



test report

General Motors Corporation
General Motors Proving Ground
Milford, Michigan 48042

TITLE

MOVING BARRIER TO PARKED
VEHICLE - RIGHT SIDE IMPACT

SAFETY RESEARCH & DEVELOPMENT LAB
Current Product Engineering

REPORT NO. PG 47790 DATE Feb. 06, 1985

PASSENGER CAR

TEST NO. C-6109

REPORT NO. PG
SRDL TEST NO. C-6109
TEST DATE Dec. 10, 1984

TEST REPORT

TYPE IMPACT

☐ REAR MOVING BARRIER

☒ SIDE MOVING BARRIER RIGHT SIDE ☐ LEFT SIDE ☐

☐ BARRIER TYPE: CONTOURED ☐ FLAT FACE ☐ OTHER NHTSA Crushable Face Moving Barrier

VEHICLE DESCRIPTION

MAKE	YEAR	BODY TYPE	BODY STYLE	DIVISION CAR NO	BUILD STATUS
Olds.	1983	2-Door Coupe	3JC77	CC453	*Mod. Production
ENGINE	CONFIGURATION	L4	DISPLACEMENT	1.8 L	PREVIOUS IMPACTS
	FUEL	Gasoline			None
	FUEL INDUCTION	Electronic Fuel Inject.			
FUEL TANK	USABLE CAPACITY	ND L	UNUSABLE CAPACITY	NDL	TRAILER HITCH YES ☐ NO ☒ TYPE
					SPARE TIRE TYPE
					Removed for the test.
					AC YES ☒ NO ☐
SPECIAL FEATURES *The driver door, driver seat, rear seat, steering wheel, spare tire, battery, air pump, distributor, alternator, heater blower and fan were removed.					
The passenger door contained a 50% polystyrene, 50% polyethylene prototype inner panel.					

TEST CONDITIONS

MOVING BARRIER			
VELOCITY AT IMPACT	40.8 km/h	LOCATION	VEHICLE ☐ DRIVER SRP ☐ OTHER ☒
TEST MASS	1349 kg	AT IMPACT	Point 'C' (303 mm rear of fiducial)
NHTSA-developed crushable moving barrier with an energy-absorbing, Hexcel face.			

VEHICLE

TEST MASS	FRONT	842 kg
LESS DUMMIES	REAR	490 kg
INCLUDING DUMMIES	TOTAL	1332 kg
FUEL TANK	TEST VOLUME CONTENTS	Empty
	-- % OF USABLE CAPACITY	-- L
FUEL LINES & CARBURETOR FILLED	YES ☐ NO ☒	
VEHICLE SERVICE BRAKES ON AT IMPACT	YES ☐ NO ☒	
SEAT POSITION	Mid (Manual seat adjuster).	
VEHICLE ATTITUDE		
J = DRIVER SIDE	235 mm	PASSENGER SIDE 236 mm
K = DRIVER SIDE	211 mm	PASSENGER SIDE 216 mm
COMMENTS:		

DUMMIES

RIGHT FRONT	MAKE	GM50S?	NO	32
	TYPE	50th Mile Male	MASS	75 kg
	RESTRAINT	Lap/Shoulder		
	MAKE	NO		
	TYPE	MASS	kg	
	RESTRAINT			
The dummy's right arm and shoulder were removed for the test.				
TEST CONFIGURATION:				

PHOTOGRAPHIC COVERAGE

RECORDED DATA --- SEE PAGE 2

OFFBOARD	OVER ALL	☒	FUEL TANK	
	REAR HALF		OVERHEAD	☒
	PIT	☒	DOCUMENTARY	☒
	PASS. SIDE	☒		
ONBOARD	R. FRT. DOOR	☒	R. FRT. PASS.	☒

FLOOR PAN AVG ACCEL	LONG ☐ LAT ☐ TRIAX ☐
FRAME AVG ACCEL	LONG ☐ LAT ☐ TRIAX ☐
ROCKER PANEL AVG ACCEL	LONG ☐ LAT ☐ TRIAX ☐

NA - NOT APPLICABLE ND - NOT DETERMINED

(MOVING BARRIER TO PARKED
VEHICLE - RIGHT SIDE IMPACT)

PAGE NO. 2
SRDL TEST NO. C-6109
TEST DATE Dec. 10, 1984

RECORDED DATA

STRIKING VEHICLE:

Front Left and Right Triaxial Acceleration

Mid Left and Right Triaxial Acceleration

STRUCK VEHICLE:

Driver Side Door Triaxial Acceleration at Point A' (see Page 3)

Right Front Door Triaxial Acceleration at Points A, B, C, and D (see Page 3)

Passenger Side Hinge Pillar Triaxial Acceleration

Passenger Side Trunk Triaxial Acceleration

Driver Side Floorpan Triaxial Acceleration

B-Pillar Lateral Displacement at Beltline

Passenger Side Hinge Pillar Sensor Contact

DUMMY DATA - RIGHT FRONT:

Head Acceleration

Chest Acceleration

Pelvic Acceleration

Lower Spine Acceleration

Upper Rib Lateral Acceleration

Lower Rib Lateral Acceleration

Upper Rib Lateral Displacement

Lower Rib Lateral Displacement

Shoulder-to-Door Contact

Hip-to-Door Contact

STRUCK VEHICLE
TRANSDUCER LOCATIONS

<u>POINT</u>	<u>Location of Point Measured</u>	<u>Coordinates Relative to Nearest Fiducial Point (mm)</u>	<u>Ref. Photo Fig. No.</u>
A	Right front door - inner panel, inner surface.	450 rwd, 504 up	<u>152-153</u>
A'	Left front door opening - mounted on rigid fixture.	450 rwd, 504 up	-----
B	Right front door - inner panel, inner surface.	376 rwd, 349 up	<u>152-153</u>
C	Right front door - inner panel, inner surface.	303 rwd, 194 up	<u>152-153</u>
C'	Right side door - outer panel, inner surface	376 rwd, 349 up	<u>151</u>
D	Right front door - inner panel, inner surface.	102 rwd, 169 up	<u>152-153</u>
	Center 'B'-pillar - inner panel, right side at beltline.	ND	
	Floorpan inner surface - driver side.	ND	
	Trunk inner surface - passenger side.	ND	

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POST-TEST OBSERVATIONS

	YES	NO	PARTIAL	OTHER	FIG.	NOTE
D O O R S	ALL EXTERIOR DOORS REMAINED CLOSED					
	ALL EXTERIOR DOORS REMAINED LATCHED					
	ALL EXTERIOR DOOR HINGES REMAINED INTACT					
	LATCH OPERABLE		DISTANCE DOOR MAY BE OPENED (1)			
	YES	NO	OTHER			
	DRIVER FRONT					
	PASSENGER FRONT					
B O D Y	BODY TO-FRAME OR CRADLE MOUNTS REMAINED ATTACHED					
	SPARE TIRE REMAINED IN PLACE					
	TRUNK LID OR REAR HATCH REMAINED INTACT					
	TRUNK LID OR REAR HATCH REMAINED CLOSED					
D R I V E	REAR AXLE INTACT					
	REAR AXLE DEFORMED					
	DRIVESHAFT INTACT					
	DRIVESHAFT DEFORMED					
S Y S T E M	FUEL TANK RETAINED					
	FILLER TUBE INTACT					
	SYSTEM INTEGRITY (see supplemental report for additional information)					
	FUEL TANK WAS EMPTY FOR TEST.					

- NOTE: 1. Removed prior to test.
 2. The vehicle had no door handles.
 3. 2-door vehicle.
 4. Front-wheel-drive.

VEHICLE DATA

REAR IMPACT					
VEHICLE	DRIVER SIDE	mm	FUEL TANK	DRIVER SIDE	mm
RESIDUAL CRUSH	PASSENGER SIDE	mm	RESIDUAL CRUSH	PASSENGER SIDE	mm
VEHICLE	DRIVER SIDE	mm	FUEL TANK	DRIVER SIDE	mm
DYNAMIC CRUSH	PASSENGER SIDE	mm	RESIDUAL DISP	PASSENGER SIDE	mm
SIDE IMPACT					
VEHICLE RESIDUAL CRUSH			FUEL TANK LATERAL RESIDUAL CRUSH		
FRONT	245	mm	FRONT	NO	mm
MID	327	mm			
REAR	306	mm			
			FUEL TANK LATERAL RESIDUAL DISPLACEMENT		
FRONT	NO	mm	REAR	NO	mm

NOTE: (A) RESIDUAL CRUSH MEASUREMENTS ± 25 mm, OTHER RESIDUAL MEASUREMENTS ± 5 mm

(B) GENERALIZED TOLERANCE CANNOT BE SPECIFIED FOR DYNAMIC MEASUREMENTS BECAUSE OF ACCURACY VARIATIONS DUE TO DIFFERENCES IN ANALYSIS TECHNIQUES.

A TOLERANCE FOR SPECIFIC TEST DATA CAN BE FURNISHED ON REQUEST.

NA NOT APPLICABLE NO NOT DETERMINED

STRUCK VEHICLE

<u>Residual Lateral Displacement</u>	<u>Displacement</u>
(Door Outer Surface)	
Right side door at occupant shoulder (Point A)	197 mm
Right side door at occupant mid torso (Point B)	268 mm
Right side door at occupant hip (Point C)	309 mm
Right side door at occupant foot (Point D)	300 mm
(Door Inner Surface)	
Right side door at occupant shoulder (Point A)	250 mm
Right side door at occupant mid torso (Point B)	245 mm
Right side door at occupant hip (Point C)	225 mm
Right side door at occupant foot (Point D)	225 mm

DUMMY LOCATION IN VEHICLE

The following values reflect the dummy location in the test vehicle in corporate body coordinates. The location is determined relative to the vehicle front fiducial mark (front outboard seat anchor stud).

		<u>BODY COORDINATES (mm)</u>	
		<u>LONGITUDINAL</u>	<u>VERTICAL</u>
<u>DRIVER</u>	-- None		
	HEAD	-----	-----
	HIP	-----	-----
	KNEE	-----	-----
<u>RIGHT FRT</u>			
<u>PASSENGER</u>			
	HEAD	<u>3774</u>	<u>565</u>
	HIP	<u>3034</u>	<u>433</u>
	KNEE	<u>2635</u>	<u>511</u>

Dummy Lateral Location: 0 mm relative to seat C/L.

Comments: _____

INSTRUMENTATION AND FILM ANALYSIS DATA INDEX

(STRUCK VEHICLE)

FIGURE
NUMBER

RIGHT FRONT DOOR AT POINTS A, B, C, D AND C':

1-15 ACCELERATIONS
16-30 COMPUTED VELOCITY (1ST INTEGRAL OF ACCELERATION)
31-45 COMPUTED DISPLACEMENT (2ND INTEGRAL OF ACCELERATION)

DRIVER SIDE FLOORPAN:

43-48 ACCELERATIONS
49-51 COMPUTED VELOCITY (1ST INTEGRAL OF ACCELERATION)
52-54 COMPUTED DISPLACEMENT (2ND INTEGRAL OF ACCELERATION)

RIGHT SIDE TRUNK:

55-57 ACCELERATIONS
58-60 COMPUTED VELOCITY (1ST INTEGRAL OF ACCELERATION)
61-63 COMPUTED DISPLACEMENT (2ND INTEGRAL OF ACCELERATION)

DRIVER SIDE DOOR AT POINT A':

64 ACCELERATION
65 COMPUTED VELOCITY (1ST INTEGRAL OF ACCELERATION)
66 COMPUTED DISPLACEMENT (2ND INTEGRAL OF ACCELERATION)

RIGHT SIDE B-PILLAR AT BELTLINE:

67 DISPLACEMENT
68 COMPUTED VELOCITY (1ST DIFFERENTIAL OF DISPLACEMENT)

RIGHT FRONT DUMMY:

69 HEAD ACCELERATION
70 CHEST ACCELERATION
71 PELVIC ACCELERATION
72-74 LOWER SPINE ACCELERATION
75-76 UPPER AND LOWER RIB ACCELERATION
77-78 UPPER AND LOWER RIB DISPLACEMENT
79 CONTACTS

INSTRUMENTATION AND FILM ANALYSIS DATA INDEX

(STRIKING VEHICLE)

FIGURE
NUMBER

BARRIER FRONT:

80-88 ACCELERATIONS
89-97 COMPUTED VELOCITY (1ST INTEGRAL OF ACCELERATION)
98-106 COMPUTED DISPLACEMENT (2ND INTEGRAL OF ACCELERATION)

BARRIER MID:

107-115 ACCELERATIONS
116-124 COMPUTED VELOCITY (1ST INTEGRAL OF ACCELERATION)
125-133 COMPUTED DISPLACEMENT (2ND INTEGRAL OF ACCELERATION)

FILM ANALYSIS:

134 STRUCK VEHICLE VELOCITY
135 STRIKING VEHICLE VELOCITY (NHTSA BARRIER)
136 STRUCK VEHICLE ANGLE RELATIVE TO GROUND
137 STRIKING VEHICLE ANGLE RELATIVE TO GROUND (NHTSA BARRIER)
138 NHTSA BARRIER ANGLE RELATIVE TO STRUCK VEHICLE DISPLACEMENT
139 NHTSA BARRIER RELATIVE TO STRUCK VEHICLE VELOCITY
140 NHTSA BARRIER ANGLE RELATIVE TO STRUCK VEHICLE ANGLE

PHOTOGRAPH INDEX

(STRIKING VEHICLE)

FIGURE
NUMBER

PRE-TEST PHOTOGRAPHS:

141-144 OVERALL OF TEST CONFIGURATION
145-146 CLOSEUP OF IMPACT CONFIGURATION
147-148 OVERALL OF STRUCK VEHICLE - PASSENGER SIDE
149-150 DUMMY AND INTERIOR - STRUCK VEHICLE
151-153 RIGHT SIDE DOOR ACCELEROMETERS AT POINTS C', A, B, C, & D - STRUCK VEHICLE
154 CLOSEUP OF CAMERA MOUNTING LOCATION IN TRUNK - STRUCK VEHICLE
155-156 OVERALL OF IMPACT AREA UNDERBODY - STRUCK VEHICLE
157-158 NHTSA BARRIER - STRIKING VEHICLE

POST-TEST PHOTOGRAPHS:

159-161 OVERALL OF STRUCK AND STRIKING VEHICLES
162-163 CLOSEUP OF STRUCK AND STRIKING VEHICLES AT IMPACT AREA
164-165 OVERALL OF STRUCK VEHICLE - PASSENGER SIDE
166-168 CLOSEUP OF DEFORMATION AT IMPACT AREA - STRUCK VEHICLE
169-171 DUMMY AND INTERIOR - STRUCK VEHICLE
172-173 INTERIOR WITHOUT DUMMY OR SEAT - STRUCK VEHICLE
174-175 INTERIOR WITHOUT DUMMY, SEAT, OR DOOR TRIM - STRUCK VEHICLE
176-178 CLOSEUP OF HEXCEL FACE - STRIKING VEHICLE

CG1098 RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE

40.8KM/H FIGURE 1

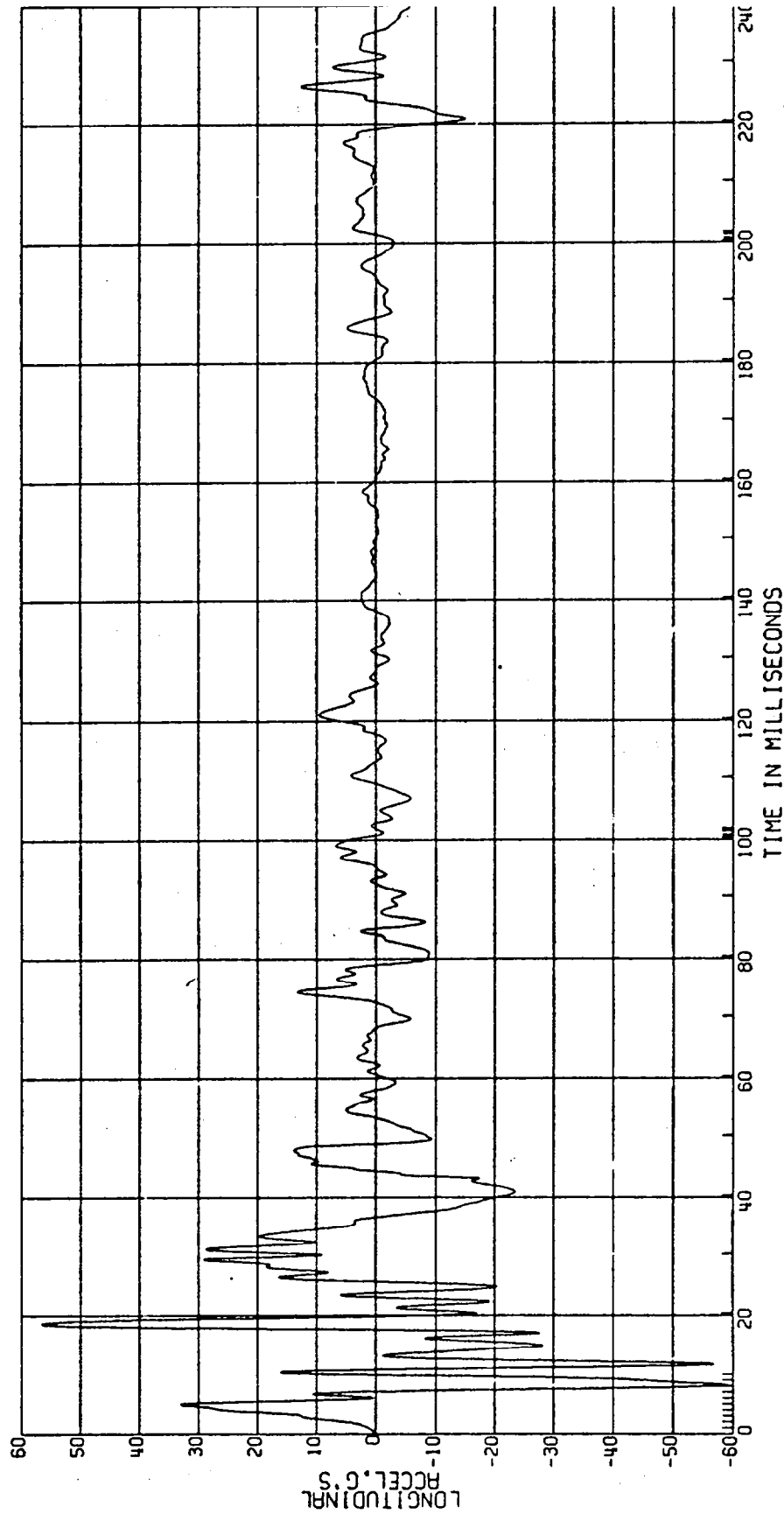
3865-840

F.B. CC453 3JC77 STRUCK VEH

PASS-SIDE RT.FRT.DOOR - POINT A ACCEL.

TEST DATE:12-10-84

A-D DATA SAE CLASS 60



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18 PROCESSED 11 DE 84 19:14

CG1098 RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE

40.8KM/H FIGURE 2

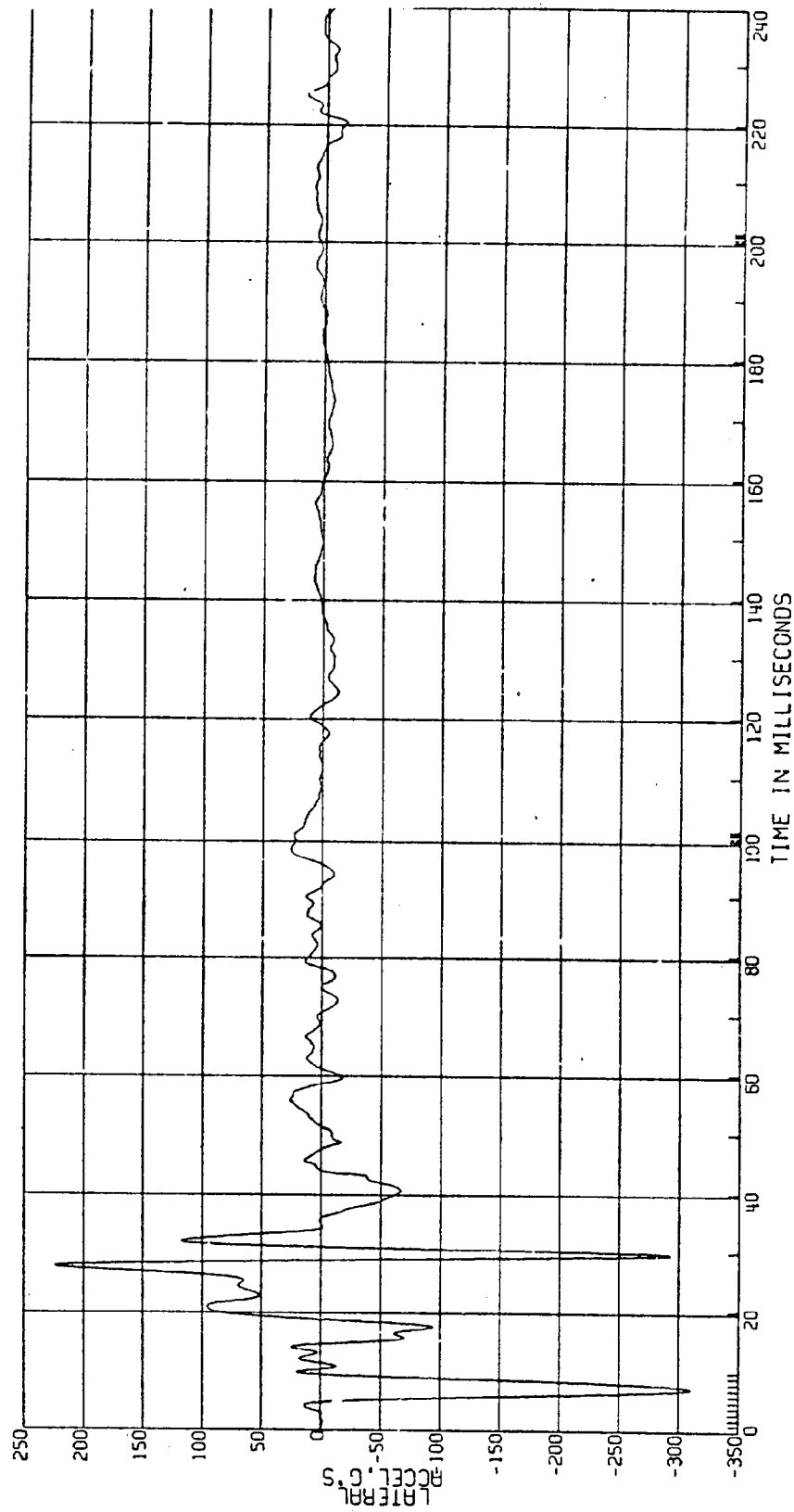
3865-840

F.B. CC453 3JC77 STRUCK VEH

PASS-SIDE RT.FRT.DOOR - POINT A ACCEL.

TEST DATE: 12-10-81

A-D DATA SAE CLASS 60

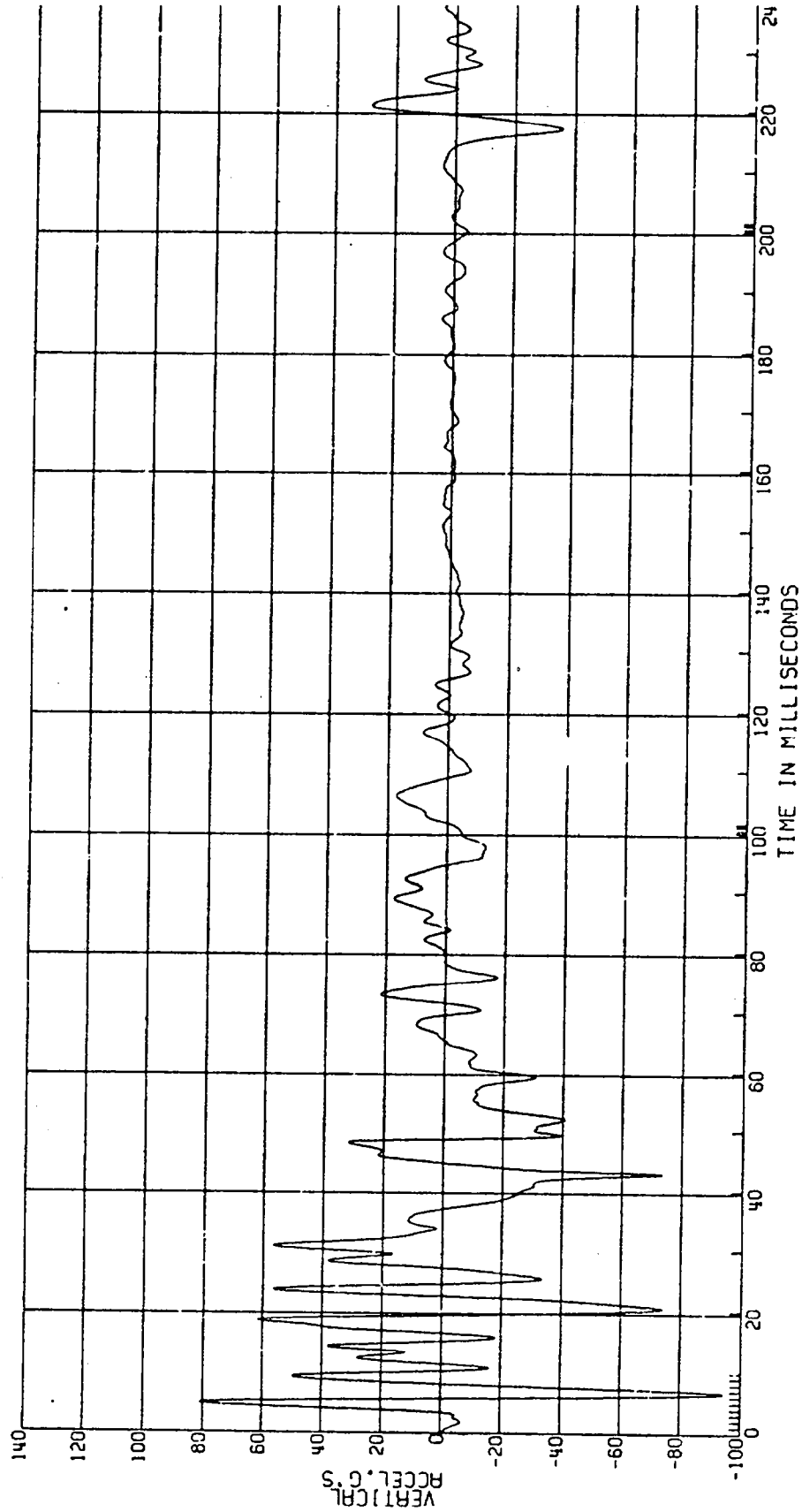


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21 PROCESSED 11 DE 84 19:14

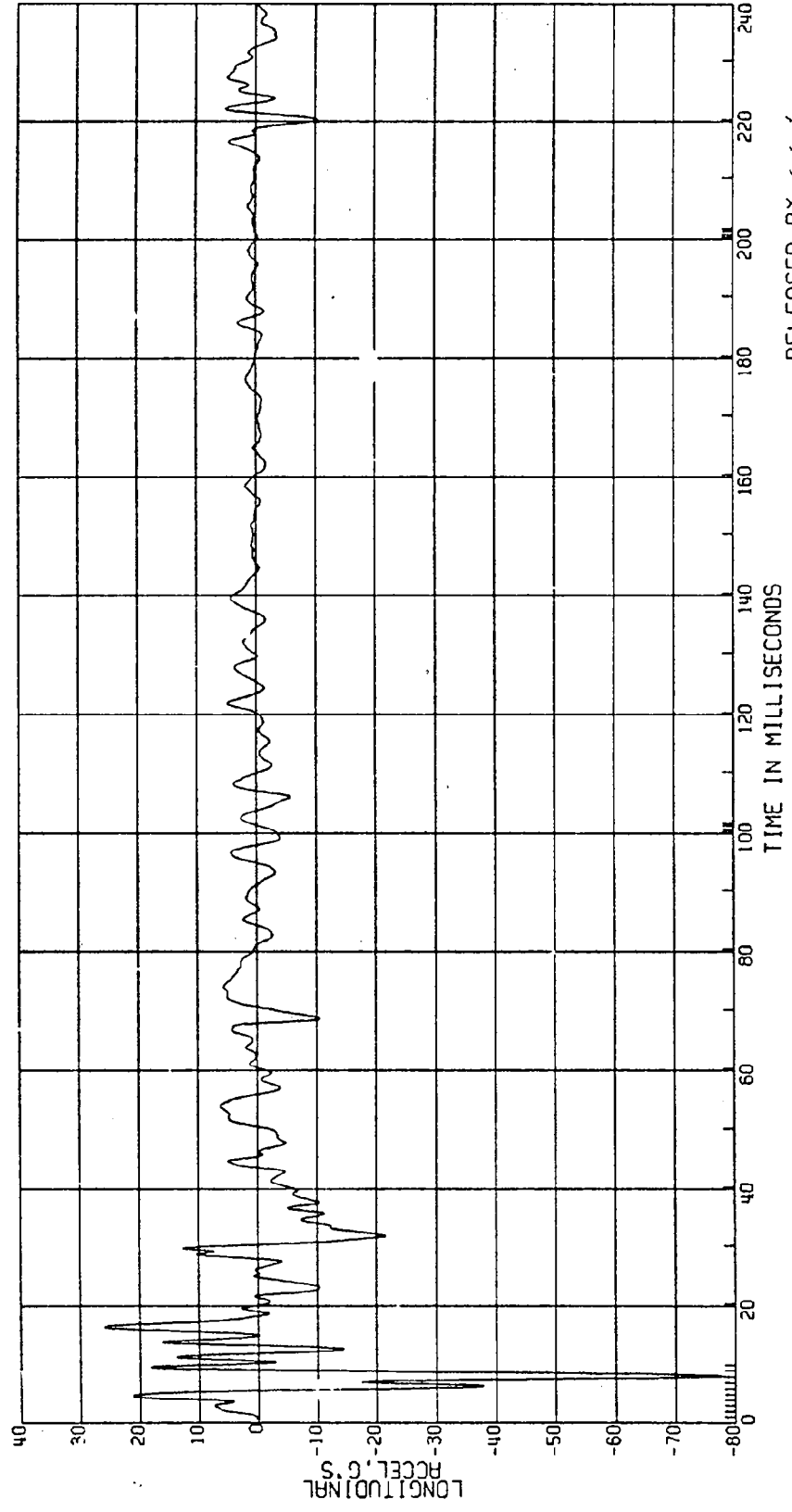
LOIUYB HIGH SIDE IMPACT
3865-840
F.B. CC453 3JC77 STRUCK VEH
A-D DATA SAE CLASS 60

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 3
PASS-SIDE RT.FRT.DOOR - POINT A ACCEL.
TEST DATE:12-10-8



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24 PROCESSED 11 DE 84 19:14

CG1098 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 4
3865-840
F.B. CC453 3JC77 STRUCK VEH PASS-SIDE RT.FRT.DOOR - POINT B ACCEL. TEST DATE:12-10-84
A-D DATA SAE CLASS 60



CG1098 RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE

40.8KM/H FIGURE 5

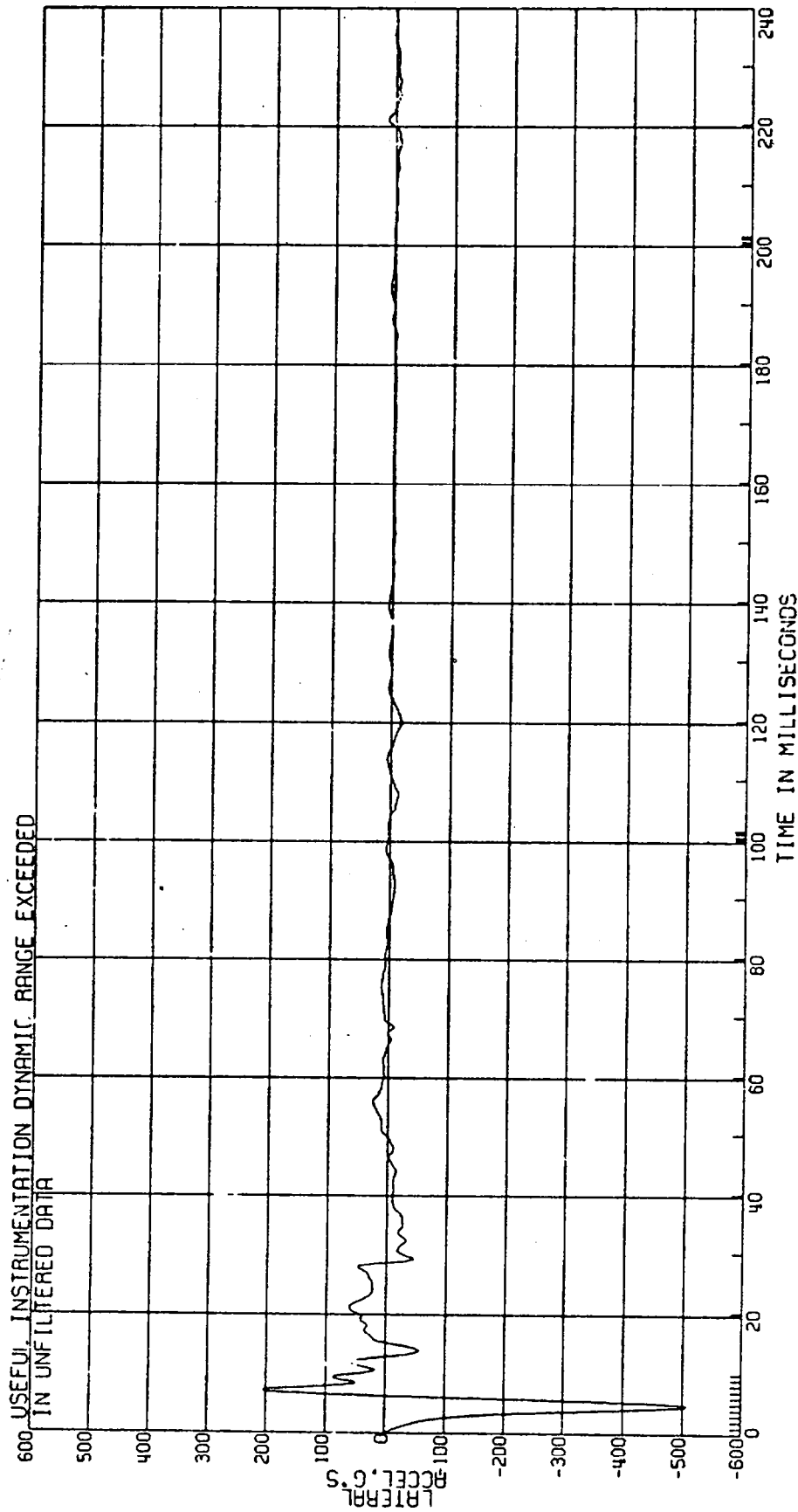
3865-840

F.B. CC453 3JC77 STRUCK VEH

PASS-SIDE RT.FRT.DOOR - POINT B ACCEL.

TEST DATE: 12-10-84

A-D DATA SAE CLASS 60



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CG109B RIGHT SIDE IMPACT

3865-840

F.B. CC453 3JC77 STRUCK VEH

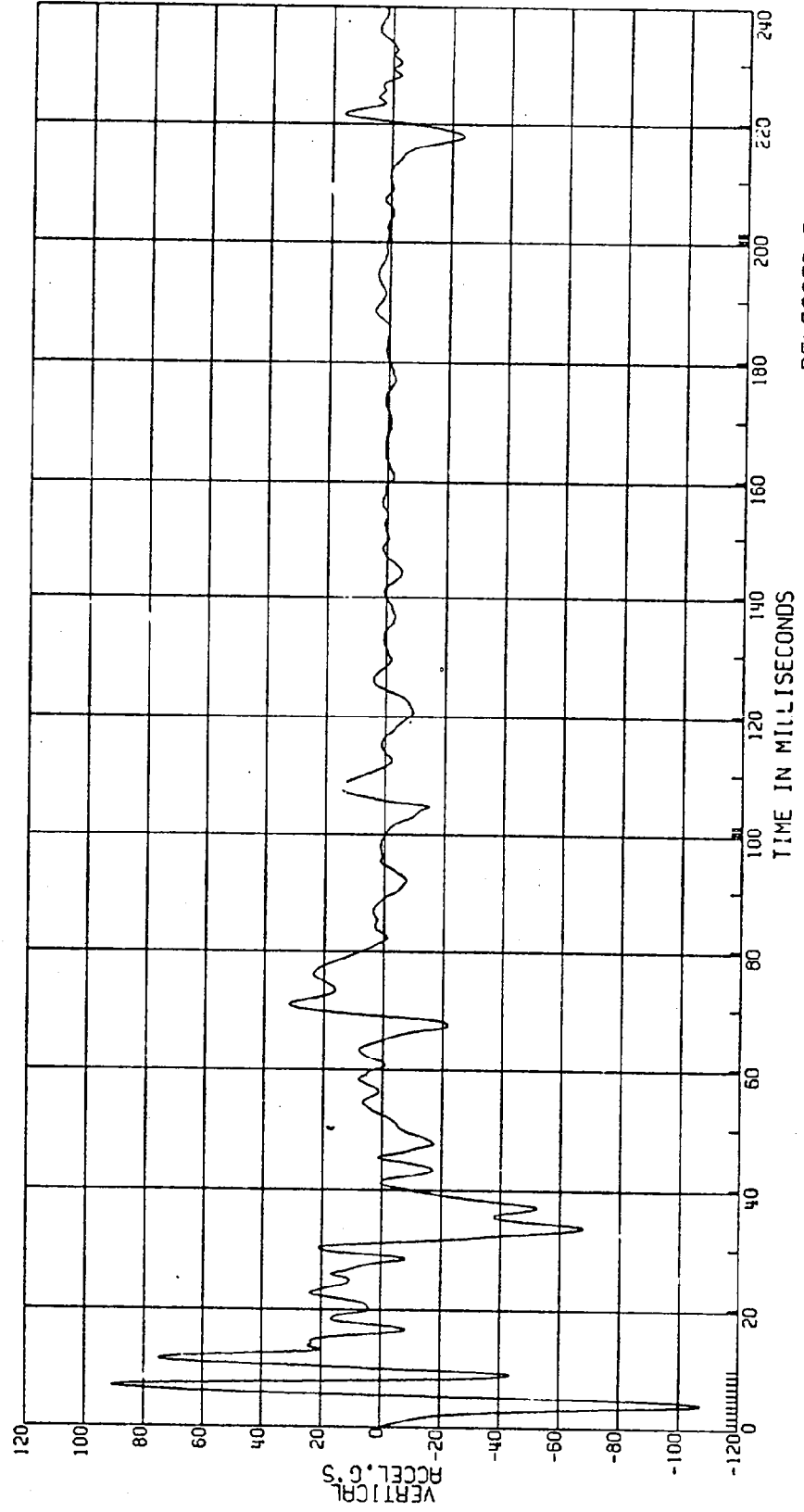
A-D DATA SAE CLASS 60

MOVING BARRIER TO PARKED VEHICLE

40.8KM/H FIGURE 6

PASS-SIDE RT.FRT.DOOR - POINT B ACCEL.

TEST DATE:12-10-84



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33 PROCESSED 11 DE 84 19:16

CG109B RIGHT SIDE IMPACT

3865-840

F.B. CC453 3JC77 STRUCK VEH

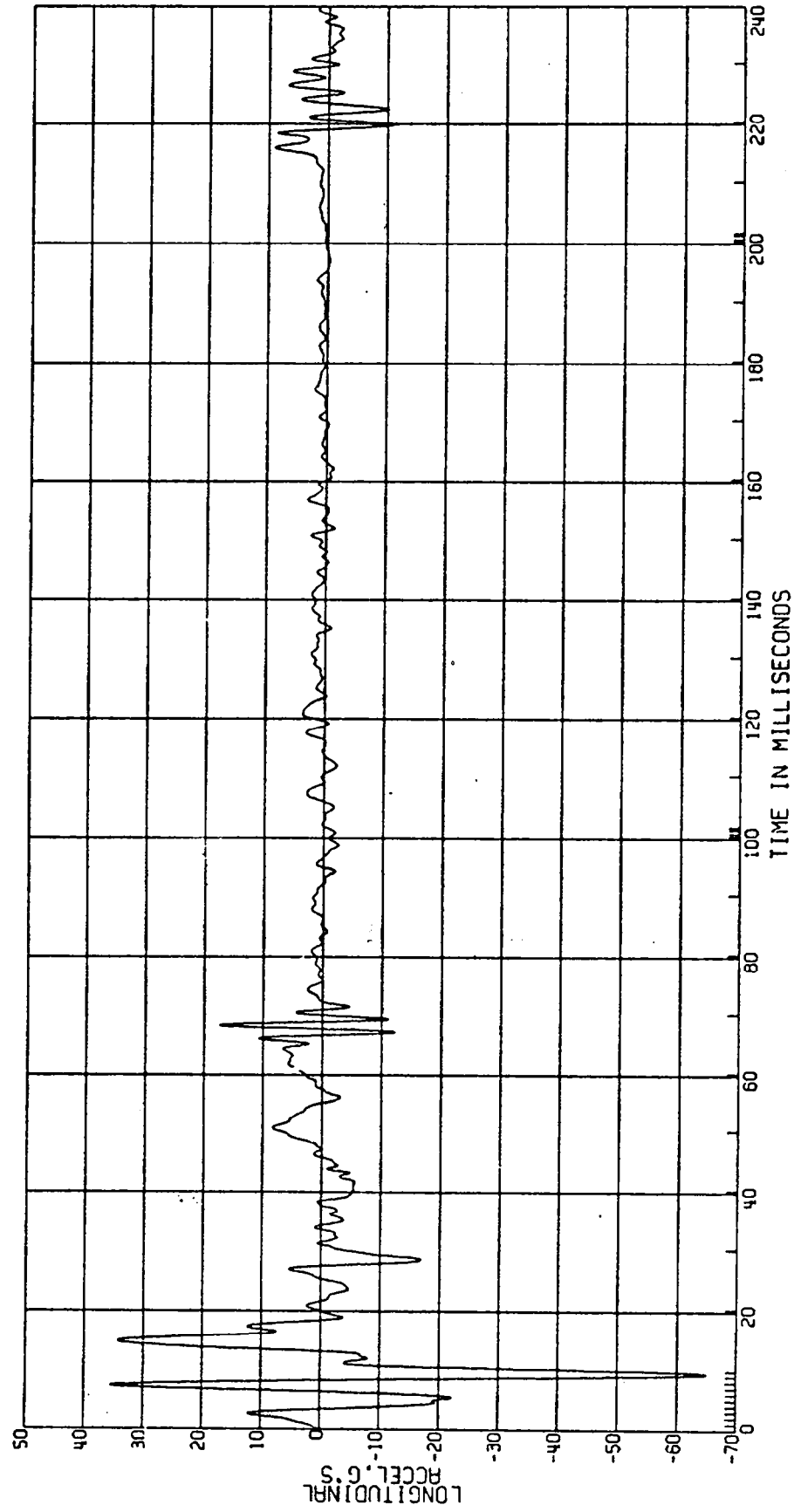
A-D DATA SAE CLASS 60

MOVING BARRIER TO PARKED VEHICLE

40.8KM/H FIGURE 7

PASS-SIDE RT.FRT.DOOR - POINT C ACCEL.

TEST DATE:12-10-84



RELEASED BY: Q & 1

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CG109B RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE

40.8 KM/H FIGURE 8

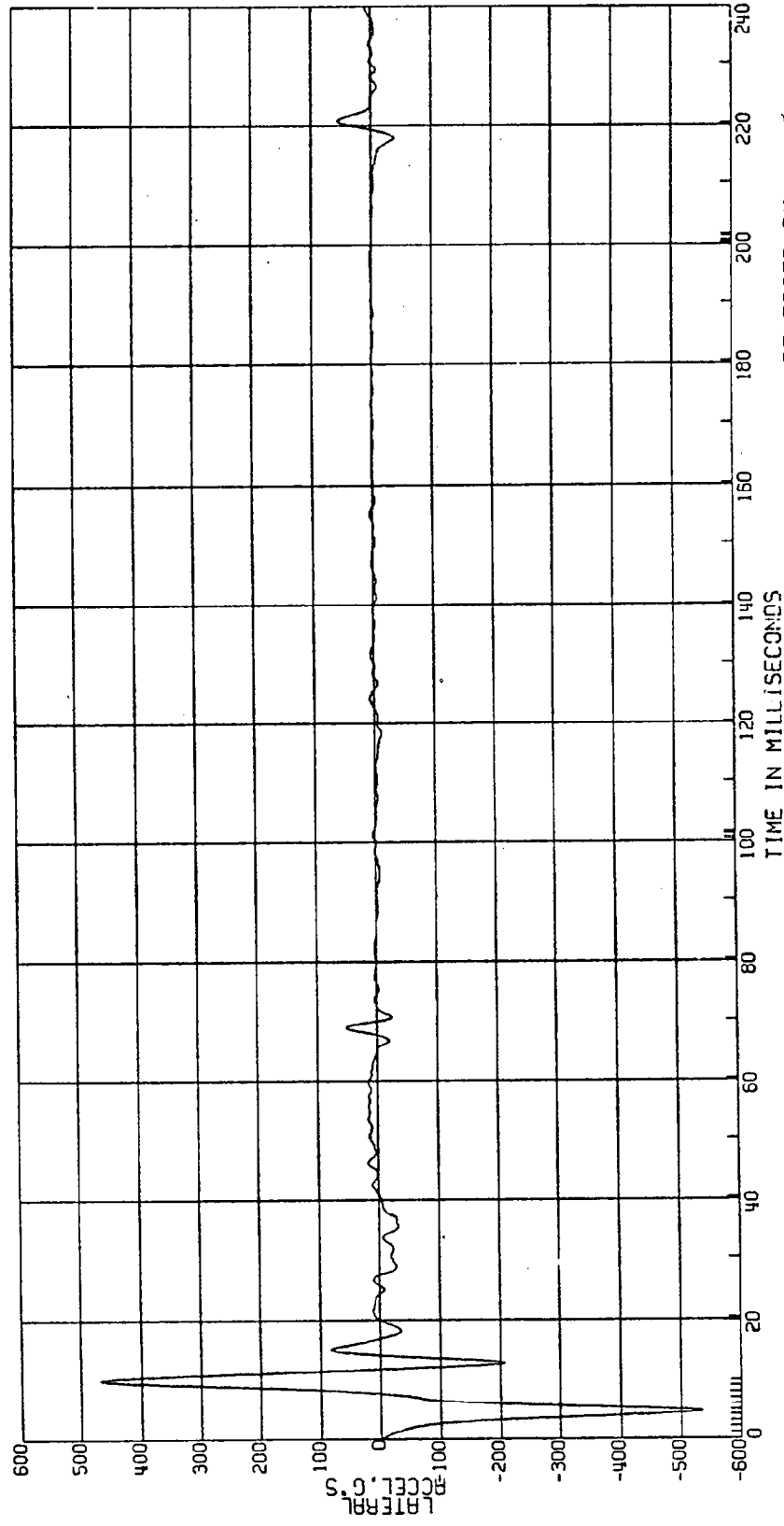
3865-840

F.B. CC453 3JC77 STRUCK VEH

PASS-SIDE RT.FRT.DOOR - POINT C ACCEL.

TEST DATE: 12-10-84

A-D DATA SAE CLASS 60



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CG109B RIGHT SIDE IMPACT

3865-840

F.B. CC453 3JC77 STRUCK VEH

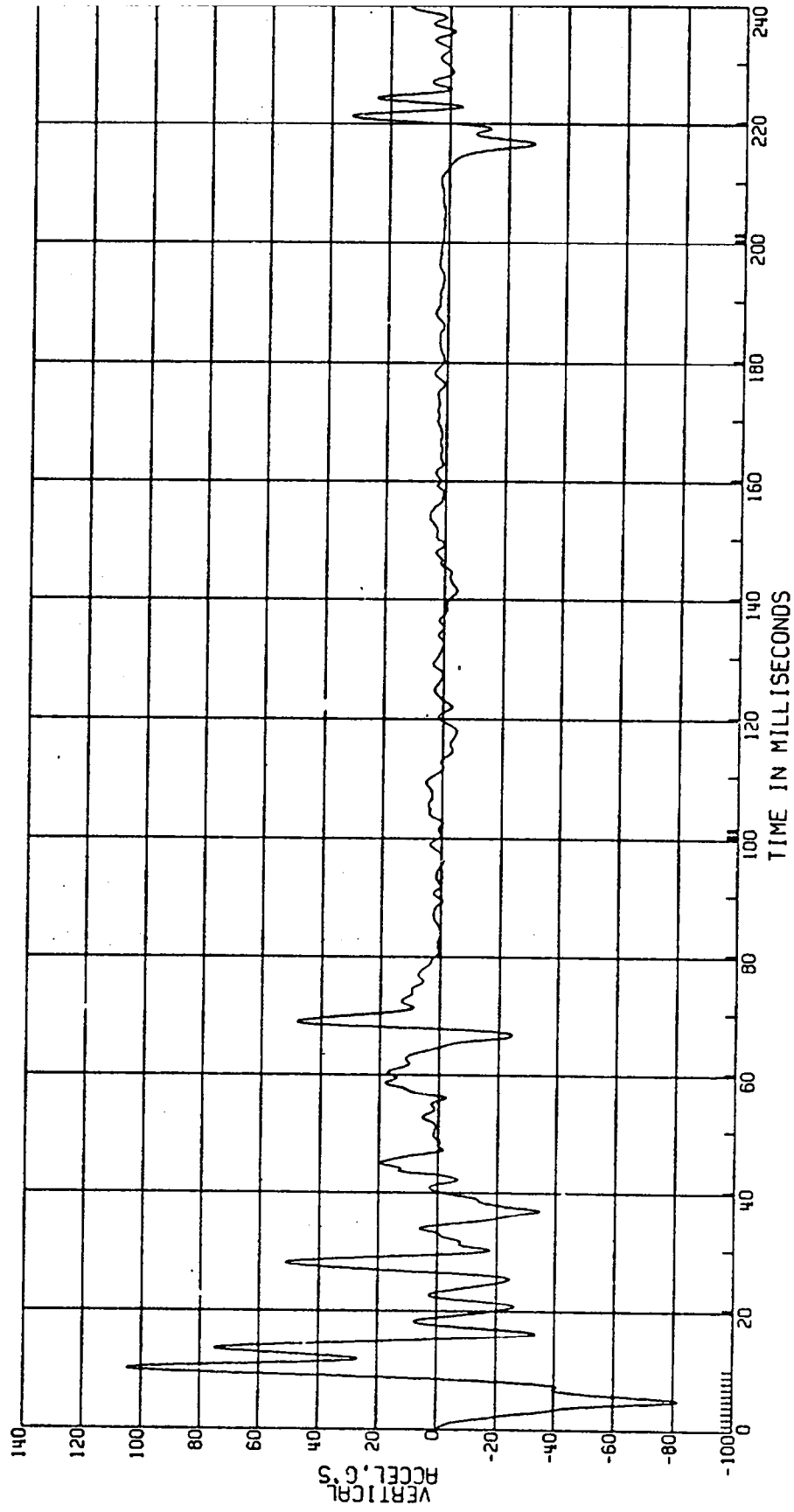
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MOVING BARRIER TO PARKED VEHICLE

40.8KM/H FIGURE 9

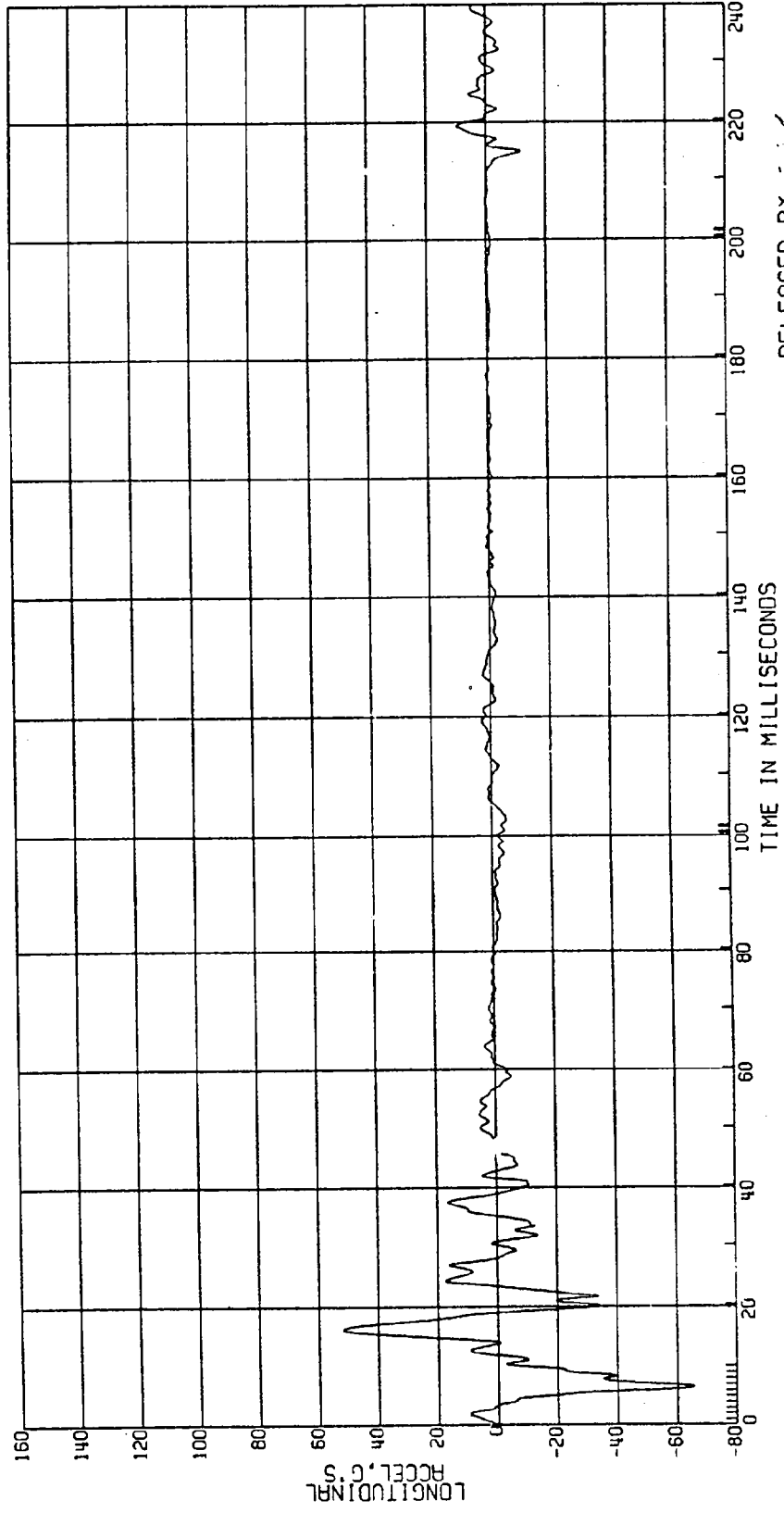
PASS-SIDE RT.FRT.DOOR - POINT C ACCEL.

TEST DATE:12-10-84



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42 PROCESSED 11 DE 84 19:18

CG109B RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 40
3865-840
F.B. CC453 3JC77 STRUCK VEH PASS-SIDE RT.FRT.DOOR - POINT D ACCEL. TEST DATE:12-10-84
A-D DATA SAE CLASS 60



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45 PROCESSED 11 DE 84 19:19

CG1098 RIGHT SIDE IMPACT

3865-840

F.B. CC453 3JC77 STRUCK VEH

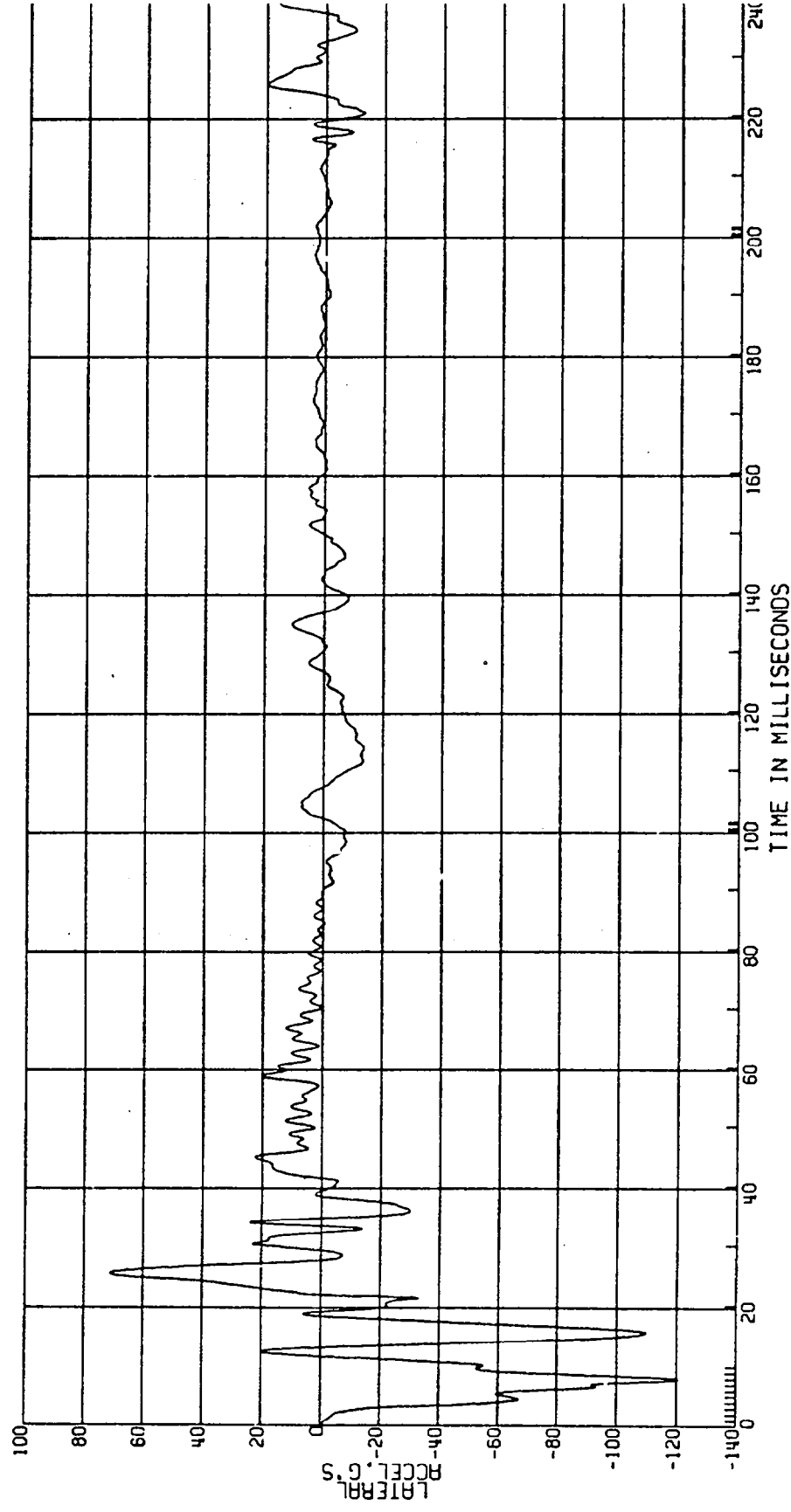
A-D DATA SAE CLASS 60

MOVING BARRIER TO PARKED VEHICLE

40.8KM/H FIGURE 1.1

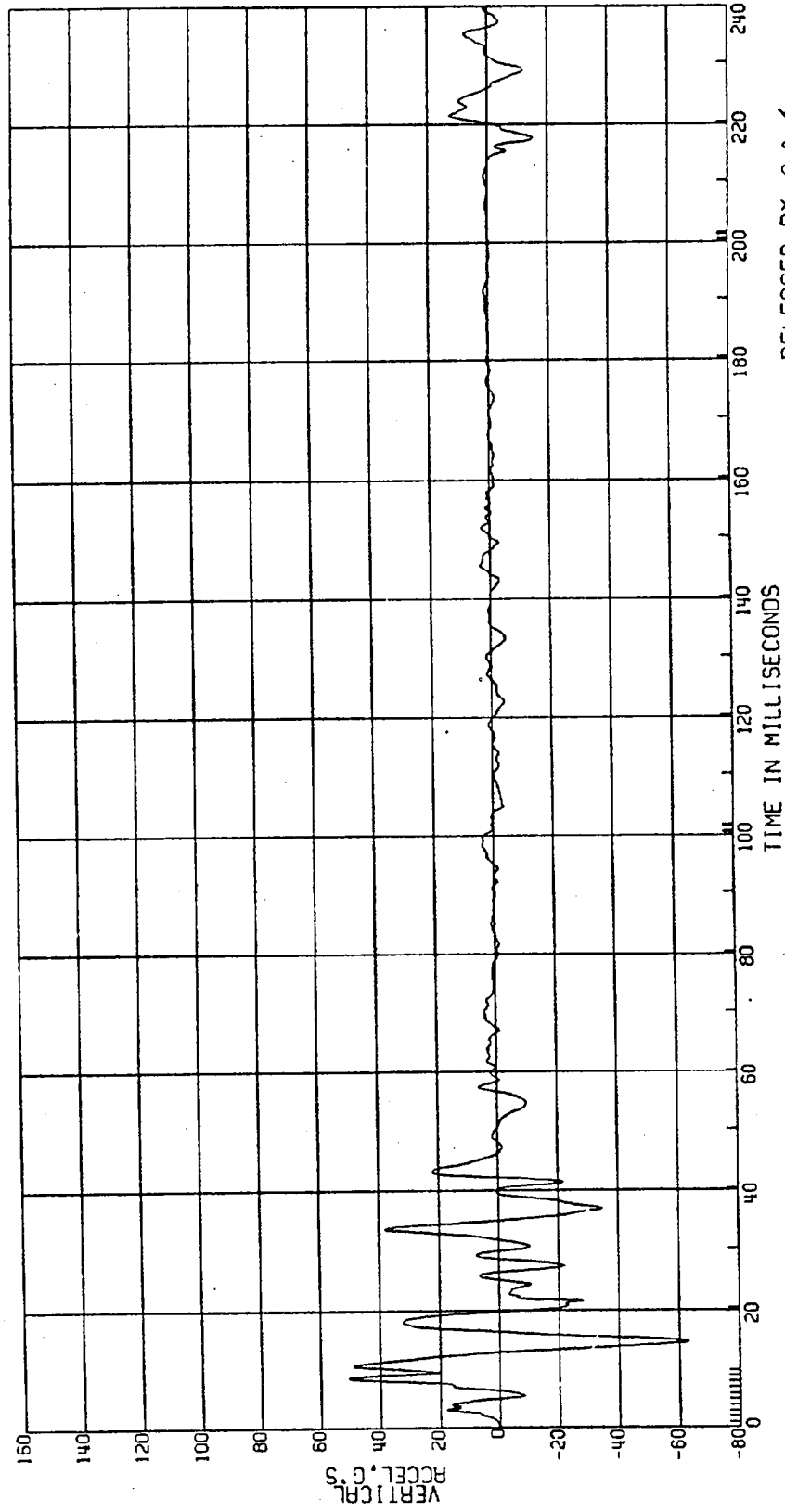
PASS-SIDE RT.FRT.DOOR - POINT D ACCEL.

TEST DATE:12-10-84



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48 PROCESSED 11 DE 84 19:20

CG109B RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 12
3865-840
F.B. CC453 3JC77 STRUCK VEH
A-D DATA SAE CLASS 60 PASS-SIDE RT.FRT.DOOR - POINT D ACCEL. TEST DATE:12-10-84



RELEASED BY: 0-2
S1 PROCESSED 11 DE 84 19:20

C61098 RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE

40.8KM/H FIGURE 13

3865-840

F.B. CC453 3JC77 STRUCK VEH

PASS-SIDE RT.FRT.DOOR - POINT C' ACCEL.

TEST DATE: 12-10-81

A-D DATA SAE CLASS 60

80 USEFUL INSTRUMENTATION DYNAMIC RANGE EXCEEDED
IN UNFILTERED DATA

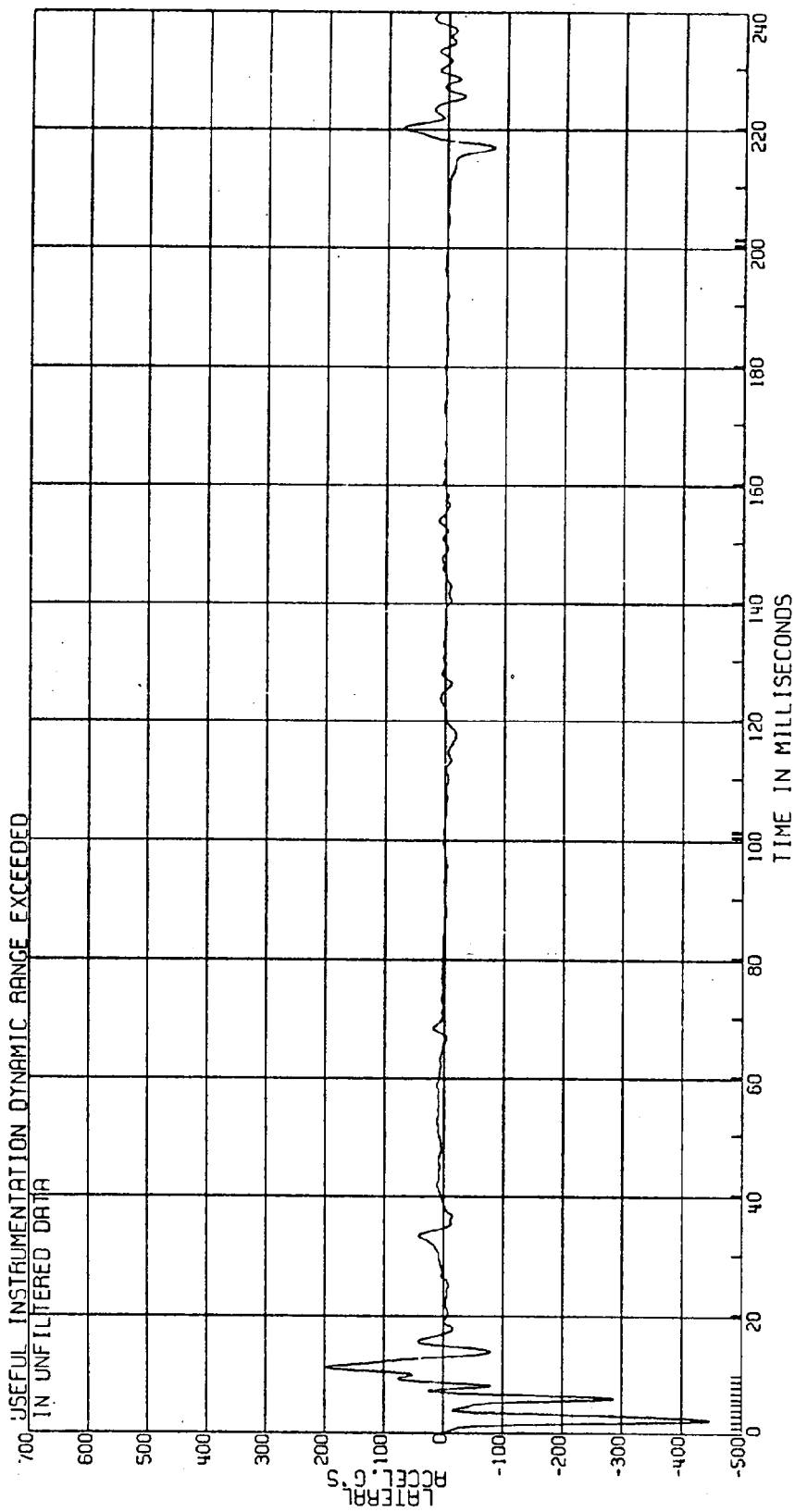
LONGITUDINAL
ACCEL. G'S

TIME IN MILLISECONDS

RELEASED BY: C. E. /

54 PROCESSED 11 DEC 84 19:21

C6109B RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 14
3865-840
F.B. CC453 3JC77 STRUCK VEH PASS-SIDE RT.FRT.DOOR - POINT C' ACCEL. TEST DATE:12-10-84
A-D DATA SAE CLASS 60



RELEASED BY: 24
57 PROCESSED 11 DE 84 19:22

CG109B RIGHT SIDE IMPACT
3865-840

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 15

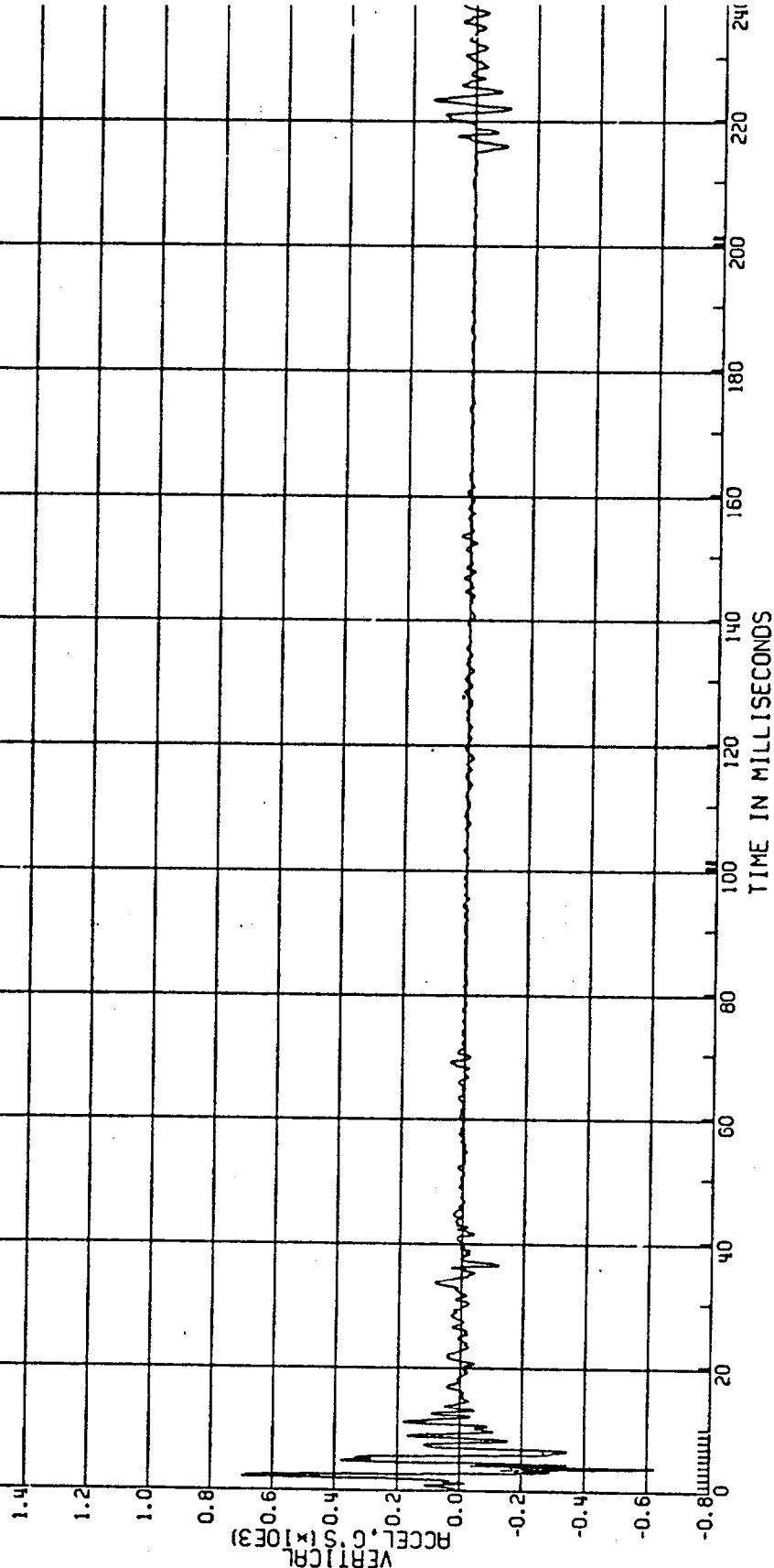
F.B. CC453 3JC77 STRUCK VEH

PASS-SIDE RT.FRT.DOOR - POINT C' ACCEL.

