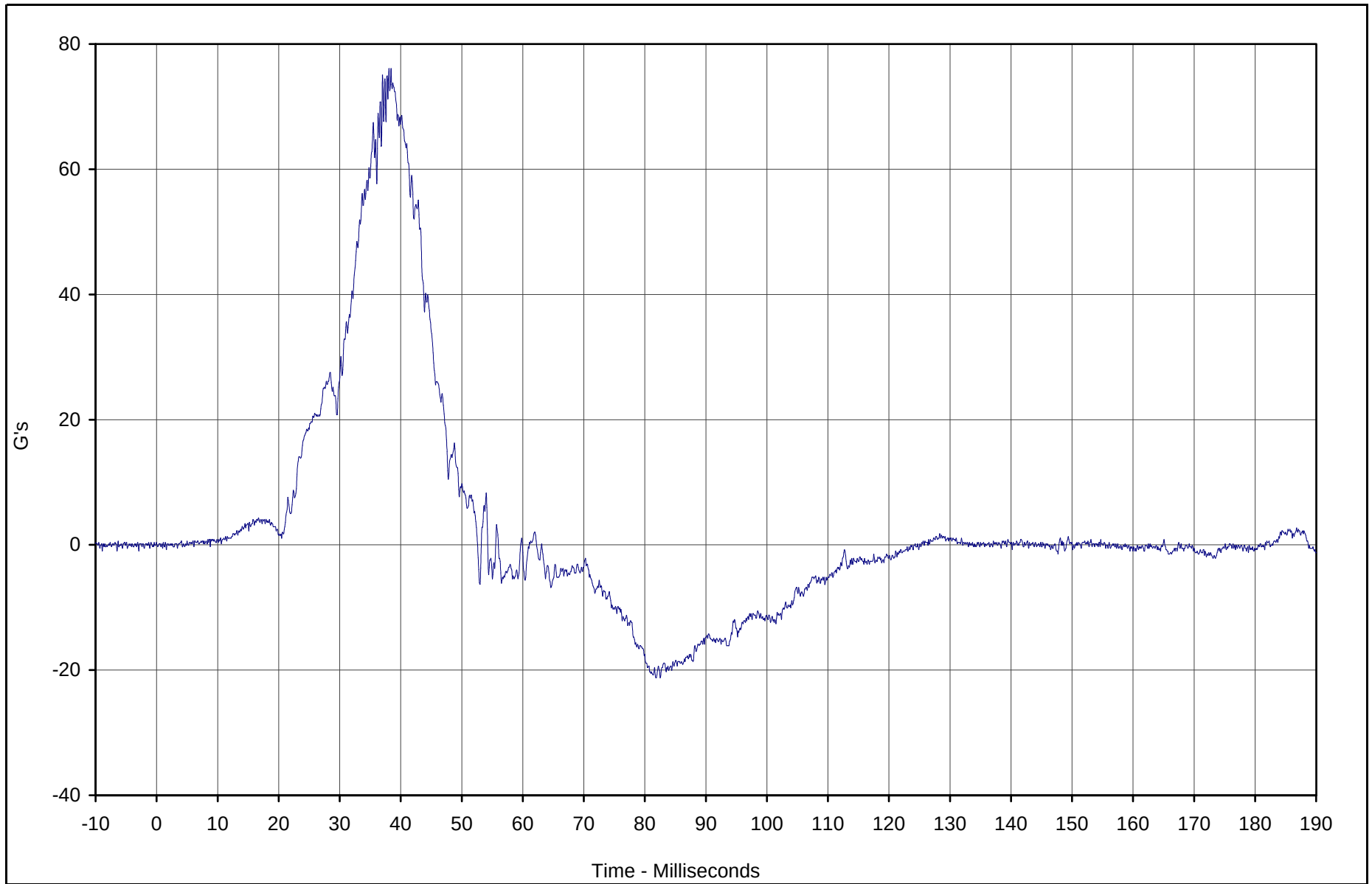


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Pelvis Redundant Y	020	FIL	G's	76.1	38.4	-21.2	81.8	1000

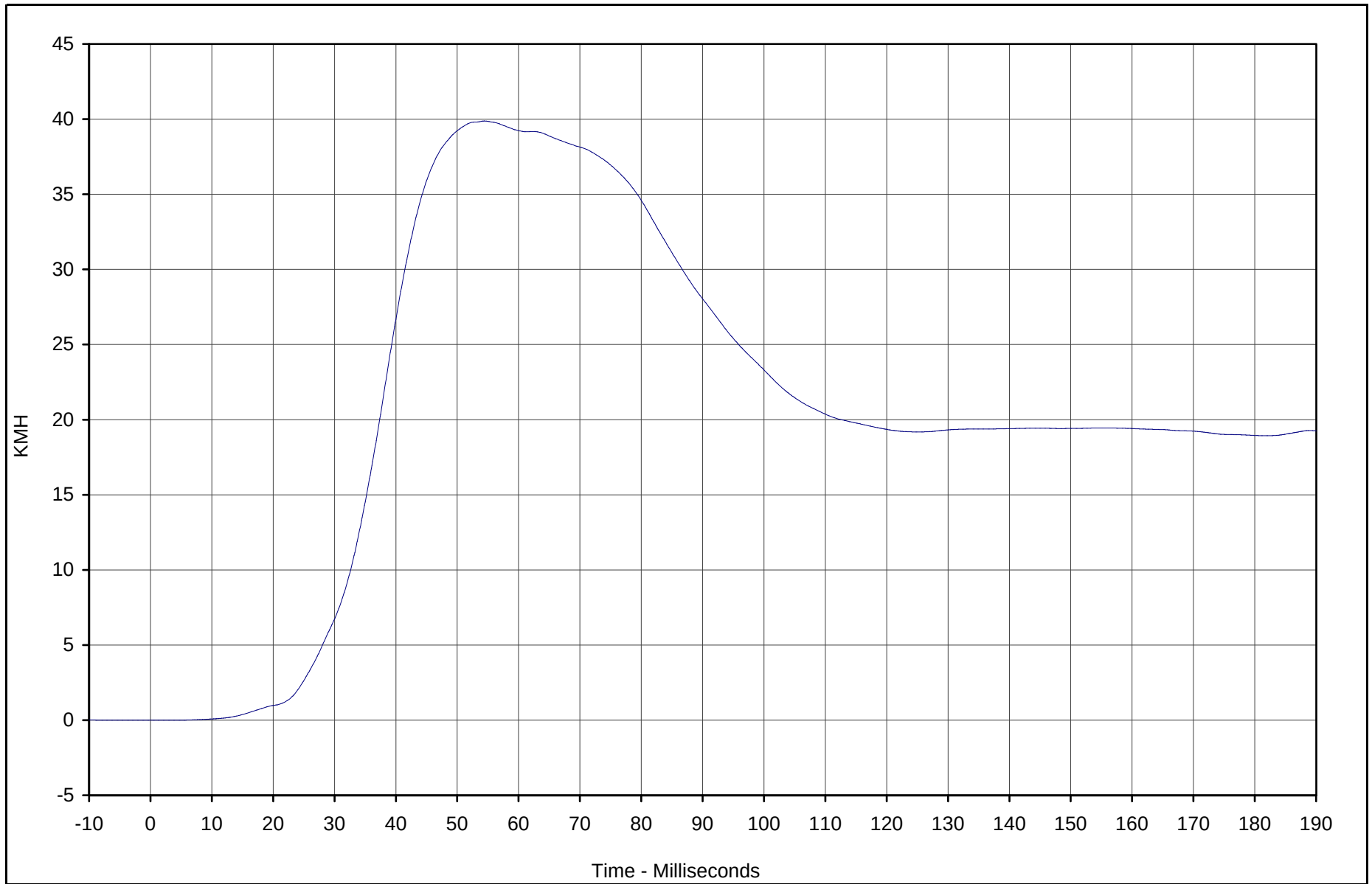


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Pelvis Redundant Y Vel.	020	IN1	KMH	39.9	54.4	0.0	3.1	180

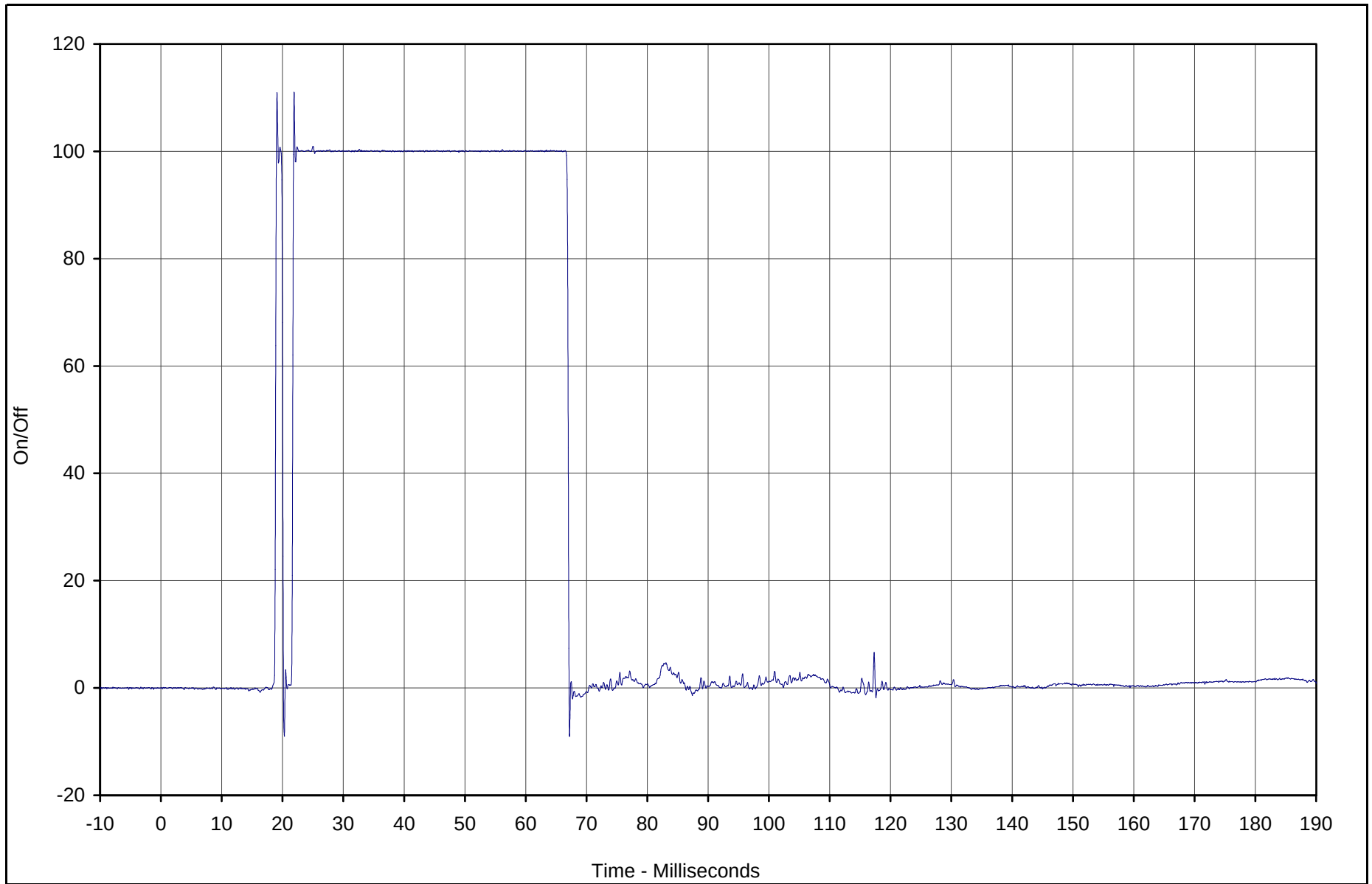


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Cross %	Time	SAE Class
Driver Thorax Contact	021	FIL	On/Off	110.9	21.9	50.0	18.9	1000

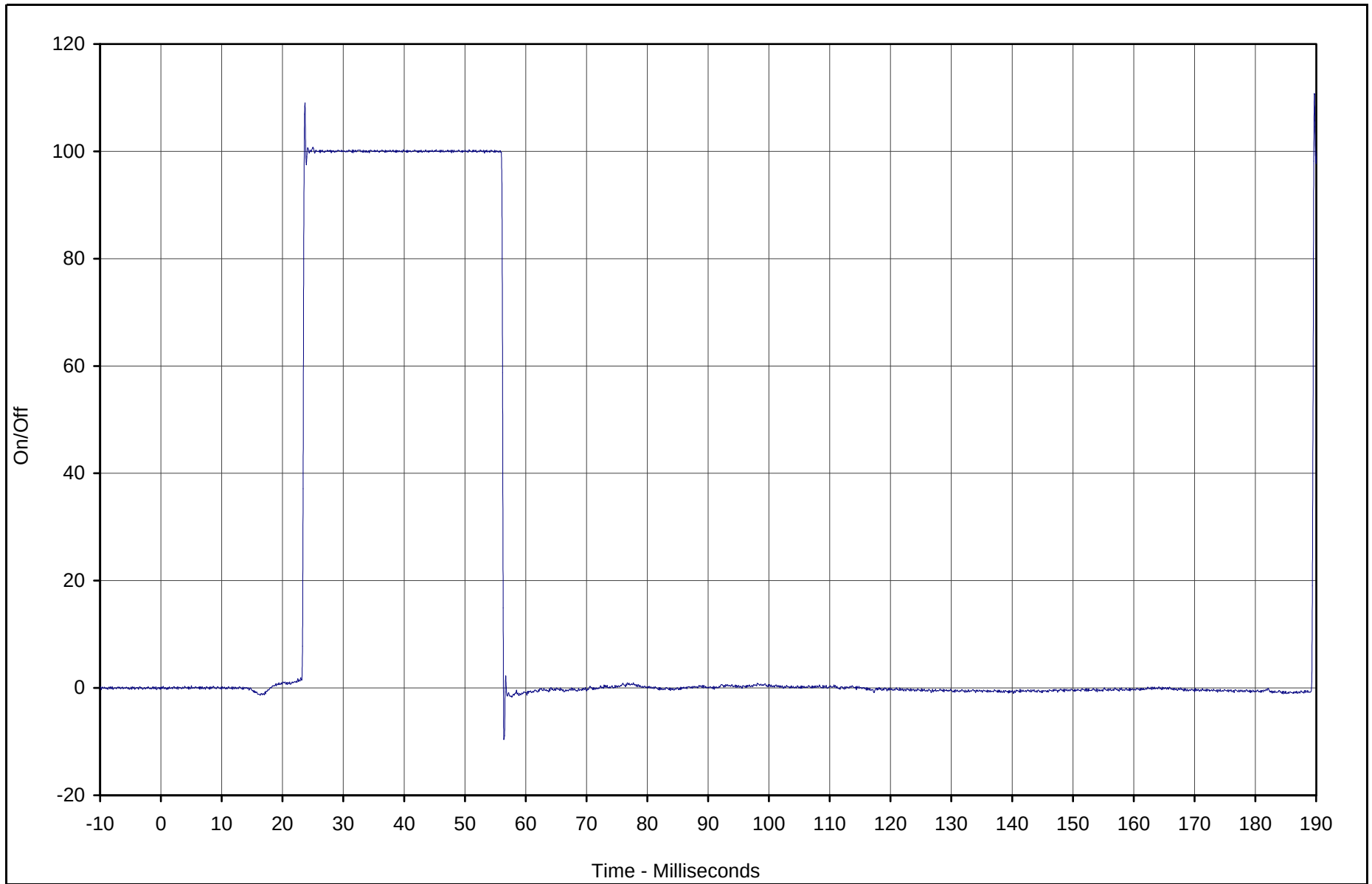


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Cross %	Time	SAE Class
Driver Pelvis Contact	022	FIL	On/Off	110.6	189.7	50.0	23.5	1000

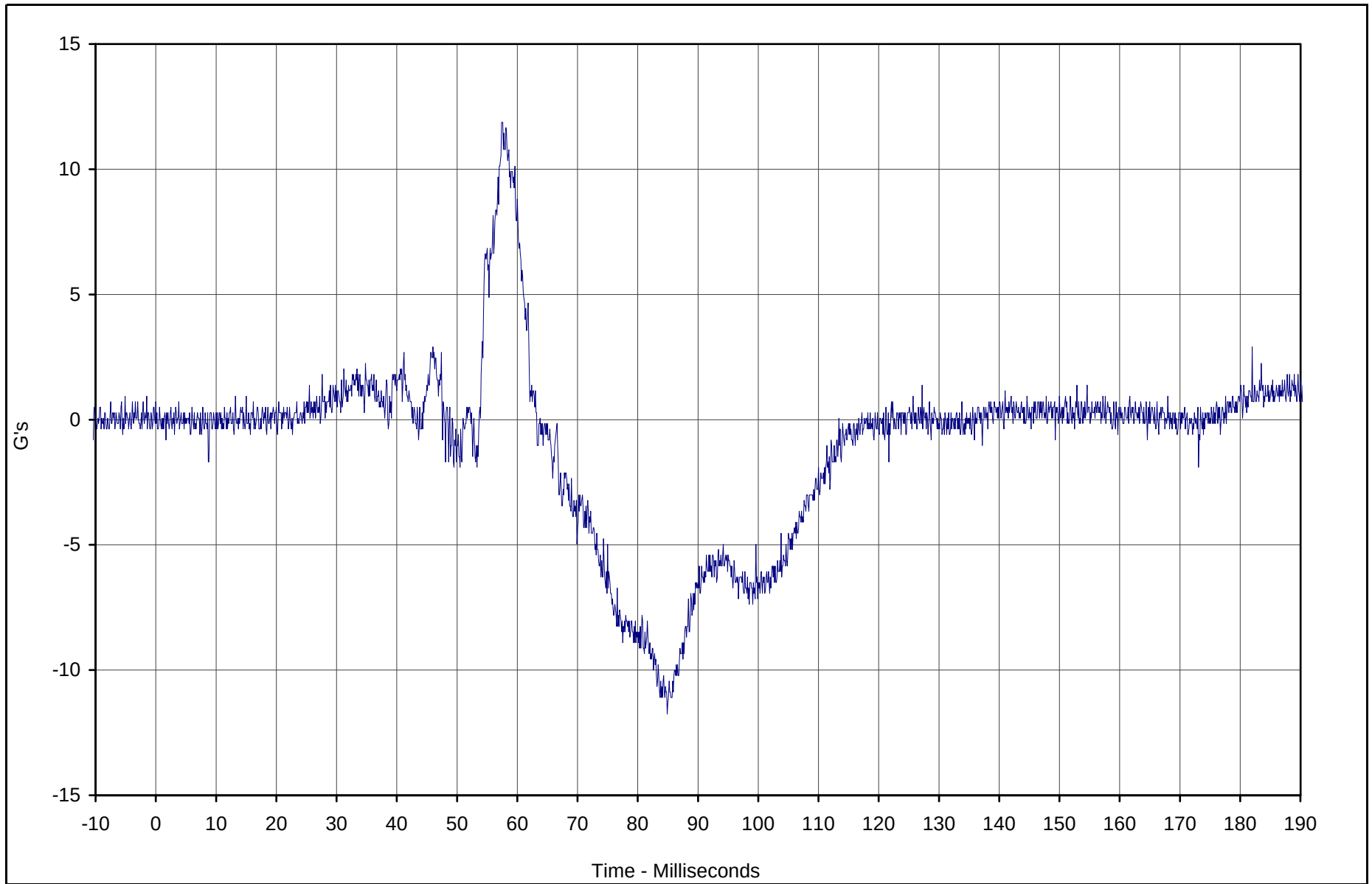


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Head X	023	FIL	G's	11.9	57.4	-11.8	84.9	1000

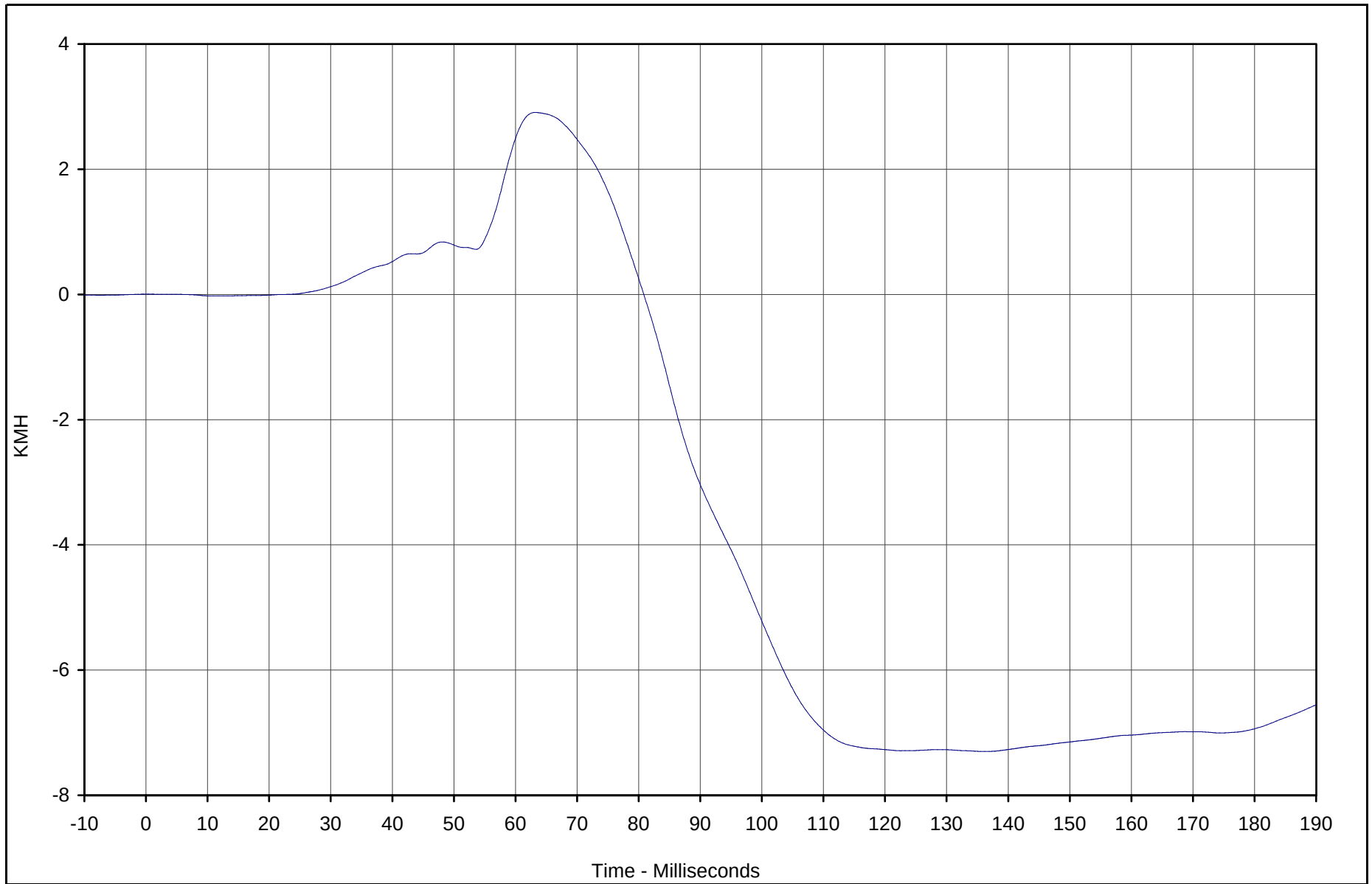


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Head X Velocity	023	IN1	KMH	2.9	63.2	-7.3	136.1	180

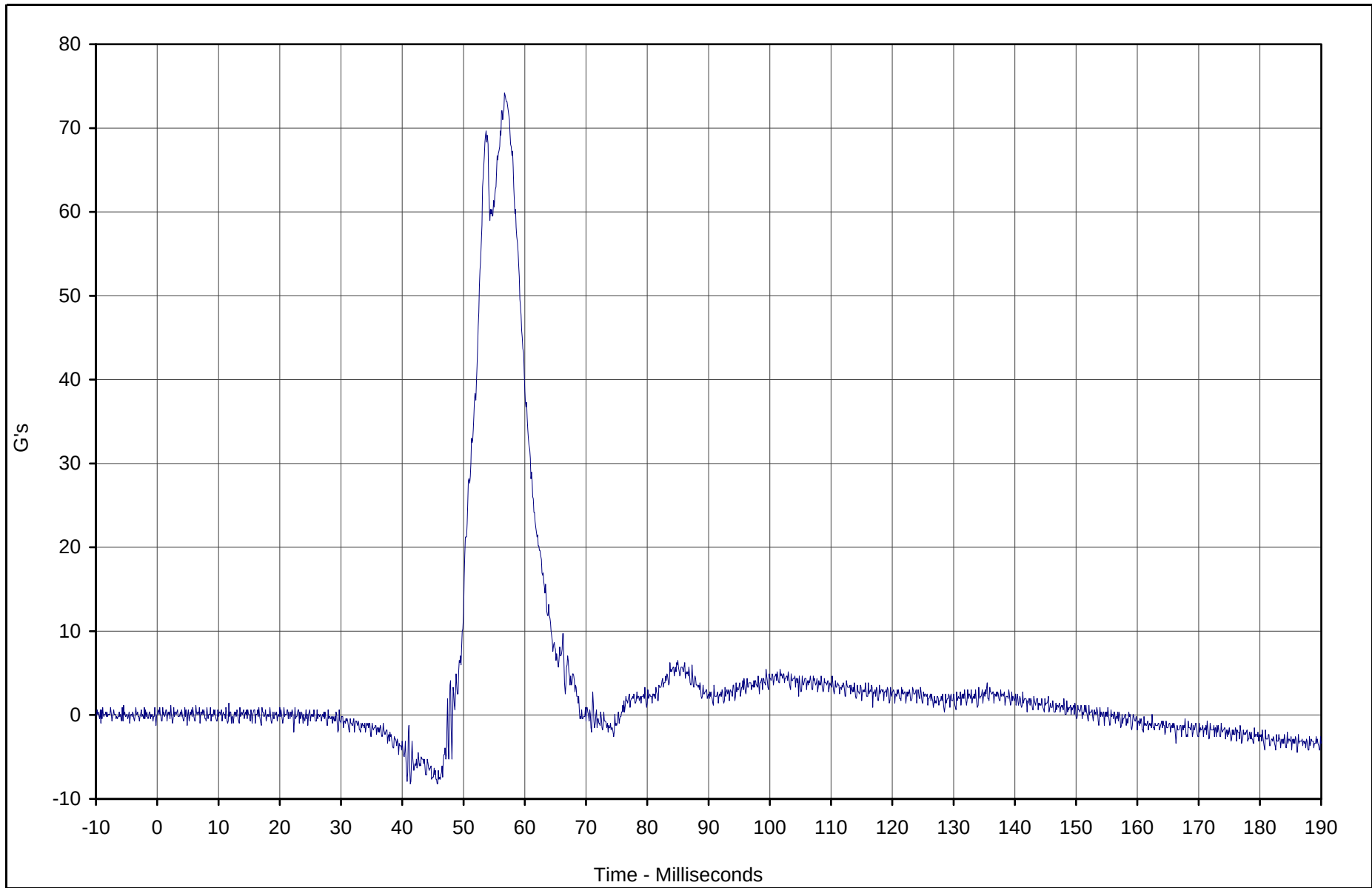


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Head Y	024	FIL	G's	74.2	56.7	-8.2	41.3	1000

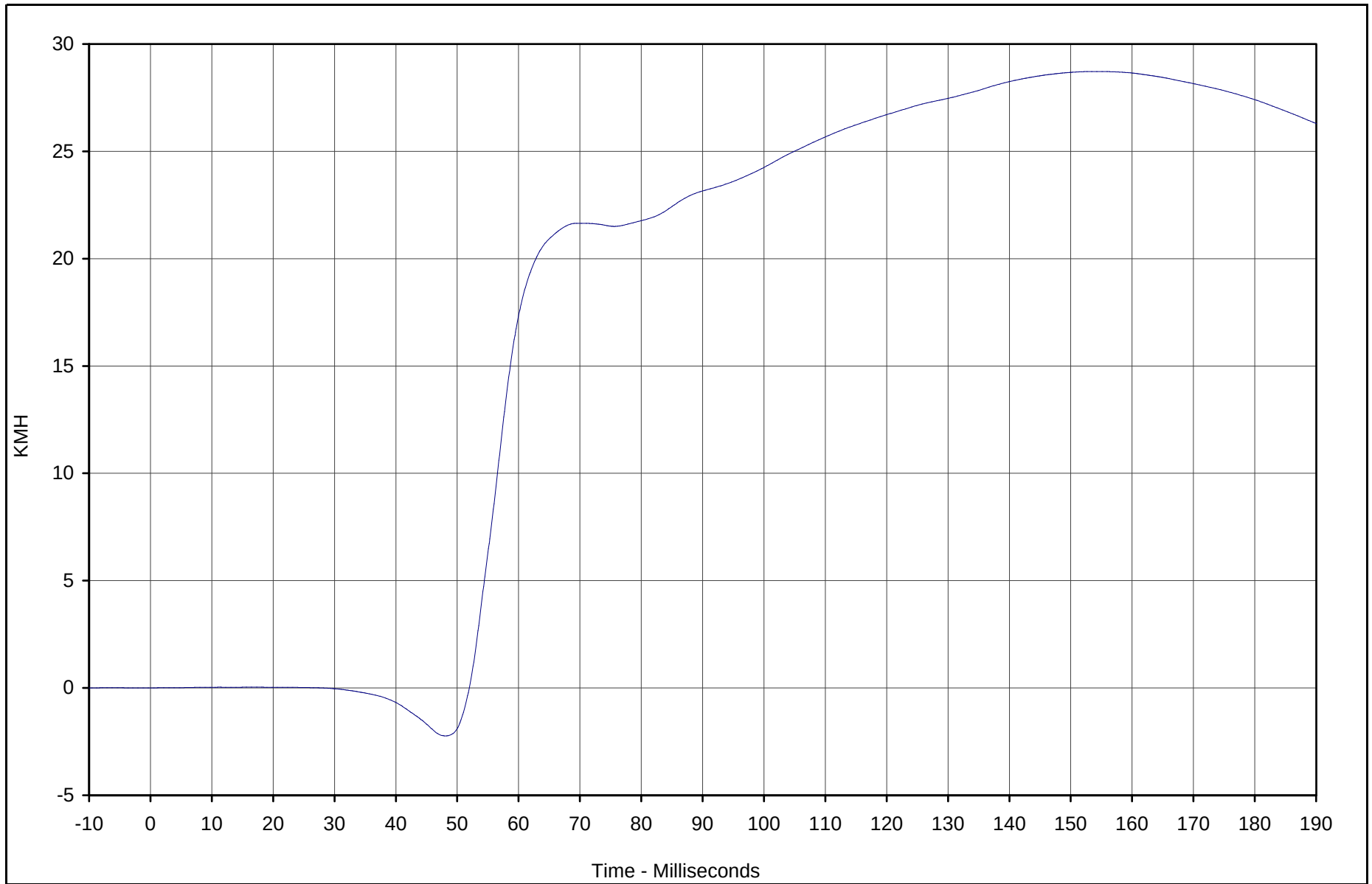


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Head Y Velocity	024	IN1	KMH	28.7	153.8	-2.2	48.1	180

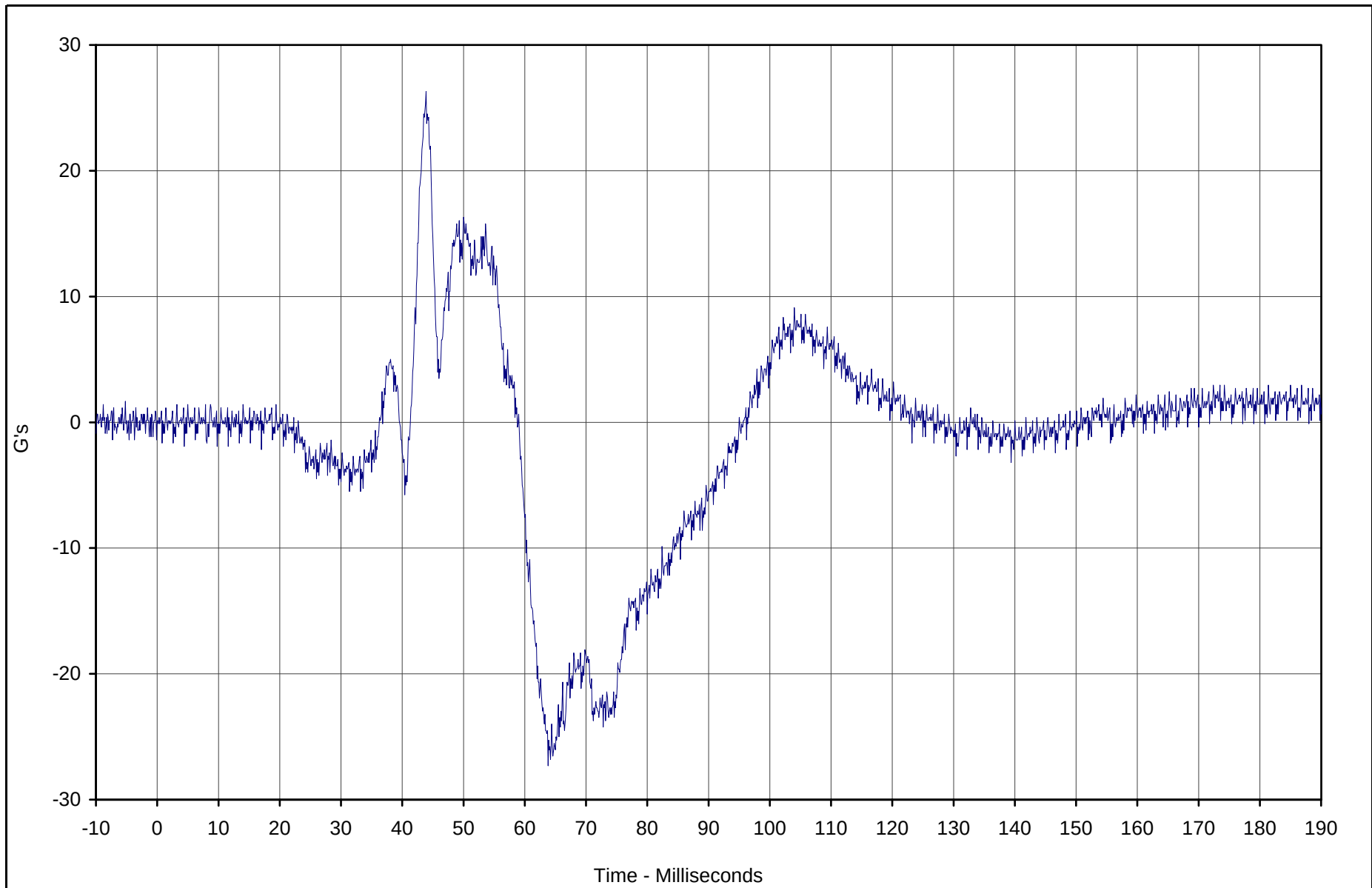


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Head Z	025	FIL	G's	26.3	43.9	-27.3	63.8	1000

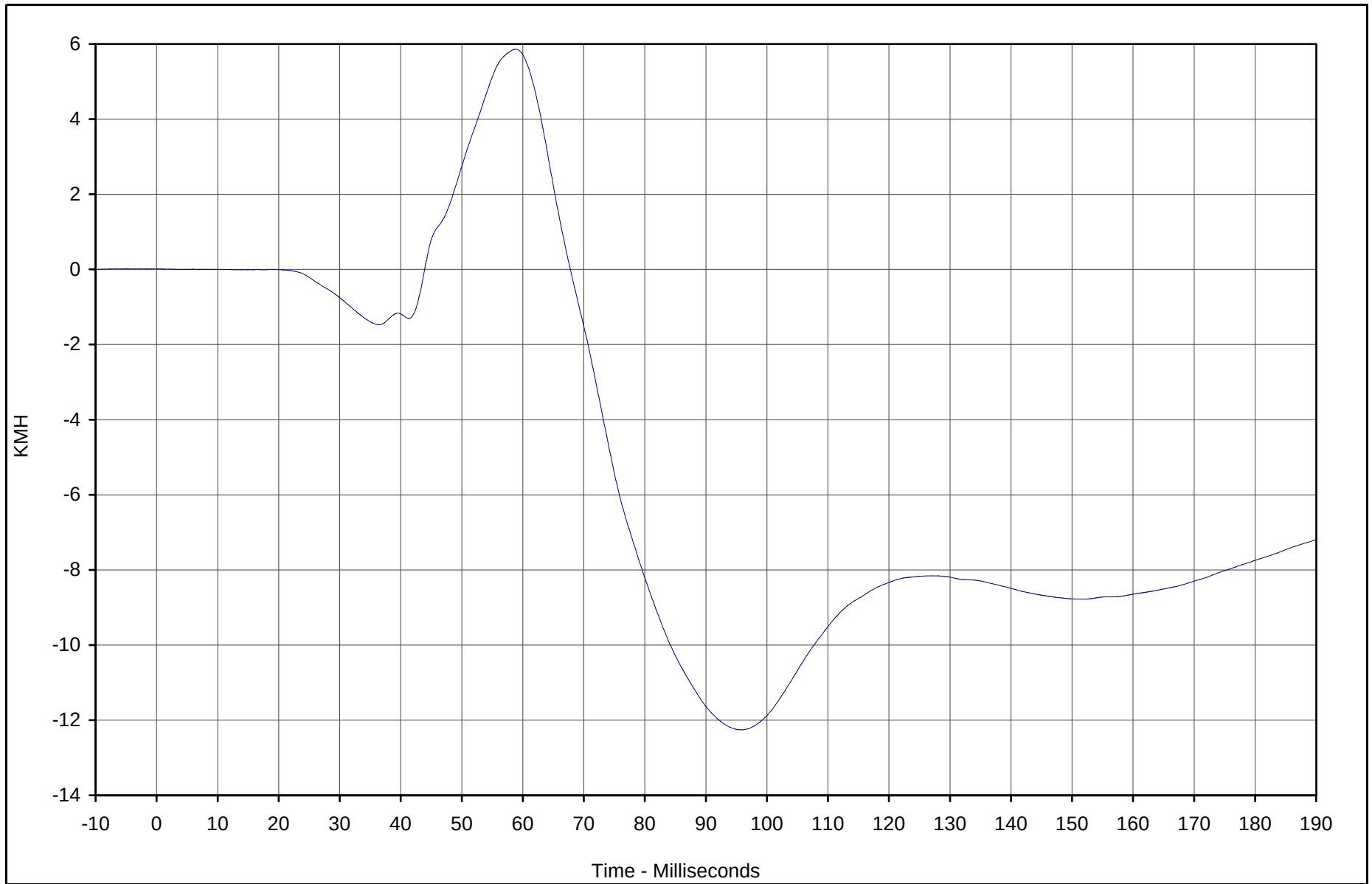


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Head Z Velocity	025	IN1	KMH	5.9	58.8	-12.3	95.8	180

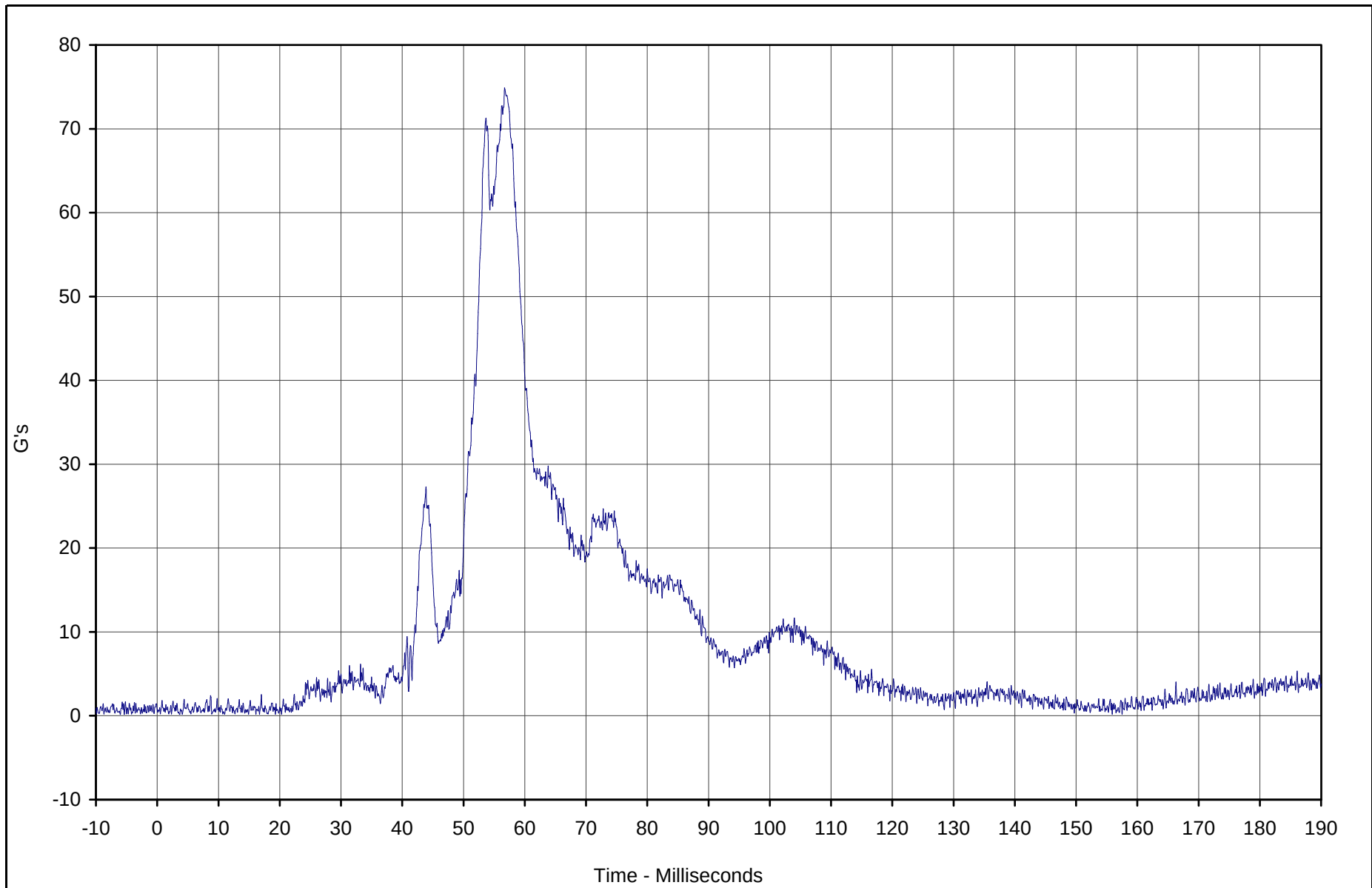


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Head Resultant	023	RES	G's	74.9	56.7	0.2	11.0	1000

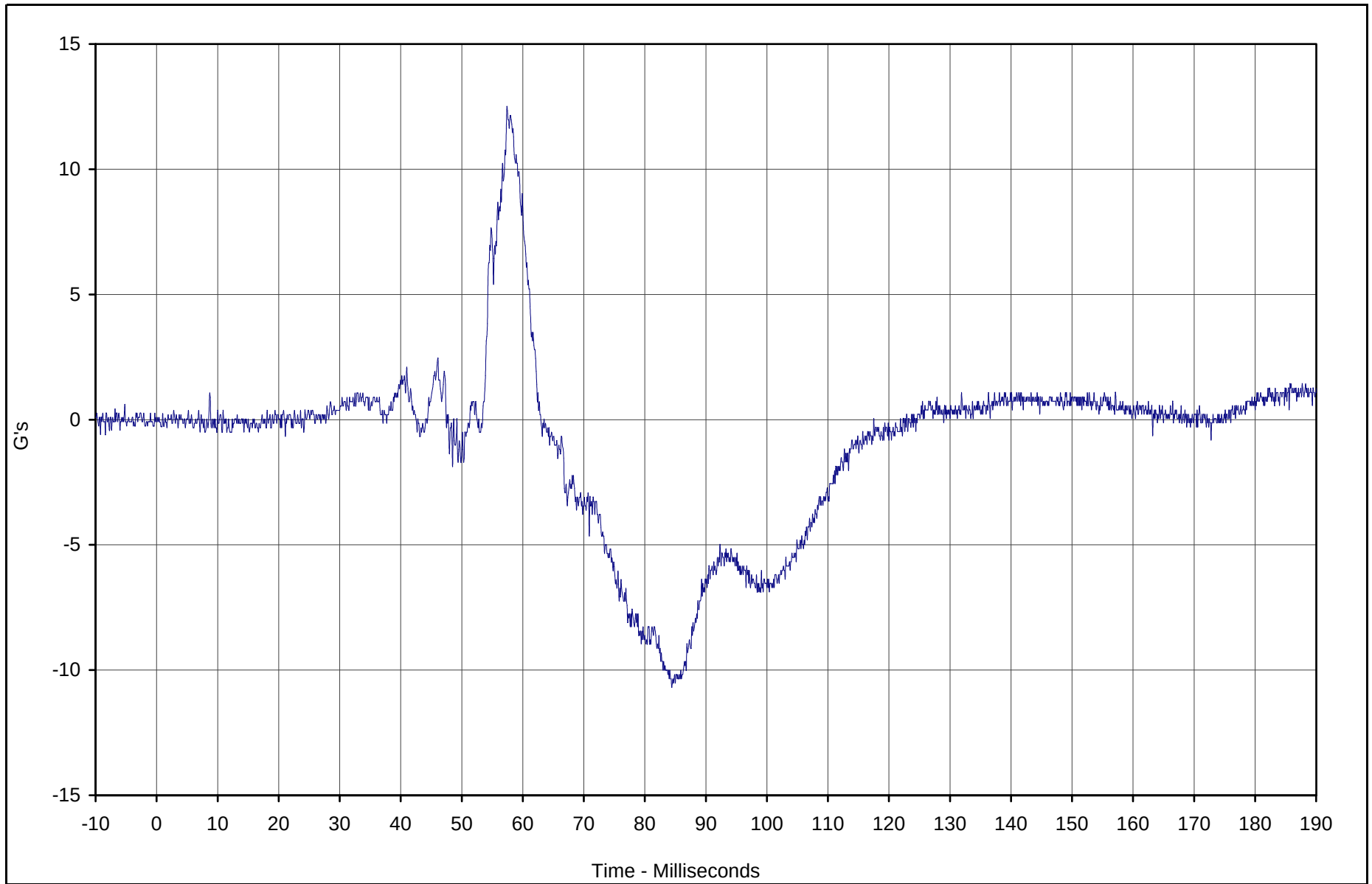


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Head X Redundant	026	FIL	G's	12.5	57.4	-10.7	84.4	1000

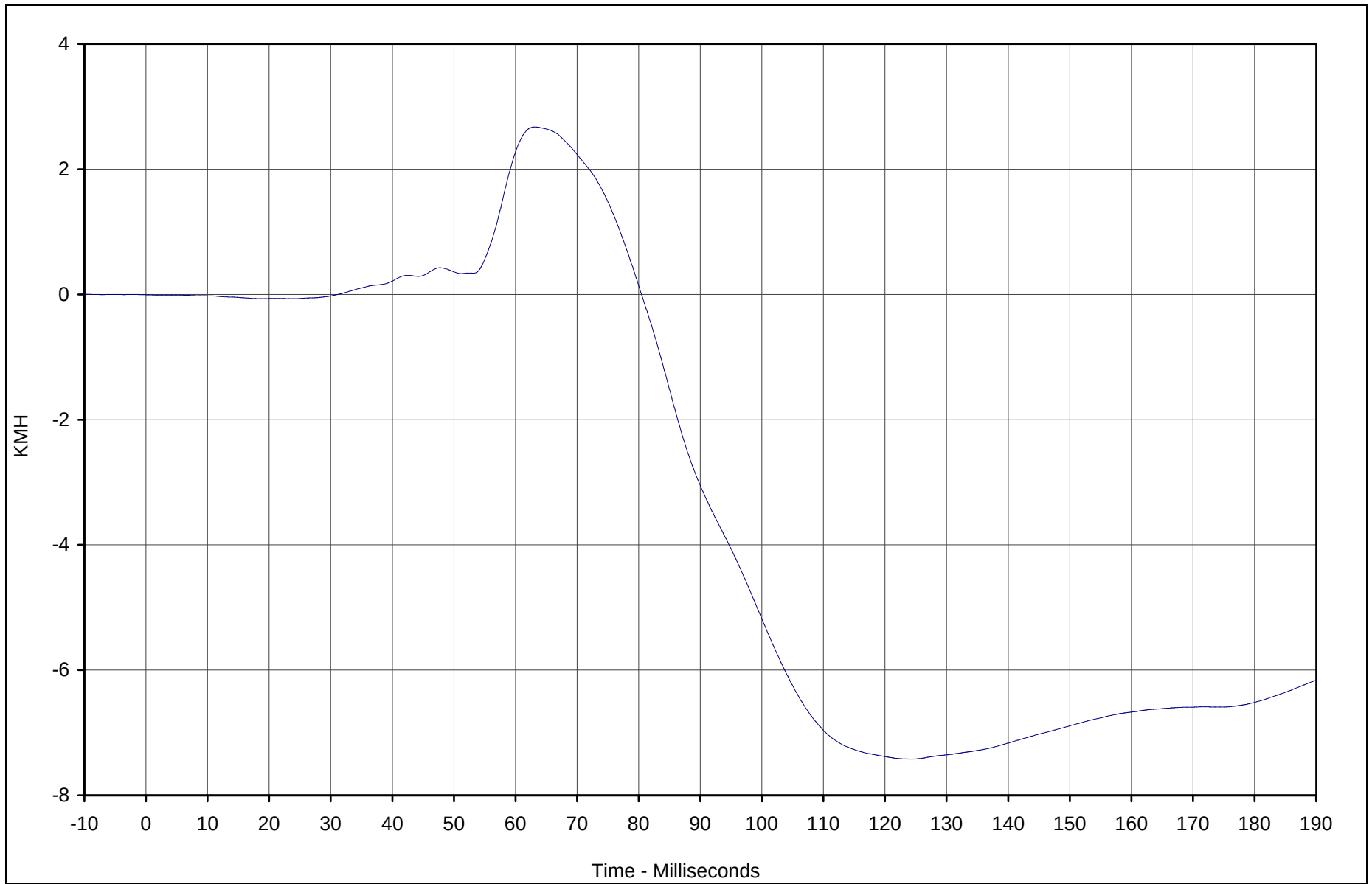


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Head X Redundant Velocity	026	IN1	KMH	2.7	63.1	-7.4	124.3	180

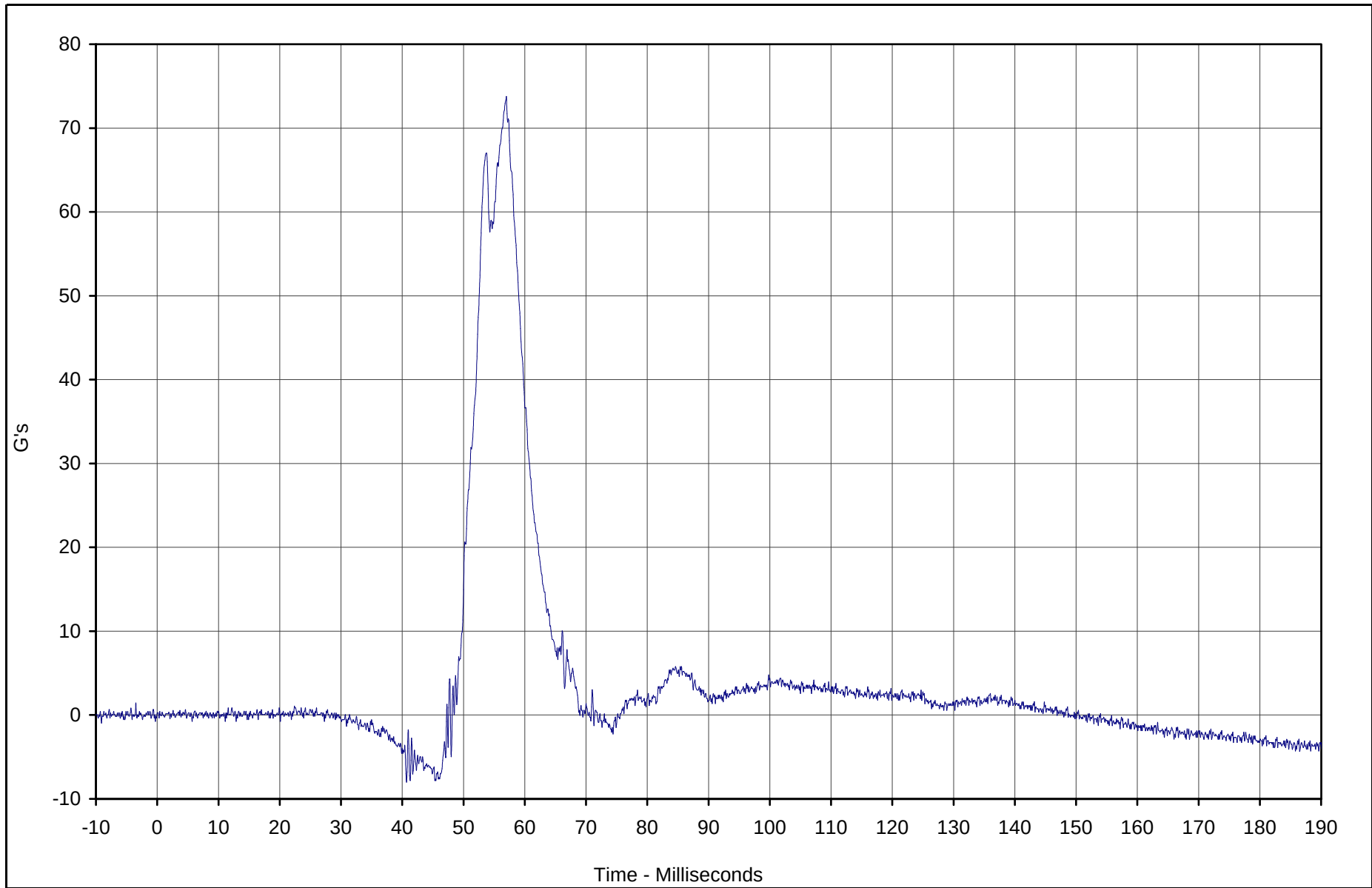


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Head Y Redundant	027	FIL	G's	73.7	57.0	-8.0	40.7	1000

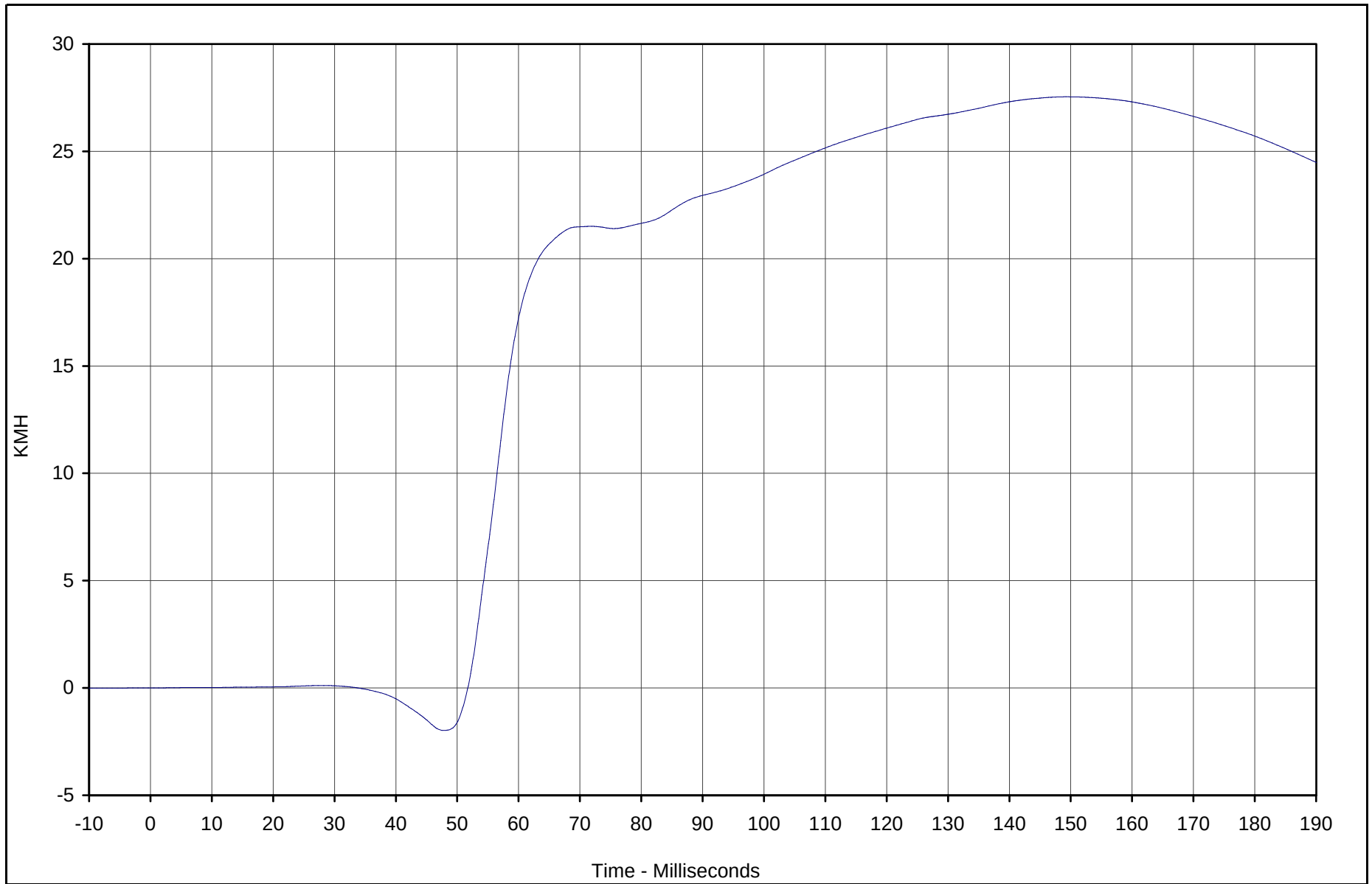


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Head Y Redundant Velocity	027	IN1	KMH	27.5	149.2	-2.0	47.9	180

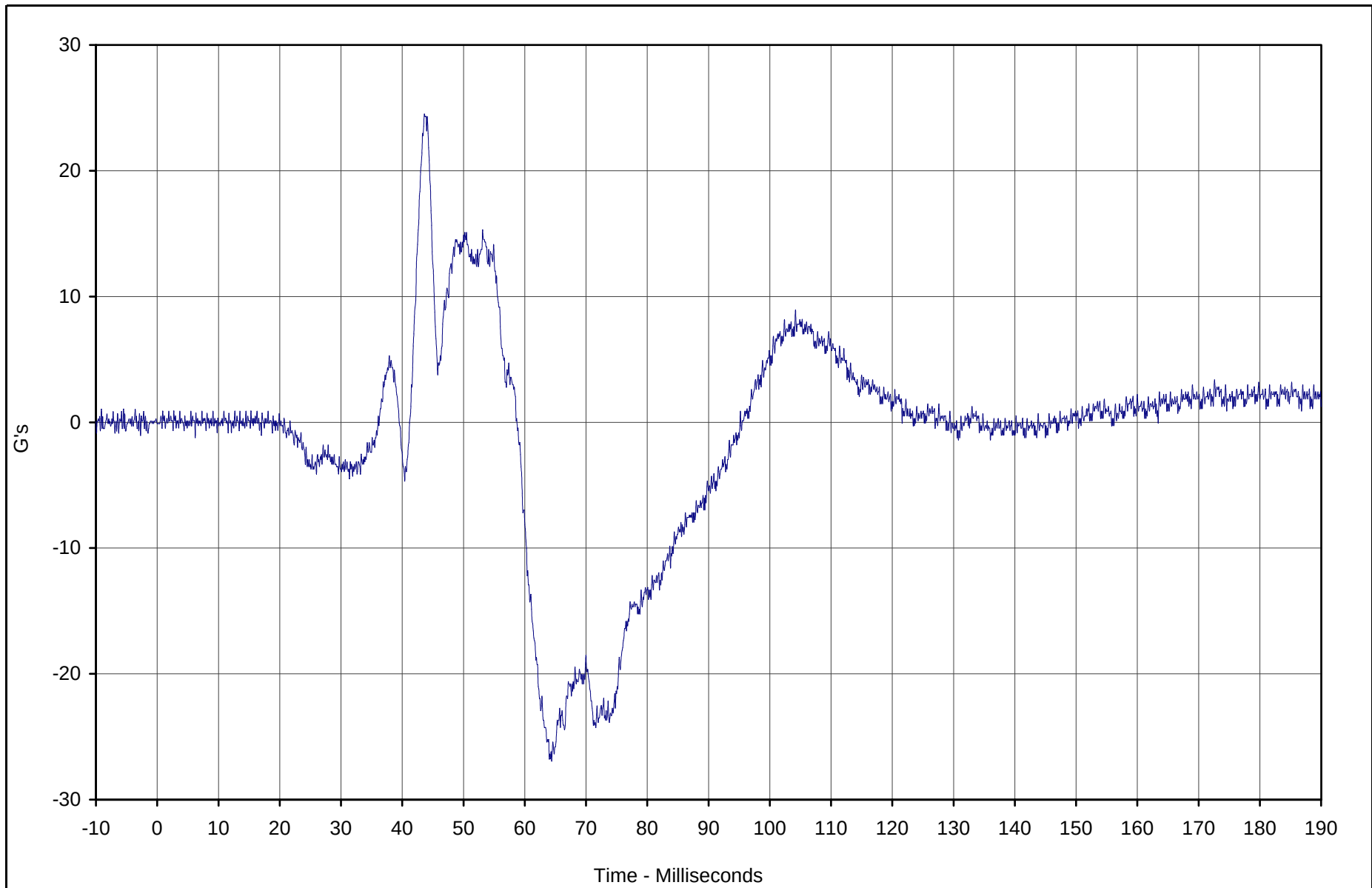


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Head Z Redundant	028	FIL	G's	24.5	43.6	-27.0	64.4	1000

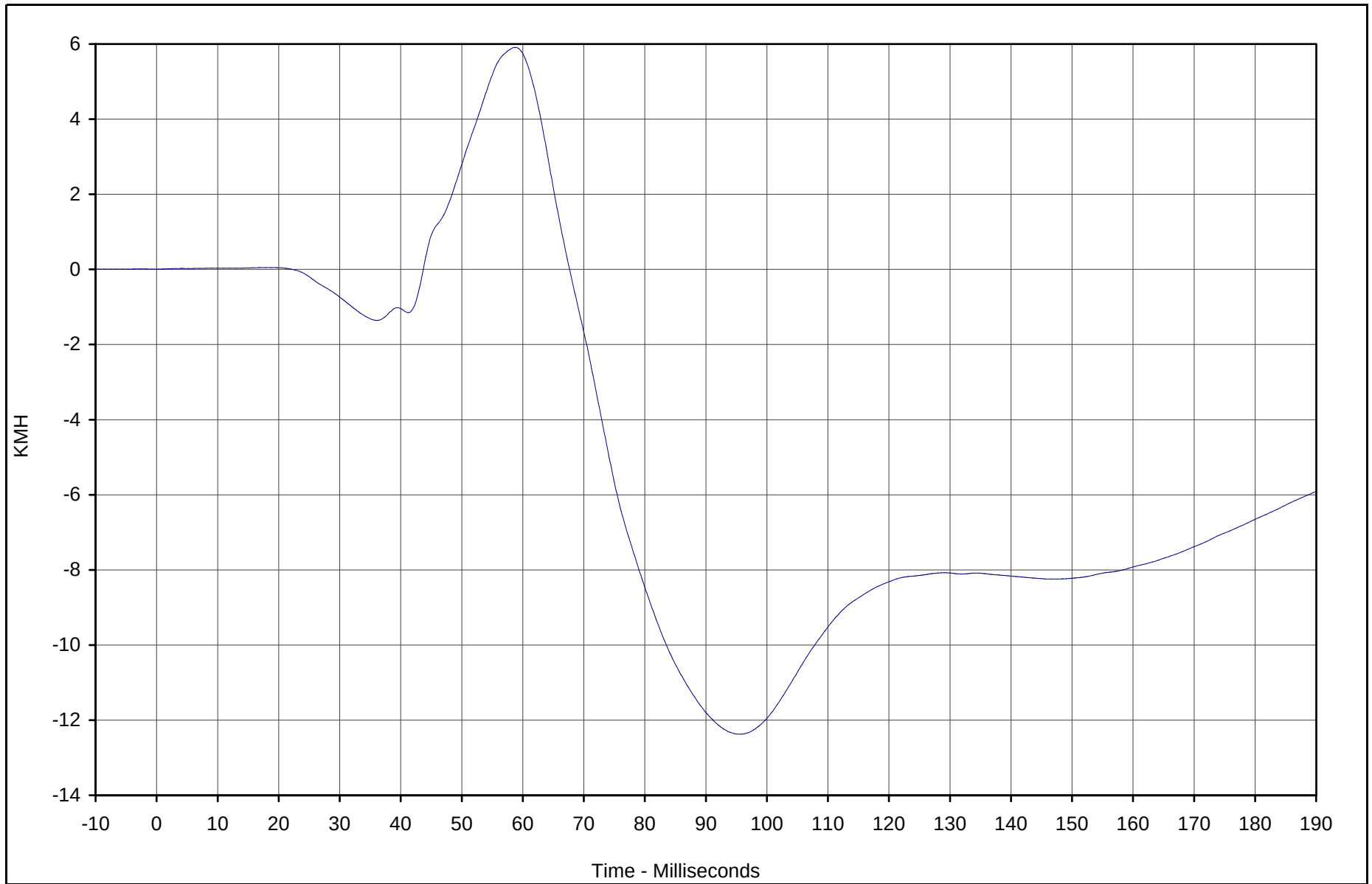


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Head Z Redundant Velocity	028	IN1	KMH	5.9	58.8	-12.4	95.5	180

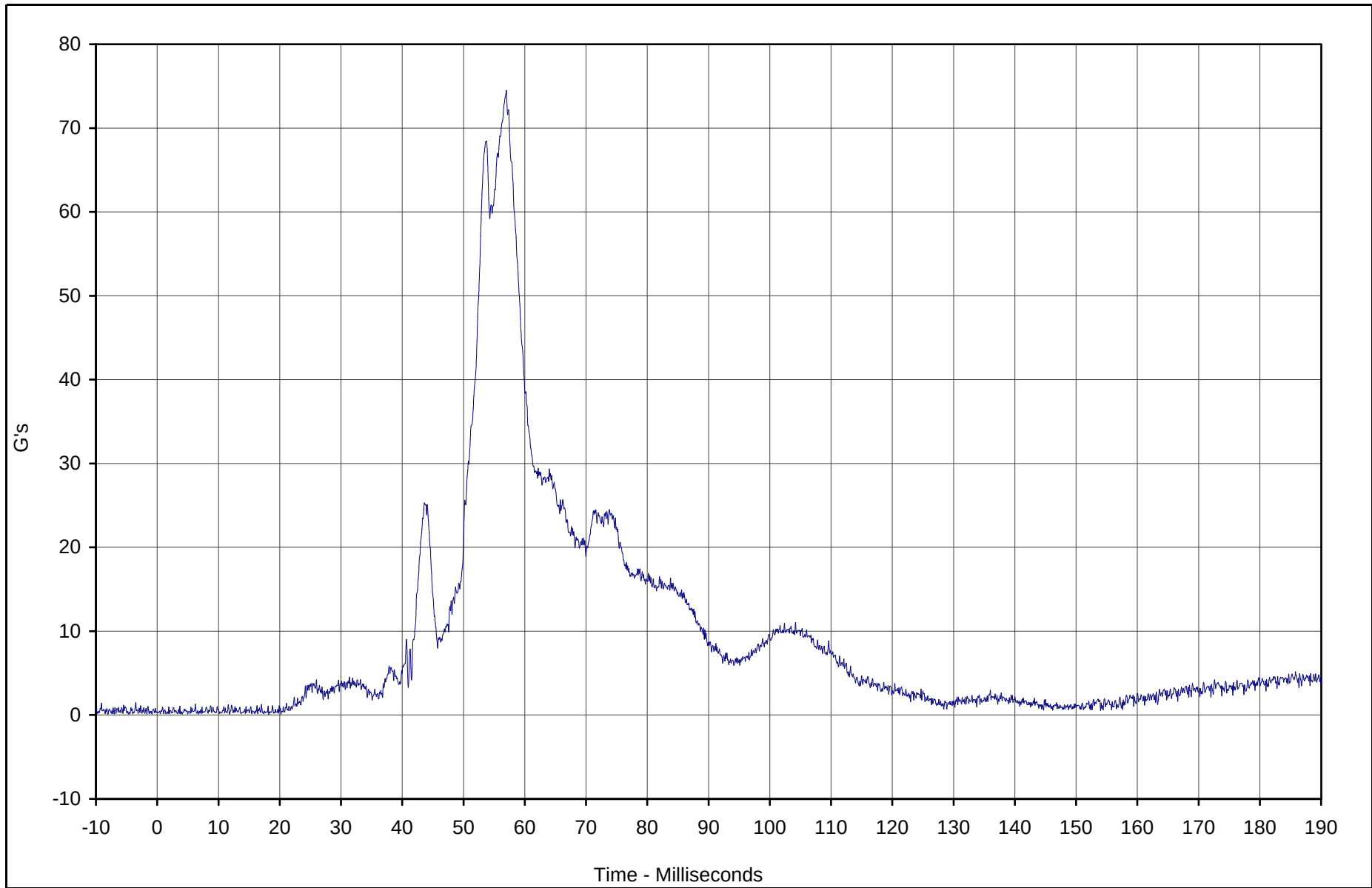


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Head Redundant Resultant	026	RES	G's	74.5	57.0	0.1	18.2	1000

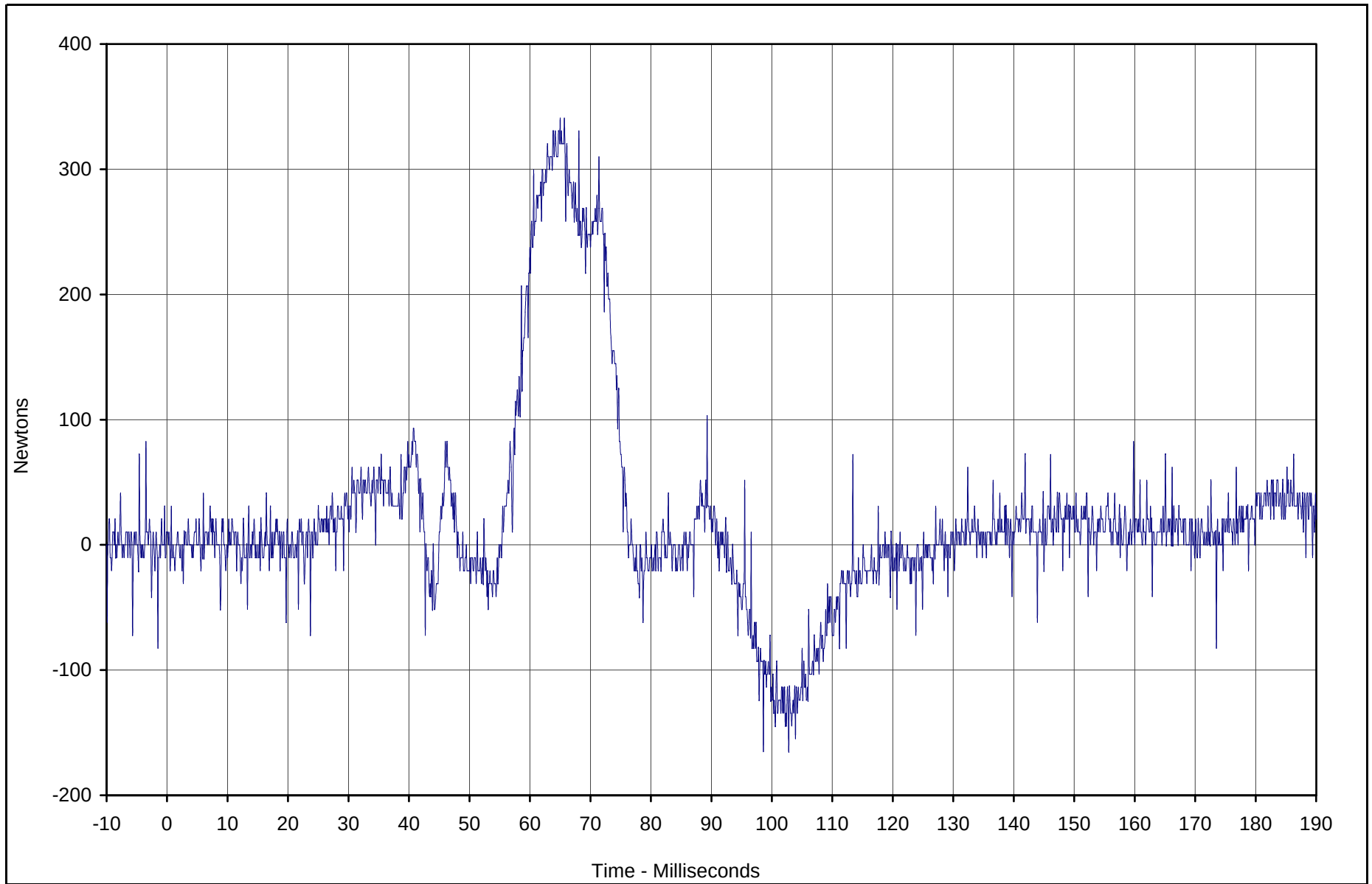


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Neck Force X	029	FIL	Newtons	341.0	65.0	-165.3	98.6	1000

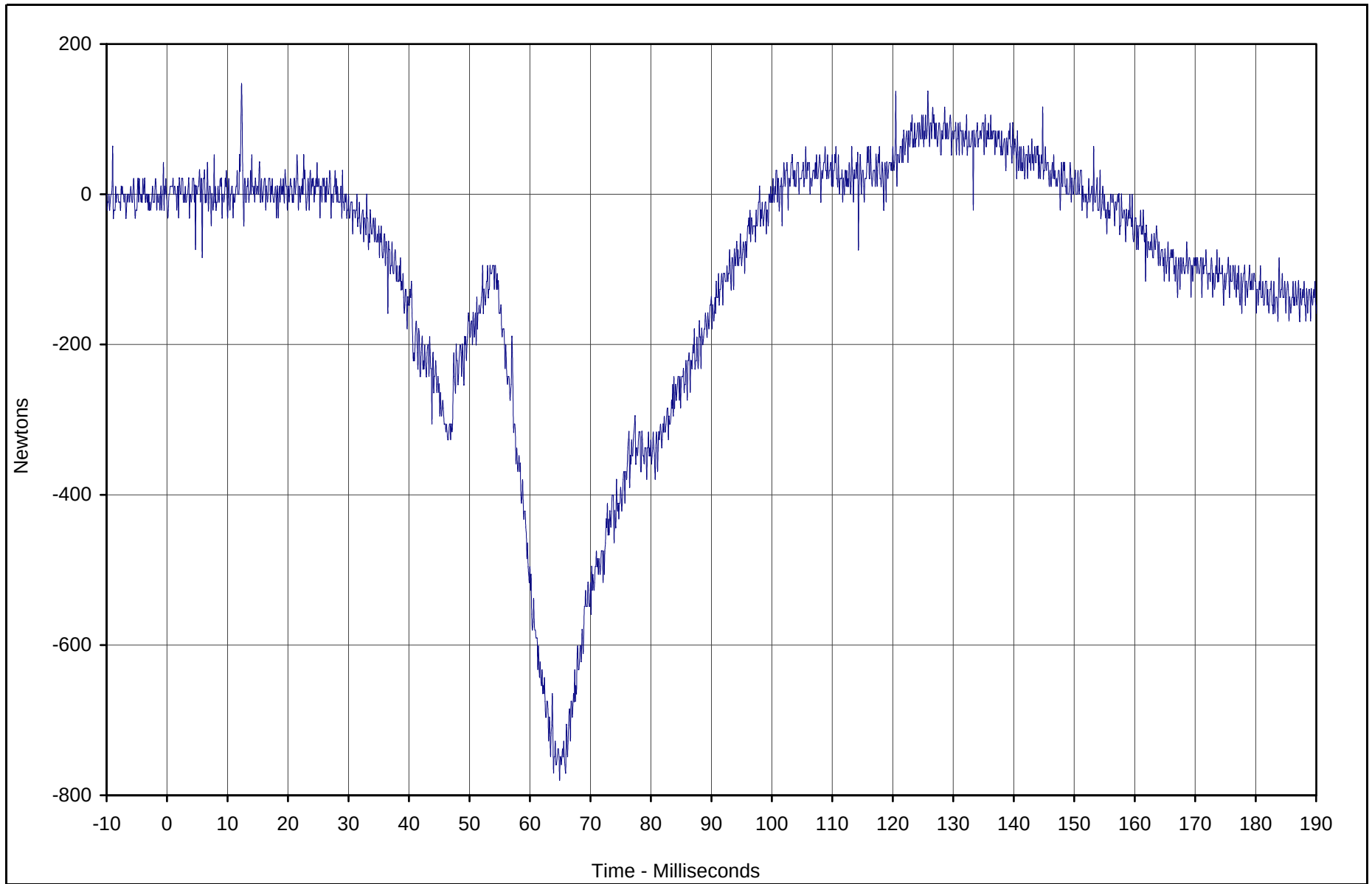


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Neck Force Y	030	FIL	Newtons	147.6	12.3	-780.4	64.9	1000

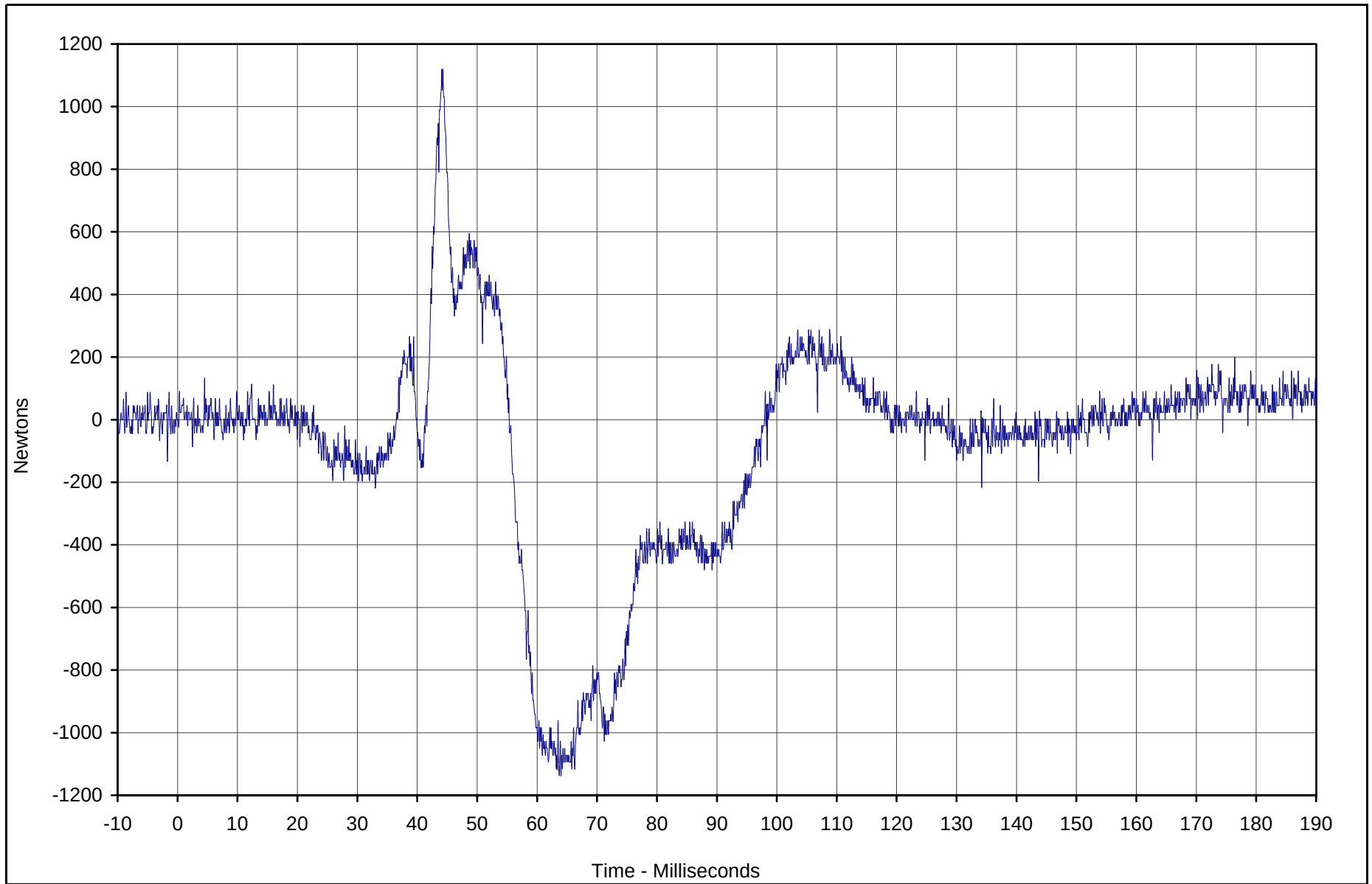


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Neck Force Z	031	FIL	Newtons	1119.4	44.1	-1137.5	63.7	1000

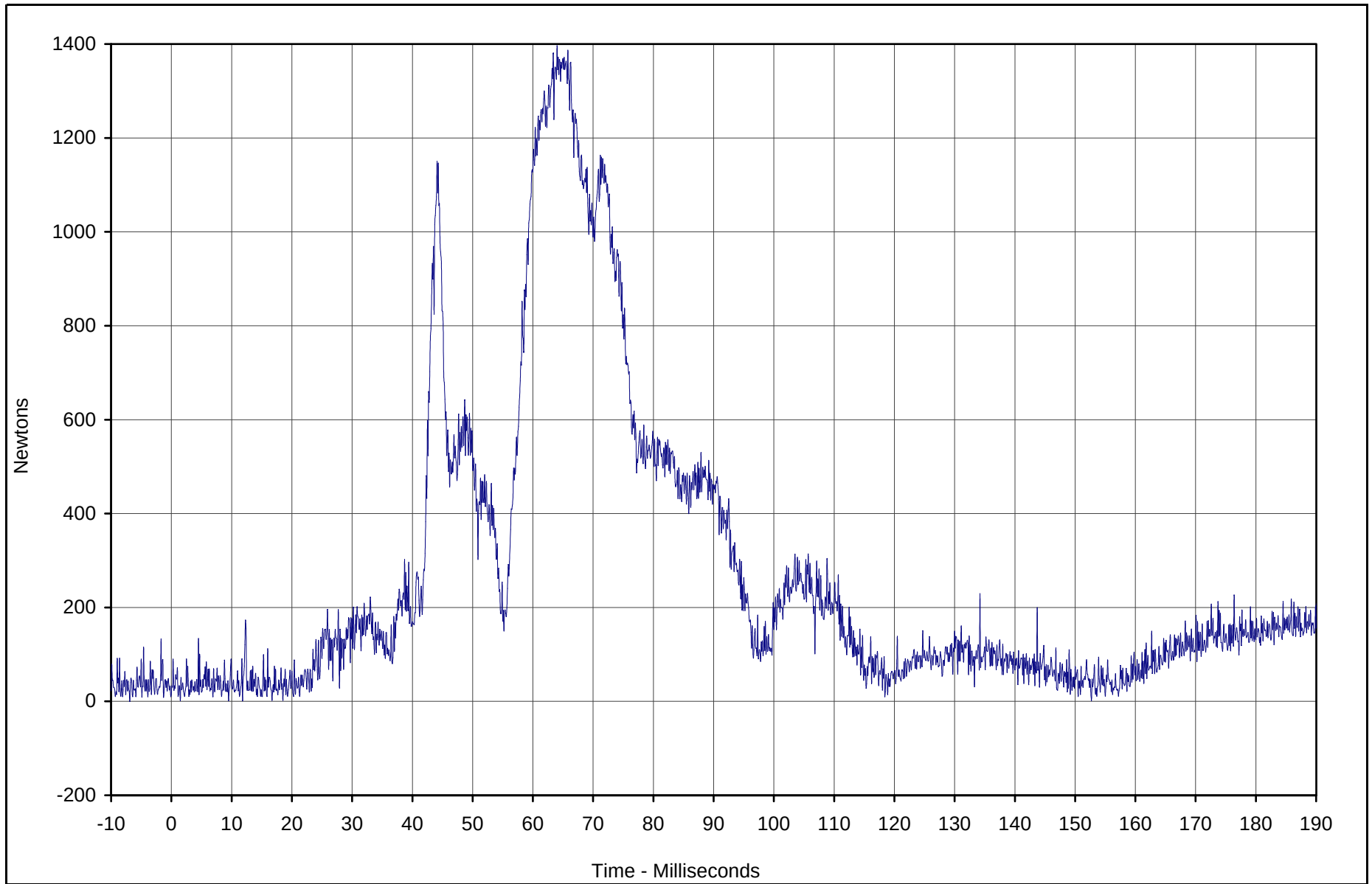


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Neck Force Resultant	029	RES	Newtons	1396.7	64.0	1.9	1.5	1000

