

1082

test report

General Motors Corporation
General Motors Proving Ground
Milford, Michigan 48042

TITLE

MOVING BARRIER TO PARKED
VEHICLE - RIGHT SIDE IMPACT
AT 90°

SAFETY RESEARCH & DEVELOPMENT LAB
Current Product Engineering

PASSENGER CAR

REPORT NO. PG 48259 DATE July 30, 1985

TEST NO. C-6185

TEST REPORT

PAGE NO. 1

TYPE IMPACT

FRONT 0° 30° LEFT 30° RIGHT
 VEHICLE TO VEHICLE STRIKING VEHICLE STRUCK VEHICLE
 VEHICLE TO
 OTHER MOVING BARRIER VEHICLE DESCRIPTION

REPORT NO. PG
 SRDL TEST NO. C-6185
 TEST DATE 4/4/85

MAKE	YEAR	BODY TYPE	BODY STYLE	DIVISION	CAR NUMBER	BUILD STATUS
lds.	1983	J-Coupe	3JC77	CC464		*Modified Production
ENGINE	CONFIGURATION	L4	DISPLACEMENT	1.8 L	STYLE	Bucket
	FUEL	Gasoline	ADJUSTER TYPE	Manual	TRIM MATERIAL	Cloth
	FUEL INDUCTION	Throttle body injection	HEAD RESTRAINT TYPE	Adjustable		
PARE TIRE	TYPE	Removed for test.	AC YES X NO	P/S YES NO	P/B YES NO	
FUEL TANK	USABLE CAP NA	L	UNUSABLE CAP NA	L	TRANSMISSION	AUTOMATIC X MANUAL SPEED 4
TRG. COL	TILT OPTION YES X NO	T&T OPTION YES NO X				

SPECIAL FEATURES: *Modifications include reinforcement extensions of the floor pan cross bars to the rocker, replacement of the striker anchor plate with an experimental striker anchor plate and reinforcement replacement of the hinges with modified 'C' hinges and passenger side door armrest removed.

TEST CONDITIONS

VEHICLE	
VELOCITY AT IMPACT	0.0 km/h
GROSS MASS	FRONT 846 kg
	REAR 407 kg
	TOTAL 1333 kg
ENGINE RUNNING	YES NO X
FUEL TANK	TEST VOLUME CONTENTS Stoddard Solvent
	ND % OF USABLE CAPACITY = (**)
FUEL LINES & CARBURETOR	FILLED YES NO X
STEERING	TILT POSITION Removed for test.
COLUMN	TELESCOPE POSITION NA
SEAT	POSITION MID
HEAD REST	POSITION DOWN
VEHICLE ATTITUDE	J = DRIVER SIDE 224 mm PASSENGER SIDE 221 mm
	K = DRIVER SIDE 214 mm PASSENGER SIDE 218 mm
REMARKS:	(**)Ballast only.

DUMMIES	
DRIVER	MAKE NO.
	TYPE MASS kg
	RESTRAINT
	LAT. POS. mm RELATIVE TO
RIGHT FRONT	MAKE **GM50SI NO.
	TYPE 50th %ile Male MASS 70.3 kg
	RESTRAINT Lap & Shoulder Belt
	LAT. POS. 334 mm RELATIVE TO Vehicle
	MAKE NO.
	TYPE MASS kg
	RESTRAINT
	LAT. POS. mm RELATIVE TO

TEST CONFIGURATION:
 See Page 2 for Test Configuration

RECORDED DATA

VEHICLE DATA -- See Page 2		DUMMY DATA	
DRIVER PANEL AVERAGE ACCELERATION	FRAME ACCELERATION	DR	RF
DRIVER PAN AVERAGE ACCELERATION	ENGINE ACCELERATION		X
DRIVER FACE LOAD CELLS			
STEERING COLUMN DISPLACEMENT			
DRIVER TIE BAR ACCELERATION			X
DRIVER ACCELERATION			
DRIVER SENSORS			
STEERING COLUMN COMPRESSION			X
DRIVER FACES			
DRIVER REINFORCEMENTS			X
DRIVER PAN DISPLACEMENT			X
DRIVER PILLAR DISPLACEMENT			X
PHOTOGRAPHIC COVERAGE			
OFFBOARD DRIVER SIDE	PASSENGER SIDE	OVERHEAD	HOOD
UNDERBODY X	FUEL TANK	OVERALL	DOCUMENTARY X
ONBOARD UNDERDASH	DRIVER	RIGHT FRONT PASSENGER	STEERING COLUMN
OTHER			GLOVE BOX
			IMPACT AREA X
			RT FRONT DOOR X

POOR ORIGINAL

NA NOT APPLICABLE ND NOT DETERMINED

RECORDED VEHICLE DATA

(STRUCK VEHICLE)

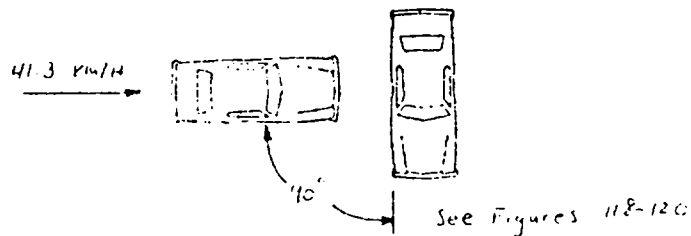
- o Right side door triaxial accelerations at Points A, B, C, and D
- o Driver side door lateral acceleration at Point A'
- o Right side 'B' pillar lateral displacement
- o Driver side floorpan triaxial acceleration
- o Right side trunk triaxial acceleration

(STRIKING VEHICLE)

- o Front triaxial acceleration
- o Mid triaxial acceleration

TEST CONFIGURATION

The longitudinal centerline of the striking vehicle is aligned with Point 'C' on the right front door of the struck vehicle. Point 'C' is 303 mm rearward of the fiducial point. The bumper height of the striking vehicle was 394 mm from the bottom edge to ground.

TEST DUMMY MODIFICATION

The dummy's right arm, shoulder clavicle, Ensolite chest pad, leather bib, and all leather sternum stiffeners were removed prior to test. Padding to the right shoulder clavicle cavity, two rib potentiometer, one lower spine accelerometer and two rib accelerometers were added to the dummy for additional data. The total weight of the dummy was 70.3 kg.

STRIKING VEHICLE DESCRIPTION

NHTSA-developed crushable moving barrier with energy-absorbing face. The absorbing face is made of Hexcel and was developed to give the same characteristics as the crush of a 1980 GM X-body.

Test Weight: Front 897 kg, Rear 452 kg, Total 1349 kg.

POOR ORIGINAL

STRUCK VEHICLE
TRANSDUCER LOCATIONS

<u>OINT</u>	<u>Location of Point Measured</u>	<u>Coordinates Relative to Nearest Fiducial Point (mm)</u>	<u>Ref. Photo Fig. No.</u>
A	Right side door - inner panel, inner surface.	450 rwd, 504 up	<u>126</u>
A'	Driver side door - inner panel, inner surface.	450 rwd, 504 up	_____
B	Right side door - inner panel, inner surface.	376 rwd, 349 up	<u>126</u>
C	Right side door - inner panel, inner surface.	303 rwd, 194 up	<u>126</u>
D	Right side door - inner panel, inner surface.	102 rwd, 169 up	<u>126</u>
	Center 'B' pillar - inner panel, right side at beltline.	ND	
	Floorpan inner surface - driver side side.	ND	
	Trunk inner surface - passenger side.	ND	

POST-TEST OBSERVATIONS

STRIKING VEHICLE
STRUCK VEHICLE X

REPORT NO. PG.
SRDL TEST NO. C-6185

		YES	NO	PARTIAL	OTHER	FIG.	NOTE	
T	HOOD LATCH (S) REMAINED ENGAGED - PRIMARY	X						
	- SECONDARY	X						
T	HOOD HINGE ASSEMBLIES INTACT	X						
	HOOD HINGE REMAINED ATTACHED	X						
IL	FENDERS REMAINED ATTACHED TO BODY	X						
	FRONT SHEET METAL CONTACTED WINDSHIELD DAYLIGHT OPENING SURFACE			X				
	FRONT SHEET METAL PENETRATED WINDSHIELD PLASTIC LAMINATE IN DAYLIGHT OPENING AREA			X				
	ALL EXTERIOR DOORS REMAINED CLOSED	X						
	ALL EXTERIOR DOORS REMAINED LATCHED	X						
	ALL EXTERIOR DOOR HINGES REMAINED INTACT	X						
		LATCH OPERABLE		DISTANCE DOOR MAY BE OPENED (1)		(1) DISTANCE MEASURED BETWEEN DOOR OUTER SURFACE AND ADJACENT BODY OUTER SURFACE WHEN 450 N PULL IS APPLIED TO HANDLE.		
		YES	NO	OTHER				
	DRIVER FRONT			NA	Removed for test			mm
	PASSENGER FRONT		X		0			mm
	DRIVER REAR			NA				mm
	PASSENGER REAR			NA				mm
	REAR HATCH	X			Full	mm		
		YES	NO	PARTIAL	OTHER	FIG.	NOTE	
LINE	FRONT SEAT (S) REMAINED IN PRE-TEST ADJUSTMENT POSITION	X					1	
	FRONT SEAT ADJUSTERS REMAINED ATTACHED TO BODY	X						
	SEAT BACK LOCKS REMAINED LATCHED				NA			
	REAR SEAT CUSHIONS REMAINED ATTACHED				NA		2	
	INSTRUMENT PANEL REMAINED ATTACHED			X		143	3	
	GLOVE BOX DOOR REMAINED CLOSED			X		143	4	
LINE	ENGINE MOUNTS REMAINED ATTACHED	X						
	TRANSMISSION MOUNT (S) REMAINED ATTACHED	X						
	DRIVE SHAFT DEFORMED				NA			
	DIFFERENTIAL HOUSING SEPARATED				NA			
	REAR AXLE TUBE DEFORMED				NA			
	BODY TO FRAME OR CRADLE MOUNTS REMAINED ATTACHED	X						
	SPARE TIRE REMAINED IN PLACE				NA		2	
	WINDSHIELD 100% RETAINED	X						
	FUEL SPILLAGE DURING OR AFTER IMPACT			X			5	

- NOTES:
1. Driver side seat was removed prior to test.
 2. Removed prior to test.
 3. The right side of the instrument panel was partially detached.
 4. The glove box door was broken off by deformation of surrounding area.
 5. Fuel was for ballast only.

PAGE NO. 5

SRDL TEST NO. C-6185

VEHICLE DATA

Residual Lateral Displacement

Displacement (mm)

(Door Outer Surface)

Right side door at occupant shoulder (Point A)	210
Right side door at occupant mid torso (Point B)	280
Right side door at occupant hip (Point C)	320
Right side door at occupant foot (Point D)	305

(Door Inner Surface)

Right side door at occupant shoulder (Point A)	265
Right side door at occupant mid torso (Point B)	295
Right side door at occupant hip (Point C)	300
Right side door at occupant foot (Point D)	250

PAGE NO. 6

SRDL TEST NO. C-6185

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).

	BODY COORDINATES (mm)	
	LONGITUDINAL	VERTICAL
<u>DRIVER</u>		
HEAD	<u>NA</u>	<u>NA</u>
HIP	<u>NA</u>	<u>NA</u>
KNEE	<u>NA</u>	<u>NA</u>
<u>RIGHT FRT PASSENGER</u>		
HEAD	<u>3249</u>	<u>1095</u>
HIP	<u>3034</u>	<u>443</u>
KNEE	<u>2876</u>	<u>517</u>

Dummy Lateral Location: 334 mm relative to vehicle C/L.

Comments: _____

ACCELERATIONS, VELOCITIES & DISPLACEMENTS (STRUCK VEHICLE)LINE
NUMBER

RIGHT FRONT DOOR AT POINT A, B, C, D:

2 ACCELERATIONS
24 1ST INTEGRATION OF ACCELERATION
36 2ND INTEGRATION OF ACCELERATION

DRIVER SIDE FLOORPAN:

39 ACCELERATIONS
42 1ST INTEGRATION OF ACCELERATION
45 2ND INTEGRATION OF ACCELERATION

RIGHT SIDE TRUNK:

48 ACCELERATIONS
51 1ST INTEGRATION OF ACCELERATION
54 2ND INTEGRATION OF ACCELERATION

DRIVER SIDE DOOR AT POINT A':

ACCELERATION
1ST INTEGRATION OF ACCELERATION
2ND INTEGRATION OF ACCELERATION

RIGHT SIDE 'B' PILLAR AT THE BELTLINE:

DISPLACEMENT
1ST DIFFERENTIATION OF DISPLACEMENT

VEHICLE INSTRUMENTATION (STRUCK VEHICLE)

RIGHT FRONT DUMMY:

HEAD ACCELERATION
CHEST ACCELERATION
PELVIC ACCELERATION
LOWER SPINE ACCELERATION
5 RIB ACCELERATION
7 RIB DISPLACEMENT
CONTACTS

ACCELERATIONS, VELOCITIES & DISPLACEMENTS (STRIKING VEHICLE)

BARRIER FRONT:

ACCELERATIONS
1ST INTEGRATION OF ACCELERATION
2ND INTEGRATION OF ACCELERATION

BARRIER MID:

ACCELERATIONS
1ST INTEGRATION OF ACCELERATION
2ND INTEGRATION OF ACCELERATION

FILM ANALYSIS

0 STRUCK VEHICLE VELOCITY
STRIKING VEHICLE VELOCITY
STRUCK VEHICLE ANGLE RELATIVE TO GROUND
STRIKING VEHICLE ANGLE RELATIVE TO GROUND
NHTSA BARRIER ANGLE RELATIVE TO STRUCK VEHICLE ANGLE
NHTSA BARRIER RELATIVE TO STRUCK VEHICLE VELOCITY
NHTSA BARRIER RELATIVE TO STRUCK VEHICLE DISPLACEMENT

PHOTOGRAPH INDEX

RE
ER

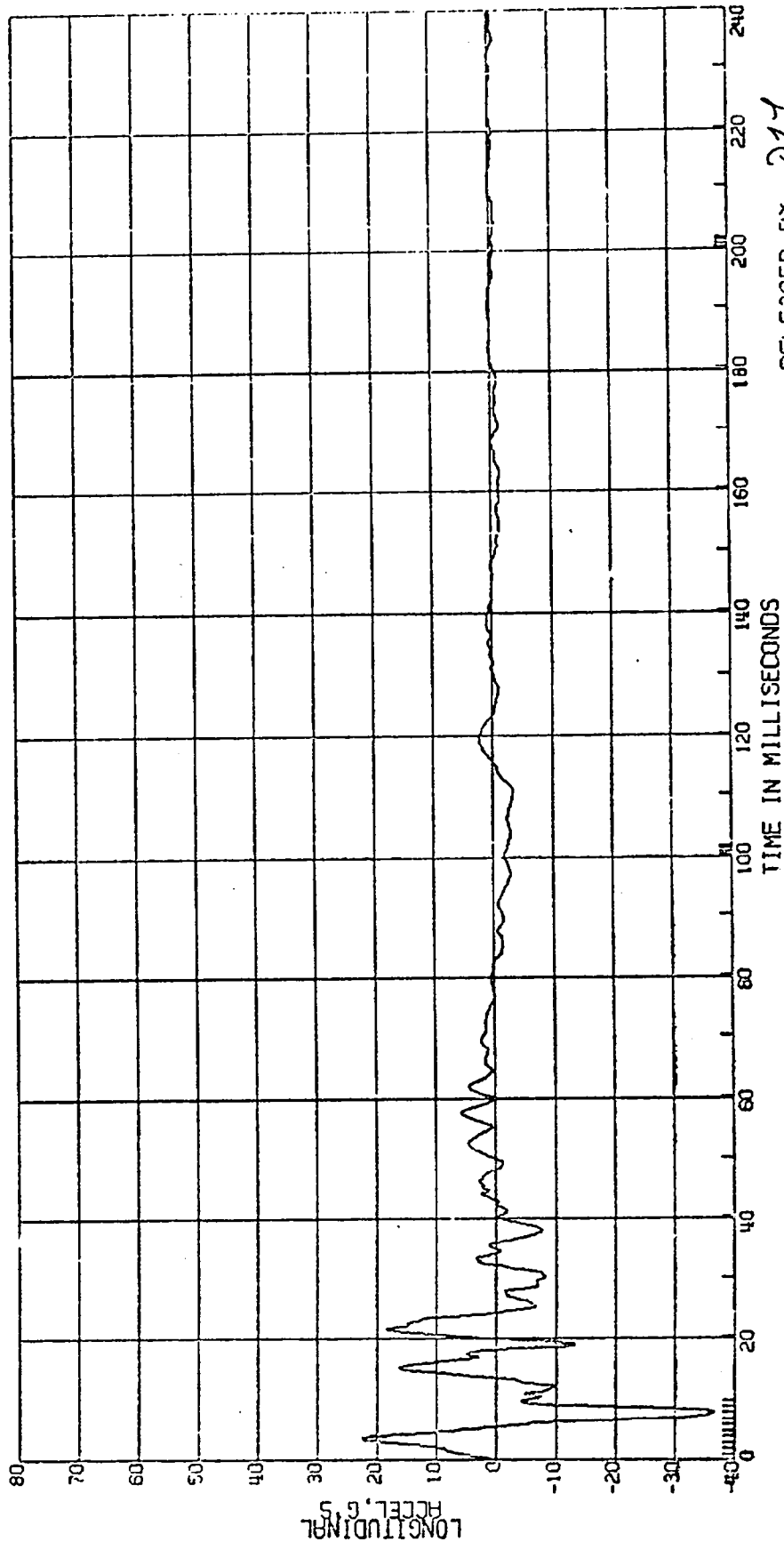
PRE-TEST PHOTOGRAPHS:

- 120 OVERALL OF TEST CONFIGURATION
- 122 CLOSEUP OF IMPACT AREA
- CLOSEUP OF PASSENGER SIDE VIEW OF STRUCK VEHICLE
- 125 DUMMY AND INTERIOR - STRUCK VEHICLE
- 127 RIGHT SIDE DOOR ACCELEROMETERS AT POINTS A, B, C, & D - STRUCK VEHICLE
- OVERALL OF IMPACT AREA UNDERBODY - STRUCK VEHICLE
- CLOSEUP OF INSTRUMENTATION AND CAMERA MOUNTING LOCATION - STRUCK VEHICLE
- CLOSEUP OF NHTSA BARRIER CRUSHABLE FACE - STRIKING VEHICLE

POST-TEST PHOTOGRAPHS:

- 133 OVERALL OF STRUCK AND STRIKING VEHICLES
- 135 CLOSEUP OF IMPACT AREA
- 138 CLOSEUP OF PASSENGER SIDE VIEW OF STRUCK VEHICLE
- 141 DUMMY AND INTERIOR - STRUCK VEHICLE
- CLOSEUP OF PASSENGER DOOR WITH SIDE PANEL REMOVED - STRUCK VEHICLE
- 145 INTERIOR CLOSEUPS WITHOUT SEAT AND DOOR PANEL - STRUCK VEHICLE
- 147 CLOSEUPS OF HEXCEL FACE - STRIKING VEHICLE

FD-302 (REV. 11-27-70) JUC / 11
A-D DATA SAE CLASS 60

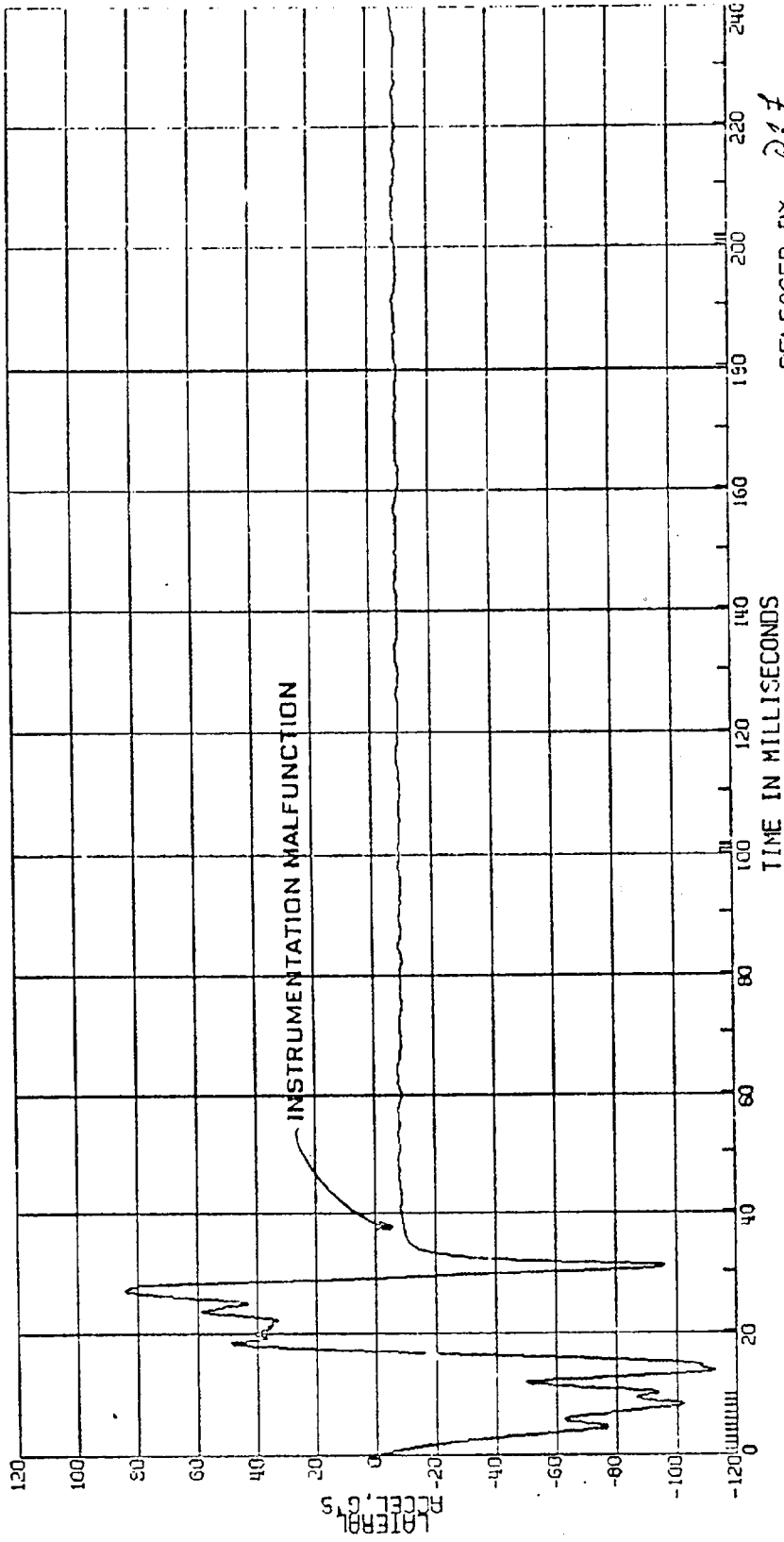


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3865-075
FB-CPC (STRUCK VEH. CC464 3JC77)
A-D DATA SAE CLASS 60

RT FAT DOOR (A) ACCEL.

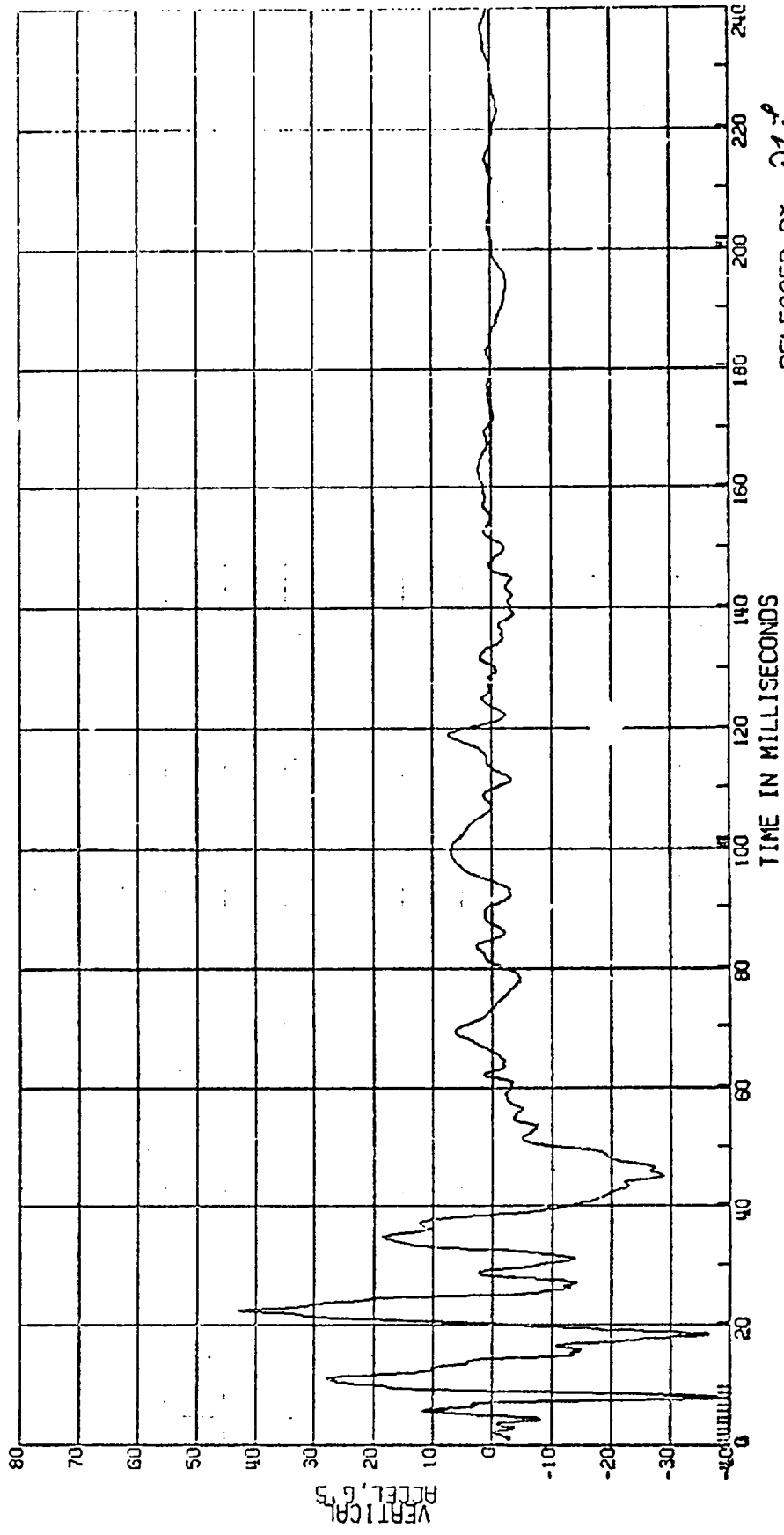
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SAE STANDARD J1471-1000

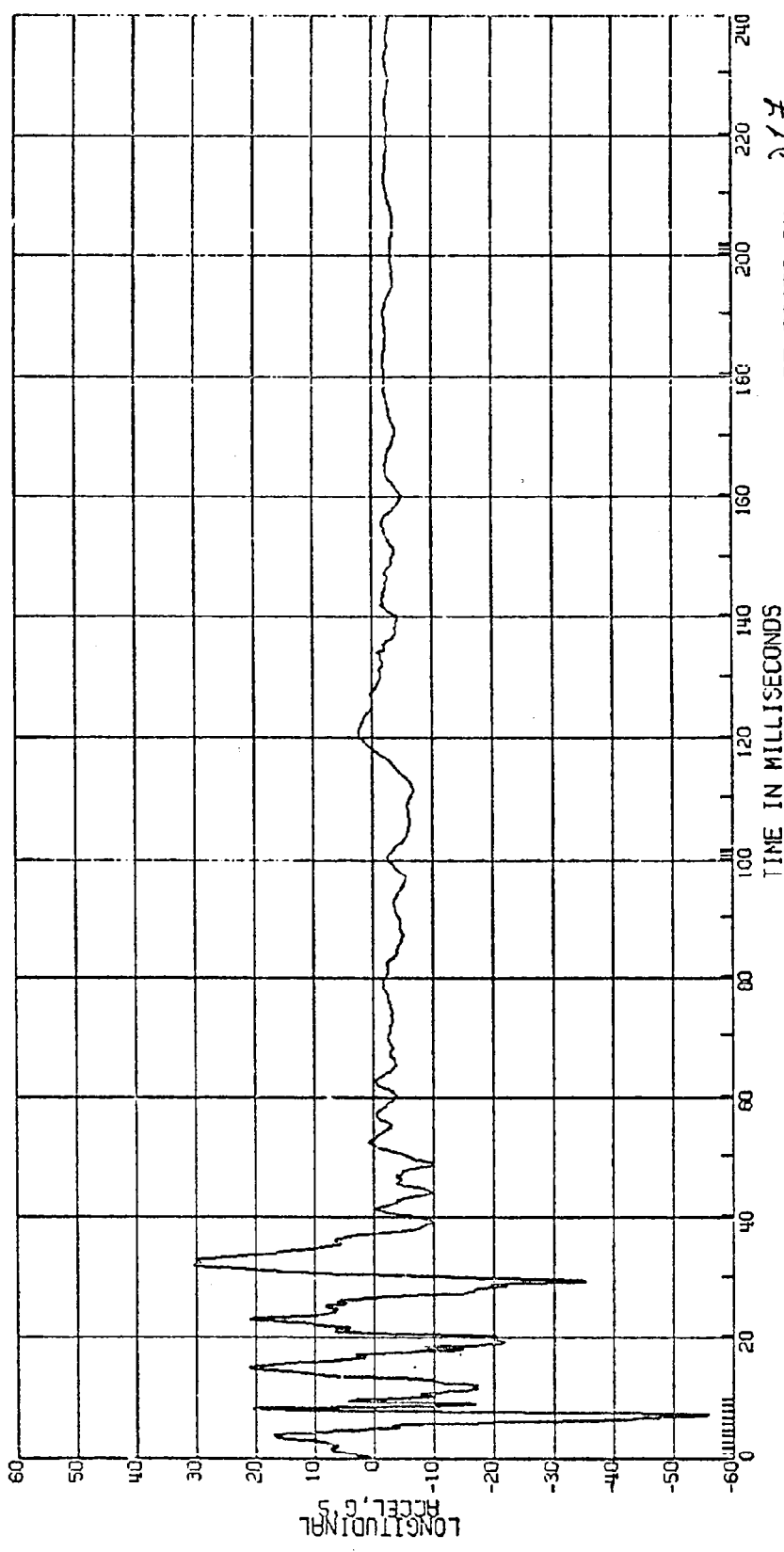
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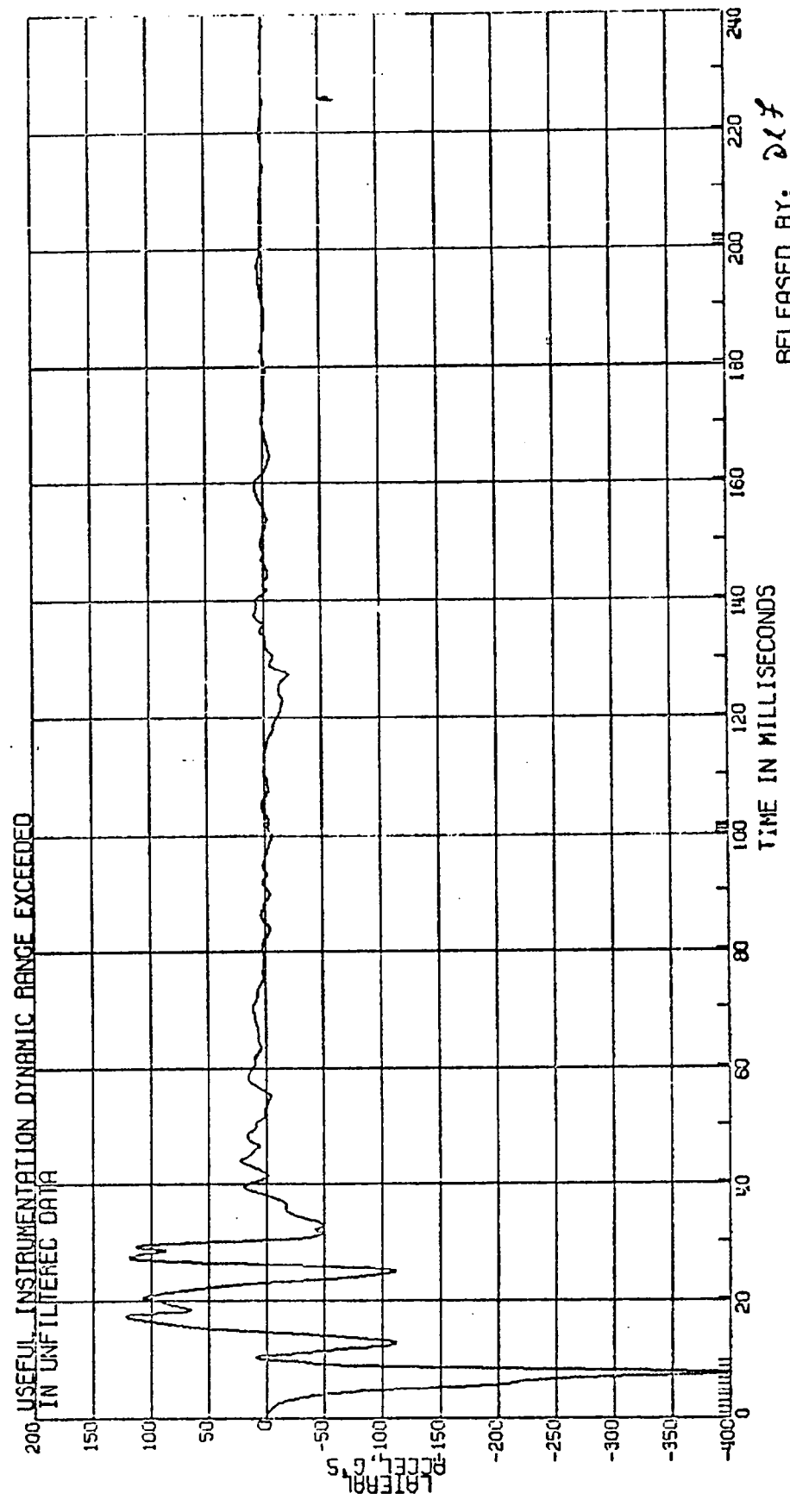
60

C61858 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 4
3865-075 RT FAT DOOR (B) ACCEL.
FB-CPC (STUCK VEH. CC464 3JC77)
A-D DATA SAE CLASS 60 TEST DATE: 04-C4-85