A-D DATA SAE CLASS 60
(NOT USED IF NOTED BELOW)

TEST DATE: 12-10-81

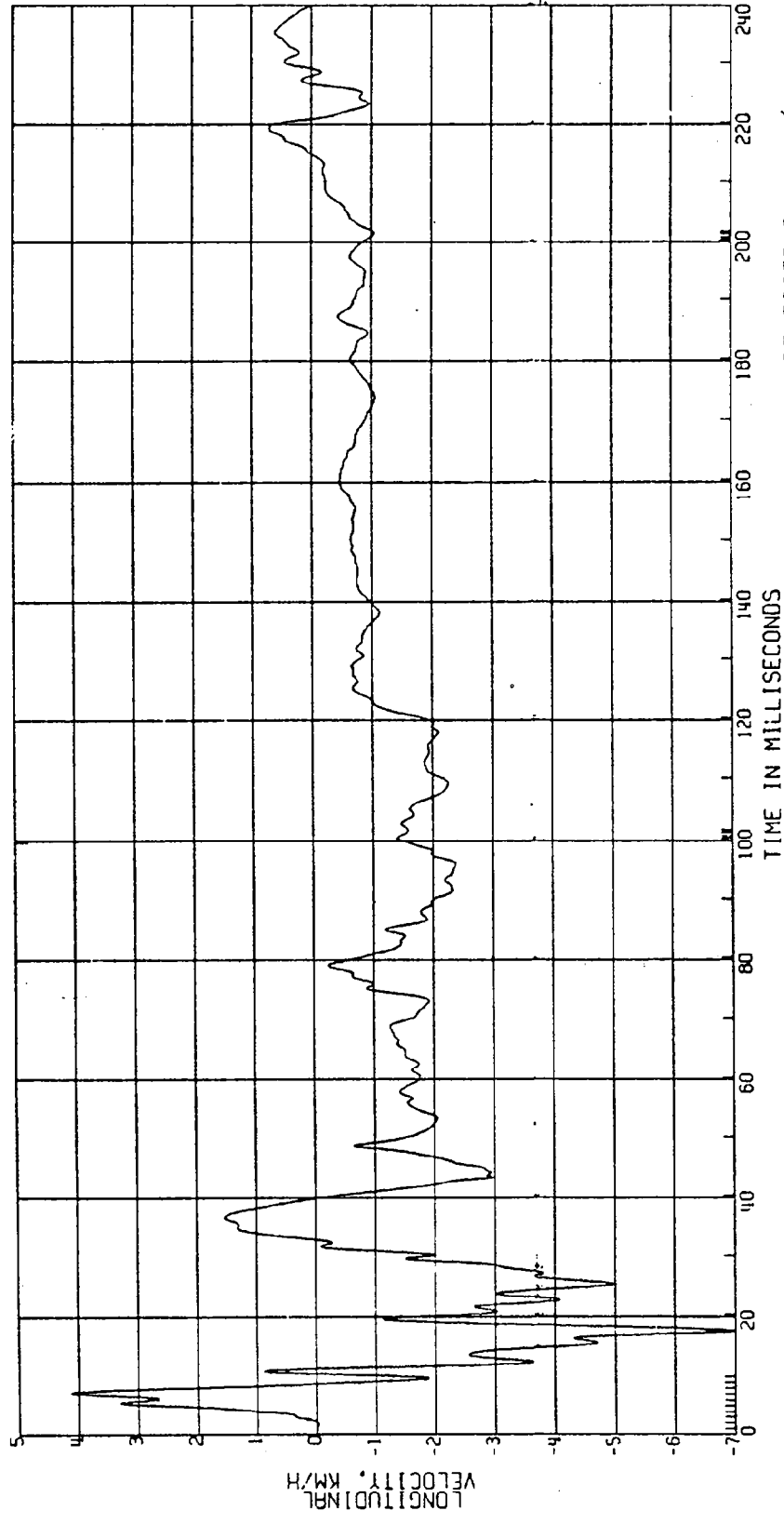
1.6 USEFUL INSTRUMENTATION DYNAMIC RANGE EXCEEDED
DATA UNFILTERED... FIRST OCCURRENCE AT 3 MS



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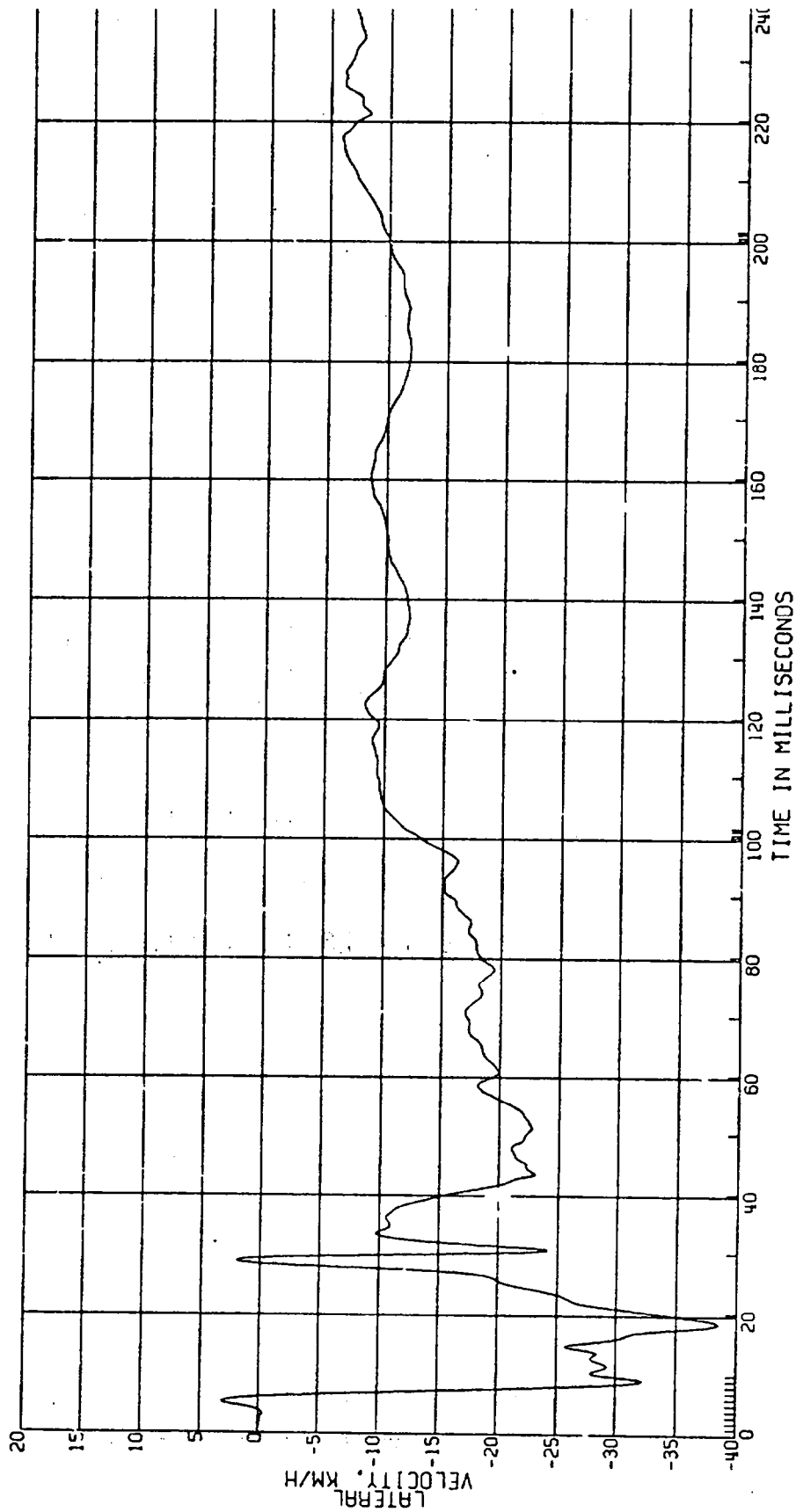
CG1098 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 16
3865-840
F.B. CC453 3JC77 STRUCK VEH COMPUTED RT.FRT.DOOR-POINT A VELOCITY TEST DATE:12-10-84
A-D DATA SAE CLASS 180 (1ST INTEGRAL PASS-SIDE ACCELERATION)



RELEASED BY: G.E.
19 PROCESSED 11 DE 84 19:14

LOIUYB HIGH SIDE IMPACT
3865-840
F.B. CC453 3JC77 STRUCK VEH
A-D DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE 40.8 KM/H FIGURE 17
COMPUTED RT.FRT.DOOR-POINT A VELOCITY
(1ST INTEGRAL PASS-SIDE ACCELERATION)
TEST DATE:12-10-84



RELEASED BY: 02
22 PROCESSED 11 DE 84 19:14

CG109B RIGHT SIDE IMPACT

3865-840

F.B. CC453 3JC77 STRUCK VEH

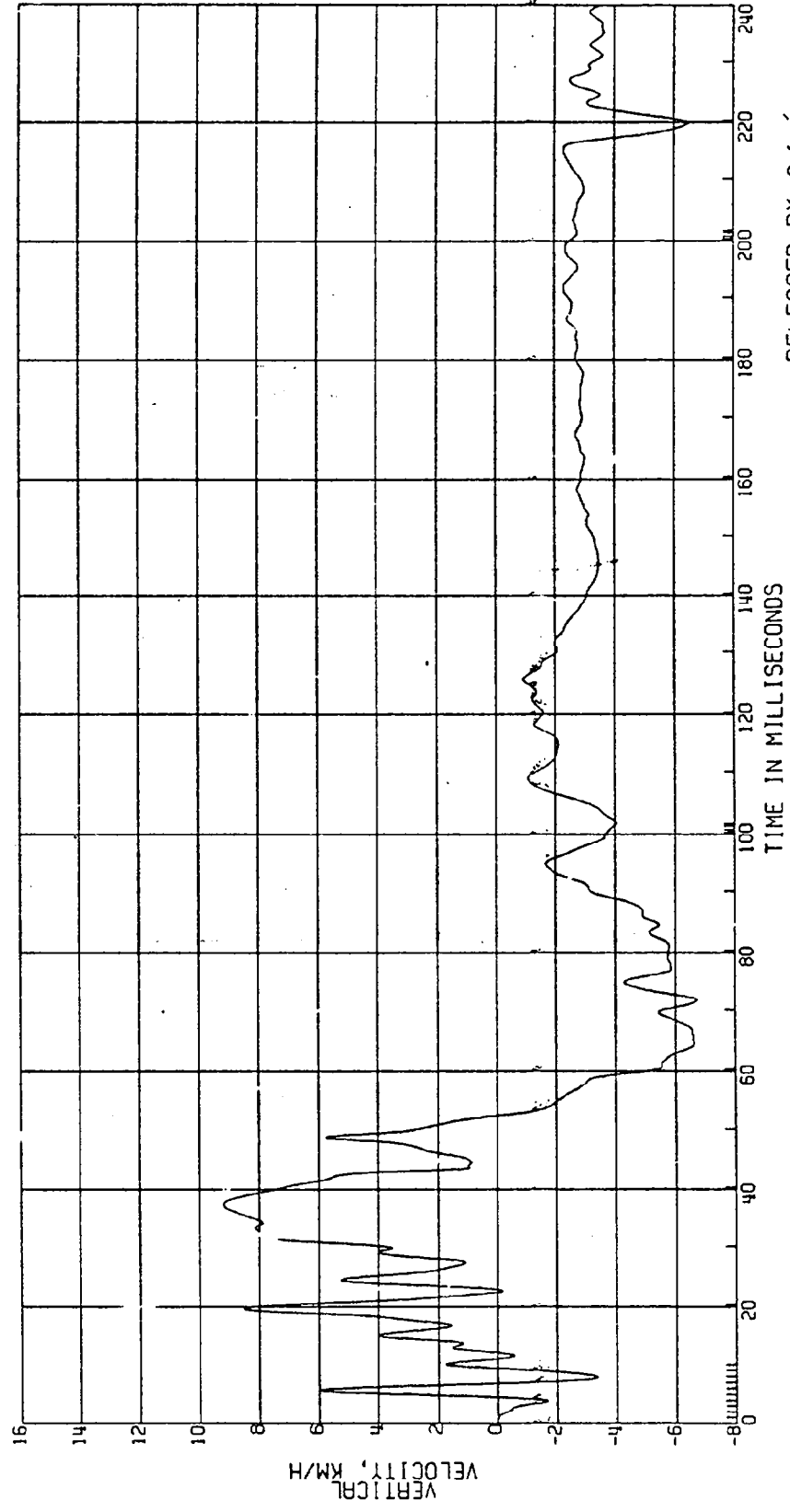
A-D DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 18

COMPUTED RT.FRT.DOOR-POINT A VELOCITY

TEST DATE:12-10-84

(1ST INTEGRAL PASS-SIDE ACCELERATION)



RELEASED BY: C-4

25 PROCESSED 11 DEC 84 19:14

CG1098 RIGHT SIDE IMPACT

3865-840

F.B. CC453 3JC77 STRUCK VEH

A-D DATA SAE CLASS 180

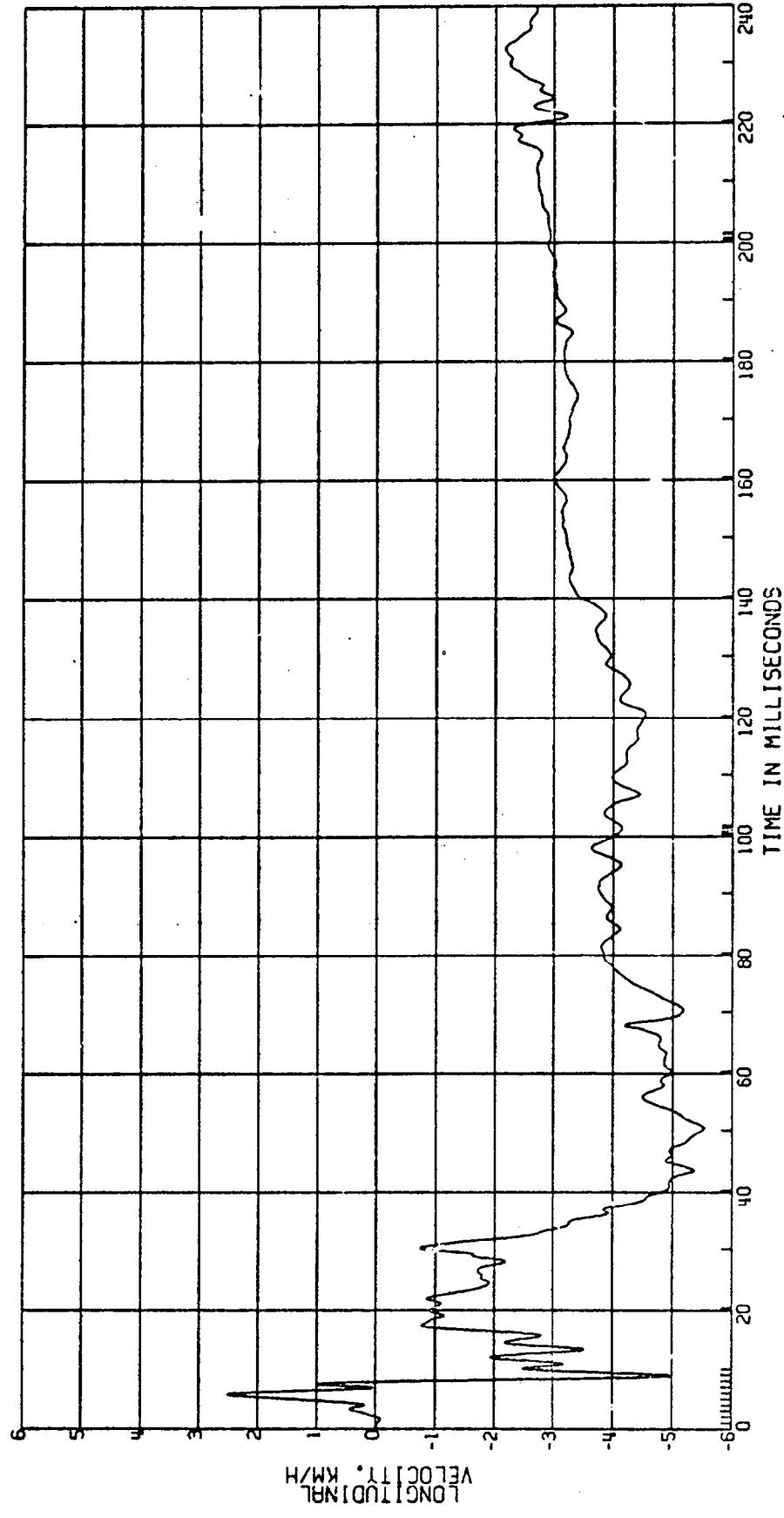
MOVING BARRIER TO PARKED VEHICLE

40.8KM/H FIGURE 19

COMPUTED RT.FRT.DOOR-POINT B VELOCITY

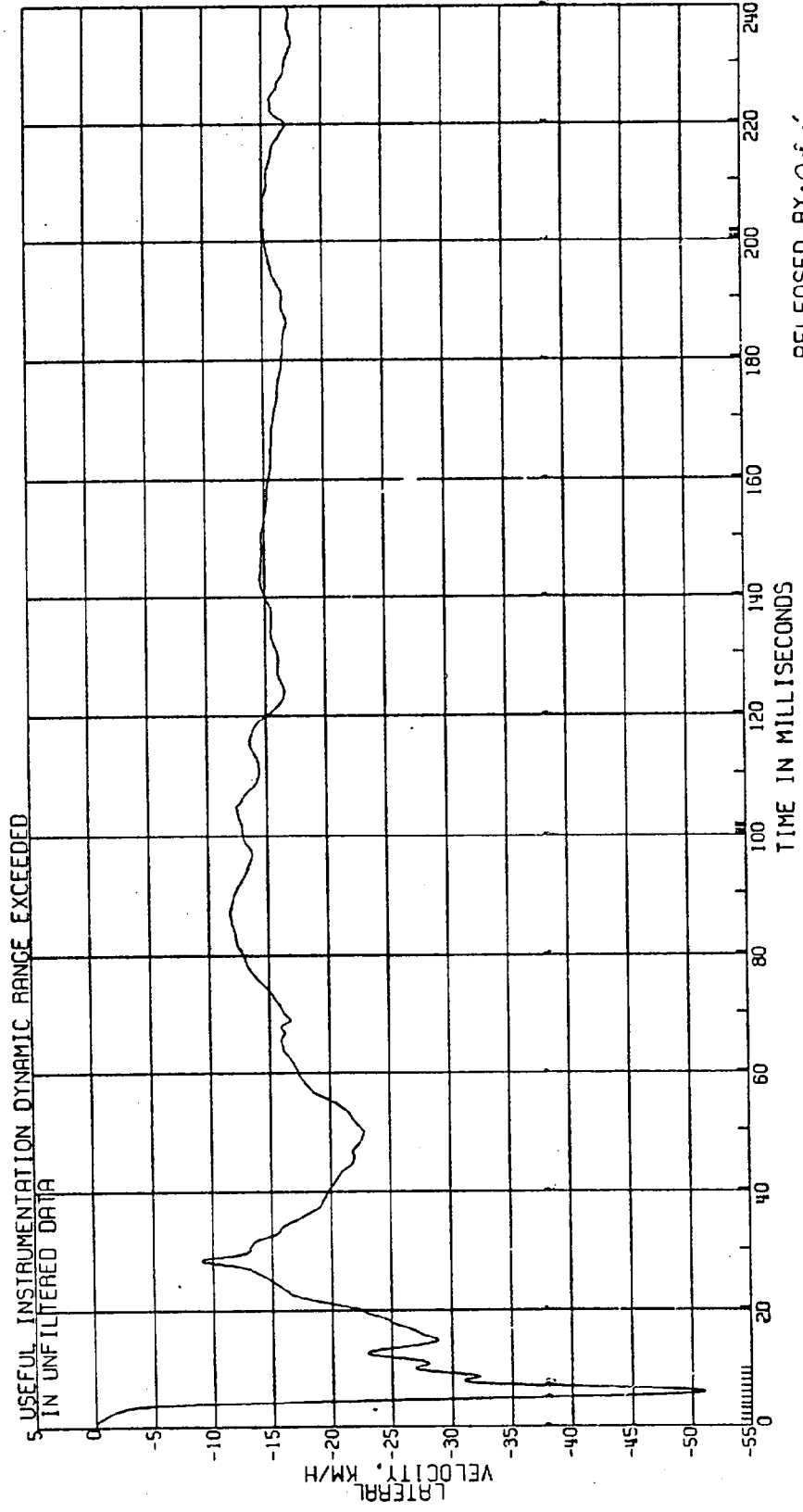
TEST DATE:12-10-84

(1ST INTEGRAL PASS-SIDE ACCELERATION)



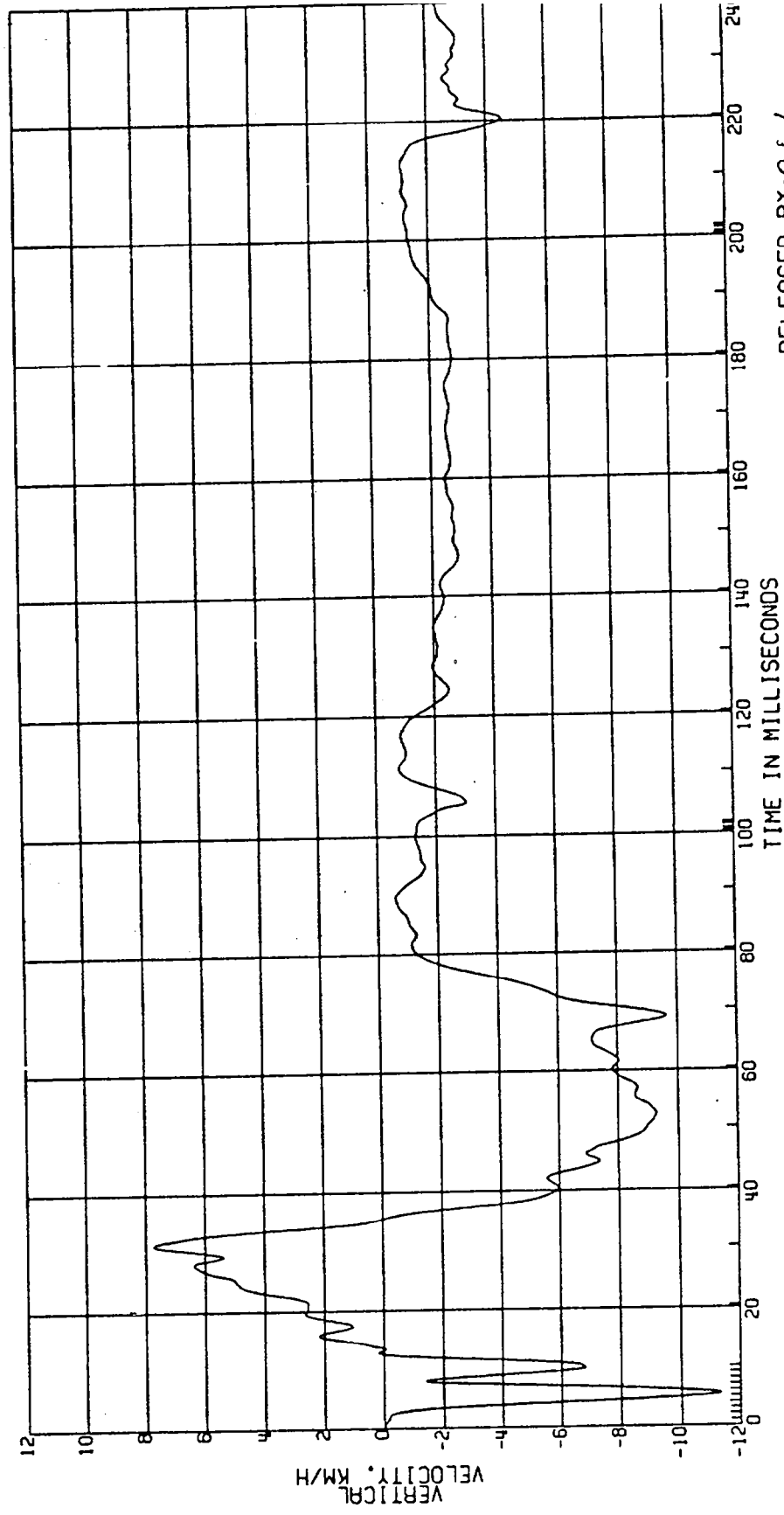
RELEASED BY: O-2-1
28 PROCESSED 11 DE 84 19:15

CG109B RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 20
 3865-840
 F.B. CC453 3JC77 STRUCK VEH COMPUTED RT.FRT.DOOR-POINT B VELOCITY TEST DATE:12-10-84
 A-D DATA SAE CLASS 180 (1ST INTEGRAL PASS-SIDE ACCELERATION)



CG1098 RIGHT SIDE IMPACT
3865-840
F.B. CC453 3JC77 STRUCK VEH
A-D DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 21
COMPUTED RT.FRT.DOOR-POINT B VELOCITY
(1ST INTEGRAL PASS-SIDE ACCELERATION) TEST DATE:12-10-84

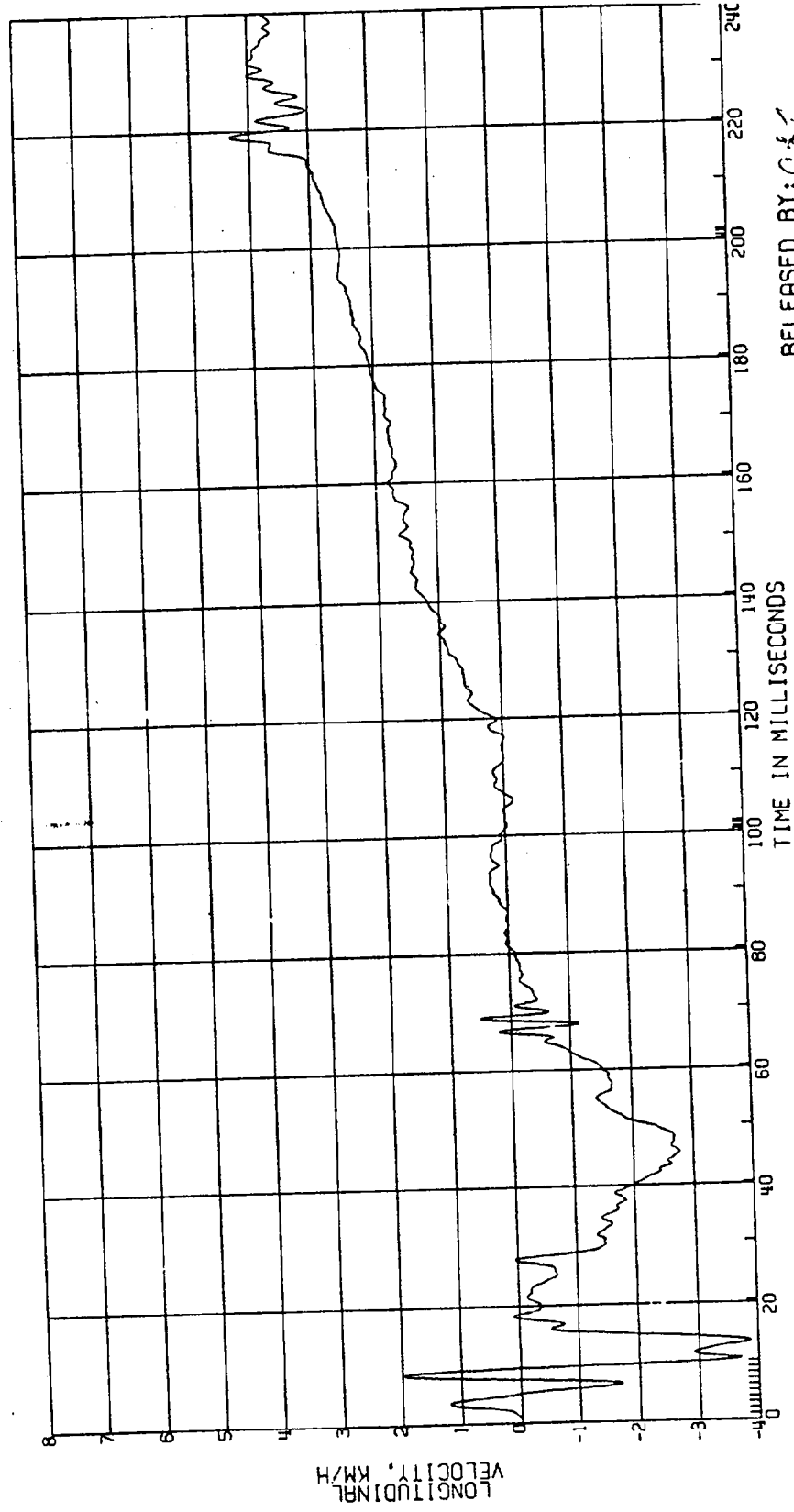


RELEASED BY: C.S. /
34 PROCESSED 11 DE 84 19:16

CG109B RIGHT SIDE IMPACT
 3865-840
 F.B. CC453 3JC77 STRUCK VEH
 A-D DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 22
 COMPUTED RT.FRT.DOOR-POINT C VELOCITY
 (1ST INTEGRAL PASS-SIDE ACCELERATION)

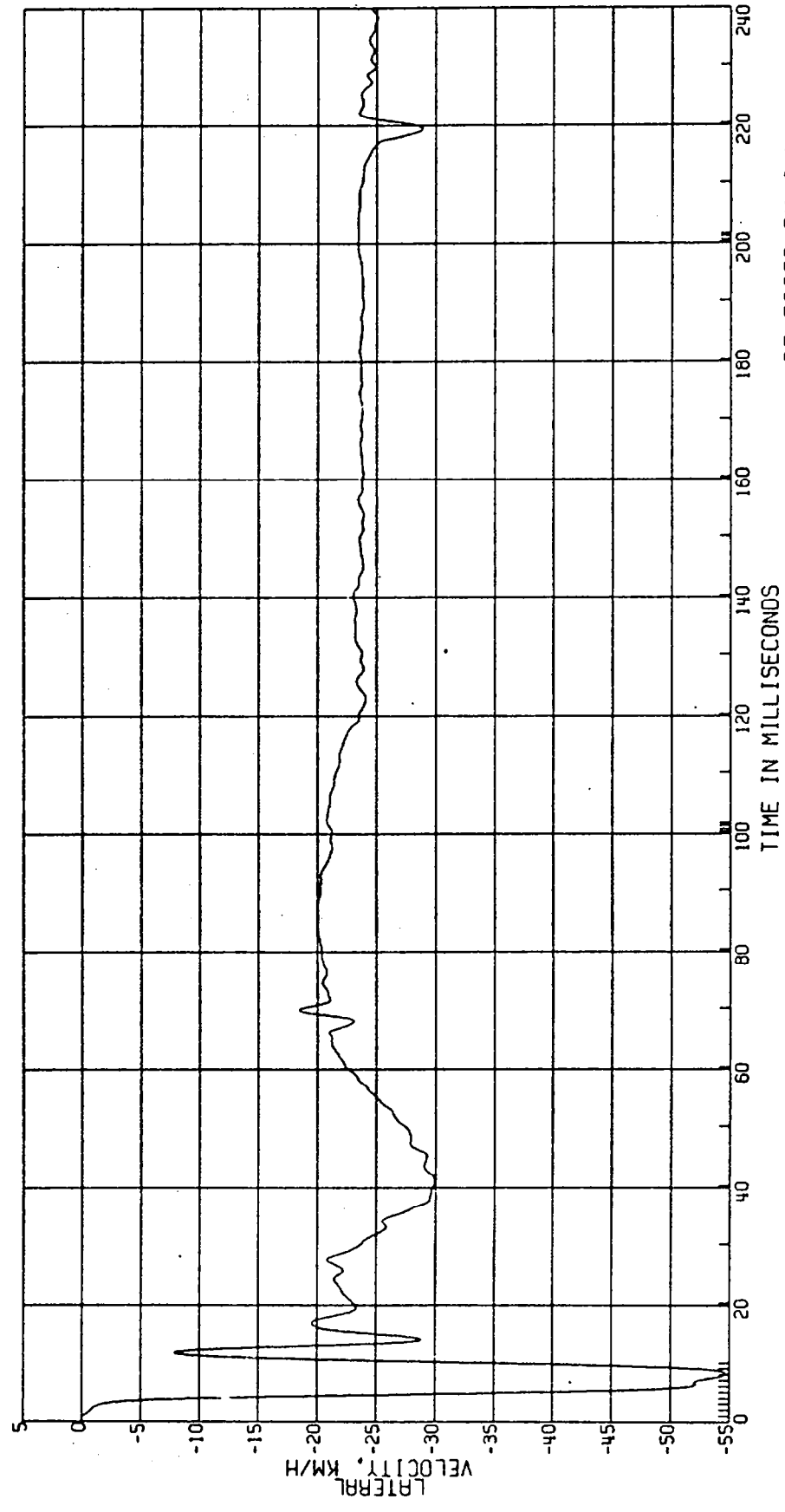
TEST DATE:12-10-84



RELEASED BY: C-2
 37 PROCESSED 11 DE 84 19:16

CG1098 RIGHT SIDE IMPACT
3865-840
F.B. CC453 3JC77 STRUCK VEH
A-D DATA SAE CLASS 180

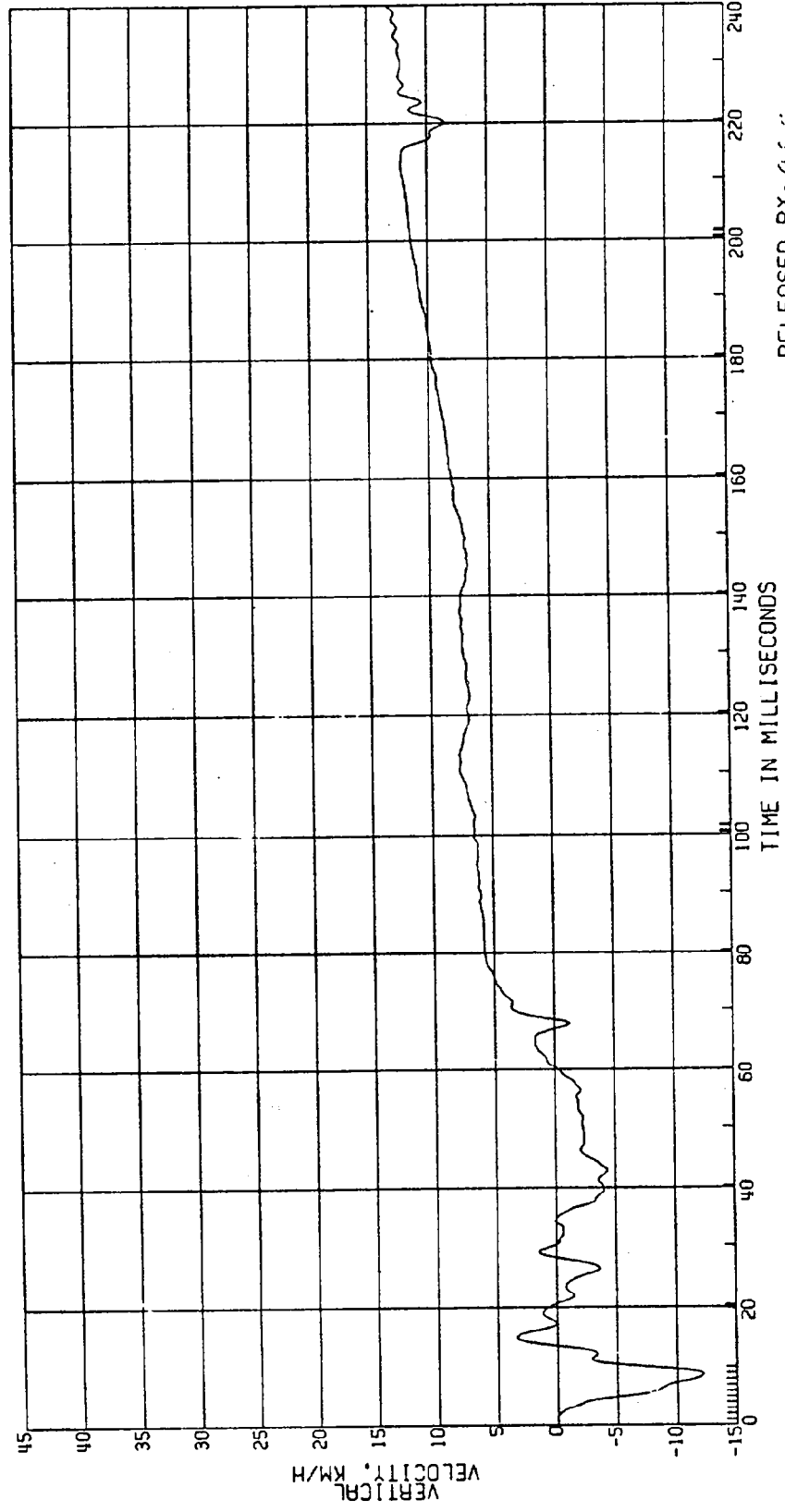
MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 23
COMPUTED RT.FRT.DOOR-POINT C VELOCITY
(1ST INTEGRAL PASS-SIDE ACCELERATION)
TEST DATE:12-10-84



CG1098 RIGHT SIDE IMPACT
3865-840
F.B. CC453 3JC77 STRUCK VEH
A-D DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 24
COMPUTED RT.FRT.DOOR-POINT C VELOCITY
(1ST INTEGRAL PASS-SIDE ACCELERATION)

TEST DATE:12-10-84



RELEASED BY: G-67
43 PROCESSED 11 DE 84 19:18

CG109B RIGHT SIDE IMPACT

3865-840

F.B. CC453 3JC77 STRUCK VEH

A-D DATA SAE CLASS 180

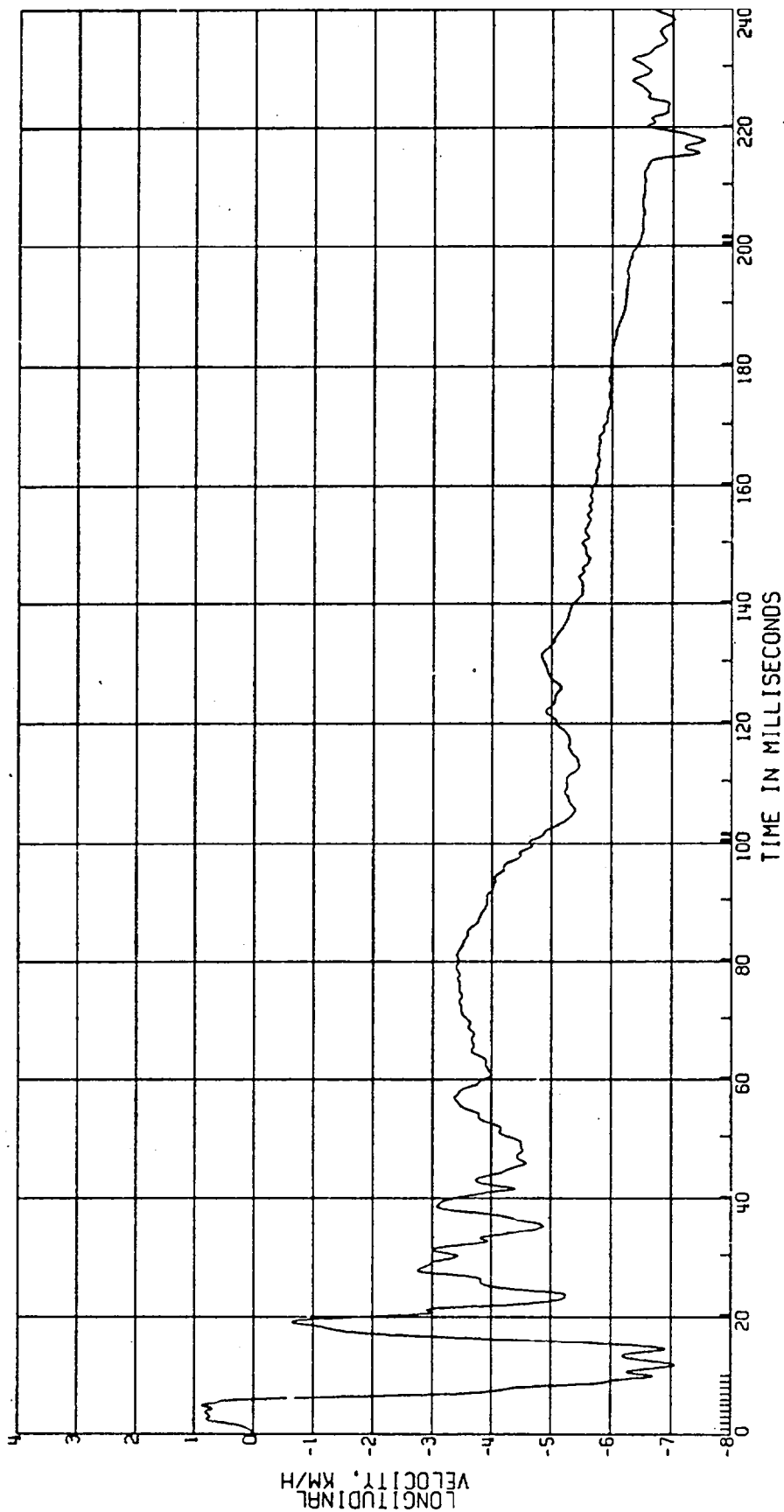
MOVING BARRIER TO PARKED VEHICLE

40.8KM/H FIGURE 25

COMPUTED RT.FRT.DOOR-POINT D VELOCITY

TEST DATE:12-10-84

(1ST INTEGRAL PASS-SIDE ACCELERATION)



RELEASED BY: Q.5 /

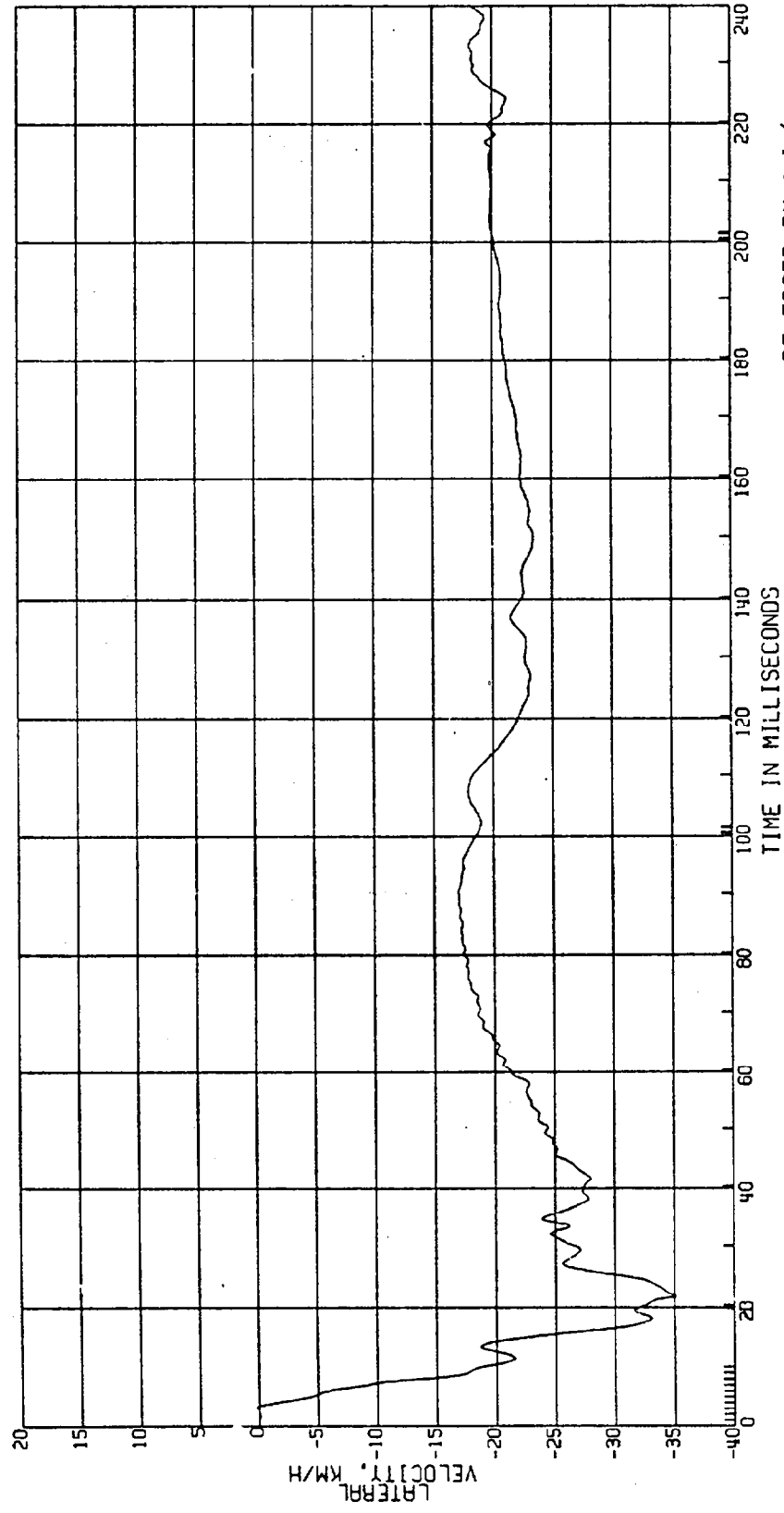
46 PROCESSED 11 OF 84 19:19

CG1098 RIGHT SIDE IMPACT
3865-840
F.B. CC453 3JC77 STRUCK VEH
A-D DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE 40.8 KM/H FIGURE 2G

COMPUTED RT.FRT.DOOR-POINT O VELOCITY
(1ST INTEGRAL PASS-SIDE ACCELERATION)

TEST DATE: 12-10-84

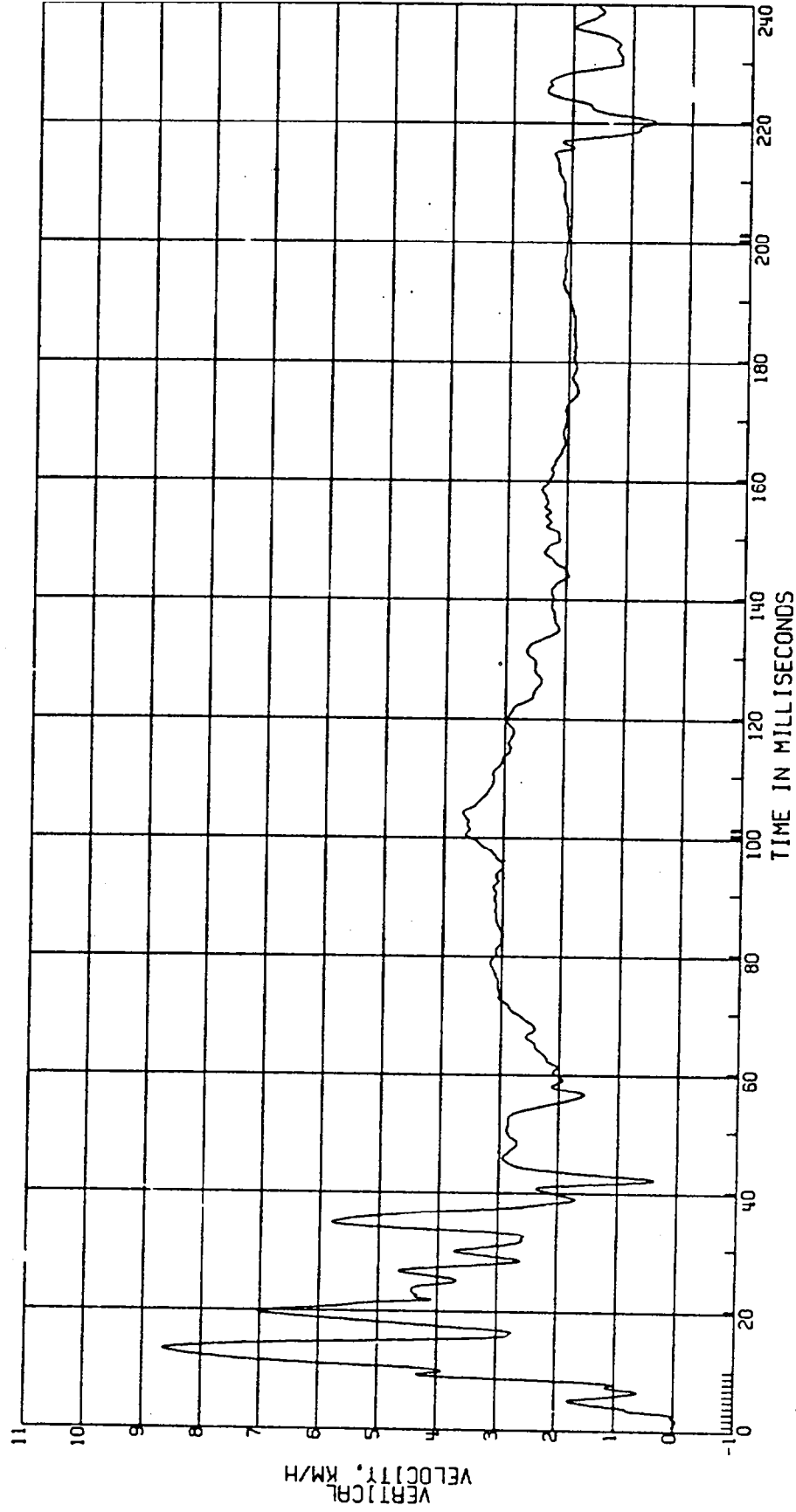


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49 PROCESSED 11 DE 84 19:20

CG1098 RIGHT SIDE IMPACT
3865-840
F.B. CC453 3JC77 STRUCK VEH
A-D DATA SAE CLASS 180

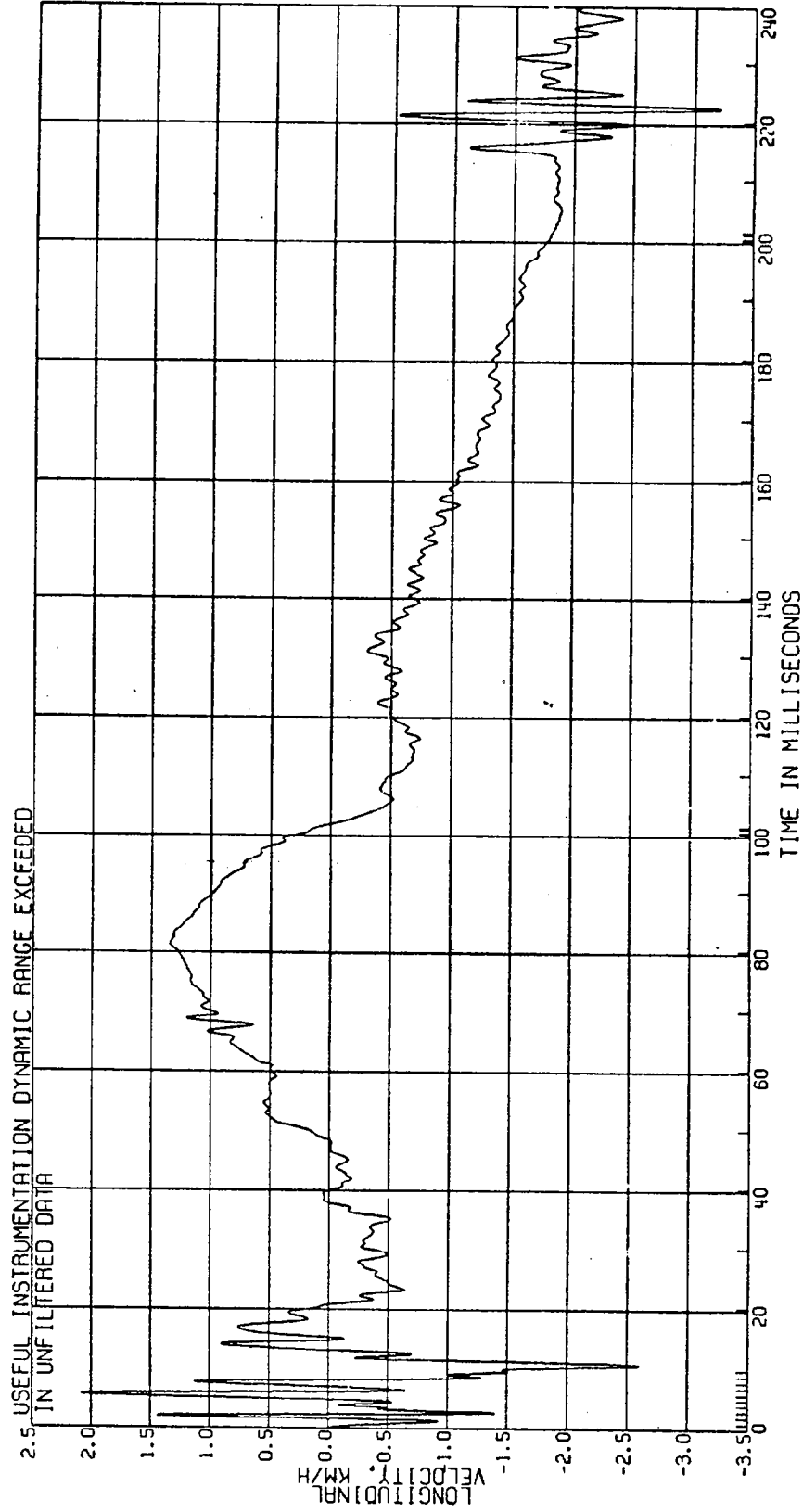
MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 27
COMPUTED RT.FRT.DOOR-POINT D VELOCITY
(1ST INTEGRAL PASS-SIDE ACCELERATION)
TEST DATE:12-10-84



RELEASED BY: J.F. 7
52 PROCESSED 11 DE 84 19:21

CG109B RIGHT SIDE IMPACT
3865-840
F.B. CC453 3JC77 STRUCK VEH
A-D DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE 40.8 KM/H FIGURE 28
COMPUTED RT.FRT.DOOR-POINT C' VELOCITY
(1ST INTEGRAL PASS-SIDE ACCELERATION)
TEST DATE: 12-10-84

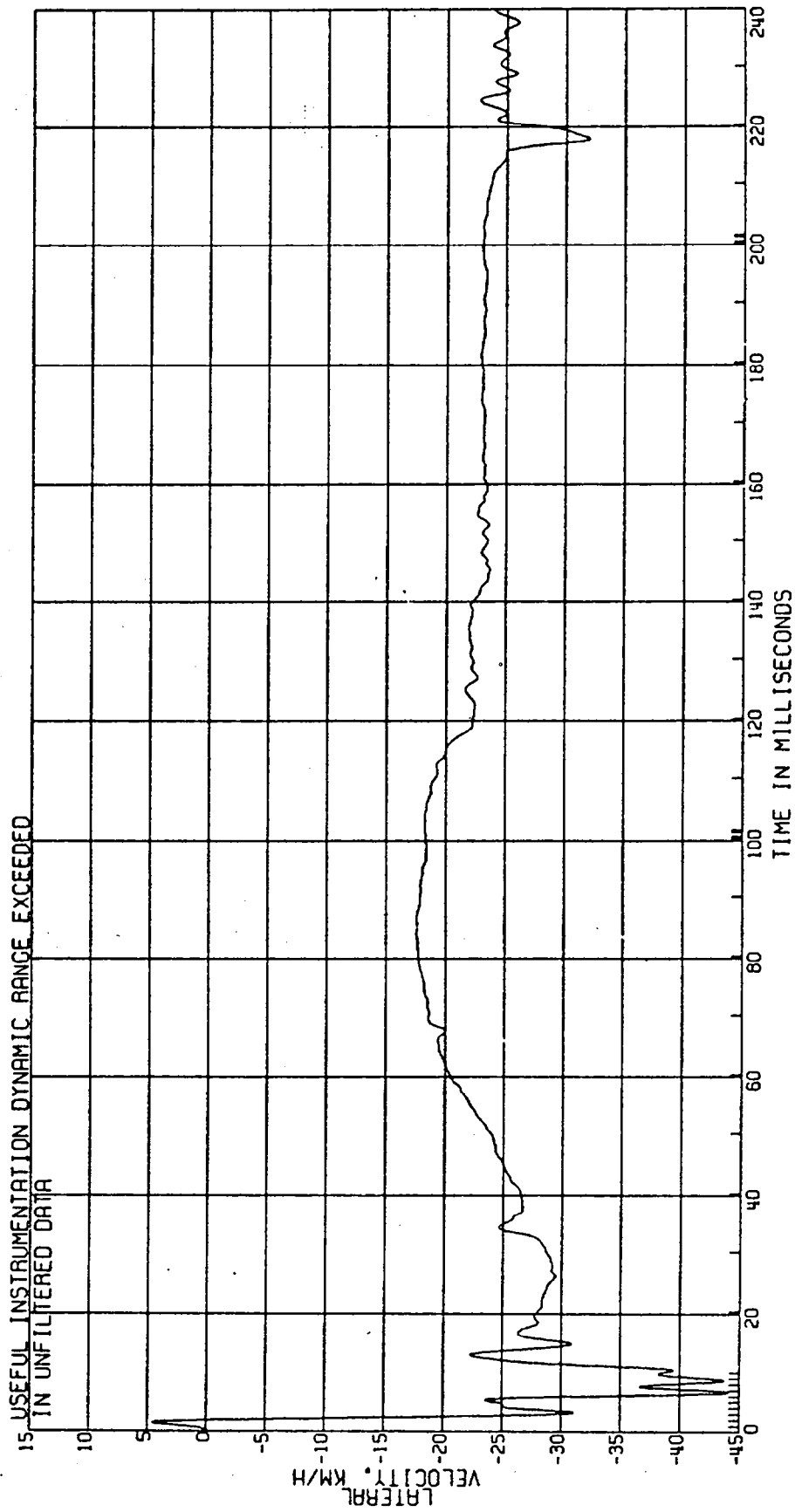


RELEASED BY: J. J. J.
55 PROCESSED 11 DE 84 19:21

CG1098 RIGHT SIDE IMPACT
3865-840
F.B. CC453 3JC77 STRUCK VEH
A-D DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 29
COMPUTED RT.I. DOOR-POINT C' VELOCITY
(1ST INTEGRAL PASS-SIDE ACCELERATION)

TEST DATE: 12-10-84



RELEASED BY: O&A
58 PROCESSED 11 DE 84 19:22

CG109B RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE 40.8 KM/H FIGURE 30

3865-840

F.B. CC453 3JC77 STRUCK VEH

COMPUTED RT.FAT.DOOR-POINT C' VELOCITY

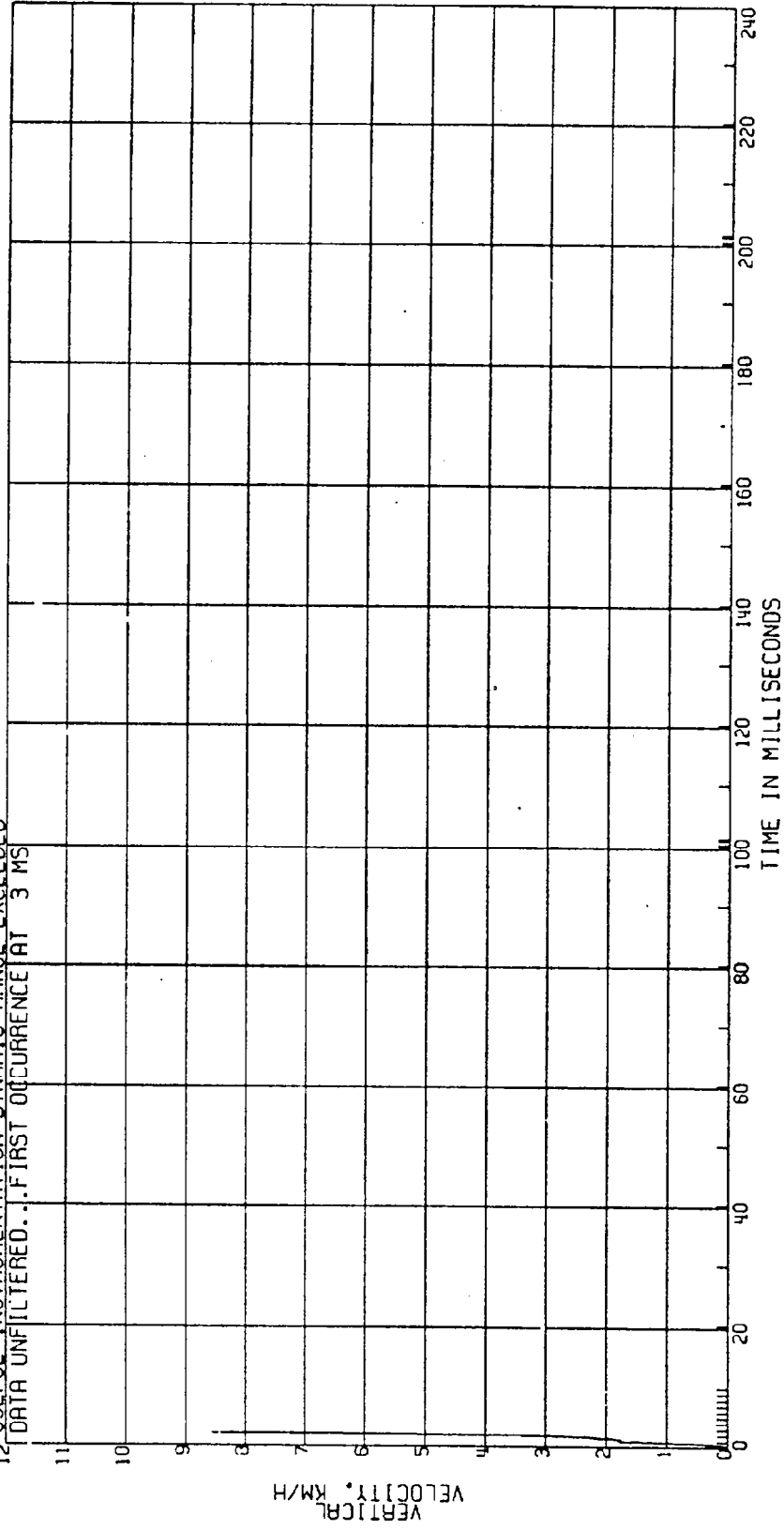
TEST DATE: 12-10-84

A-D DATA SAE CLASS 180

(1ST INTEGRAL PASS-SIDE ACCELERATION)

NOT USED IF NOTED BELOW

12 USEFUL INSTRUMENTATION DYNAMIC RANGE EXCEEDED
1 DATA UNFILTERED... FIRST OCCURRENCE AT 3 MS

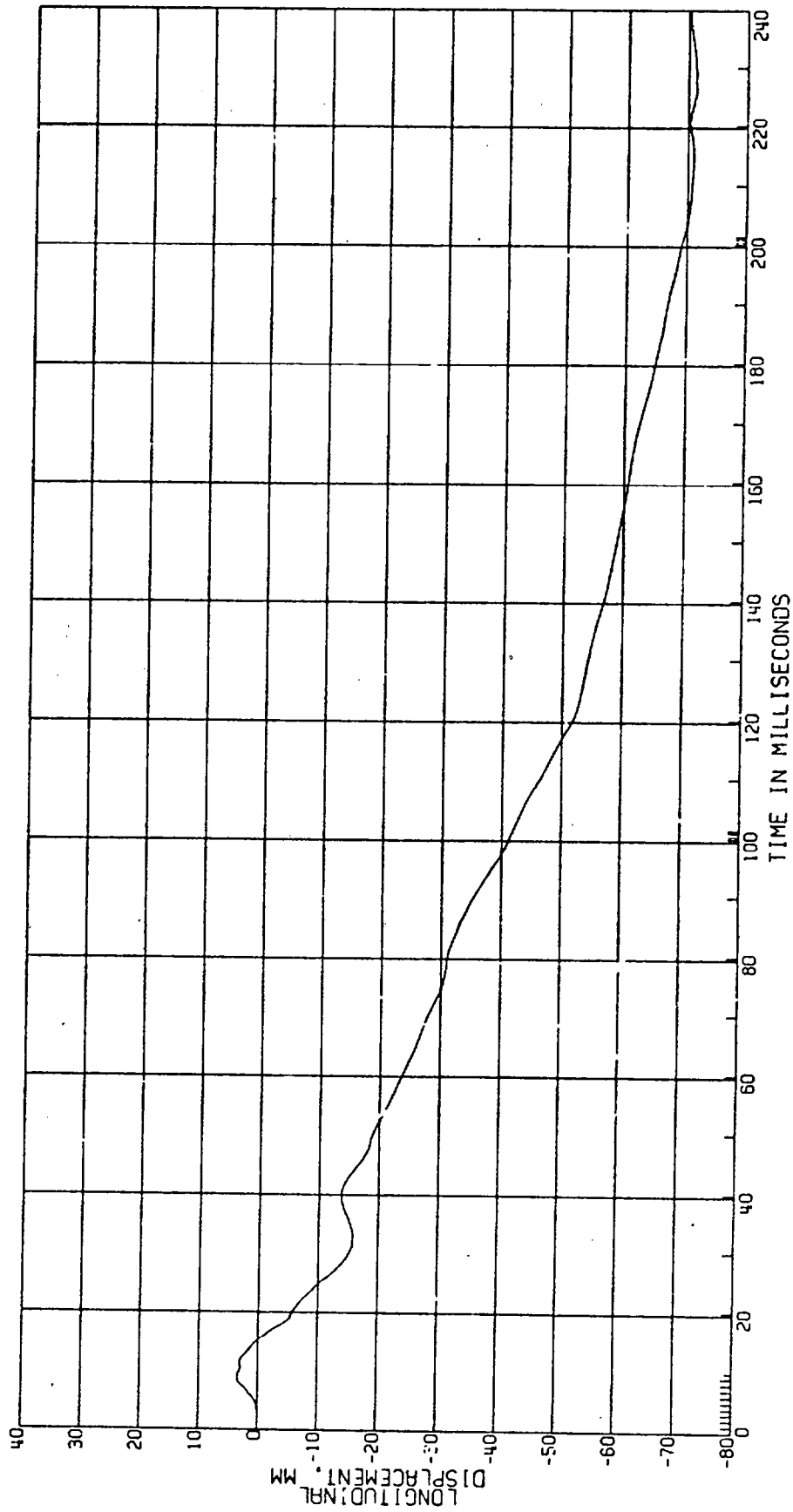


RELEASED BY: C-2

61 PROCESSED 11 DE 84 19:32

U6109B RIGHT SIDE IMPACT
3865-840
F.B. CC453 3JC77 STRUCK VEH
A-D DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 31
COMPUTED RT.FRT.DOOR-POINT A DISPLACEMENT
(2ND INTEGRAL PASS-SIDE ACCELERATION) TEST DATE:12-10-84



RELEASED BY: Q41
20 PROCESSED 11 DE 84 19:14

CG109B RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 32

3865-840

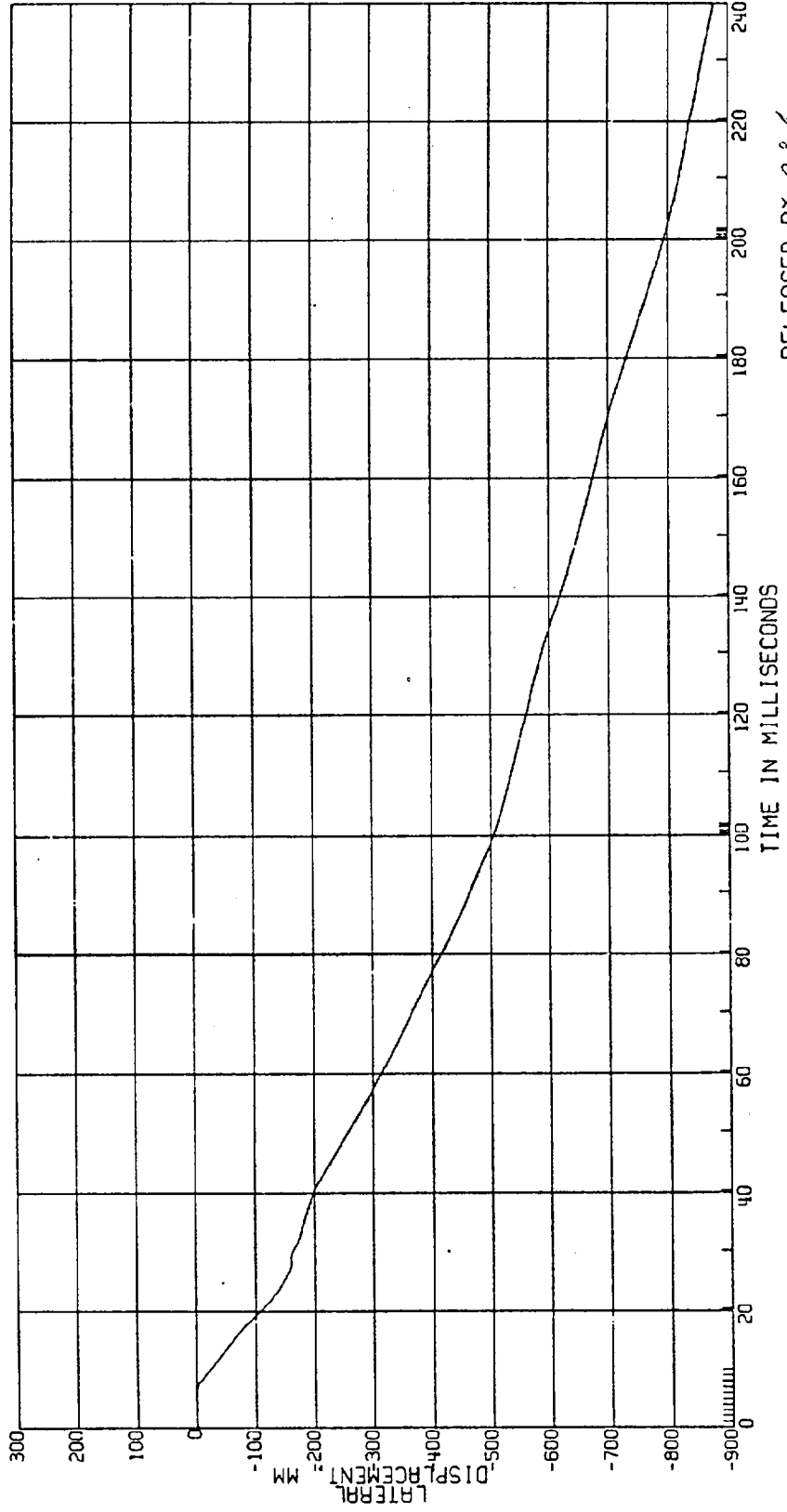
F.B. CC453 3JC77 STRUCK VEH

COMPUTED RT.FRT.DOCR-POINT A DISPLACEMENT

TEST DATE:12-10-84

A-D DATA SAE CLASS 180

(2ND INTEGRAL PASS-SIDE ACCELERATION)



RELEASED BY: 021

23 PROCESSED 11 DE 84 19:14

CG109B RIGHT SIDE IMPACT

3865-840

F.B. CC453 3JC77 STRUCK VEH

A-D DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE

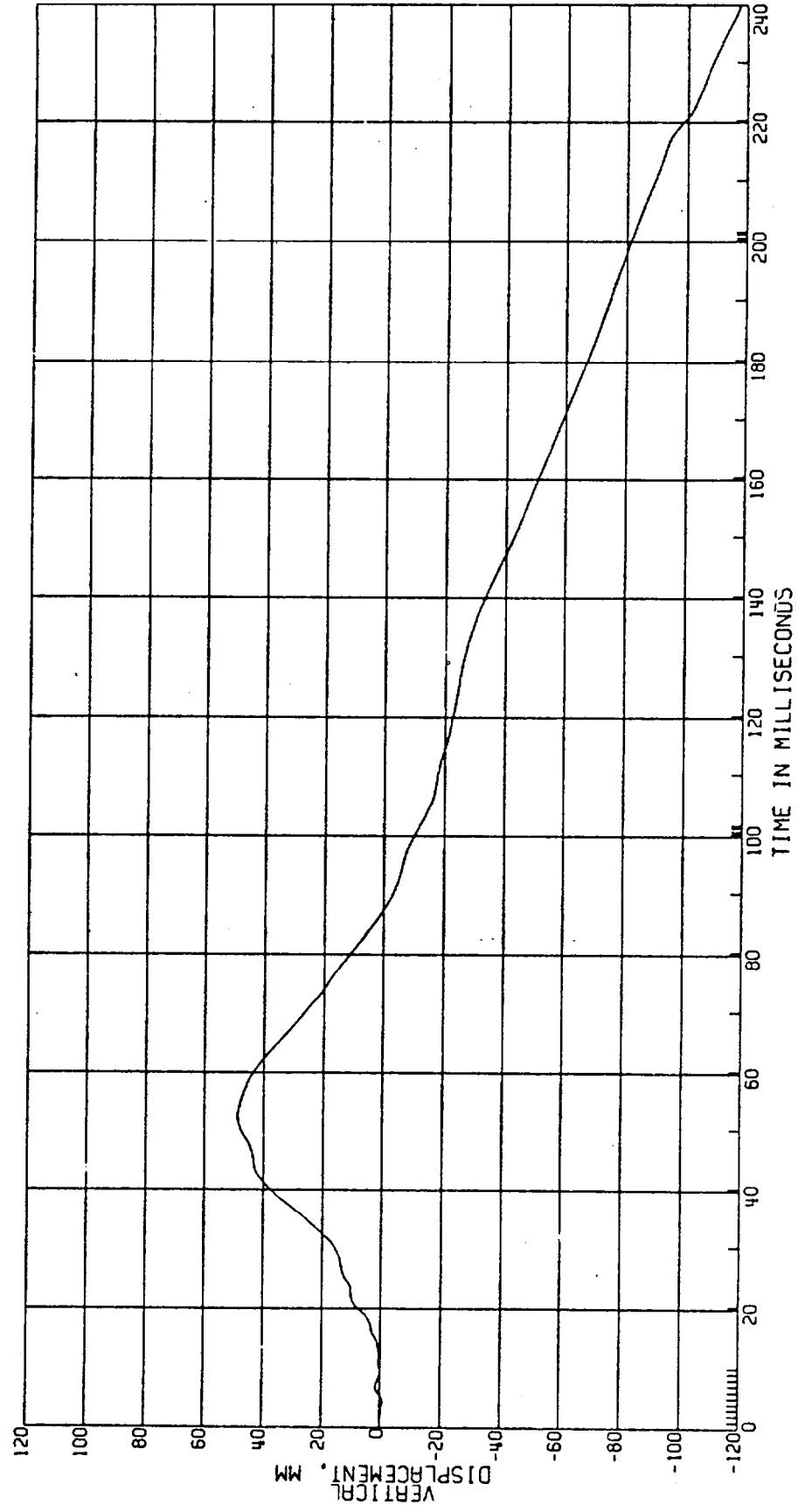
33

40.8KM/H FIGURAL

COMPUTED RT.FRT.DOOR-POINT A DISPLACEMEN

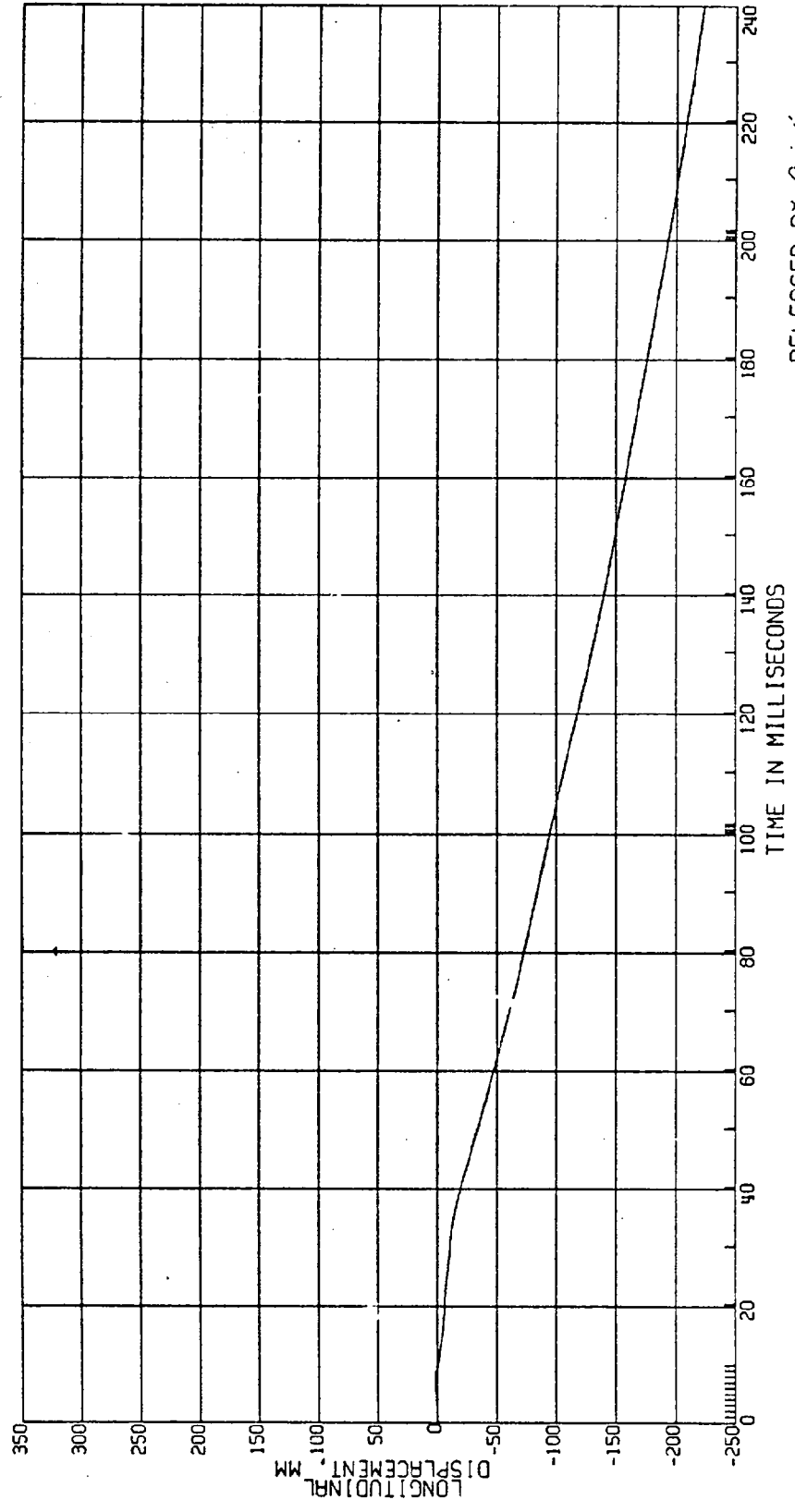
TEST DATE:12-10-84

(2ND INTEGRAL PASS-SIDE ACCELERATION)



RELEASED BY: 12
26 PROCESSED 11 DE 84 19:15

CG1098 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 34
3865-840
F.B. CC453 3JC77 STRUCK VEH COMPUTED RT.FRT.DOOR-POINT B DISPLACEMENT TEST DATE:12-10-84
A-D DATA SAE CLASS 180 (2ND INTEGRAL PASS-SIDE ACCELERATION)



CG1098 RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 35

3865-840

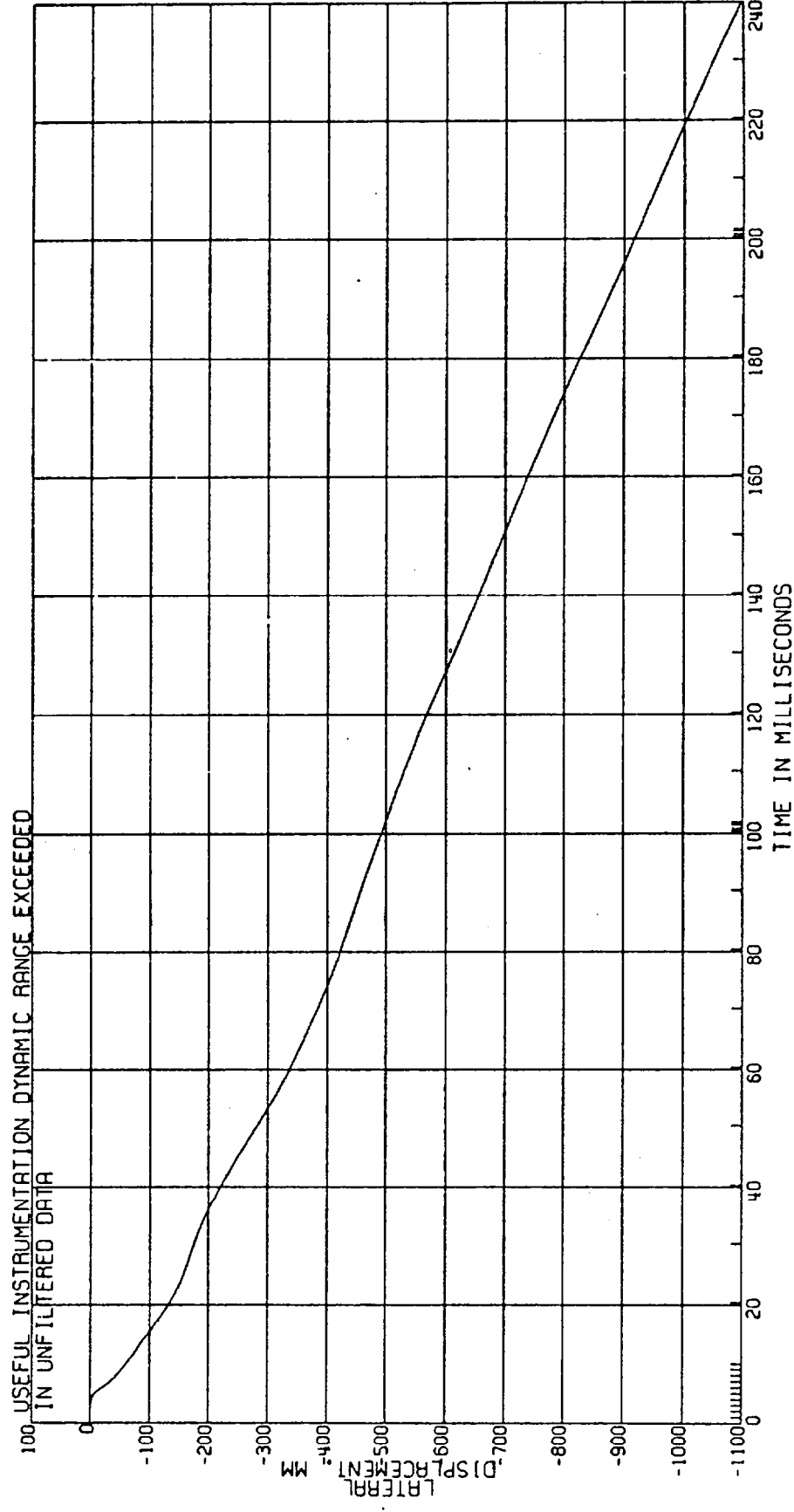
F.B. CC453 3JC77 STRUCK VEH

COMPUTED RT.FRT.DOOR-POINT B DISPLACEMENT

TEST DATE:12-10-84

A-D DATA SAE CLASS 180

(2ND INTEGRAL PASS-SIDE ACCELERATION)



RELEASED BY:021

32 PROCESSED 11 DE 84 19:15

CG1098 RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE

40.8KM/H FIGURE 36

3865-840

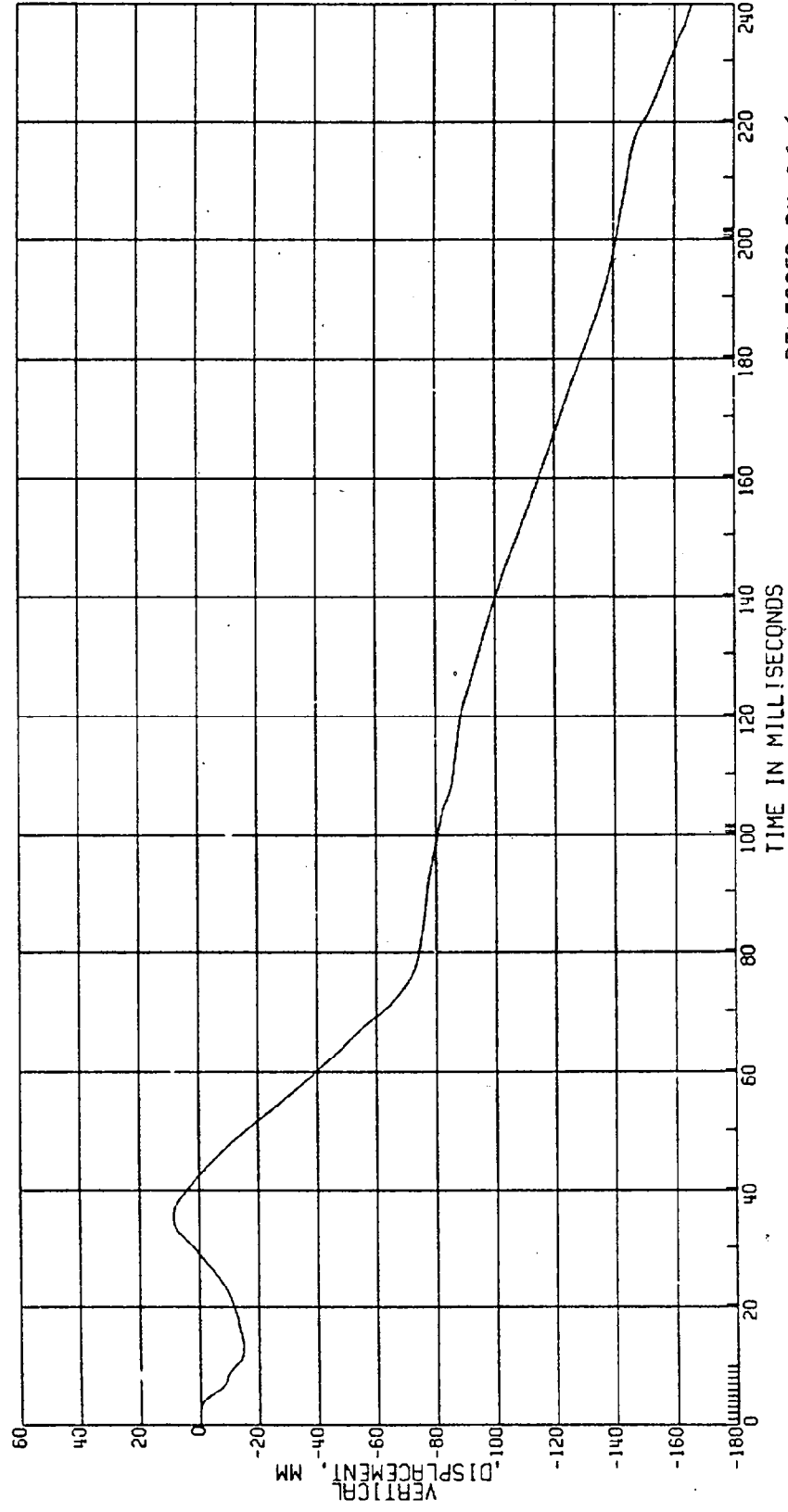
F.B. CC453 3JC77 STRUCK VEH

COMPUTED RT.FRT.DOOR-POINT B DISPLACEMENT

TEST DATE: 12-10-84

A-D DATA SAE CLASS 180

(2ND INTEGRAL PASS-SIDE ACCELERATION)



RELEASED BY: 021

35 PROCESSED 11 DE 84 19:16

CG1098 RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 37

3865-840

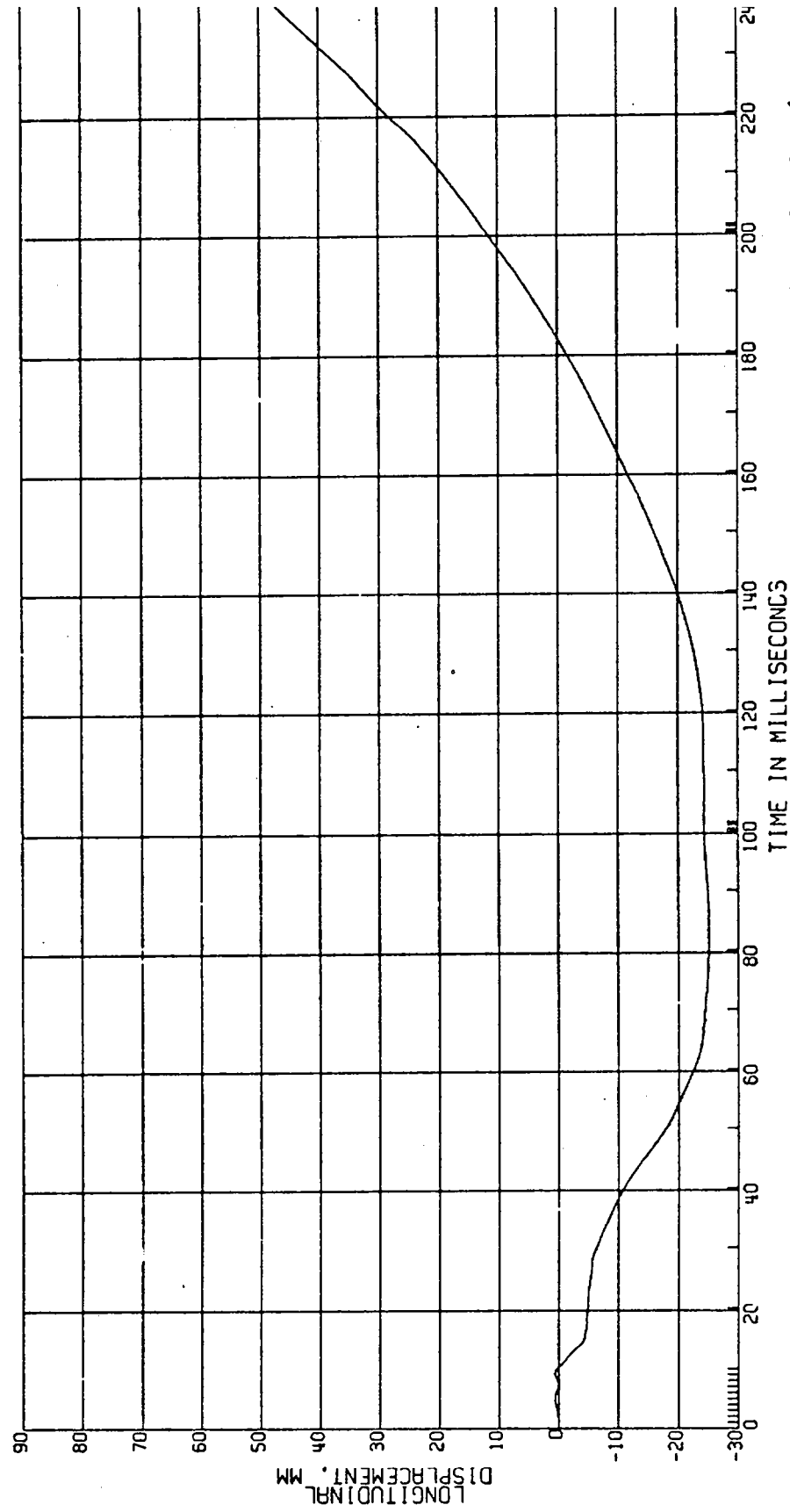
F.B. CC453 3JC77 STRUCK VEH

COMPUTED RT.FRT.DOOR-POINT C DISPLACEMENT

TEST DATE:12-10-84

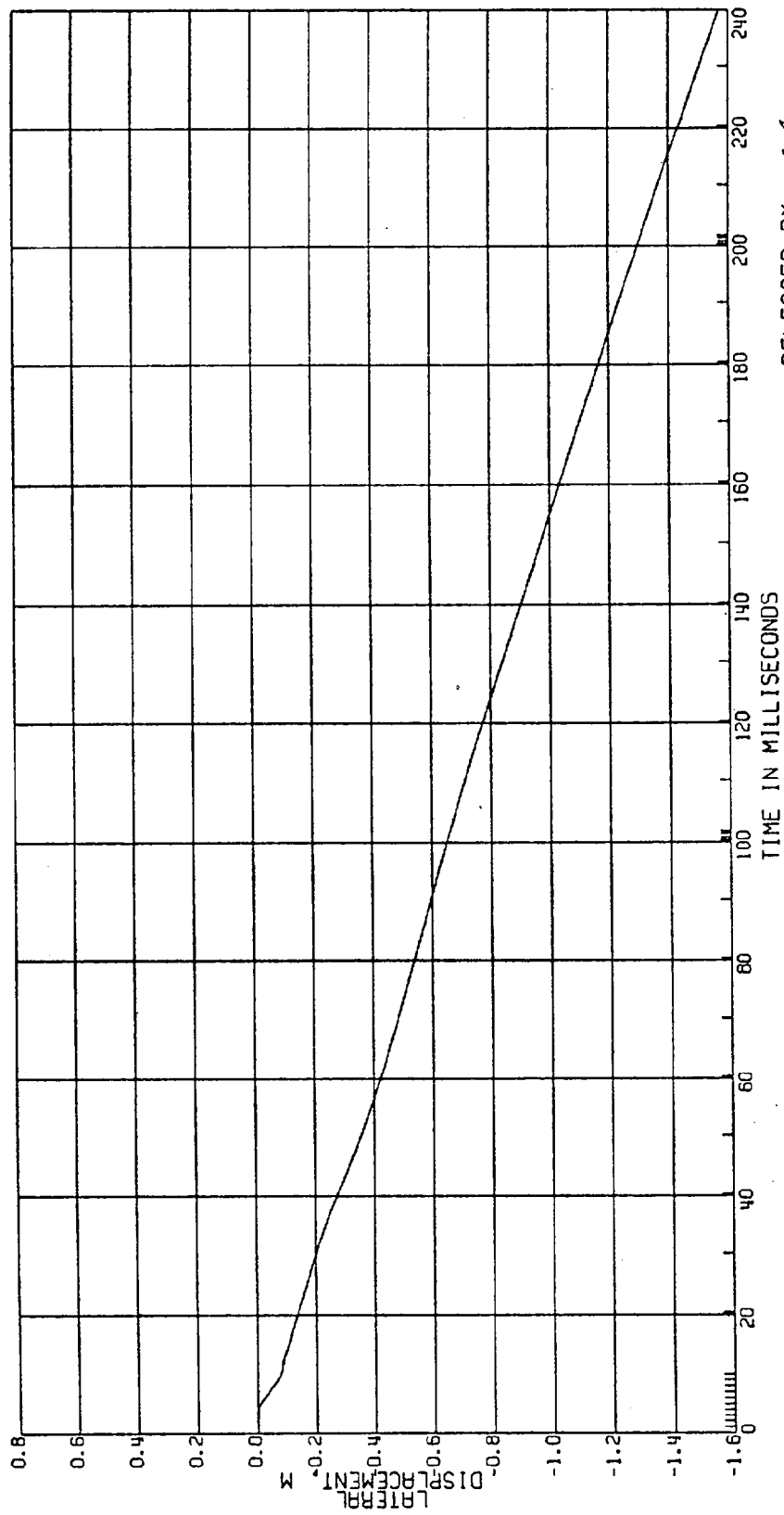
A-D DATA SAE CLASS 180

(2ND INTEGRAL PASS-SIDE ACCELERATION)