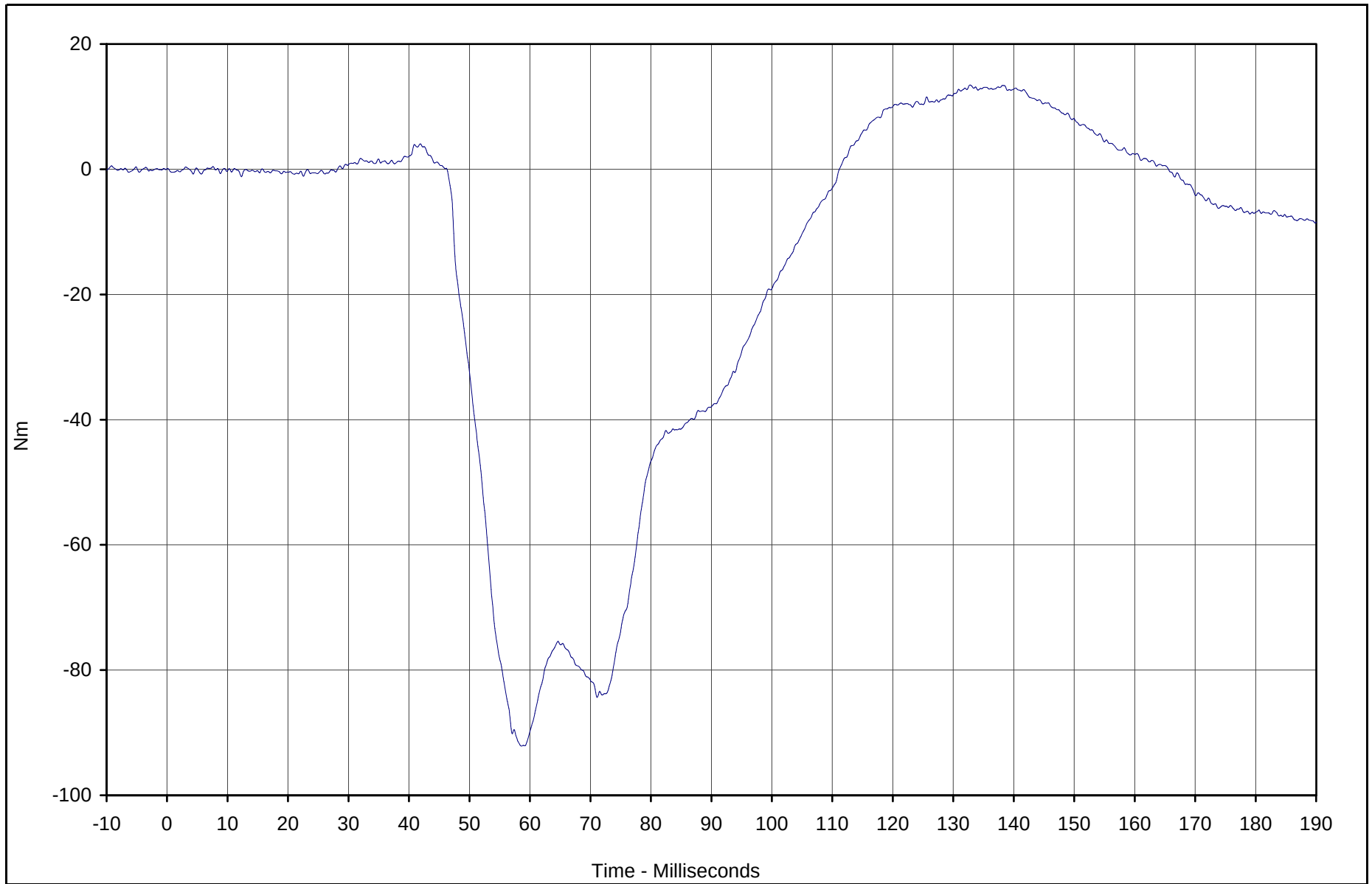


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Neck Moment X	032	FIL	Nm	13.5	132.8	-92.2	58.6	600

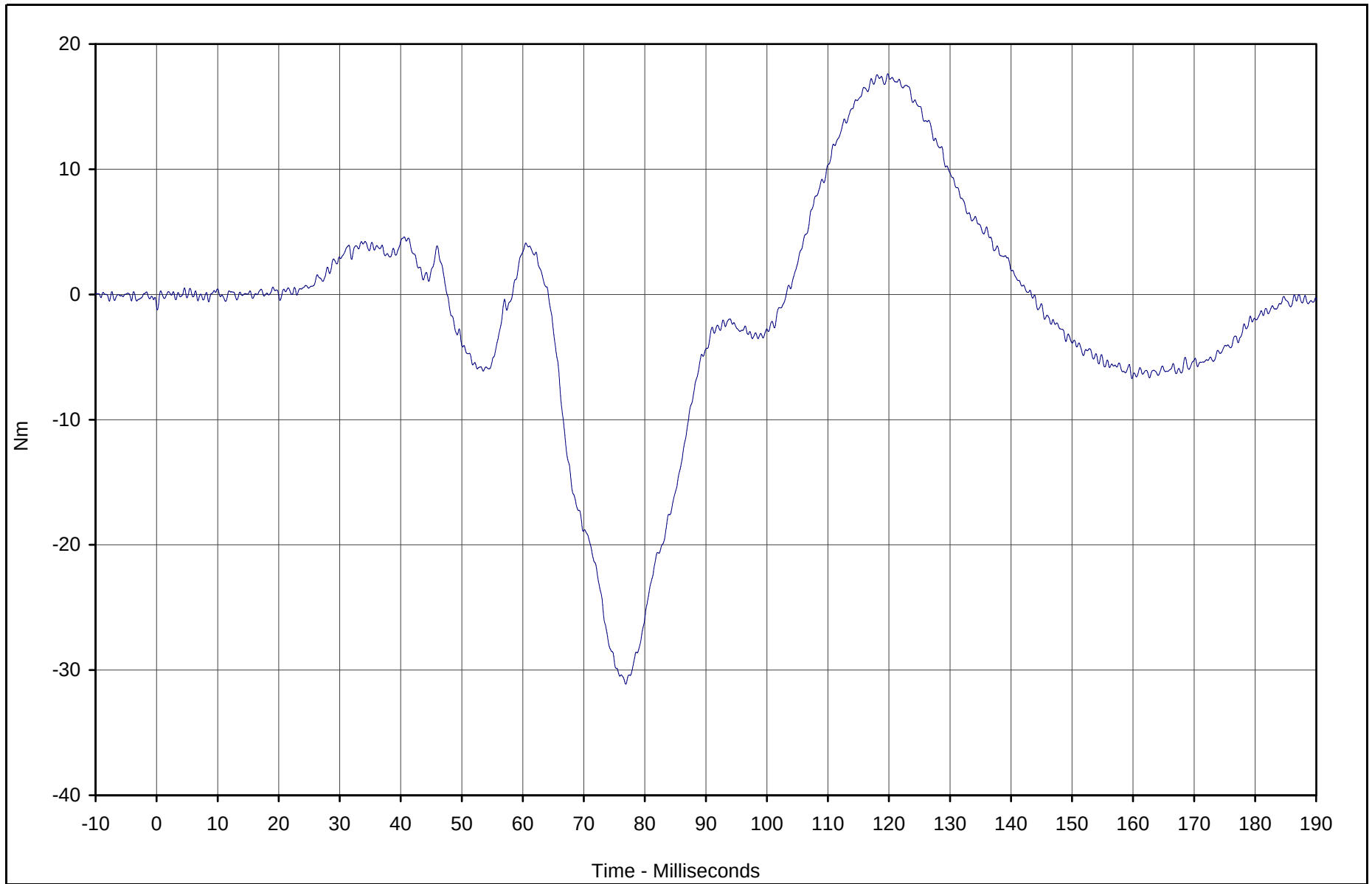


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Neck Moment Y	033	FIL	Nm	17.6	119.8	-31.1	76.9	600

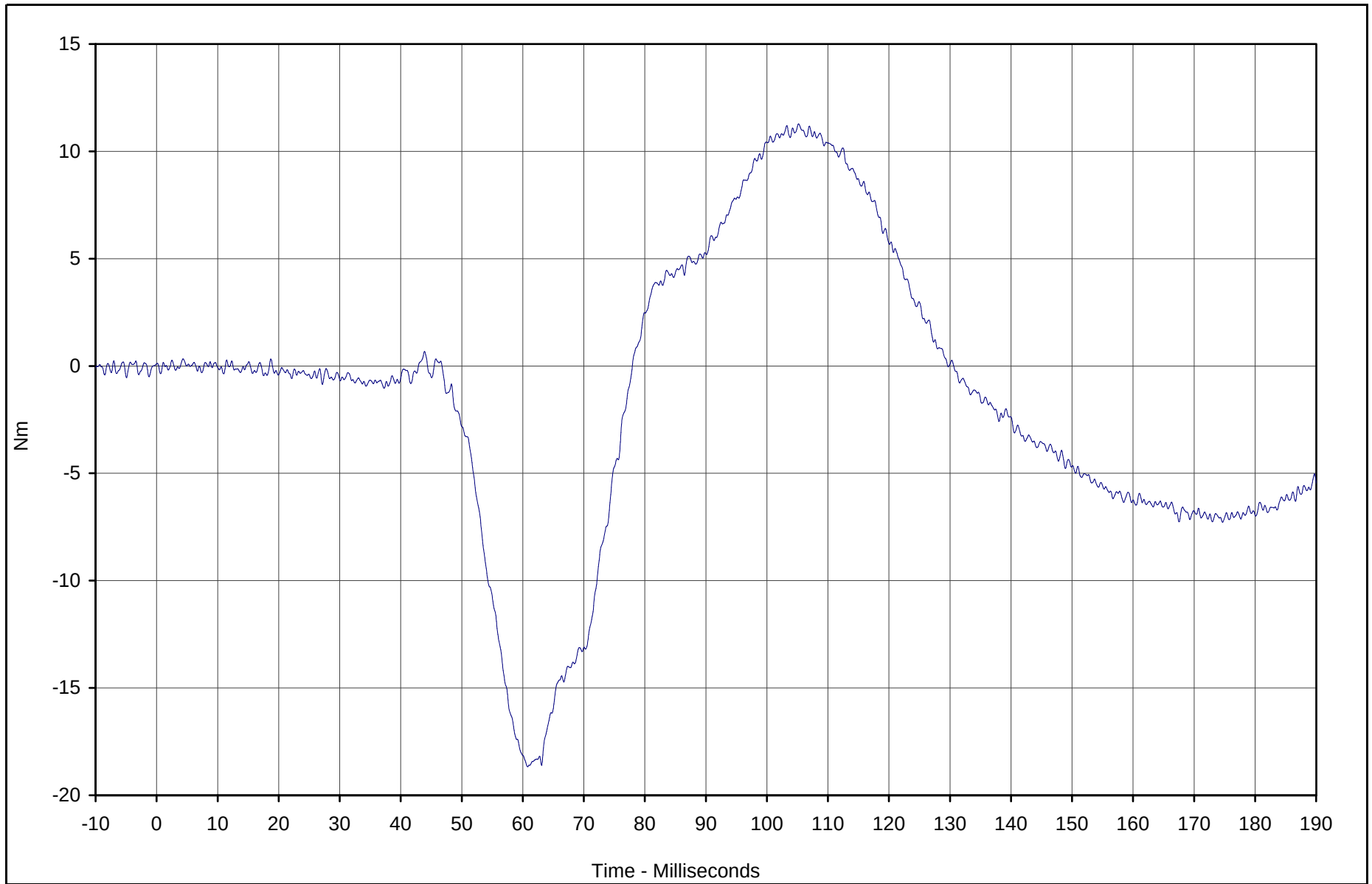


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Neck Moment Z	034	FIL	Nm	11.3	105.2	-18.7	60.8	600

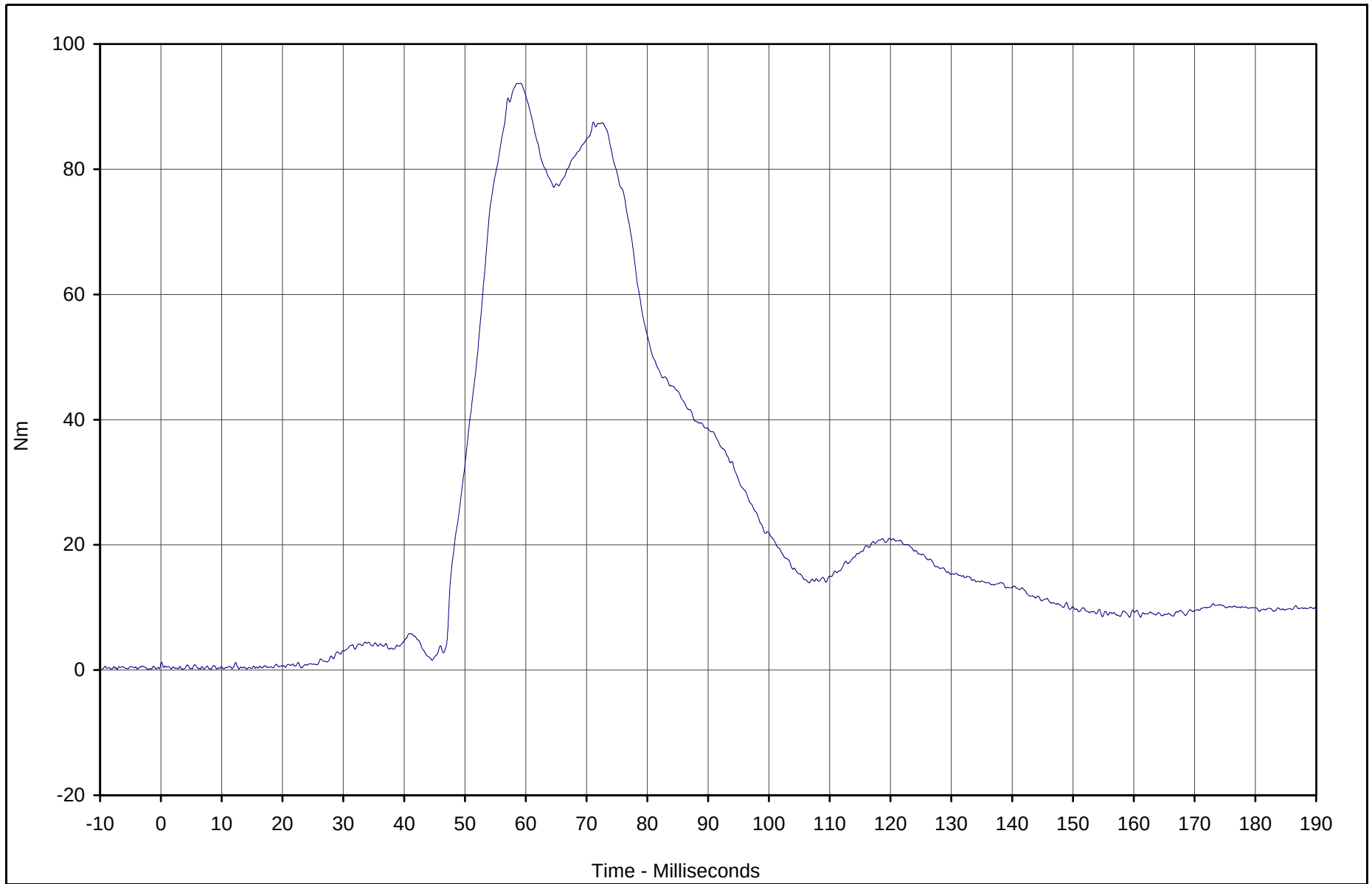


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Neck Moment Resultant	032	RES	Nm	93.7	59.1	0.1	3.7	600

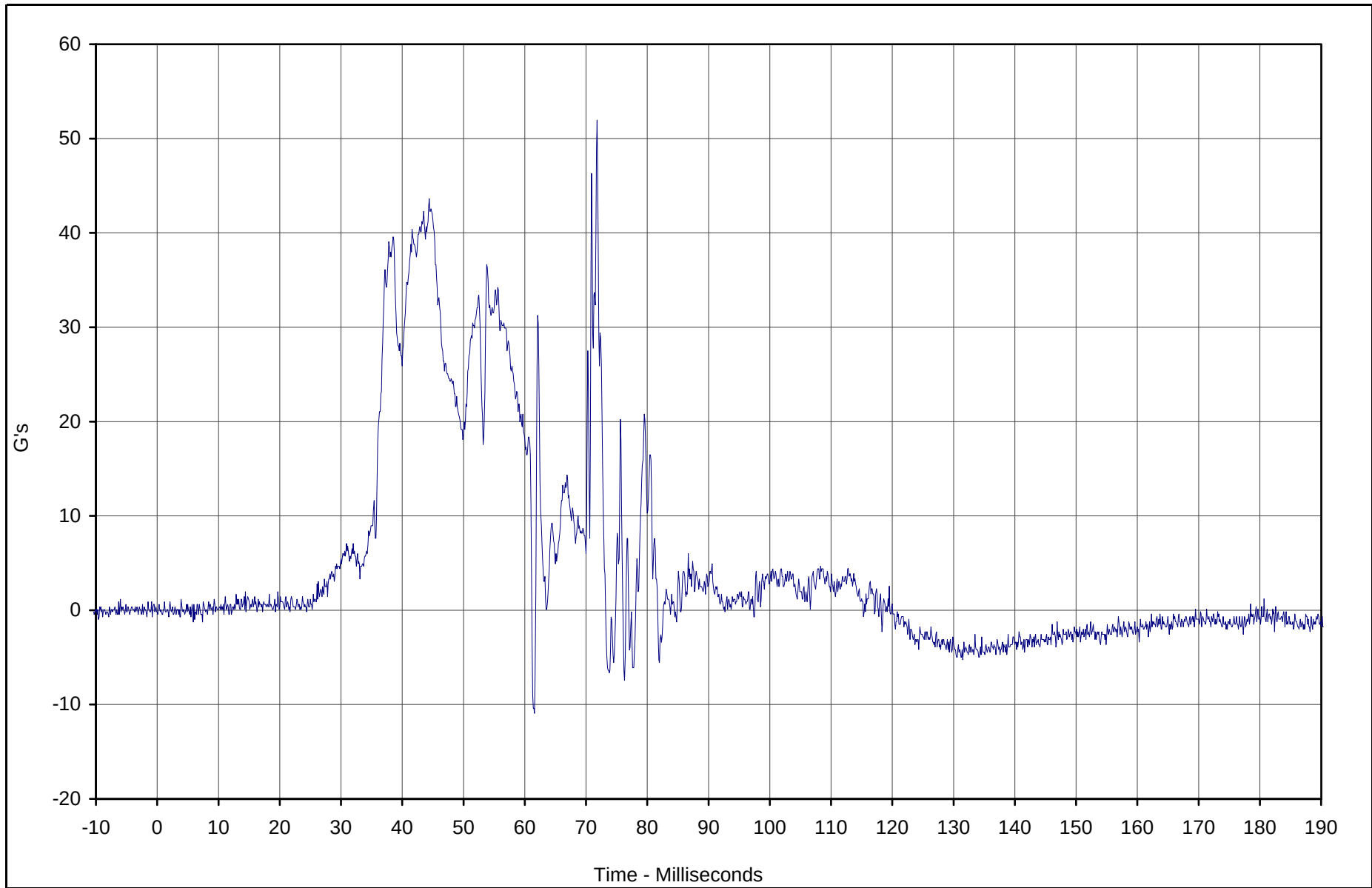


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Upper Rib Primary Y	035	FIL	G's	52.0	71.8	-10.9	61.6	1000

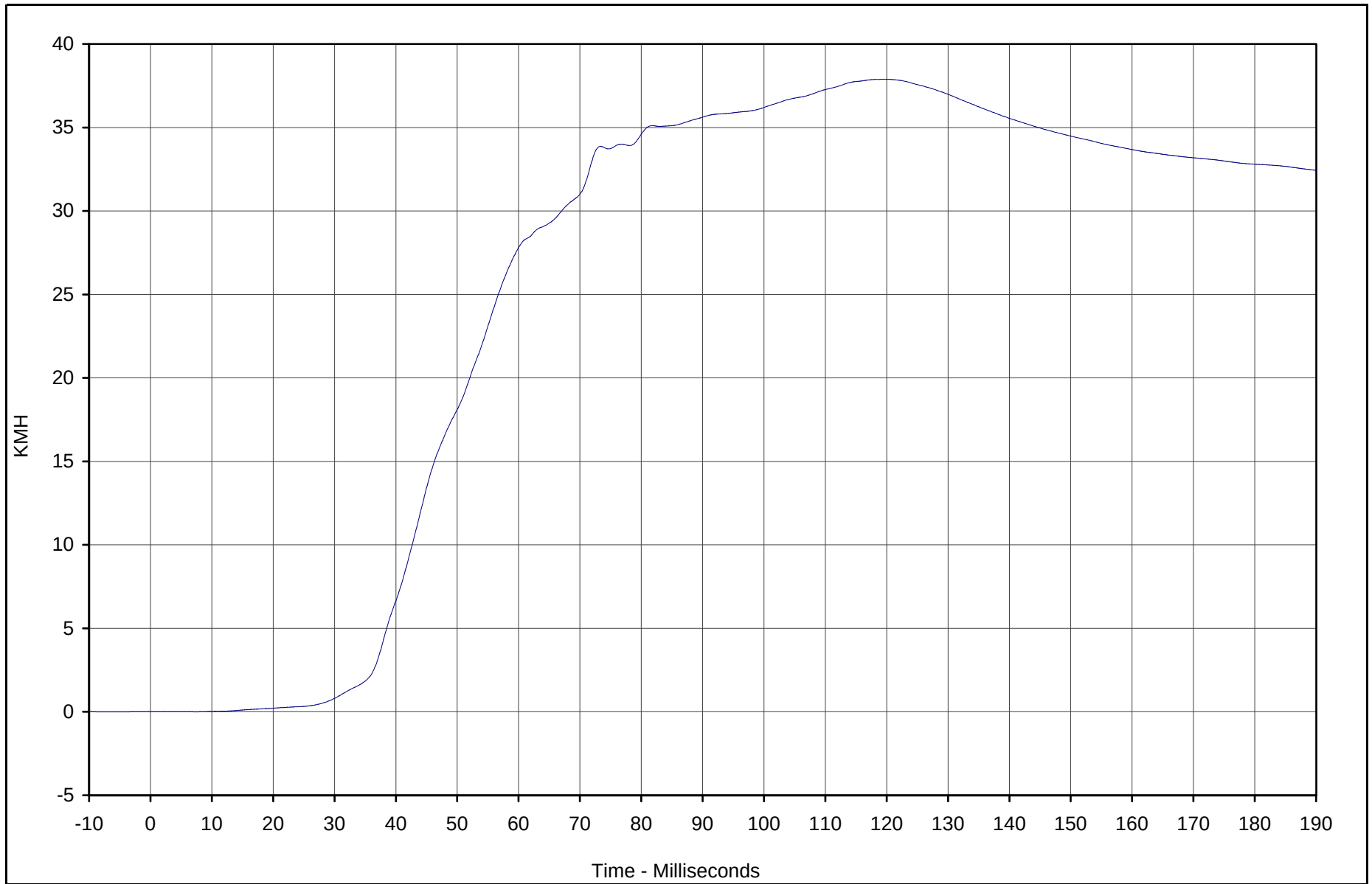


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Upper Rib Primary Y Vel.	035	IN1	KMH	37.9	119.8	0.0	7.5	180

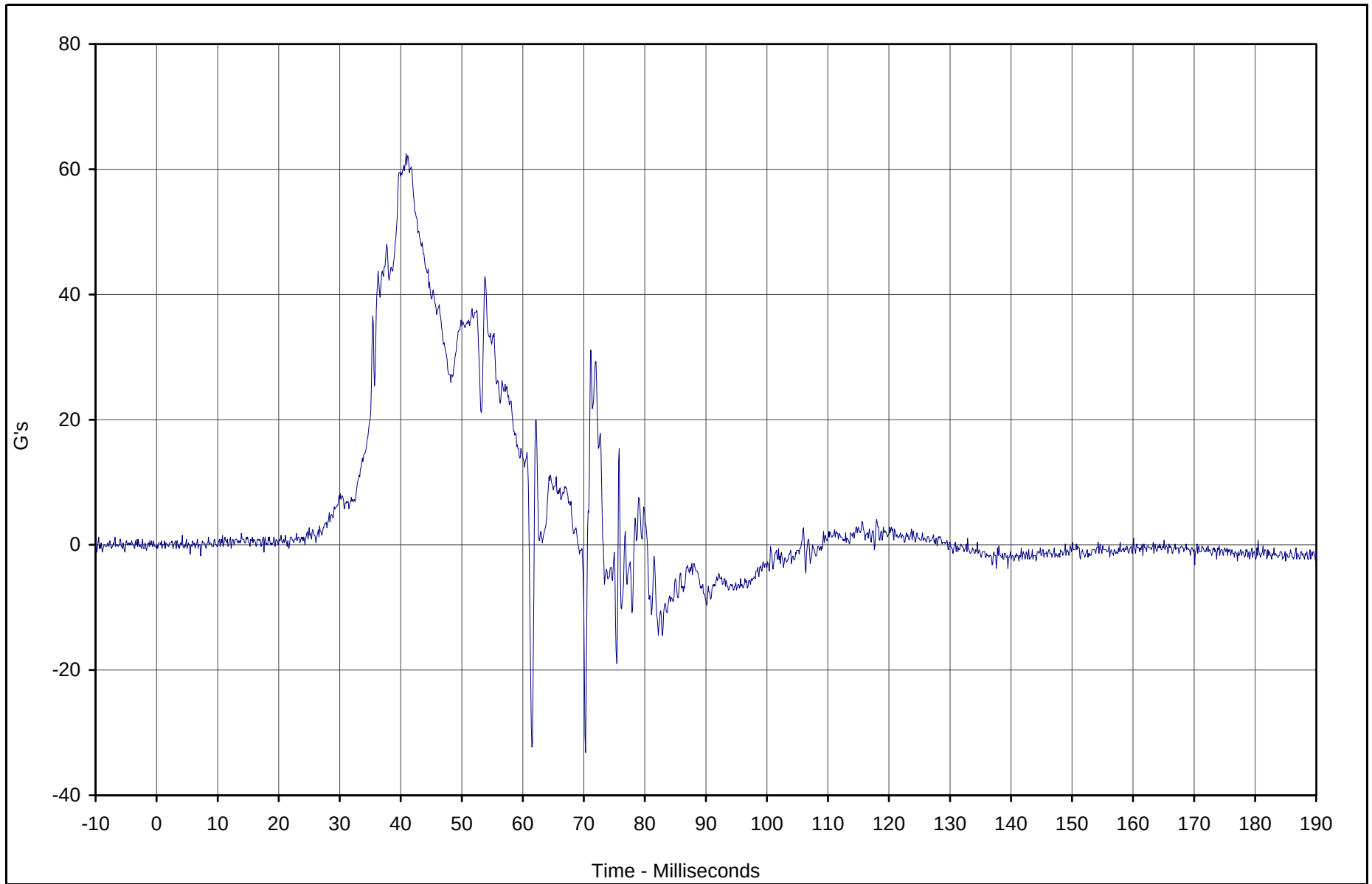


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Lower Rib Primary Y	036	FIL	G's	62.5	40.9	-33.2	70.3	1000

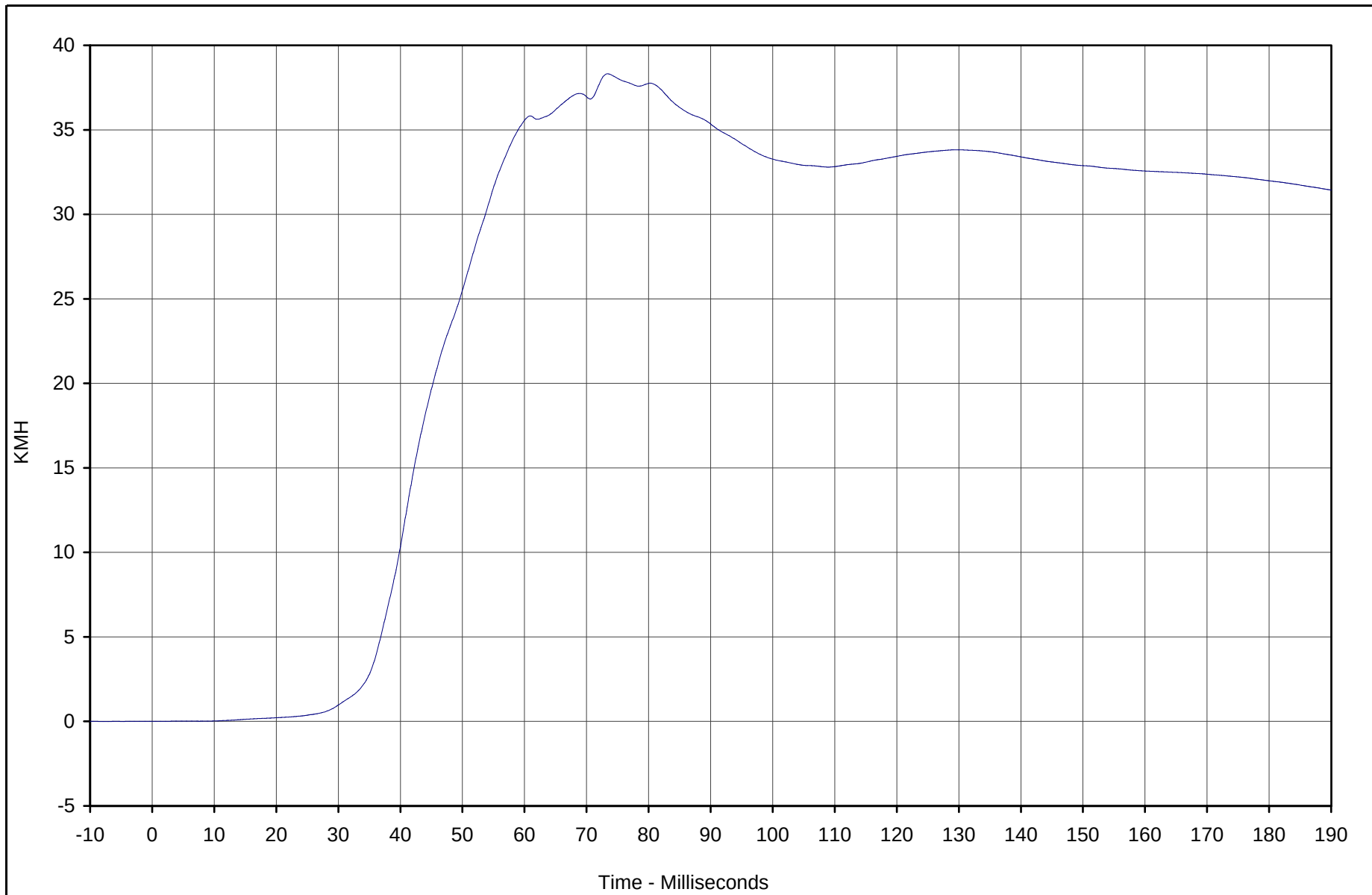


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Lower Rib Primary Y Vel.	036	IN1	KMH	38.3	73.4	0.0	0.3	180

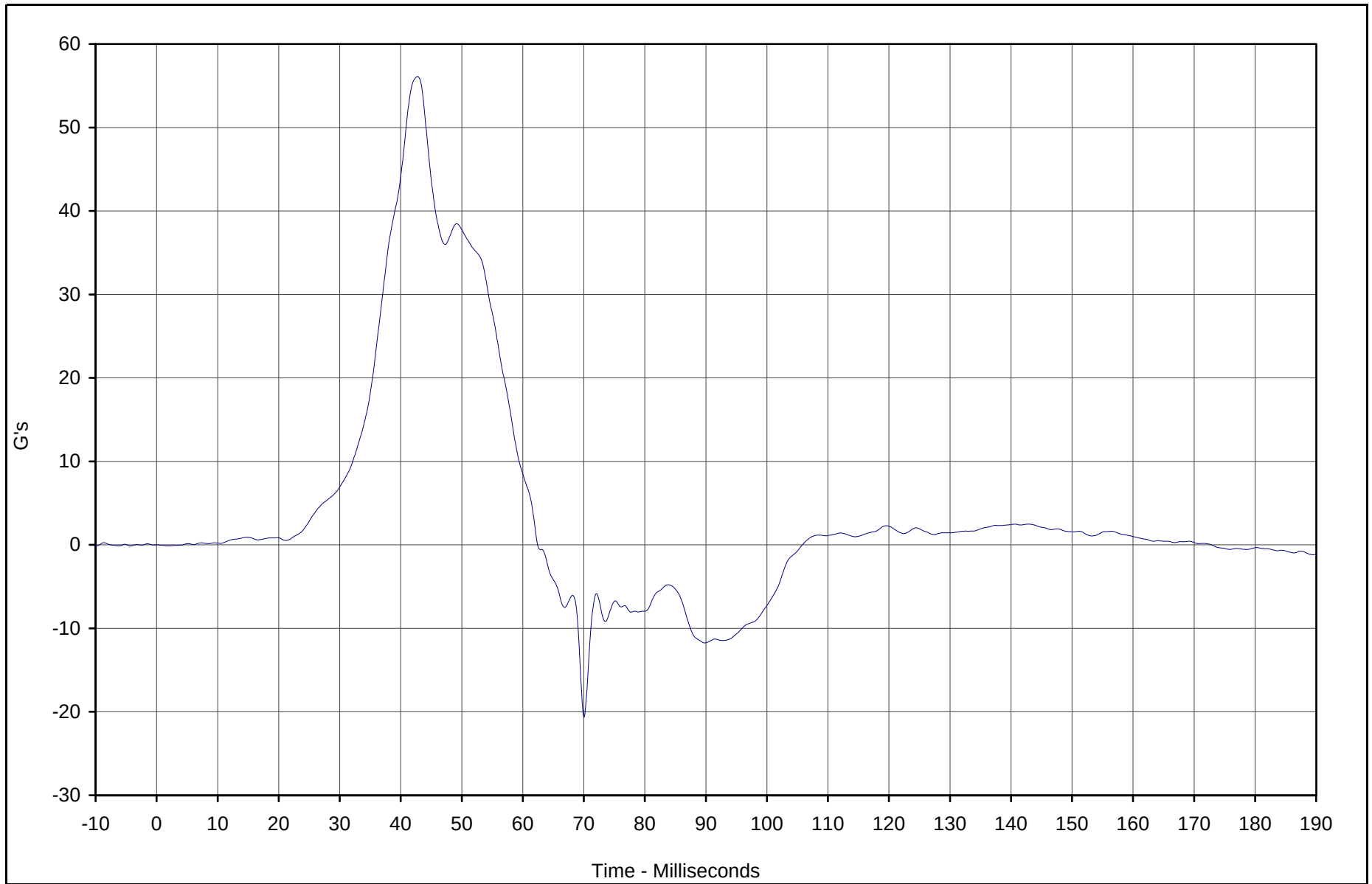


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Lower Spine Primary Y	037	FIL	G's	56.1	42.8	-20.7	70.0	180

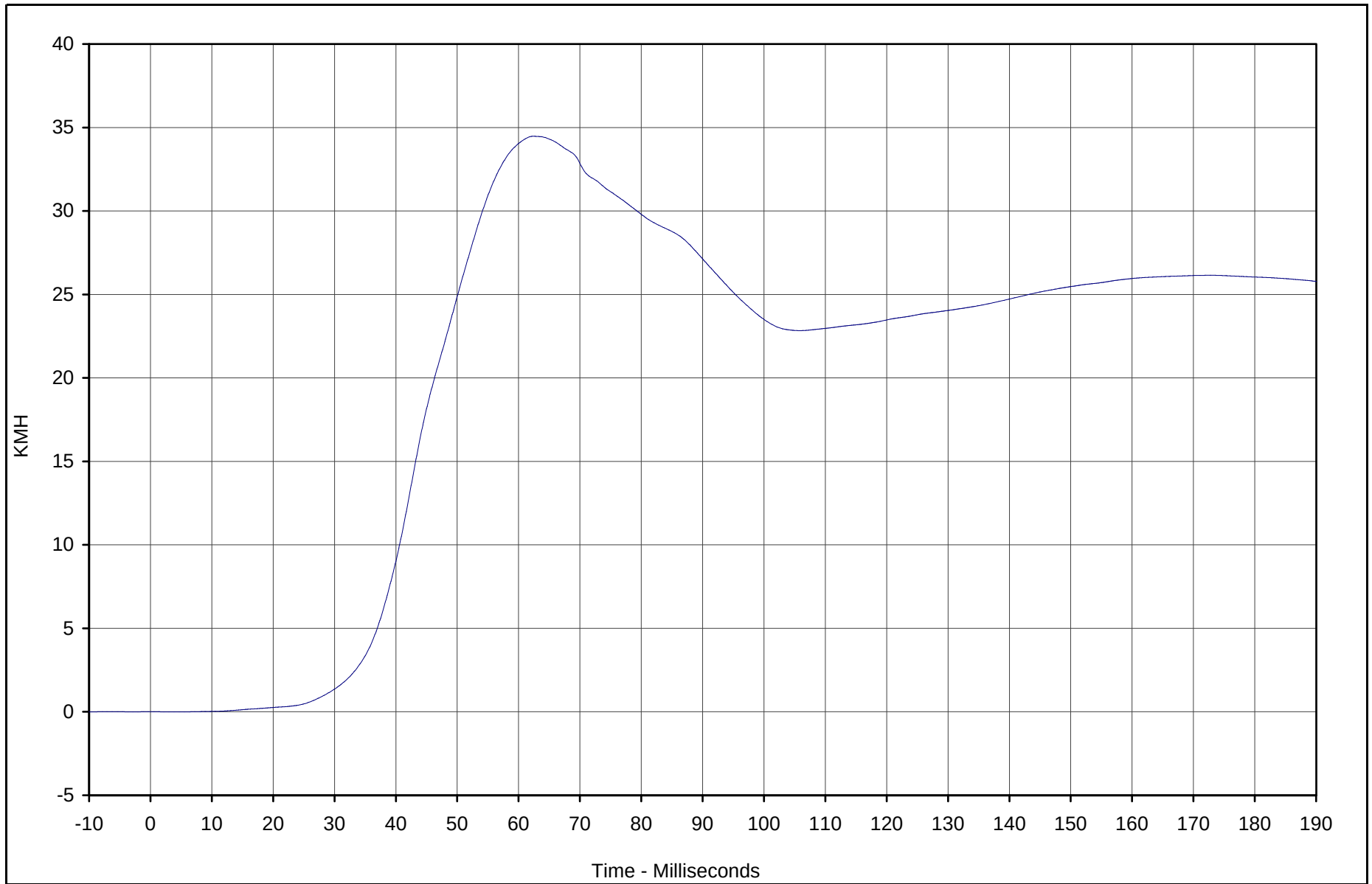


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Lower Spine Primary Y Vel.	037	IN1	KMH	34.5	62.4	0.0	4.3	180

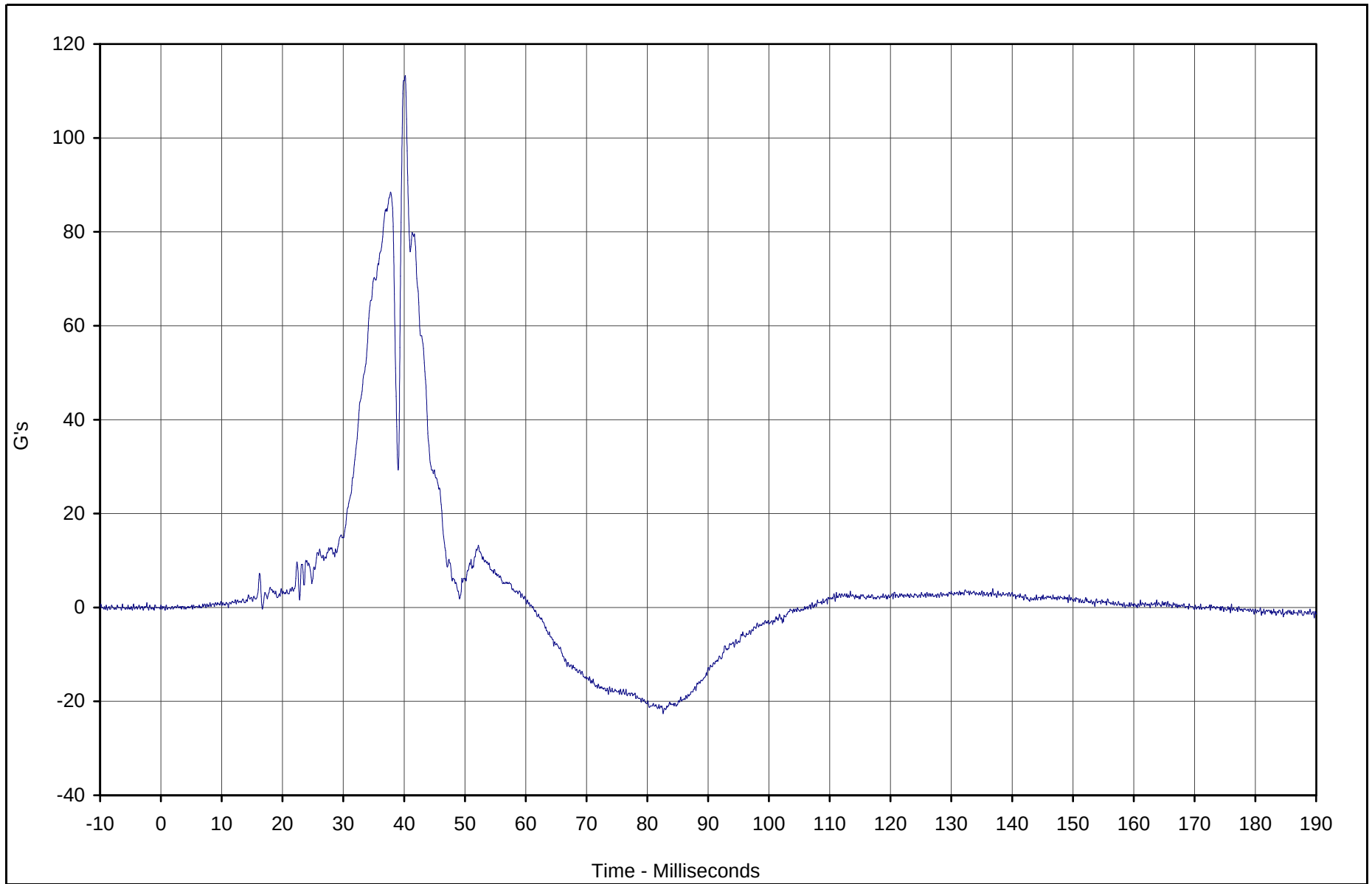


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Pelvis Primary Y	038	FIL	G's	113.2	40.2	-22.6	82.6	1000

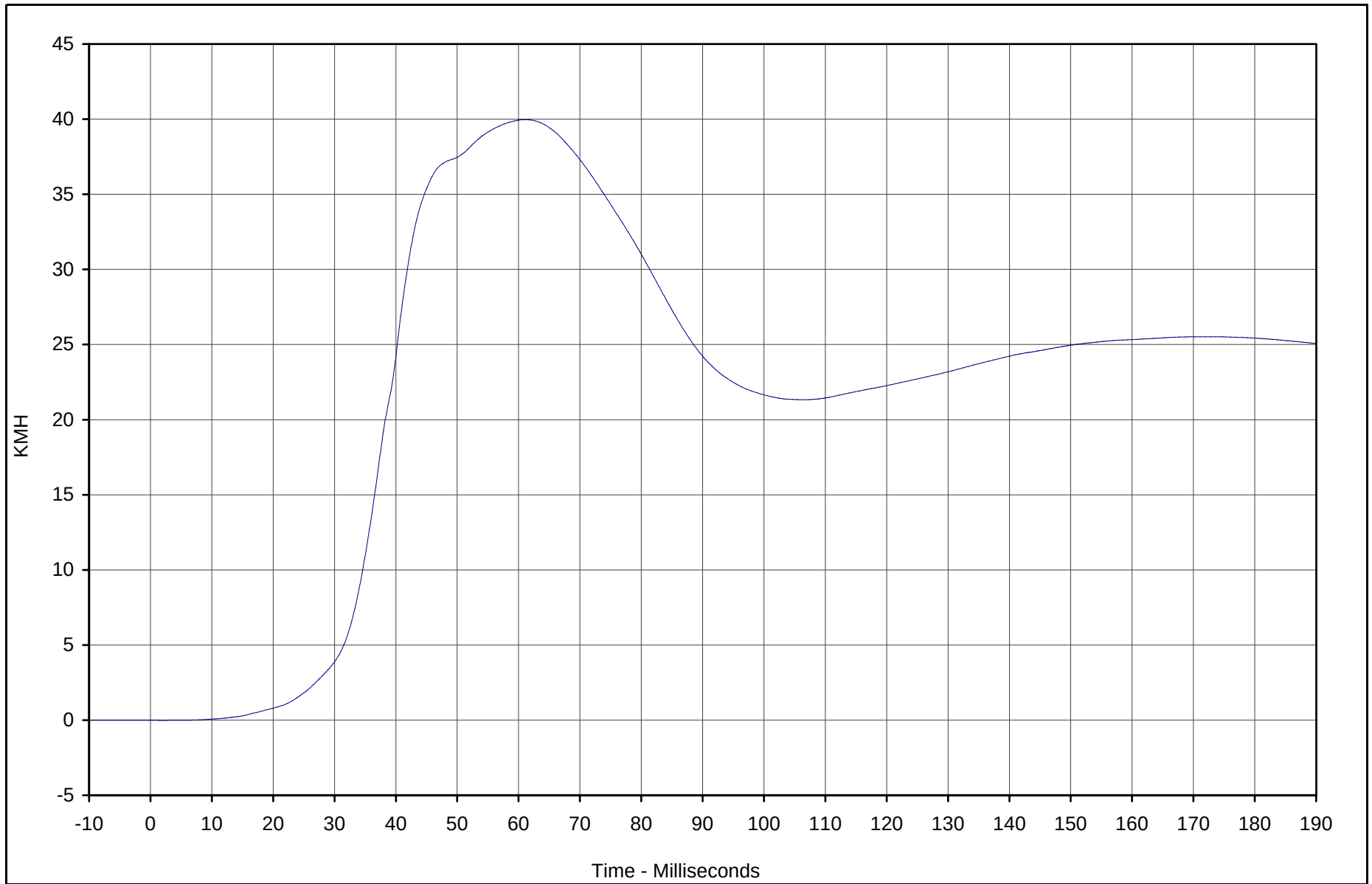


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Pelvis Primary Y Vel.	038	IN1	KMH	40.0	61.1	0.0	2.0	180

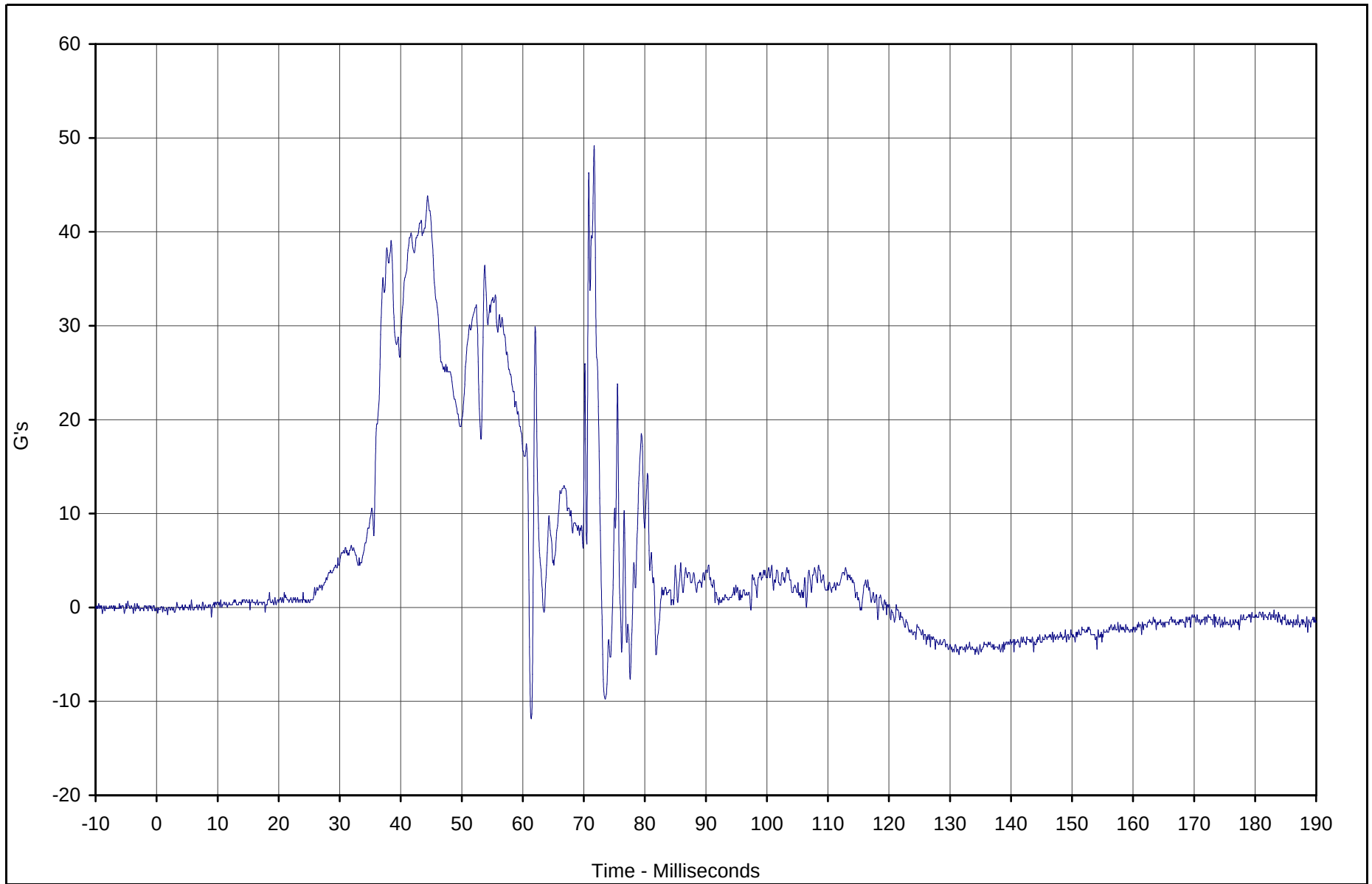


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Upper Rib Redundant Y	039	FIL	G's	49.1	71.7	-11.9	61.4	1000

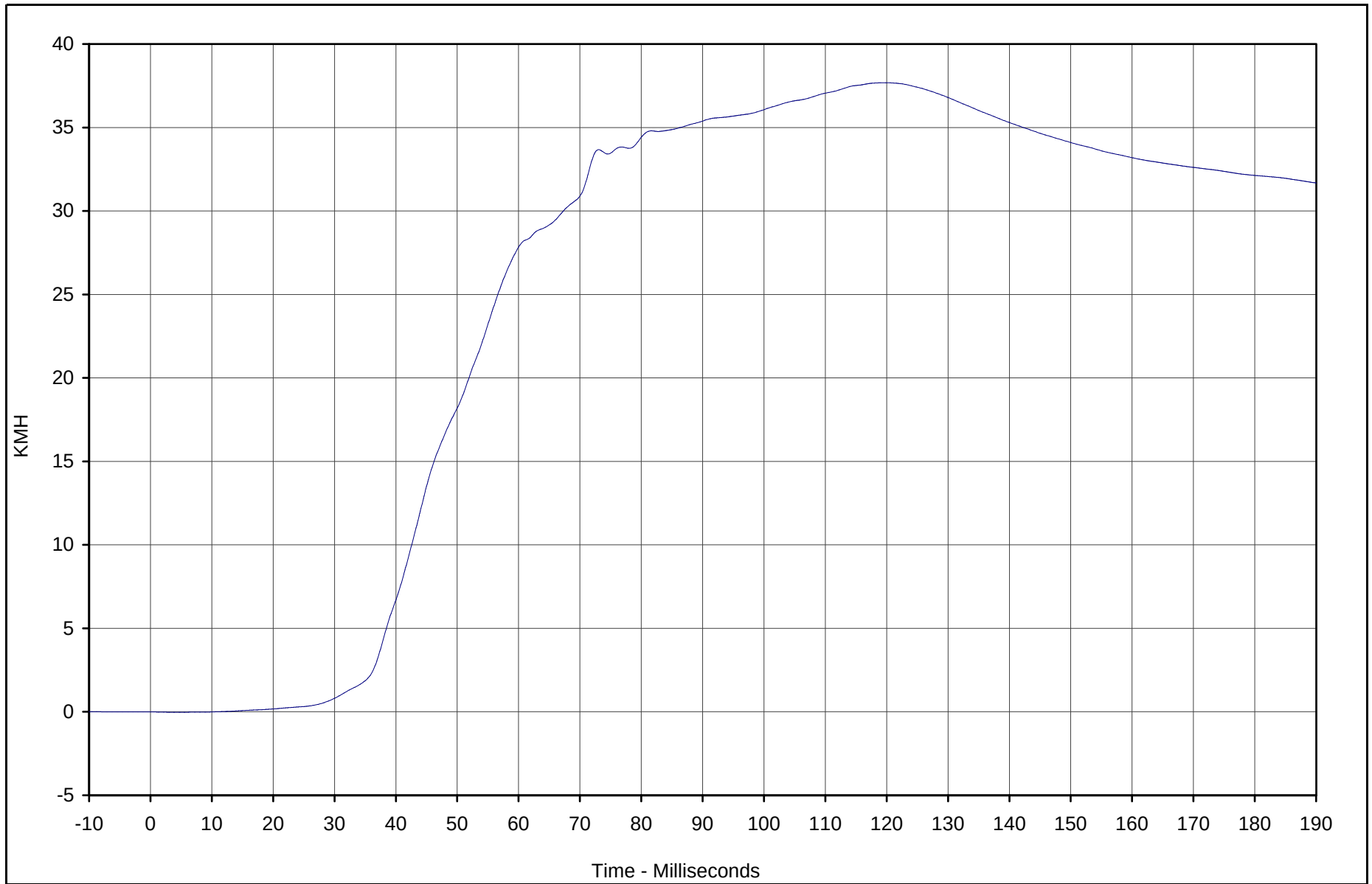


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Upper Rib Redundant Y Vel.	039	IN1	KMH	37.7	119.8	0.0	3.7	180

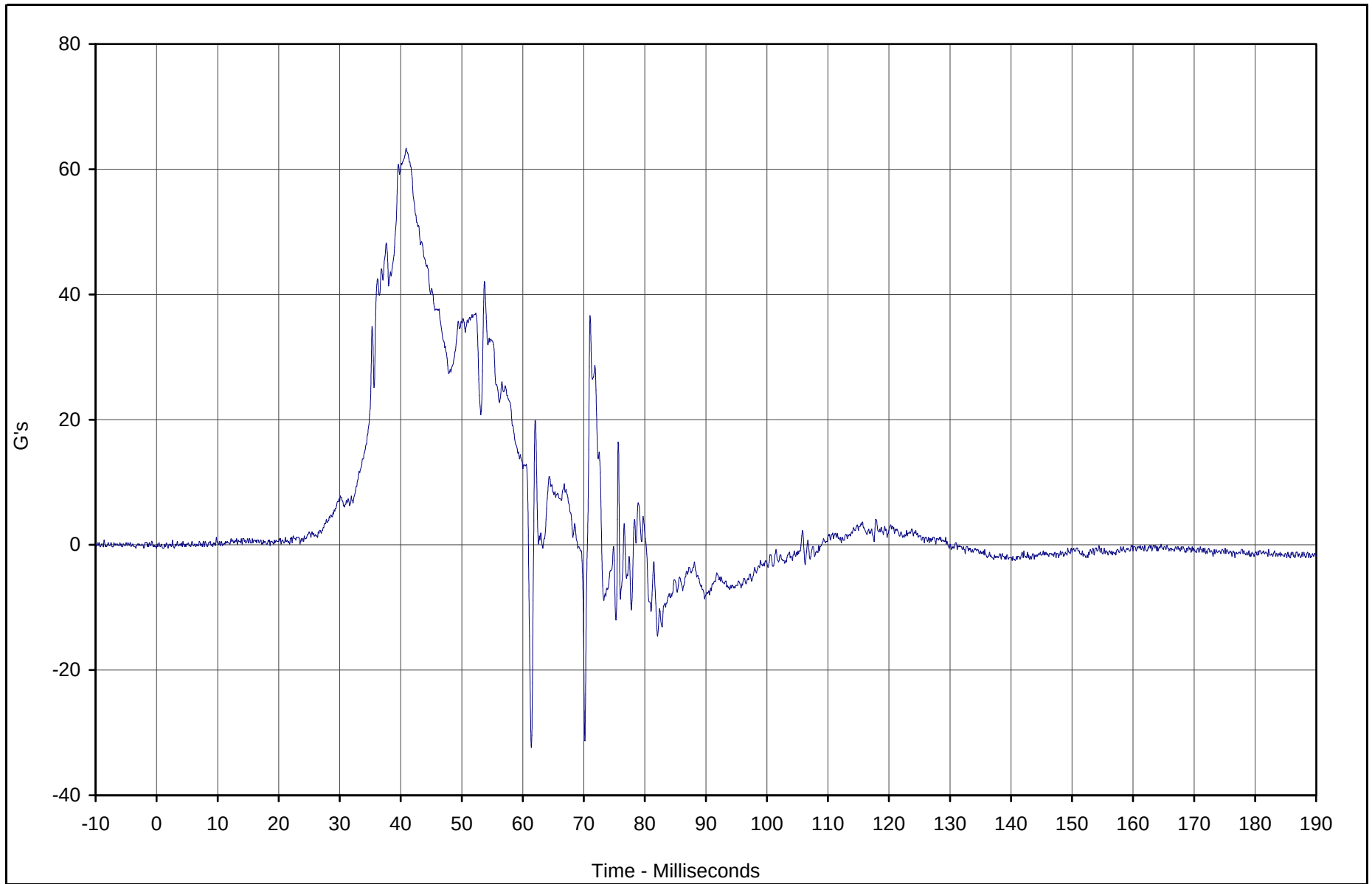


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Lower Rib Redundant Y	040	FIL	G's	63.4	40.9	-32.4	61.4	1000

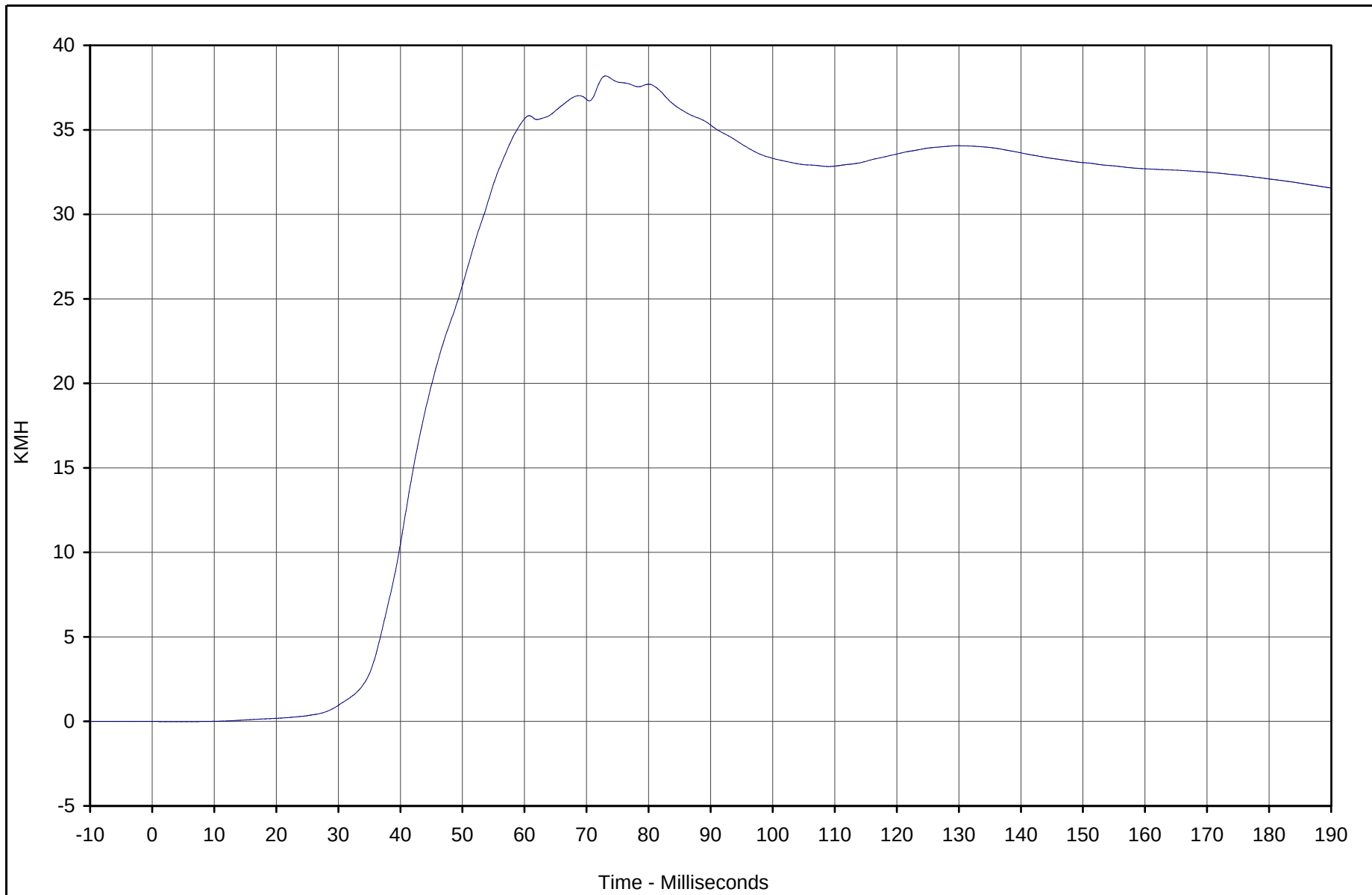


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Lower Rib Redundant Y Vel.	040	IN1	KMH	38.2	73.1	0.0	3.3	180

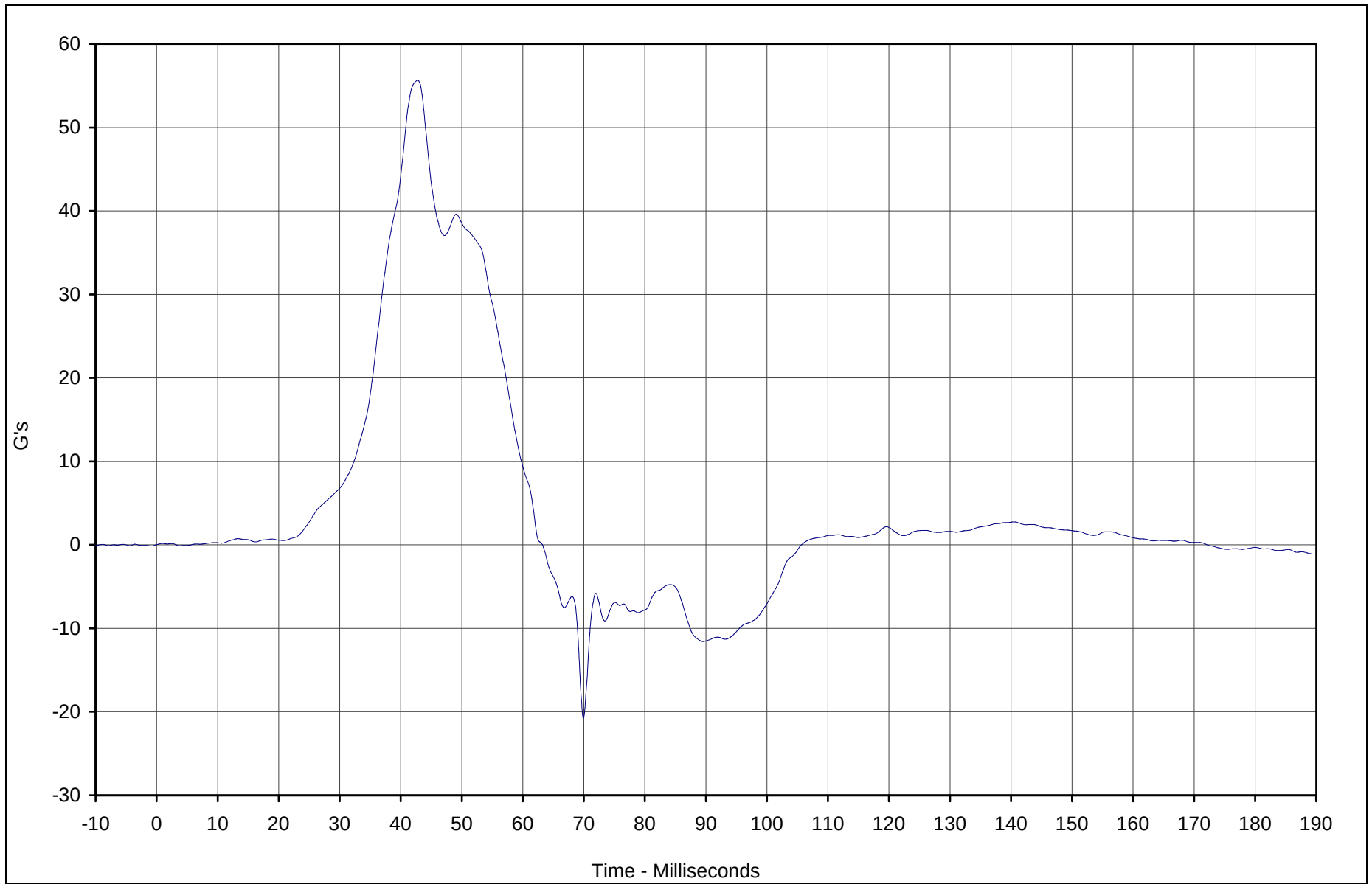


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Lower Spine Redundant Y	041	FIL	G's	55.7	42.8	-20.8	69.9	180

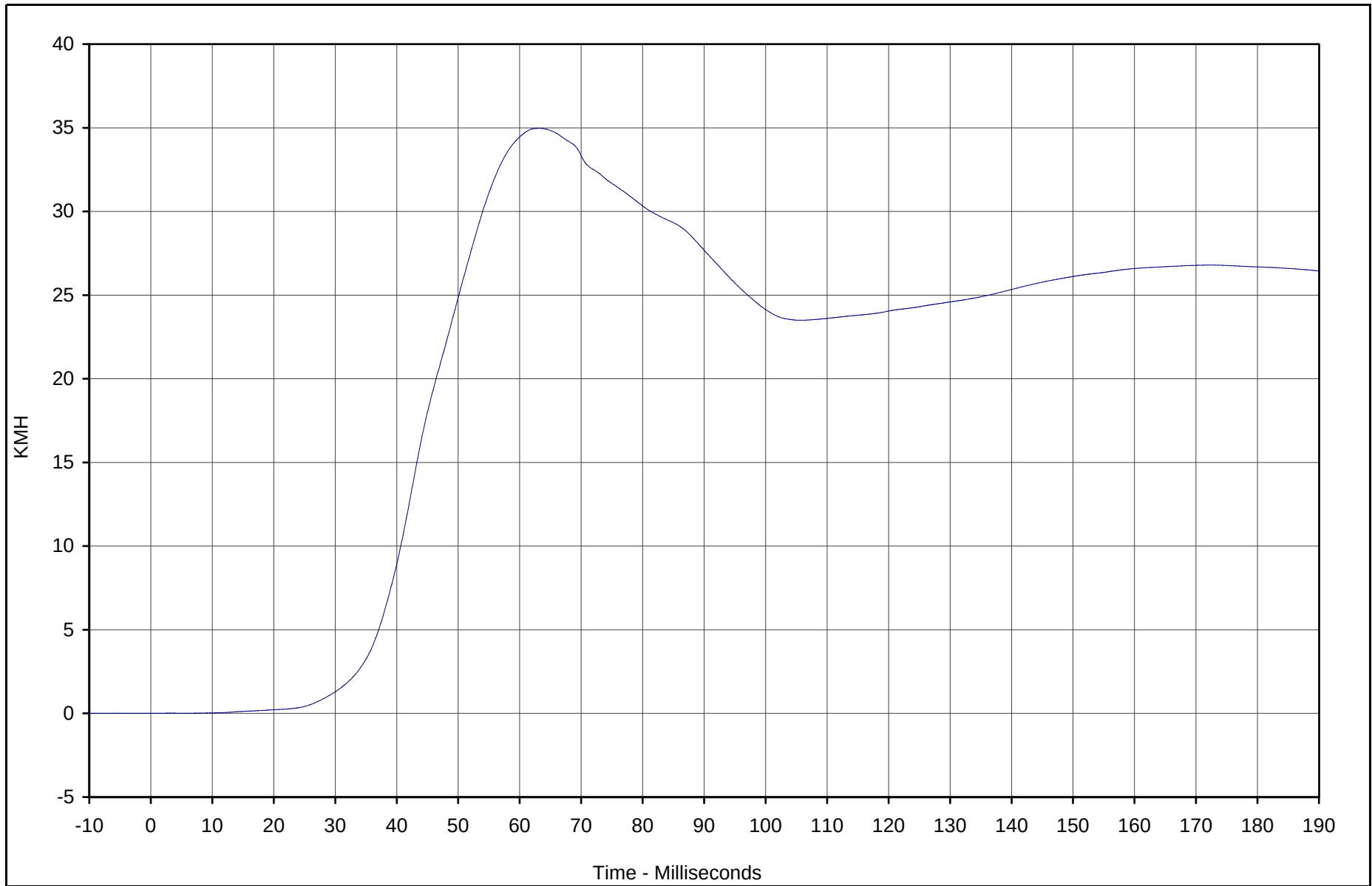


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Lower Spine Redundant Y Vel.	041	IN1	KMH	35.0	63.2	0.0	0.0	180

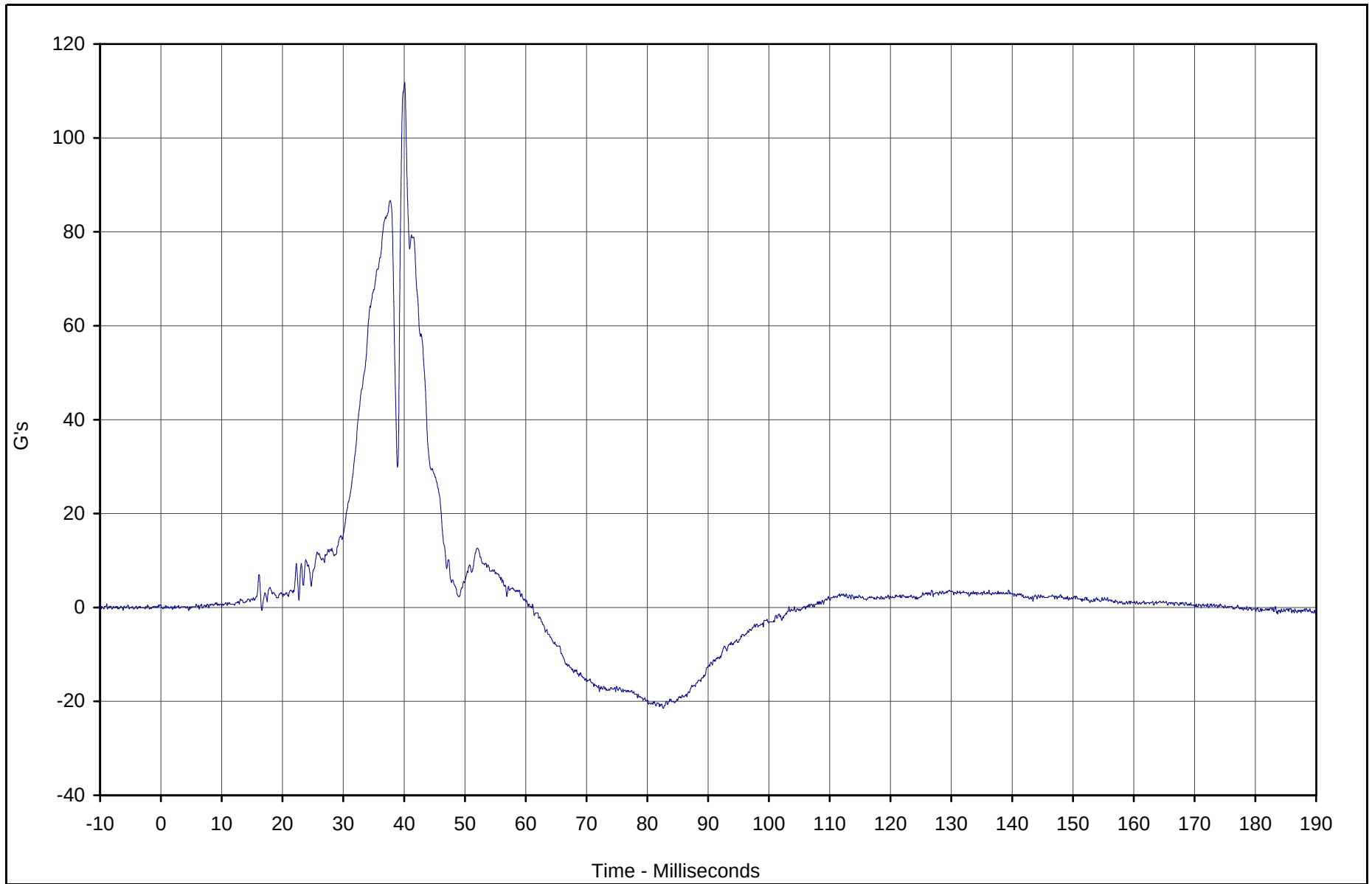


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Pelvis Redundant Y	042	FIL	G's	111.7	40.1	-21.4	82.6	1000

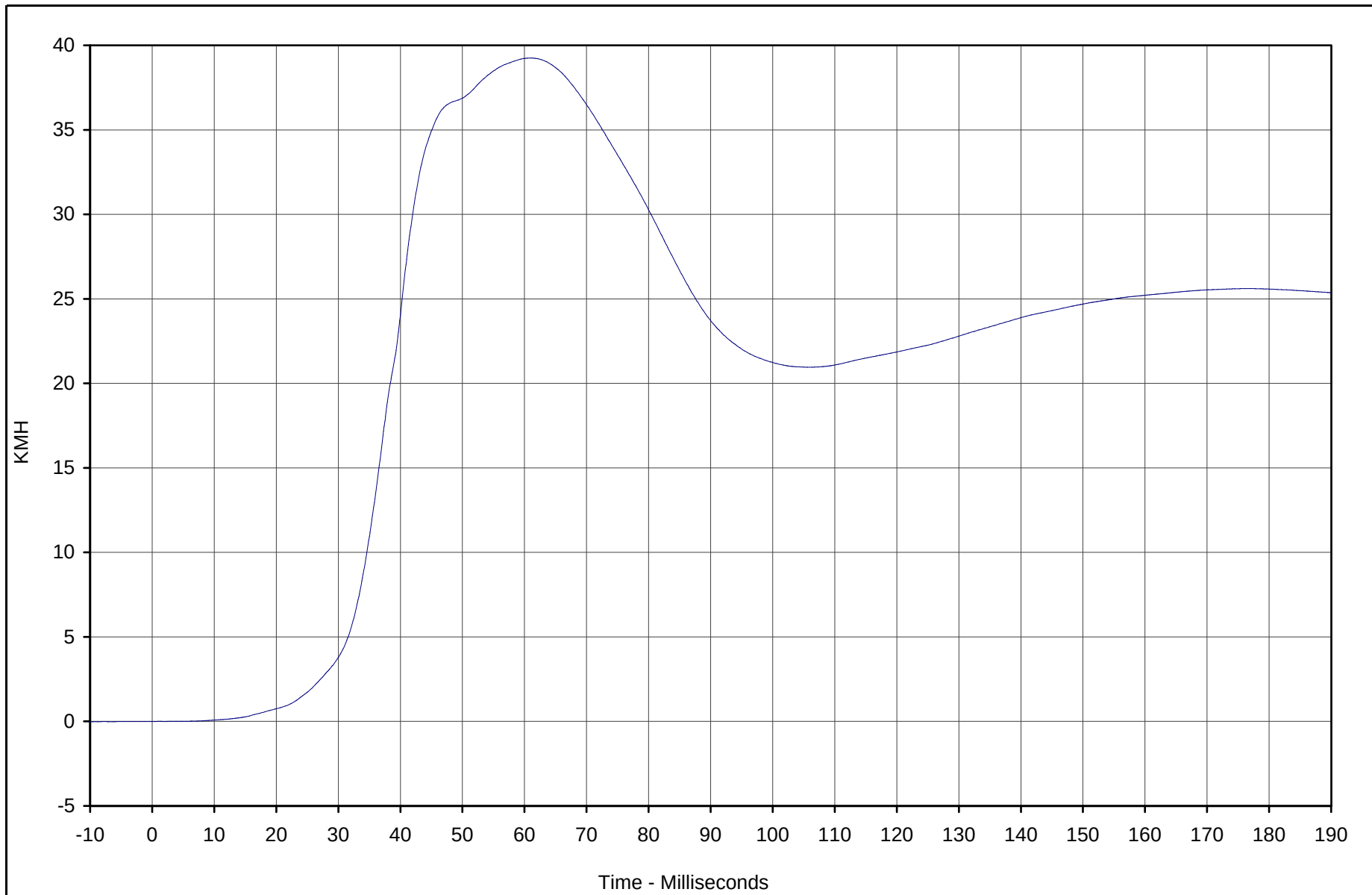


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Pelvis Redundant Y Vel.	042	IN1	KMH	39.2	60.9	0.0	0.0	180

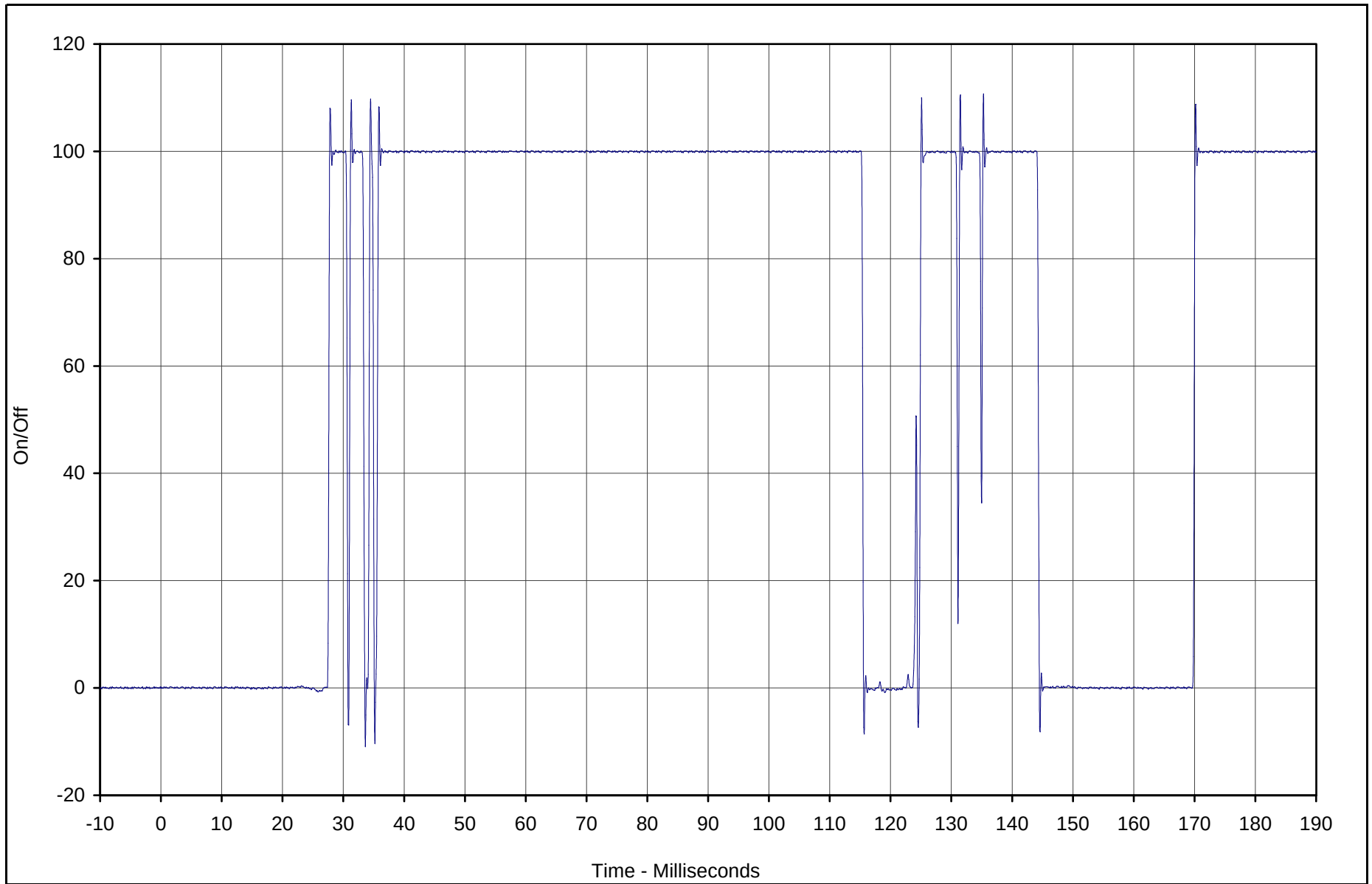


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Cross %	Time	SAE Class
Pass. Thorax Contact	043	FIL	On/Off	110.7	135.3	50.0	27.7	1000