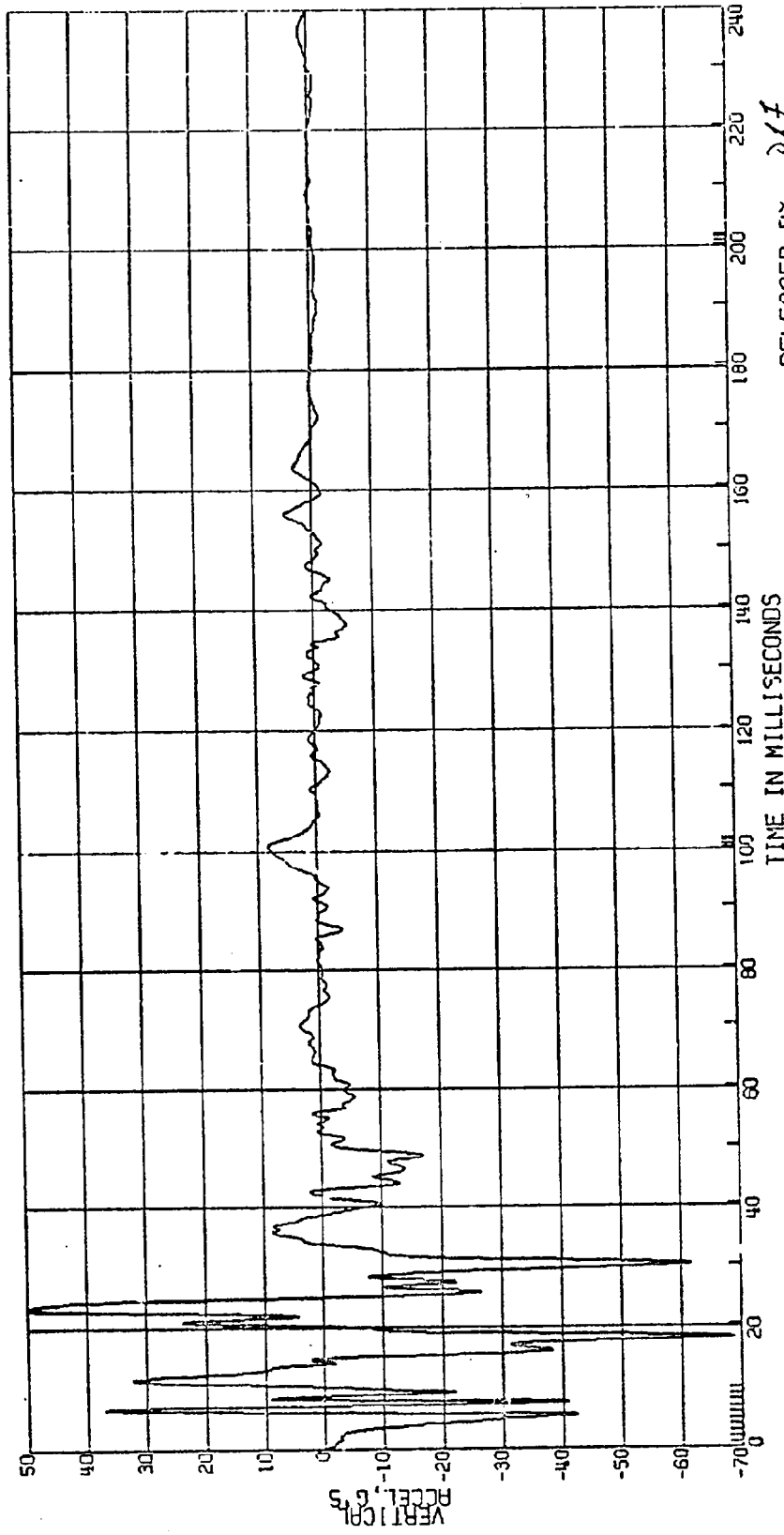
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C61858 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3 KM/H FIGURE 5
3865-075
FB-CPC (STRUCK VEH. CC464 3JC771)
A-D DATA SAE CLASS 60 RT FAT DOOR (B) ACCEL. TEST DATE: 04-04-85



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26 PROCESSED 8 APR 85 19:52

C61858 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 4
3865-075 RT FRT DOOR (B) ACCEL. TEST DATE: 04-C4-85
FB-CPC (STRUCK VEH. CC464 3JC77)
R-D DATA SAE CLASS 60



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CG1858 RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE

41.3 KM/H FIGURE 7

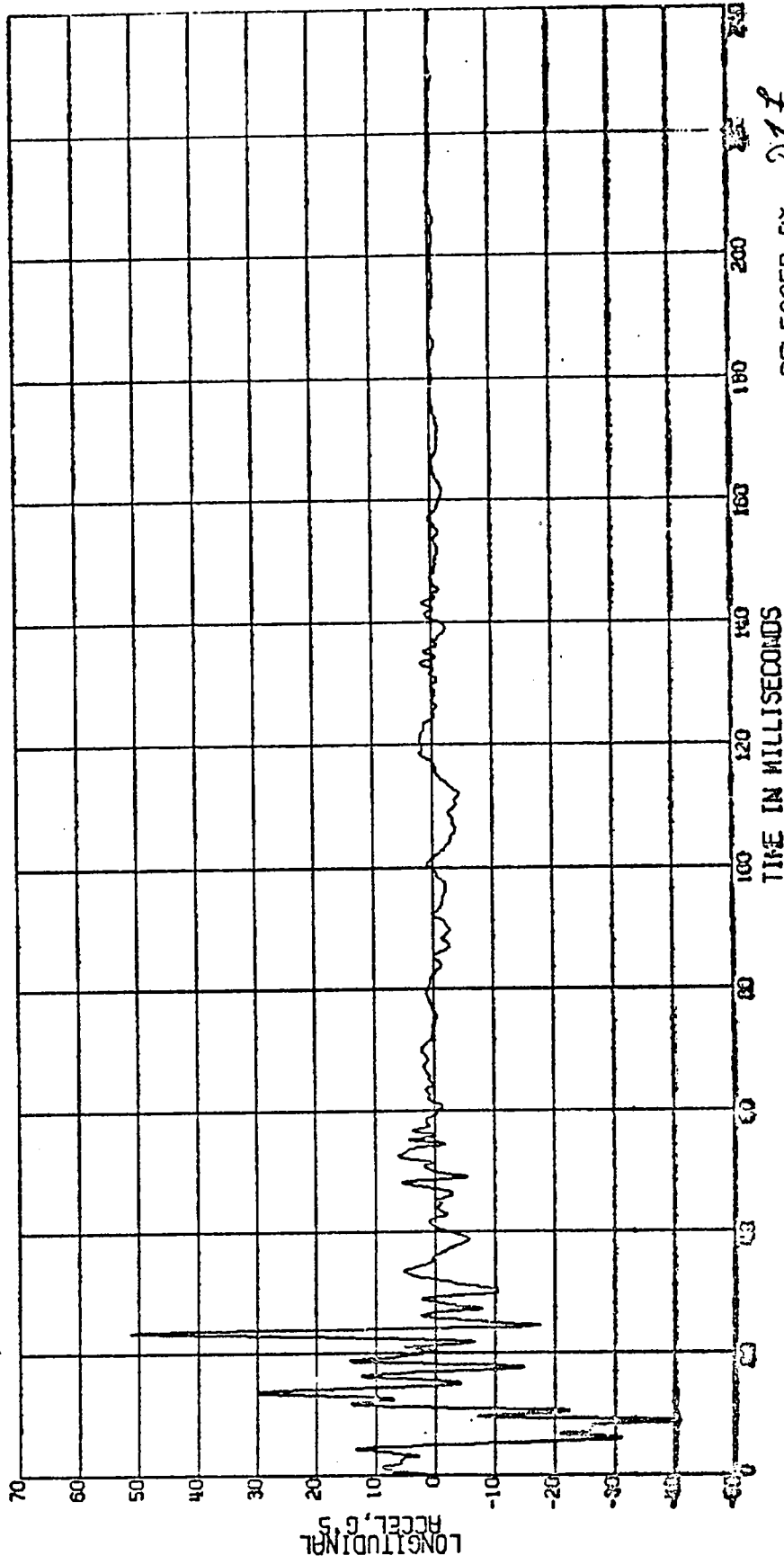
3865-075

FB-CPC (STRUCK VEH. CC464 3JC77)

AT FRT DOOR (C) ACCEL.

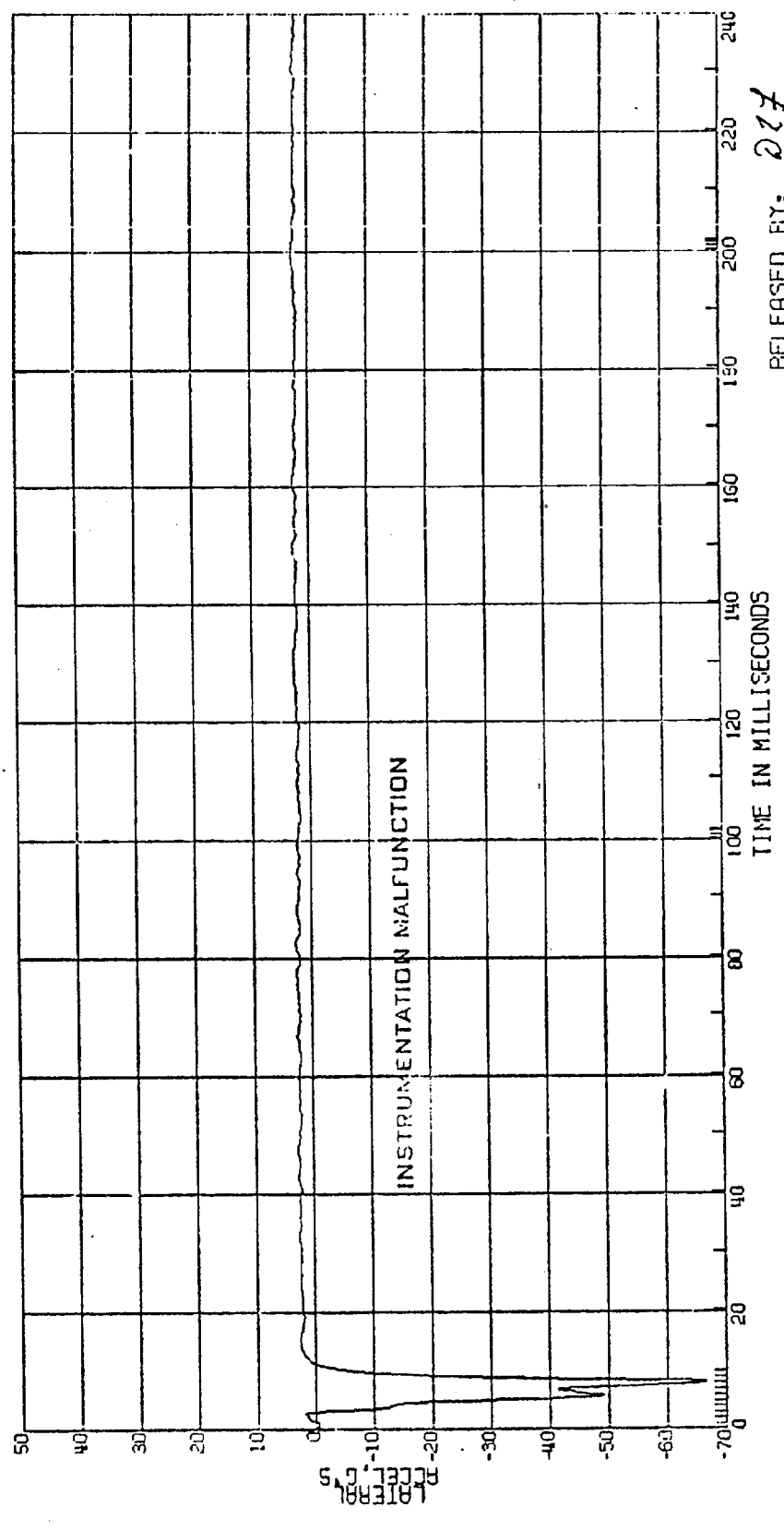
TEST DATE: 04-C4-85

A-D DATA SAE CLASS 60



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1 INDEXED 5 8 85 10-12

C61858 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3 KM/H FIGURE 8
3865-075 RT FAT DOOR (C) ACCEL. TEST DATE: 04-C4-85
FB-CPC (STRUCK VEH. CC464 3JC77)
A-D DATA SAE CLASS 60



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41.3 KM/H FIGURE 7

MOVING BARRIEN IN PARKED VEHICLE

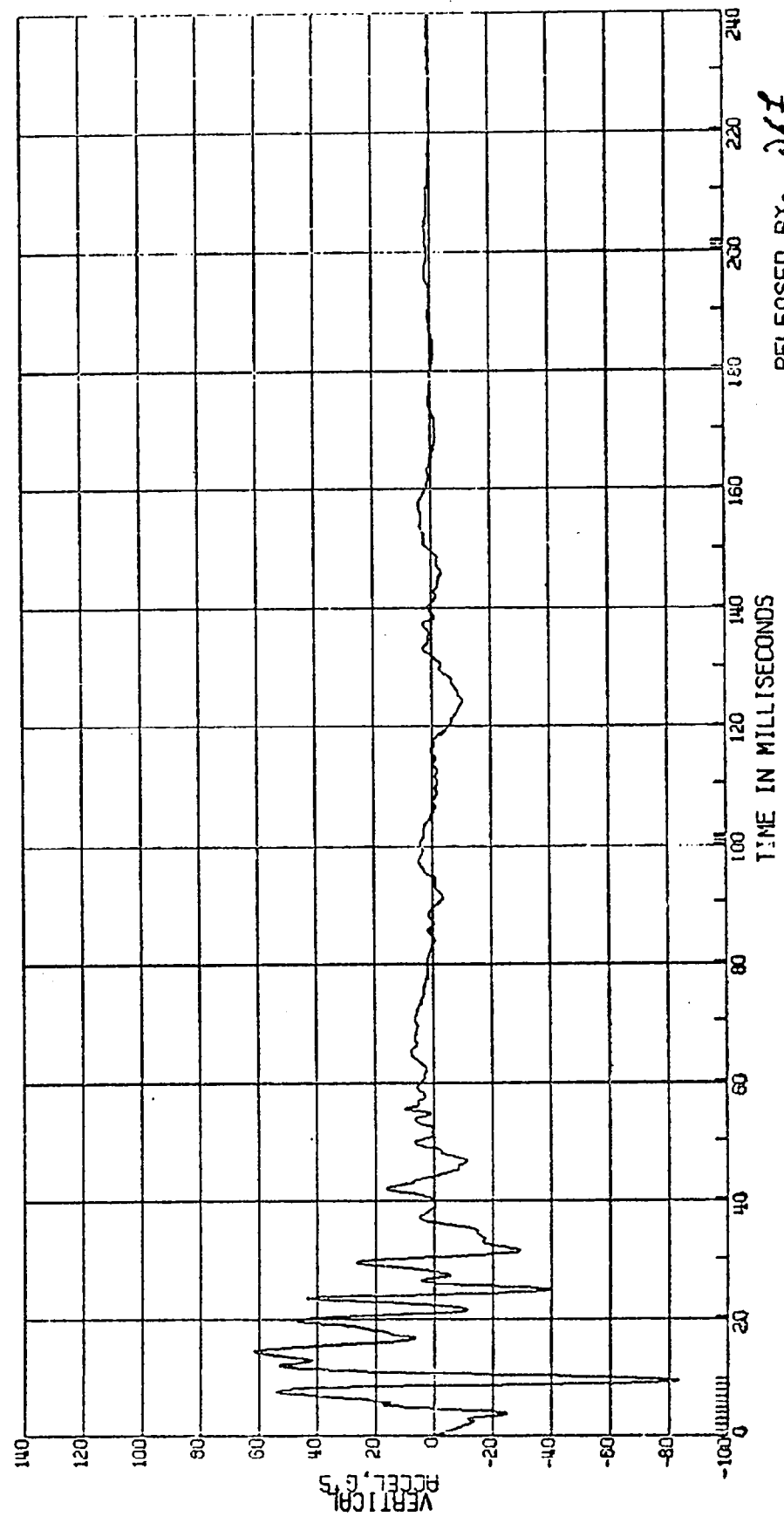
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RT FRT DOOR (C) ACCEL.

FB-CPC (STUCK VEH. CC464 3JC77)

TEST DATE: 04-C4-85

A-D DATA SAE CLASS 60

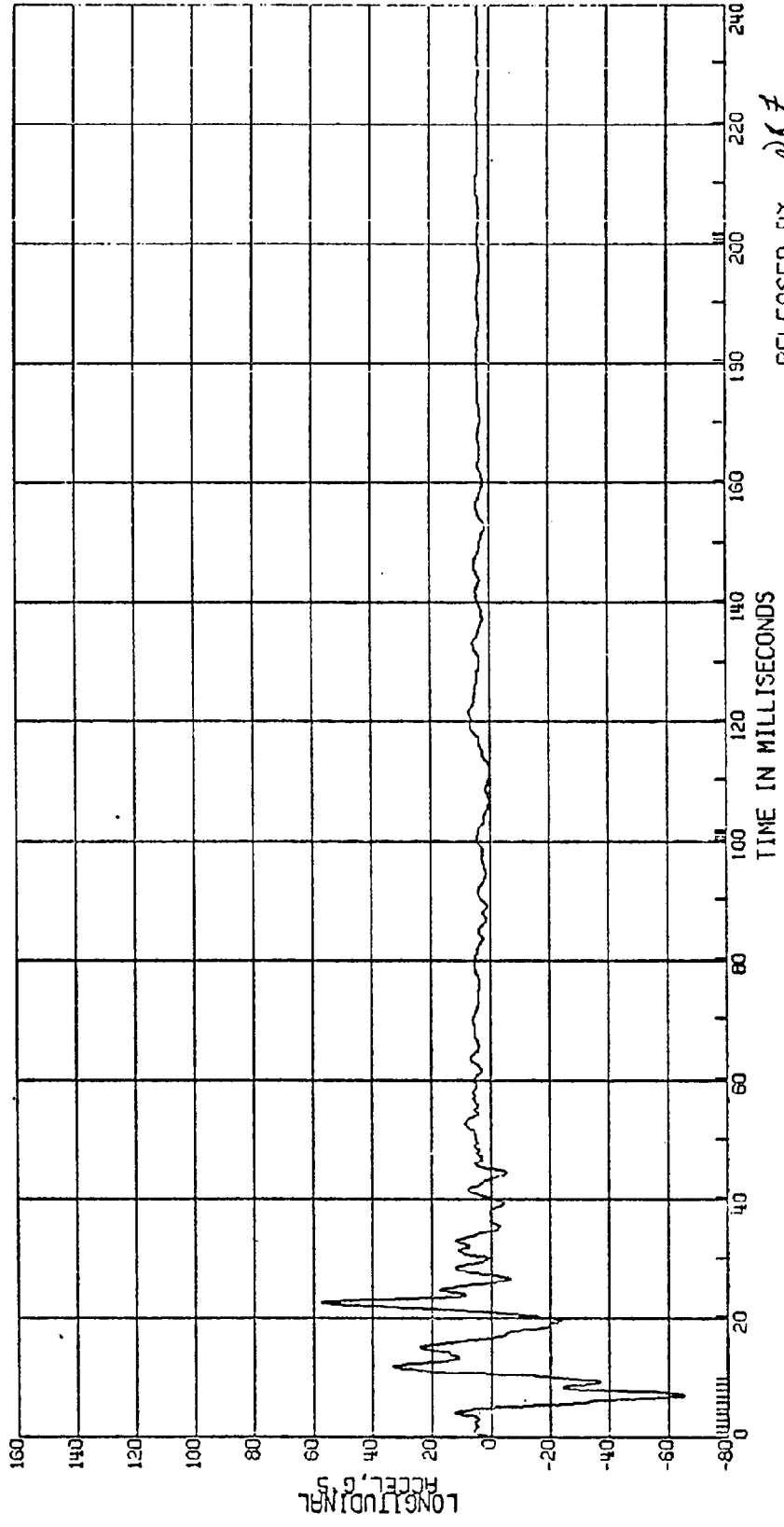


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3865-075
FB-CPC (STRUCK VEH. CC464 3JC77)
A-D DATA SAE CLASS 60

MUOVING DAMMICH IU PARKED VEHICLE 41.3KM/H FIGURE 10
AT FAT DOOR (D) ACCEL. TEST DATE: 04-04-85



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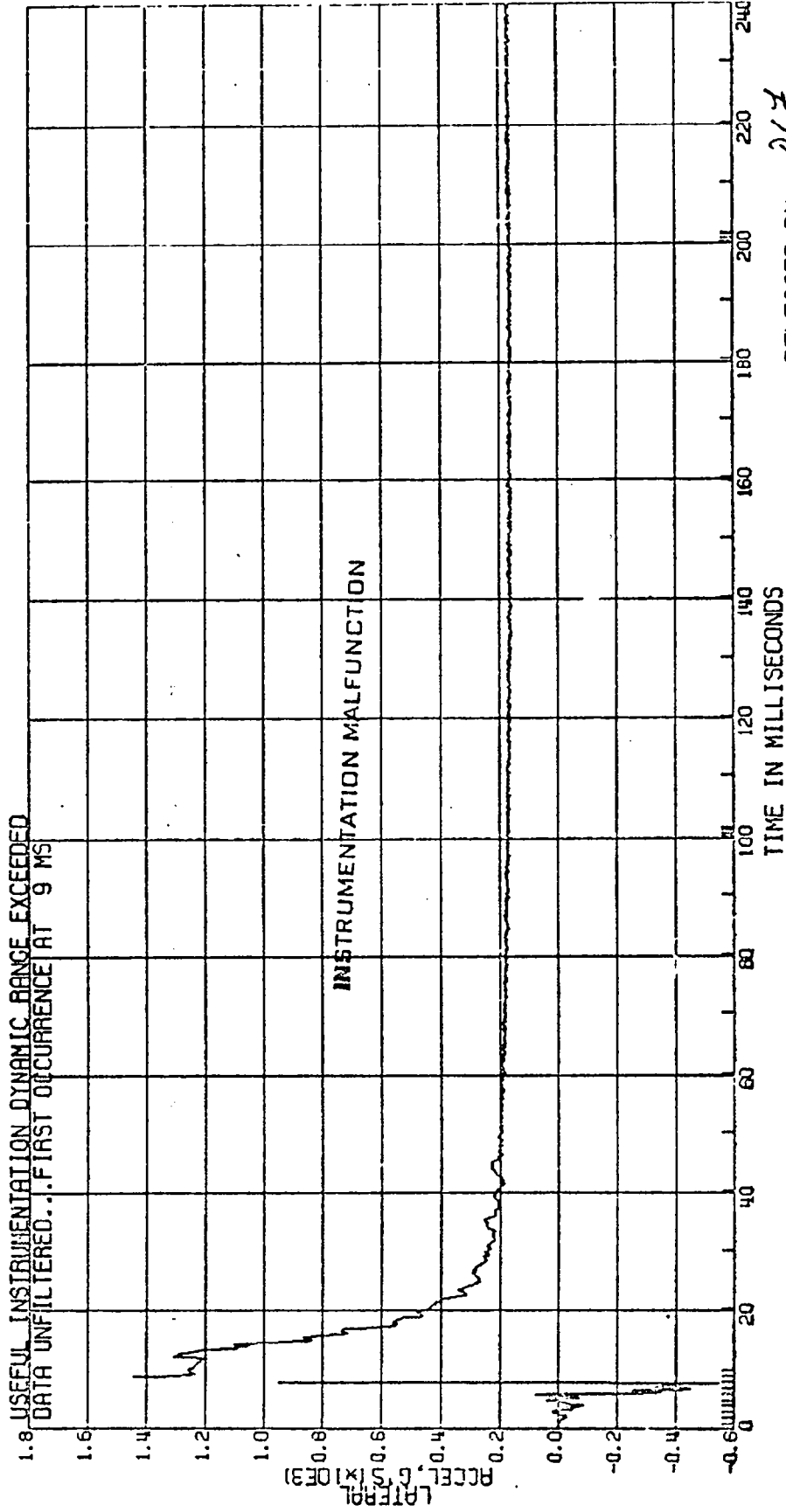
3865-075

FB-CFC (STRA) VEH. C0464 3JC77)

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

RT FRT DOOR (D) ACCEL.

TEST DATE: 04-C4-85



267

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41.5AM/7/7 FIGURE

MOVING DAMAGE TO FRONT VEHICLE

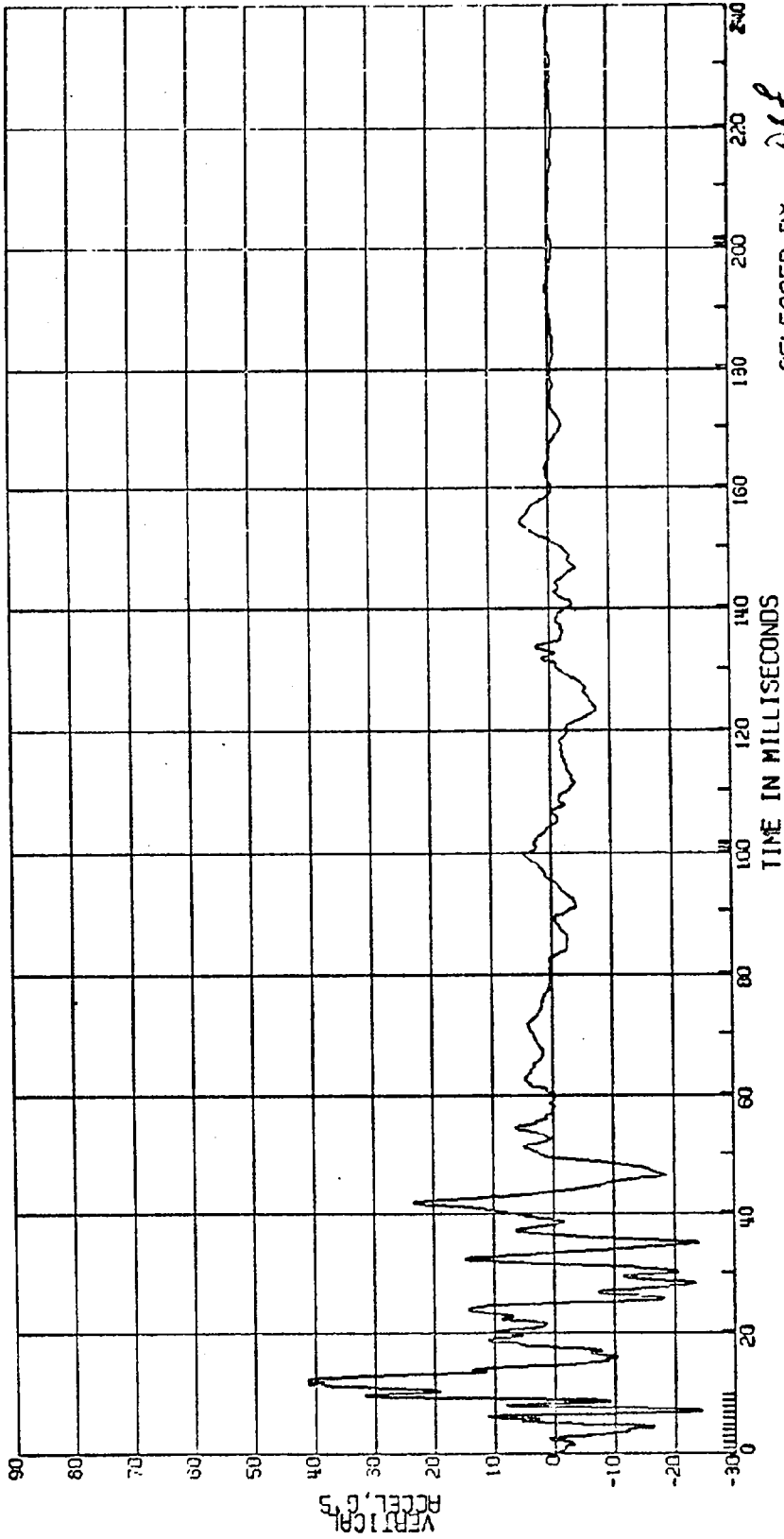
AT FAT DOOR (D) ACCEL.

3865-075

FB-CPC (STRUCK VEH. CC464 3JC77)

A-D DATA SAE CLASS 60

TEST DATE: 04-C4-85

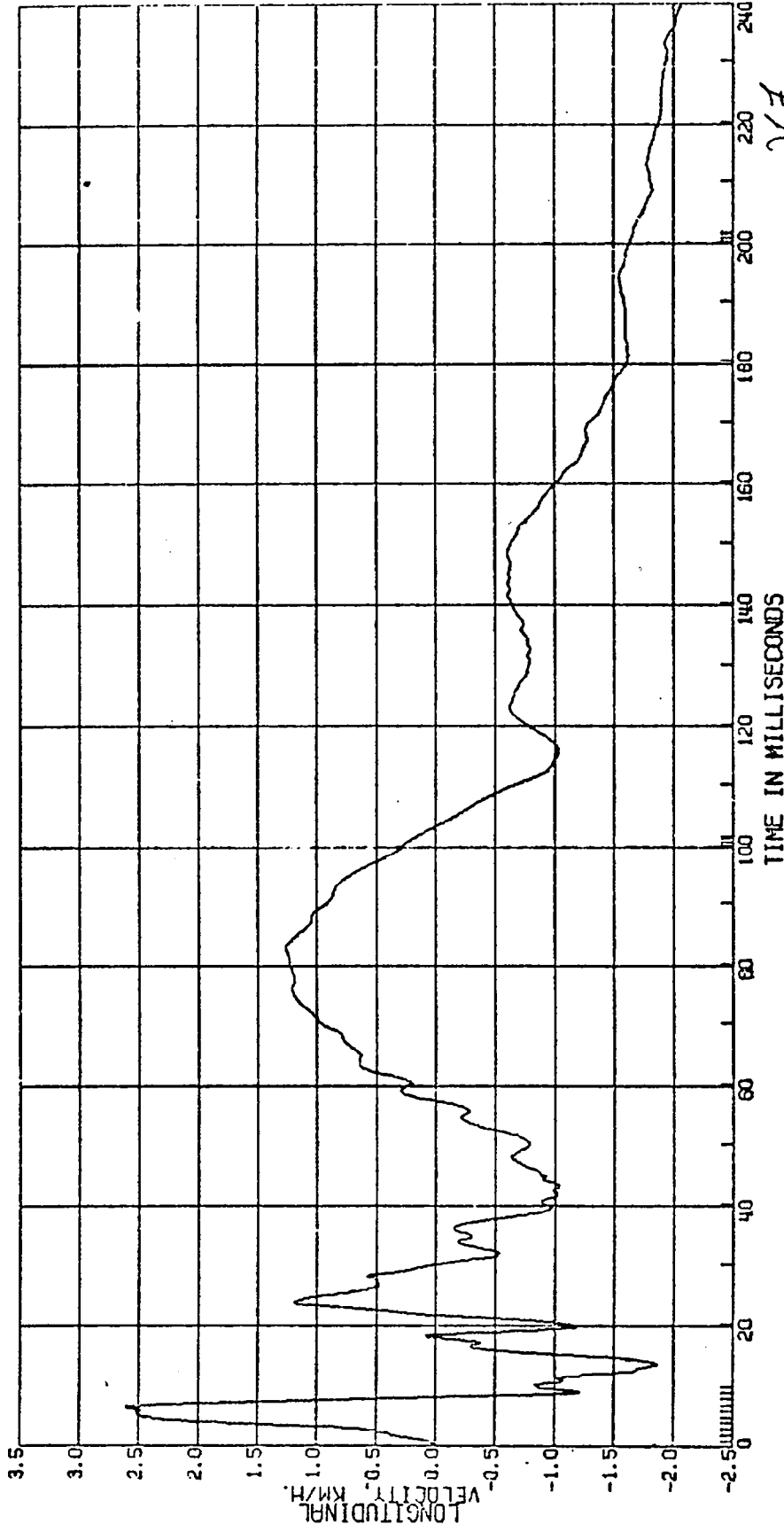


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FB-CPC (STRUCK VEH. CC464 3JC77)
A-D DATA SAE CLASS 180

COMPUTED RT FRT DOOR (A) VELOCITY
(1ST INTEGRAL ACCELERATION)

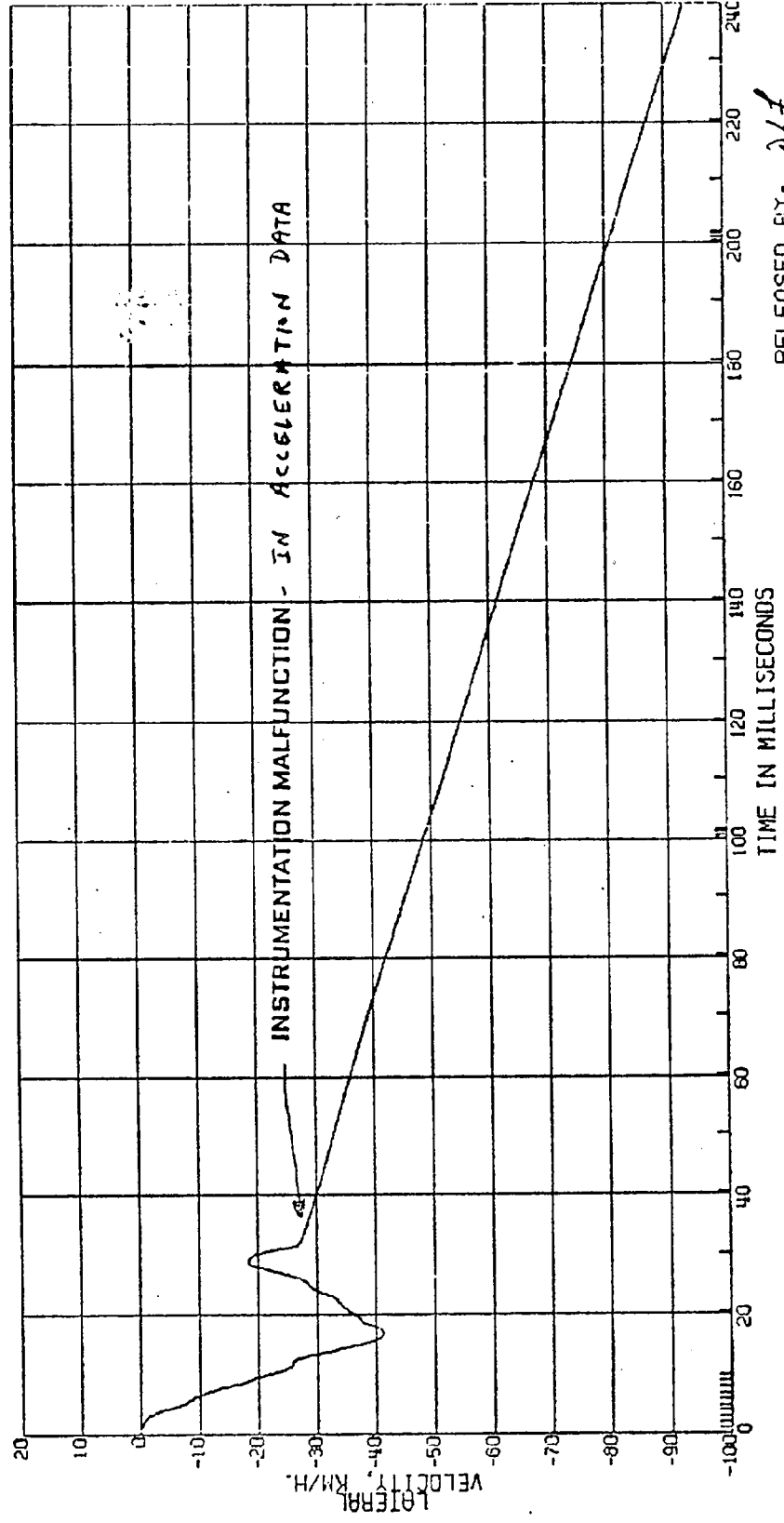
TEST DATE: 04-C4-85



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15 PROCESSED 8 APR 85 18:52

INSTRUMENTATION MALFUNCTION - IN ACCELERATION DATA

3865-075
FB-CPC (STRAUCK VEH. CC464 3JC77)
A-D DFTP SAE CLASS 160
COMPUTED RT-FRT DOOR (A) VELOCITY
(1ST INTEGRAL ACCELERATION)
TEST DATE: 04-C4-85