RELEASED BY: 047
38 PROCESSED 11 DE 84 19:17

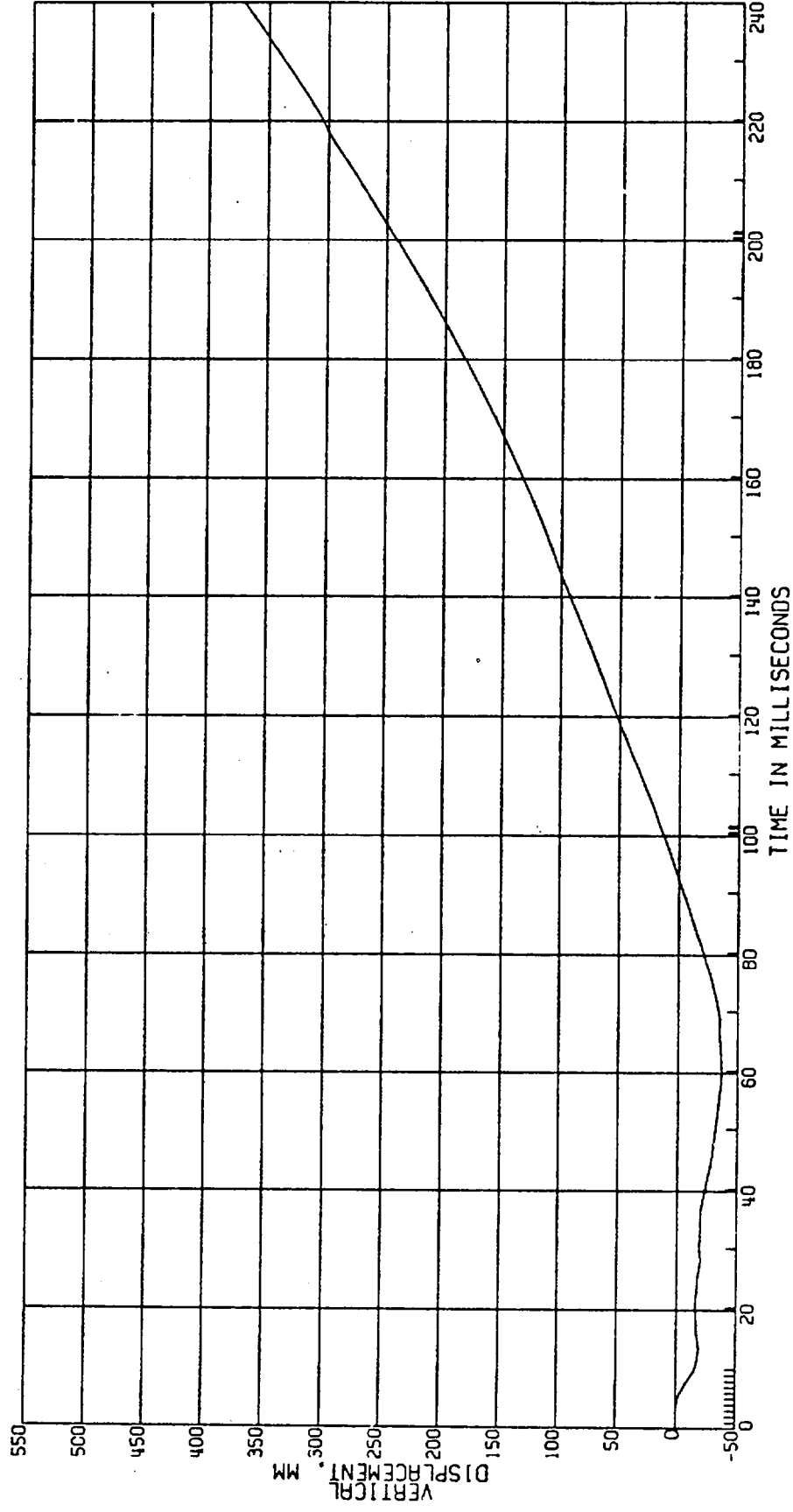
C6109B RIGHT SIDE IMPACT
 3865-840
 F.B. CC453 3JC77 STRUCK VEH
 A-D DATA SAE CLASS 180
 MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 38
 COMPUTED RT.FRT.DOOR-POINT C DISPLACEMENT
 (2ND INTEGRAL PASS-SIDE ACCELERATION) TEST DATE: 12-10-84



RELEASED BY: OZ
 41 PROCESSED 11 DE 84 19:18

CG1098 RIGHT SIDE IMPACT
3865-840
F.B. CC453 3JC77 STRUCK VEH
A-D DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 39
COMPUTED RT.FRT.DOOR-POINT C DISPLACEMENT
TEST DATE:12-10-84
(2ND INTEGRAL PASS-SIDE ACCELERATION)



RELEASED BY: G&A
44 PROCESSED 11 DE 84 19:19

C6109B RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE 40.8 KM/H FIGURE 40

3865-840

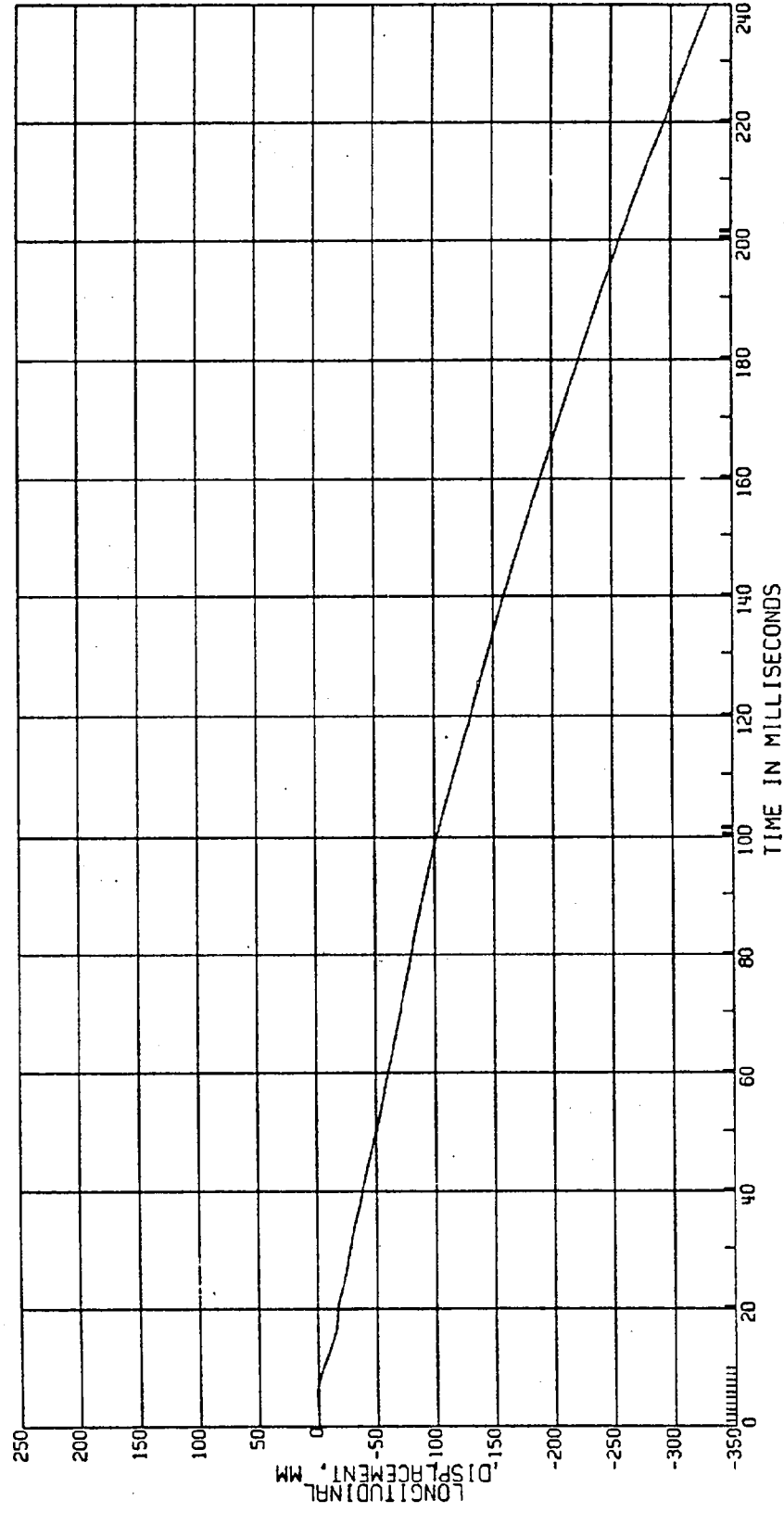
F.B. CC453 3JC77 STRUCK VEH

COMPUTED RT.FRT.DOOR-POINT O DISPLACEMENT

TEST DATE: 12-10-84

A-C DATA SAE CLASS 180

(2ND INTEGRAL PASS-SIDE ACCELERATION)



RELEASED BY: 081

47 PROCESSED 11 DE 84 19:19

CG1098 RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE

40.8KM/H FIGURE 4/2

3865-840

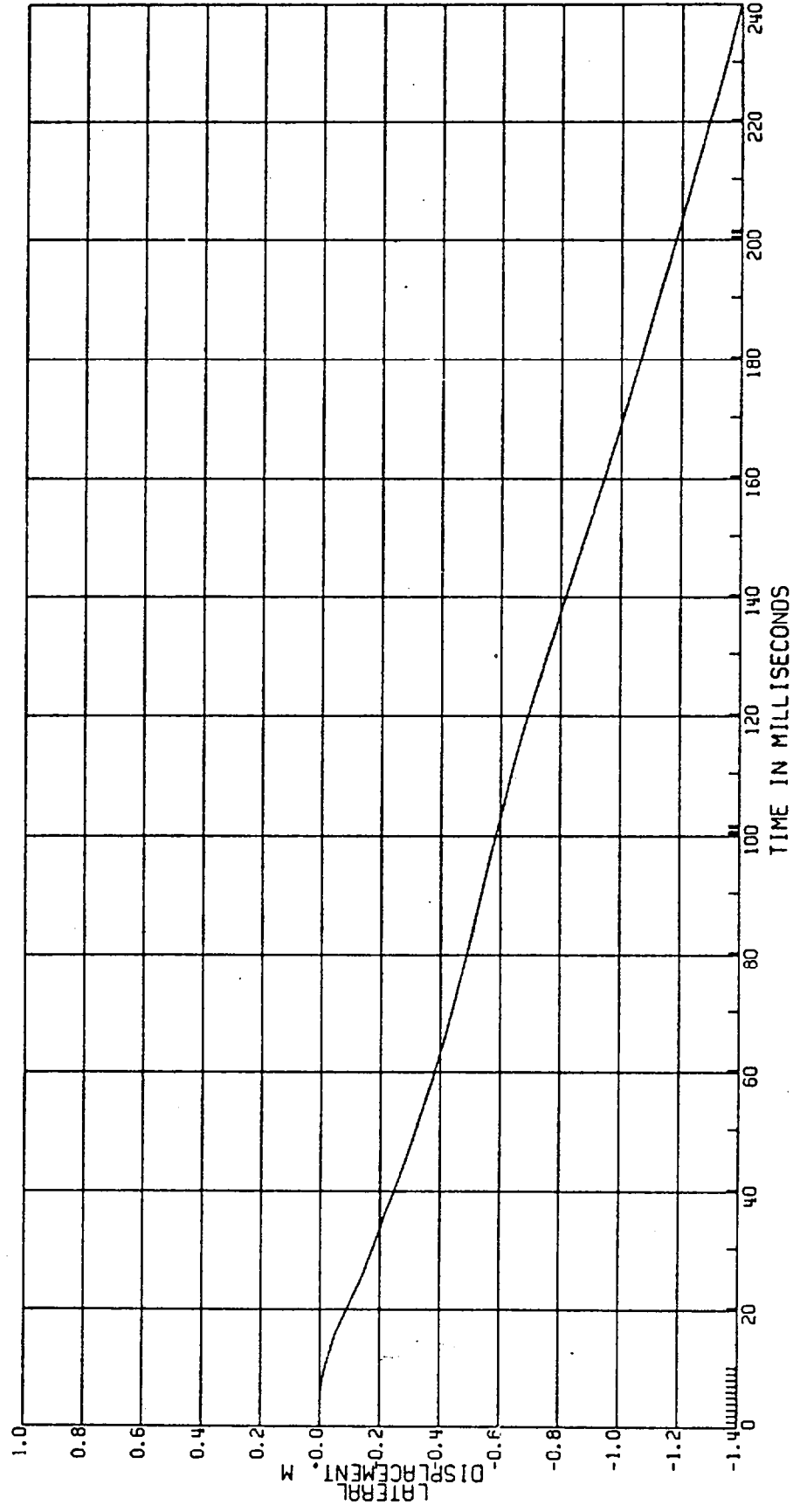
F.B. CC453 3JC77 STRUCK VEH

COMPUTED RT.FRT.DOOR-POINT O DISPLACEMENT

TEST DATE: 12-10-84

A-D DATA SAE CLASS 180

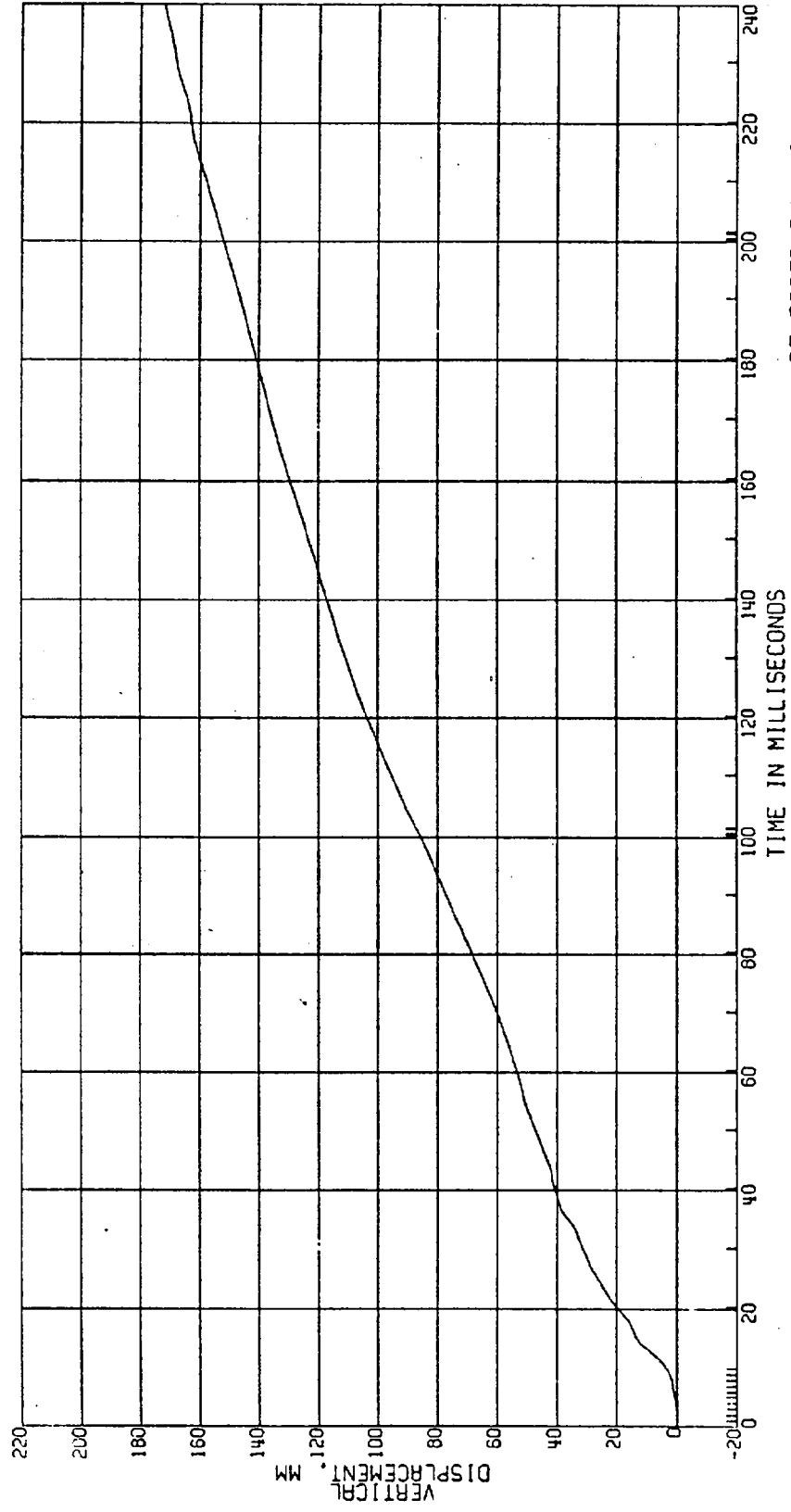
(2ND INTEGRAL PASS-SIDE ACCELERATION)



RELEASED BY: 021

50 PROCESSED 11 DE 84 19:20

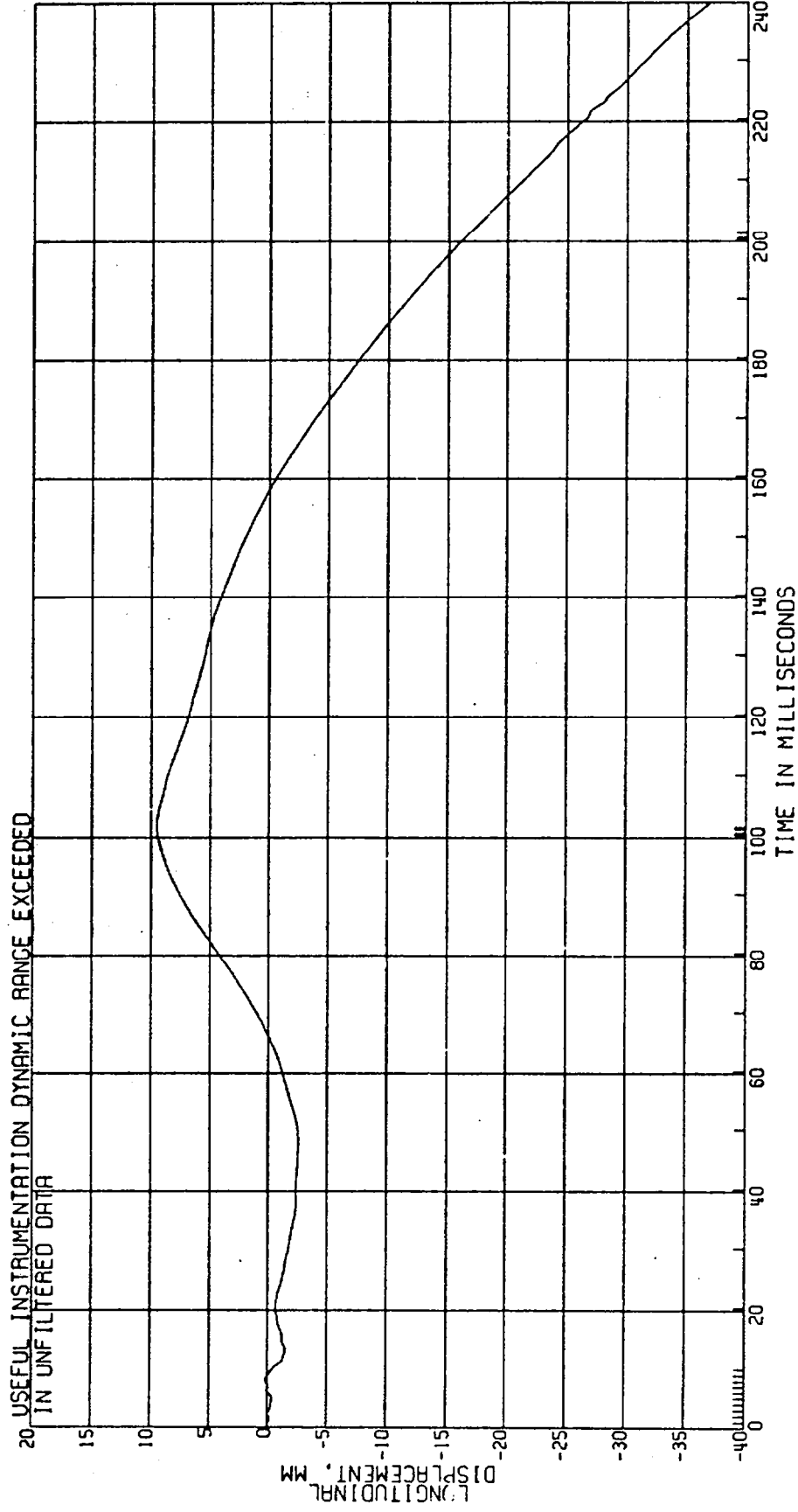
CG1098 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 42
3865-840
F.B. CC453 3JC77 STRUCK VEH COMPUTED RT.FRT.DOOR-POINT D DISPLACEMENT TEST DATE:12-10-84
A-D DATA SAE CLASS 180 (2ND INTEGRAL PASS-SIDE ACCELERATION)



RELEASED BY: J21

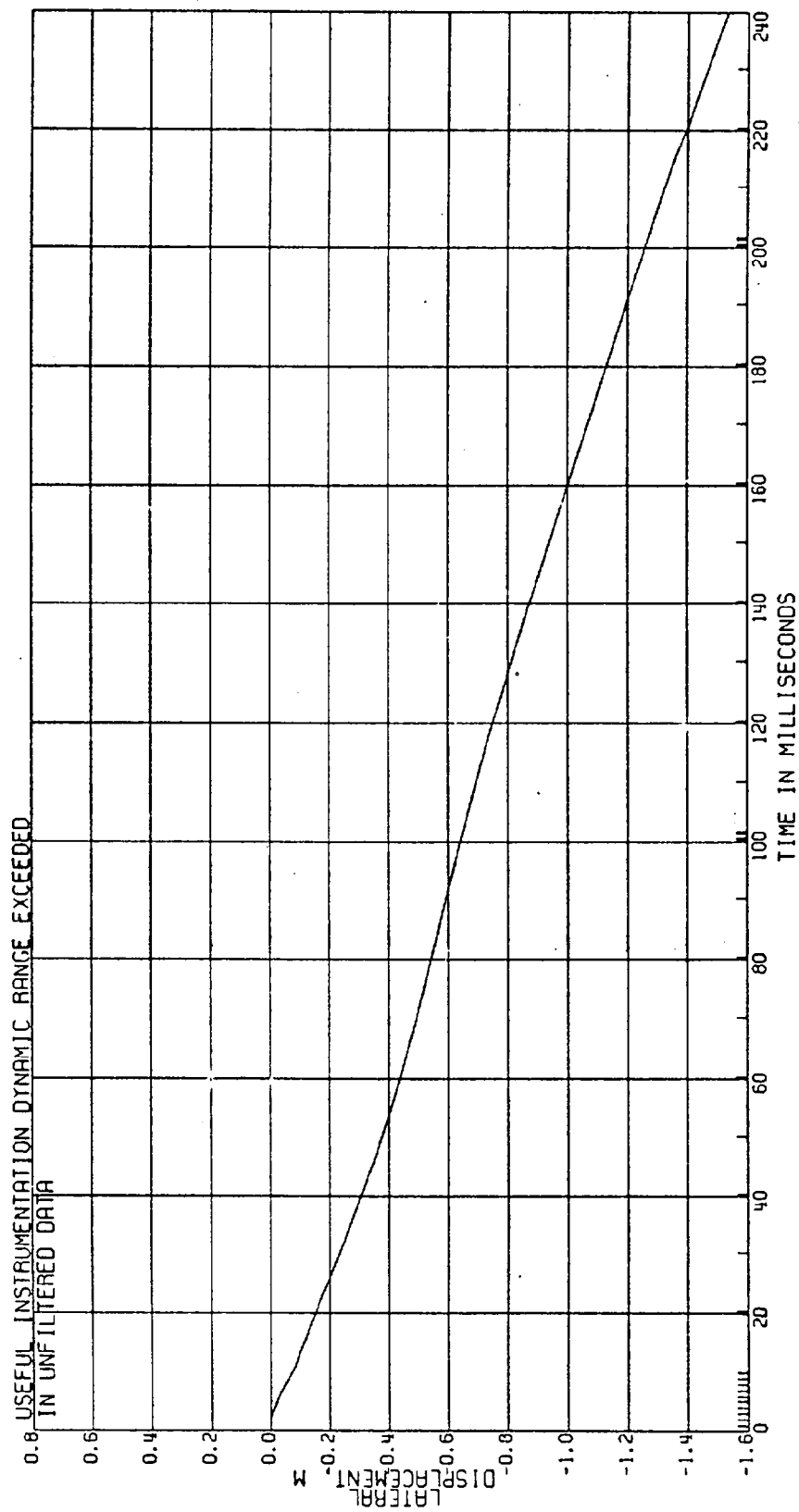
53 PROCESSED 11 DE 84 19:21

CG1098 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 4/3
3865-840
F.B. CC453 3JC77 STRUCK VEH COMPUTED RT.FRT.DOOR-POINT C' DISPLACEMENT TEST DATE:12-10-84
A-D DATA SAE CLASS 180 (2ND INTEGRAL PASS-SIDE ACCELERATION)



RELEASED BY: J21
56 PROCESSED 11 DE 84 19:22

CG109B RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 44
3865-840
F.B. CC453 3JC77 STRUCK VEH COMPUTED RT.FRT.DOOR-POINT C' DISPLACEMENT TEST DATE:12-10-84
A-D DATA SAE CLASS 180 (2ND INTEGRAL PASS-SIDE ACCELERATION)



RELEASED BY: 0-21
59 PROCESSED 11 DE 84 19:22

CG109B RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE

40.8KM/H FIGURE 4/5

3865-840

F.B. CC453 3JC77 STRUCK VEH

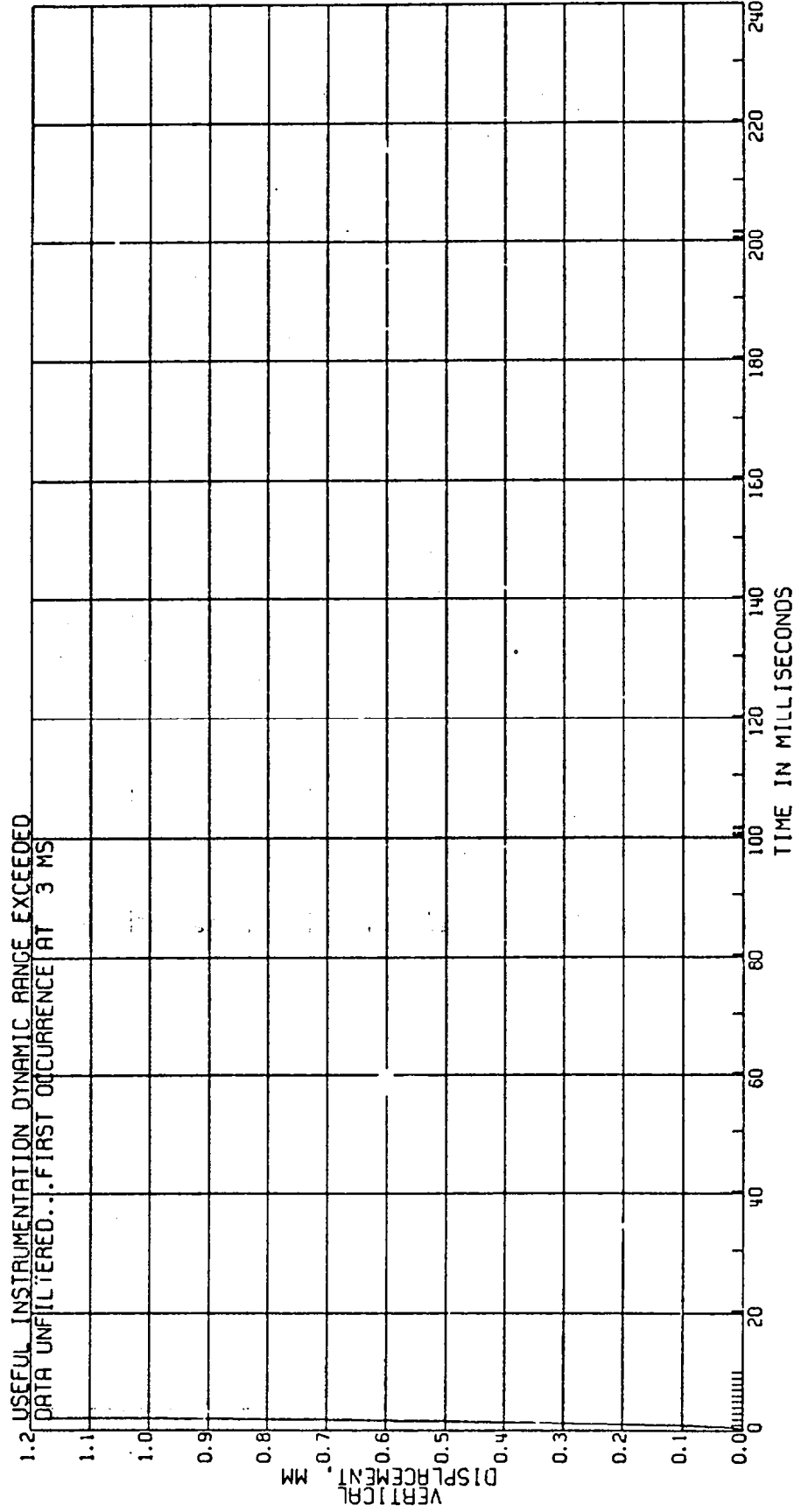
COMPUTED RT.FRT.DOOR-POINT C' DISPLACEMENT

TEST DATE: 12-10-84

A-D DATA SAE CLASS 180

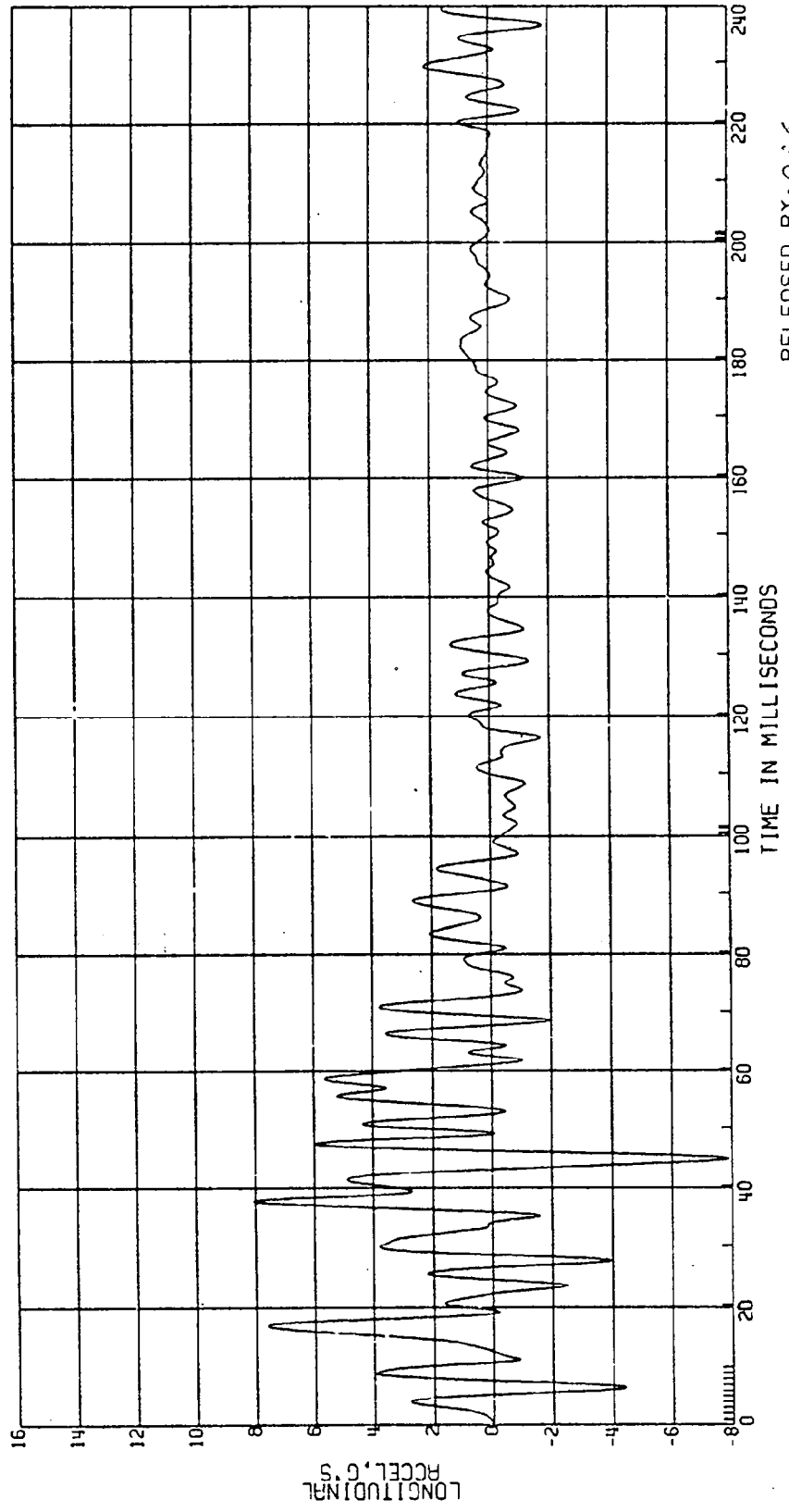
(2ND INTEGRAL PASS-SIDE ACCELERATION)

(NOT USED IF NOTED BELOW)



RELEASED BY: 2-1-1
62 PROCESSED 11 DE 84 19:32

CG109B RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 46
3865-840
F.B. CC453 3JC77 STRUCK VEH
A-D DATA SAE CLASS 60 TEST DATE: 12-10-84

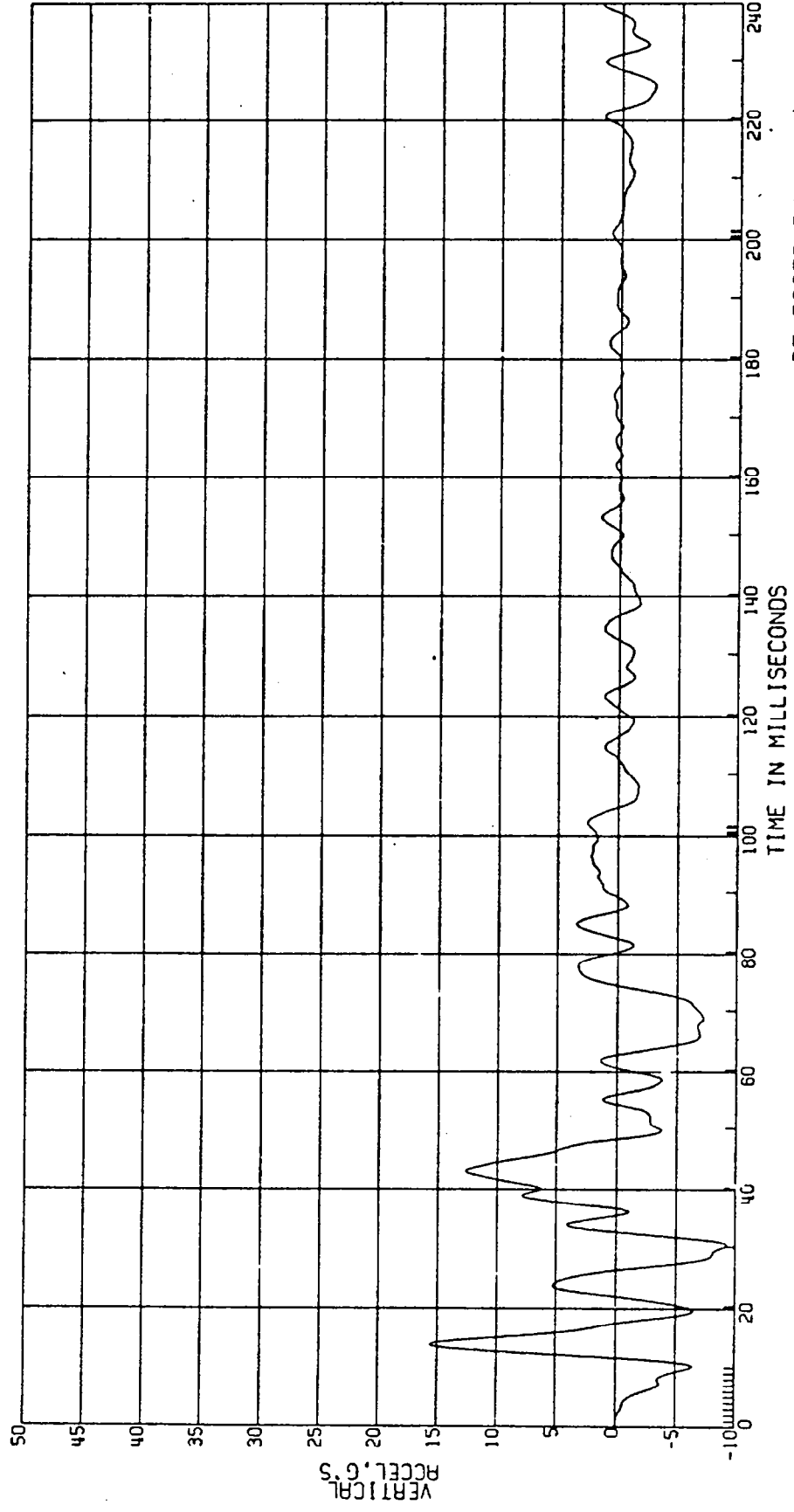


C61098 RIGHT SIDE IMPACT
3865-840
F.B. CC453 3JC77 STRUCK VEH
A-D DATA SHE CLASS 60

MOVING BARRIER TO PARKED VEHICLE
DR-SIDE FLOOR PAN ACCEL.

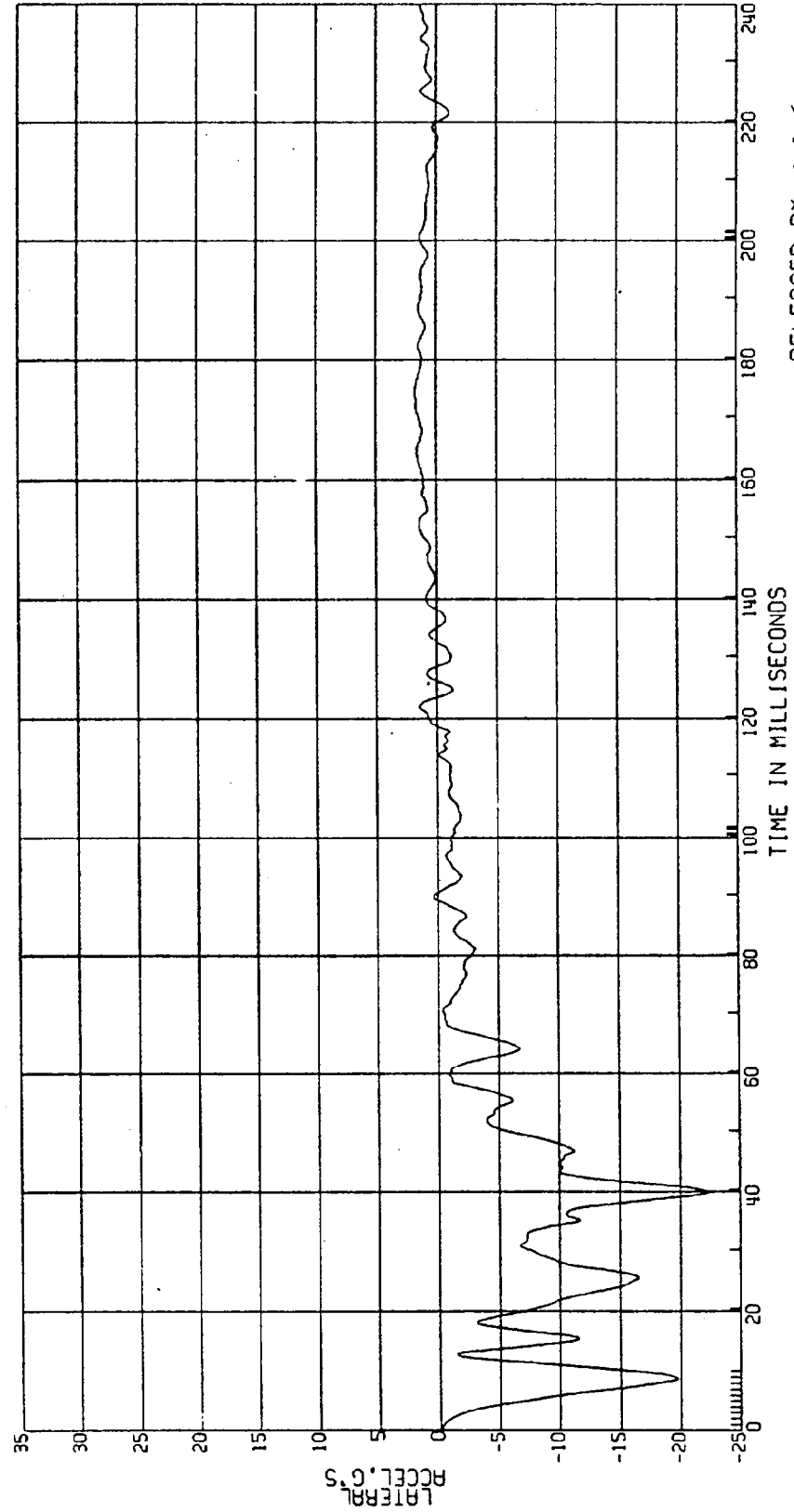
40.8KM/H FIGURE 477

TEST DATE: 12-10-84



RELEASED BY: G. J. A
78 PROCESSED 11 DE 84 19:35

CG109B RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 48
3865-840
F.B. CC453 3JC77 STRUCK VEH
A-D DATA SAE CLASS 60
DR-SIDE FLOOR PAN ACCEL.
TEST DATE: 12-10-84



C61098 RIGHT SIDE IMPACT

3865-840

F.B. CC453 3JC77 STRUCK VEH

A-D DATA SAE CLASS 180

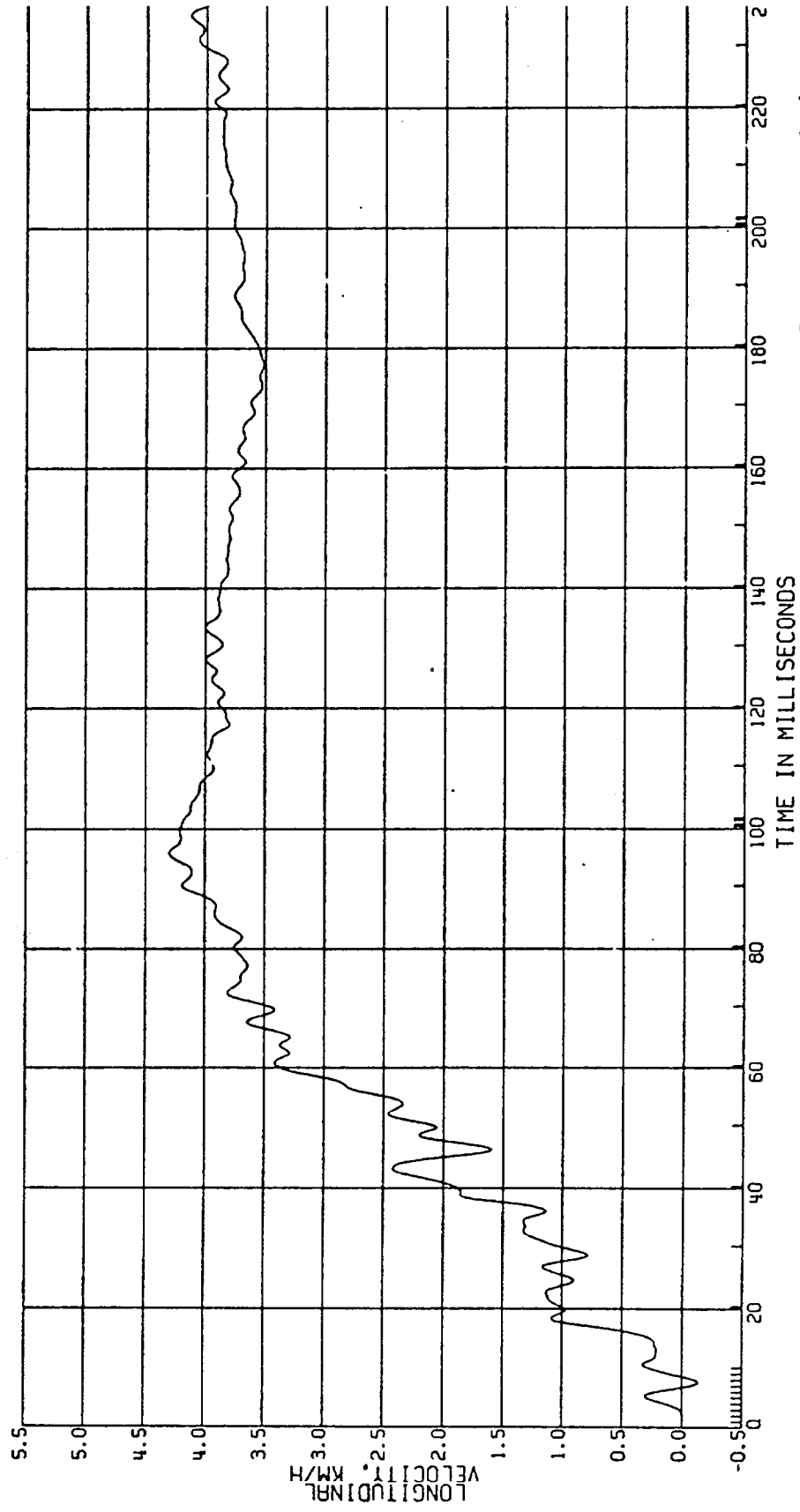
MOVING BARRIER TO PARKED VEHICLE

40.8KM/H FIGURE 49

COMPUTED FLOOR PAN VELOCITY

TEST DATE: 12-10-8

(1ST INTEGRAL DR-SIDE ACCELERATION)

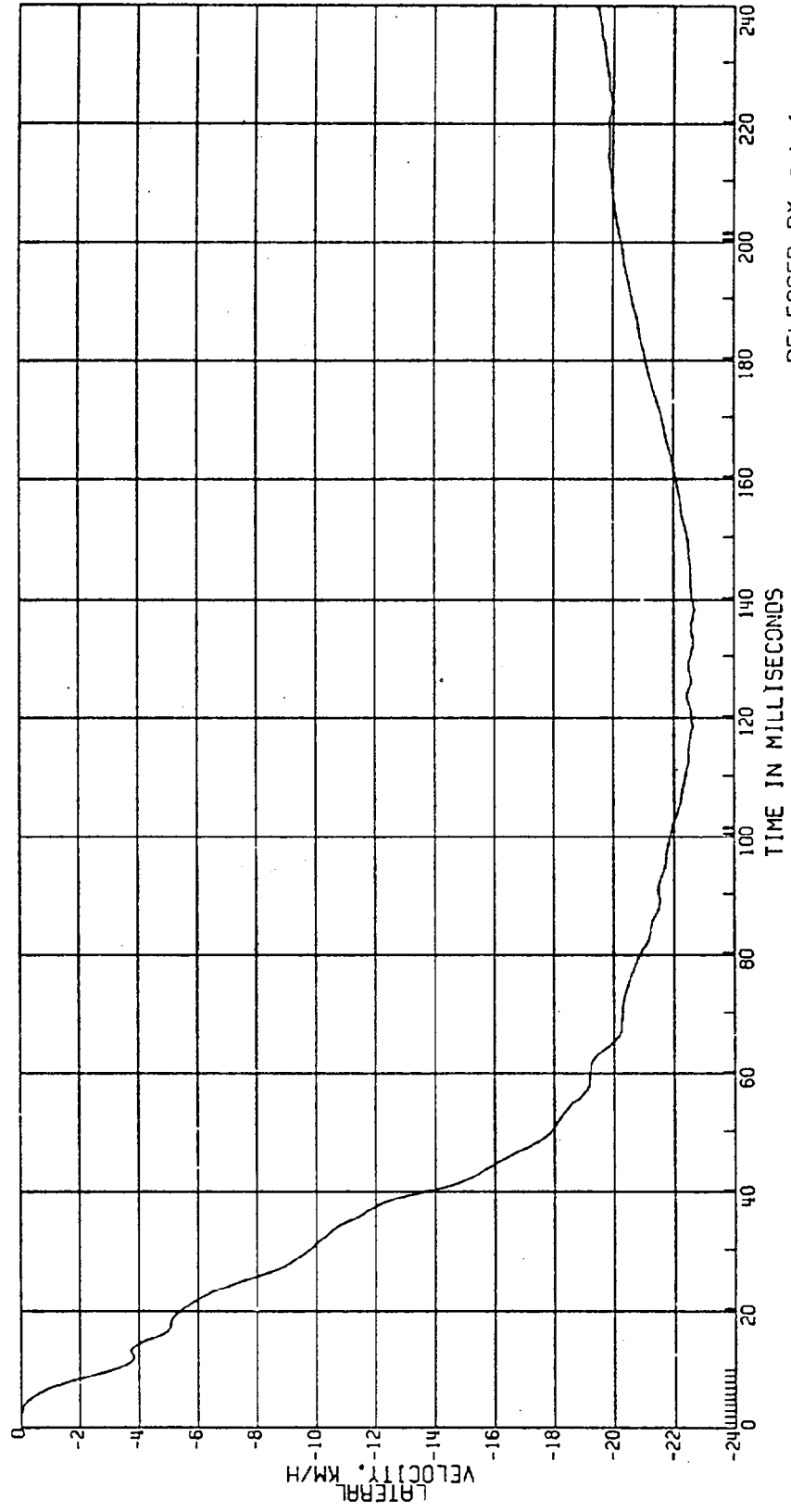


RELEASED BY: 0.5.5
67 PROCESSED 11 DE 84 19:33

CG1098 RIGHT SIDE IMPACT
3865-840
F.B. CC453 3JC77 STRUCK VEH
A-D DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 50
COMPUTED FLOOR PAN VELOCITY
TEST DATE: 12-10-84

(1ST INTEGRAL DR-SIDE ACCELERATION)



RELEASED BY: 0217
76 PROCESSED 11 DE 84 19:34

CG1098 RIGHT SIDE IMPACT

3865-840

F.B. CC453 3JC77 STRUCK VEH

A-D DATA SAE CLASS 180

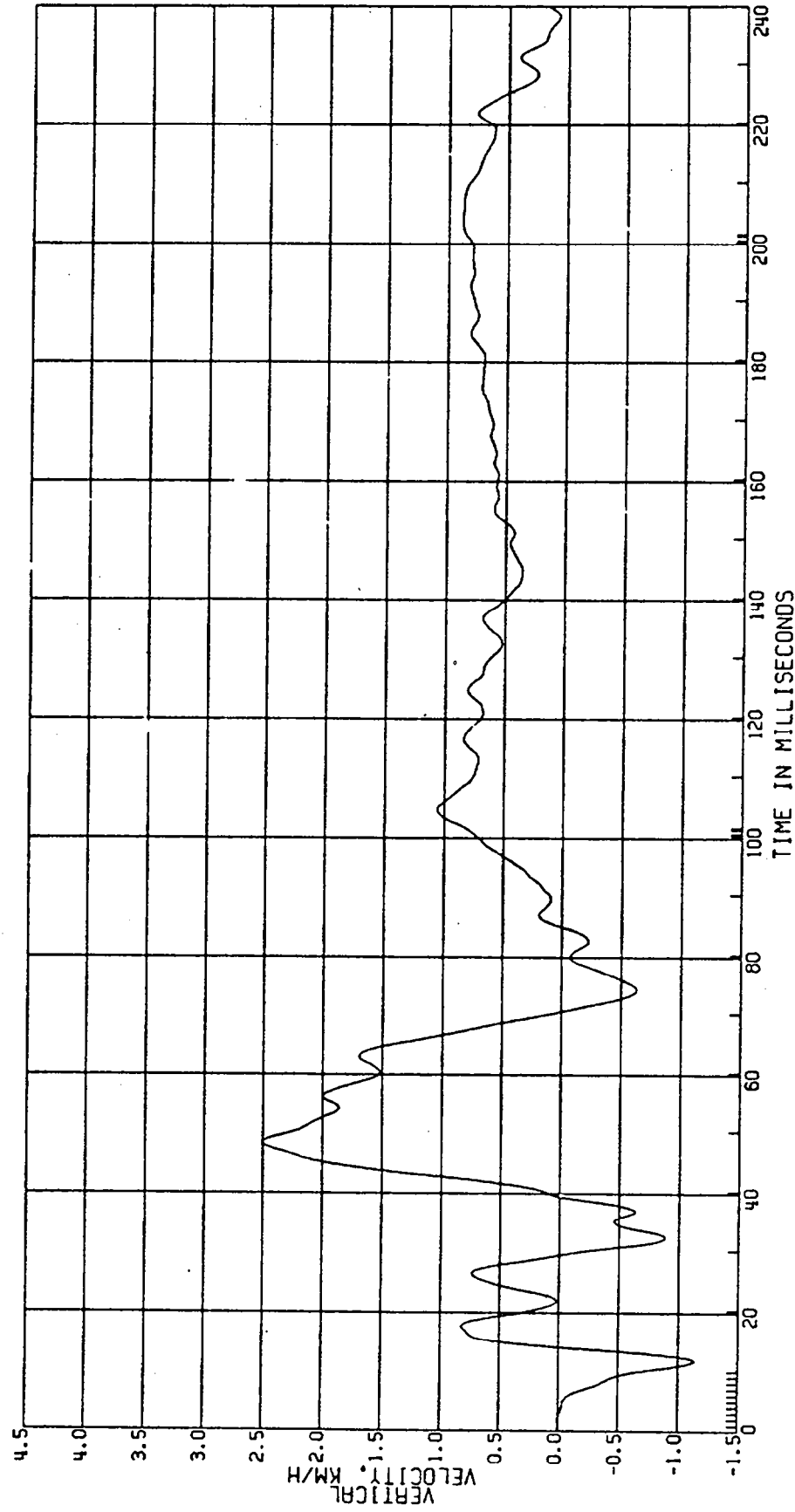
MOVING BARRIER TO PARKED VEHICLE

40.8KM/H FIGURE 51

COMPUTED FLOOR PAN VELOCITY

TEST DATE:12-10-84

(1ST INTEGRAL DR-SIDE ACCELERATION)



RELEASED BY: O&A

79 PROCESSED 11 DE 84 19:35

CG109B RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE

40.8KM/H FIGURE 52

3865-840

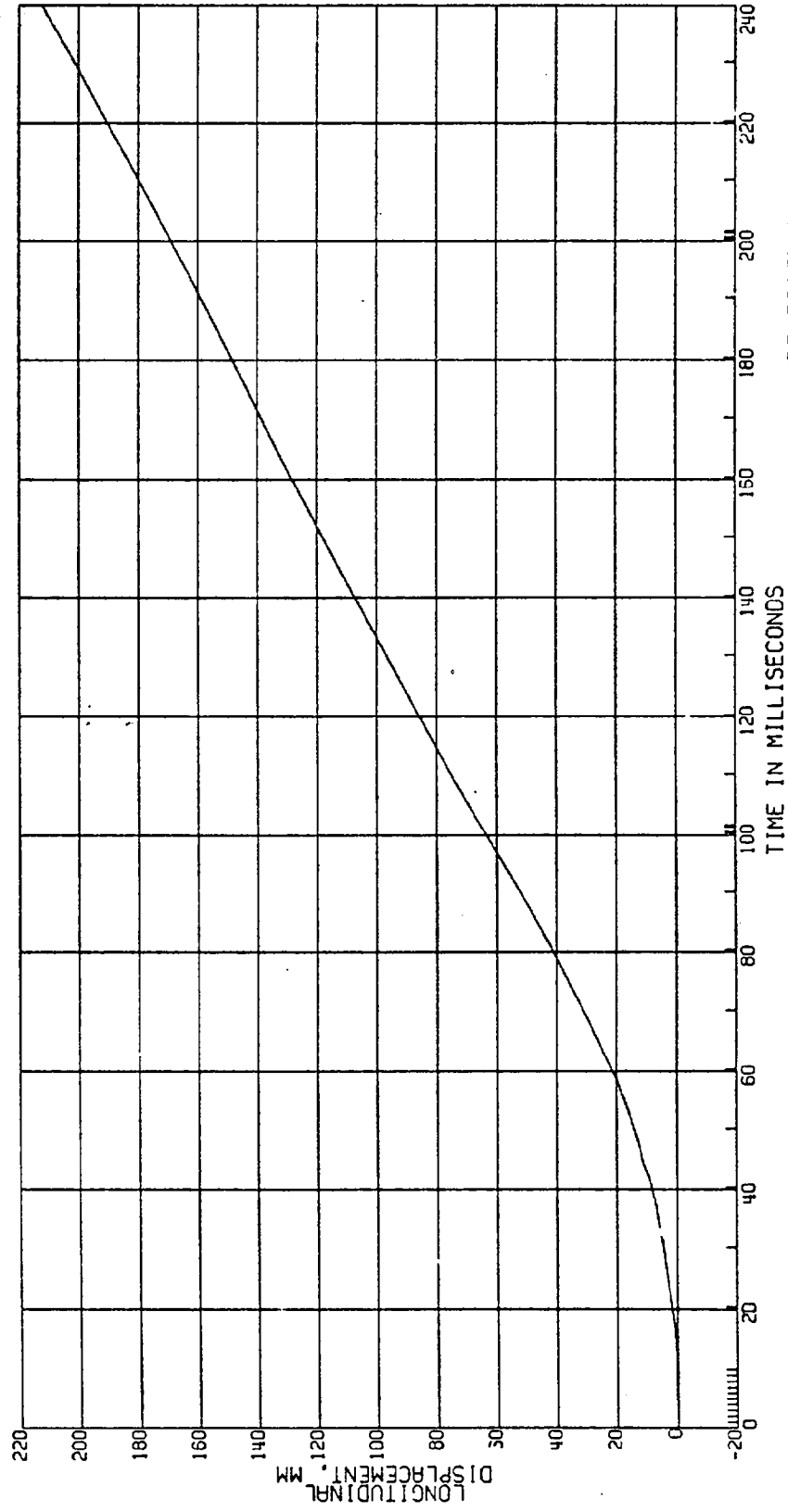
F.B. CC453 3JC77 STRUCK VEH

COMPUTED FLOOR PAN DISPLACEMENT

TEST DATE: 12-10-84

A-D DATA SAE CLASS 180

(2ND INTEGRAL OR-SIDE ACCELERATION)

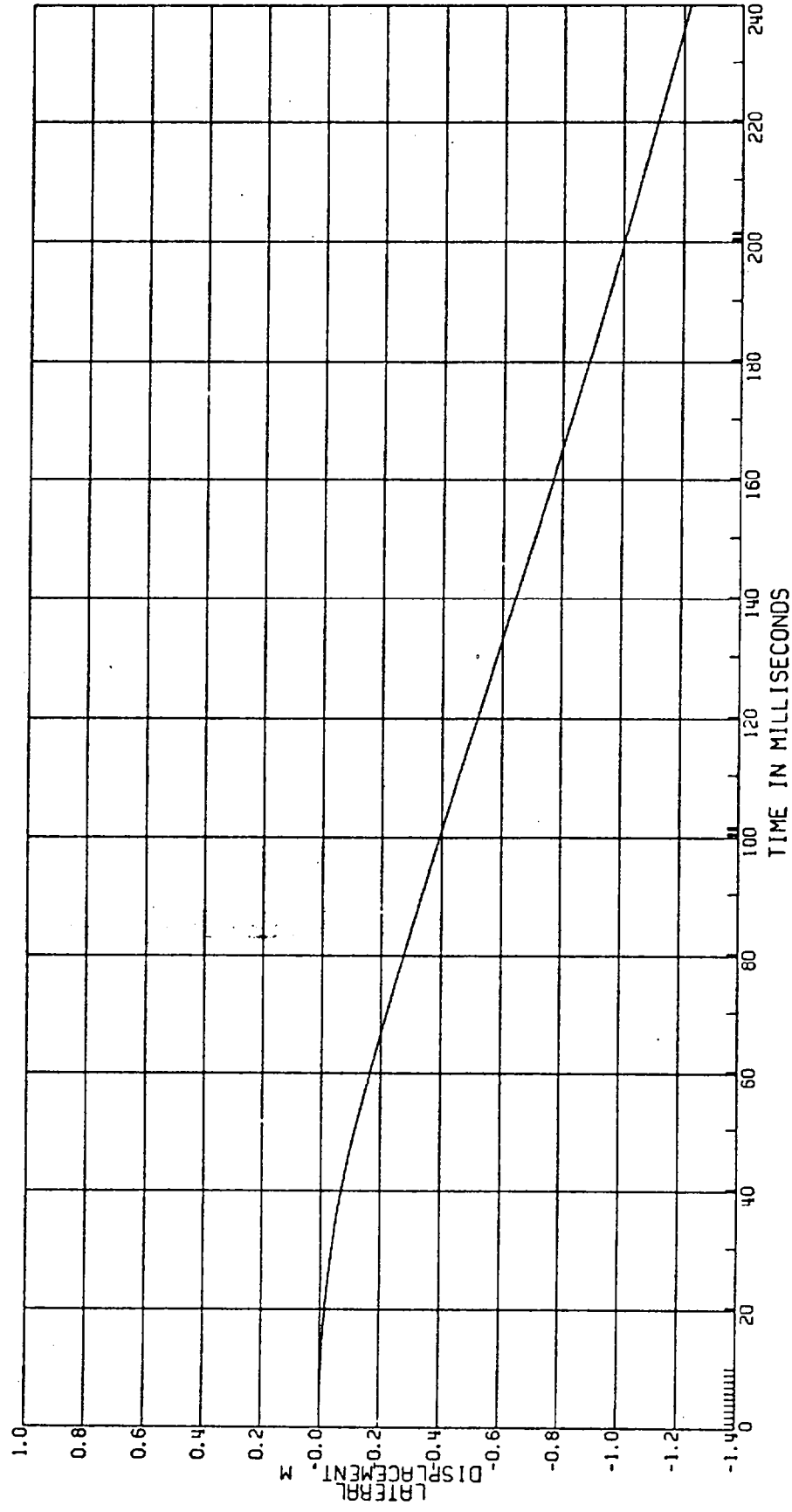


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68 PROCESSED 11 DE 84 19:33

C61098 RIGHT SIDE IMPACT
3865-840
F.B. CC453 3JC77 STRUCK VEH
A-D DATA SAE CLASS 180

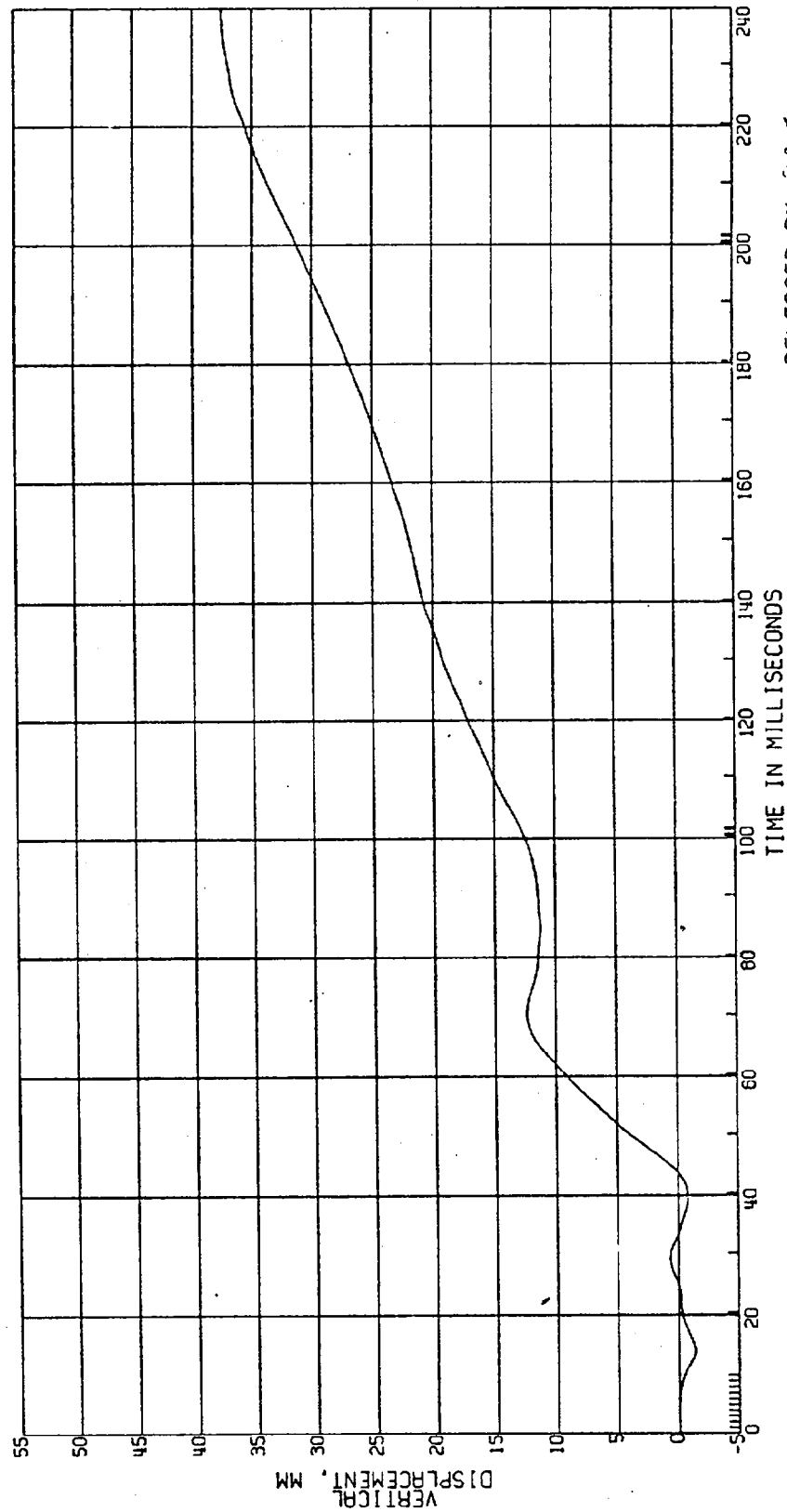
MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 53
COMPUTED FLOOR PAN DISPLACEMENT
(2ND INTEGRAL DR-SIDE ACCELERATION)

TEST DATE: 12-10-84



RELEASED BY: [Signature]
77 PROCESSED 11 DE 84 19:35

C61098 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 54
3865-840
F.B. CC453 3JC77 STRUCK VEH
A-D DATA SAE CLASS 180
COMPUTED FLOOR PAN DISPLACEMENT
(2ND INTEGRAL DR-SIDE ACCELERATION)
TEST DATE:12-10-84



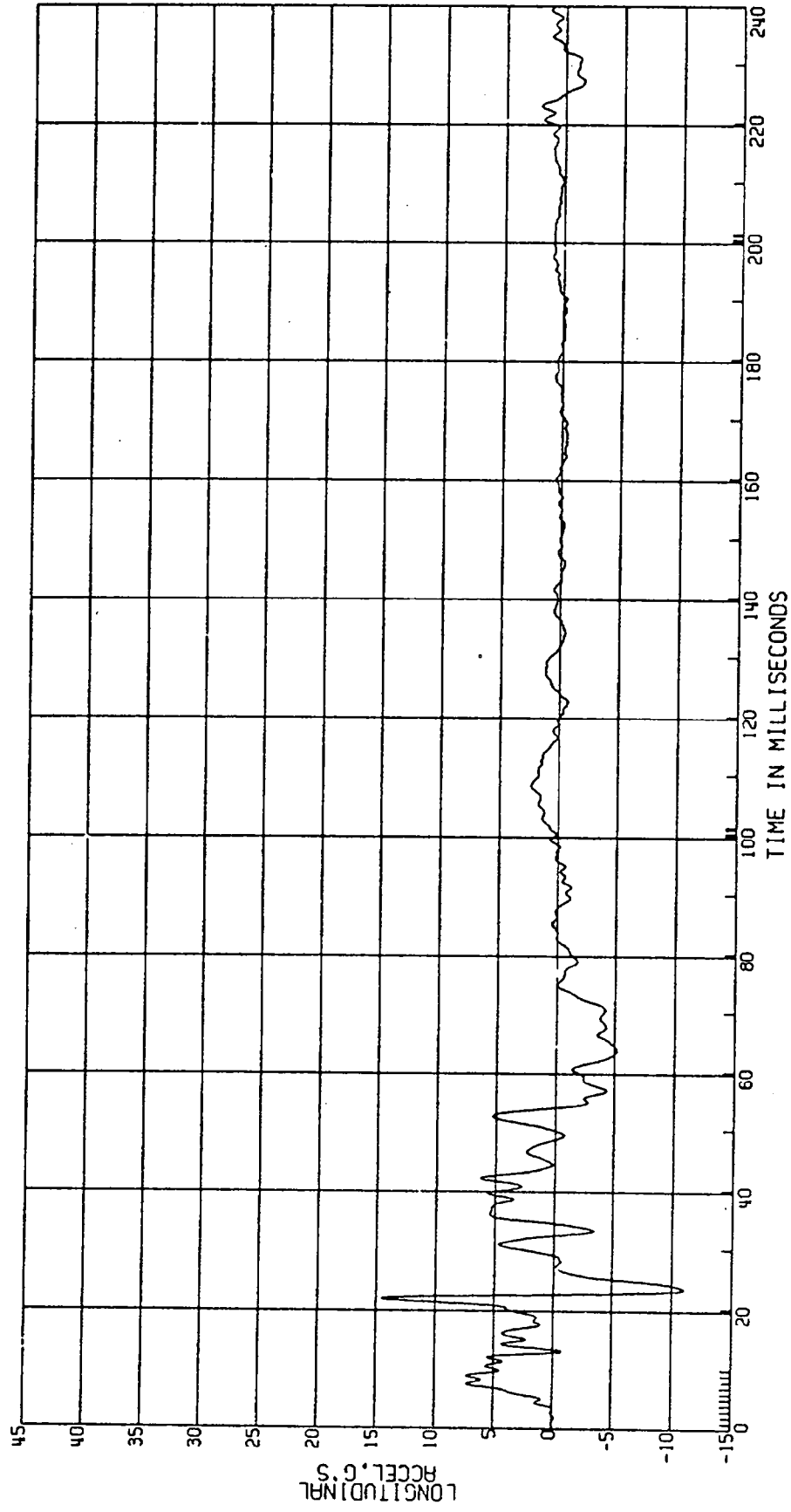
RELEASED BY: 2-3-87
80 PROCESSED 11 DE 84 19:35

C6109B RIGHT SIDE IMPACT
3865-840
F.B. CC453 3JC77 STRUCK VEH
A-D DATA SAE CLASS 60

MOVING BARRIER TO PARKED VEHICLE
PASS-SIDE TRUNK ACCEL.

40.8KM/H FIGURE 55

TEST DATE: 12-10-84



RELEASED BY: 041
81 PROCESSED 11 DE 84 19:36

CG109B RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE

40.8KM/H FIGURE 5c

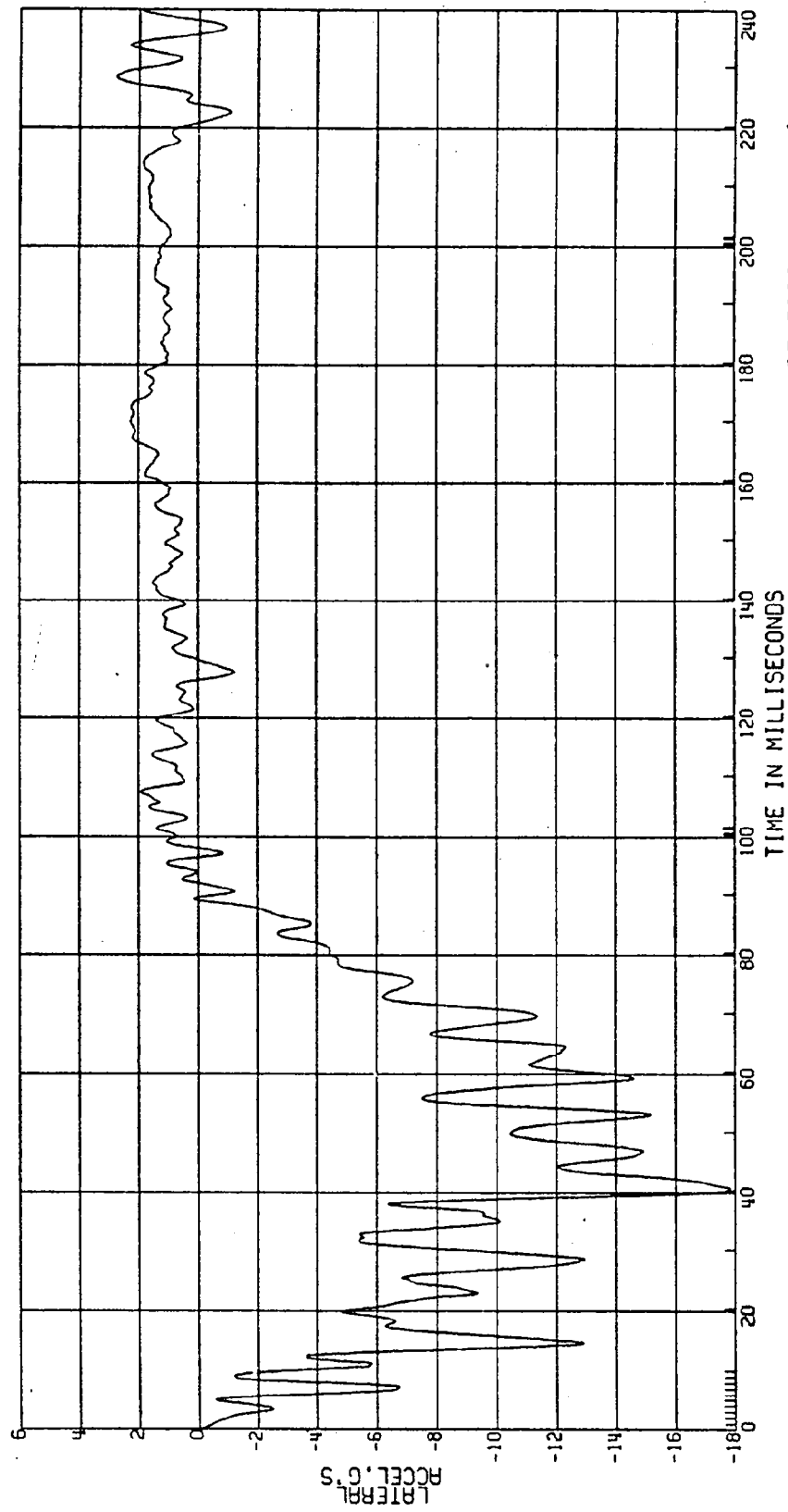
3865-840

F.B. CC453 3JC77 STRUCK VEH

PASS-SIDE TRUNK ACCEL.

TEST DATE: 12-10-84

A-D DATA SAE CLASS .60



RELEASED BY: 7-2-84
84 PROCESSED 11 DE 84 19:36

CG1098 RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE

40.8KM/H FIGURE 67

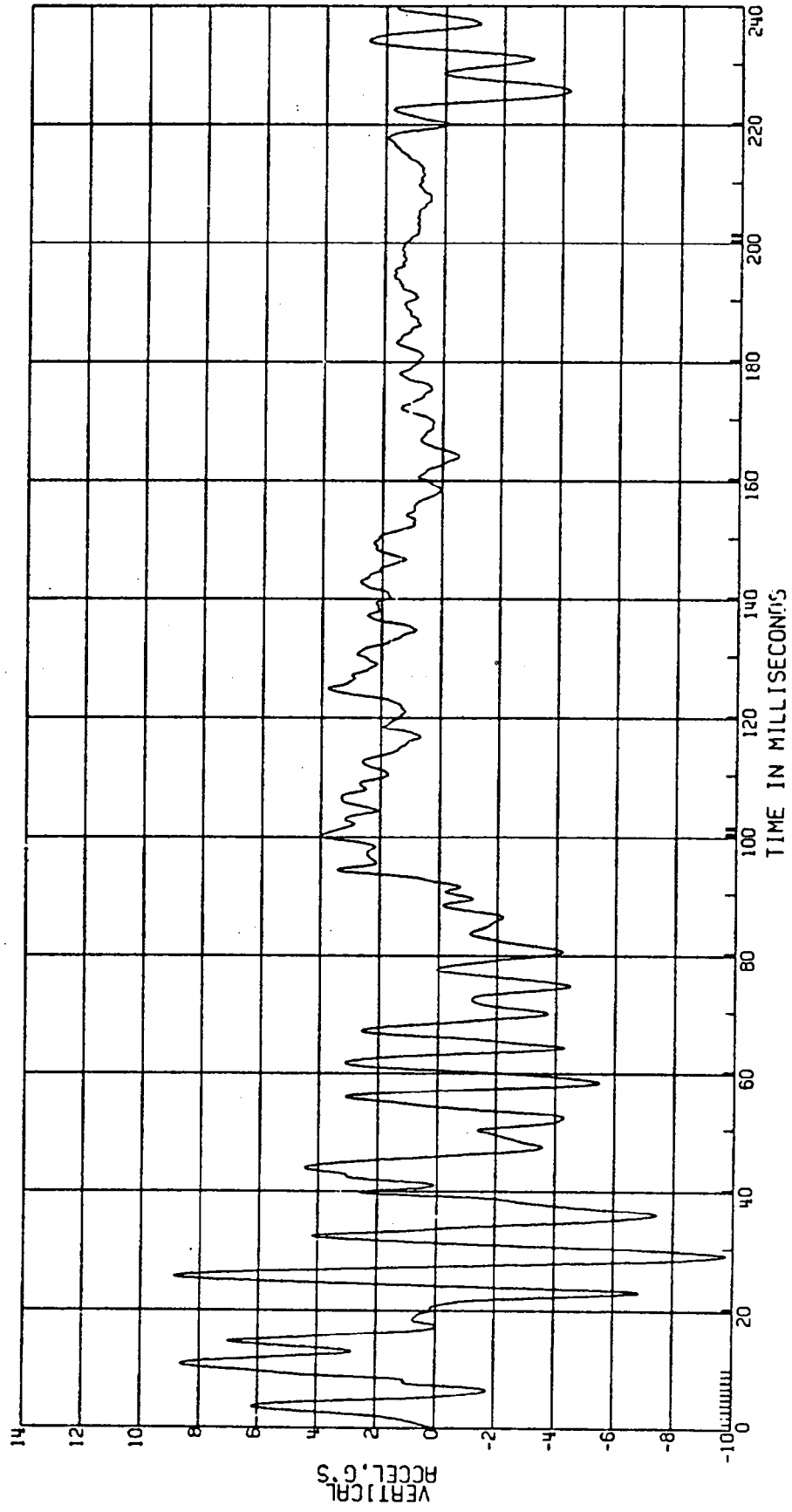
3865-840

F.B. CC453 3JC77 STRUCK VEH

PASS-SIDE TRUNK ACCEL.