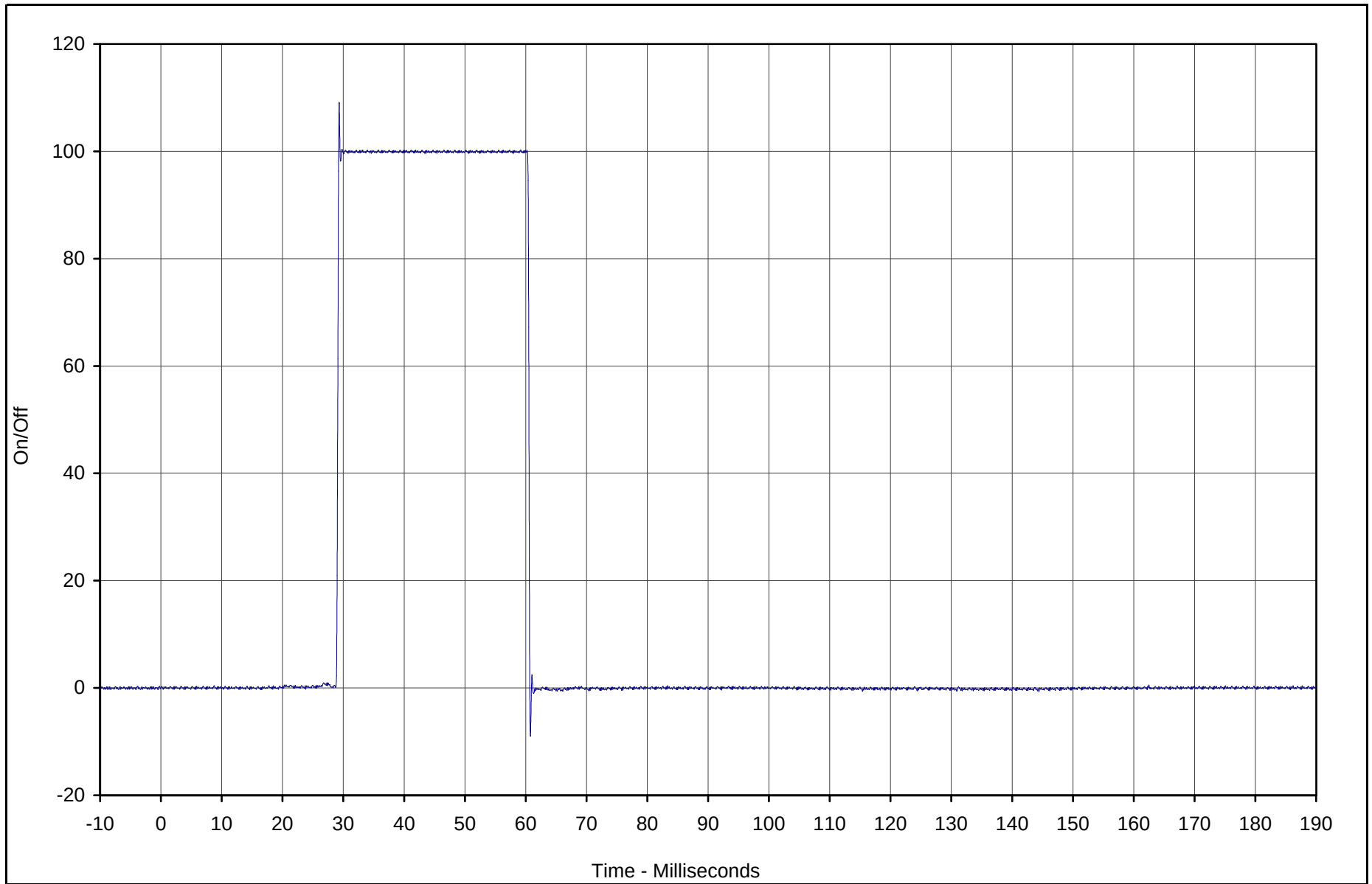


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Cross %	Time	SAE Class
Pass. Pelvis Contact	044	FIL	On/Off	108.9	29.3	50.0	29.1	1000

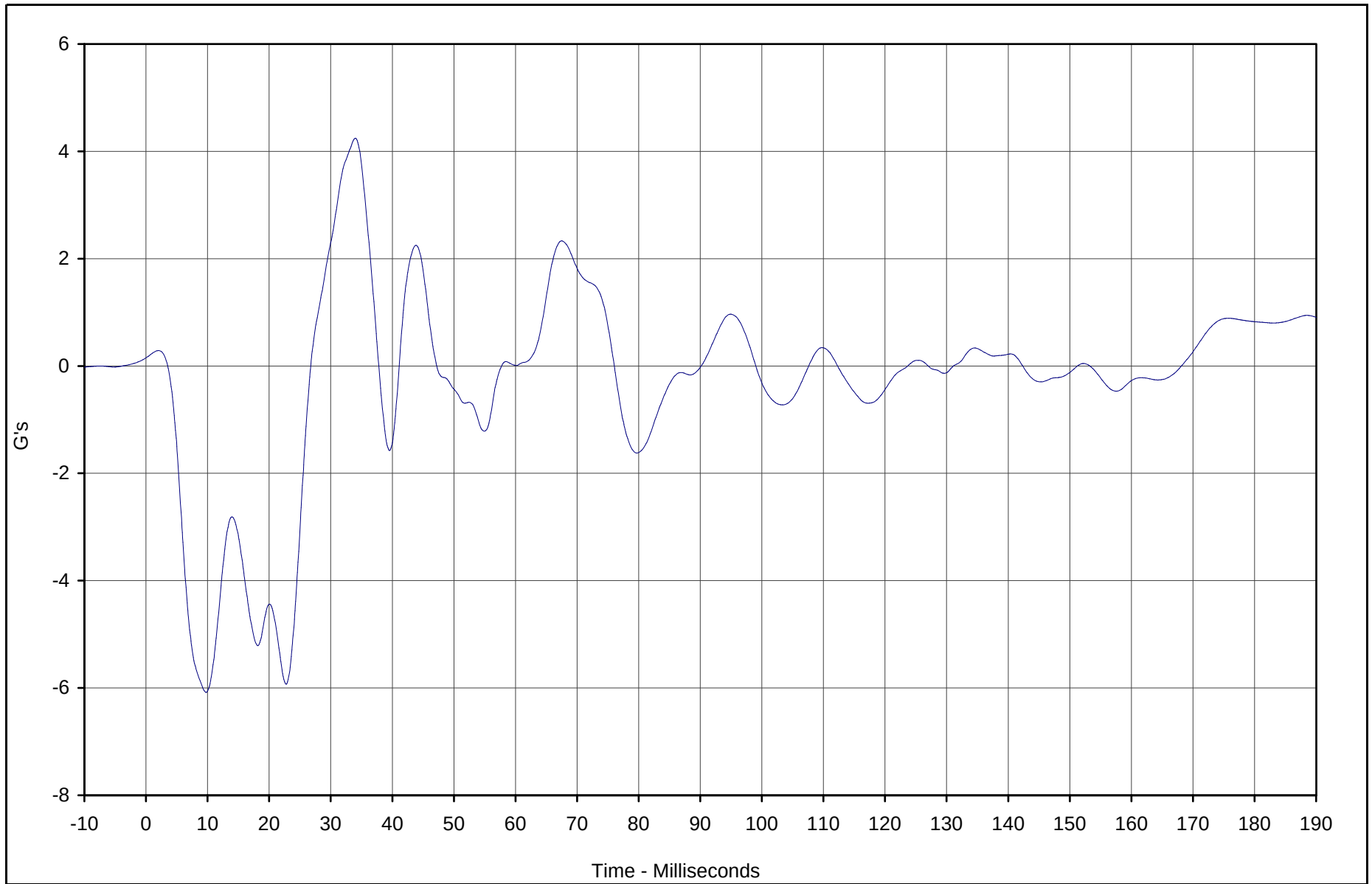


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Right Sill Front Seat X	045	FIL	G's	4.2	34.0	-6.1	9.8	60

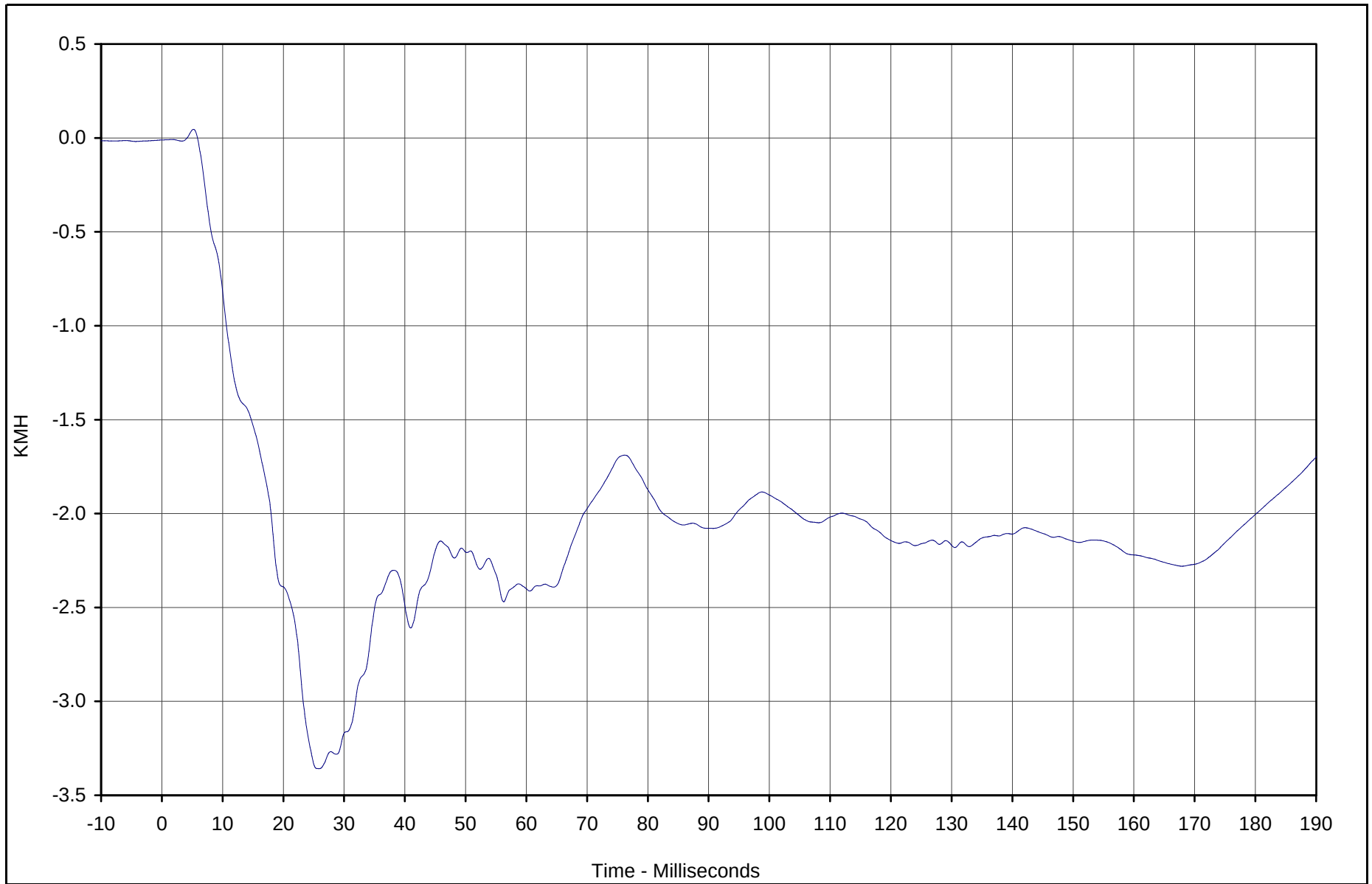


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Right Sill Front Seat X Velocity	045	IN1	KMH	0.0	5.2	-3.4	25.9	180

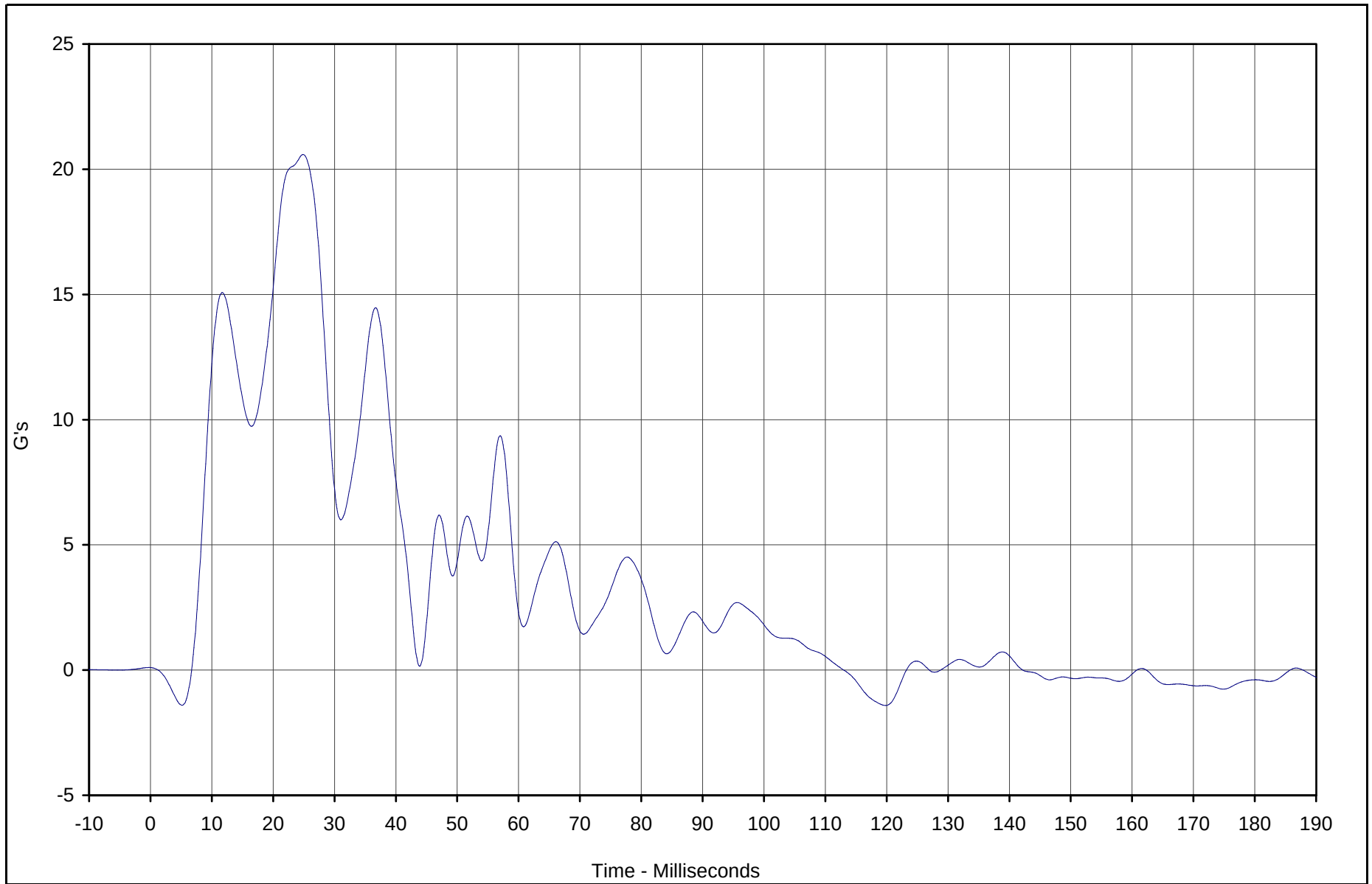


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Right Sill Front Seat Y	046	FIL	G's	20.6	24.9	-1.4	119.8	60

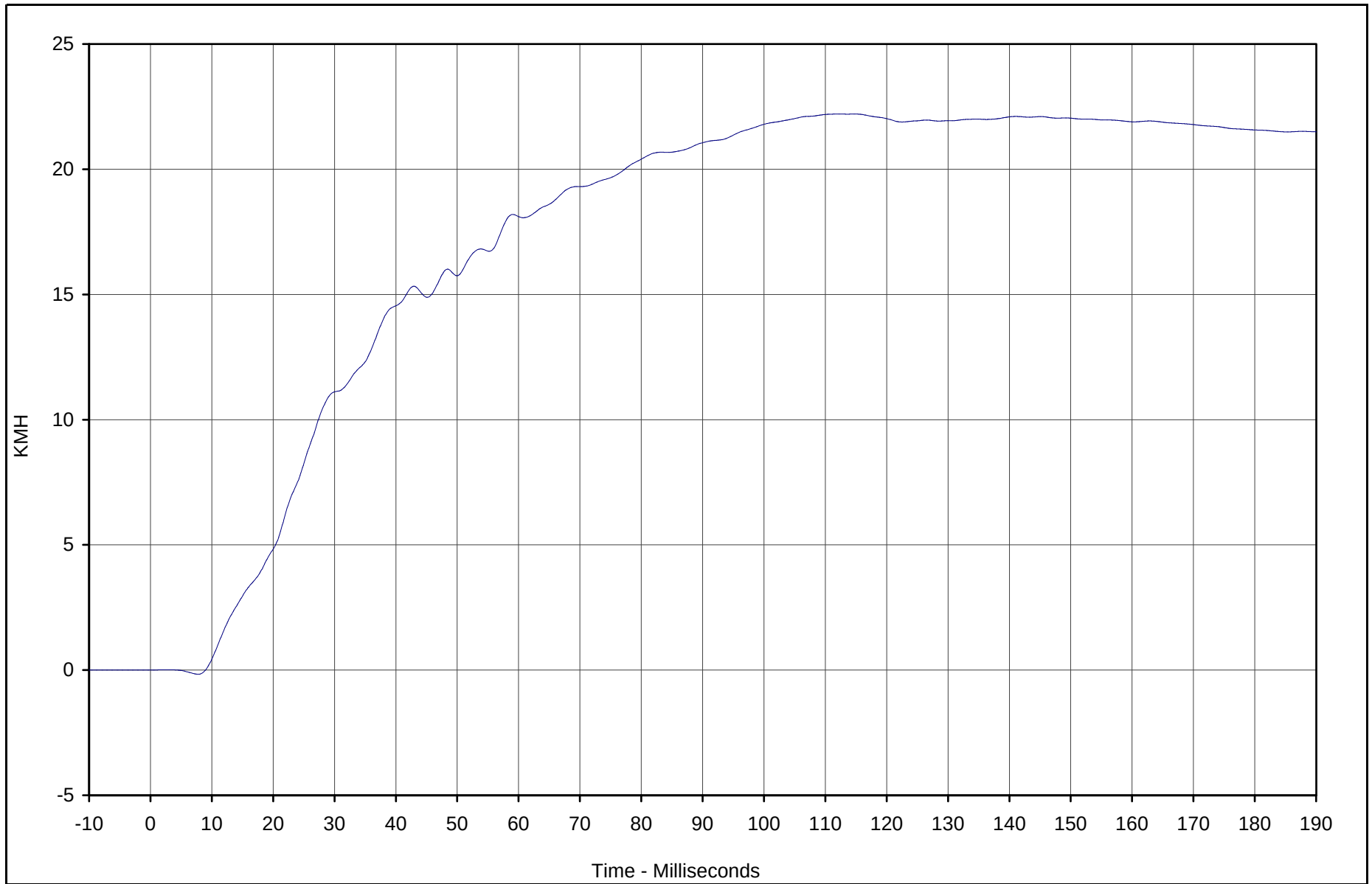


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Right Sill Front Seat Y Velocity	046	IN1	KMH	22.2	112.1	-0.2	7.7	180

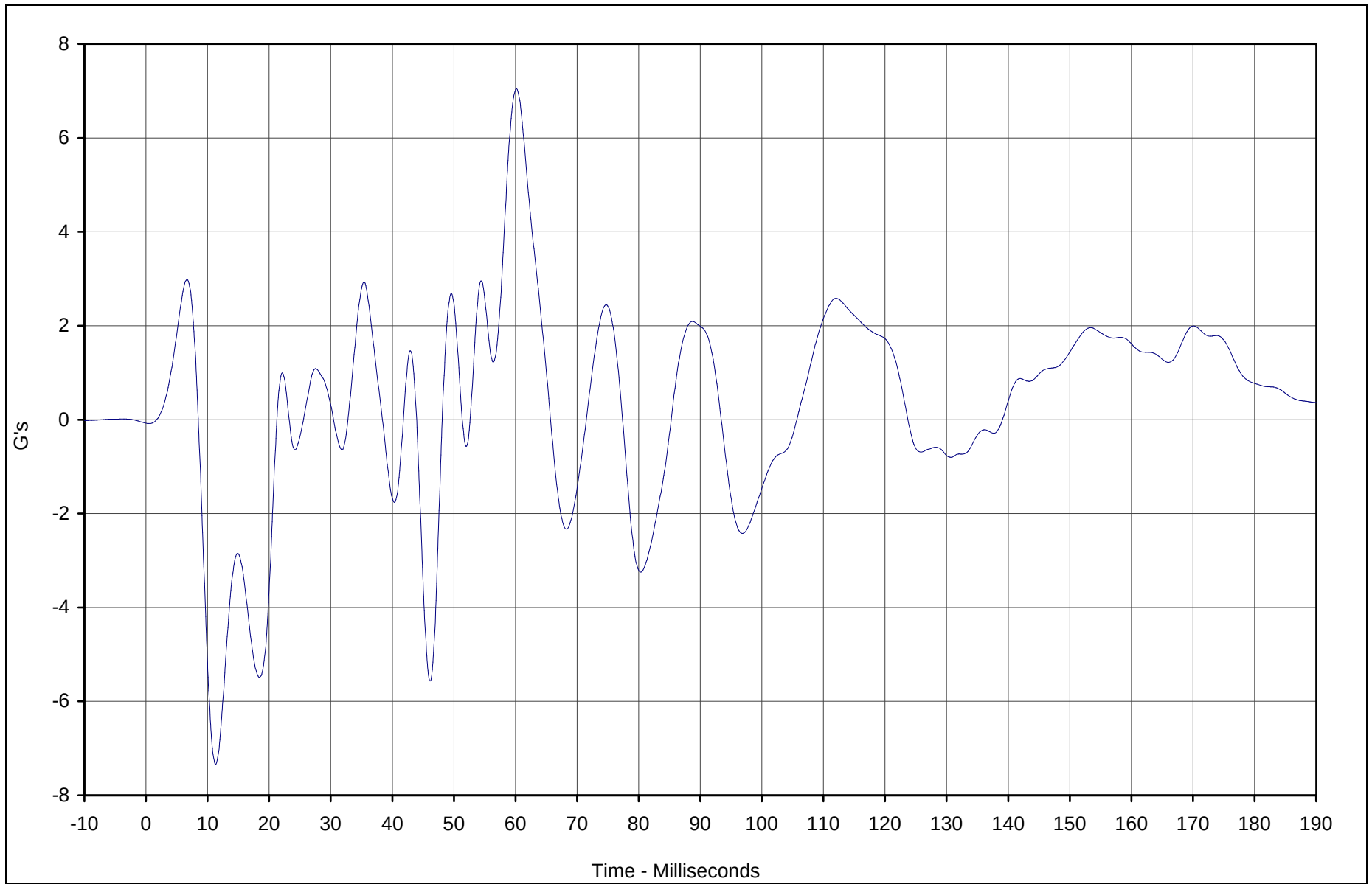


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Right Sill Front Seat Z	047	FIL	G's	7.0	60.2	-7.3	11.3	60

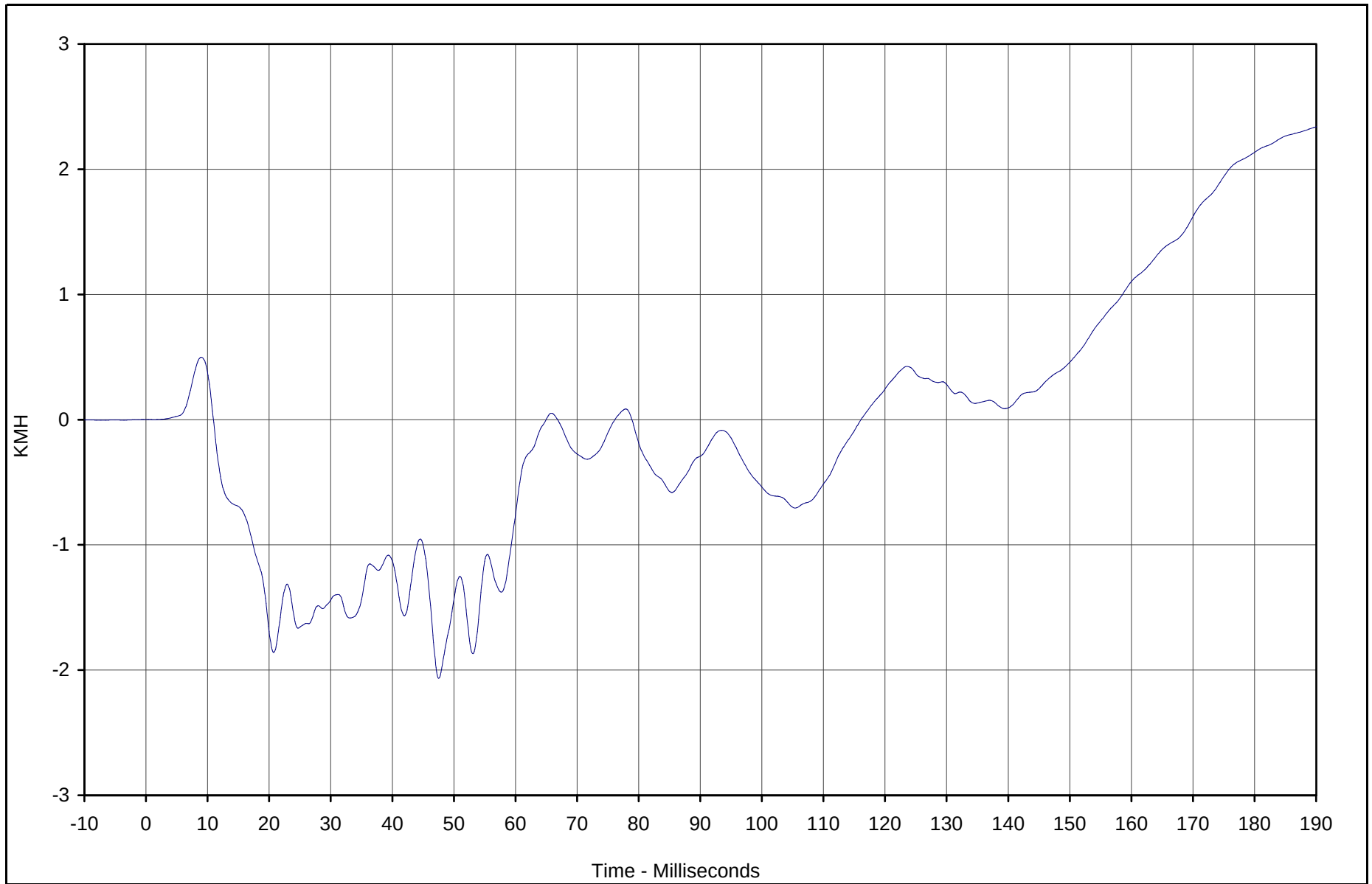


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Right Sill Front Seat Z Velocity	047	IN1	KMH	2.3	189.9	-2.1	47.5	180

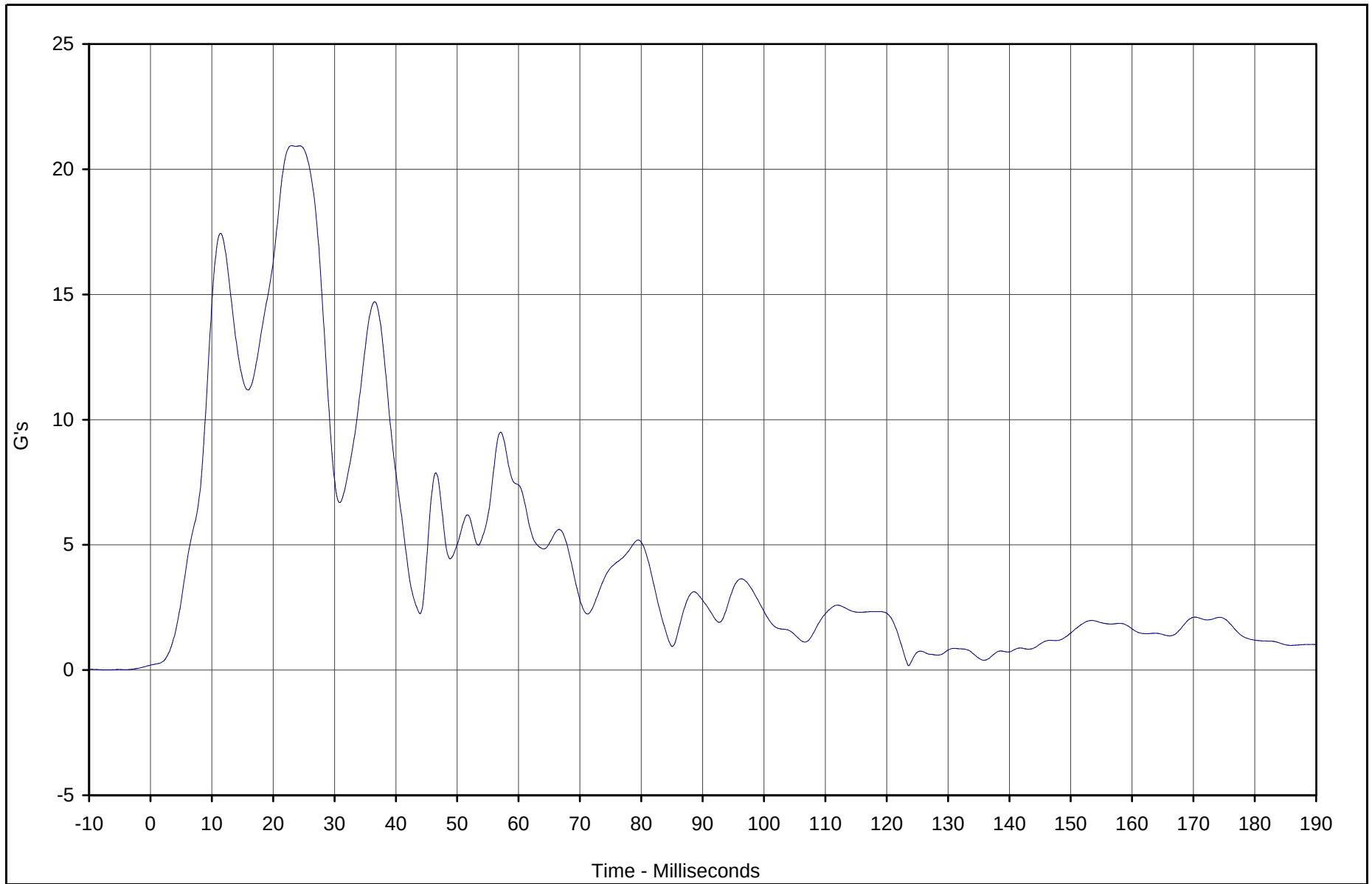


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Right Sill Front Seat Resultant	045	RES	G's	20.9	23.0	0.2	123.6	60

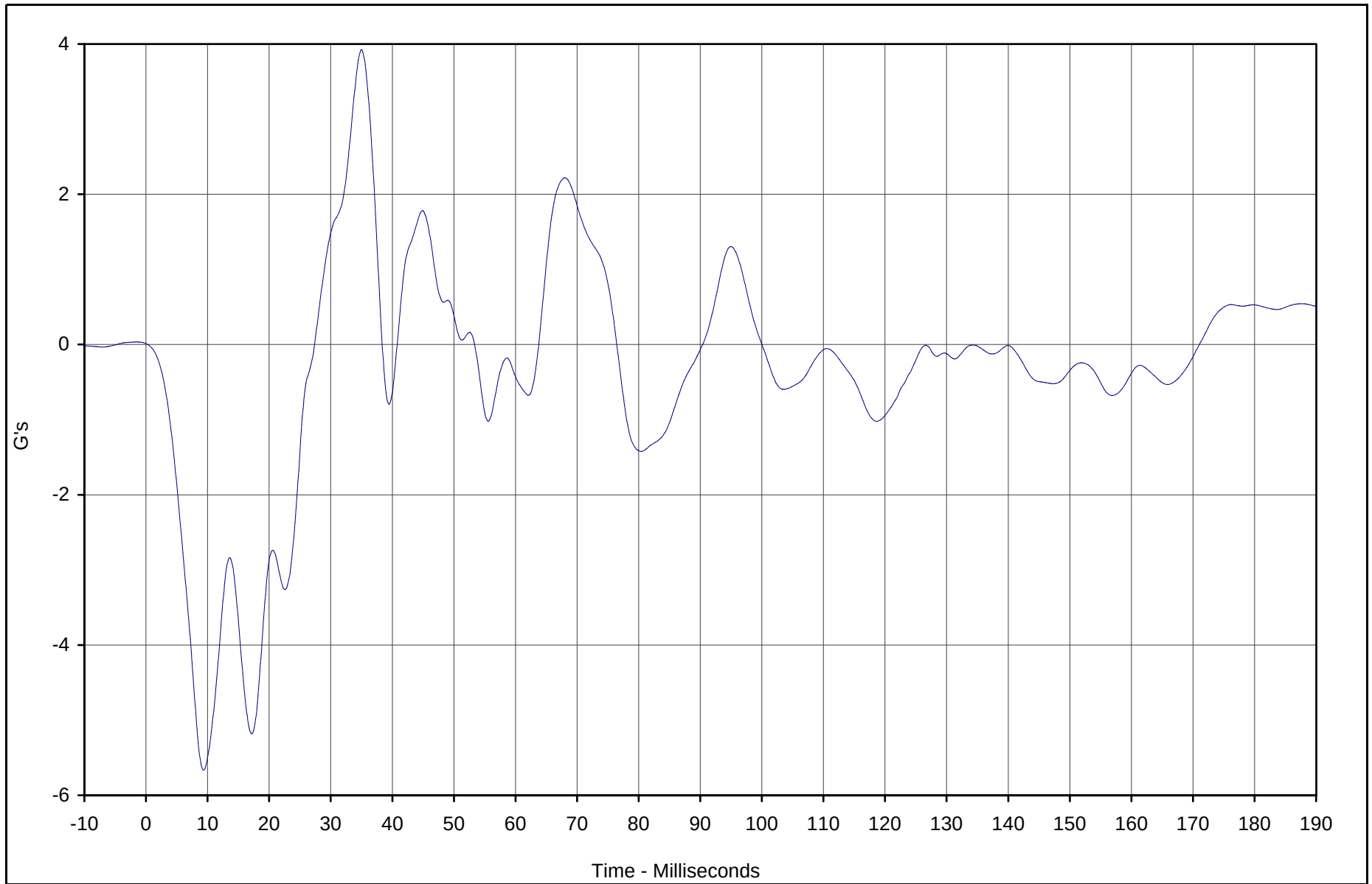


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Right Sill Rear Seat X	048	FIL	G's	3.9	35.0	-5.7	9.3	60

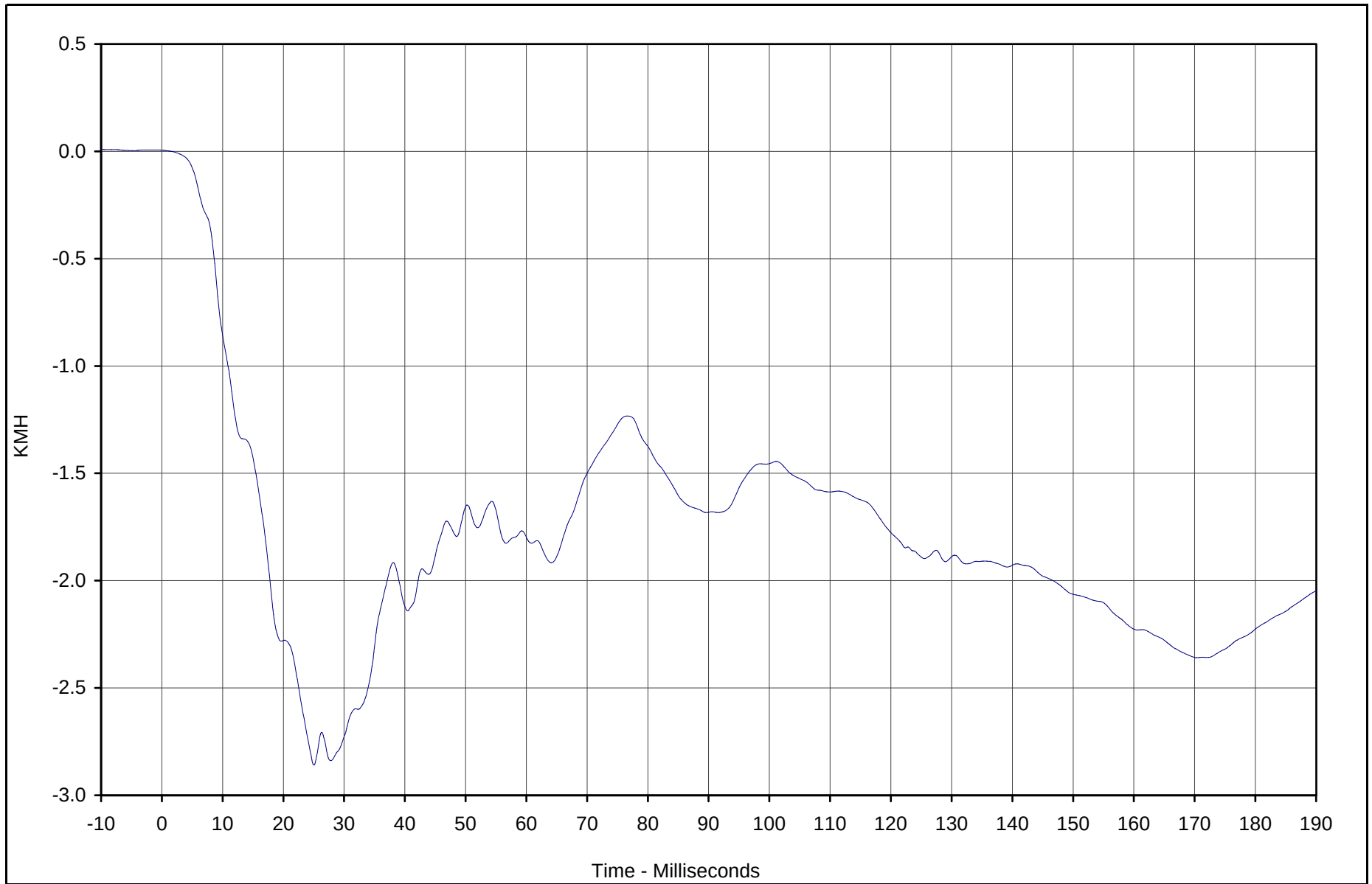


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Right Sill Rear Seat X Velocity	048	IN1	KMH	0.0	0.0	-2.9	25.0	180

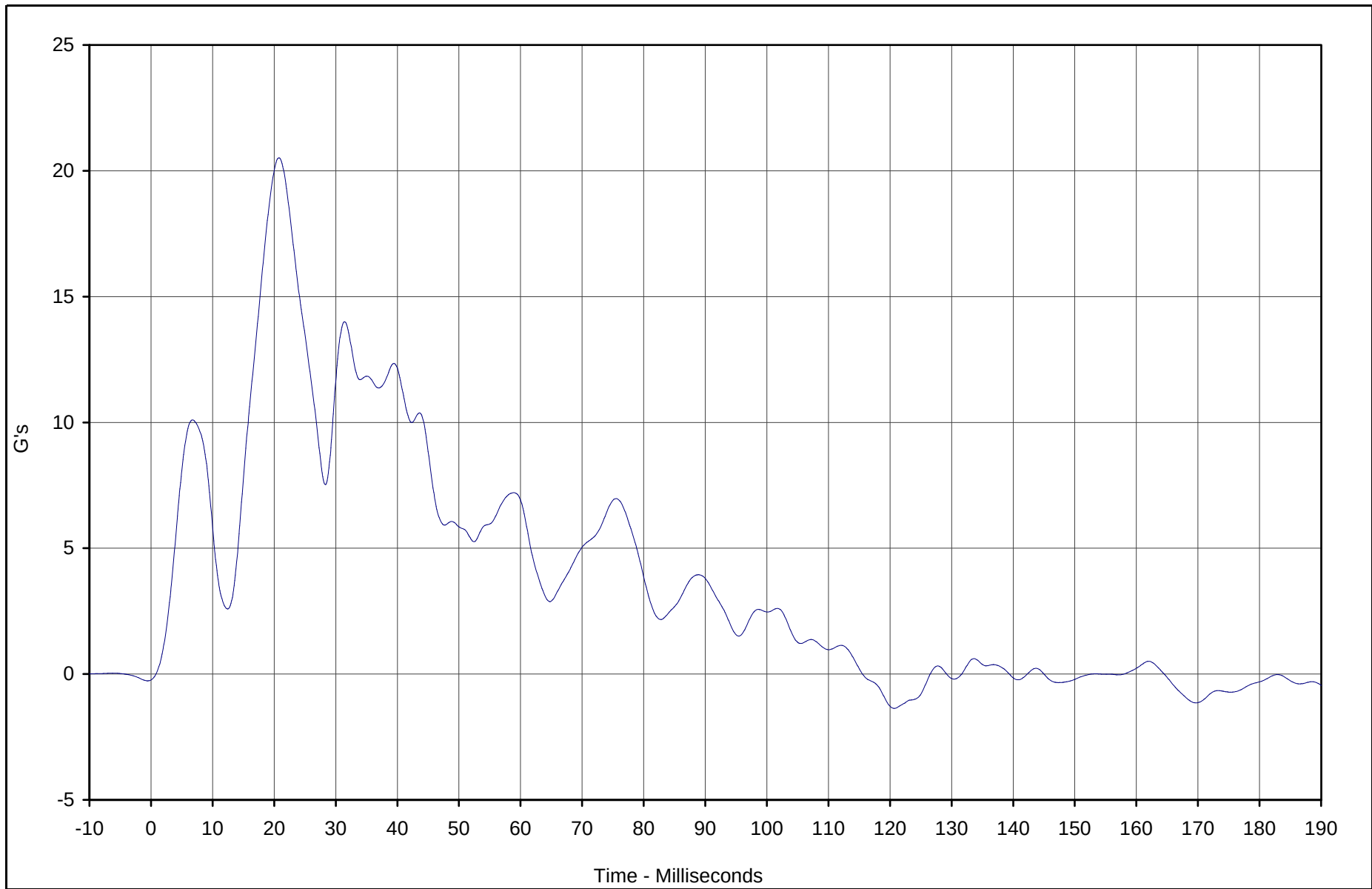


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Right Sill Rear Seat Y	049	FIL	G's	20.5	20.8	-1.4	120.7	60

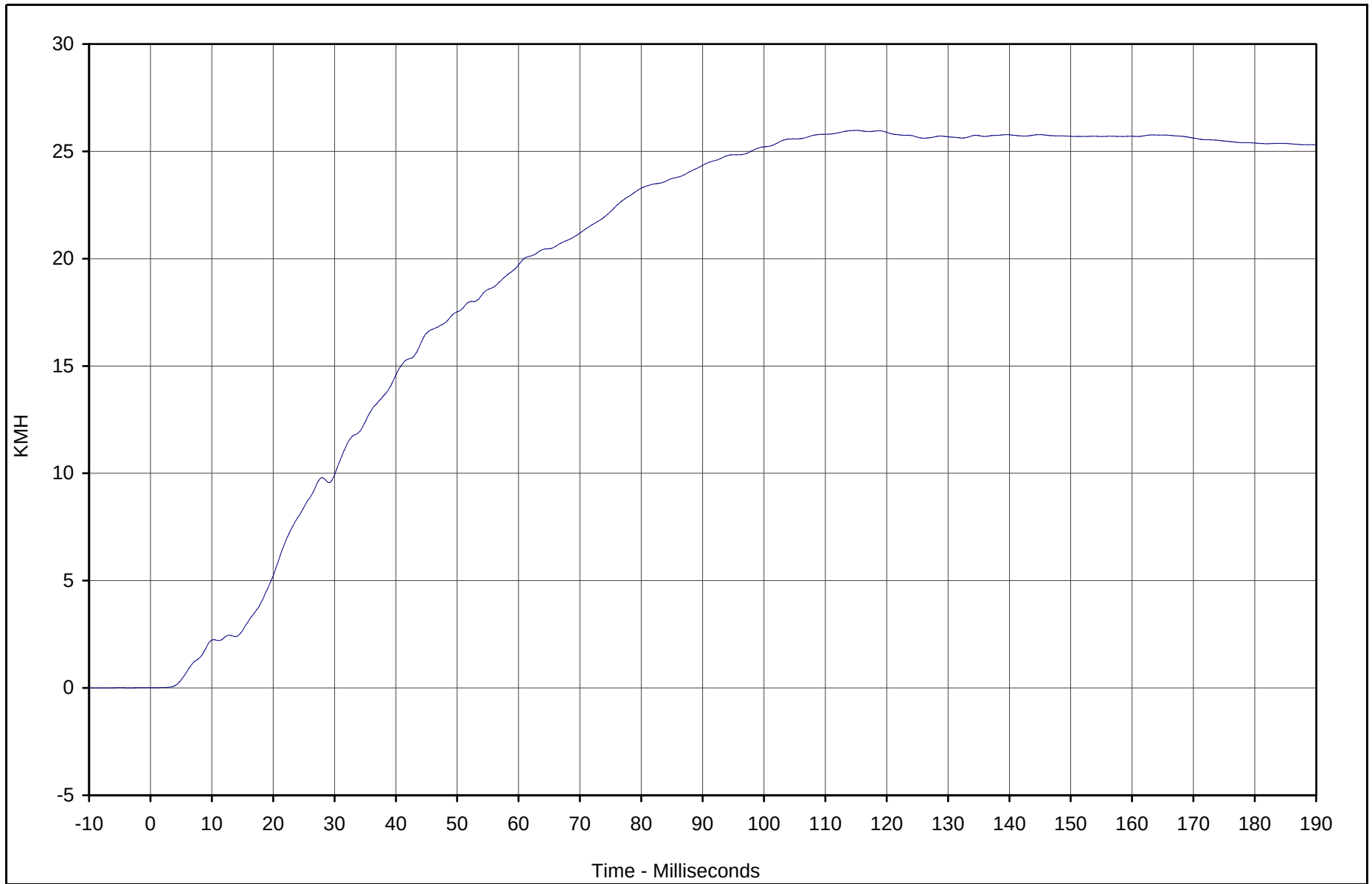


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Right Sill Rear Seat Y Velocity	049	IN1	KMH	26.0	115.0	0.0	0.0	180

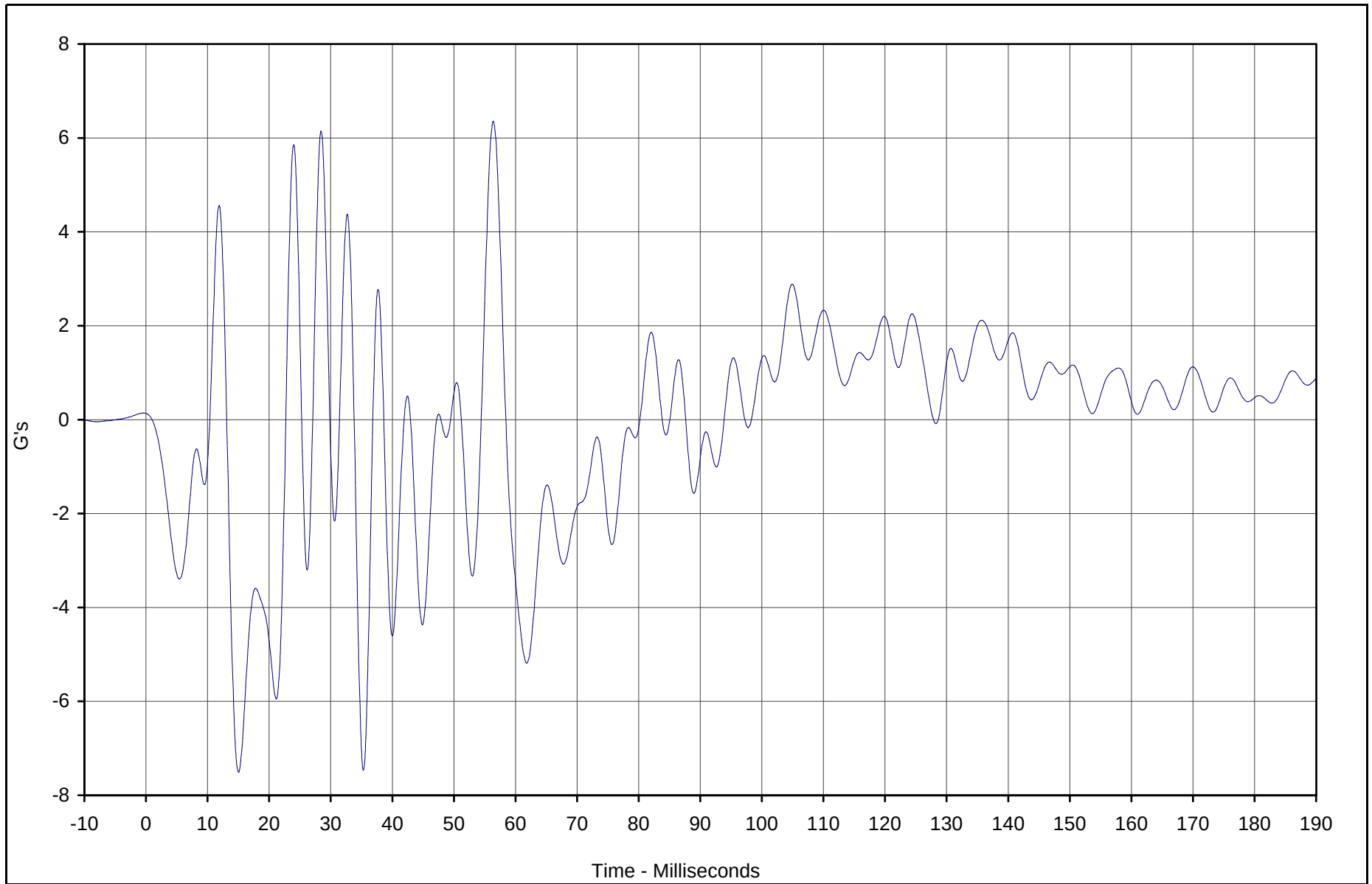


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Right Sill Rear Seat Z	050	FIL	G's	6.4	56.4	-7.5	15.0	60

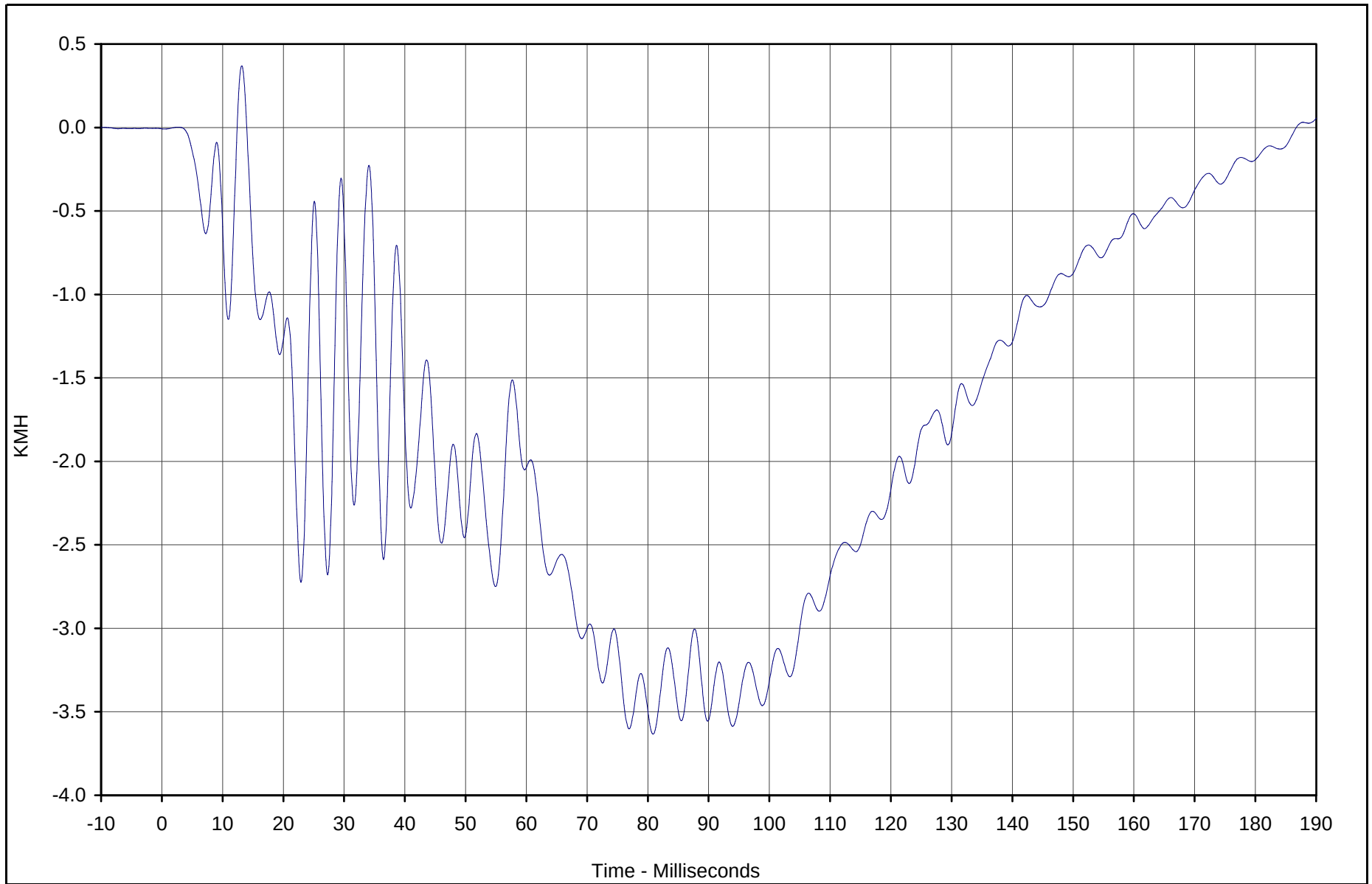


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Right Sill Rear Seat Z Velocity	050	IN1	KMH	0.4	13.2	-3.6	80.9	180

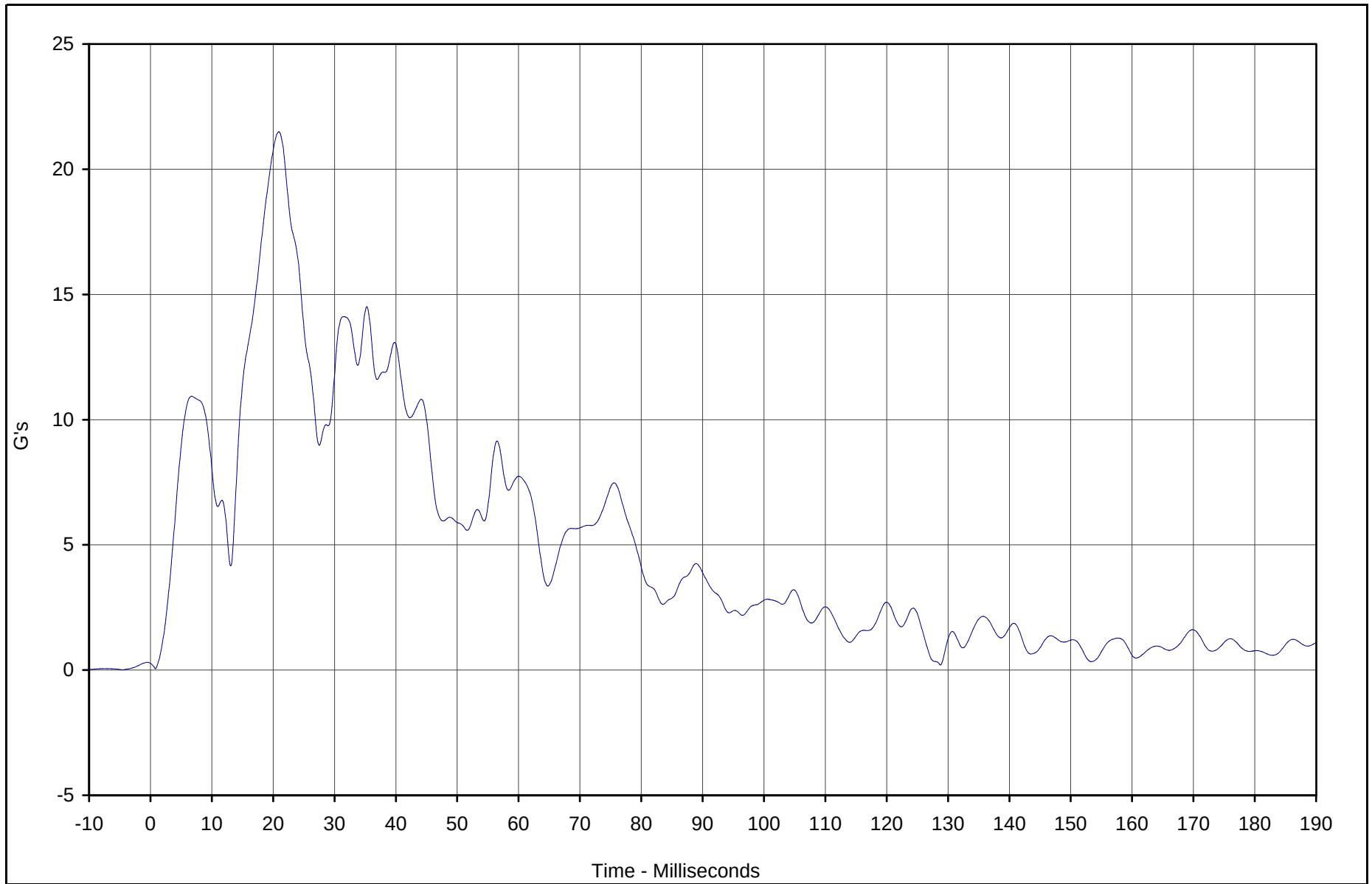


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Right Sill Rear Seat Resultant	048	RES	G's	21.5	20.9	0.1	0.8	60

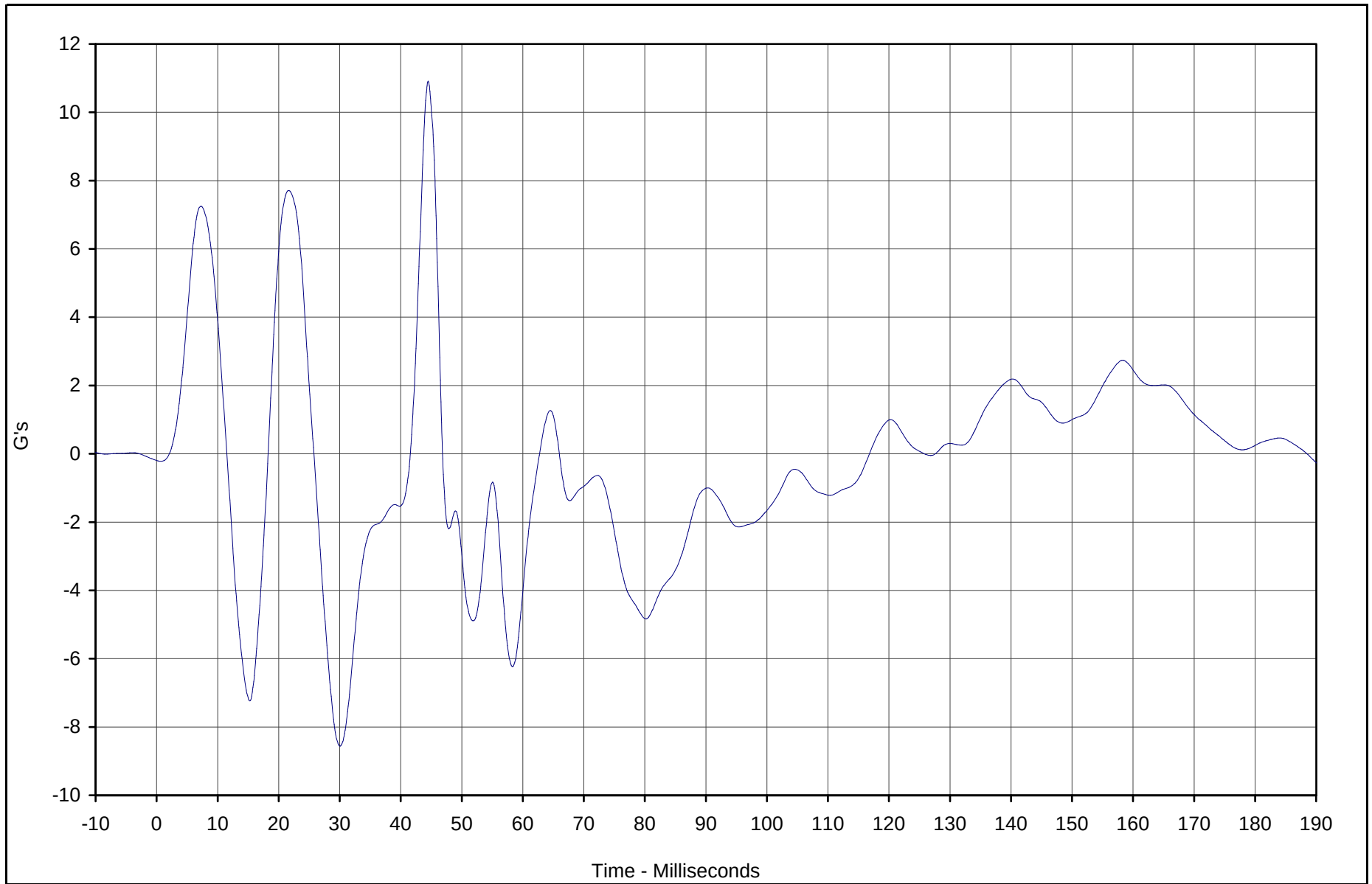


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Rear Floor Above Axle X	051	FIL	G's	10.9	44.5	-8.6	30.1	60

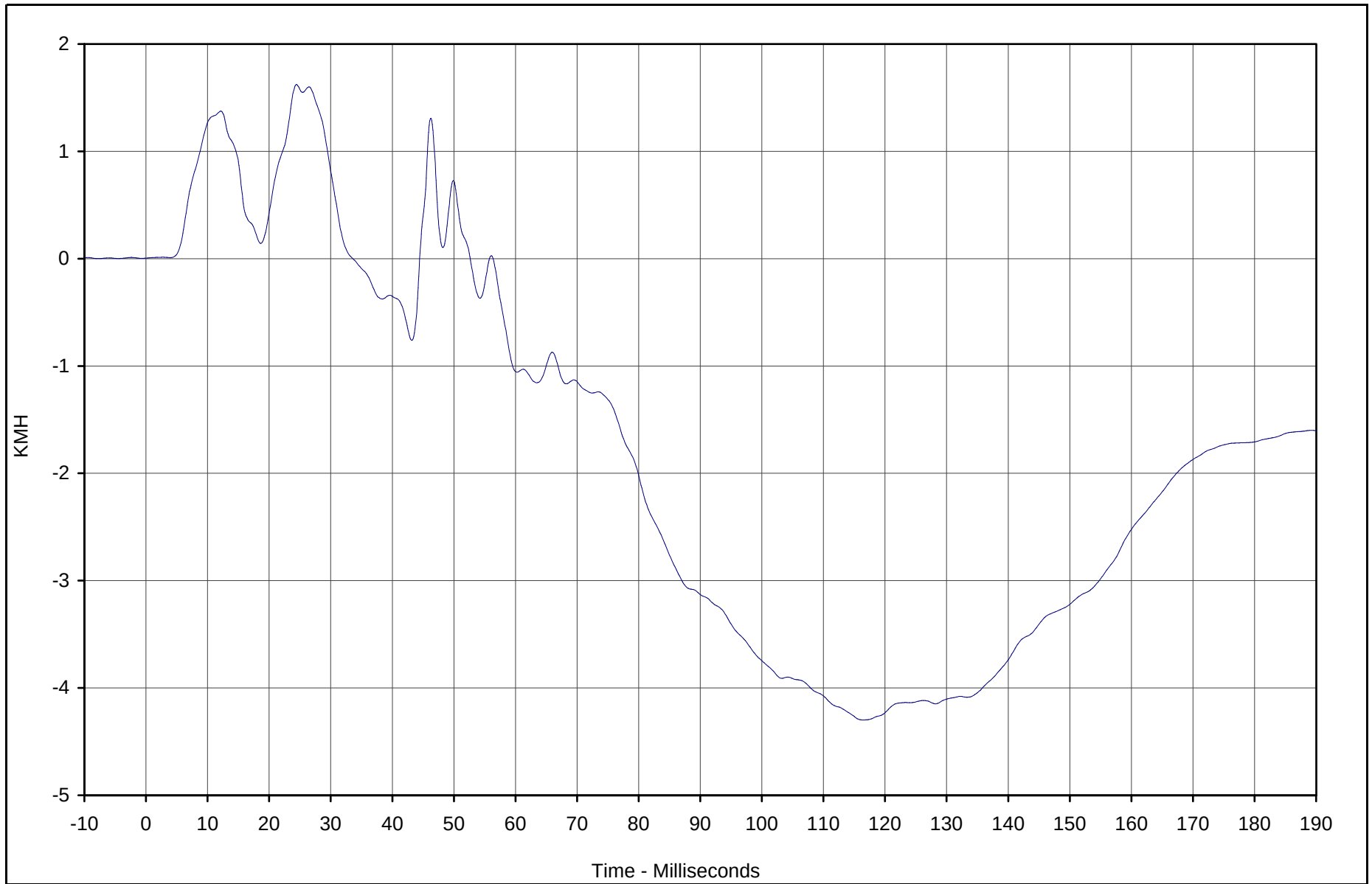


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Rear Floor Above Axle X Velocity	051	IN1	KMH	1.6	24.4	-4.3	116.4	180

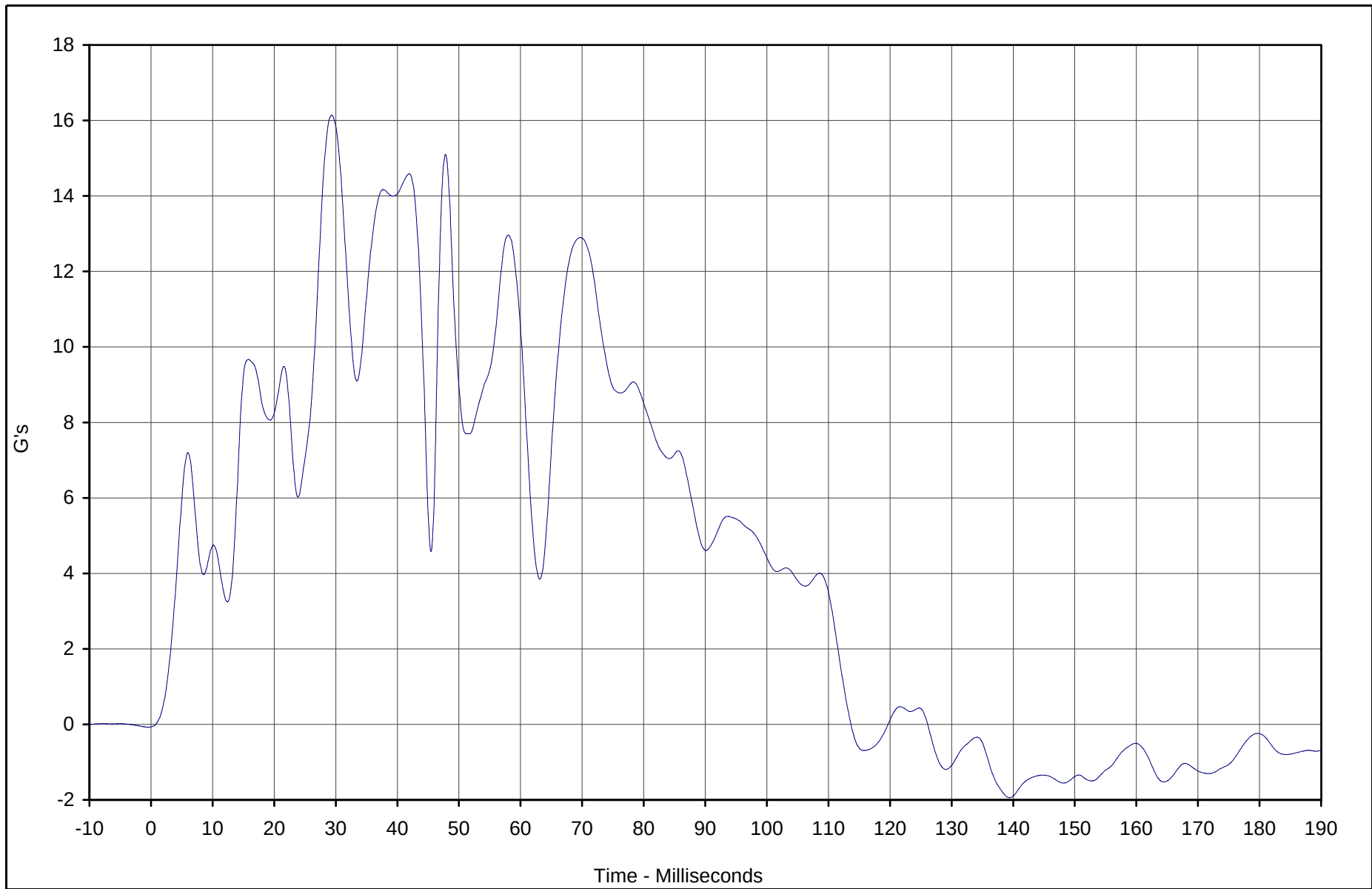


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Rear Floor Above Axle Y	052	FIL	G's	16.1	29.3	-1.9	139.4	60

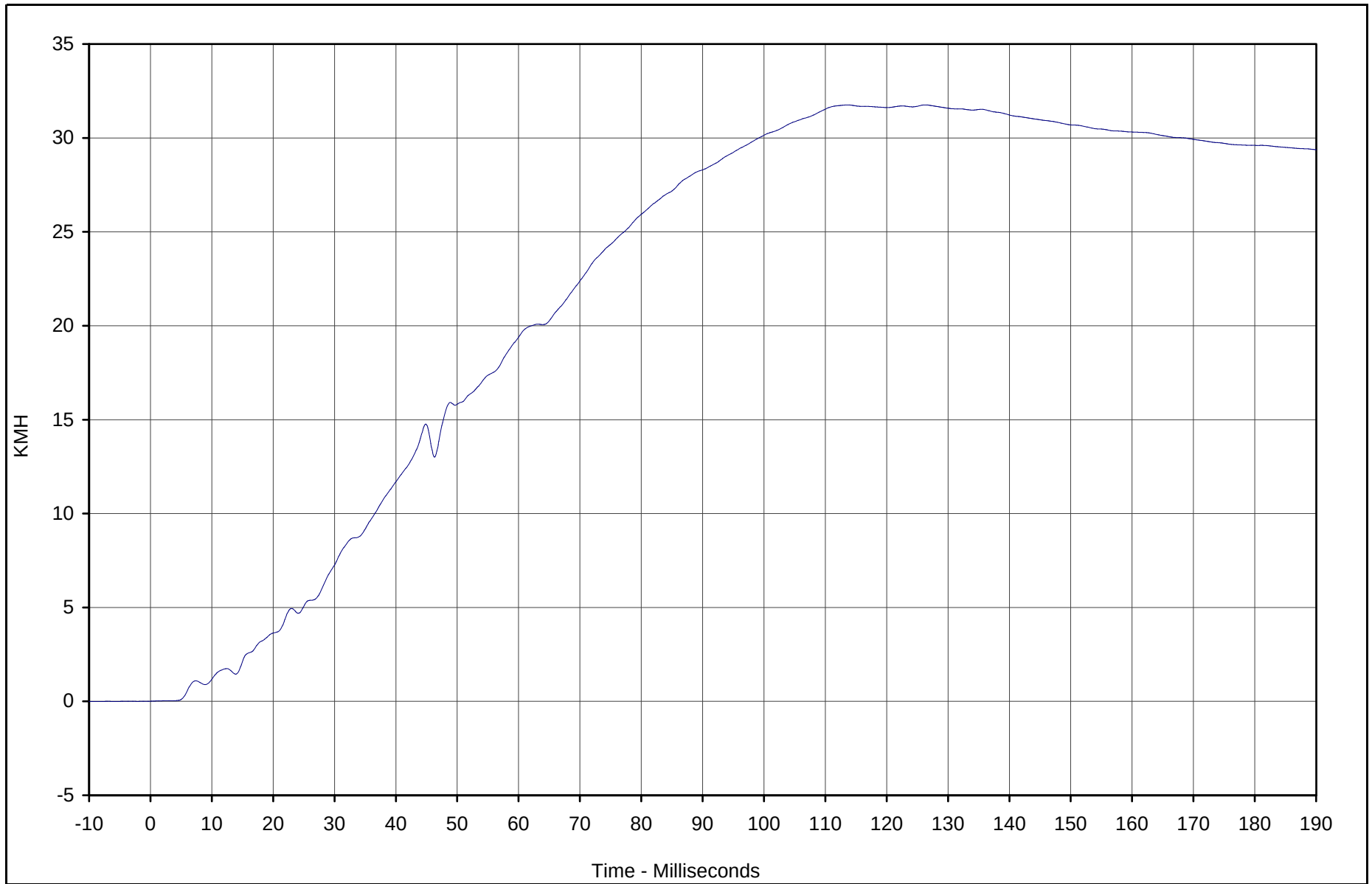


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Rear Floor Above Axle Y Velocity	052	IN1	KMH	31.8	126.3	0.0	0.0	180

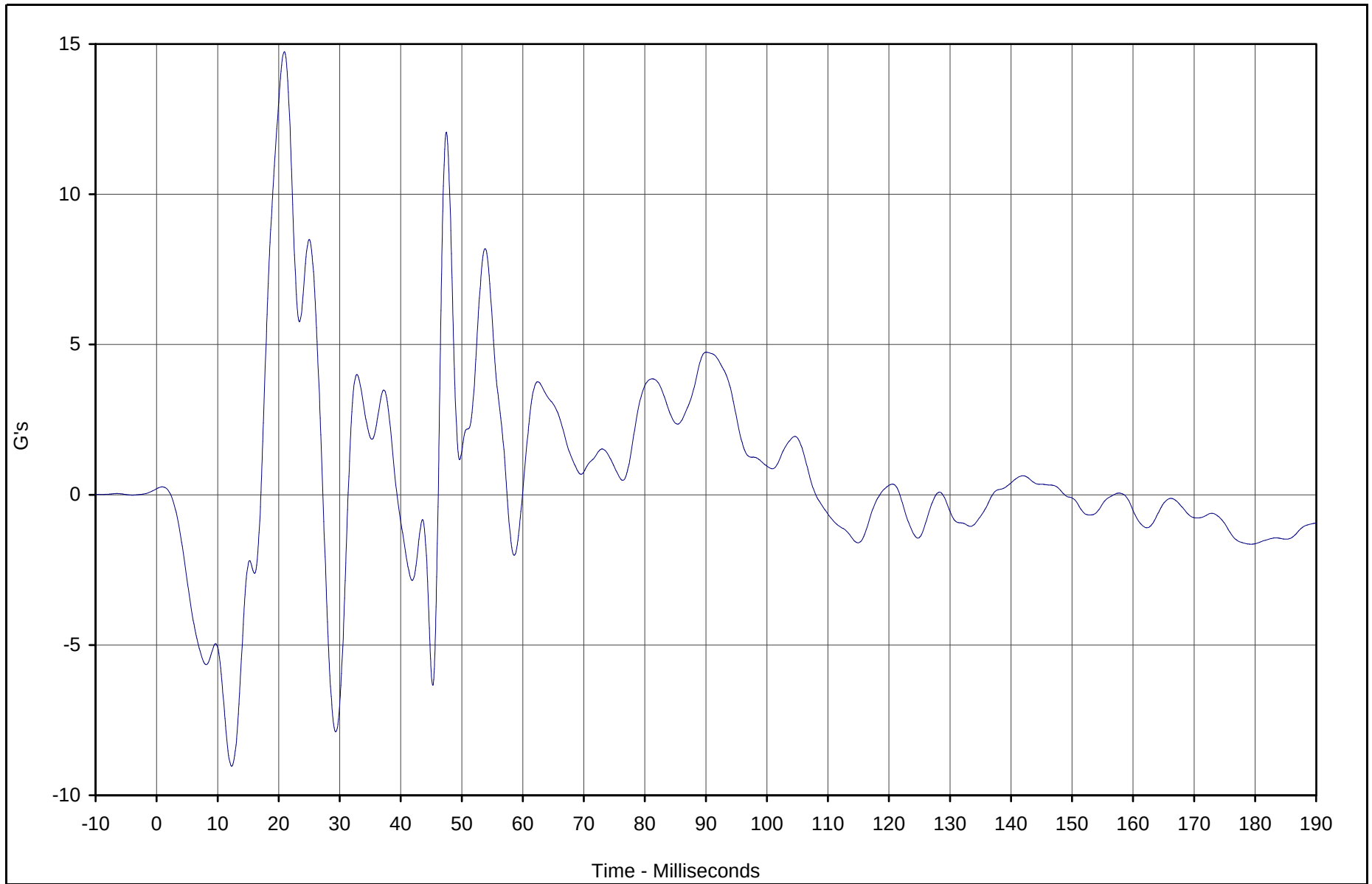


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Rear Floor Above Axle Z	053	FIL	G's	14.7	20.9	-9.0	12.3	60

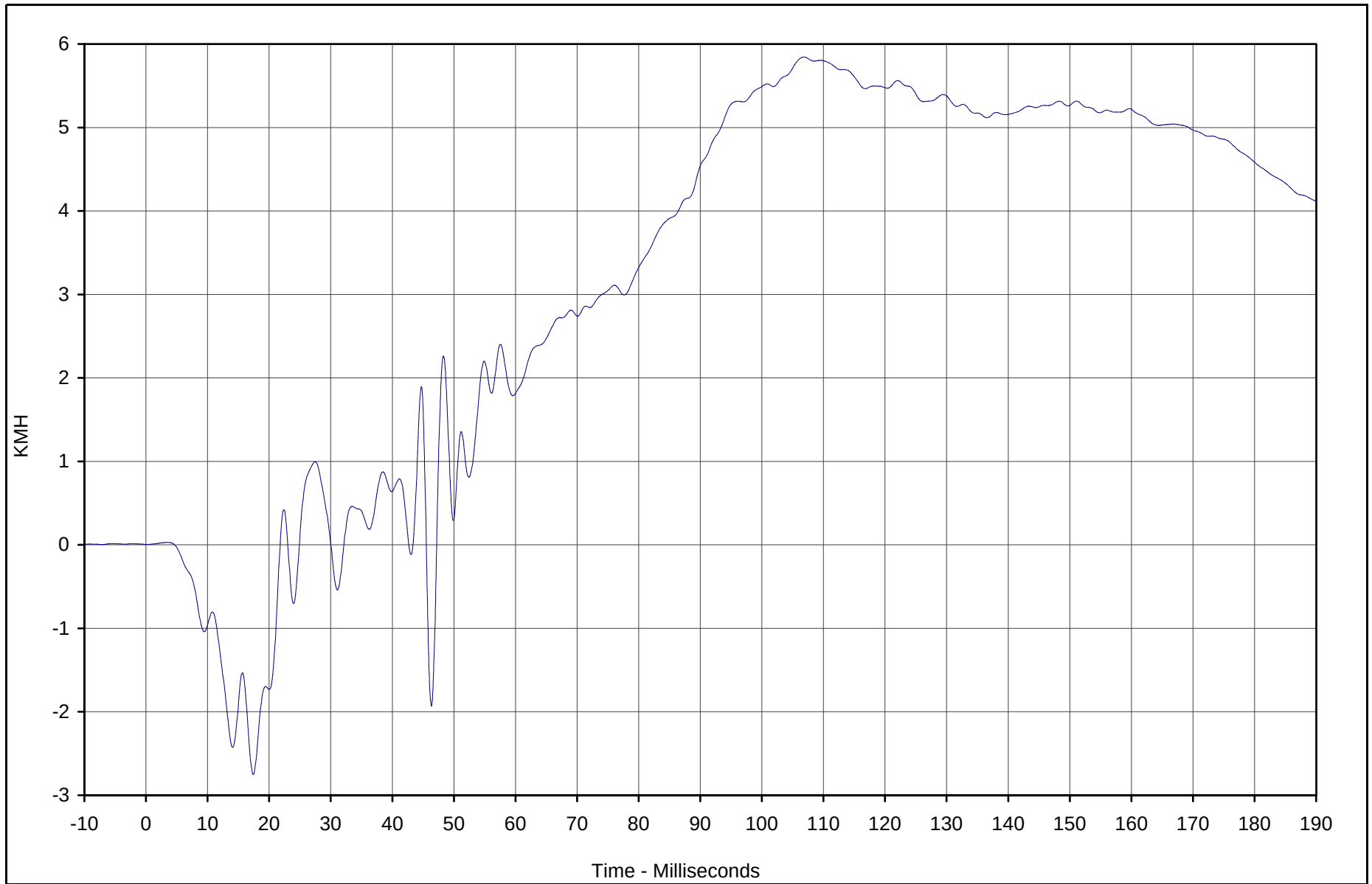


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Rear Floor Above Axle Z Velocity	053	IN1	KMH	5.8	106.8	-2.8	17.4	180

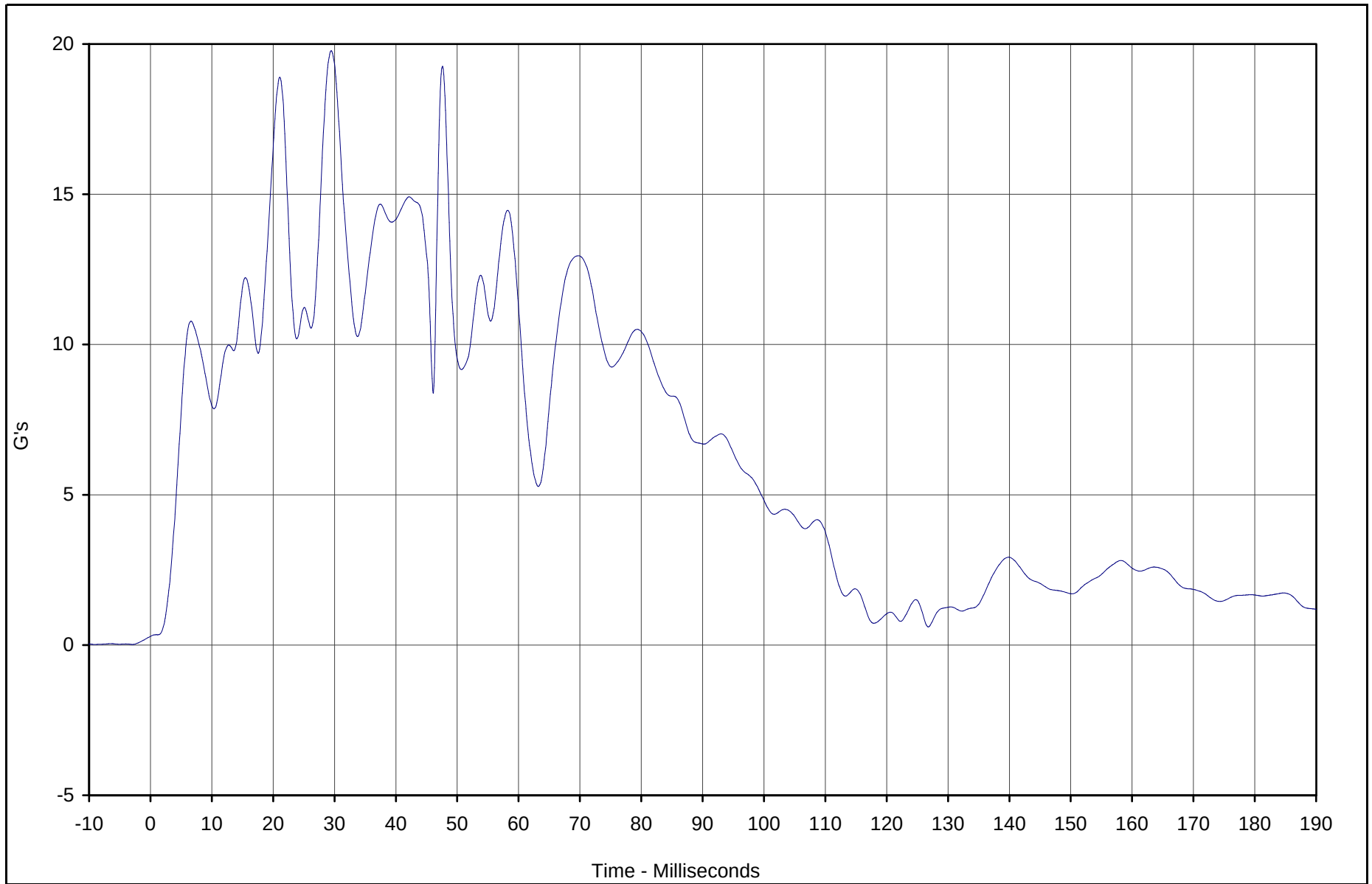


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Rear Floor Above Axle Resultant	051	RES	G's	19.8	29.5	0.3	0.0	60