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3865-U/5

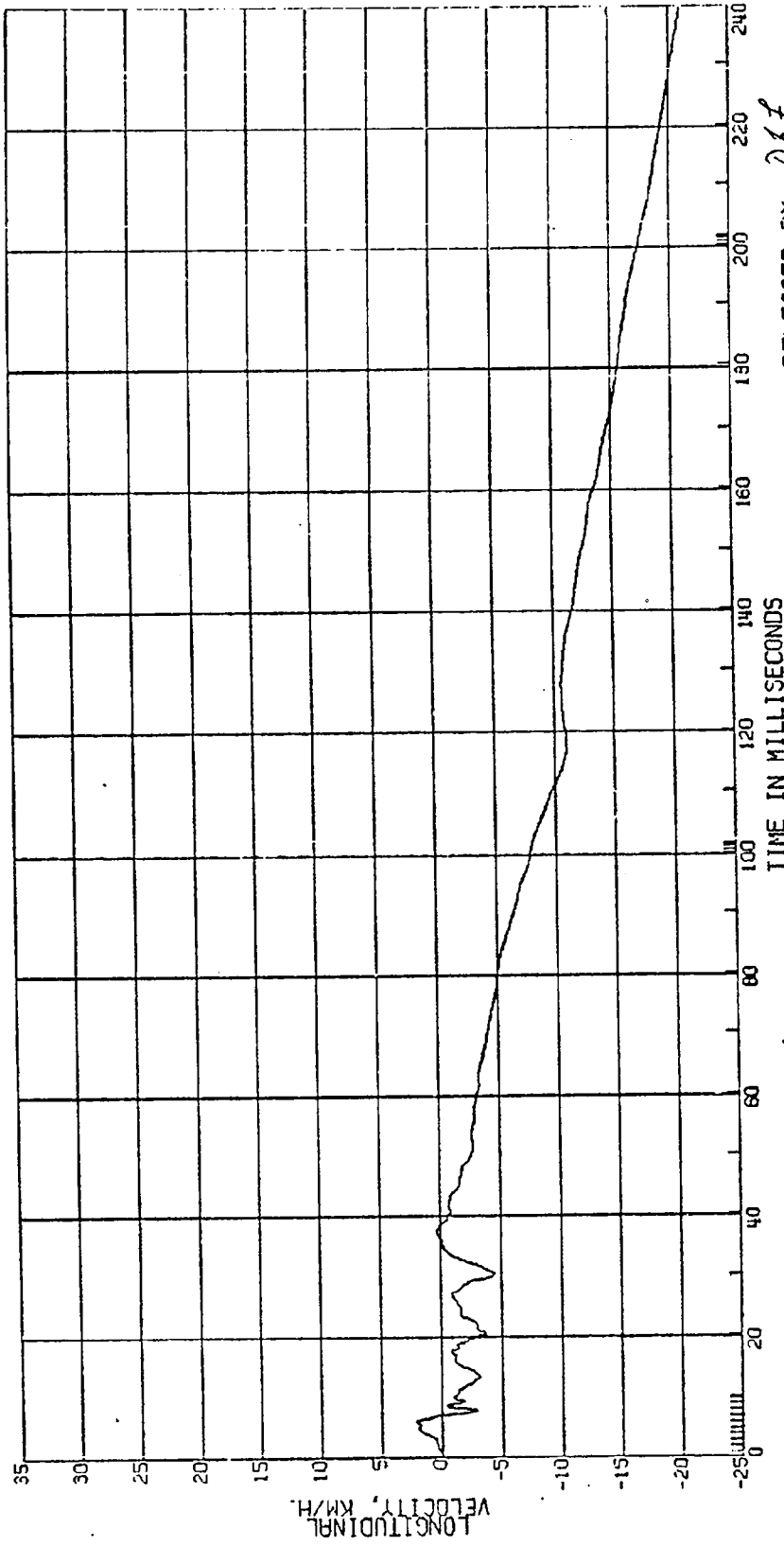
FB-CPC (STRUCK VEH. CC464 3JC77)

A-D DATA SAE CLASS 180

COMPUTED RT FRT DOOR (B) VELOCITY

(1ST INTEGRAL ACCELERATION)

TEST DATE: 04-C4-85



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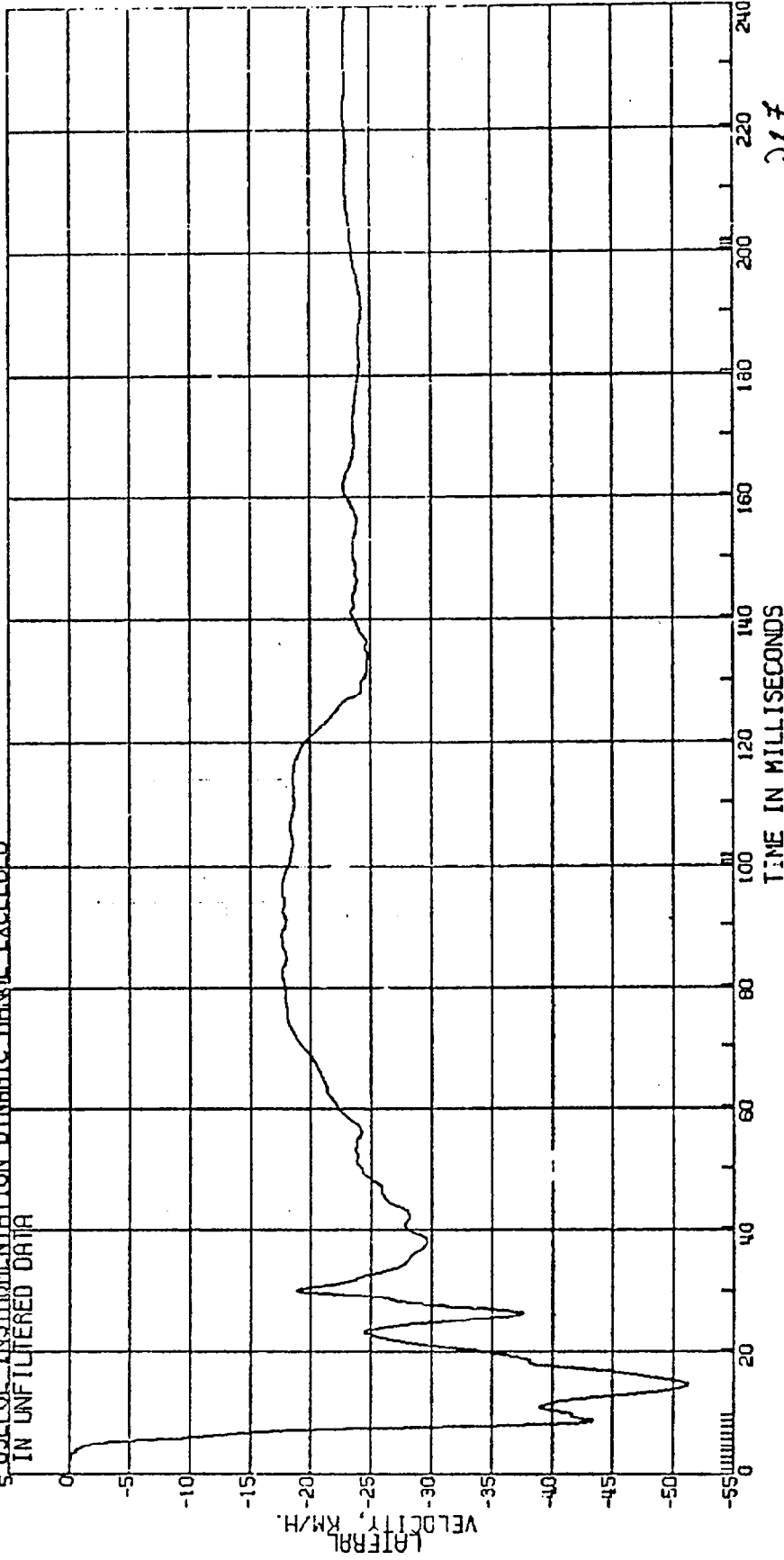
FS-CPC (STEADY VEH. CQ464 3JC77)
A-D DATA SAE CLASS 180

COMPUTED IN THE DOWNWARD VELOCITY

TEST DATE: 04-04-85

(1ST INTEGRAL ACCELERATION)

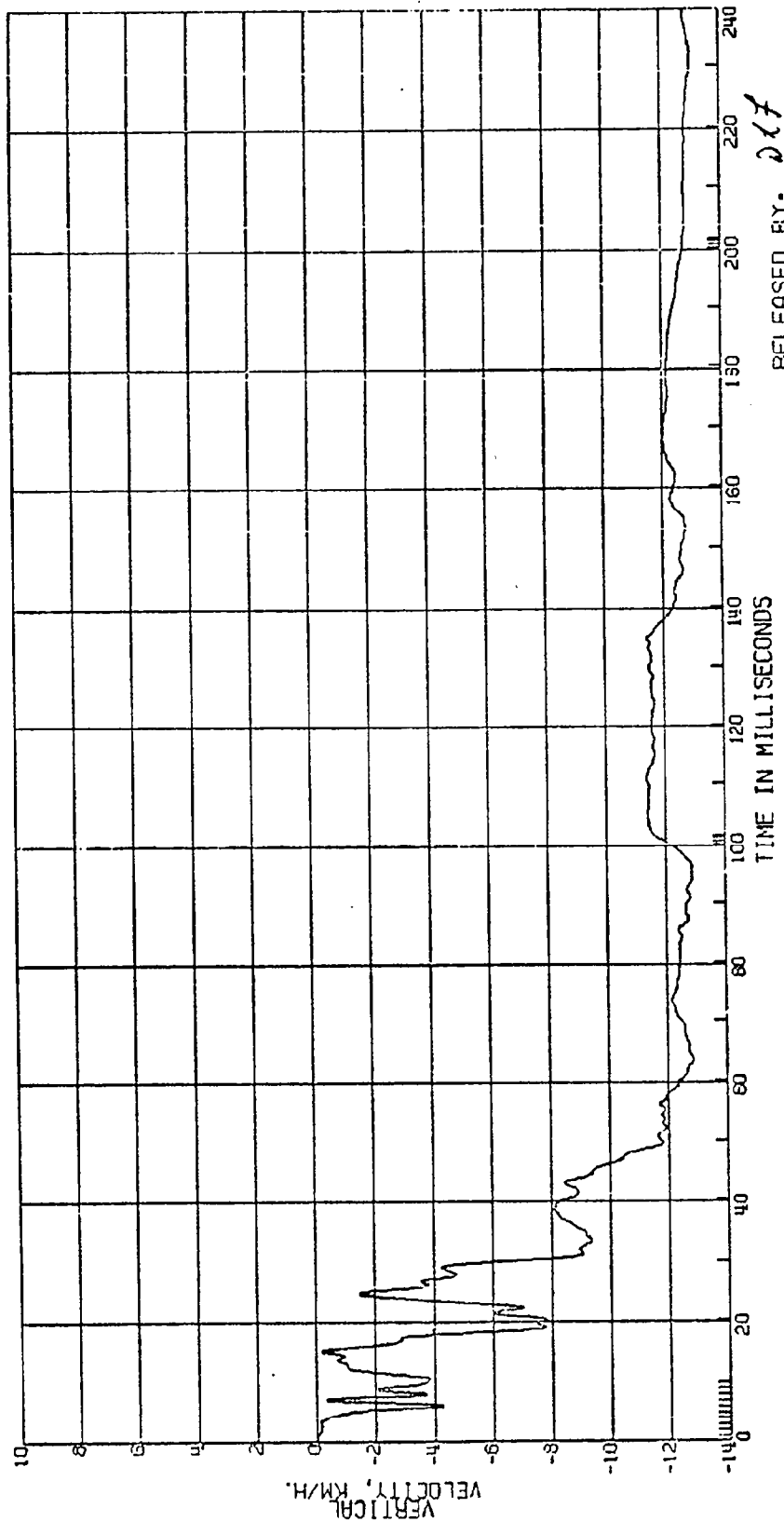
USEFUL INSTRUMENTATION DYNAMIC RANGE EXCEEDED
IN UNFILTERED DATA



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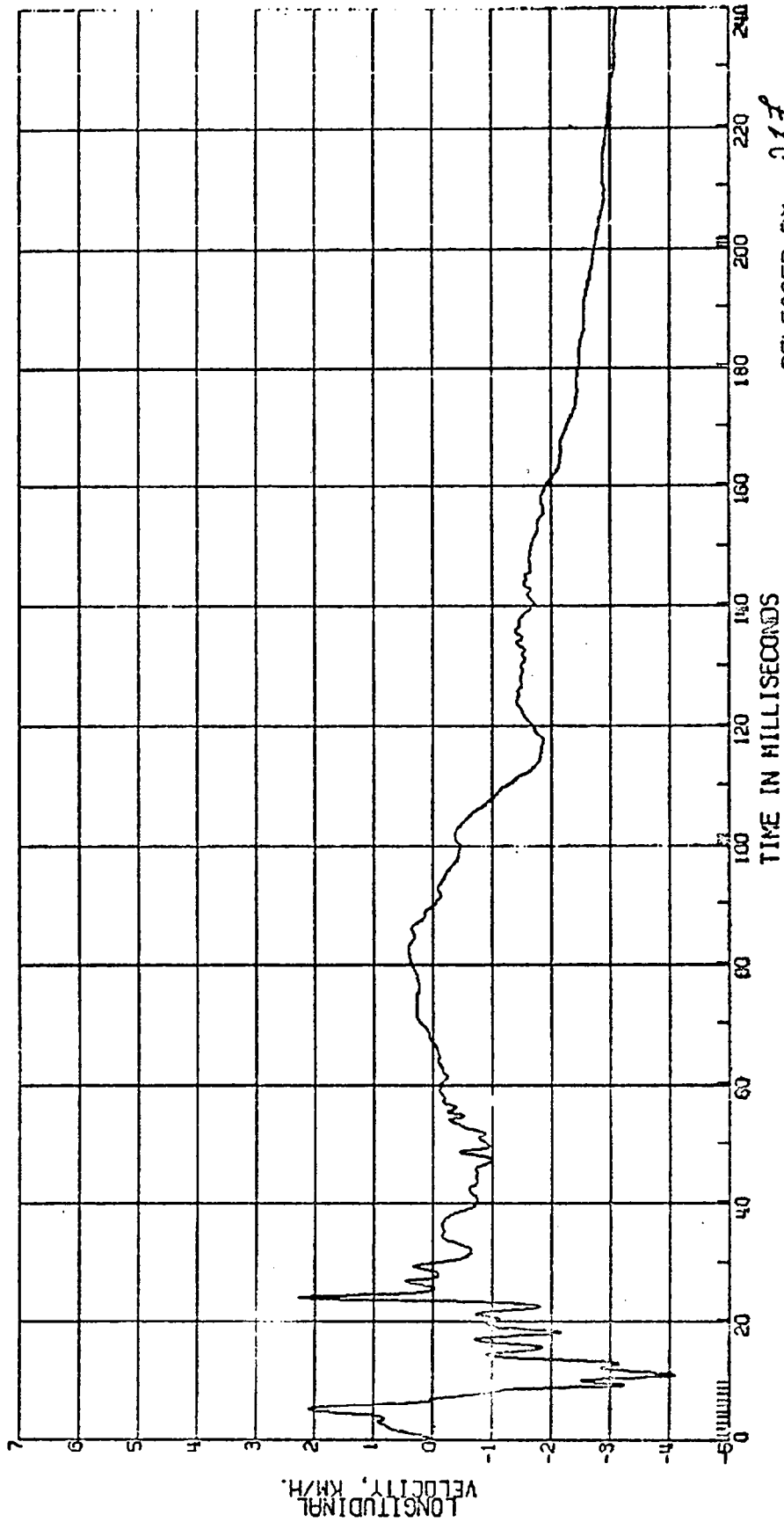
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C6185B RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 18
3865-075
FB-CPC (STRAUCK VEH. CC464 3JC77)
A-D DATA SAE CLASS 180
COMPUTED RT FRT DOOR (B) VELOCITY
(1ST INTEGRAL ACCELERATION)
TEST DATE: 04-C4-85



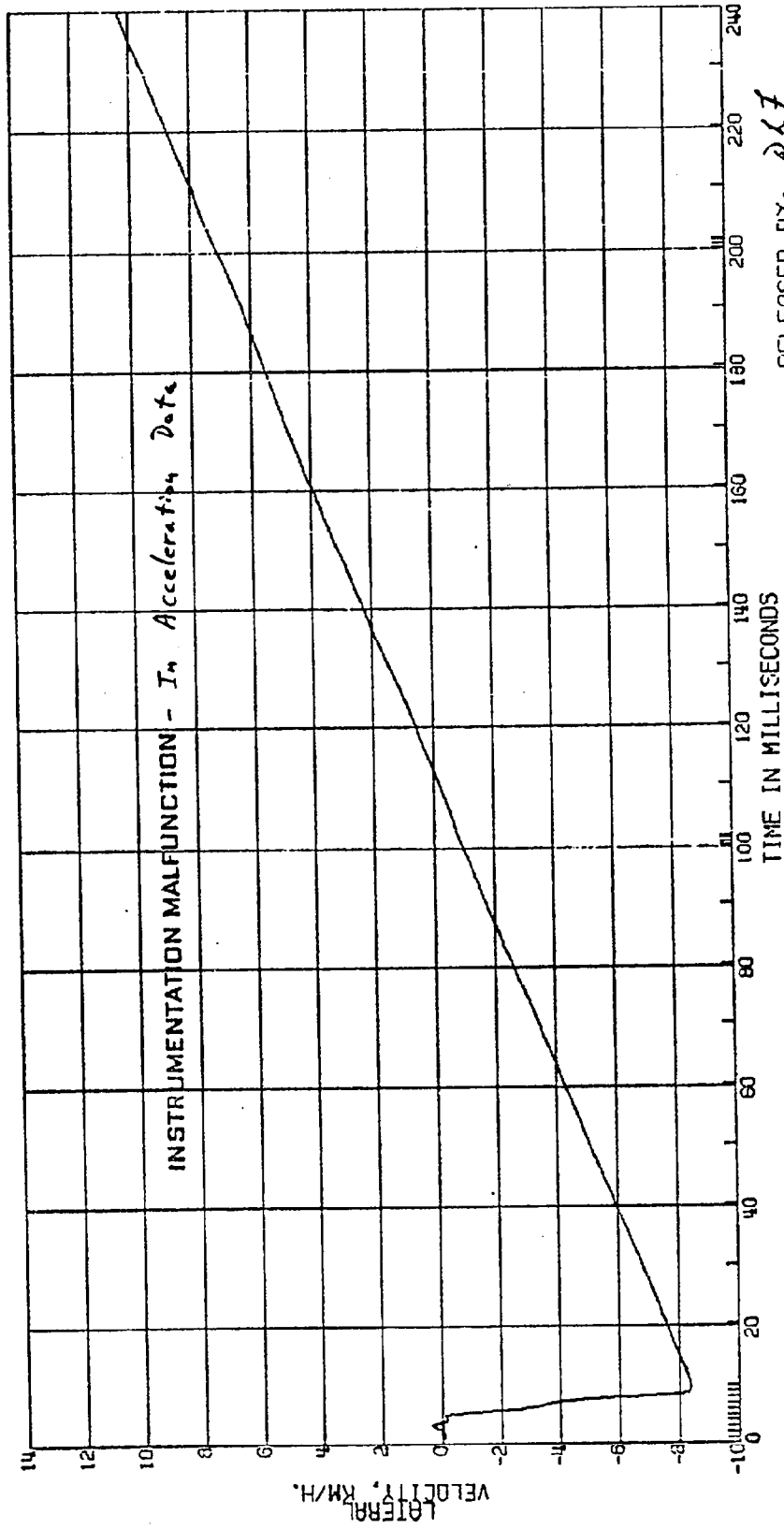
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CG185B RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE /9
3865-075
FB-CYC (STRUCK VEH. CC464 3JC77) COMPUTED RT FRT DOOR (C) VELOCITY TEST DATE: 04-C4-85
A-D DATA SAE CLASS 180 (1ST INTEGRAL ACCELERATION)



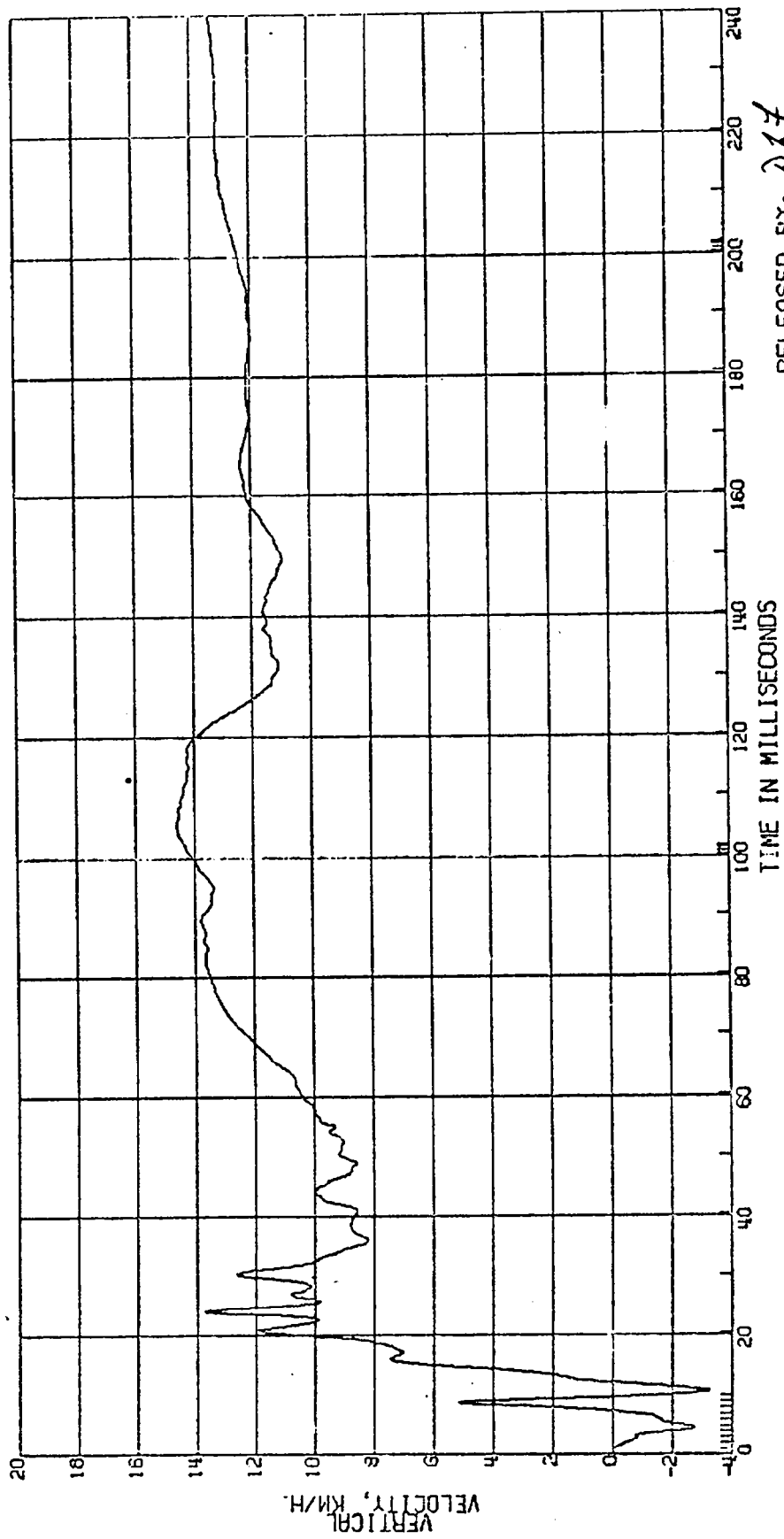
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C61858 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 20
3865-075
FB-CPC (STRUCK VEH. CC464 3JC77) COMPUTED RT FRT DOOR (C) VELOCITY TEST DATE: 04-C4-85
A-D DATA SAE CLASS 180 (1ST INTEGRAL ACCELERATION)



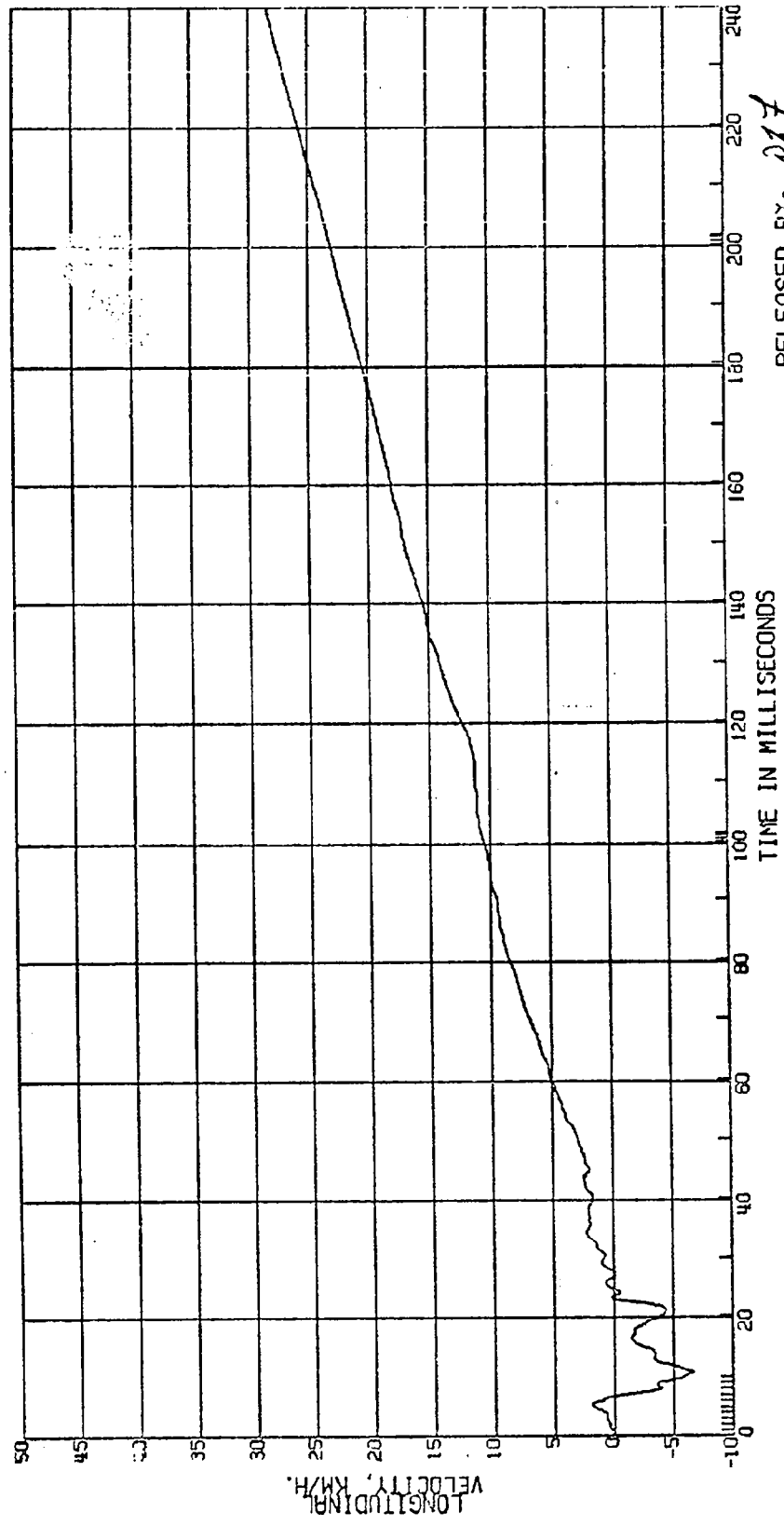
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C6185B RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 2/
3865-075
FB-CPC (STUCK VEH.CC464 3JC77) COMPUTED RT FRT DOOR (C) VELOCITY TEST DATE:04-C4-85
A-D DATA SAE CLASS 180 (1ST INTEGRAL ACCELERATION)



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39 PROCESSED 8 APR 85 19457

C61858 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3 KM/H FIGURE 22
3865-075
FB-CPC (STRUCK VEH. CC464 3JC77) TEST DATE: 04-C4-85
A-C DATA SAE CLASS 180 (1ST INTEGRAL ACCELERATION)

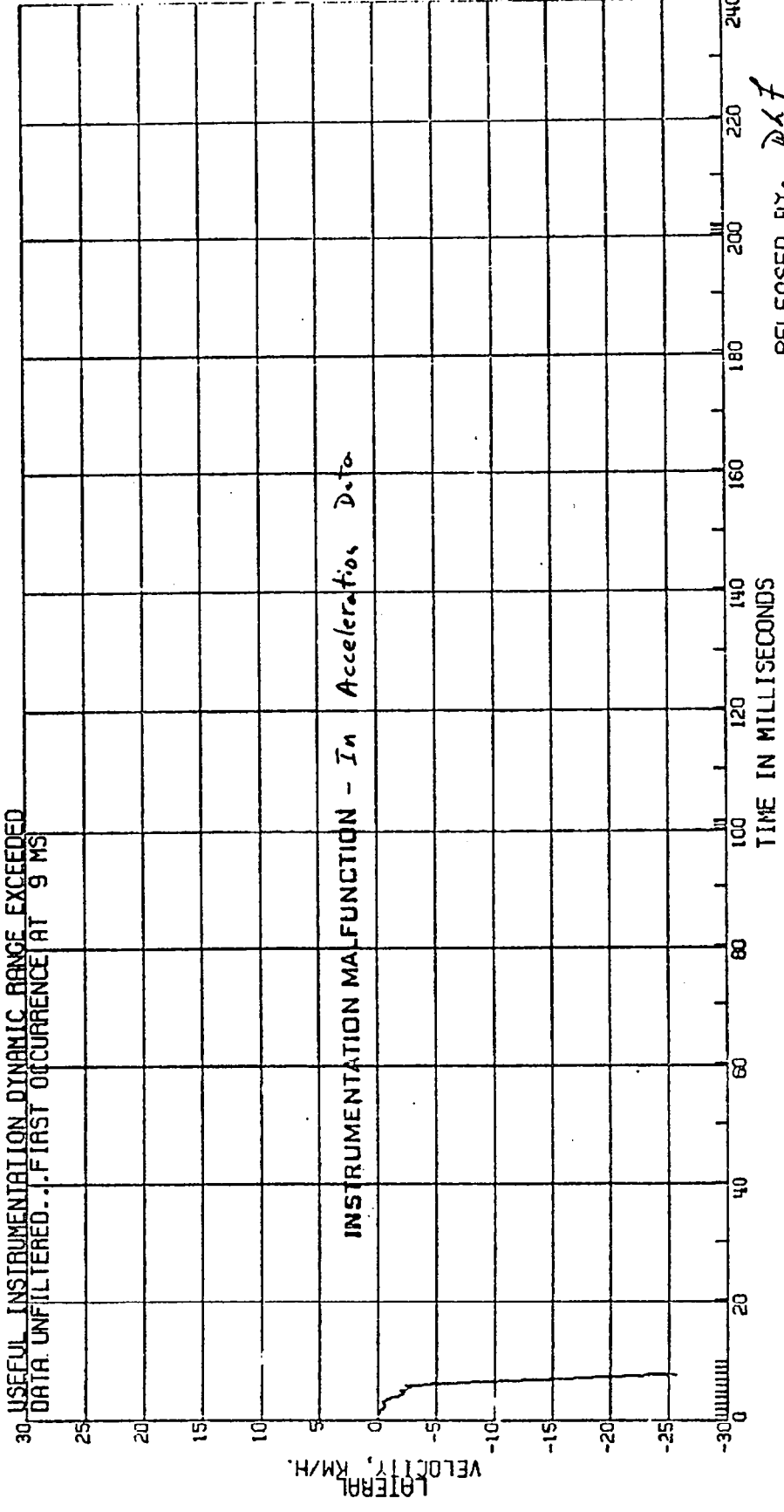


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3865-075
 FB-CFC (STUCK VEH. CC464 3JC77)
 A-D DATA SRE CLASS 180
 (NOT USED IF NOTED BELOW)

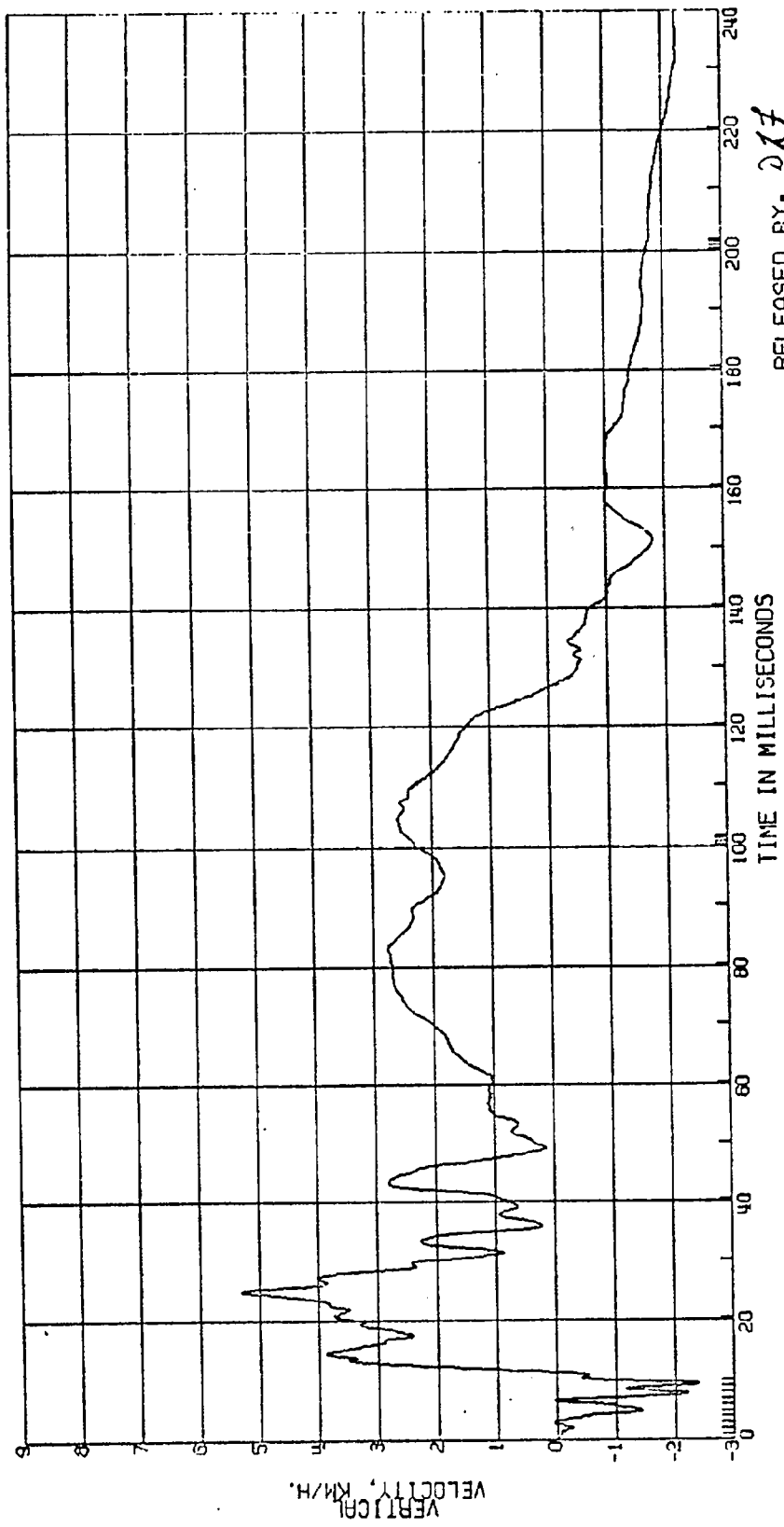
MOVING DAMAGED TO PARKED VEHICLE 41.0AM/0 FIGURE 42

COMPUTED RT FRT DOOR (D) VELOCITY
 (1ST INTEGRAL ACCELERATION)
 TEST DATE: 04-C4-85



RELEASED BY: DLF
 45 PROCESSED 8 AP 85 19:58

CE: 158 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 24
3333-075
F6-CPC (STRUCK VEH. CC464 3JC77)
A-C DATA SAE CLASS 180 TEST DATE: 04-C4-85
COMPUTED RT FRT DOOR (D) VELOCITY
(1ST INTEGRAL ACCELERATION)