A-D DATA SAE CLASS 60

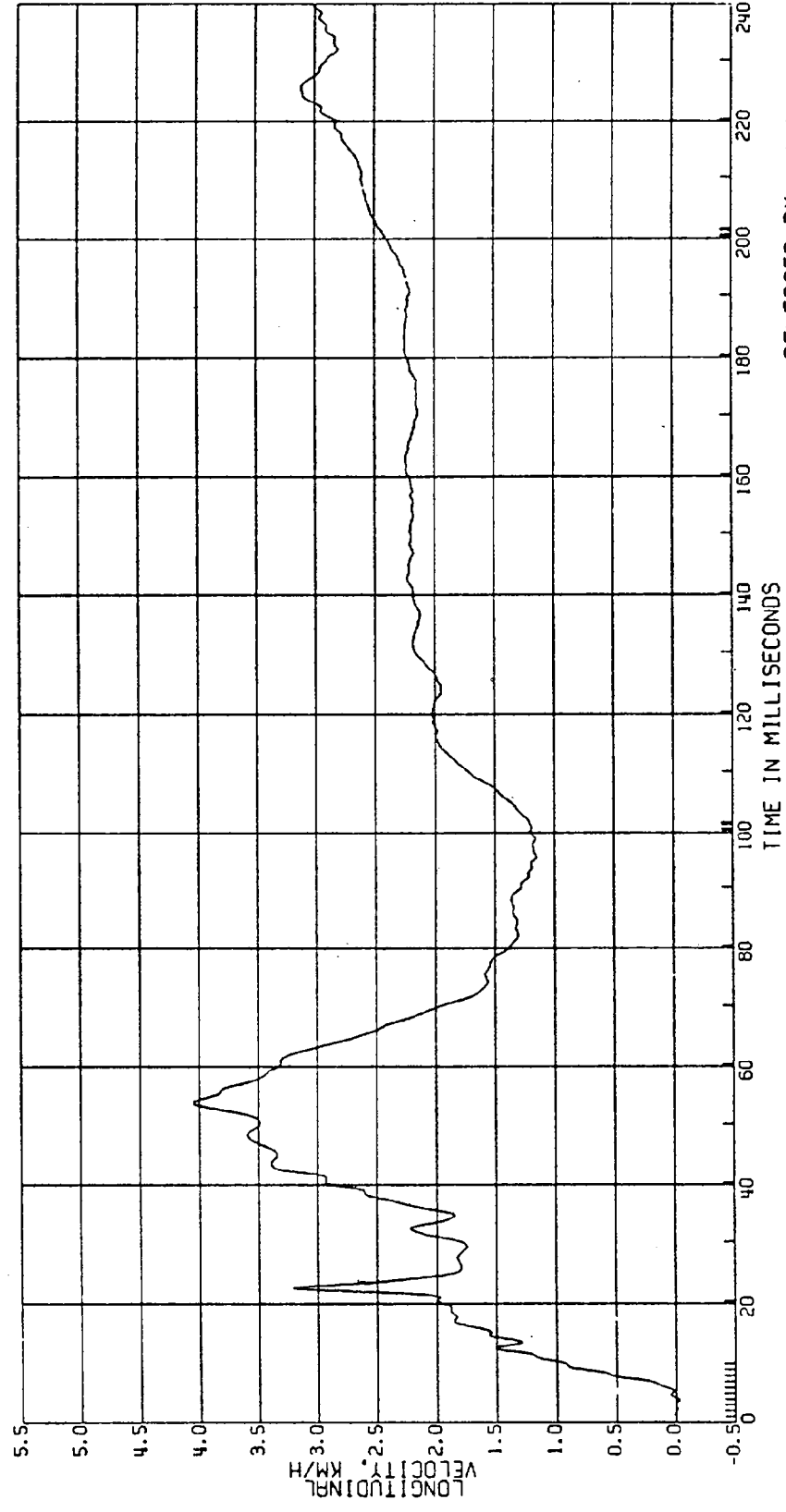
TEST DATE: 12-10-84



RELEASED BY: JJA

87 PROCESSED 11 DE 84 19:37

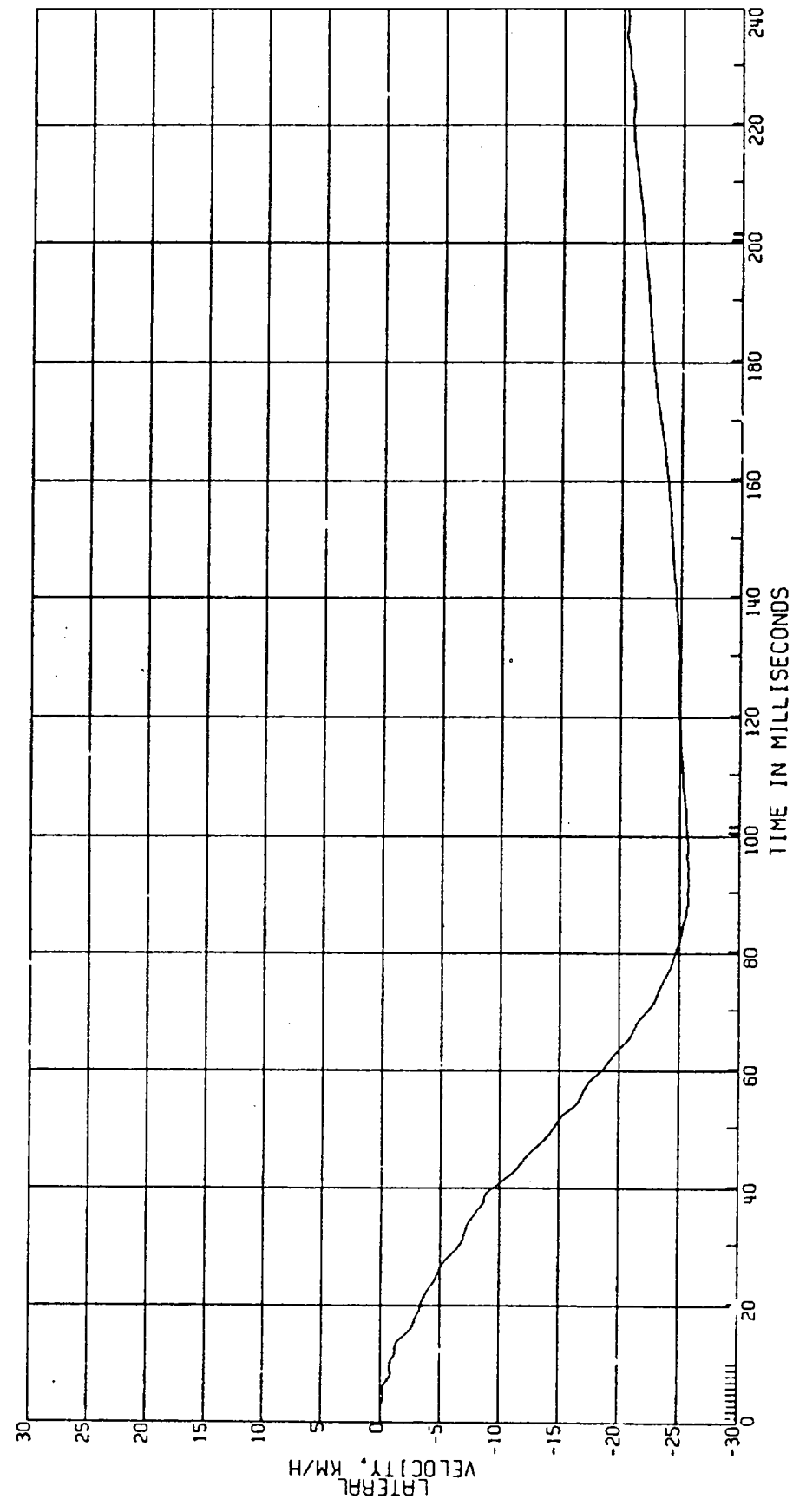
C61098 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 58
3865-340
F.B. CC453 3JC77 STRUCK VEH
A-D DATA SAE CLASS 180
COMPUTED TRUNK VELOCITY
(1ST INTEGRAL PASS-SIDE ACCELERATION)
TEST DATE: 12-10-84



CG1098 RIGHT SIDE IMPACT
3865-840
F.B. CC453 3JC77 STRUCK VEH
A-D DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 59
COMPUTED TRUNK VELOCITY
(1ST INTEGRAL PASS-SIDE ACCELERATION)

TEST DATE:12-10-84



RELEASED BY: 711
85 PROCESSED 11 DE 84 19:36

CG1098 RIGHT SIDE IMPACT
3865-840
F.B. CC453 3JC77 STRUCK VEH
A-D DATA SAE CLASS 180

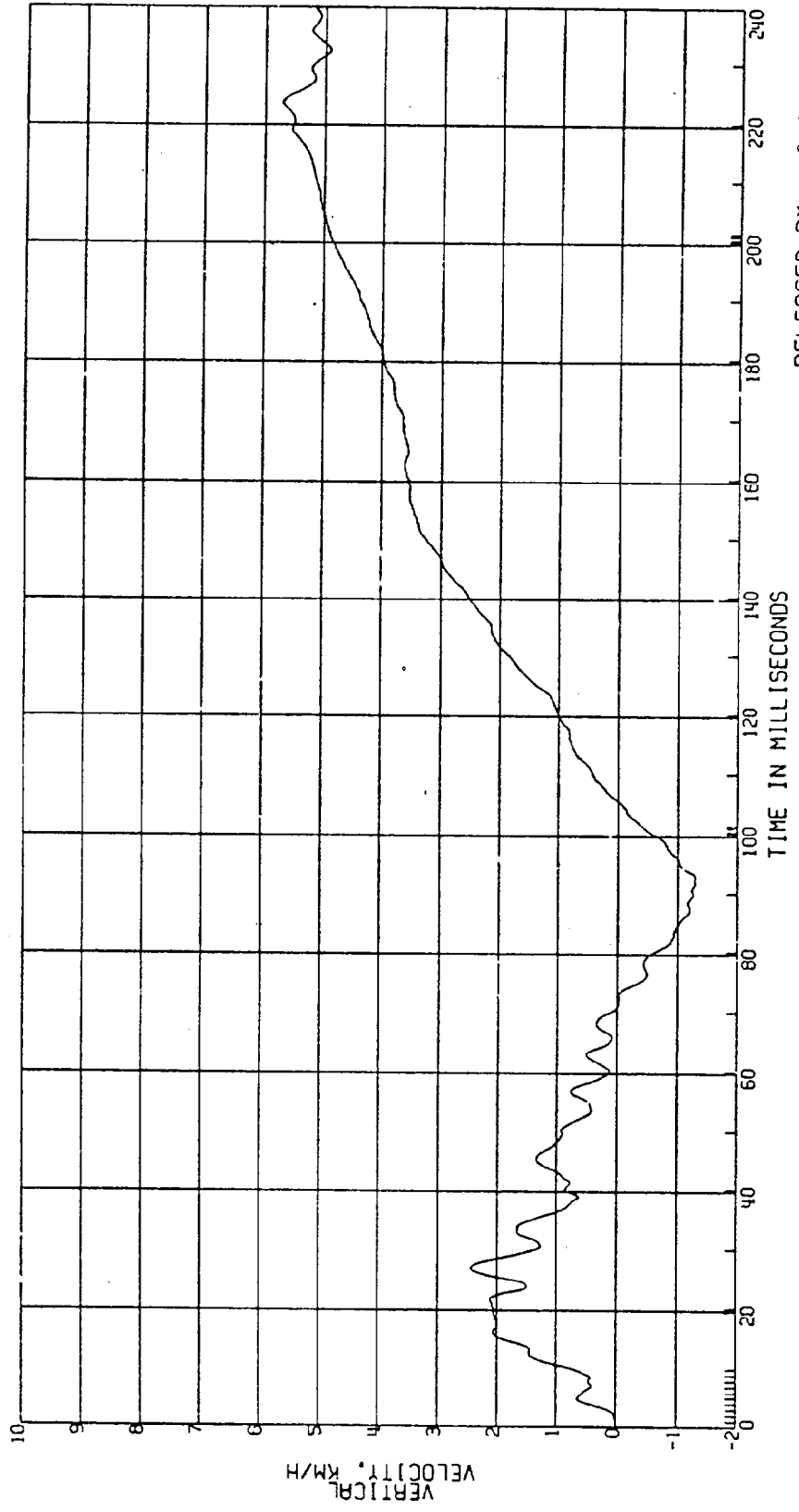
MOVING BARRIER TO PARKED VEHICLE

40.8KM/H FIGURE 60

COMPUTED TRUNK VELOCITY

TEST DATE:12-10-84

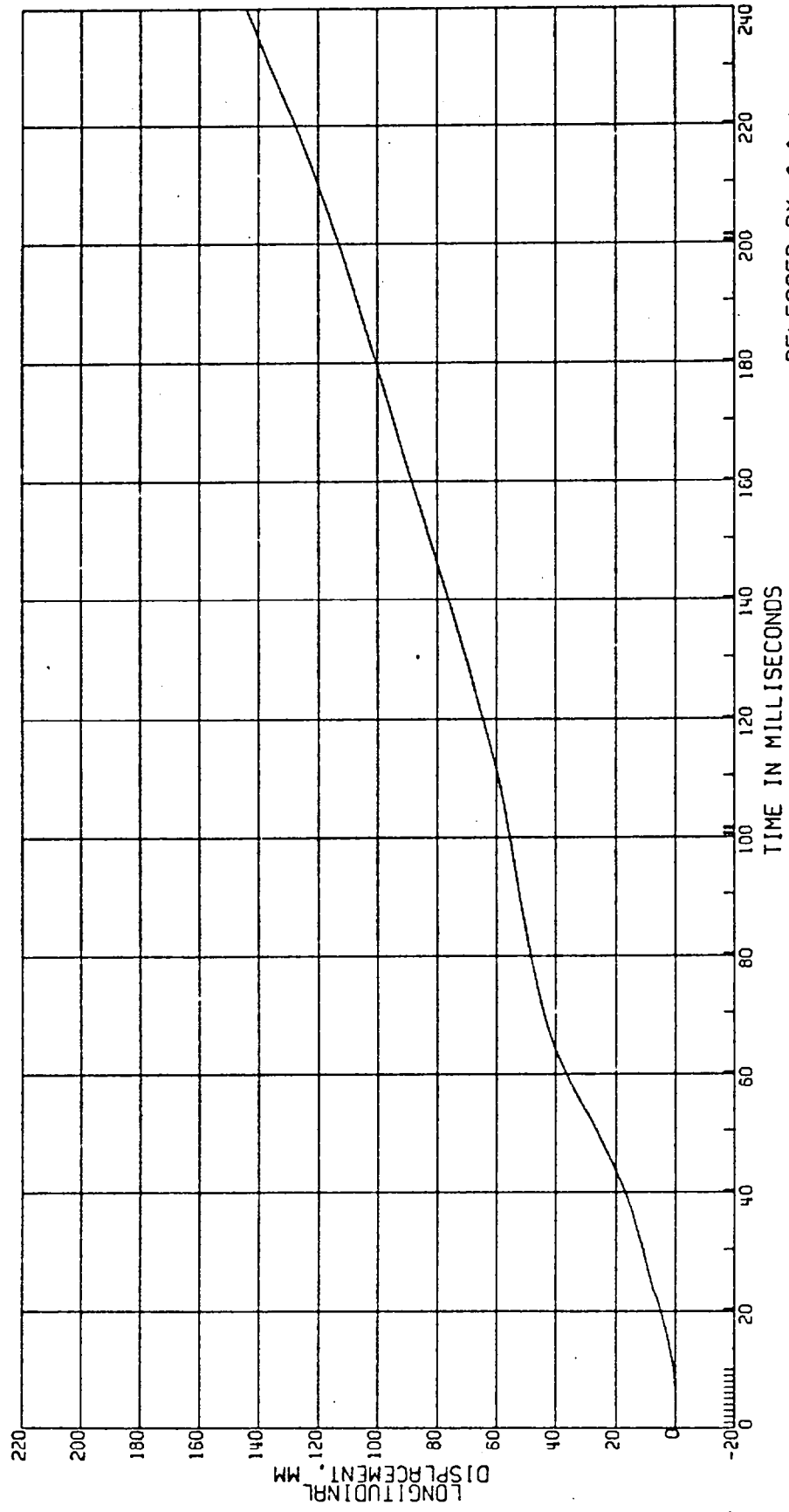
(1ST INTEGRAL PASS--SIDE ACCELERATION)



CG1098 RIGHT SIDE IMPACT
3865-840
F.B. CC453 3JC77 STRUCK VEH
A-D DATA SAE CLASS 180

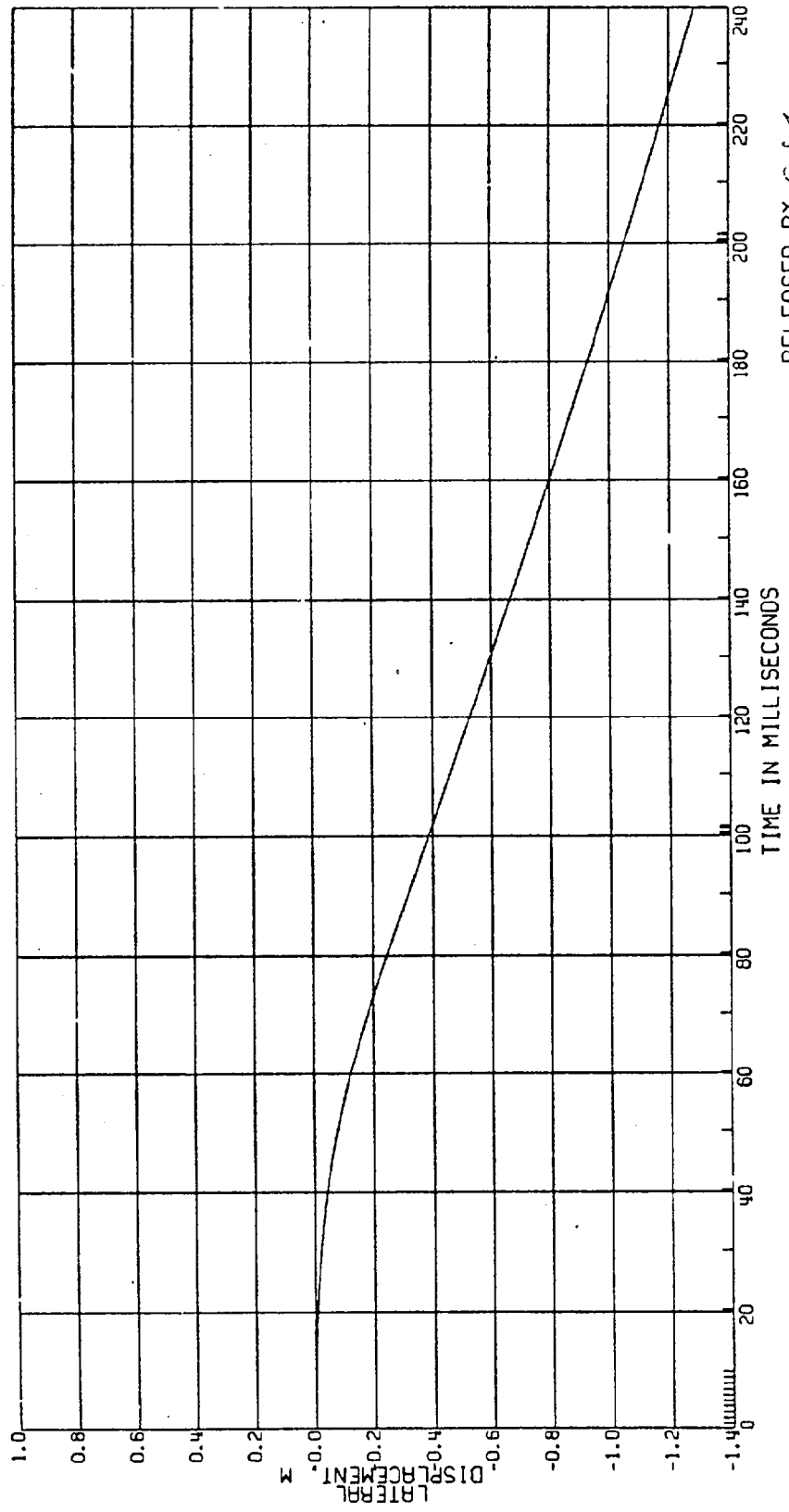
MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE G2
COMPUTED TRUNK DISPLACEMENT
(2ND INTEGRAL PASS-SIDE ACCELERATION)

TEST DATE: 12-10-84



RELEASED BY: JAL
83 PROCESSED 11 DE 84 19:36

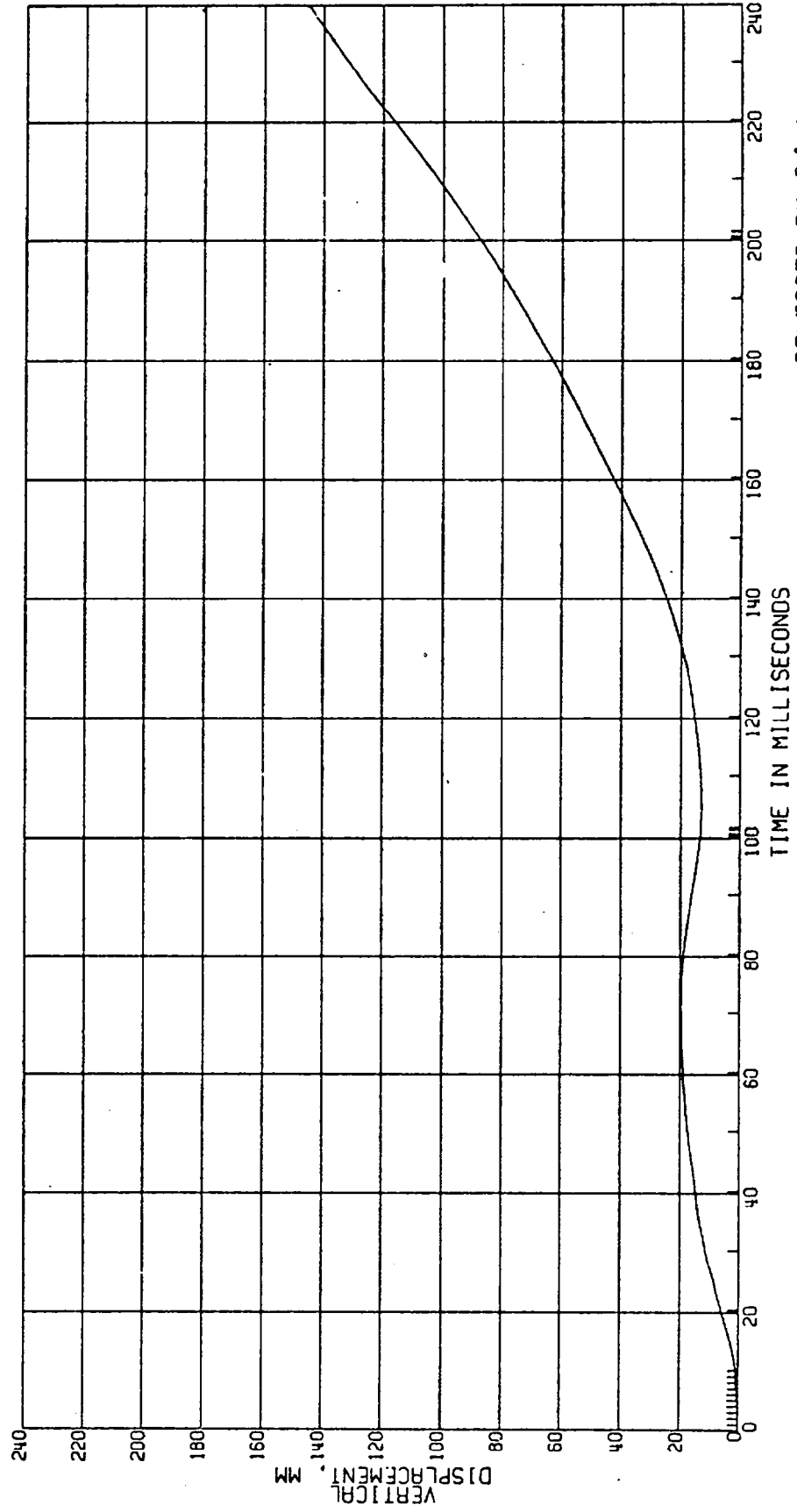
CG1098 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 40.8 KM/H FIGURE G.2
3865-840
F.B. CC453 3JC77 STRUCK VEH TEST DATE: 12-10-84
A-D DATA SAE CLASS 180 (2ND INTEGRAL PASS-SIDE ACCELERATION)



CG1098 RIGHT SIDE IMPACT
3865-840
F.B. CC453 3JC77 STRUCK VEH
A-D DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE G 3
COMPUTED TRUNK DISPLACEMENT
(2ND INTEGRAL PASS-SIDE ACCELERATION)

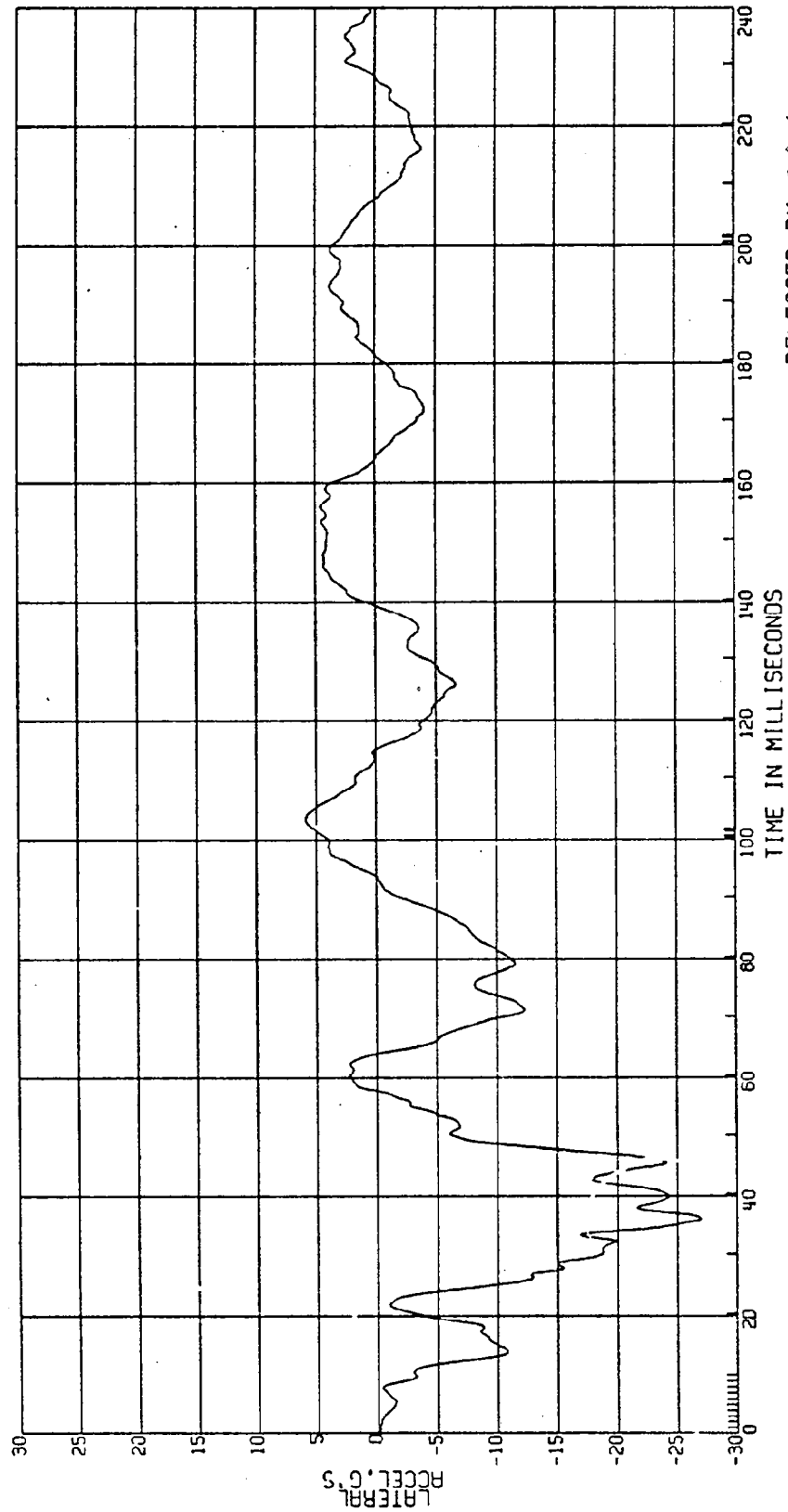
TEST DATE: 12-10-84



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89 PROCESSED 11 DE 84 19:37

CG109B RIGHT SIDE IMPACT
3865-840
F.B. CC453 3JC77 STRUCK VEH
A-D DATA SAE CLASS 60

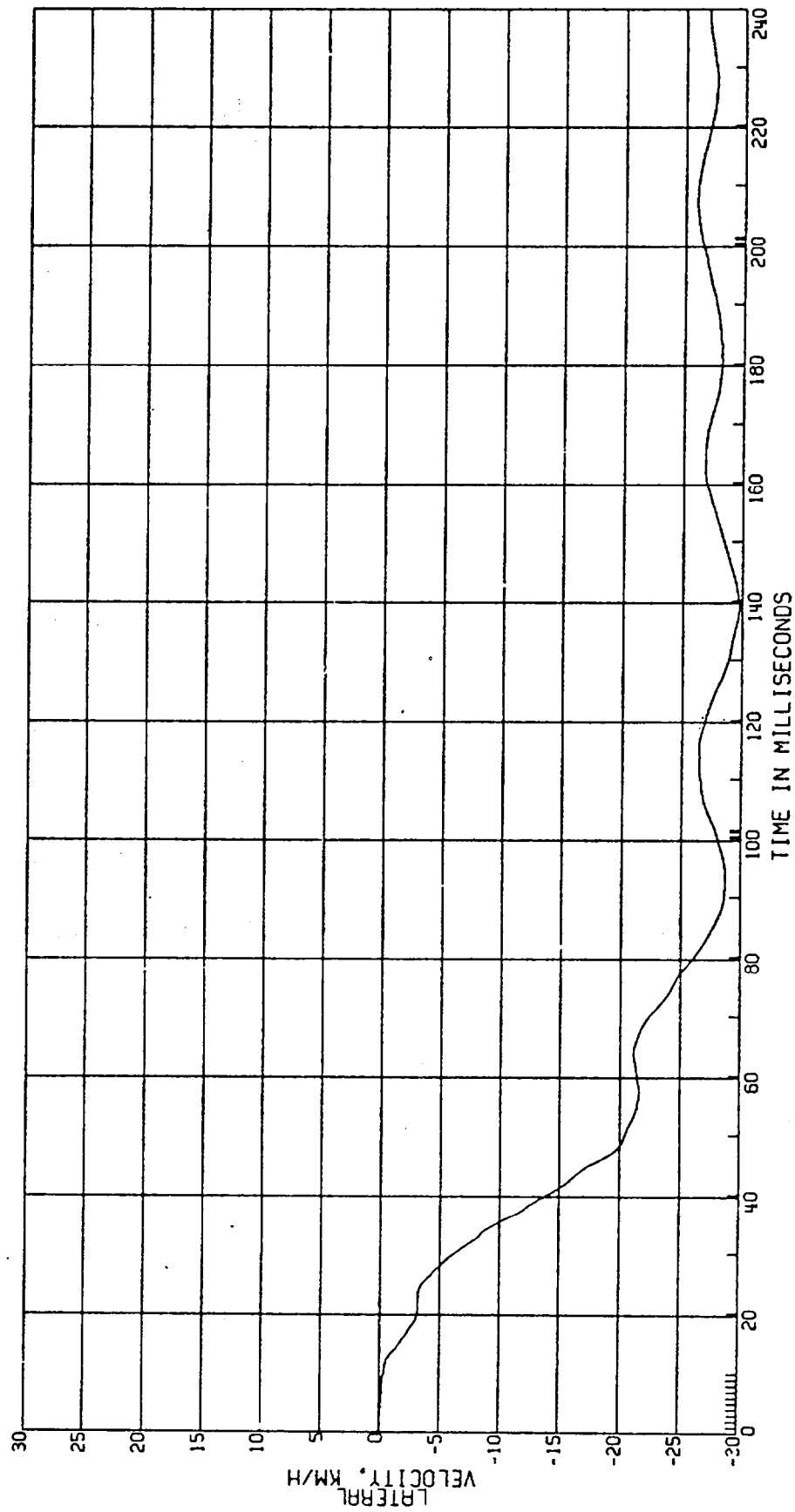
MOVING BARRIER TO PARKED VEHICLE 40.8 KM/H FIGURE 27
DR-SIDE LT.FRT.DOOR - POINT A' ACCEL. TEST DATE: 12-10-84



C61098 RIGHT SIDE IMPACT
3865-840
F.B. CC453 3JC77 STRUCK VEH
A-D DATA SAE CLASS 180

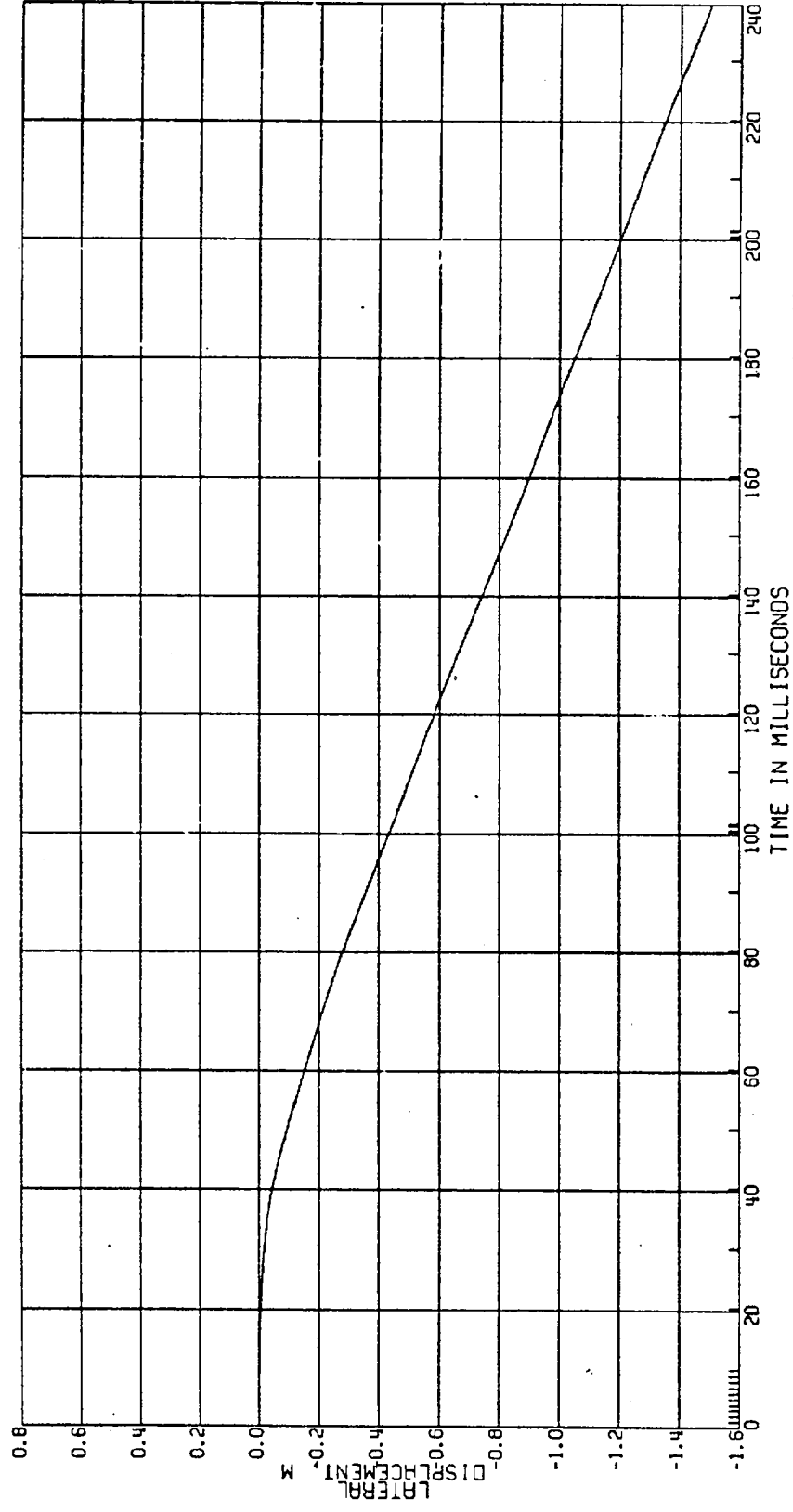
MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 2.5
COMPUTED LT.FRT.DOOR-POINT A' VELOCITY
(1ST INTEGRAL DR-SIDE ACCELERATION)

TEST DATE: 12-10-84



CG1098 RIGHT SIDE IMPACT
3865-840
F.B. CC453 3JC77 STRUCK VEH
A-D DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE 40.8 KM/H FIGURE 66
COMPUTED LT.FRT.DOOR-POINT A' DISPLACEMENT
(2ND INTEGRAL DR-SIDE ACCELERATION) TEST DATE: 12-10-84

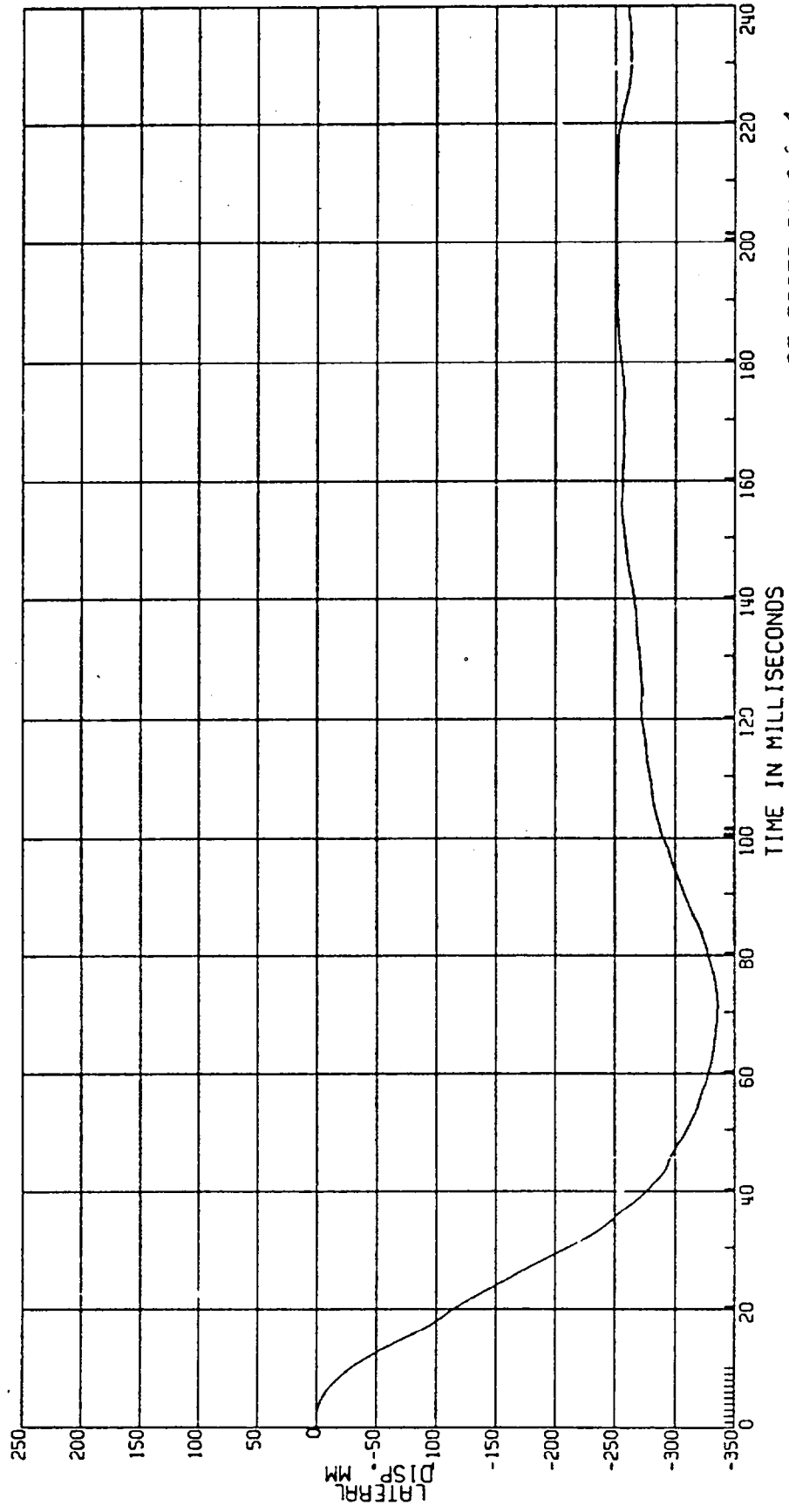


RELEASED BY: 0-2-1
65 PROCESSED 11 DE 84 19:33

CG109B RIGHT SIDE IMPACT
3865-840
F.B. CC453 3JC77 STRUCK VEH
A-D DATA SAE CLASS 60

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 6.7
PASS-SIDE B-PILLAR @ BELTLINE DISP.

TEST DATE: 12-10-84



RELEASED BY: 0-2-1
90 PROCESSED 11 DEC 84 19:37

CG1098 RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE

40.8 KM/H FIGURE G8

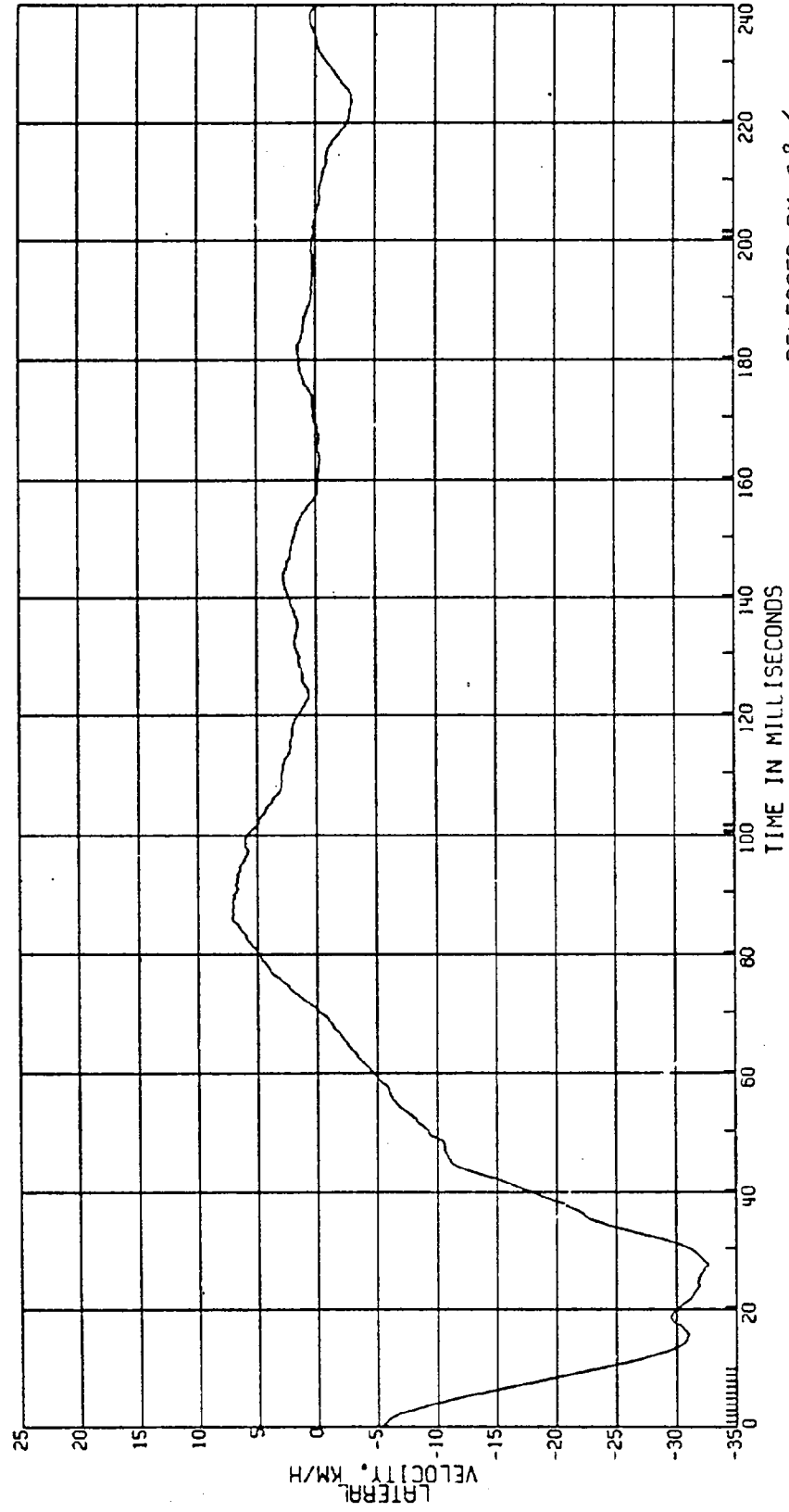
3865-840

F.B. CC453 3JC77 STRUCK VEH

TEST DATE: 12-10-84

A-D DATA SAE CLASS 15

COMPUTED B-PILLAR @ BELTLINE VELOCITY



RELEASED BY: 02-1

91 PROCESSED 11 DE 84 19:37

CG1098 RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE

40.8KM/H FIGURE 69

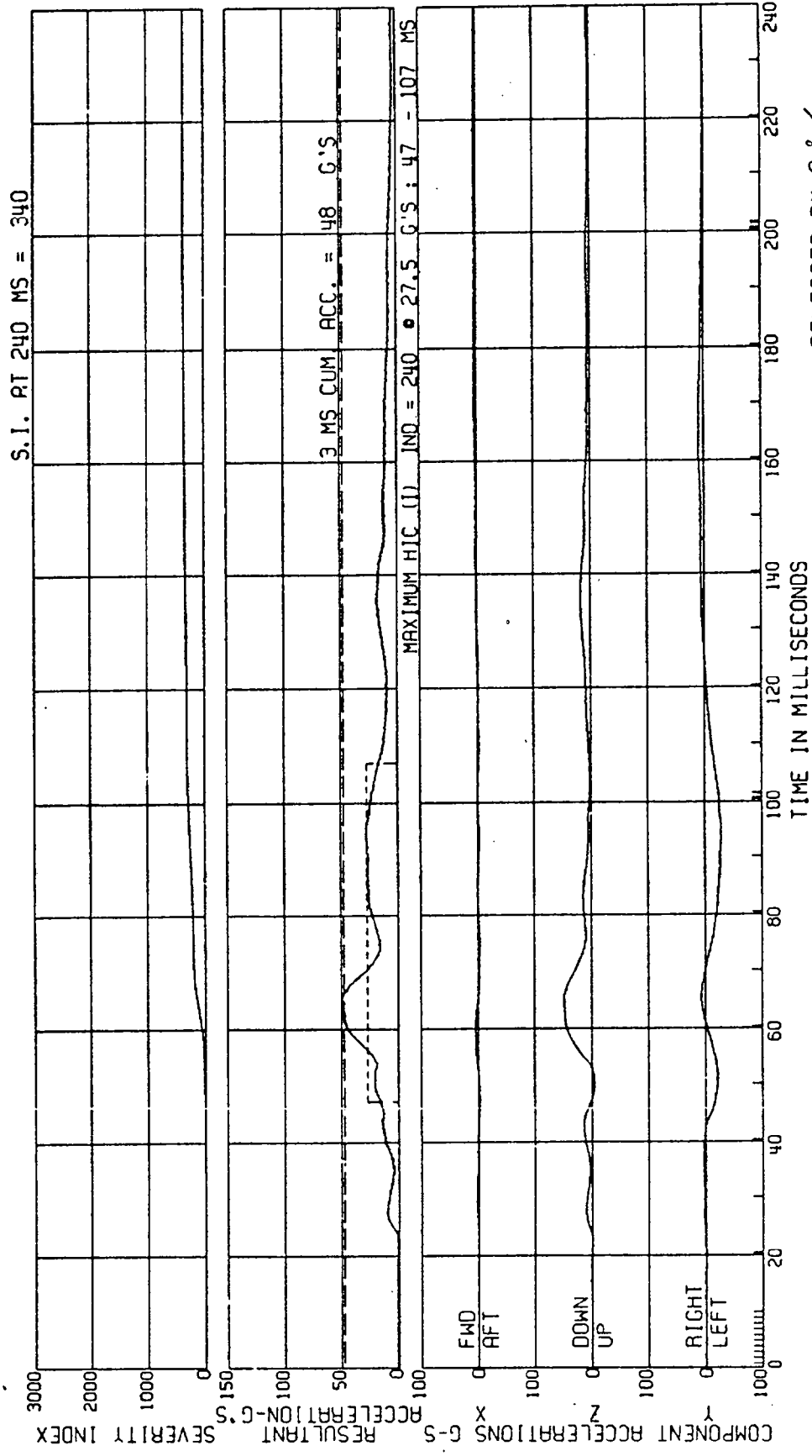
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F.B. CC453 3JC77 STRUCK VEH

R FRT HEAD ACCEL. GM50SI

TEST DATE:12-10-84

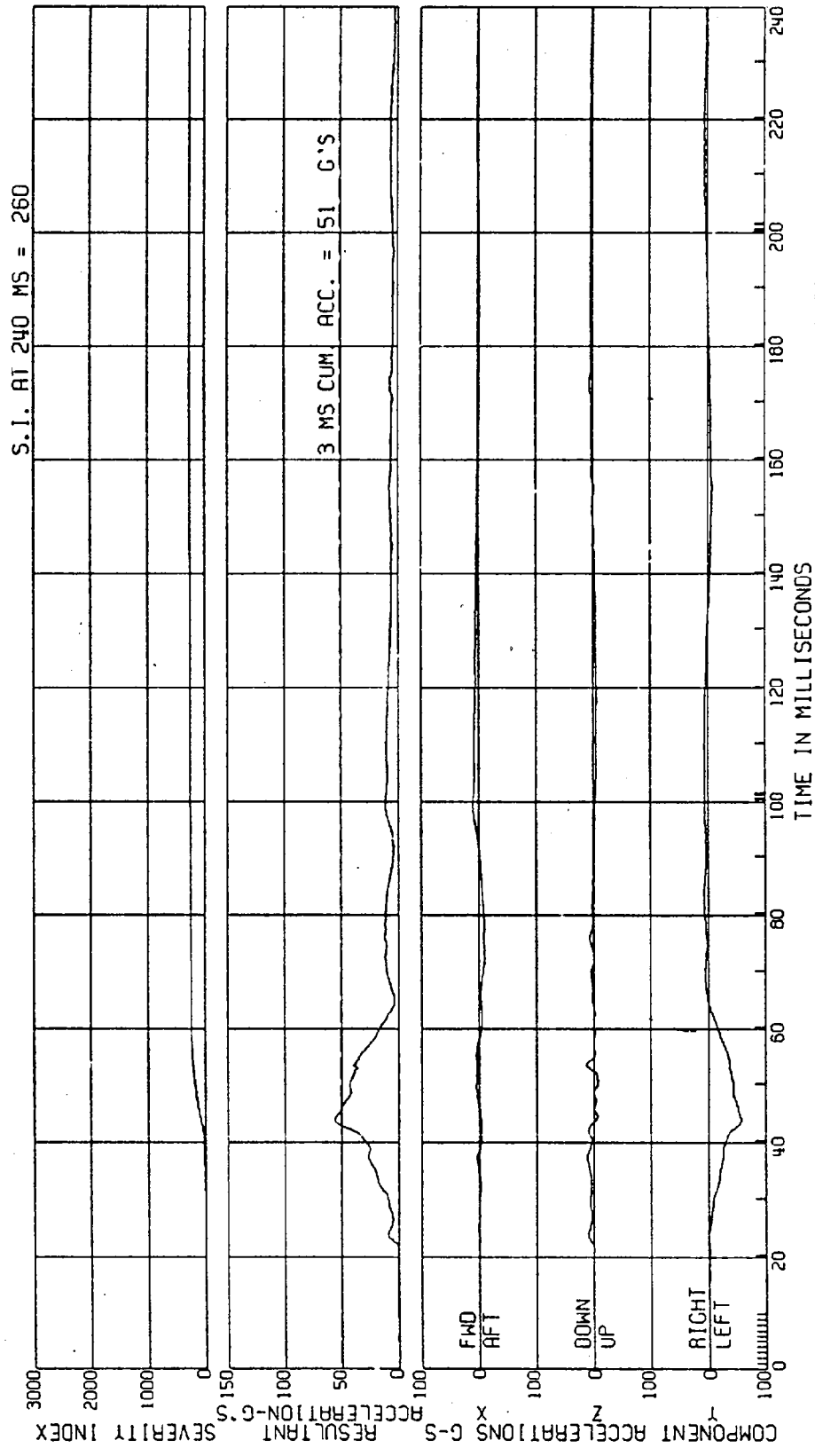
A-D DATA



RELEASED BY: 02-1

1 PROCESSED 11 DE 84 19:09

CG1098 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 70
 3865-840
 F.B. CC453 3JC77 STRUCK VEH R FRT CHEST ACCEL. GM50SI TEST DATE: 12-10-84
 A-D DATA SAE CLASS 180

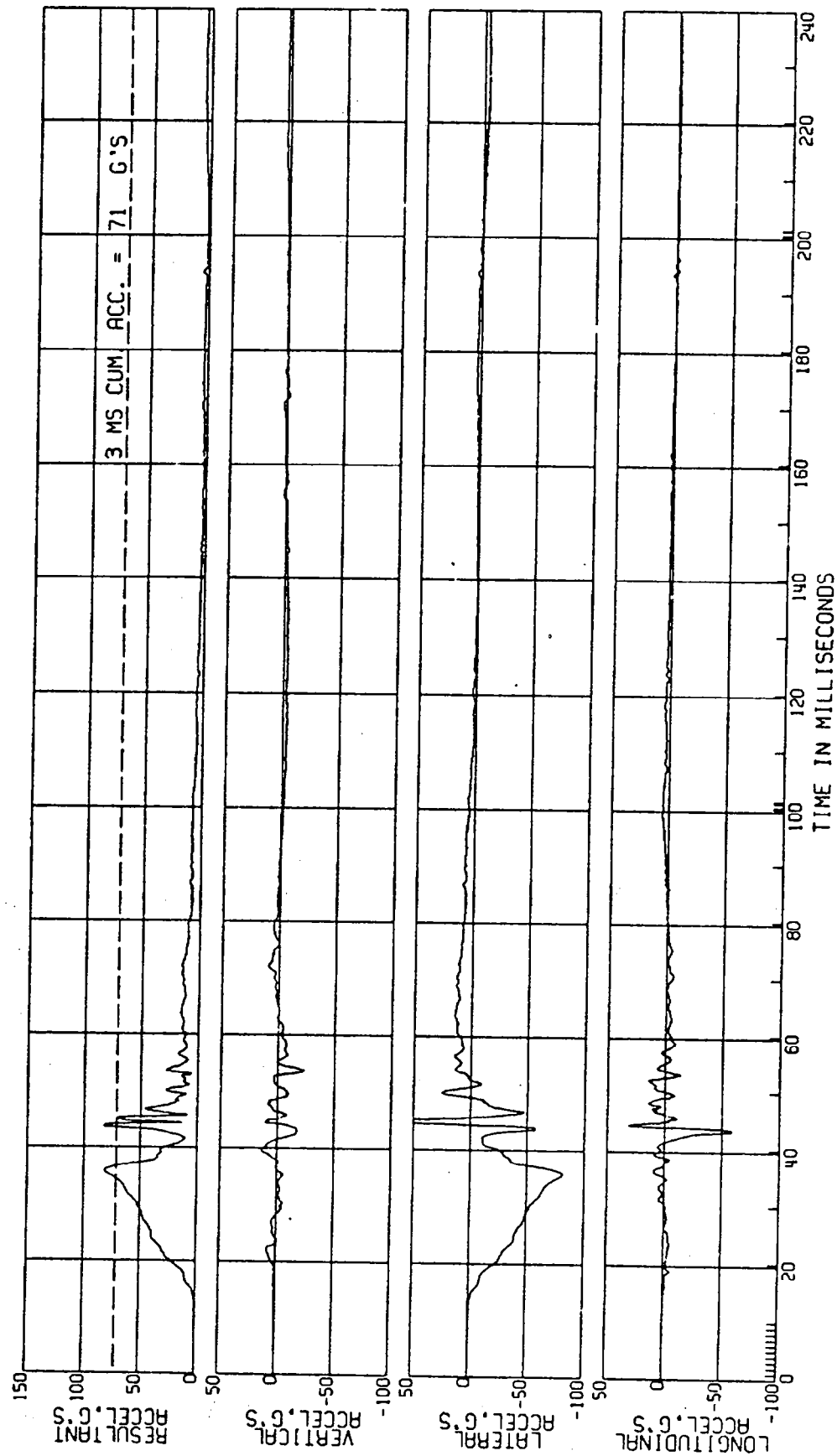


40.8 KM/H FIGURE 71

F.B. CC453 3JC77 STRUCK VEH

R FRT PELVIC ACCEL. GM50SI

TEST DATE: 12-10-84



RELEASED BY: CIA
3 PROCESSED 11 DE 84 19:12

CG1098 RIGHT SIDE IMPACT

3865-840

F.B. CC453 3JC77 STRUCK VEH

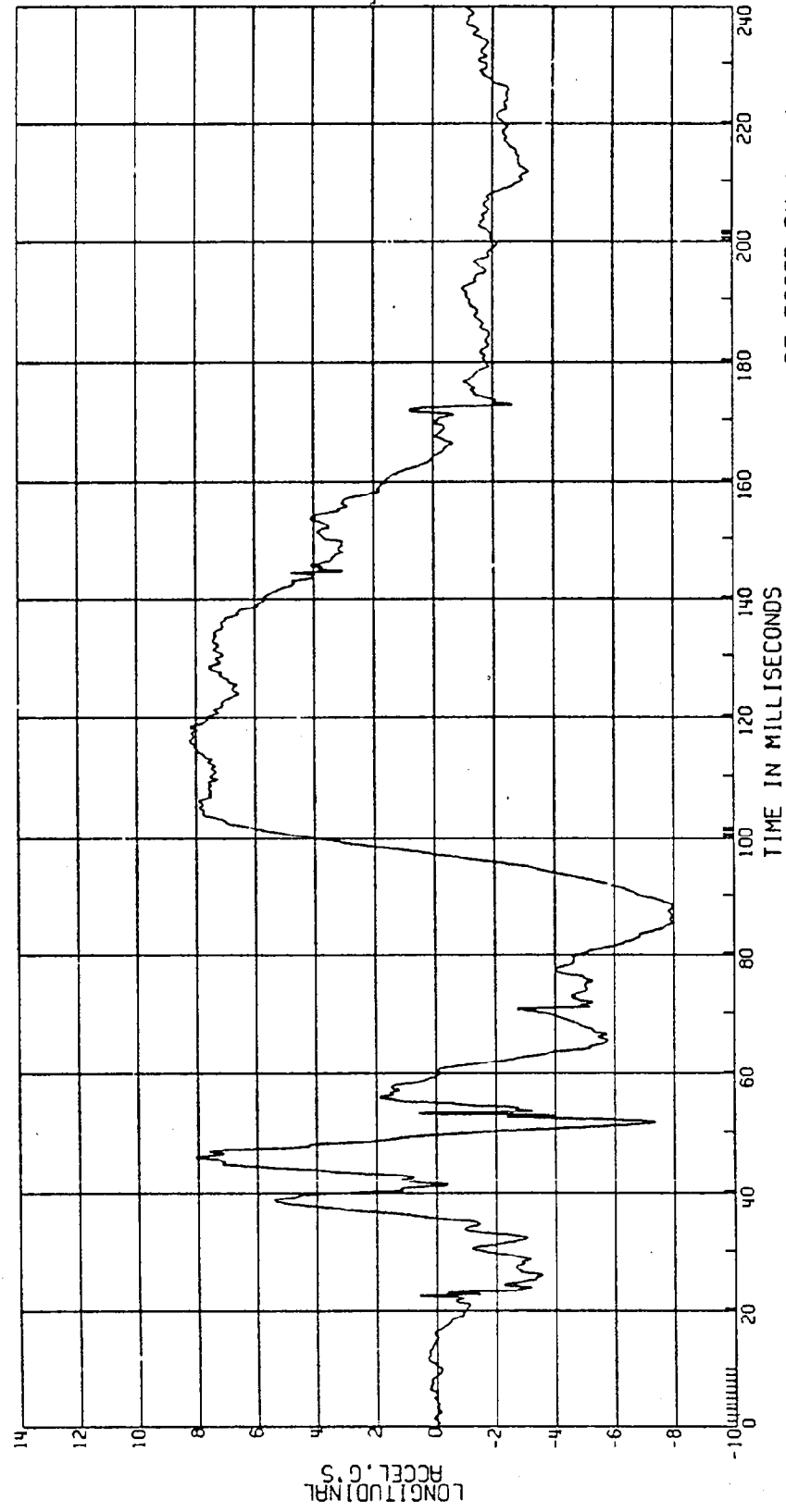
A-D DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE

40.8KM/H FIGURE 72

R FRT LOWER SPINE ACCEL. GM50SI

TEST DATE:12-10-84



RELEASED BY: C127

12 PROCESSED 11 DE 84 19:13

CG1098 RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 73

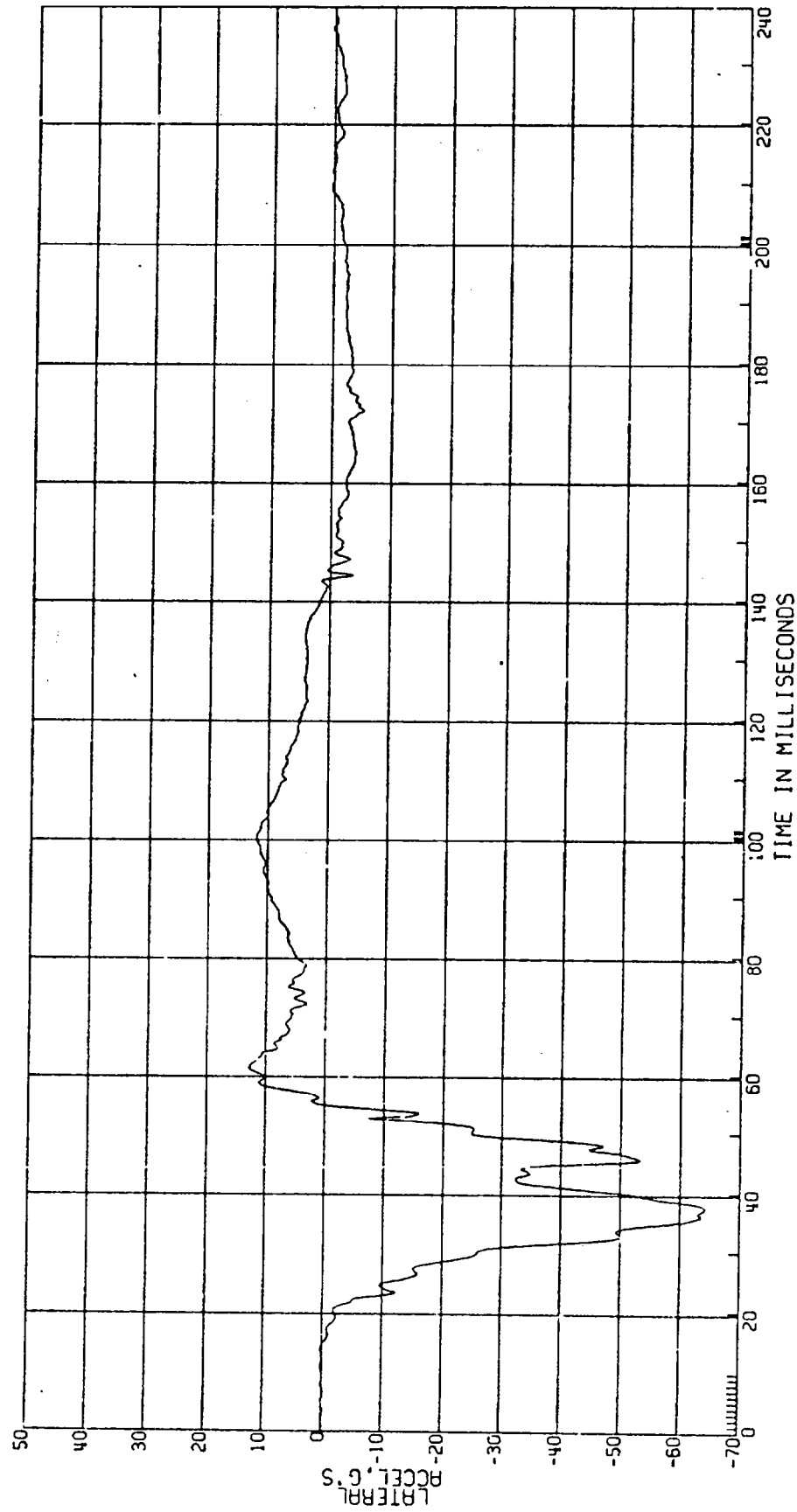
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F.B. CC453 3JC77 STRUCK VEH

R FRT LOWER SPINE ACCEL. GM50SI

TEST DATE: 12-10-84

A-D DATA SPE CLASS 100



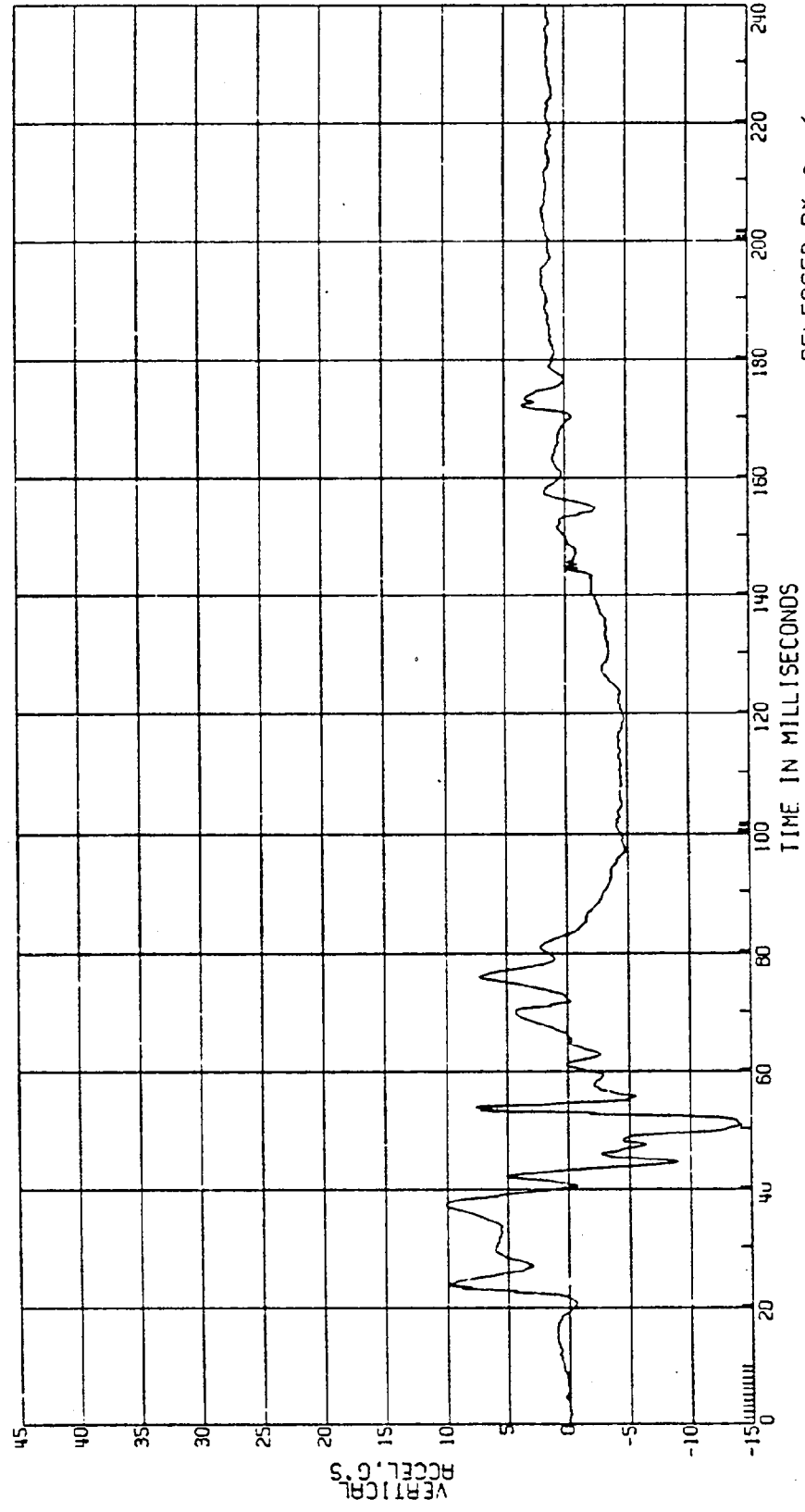
RELEASED BY: G-1
14 PROCESSED 11 DE 84 19:13

CG1098 RIGHT SIDE IMPACT
3865-840
F.B. CC453 3JC77 STRUCK VEH
A-D DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 74

R FRT LOWER SPINE ACCEL. GM50SI

TEST DATE:12-10-84



RELEASED BY: J. J. J.
16 PROCESSED 11 DE 84 19:13

CG109B RIGHT SIDE IMPACT

3865-840

F.B. CC453 3JC77 STRUCK VEH

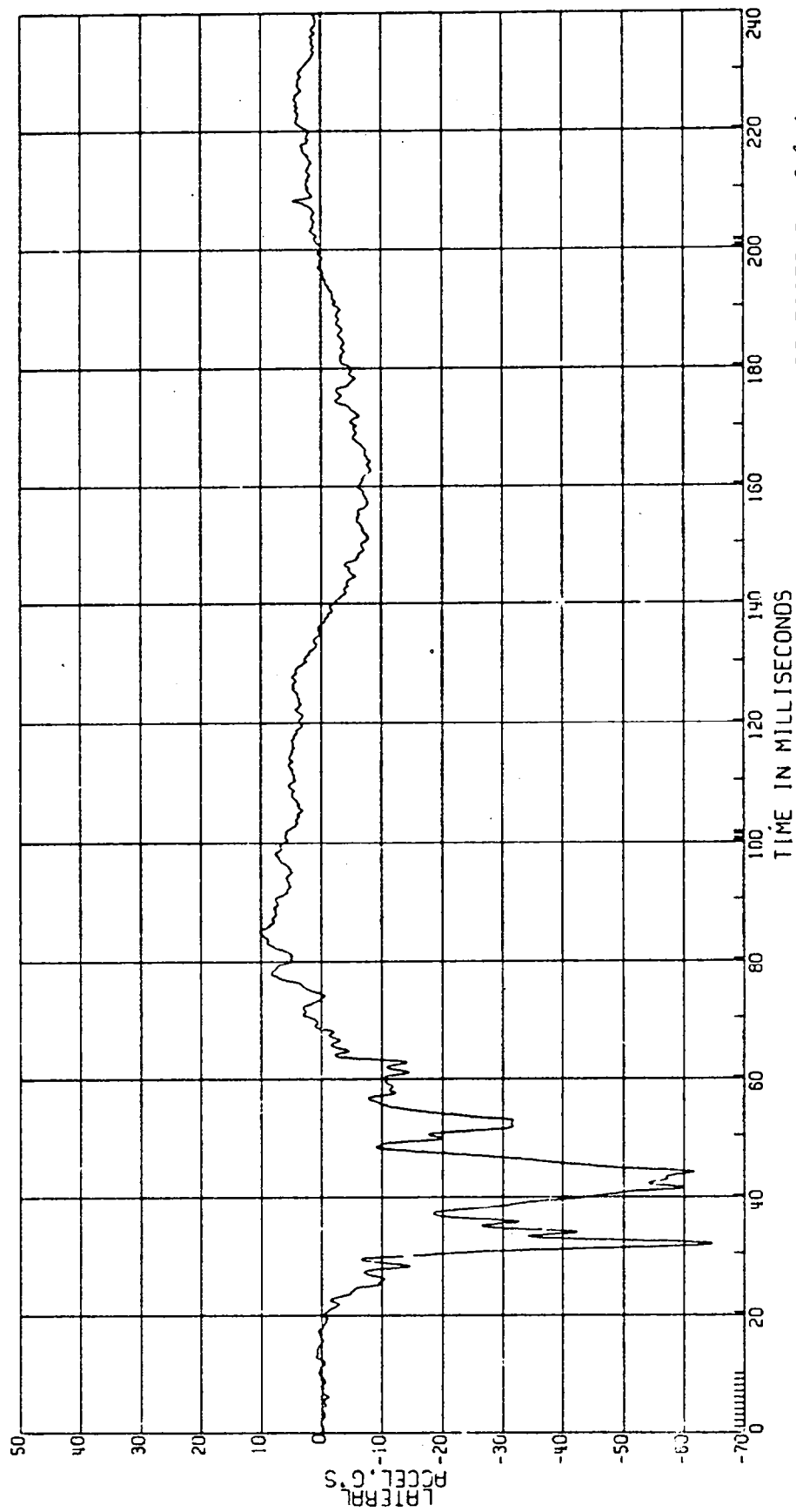
A-D DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE

40.8KN/H FIGURE 75

R FRT RIGHT UPPER RIB ACCEL. GM50SI

TEST DATE:12-10-84



RELEASED BY: G.F.

8 PROCESSED 11 DE 84 19:13

C61098 RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE

40.8KM/H FIGURE 7G

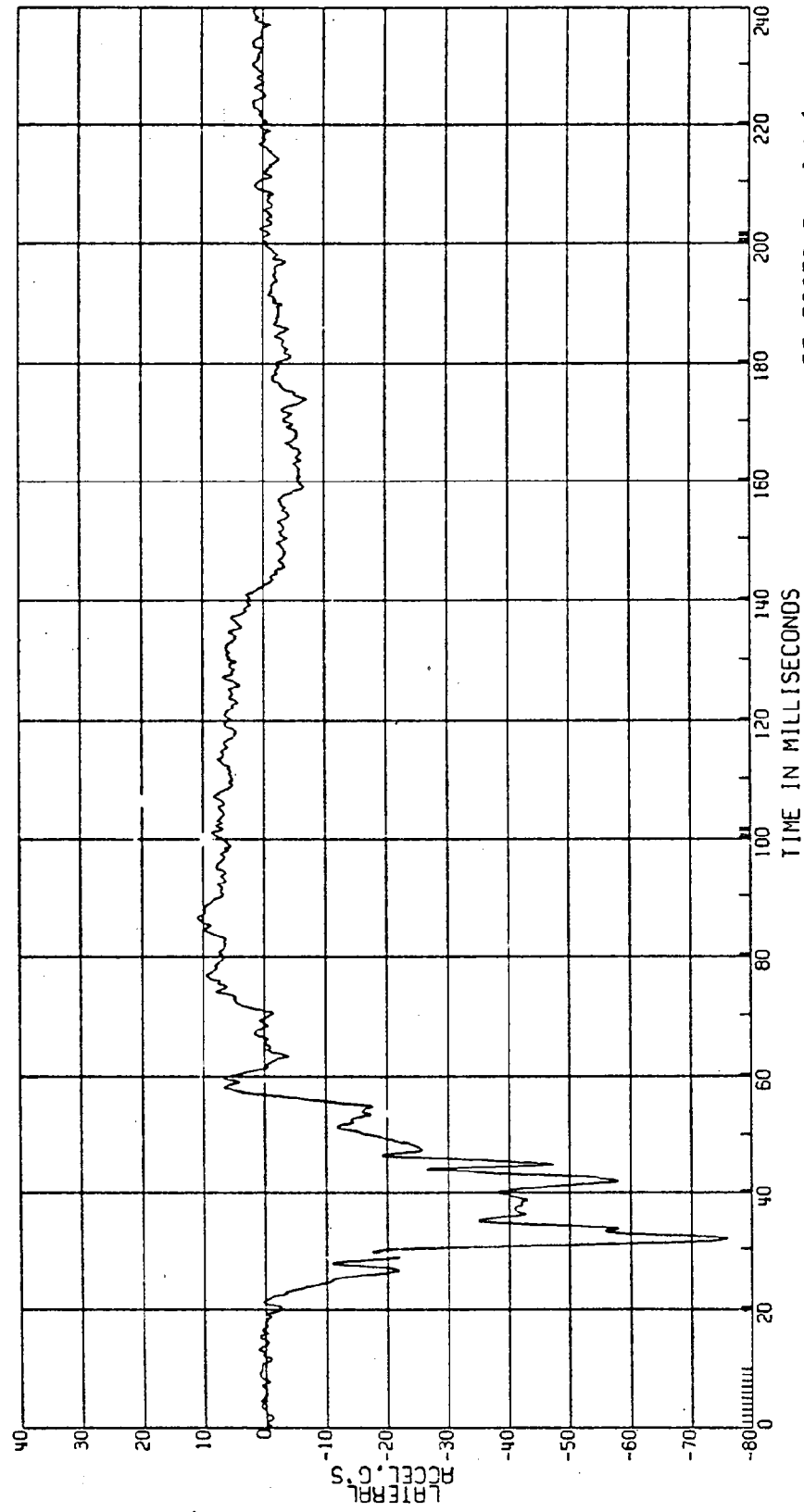
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F.B. CC453 3JC77 STRUCK VEH

R FRT RIGHT LOWER RIB ACCEL. CM50SI

TEST DATE: 12-10-84

A-D DATA SAE CLASS 180



RELEASED BY: 75

10 PROCESSED 11 DE 84 19:13

CG1098 RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE

40.8KM/H FIGURE 77

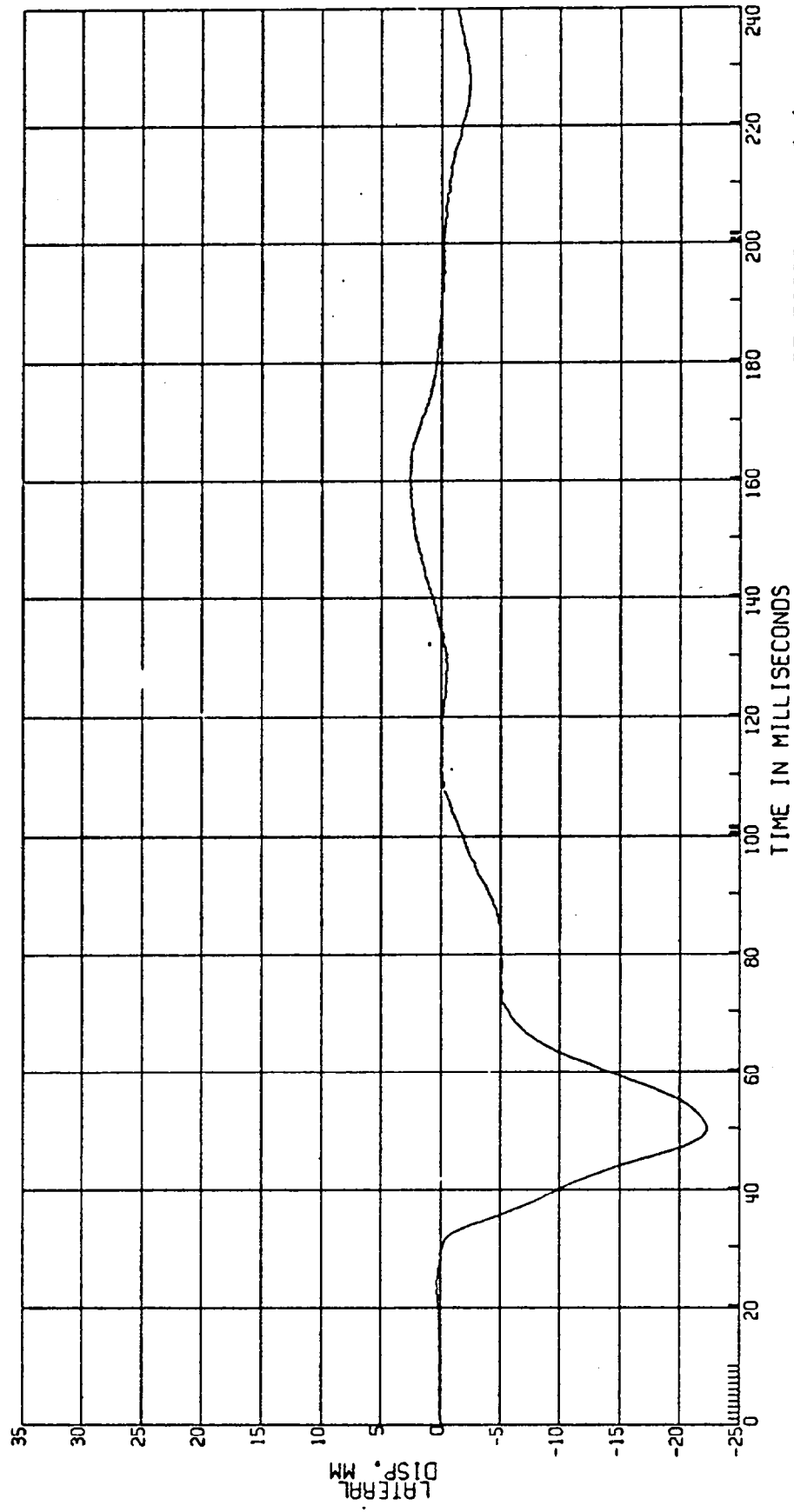
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F.B. CC453 3JC77 STRUCK VEH

R FRT RIGHT UPPER RIB DISP. GM50SI

TEST DATE: 12-10-84

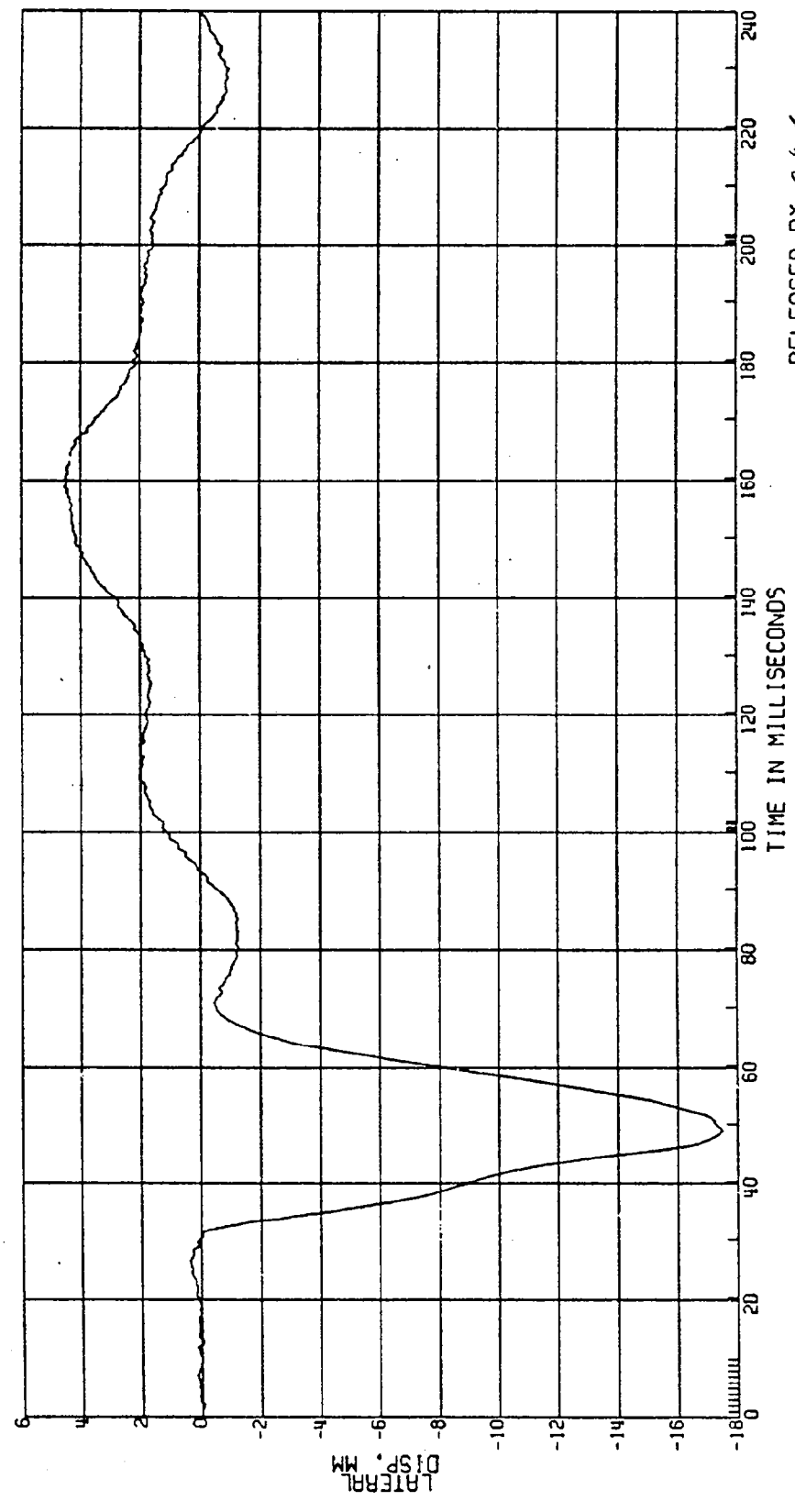
A-D DATA SAE CLASS 180



RELEASED BY: JJS
4 PROCESSED 11 DE 84 19:12

C61098 RIGHT SIDE IMPACT
3865-840
F.B. CC453 3JC77 STRUCK VEH
A-O DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE 40.8 KM/H FIGURE 78
R FRT RIGHT LOWER RIB DISP. GM50SI
TEST DATE: 12-10-84



CG109A RIGHT SIDE IMPACT

3865-840

F.B. CC453 3JC77 STRUCK VEH

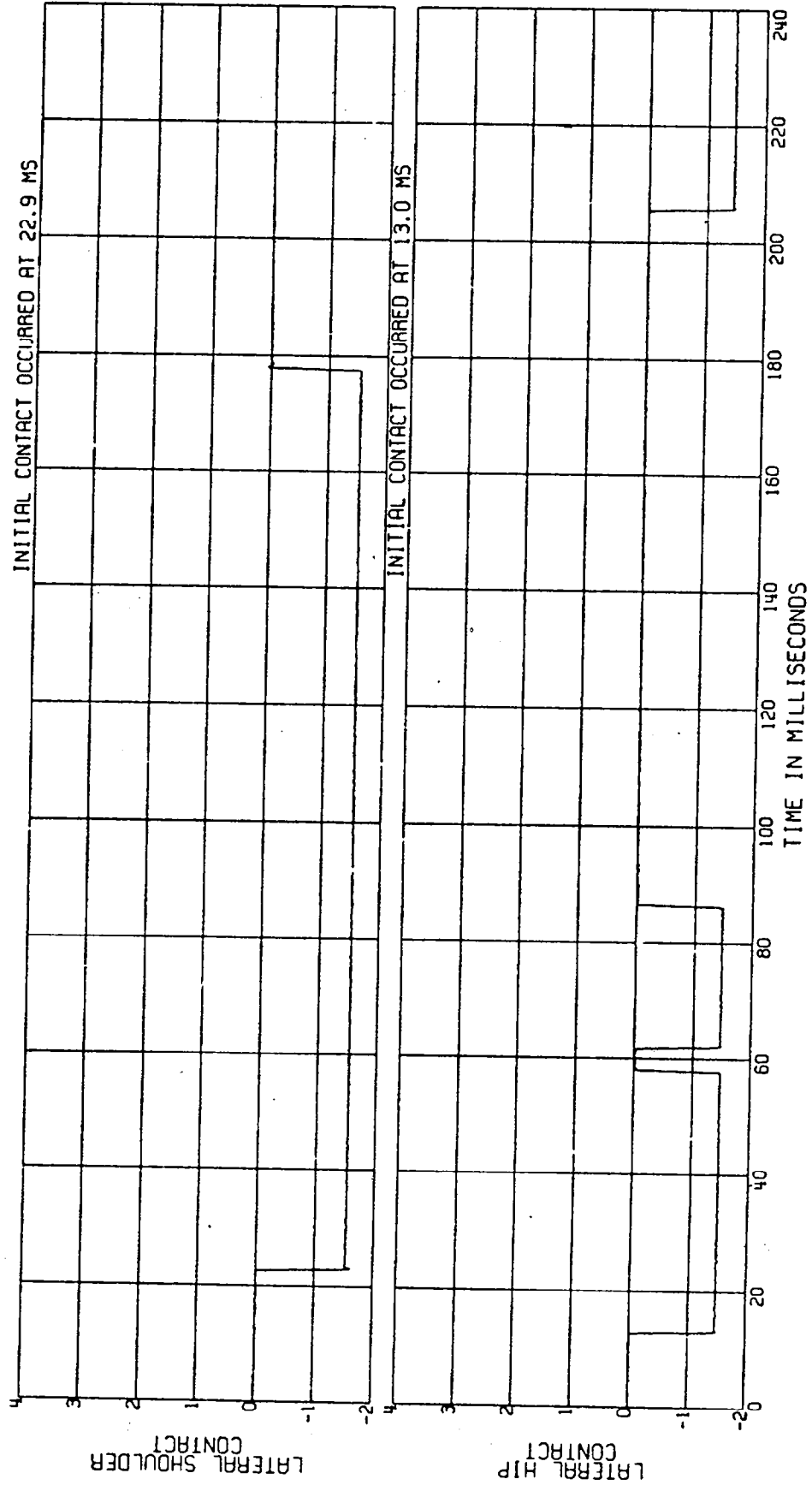
A-D DATA

MOVING BARRIER TO PARKED VEHICLE

40.8KM/H FIGURE 79

FRONT DUMMY TO RT.FRT.DOOR CONTACT

TEST DATE: 12-10-84



C6109A RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 80

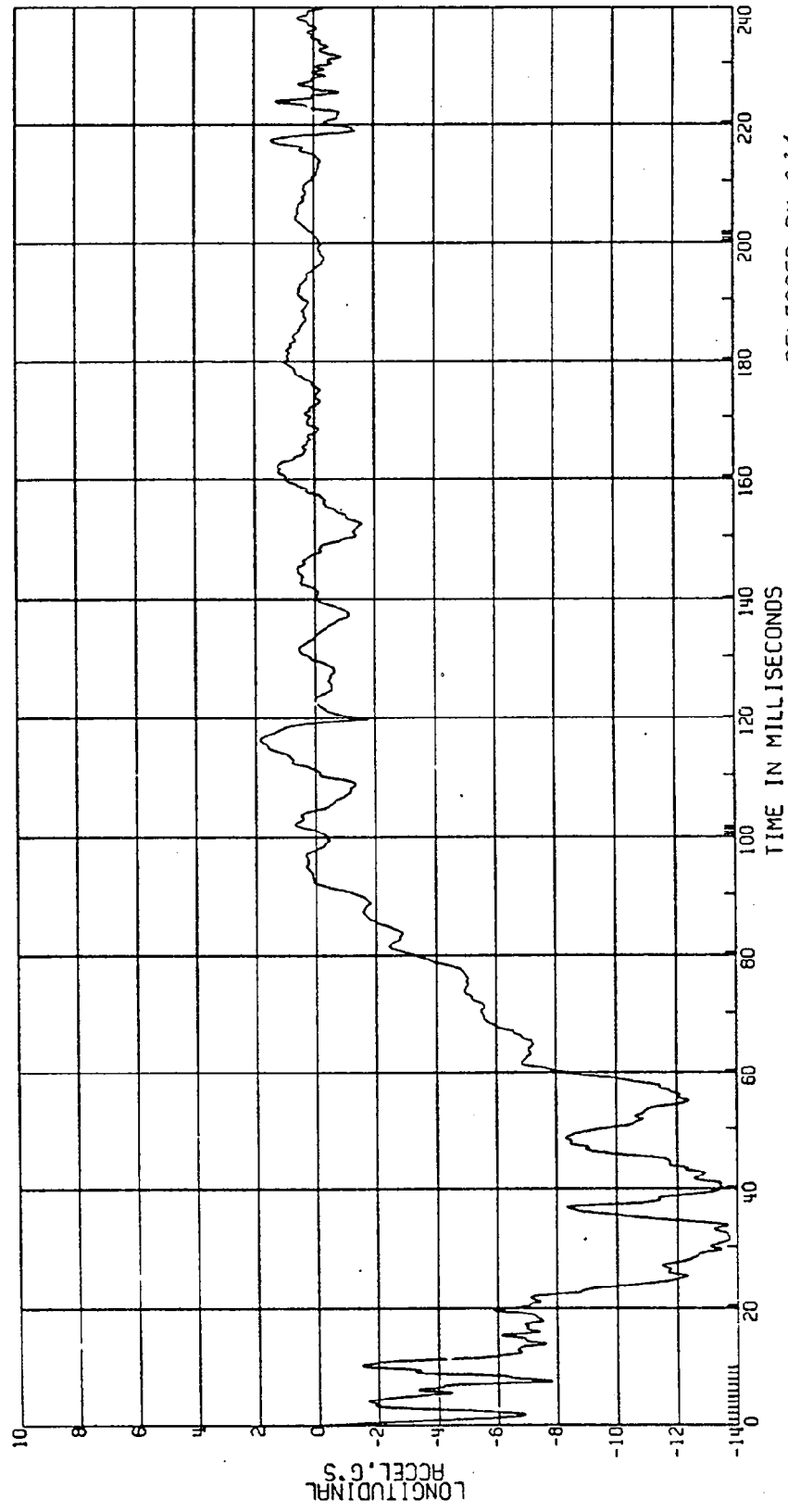
3865-840

F.B. NHTSA BARR. STRIKING VEH

DR-SIDE FRONT OF BARRIER ACCEL.