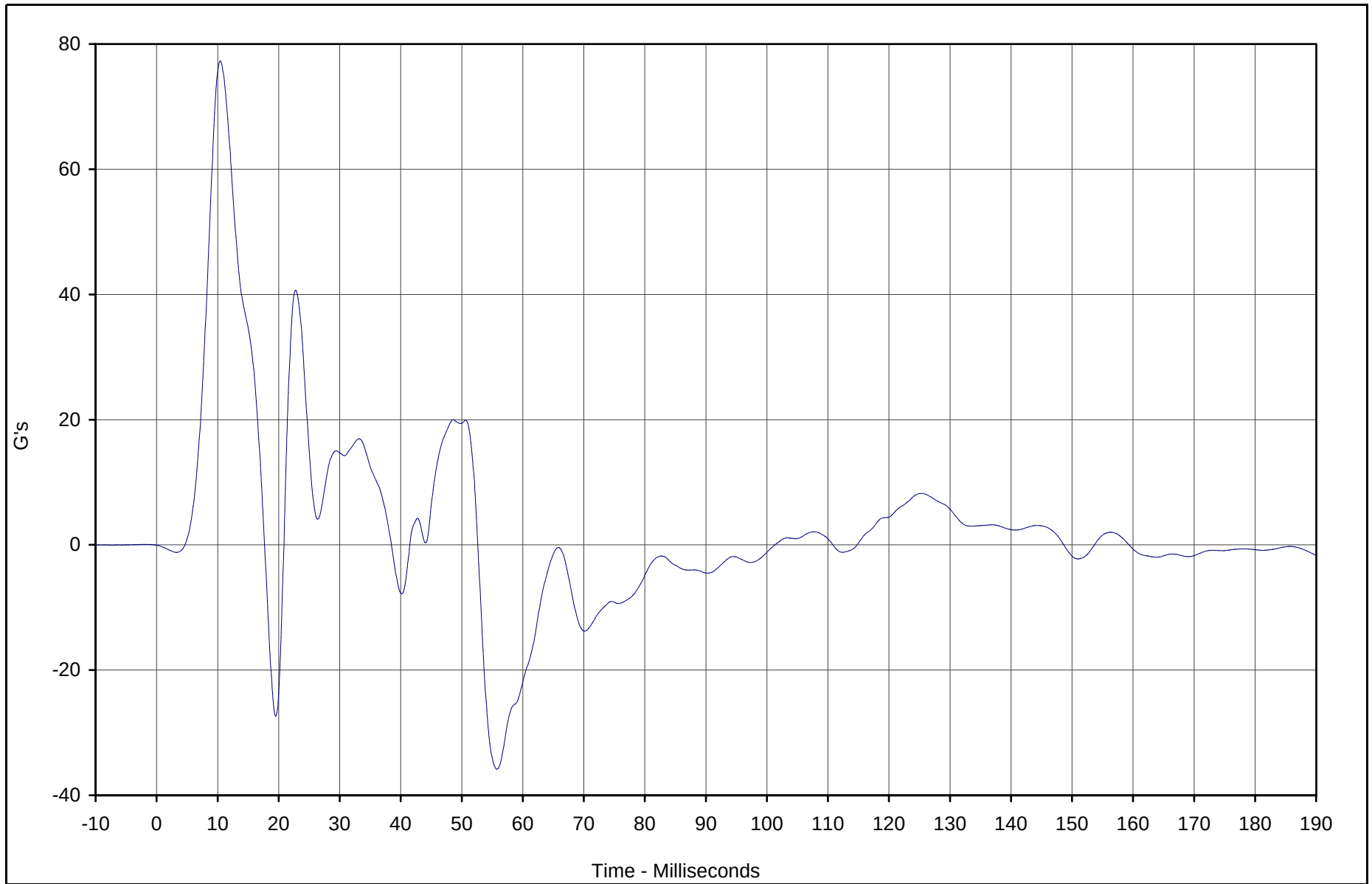


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Left Sill Rear Door Y	054	FIL	G's	77.3	10.4	-35.8	55.8	60

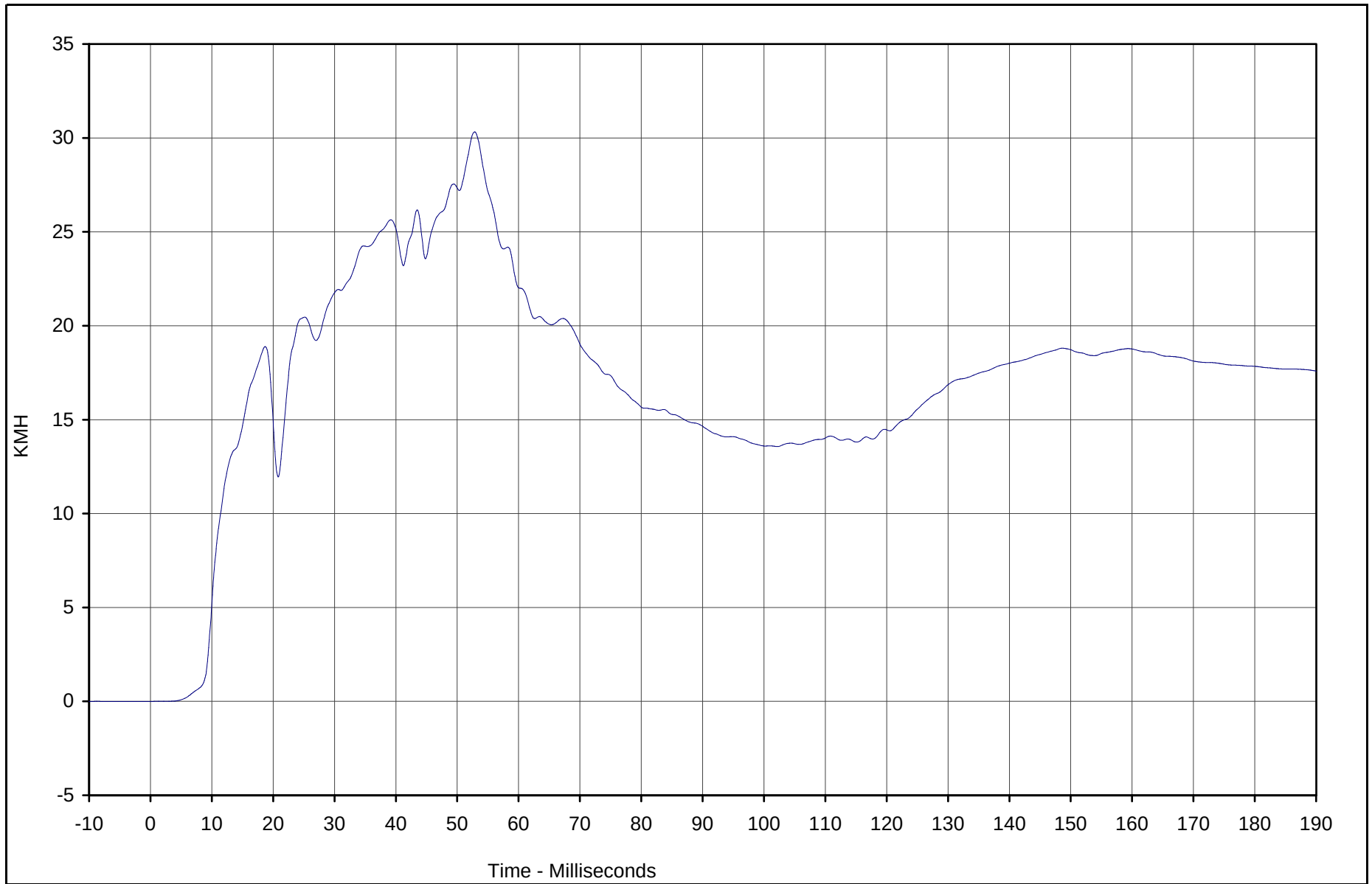


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Left Sill Rear Door Y Velocity	054	IN1	KMH	30.3	52.8	0.0	0.0	180

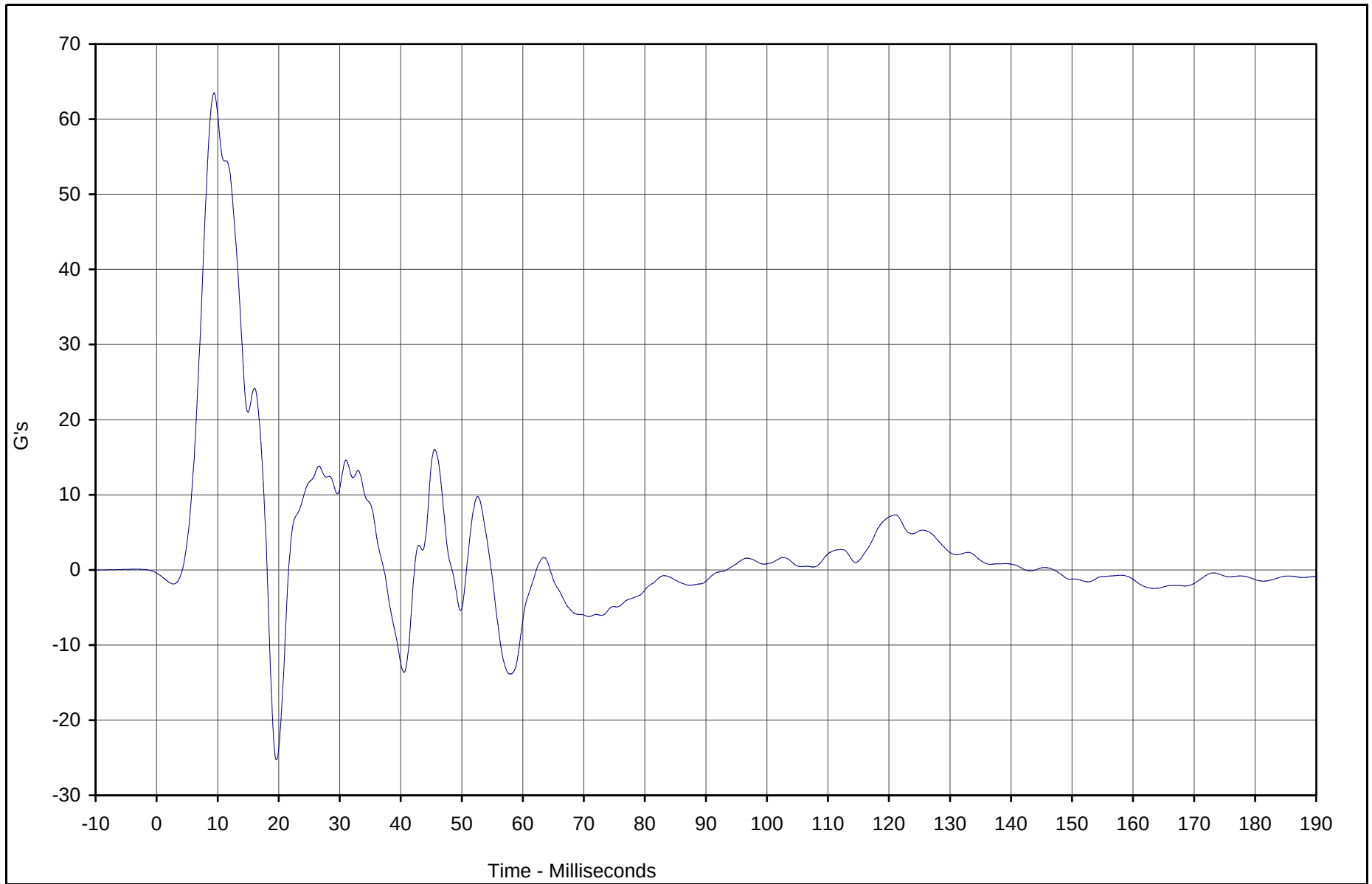


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Left Sill Front Door Y	055	FIL	G's	63.5	9.4	-25.3	19.6	60

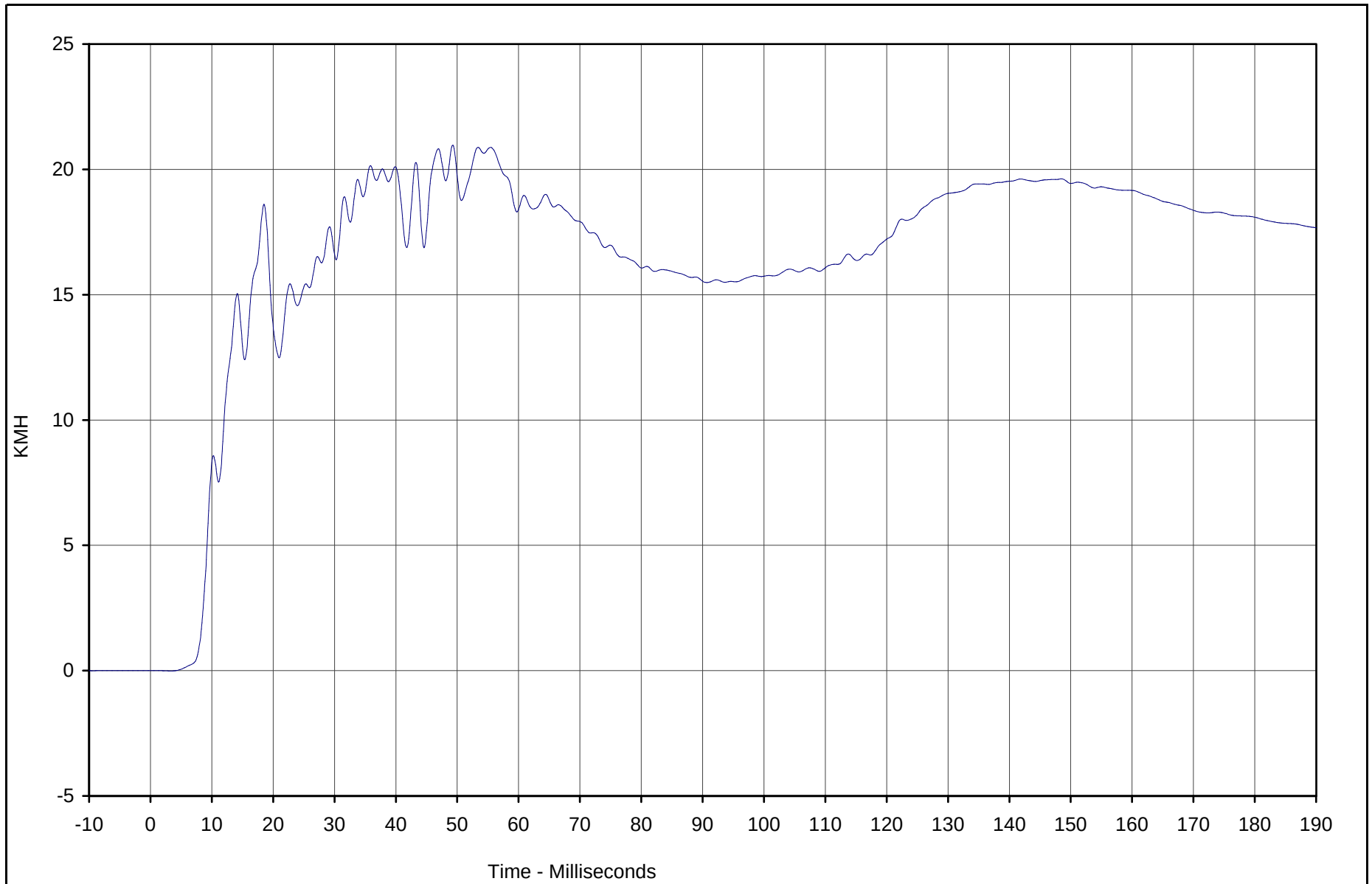


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Left Sill Front Door Y Velocity	055	IN1	KMH	21.0	49.3	0.0	3.3	180

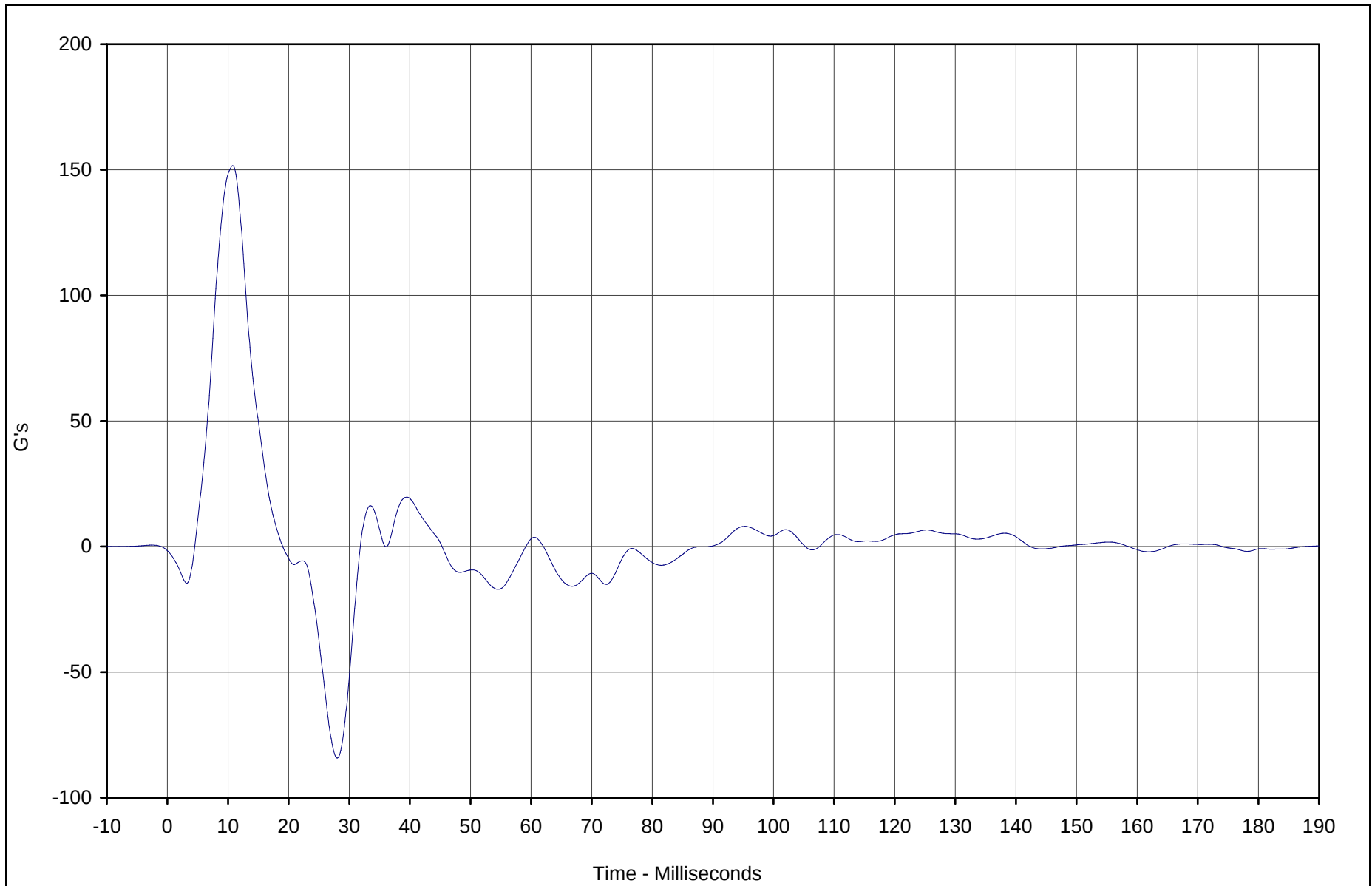


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Left Front Door CL Y	056	FIL	G's	151.6	10.8	-84.2	28.0	60

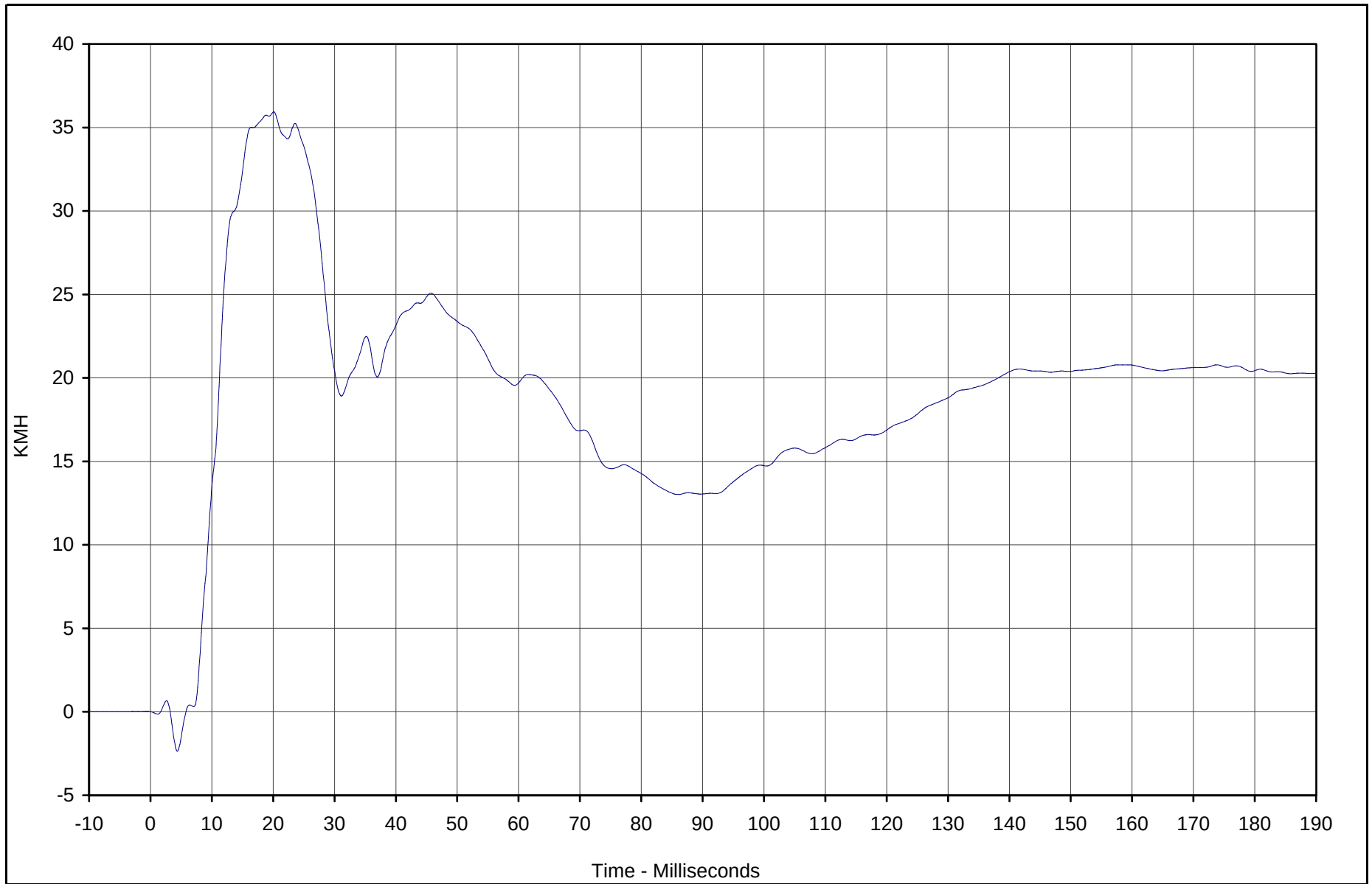


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Left Front Door CL Y Velocity	056	IN1	KMH	35.9	20.1	-2.4	4.4	180

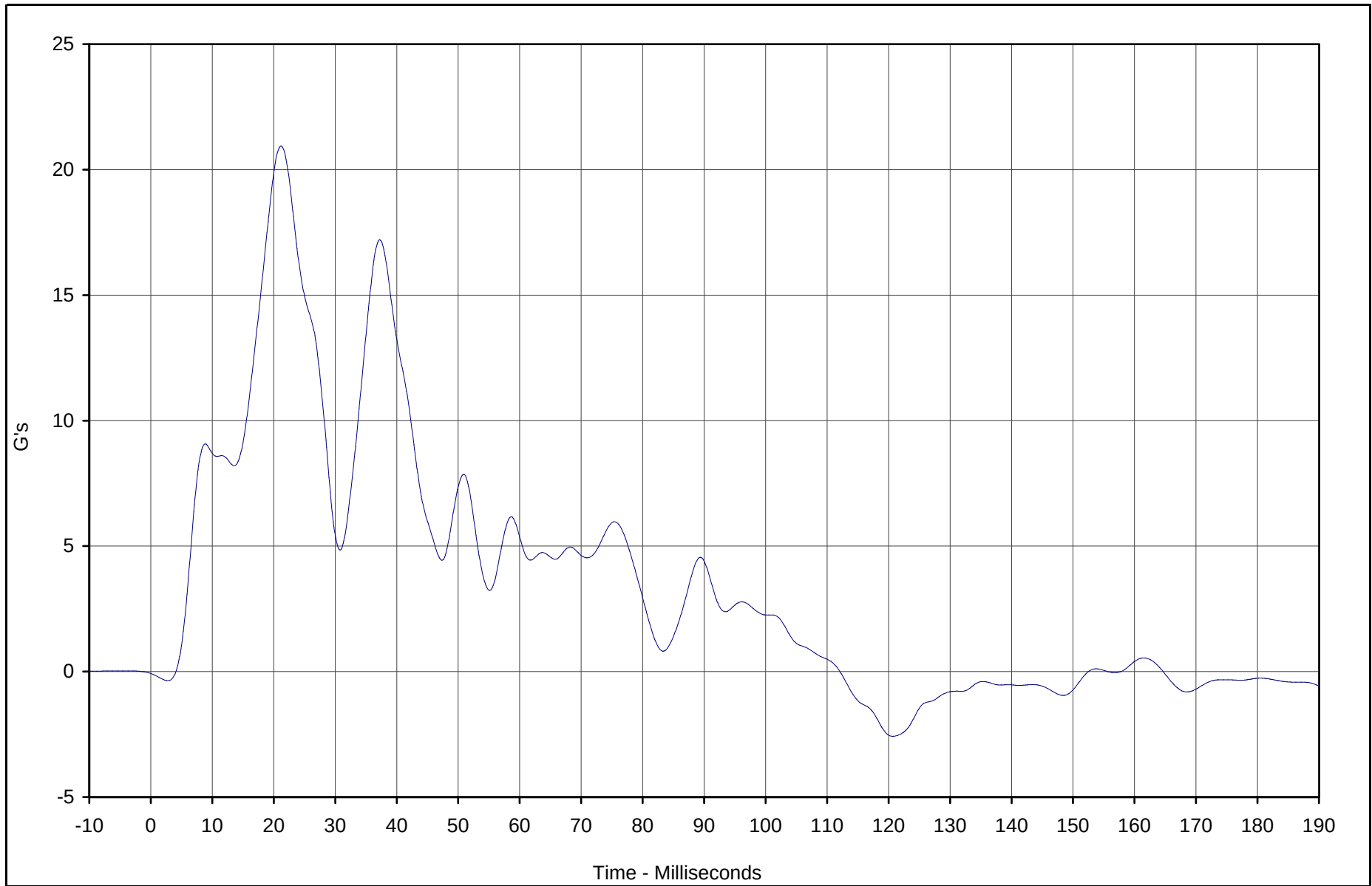


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Right Rear Occ. Comp. Y	057	FIL	G's	20.9	21.2	-2.6	120.7	60

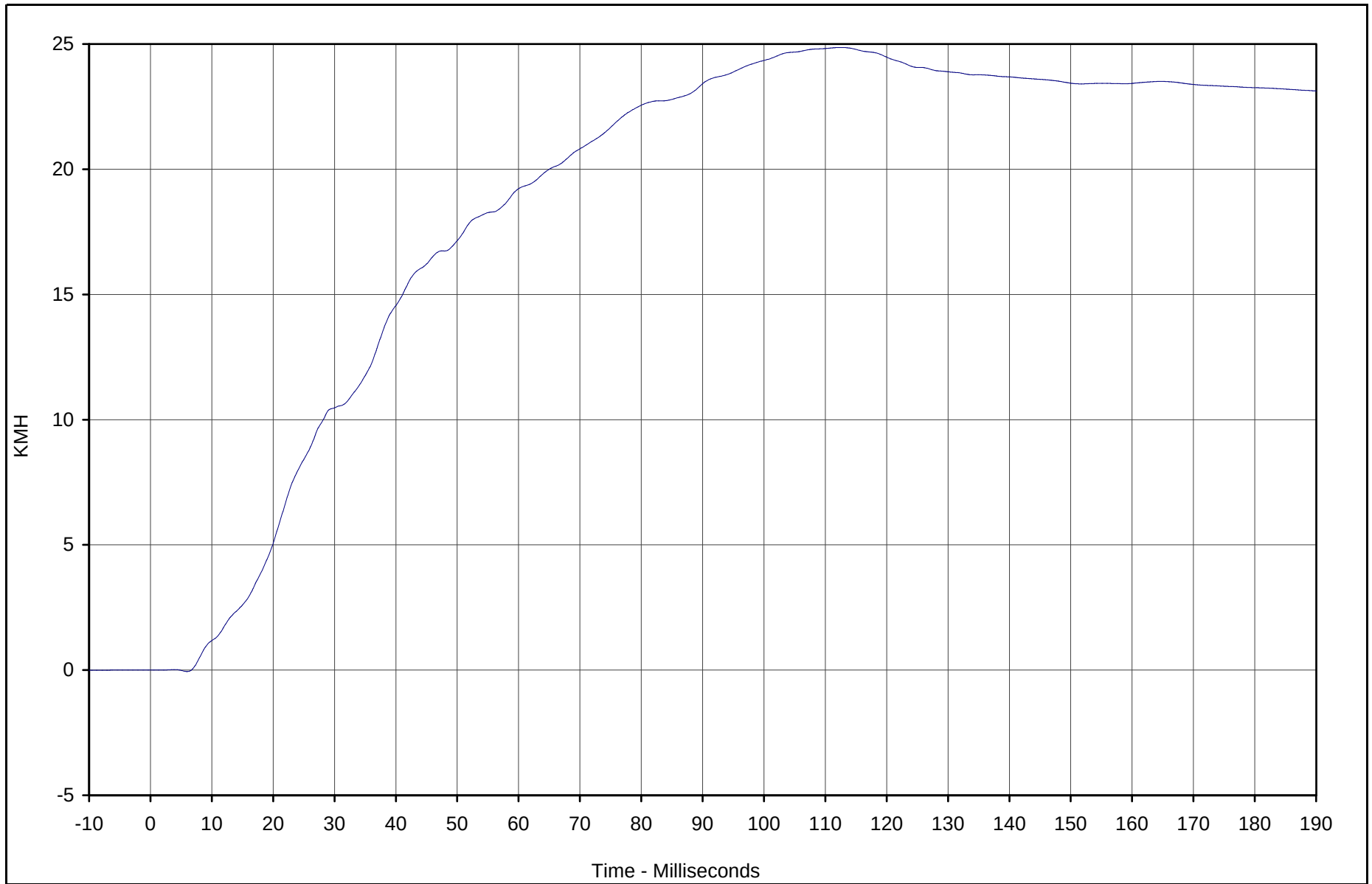


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Right Rear Occ. Comp. Y Velocity	057	IN1	KMH	24.9	112.5	-0.1	6.0	180

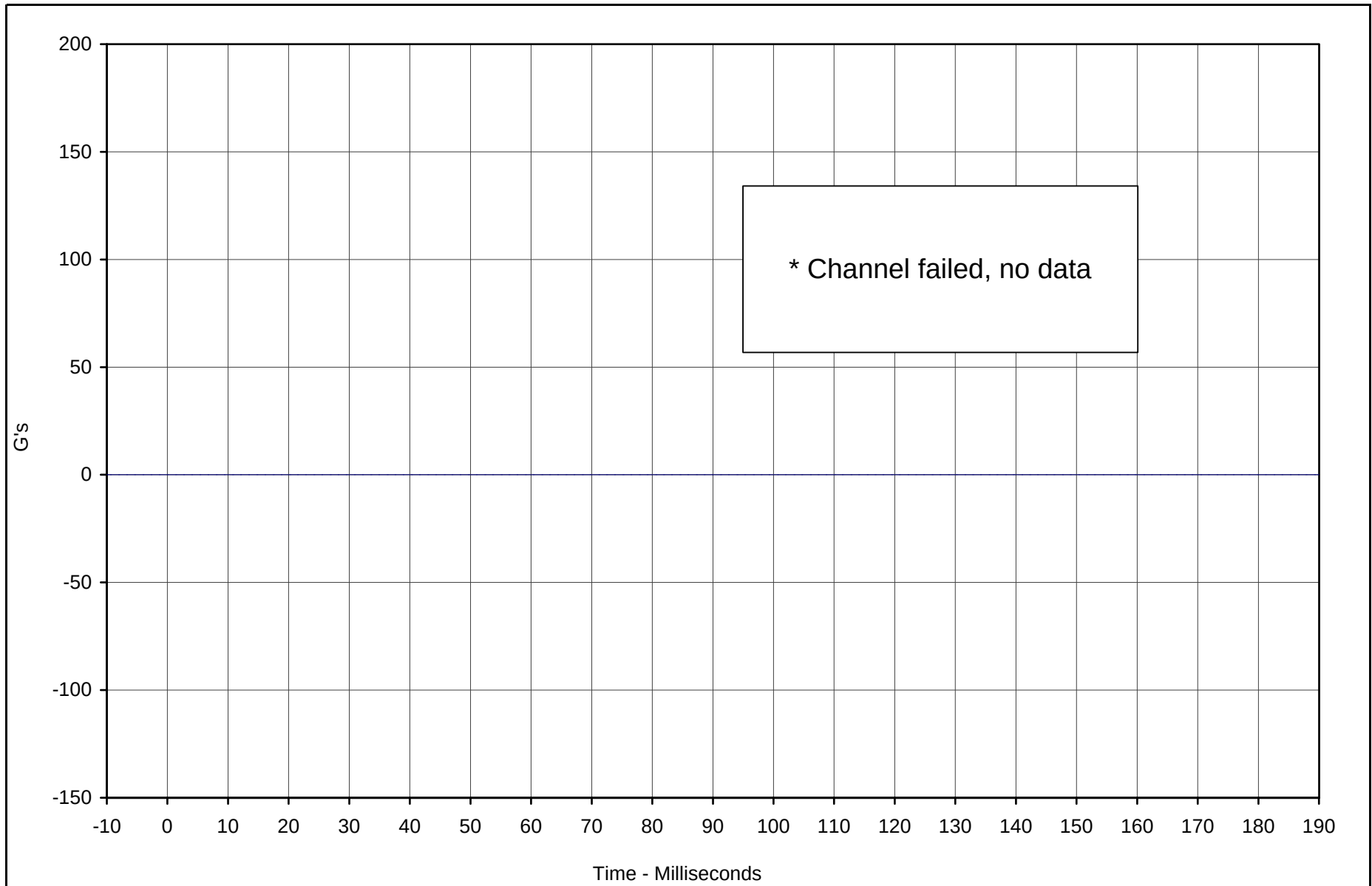


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



* Channel failed, no data

Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Left Front Door Mid-Rear Y	058	FIL	G's	0.0	0.0	0.0	0.0	60

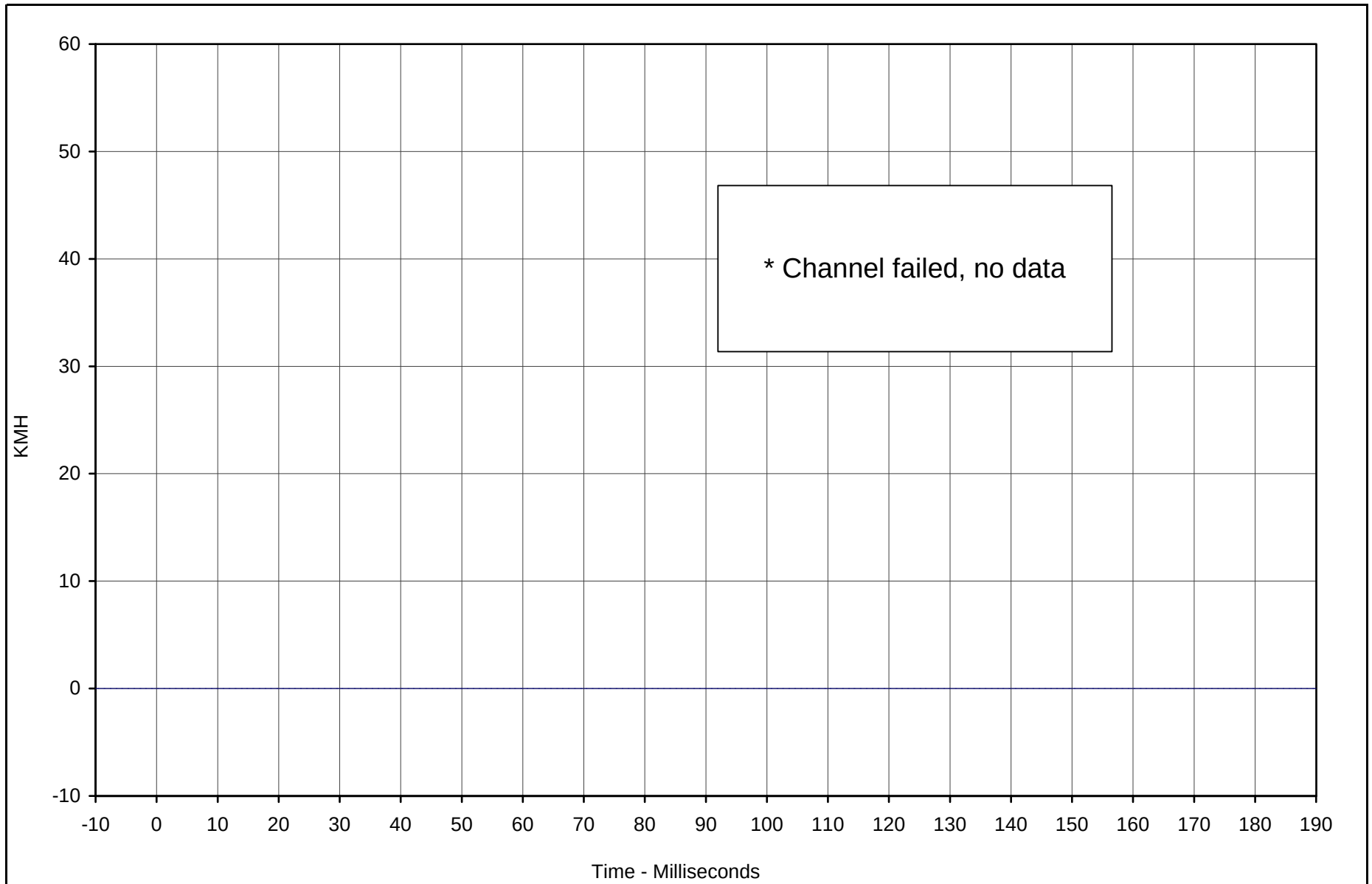


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



* Channel failed, no data

Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Left Front Door Mid-Rear Y Velocity	058	IN1	KMH	0.0	0.0	0.0	0.0	180

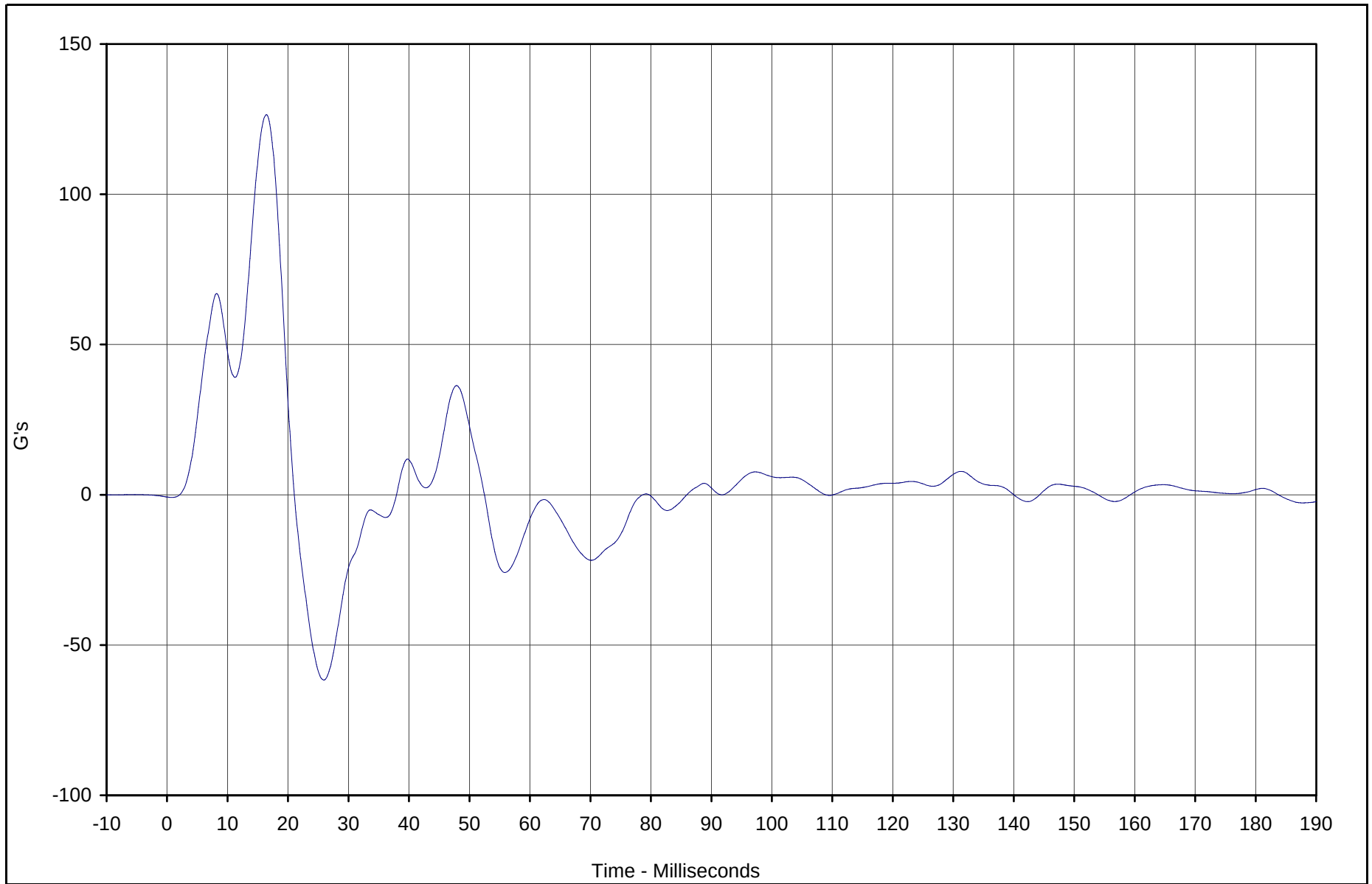


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Left Front Door Upper CL Y	059	FIL	G's	126.5	16.4	-61.6	25.9	60

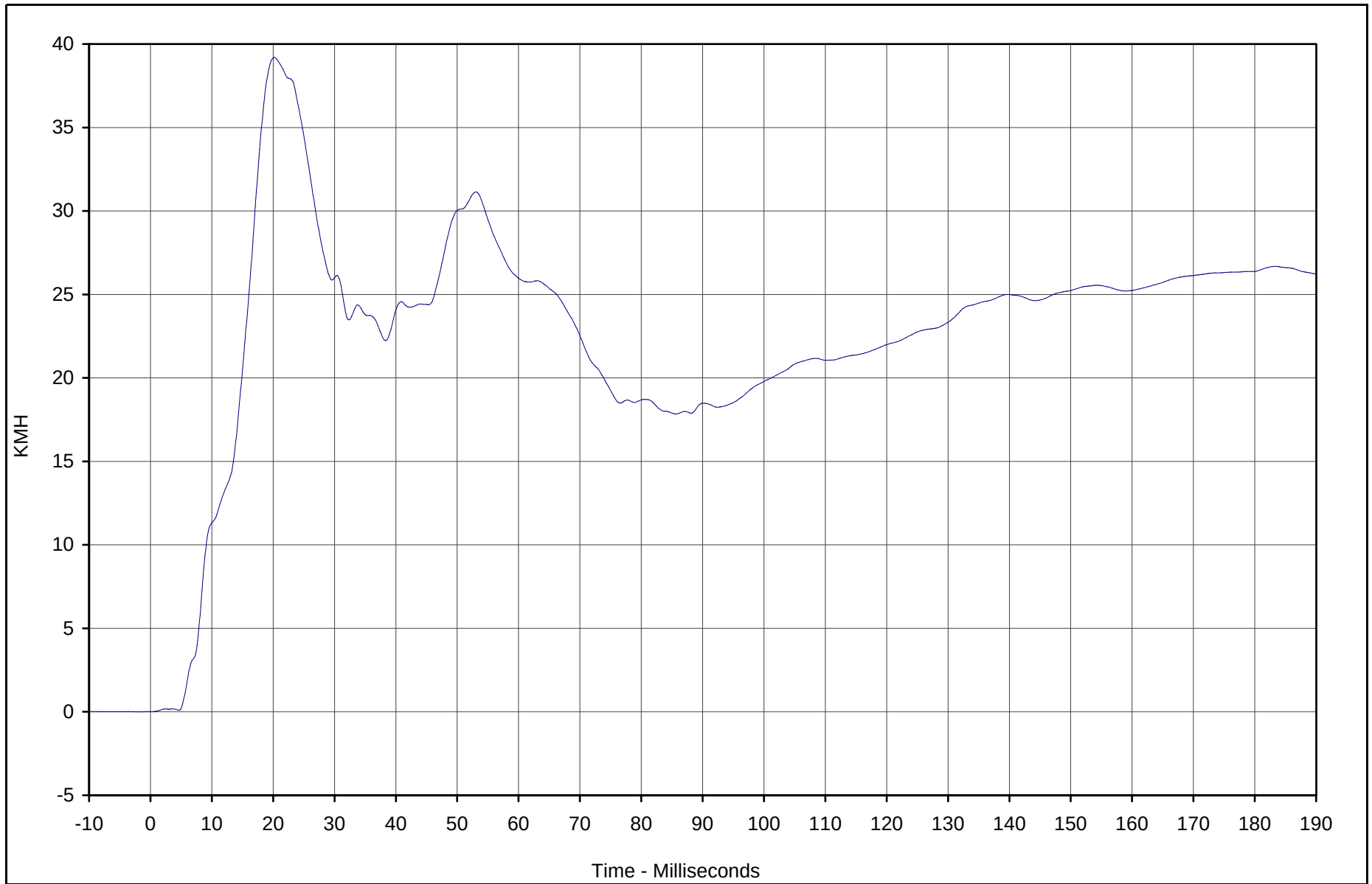


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Left Front Door Upper CL Y Velocity	059	IN1	KMH	39.2	20.2	0.0	0.0	180

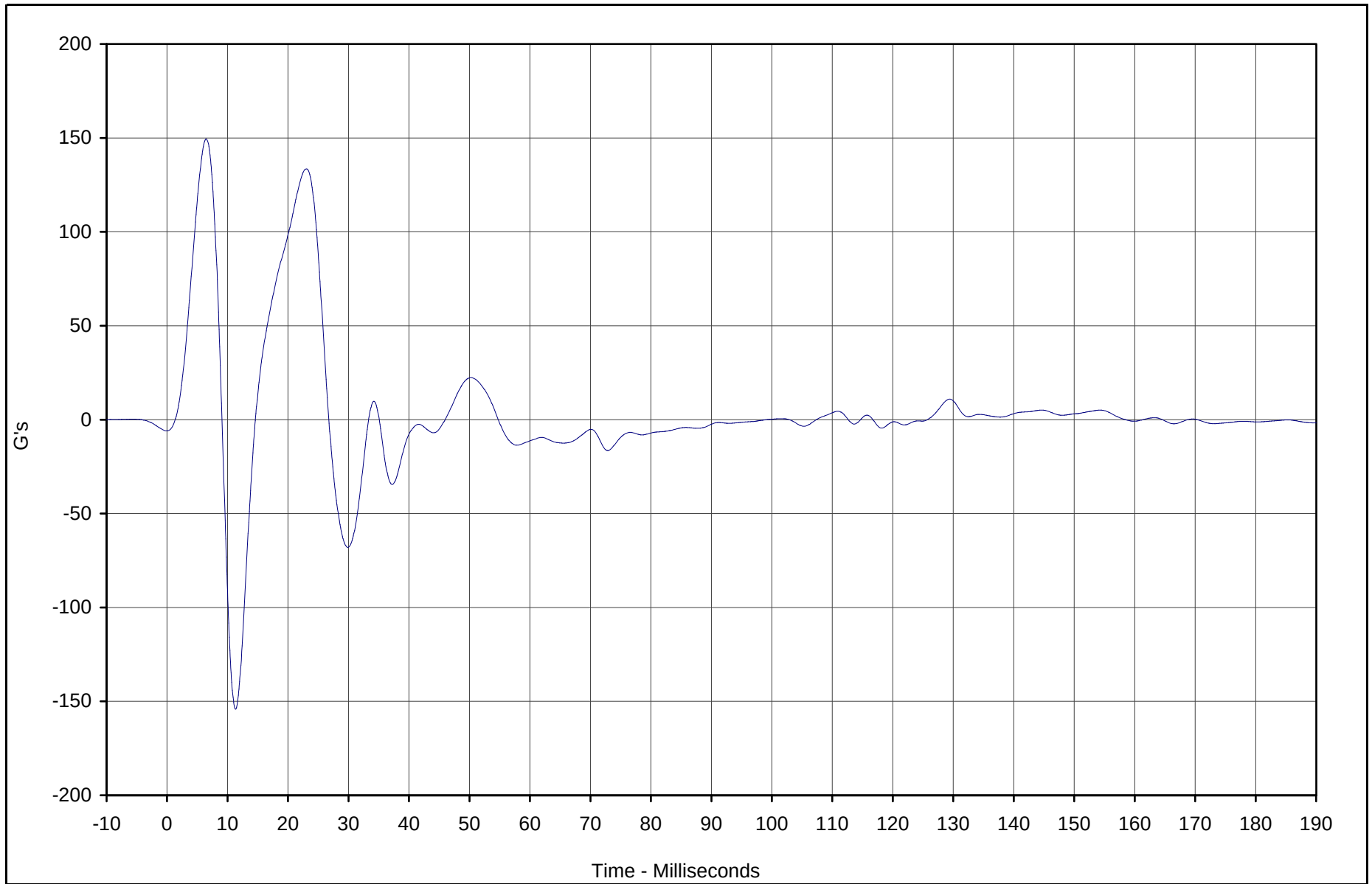


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Left Rear Door Mid-Rear Y	060	FIL	G's	149.4	6.5	-154.2	11.3	60

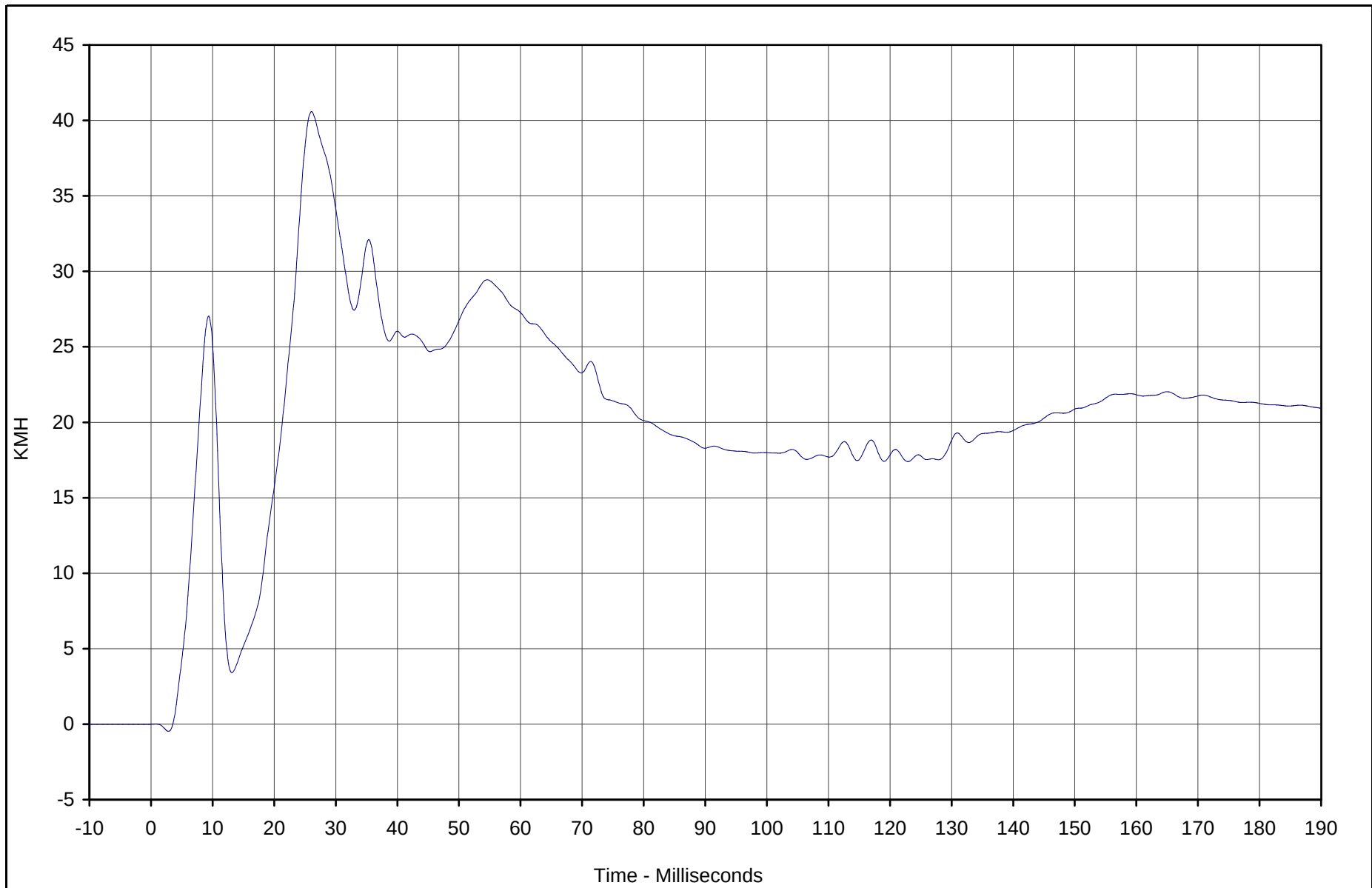


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Left Rear Door Mid-Rear Y Velocity	060	IN1	KMH	40.6	26.1	-0.5	2.8	180

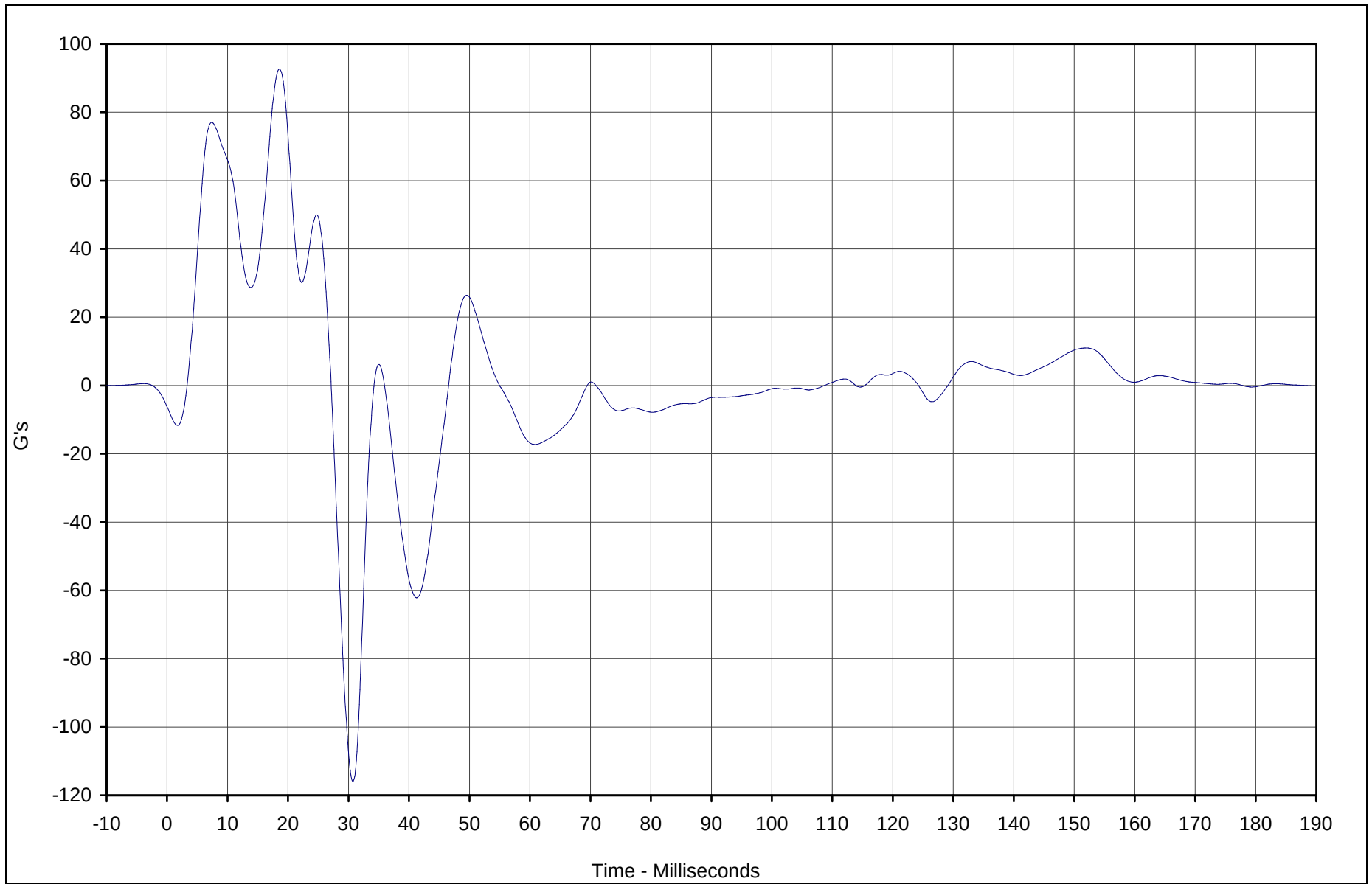


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Left Rear Door Upper CL Y	061	FIL	G's	92.7	18.6	-115.9	30.7	60

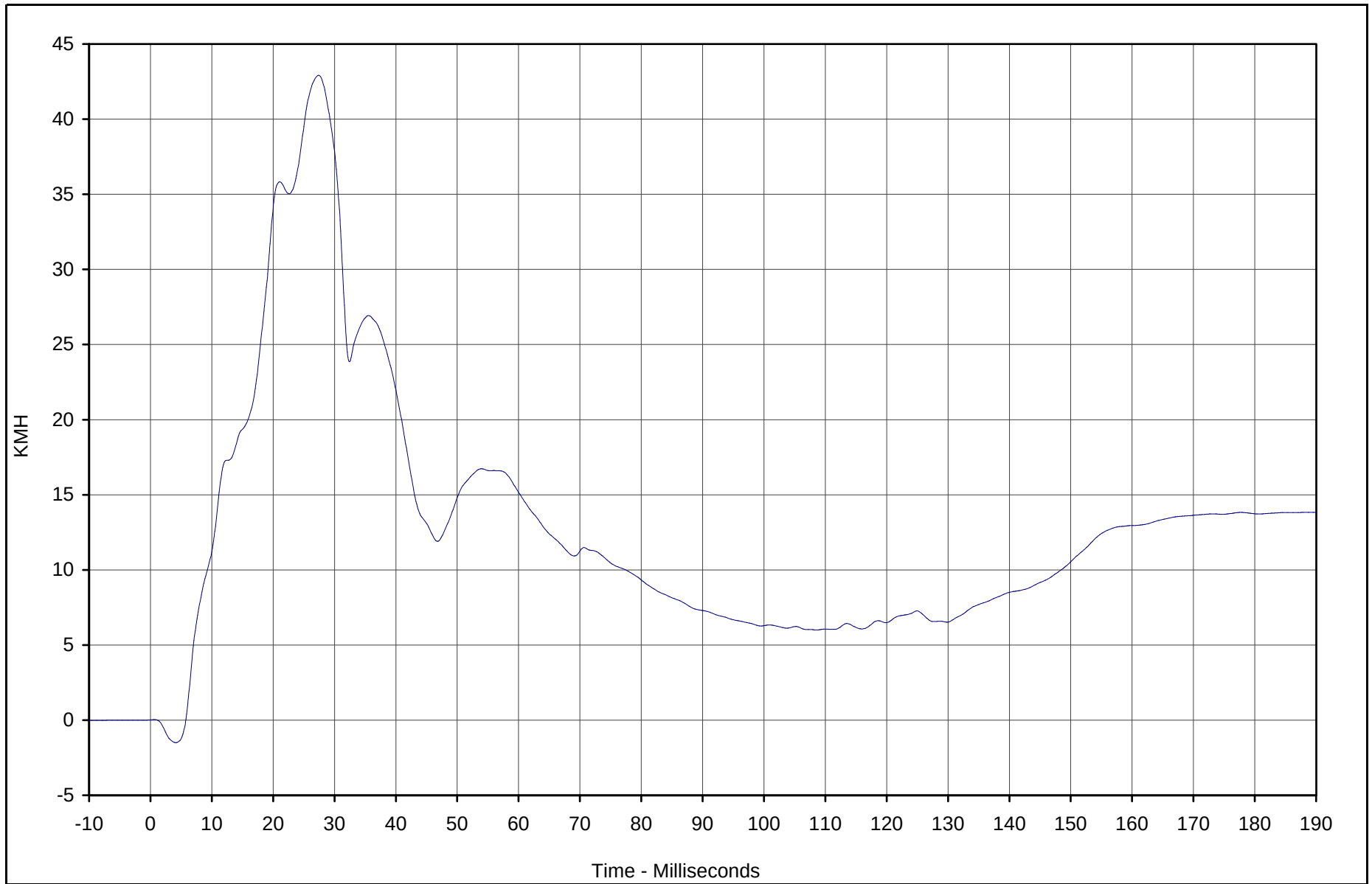


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Left Rear Door Upper CL Y Velocity	061	IN1	KMH	42.9	27.4	-1.5	4.1	180

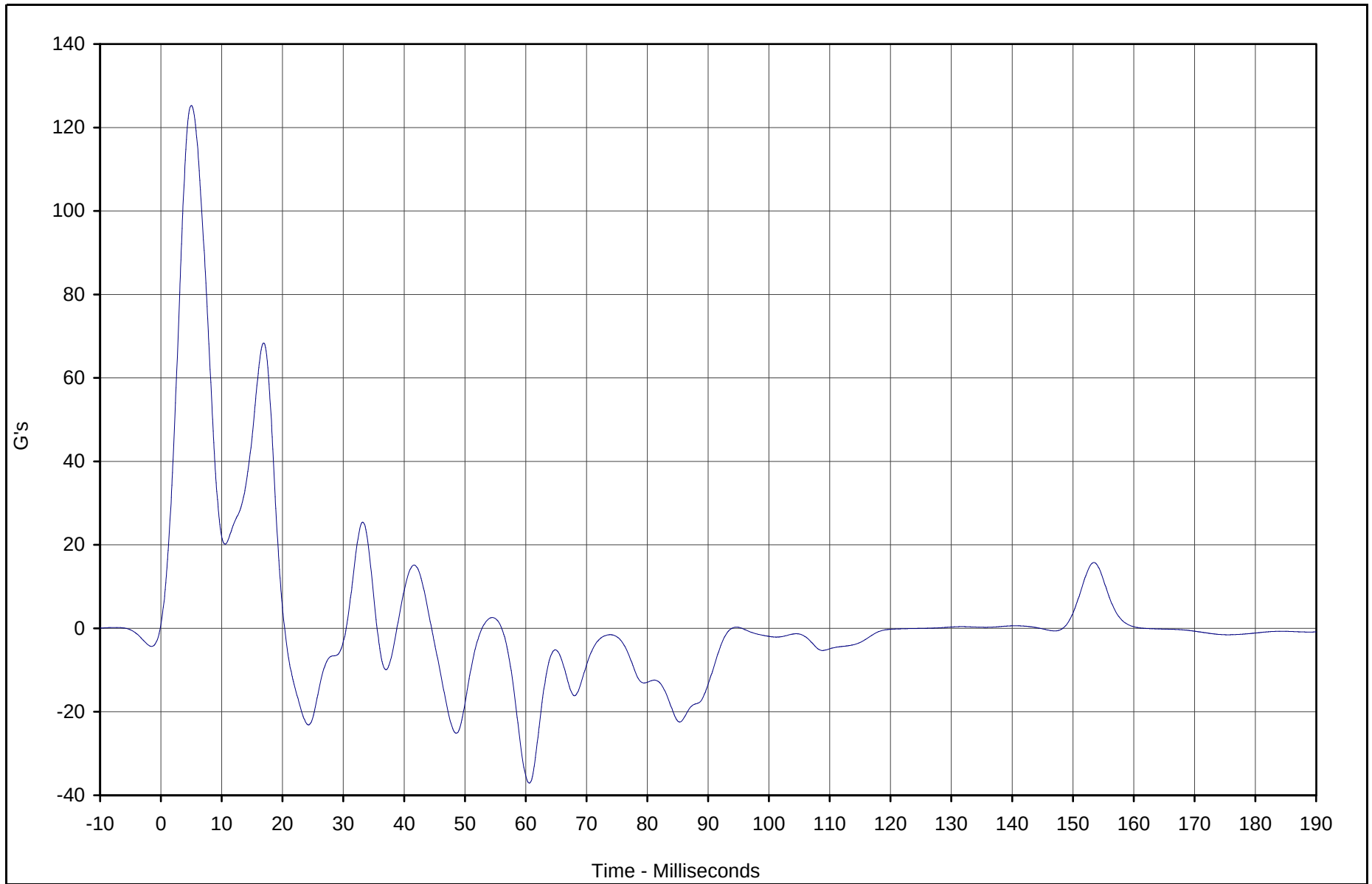


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
B-Post Lower Y	062	FIL	G's	125.3	5.0	-37.1	60.6	60

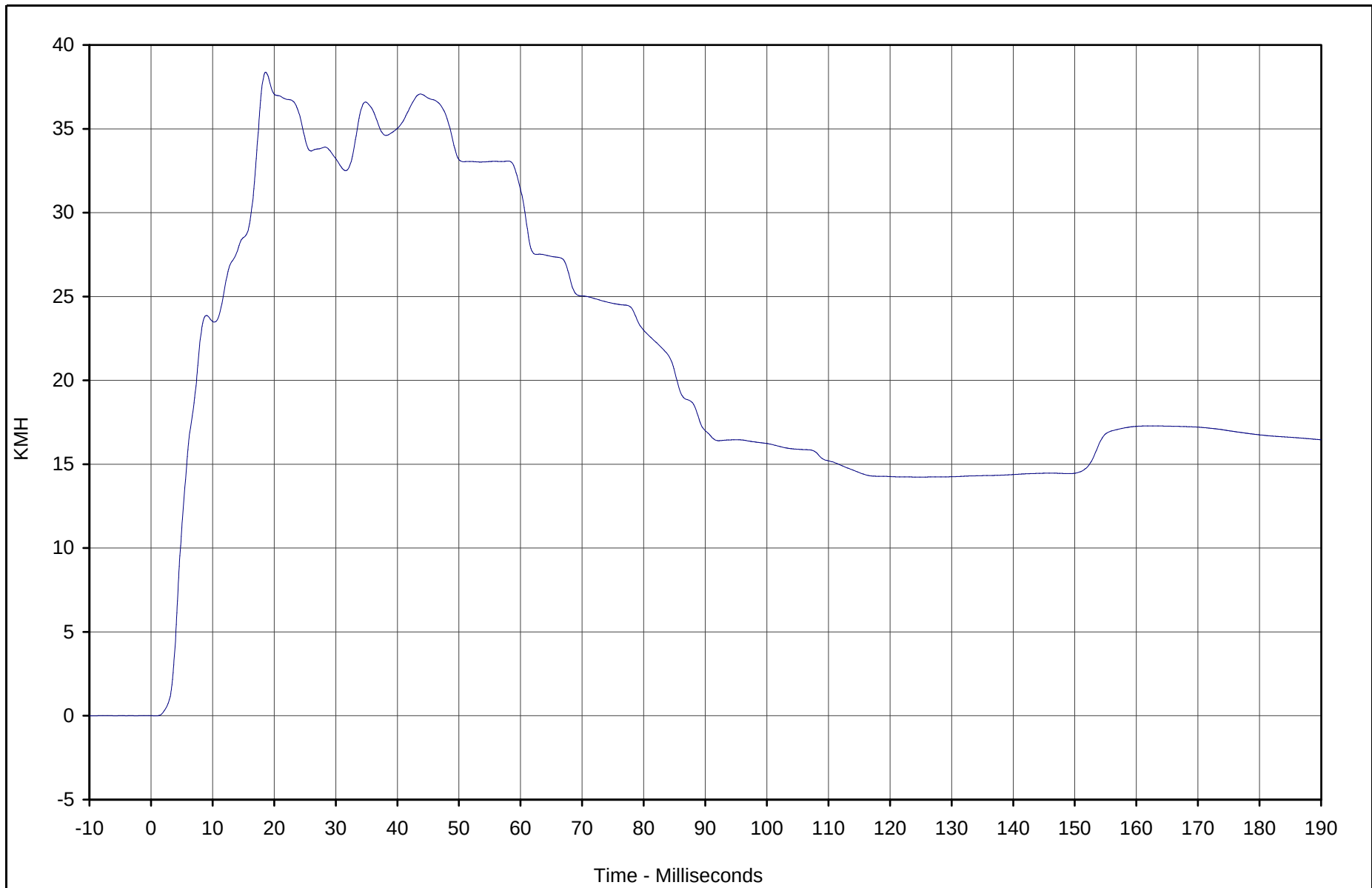


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
B-Post Lower Y Velocity	062	IN1	KMH	38.4	18.6	0.0	0.8	180

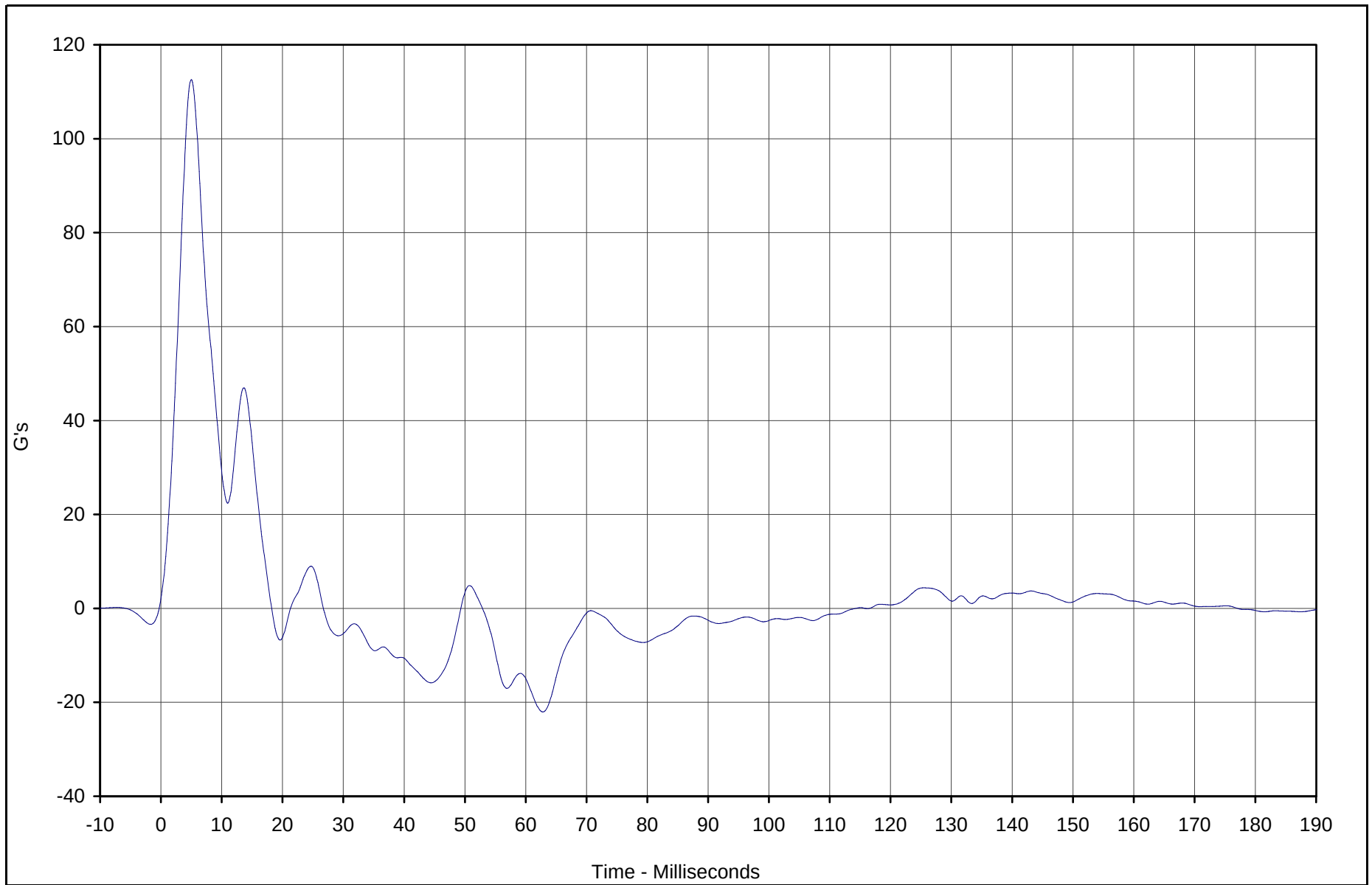


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
B-Post Middle Y	063	FIL	G's	112.6	5.0	-22.0	62.8	60

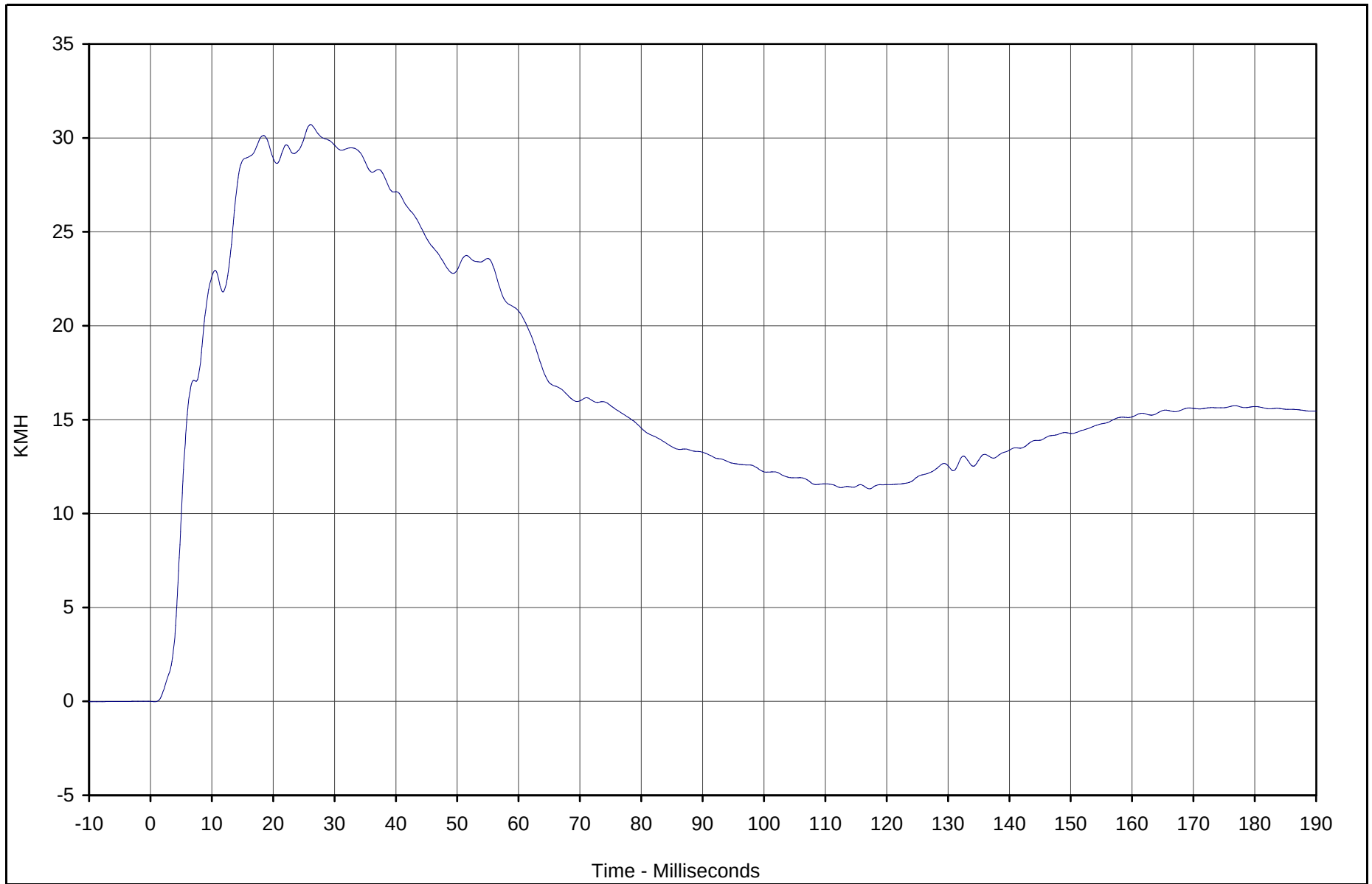


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
B-Post Middle Y Velocity	063	IN1	KMH	30.7	26.1	0.0	0.7	180

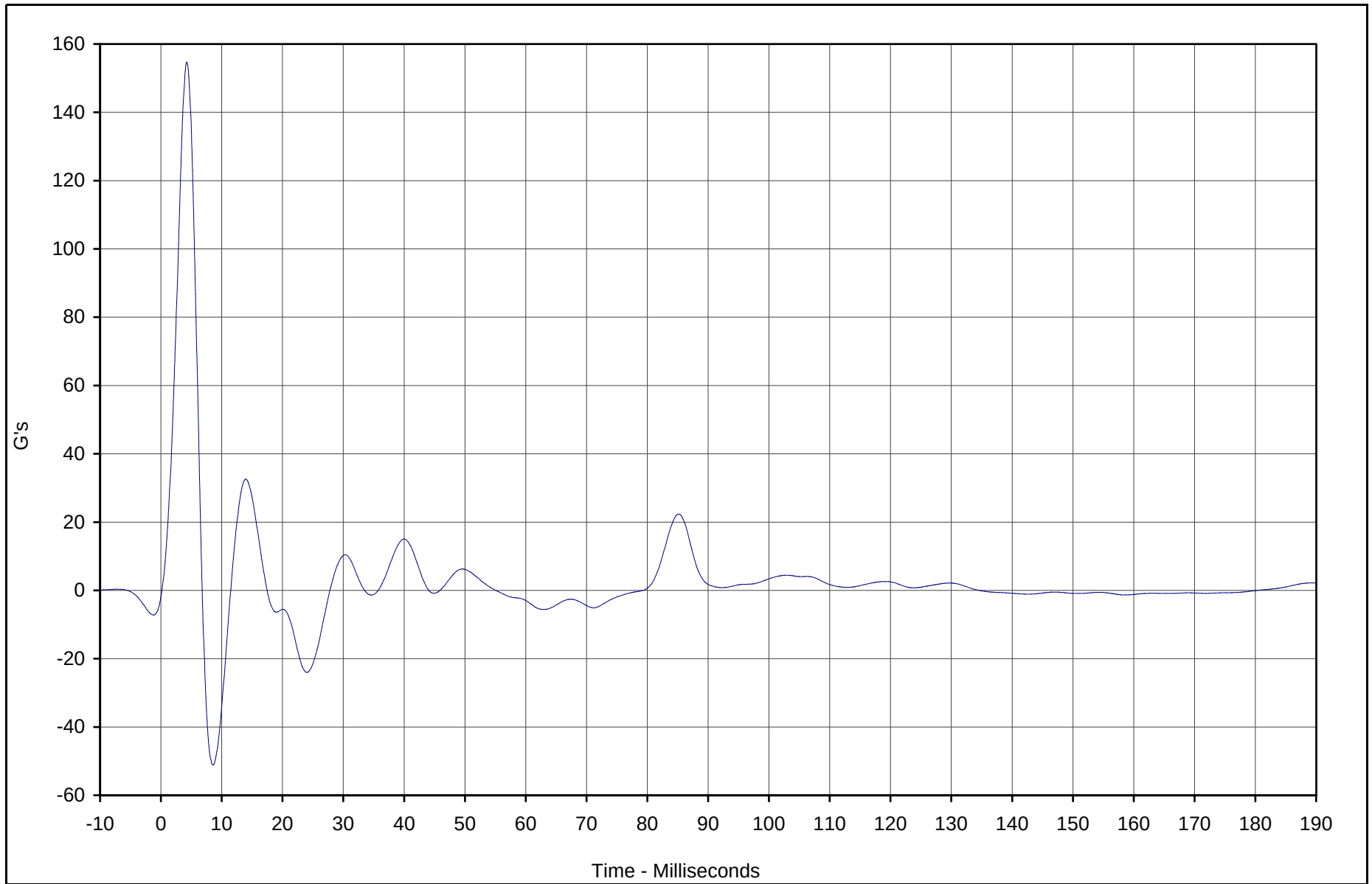


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
A-Post Lower Y	064	FIL	G's	154.7	4.3	-51.2	8.6	60

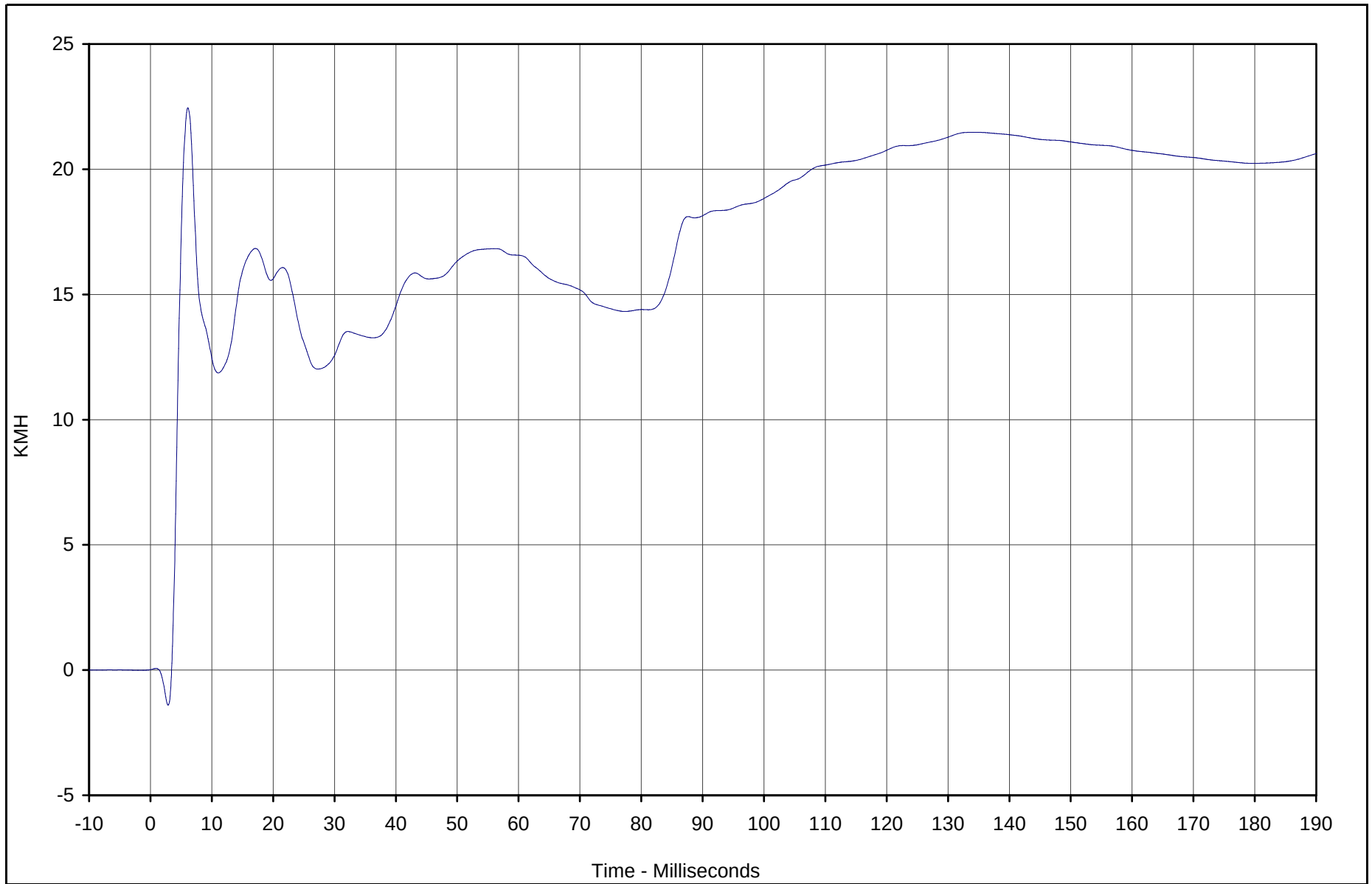


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
A-Post Lower Y Velocity	064	IN1	KMH	22.5	6.1	-1.4	2.9	180