RELEASED BY: *DAF*
48 PROCESSED 8 APR 85 19:58

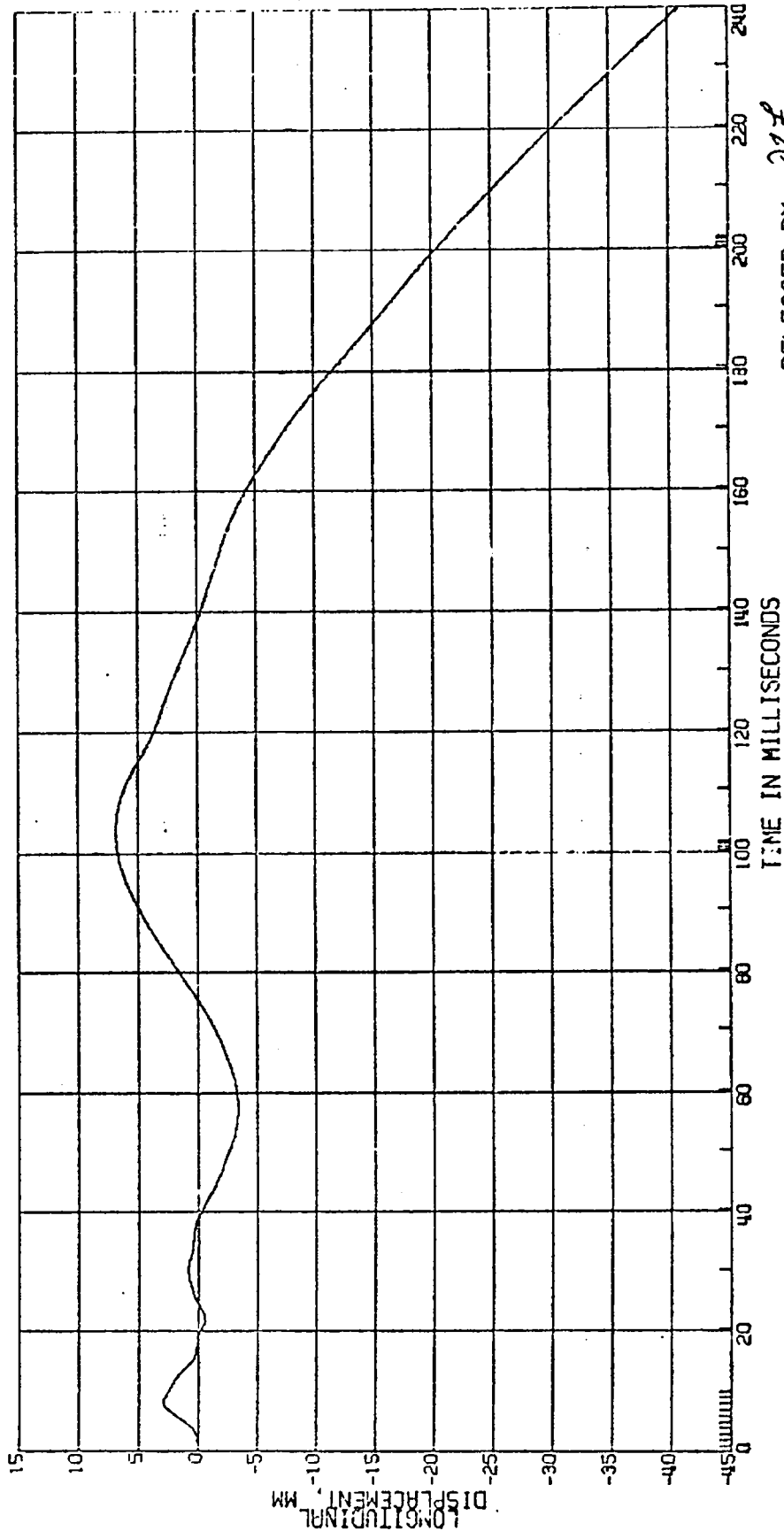
FB-CFC (STUCK VEH. CC464 3JC77)

COMPUTED RT FRT DOOR (A) DISPLACEMENT

TEST DATE: 04-C4-85

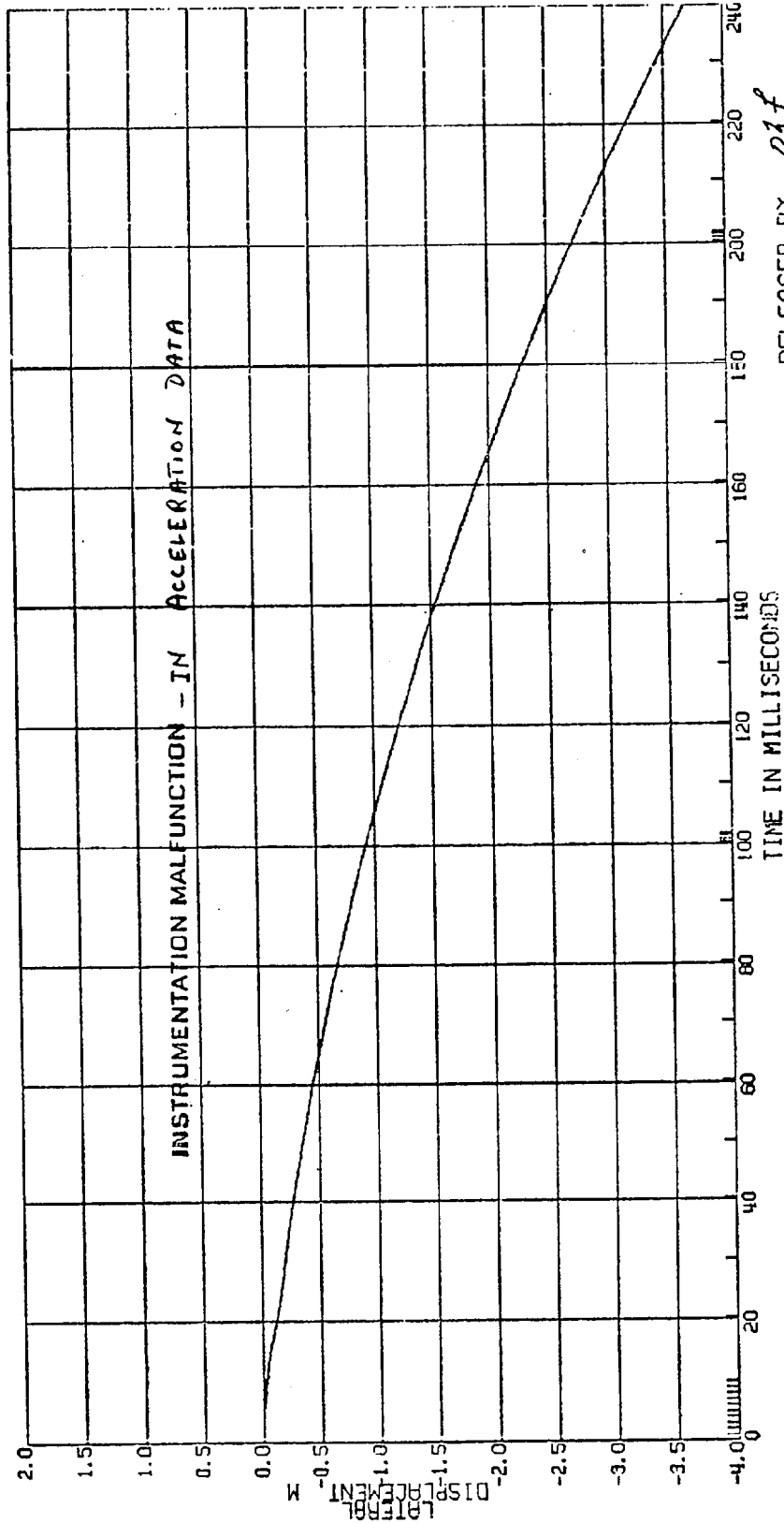
A-C DATA SAE CLASS 180

(2ND INTEGRAL ACCELERATION)



RELEASED BY: *DLF*
16 PROCESSED 8 AP 85 18:52

C61858 RIGHT SIDE IMPACT
 MOVING BARRIER TO PARKED VEHICLE · 41.3KM/H FIGURE 26
 3865-075
 FB-CPC (STRUCK VEH. CC464 3JC77)
 A-D DATA SAE CLASS 180
 COMPUTED RT FRT DOOR (A) DISPLACEMENT
 TEST DATE: 04-C4-85
 (2ND INTEGRAL ACCELERATION)



RELEASED BY: *DAF*
 19 PROCESSED 8 APR 85 19:53

3805-U/5

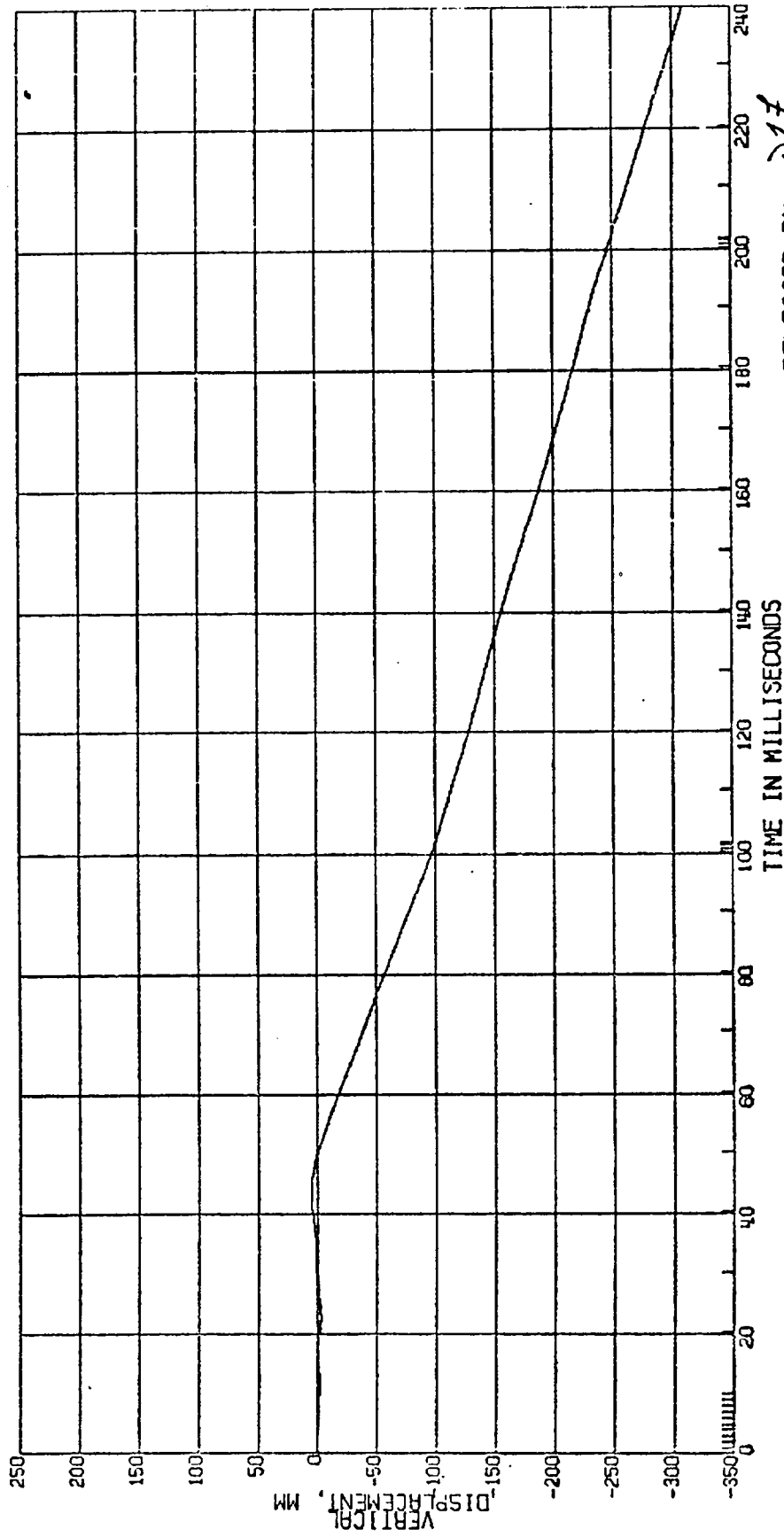
FB-CPC (STFUCK VEH. CC464 3JC77)

A-D DATA SAE CLASS 180

COMPUTED RT FRT DOOR (A) DISPLACEMENT

TEST DATE: 04-C4-85

(2ND INTEGRAL ACCELERATION)



RELEASED BY: DJF
22 PROCESSED 8 APR 85 19:59

3865-075

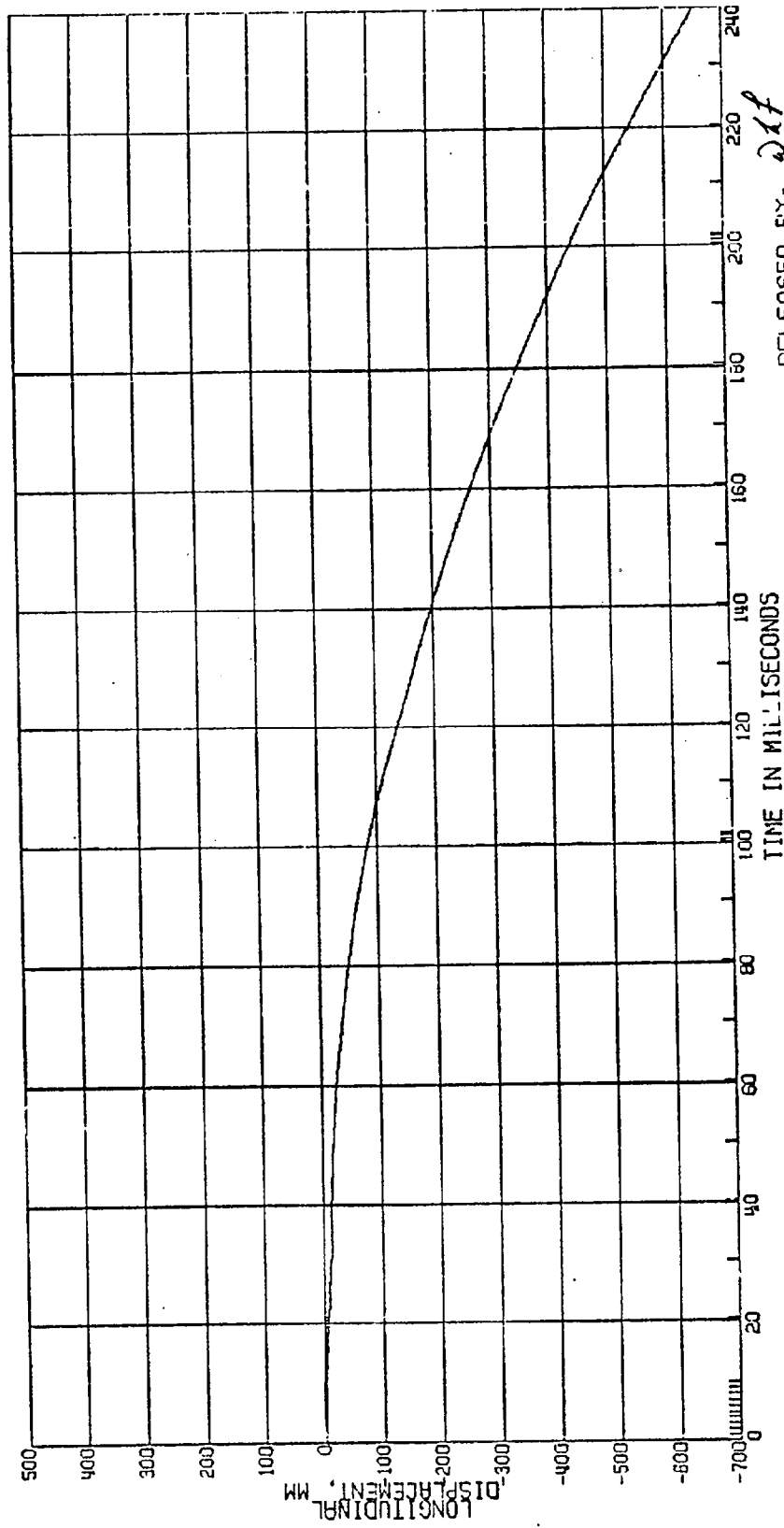
FB-CPC (STRUCK VEH. CC464 3JC77)

A-D DATA SAE CLASS 180

COMPUTED RT FRT DOOR (B) DISPLACEMENT

(2ND INTEGRAL ACCELERATION)

TEST DATE: 04-C4-85



RELEASED BY: *dat*
25 PROCESSED 8 APR 85 19:55

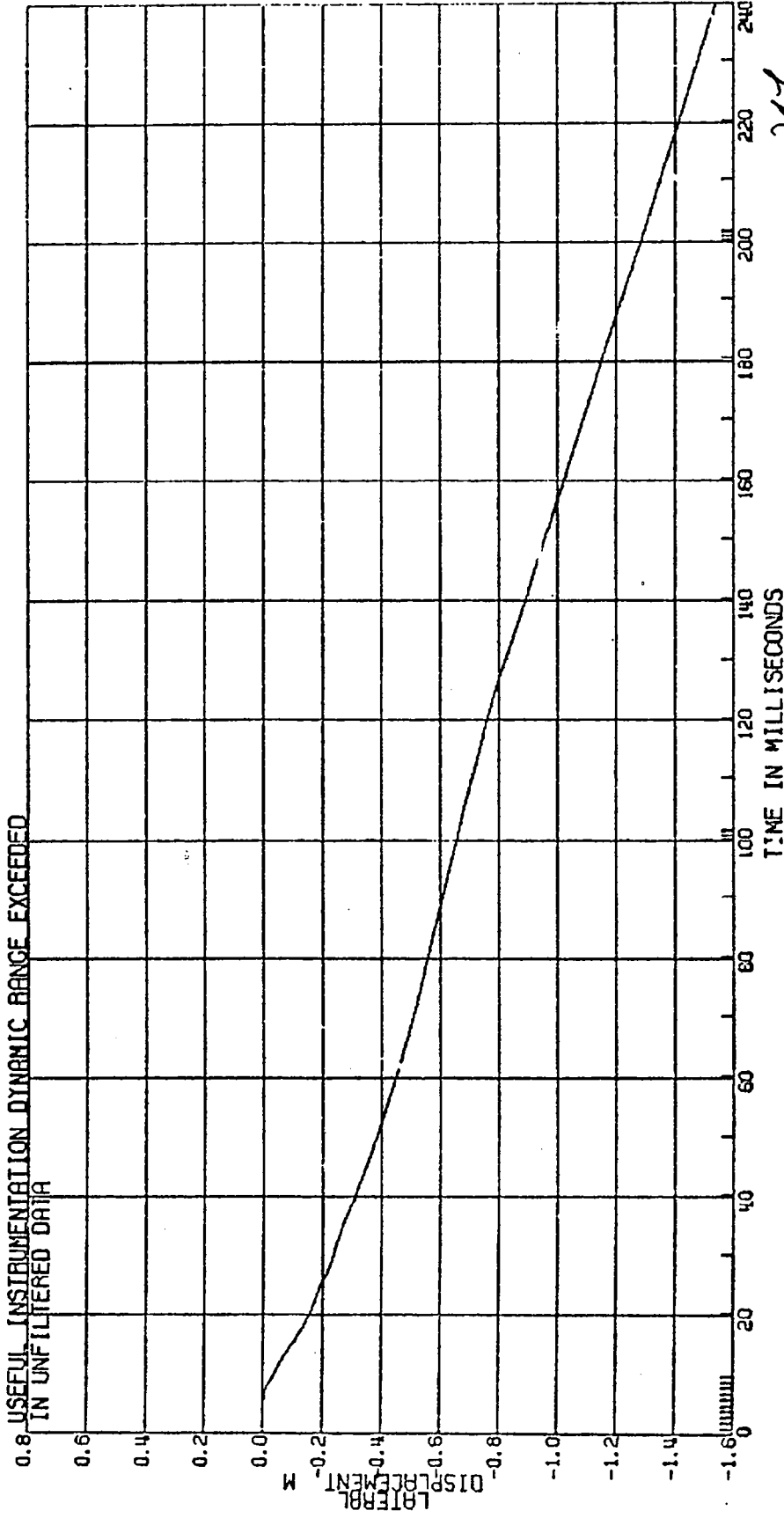
FB-CFC (STRUCK VEH. CC464 3JC77)

COMPUTED RT FRT DOOR (B) DISPLACEMENT

TEST DATE: 04-C4-85

A-B DATA SAE CLASS 180

(2ND INTEGRAL ACCELERATION)

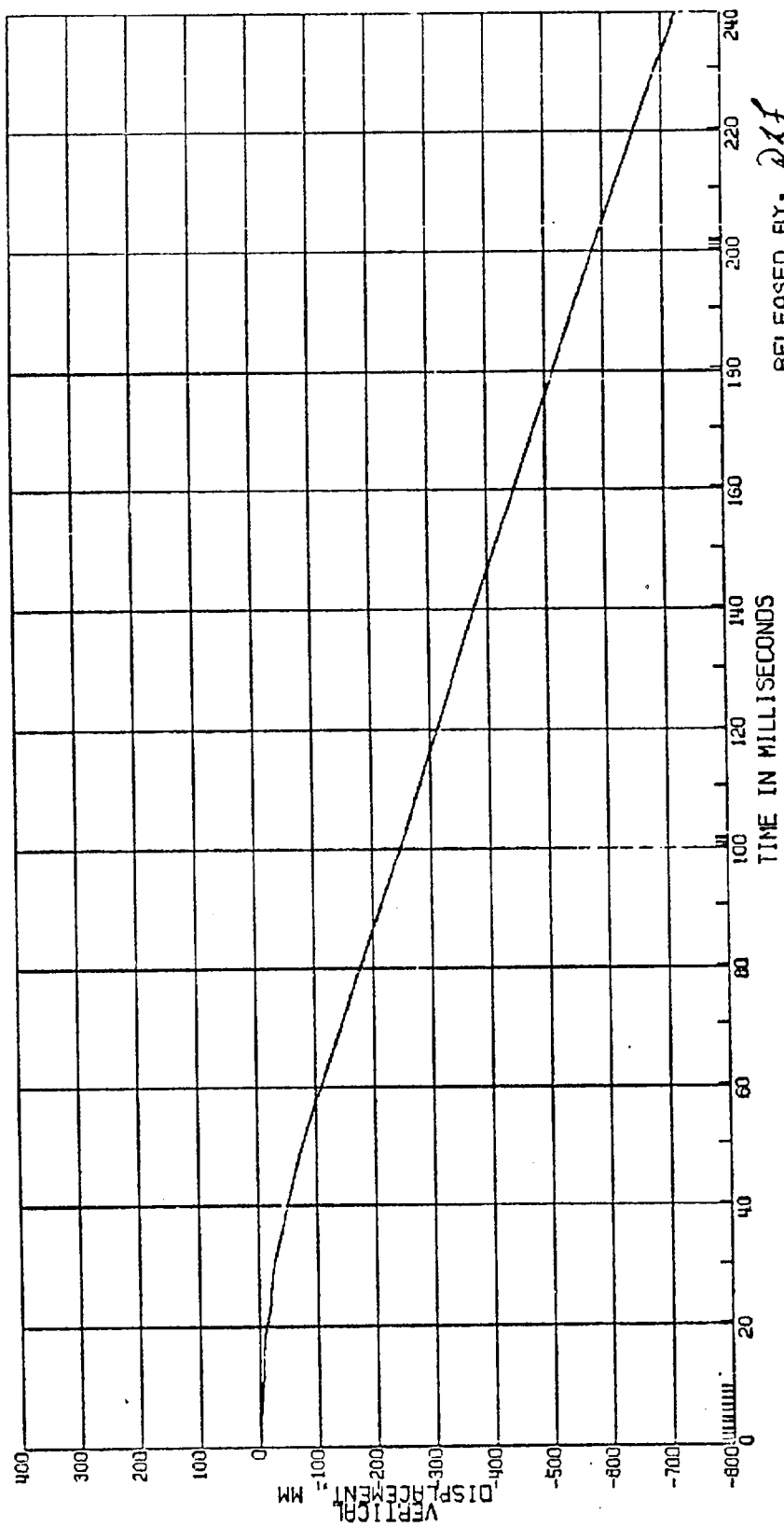


RELEASED BY: *217*

28 PROCESSED 8 APR 85 1845

FB-CPC (STRUCK VEH. CC464 3JC77) COMPLETED BY: (B) DISPLACEMENT
A-D DATA SAE CLASS 180 (2ND INTEGRAL ACCELERATION)

TEST DATE: 04-C4-85



RELEASED BY: *DLF*
31 PROCESSED 3 APR 85 19:55

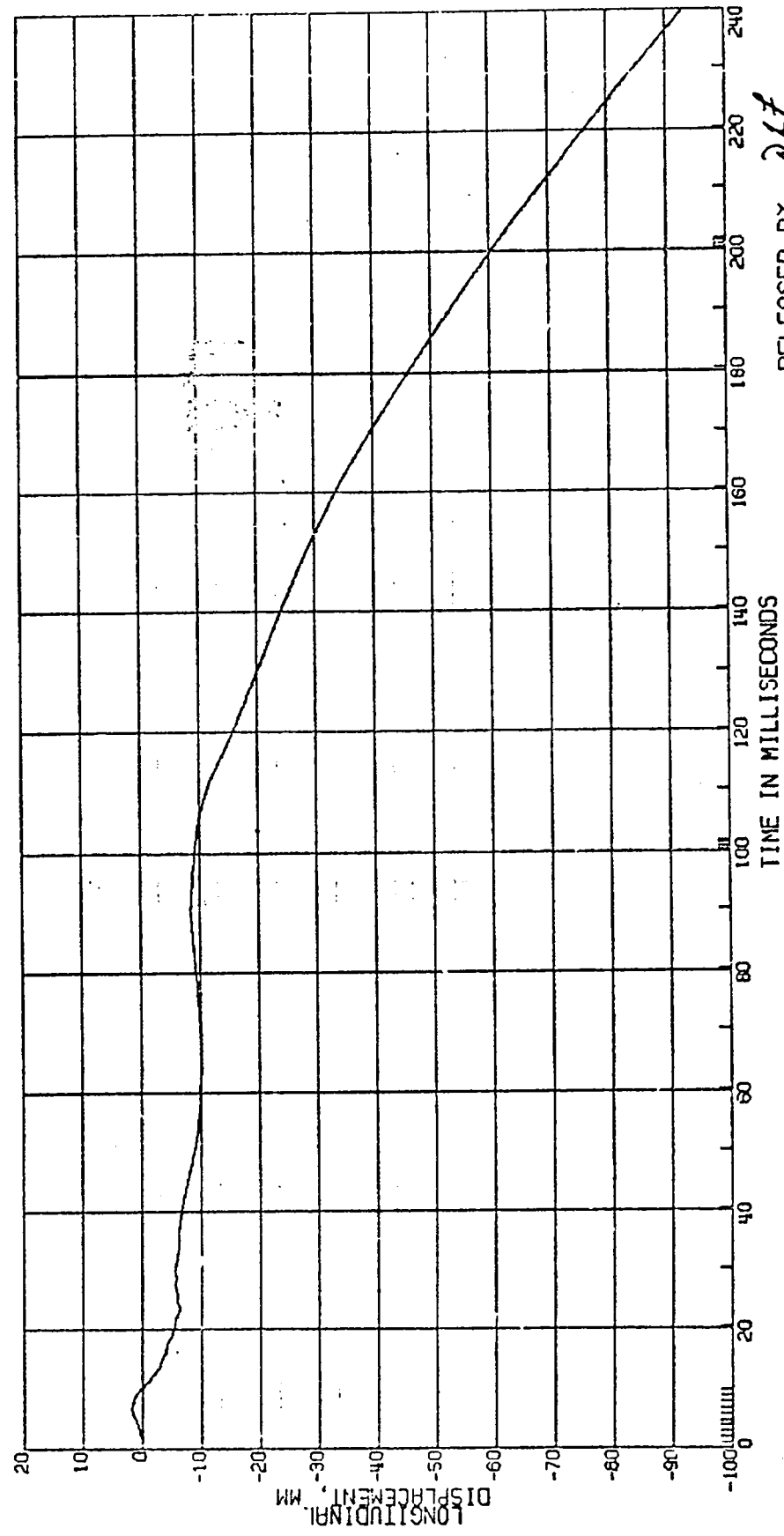
COMPUTED RT FRT DOOR (C) DISPLACEMENT

TEST DATE: 04-C4-85

FB-CPC (STRUCK VEH. CC464 3JC77)

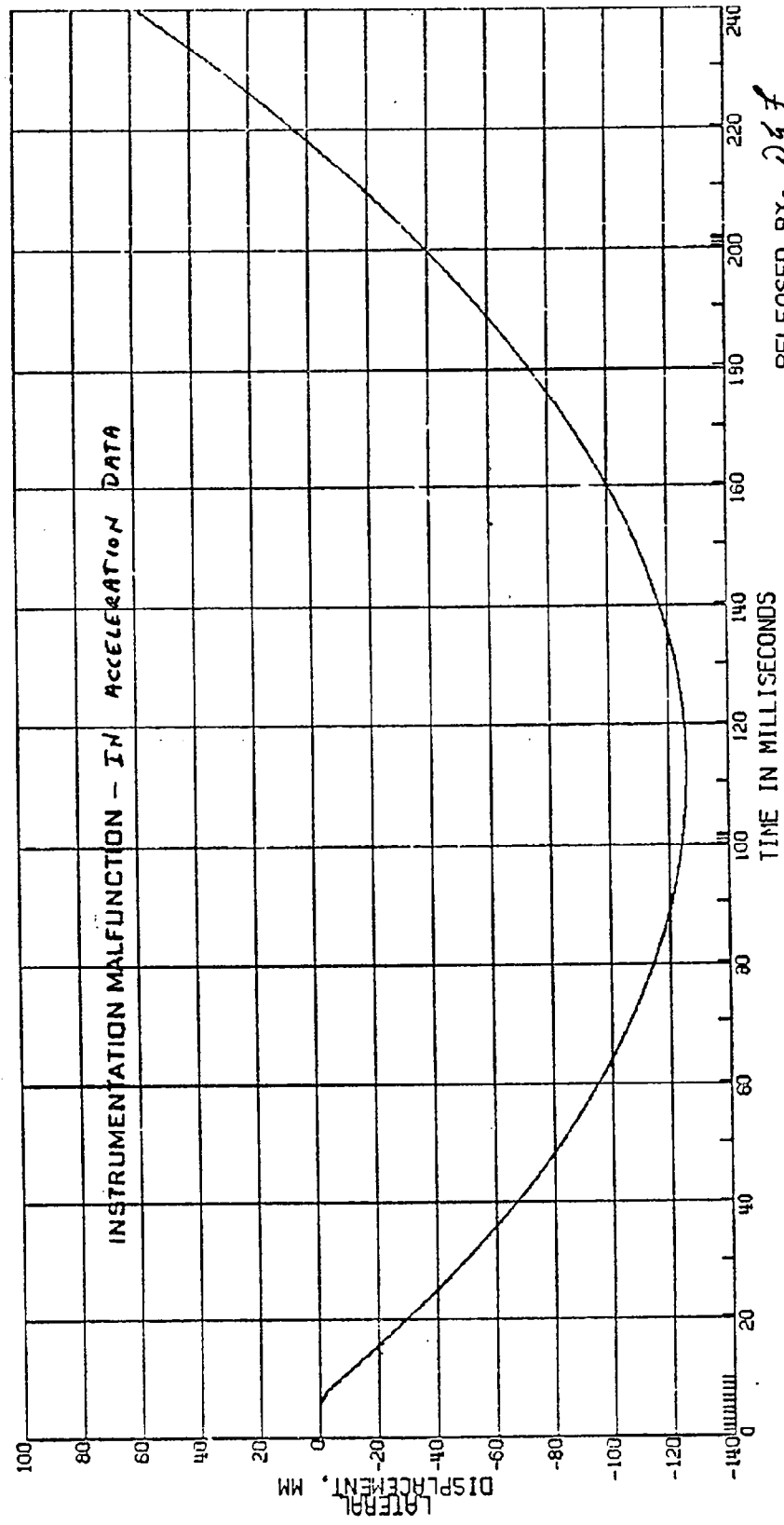
A-D DATA SAE CLASS 180

(2ND INTEGRAL ACCELERATION)



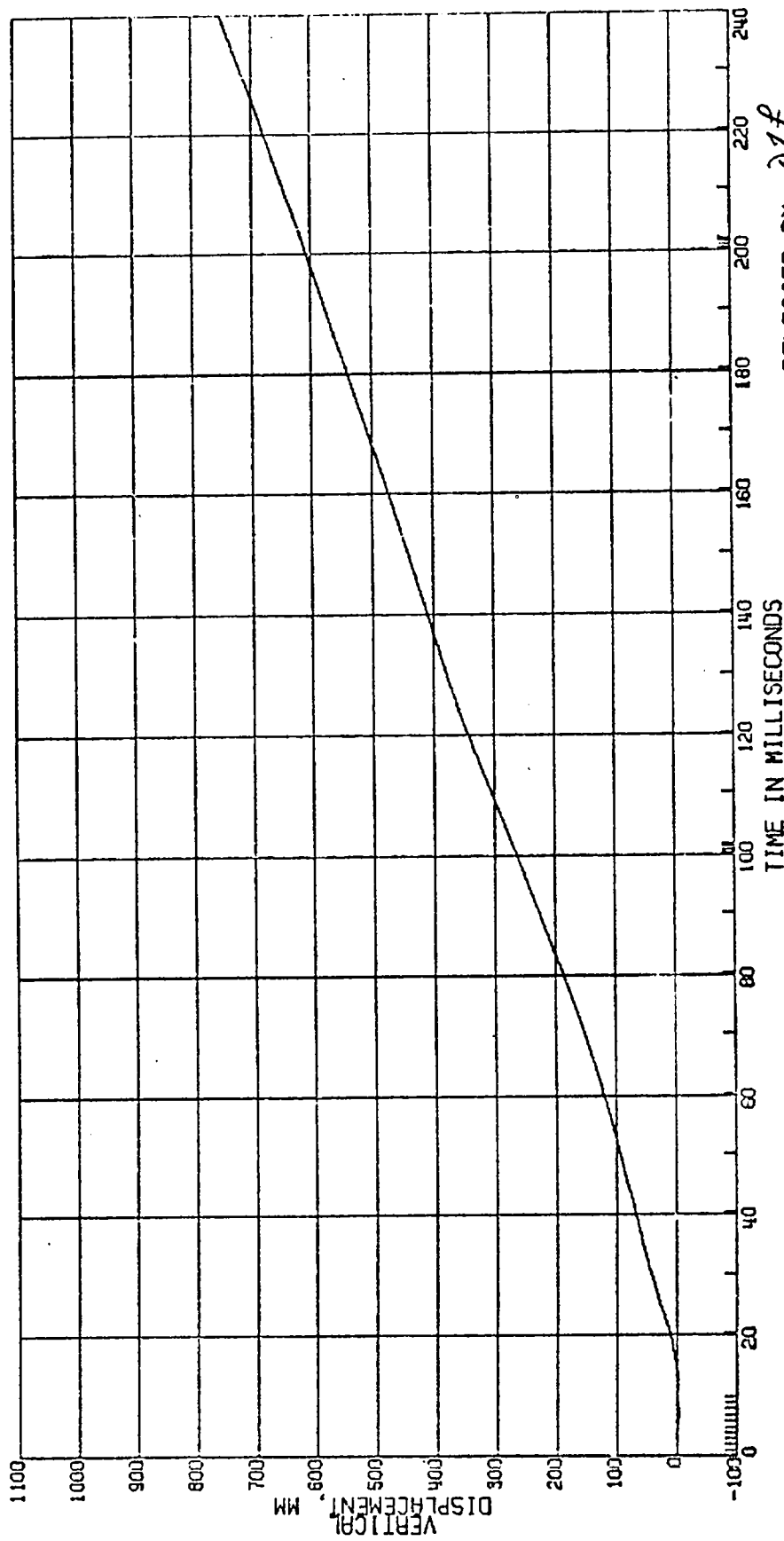
RELEASED BY: *DLF*
34 PROCESSED 8 APR 85 18:56

C61358 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 32-
 3865-075 COMPUTED AT FRT DOOR (C) DISPLACEMENT TEST DATE: 04-C4-85
 FB-CPC (STRUCK VEH. CC464 3JC77)
 A-0 DATA SAE CLASS 180
 (2ND INTEGRAL ACCELERATION)