A-D DATA SAE CLASS 60

TEST DATE: 12-10-84



RELEASED BY: J24

1 PROCESSED 11 DE 84 20:37

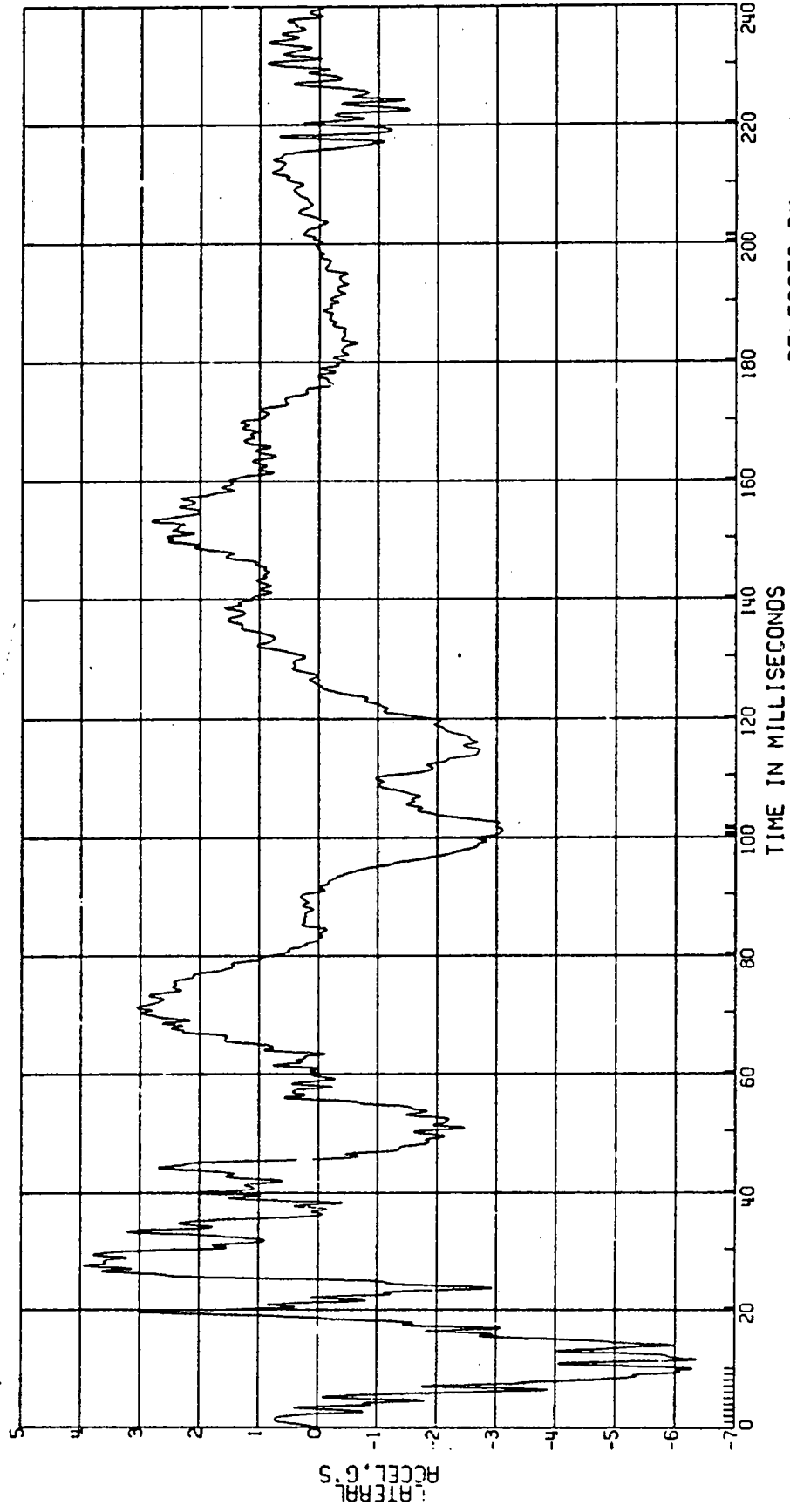
CG109A RIGHT SIDE IMPACT
3865-840

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 81

F.B. NHTSA BARR. STRIKING VEH
A-D DATA SAE CLASS 60

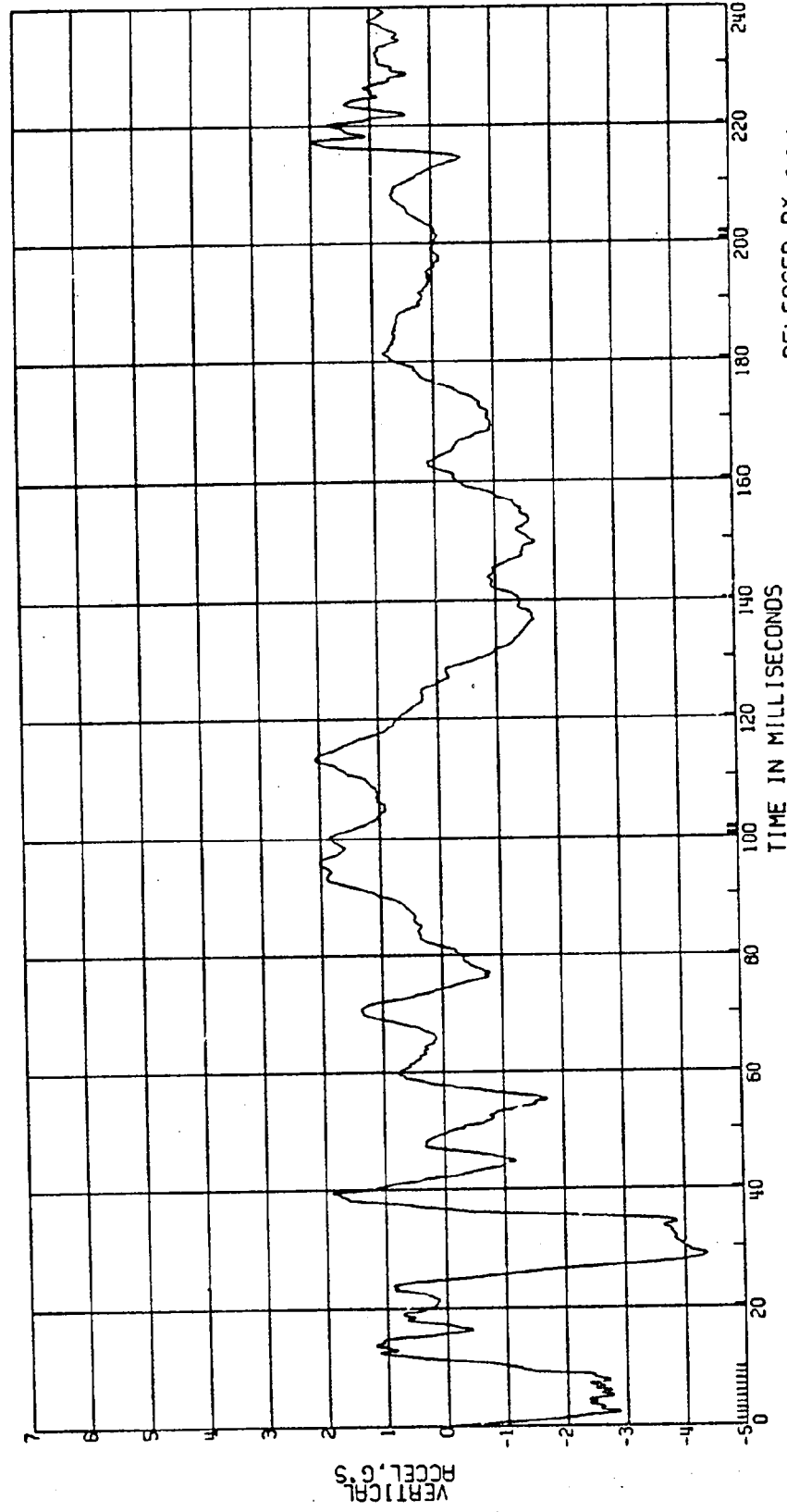
DR-SIDE FRONT OF BARRIER ACCEL.

TEST DATE: 12-10-84



RELEASED BY: J21
10 PROCESSED 11 DE 84 20:40

CG109A RIGHT SIDE IMPACT
MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 82
3865-840
DR-SIDE FRONT OF BARRIER ACCEL.
F.B. NHTSA BARR. STRIKING VEH
TEST DATE: 12-10-84
A-D DATA SAE CLASS 60

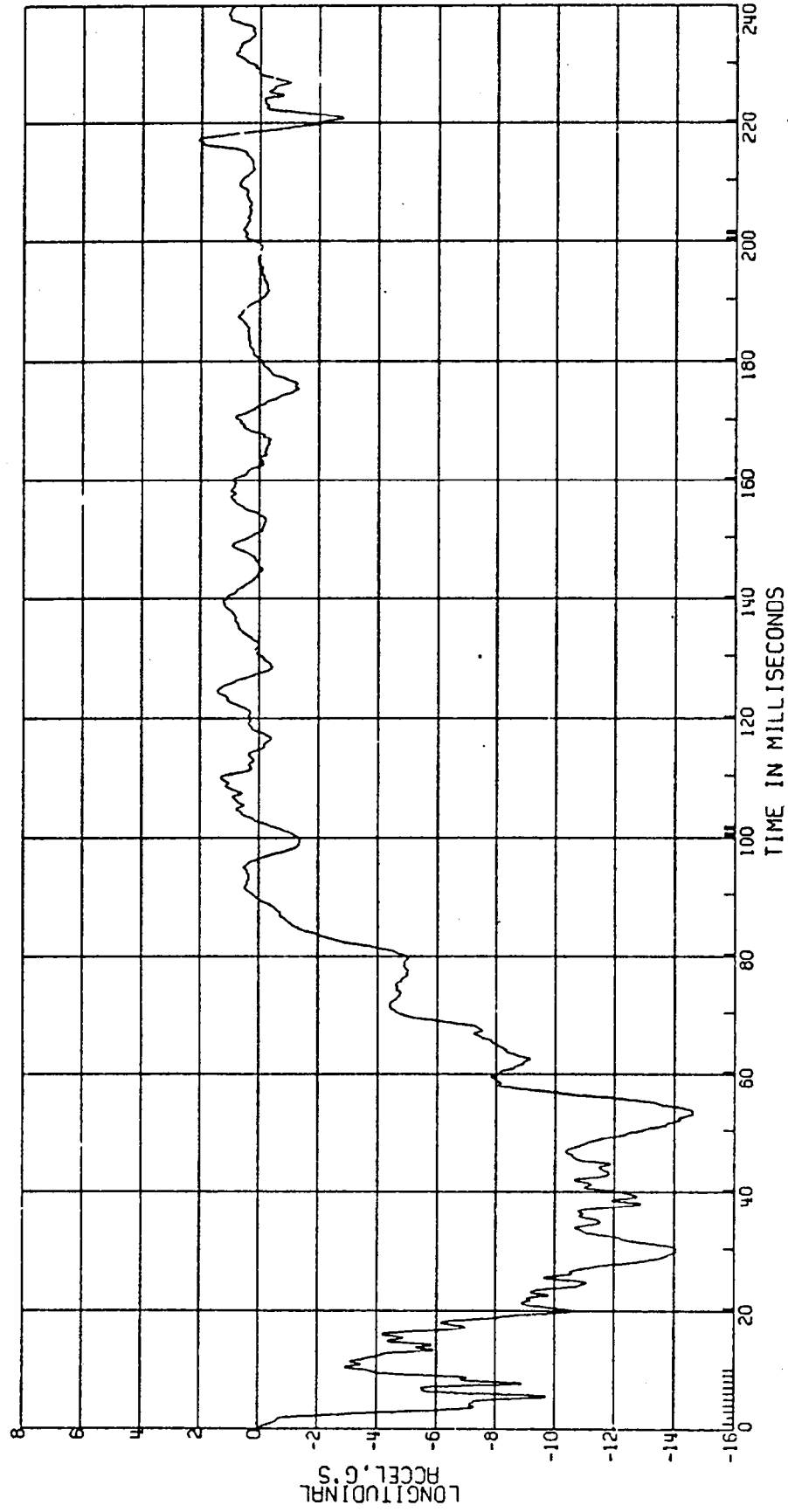


RELEASED BY: GJZ
19 PROCESSED 11 DE 84 20:44

CG109A RIGHT SIDE IMPACT
3865-840
F.B. NHTSA BARR. STRIKING VEH
A-D DATA SAE CLASS 60

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 83
PASS-SIDE FRONT OF BARRIER ACCEL.

TEST DATE: 12-10-84



RELEASED BY: J-1
4 PROCESSED 11 DE 84 20:38

CG109A RIGHT SIDE IMPACT

3865-840

F.B. NHTSA BARR. STRIKING VEH

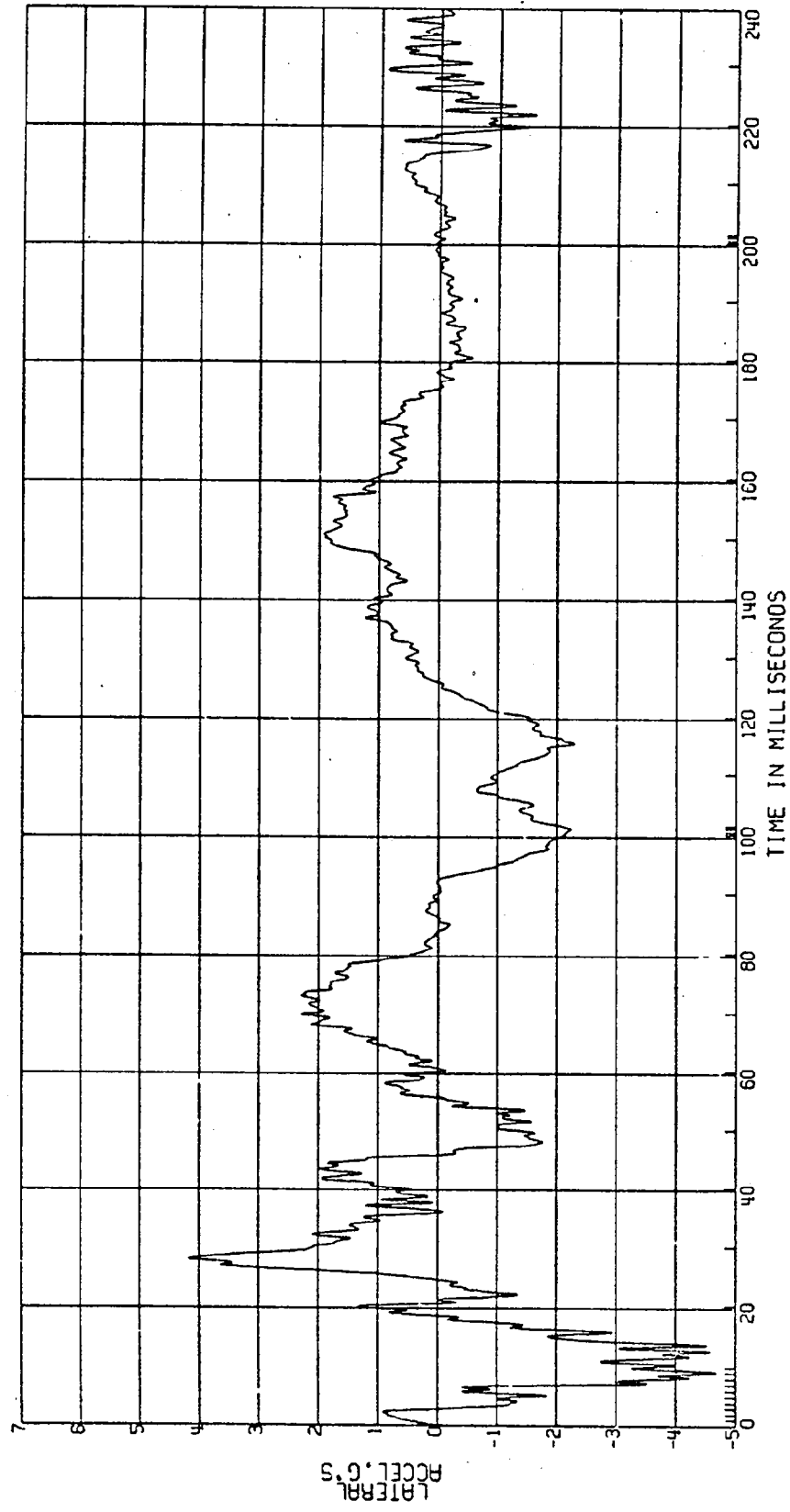
A-D DATA SAE CLASS 60

MOVING BARRIER TO PARKED VEHICLE

40.8KM/H FIGURE 84

PASS-SIDE FRONT OF BARRIER ACCEL.

TEST DATE: 12-10-84

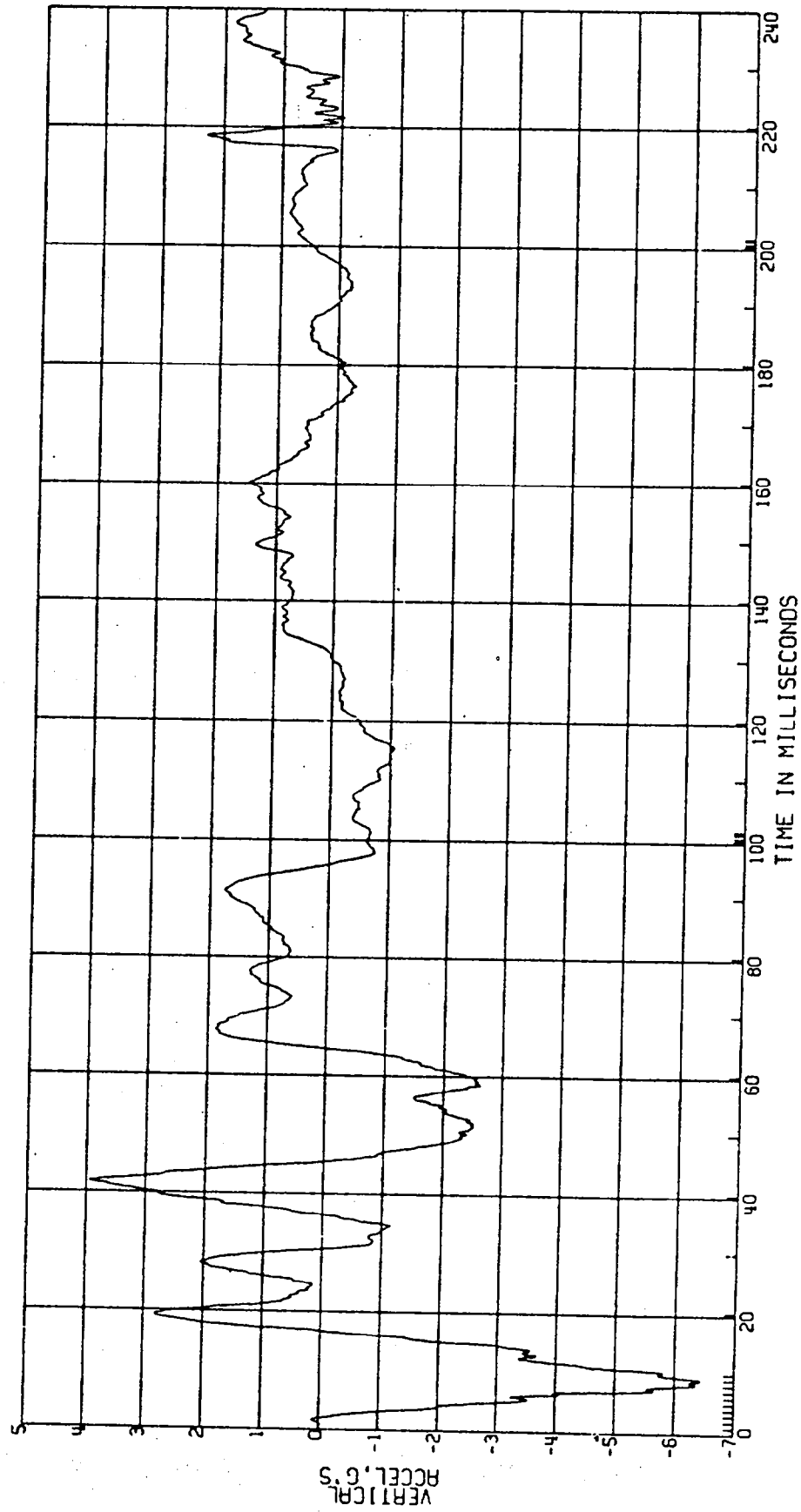


RELEASED BY: 0-2-1
13 PROCESSED 11 DE 84 20:42

CG109A RIGHT SIDE IMPACT
3865-840
F.B. NHTSA BARR. STRIKING VEH
A-D DATA SAE CLASS 60

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 85
PASS-SIDE FRONT OF BARRIER ACCEL.

TEST DATE: 12-10-84



RELEASED BY: J2 /
22 PROCESSED 11 DE 84 20:47

C6109A RIGHT SIDE IMPACT

3865-840

F.B. NHTSA BARR. STRIKING VEH

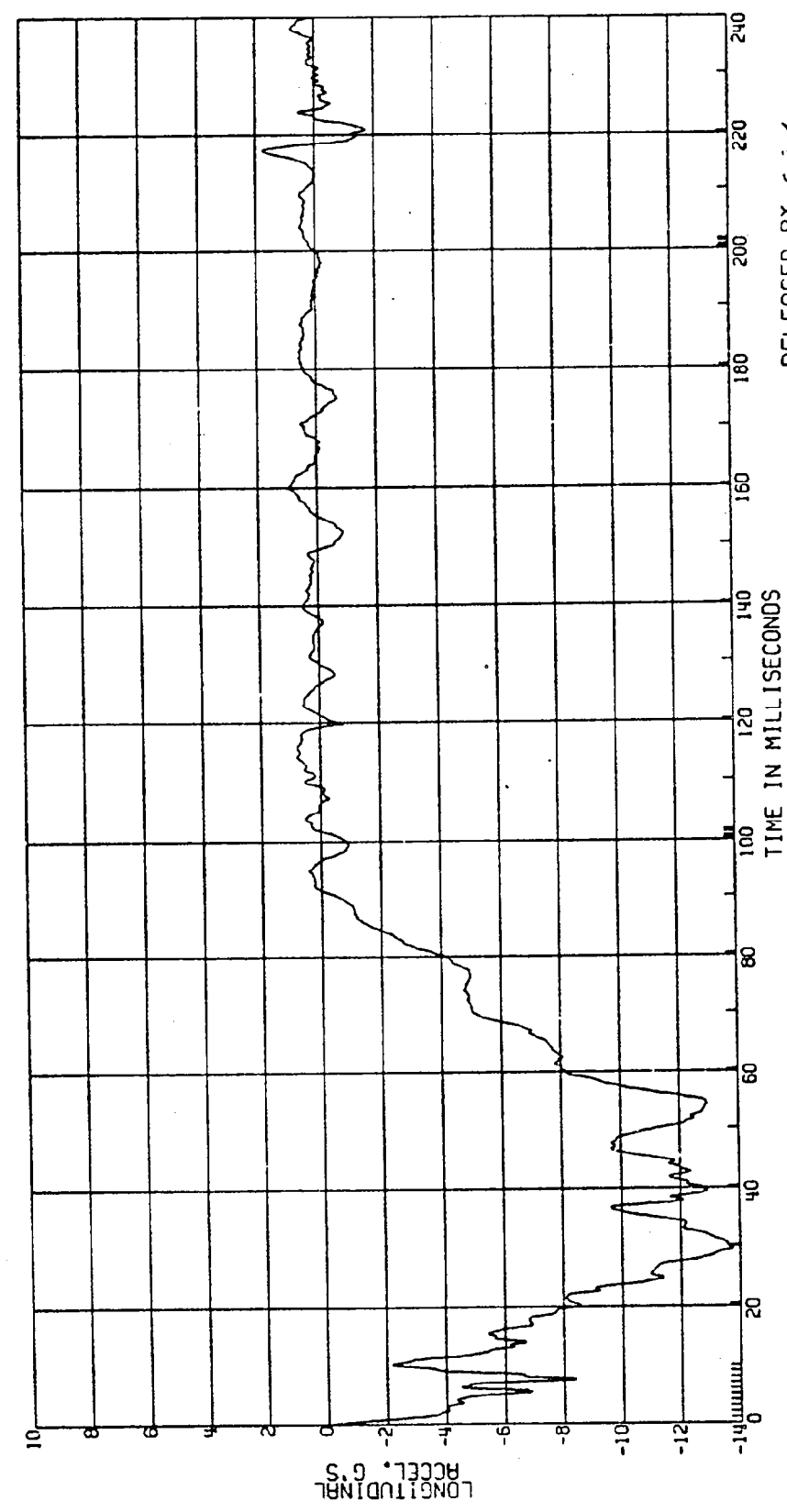
A-D DATA SAE CLASS 60

MOVING BARRIER TO PARKED VEHICLE 40.8 KM/H FIGURE 82

AVERAGED DRIVER & PASSENGER SIDE

TEST DATE: 12-10-84

FRONT OF BARRIER ACCELERATION



RELEASED BY: G-2
7 PROCESSED 11 DE 84 20:39

CG109A RIGHT SIDE IMPACT

3865-840

F.B. NHTSA BARR. STRIKING VEH

A-D DATA SAE CLASS 60

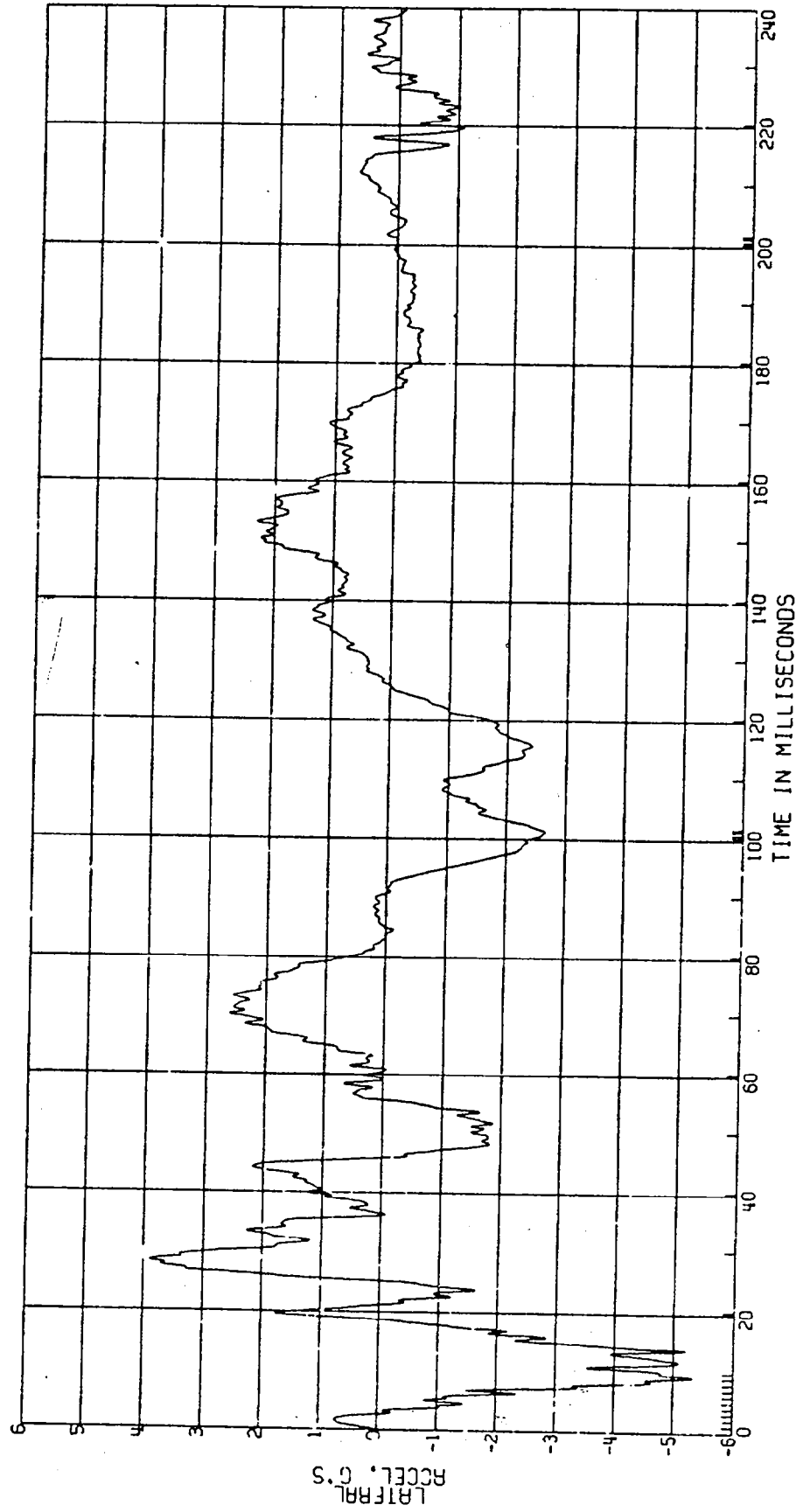
MOVING BARRIER TO PARKED VEHICLE

40.8KM/H FIGURE 27

AVERAGED DRIVER & PASSENGER SIDE

TEST DATE: 12-10-84

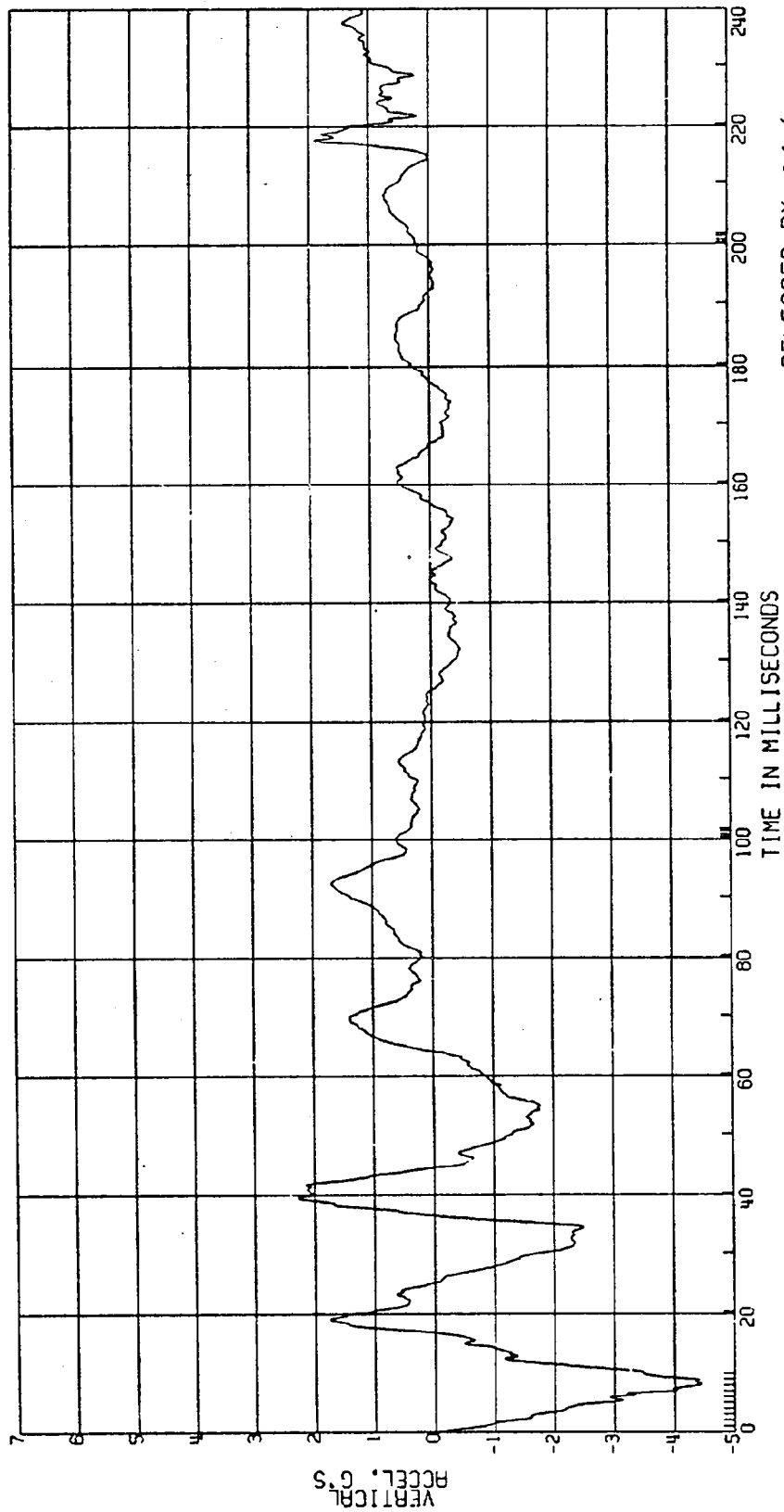
FRONT OF BARRIER ACCELERATION



RELEASED BY: . . .

16 PROCESSED 11 DE 84 20:43

C6109A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 88
3865-840
F.B. NHTSA BARR. STRIKING VEH AVERAGED DRIVER & PASSENGER SIDE TEST DATE:12-10-84
A-D DATA SAE CLASS 60 FRONT OF BARRIER ACCELERATION



RELEASED BY: *[Signature]*
25 PROCESSED 11 DE 84 20:48

CG109A RIGHT SIDE IMPACT

3865-840

F.B. NHTSA BARR. STRIKING VEH

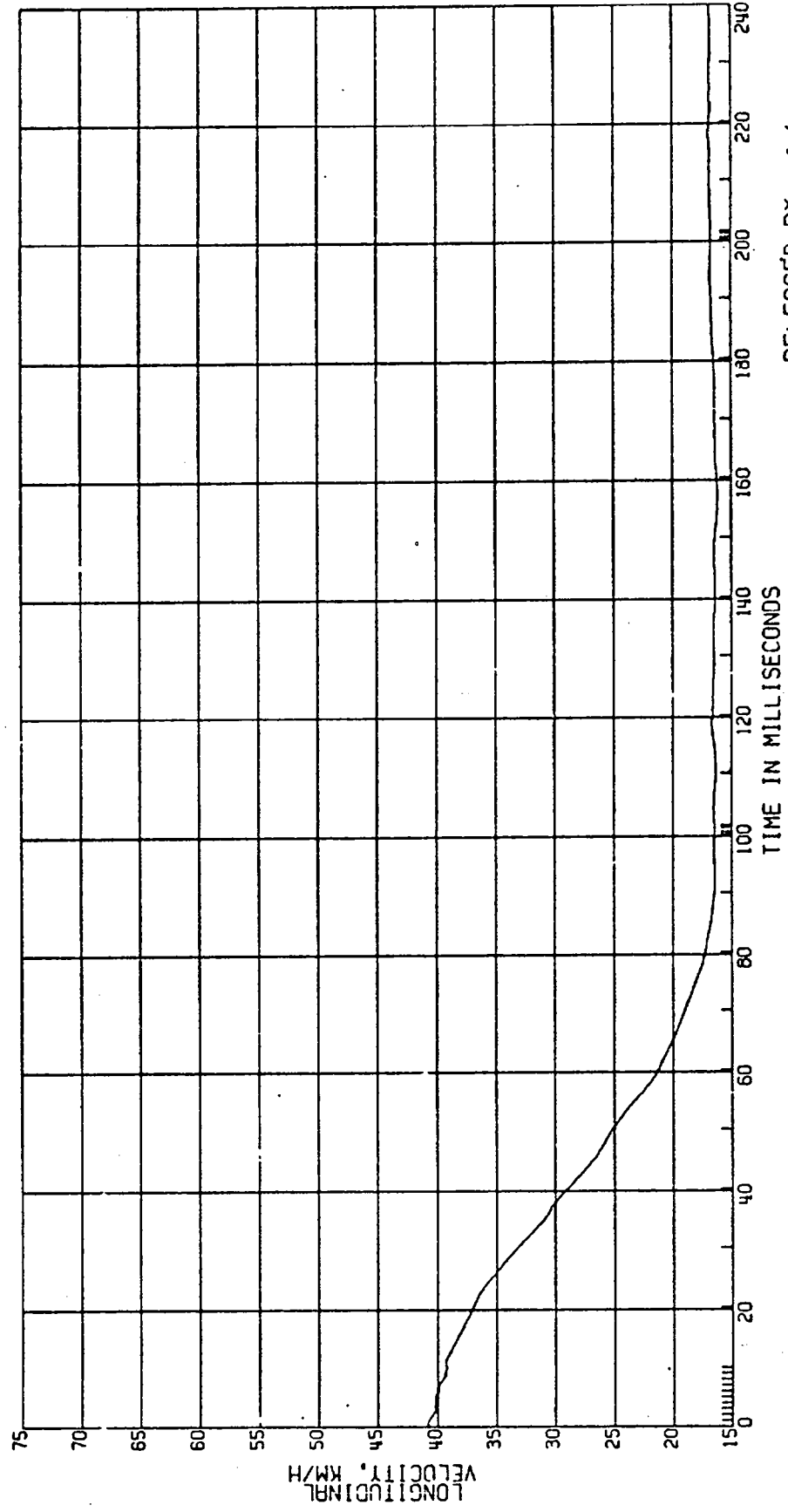
A-D DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 89

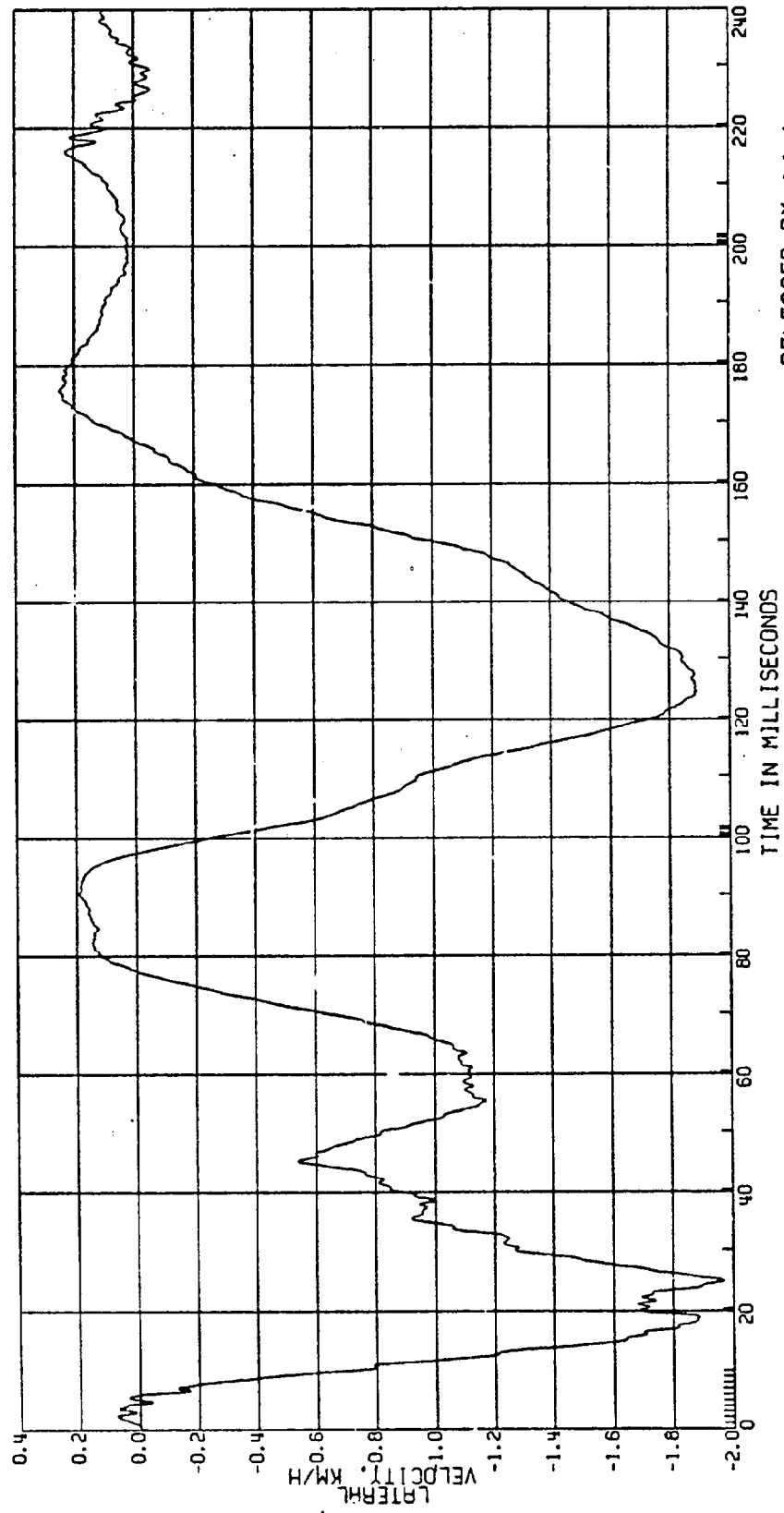
COMPUTED FRONT OF BARRIER VELOCITY

TEST DATE: 12-10-84

(1ST INTEGRAL DR-SIDE ACCELERATION)



CG103A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 90
3865-840
F.B. NHTSA BARR. STRIKING VEH COMPUTED FRONT OF BARRIER VELOCITY TEST DATE: 12-10-84
A-D DATA SAE CLASS 180 (1ST INTEGRAL DR-SIDE ACCELERATION)



RELEASED BY: 03-1
11 PROCESSED 11 DE 84 20:41

CG109A RIGHT SIDE IMPACT

3865-840

F.B. NHTSA BARR. STRIKING VEH

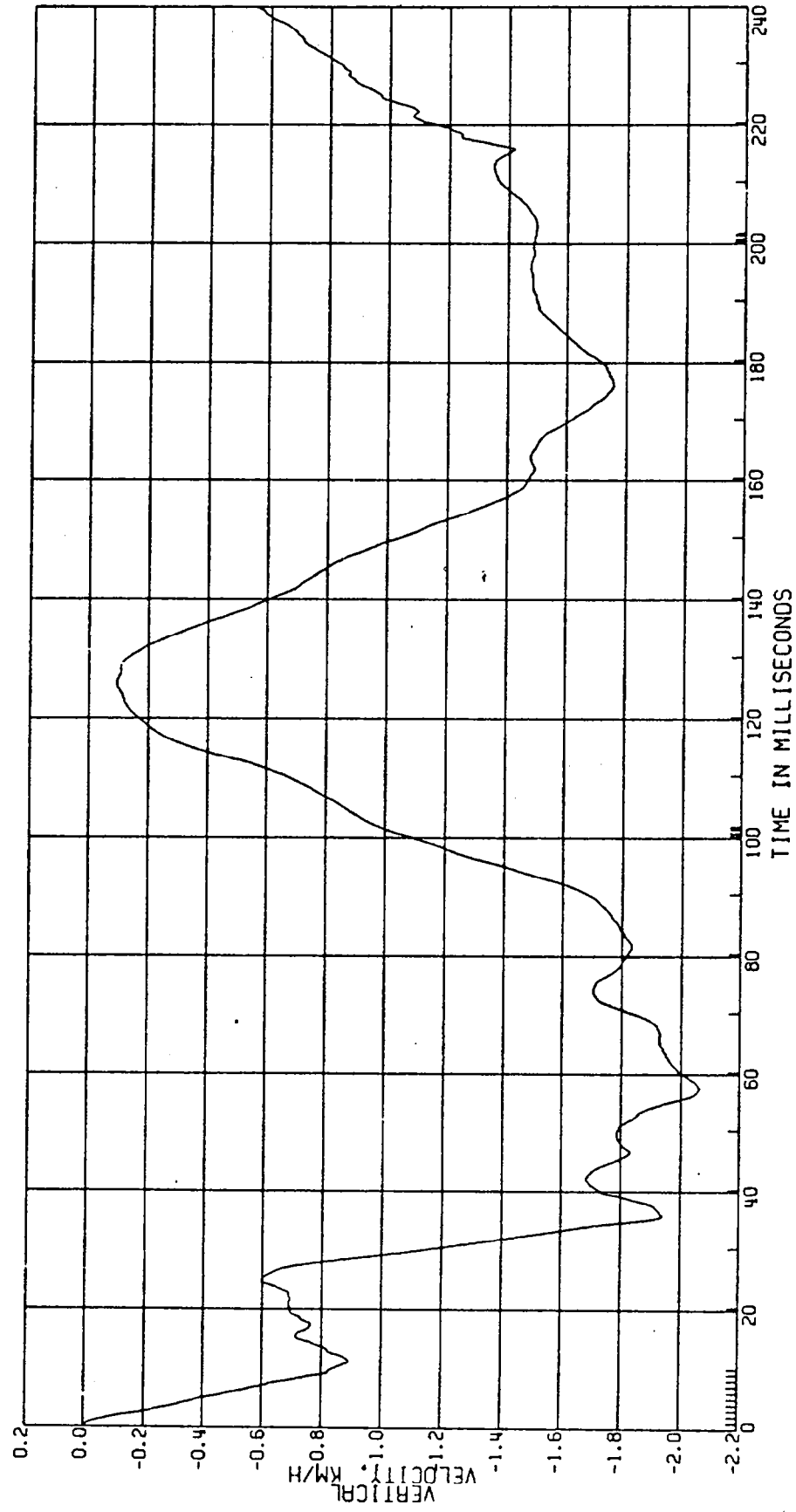
A-D DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 91

COMPUTED FRONT OF BARRIER VELOCITY

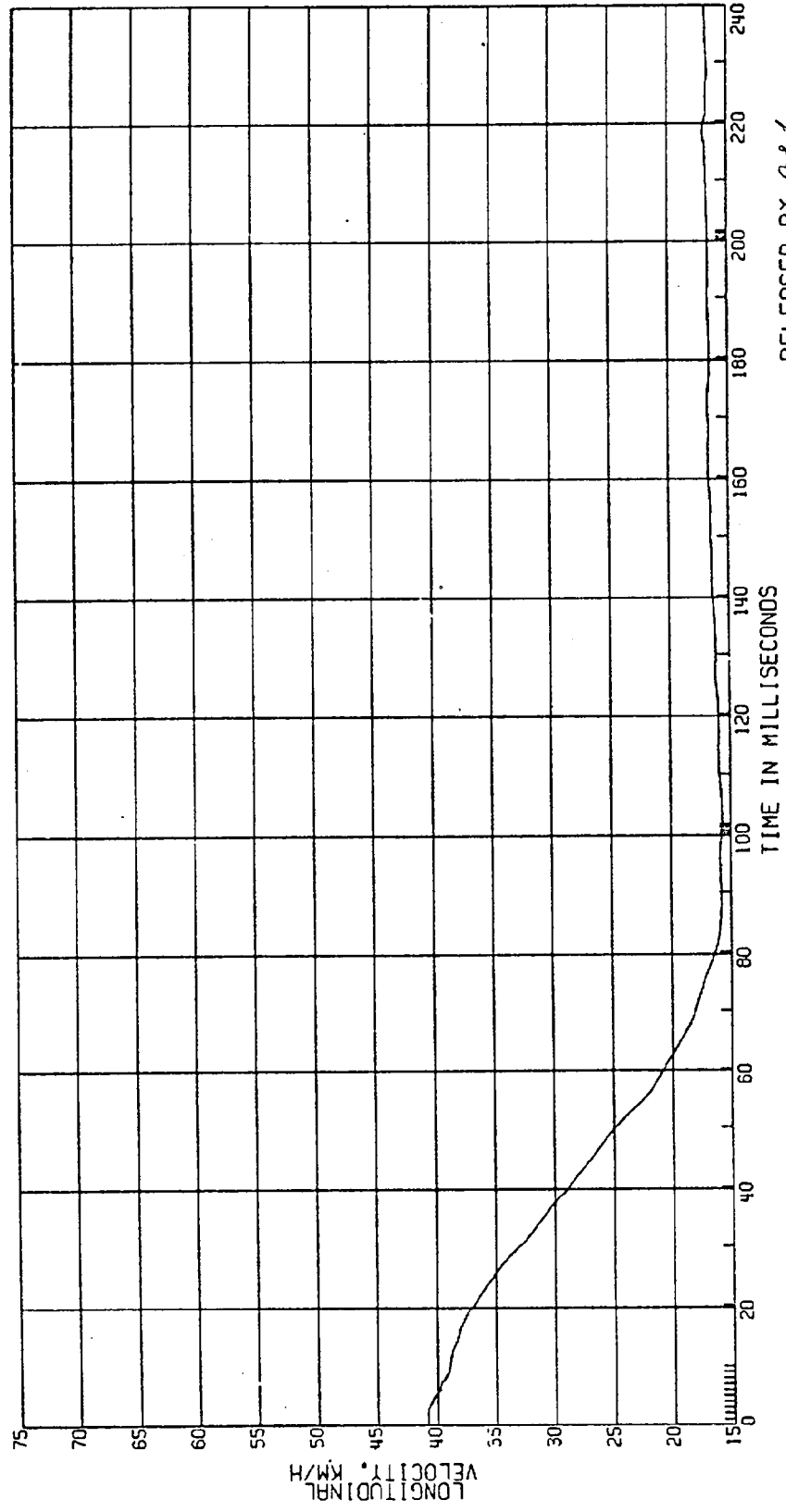
TEST DATE:12-10-84

(1ST INTEGRAL DR-SIDE ACCELERATION)



RELEASED BY: 02
1 PROCESSED 12 DE 84 09:14

CG109A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 40.8 KM/H FIGURE Q2
3865-840
F.B. NHTSA BARR. STRIKING VEH COMPUTED FRONT OF BARRIER VELOCITY TEST DATE: 12-10-84
A-D DATA SAE CLASS 180 (1ST INTEGRAL PASS-SIDE ACCELERATION)



RELEASED BY: G-2
5 PROCESSED 11 DE 84 20:38

CG109A RIGHT SIDE IMPACT

3865-840

F.B. NHTSA BARR. STRIKING VEH

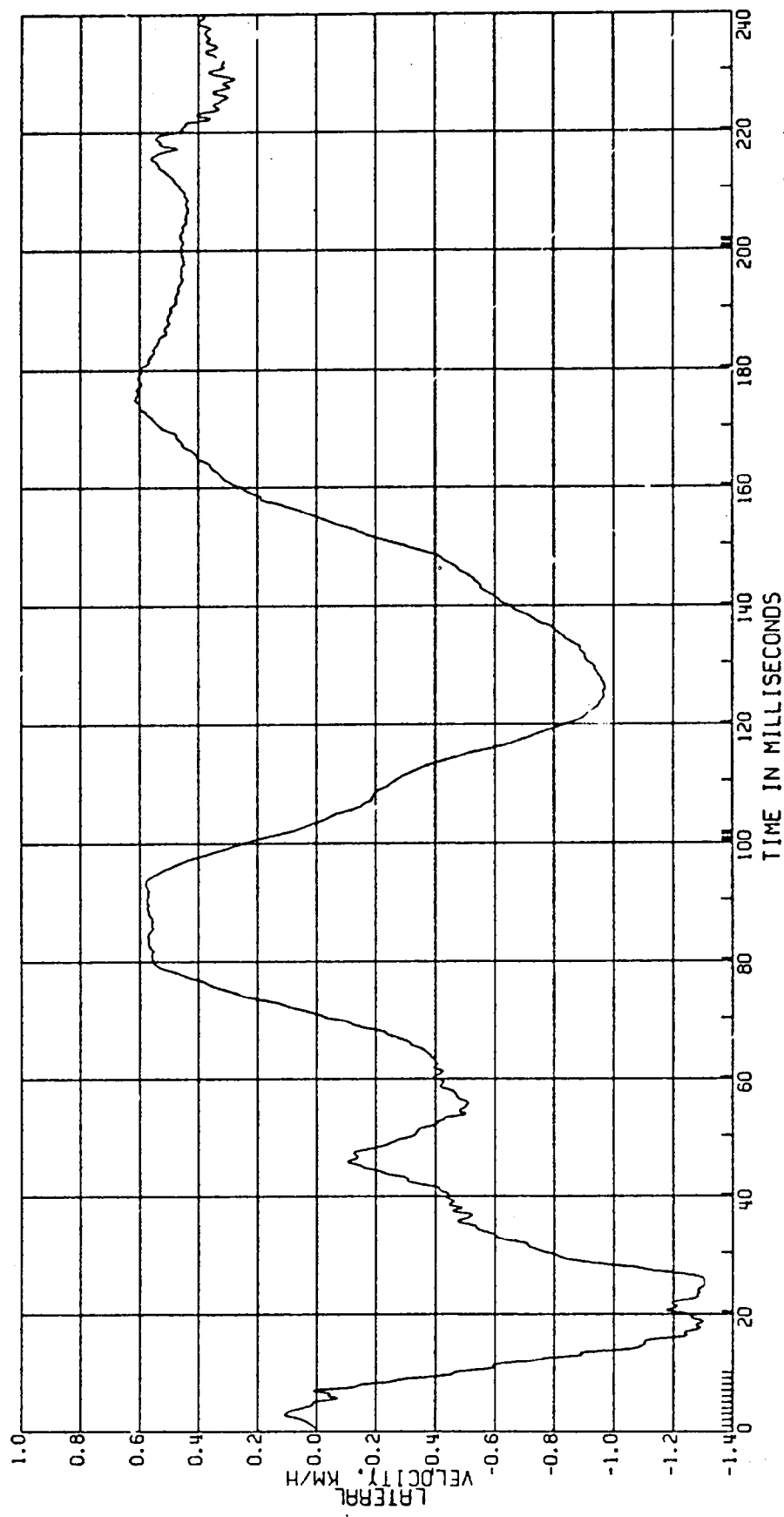
A-D DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 93

COMPUTED FRONT OF BARRIER VELOCITY

TEST DATE:12-10-84

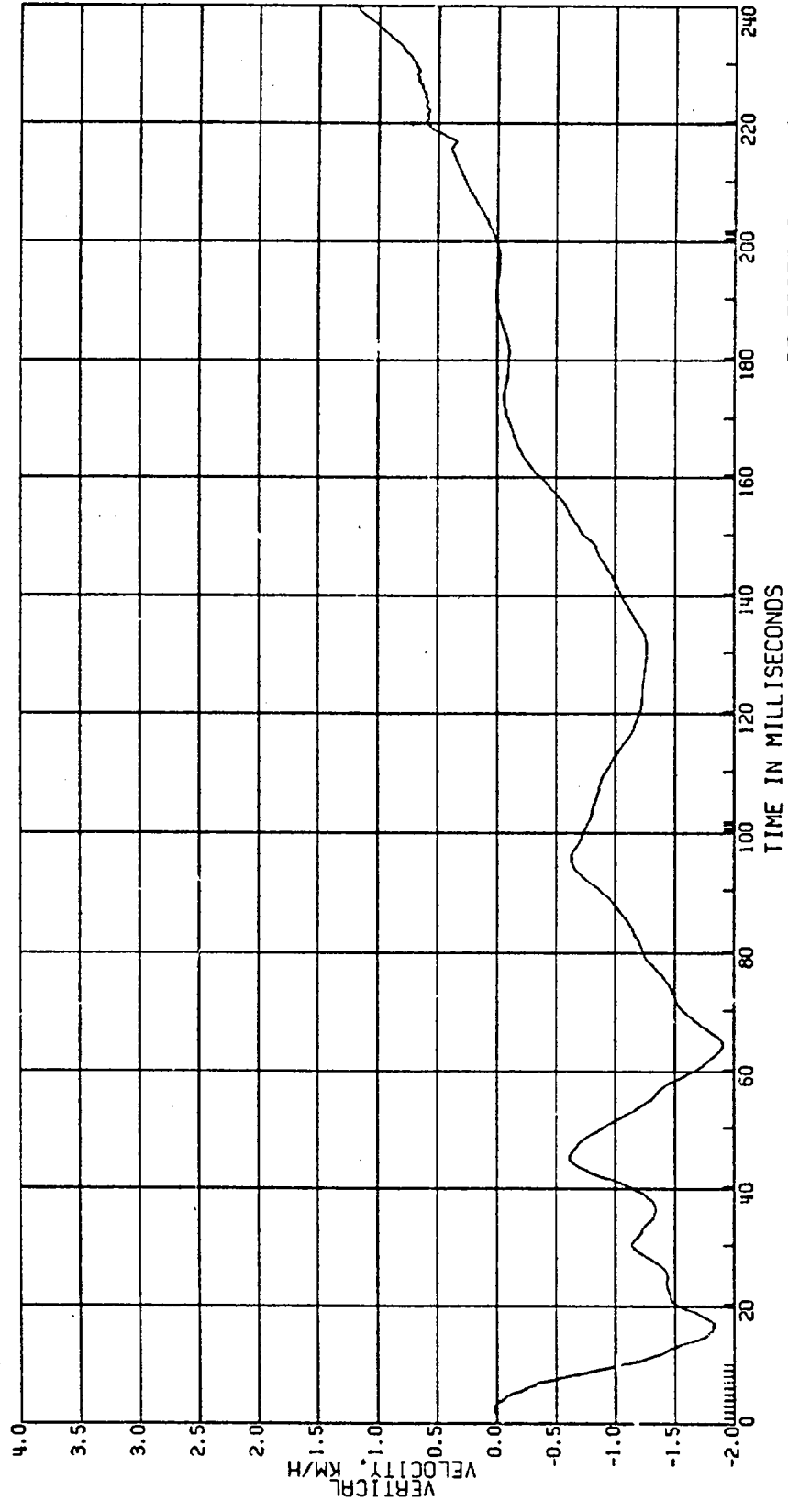
(1ST INTEGRAL PASS-SIDE ACCELERATION)



RELEASED BY: 7251
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CG109A RIGHT SIDE IMPACT
3865-840
F.B. NHTSA BARR. STRIKING VEH
A-D DATA SAE CLASS 180

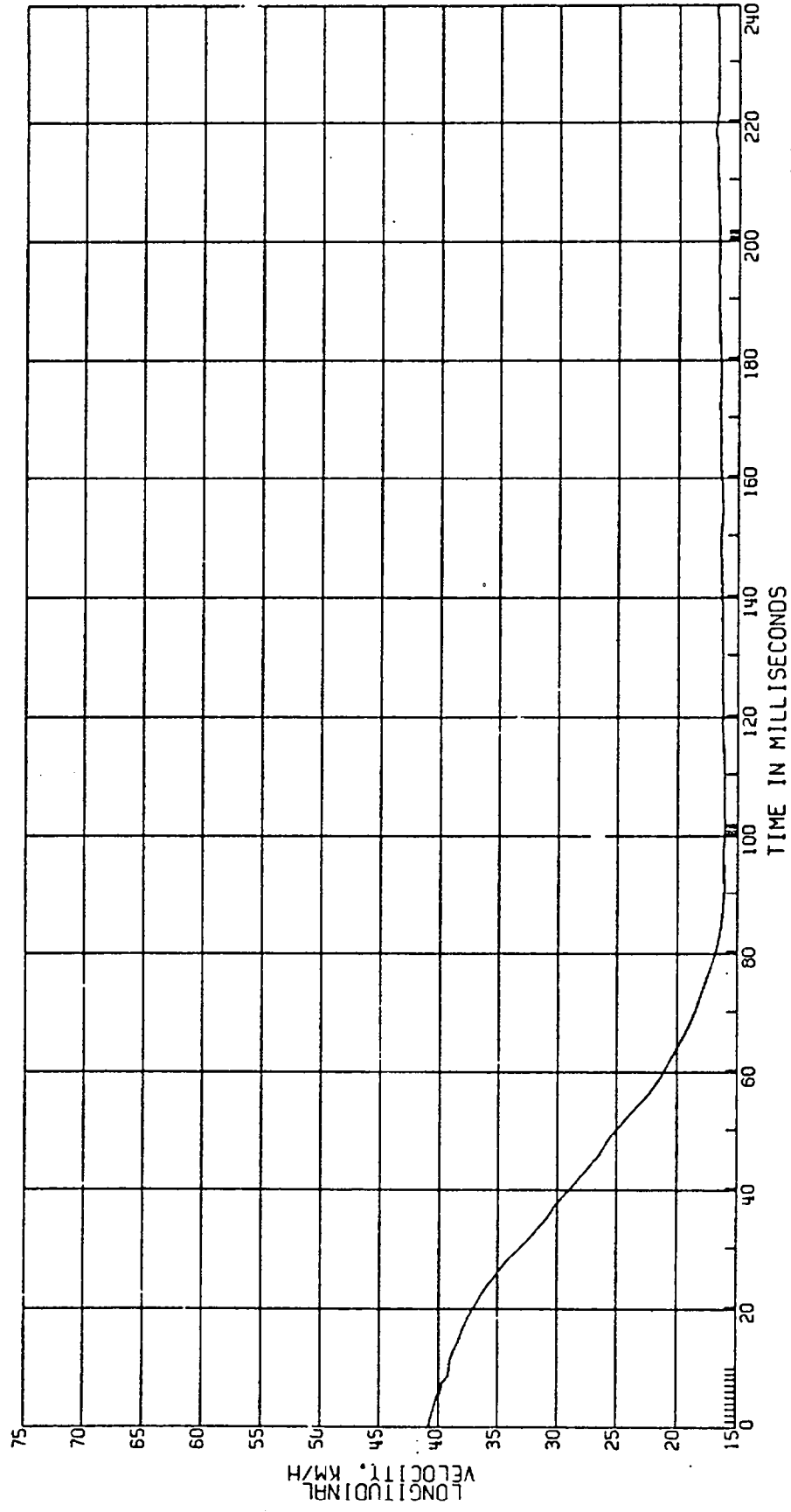
MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 94
COMPUTED FRONT OF BARRIER VELOCITY
(1ST INTEGRAL PASS-SIDE ACCELERATION)
TEST DATE:12-10-84



RELEASED BY: JJA
23 PROCESSED 11 DE 84 20:47

CG109A RIGHT SIDE IMPACT
3865-840
F.B. NHTSA BARR. STRIKING VEH
A-D DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 95
COMPUTED FRONT OF BARRIER VELOCITY
(1ST INTEGRAL AVERAGED ACCELERATION)
TEST DATE: 12-10-84



RELEASED BY: J21
8 PROCESSED 11 DE 84 20:39

CG109A RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE

40.8 KM/H FIGURE 96

3865-840

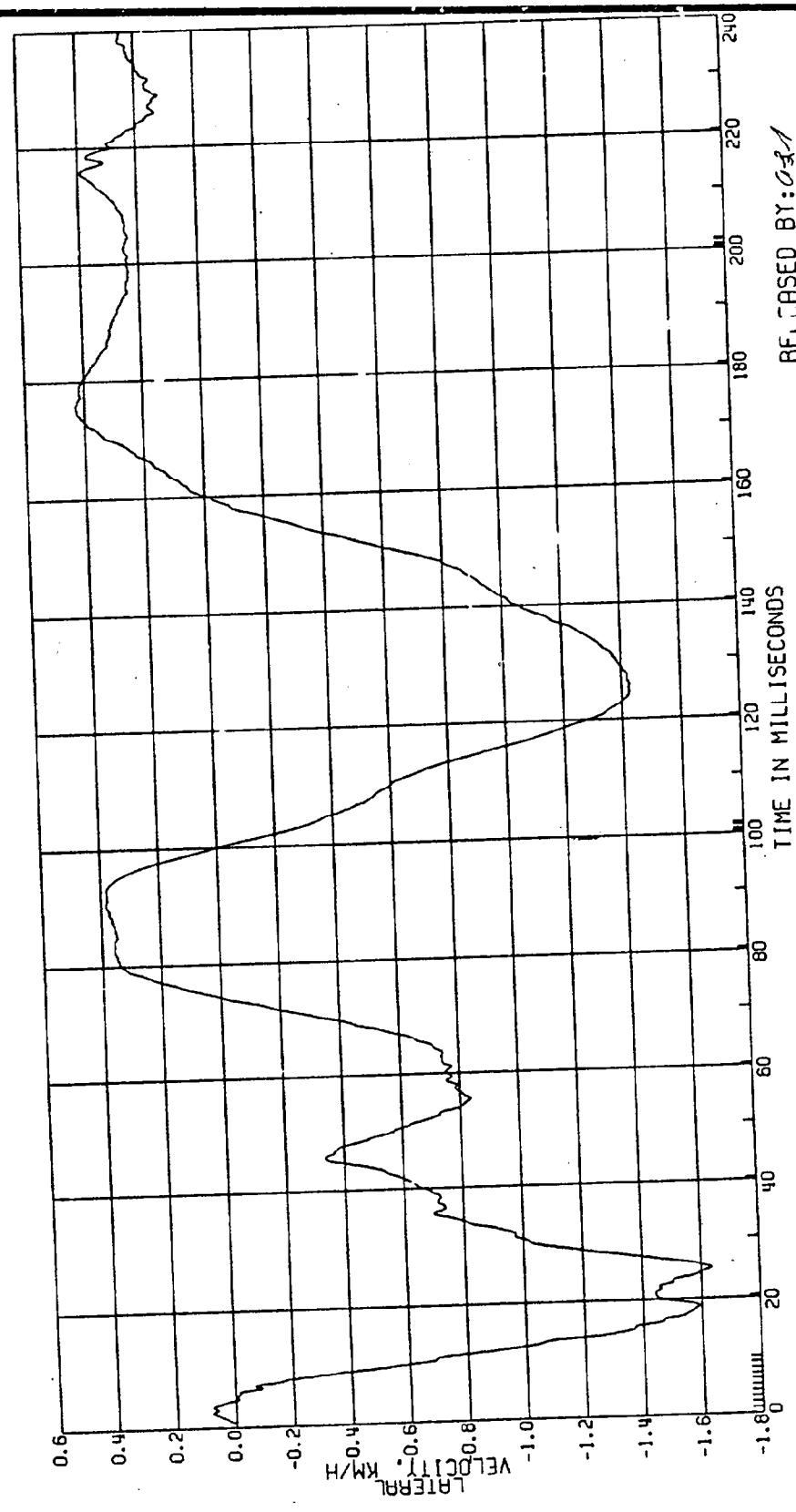
COMPUTED FRONT OF BARRIER VELOCITY

TEST DATE: 12-10-84

F.B. N.T.S.A BARR. STRIKING VEH

(1ST INTEGRAL AVERAGED ACCELERATION)

A-D DATA SAE CLASS 180

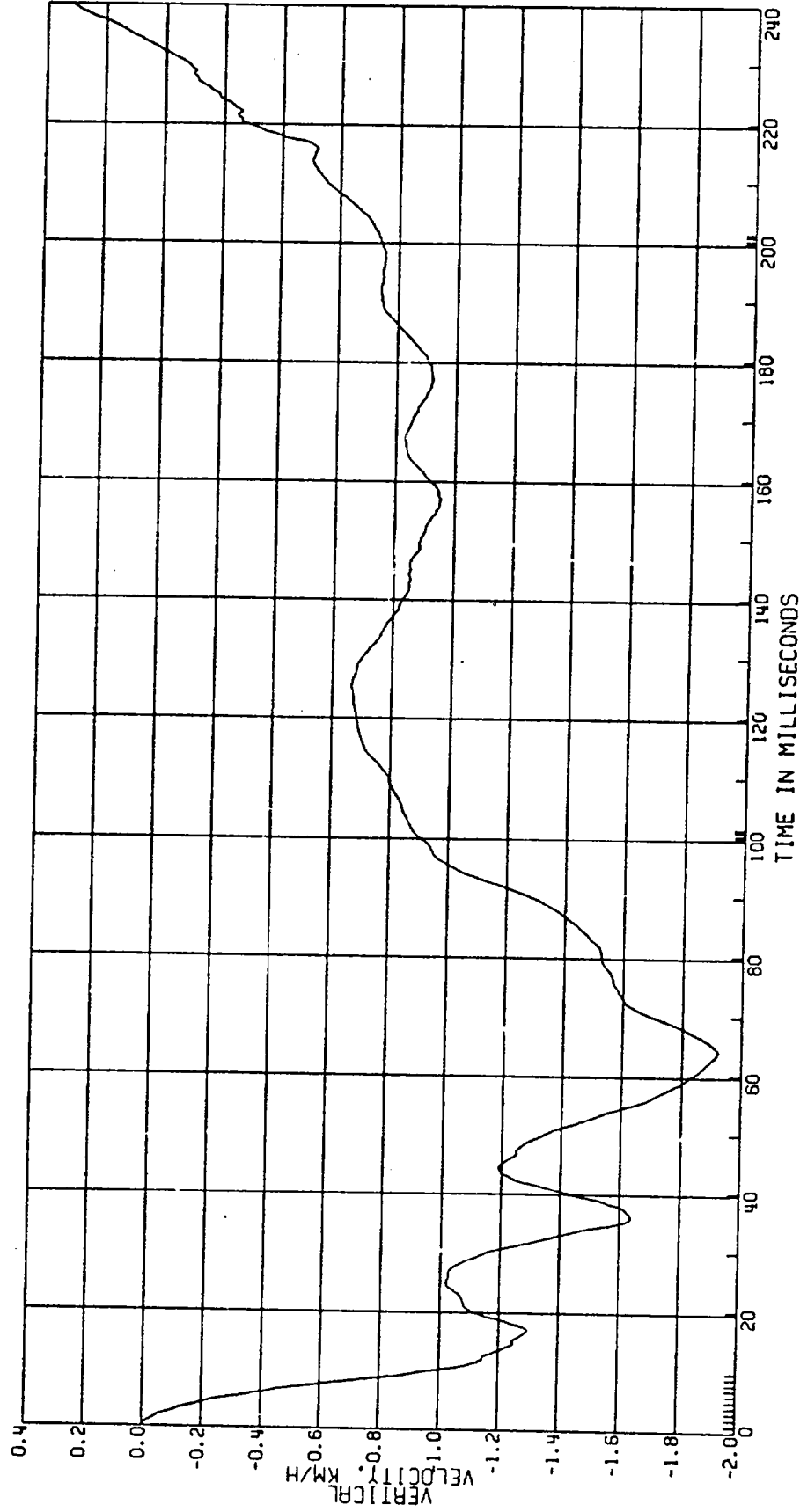


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CG109A RIGHT SIDE IMPACT
3865-840
F.B. NHTSA BARR. STRIKING VEH
A-D DATA SAE CLASS 180

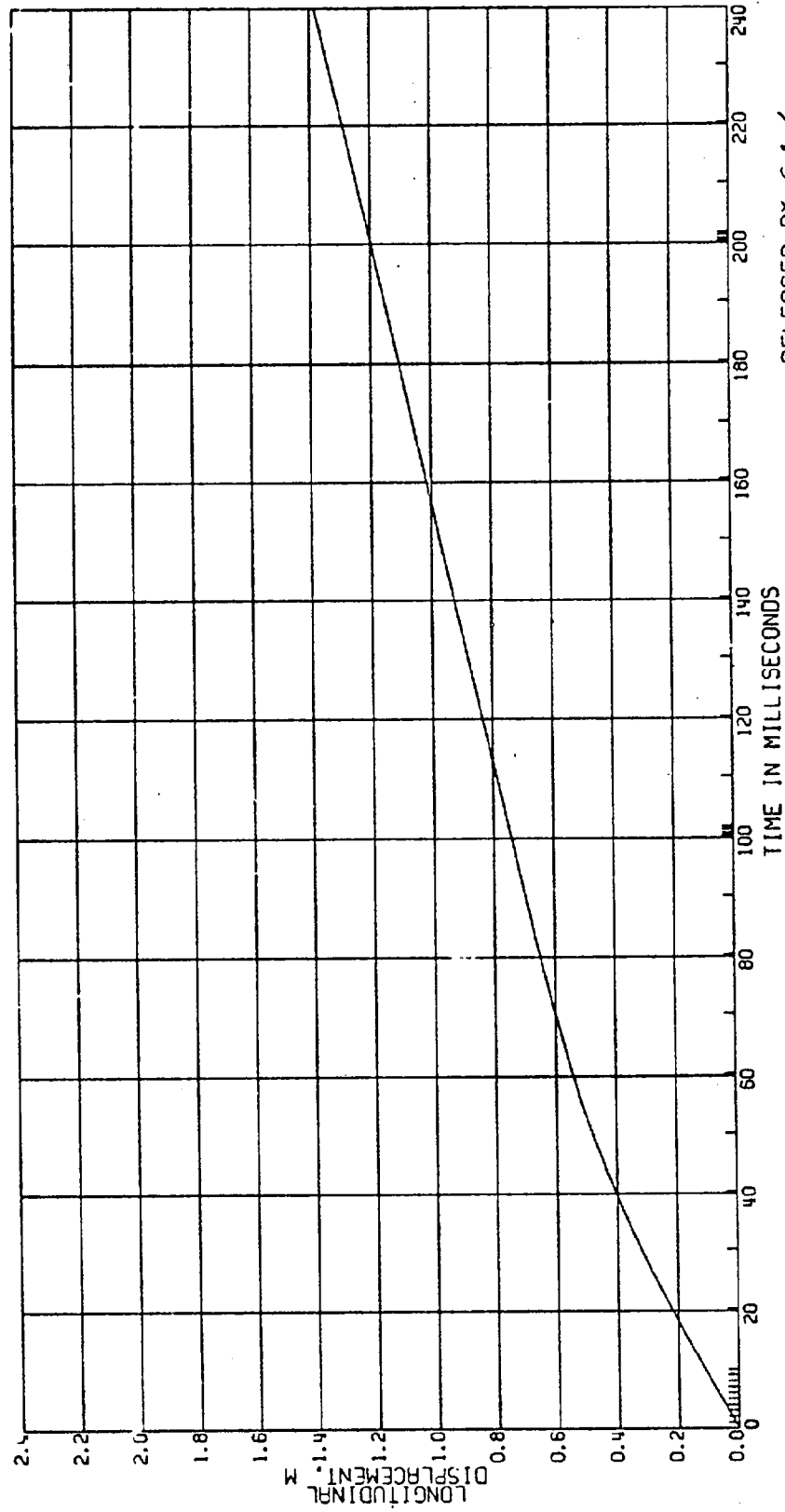
MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 97
COMPUTED FRONT OF BARRIER VELOCITY
(1ST INTEGRAL AVERAGED ACCELERATION)