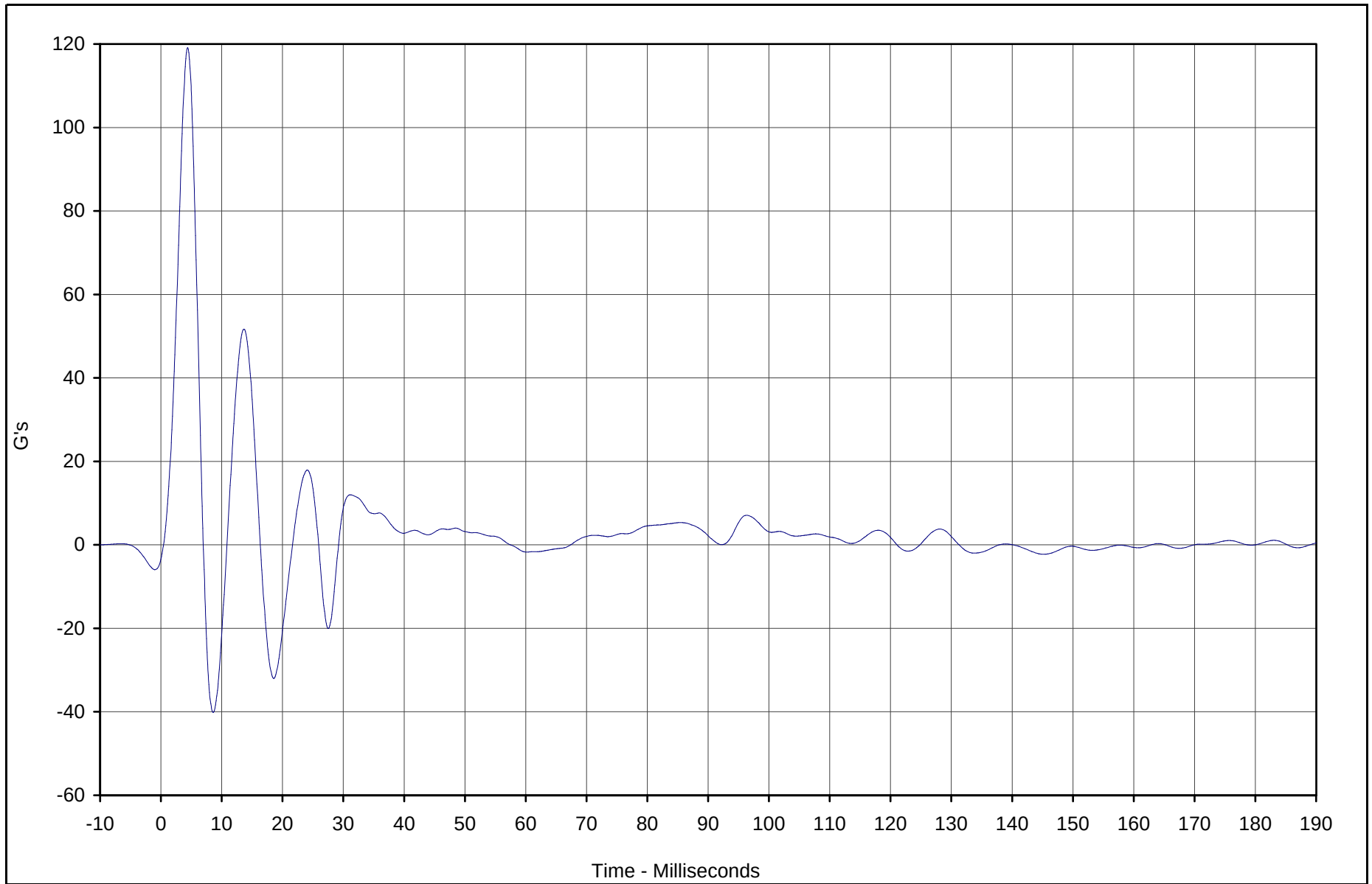


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
A-Post Middle Y	065	FIL	G's	119.1	4.4	-40.2	8.6	60

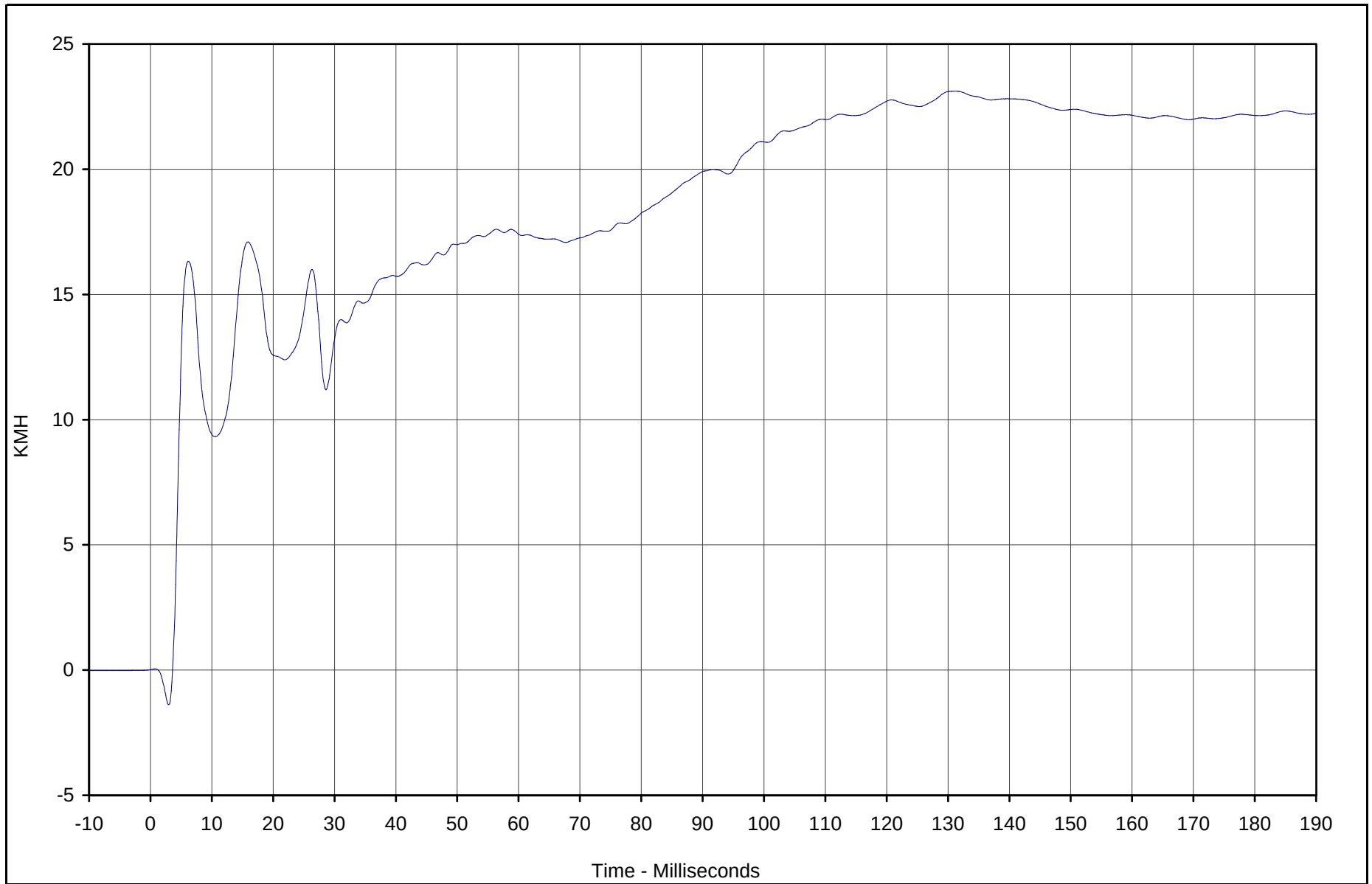


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
A-Post Middle Y Velocity	065	IN1	KMH	23.1	131.2	-1.4	3.0	180

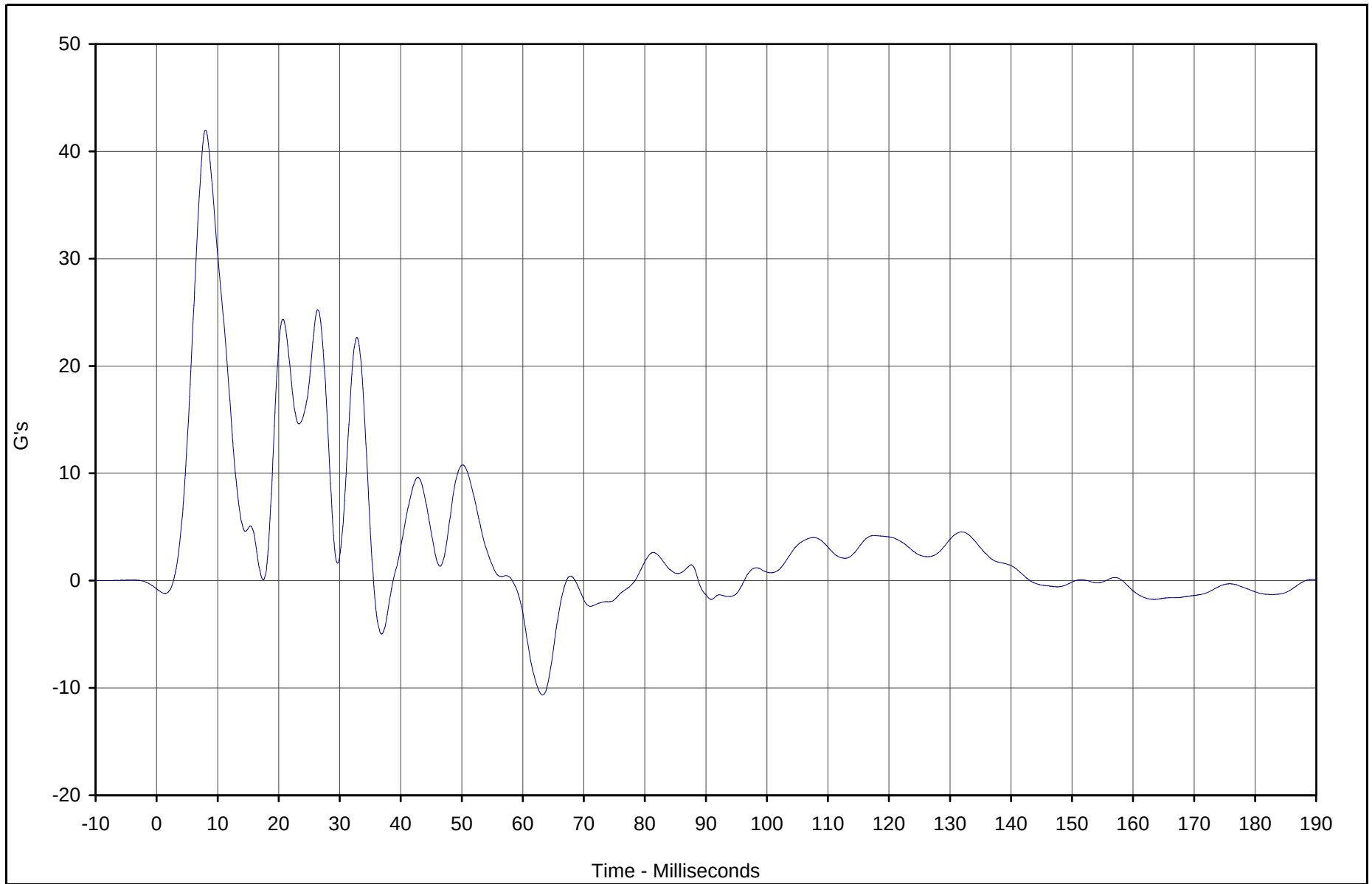


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Left Front Seat Track Y	066	FIL	G's	42.0	8.0	-10.7	63.3	60

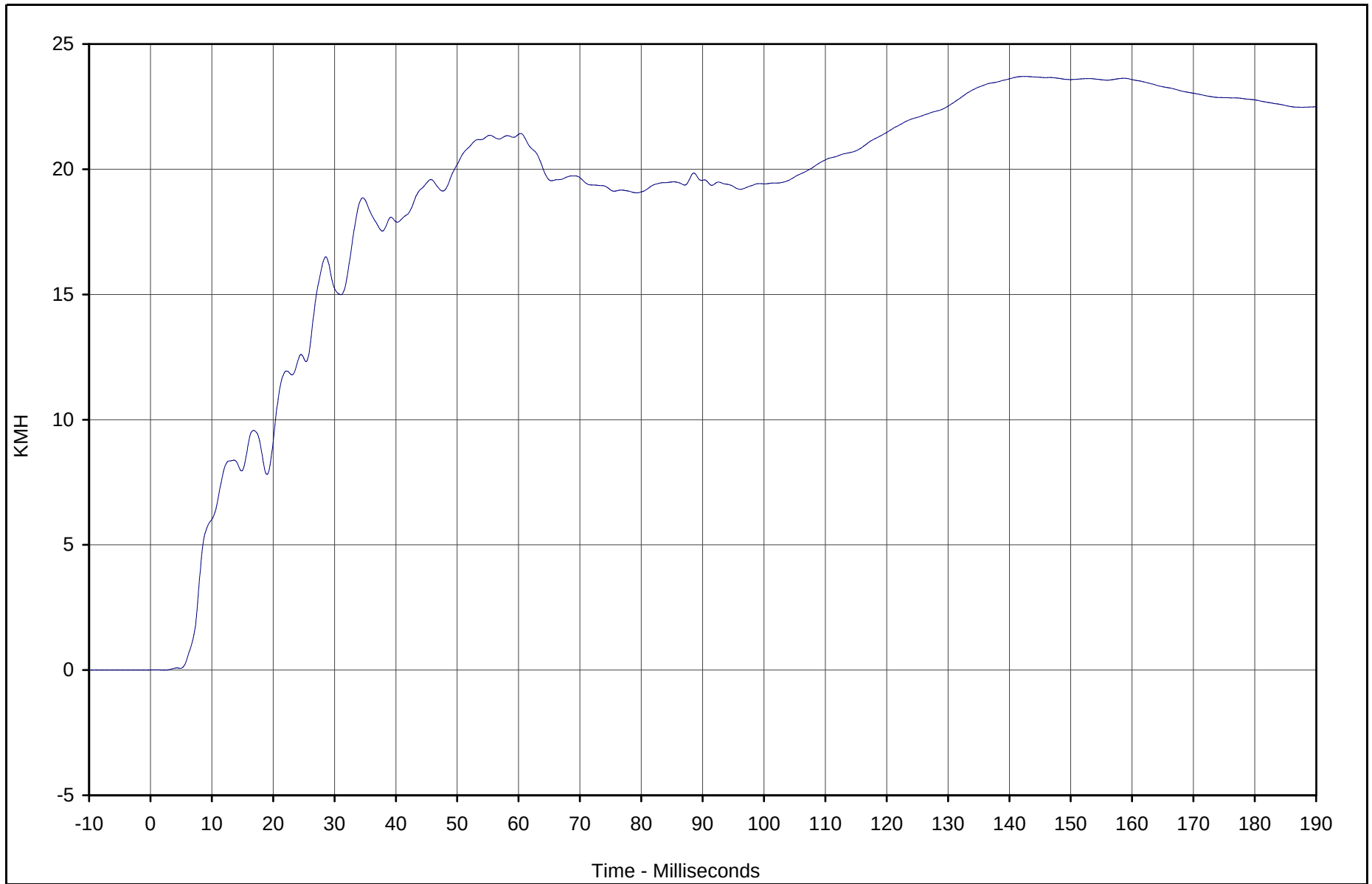


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Left Front Seat Track Y Velocity	066	IN1	KMH	23.7	142.6	0.0	2.3	180

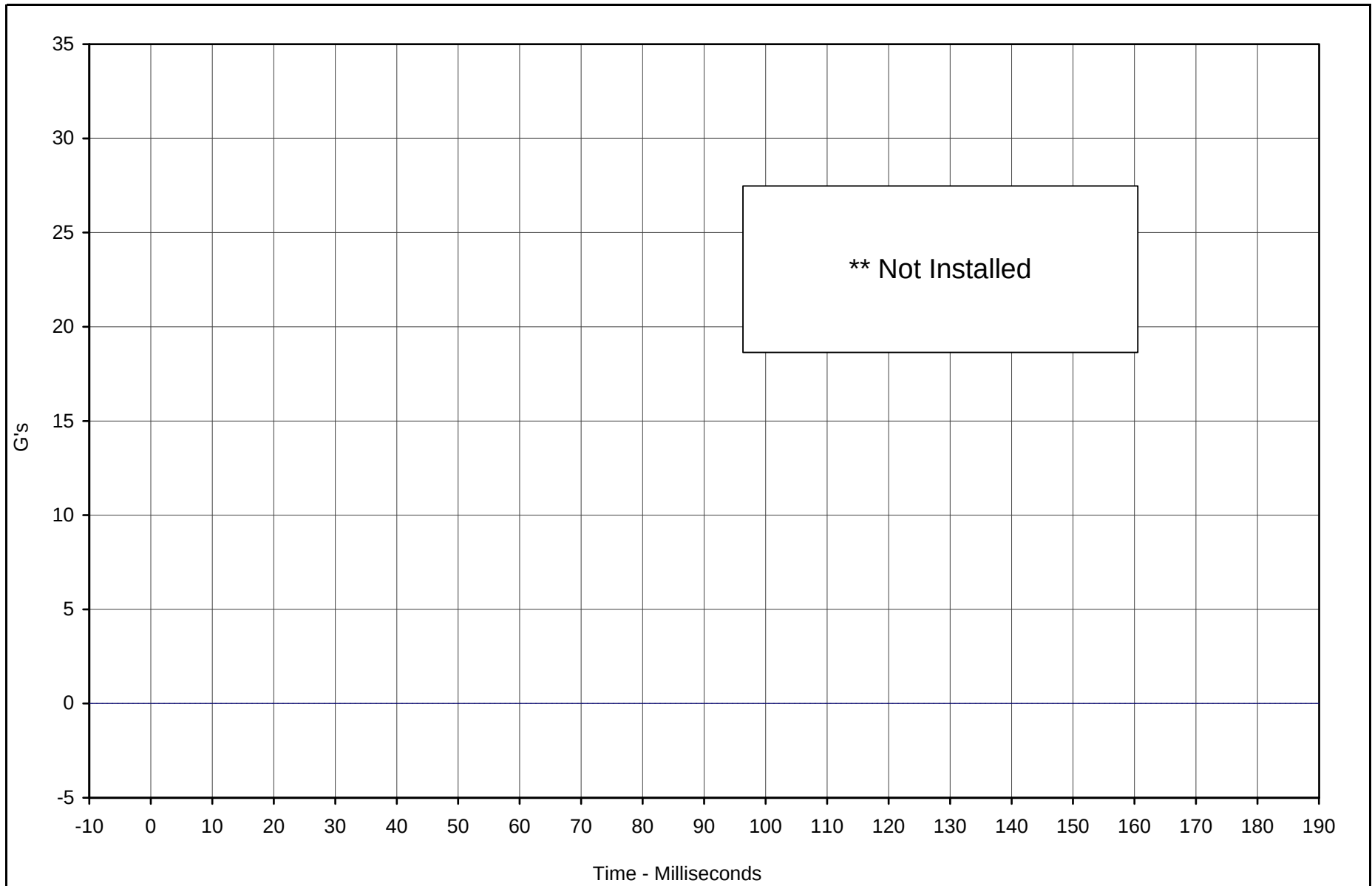


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



** Not installed

Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Rear Seat Structure Y	067	FIL	G's	0.0	0.0	0.0	0.0	60

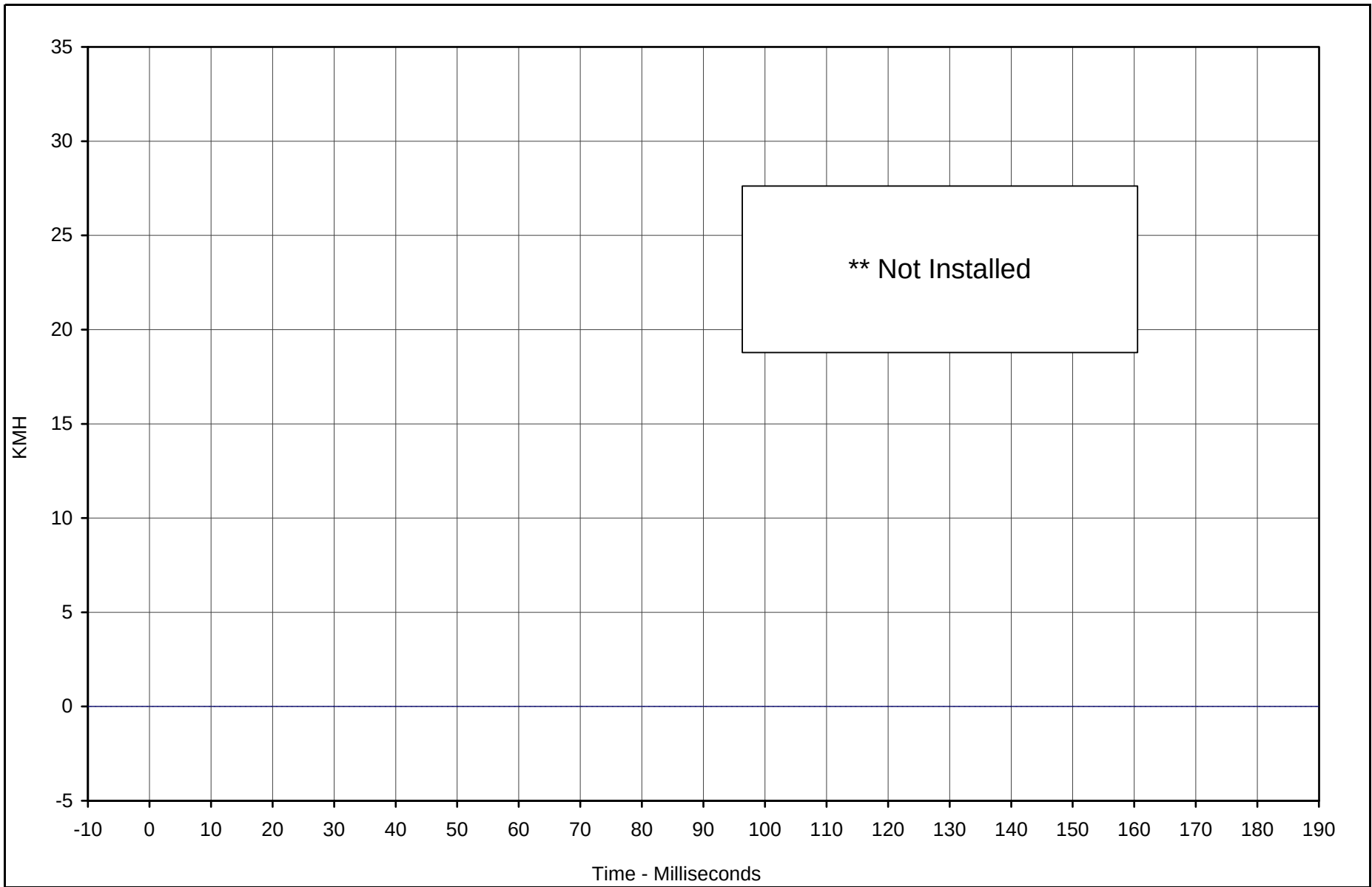


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



** Not installed

Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Rear Seat Structure Y Velocity	067	IN1	KMH	0.0	0.0	0.0	0.0	180

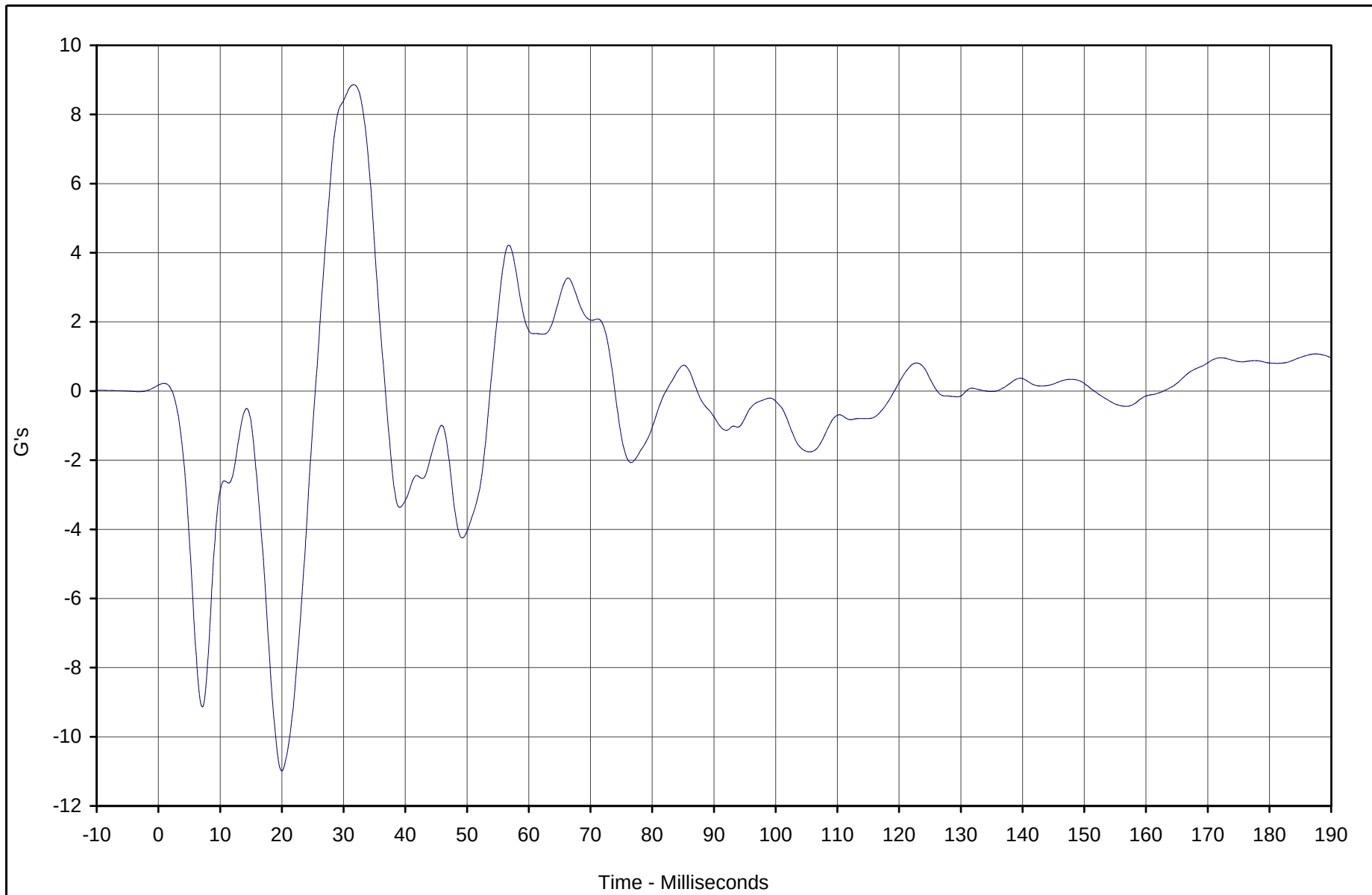


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle CG X	068	FIL	G's	8.9	31.7	-11.0	20.0	60

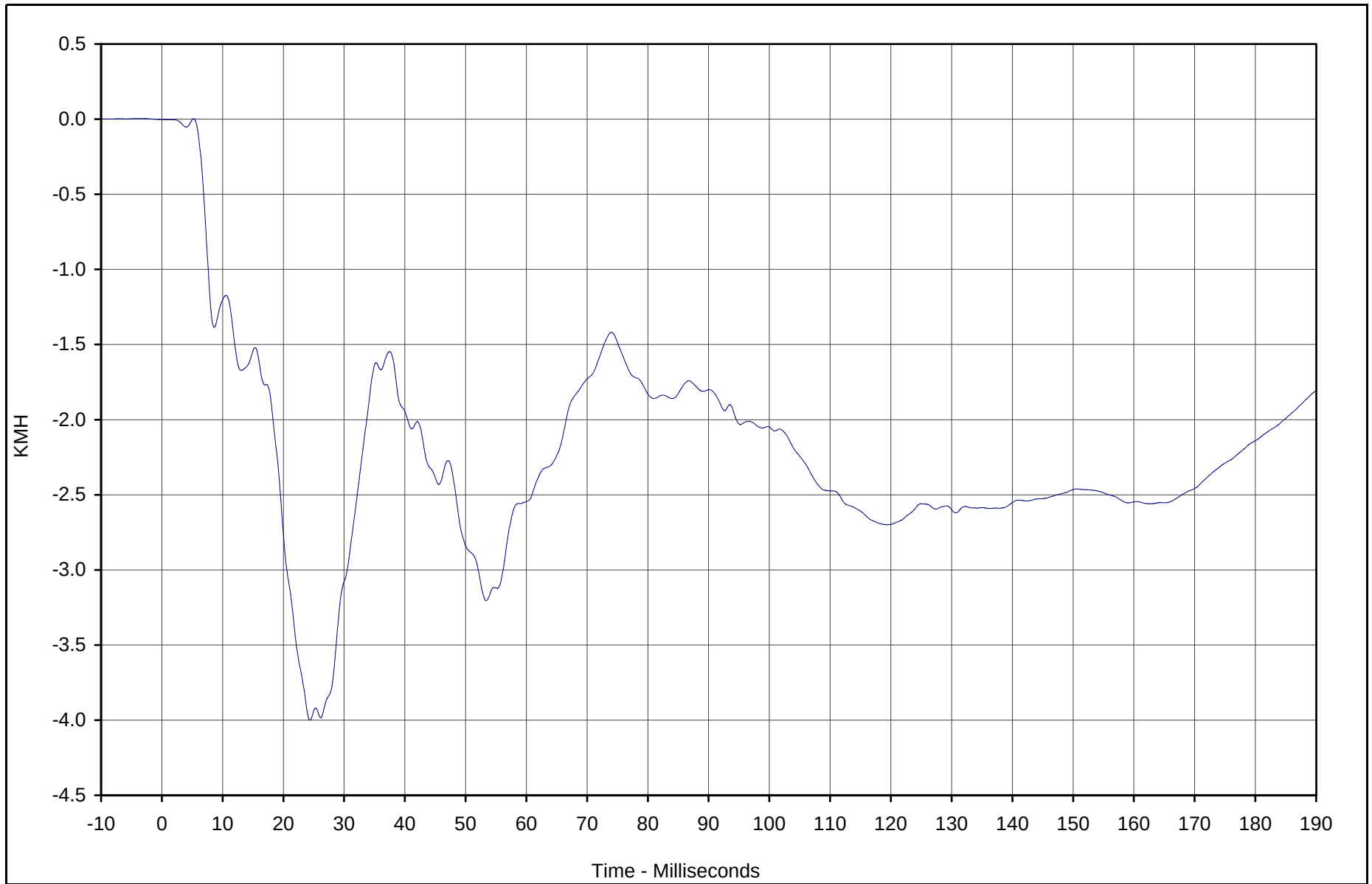


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle CG X Velocity	068	IN1	KMH	0.0	5.2	-4.0	24.4	180

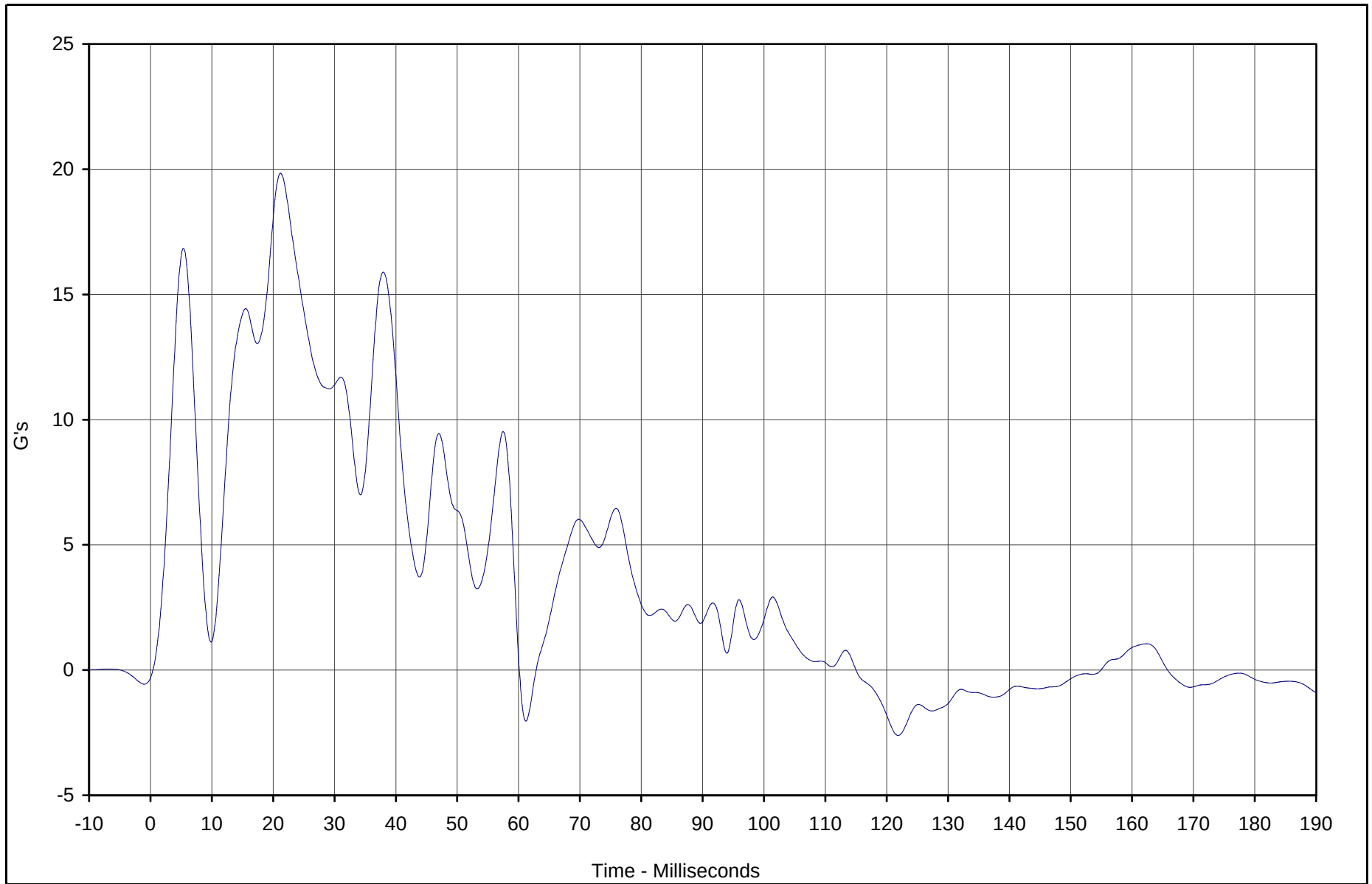


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle CG Y	069	FIL	G's	19.8	21.2	-2.6	121.9	60

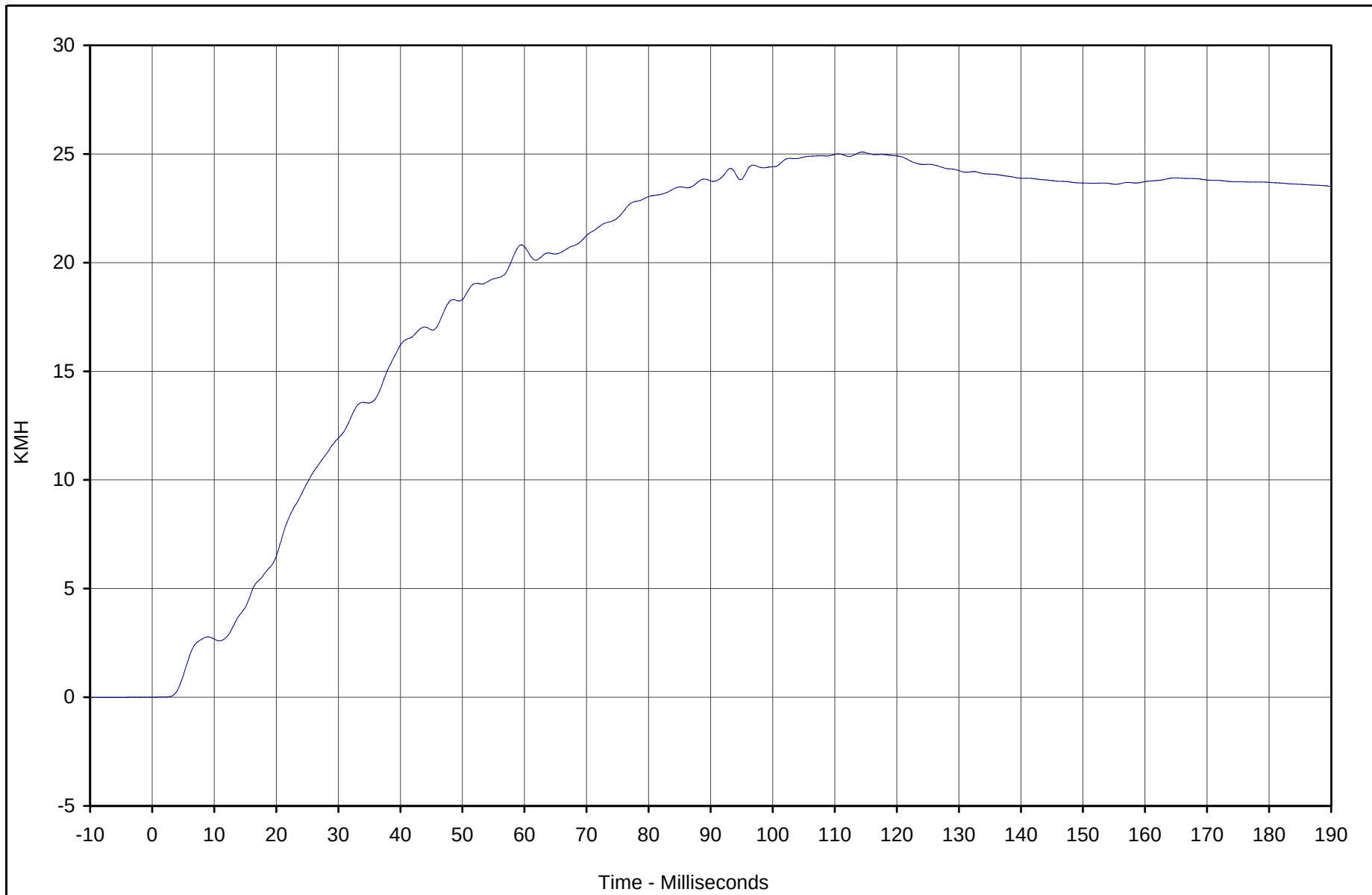


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle CG Y Velocity	069	IN1	KMH	25.1	114.4	0.0	0.0	180

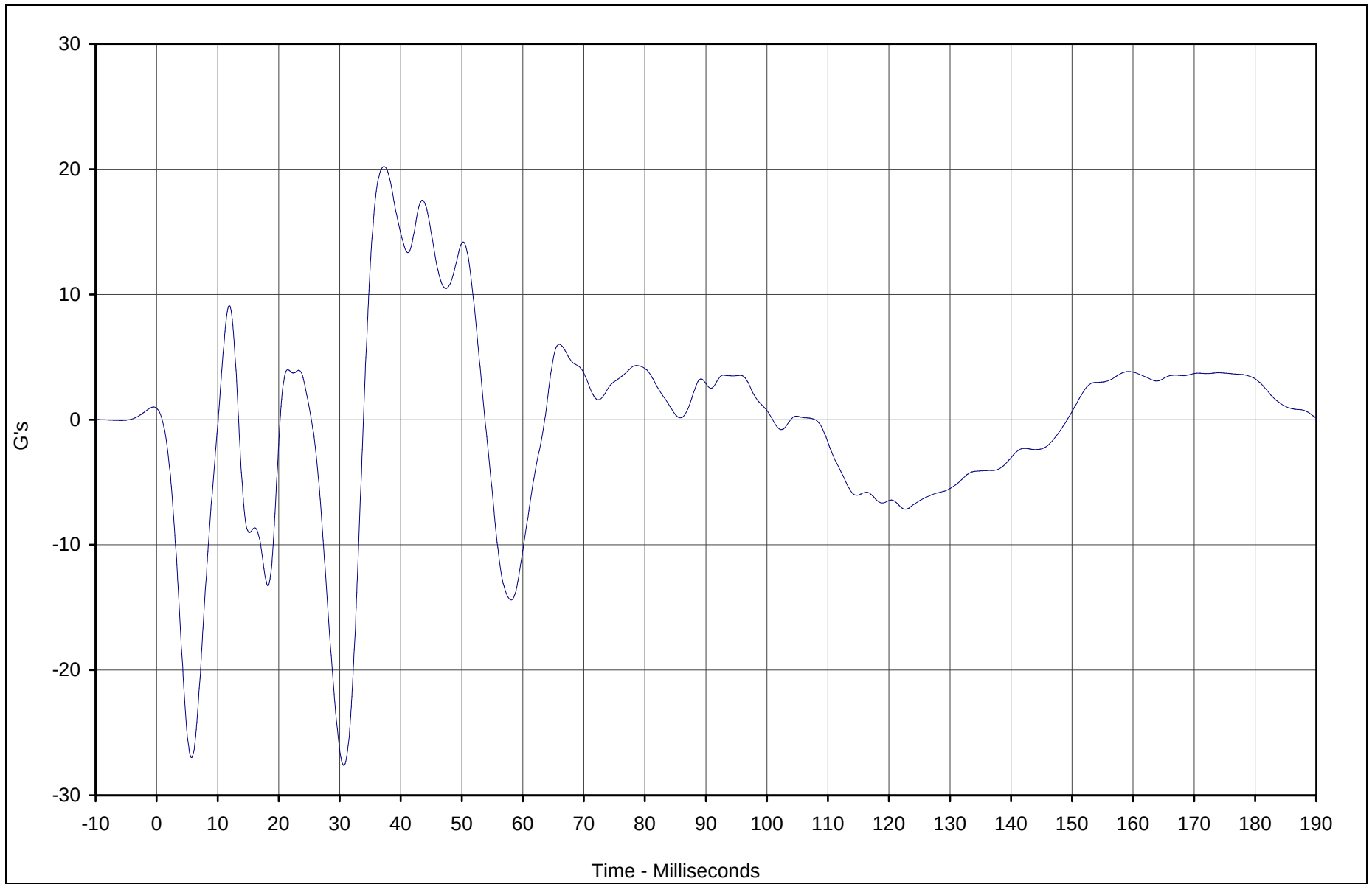


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle CG Z	070	FIL	G's	20.2	37.3	-27.6	30.7	60

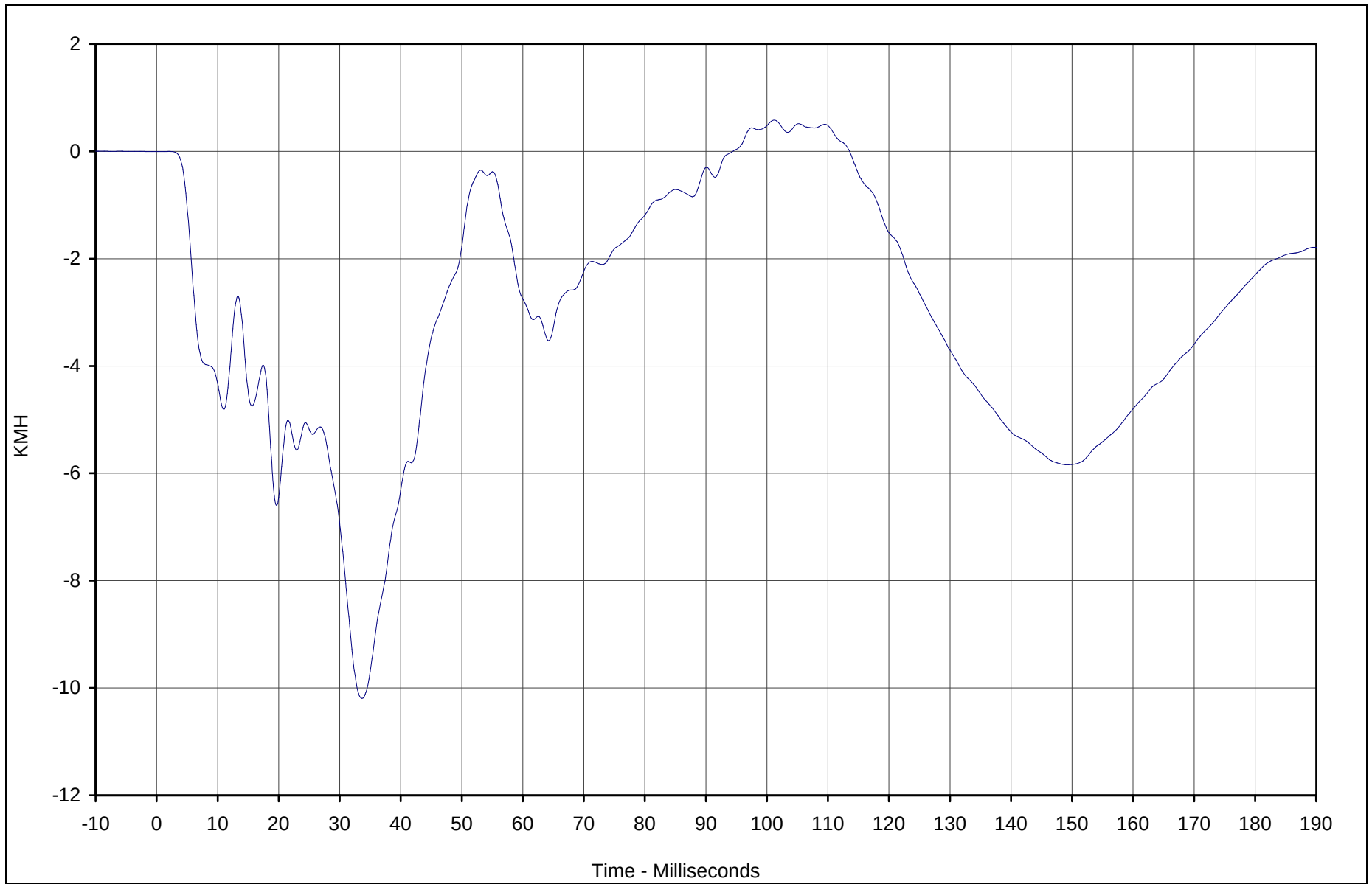


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle CG Z Velocity	070	IN1	KMH	0.6	101.2	-10.2	33.7	180

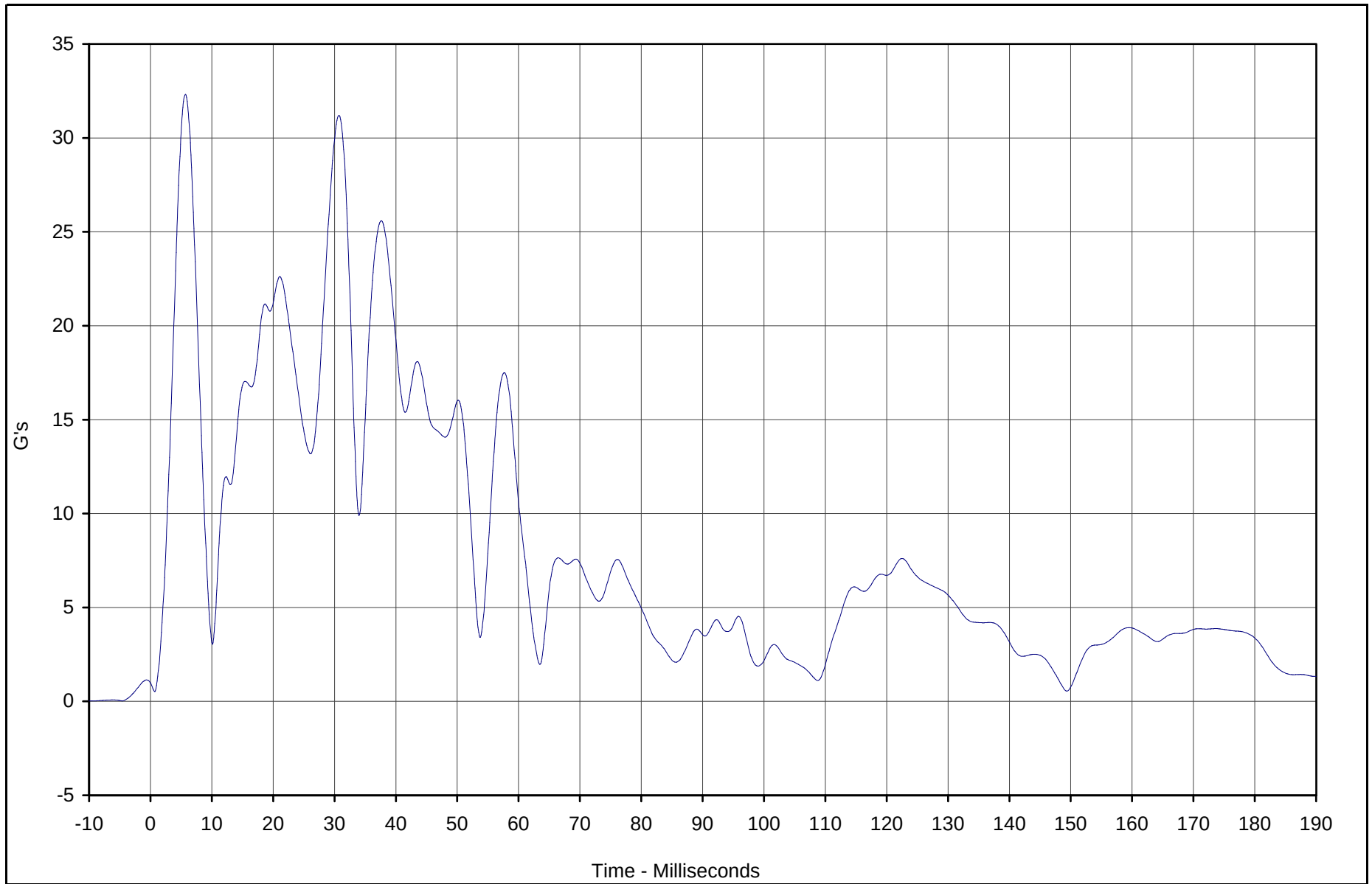


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Vehicle CG Resultant	068	RES	G's	32.3	5.7	0.5	0.7	60

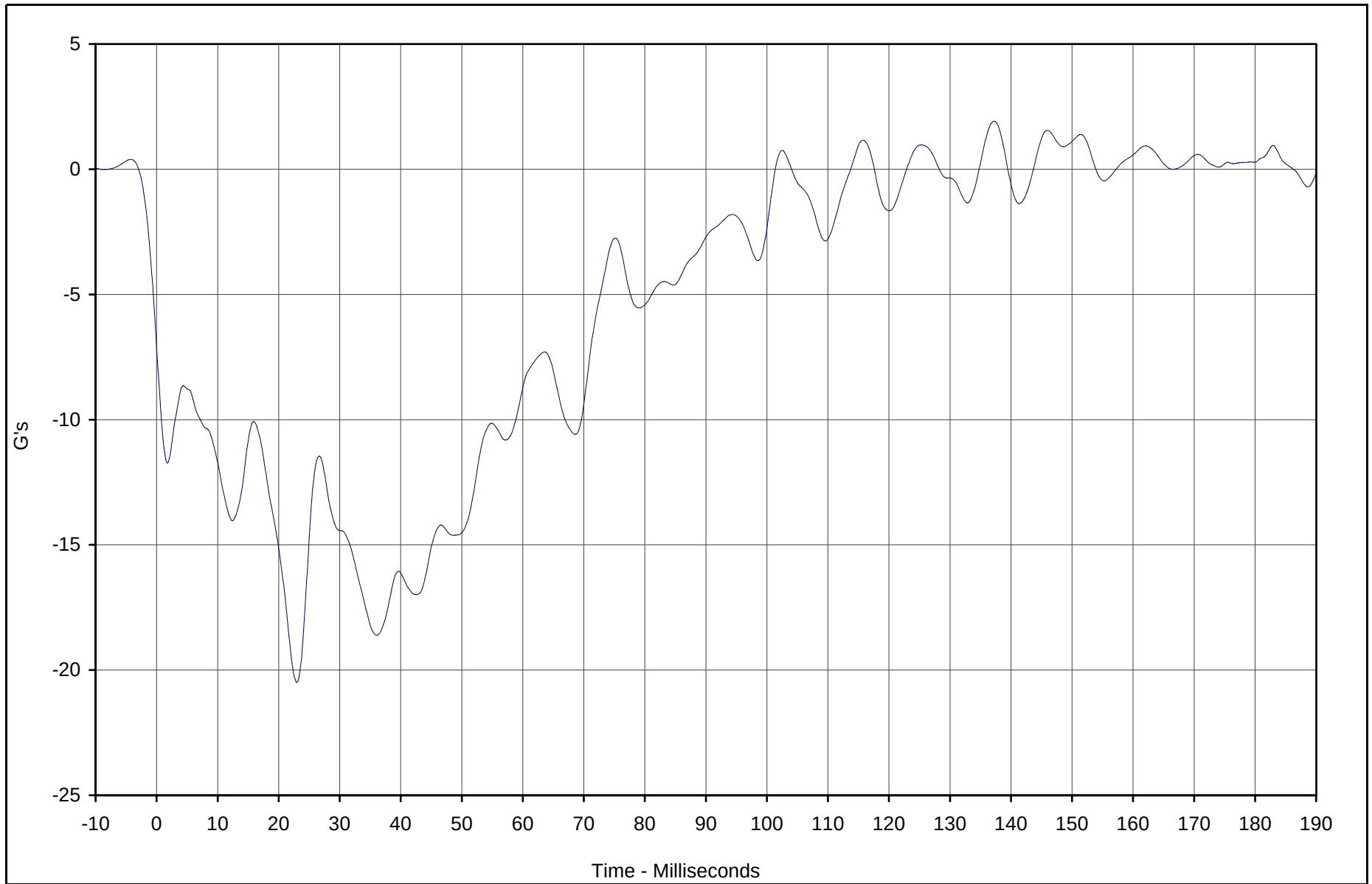


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
MDB CG X	071	FIL	G's	1.9	137.2	-20.5	23.0	60

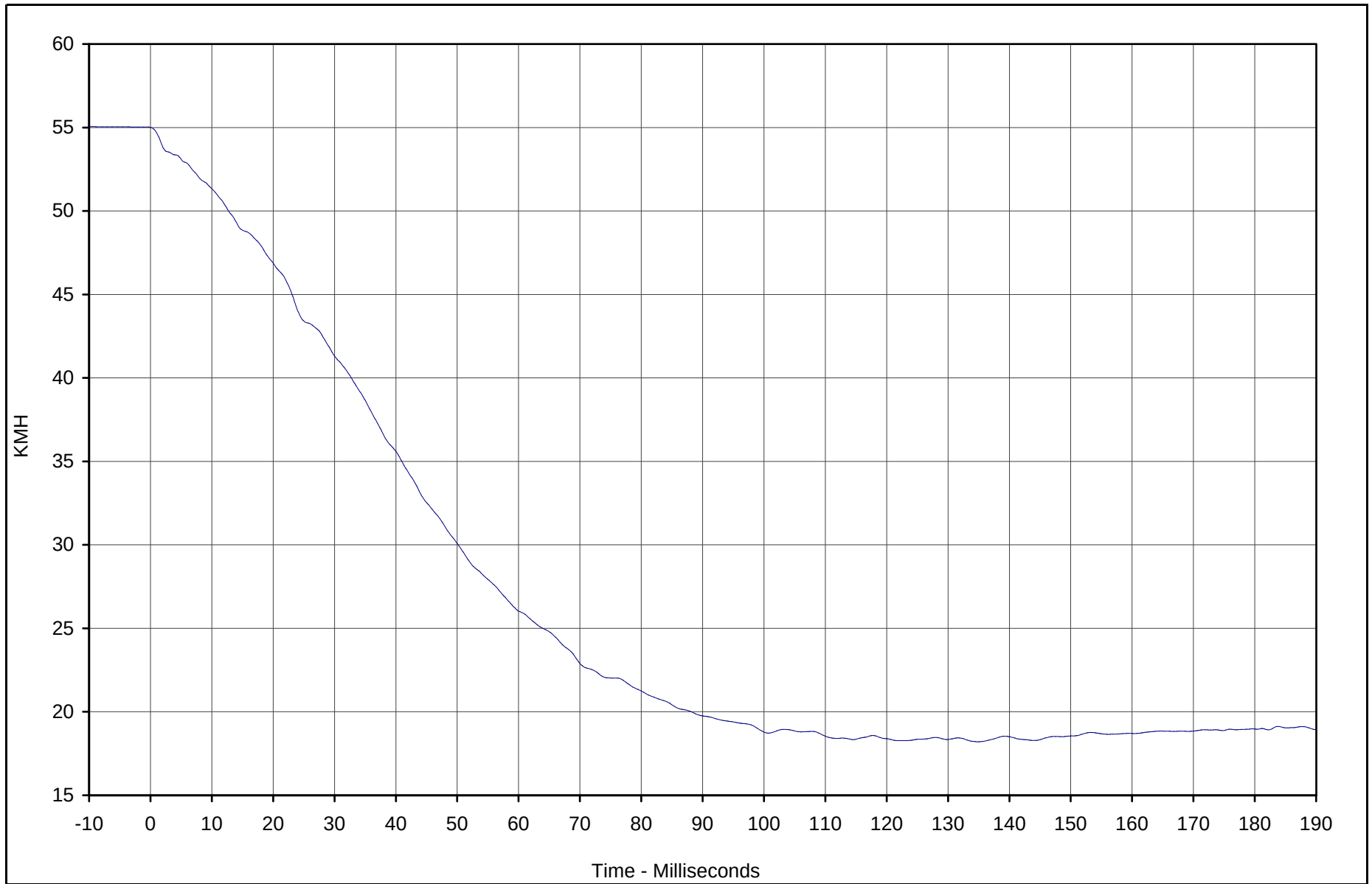


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
MDB CG X Velocity	071	IN1	KMH	55.0	0.0	18.2	134.8	180

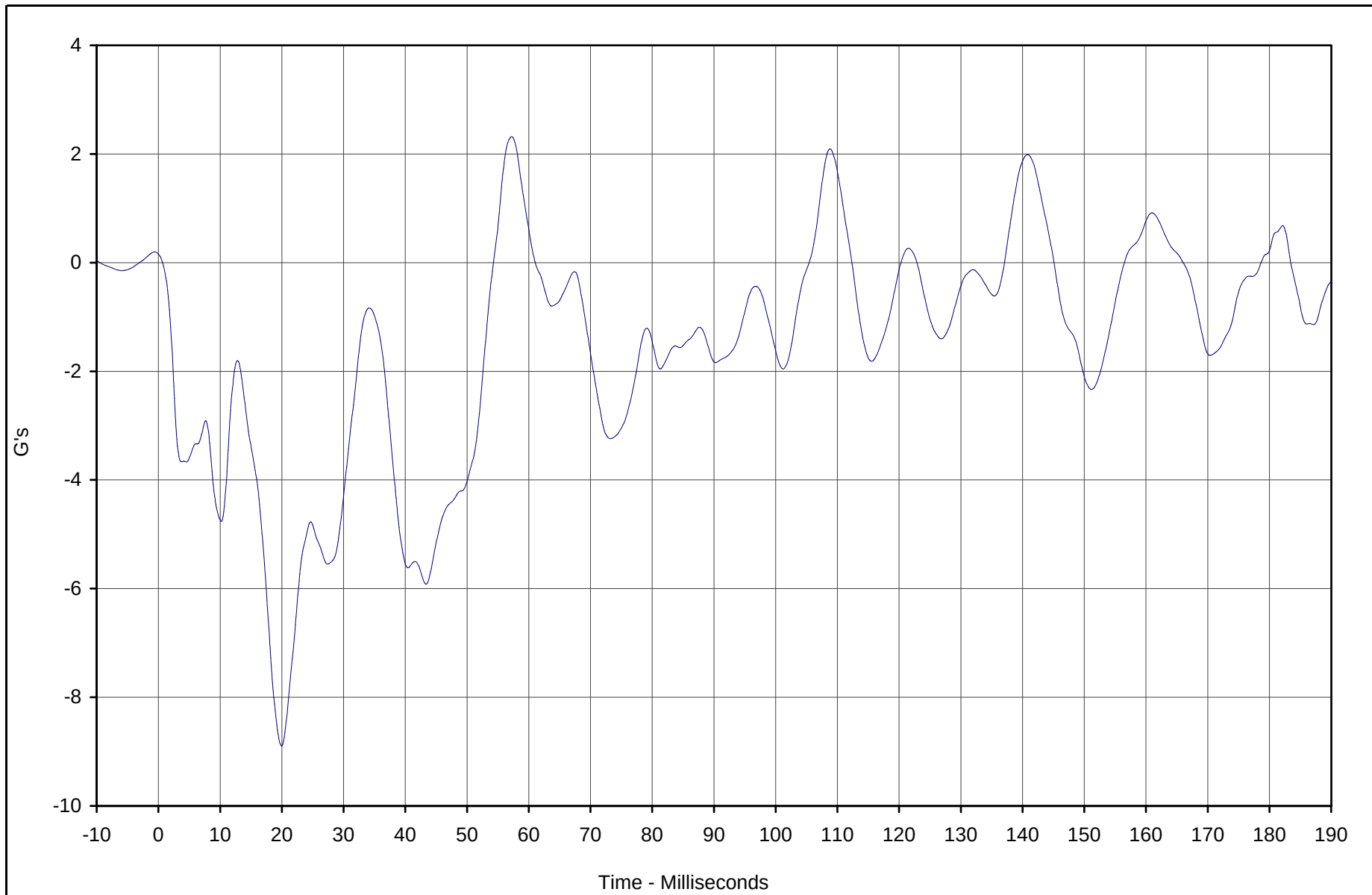


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
MDB CG Y	072	FIL	G's	2.3	57.2	-8.9	20.0	60

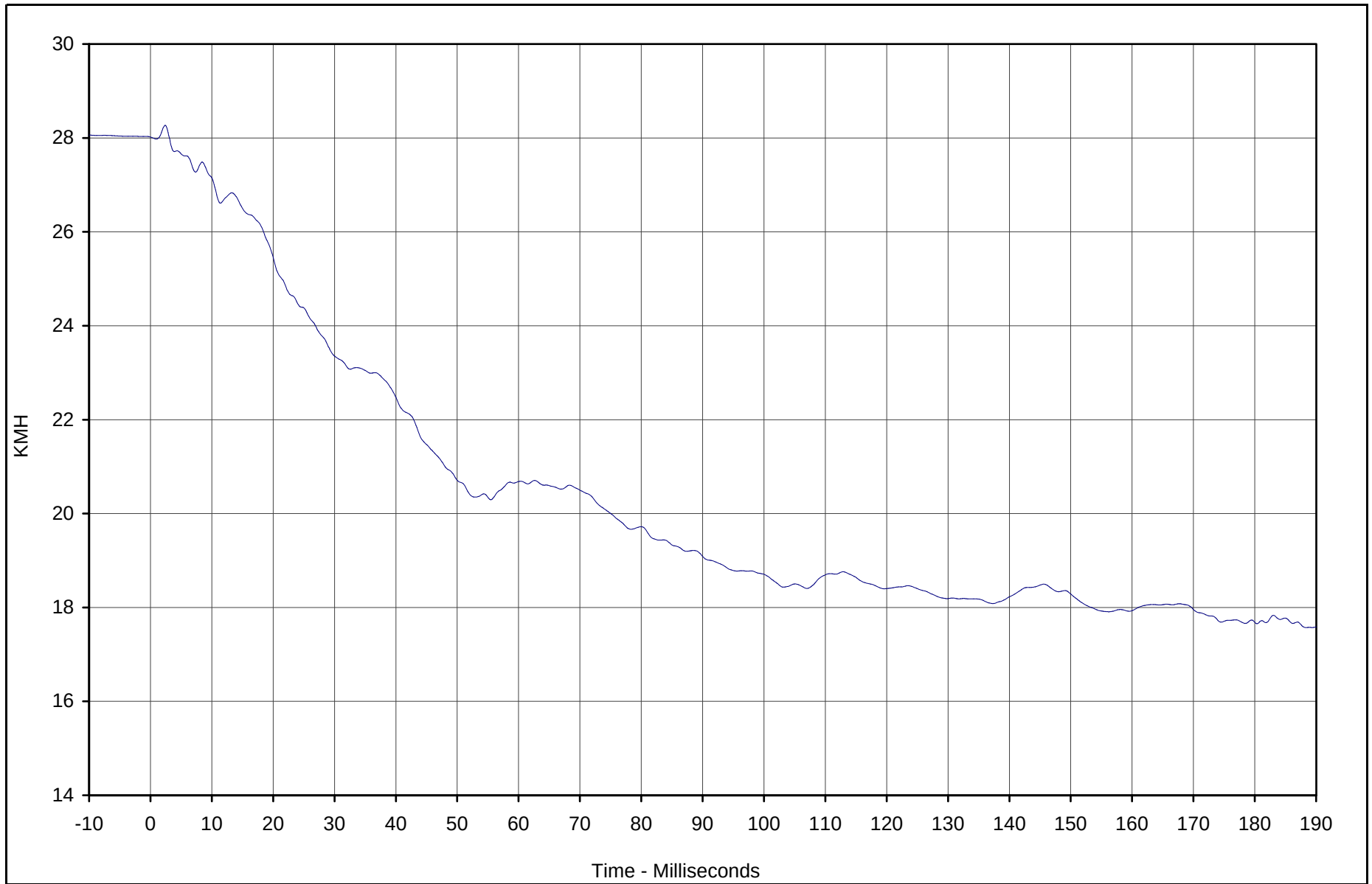


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
MDB CG Y Velocity	072	IN1	KMH	28.3	2.4	17.6	188.3	180

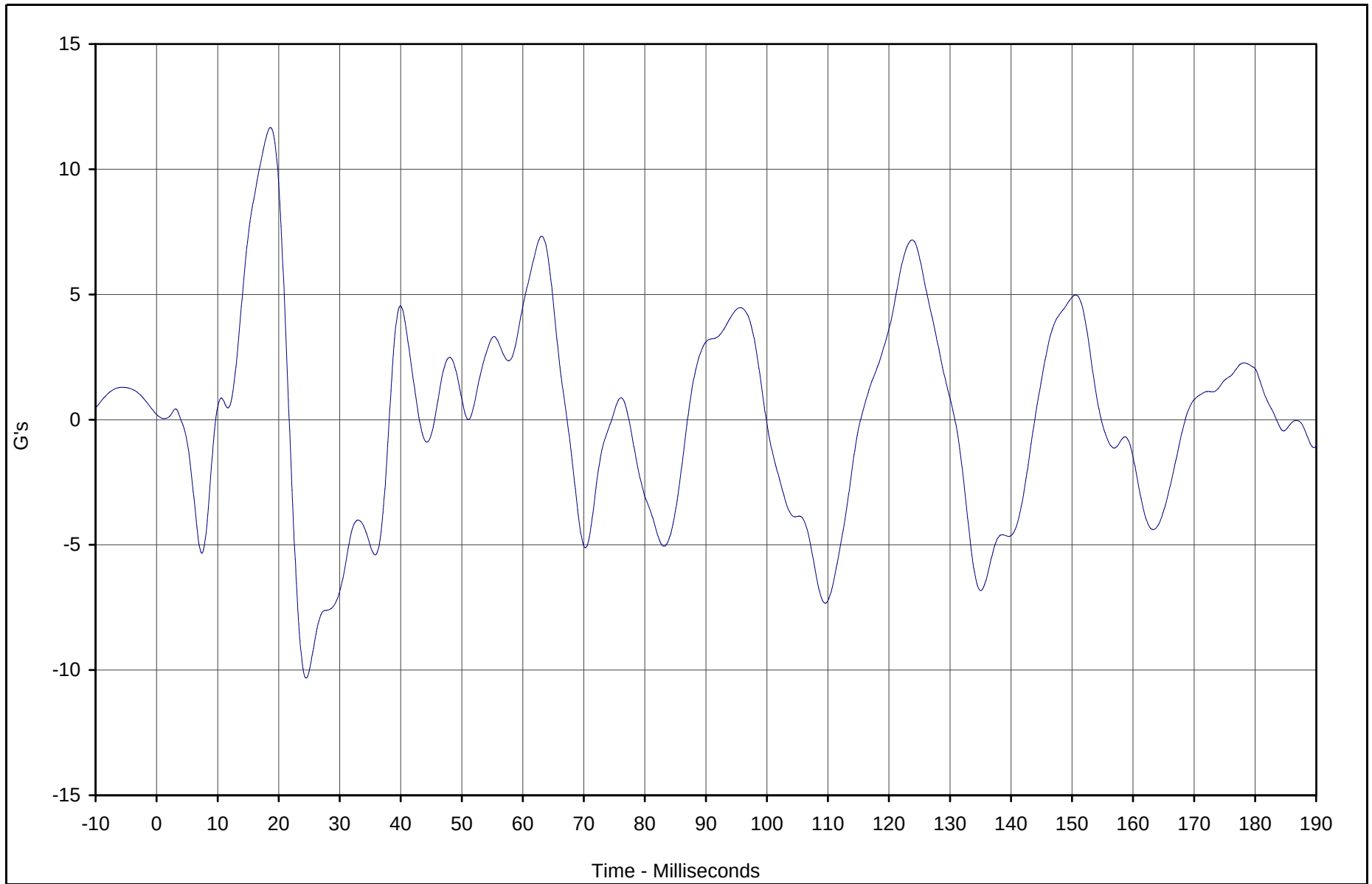


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
MDB CG Z	073	FIL	G's	11.7	18.6	-10.3	24.5	60

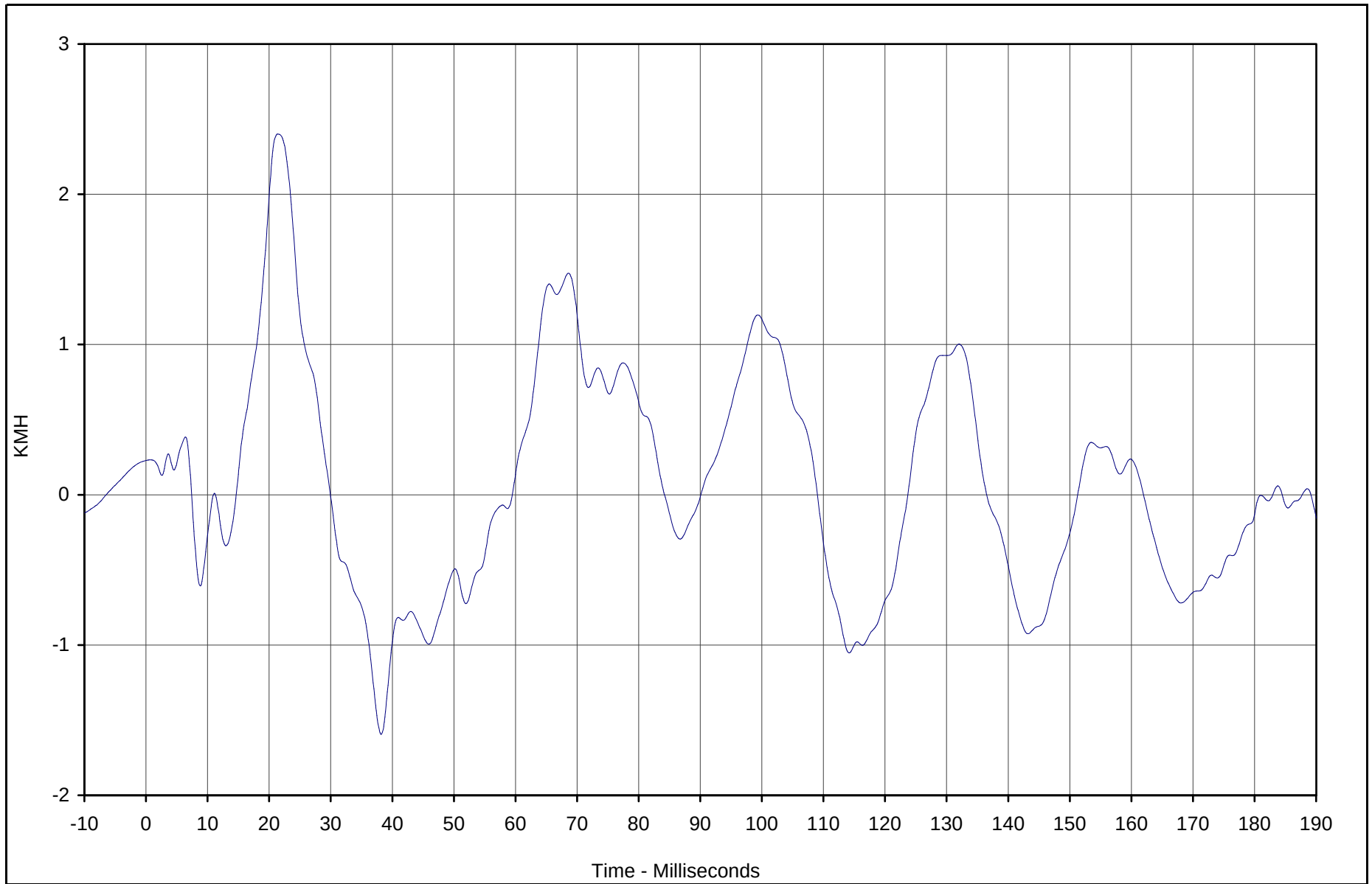


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
MDB CG Z Velocity	073	IN1	KMH	2.4	21.4	-1.6	38.2	180

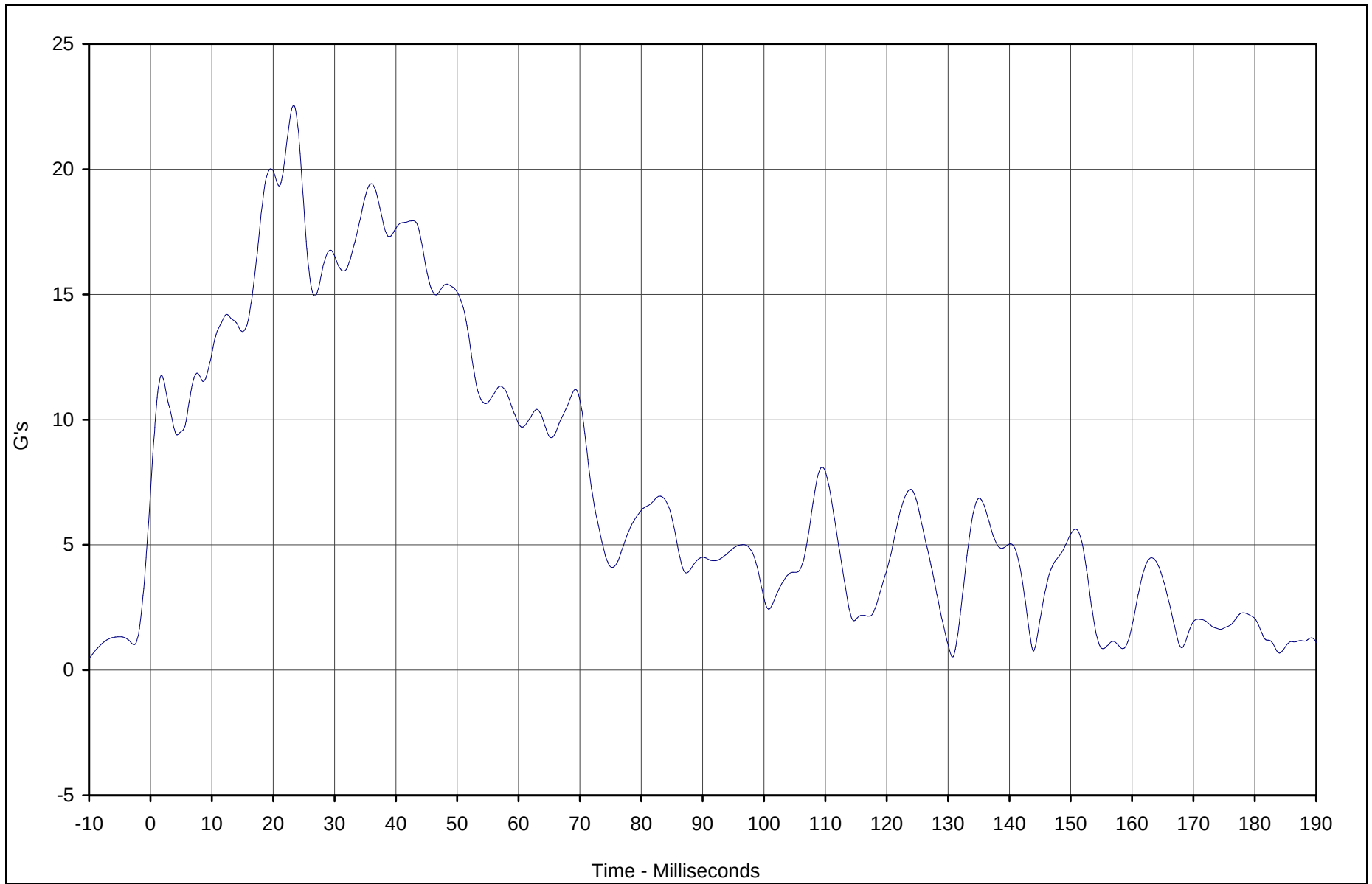


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
MDB CG Resultant	071	RES	G's	22.6	23.3	0.5	130.7	60

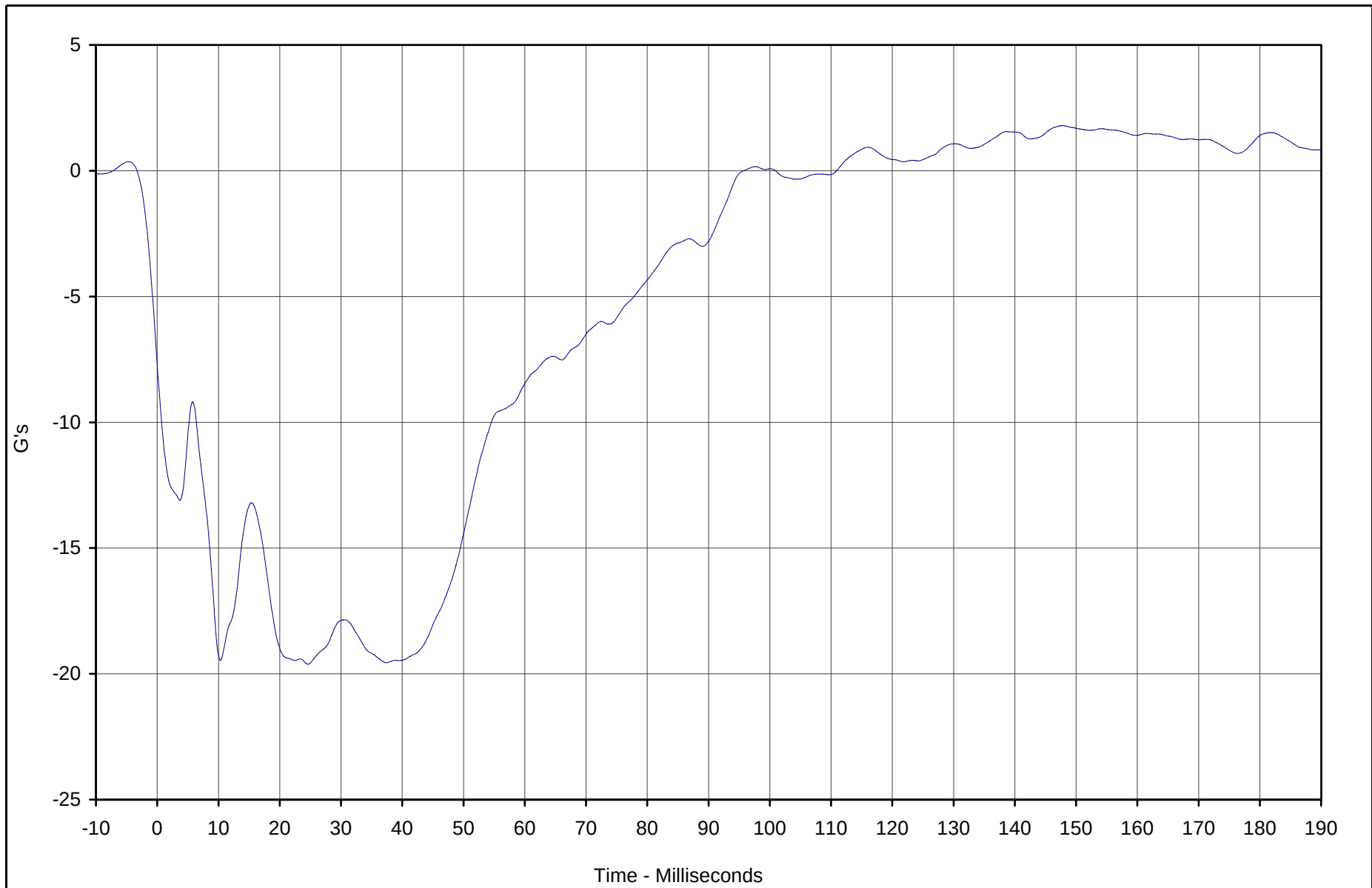


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
MDB Rear X	074	FIL	G's	1.8	147.8	-19.6	24.6	60