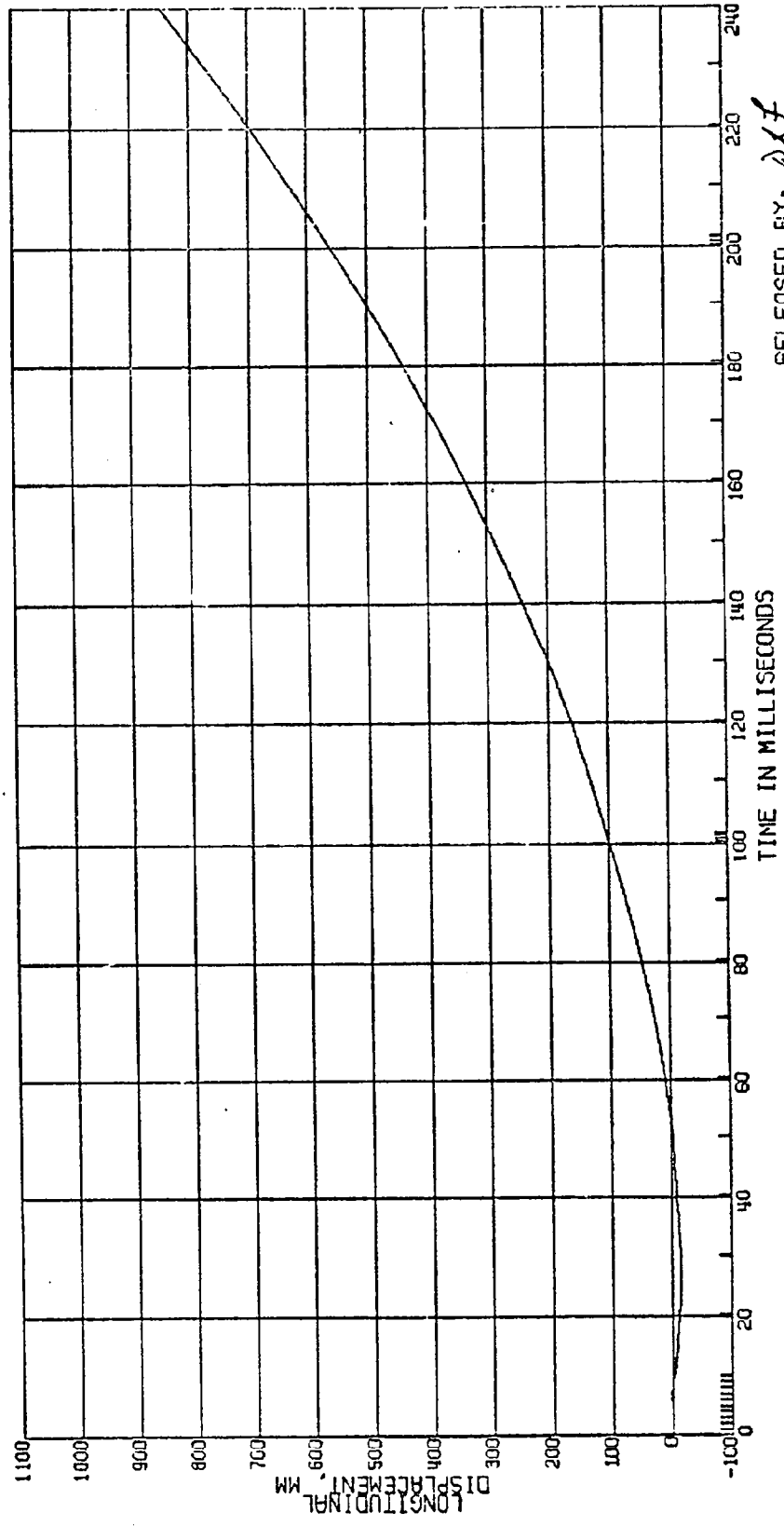
RELEASED BY: *DJF*
 37 PROCESSED 8 APR 85 19:56

C61858 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3 KM/H FIGURE 33
 3865-075
 FB-CPC (STUCK VEH. CC464 3JC77) COMPUTED RT FRT DOOR (C) DISPLACEMENT TEST DATE: 04-C4-85
 A-D DATA SAE CLASS 180 (2ND INTEGRAL ACCELERATION)



RELEASED BY: *21f*
 40 PROCESSED 8 APR 85 18:57

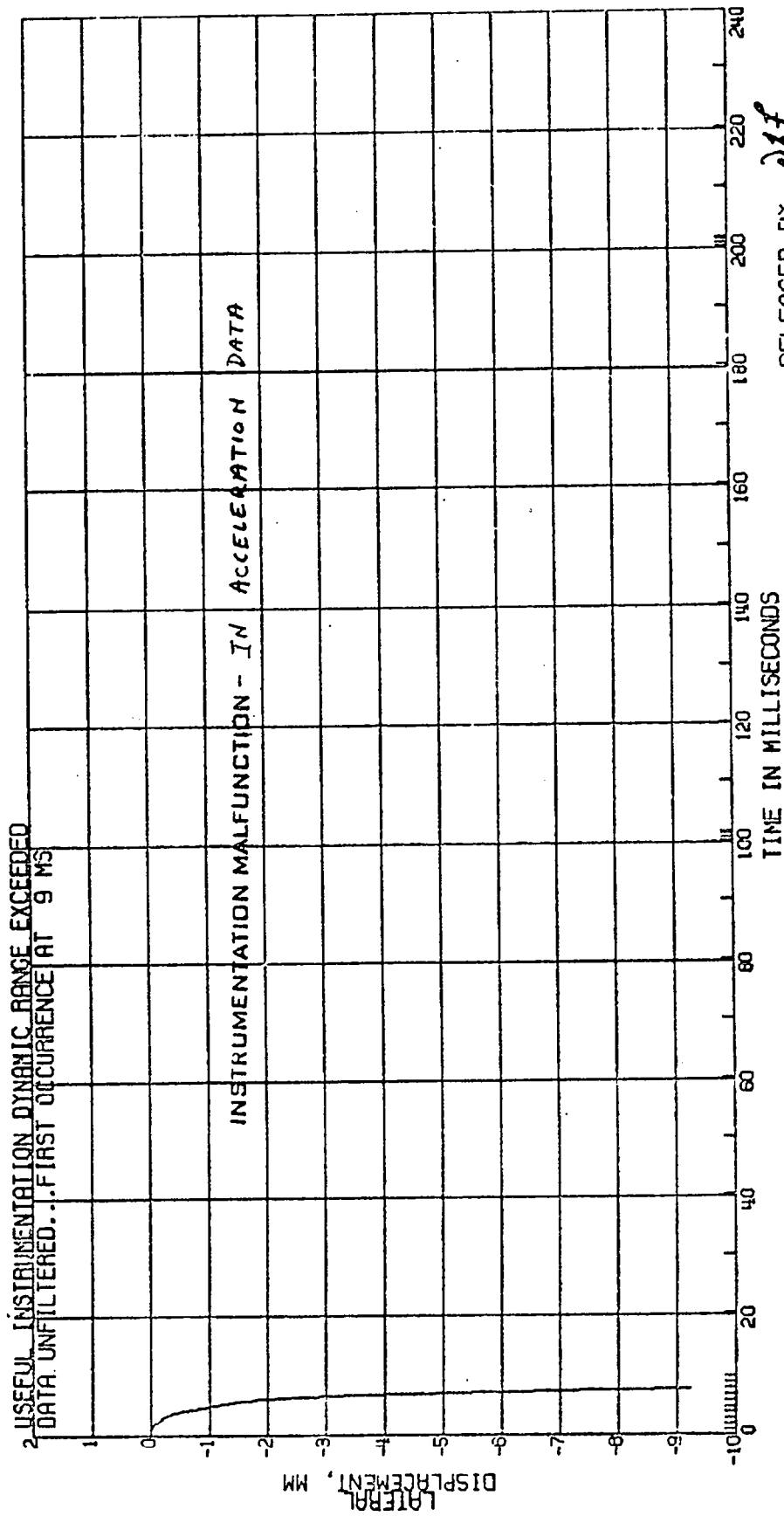
CG1858 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 34
3865-075 FB-CPC (STRUCK VEH.CC464 3JC77) COMPUTED AT FRT DOOR (D) DISPLACEMENT TEST DATE:04-C4-85
A-D DATA SAE CLASS 180 (2ND INTEGRAL ACCELERATION)



RELEASED BY: *DLF*
43 PROCESSED 8 APR 85 19:58

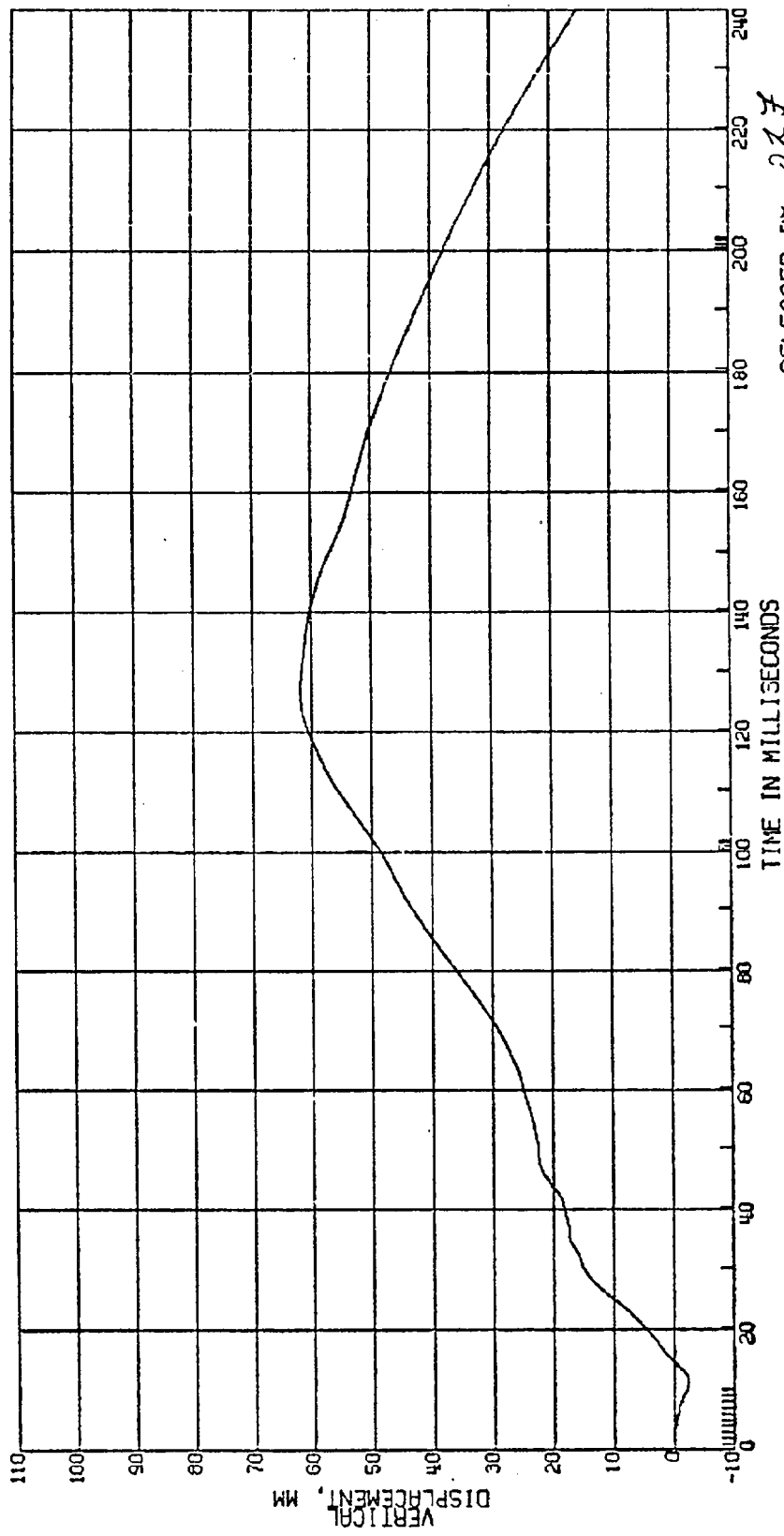
CG1858 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 35
 3865-075
 FB-CPC (STUCK VEH. CC464 3JC77)
 A-D DATA SAE CLASS 180
 (NOT USED IF NOTED BELOW)

COMPUTED AT FAT DOOR (D) DISPLACEMENT
 TEST DATE: 04-C4-85
 (2ND INTEGRAL ACCELERATION)



RELEASED BY: *2xf*
 46 PROCESSED 3 APR 85 19:58

C61858 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 36
3865-075
FB-CPC (STRUCK VEH. CC464 3JC77)
A-D DATA SAE CLASS 180
COMPUTED AT FAT DOOR (D) DISPLACEMENT
(2ND INTEGRAL ACCELERATION)
TEST DATE: 04-C4-85



RELEASED BY: DJF
49 PROCESSED 8 APR 85 13:58

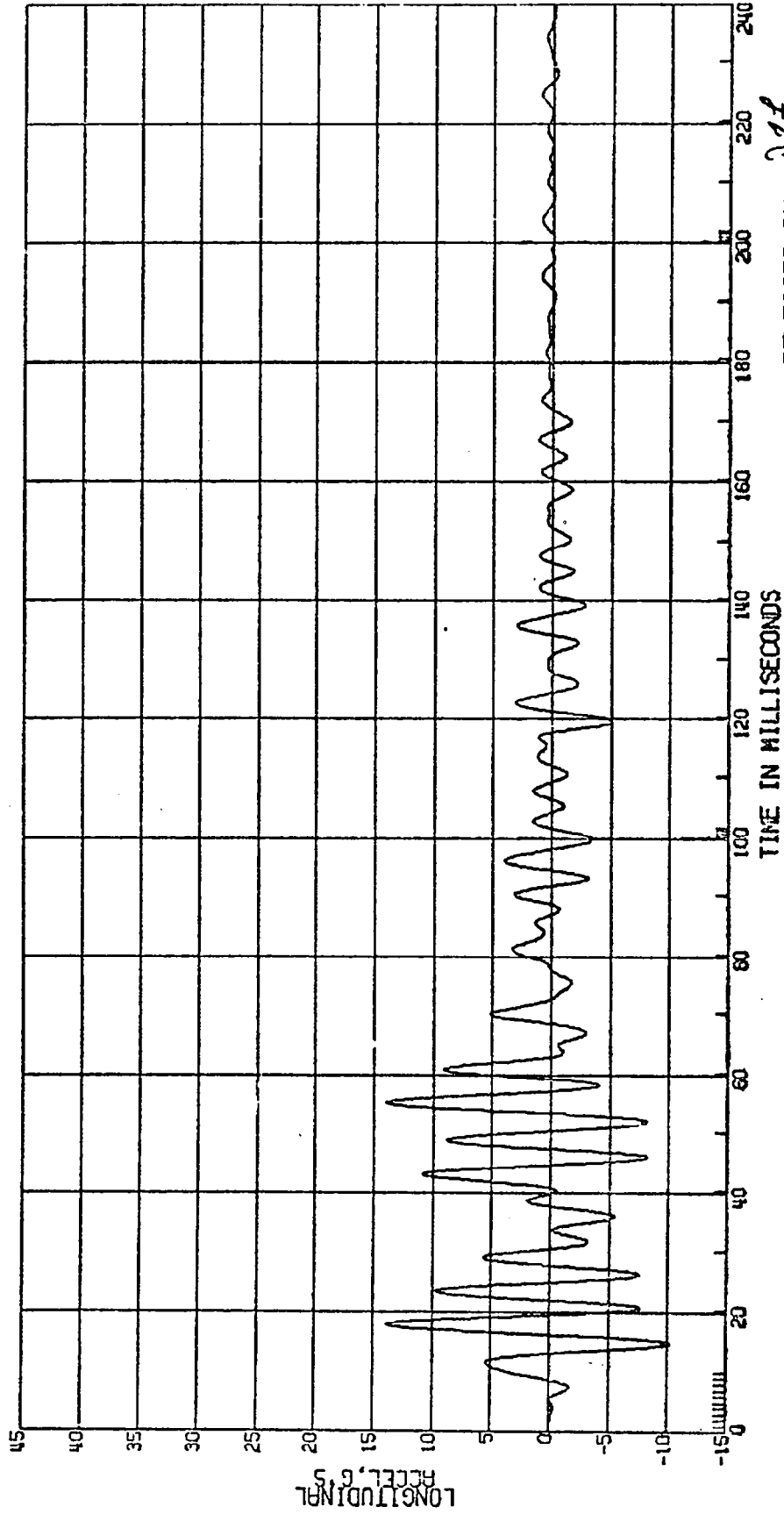
3865-075

FB-CPC (STRUCK VEH. CC464 3JC77)

A-O DATA SAE CLASS 60

DR-SIDE FLOOR PAN ACCEL.

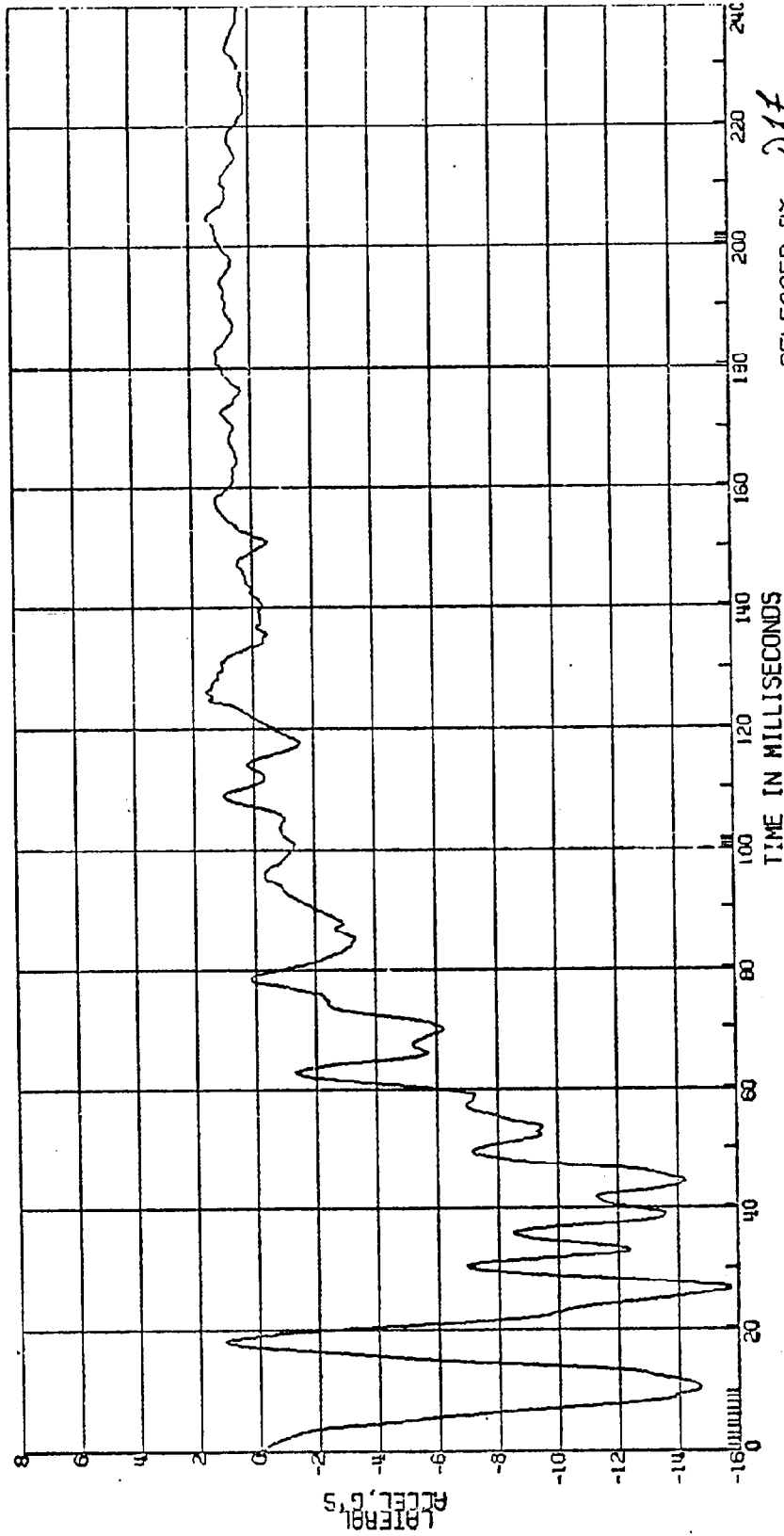
TEST DATE: 04-C4-85



RELEASED BY: *dlf*

53 PROCESSED 8 APR 85 18:58

C61858 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 38
3865-075 DR-SIDE FLOOR PAN ACCEL. TEST DATE:04-C4-85
FB-CPC (STRUCK VEH.CC464 3JC77)
A-D DATA SAE CLASS 60



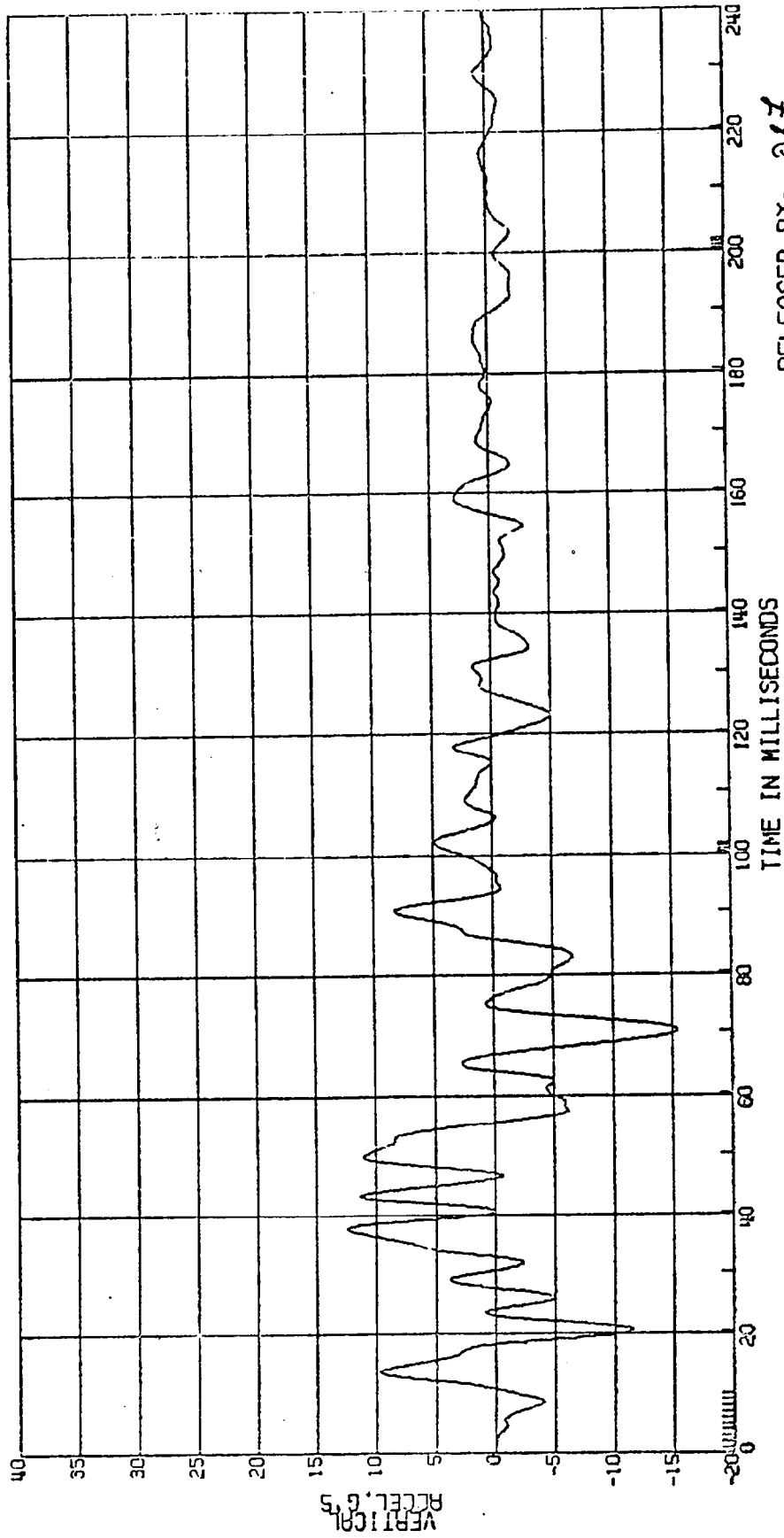
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59 PROCESSED 8 AP 85 18:58

3865-075

FB-CFC (STRUCK VEH. CC464 3JC77)
A-D DATA SAE CLASS 60

DR-SIDE FLOOR PAN ACCEL.

TEST DATE: 04-C4-85

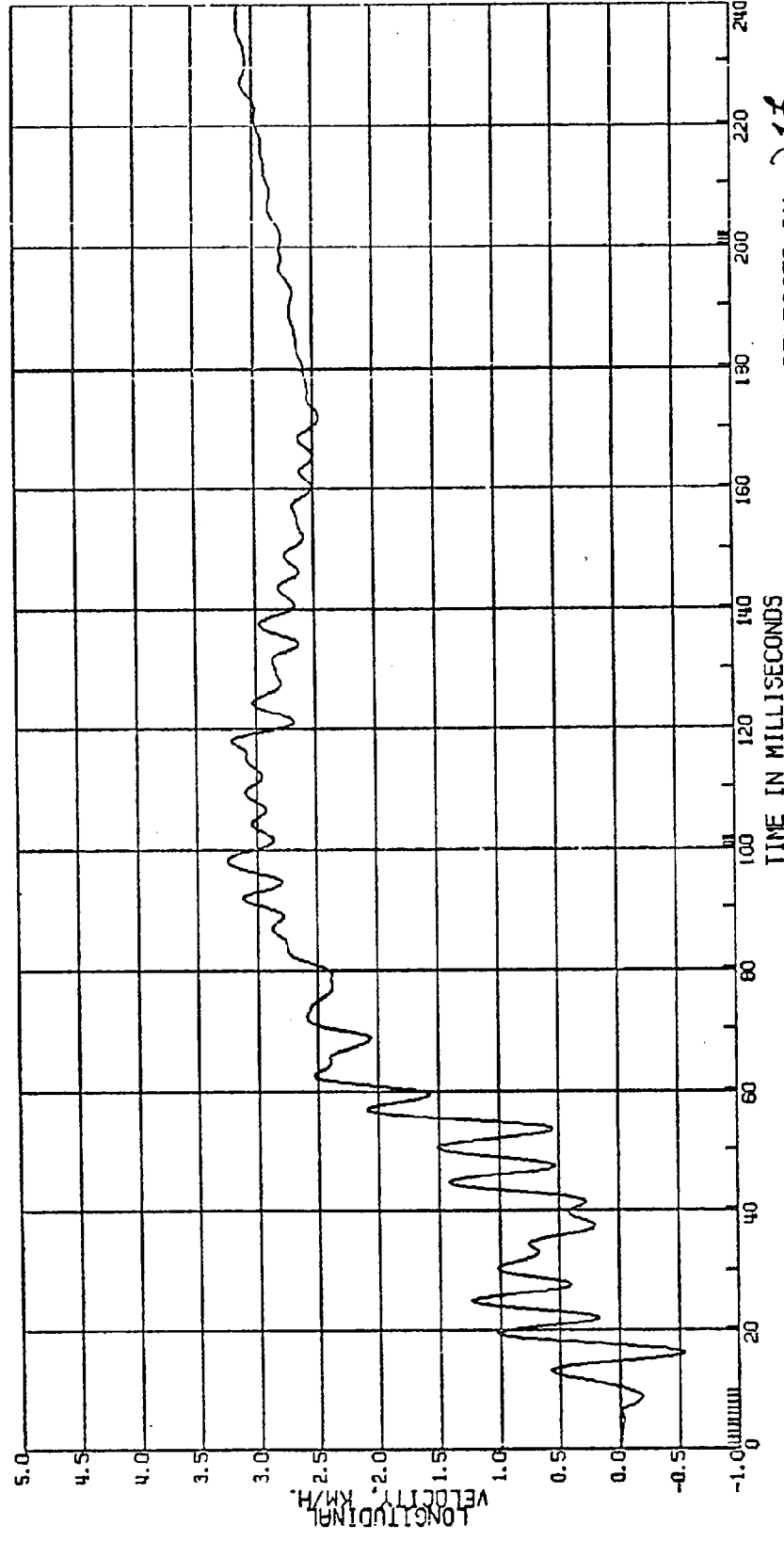


RELEASED BY: *217*
62 PROCESSED 8 APR 85 19:59

3865-075
FB-CPC (STRUCK VEH. CC464 3JC77)
A-D DATA SAE CLASS 180

COMPUTED FLOOR PAN VELOCITY
(1ST INTEGRAL ORS-SIDE ACCELERATION)

3865-075
FB-CPC (STRUCK VEH. CC464 3JC77)
A-D DATA SAE CLASS 180



RELEASED BY: *dlf*
54 PROCESSED & RP 85 1915A

3865-075

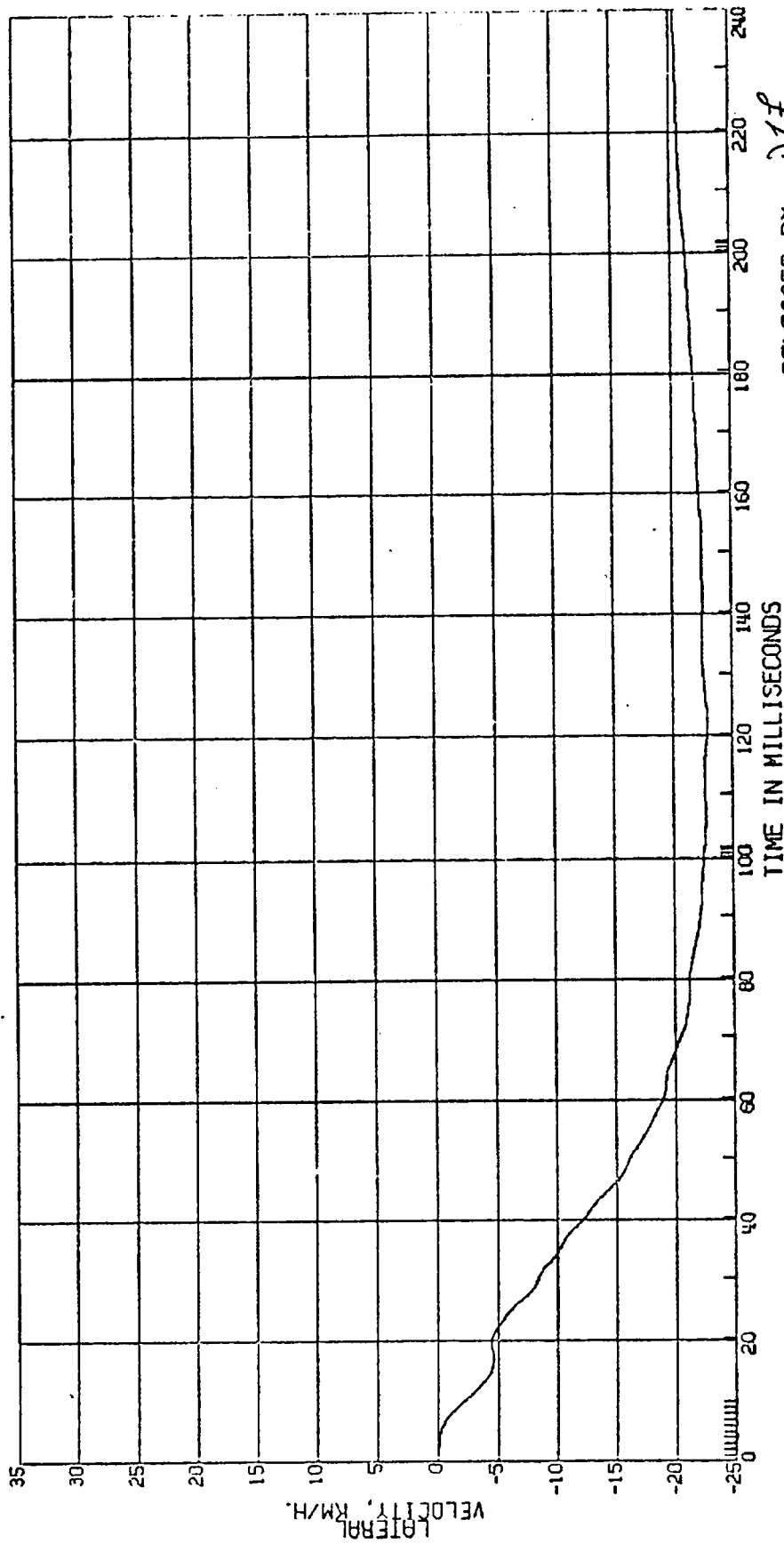
FB-CFC (STUCK VEH. CC464 3JC77)

A-D DATA SAE CLASS 180

COMPUTED FLOOR PAN VELOCITY

TEST DATE: 04-C4-85

(1ST INTEGRAL DRS-SIDE ACCELERATION)



RELEASED BY: *DIF*

GO PROCESSED 8 RP 85 19159

3865-075

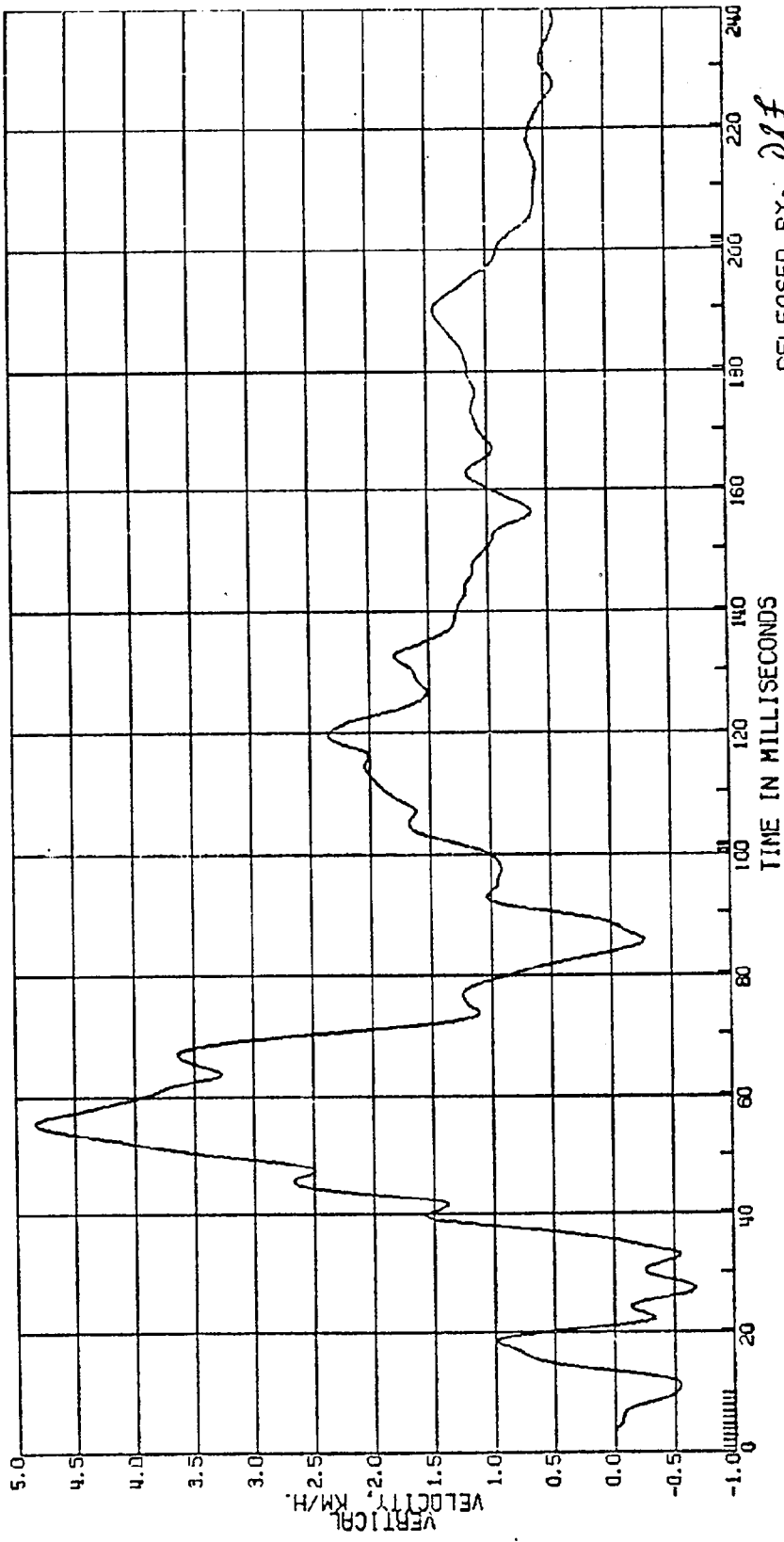
FB-CPC (STUCK VEH. CC464 3JC77)

R-D DATA SAE CLASS 180

COMPUTED FLOOR PAN VELOCITY

TEST DATE: 04-C4-85

(1ST INTEGRAL DRS-SIDE ACCELERATION)