TEST DATE: 12-10-84



RELEASED BY: 121
26 PROCESSED 11 DE 84 20:48

CG109A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 98
3865-840
F.B. NHTSA BARR. STRIKING VEH
A-D DATA SAE CLASS 180
COMPUTED FRONT OF BARRIER DISPLACEMENT TEST DATE: 12-10-84
(2ND INTEGRAL DR-SIDE ACCELERATION)

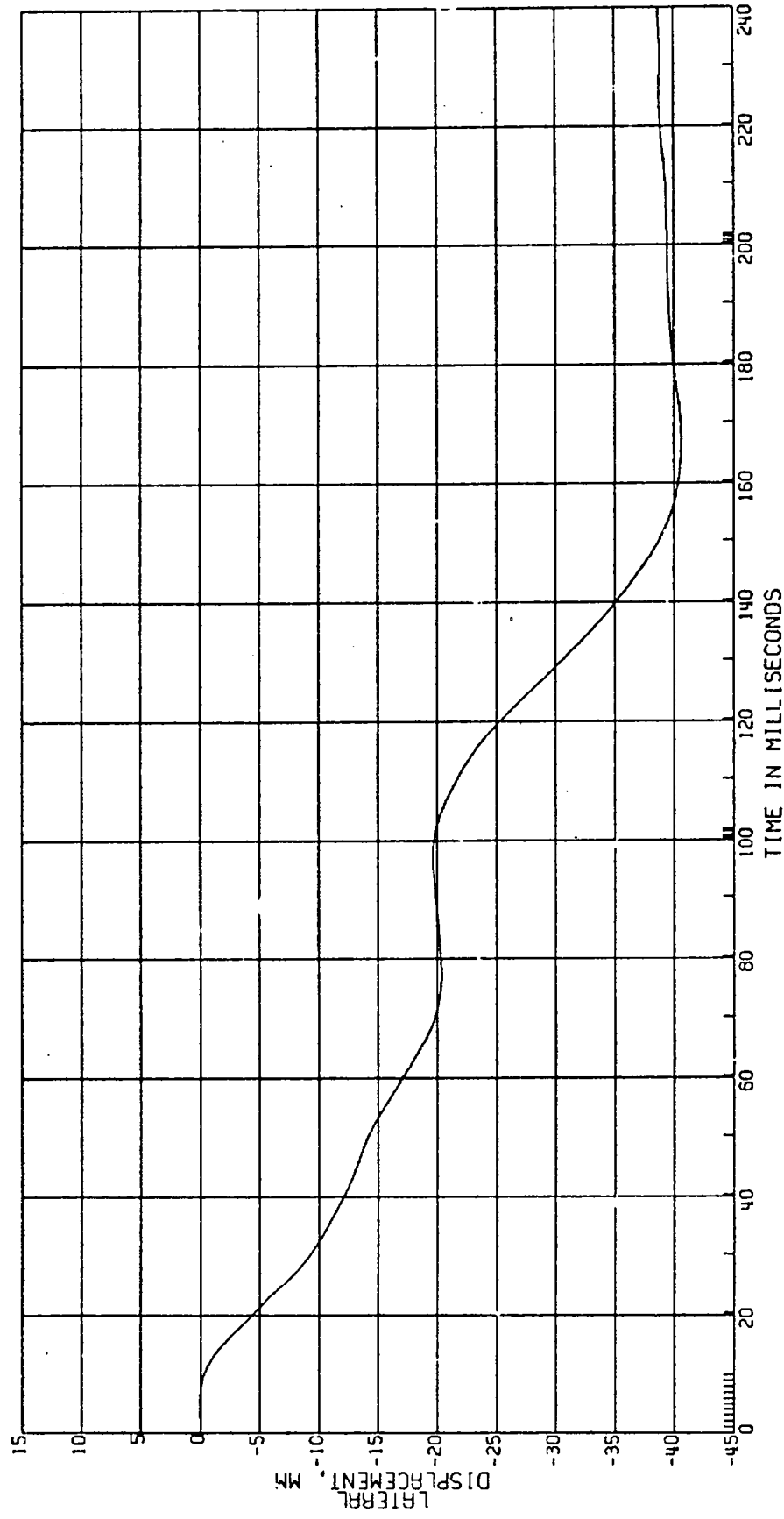


RELEASED BY: *7/1*
3 PROCESSED 11 DE 84 20:37

CG109A RIGHT SIDE IMPACT
3865-840
F.B. NHTSA BARR. STRIKING VEH
A-D DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 99
COMPUTED FRONT OF BARRIER DISPLACEMENT
(2ND INTEGRAL DR-SIDE ACCELERATION)

TEST DATE: 12-10-84



RELEASED BY: *CSA*
12 PROCESSED 11 DE 84 20:41

CG109A RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 200

3865-840

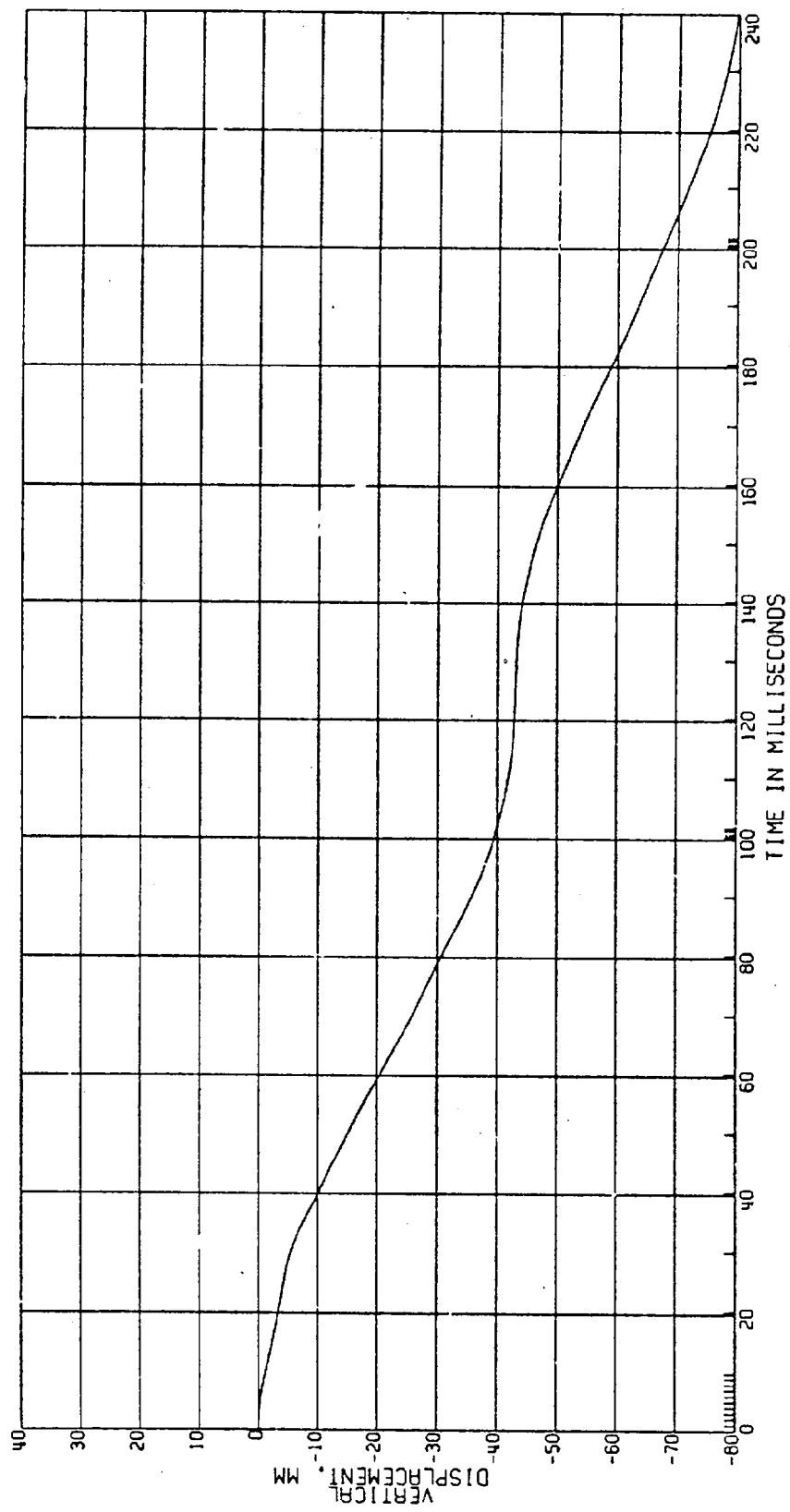
F.B. NHTSA BARR. STRIKING VEH

COMPUTED FRONT OF BARRIER DISPLACEMENT

TEST DATE: 12-10-84

A-D DATA SAE CLASS 180

(2ND INTEGRAL DR-SIDE ACCELERATION)



RELEASED BY: J. J. /
2 PROCESSED 12 DE 84 05.14

CG109A RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE

40.8KM/H FIGURE 101

3865-840

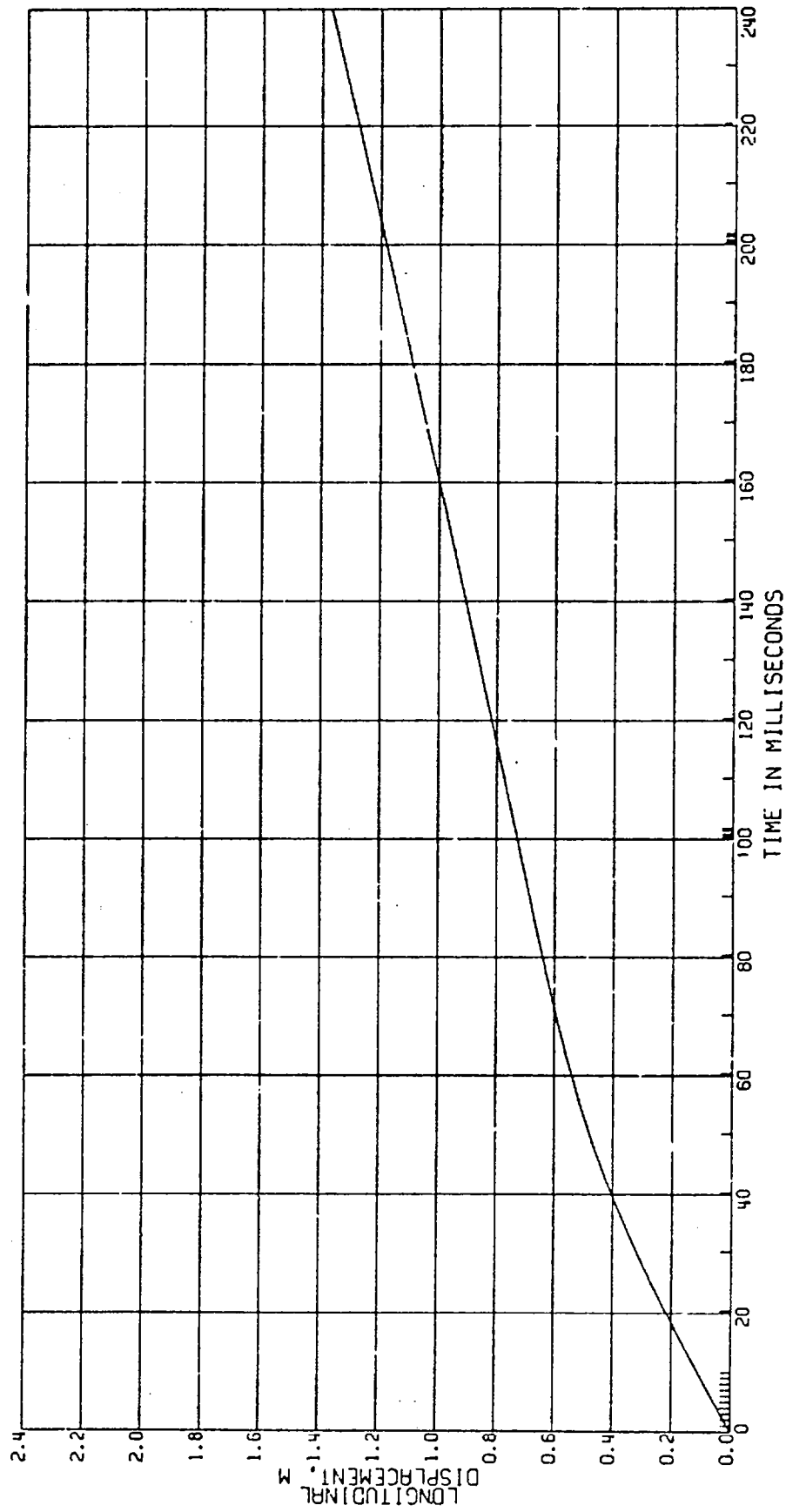
F.B. NHTSA BARR. STRIKING VEH

COMPUTED FRONT OF BARRIER DISPLACEMENT

TEST DATE: 12-10-84

A-D DATA SAE CLASS 180

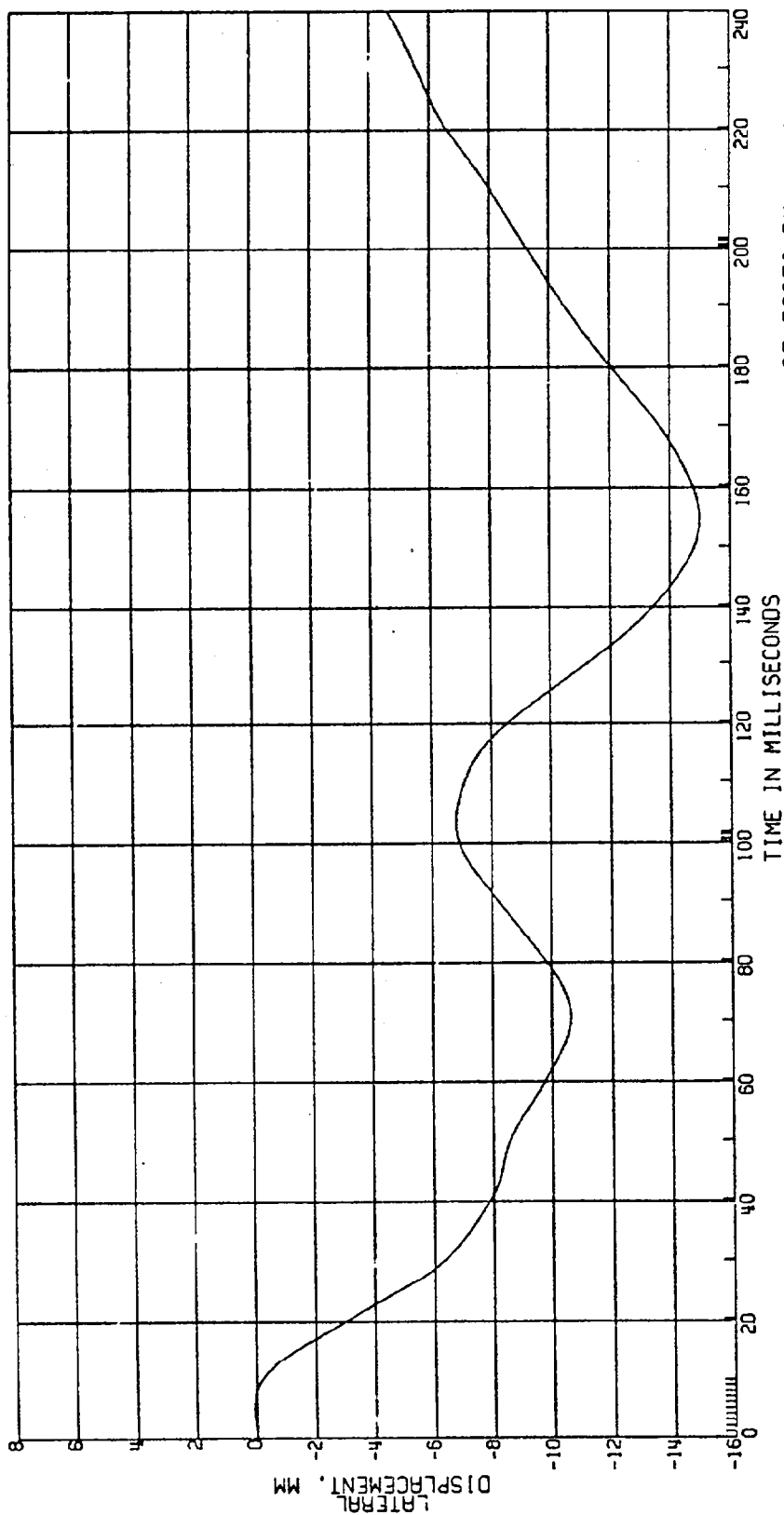
(2ND INTEGRAL PASS-SIDE ACCELERATION)



RELEASED BY: JZ

6 PROCESSED 11 DE 84 20:38

CG109A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 40.8 KM/H FIGURE 102
3865-840
F.B. NHTSA BARR. STRIKING VEH COMPUTED FRONT OF BARRIER DISPLACEMENT TEST DATE: 12-10-84
A-D DATA SAE CLASS 180 (2ND INTEGRAL PASS-SIDE ACCELERATION)



RELEASED BY: C-21
15 PROCESSED 11 DE 84 20:42

C6109A RIGHT SIDE IMPACT
3865-840

F.B. NHTSA BARR. STRIKING VEH
A-D DATA SAE CLASS 180

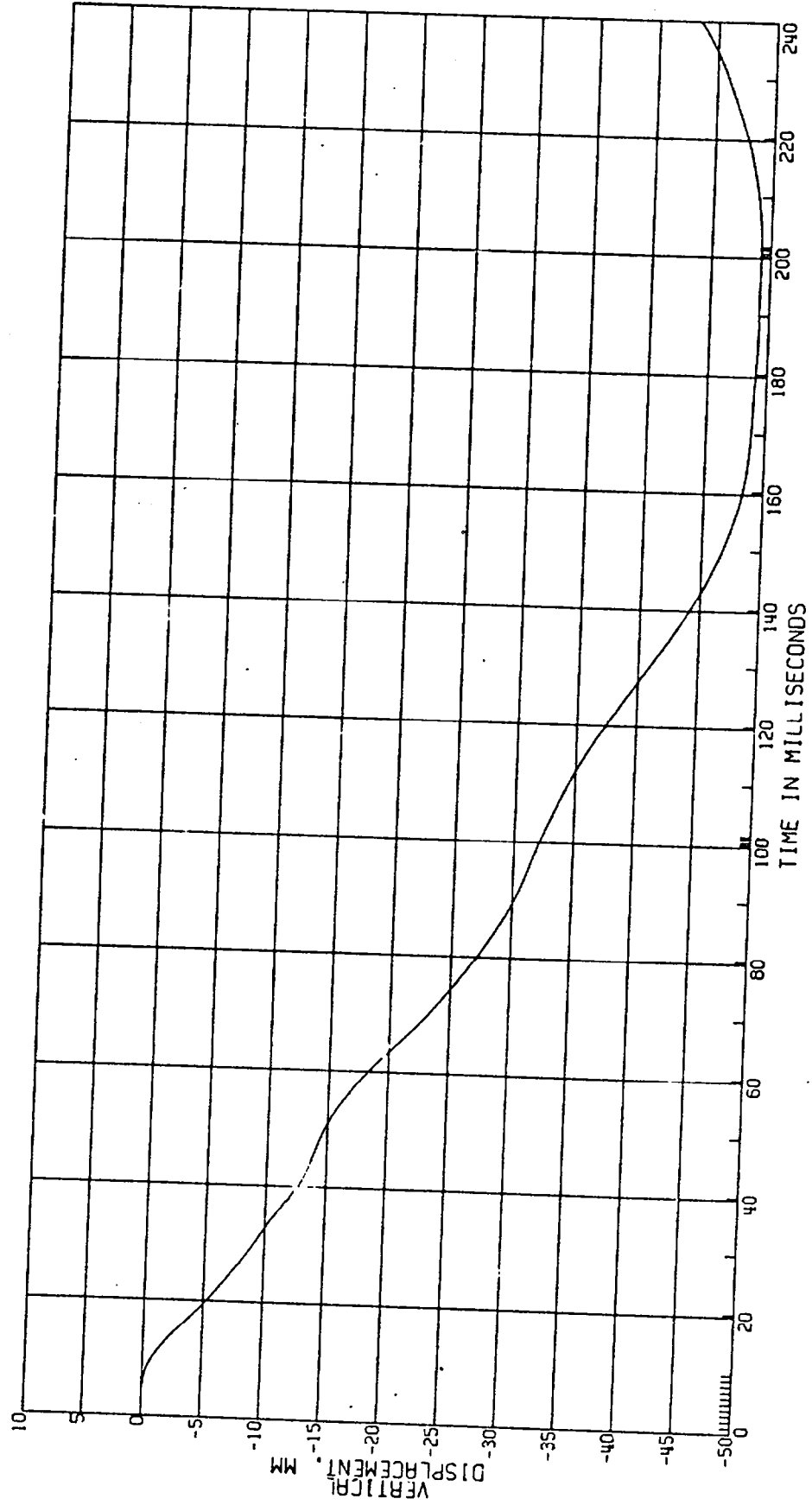
MOVING BARRIER TO PARKED VEHICLE

40.8KM/H FIGURE 103

COMPUTED FRONT OF BARRIER DISPLACEMENT

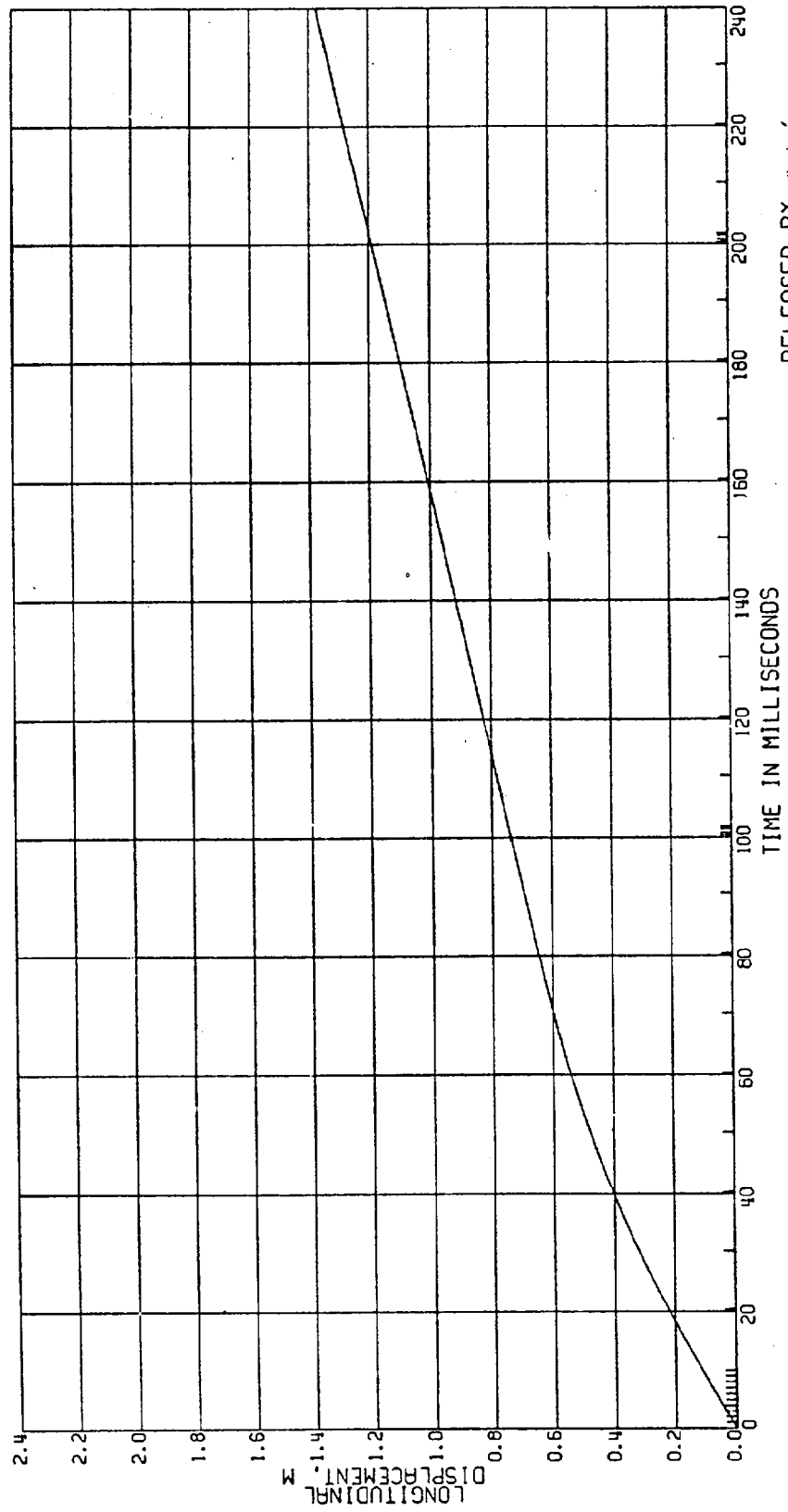
TEST DATE: 12-10-84

(2ND INTEGRAL PASS-SIDE ACCELERATION)



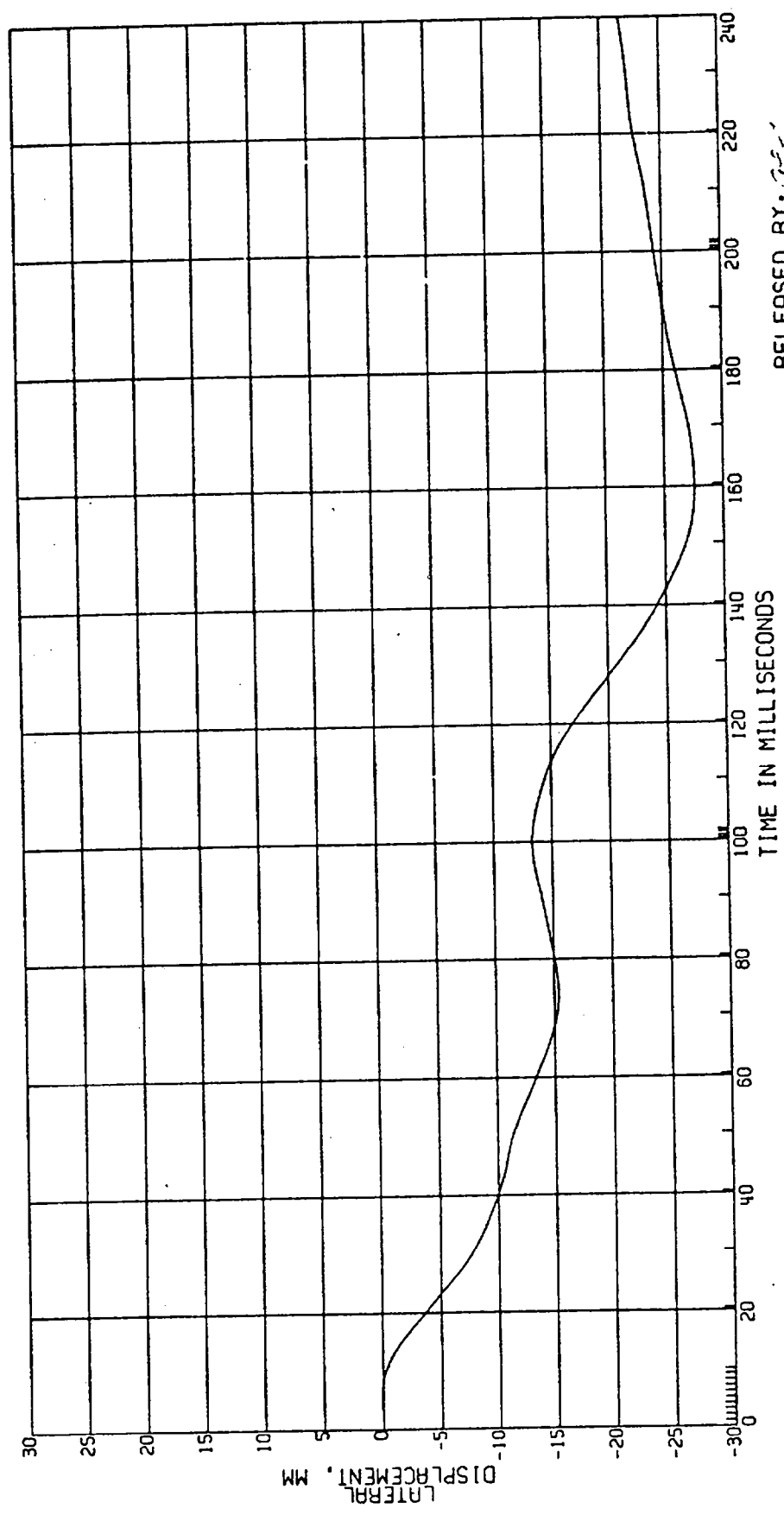
RELEASED BY: *7/2*
24 PROCESSED 11 DE 84 20:47

CG109A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 104
 3865-840
 F.B. NHTSA BARR. STRIKING VEH COMPUTED FRONT OF BARRIER DISPLACEMENT TEST DATE: 12-10-84
 A-D DATA SAE CLASS 180 (2ND INTEGRAL AVERAGED ACCELERATION)



CG109A RIGHT SIDE IMPACT
3865-840
F.B. NHTSA BARR. STRIKING VEH
A-D DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 105
COMPUTED FRONT OF BARRIER DISPLACEMENT
(2ND INTEGRAL AVERAGED ACCELERATION) TEST DATE: 12-10-84



RELEASED BY: J2
18 PROCESSED 11 DE 84 20:44

CG109A RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 106

3865-840

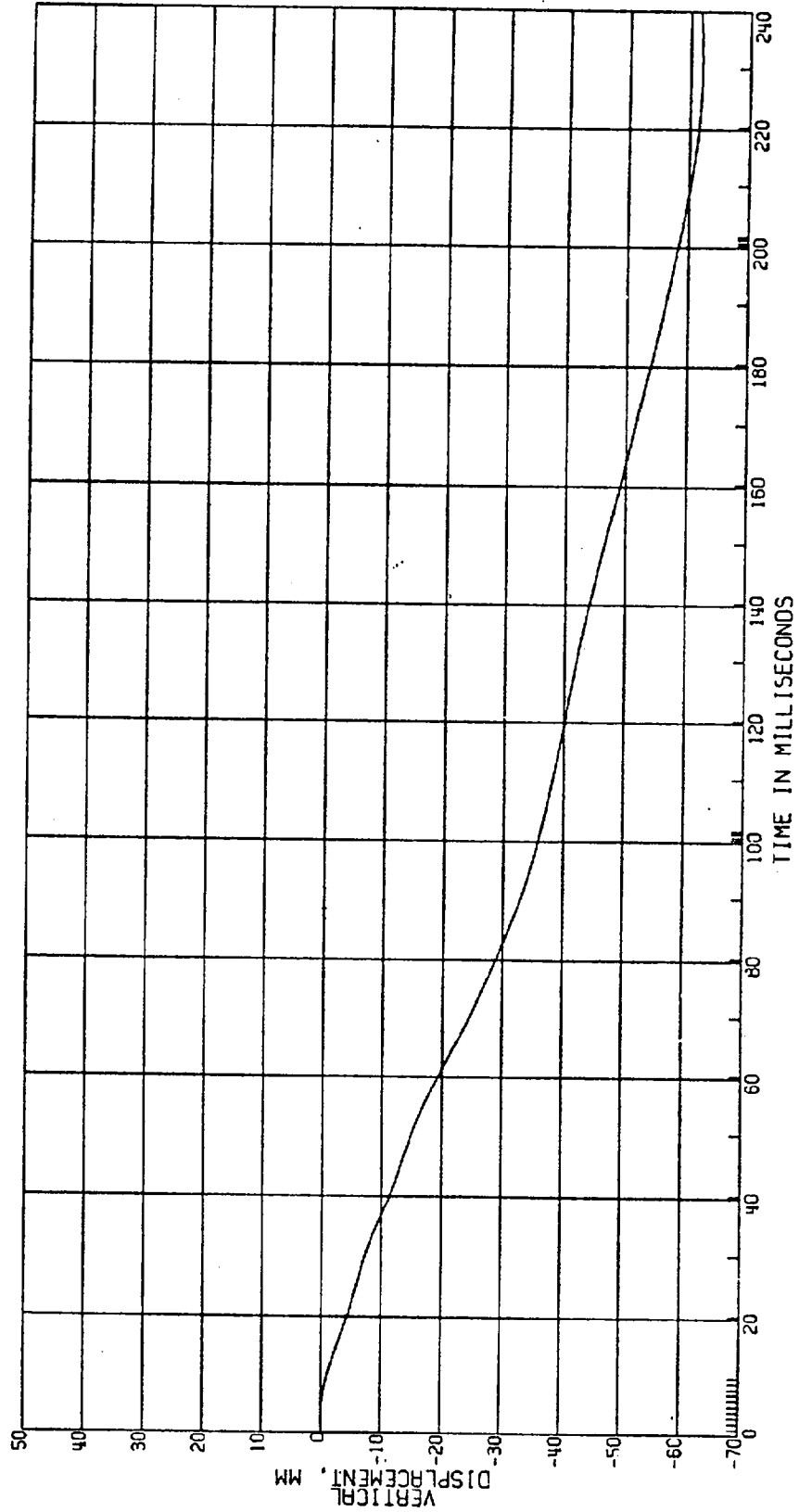
F.B. NHTSA BARR. STRIKING VEH

COMPUTED FRONT OF BARRIER DISPLACEMENT

TEST DATE: 12-10-84

A-D DATA SAE CLASS 180

(2ND INTEGRAL AVERAGED ACCELERATION)



RELEASED BY: 7-2-85
27 PROCESSED 11 DE 84 20:48

CG109A RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 101

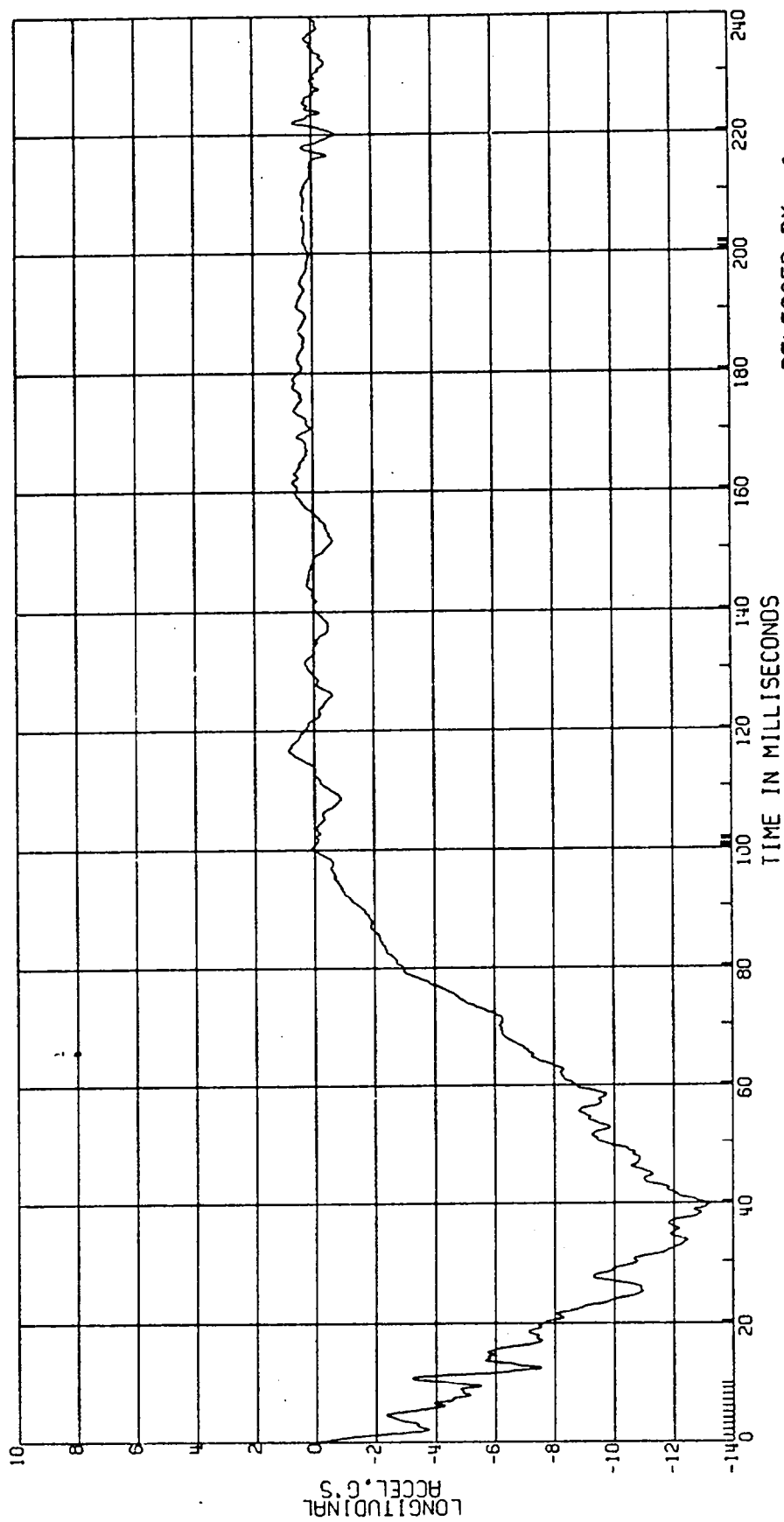
3865-840

F.B. NHTSA BARR. STRIKING VEH

DR-SIDE MIDDLE OF BARRIER ACCEL.

TEST DATE:12-10-84

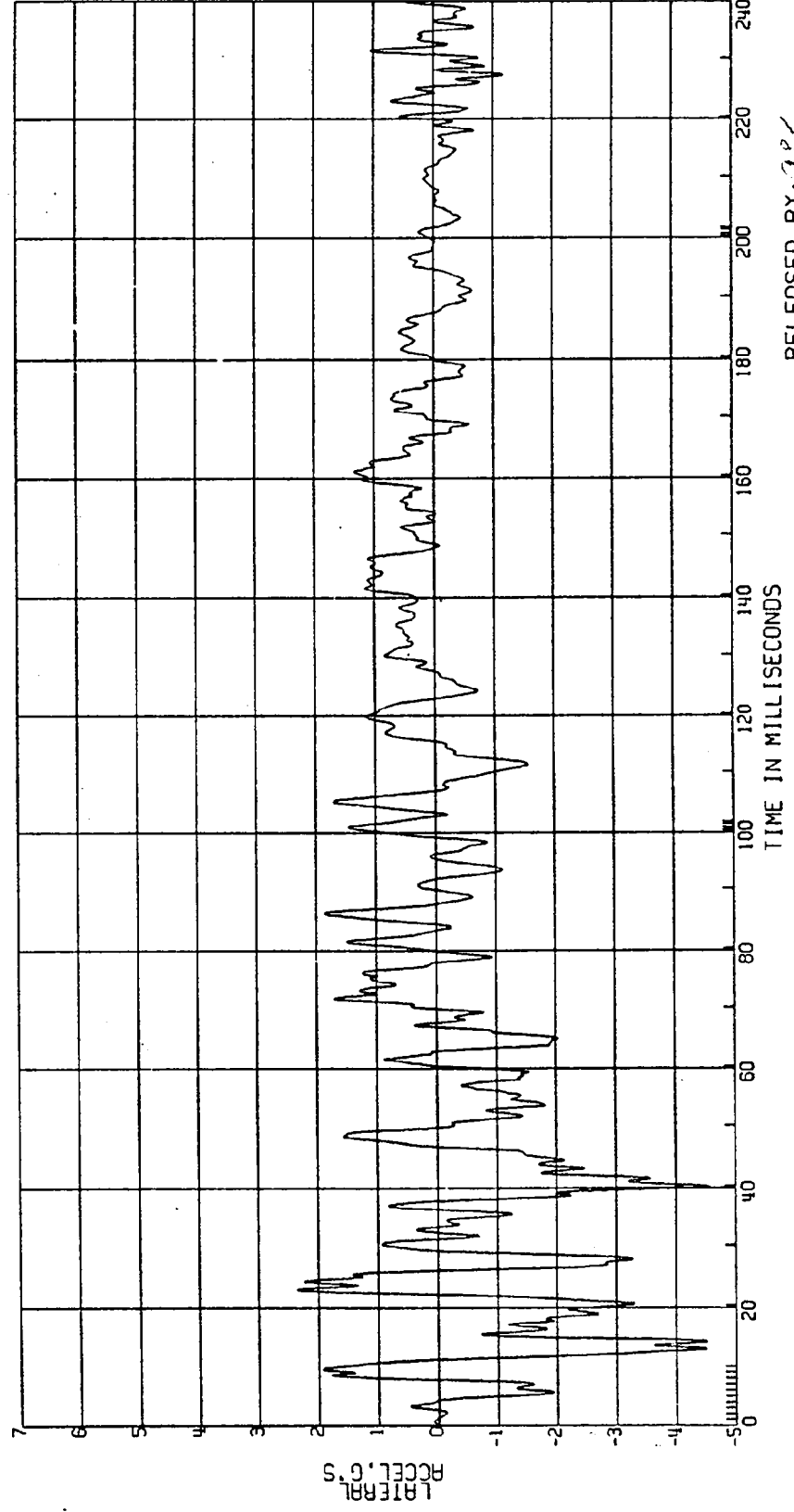
A-D DATA SAE CLASS 60



RELEASED BY:021

28 PROCESSED 11 DE 84 20:49

CG109A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 40.8 KM/H FIGURE 108
3865-840
F.B. NHTSA BARR. STRIKING VEH
A-D DATA SAE CLASS 60 DR-SIDE MIDDLE OF BARRIER ACCEL. TEST DATE: 12-10-84

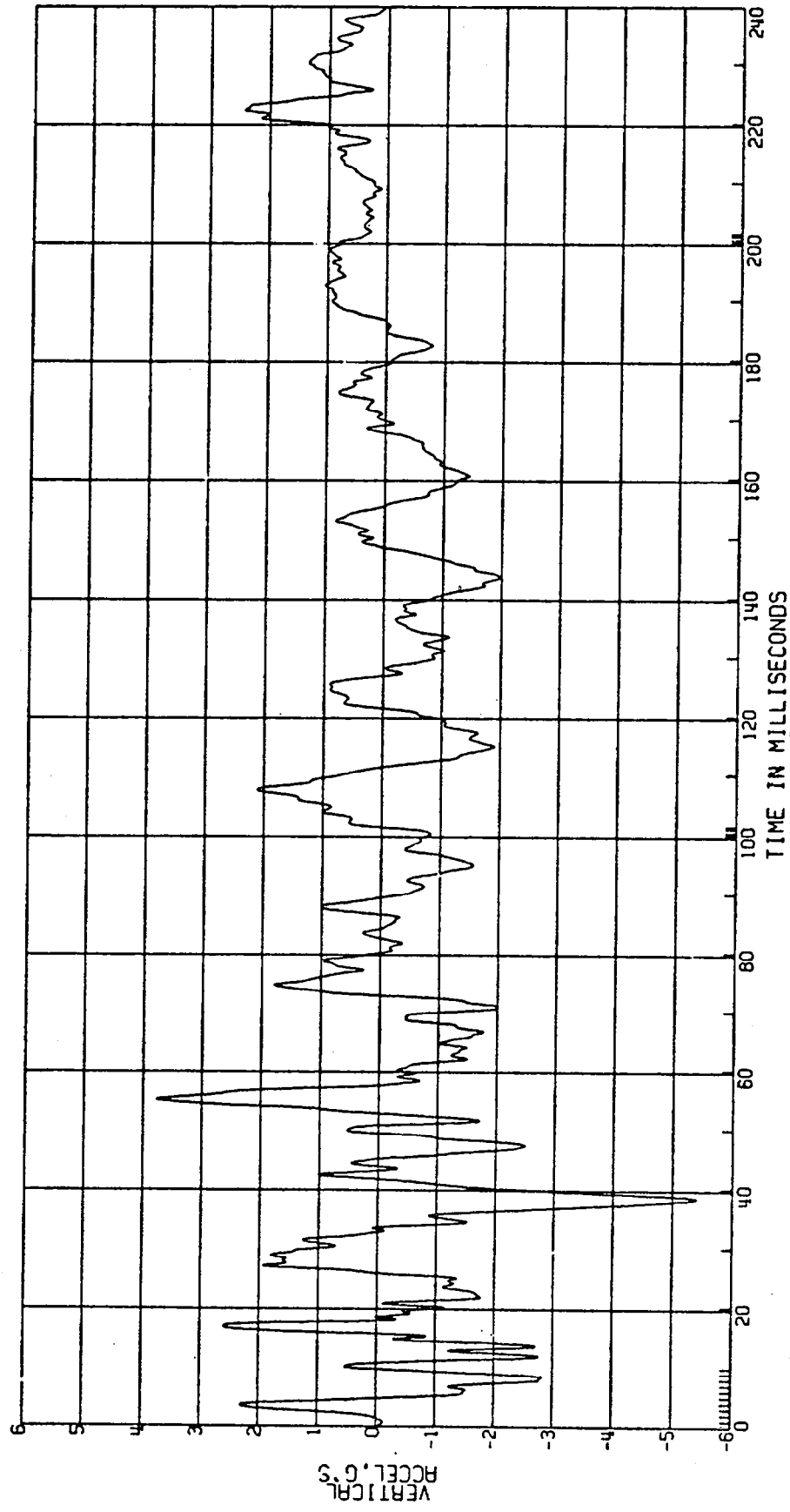


RELEASED BY: J.R.
37 PROCESSED 11 DE 84 20:51

CG109A RIGHT SIDE IMPACT
3865-840
F.B. NHTSA BARR. STRIKING VEH
A-D DATA SAE CLASS 60

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 109
DR-SIDE MIDDLE OF BARRIER ACCEL.

TEST DATE: 12-10-84

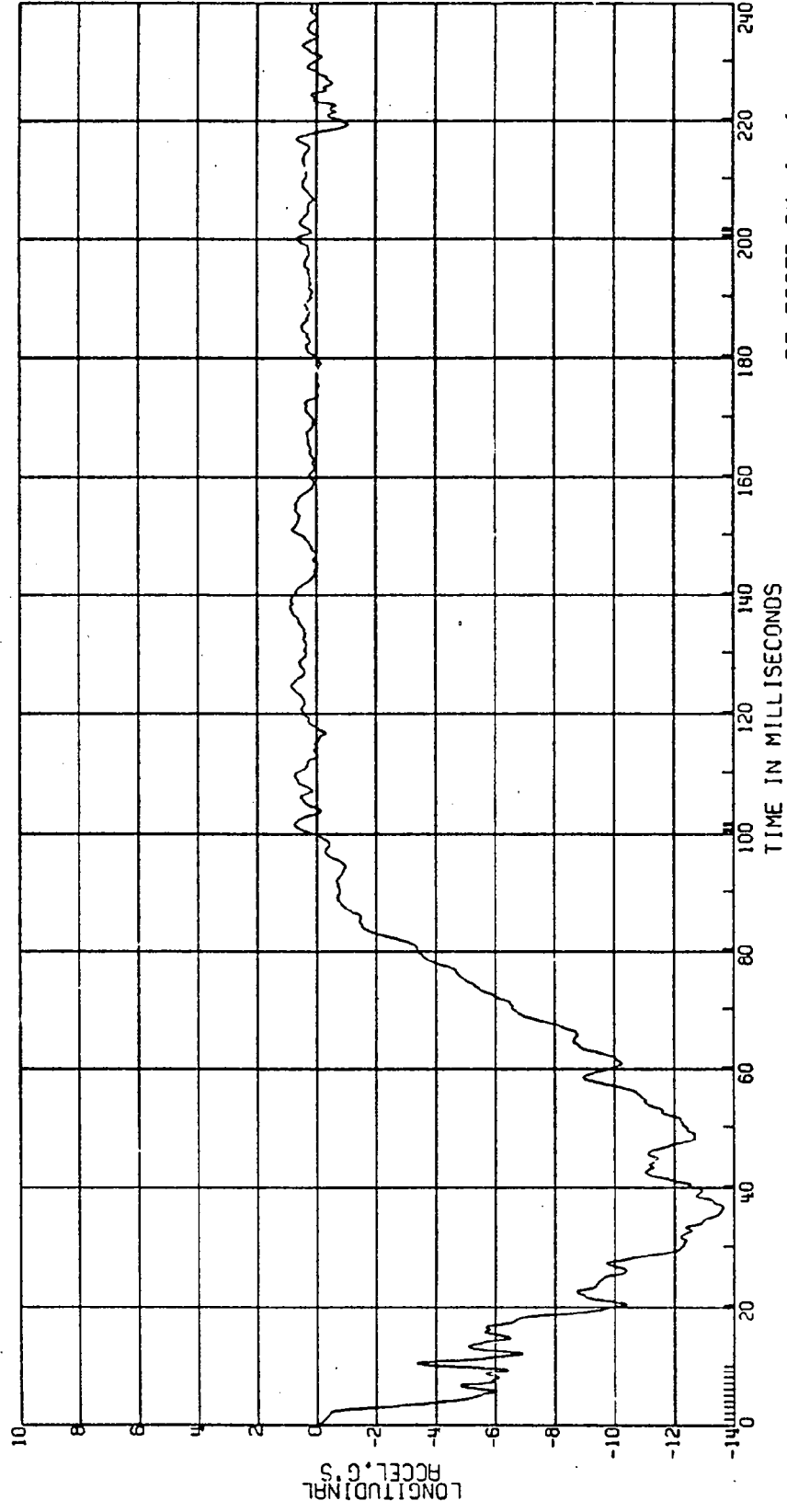


RELEASED BY: GJF

46 PROCESSED 11 DE 84 20:54

C6109A RIGHT SIDE IMPACT
3865-840
F.B. NHTSA BARR. STRIKING VEH
A-D DATA SAE CLASS 60

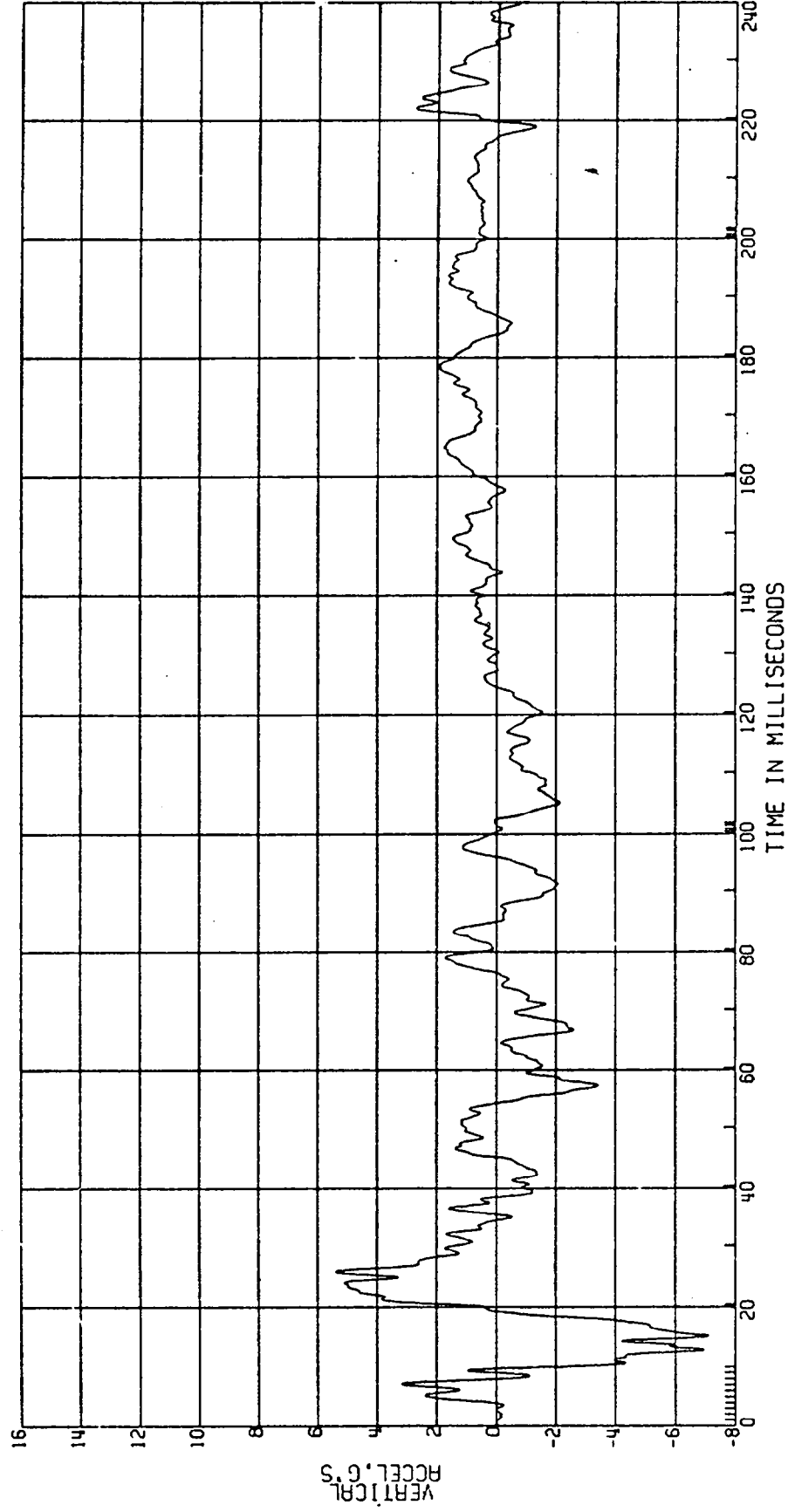
MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 110
PASS-SIDE MIDDLE OF BARRIER ACCEL.
TEST DATE: 12-10-84



RELEASED BY: 31
31 PROCESSED 11 DE 84 20:49

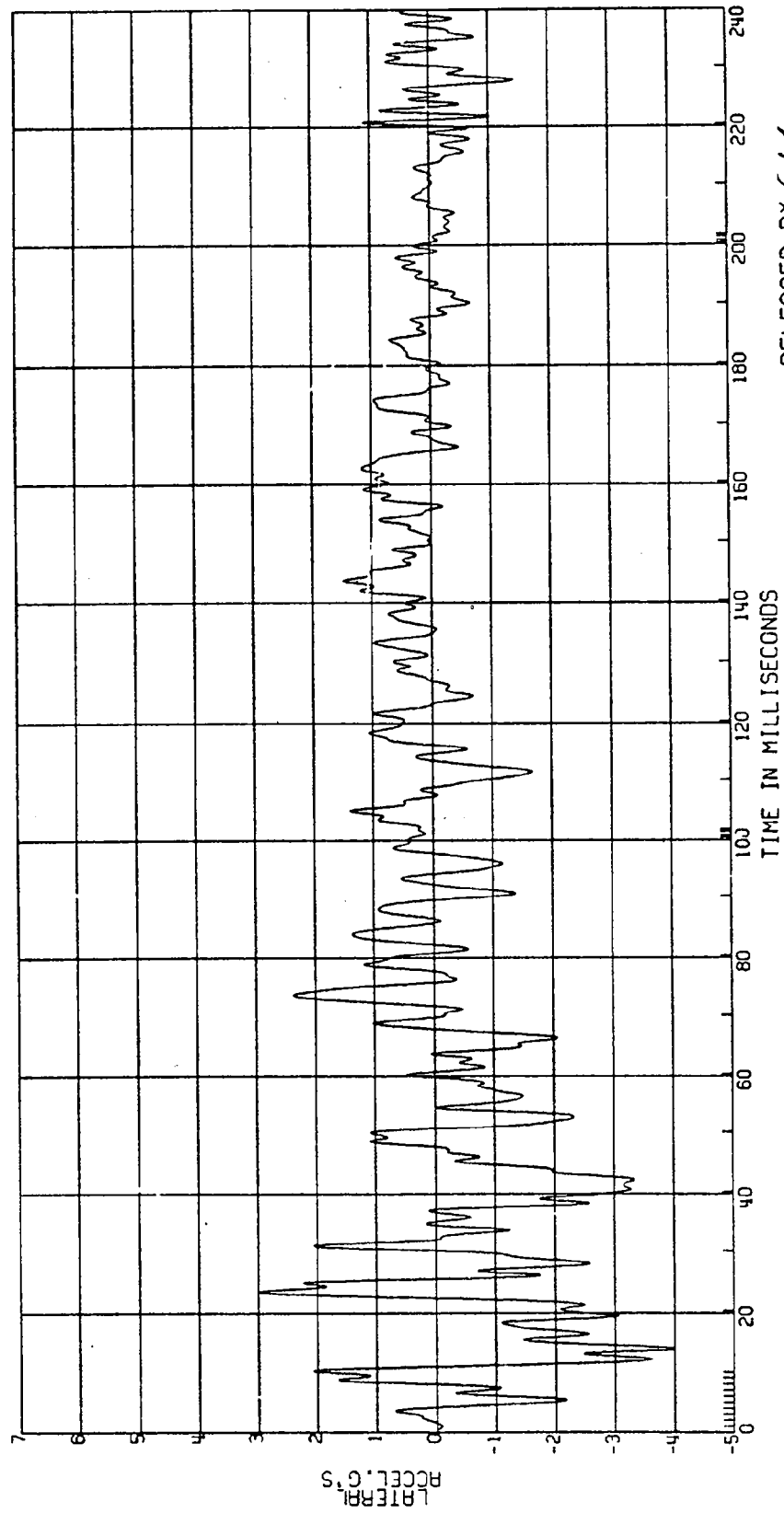
CG109A RIGHT SIDE IMPACT
3865-840
F.B. NHTSA BARR. STRIKING VEH
A-D DATA SAE CLASS 60

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 112
PASS-SIDE MIDDLE OF BARRIER ACCEL.
TEST DATE: 12-10-84



RELEASED BY: 441
49 PROCESSED 11 DE 84 20:55

CG109A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 111
3865-840
F.B. NHTSA BARR. STRIKING VEH
A-D DATA SAE CLASS 60 TEST DATE:12-10-84



RELEASED BY: 6-11
40 PROCESSED 11 DE 84 20:52

CG109A RIGHT SIDE IMPACT

3865-840

F.B. NHTSA BARR. STRIKING VEH

A-D DATA SAE CLASS 60

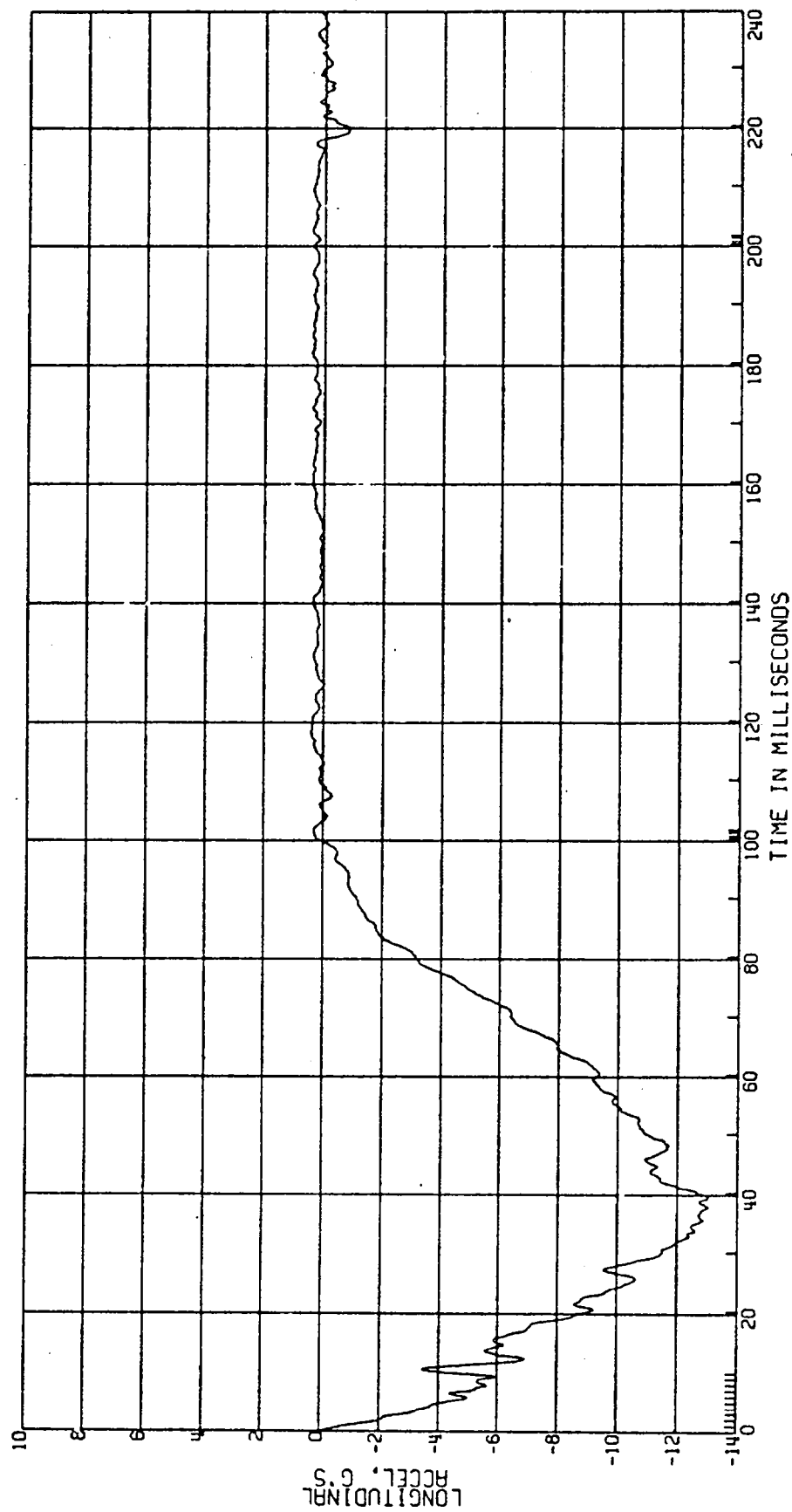
MOVING BARRIER TO PARKED VEHICLE

40.8KM/H FIGURE 113

AVERAGED DRIVER & PASSENGER SIDE

TEST DATE: 12-10-84

MIDDLE OF BARRIER ACCELERATION



RELEASED BY: 02-1

34 PROCESSED 11 DE 84 20:50

CG109A RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE

40.8 KM/H FIGURE 1-4

3865-840

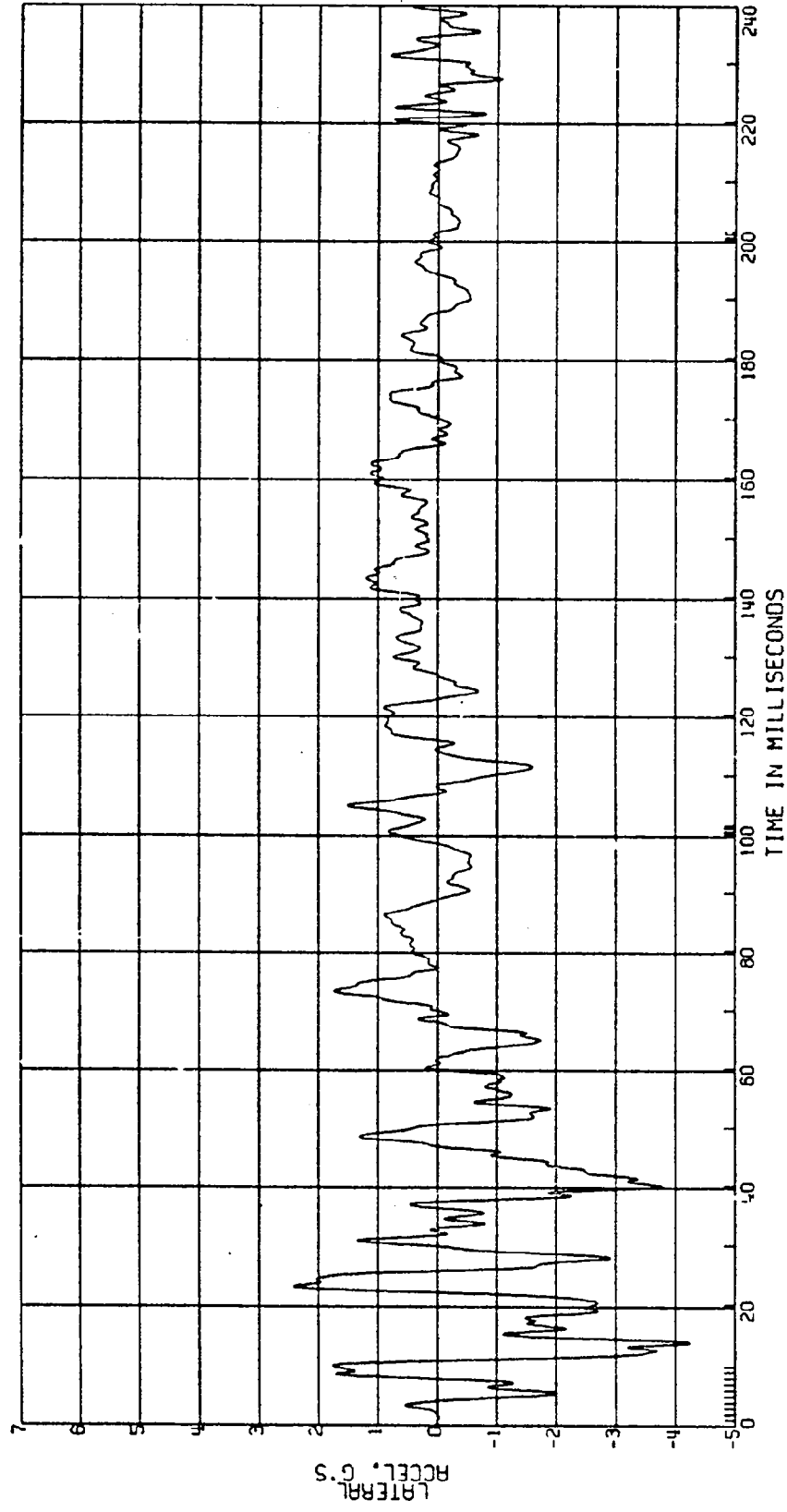
F.B. NHTSA BARR. STRIKING VEH

AVERAGED DRIVER & PASSENGER SIDE

TEST DATE: 12-10-84

A-D DATA SAE CLASS 60

MIDDLE OF BARRIER ACCELERATION

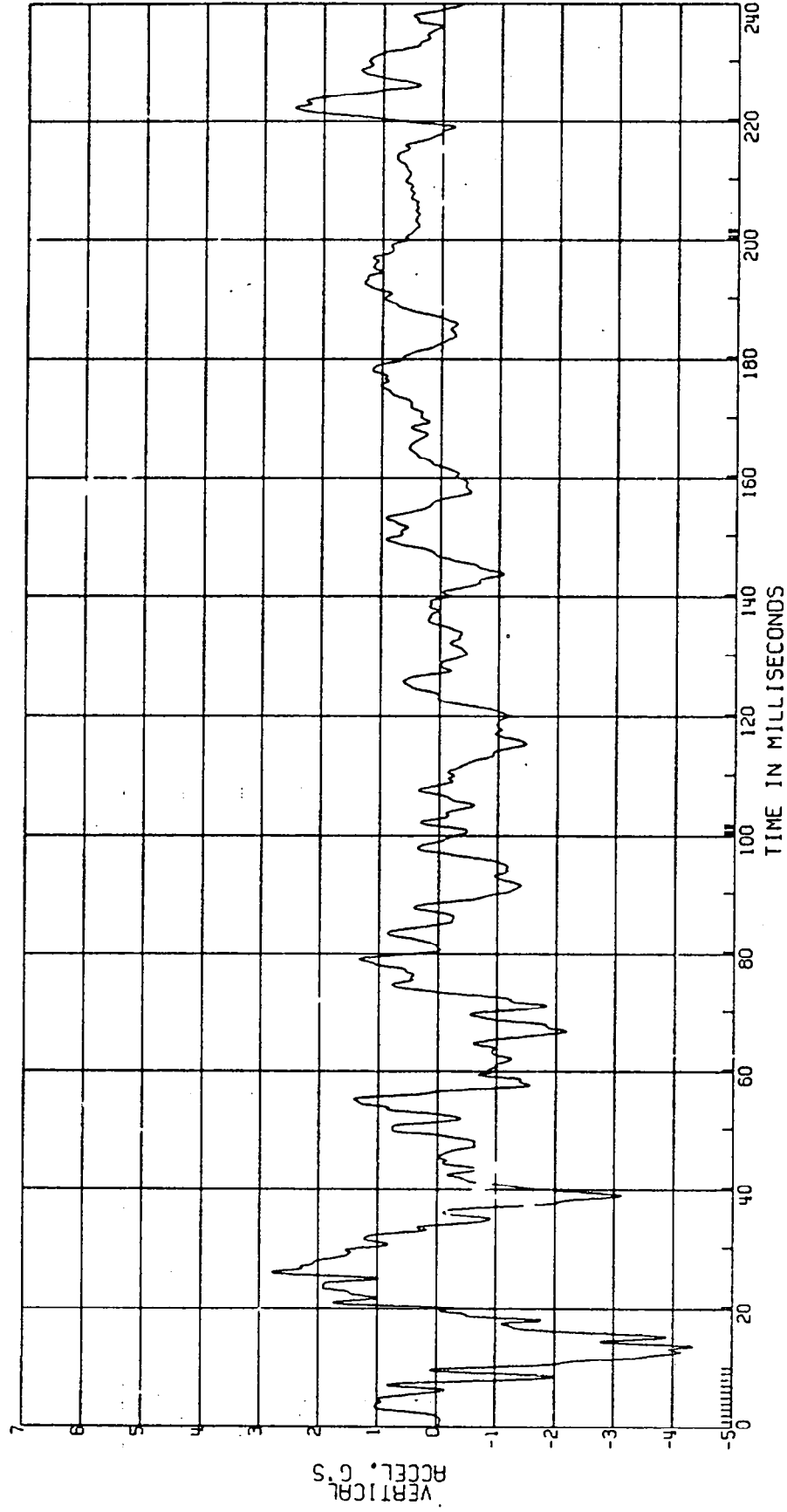


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43 PROCESSED 11 DE 84 20:53

CG109A RIGHT SIDE IMPACT
3865-840
F.B. NHTSA BARR. STRIKING VEH
A-D DATA SAE CLASS 60

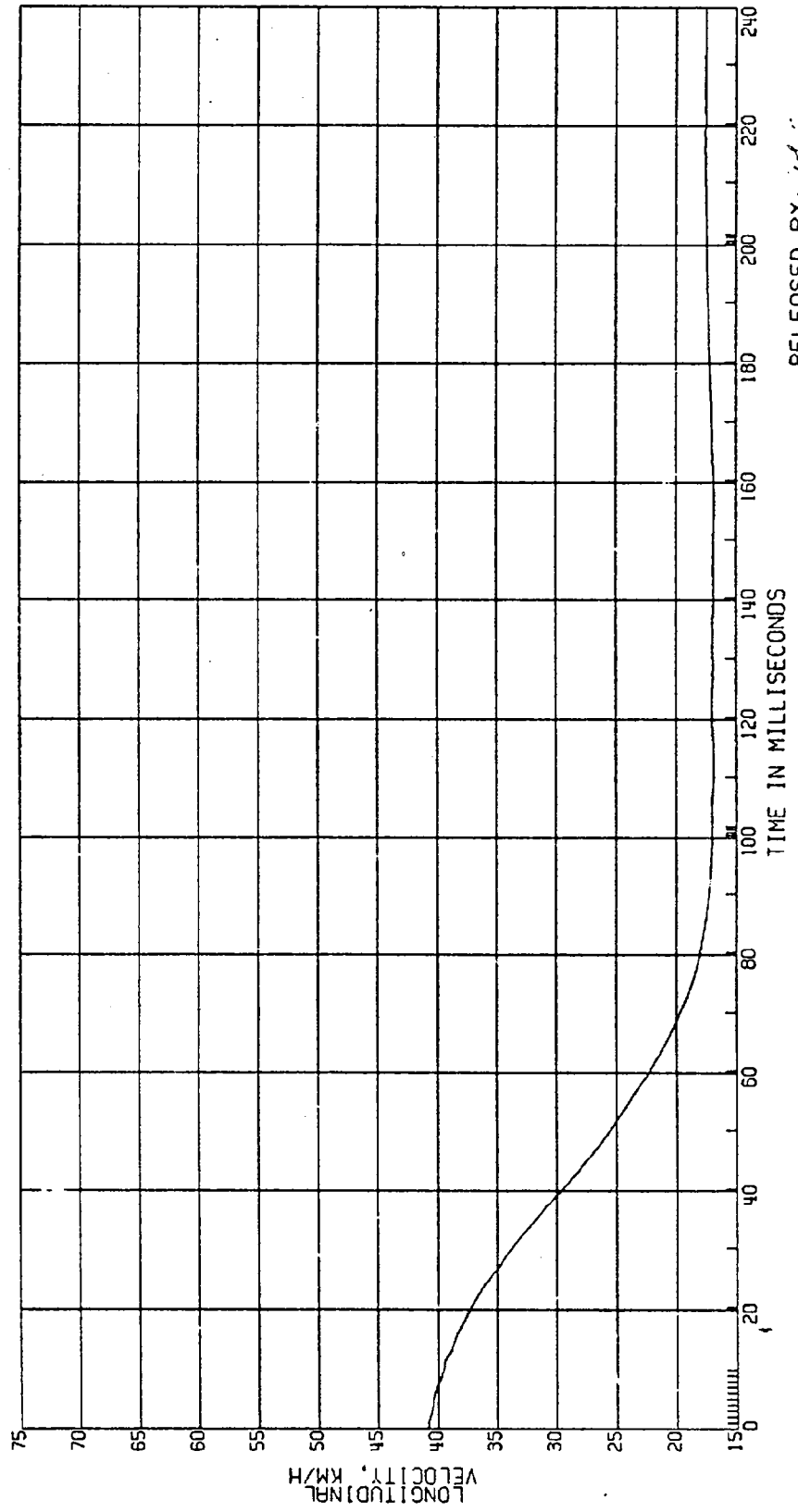
MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 115
AVERAGED DRIVER & PASSENGER SIDE
MIDDLE OF BARRIER ACCELERATION

TEST DATE: 12-10-84



RELEASED BY: 77-1
52 PROCESSED 11 DE 84 20:56

C6109A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 11c
 3865-840
 F.B. NHTSA BARR. STRIKING VEH COMPUTED MIDDLE OF BARRIER VELOCITY TEST DATE: 12-10-84
 A-D DATA SAE CLASS 180 (1ST INTEGRAL DR-SIDE ACCELERATION)



CG109A RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 417

3865-840

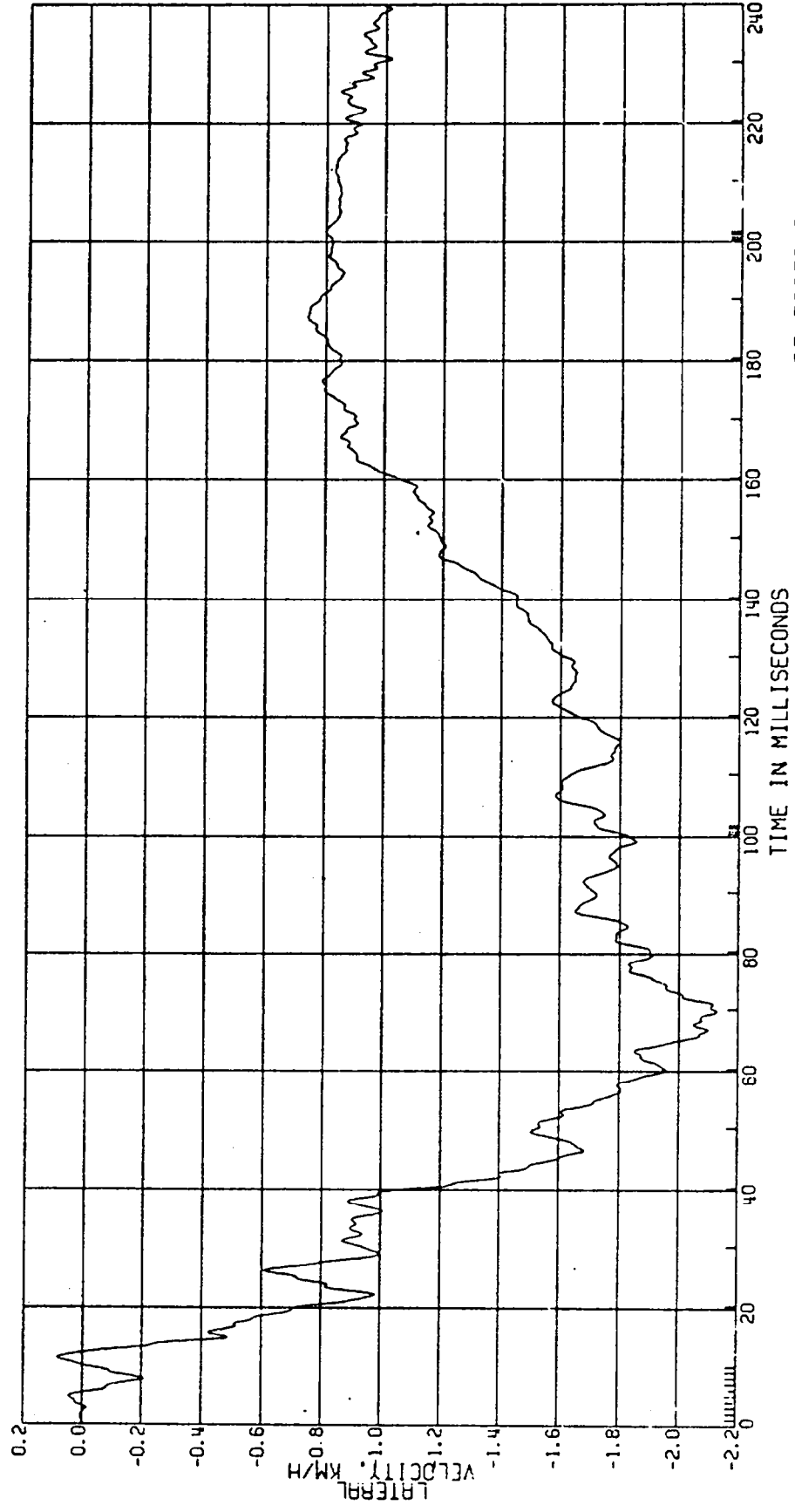
F.B. NHTSA BARR. STRIKING VEH

COMPUTED MIDDLE OF BARRIER VELOCITY

TEST DATE:12-10-84

A-D DATA SAE CLASS 180

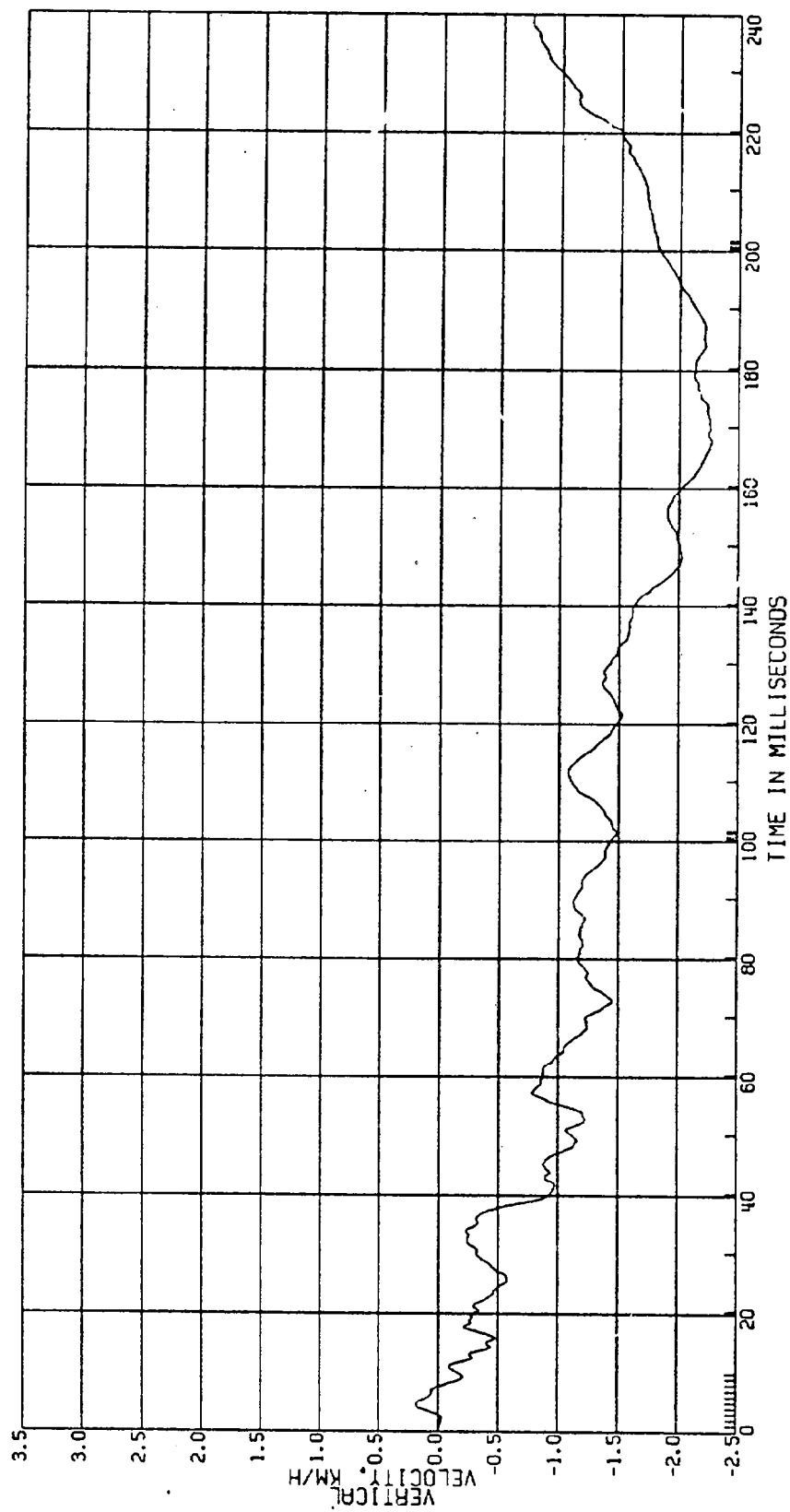
(1ST INTEGRAL DR-SIDE ACCELERATION)