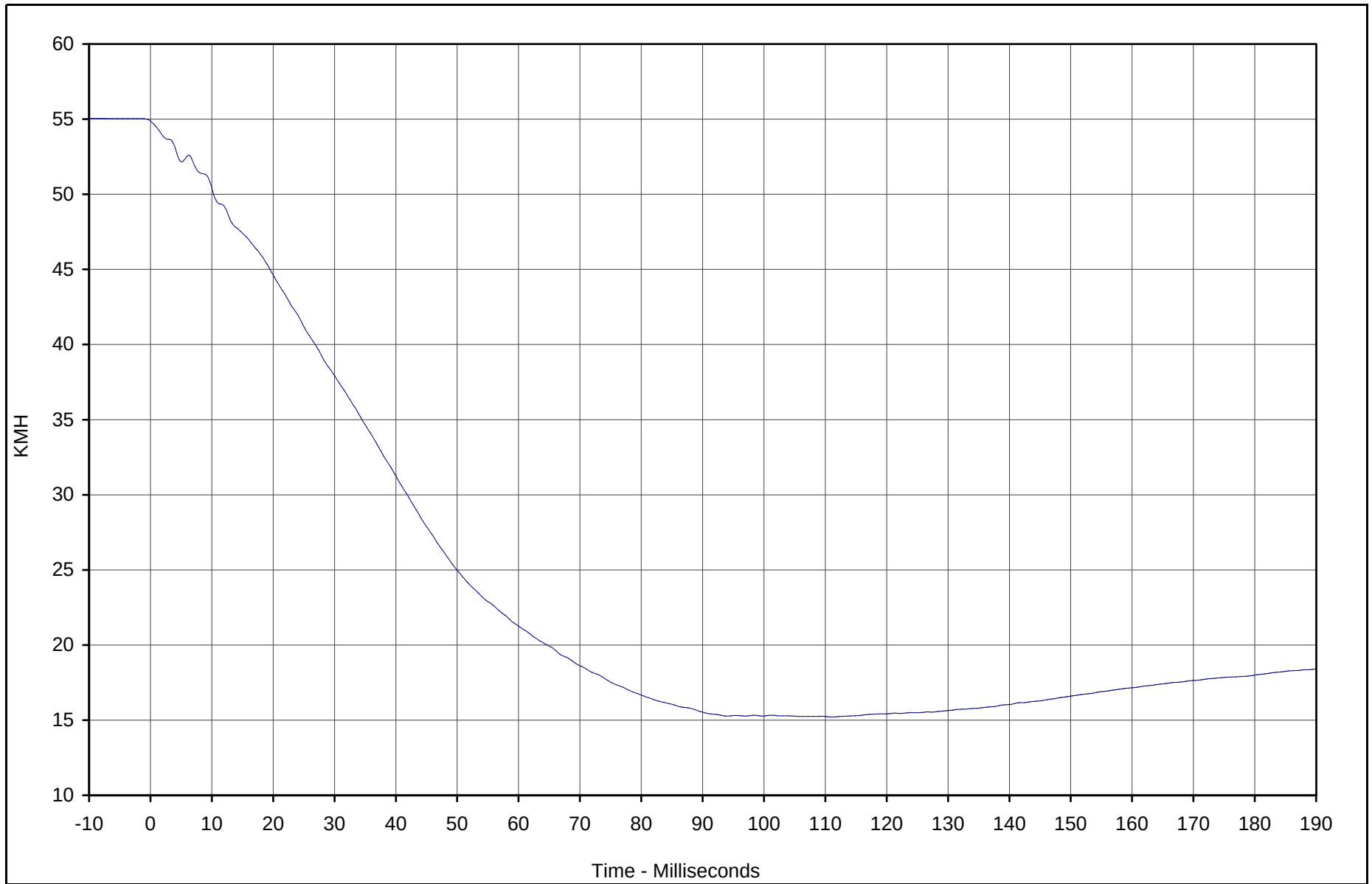


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
MDB Rear X Velocity	074	IN1	KMH	54.9	0.0	15.2	111.3	180

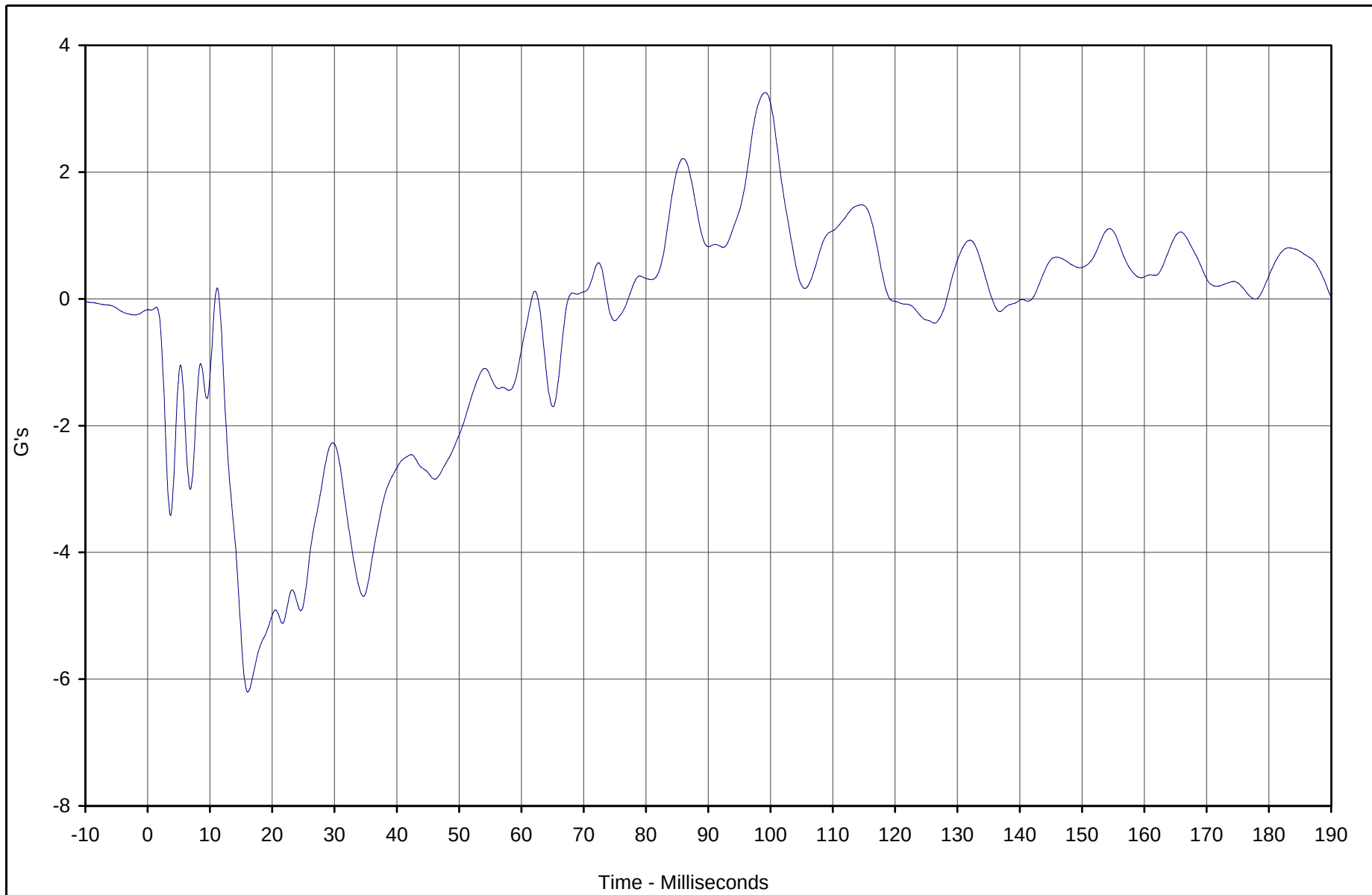


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
MDB Rear Y	075	FIL	G's	3.3	99.1	-6.2	16.1	60

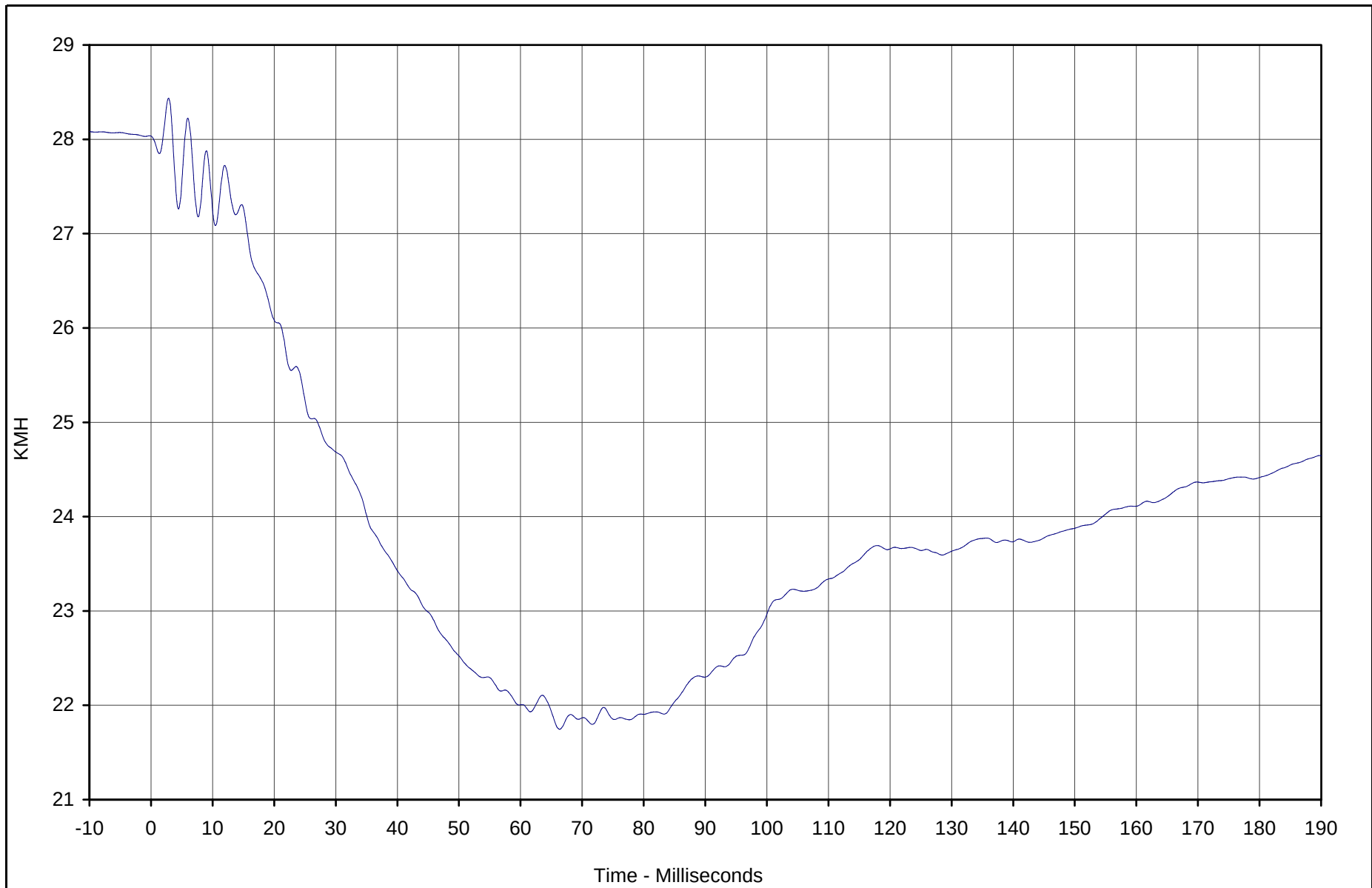


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
MDB Rear Y Velocity	075	IN1	KMH	28.4	2.9	21.7	66.4	180

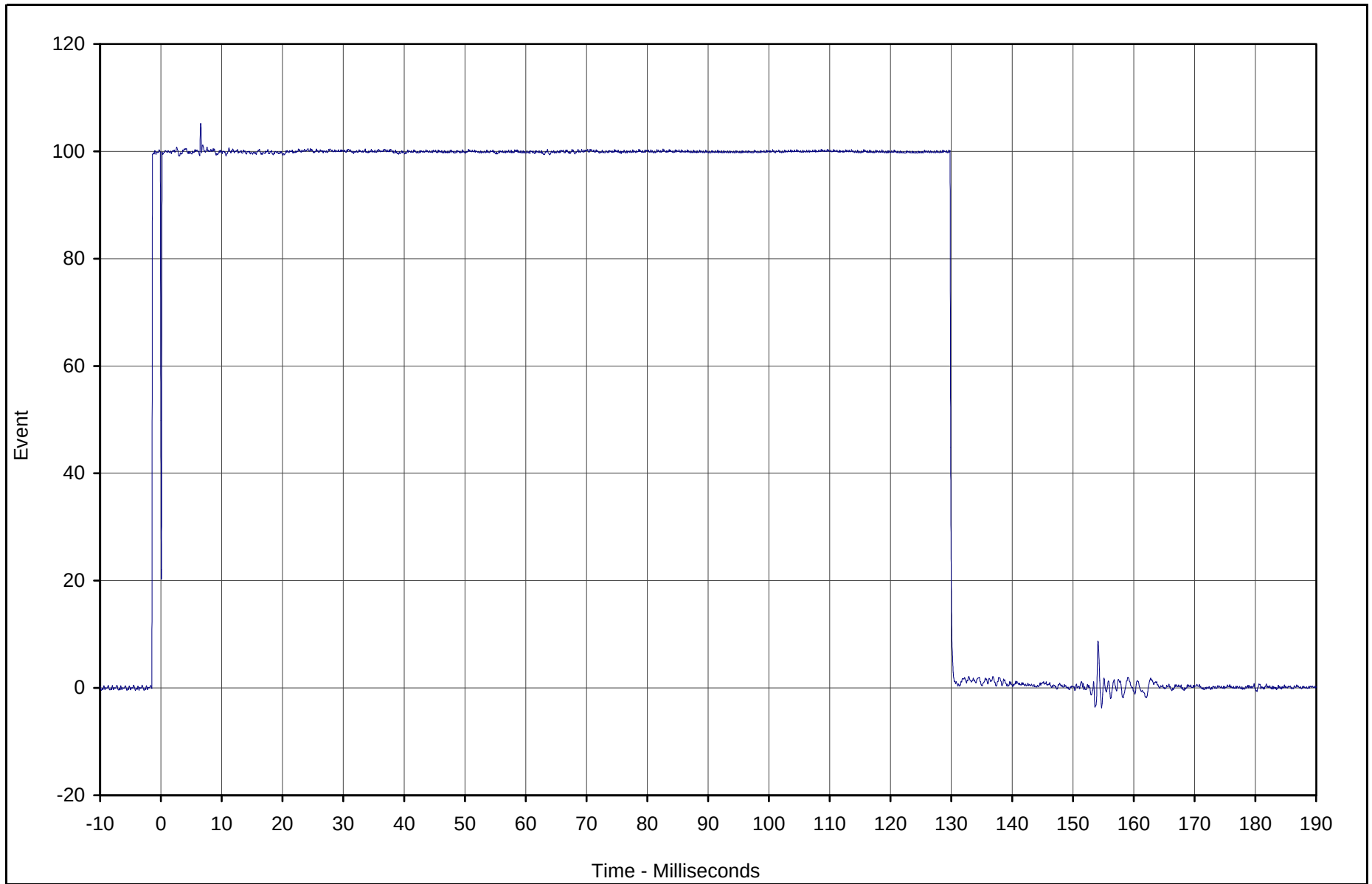


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Cross %	Time	SAE Class
MDB Right Bumper Contact	076	FIL	Event	105.1	6.5	50.0	-1.4	1000

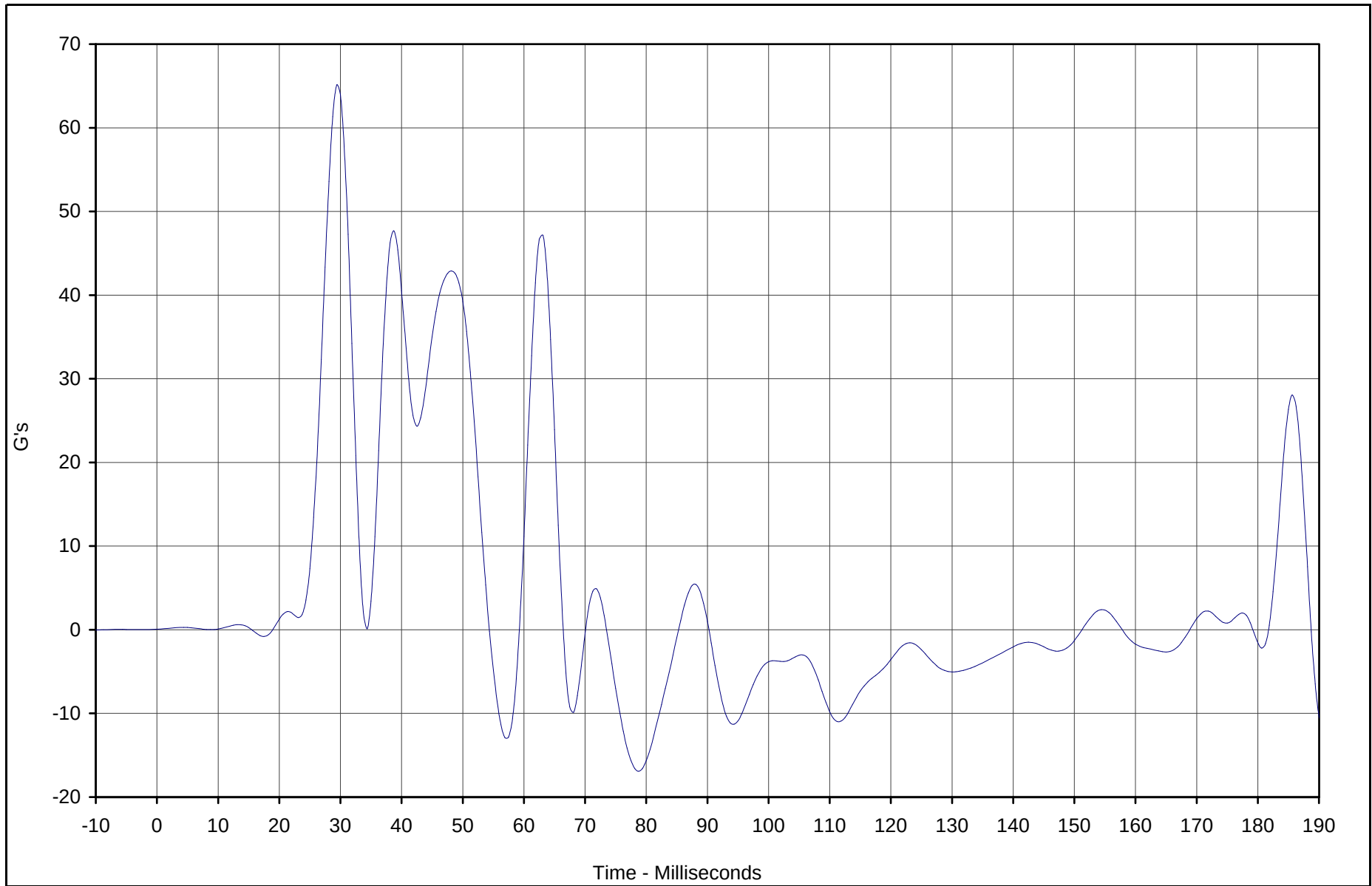


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Upper Rib Primary Y	013	FIR	G's	65.1	29.4	-16.9	78.8	FIR100

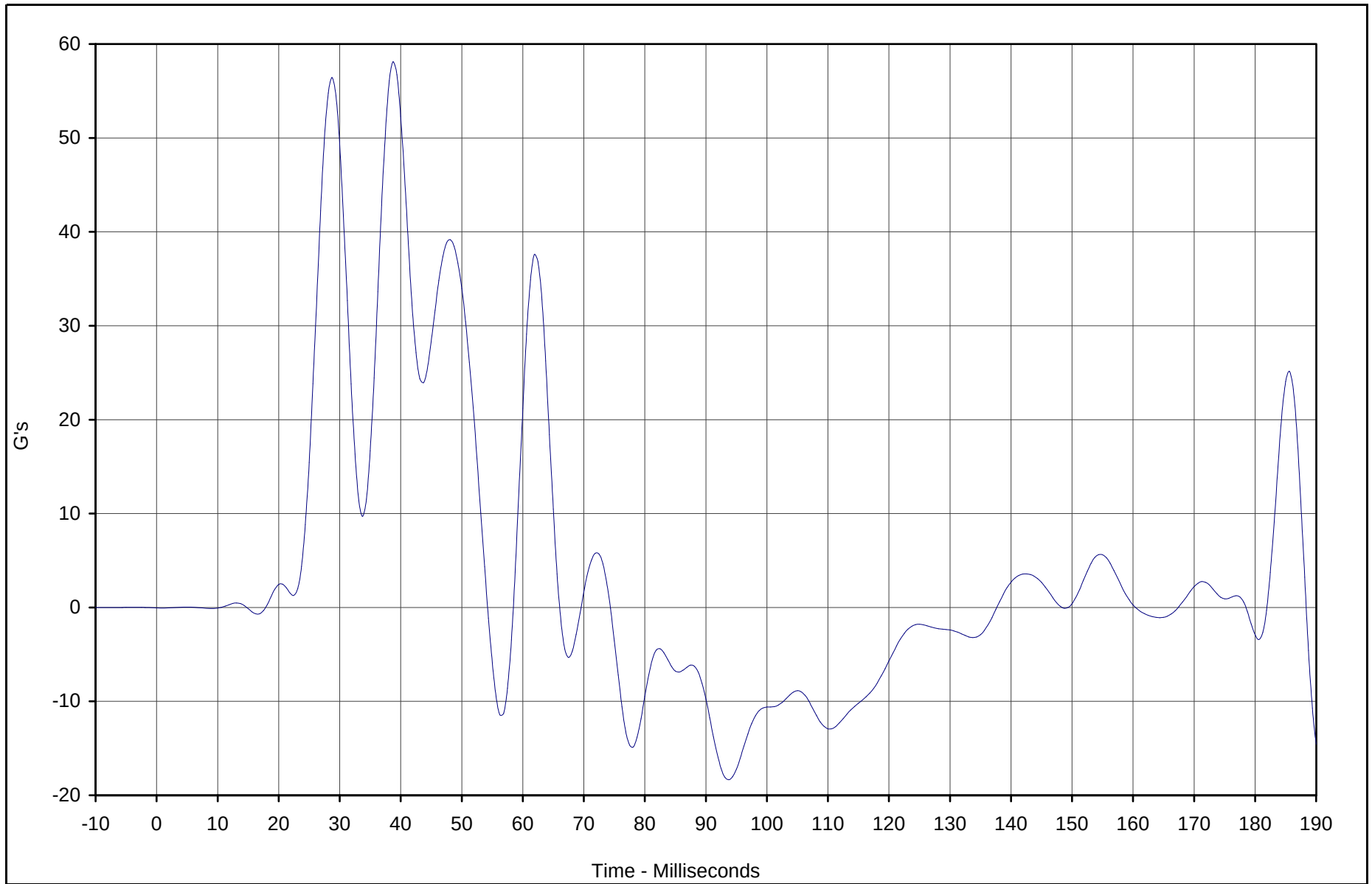


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Lower Rib Primary Y	014	FIR	G's	58.1	38.8	-18.4	93.8	FIR100

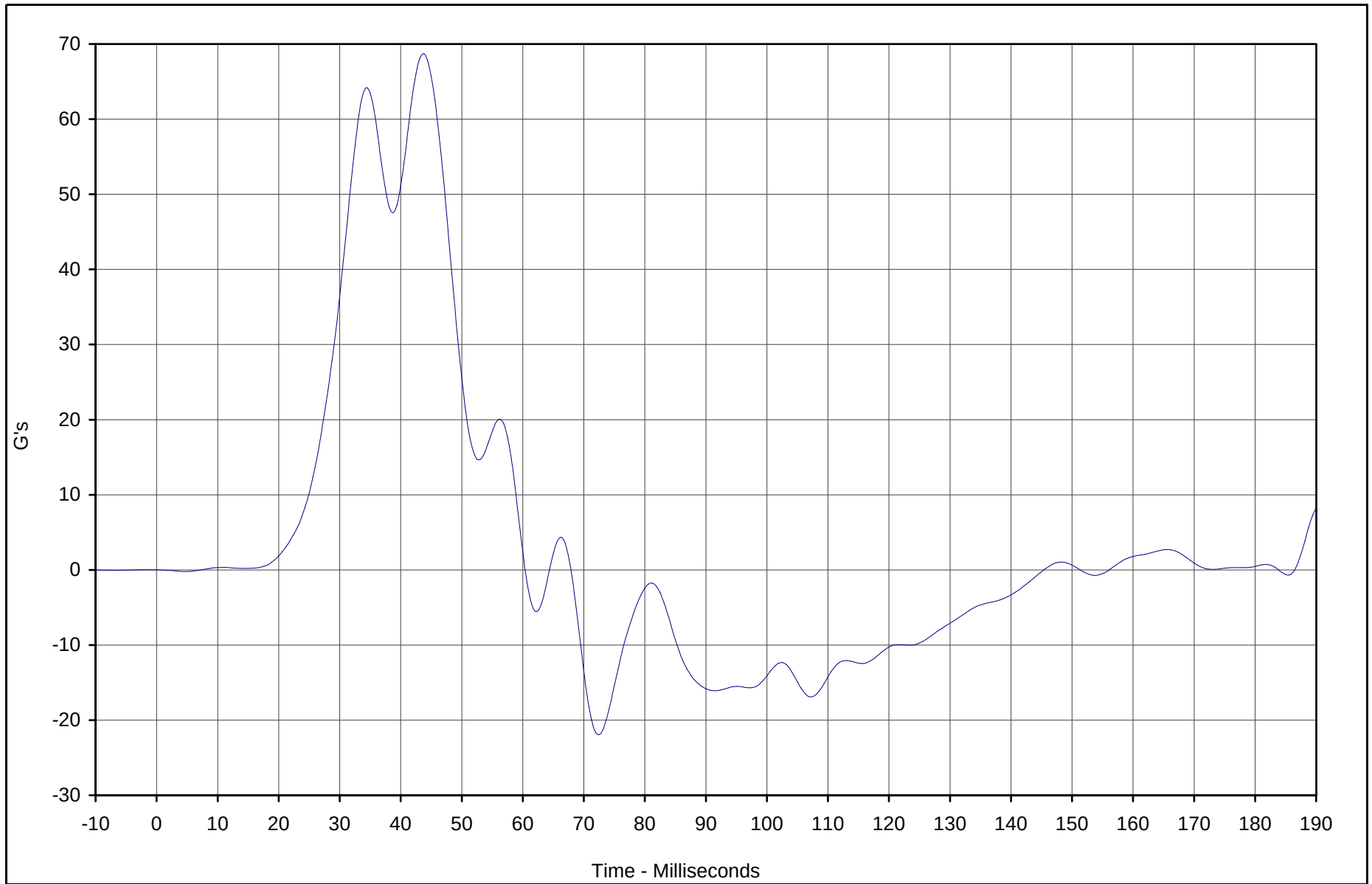


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Lower Spine Primary Y	015	FIR	G's	68.7	43.8	-21.9	72.5	FIR100

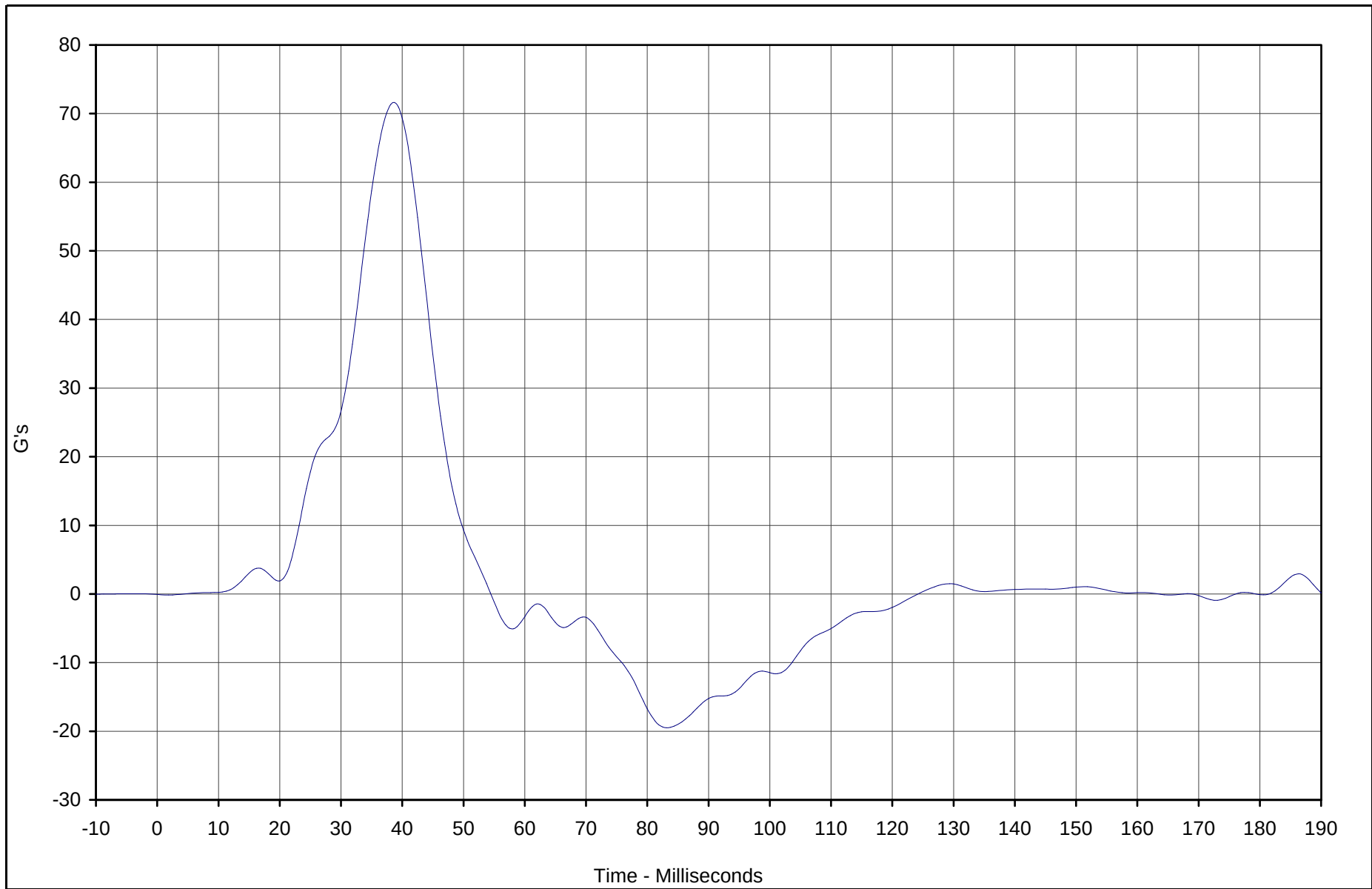


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Pelvis Primary Y	016	FIR	G's	71.6	38.8	-19.5	83.1	FIR100

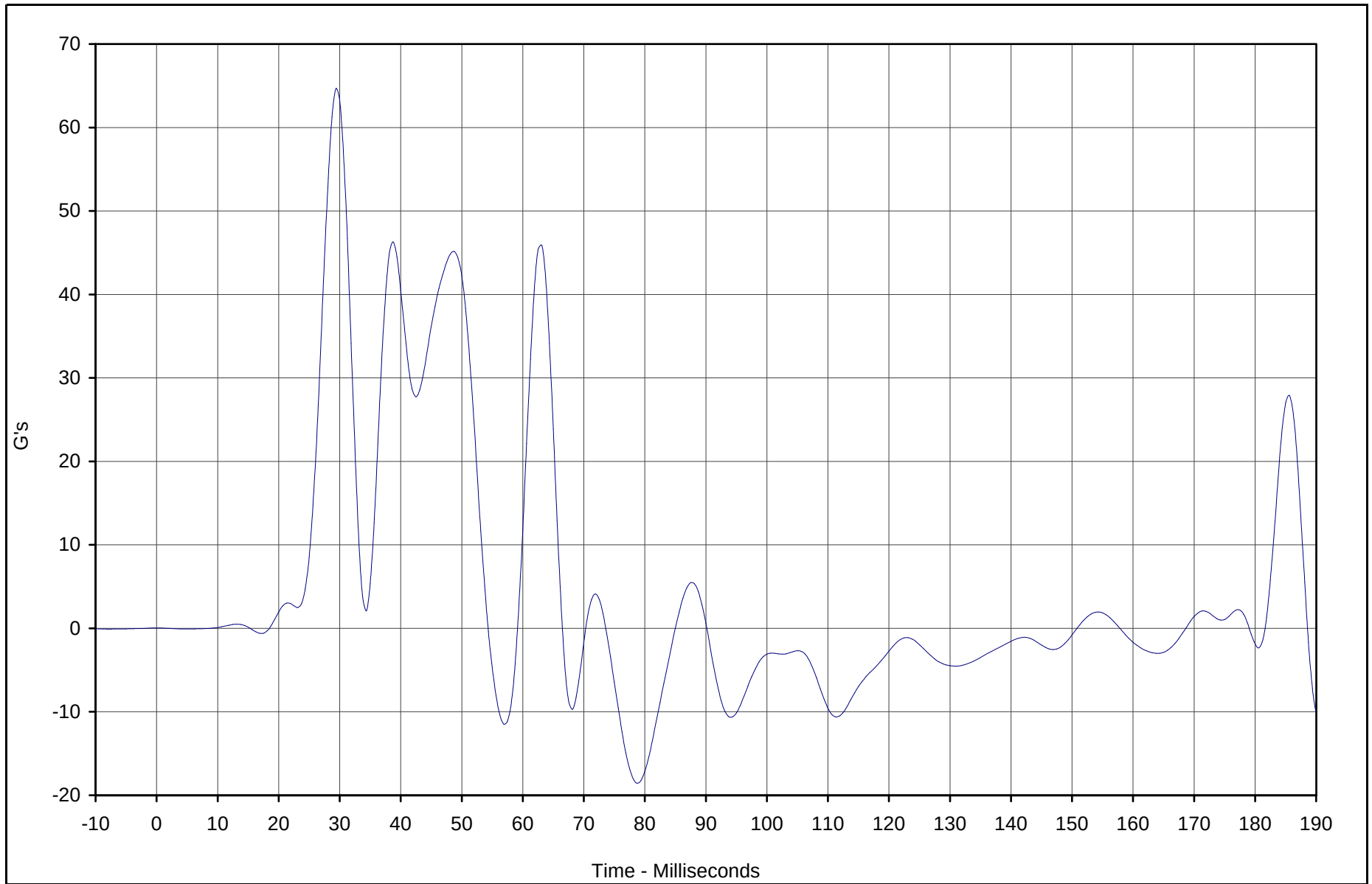


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Upper Rib Redundant Y	017	FIR	G's	64.7	29.4	-18.6	78.8	FIR100

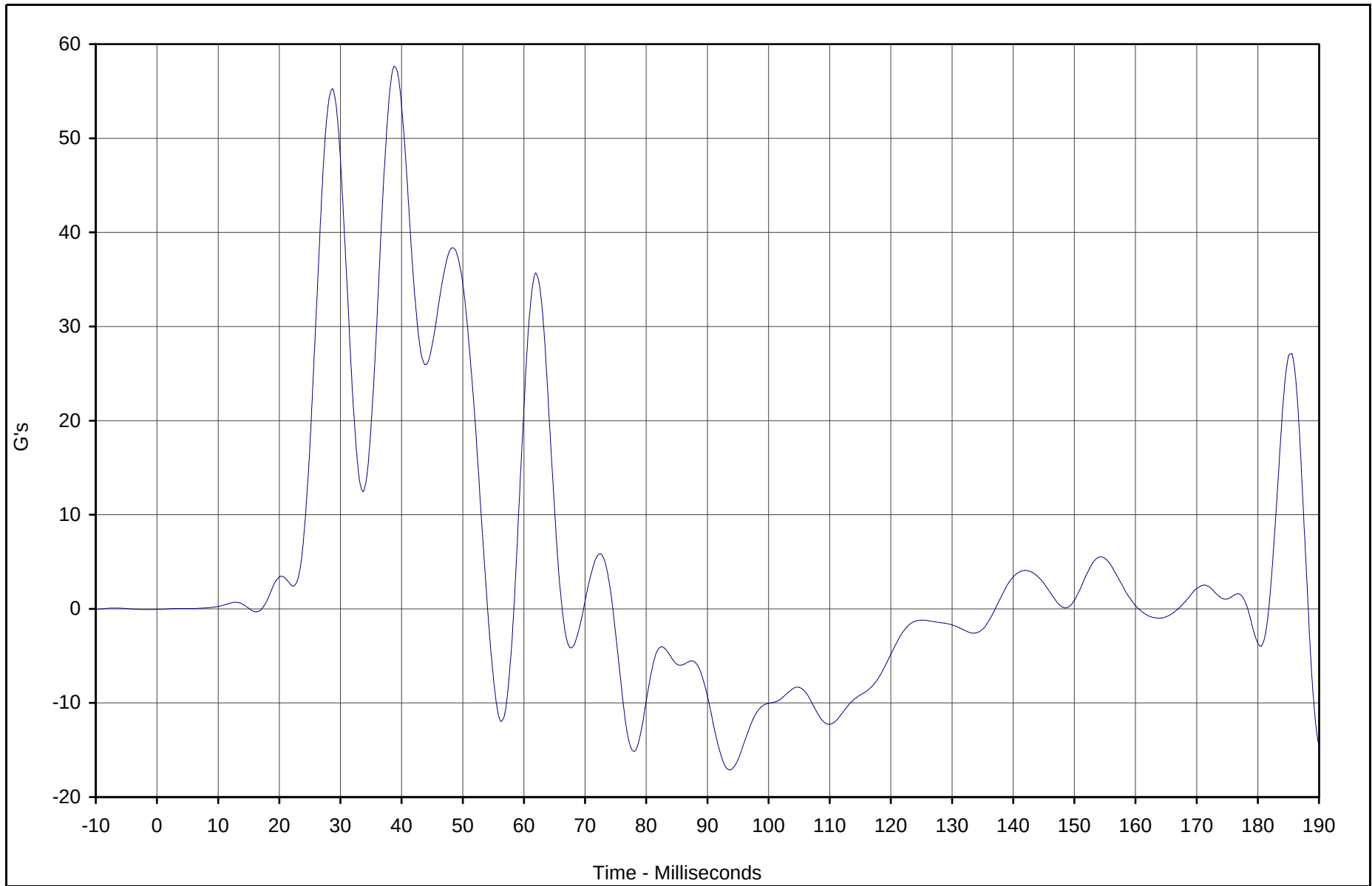


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Lower Rib Redundant Y	018	FIR	G's	57.6	38.8	-17.1	93.8	FIR100

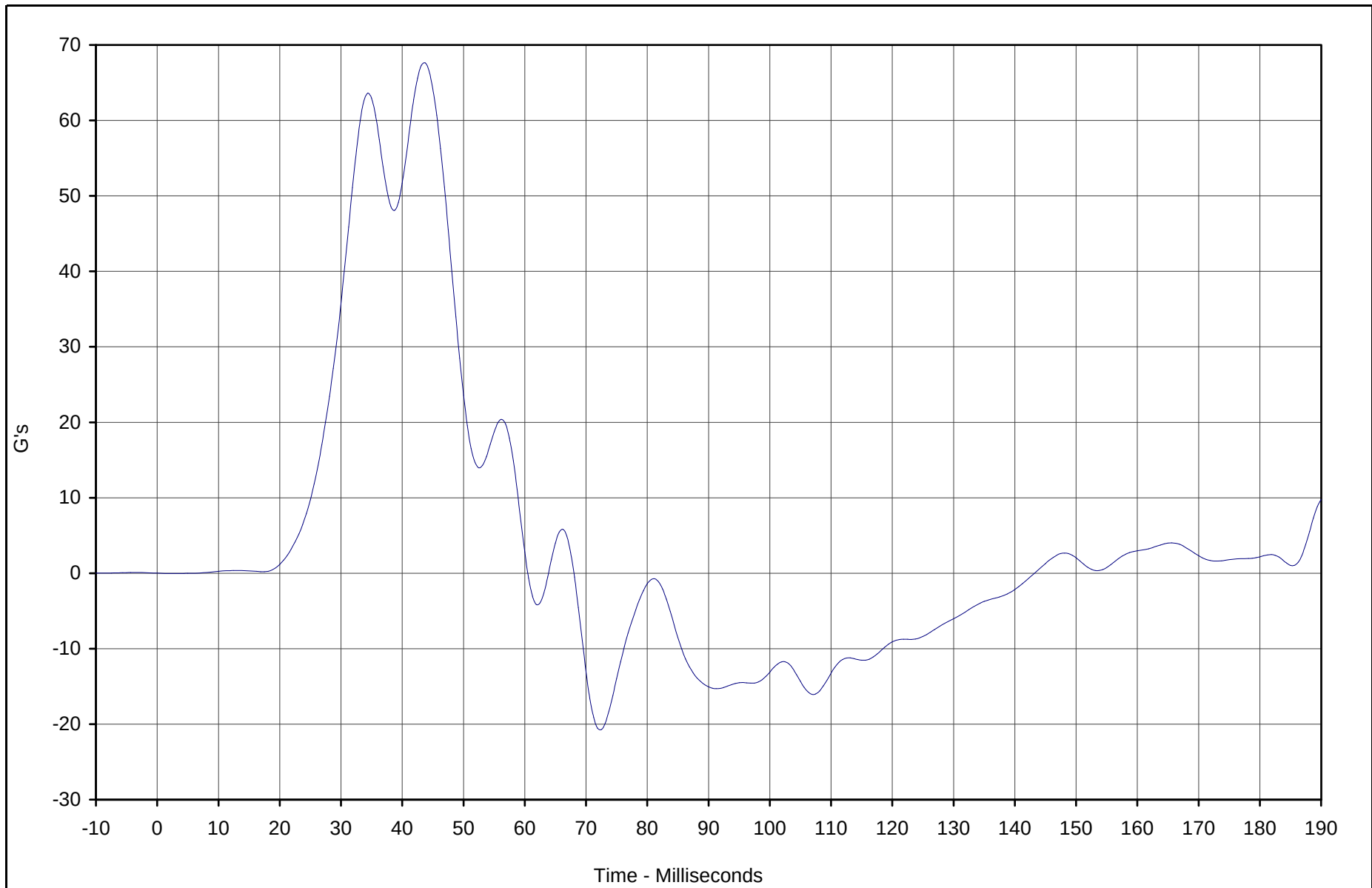


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Lower Spine Redundant Y	019	FIR	G's	67.6	43.8	-20.7	72.5	FIR100

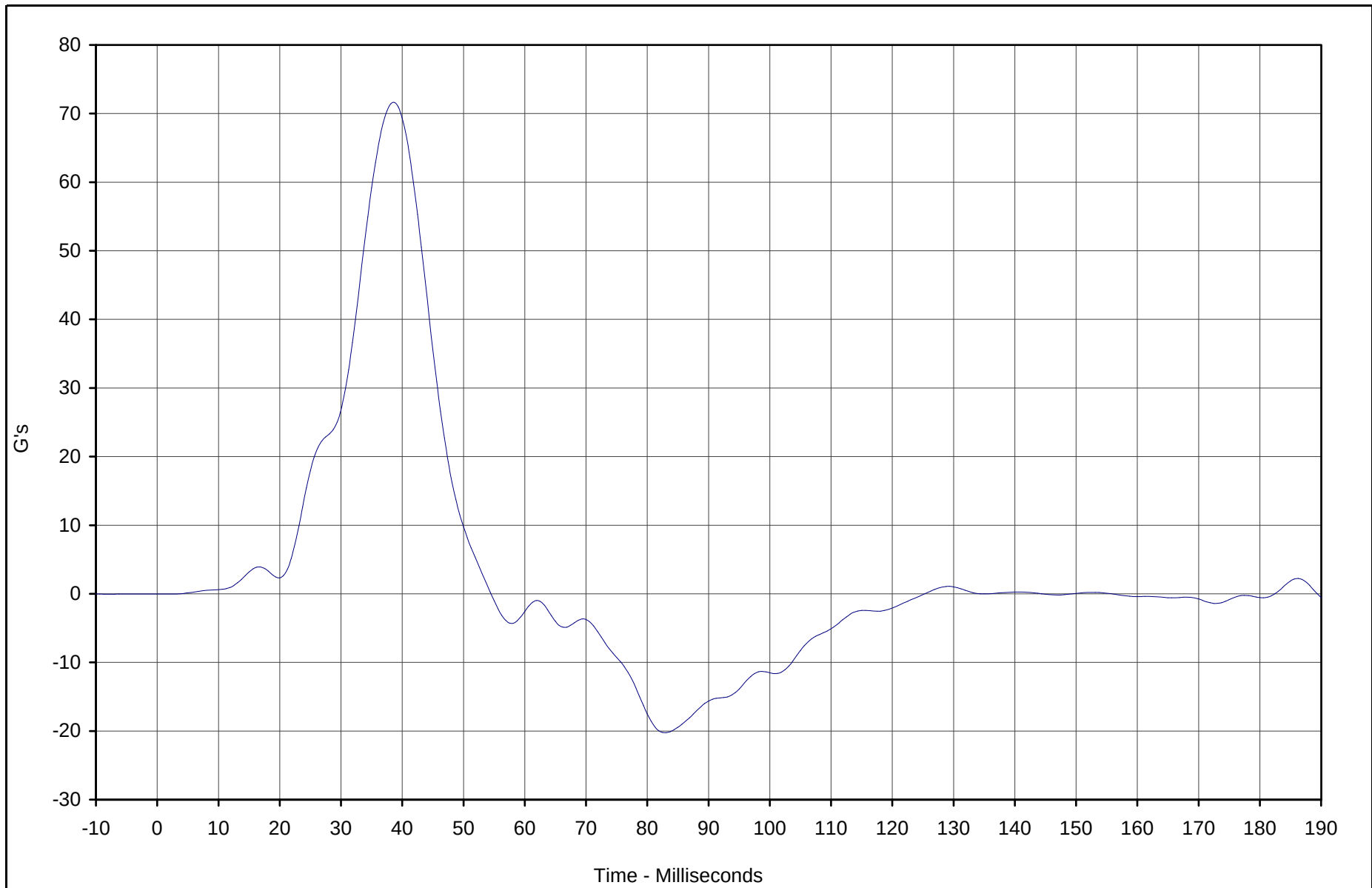


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Driver Pelvis Redundant Y	020	FIR	G's	71.6	38.8	-20.2	83.1	FIR100

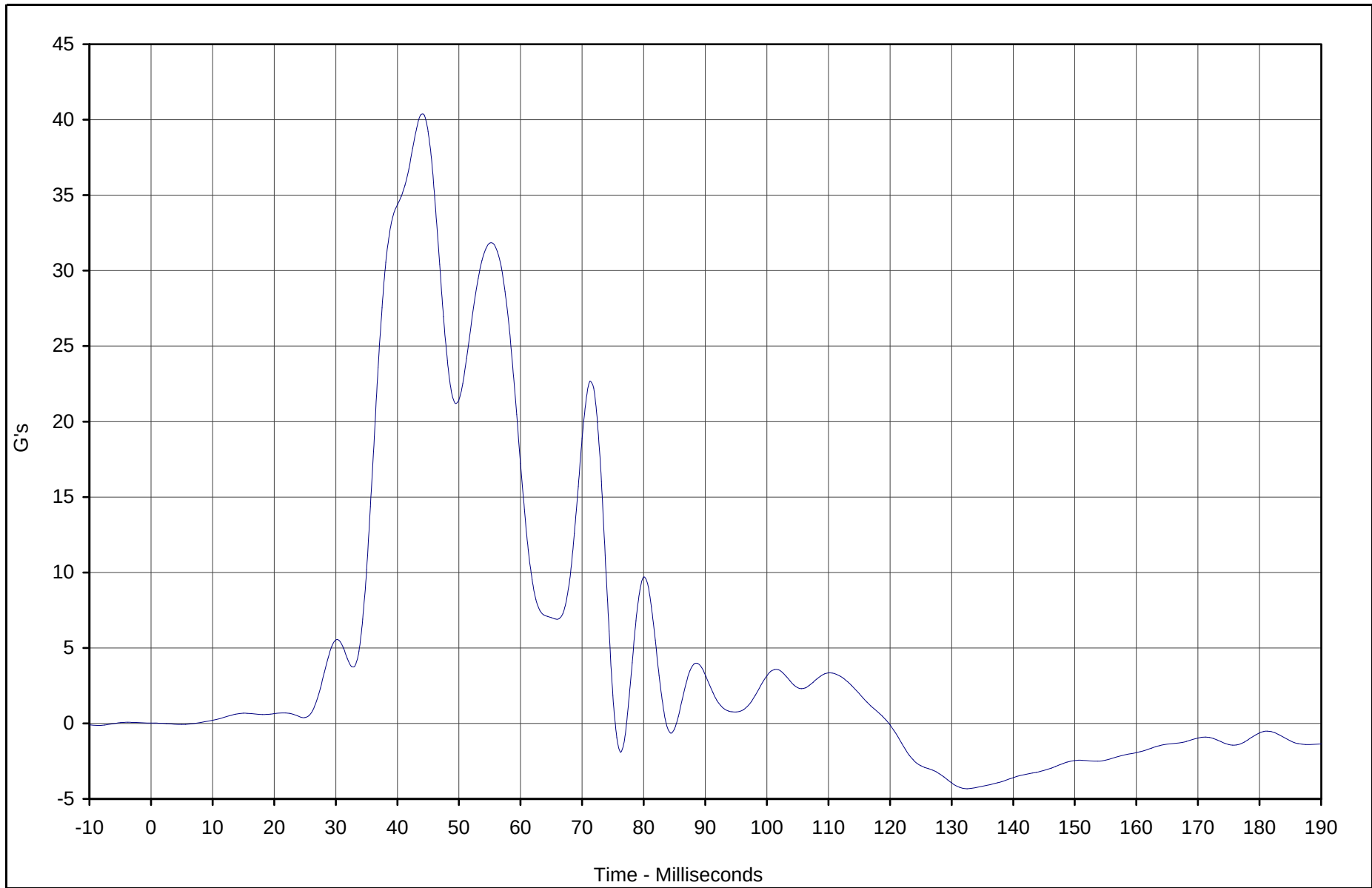


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Upper Rib Primary Y	035	FIR	G's	40.3	44.4	-4.3	132.5	FIR100

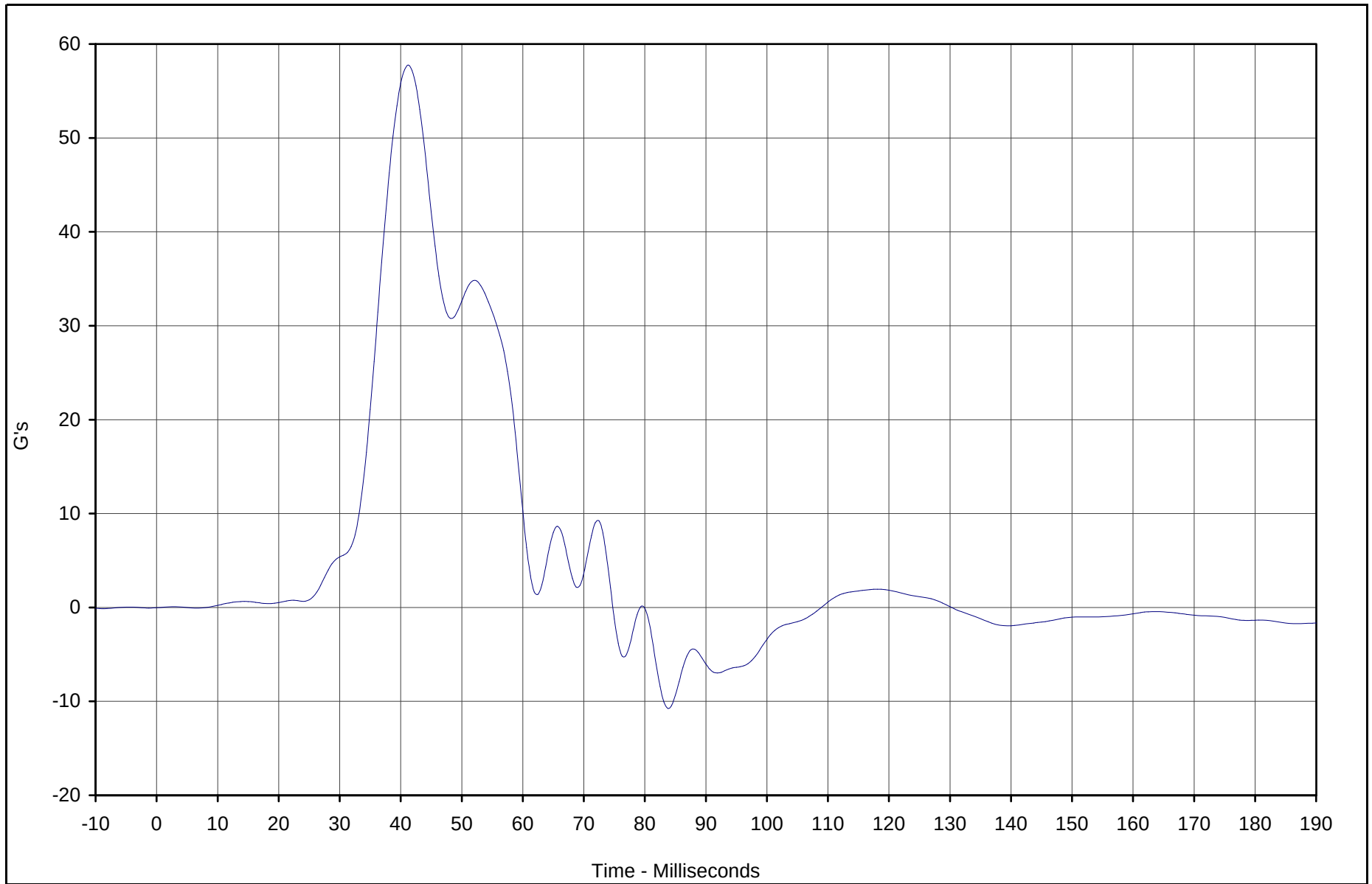


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Lower Rib Primary Y	036	FIR	G's	57.8	41.3	-10.7	83.8	FIR100

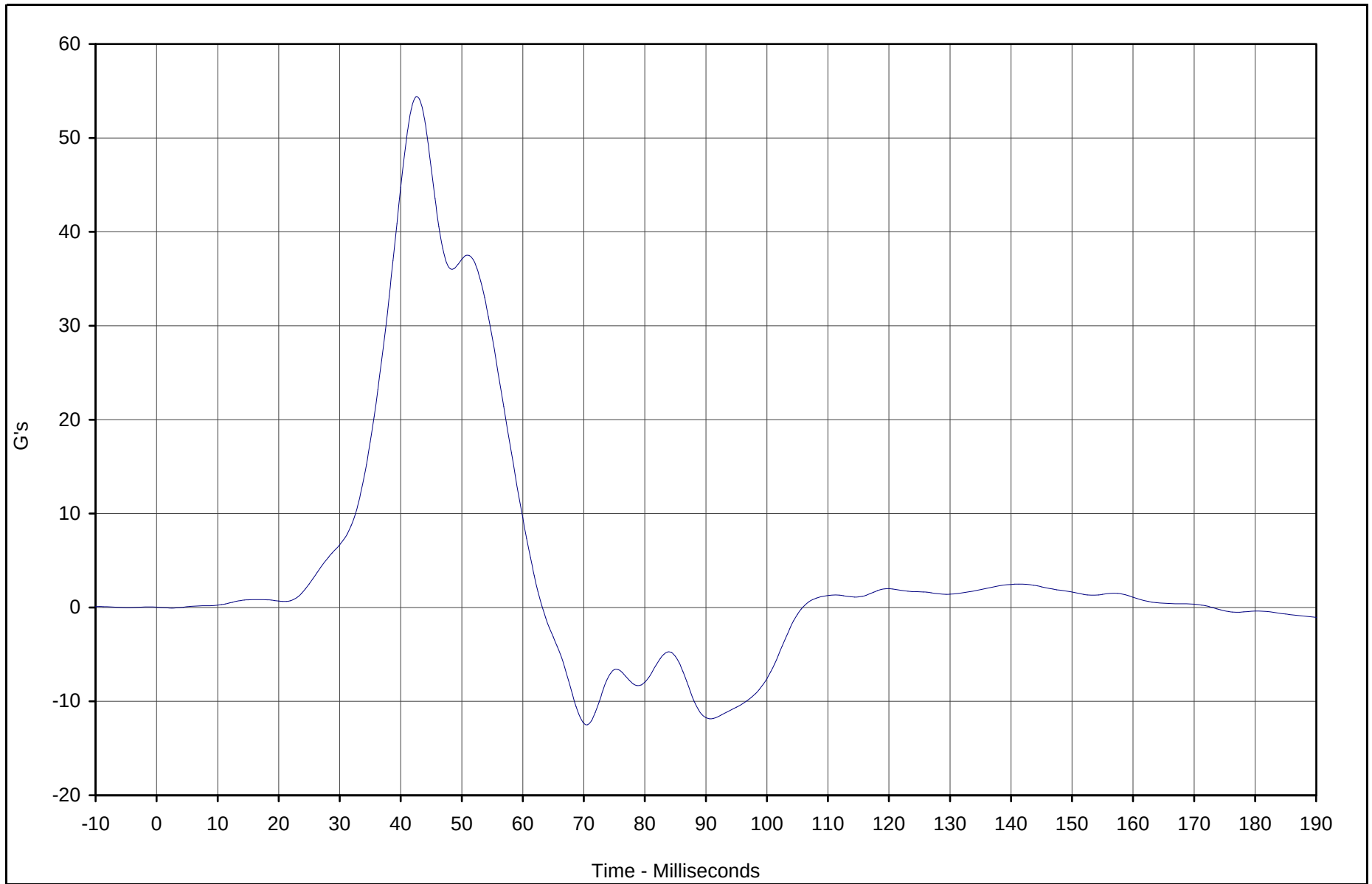


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Lower Spine Primary Y	037	FIR	G's	54.4	42.5	-12.5	70.6	FIR100

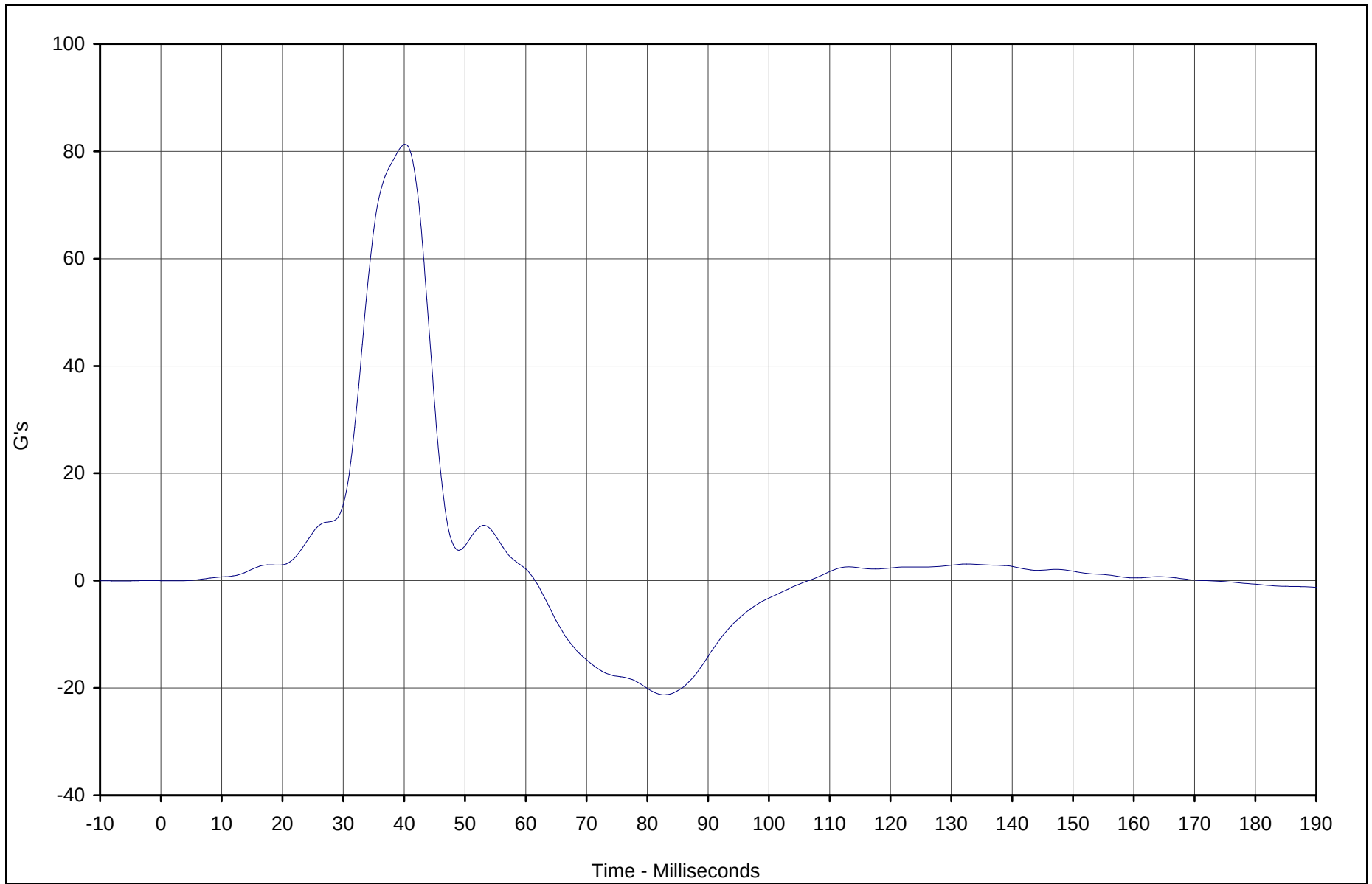


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Pelvis Primary Y	038	FIR	G's	81.3	40.0	-21.3	82.5	FIR100

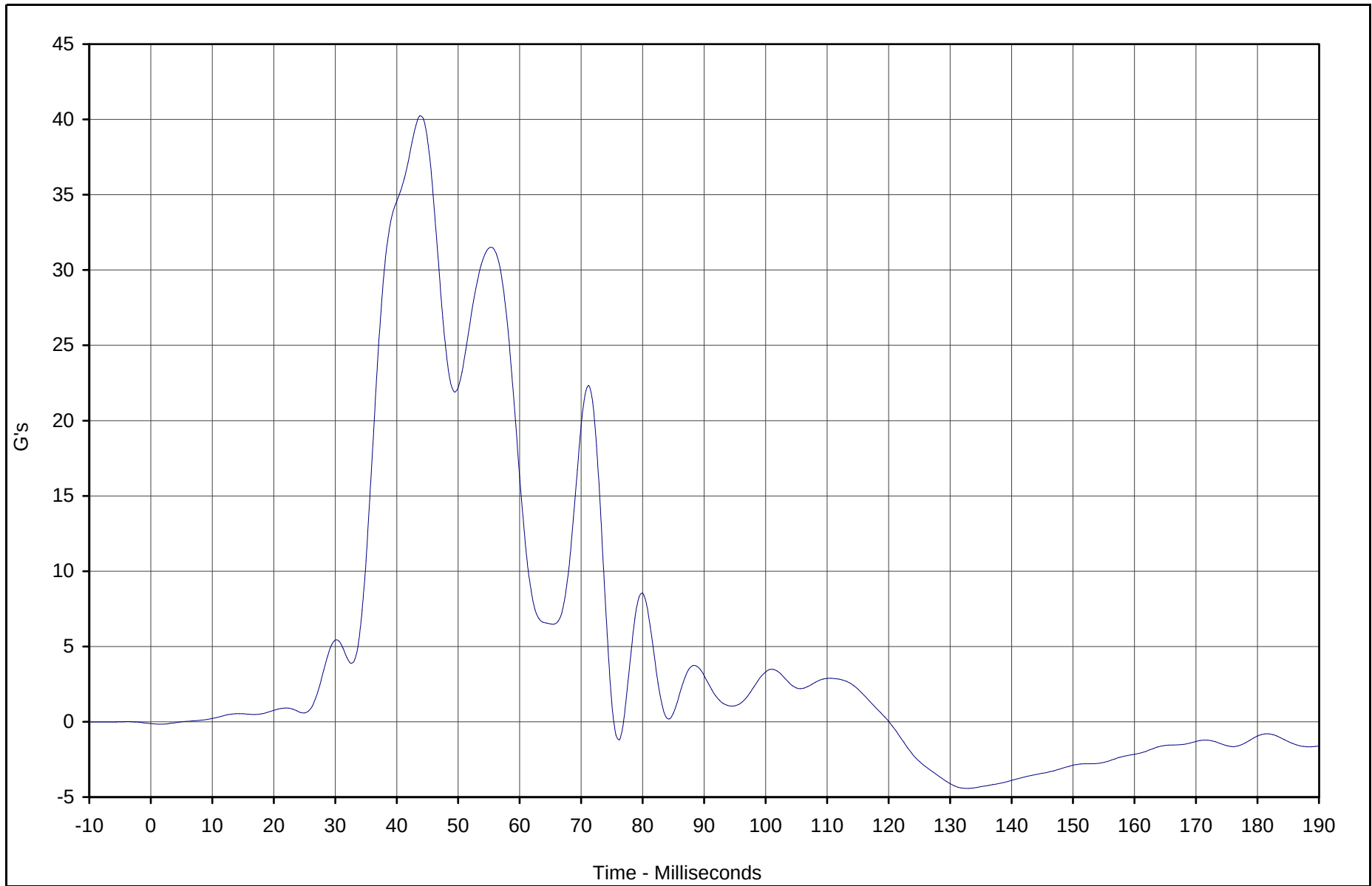


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Upper Rib Redundant Y	039	FIR	G's	40.2	43.8	-4.4	132.5	FIR100

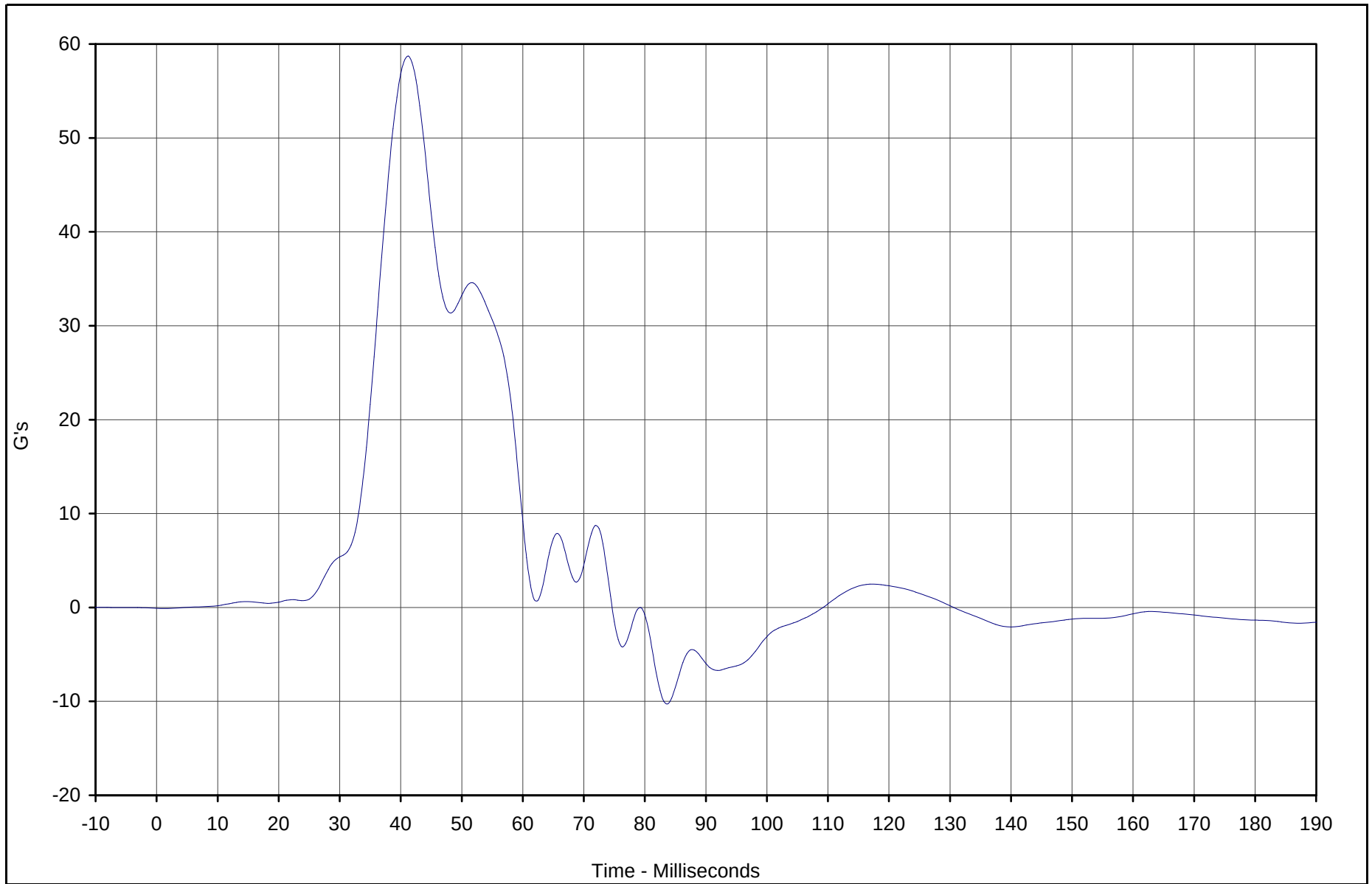


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Lower Rib Redundant Y	040	FIR	G's	58.7	41.3	-10.3	83.8	FIR100

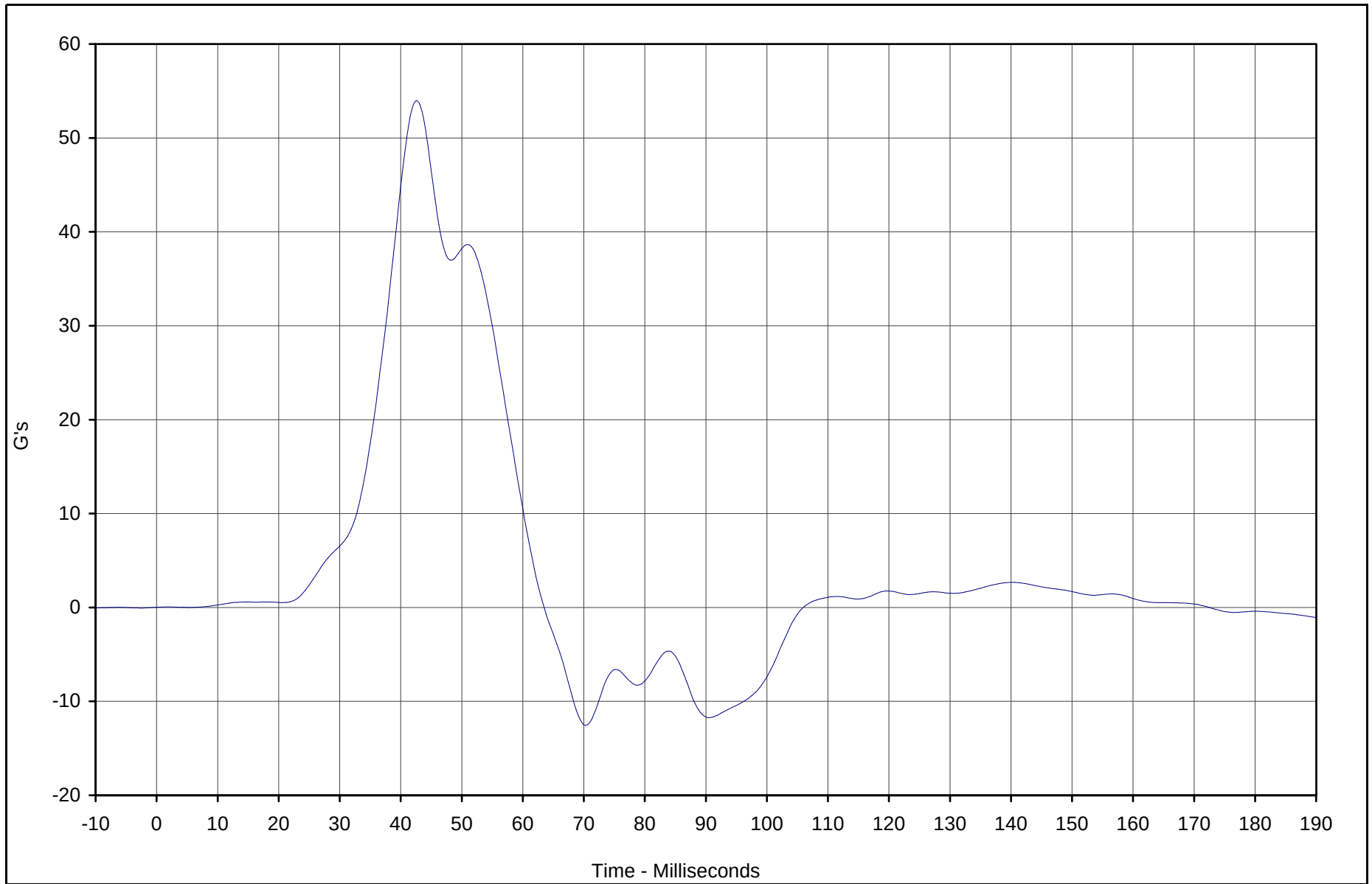


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Lower Spine Redundant Y	041	FIR	G's	54.0	42.5	-12.5	70.6	FIR100

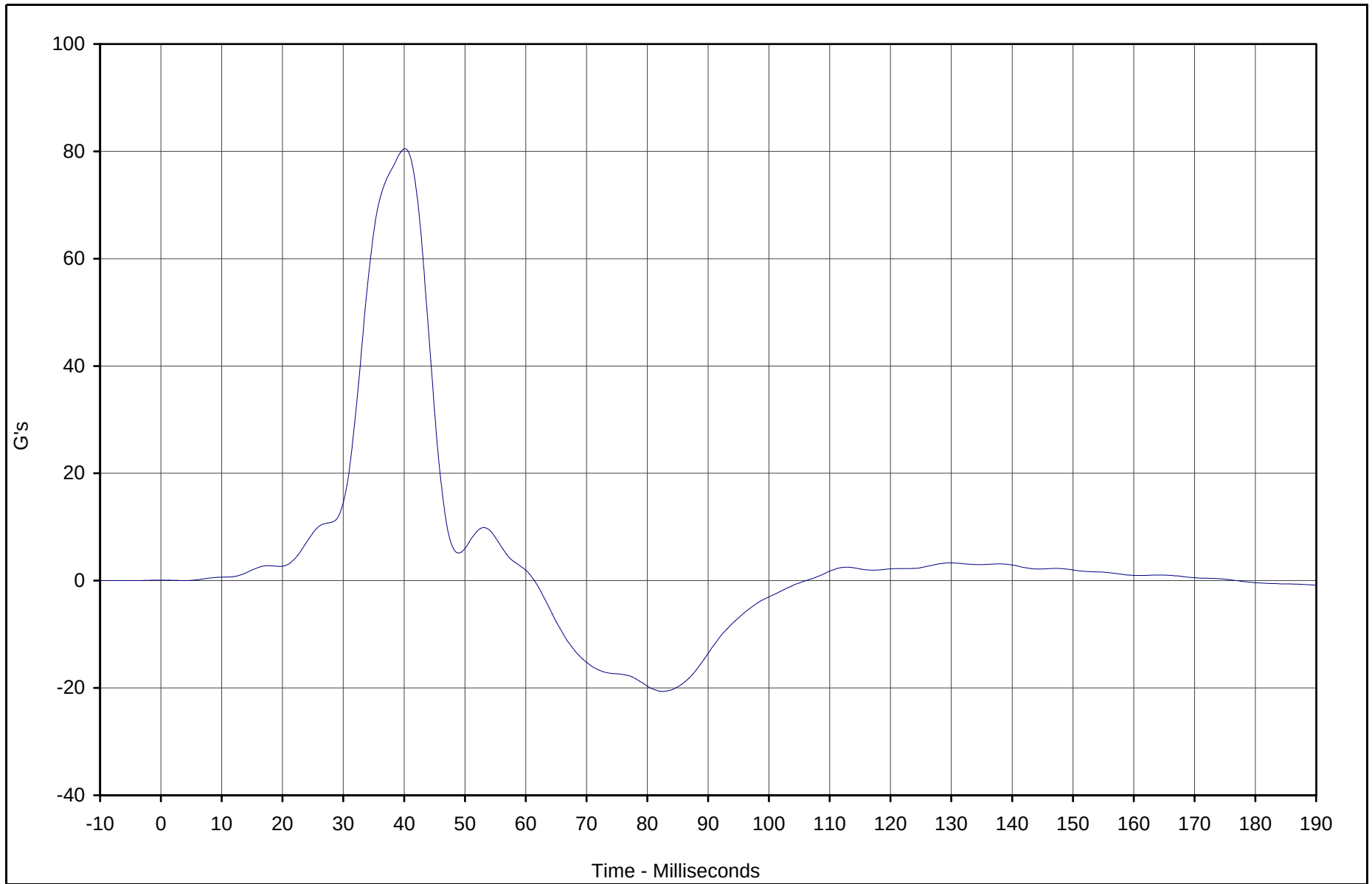


Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pass. Pelvis Redundant Y	042	FIR	G's	80.5	40.0	-20.6	82.5	FIR100



Test Vehicle: 2003 Ford Crown Victoria 4 Door Sedan

Test Date: 11/12/02

Test Program: 55/28 km/h Side Impact NCAP

NHTSA No.: M30201

APPENDIX C
SID CONFIGURATION AND PERFORMANCE VERIFICATION DATA

APPENDIX C
PRE-TEST SID / HIII CONFIGURATION AND PERFORMANCE VERIFICATION DATA



Calibration Data Sheet Side Impact Hybrid Dummy (SID/HIII) External Measurements

ATD Serial No.: 274

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
SH- Seated Height	mm	889 to 909	895	Pass
HP- Hip Point Height	mm	99 (reference)	99	Pass
RH- Rib Height	mm	502 to 520	515	Pass
KH- Knee Pivot From Back Line	mm	511 to 526	520	Pass
KV- Knee Pivot From Floor	mm	490 to 505	500	Pass
HW- Hip Width	mm	356 to 391	380	Pass
Overall Test Results				Pass

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TR-P23003-03-NC

Laboratory Technician

November 1, 2002
Test Date



Calibration Data Sheet

Side Impact Hybrid Dummy (SID/HIII)

Thorax Lateral Impact

ATD Serial No.: 274

Test I.D.: TI10E

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
Probe Velocity	m/s	4.21 to 4.33	4.24	Pass
Upper Rib Acceleration	G's	37.0 to 46.0	39.8	Pass
Lower Rib Acceleration	G's	37.0 to 46.0	39.0	Pass
Thoracic Spine Acceleration	G's	15.0 to 22.0	18.3	Pass
Overall Test Results				Pass

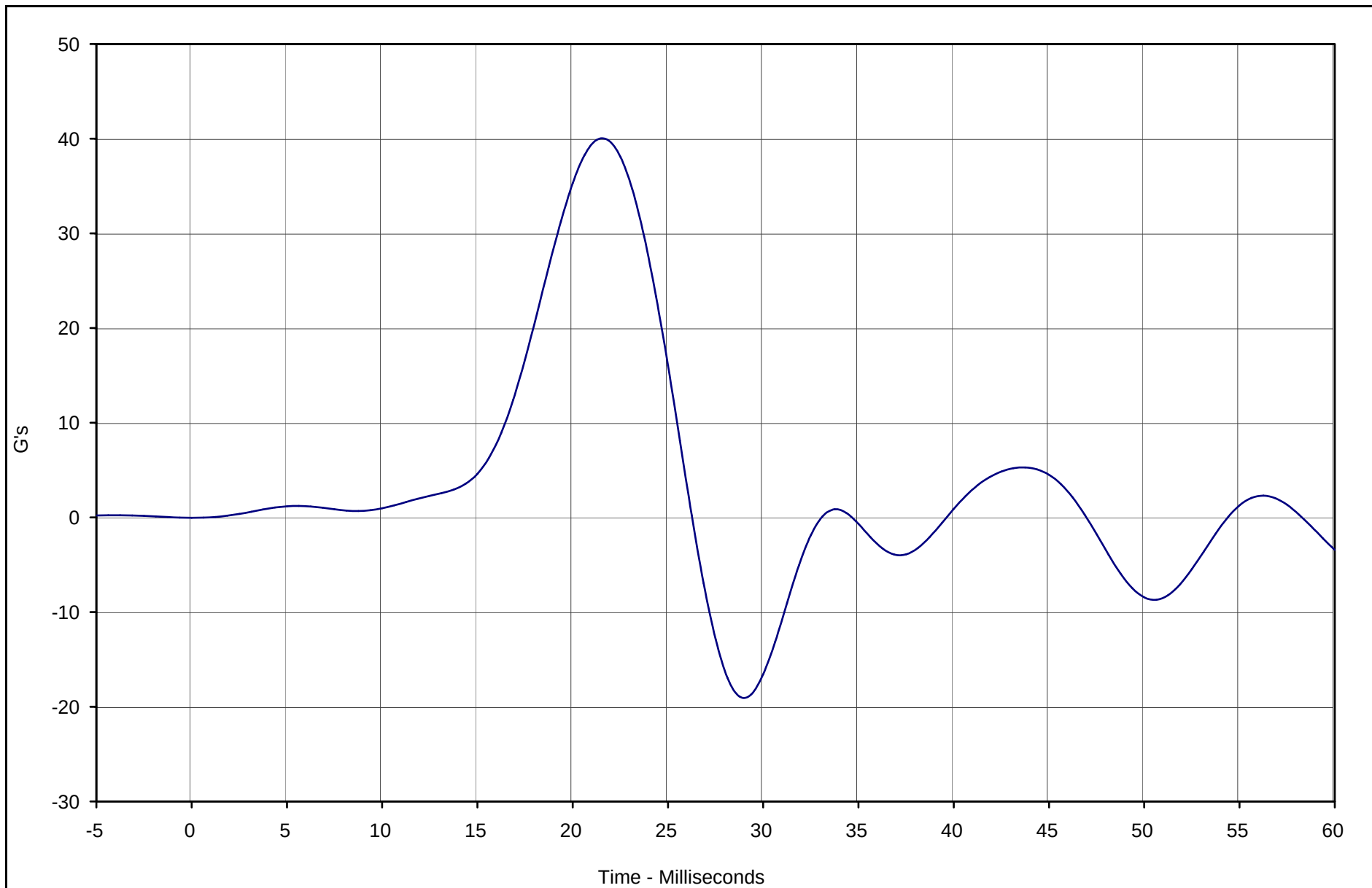
C-2

TR-P23003-03-NC

Laboratory Technician

November 1, 2002

Test Date



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Upper Rib Y Acceleration	001	FIL	G's	39.8	21.3	-18.9	28.8	FIR100