RELEASED BY: *DLF*
G3 PROCESSED 8 APR 85 18158

0000-0/0

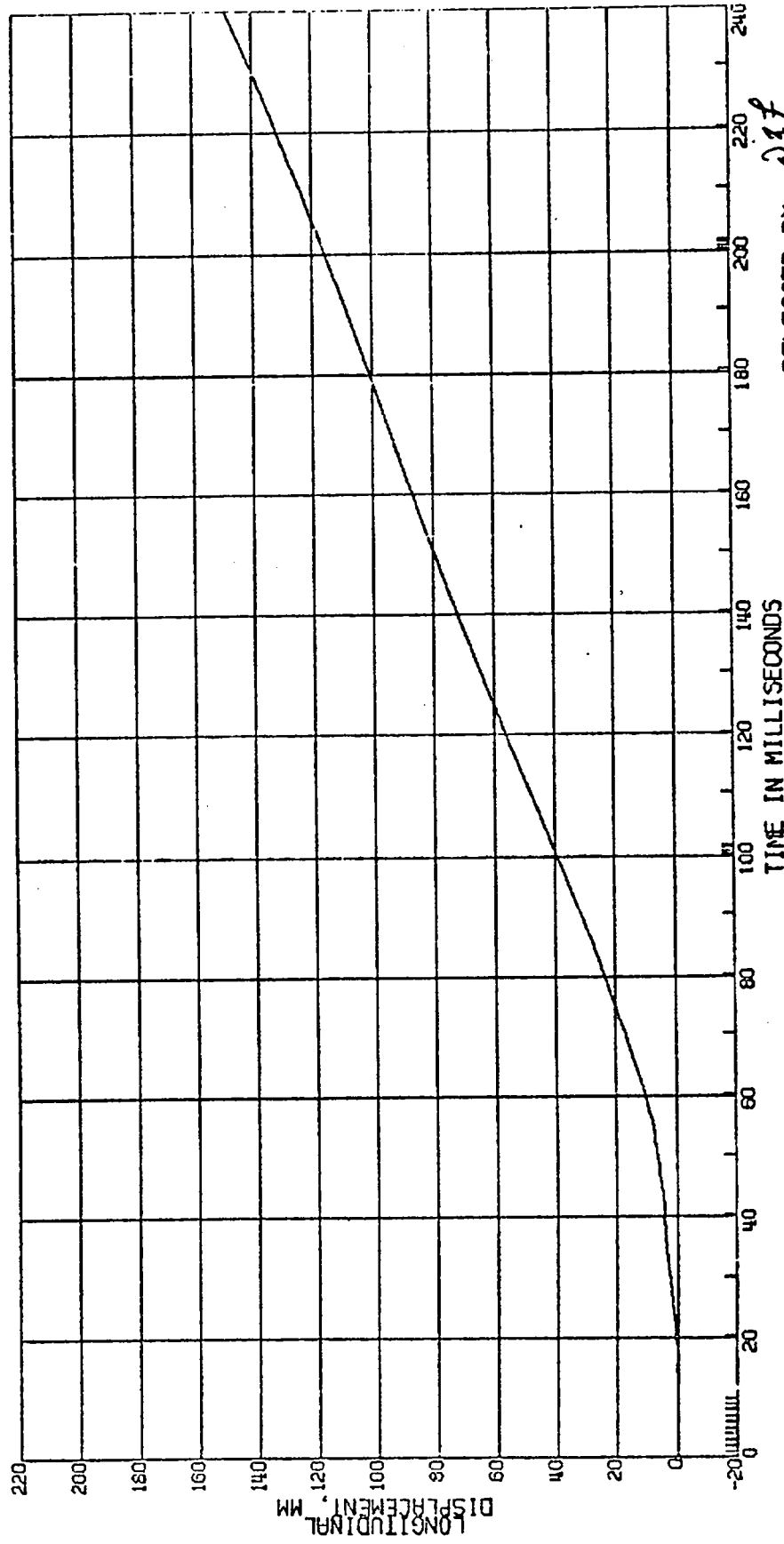
FB-CPC (STRAUCK VEH.CC464 3JC77)

A-D DATA SAE CLASS 180

COMPUTED FLOOR PAN DISPLACEMENT

(2ND INTEGRAL DRS-SIDE ACCELERATION)

TEST DATE:04-C4-85



RELEASED BY: DJF

55 PROCESSED 8 APR 85 18:58

3865-0/5

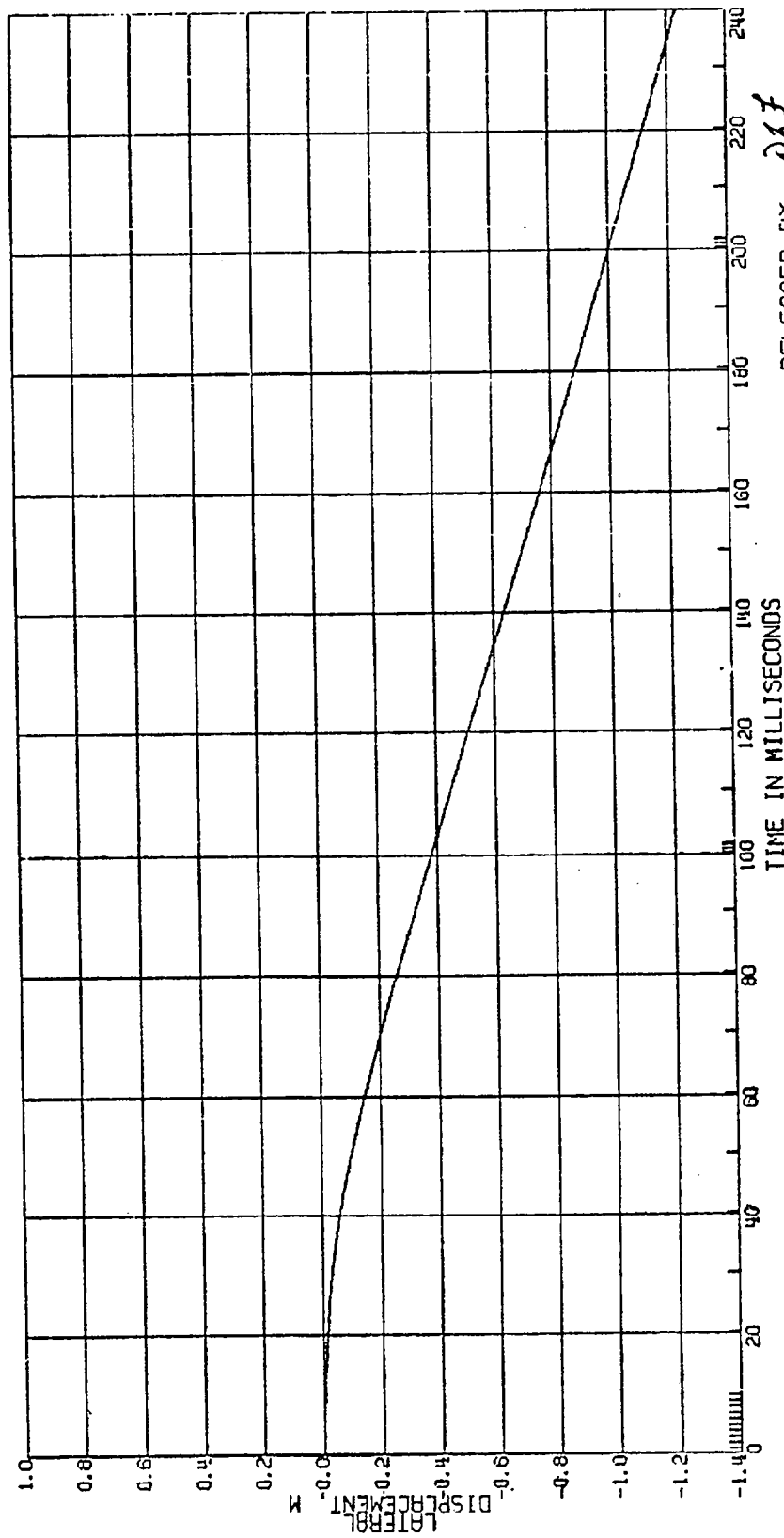
FB-CPC (STRUCK VEH. CC464 3JC77)

A-D DATA SAE CLASS 180

COMPUTED FLOOR PAN DISPLACEMENT

(2ND INTEGRAL DRS-SIDE ACCELERATION)

TEST DATE: 04-C4-85



RELEASED BY: *DAF*
61 PROCESSED 8 AP 85 18:58

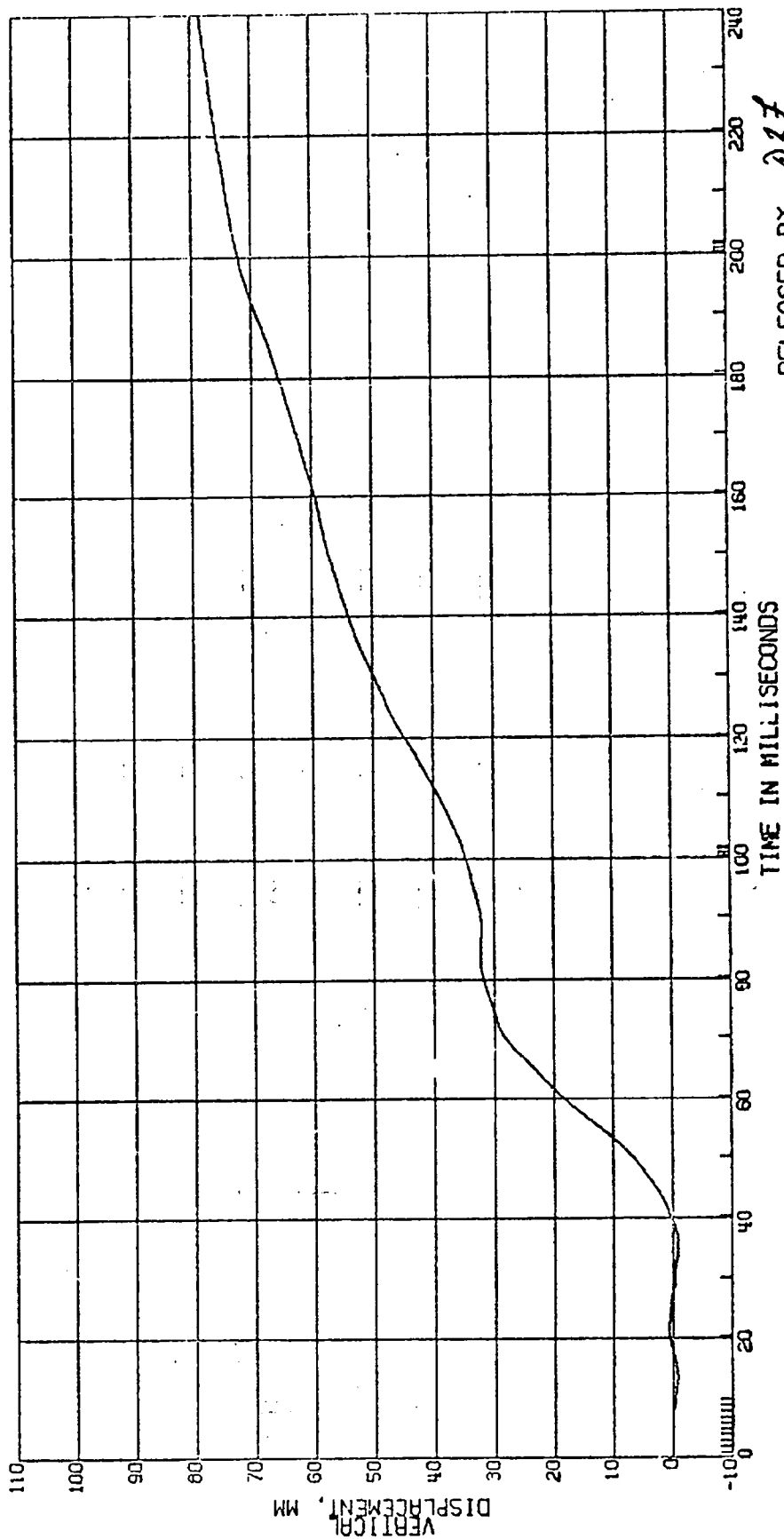
TEST DATE: 04-C4-85

WOMAN, L. L. (MAY 1985) (MAY 1985)

FB-CUC (STUCK) VEH. CC464 3JC77)

A-B DATA SAE CLASS 180

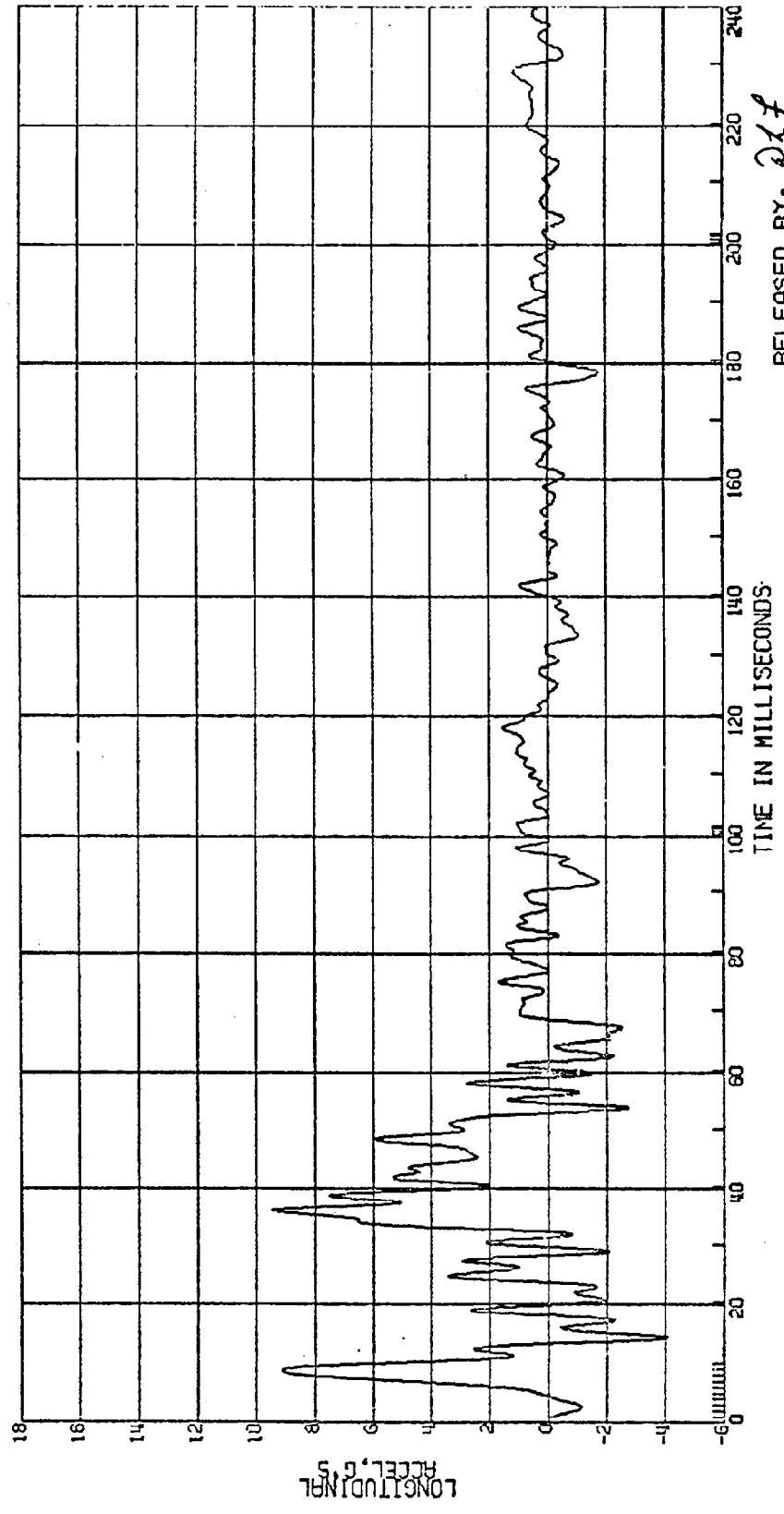
(2ND INTEGRAL DRS-SIDE ACCELERATION)



RELEASED BY: DJF

64 PROCESSED 8 APR 85 19:58

C61858 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 46
3865-075
FB-CPC (STRUCK VEH. CC464 3JC77)
A-D DATA SAE CLASS 60
PASS-SIDE TRUNK ACCEL.
TEST DATE: 04-C4-85



RELEASED BY: *dlf*
65 PROCESSED 8 APR 85 19:58

COE138 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 47

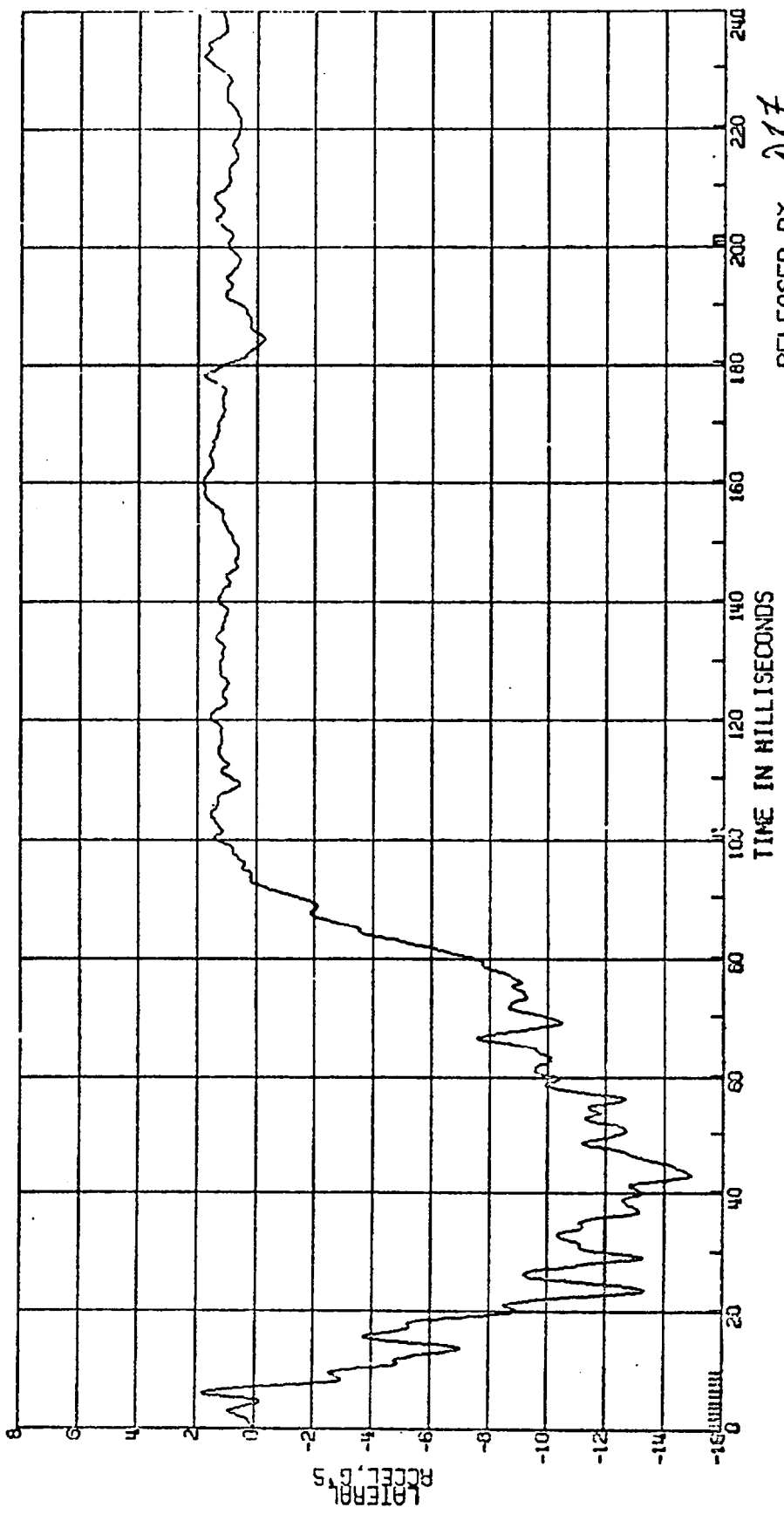
3865-075

FB-CPC (STRUCK VEH. CC464 3JC77)

A-D DATA SAE CLASS 60

PASS-SIDE TRUNK ACCEL.

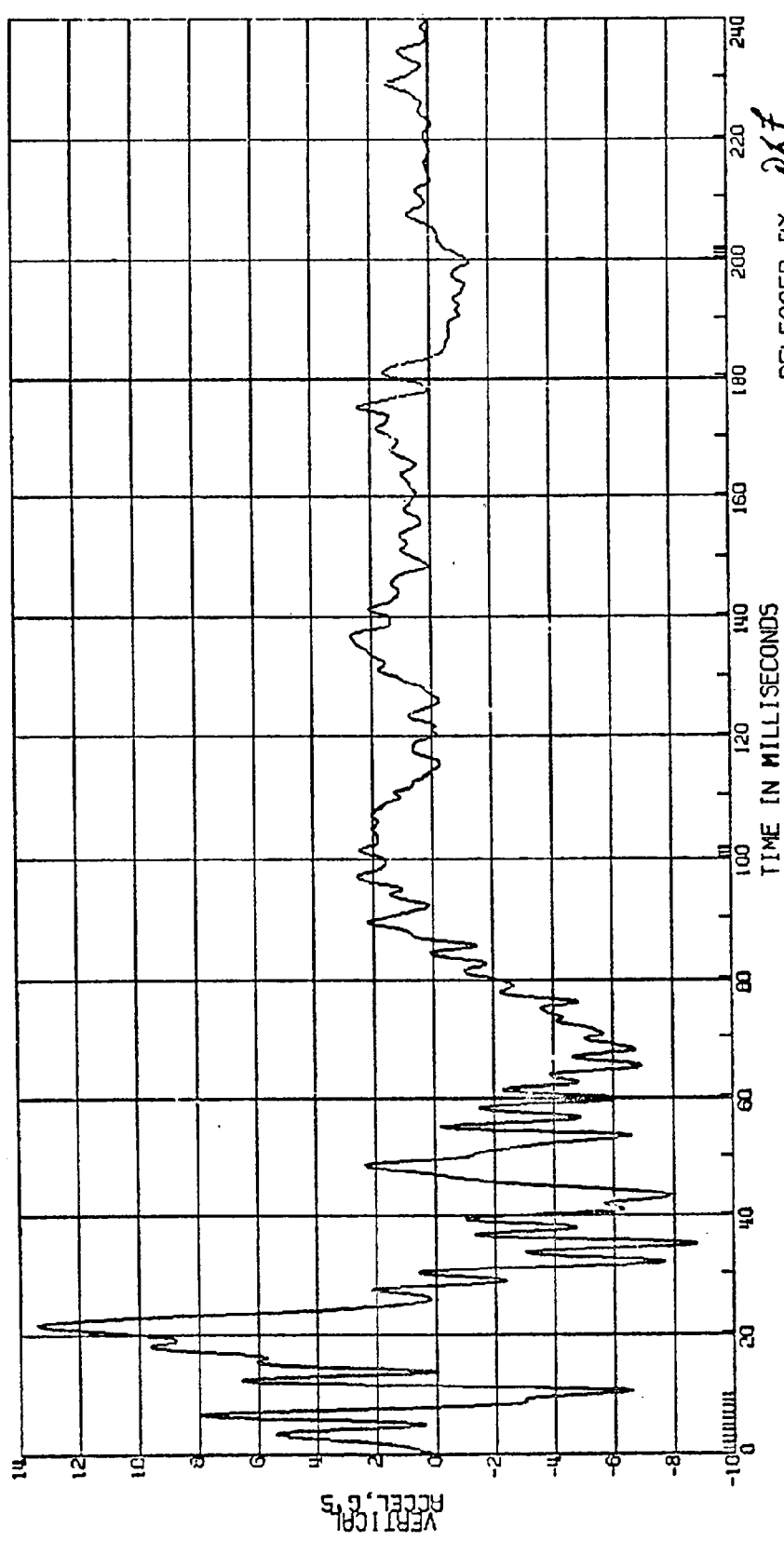
TEST DATE: 04-C4-85



127

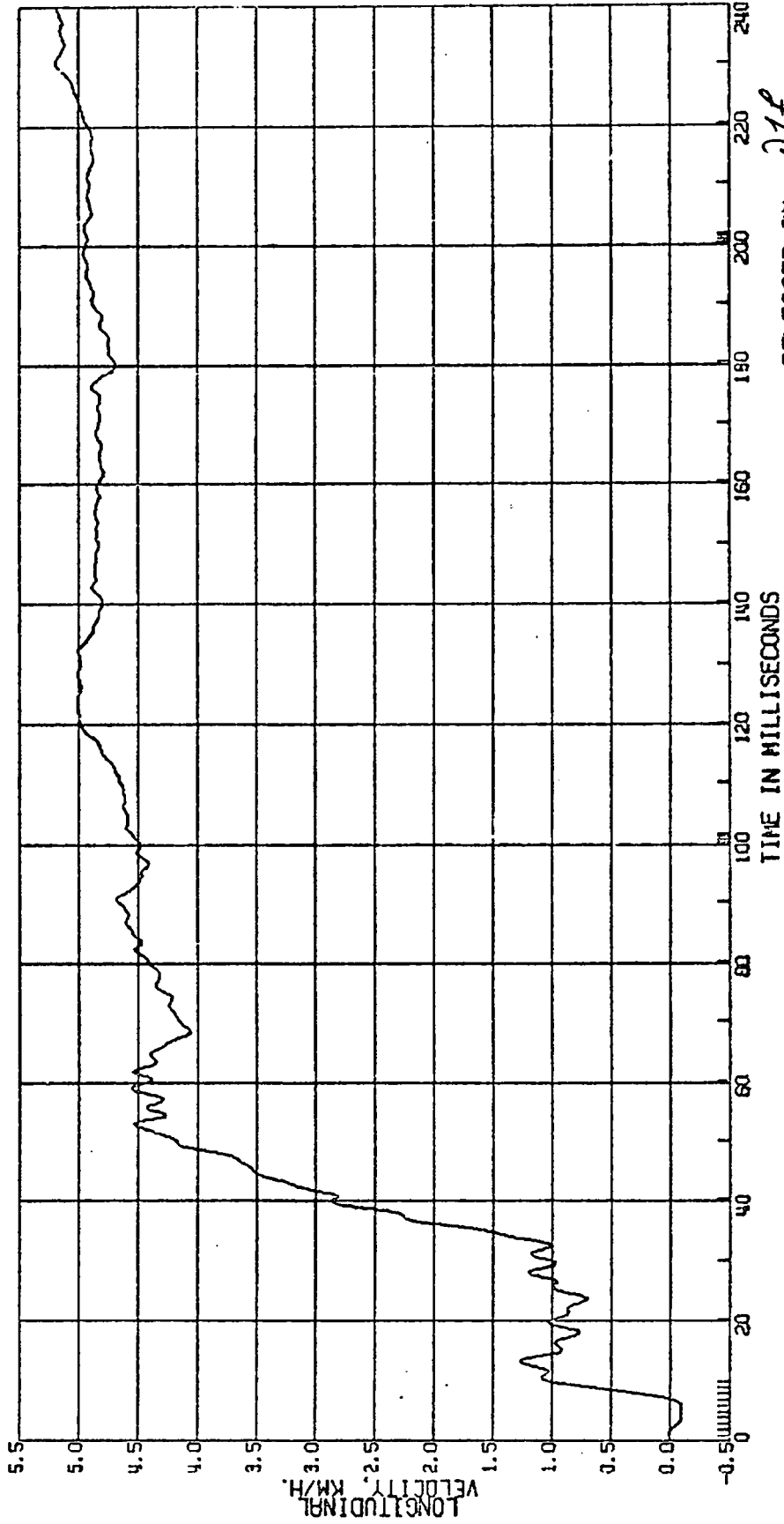
RELEASED BY: 8 AP 85 20:00
68 PROCESSED 8 AP 85 20:00

C61858 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 48
3865-075 PASS-SIDE TRUNK ACCEL.
FB-CPC (STRAUCK VEH.CC464 3JC77) TEST DATE: 04-C4-85
A-D DATA SAE CLASS 60



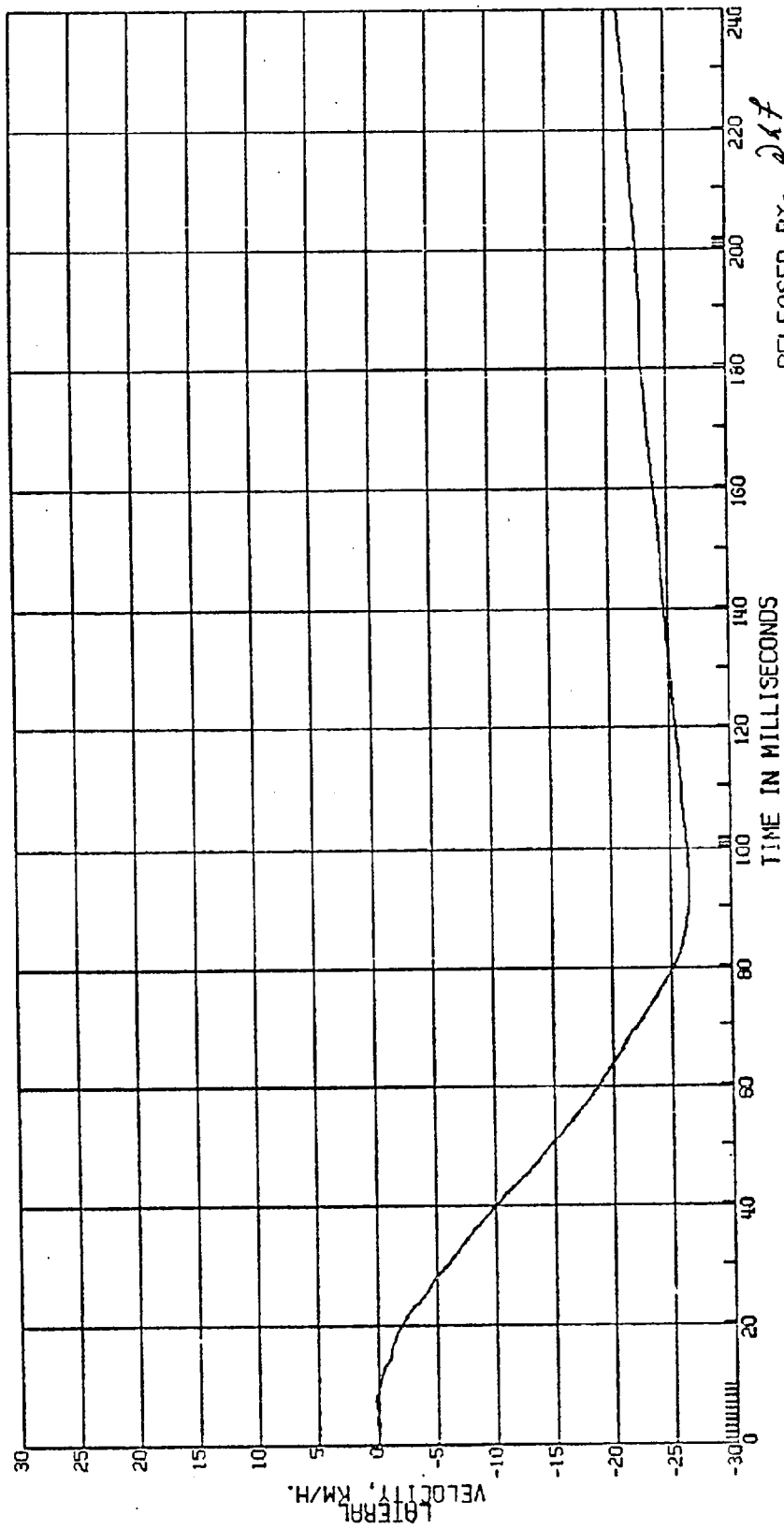
RELEASED BY: *DXF*
71 PROCESSED 8 AP 85 20:00

C61858. RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 49
 3865-075 COMPUTED TRUNK VELOCITY TEST DATE: 04-C4-85
 FB-CPC (STRUCK VEH. CC464 3JC77)
 A-D DATA SAE CLASS 180
 (1ST INTEGRAL PASS-SIDE ACCELERATION)



RELEASED BY: *DLF*
 65 PROCESSED 8 APR 85 19:50

C6185B RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 5°
3865-075 TEST DATE: 04-C4-85
FB-CPC (STRUCK VEH. CC464 3JC77) COMPUTED TRUNK VELOCITY
A-D DATA SAE CLASS 180 (1ST INTEGRAL PASS-SIDE ACCELERATION)



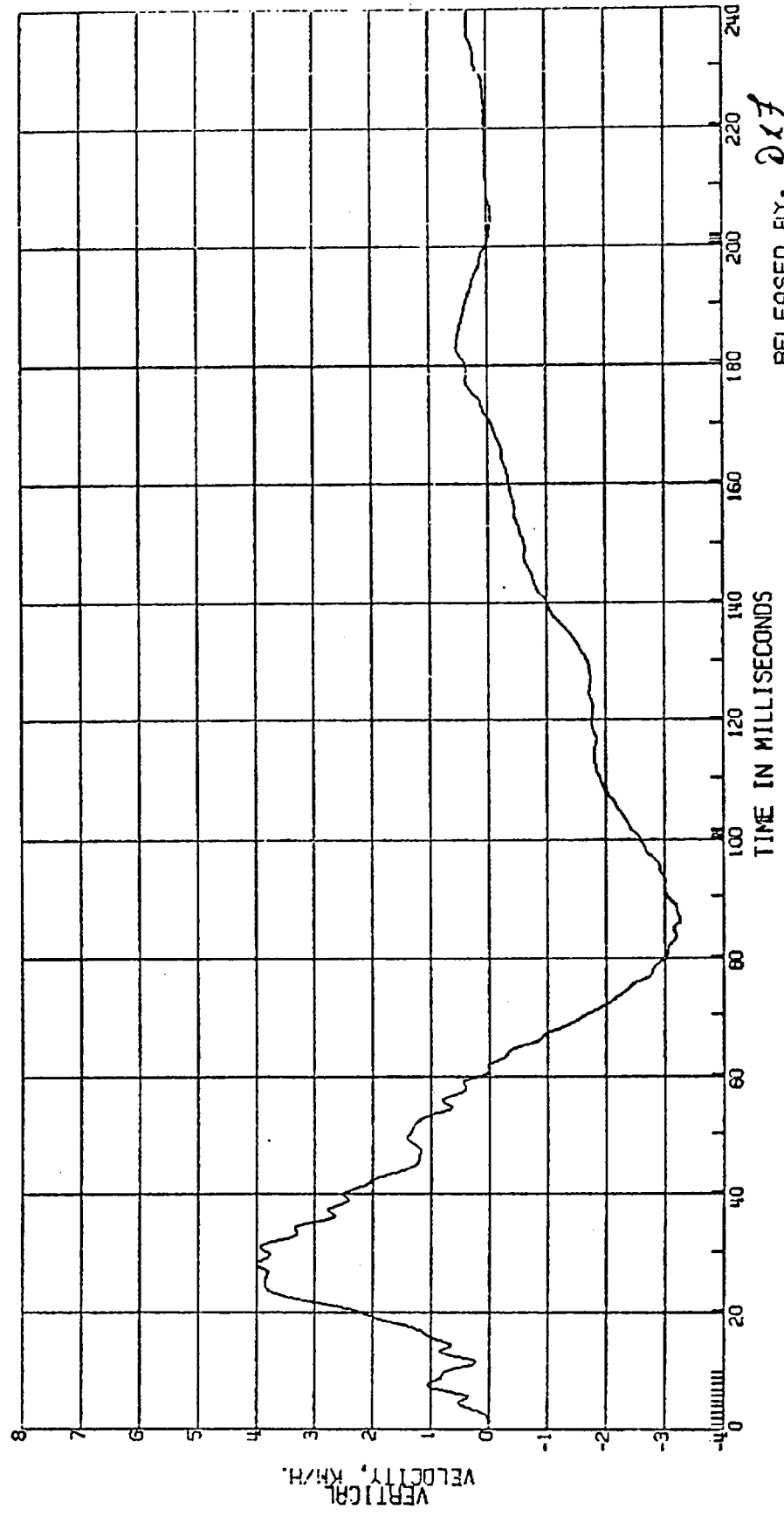
RELEASED BY: *dyf*
59 PROCESSED 8 AP 85 20:00