RELEASED BY: *Q24*
38 PROCESSED 11 DE 84 20:51

C6109A RIGHT SIDE IMPACT
3865-840
F.B. NHTSA BARR. STRIKING VEH
A-0 DATA SAE CLASS 180

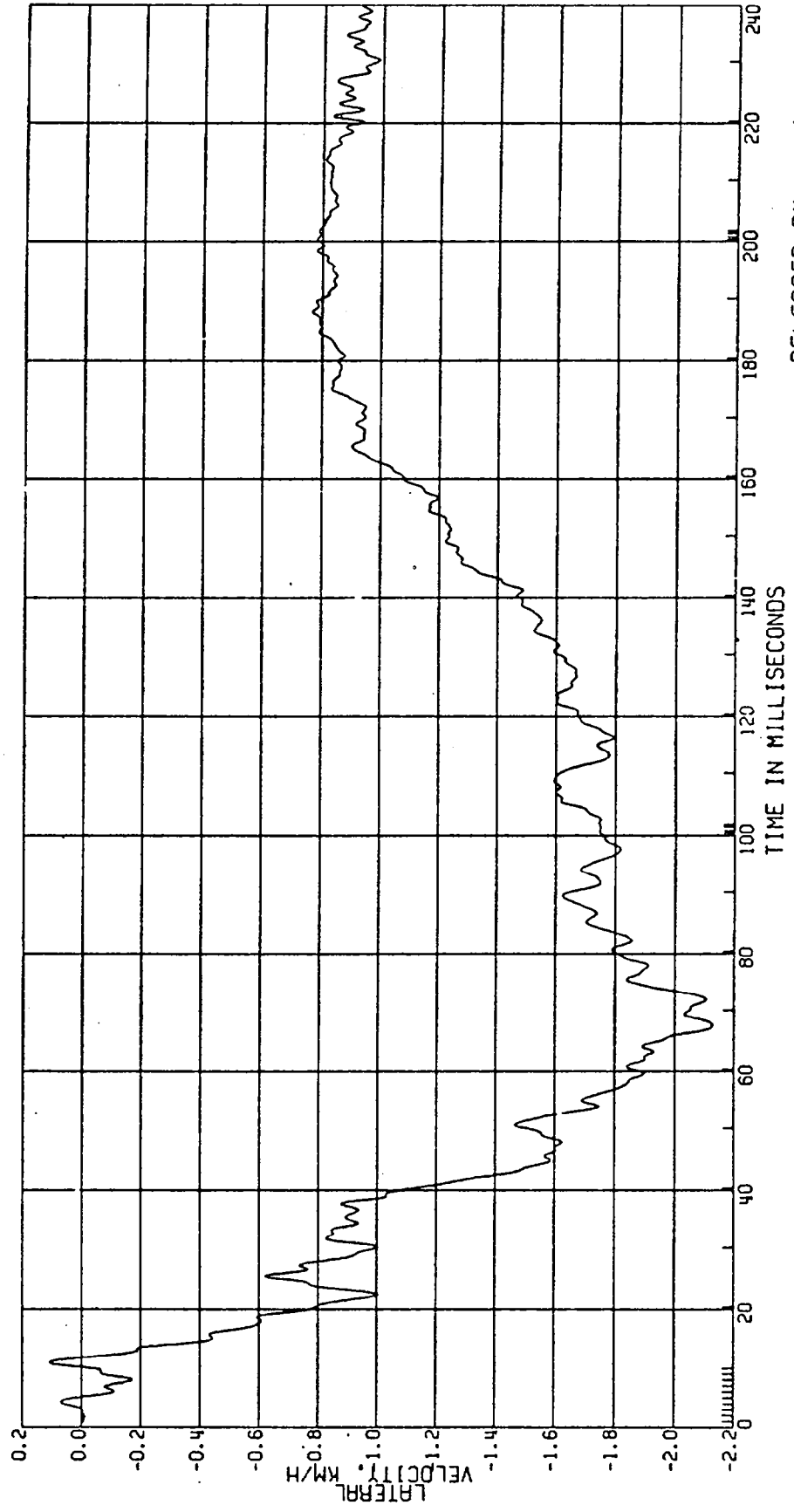
MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 118
COMPUTED MIDDLE OF BARRIER VELOCITY
TEST DATE:12-10-84
(1ST INTEGRAL DR-SIDE ACCELERATION)



RELEASED BY: 18
47 PROCESSED 11 DE 84 20:54

CG109A RIGHT SIDE IMPACT
3865-840
F.B. NHTSA BARR. STRIKING VEH
A-D DATA SAE CLASS 180

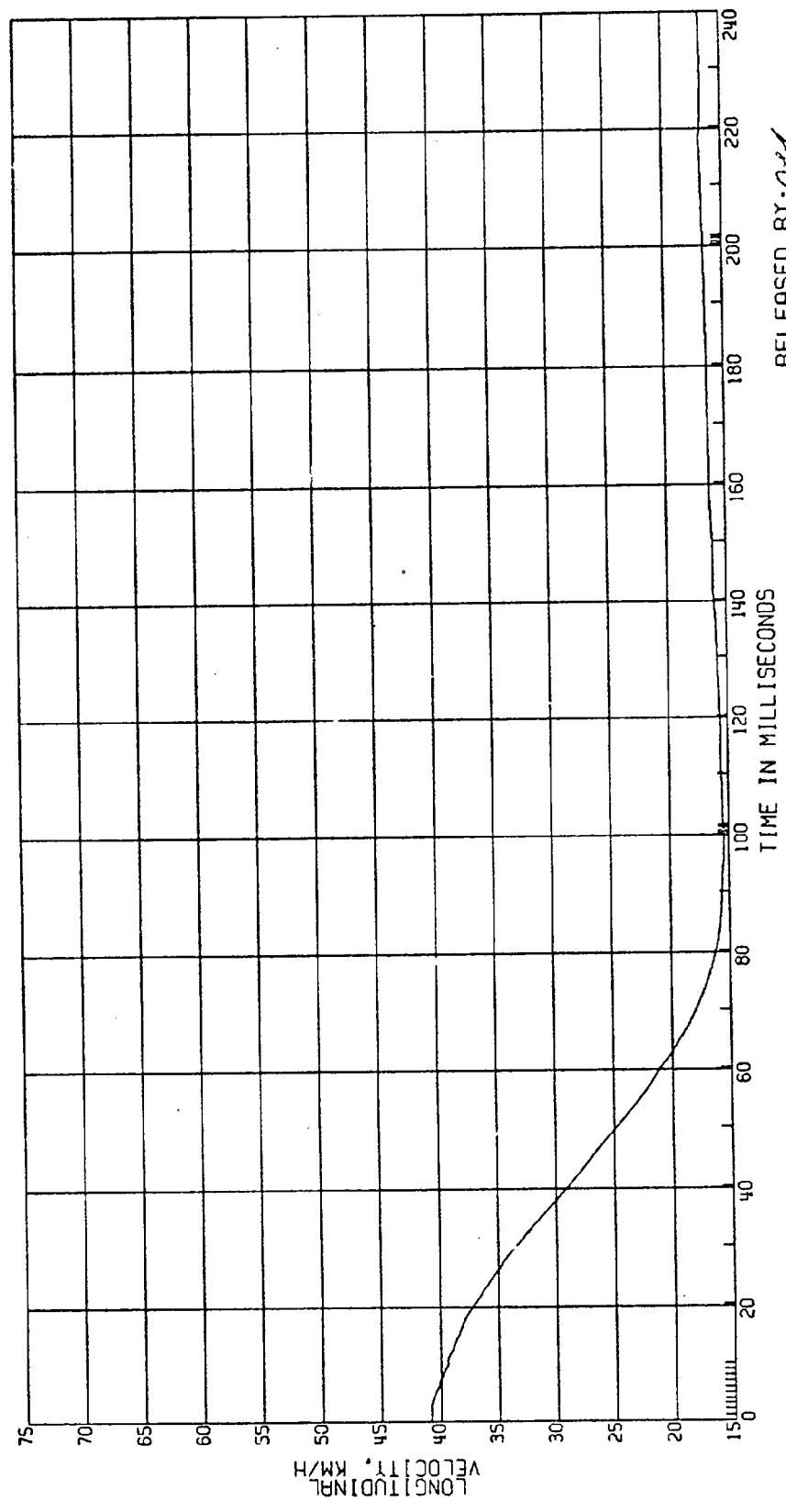
MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 120
COMPUTED MIDDLE OF BARRIER VELOCITY
TEST DATE:12-10-84
(1ST INTEGRAL PASS-SIDE ACCELERATION)



CG109A RIGHT SIDE IMPACT
3865-840
F.B. NHTSA BARR. STRIKING VEH
A-D DATA SAE CLASS 180

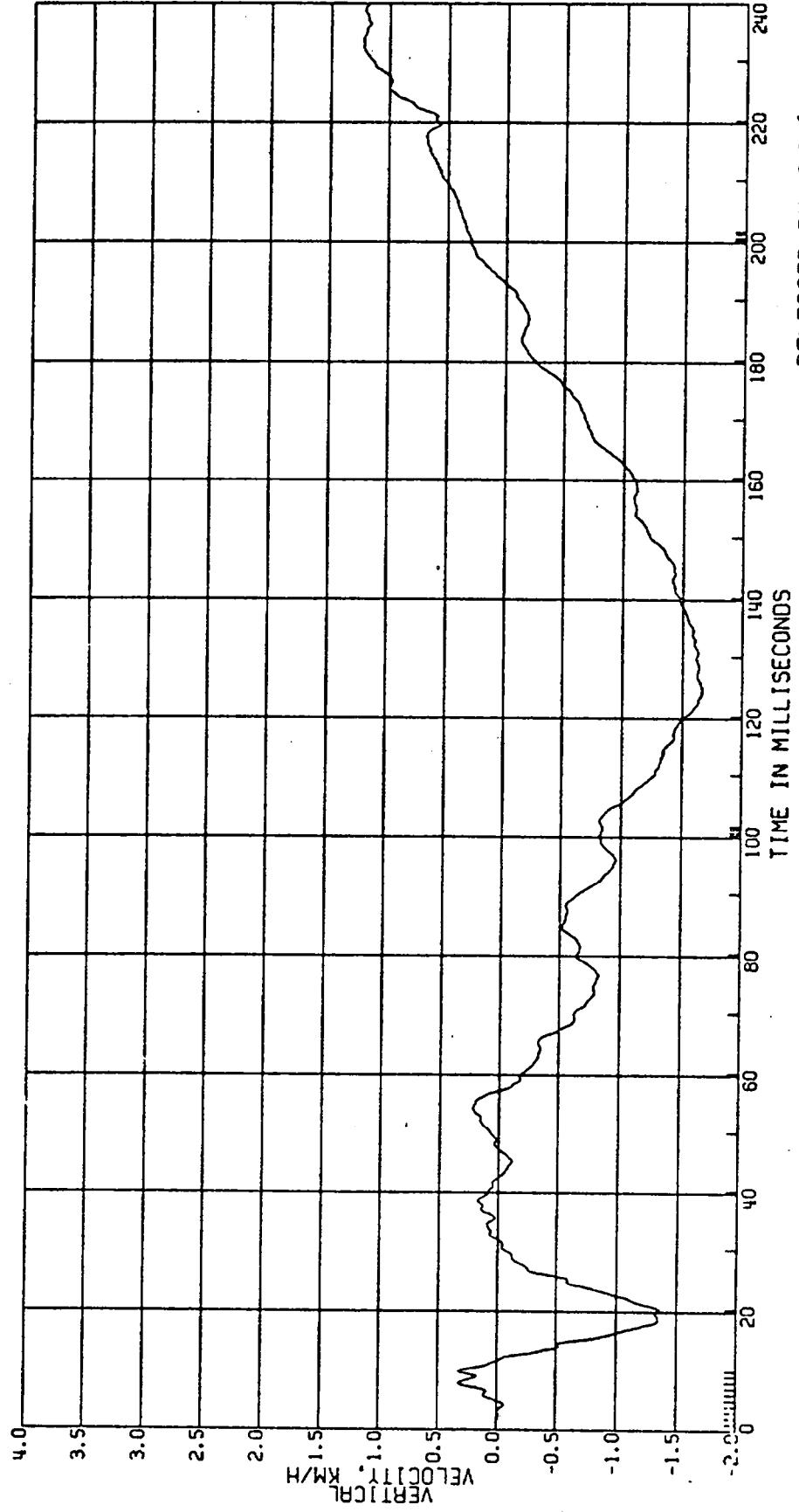
MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 119
COMPUTED MIDDLE OF BARRIER VELOCITY
(1ST INTEGRAL PASS-SIDE ACCELERATION)

TEST DATE: 12-10-84

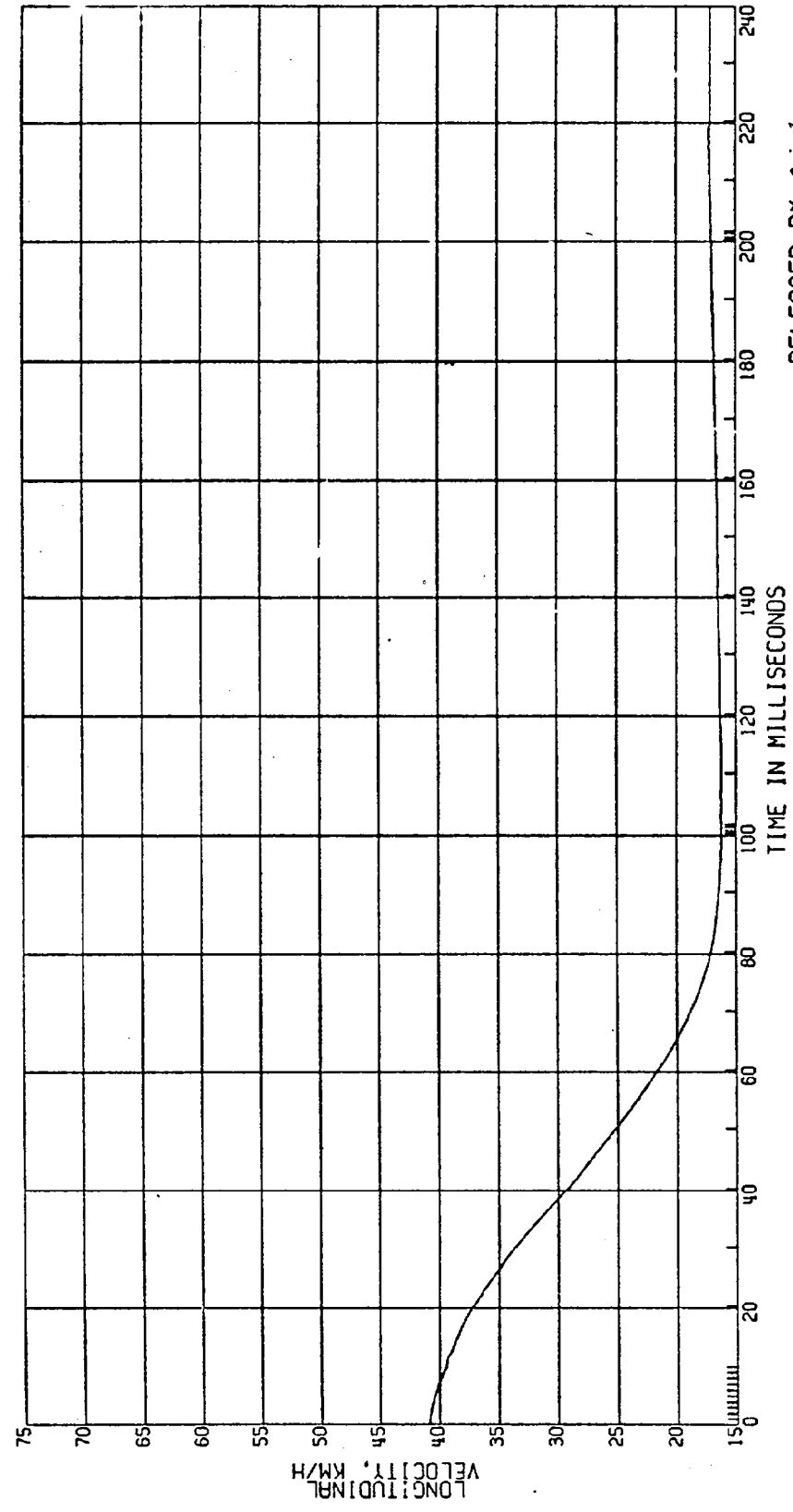


CG109A RIGHT SIDE IMPACT
3865-840
F.B. NHTSA BARR. STRIKING VEH
A-D DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 121
COMPUTED MIDDLE OF BARRIER VELOCITY
TEST DATE:12-10-84
(1ST INTEGRAL PASS-SIDE ACCELERATION)

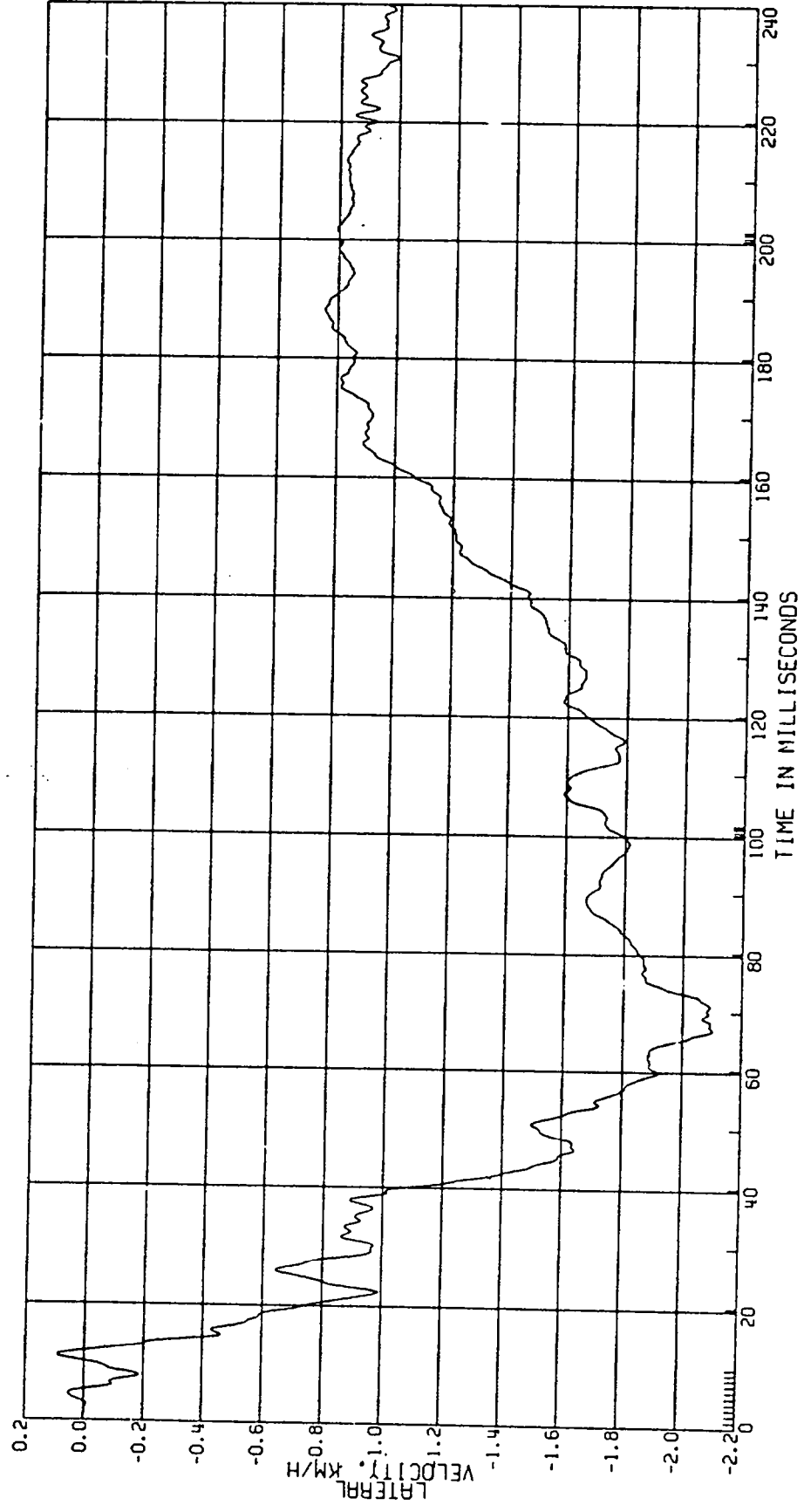


CG109A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 122
3865-840
F.B. NHTSA BARR. STRIKING VEH COMPUTED MIDDLE OF BARRIER VELOCITY TEST DATE: 12-10-84
A-D DATA SAE CLASS 180 (1ST INTEGRAL AVERAGED ACCELERATION)



CG109A RIGHT SIDE IMPACT
3865-840
F.B. NHTSA BARR. STRIKING VEH
A-D DATA SAE CLASS 180

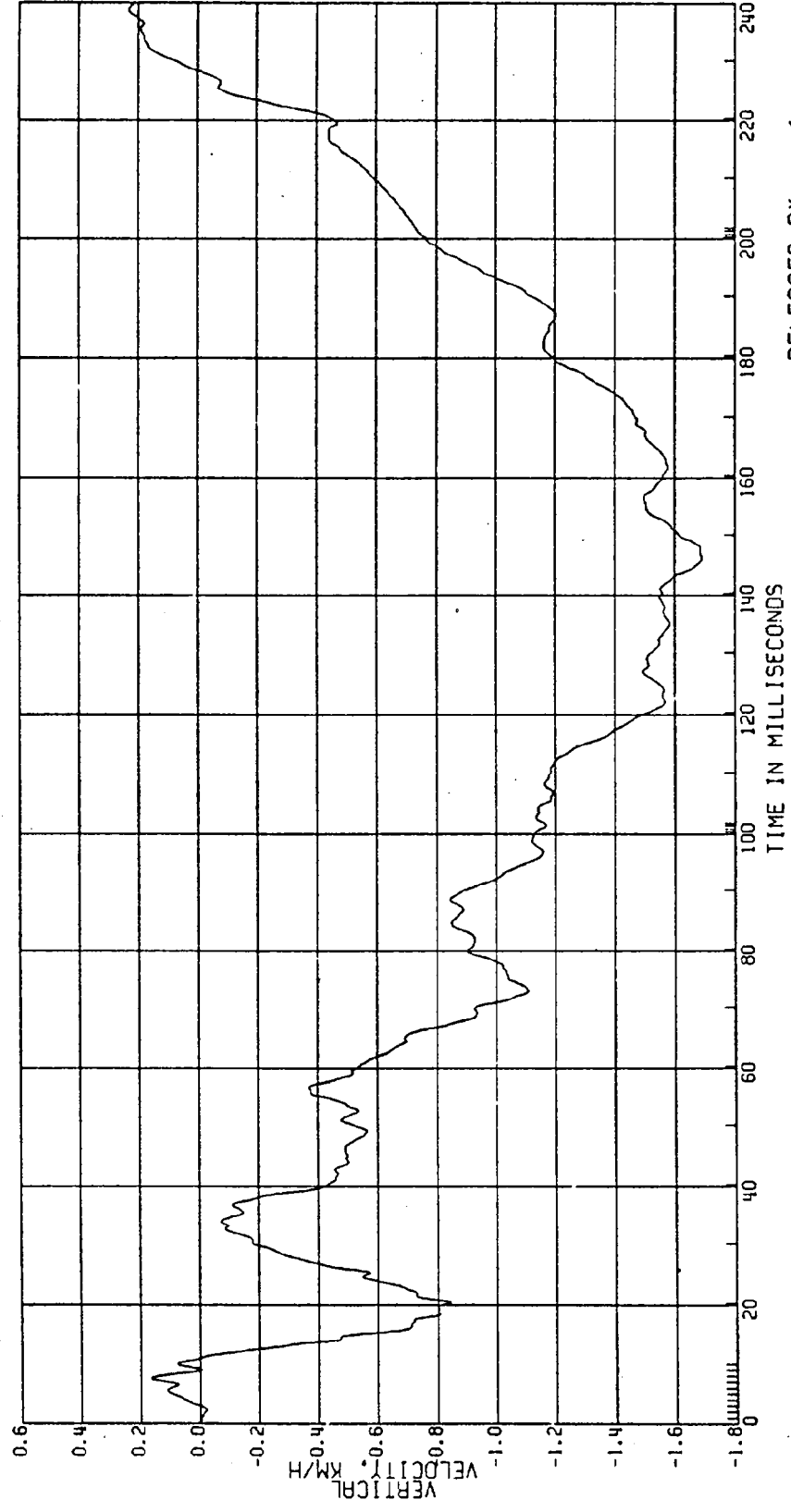
MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 123
COMPUTED MIDDLE OF BARRIER VELOCITY
(1ST INTEGRAL AVERAGED ACCELERATION)
TEST DATE: 12-10-84



CG109A RIGHT SIDE IMPACT
3865-840
F.B. NHTSA BARR. STRIKING VEH
A-D DATA SAE CLASS 180

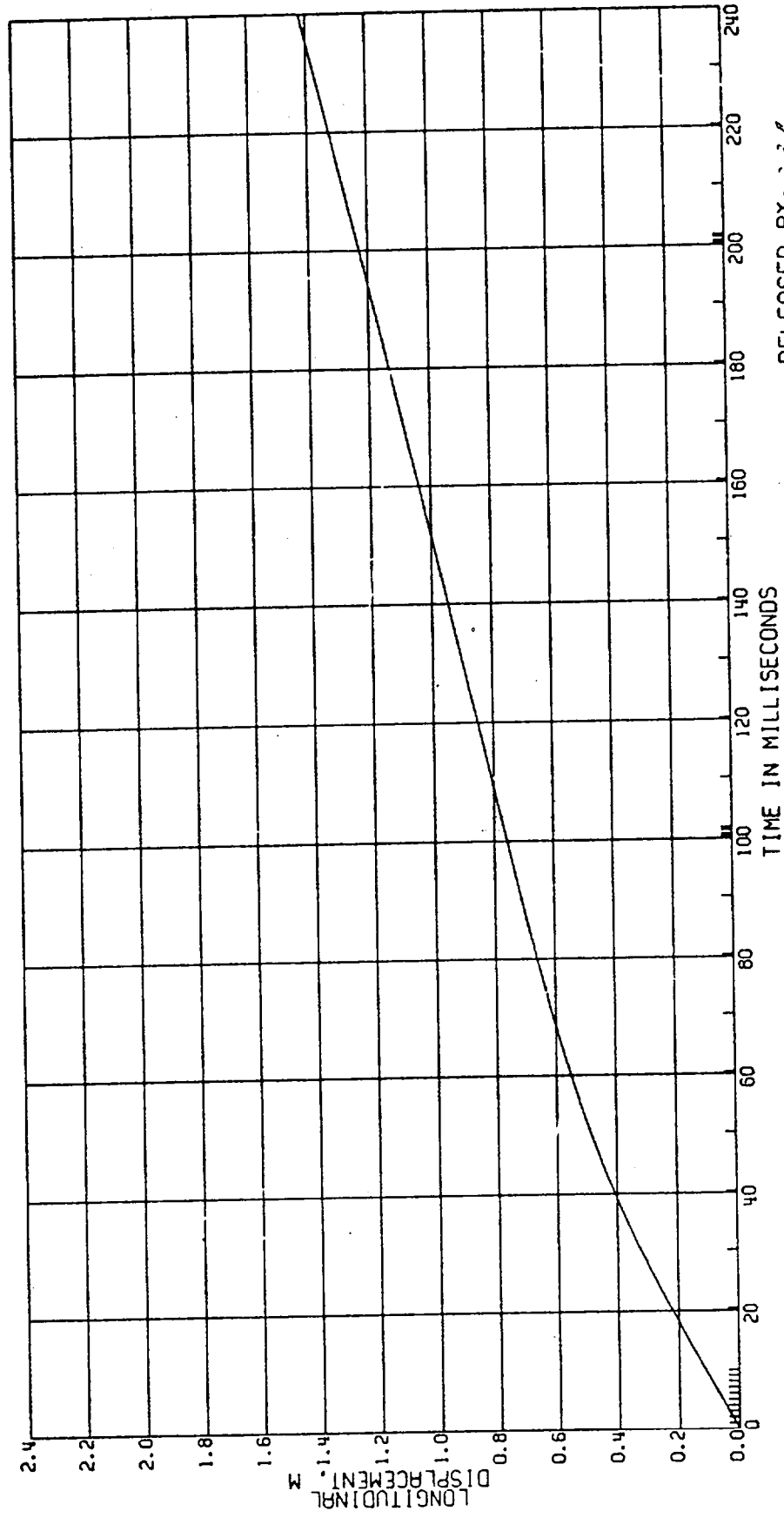
MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 124
COMPUTED MIDDLE OF BARRIER VELOCITY
(1ST INTEGRAL AVERAGED ACCELERATION)

TEST DATE:12-10-84



RELEASED BY: [Signature]
53 PROCESSED 11 DE 84 20:56

CG109A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 125
3855-840
F.B. NHTSA BARR. STRIKING VEH
A-D DATA SAE CLASS 180
COMPUTED MIDDLE OF BARRIER DISPLACEMENT TEST DATE:12-10-84
(2ND INTEGRAL DR-SIDE ACCELERATION)



RELEASED BY: LRA
30 PROCESSED 11 DE 84 20:49

C6109A RIGHT SIDE IMPACT

3865-840

F.B. NHTSA BARR. STRIKING VEH

A-D DATA SAE CLASS 180

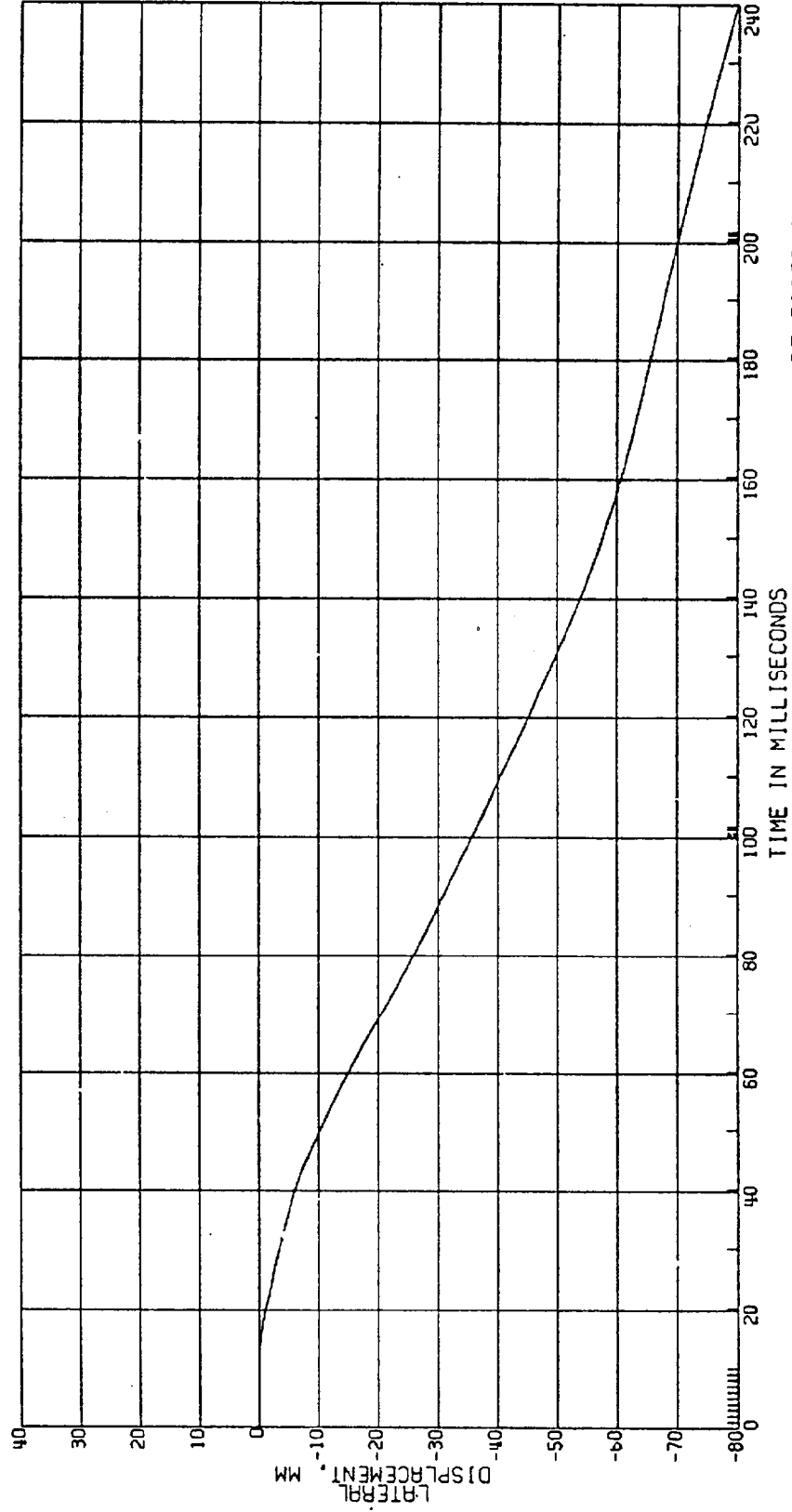
MOVING BARRIER TO PARKED VEHICLE

40.8KM/H FIGURE 126

COMPUTED MIDDLE OF BARRIER DISPLACEMENT

TEST DATE:12-10-84

(2ND INTEGRAL DR-SIDE ACCELERATION)



RELEASED BY: G-21
39 PROCESSED 11 DE 84 20:52

CG109A RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE

40.8 KM/H FIGURE 1 & 7

3865-840

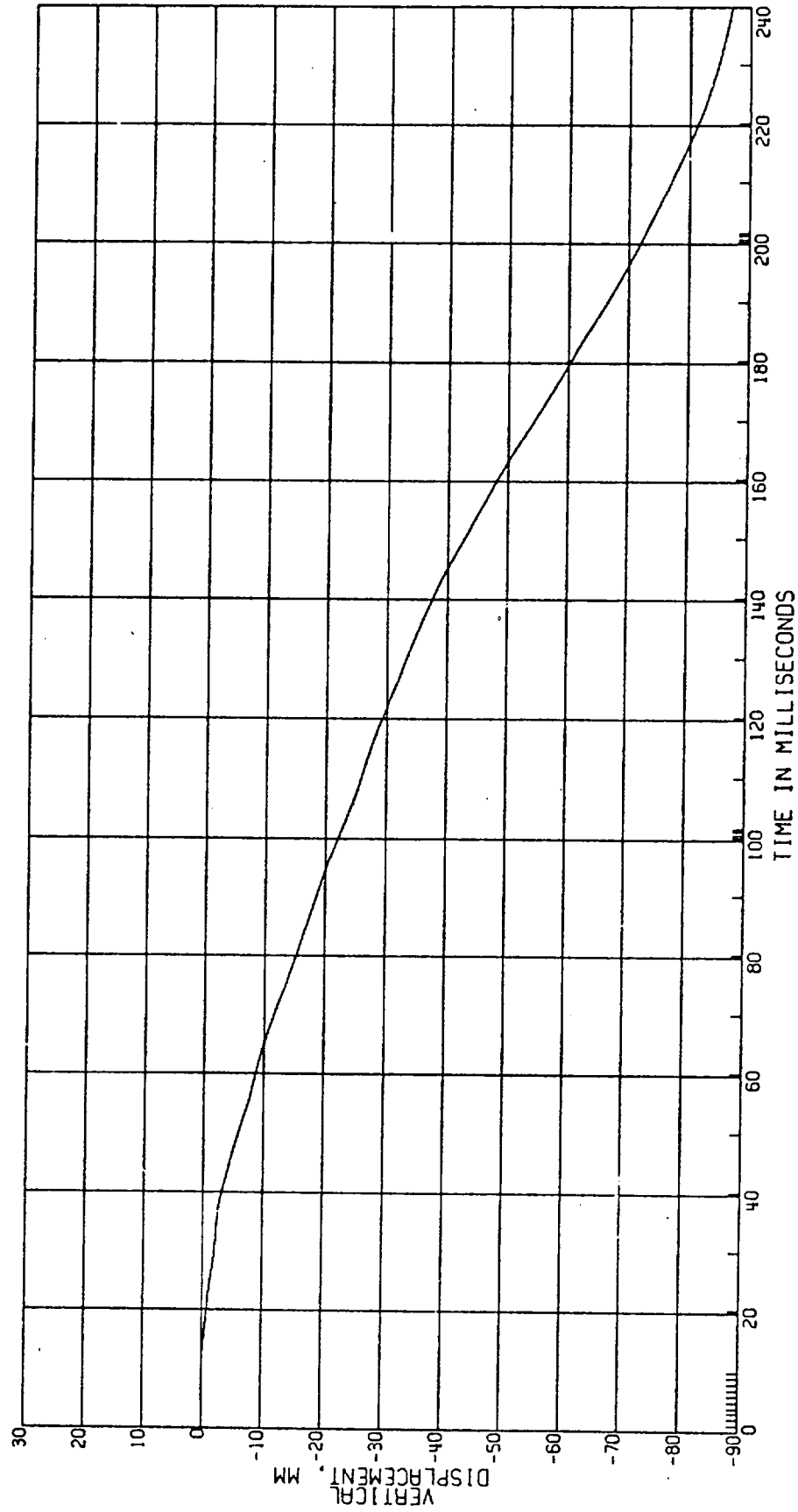
F.B. NHTSA BARR. STRIKING VEH

COMPUTED MIDDLE OF BARRIER DISPLACEMENT

TEST DATE: 12-10-84

A-D DATA SAE CLASS 180

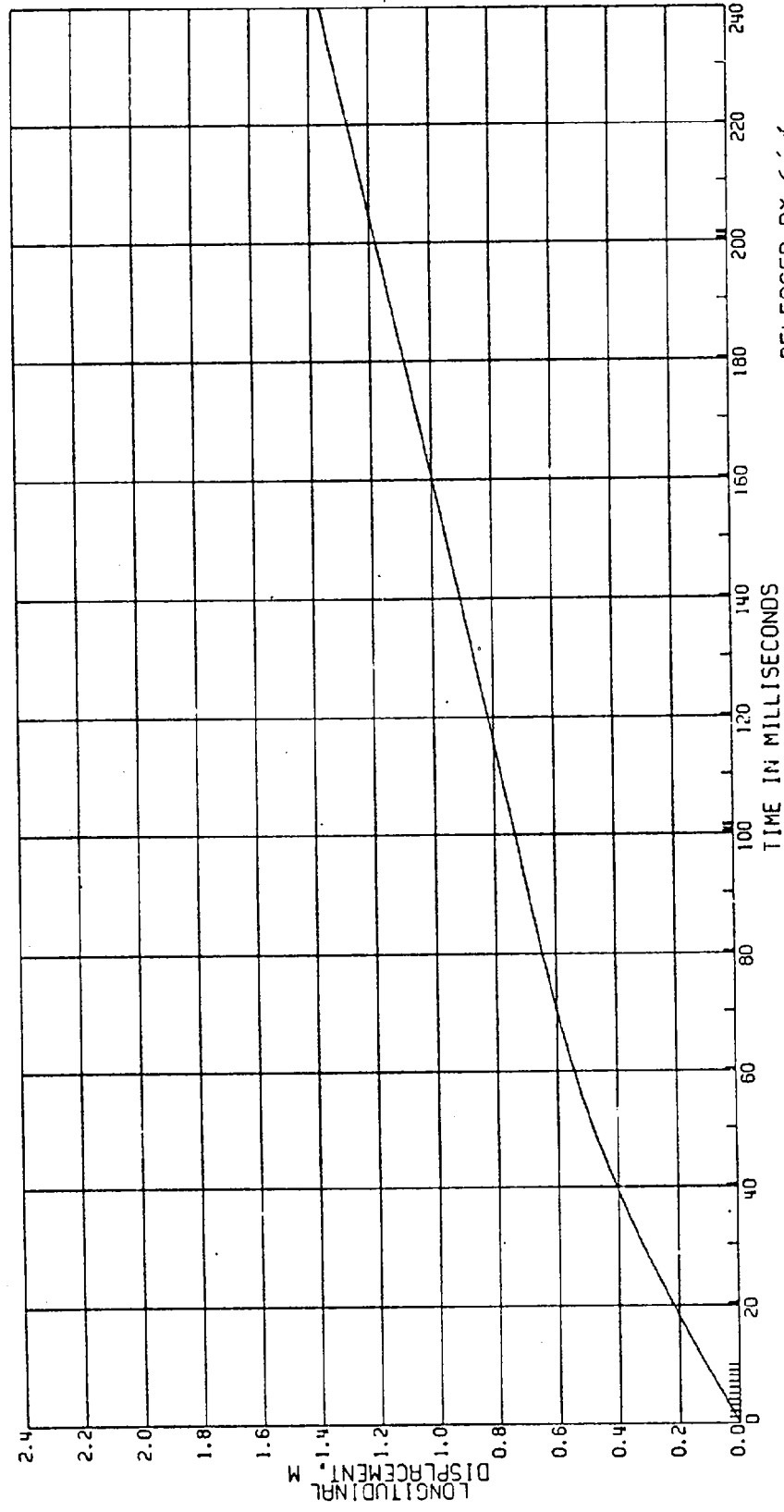
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RELEASED BY: 041

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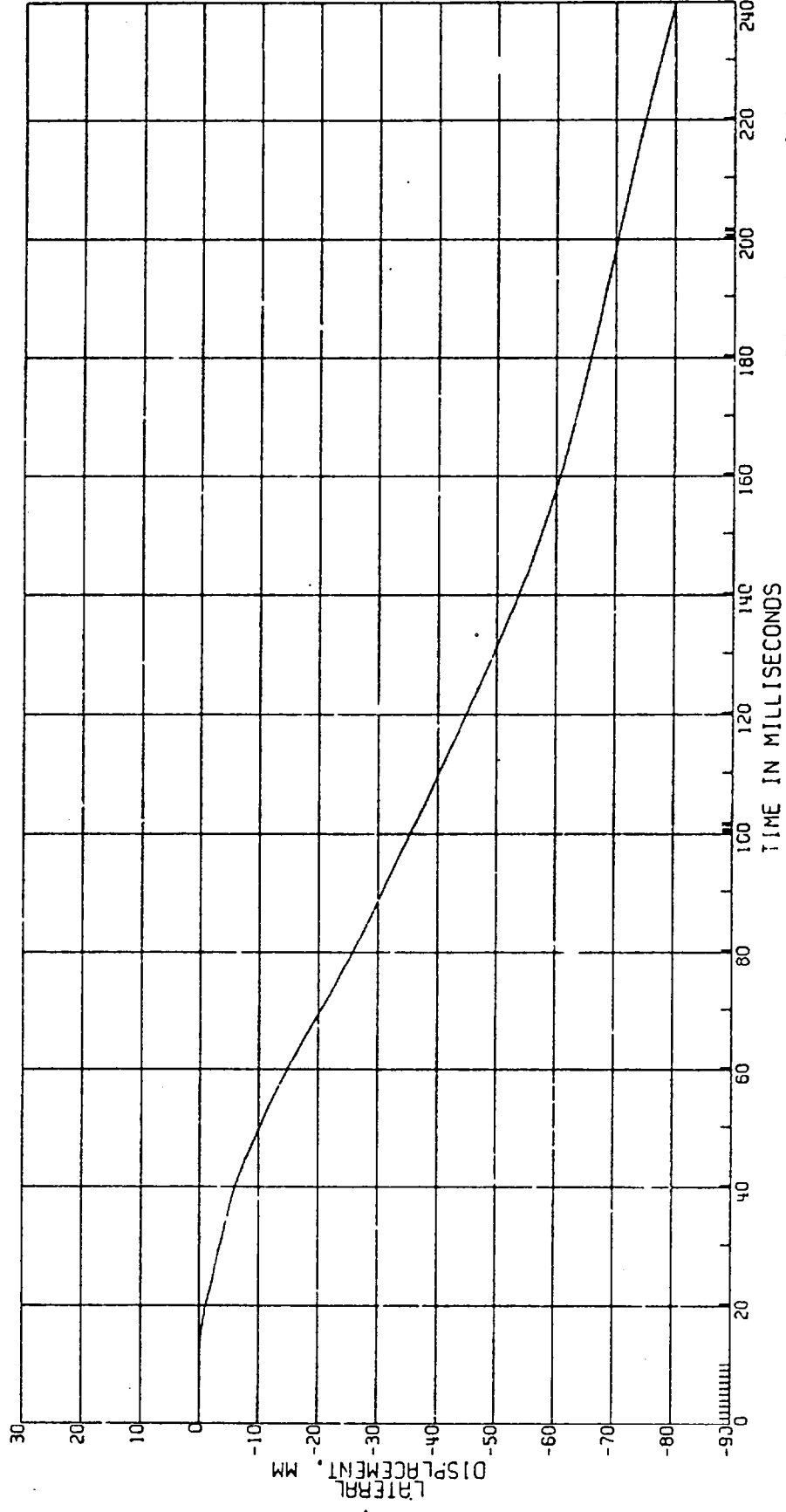
CG109A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 128
3865-840
F.B. NHTSA BARR. STRIKING VEH COMPUTED MIDDLE OF BARRIER DISPLACEMENT TEST DATE: 12-10-84
A-D DATA SAE CLASS 180 (2ND INTEGRAL PASS-SIDE ACCELERATION)



RELEASED BY: G. J. J.
33 PROCESSED 11 DE 84 20:50

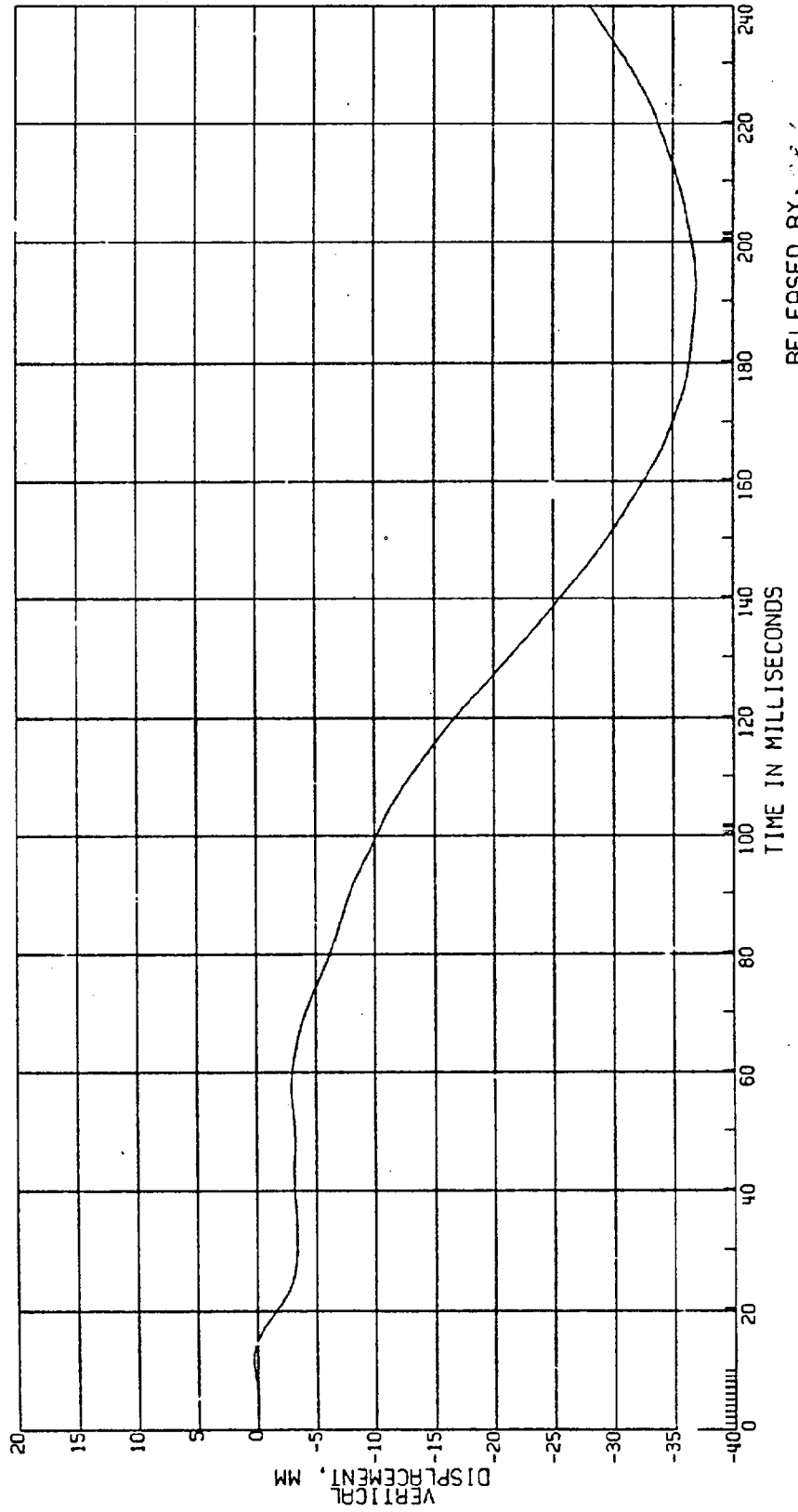
C6109A RIGHT SIDE IMPACT
3865-840
F.B. NHTSA BARR. STRIKING VEH
A-D DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 129
COMPUTED MIDDLE OF BARRIER DISPLACEMENT
TEST DATE: 12-10-84
(2ND INTEGRAL PASS-SIDE ACCELERATION)



RELEASED BY: G.P.
42 PROCESSED 11 DE 84 20:53

CG109A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 130
3865-840
F.B. NHTSA BARR. STRIKING VEH COMPUTED MIDDLE OF BARRIER DISPLACEMENT TEST DATE:12-10-84
A-D DATA SAE CLASS 180 (2ND INTEGRAL PASS-SIDE ACCELERATION)



CG109A RIGHT SIDE IMPACT

3865-840

F.B. NHTSA BARR. STRIKING VEH

A-D DATA SAE CLASS 180

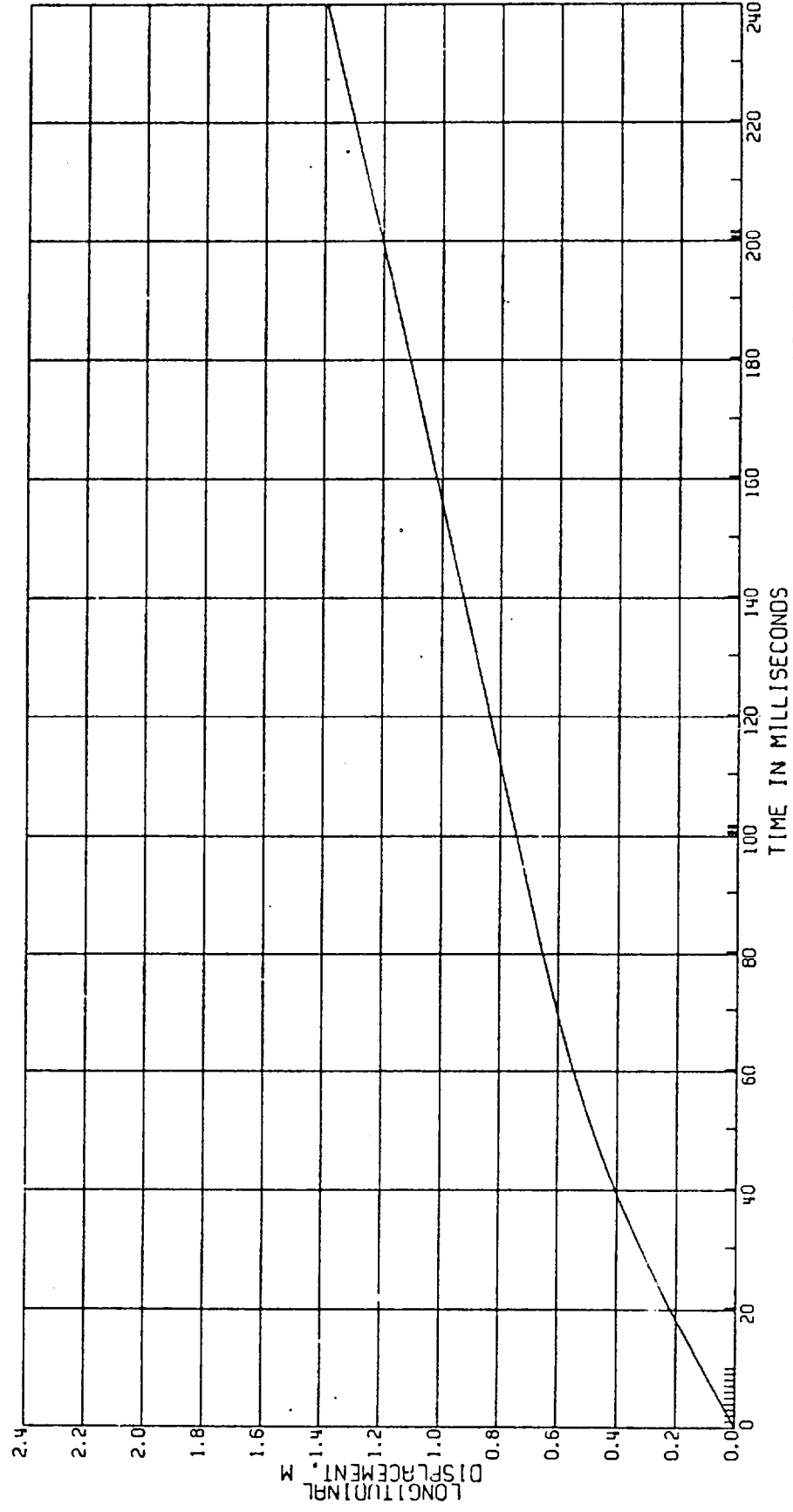
MOVING BARRIER TO PARKED VEHICLE

40.8KM/H FIGURE 131

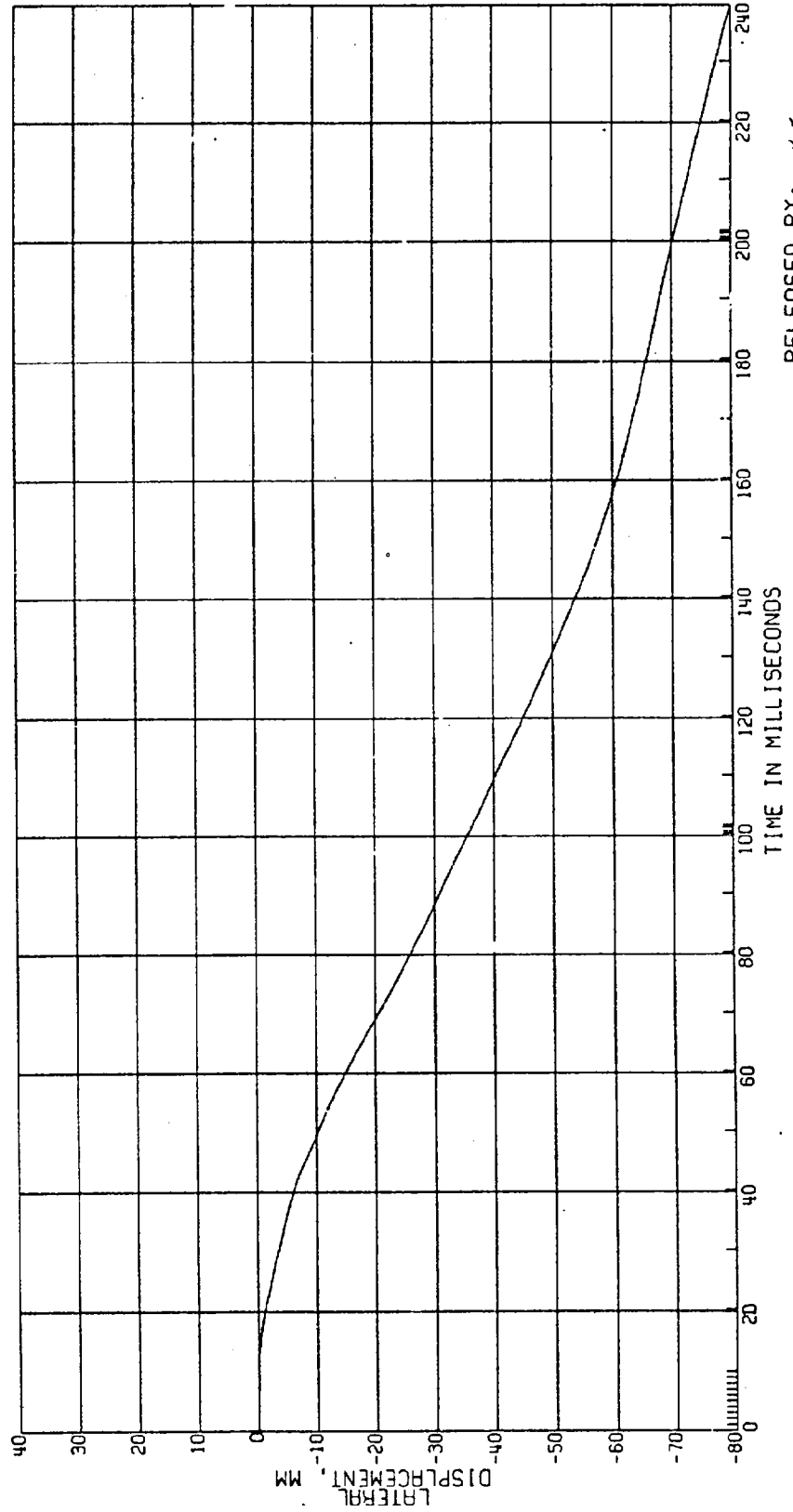
COMPUTED MIDDLE OF BARRIER DISPLACEMENT

TEST DATE: 12-10-84

(2ND INTEGRAL AVERAGED ACCELERATION)



CG109A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 132
3865-840
F.B. NHTSA BARR. STRIKING VEH COMPUTED MIDDLE OF BARRIER DISPLACEMENT TEST DATE: 12-10-84
A-D DATA SAE CLASS 180 (2ND INTEGRAL AVERAGED ACCELERATION)



C6109A RIGHT SIDE IMPACT
3865-840

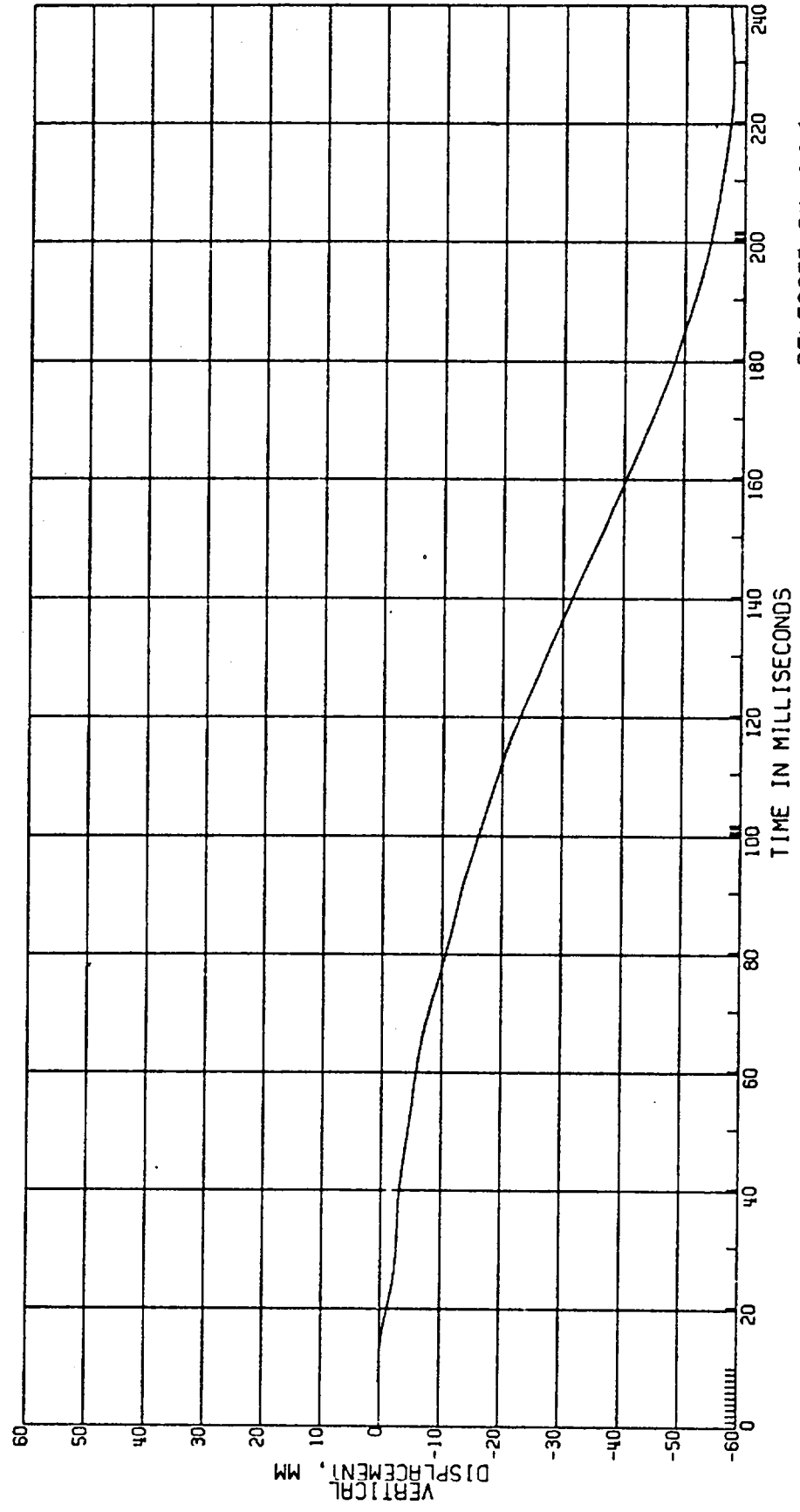
MOVING BARRIER TO PARKED VEHICLE 40.8KM/H FIGURE 133

F.B. NHTSA BARR. STRIKING VEH
A-D DATA SAE CLASS 180

COMPUTED MIDDLE OF BARRIER DISPLACEMENT

TEST DATE: 12-10-84

(2ND INTEGRAL AVERAGED ACCELERATION)



RELEASED BY: *CLJ*
54 PROCESSED 11 DE 84 20:56

FIGURE 134

40.8KM/H

C6109 RIGHT SIDE IMPACT

3865-850

FISHER BODY CC453 3JC77

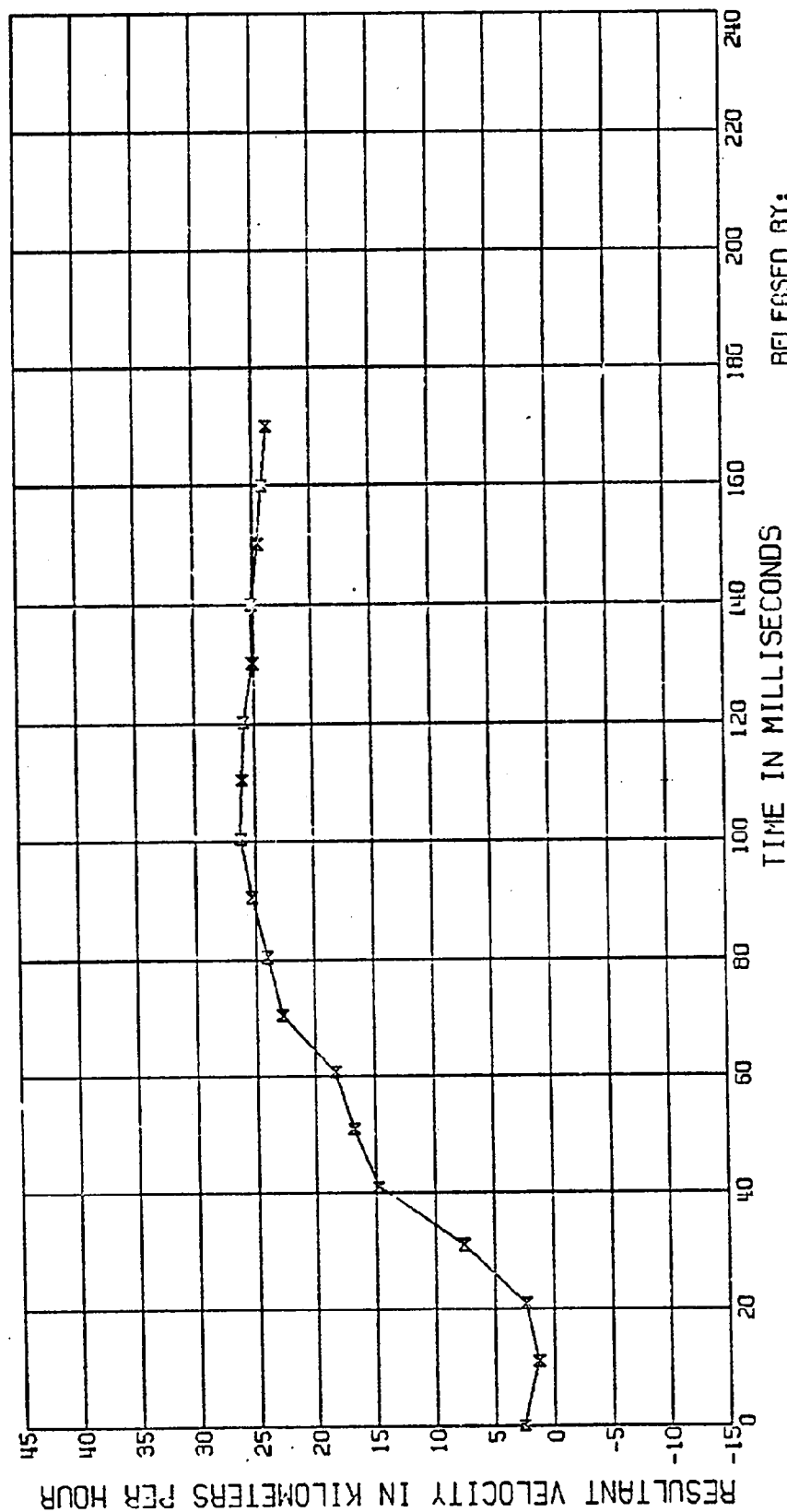
FILM DATA

GROUND REFERENCE

TEST DATE: 12-10-84

VELOCITY CALCULATED FROM SMOOTHED X-Z RESULTANT DISP. DATA

STRUCK VEH. TARGET RELATIVE TO GROUND REFERENCE



RELEASED BY:
11 PROCESSED 12 DE 84 15:42

CG109 RIGHT SIDE IMPACT

3865-850

FISHER BODY CC453 3JC77

FILM DATA

40.8KM/H

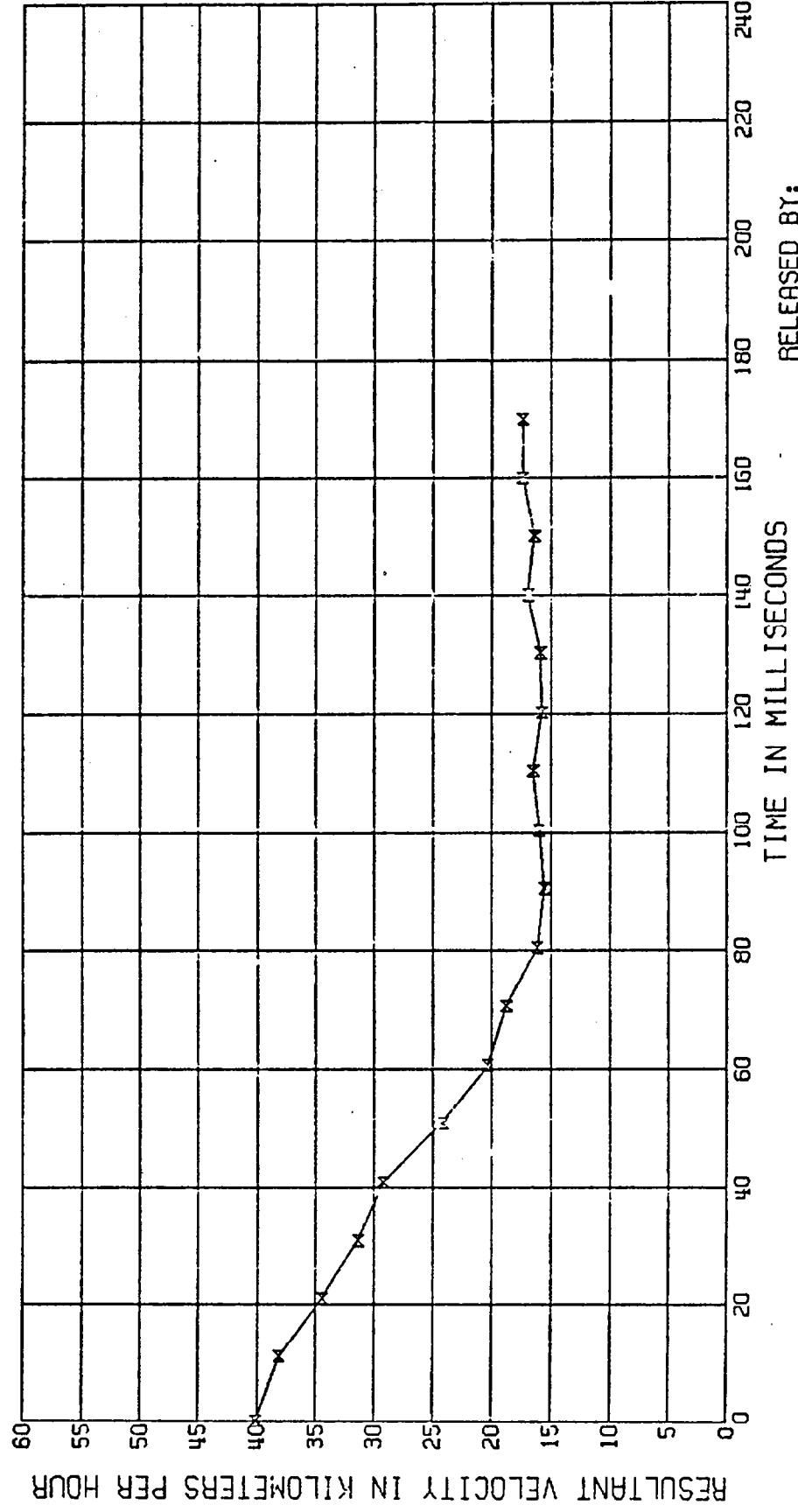
FIGURE 135

GROUND REFERENCE

TEST DATE: 12-10-84

VELOCITY CALCULATED FROM SMOOTHED X-Z RESULTANT DISP. DATA

STRIKING VEH. TARGET RELATIVE TO GROUND REFERENCE



RELEASED BY:
3 PROCESSED 12 DE 64 15:36

FIGURE 136

40.8KM/H

CG109 RIGHT SIDE IMPACT

3695-850

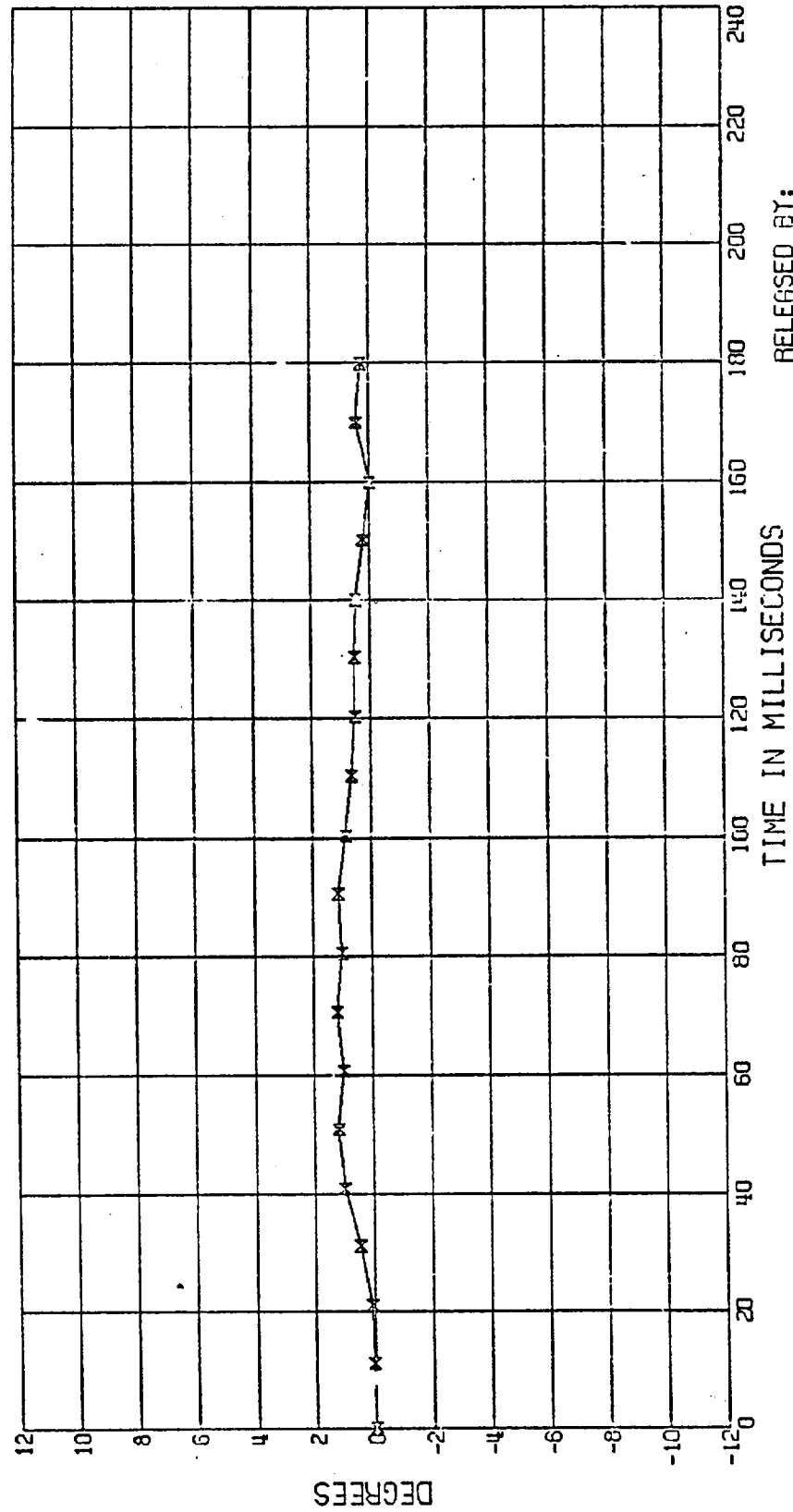
FISHER BODY CC453 3JC77

FILM DATA

OVERHEAD ANALYSIS

TEST DATE: 12-1-84

STRUCK VEH. ANGLE RELATIVE TO GROUND REFERENCE



RELEASED BY:
15 PROCESSED 12 DE 84 14:16

C6109 RIGHT SIDE IMPACT
3805-850
FISHER BODY CC453 3JC77
FILM DATA

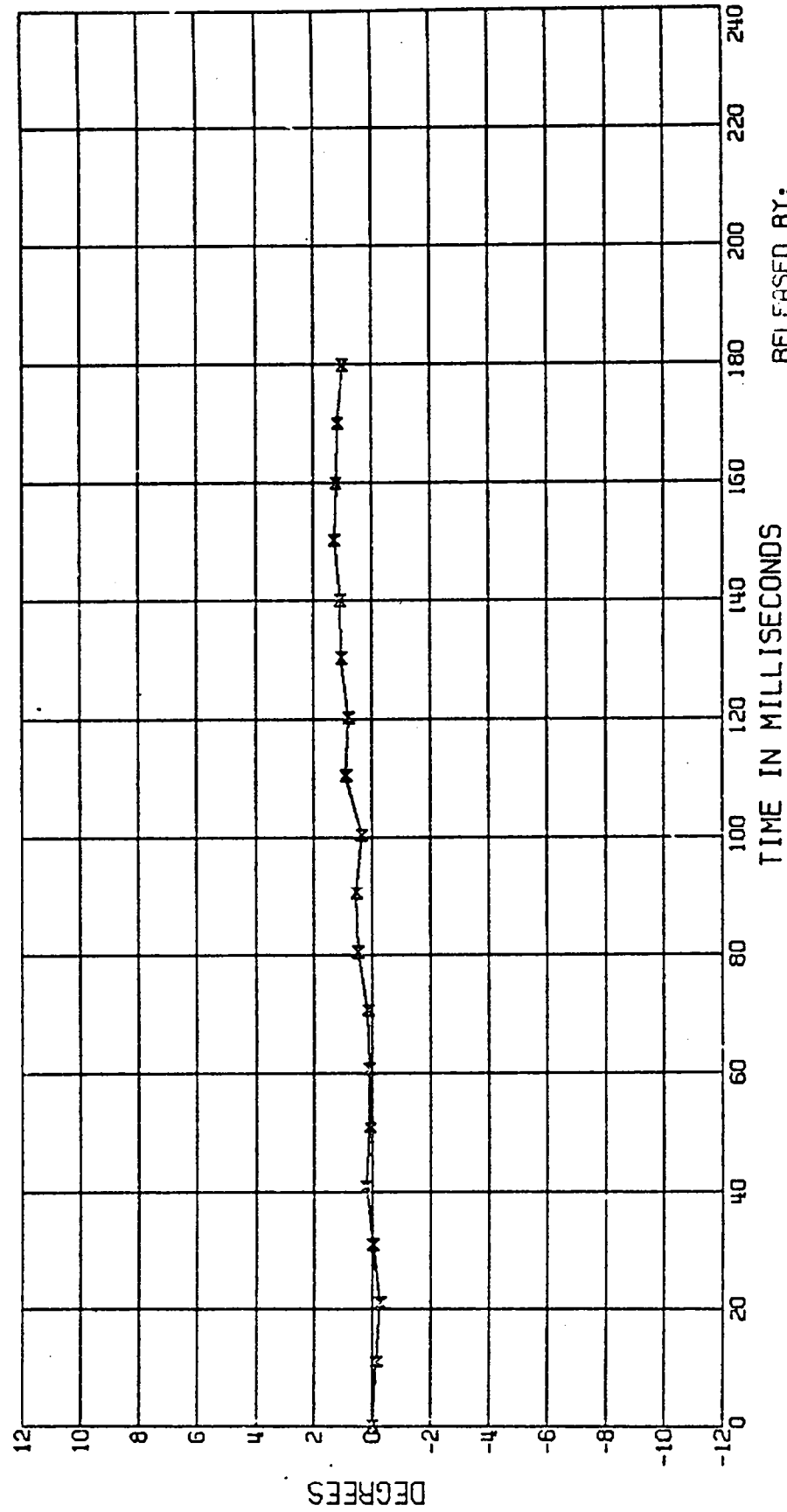
40.8KM/H

FIGURE 137

OVERHEAD ANALYSIS

TEST DATE: 12-10-84

STRIKING VEH. ANGLE RELATIVE TO GROUND REFERENCE



RELEASED BY:
13 PROCESSED 3 JAN 85 11:28

06109 RIGHT SIDE IMPACT
3865-850
FISHER BODY CC453 3JC77
FILM DATA

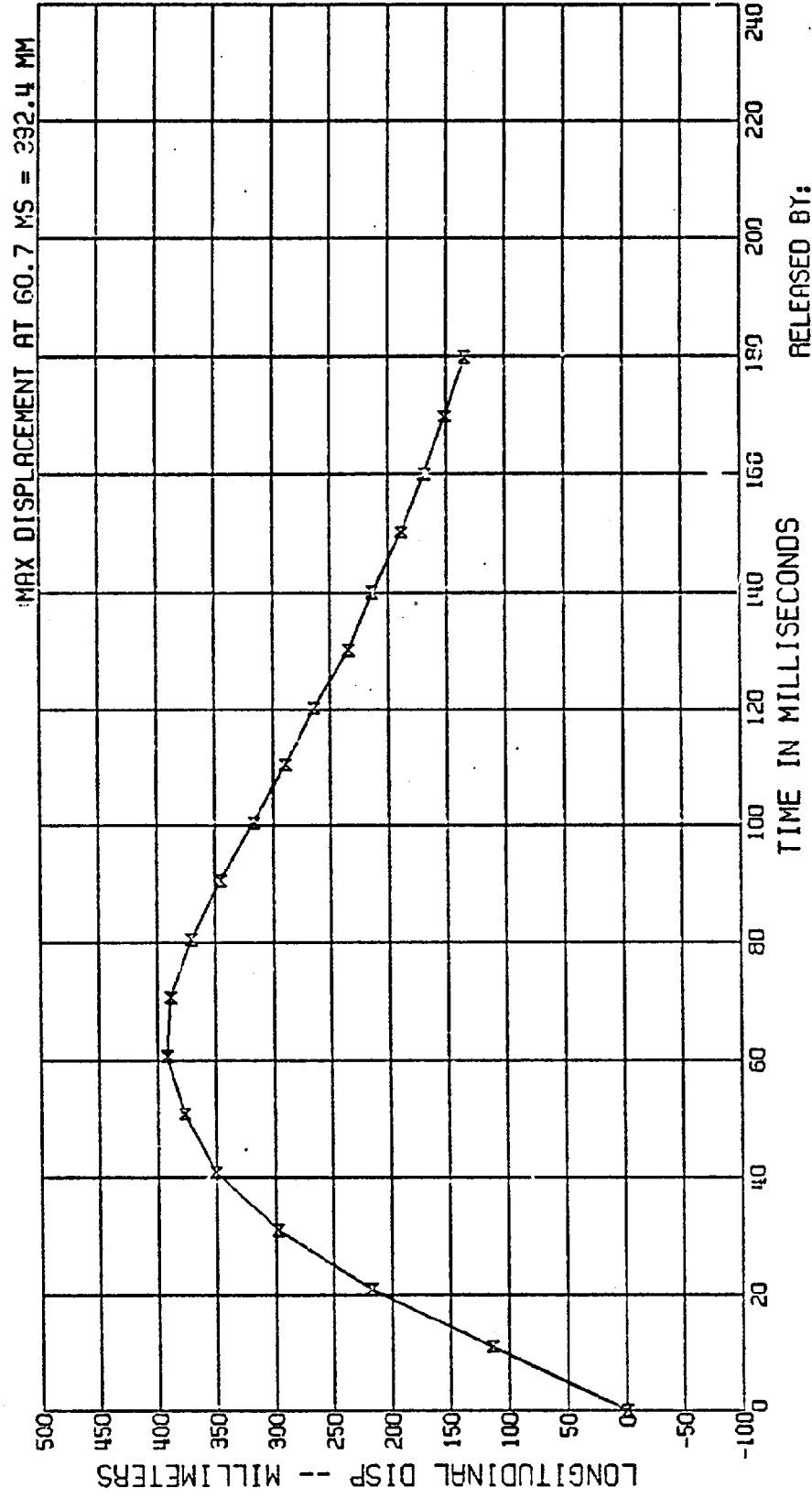
40.8KM/H

FIGURE 138

GROUND REFERENCE

TEST DATE: 12-10-84

STRIKING VEH. TARGET RELATIVE TO STRUCK VEH. TARGET



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5 PROCESSED 12 DE 84 15:38

CG109 RIGHT SIDE IMPACT
3865-850
FISHER BODY CC453 3JC77
FILM DATA

40.8KM/H

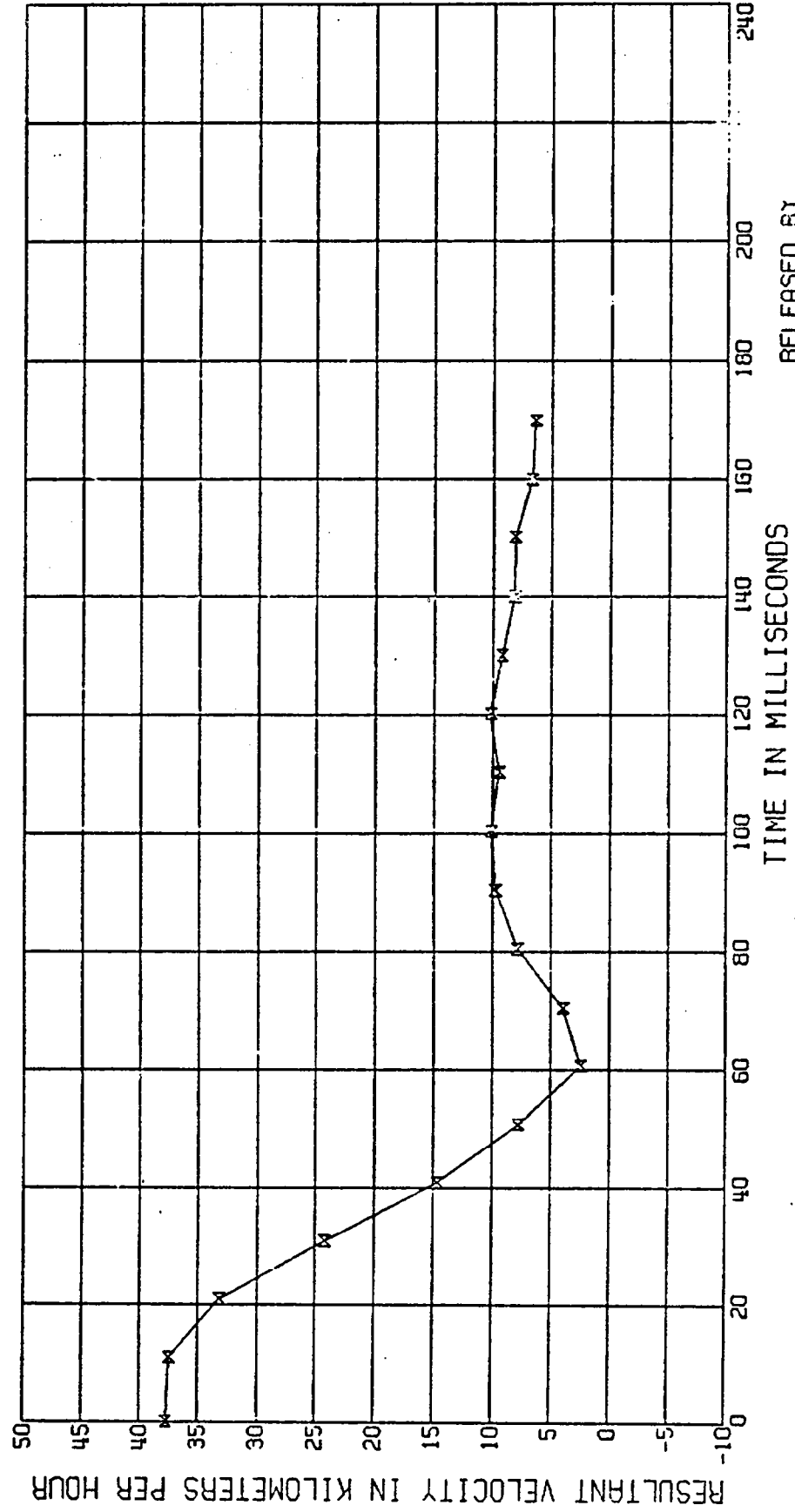
FIGURE 139

GROUND REFERENCE

TEST DATE: 12-10-84

VELOCITY CALCULATED FROM SMOOTHED X-Z RESULTANT DISP. DATA

STRIKING VEH. TARGET RELATIVE TO STRUCK VEH. TARGET



RELEASED BY
7 PROCESSED 12 DE

FIGURE 140

40.8KM/H

CG109 RIGHT SIDE IMPACT

3865-850

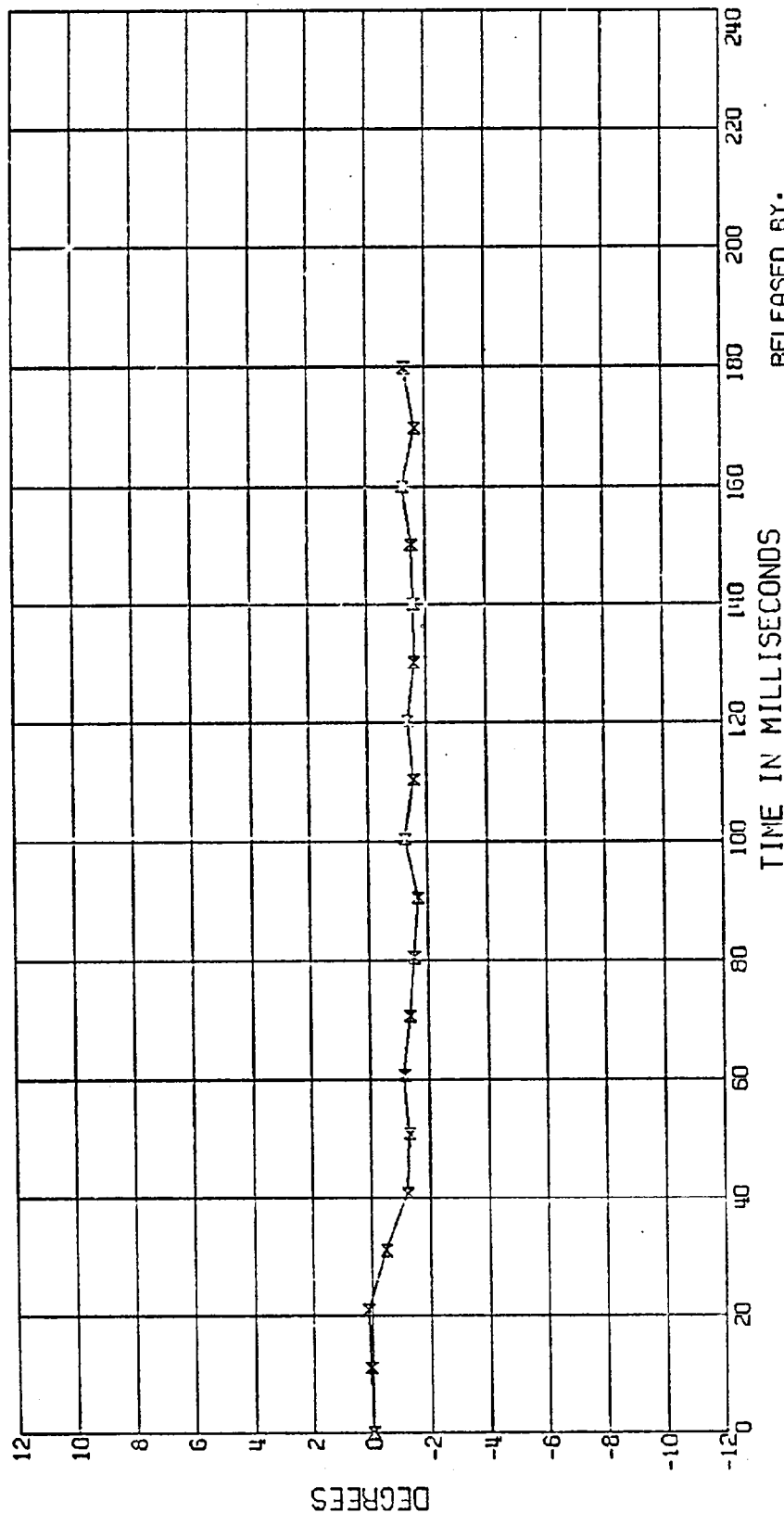
FISHEN BODY CC453 3JC77

FILM DATA

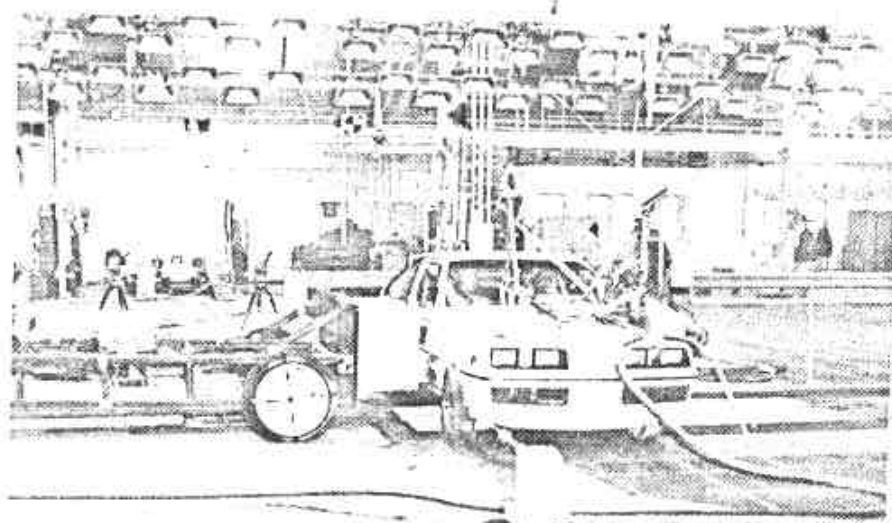
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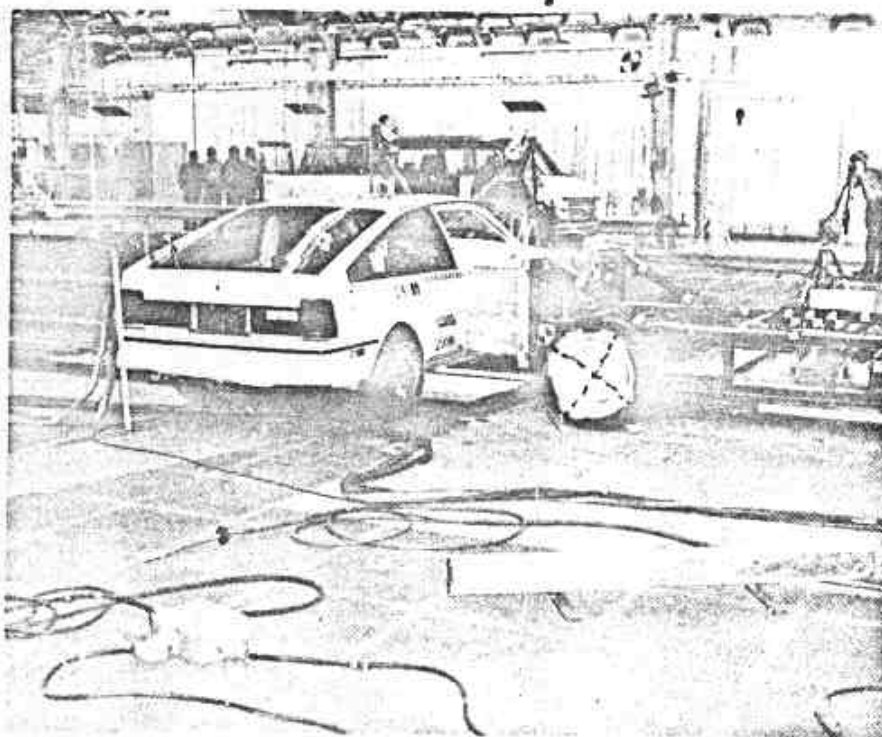
TEST DATE: 12-10-84