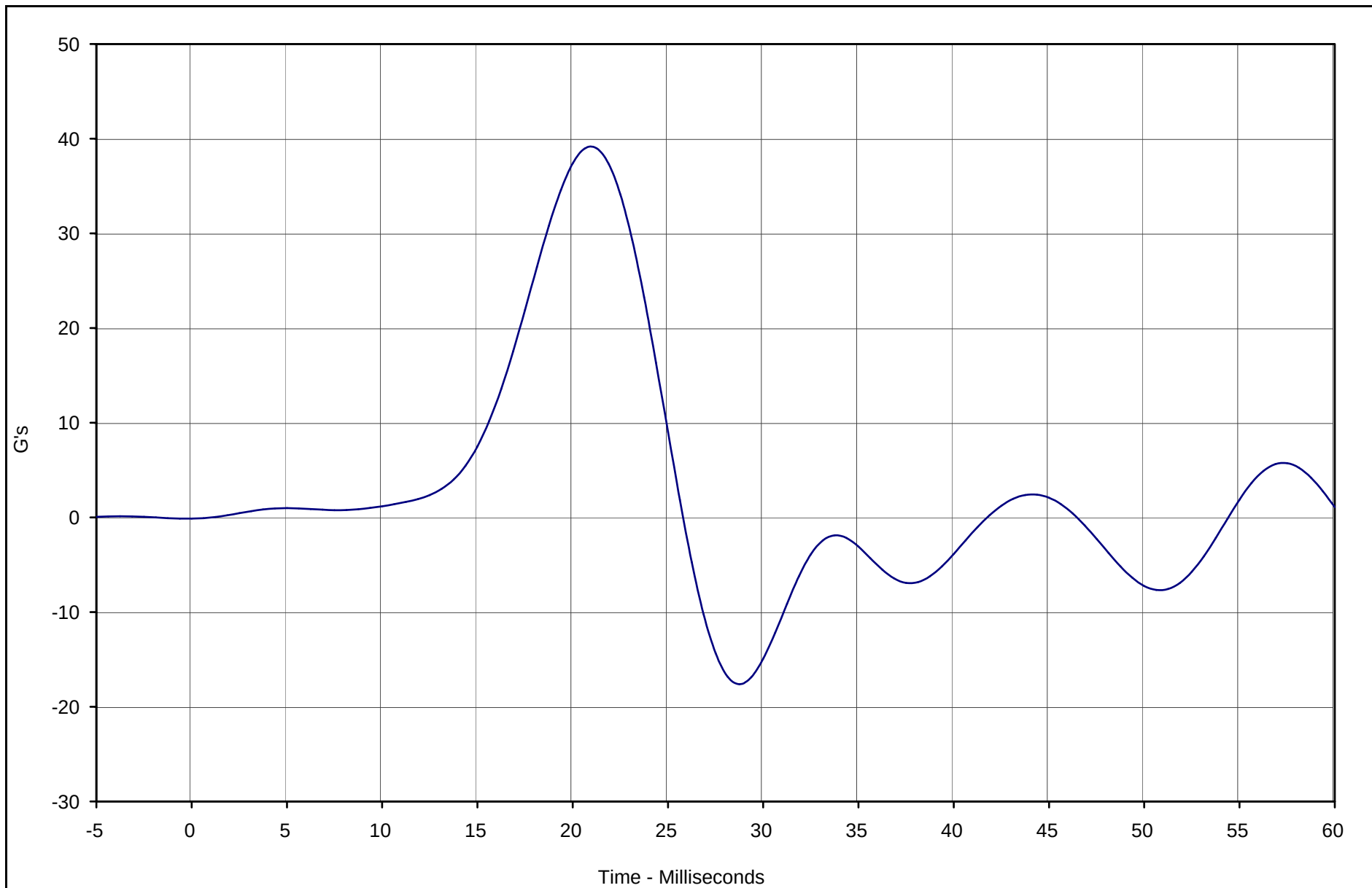


Test Vehicle: SID / HIII Thorax Lateral Impact

SID Serial No.: 274

Test Date: 11/1/02

Test I.D.: TI10E



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Lower Rib Y Acceleration	002	FIL	G's	39.0	21.3	-17.6	28.8	FIR100

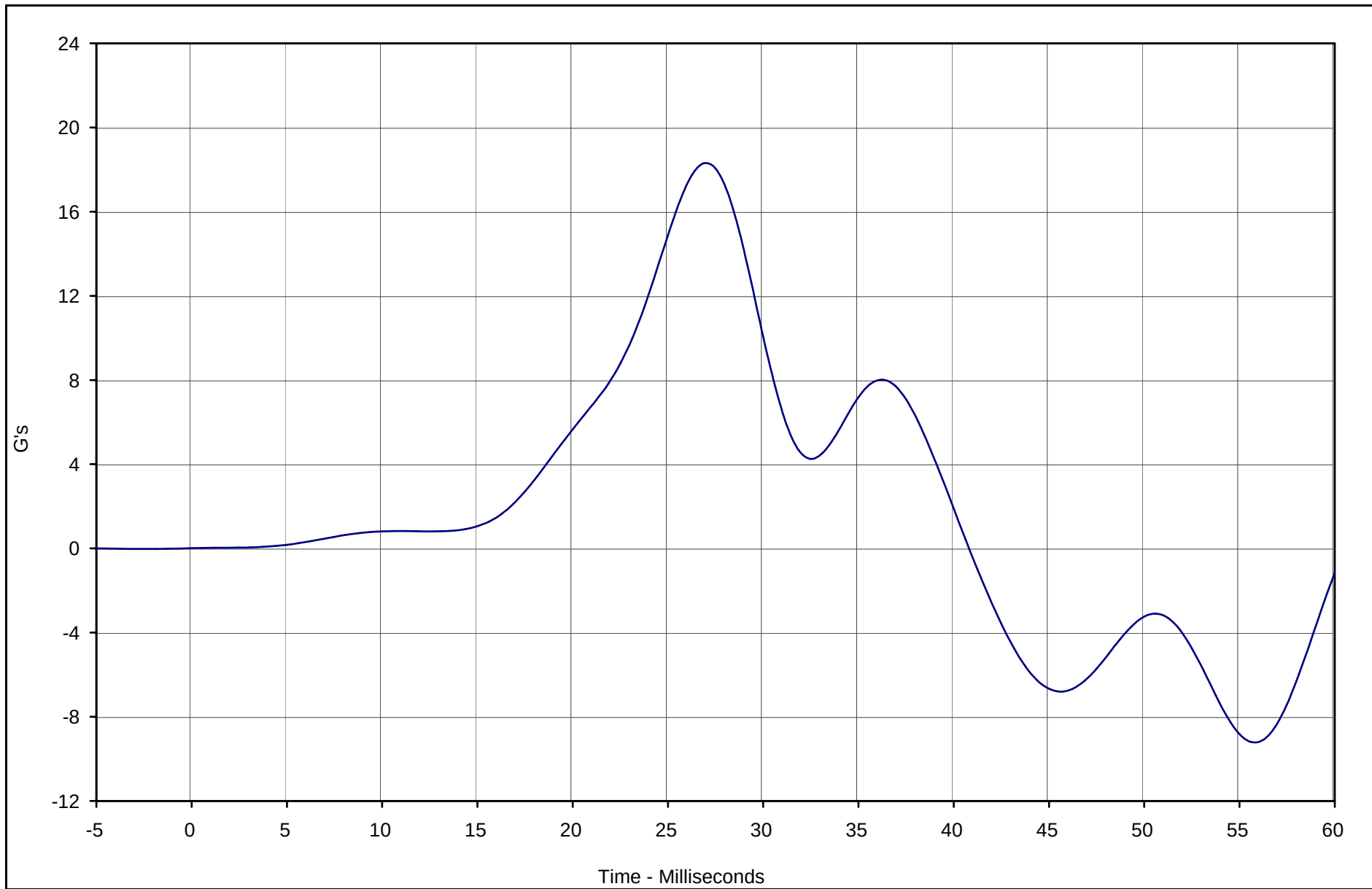


Test Vehicle: SID / HIII Thorax Lateral Impact

SID Serial No.: 274

Test Date: 11/1/02

Test I.D.: TI10E



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Lower Spine Y Acceleration	003	FIL	G's	18.3	26.9	-9.2	55.6	FIR100



Test Vehicle: SID / HIII Thorax Lateral Impact

SID Serial No.: 274

Test Date: 11/1/02

Test I.D.: TI10E



Calibration Data Sheet

Side Impact Hybrid Dummy (SID/HIII)

Pelvis Lateral Impact

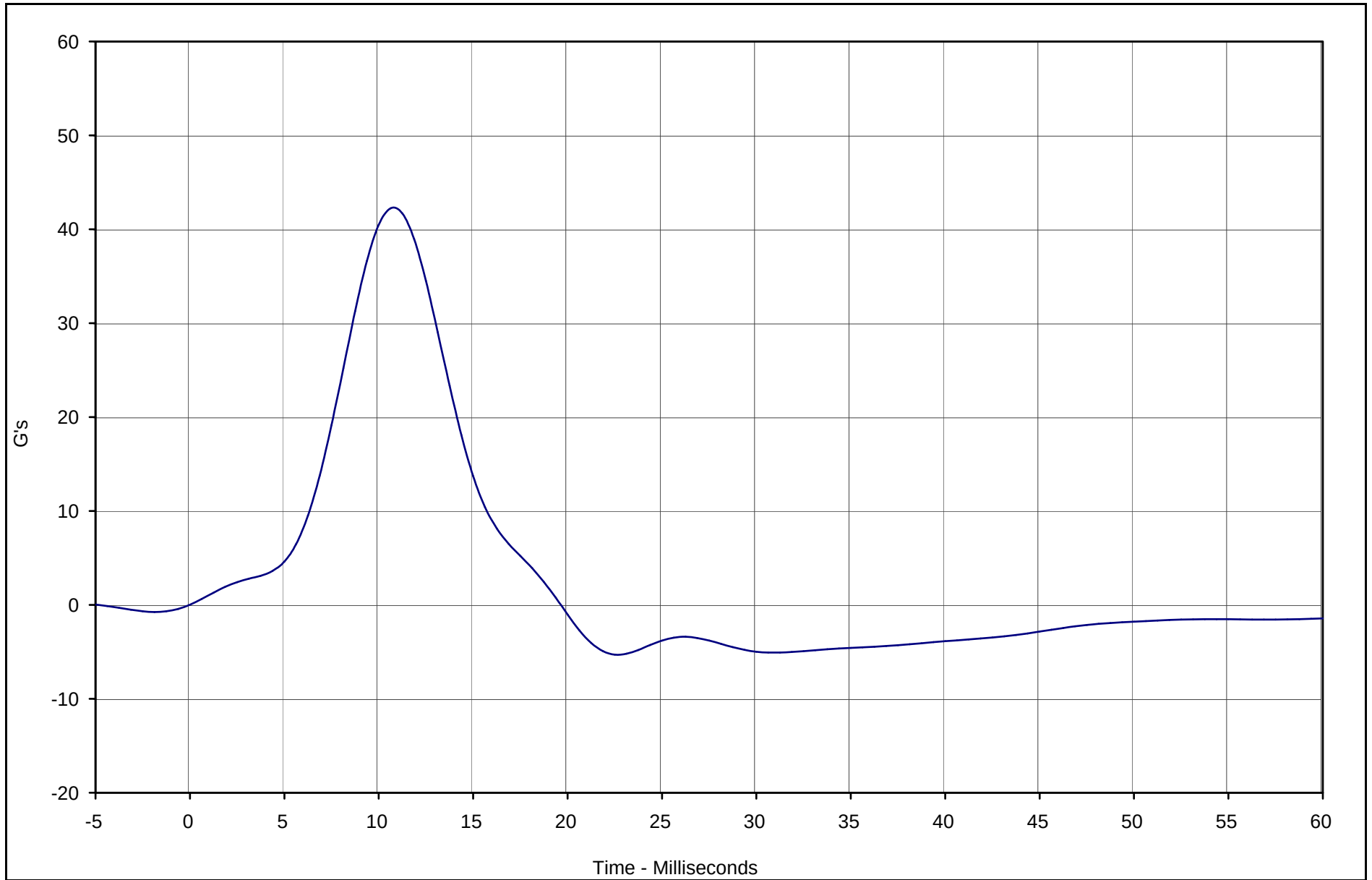
ATD Serial No.: 274

Test I.D.: PI11D

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
Probe Velocity	m/s	4.21 to 4.33	4.27	Pass
Peak Pelvis Acceleration	G's	40.0 to 60.0	42.2	Pass
Acceleration Time Above 20 G's	Msec.	3.0 to 7.0	6.3	Pass
Overall Test Results				Pass

Laboratory Technician

November 1, 2002
Test Date



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pelvis Y Acceleration	001	FIL	G's	42.2	10.6	-7.2	0.0	FIR100



Test Vehicle: Side Impact Dummy (SID) Pelvis Lateral Impact

SID Serial No.: 274

Test Date: 11/1/02

Test I.D.: PI11D



Calibration Data Sheet

Side Impact Hybrid Dummy (SID/HIII)

Head Drop Lateral Impact Test

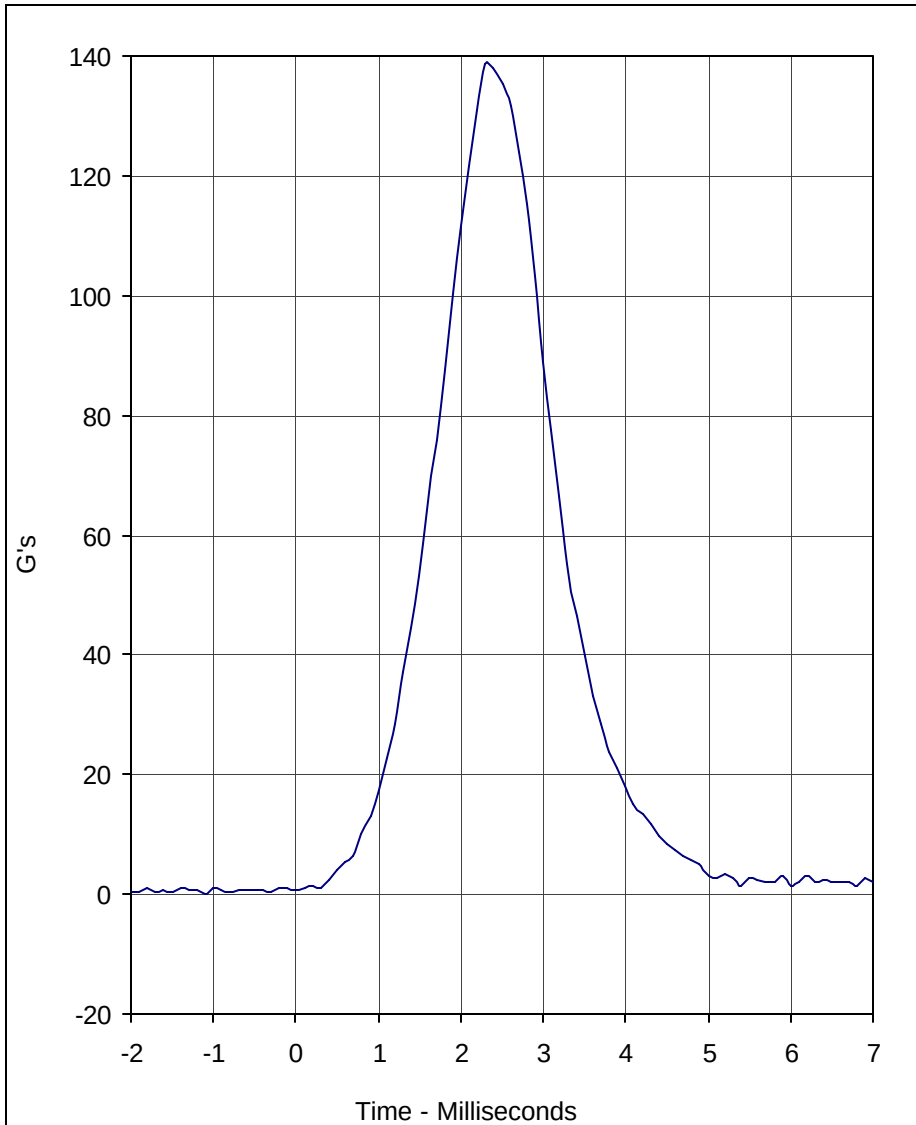
ATD Serial No.: 274

Test I.D.: HD06A

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	120.0 to 150.0	138.6	Pass
Peak Longitudinal Acceleration	G's	≤15.0	7.6	Pass
Is Acceleration Unimodal?	Yes/No	Yes	Yes	Pass
Overall Test Results				Pass

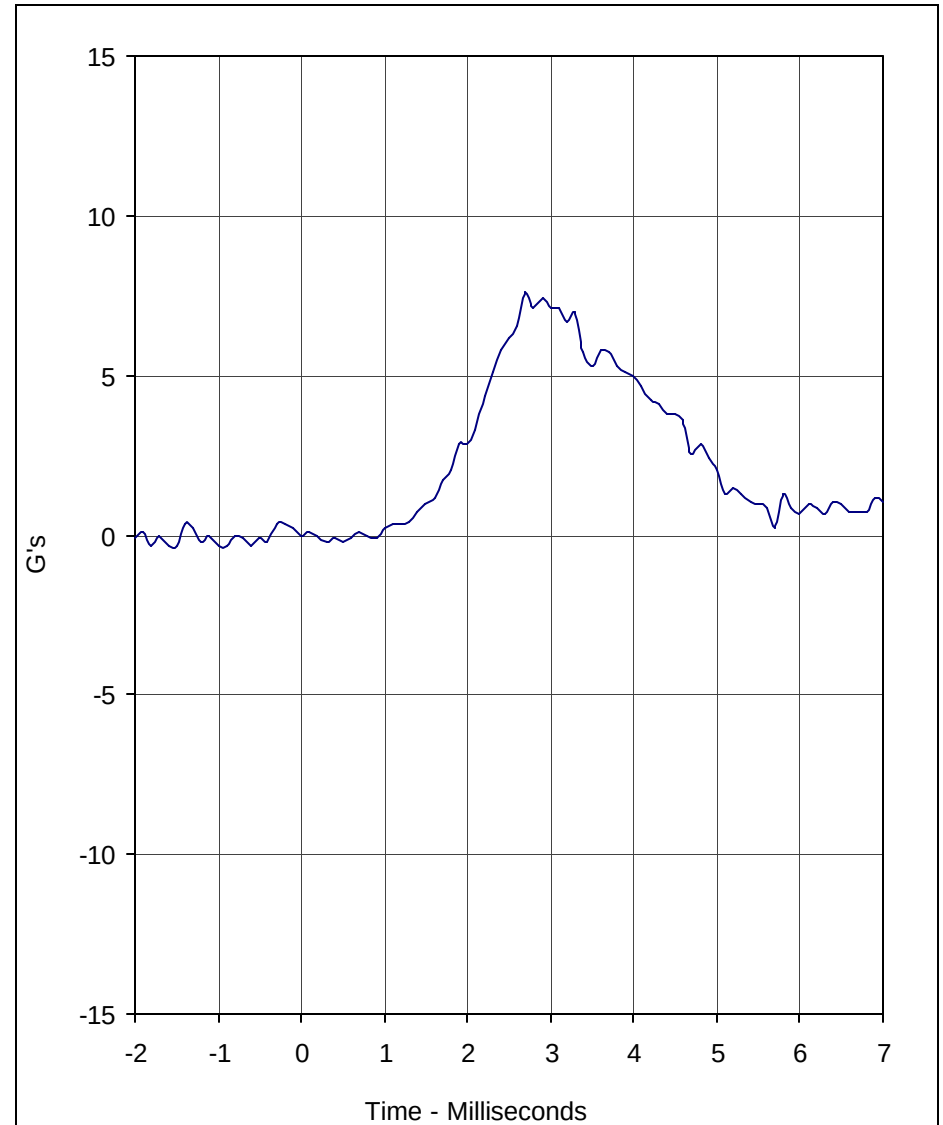
Laboratory Technician

November 1, 2002
Test Date



Curve Description				CURNO	Type
Head Resultant				001	RES
Units	Max	Time	Min	Time	SAE Class
G's	138.6	2.3	0.2	-1.1	1000

Test Program: SID / HIII Head Drop Lateral Impact Test
 Test Date: 11/1/02



Curve Description				CURNO	Type
Head X				002	FIL
Units	Max	Time	Min	Time	SAE Class
G's	7.6	2.7	-0.3	-1.8	1000

A.T.D. Serial No.: 274
 Test I.D.: HD11A





Calibration Data Sheet

Side Impact Hybrid Dummy (SID/HIII)

Neck Pendulum Lateral Test

ATD Serial No.: 274

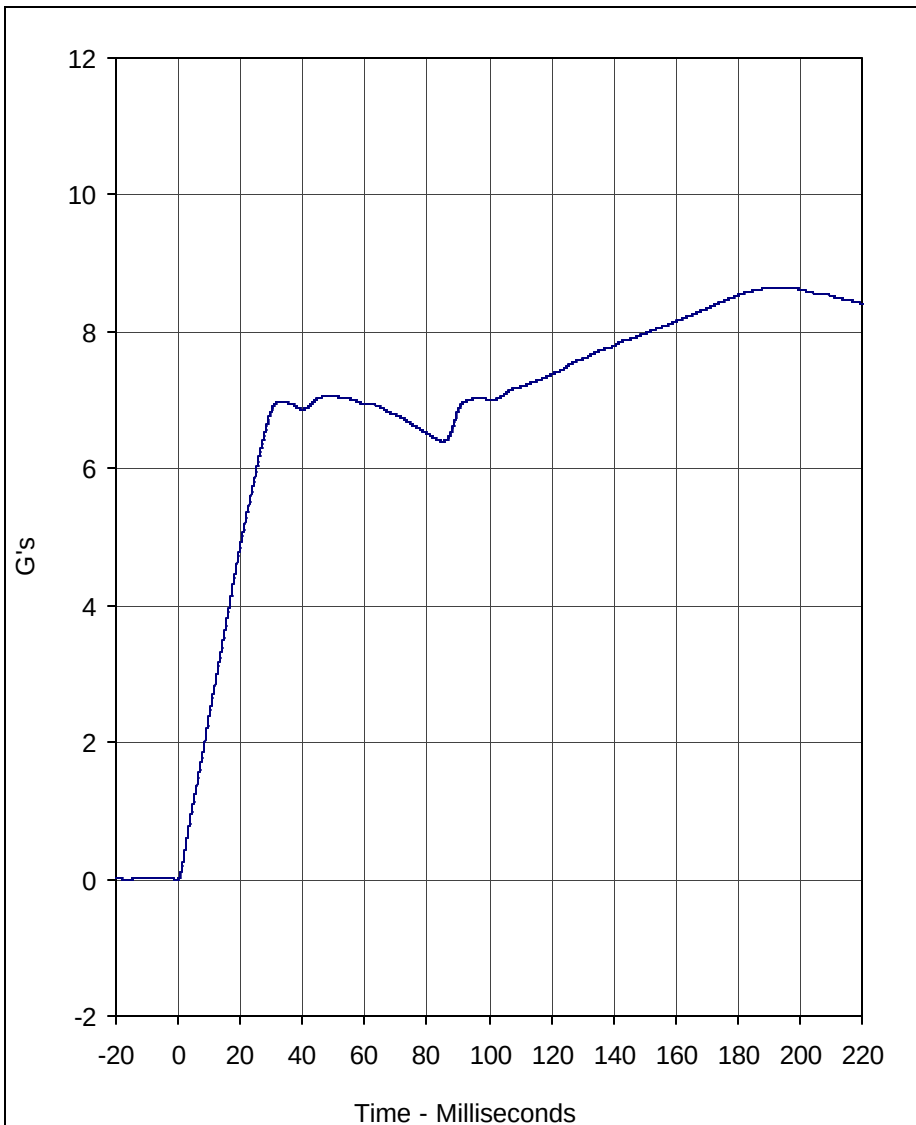
Test I.D.: NB11E

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	7.04	Pass
Pendulum Deceleration	10	Msec.	1.96 to 2.55	2.38	Pass
	20	Msec.	4.12 to 5.10	4.87	Pass
	30	Msec.	5.73 to 7.01	6.85	Pass
	40 to 70	Msec.	6.27 to 7.64	7.06	Pass
Maximum "D" Plane Rotation		Degrees	66.0 to 82.0	73.0	Pass
Maximum "D" Plane Rotation Time After Peak Moment		Msec.	2.0 to 15.0	11.6	Pass
"D" Plane Rotation Decay Time From Peak Angle to Zero Angle		Msec.	58.0 to 67.0	63.9	Pass
Calculated Moment About Occipital Condyle		N•m	73.0 to 88.0	83.0	Pass
Moment About Occipital Condyle Decay, Time From Positive Peak Value To 0 N•m		Msec.	49.0 to 64.0	49.5	Pass
Overall Test Results					Pass

Laboratory Technician

November 1, 2002

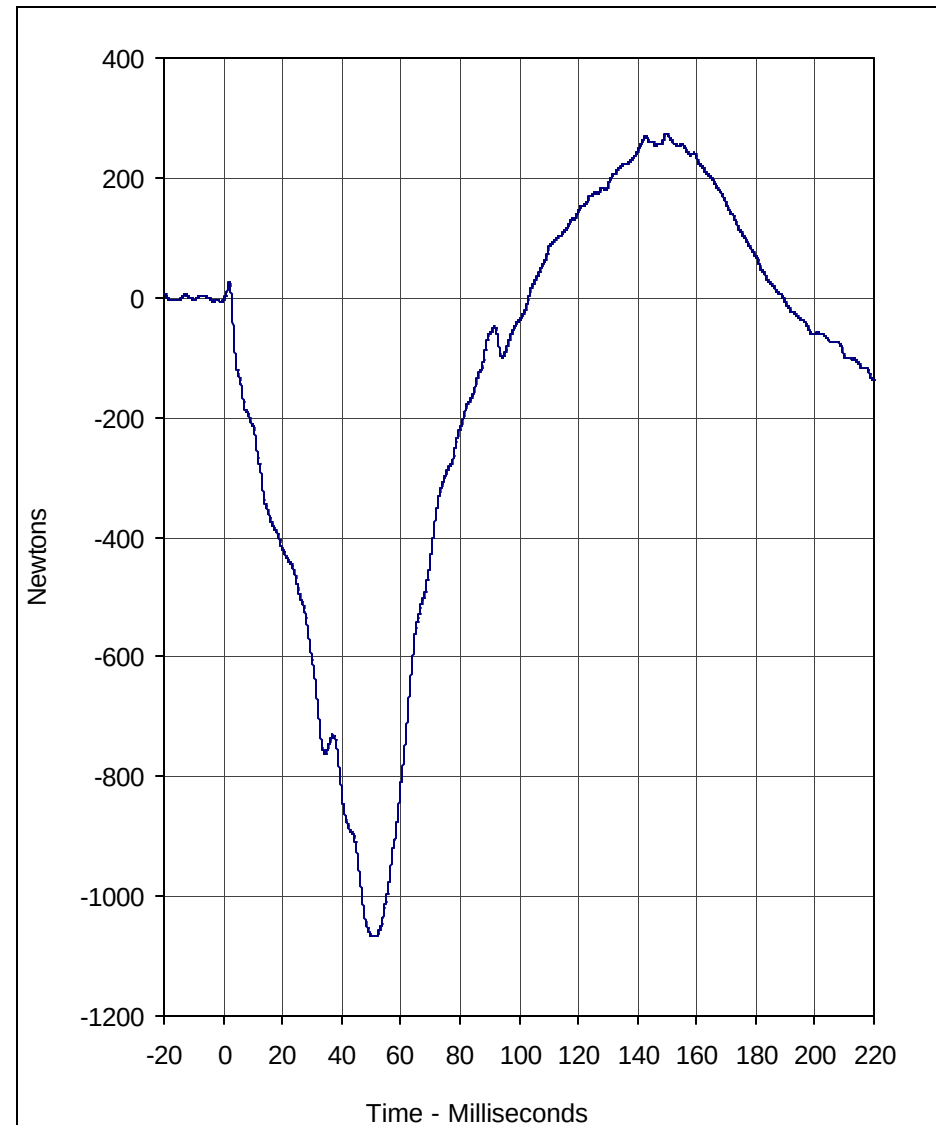
Test Date



Curve Description				CURNO	Type
Pendulum Velocity				001	FIL
Units	Max	Time	Min	Time	SAE Class
G's	8.6	191.7	0.0	-0.5	180

Test Program: SID / HIII Neck Pendulum Lateral Test

Test Date: 11/1/02

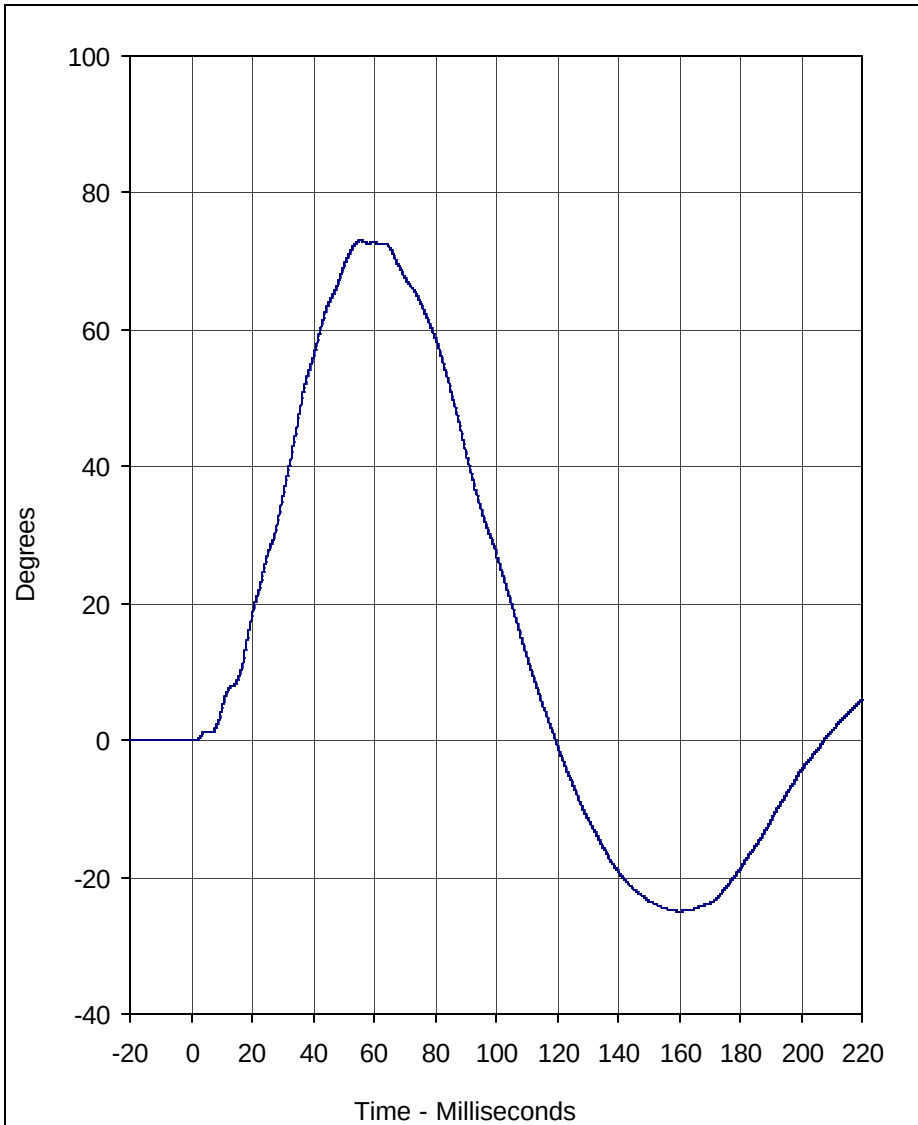


Curve Description				CURNO	Type
Neck Force Y				002	FIL
Units	Max	Time	Min	Time	SAE Class
Newtons	274.1	149.7	-1068.0	51.4	180

A.T.D. Serial No.: 274

Test I.D.: NB11E

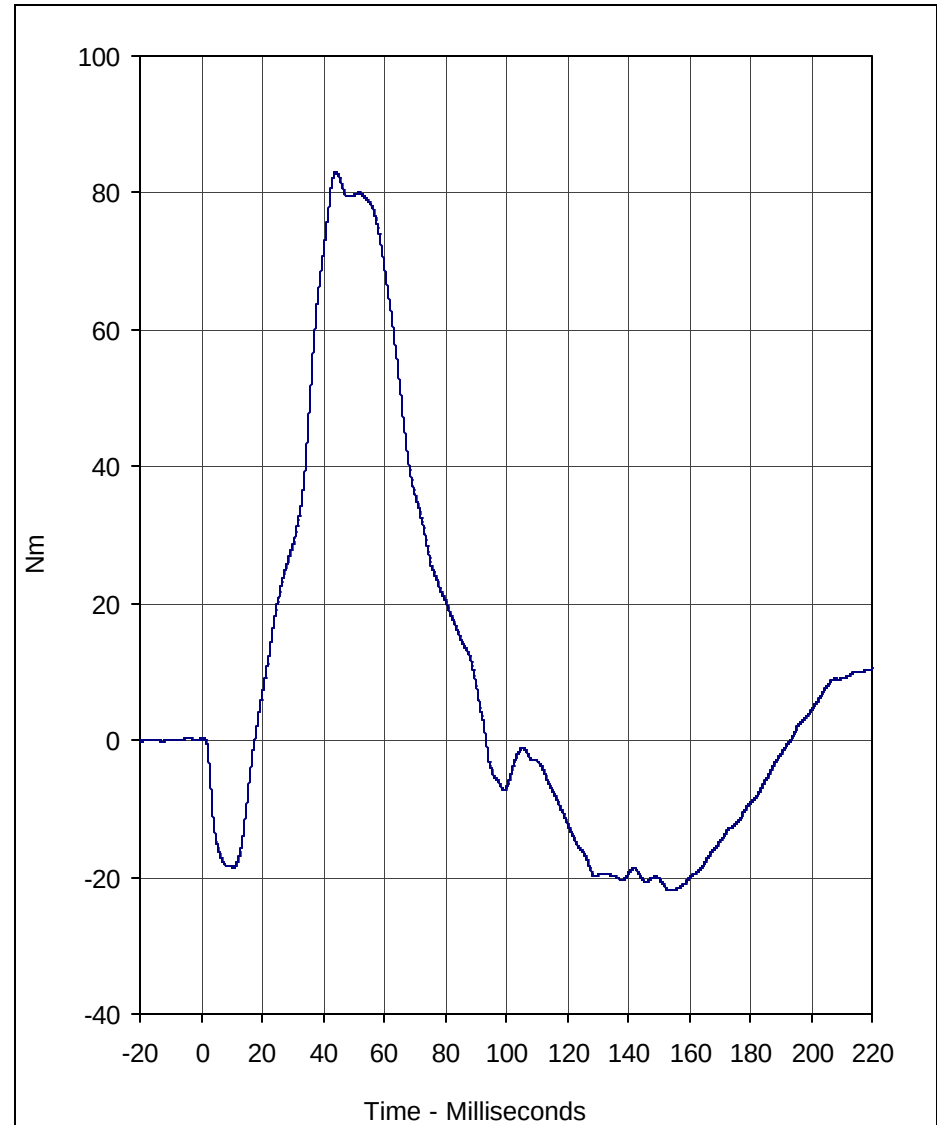




Curve Description				CURNO	Type
"D" Plane Rotation				003	FIL
Units	Max	Time	Min	Time	SAE Class
Degrees	73.0	55.6	-25.0	159.9	180

Test Program: SID / HIII Neck Pendulum Lateral Test

Test Date: 11/1/02



Curve Description				CURNO	Type
Moment About Occipital Condyle				004	FIL
Units	Max	Time	Min	Time	SAE Class
Nm	83.0	44.0	-22.0	153.4	180

A.T.D. Serial No.: 274

Test I.D.: NB11E





Calibration Data Sheet Side Impact Hybrid Dummy (SID/HIII) External Measurements

ATD Serial No.: 275

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
SH- Seated Height	mm	889 to 909	895	Pass
HP- Hip Point Height	mm	99 (reference)	99	Pass
RH- Rib Height	mm	502 to 520	520	Pass
KH- Knee Pivot From Back Line	mm	511 to 526	515	Pass
KV- Knee Pivot From Floor	mm	490 to 505	495	Pass
HW- Hip Width	mm	356 to 391	385	Pass
Overall Test Results				Pass

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TR-P23003-03-NC

Laboratory Technician

November 1, 2002

Test Date



Calibration Data Sheet

Side Impact Hybrid Dummy (SID/HIII)

Thorax Lateral Impact

ATD Serial No.: 275

Test I.D.: TI10F

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
Probe Velocity	m/s	4.21 to 4.33	4.27	Pass
Upper Rib Acceleration	G's	37.0 to 46.0	39.0	Pass
Lower Rib Acceleration	G's	37.0 to 46.0	39.8	Pass
Thoracic Spine Acceleration	G's	15.0 to 22.0	19.0	Pass
Overall Test Results				Pass

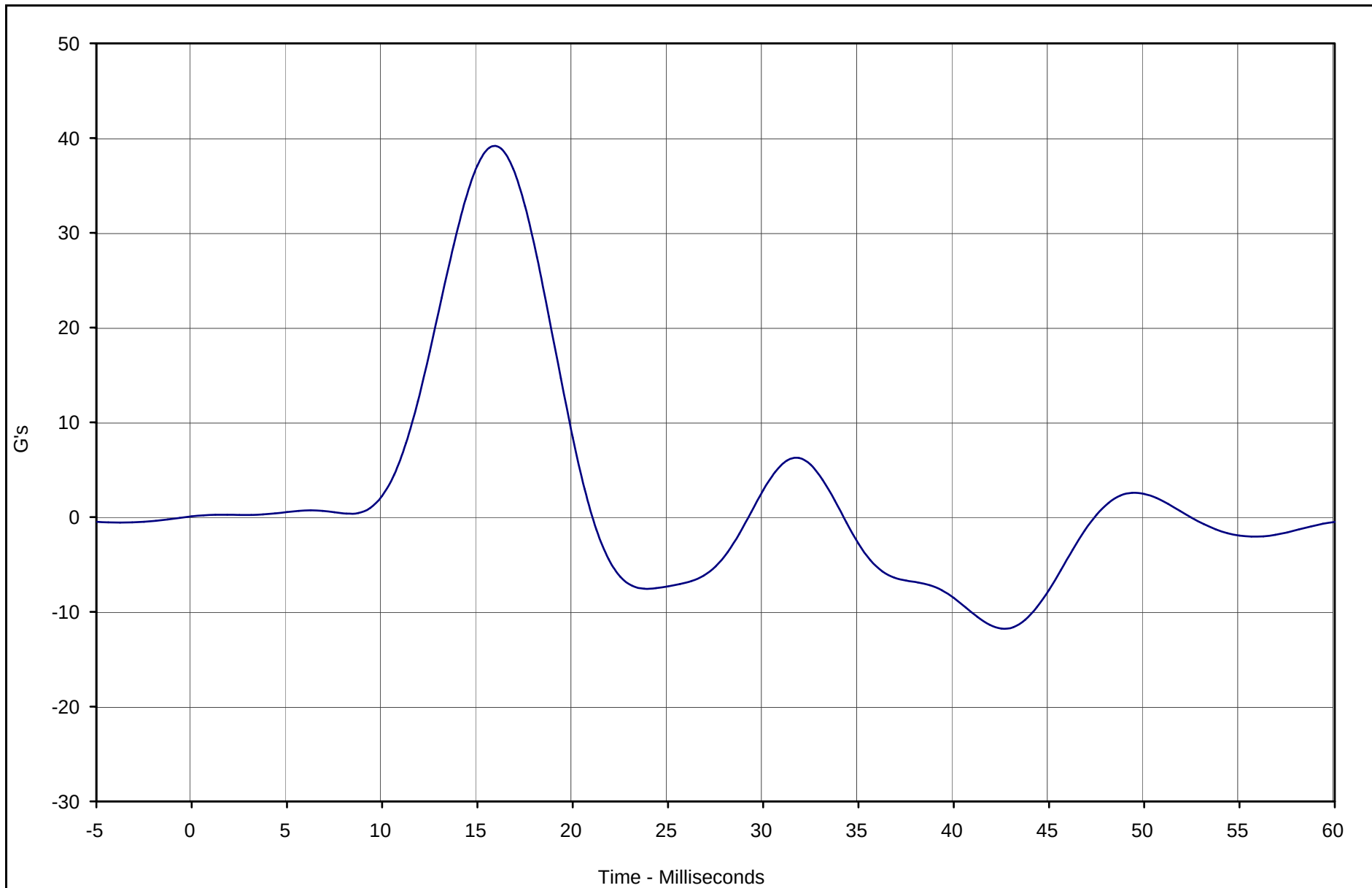
C-14

TR-P23003-03-NC

Laboratory Technician

November 1, 2002

Test Date



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Upper Rib Y Acceleration	001	FIL	G's	39.0	15.6	-11.8	42.5	FIR100

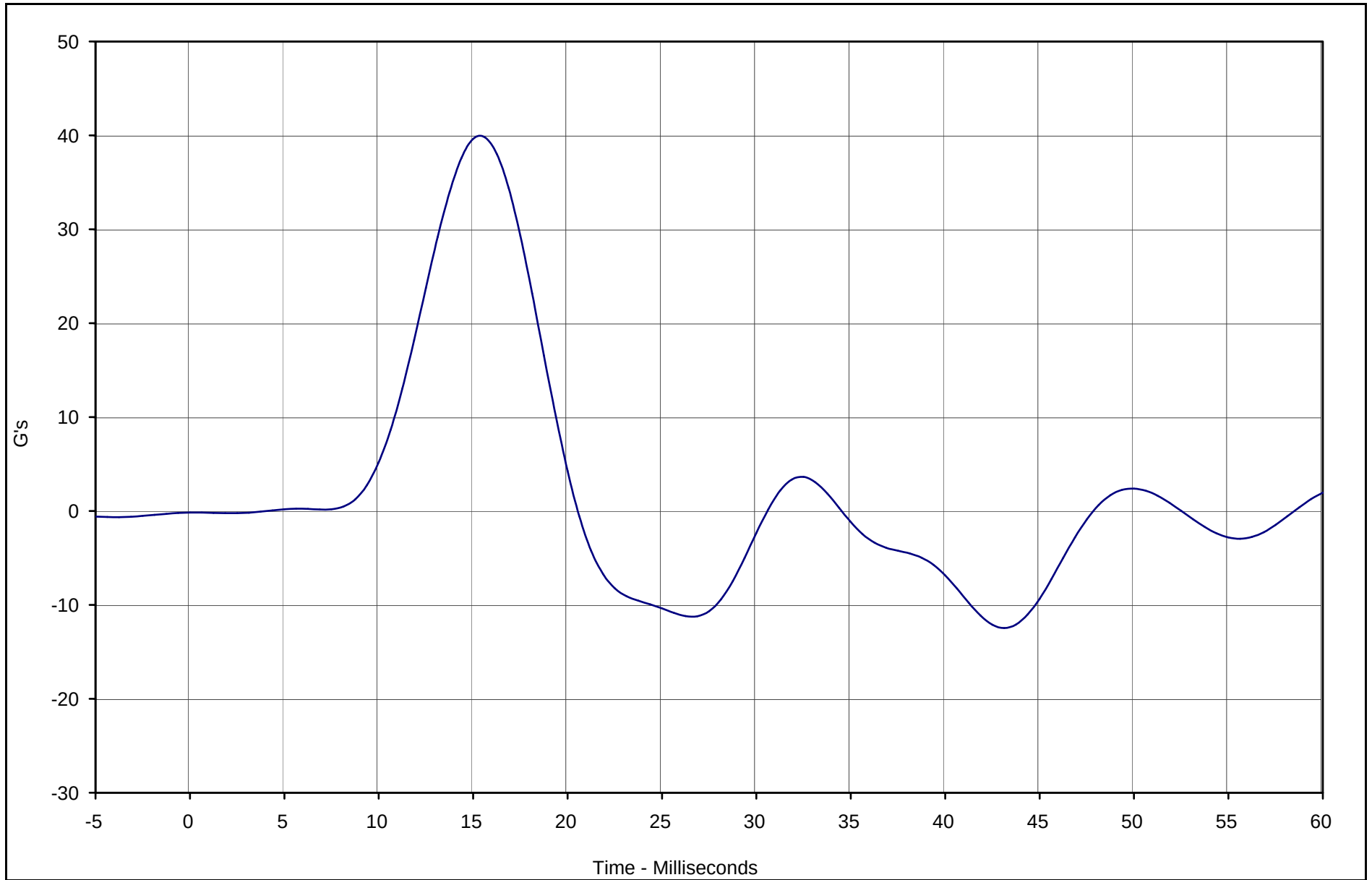


Test Vehicle: SID / HIII Thorax Lateral Impact

SID Serial No.: 275

Test Date: 11/1/02

Test I.D.: TI10F



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Lower Rib Y Acceleration	002	FIL	G's	39.8	15.6	-12.5	43.1	FIR100

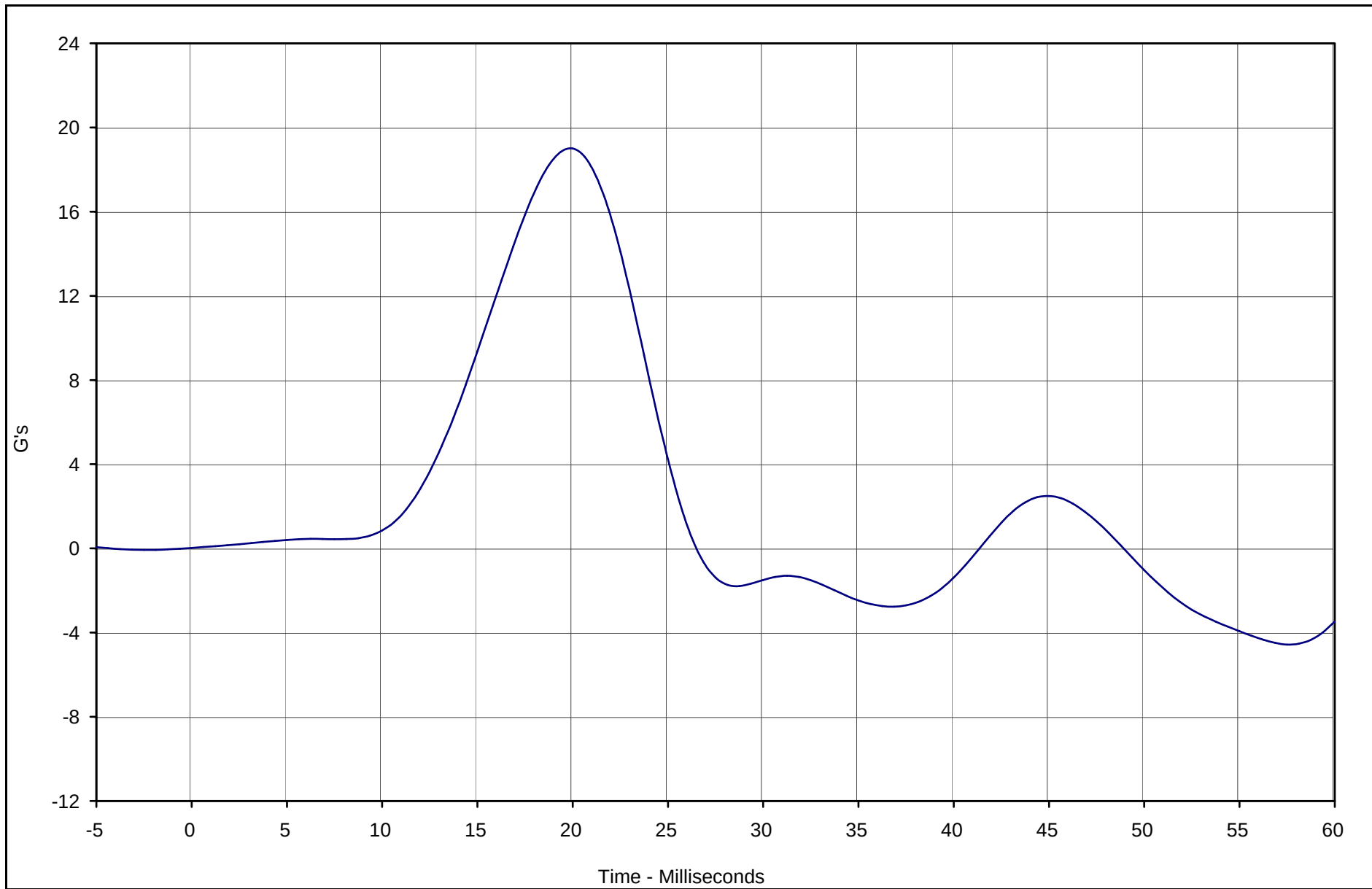


Test Vehicle: SID / HIII Thorax Lateral Impact

SID Serial No.: 275

Test Date: 11/1/02

Test I.D.: TI10F



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Lower Spine Y Acceleration	003	FIL	G's	19.0	20.0	-4.6	57.5	FIR100



Test Vehicle: SID / HIII Thorax Lateral Impact

SID Serial No.: 275

Test Date: 11/1/02

Test I.D.: TI10F



Calibration Data Sheet

Side Impact Hybrid Dummy (SID/HIII)

Pelvis Lateral Impact

ATD Serial No.: 275

Test I.D.: PI10E

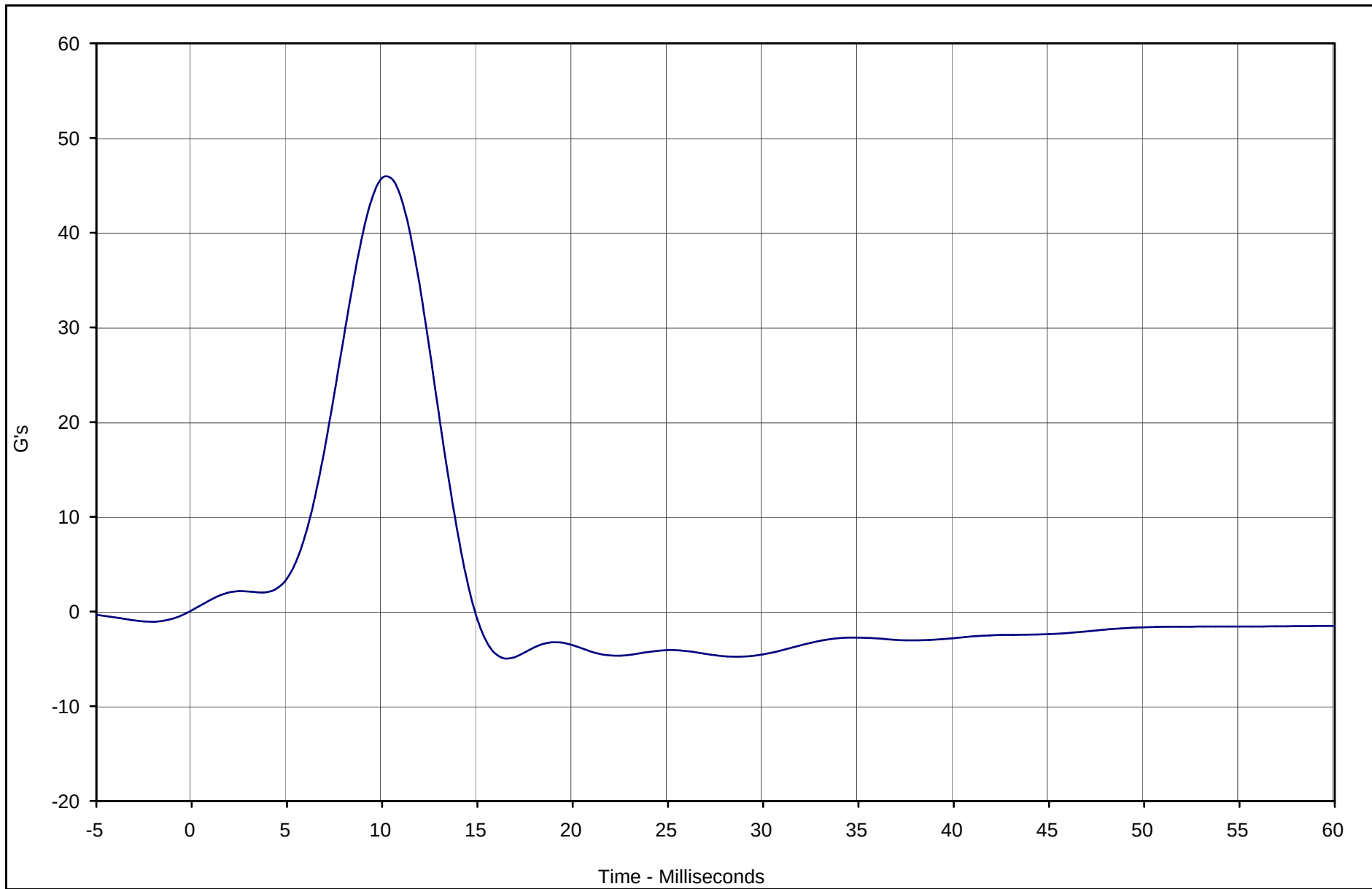
Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.6	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Probe Velocity	m/s	4.21 to 4.33	4.27	Pass
Peak Pelvis Acceleration	G's	40.0 to 60.0	45.8	Pass
Acceleration Time Above 20 G's	Msec.	3.0 to 7.0	5.6	Pass
Overall Test Results				Pass

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Laboratory Technician

November 1, 2002
Test Date



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pelvis Y Acceleration	001	FIL	G's	45.8	10.0	-7.2	0.0	FIR100



Test Vehicle: Side Impact Dummy (SID) Pelvis Lateral Impact

SID Serial No.: 275

Test Date: 11/1/02

Test I.D.: PI10E



Calibration Data Sheet

Side Impact Hybrid Dummy (SID/HIII)

Head Drop Lateral Impact Test

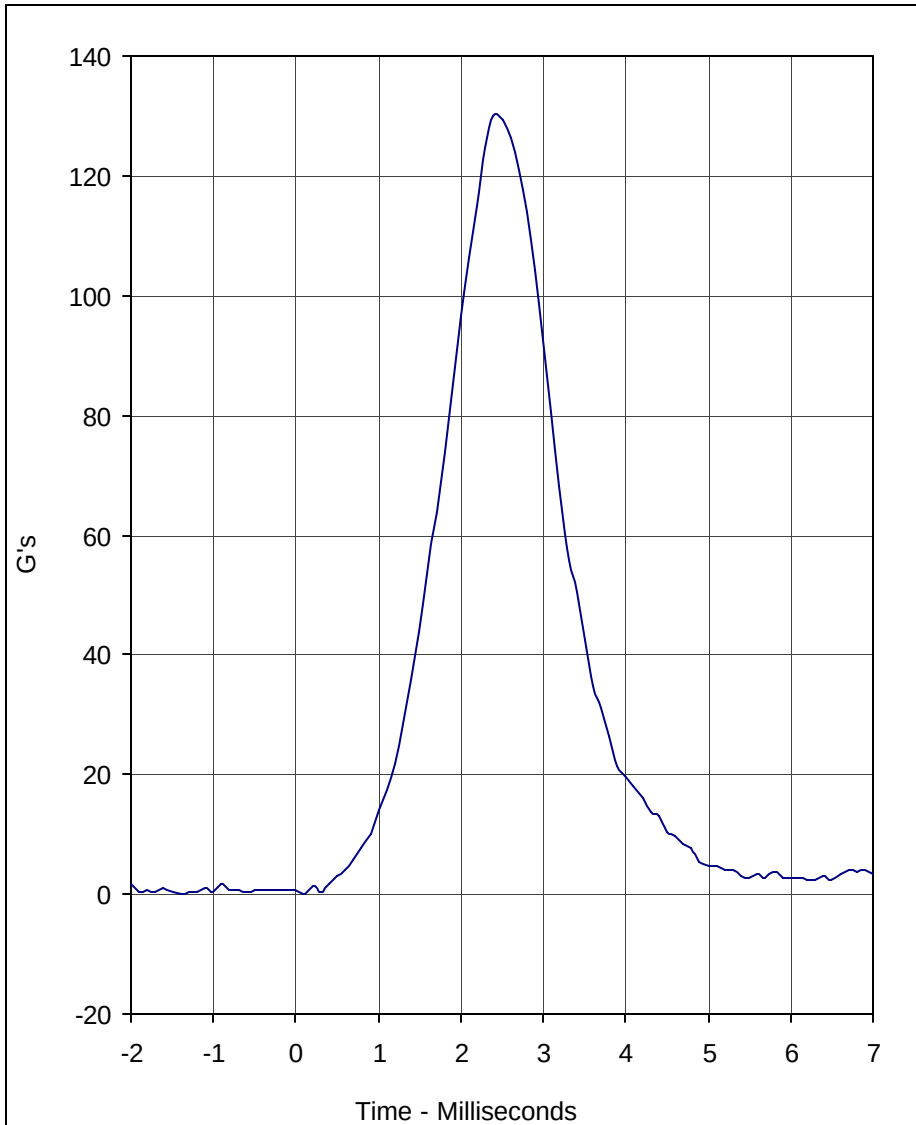
ATD Serial No.: 275

Test I.D.: SH10B

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	120.0 to 150.0	130.1	Pass
Peak Longitudinal Acceleration	G's	≤15.0	13.3	Pass
Is Acceleration Unimodal?	Yes/No	Yes	Yes	Pass
Overall Test Results				Pass

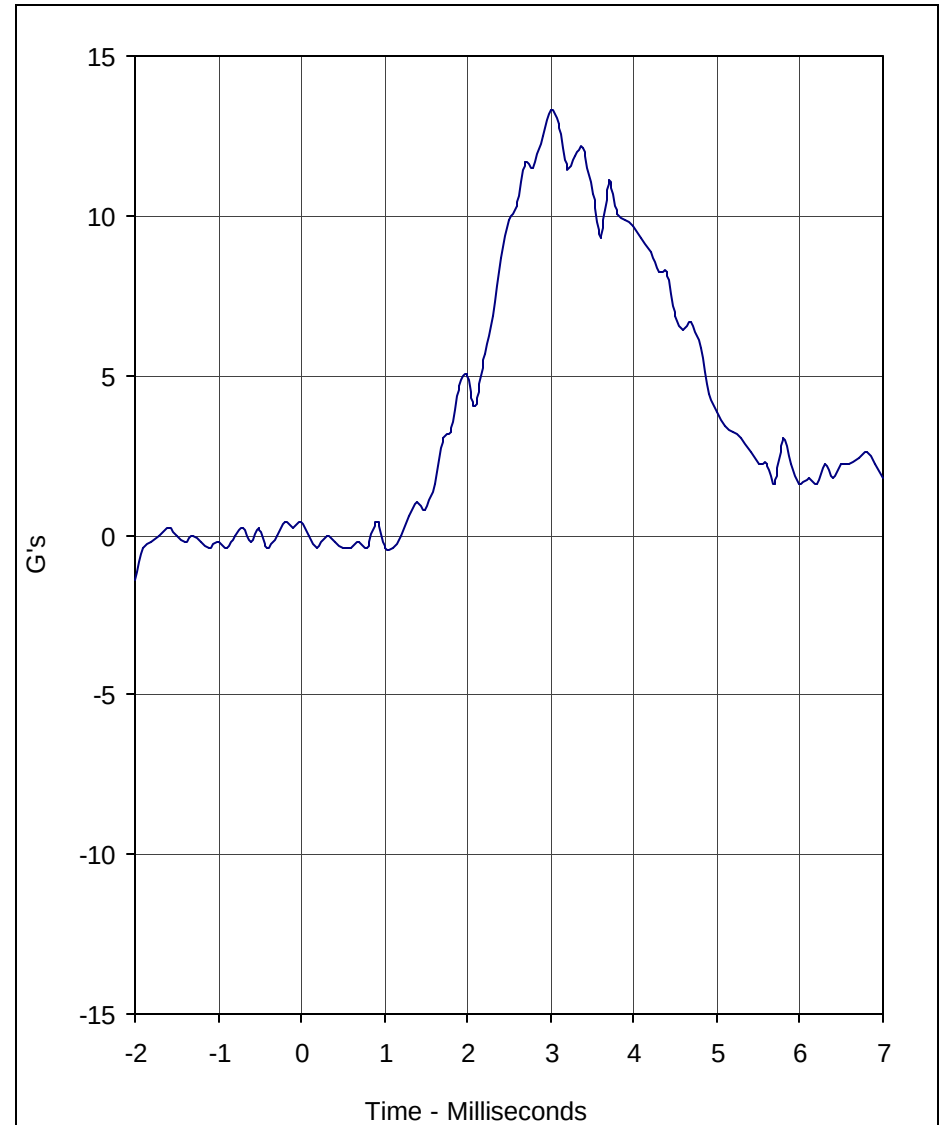
Laboratory Technician

November 1, 2002
Test Date



Curve Description				CURNO	Type
Head Resultant				001	RES
Units	Max	Time	Min	Time	SAE Class
G's	130.1	2.4	0.0	0.1	1000

Test Program: SID / HIII Head Drop Lateral Impact Test
 Test Date: 11/1/02



Curve Description				CURNO	Type
Head X				002	FIL
Units	Max	Time	Min	Time	SAE Class
G's	13.3	3.0	-1.4	-2.0	1000

A.T.D. Serial No.: 275
 Test I.D.: SH10B





Calibration Data Sheet

Side Impact Hybrid Dummy (SID/HIII)

Neck Pendulum Lateral Test

ATD Serial No.: 275

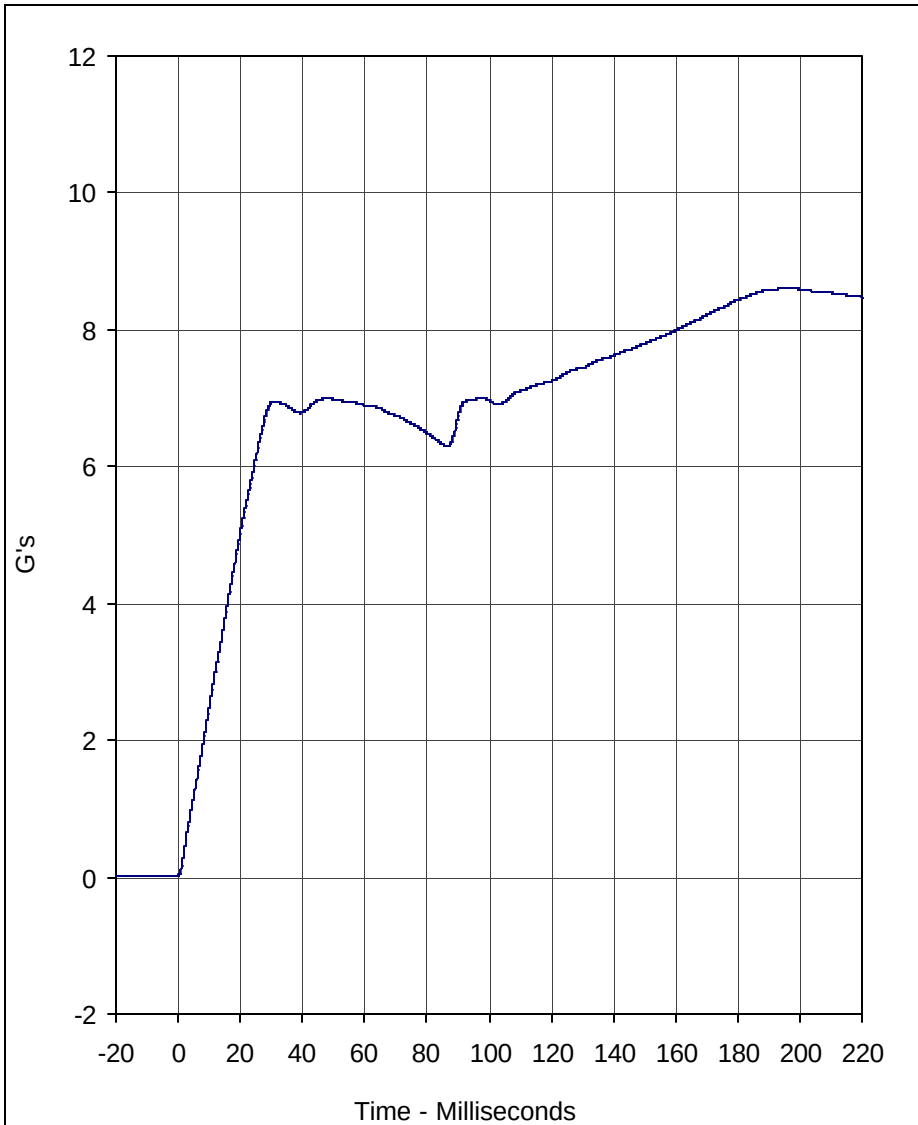
Test I.D.: NB11F

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	7.07	Pass
Pendulum Deceleration	10	Msec.	1.96 to 2.55	2.48	Pass
	20	Msec.	4.12 to 5.10	5.02	Pass
	30	Msec.	5.73 to 7.01	6.94	Pass
	40 to 70	Msec.	6.27 to 7.64	6.99	Pass
Maximum "D" Plane Rotation		Degrees	66.0 to 82.0	81.6	Pass
Maximum "D" Plane Rotation Time After Peak Moment		Msec.	2.0 to 15.0	14.9	Pass
"D" Plane Rotation Decay Time From Peak Angle to Zero Angle		Msec.	58.0 to 67.0	65.5	Pass
Calculated Moment About Occipital Condyle		N•m	73.0 to 88.0	79.6	Pass
Moment About Occipital Condyle Decay, Time From Positive Peak Value To 0 N•m		Msec.	49.0 to 64.0	50.6	Pass
Overall Test Results					Pass

Laboratory Technician

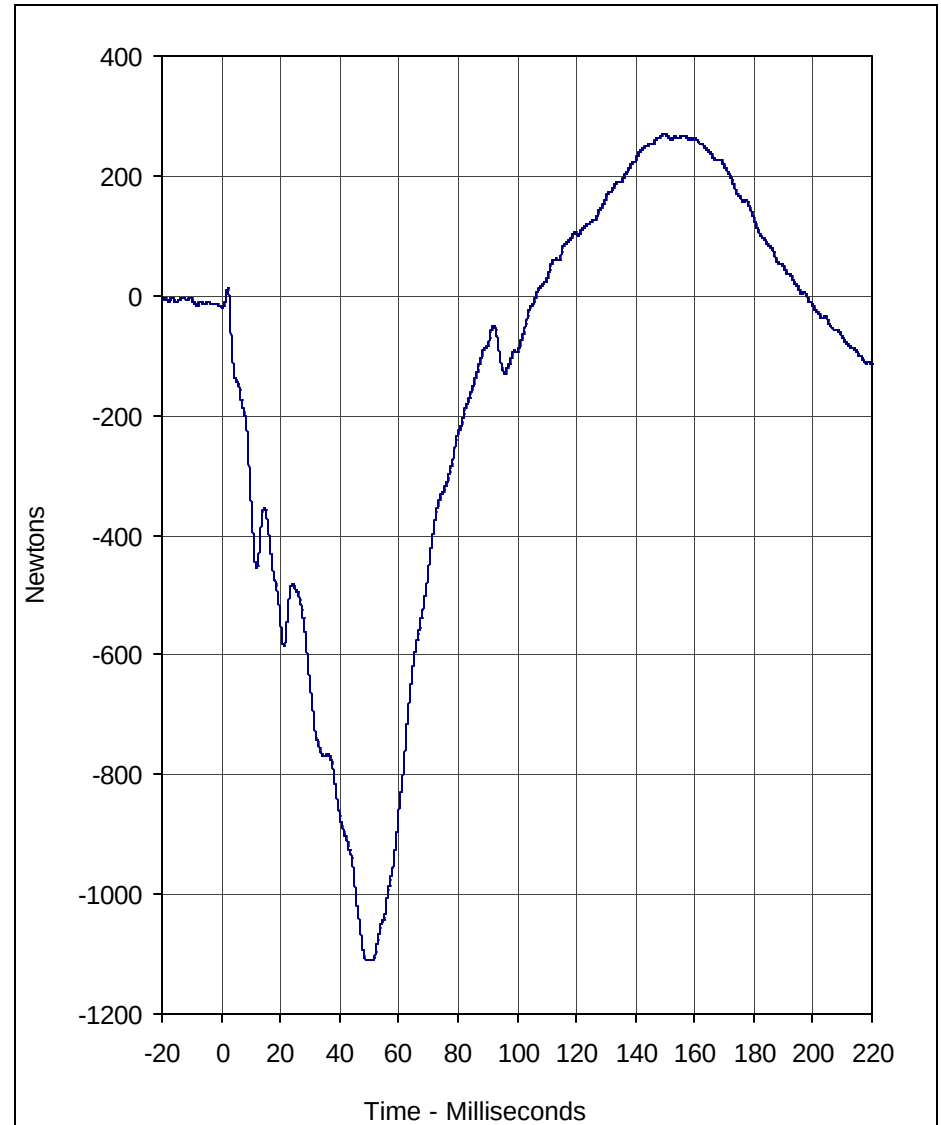
November 1, 2002

Test Date



Curve Description				CURNO	Type
Pendulum Velocity				001	FIL
Units	Max	Time	Min	Time	SAE Class
G's	8.6	196.4	0.0	-20.0	180

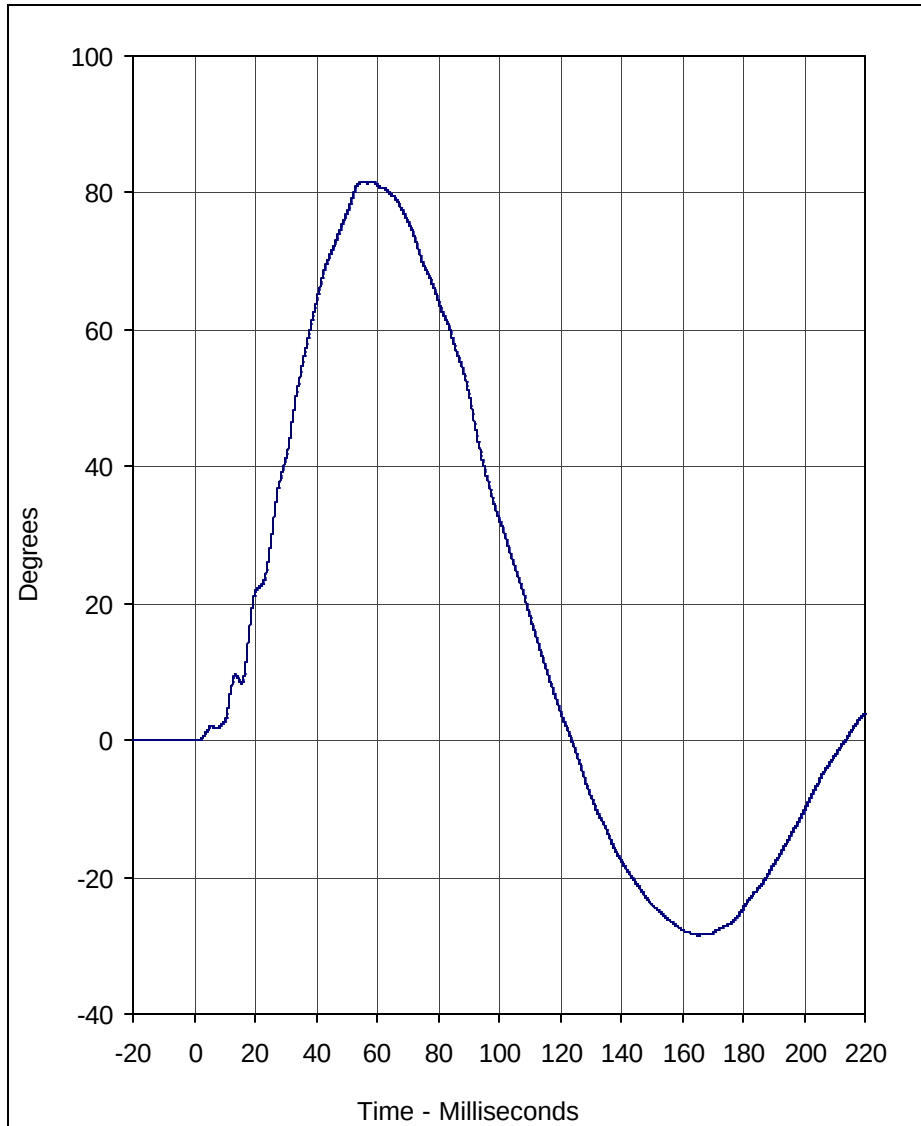
Test Program: SID / HIII Neck Pendulum Lateral Test
 Test Date: 11/1/02



Curve Description				CURNO	Type
Neck Force Y				002	FIL
Units	Max	Time	Min	Time	SAE Class
Newtons	269.7	149.7	-1110.6	49.3	180

A.T.D. Serial No.: 275
 Test I.D.: NB11F

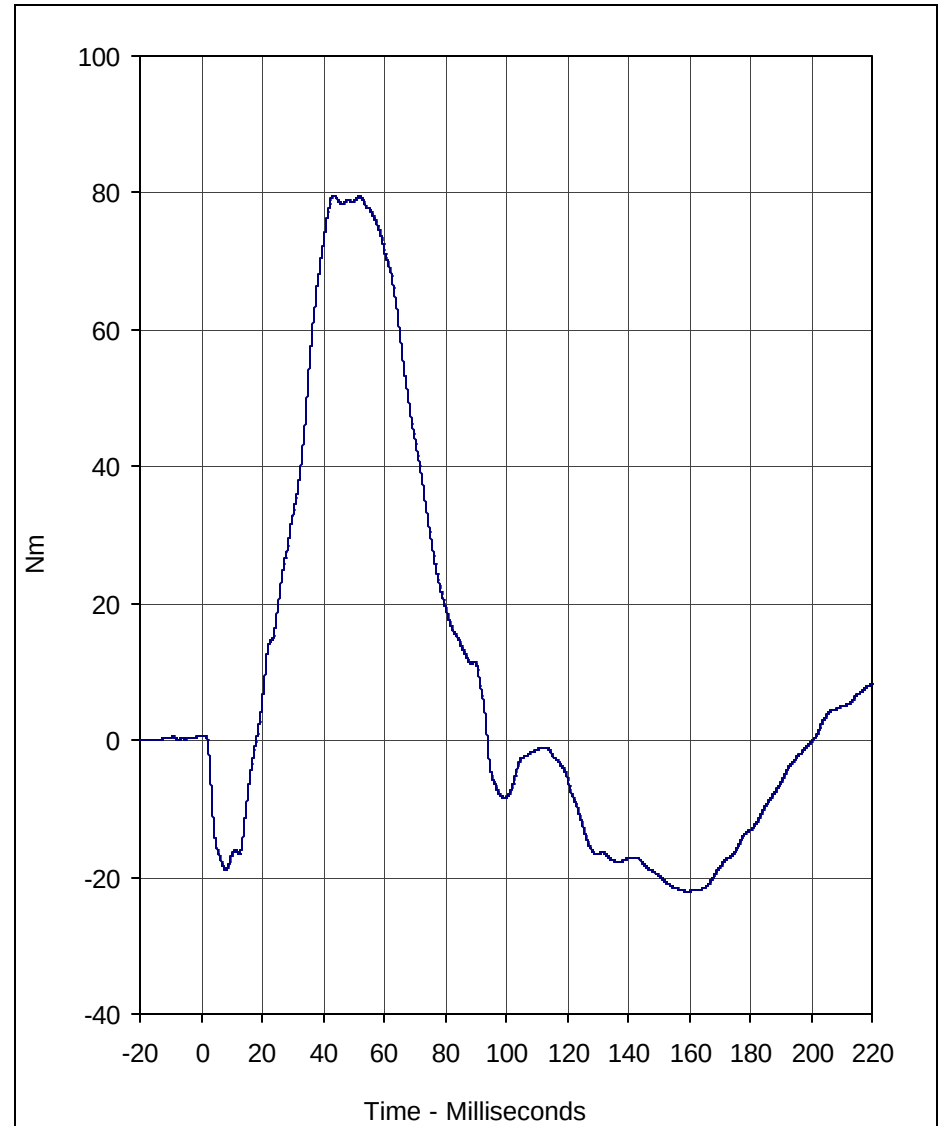




Curve Description				CURNO	Type
"D" Plane Rotation				003	FIL
Units	Max	Time	Min	Time	SAE Class
Degrees	81.6	58.3	-28.5	165.3	180

Test Program: SID / HIII Neck Pendulum Lateral Test

Test Date: 11/1/02



Curve Description				CURNO	Type
Moment About Occipital Condyle				004	FIL
Units	Max	Time	Min	Time	SAE Class
Nm	79.6	43.4	-22.1	160.0	180

A.T.D. Serial No.: 275

Test I.D.: NB11F



APPENDIX C
POST-TEST SID / HIII CONFIGURATION AND PERFORMANCE VERIFICATION DATA



Calibration Data Sheet Side Impact Hybrid Dummy (SID/HIII) External Measurements

ATD Serial No.: 274

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
SH- Seated Height	mm	889 to 909	905	Pass
HP- Hip Point Height	mm	99 (reference)	99	Pass
RH- Rib Height	mm	502 to 520	515	Pass
KH- Knee Pivot From Back Line	mm	511 to 526	515	Pass
KV- Knee Pivot From Floor	mm	490 to 505	495	Pass
HW- Hip Width	mm	356 to 391	375	Pass
Overall Test Results				Pass

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TR-P23003-03-NC

Laboratory Technician

November 13, 2002

Test Date



Calibration Data Sheet

Side Impact Hybrid Dummy (SID/HIII)

Thorax Lateral Impact

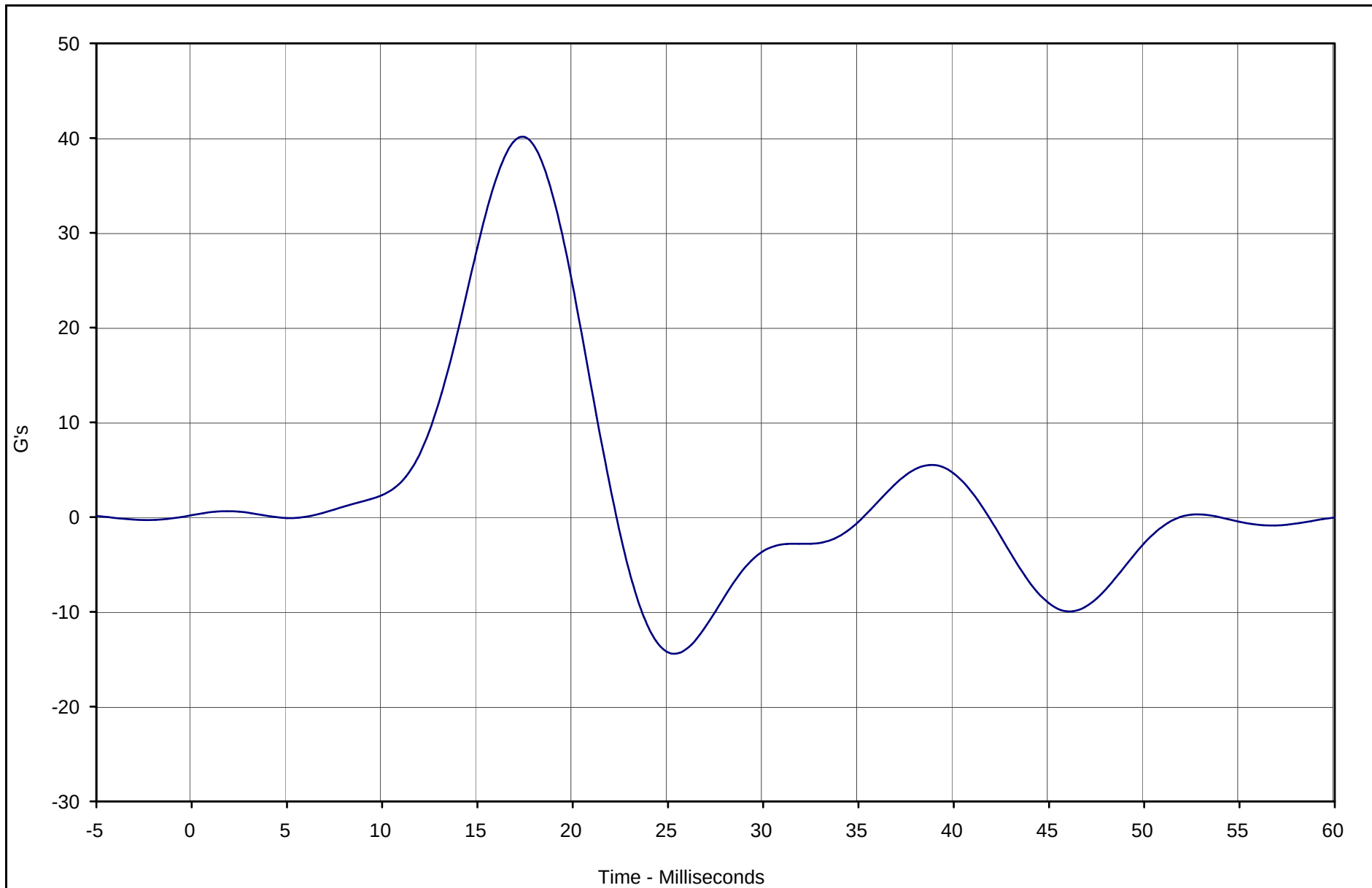
ATD Serial No.: 274

Test I.D.: TI11A

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
Probe Velocity	m/s	4.21 to 4.33	4.24	Pass
Upper Rib Acceleration	G's	37.0 to 46.0	40.1	Pass
Lower Rib Acceleration	G's	37.0 to 46.0	39.5	Pass
Thoracic Spine Acceleration	G's	15.0 to 22.0	17.0	Pass
Overall Test Results				Pass

Laboratory Technician

November 13, 2002
Test Date



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Upper Rib Y Acceleration	001	FIL	G's	40.1	17.5	-14.3	25.6	FIR100

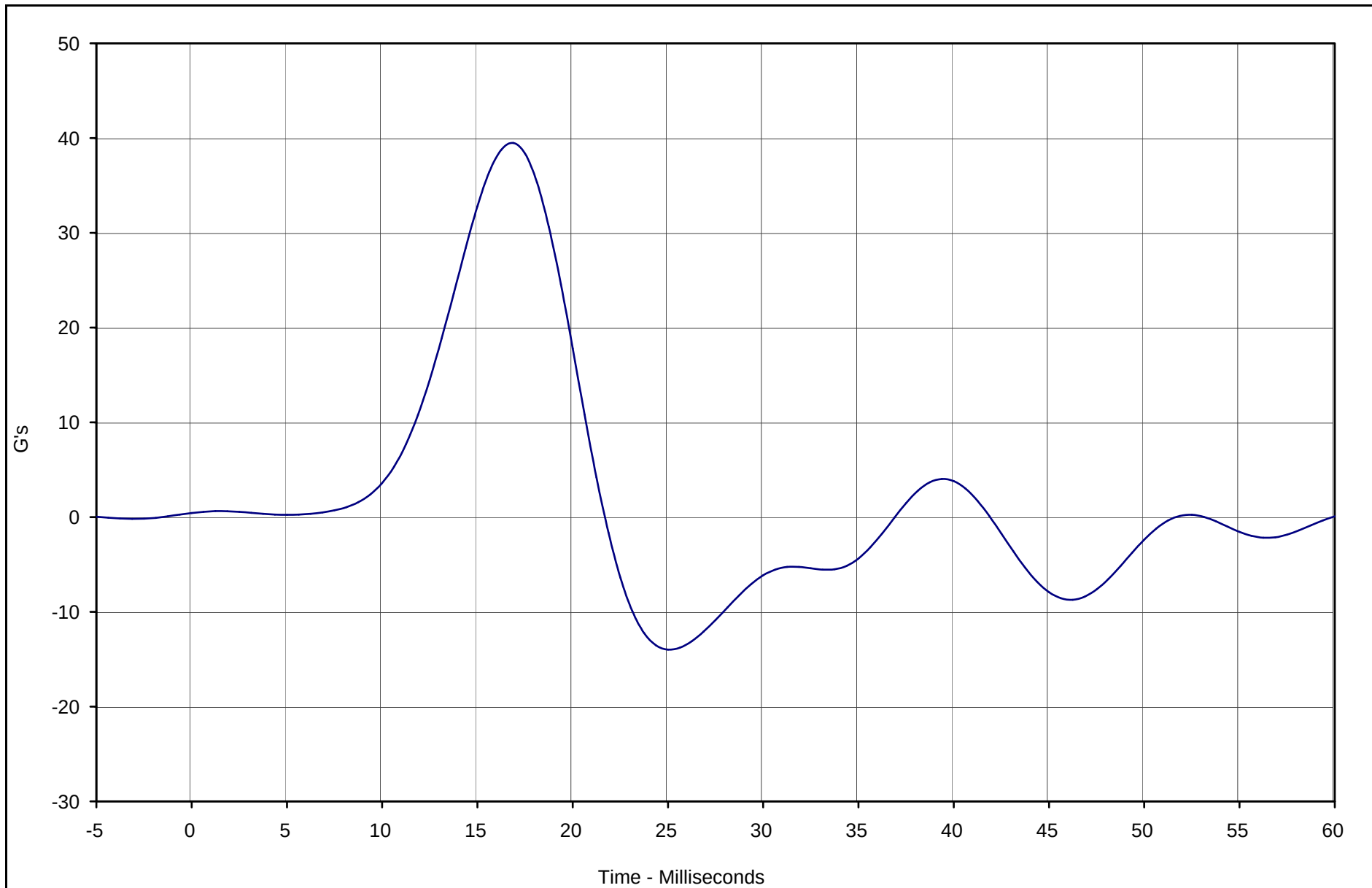


Test Vehicle: SID / HIII Thorax Lateral Impact

SID Serial No.: 274

Test Date: 11/13/02

Test I.D.: TI11A



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Lower Rib Y Acceleration	002	FIL	G's	39.5	16.9	-14.0	25.0	FIR100