MOVING BACKLASH IN PARKED VEHICLE 41.3KM/H FIGURE 21

COMPUTED TRUNK VELOCITY

TEST DATE: 04-C4-85

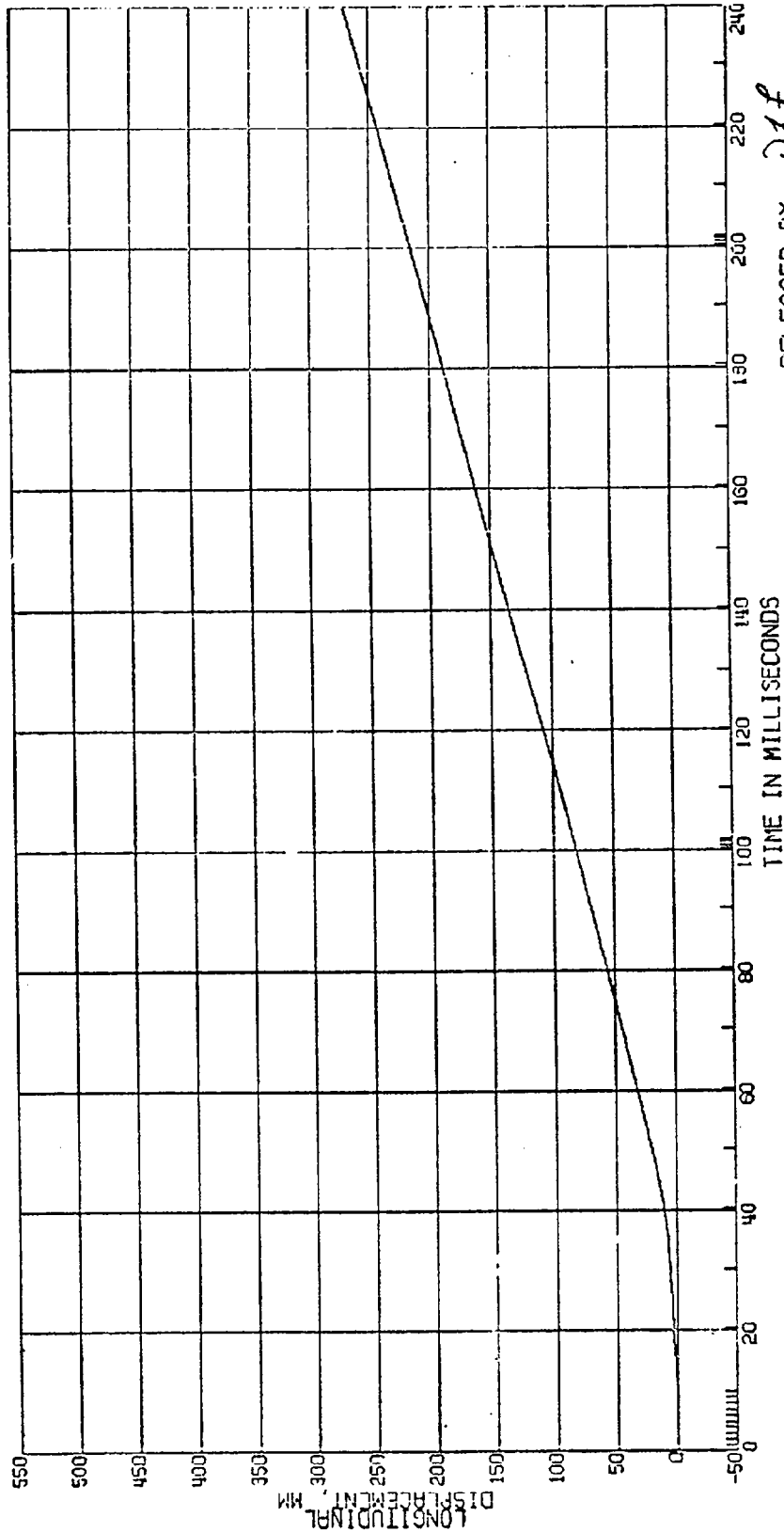
(1ST INTEGRAL PASS-SIDE ACCELERATION)



RELEASED BY: DJF

72 PROCESSED 8 AP 85 20:00

3865-075
 FB-CPC (STRUCK VEH. CC464 3JC77)
 A-D DATA SAE CLASS 180
 MOVING AVERAGE IN GAMMA VEHICLE 41.3MM/M FIGURE 22
 COMPUTED TRUNK DISPLACEMENT
 (2ND INTEGRAL PASS-SIDE ACCELERATION)

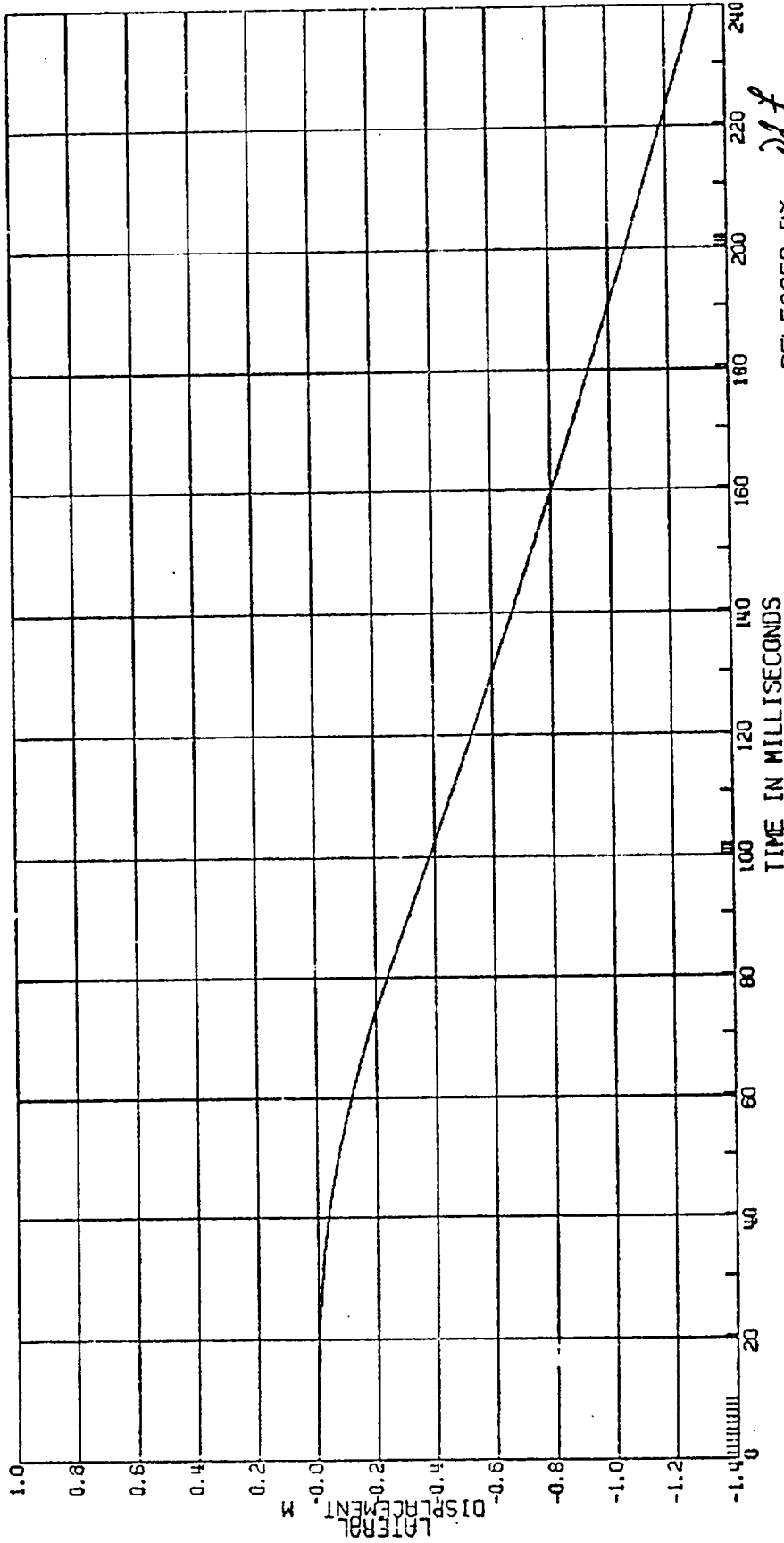


RELEASED BY: *Dif*
 67 PROCESSED 8 APR 85 20:00

CG1858. RIGHT SIDE IMPACT
3865-075
FB-CPC (STRUCK VEH. CC464 3JC77)
A-D DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 55
COMPUTED TRUNK DISPLACEMENT
TEST DATE: 04-C4-85

(2ND INTEGRAL PASS-SIDE ACCELERATION)



RELEASED BY: *dlf*
70 PROCESSED 8 AP 85 20:00

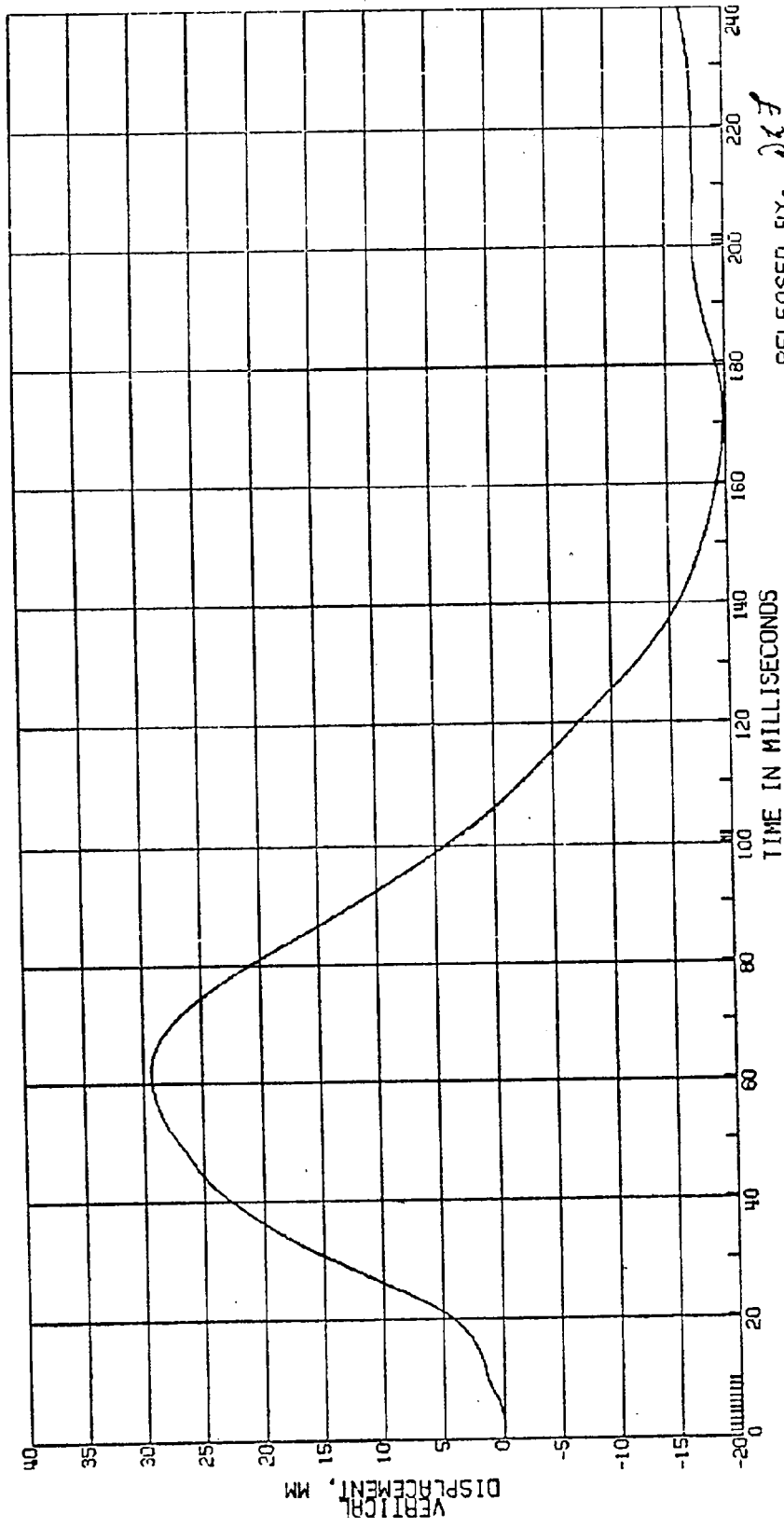
TEST DATE: 04-C4-85

COMPUTED TRUNK DISPLACEMENT

3865-075
FB-CPC (STRUCK VEH. CC464 3JC77)

(2ND INTEGRAL PASS-SIDE ACCELERATION)

A-D DATA SAE CLASS 180



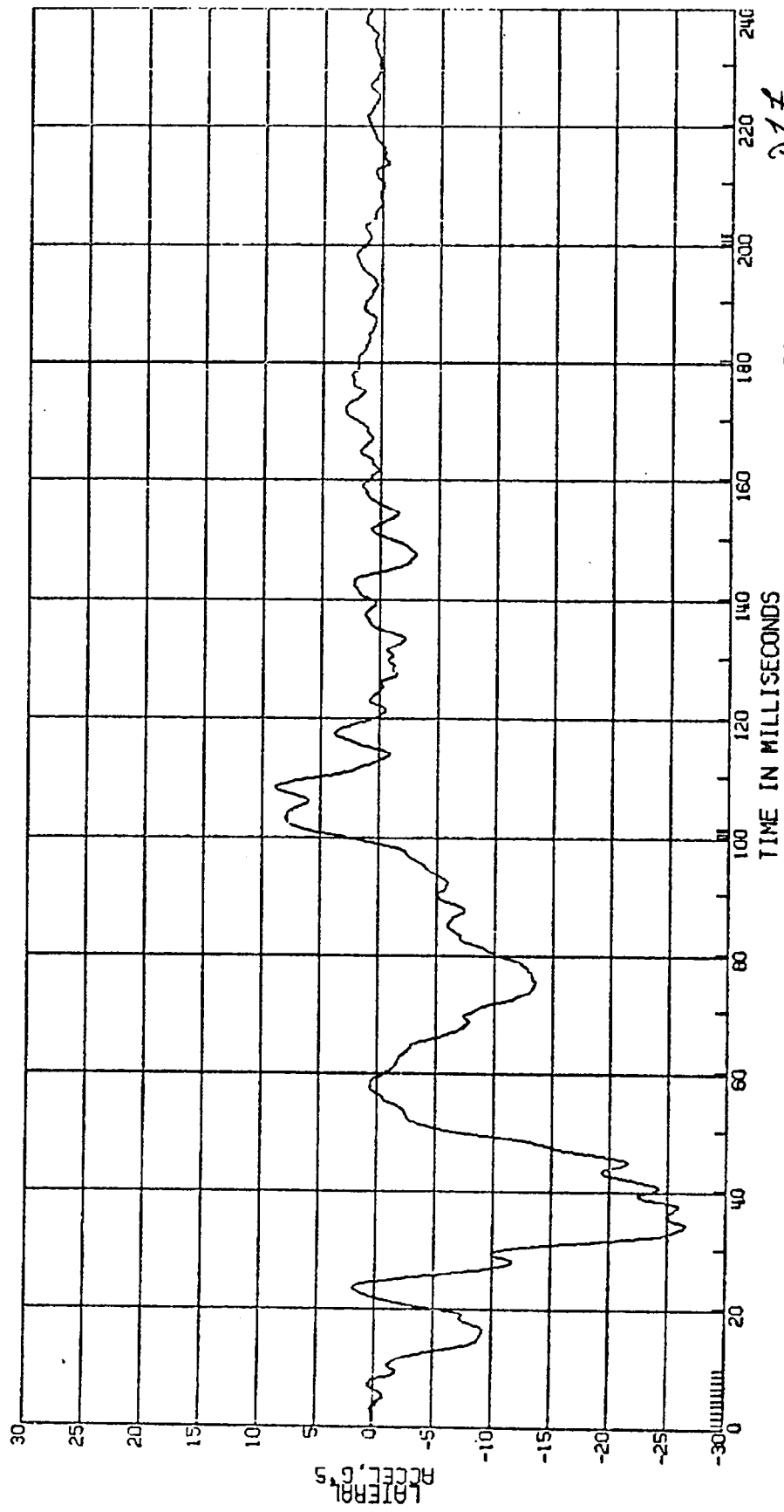
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73 PROCESSED 8 AP 85 20:00

0000-U/3

FB-CPC (STRUCK VEH. CC464 3JC77)
A-D DATA SAE CLASS 60

LT FRT DOOR (A') ACCEL.

TEST DATE: 04-C4-85

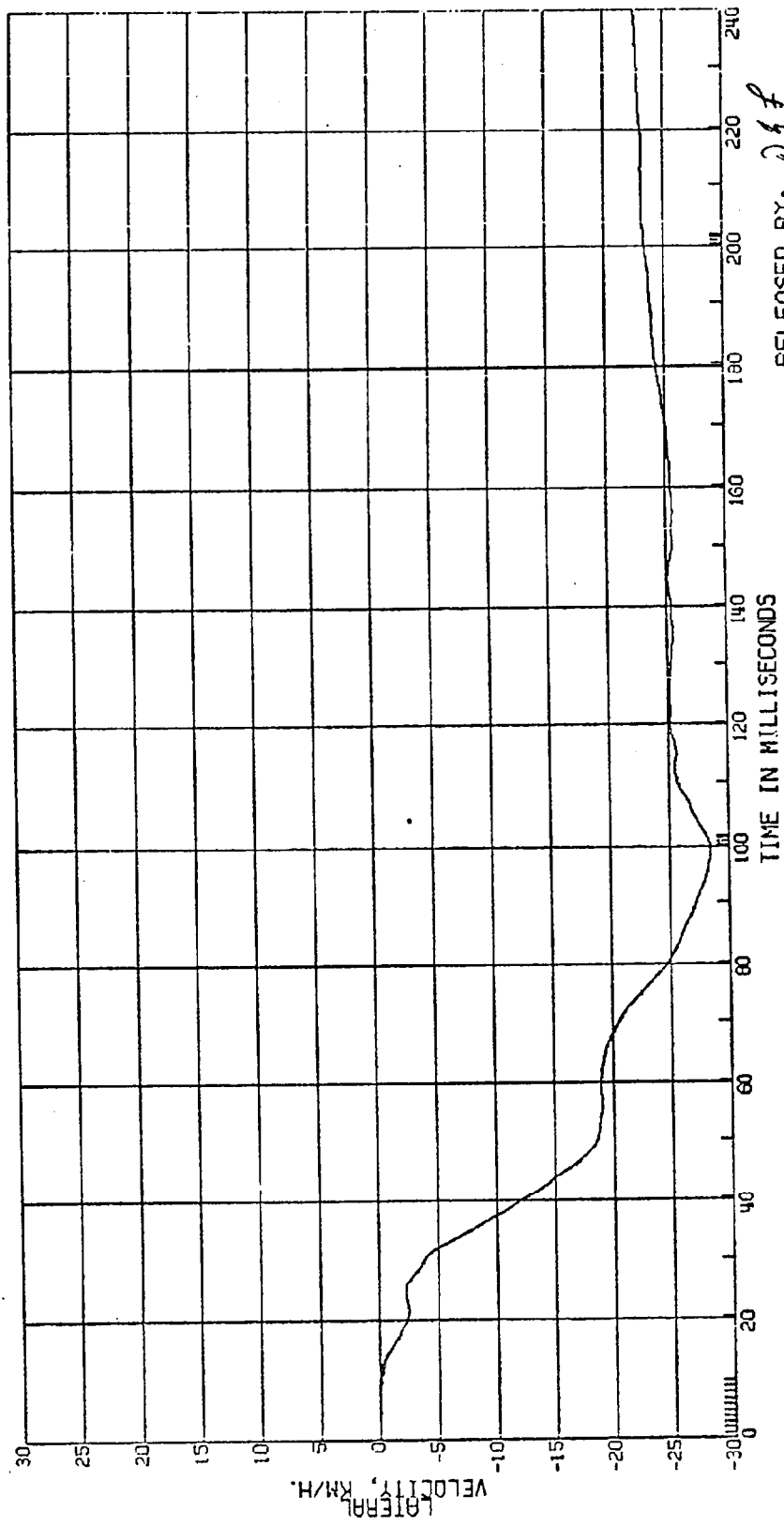


RELEASED BY: *DZF*
50 PROCESSED 8 APR 85 19:58

3865-075
FB-CPC (STRUCK VEH. CC464 3JC77)
A-D DATA SAE CLASS 180

COMPUTED LT FRT DOOR (A') VELOCITY
(1ST INTEGRAL ACCELERATION)

TEST DATE: 04-C4-85

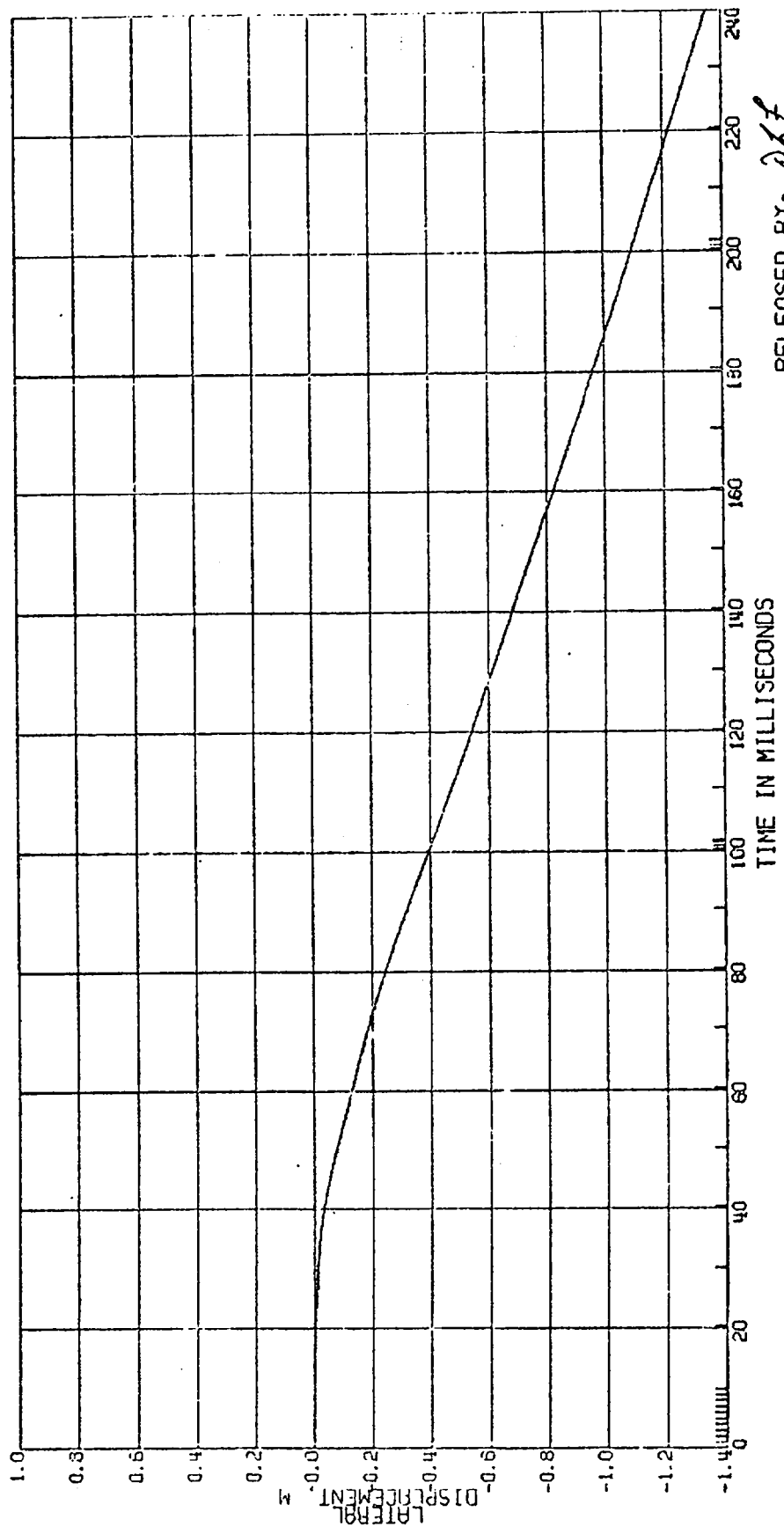


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51 PROCESSED 8 AP 85 19:58

FB-CPC (STFUCK VEH. CC464 3JC77)
A-S DATA SAE CLASS 180

COMPUTED LT FRT DOOR (A') DISPLACEMENT
(2ND INTEGRAL ACCELERATION)

TEST DATE: 04-C4-85

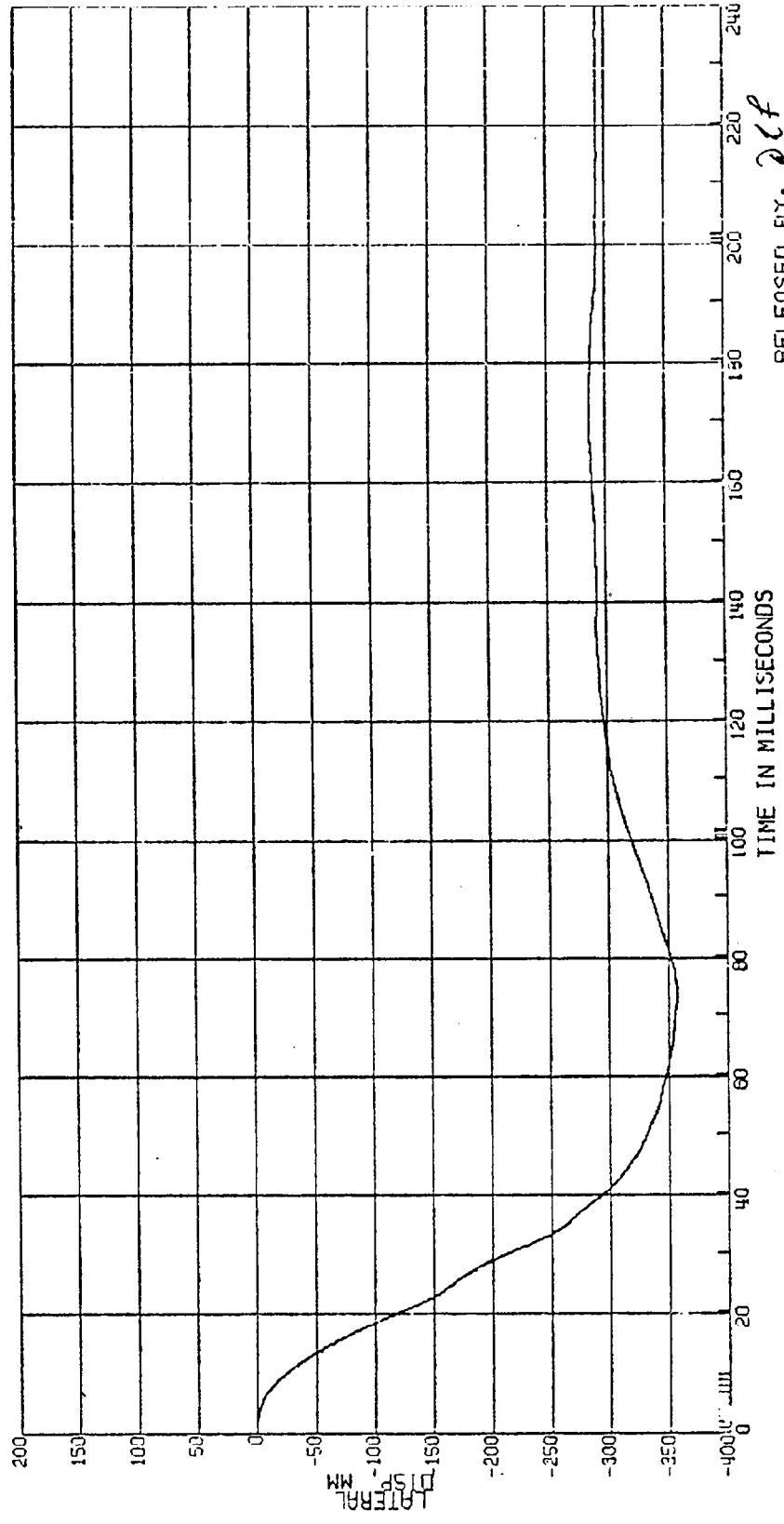


RELEASED BY: *DLF*
52 PROCESSED 8 APR 85 10:59

FB-CPC (STUCK VEH. CC464 3JC77)
A-O DATA SAE CLASS 60

PASS-SIDE B-PILLAR @ BELTLINE DISP.

TEST DATE: 04-C4-85



RELEASED BY: *DCF*
74 PROCESSED 8 APR 85 20:00

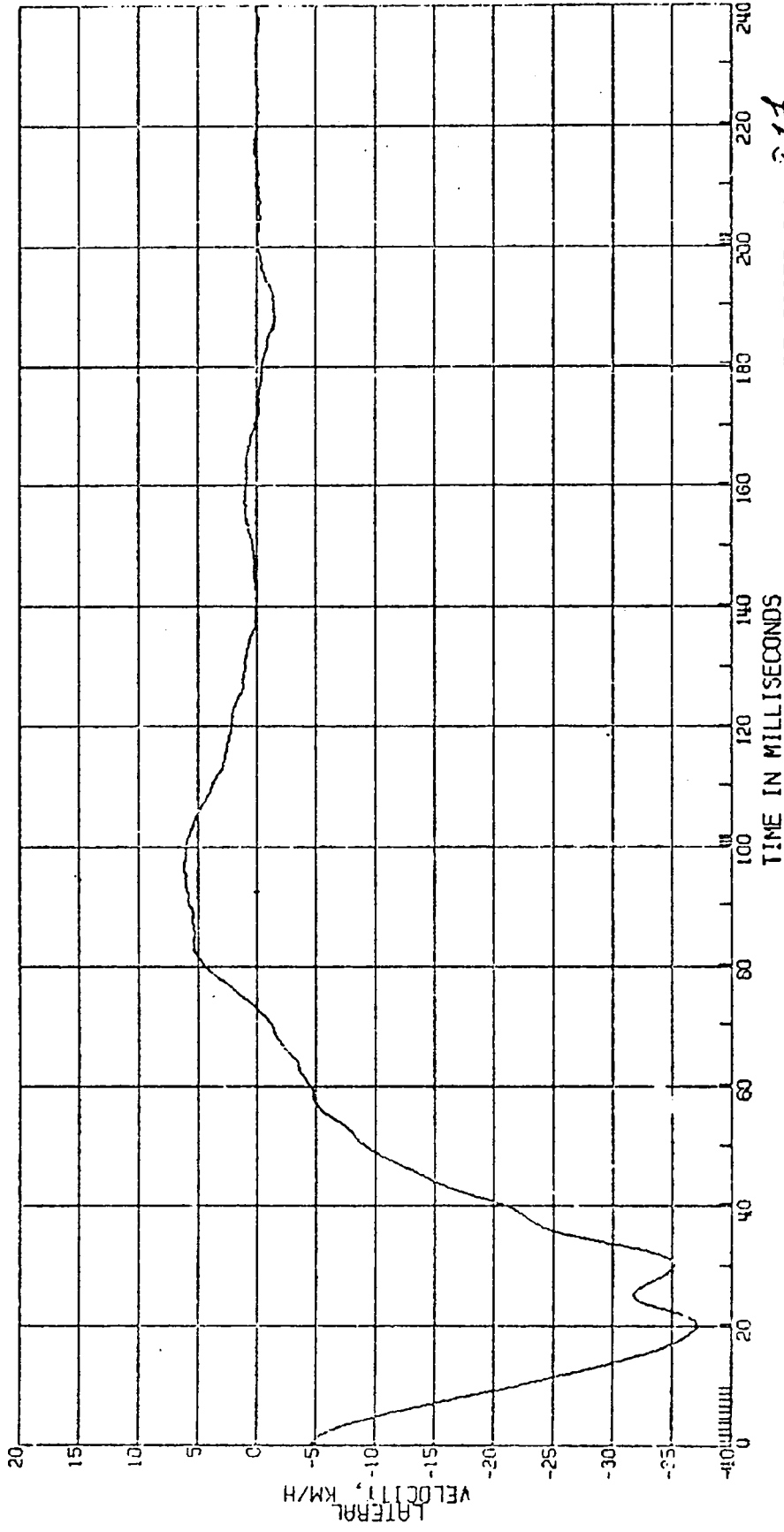
FB-CPC (STUCK VEH. CC464 3JC77)

A-2 DATA SAE CLASS 15

COMMUNICATED BY TELEPHONE & TELETYPE

(1ST DIFFERENTIATION OF DISPLACEMENT)

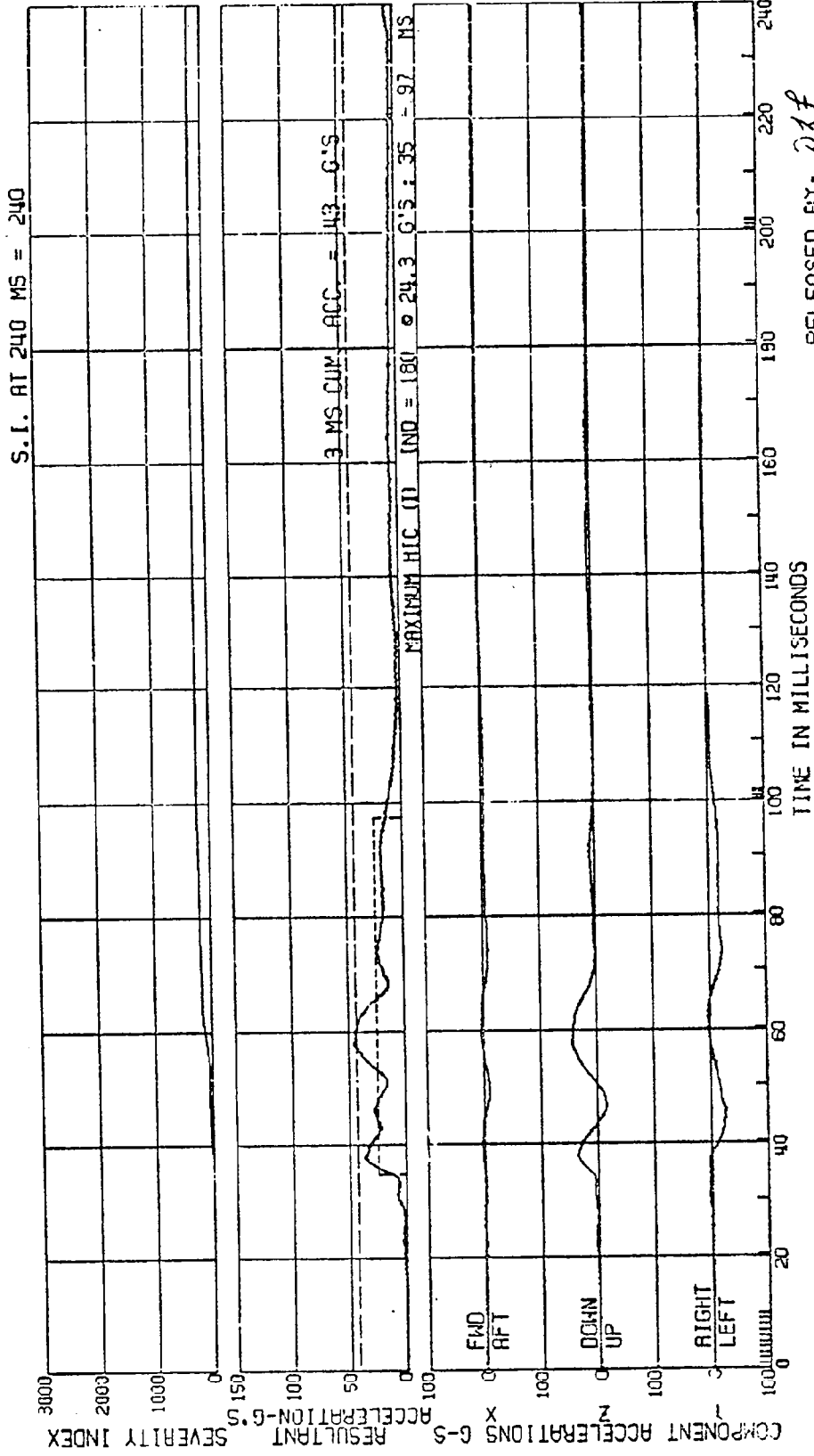
TEST DATE: 04-C4-85



RELEASED BY: 217

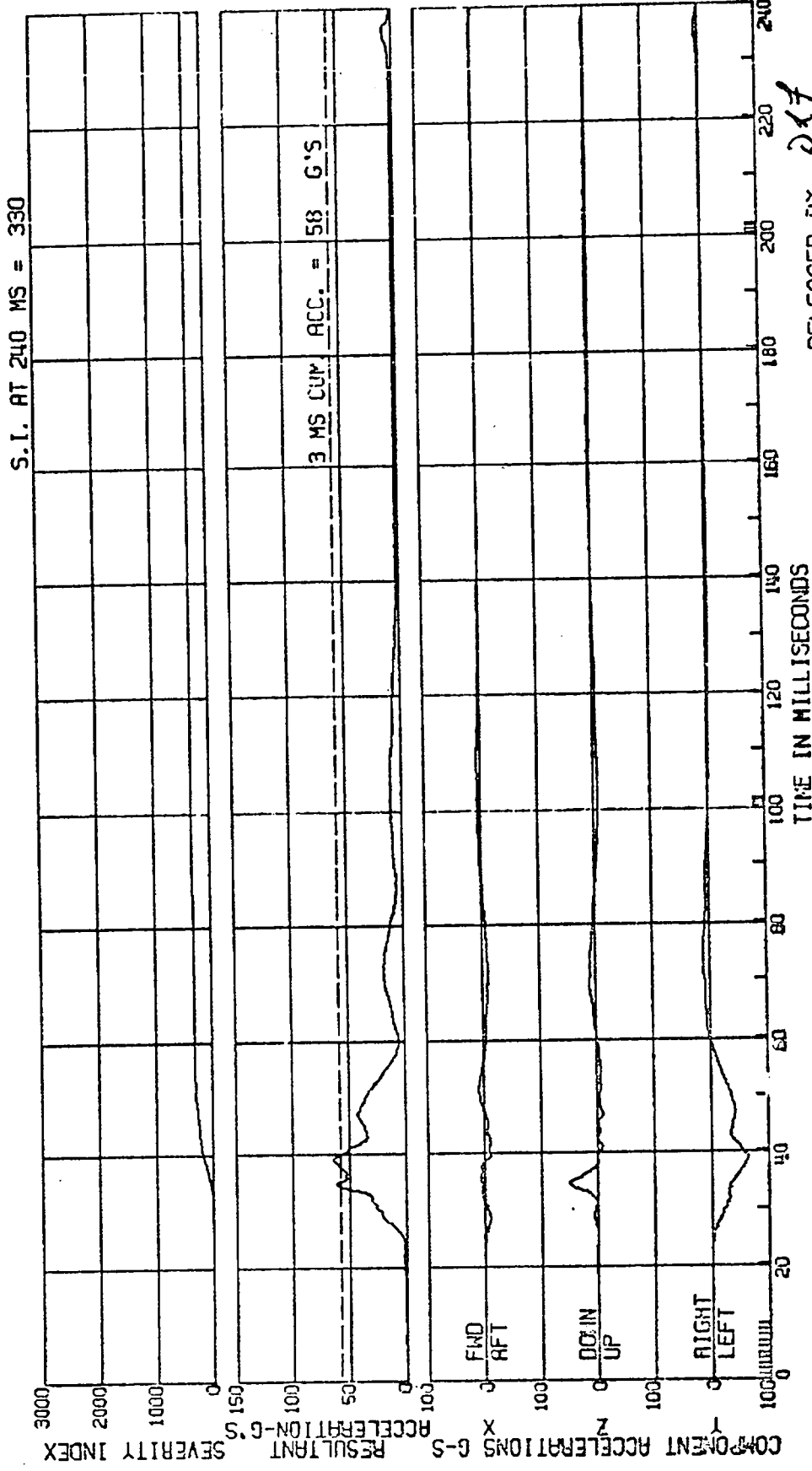
75 PROCESSED 8 APR 85 20:00

C61858 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3 KM/H FIGURE 60
 3865-075 R FRT HEAD ACCEL. GM50SI TEST DATE: 04-04-85
 FB-CFC (STUCK VEH. CC464 3JC77)
 A-D DATA