STRIKING VEH. ANGLE RELATIVE TO STRUCK VEH. ANGLE

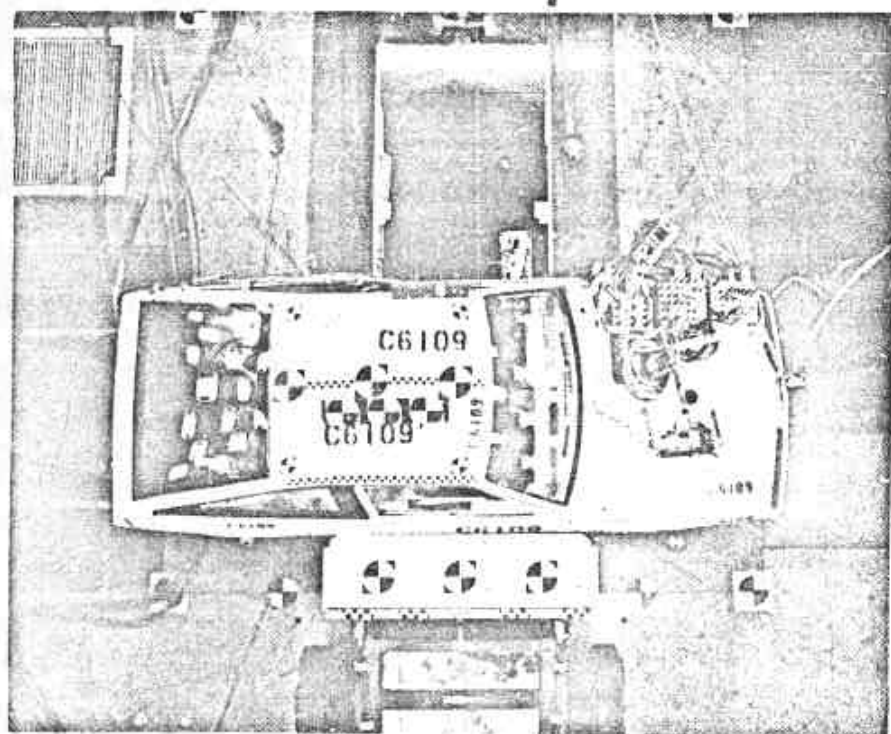


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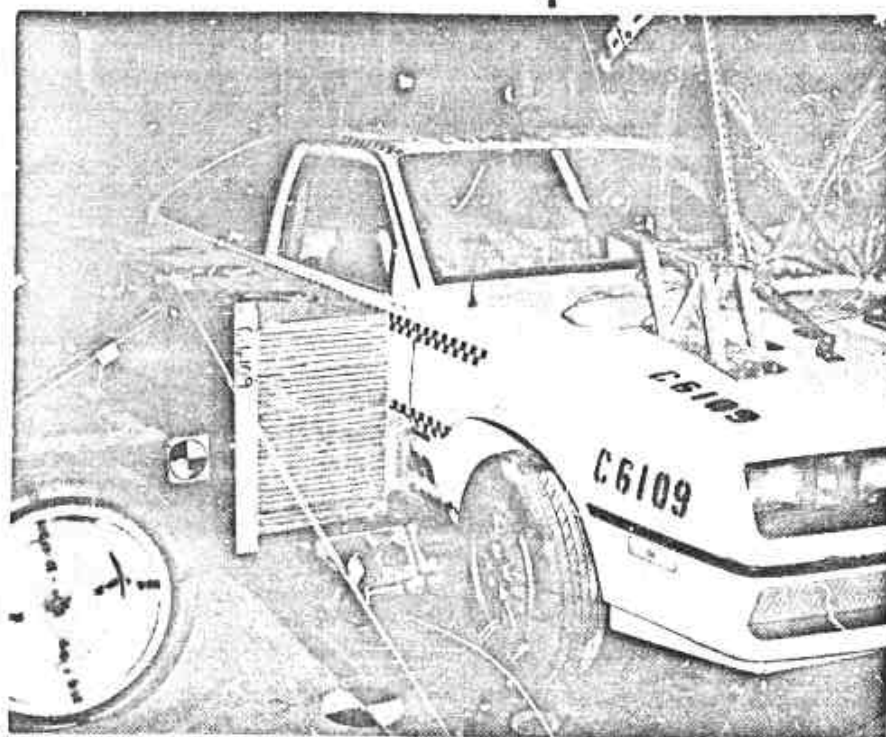


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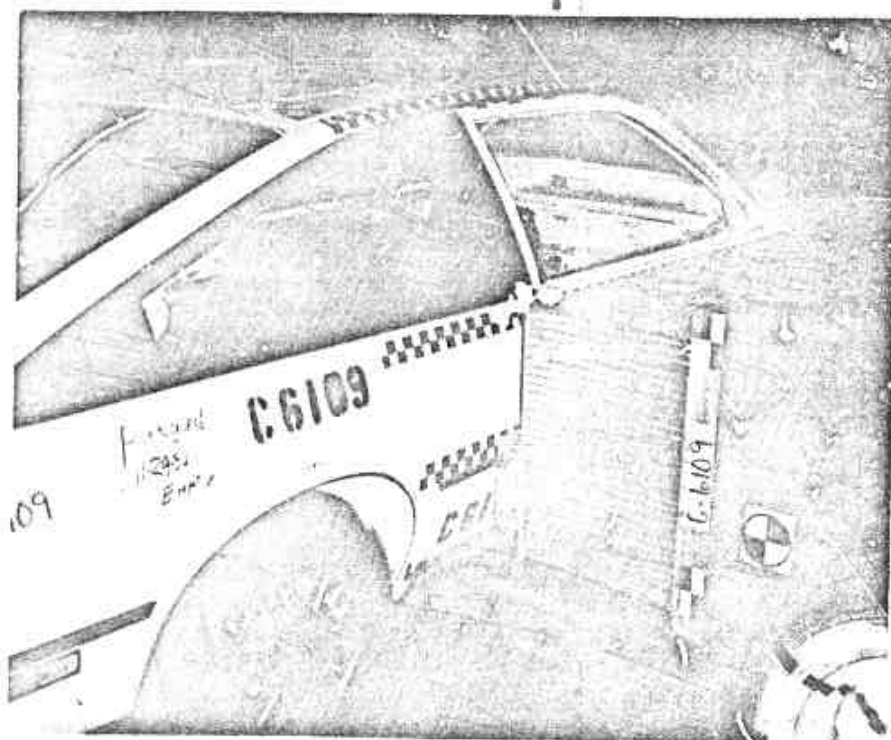


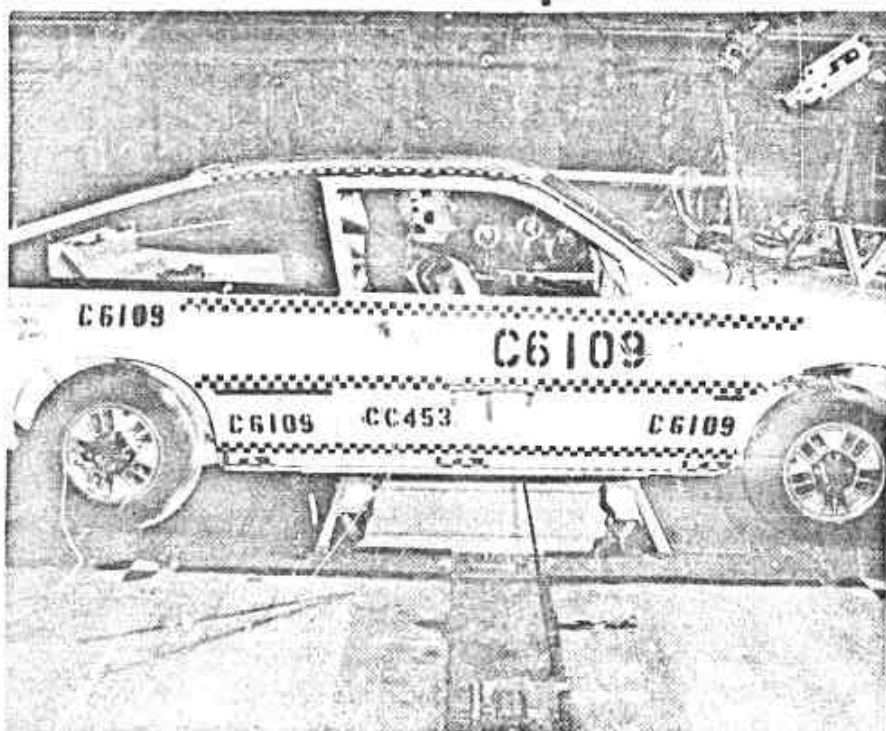
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Current No	Fig No
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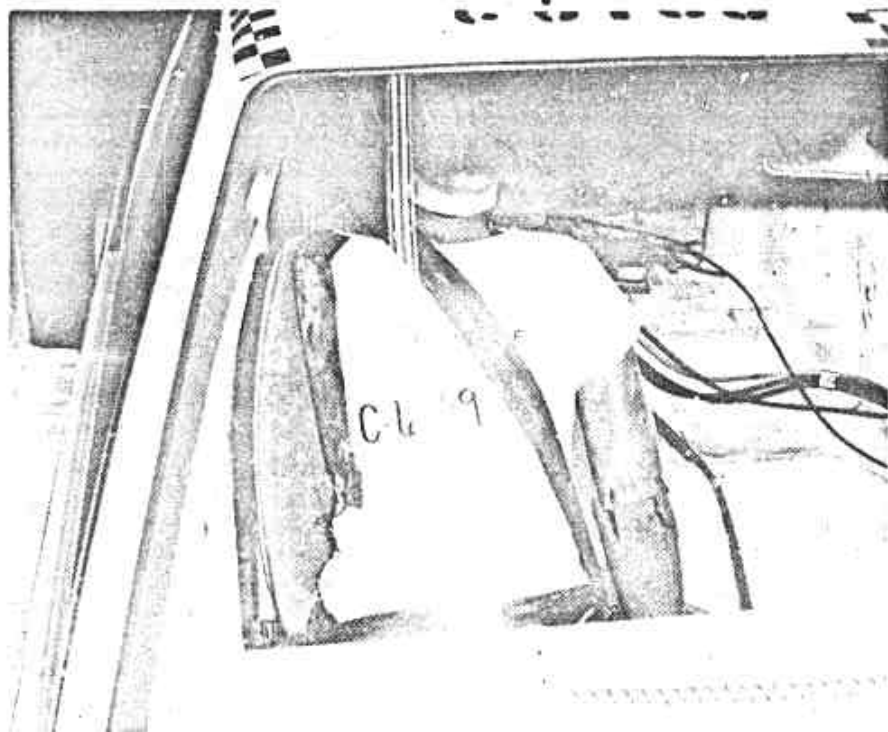


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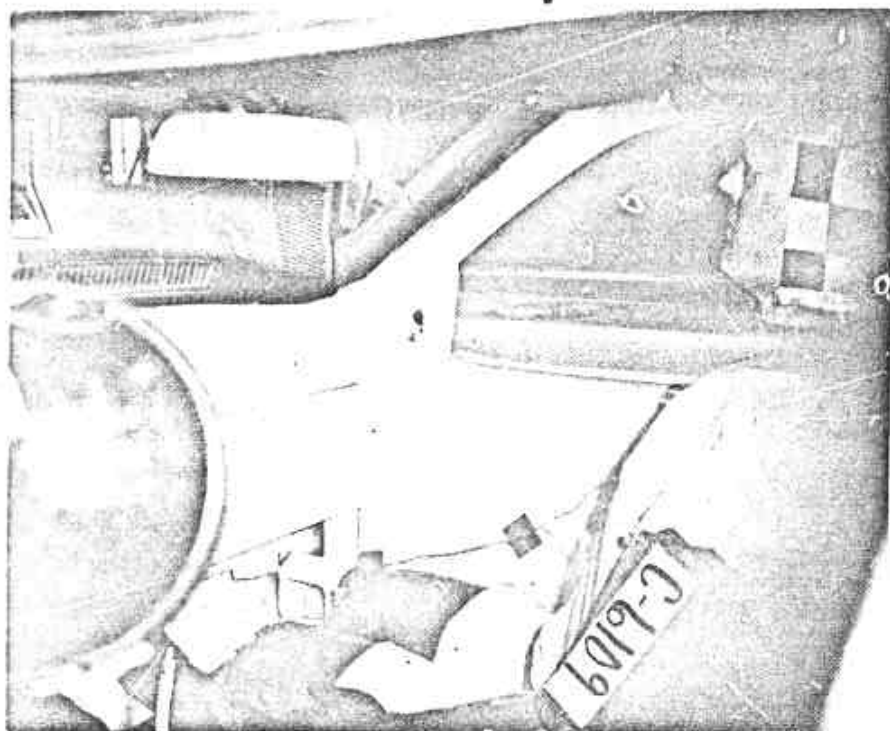


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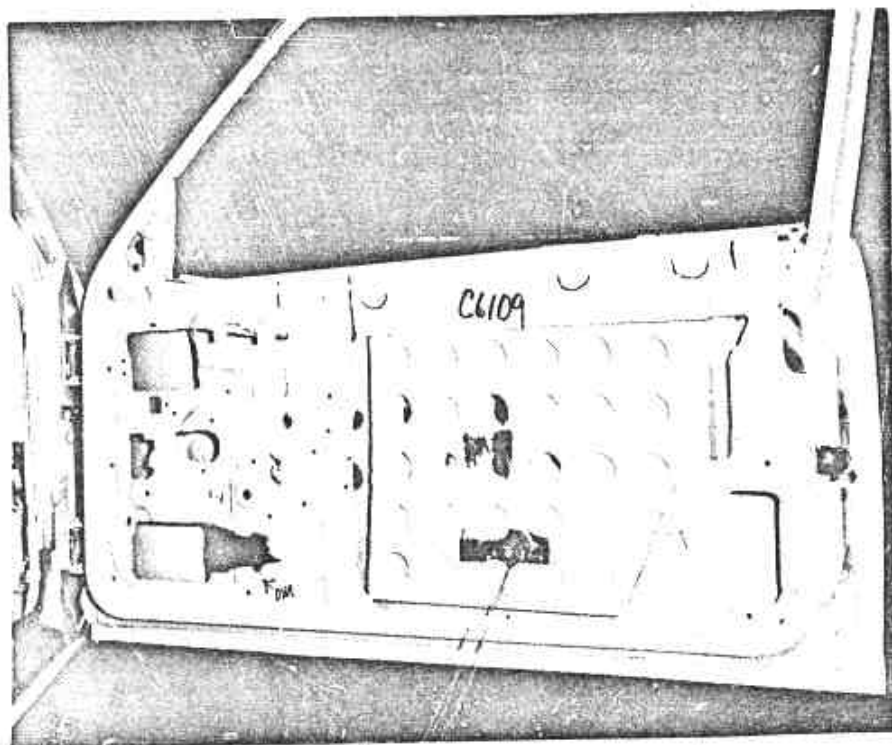
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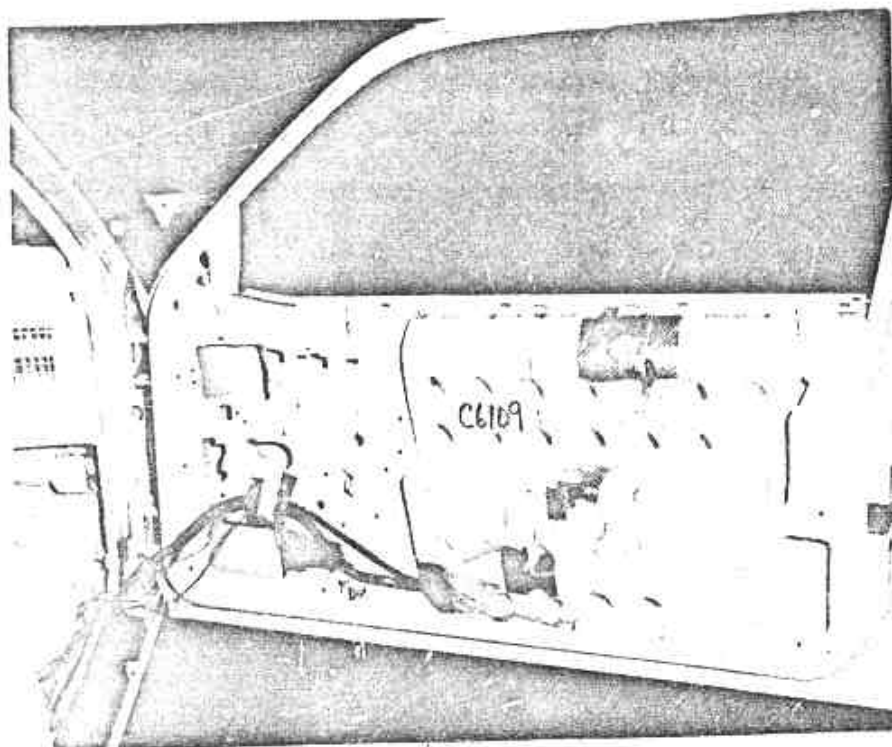
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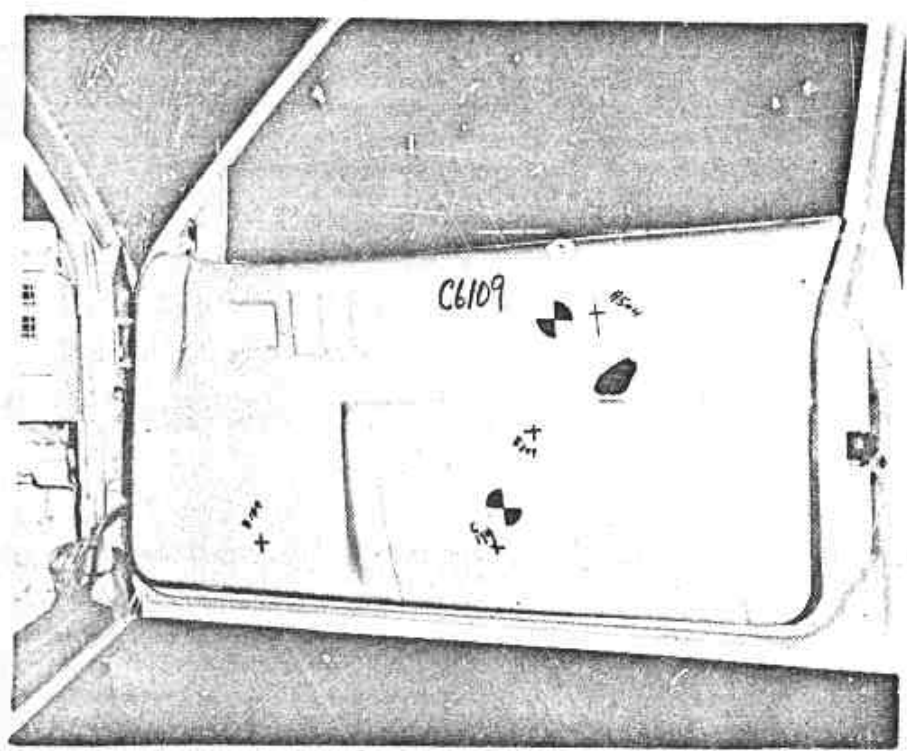
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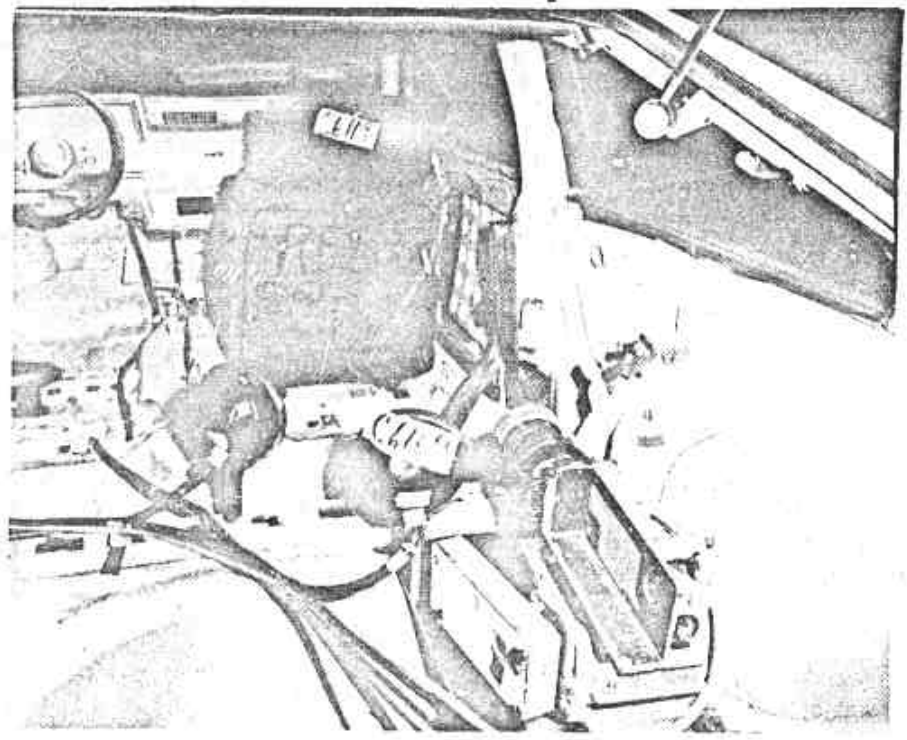
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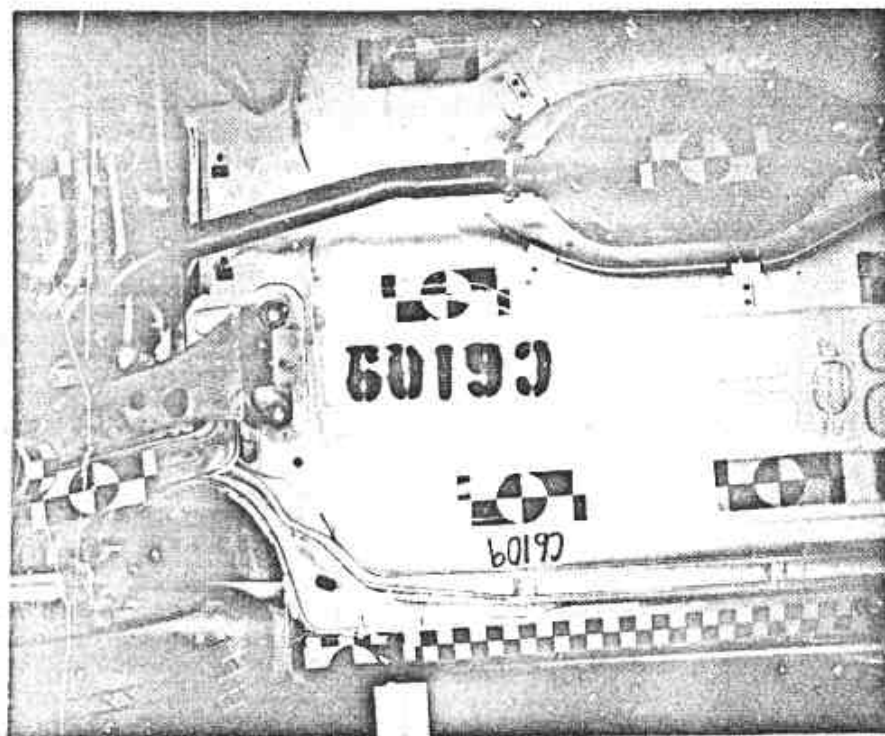
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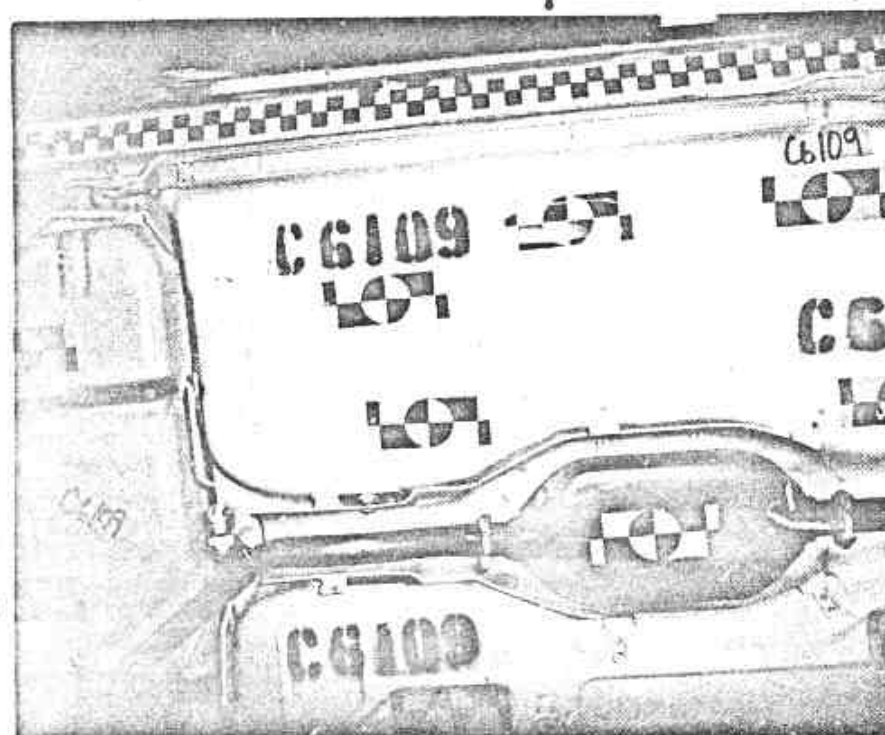
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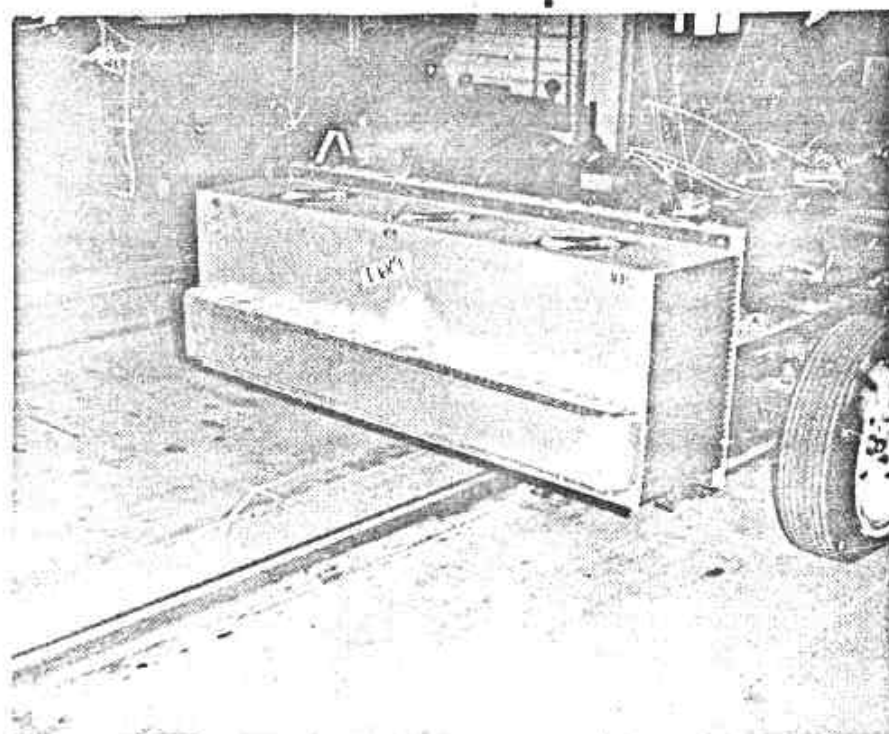
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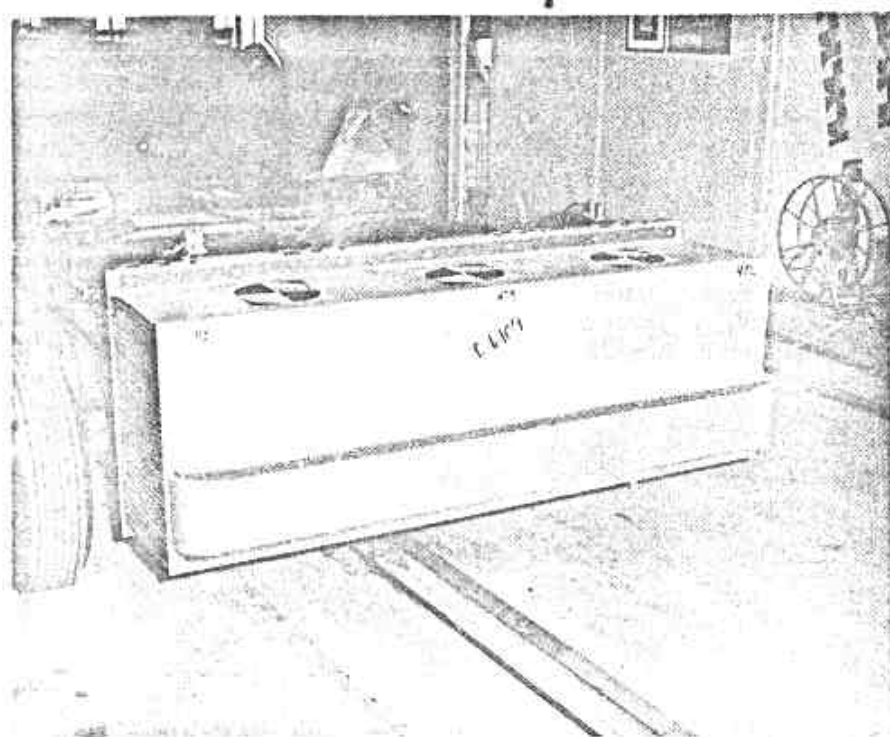
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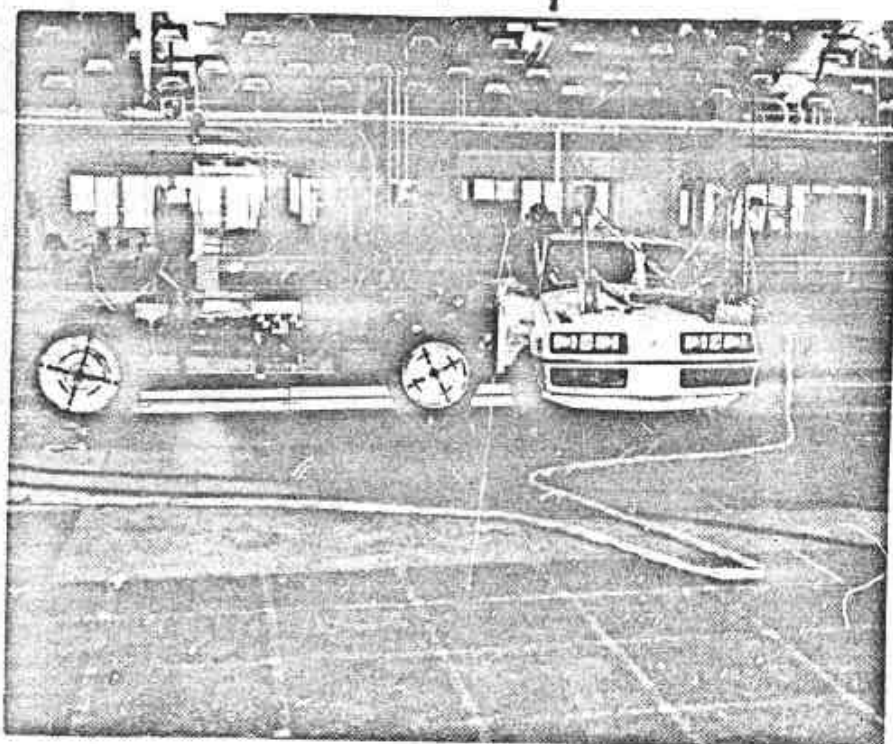
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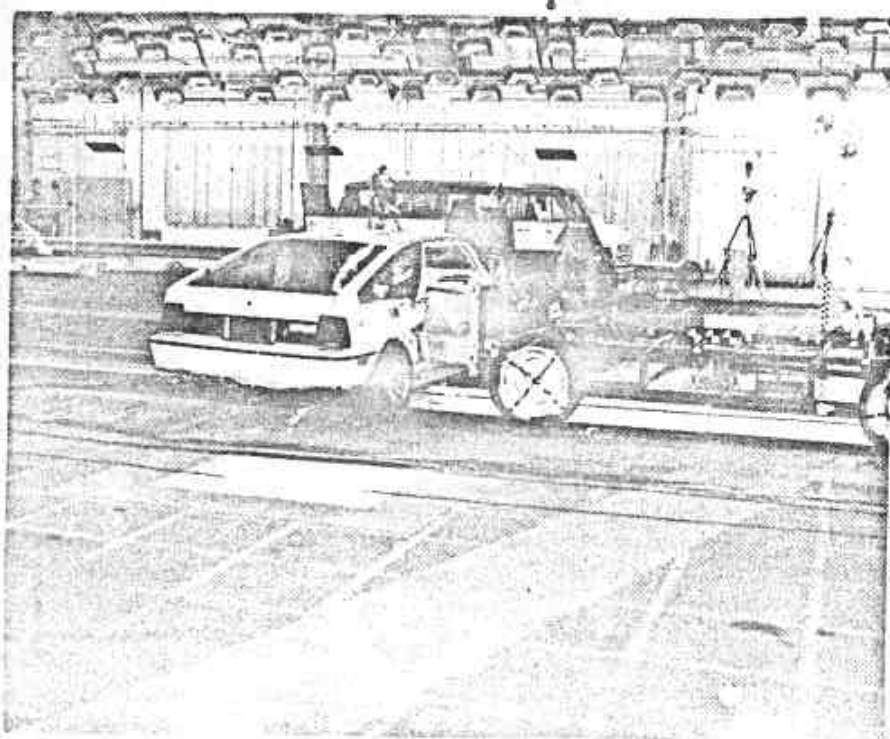
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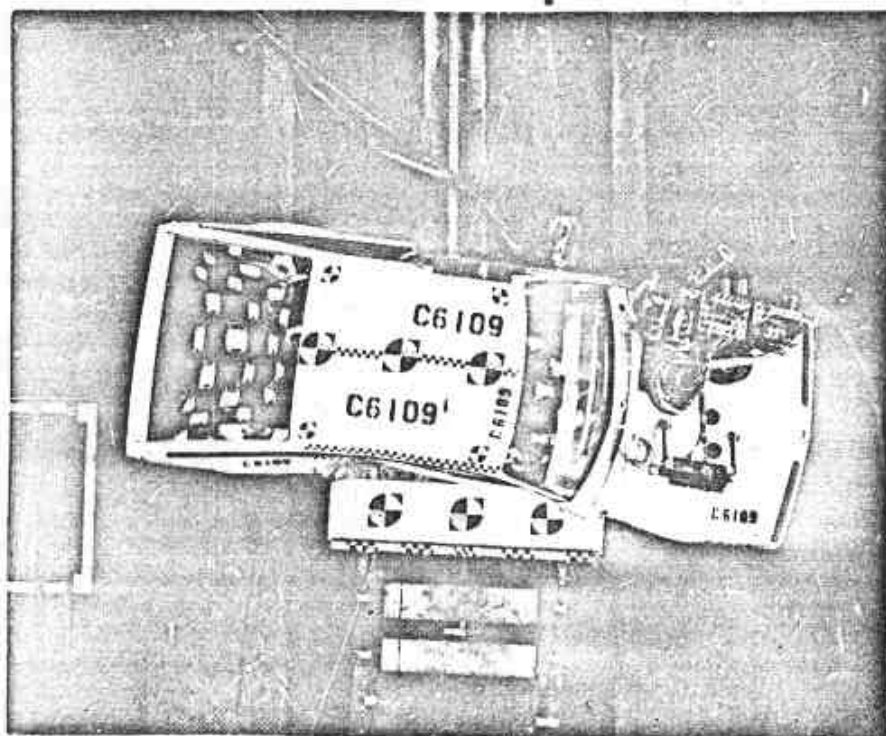
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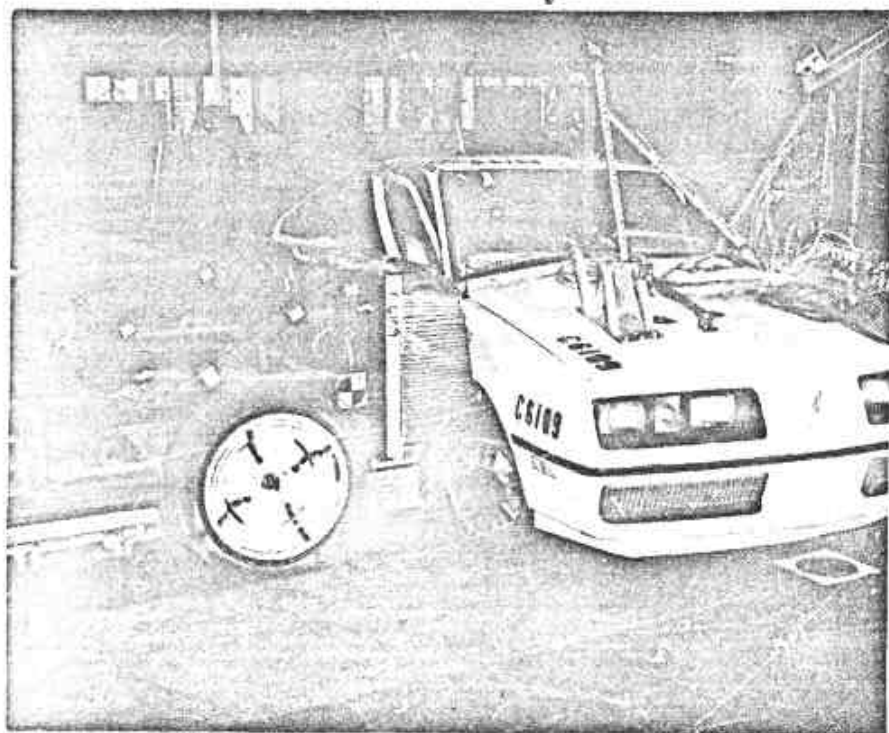
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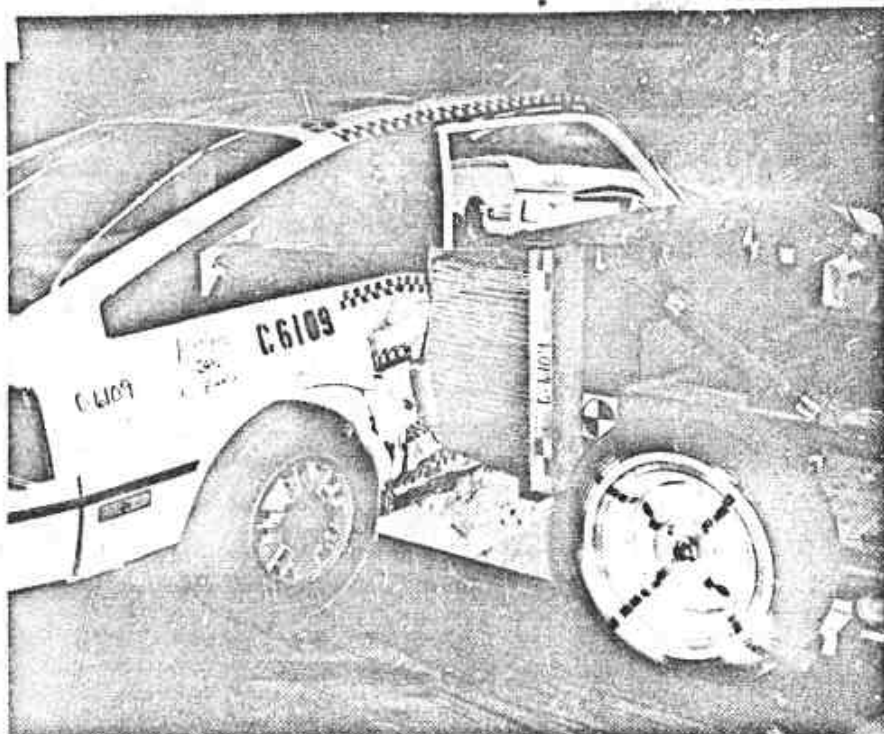
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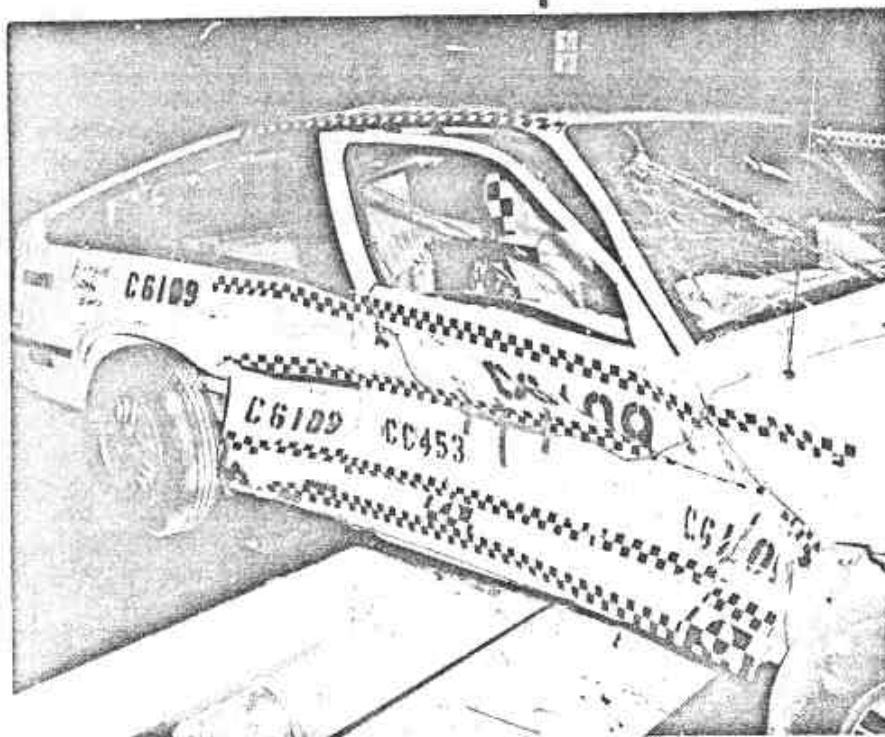
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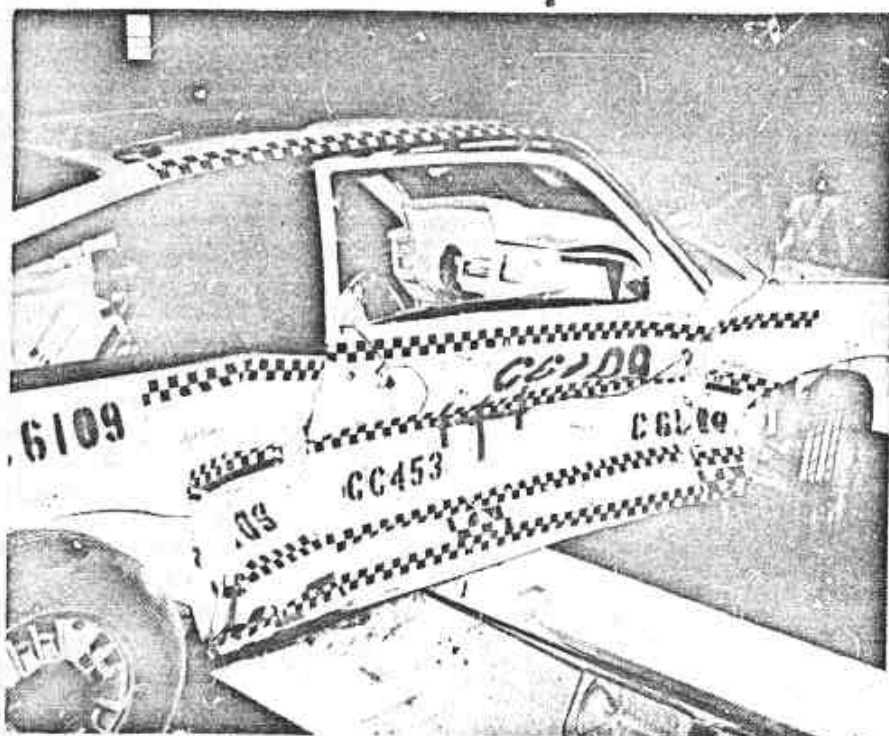
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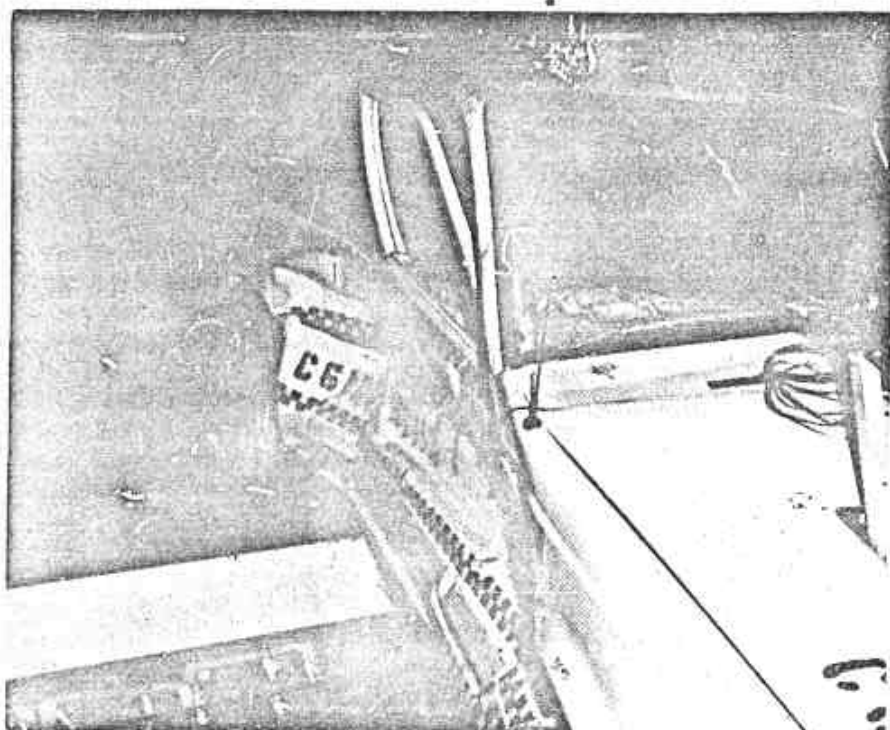
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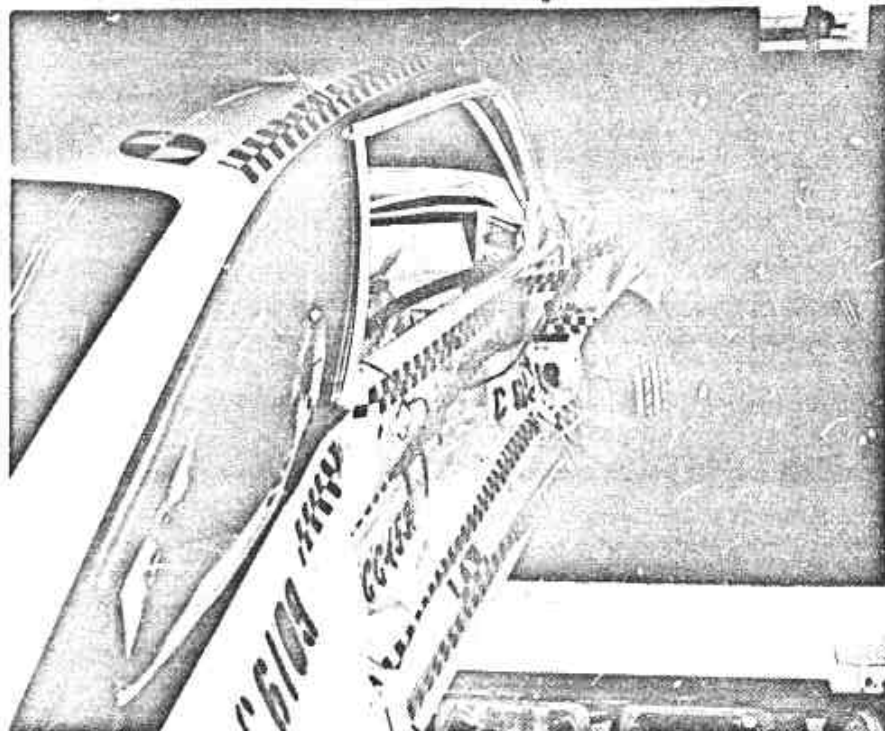
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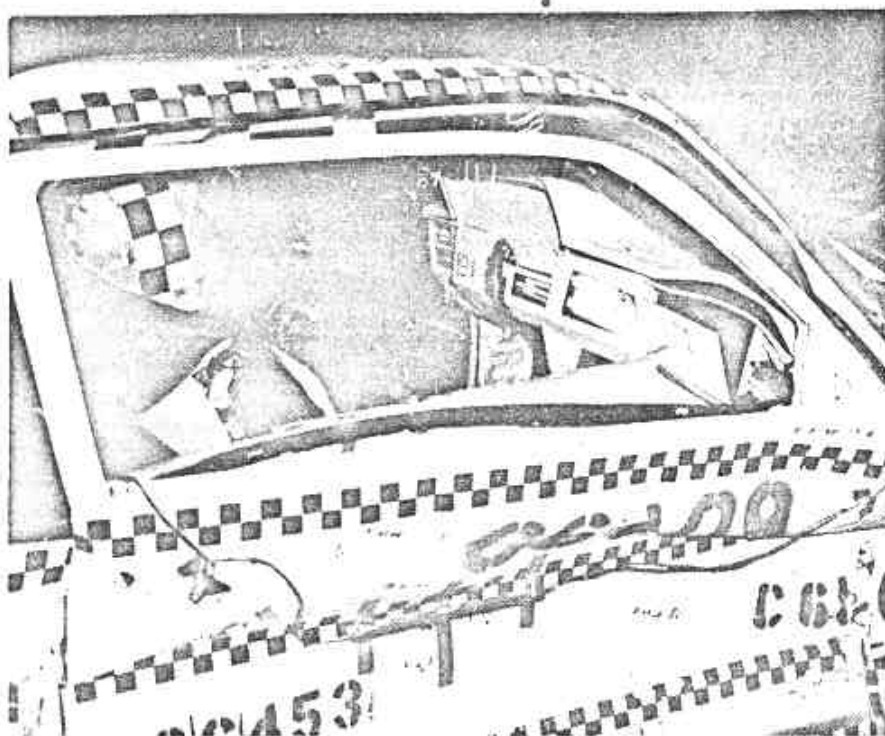
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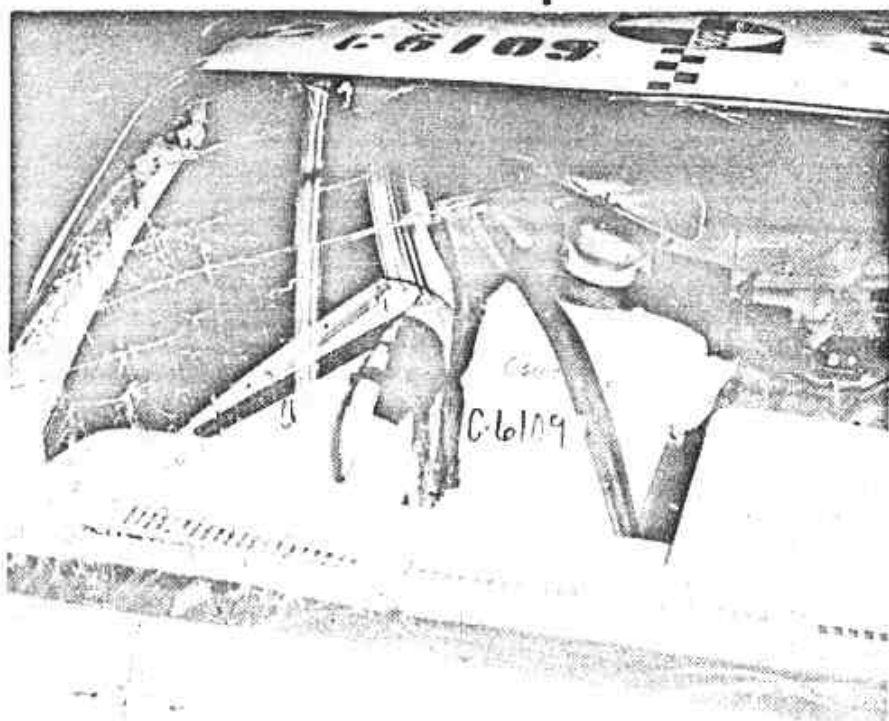


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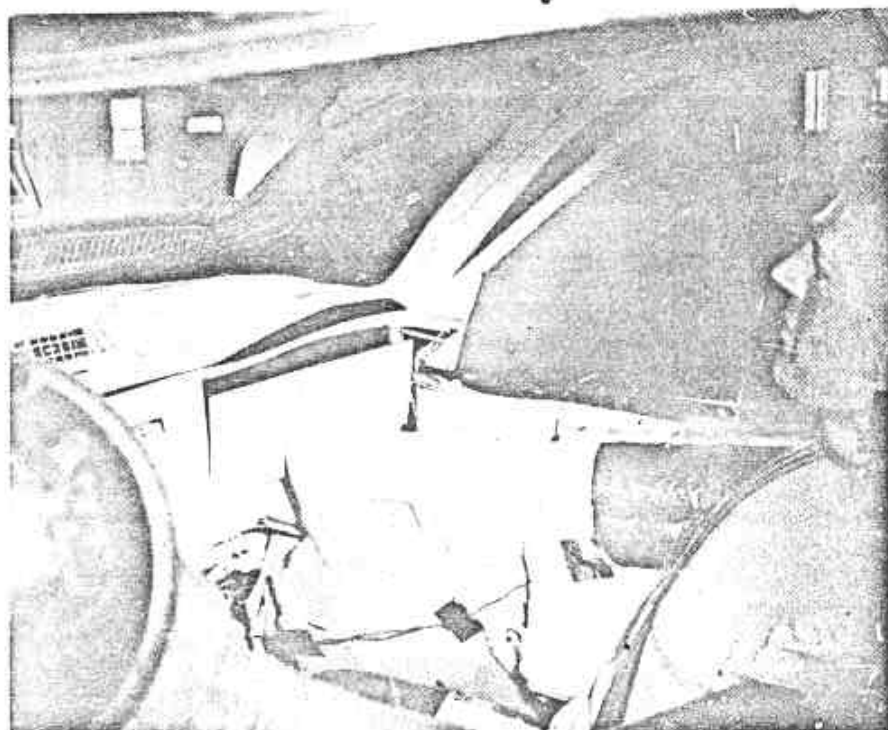


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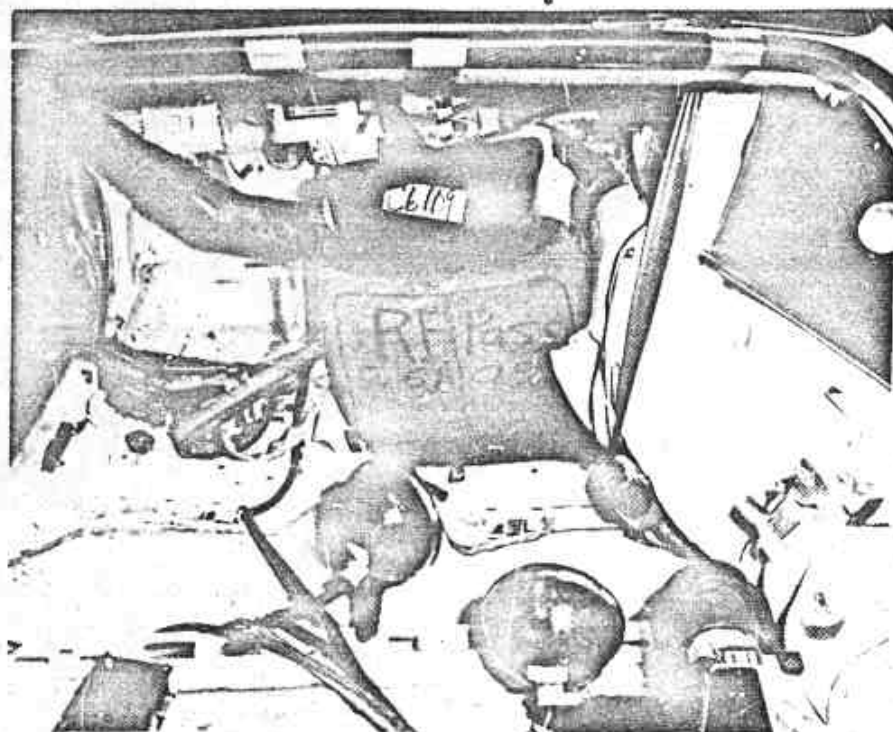




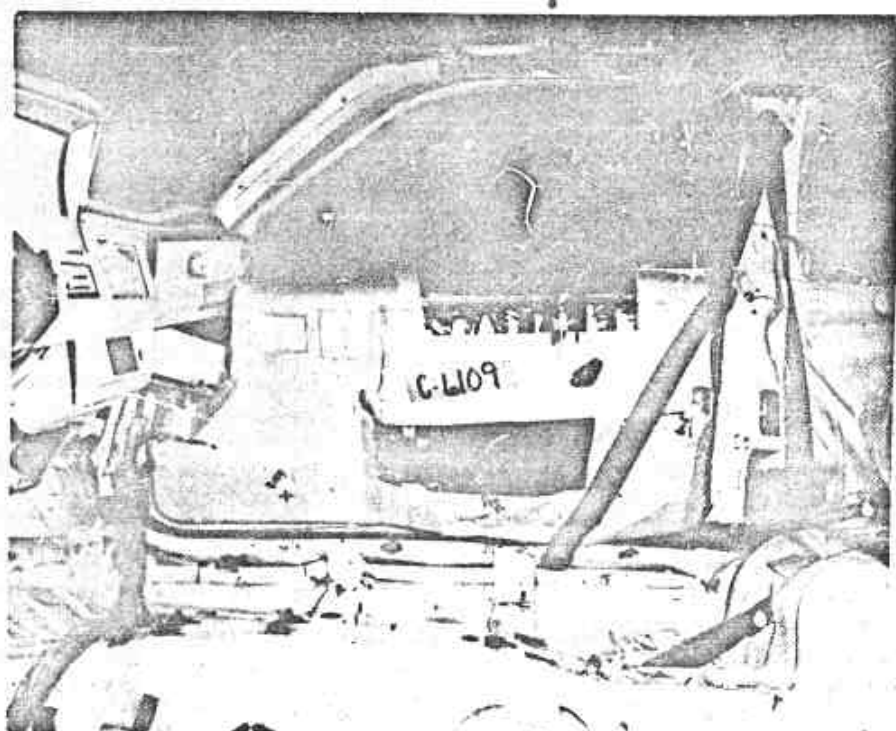
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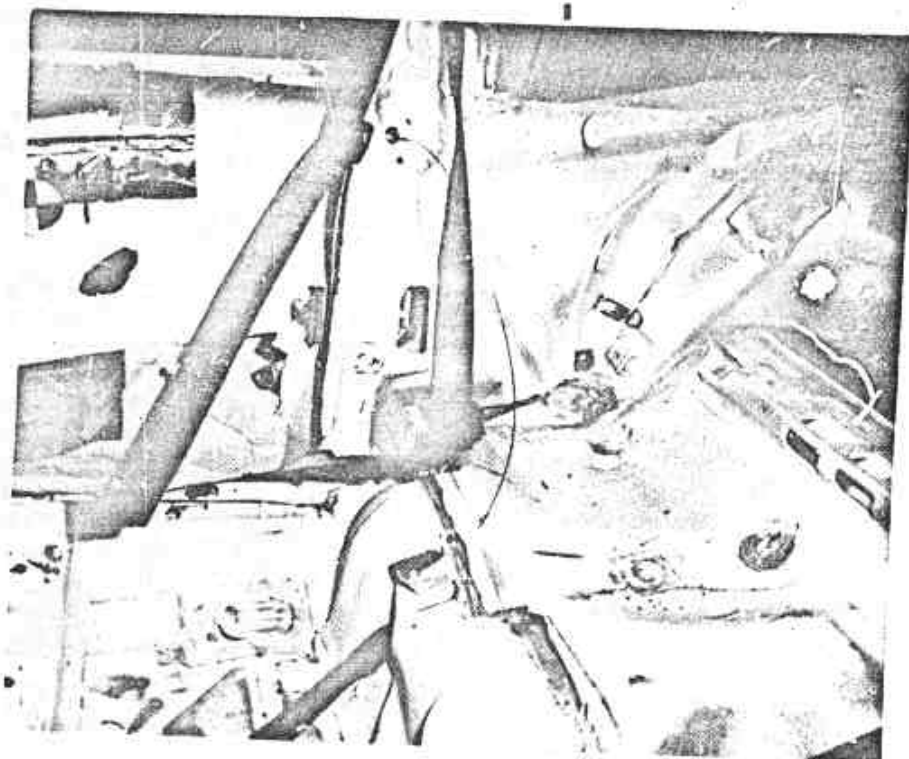


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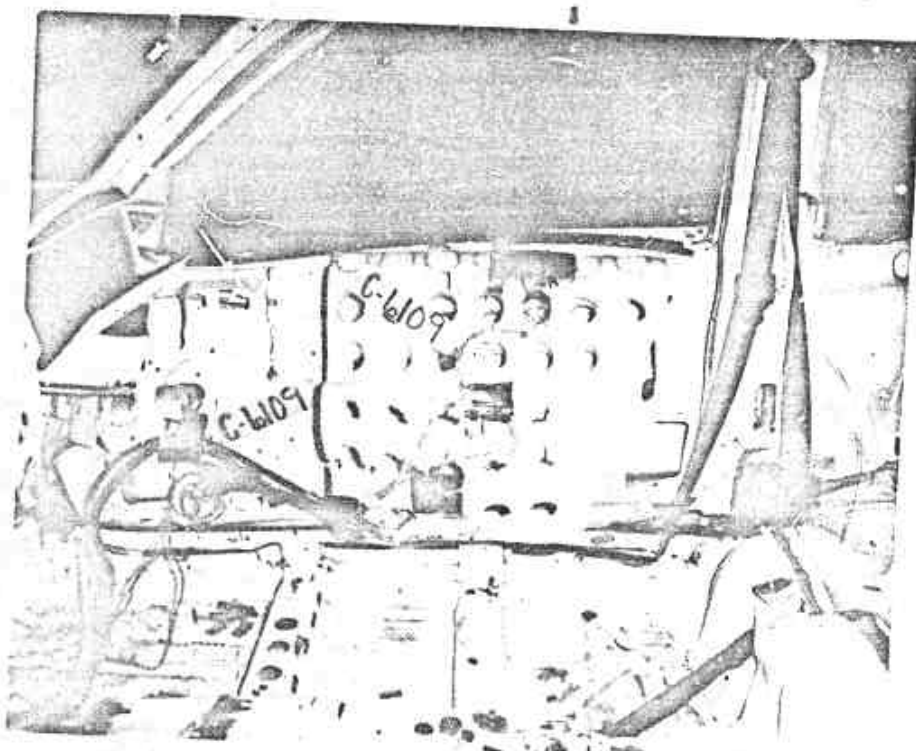


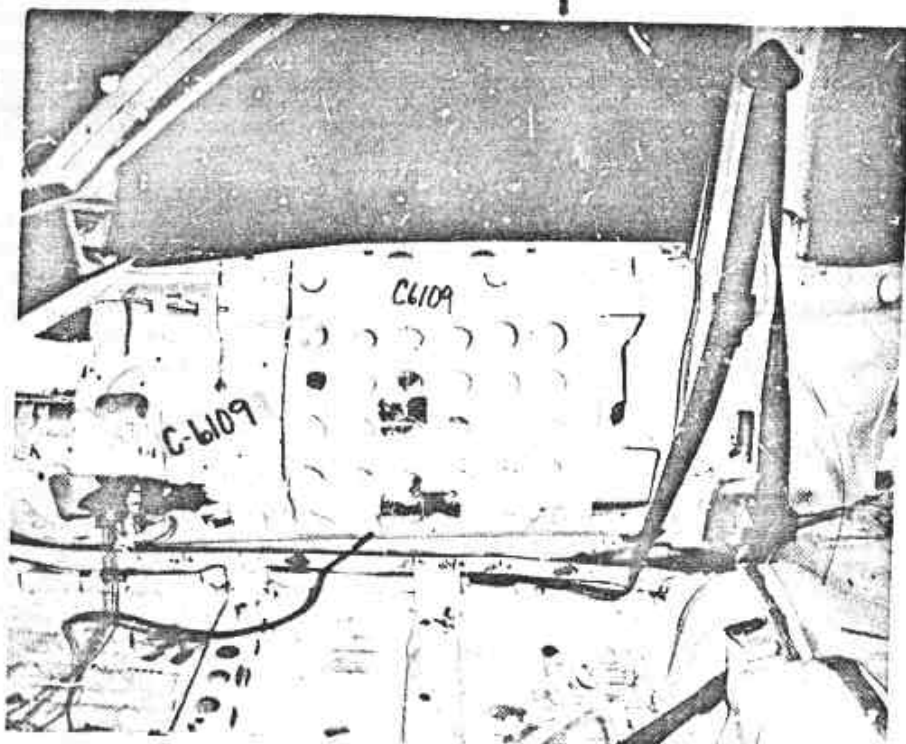
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Document No.	Fig No.
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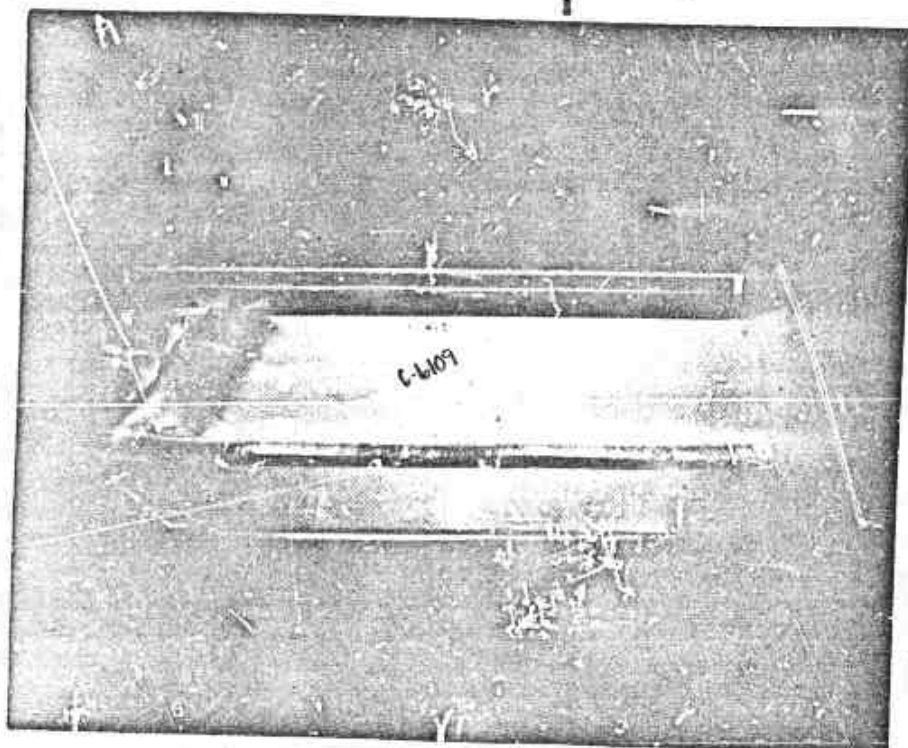


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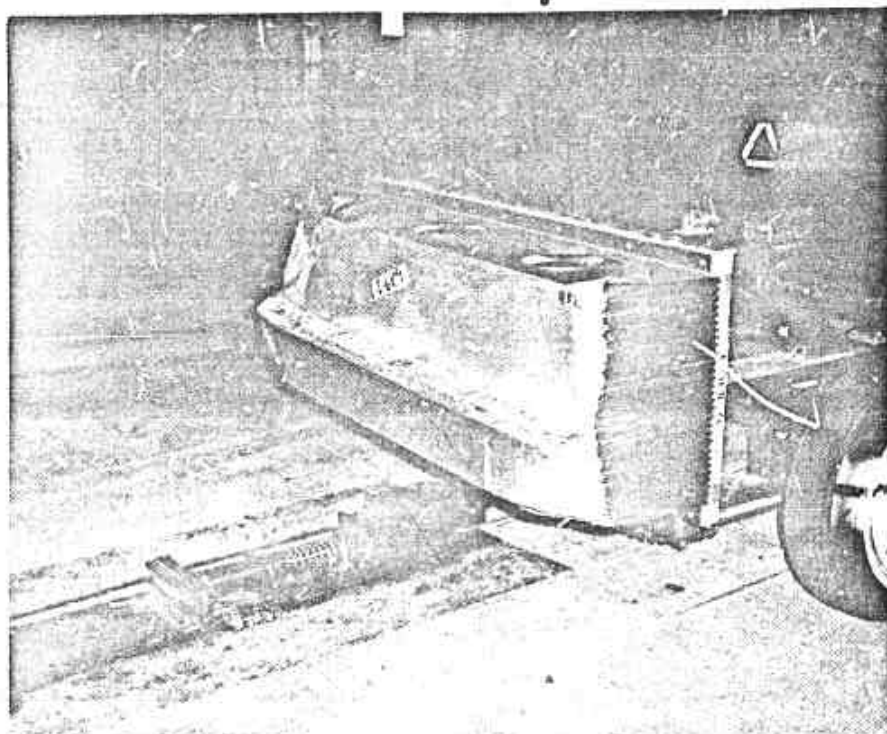




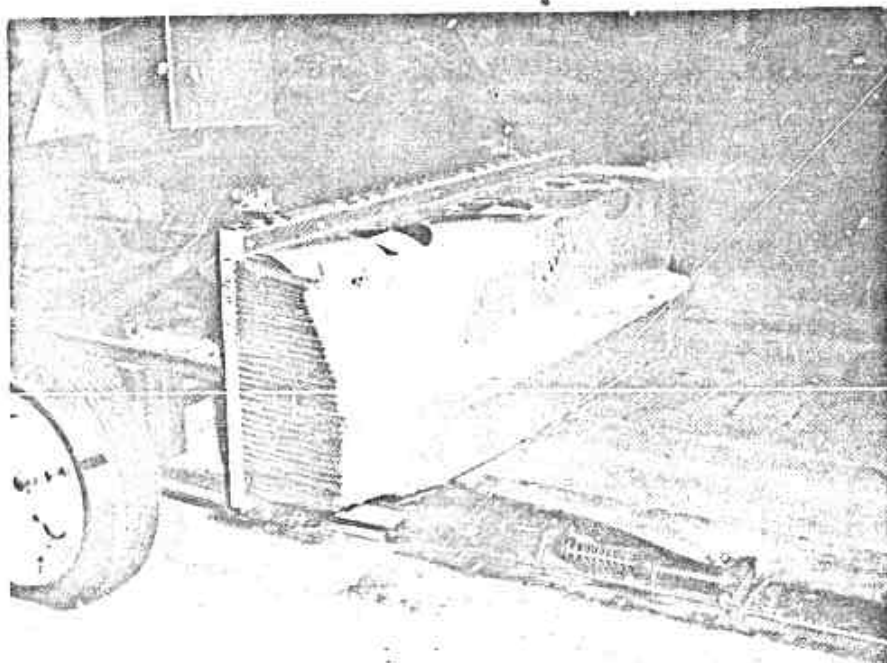
Document No	Fig No
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Document No	Fig No
47790	176



Document No.	Fig. No.
47790	1



Document No.	Fig. No.
47790	2

END REPORT

**NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
WASHINGTON, D.C.**