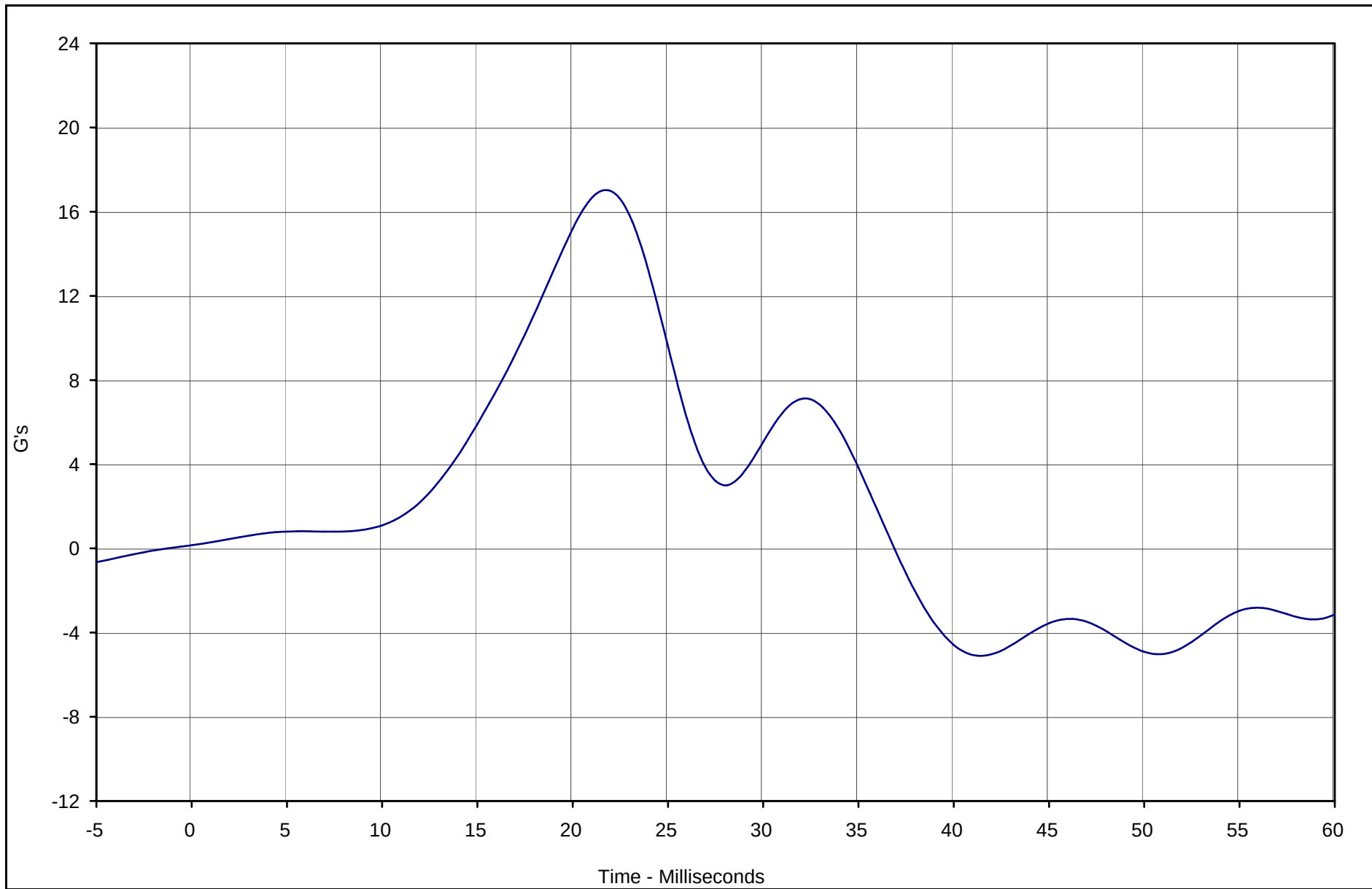


Test Vehicle: SID / HIII Thorax Lateral Impact

SID Serial No.: 274

Test Date: 11/13/02

Test I.D.: TI11A



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Lower Spine Y Acceleration	003	FIL	G's	17.0	21.9	-5.1	41.3	FIR100



Test Vehicle: SID / HIII Thorax Lateral Impact

SID Serial No.: 274

Test Date: 11/13/02

Test I.D.: TI11A



Calibration Data Sheet

Side Impact Hybrid Dummy (SID/HIII)

Pelvis Lateral Impact

ATD Serial No.: 274

Test I.D.: PI11B

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
Probe Velocity	m/s	4.21 to 4.33	4.30	Pass
Peak Pelvis Acceleration	G's	40.0 to 60.0	54.2	Pass
Acceleration Time Above 20 G's	Msec.	3.0 to 7.0	6.9	Pass
Overall Test Results				Pass

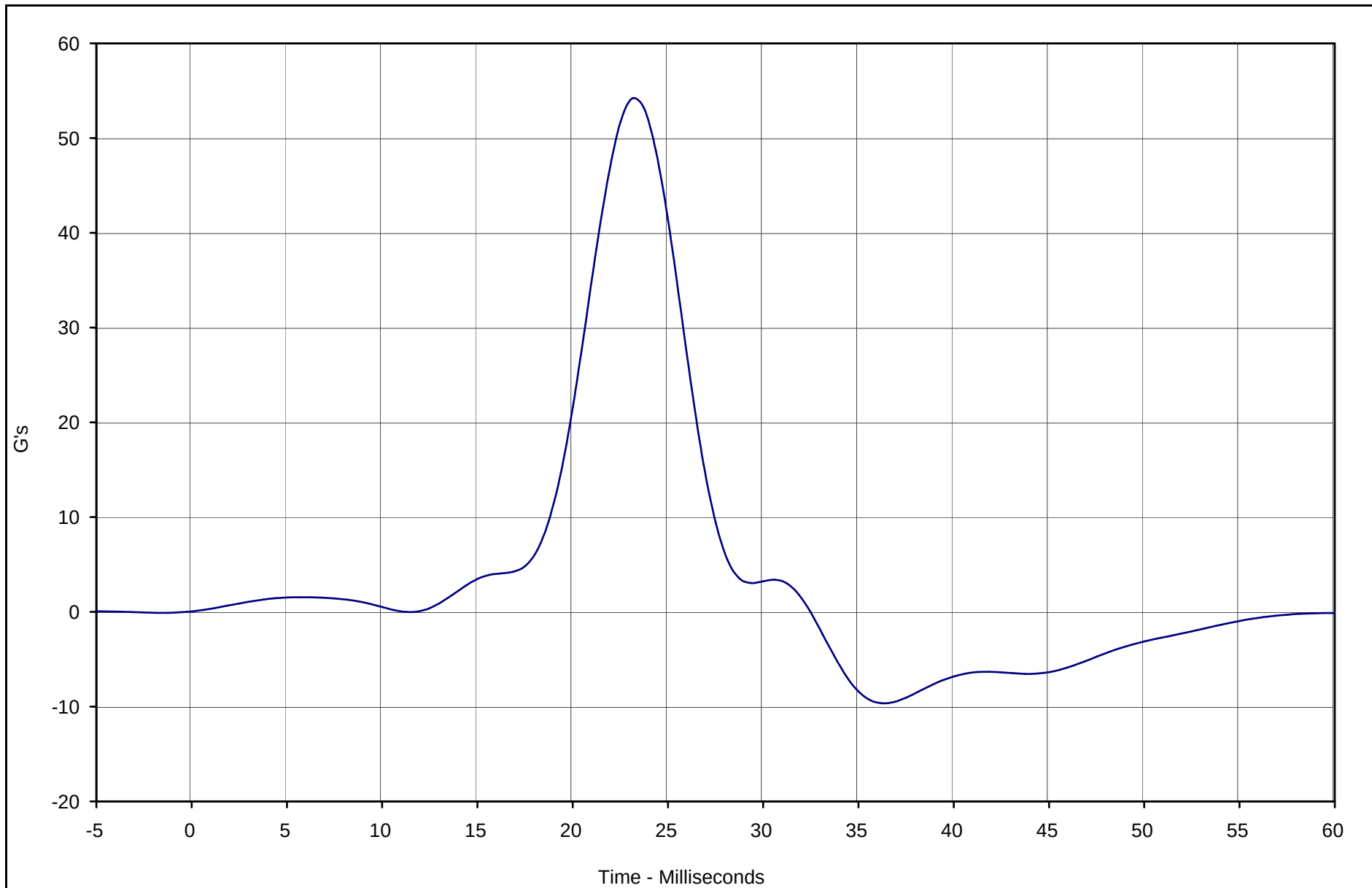
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Laboratory Technician

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Test Date



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pelvis Y Acceleration	001	FIL	G's	54.2	23.1	-9.7	0.0	FIR100



Test Vehicle: Side Impact Dummy (SID) Pelvis Lateral Impact

SID Serial No.: 274

Test Date: 11/13/02

Test I.D.: PI11B



Calibration Data Sheet

Side Impact Hybrid Dummy (SID/HIII)

Head Drop Lateral Impact Test

ATD Serial No.: 274

Test I.D.: SH12A

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	120.0 to 150.0	128.0	Pass
Peak Longitudinal Acceleration	G's	≤15.0	8.3	Pass
Is Acceleration Unimodal?	Yes/No	Yes	Yes	Pass
Oscillations After Main Pulse	%	<10	1.8	Pass
Overall Test Results				Pass

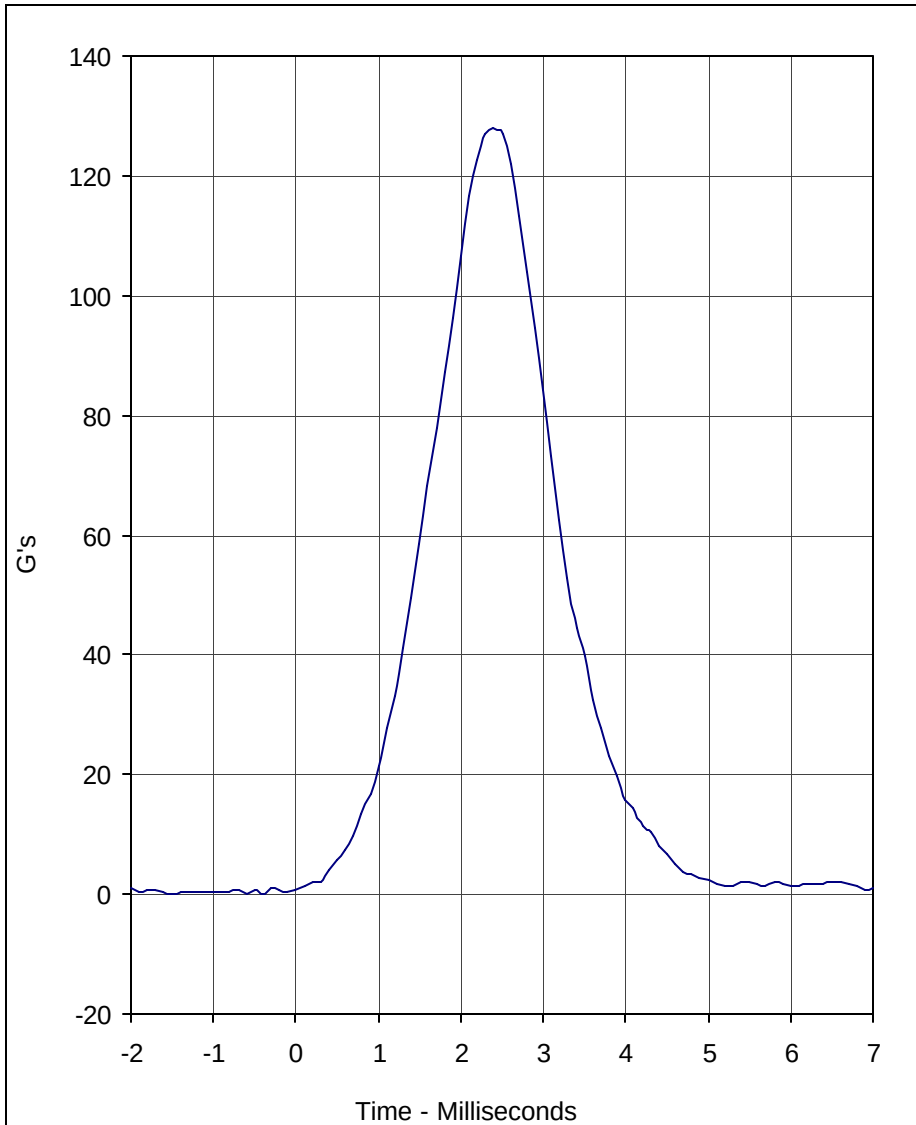
C-32

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Laboratory Technician

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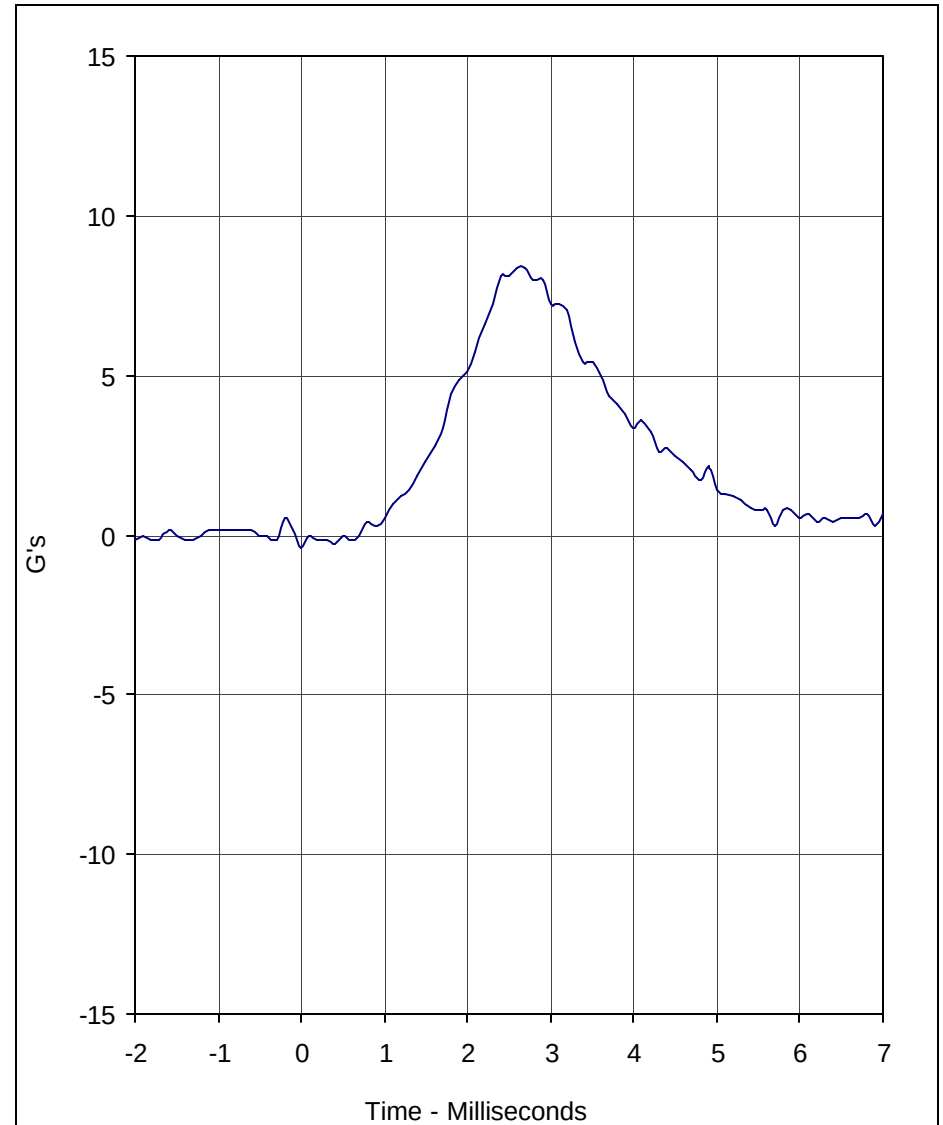
Test Date



Curve Description				CURNO	Type
Head Resultant				001	RES
Units	Max	Time	Min	Time	SAE Class
G's	128.0	2.4	0.0	-1.5	1000

Test Program: SID / HIII Head Drop Lateral Impact Test

Test Date: 11/13/02



Curve Description				CURNO	Type
Head X				002	FIL
Units	Max	Time	Min	Time	SAE Class
G's	8.3	2.6	-0.4	0.0	1000

A.T.D. Serial No.: 274

Test I.D.: SH12A





Calibration Data Sheet

Side Impact Hybrid Dummy (SID/HIII)

Neck Pendulum Lateral Test

ATD Serial No.: 274

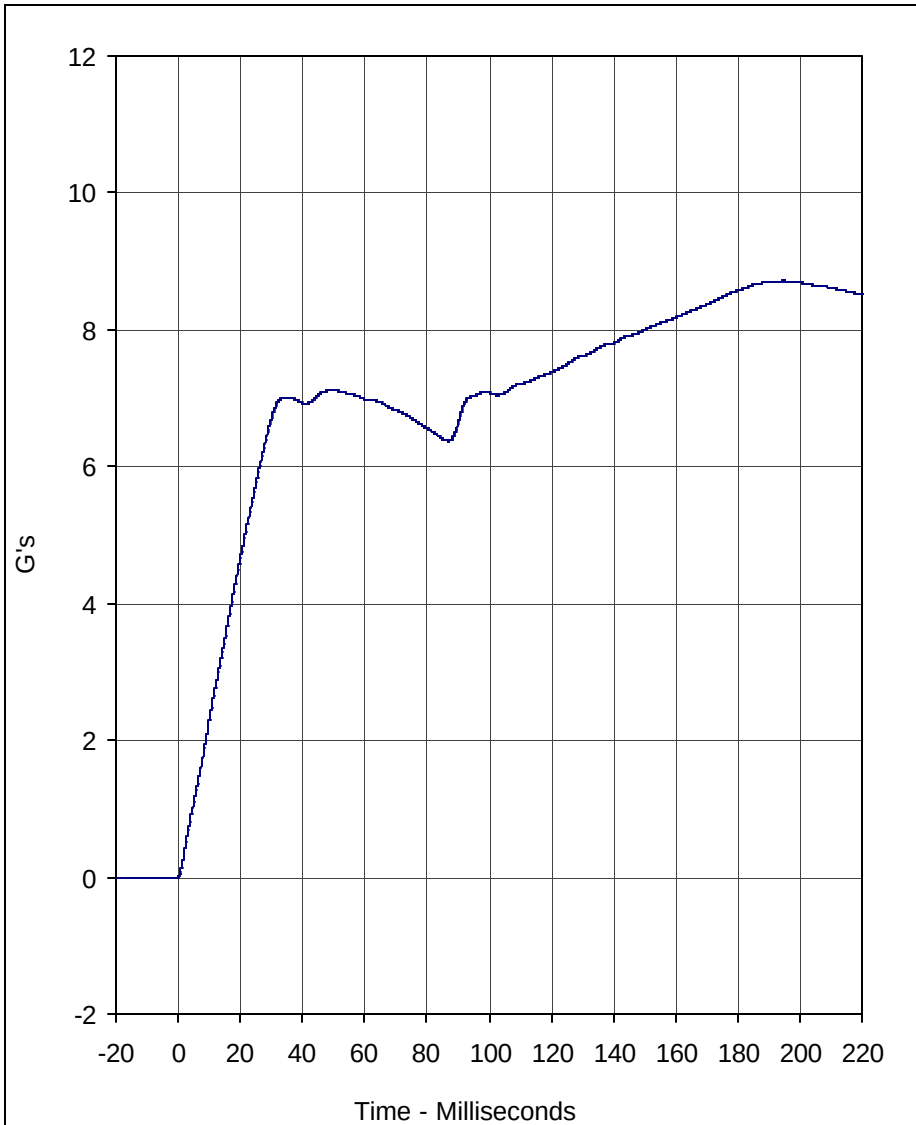
Test I.D.: NB11C

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	6.97	Pass
Pendulum Deceleration	10	Msec.	1.96 to 2.55	2.28	Pass
	20	Msec.	4.12 to 5.10	4.66	Pass
	30	Msec.	5.73 to 7.01	6.71	Pass
	40 to 70	Msec.	6.27 to 7.64	7.11	Pass
Maximum "D" Plane Rotation		Degrees	66.0 to 82.0	74.5	Pass
Maximum "D" Plane Rotation Time After Peak Moment		Msec.	2.0 to 15.0	13.6	Pass
"D" Plane Rotation Decay Time From Peak Angle to Zero Angle		Msec.	58.0 to 67.0	61.2	Pass
Calculated Moment About Occipital Condyle		N•m	73.0 to 88.0	83.8	Pass
Moment About Occipital Condyle Decay, Time From Positive Peak Value To 0 N•m		Msec.	49.0 to 64.0	49.5	Pass
Overall Test Results				Pass	

Laboratory Technician

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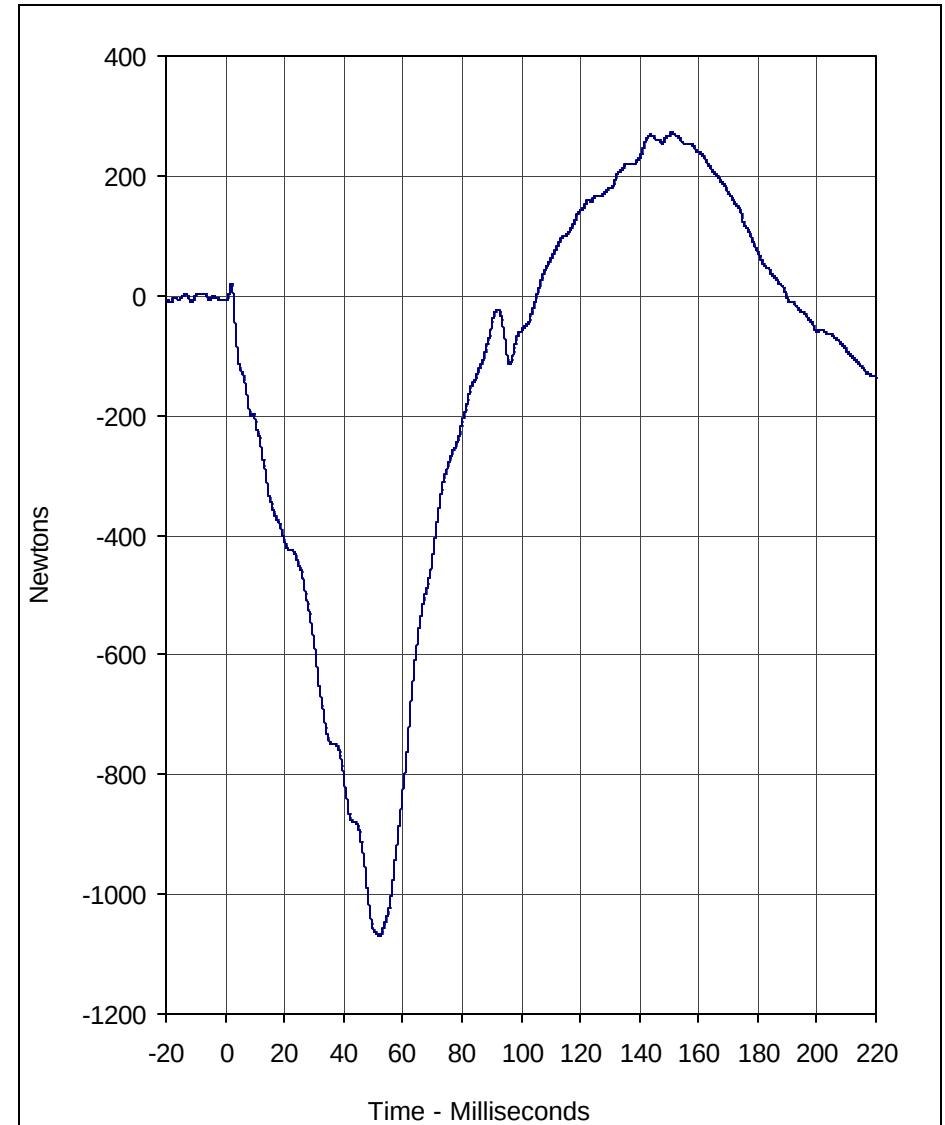
Test Date



Curve Description				CURNO	Type
Pendulum Velocity				001	FIL
Units	Max	Time	Min	Time	SAE Class
G's	8.7	194.7	0.0	-0.6	180

Test Program: SID / HIII Neck Pendulum Lateral Test

Test Date: 11/13/02

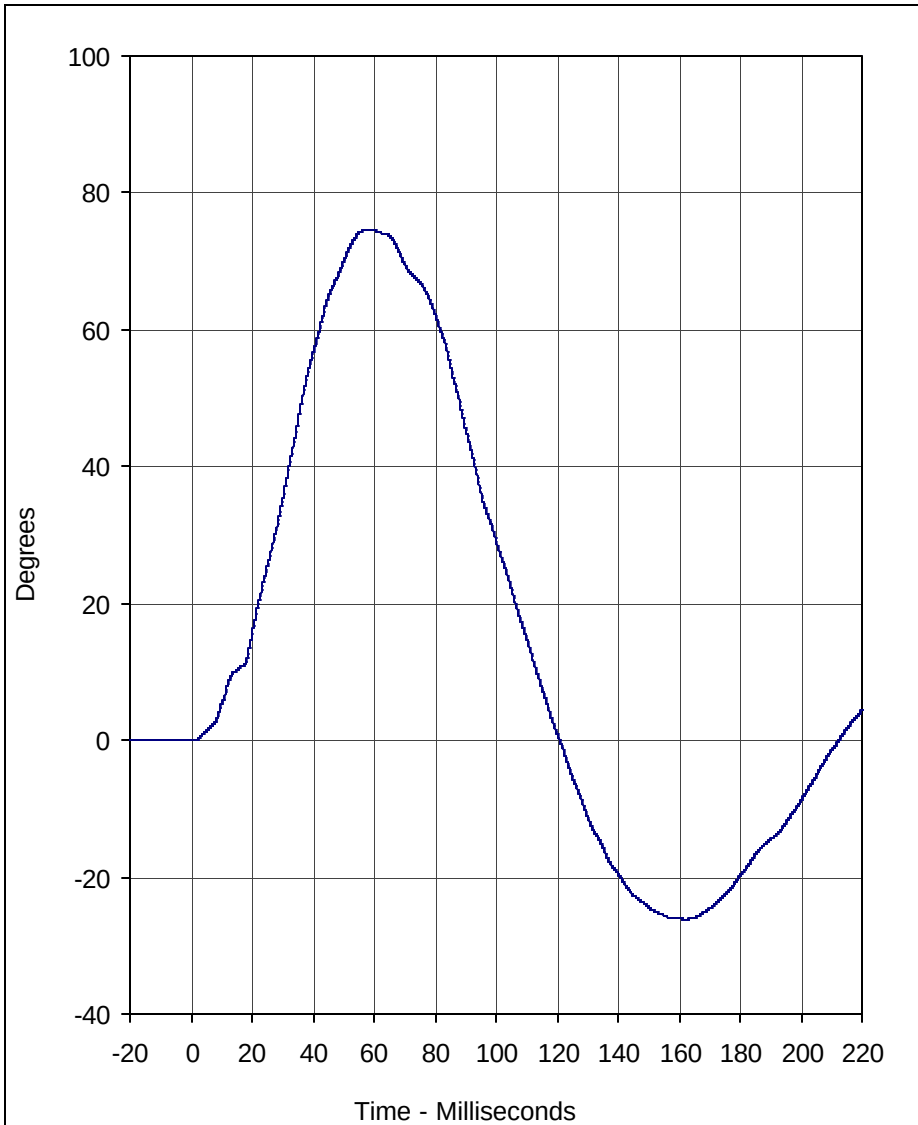


Curve Description				CURNO	Type
Neck Force Y				002	FIL
Units	Max	Time	Min	Time	SAE Class
Newtons	271.7	150.9	-1069.2	52.0	180

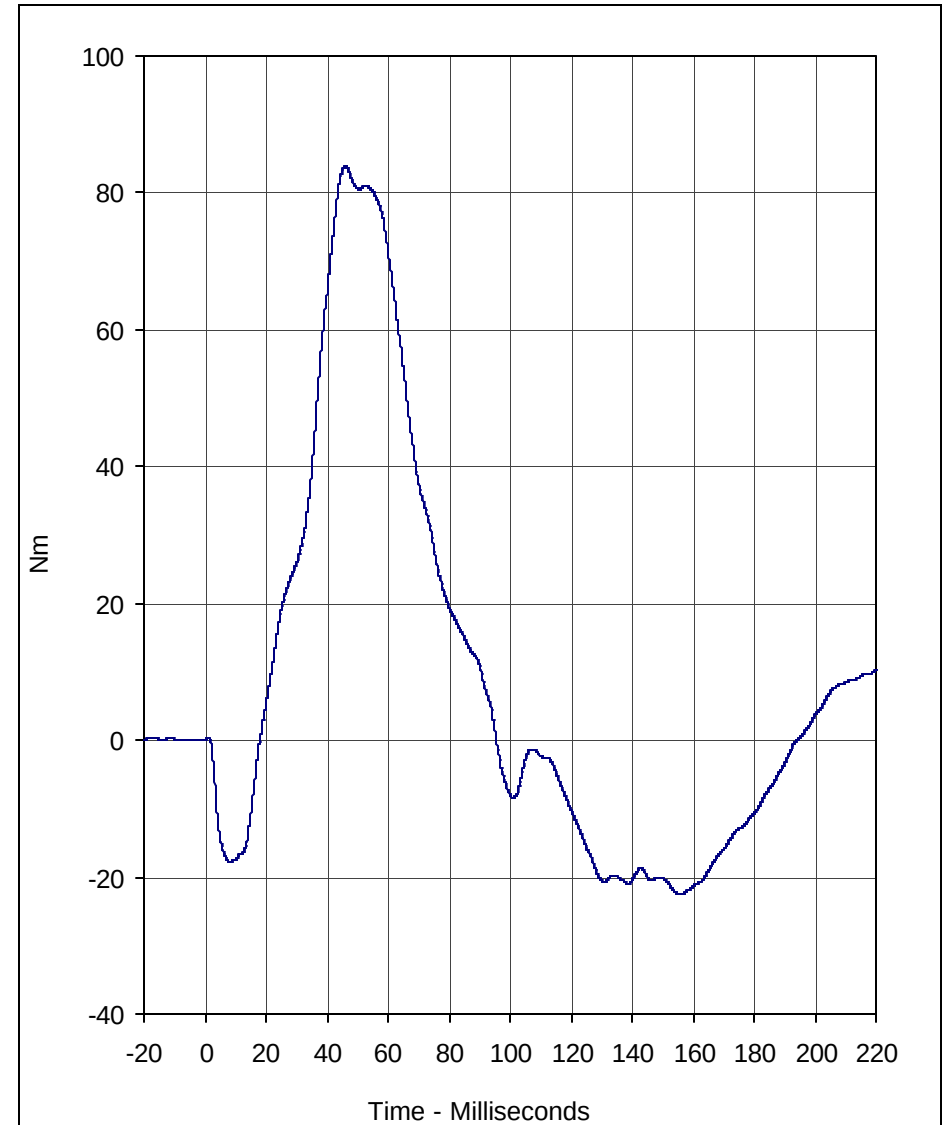
A.T.D. Serial No.: 274

Test I.D.: NB11C





Curve Description				CURNO	Type
"D" Plane Rotation				003	FIL
Units	Max	Time	Min	Time	SAE Class
Degrees	74.5	59.7	-26.2	162.0	180



Curve Description				CURNO	Type
Moment About Occipital Condyle				004	FIL
Units	Max	Time	Min	Time	SAE Class
Nm	83.8	46.1	-22.5	156.1	180

Test Program: SID / HIII Neck Pendulum Lateral Test

Test Date: 11/13/02

A.T.D. Serial No.: 274

Test I.D.: NB11C





Calibration Data Sheet Side Impact Hybrid Dummy (SID/HIII) External Measurements

ATD Serial No.: 275

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
SH- Seated Height	mm	889 to 909	900	Pass
HP- Hip Point Height	mm	99 (reference)	99	Pass
RH- Rib Height	mm	502 to 520	510	Pass
KH- Knee Pivot From Back Line	mm	511 to 526	520	Pass
KV- Knee Pivot From Floor	mm	490 to 505	500	Pass
HW- Hip Width	mm	356 to 391	380	Pass
Overall Test Results				Pass

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Laboratory Technician

November 13, 2002

Test Date



Calibration Data Sheet

Side Impact Hybrid Dummy (SID/HIII)

Thorax Lateral Impact

ATD Serial No.: 275

Test I.D.: TI10G

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
Probe Velocity	m/s	4.21 to 4.33	4.30	Pass
Upper Rib Acceleration	G's	37.0 to 46.0	42.2	Pass
Lower Rib Acceleration	G's	37.0 to 46.0	41.3	Pass
Thoracic Spine Acceleration	G's	15.0 to 22.0	20.1	Pass
Overall Test Results				Pass

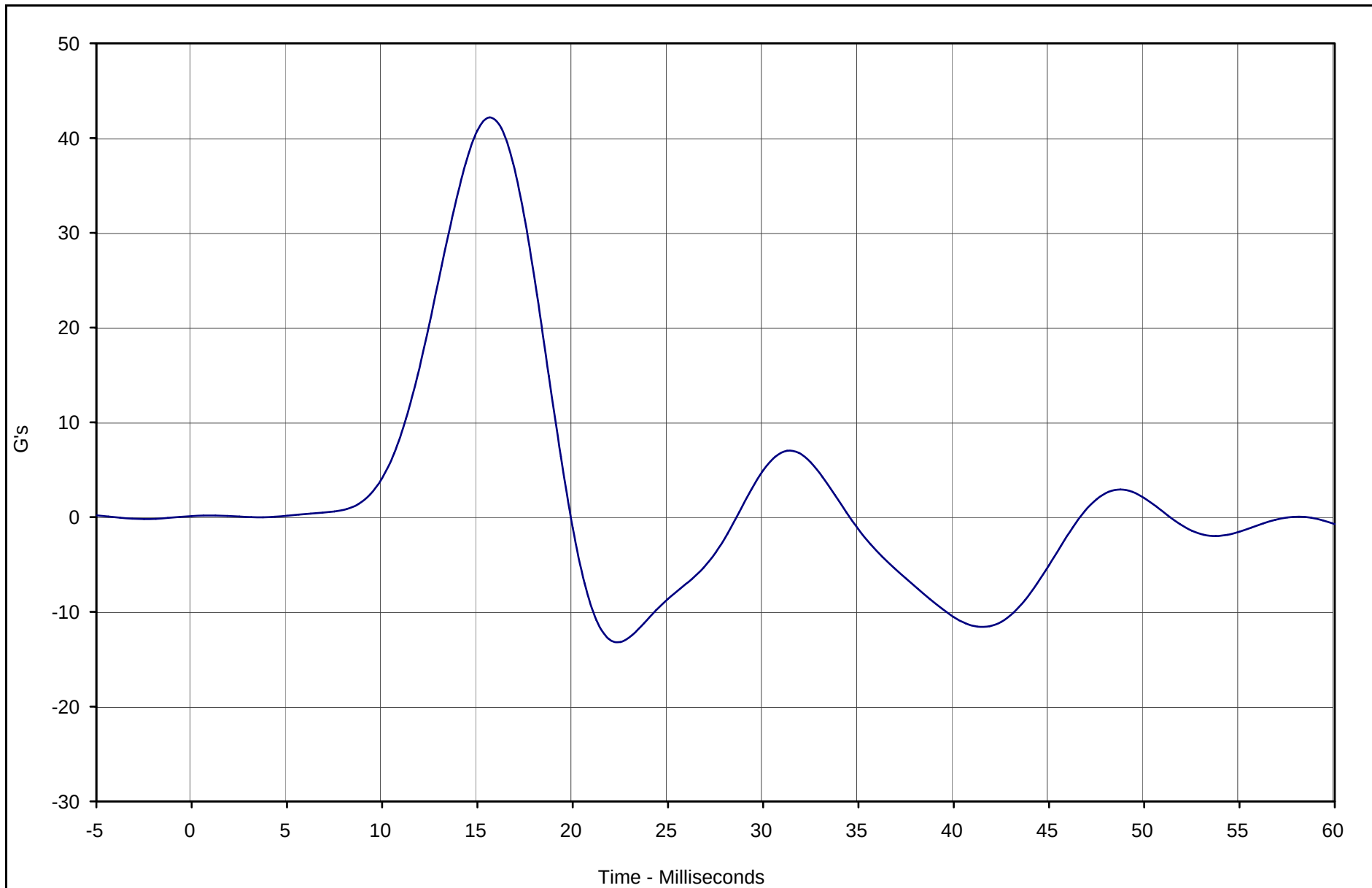
C-38

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Laboratory Technician

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Test Date



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Upper Rib Y Acceleration	001	FIL	G's	42.2	15.6	-13.2	22.5	FIR100



Test Vehicle: SID / HIII Thorax Lateral Impact

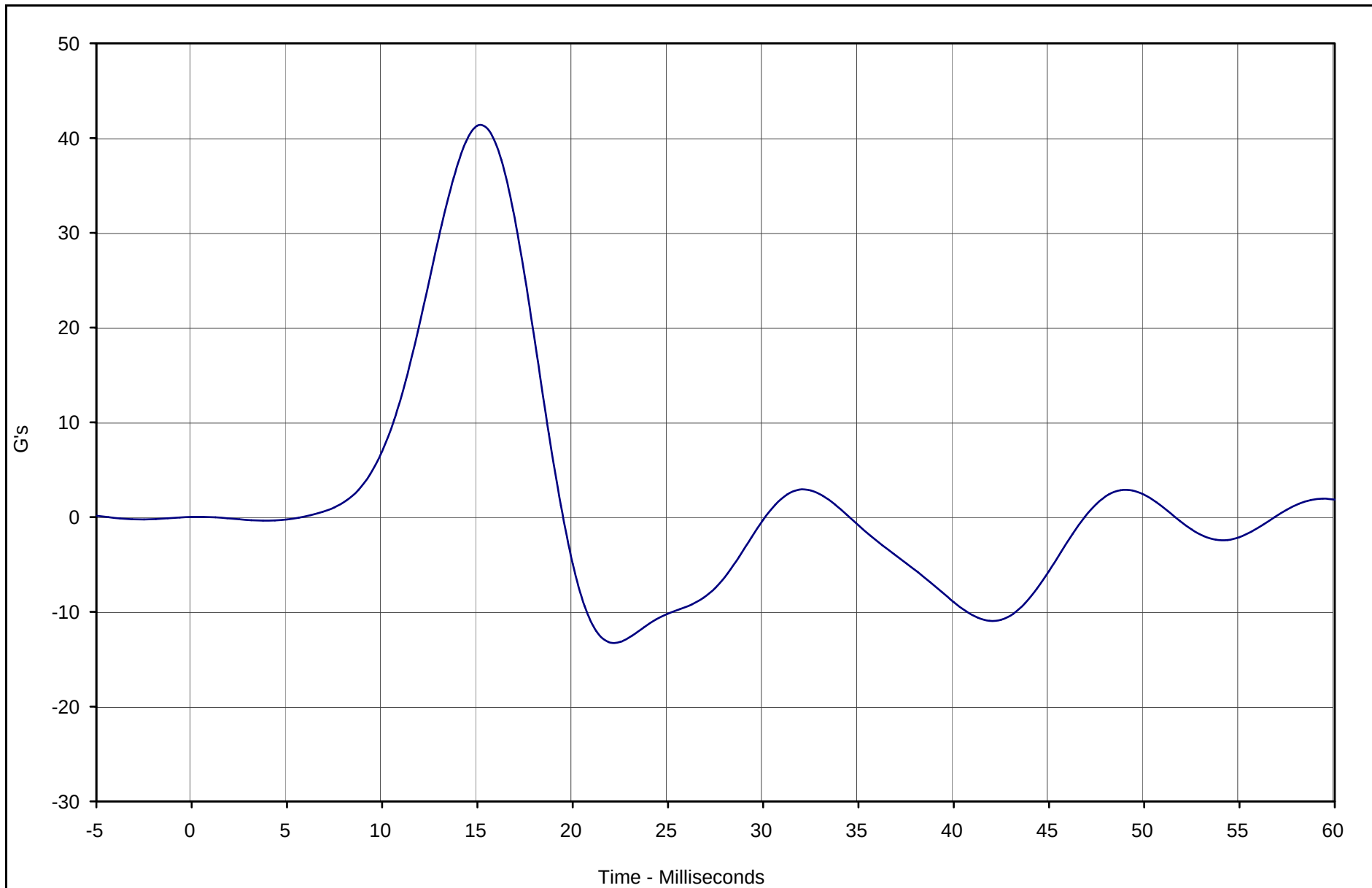
SID Serial No.: 275

Test Date: 11/13/02

Test I.D.: TI10G

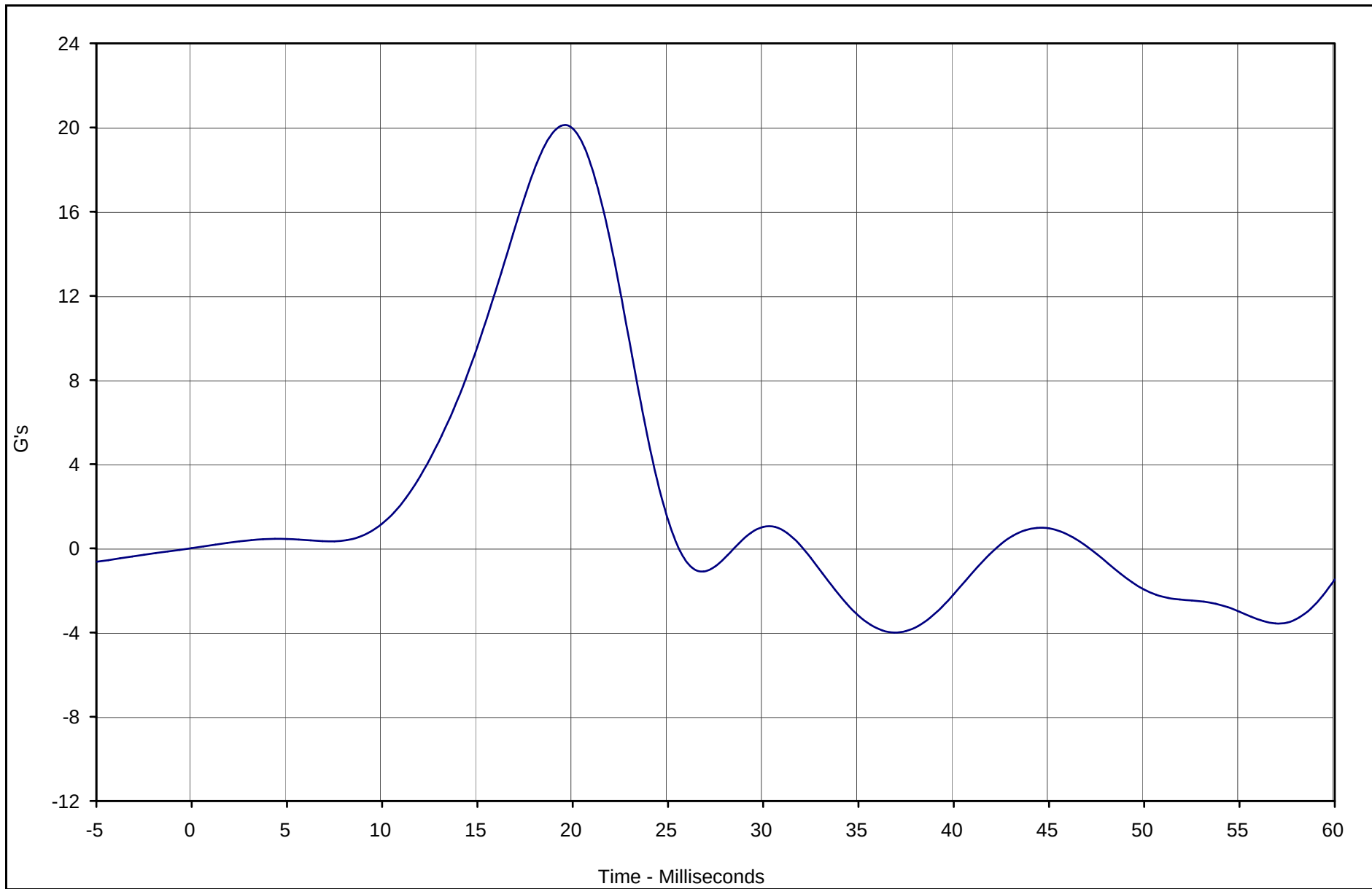
C-40

TR-P23003-03-NC



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Lower Rib Y Acceleration	002	FIL	G's	41.3	15.0	-13.2	21.9	FIR100

Test Vehicle: SID / HIII Thorax Lateral ImpactSID Serial No.: 275Test Date: 11/13/02Test I.D.: TI10G



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Lower Spine Y Acceleration	003	FIL	G's	20.1	19.4	-4.0	36.9	FIR100



Test Vehicle: SID / HIII Thorax Lateral Impact

SID Serial No.: 275

Test Date: 11/13/02

Test I.D.: TI10G



Calibration Data Sheet

Side Impact Hybrid Dummy (SID/HIII)

Pelvis Lateral Impact

ATD Serial No.: 275

Test I.D.: PI11C

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
Probe Velocity	m/s	4.21 to 4.33	4.28	Pass
Peak Pelvis Acceleration	G's	40.0 to 60.0	46.5	Pass
Acceleration Time Above 20 G's	Msec.	3.0 to 7.0	6.9	Pass
Overall Test Results				Pass

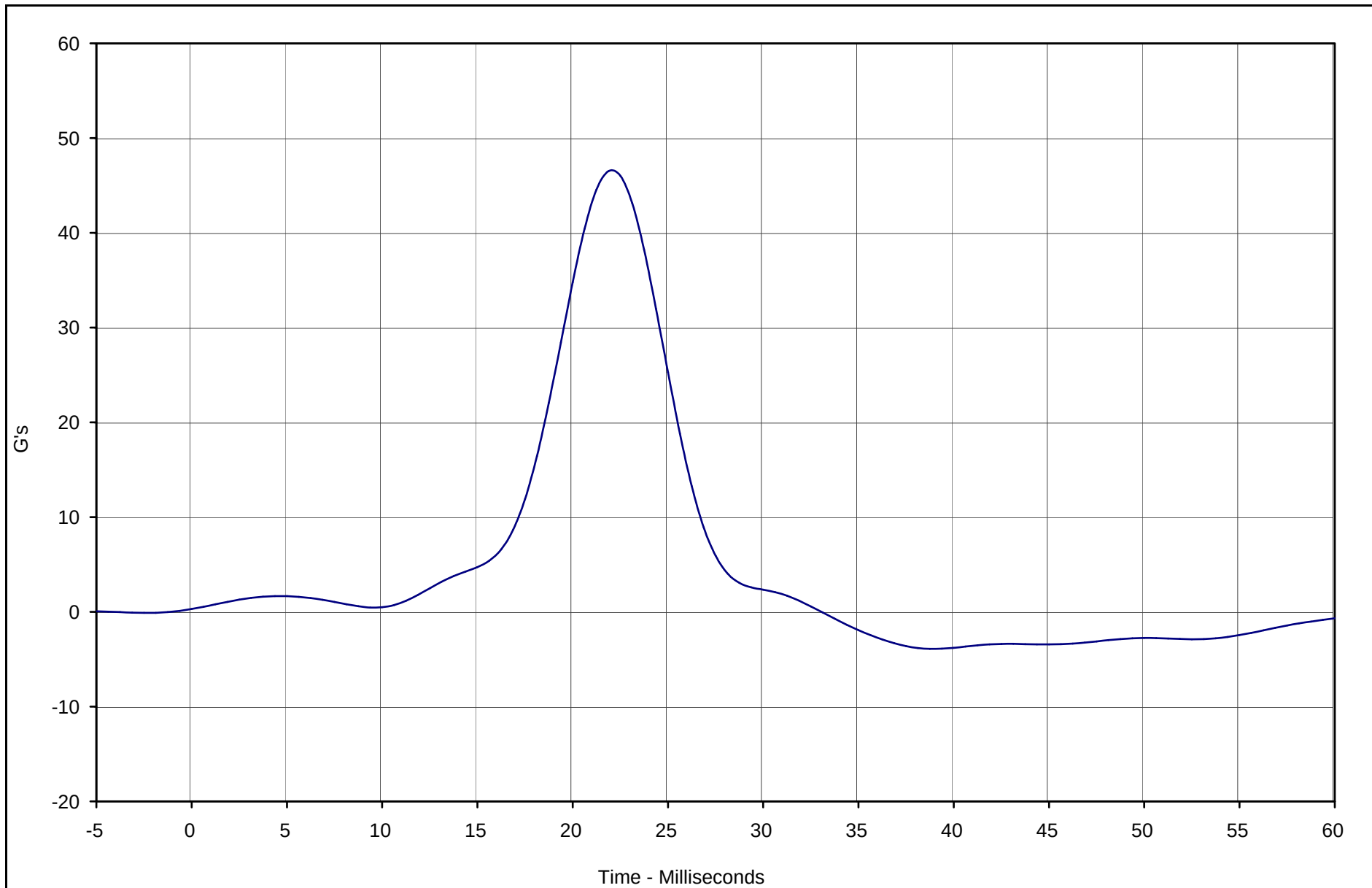
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TR-P23003-03-NC

Laboratory Technician

November 13, 2002

Test Date



Curve Description	CURNO	Type	Units	Max	Time	Min	Time	SAE Class
Pelvis Y Acceleration	001	FIL	G's	46.5	21.9	-9.3	0.0	FIR100



Test Vehicle: Side Impact Dummy (SID) Pelvis Lateral Impact

SID Serial No.: 275

Test Date: 11/13/02

Test I.D.: PI11C



Calibration Data Sheet

Side Impact Hybrid Dummy (SID/HIII)

Head Drop Lateral Impact Test

ATD Serial No.: 275

Test I.D.: SH12B

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	120.0 to 150.0	131.7	Pass
Peak Longitudinal Acceleration	G's	≤15.0	8.9	Pass
Is Acceleration Unimodal?	Yes/No	Yes	Yes	Pass
Oscillations After Main Pulse	%	<10	3.9	Pass
Overall Test Results				Pass

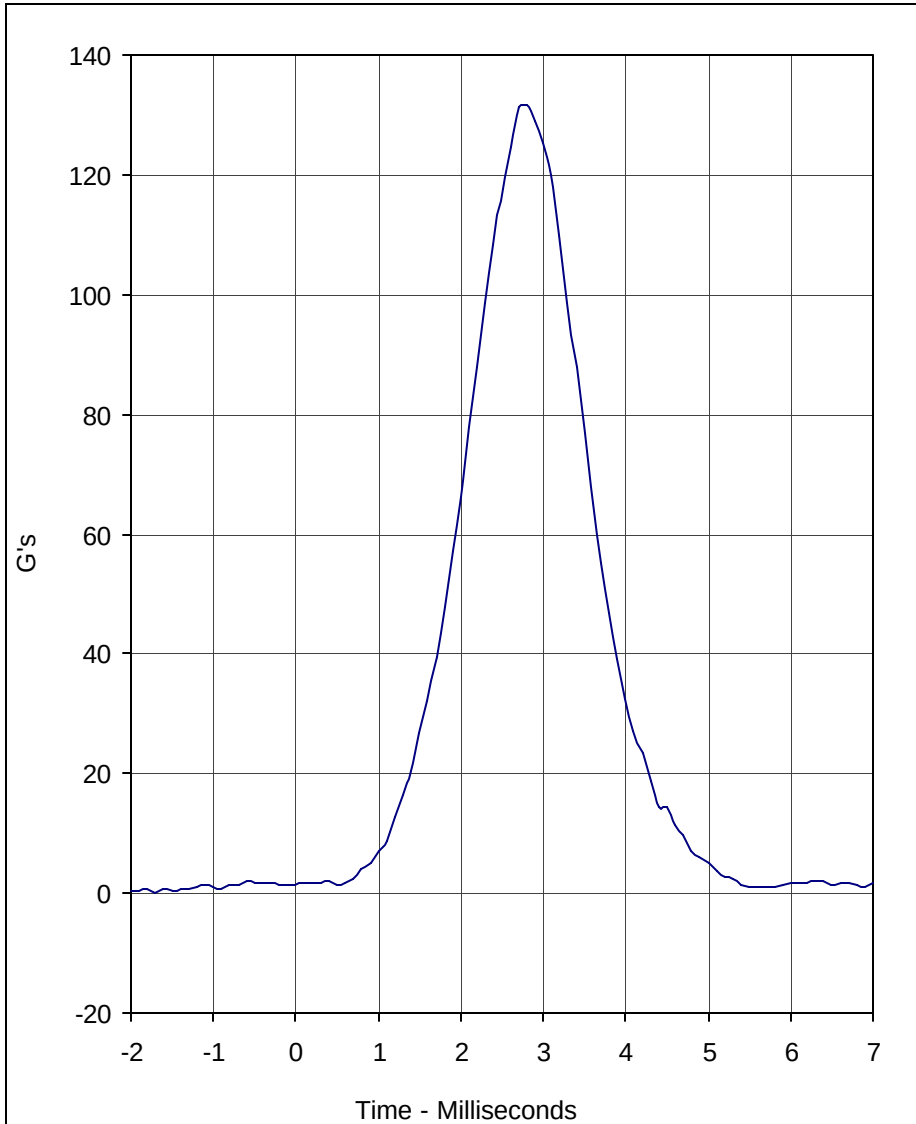
C-44

TR-P23003-03-NC

Laboratory Technician

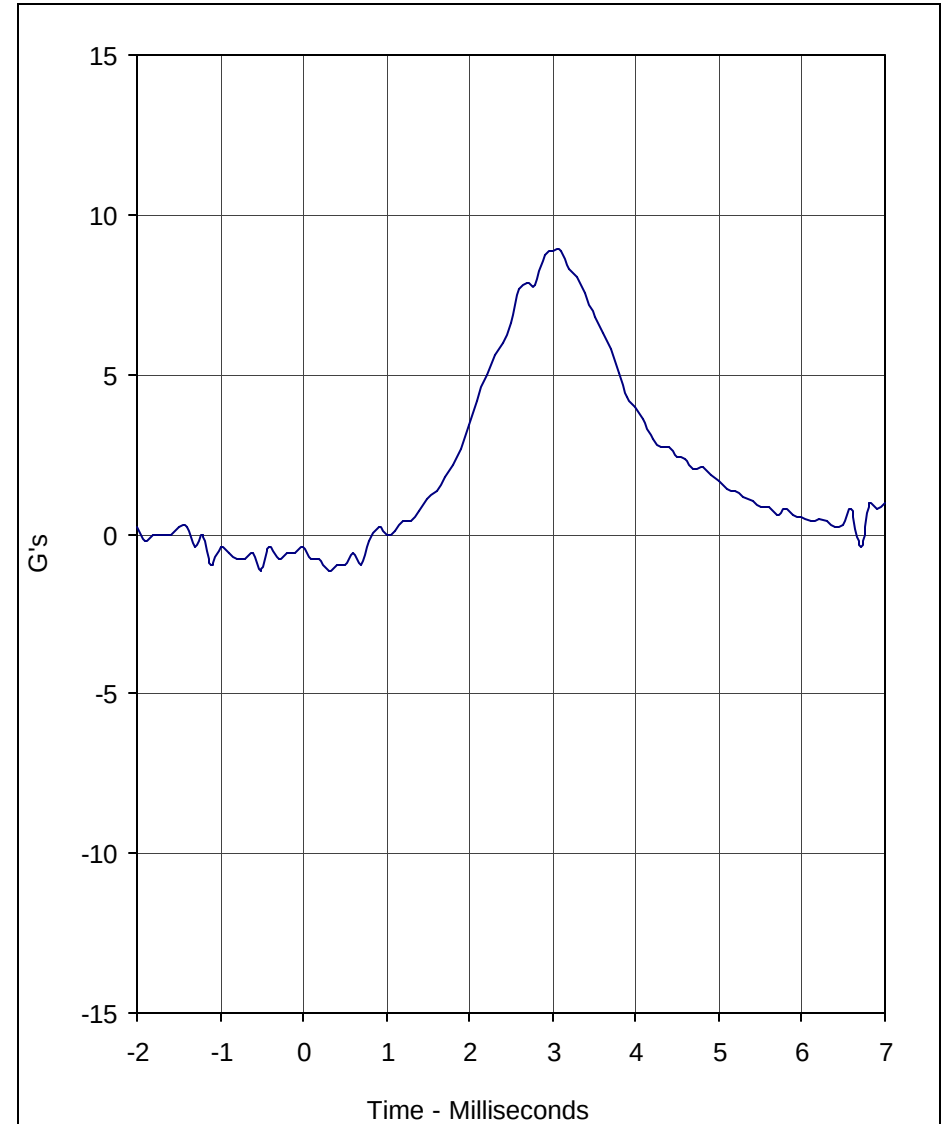
November 13, 2002

Test Date



Curve Description				CURNO	Type
Head Resultant				001	RES
Units	Max	Time	Min	Time	SAE Class
G's	131.7	2.8	0.0	-1.7	1000

Test Program: SID / HIII Head Drop Lateral Impact Test
 Test Date: 11/13/02



Curve Description				CURNO	Type
Head X				002	FIL
Units	Max	Time	Min	Time	SAE Class
G's	8.9	3.0	-1.2	-0.5	1000

A.T.D. Serial No.: 275
 Test I.D.: SH12B





Calibration Data Sheet

Side Impact Hybrid Dummy (SID/HIII)

Neck Pendulum Lateral Test

ATD Serial No.: 275

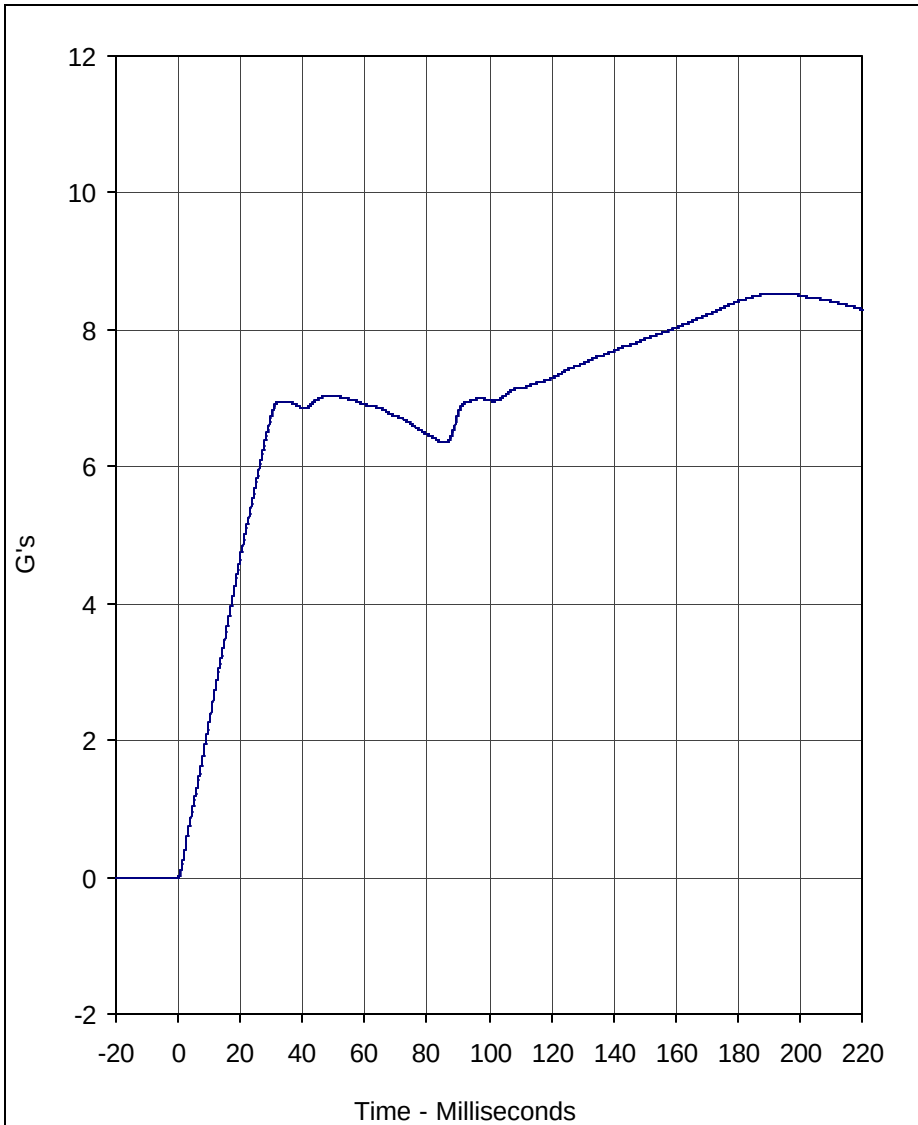
Test I.D.: NB11D

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	7.03	Pass
Pendulum Deceleration	10	Msec.	1.96 to 2.55	2.27	Pass
	20	Msec.	4.12 to 5.10	4.67	Pass
	30	Msec.	5.73 to 7.01	6.75	Pass
	40 to 70	Msec.	6.27 to 7.64	7.04	Pass
Maximum "D" Plane Rotation		Degrees	66.0 to 82.0	73.5	Pass
Maximum "D" Plane Rotation Time After Peak Moment		Msec.	2.0 to 15.0	14.8	Pass
"D" Plane Rotation Decay Time From Peak Angle to Zero Angle		Msec.	58.0 to 67.0	63.2	Pass
Calculated Moment About Occipital Condyle		N•m	73.0 to 88.0	79.4	Pass
Moment About Occipital Condyle Decay, Time From Positive Peak Value To 0 N•m		Msec.	49.0 to 64.0	50.4	Pass
Overall Test Results				Pass	

Laboratory Technician

November 13, 2002

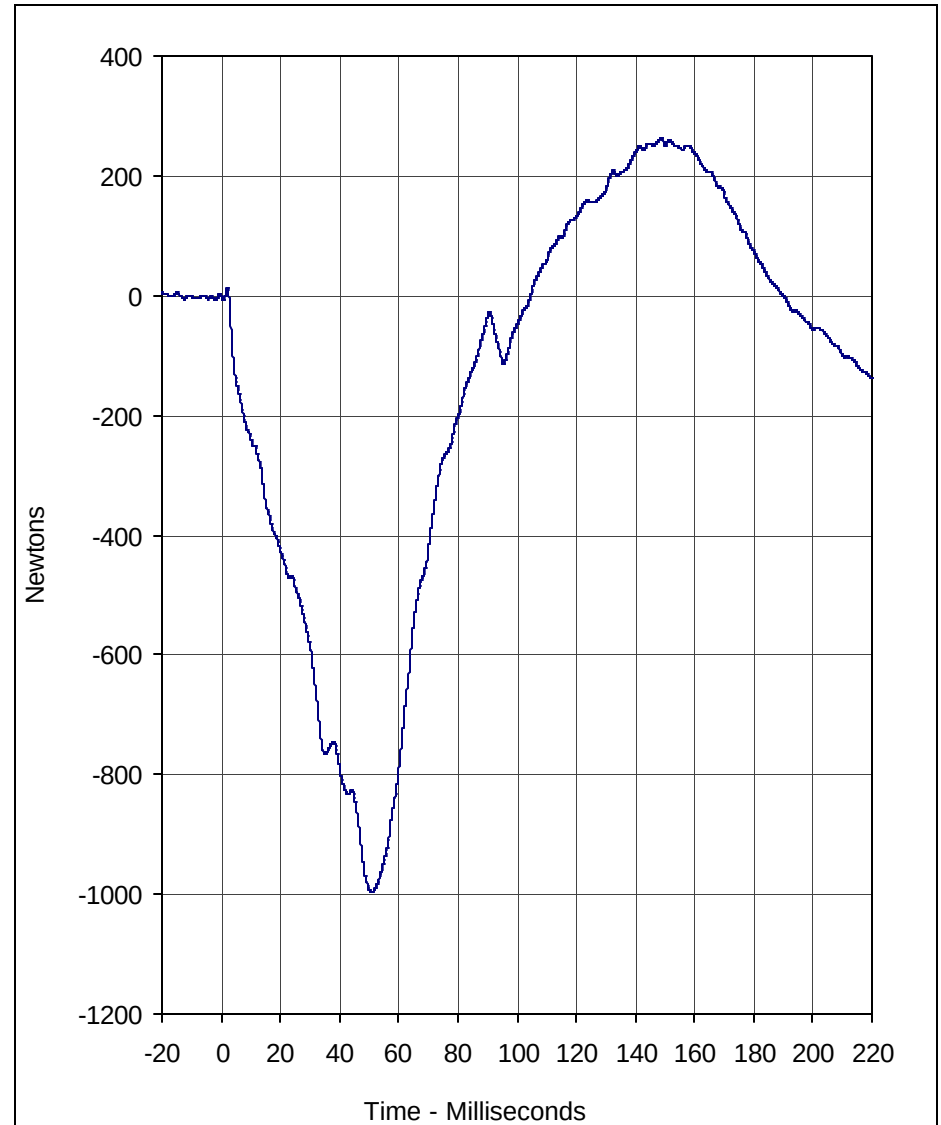
Test Date



Curve Description				CURNO	Type
Pendulum Velocity				001	FIL
Units	Max	Time	Min	Time	SAE Class
G's	8.5	194.5	0.0	-0.6	180

Test Program: SID / HIII Neck Pendulum Lateral Test

Test Date: 11/13/02

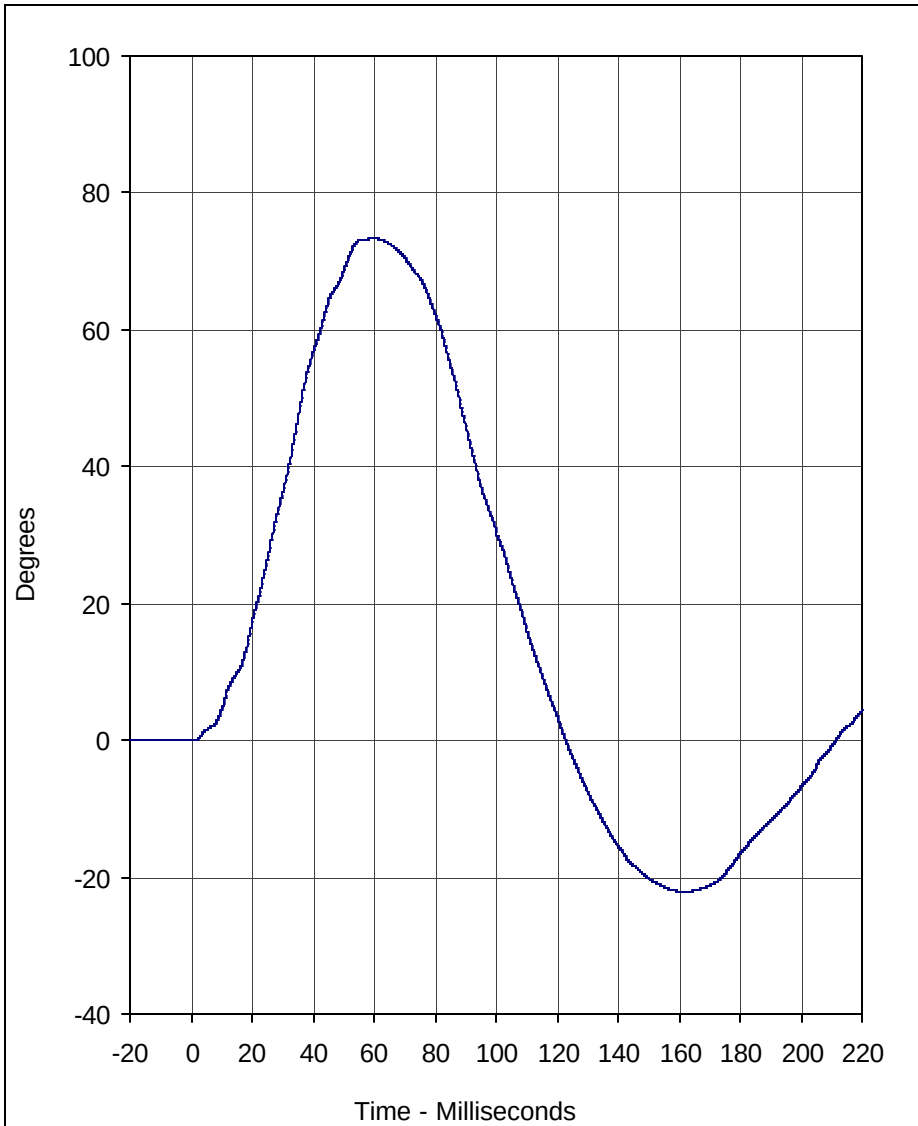


Curve Description				CURNO	Type
Neck Force Y				002	FIL
Units	Max	Time	Min	Time	SAE Class
Newtons	263.5	148.5	-996.7	50.8	180

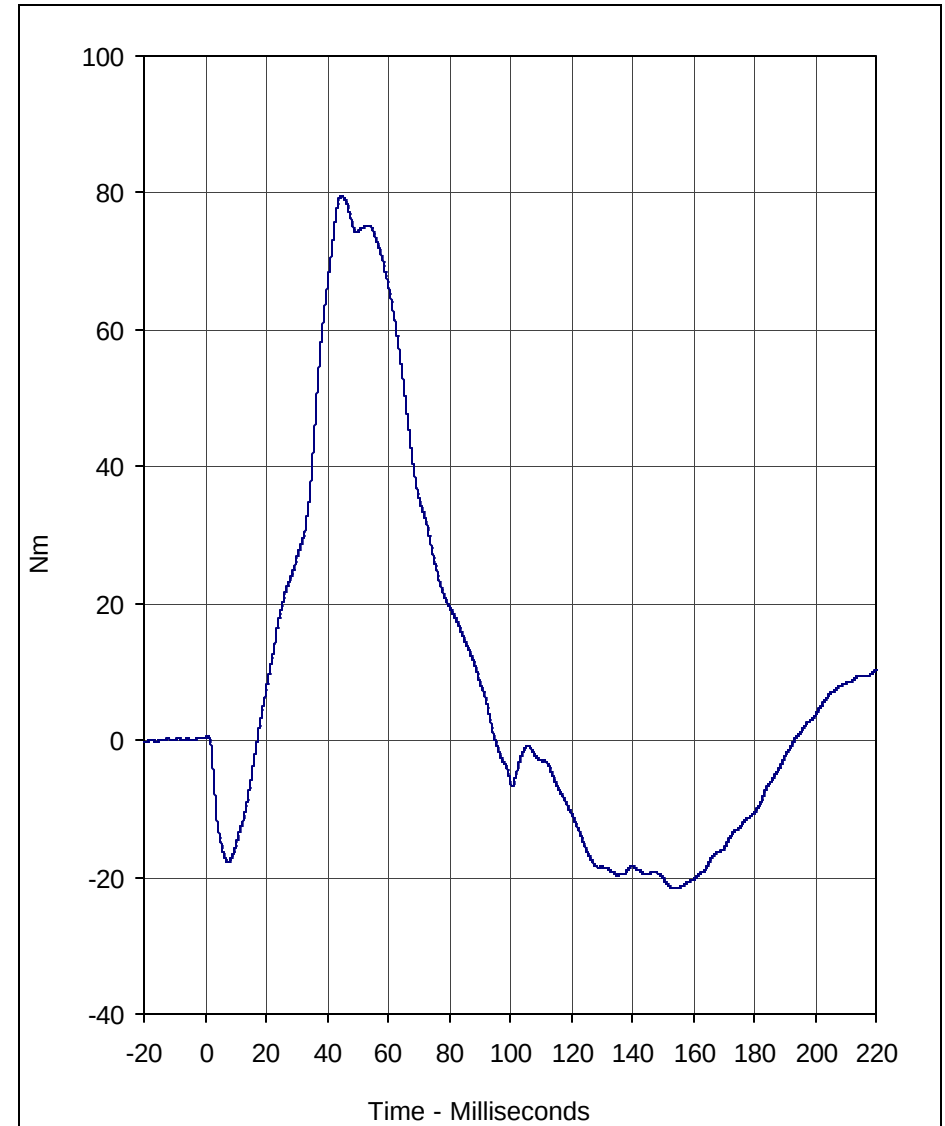
A.T.D. Serial No.: 275

Test I.D.: NB11D





Curve Description				CURNO	Type
"D" Plane Rotation				003	FIL
Units	Max	Time	Min	Time	SAE Class
Degrees	73.5	59.6	-22.1	160.2	180



Curve Description				CURNO	Type
Moment About Occipital Condyle				004	FIL
Units	Max	Time	Min	Time	SAE Class
Nm	79.4	44.8	-21.6	153.8	180

Test Program: SID / HIII Neck Pendulum Lateral Test
 Test Date: 11/13/02

A.T.D. Serial No.: 275
 Test I.D.: NB11D



APPENDIX D
TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

55/28 km/h Side Impact NCAP
Instrumentation Data Channel Assignments
Driver HIII/SID Serial Number 274
11/12/02
2003 Ford Crown Victoria 4 Door Sedan

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
1	Head CG	X	KEAC086	Accel.,1/2 bridge	Endevco	7264-2000X	G
2	Head CG	Y	KEAC087	Accel.,1/2 bridge	Endevco	7264-2000Y	G
3	Head CG	Z	KEAC088	Accel.,1/2 bridge	Endevco	7264-2000Z	G
4	Head CG, Redundant	X	KEAC060	Accel.,1/2 bridge	Endevco	7264-2000	G
5	Head CG, Redundant	Y	KEAC061	Accel.,1/2 bridge	Endevco	7264-2000	G
6	Head CG, Redundant	Z	KEAC062	Accel.,1/2 bridge	Endevco	7264-2000	G
7	Neck Force	X	GPUN01FX	Load cell, six axis neck	R. A. Denton	1716A	N
8	Neck Force	Y	GPUN01FY	Load cell, six axis neck	R. A. Denton	1716A	N
9	Neck Force	Z	GPUN01FZ	Load cell, six axis neck	R. A. Denton	1716A	N
10	Neck Moment	X	GPUN01MX	Load cell, six axis neck	R. A. Denton	1716A	Nm
11	Neck Moment	Y	GPUN01MY	Load cell, six axis neck	R. A. Denton	1716A	Nm
12	Neck Moment	Z	GPUN01MZ	Load cell, six axis neck	R. A. Denton	1716A	Nm
13	Upper Rib Primary	Y	KEAC070	Accel.,1/2 bridge	Endevco	7264-2000X	G
14	Lower Rib, Primary	Y	KEAC071	Accel.,1/2 bridge	Endevco	7264-2000Y	G
15	Lower Spine, Primary	Y	KEAC072	Accel.,1/2 bridge	Endevco	7264-2000Z	G
16	Pelvis, Primary	Y	KEAC090	Accel.,Full bridge	Endevco	7264-2000X	G
17	Upper Rib Redundant	Y	KEAC076	Accel.,1/2 bridge	Endevco	7264-2000X	G
18	Lower Rib, Redundant	Y	KEAC077	Accel.,1/2 bridge	Endevco	7264-2000Y	G
19	Lower Spine, Redundant	Y	KEAC078	Accel.,1/2 bridge	Endevco	7264-2000Z	G
20	Pelvis, Redundant	Y	KEAC089	Accel.,1/2 bridge	Endevco	7264-2000X	G
21	Thorax Contact	N/A	T0	Contact Switch	Tapeswitch	8 oz. Yellow	%
22	Pelvis Contact	N/A	T0	Contact Switch	Tapeswitch	8 oz. Yellow	%

55/28 km/h Side Impact NCAP
Instrumentation Data Channel Assignments
Passenger HIII/SID Serial Number 275
11/12/02
2003 Ford Crown Victoria 4 Door Sedan

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
23	Head CG	X	KEAC069	Accel.,1/2 bridge	Endevco	7264-2000X	G
24	Head CG	Y	KEAC080	Accel.,1/2 bridge	Endevco	7264-2000Y	G
25	Head CG	Z	KEAC082	Accel.,1/2 bridge	Endevco	7264-2000Z	G
26	Head CG, Redundant	X	KEAC083	Accel.,1/2 bridge	Endevco	7264-2000X	G
27	Head CG, Redundant	Y	KEAC084	Accel.,1/2 bridge	Endevco	7264-2000Y	G
28	Head CG, Redundant	Z	KEAC085	Accel.,1/2 bridge	Endevco	7264-2000Z	G
29	Neck Force	X	GPUN01FX	Load cell, six axis neck	R. A. Denton	1716A	N
30	Neck Force	Y	GPUN01FY	Load cell, six axis neck	R. A. Denton	1716A	N
31	Neck Force	Z	GPUN01FZ	Load cell, six axis neck	R. A. Denton	1716A	N
32	Neck Moment	X	GPUN01MX	Load cell, six axis neck	R. A. Denton	1716A	Nm
33	Neck Moment	Y	GPUN01MY	Load cell, six axis neck	R. A. Denton	1716A	Nm
34	Neck Moment	Z	GPUN01MZ	Load cell, six axis neck	R. A. Denton	1716A	Nm
35	Upper Rib Primary	Y	KEAC066	Accel.,1/2 bridge	Endevco	7264-2000X	G
36	Lower Rib, Primary	Y	KEAC067	Accel.,1/2 bridge	Endevco	7264-2000Y	G
37	Lower Spine, Primary	Y	KEAC068	Accel.,1/2 bridge	Endevco	7264-2000Z	G
38	Pelvis, Primary	Y	KEAC079	Accel.,1/2 bridge	Endevco	7264-2000X	G
39	Upper Rib Redundant	Y	KEAC073	Accel.,1/2 bridge	Endevco	7264-2000X	G
40	Lower Rib, Redundant	Y	KEAC074	Accel.,1/2 bridge	Endevco	7264-2000Y	G
41	Lower Spine, Redundant	Y	KEAC075	Accel.,1/2 bridge	Endevco	7264-2000Z	G
42	Pelvis, Redundant	Y	KEAC081	Accel.,1/2 bridge	Endevco	7264-2000X	G
43	Thorax Contact	Y	T0	Contact Switch	Tapeswitch	8 oz. Yellow	%
44	Pelvis Contact	Y	T0	Contact Switch	Tapeswitch	8 oz. Yellow	%

55/28 km/h Side Impact NCAP
Instrumentation Data Channel Assignments
Vehicle Accelerometers
11/12/02

2003 Ford Crown Victoria 4 Door Sedan

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
45	Right at Sill Front Seat	X	KETX2A	Accel., Triax	I.C. Sensor	3031-200	G
46	Right at Sill Front Seat	Y	KETX2B	Accel., Triax	I.C. Sensor	3031-200	G
47	Right at Sill Front Seat	Z	KETX2C	Accel., Triax	I.C. Sensor	3031-200	G
48	Right at Sill Rear Seat	X	KETX3A	Accel., Triax	I.C. Sensor	3031-500	G
49	Right at Sill Rear Seat	Y	KETX3B	Accel., Triax	I.C. Sensor	3031-500	G
50	Right at Sill Rear Seat	Z	KETX3C	Accel., Triax	I.C. Sensor	3031-500	G
51	Rear Floorpan Above Axle	X	KETX4A	Accel., Triax	I.C. Sensor	3031-500	G
52	Rear Floorpan Above Axle	Y	KETX4B	Accel., Triax	I.C. Sensor	3031-500	G
53	Rear Floorpan Above Axle	Z	KETX4C	Accel., Triax	I.C. Sensor	3031-500	G
54	Left Sill at Rear Door	Y	KEVA012	Accel., Vehicle block	I.C. Sensor	3031-500	G
55	Left Sill at Front Door	Y	KEVA001	Accel., Vehicle block	I.C. Sensor	3031-500	G
56	Left Front Door Centerline	Y	ICST004X	Accel., Triax	I.C. Sensor	3031-500	G
57	Rear Occupant Compartment	Y	KEVA006	Accel., Vehicle block	I.C. Sensor	3031-200	G
58	Left Front Door Mid-Rear	Y	ICST004Y	Accel., Triax	I.C. Sensor	3031-500	G
59	Left Front Door Upper Centerline	Y	ICST004Z	Accel., Triax	I.C. Sensor	3031-500	G
60	Rear Door Mid-Rear	Y	ICST005X	Accel., Triax	I.C. Sensor	3031-500	G
61	Rear Door Upper Centerline	Y	ICST005Y	Accel., Triax	I.C. Sensor	3031-500	G
62	B-Post Lower	Y	KEBX2A	Accel., Biax	I.C. Sensor	3031-500	G
63	B-Post Middle	Y	KEBX2B	Accel., Biax	I.C. Sensor	3031-500	G
64	A-Post Lower	Y	KEBX1A	Accel., Biax	I.C. Sensor	3031-200	G
65	A-Post Middle	Y	KEBX1B	Accel., Biax	I.C. Sensor	3031-500	G
66	Front Seat Track	Y	KEIC008Y	Single	I.C. Sensor	3031-500	G
67	Rear Seat Structure	Y	N/A	N/A	N/A	N/A	N/A
68	Vehicle CG	X	KETX2A	Accel., Triax	I.C. Sensor	3031-200	G
69	Vehicle CG	Y	KETX2B	Accel., Triax	I.C. Sensor	3031-200	G
70	Vehicle CG	Z	KETX2C	Accel., Triax	I.C. Sensor	3031-200	G

55/28 km/h Side Impact NCAP
Instrumentation Data Channel Assignments
Moving Deformable Barrier
11/12/02
2003 Ford Crown Victoria 4 Door Sedan

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
71	MDB CG	X	ICST001X	Accel., Triax	I.C. Sensor	3031-500	G
72	MDB CG	Y	ICST001Y	Accel., Triax	I.C. Sensor	3031-500	G
73	MDB CG	Z	ICST001Z	Accel., Triax	I.C. Sensor	3031-500	G
74	MDB Rear Centerline	X	ICST002X	Accel., Triax	I.C. Sensor	3031-50	G
75	MDB Rear Centerline	Y	ICST002Y	Accel., Triax	I.C. Sensor	3031-50	G
76	Right Bumper Contact	N/A	T0	Contact Switch	Tapeswitch	40 oz. Grey	%

55/28 km/h Side Impact NCAP
Instrumentation Data Channel Assignments
Nine Accelerometer Head Array Channels
11/12/02
2003 Ford Crown Victoria 4 Door Sedan

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
77	Driver Head CG	X	KEAC039	Accel., 1/2 bridge	Endevco	7264-2000	G
78	Driver Head CG	Y	KEAC038	Accel., 1/2 bridge	Endevco	7264-2000	G
79	Driver Head CG	Z	KEAC027	Accel., 1/2 bridge	Endevco	7264-2000	G
80	Driver Y-arm	Z	GPAC016	Accel., 1/2 bridge	Endevco	7264-2000	G
81	Driver Y-arm	X	GPAC015	Accel., 1/2 bridge	Endevco	7264-2000	G
82	Driver X-arm	Z	GPAC004	Accel., 1/2 bridge	Endevco	7264-2000	G
83	Driver X-arm	Y	GPAC018	Accel., 1/2 bridge	Endevco	7264-2000	G
84	Driver Z-arm	X	GPAC006	Accel., 1/2 bridge	Endevco	7264-2000	G
85	Driver Z-arm	Y	GPAC007	Accel., 1/2 bridge	Endevco	7264-2000	G
86	Passenger Head CG	X	GPAC027	Accel., 1/2 bridge	Endevco	7264-2000	G
87	Passenger Head CG	Y	GPAC002	Accel., 1/2 bridge	Endevco	7264-2000	G
88	Passenger Head CG	Z	GPAC003	Accel., 1/2 bridge	Endevco	7264-2000	G
89	Passenger Y-arm	Z	GPAC012	Accel., 1/2 bridge	Endevco	7264-2000	G
90	Passenger Y-arm	X	GPAC001	Accel., 1/2 bridge	Endevco	7264-2000	G
91	Passenger X-arm	Z	GPAC036	Accel., 1/2 bridge	Endevco	7264-2000	G
92	Passenger X-arm	Y	GPAC014	Accel., 1/2 bridge	Endevco	7264-2000	G
93	Passenger Z-arm	X	GPAC030	Accel., 1/2 bridge	Endevco	7264-2000	G
94	Passenger Z-arm	Y	GPAC037	Accel., 1/2 bridge	Endevco	7264-2000	G

* Duplicate of Head CG Primary Channels