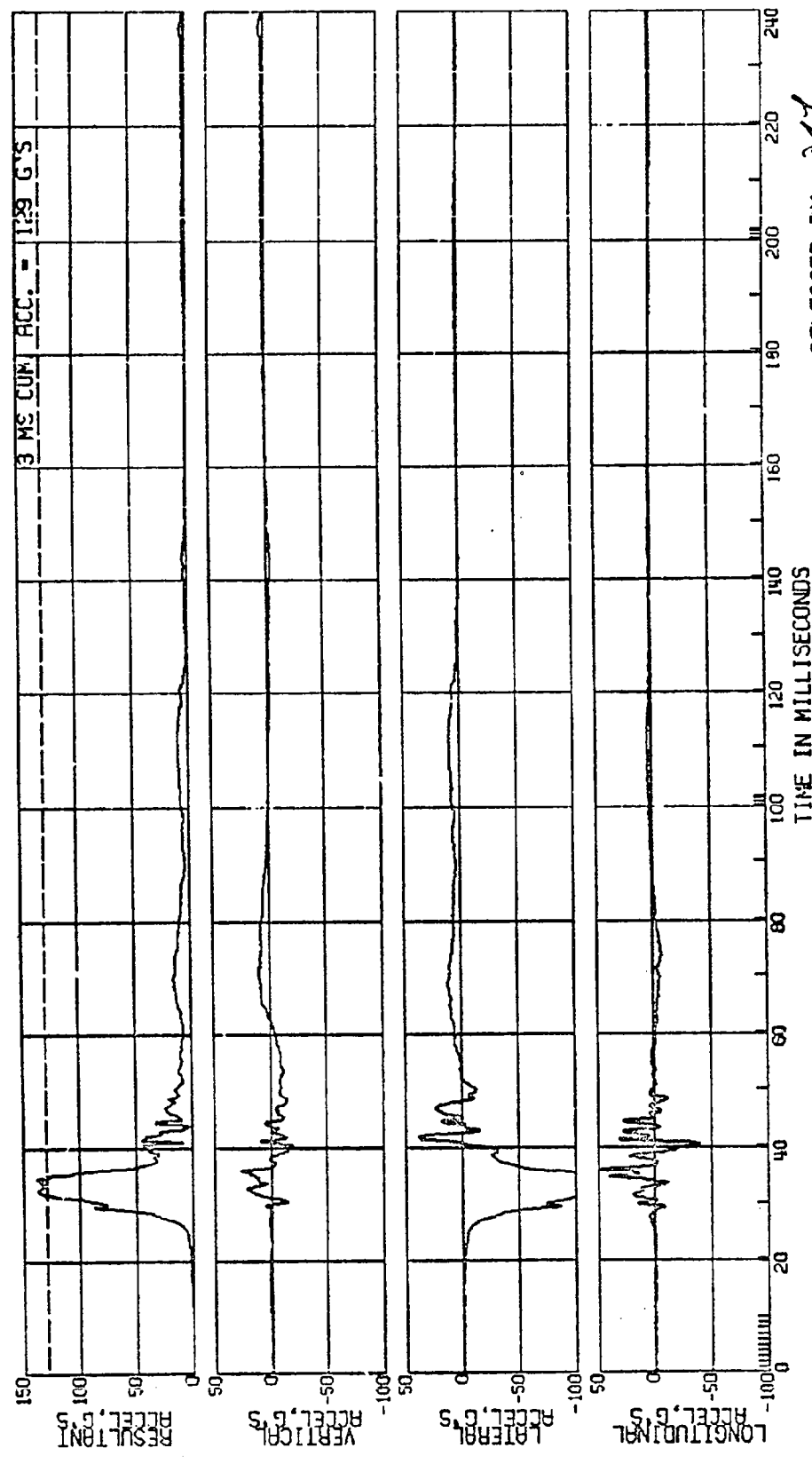
RELEASED BY: *DZF*
 1 PROCESSED 8 APR 85 19:49

C61858 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 61
 3865-075 R FRT CHEST ACCEL. GM50SI TEST DATE: 04-04-85
 FB-CPC (STRUCK VEH. CC464 3JC77)
 A-D DATA SAE CLASS 180



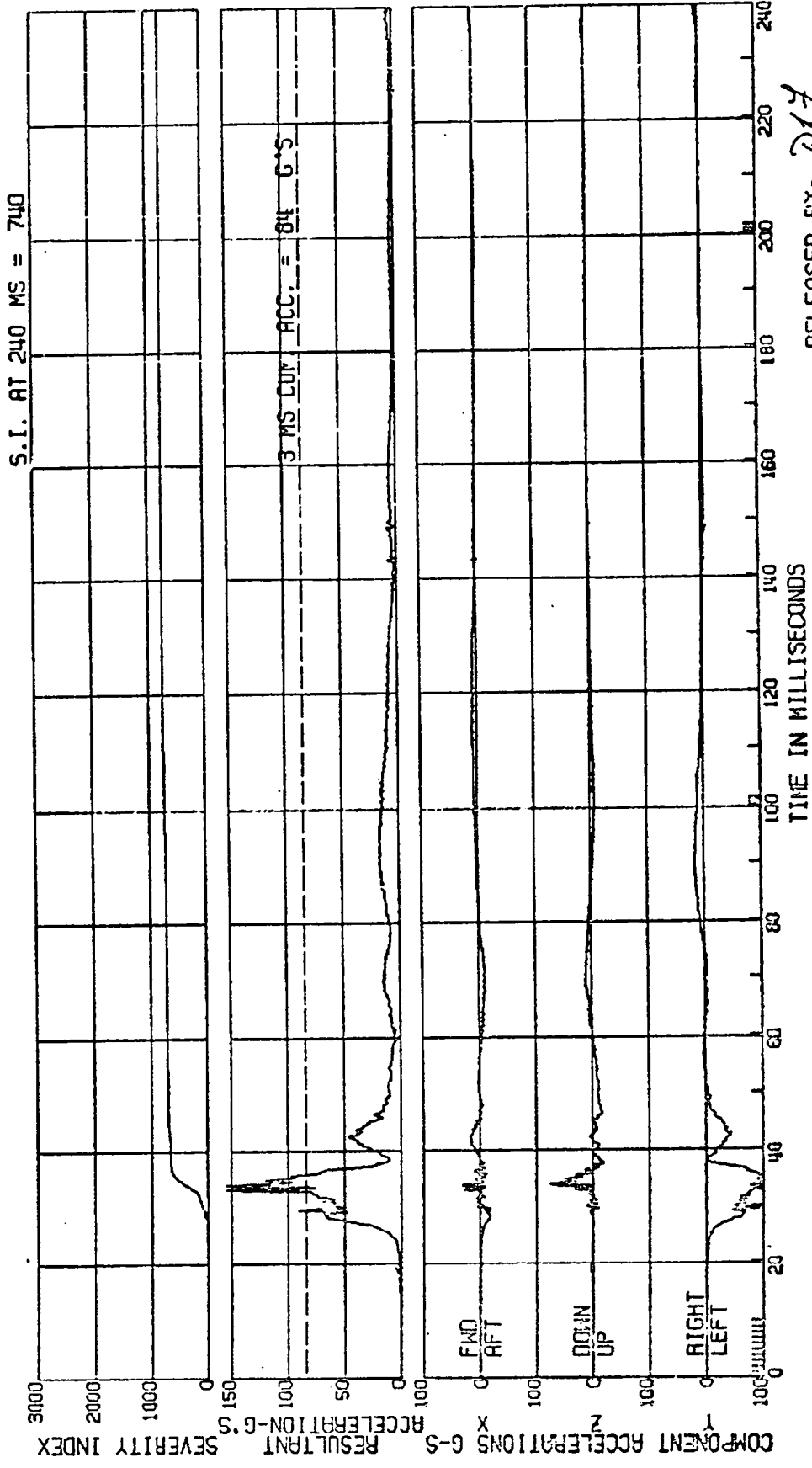
RELEASED BY: *DAT*
 2 PROCESSED 8 APR 85 18:50

C61858 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 62
 3865-075 R FRT PELVIC ACCEL. GM50SI TEST DATE: 04-C4-85
 FB-CPC (STRUCK VEH. CC464 3JC77)
 A-D DATA SAE CLASS 600



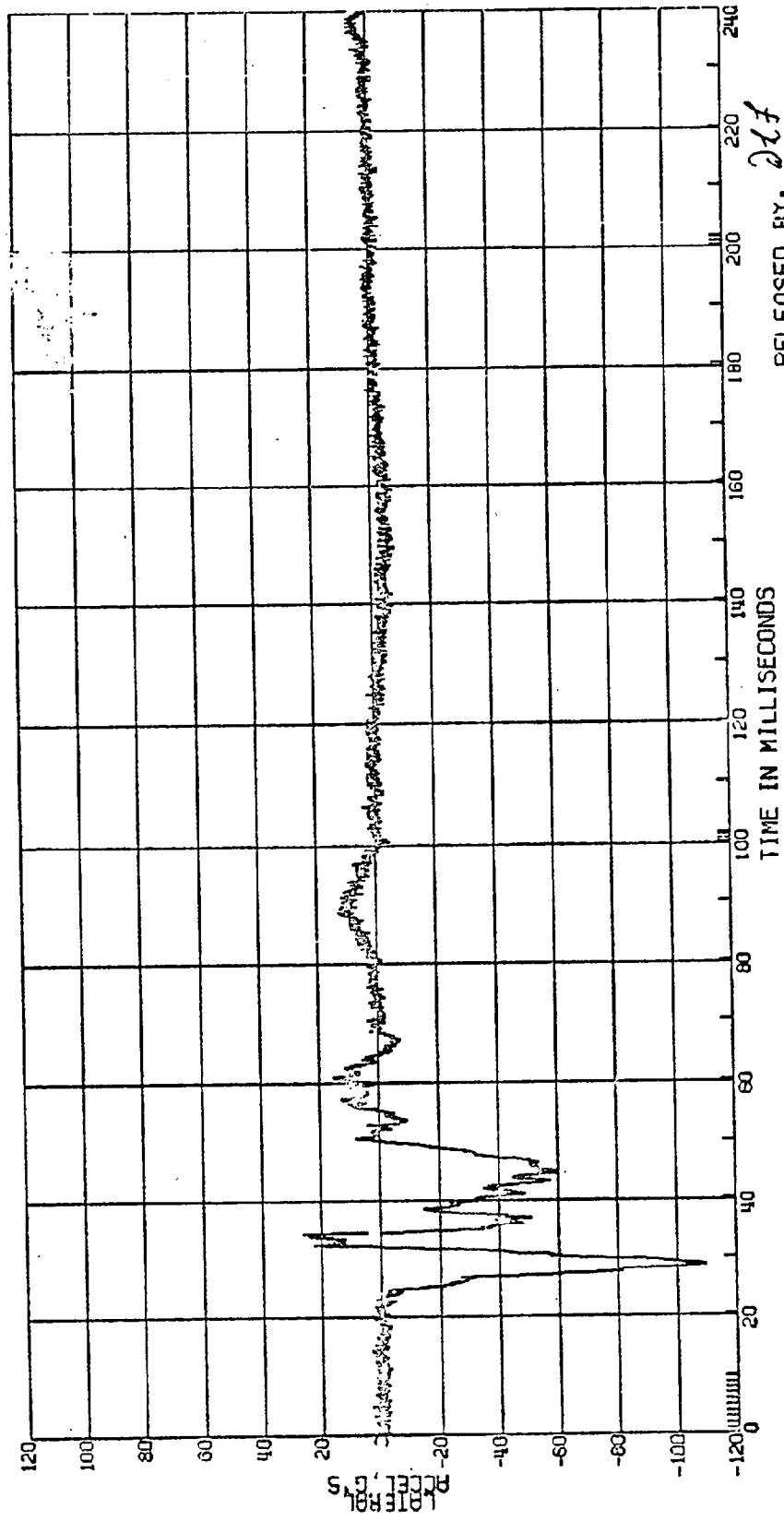
RELEASED BY: *DAF*
 3 PROCESSED 8 APR 85 19:50

C61858 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 63
 3865-075 R FRT LOWER SPINE ACCEL. GM50SI TEST DATE: 04-C4-85
 FB-CPC (STRUCK VEH. CC464 3JC77)
 R-O DATA



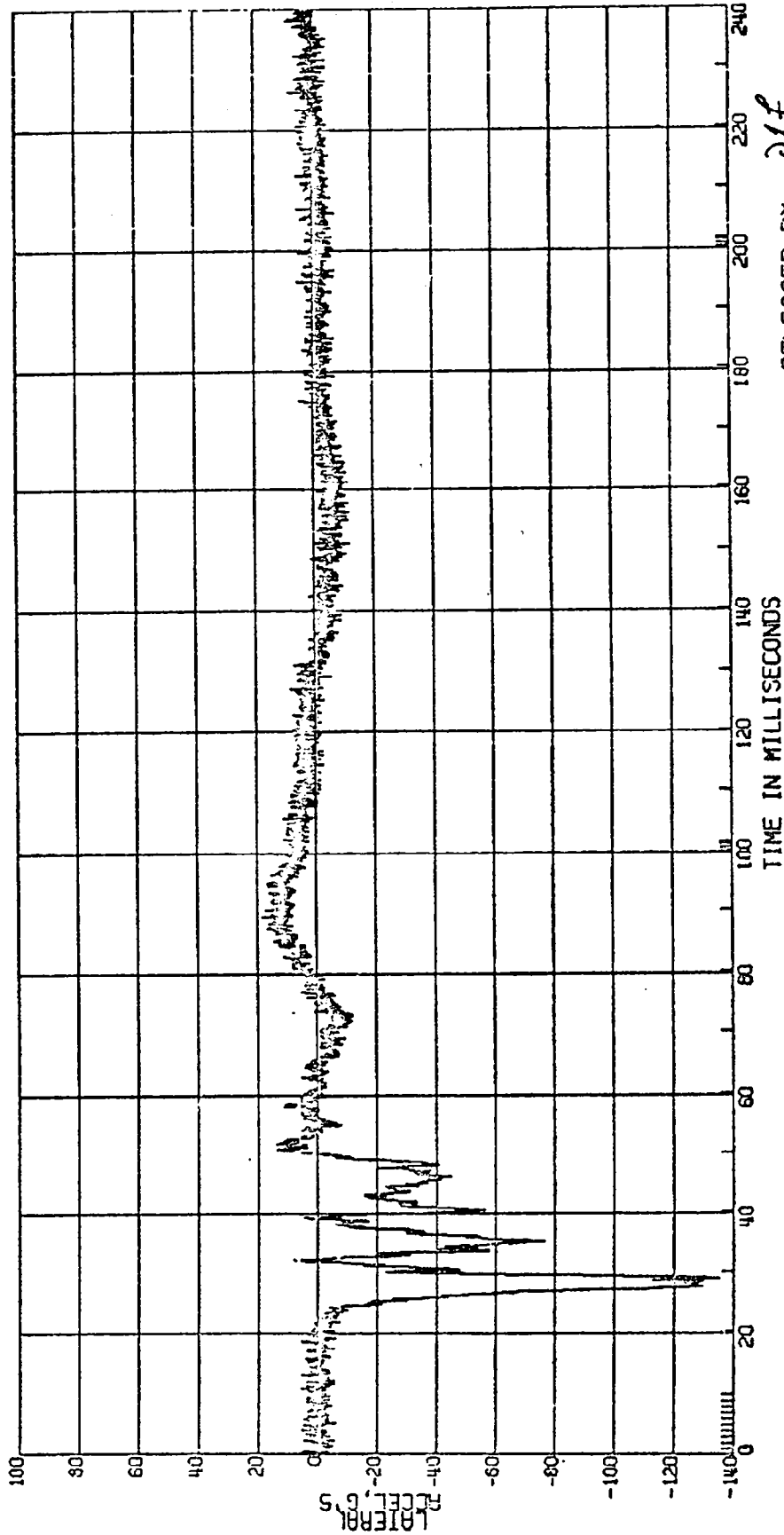
RELEASED BY: *DIA*
 13 PROCESSED 8 APR 85 19:52

C61858 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3 KM/H FIGURE 64
3865-075 R FRT RIGHT UPPER RIB ACCEL. GM50SI TEST DATE: 04-C4-85
FB-CPC (STRUCK VEH. CC464 3JC77)
A-D DATA



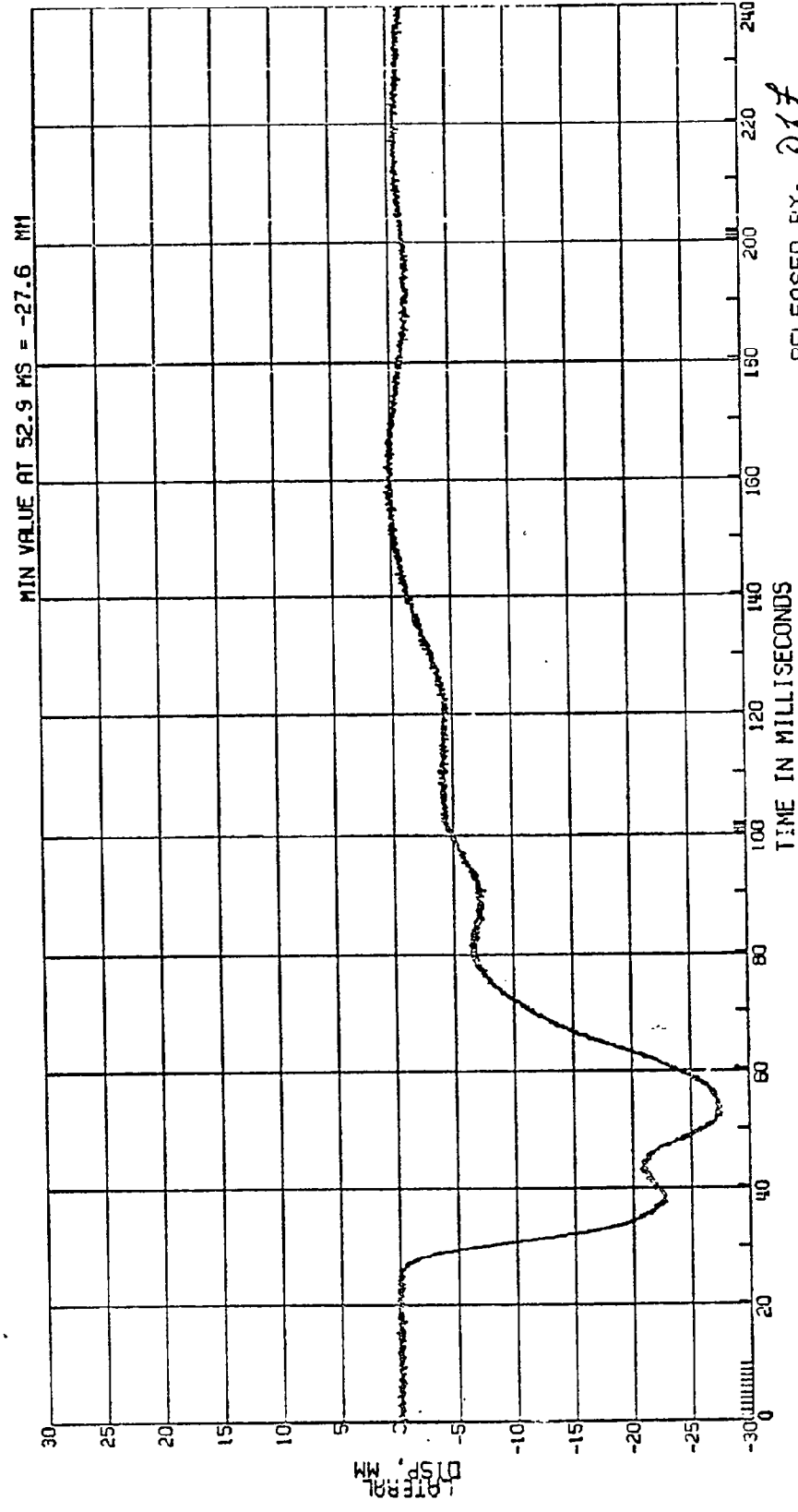
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11 PROCESSED 8 AP 85 1915Z

LB185B HIGH SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 65
 3865-075
 FB-CFC (STRUCK VEH.CC464 3JC77) R FRT RIGHT LOWER RIB ACCEL. GM50SI TEST DATE:04-C4-85
 A-D DATA



RELEASED BY: *dlf*
 12 PROCESSED 8 AP 85 18:00

C61858 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 66
 3865-075
 FB-CPC (STRUCK VEH.CC464 3JC77) R FRT RIGHT UPPER RIB DISP. GMS051 TEST DATE:04-C4-85
 A-D DATA



RELEASED BY: DJF
 9 PROCESSED 8 AP 85 18:52

MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 67

R FRT RIGHT LOWER RIB DISP. CM50SI

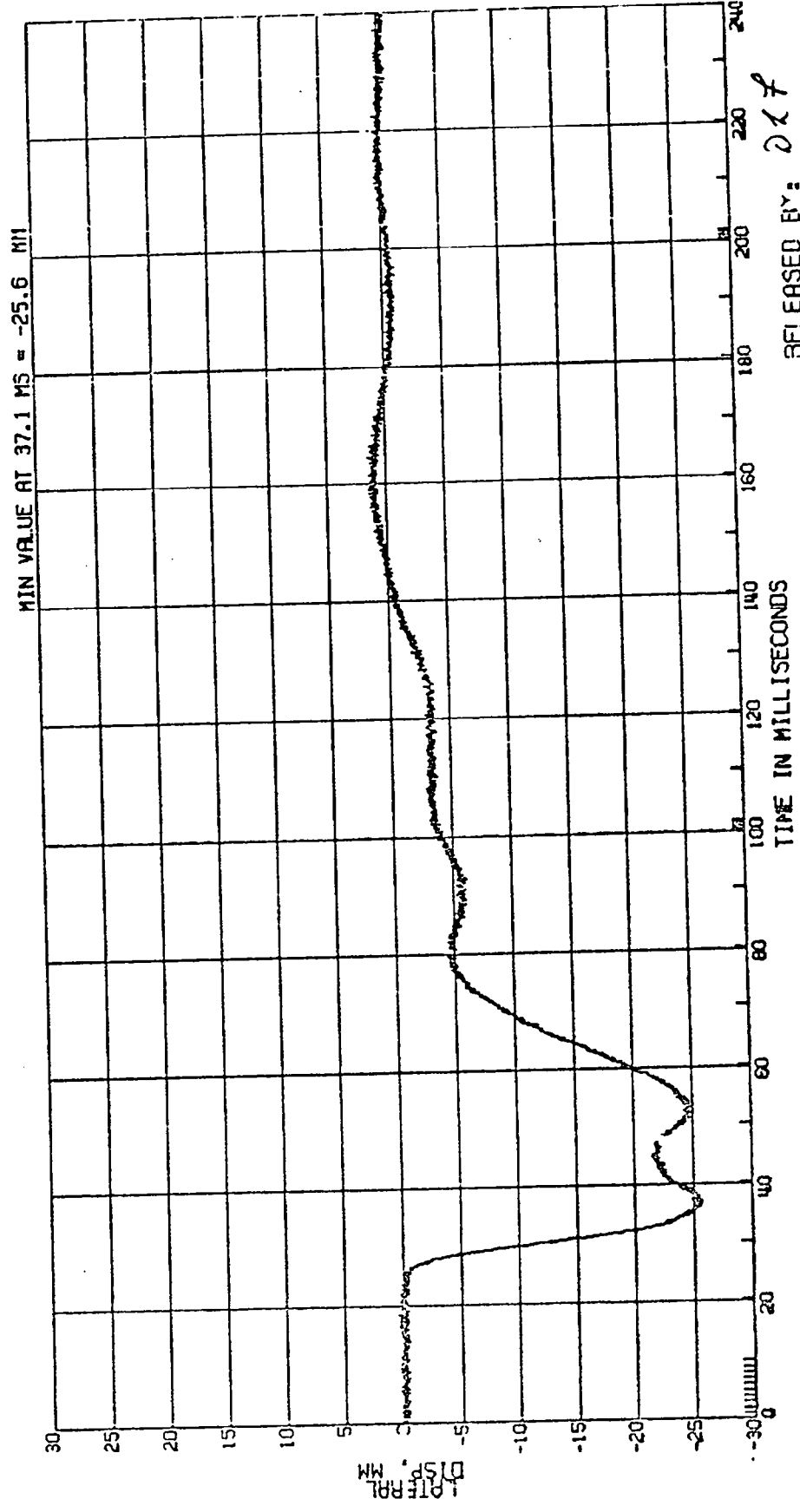
TEST DATE: 04-C4-85.

C61858 RIGHT SIDE IMPACT

3865-C75

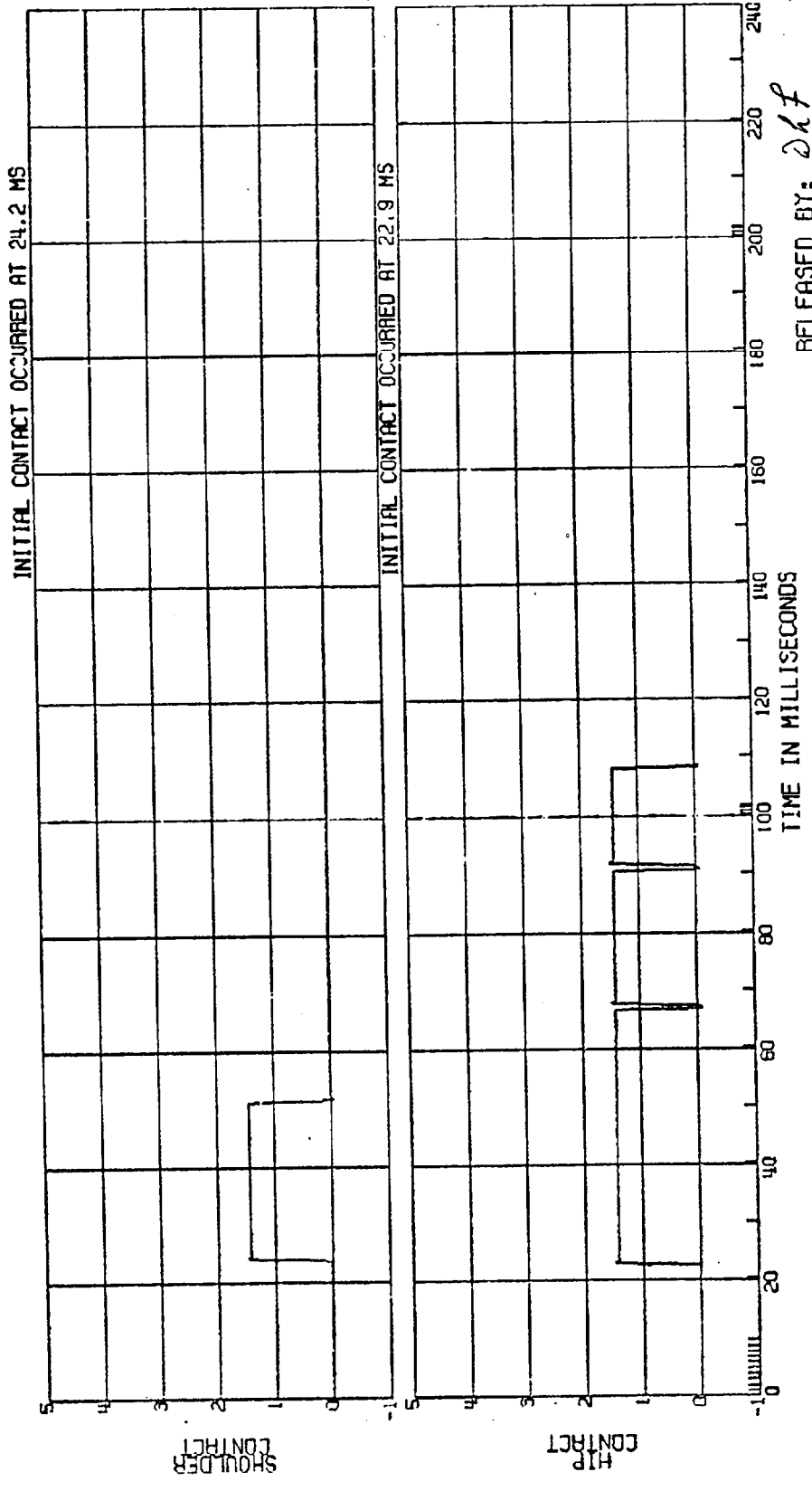
FB-CPC (STRUCK VEH. CC464 3JC77)

A-D DATA



RELEASED BY: DJF
10 PROCESSED 8 APR 85 1945Z

601858 RIGHT SIDE IMPACT MOVING DAMIEN IN PARKED VEHICLE 41.3KM/H FIGURE 60
 3865-075 LATERAL RT FRT DOOR CONTACT TEST DATE: 04-C4-85
 FB-CPC (STUCK VEH. CC464 3JC77)
 A-D DATA



RELEASED BY: *Dkf*
 79 PROCESSED 8 APR 85 20:47

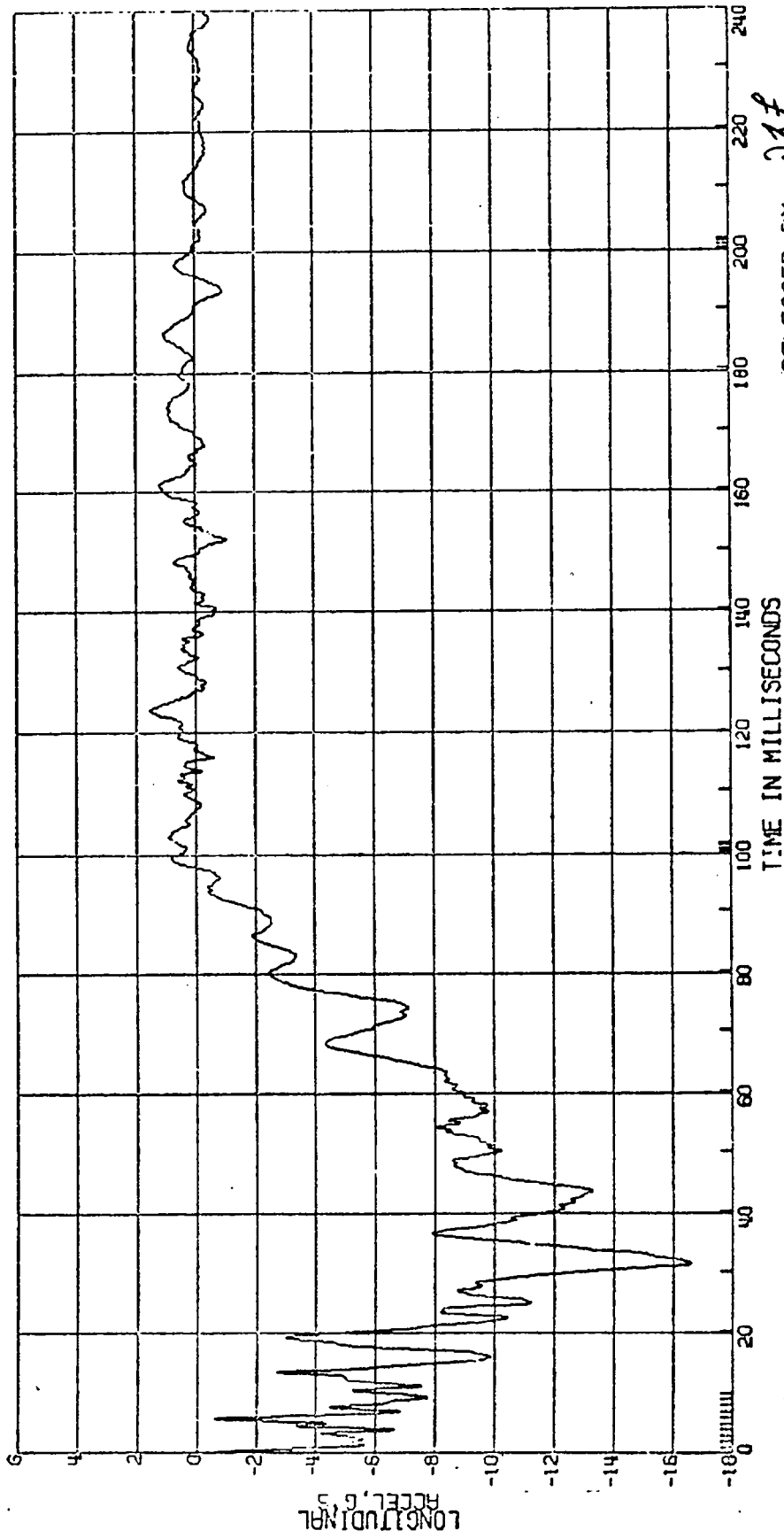
3865-075

FB-CFC (STRIKING NHTSA BARRIER)

A-0' DATA SAE CLASS 60

DR-SIDE STRIKING BARR. FRONT ACCEL.

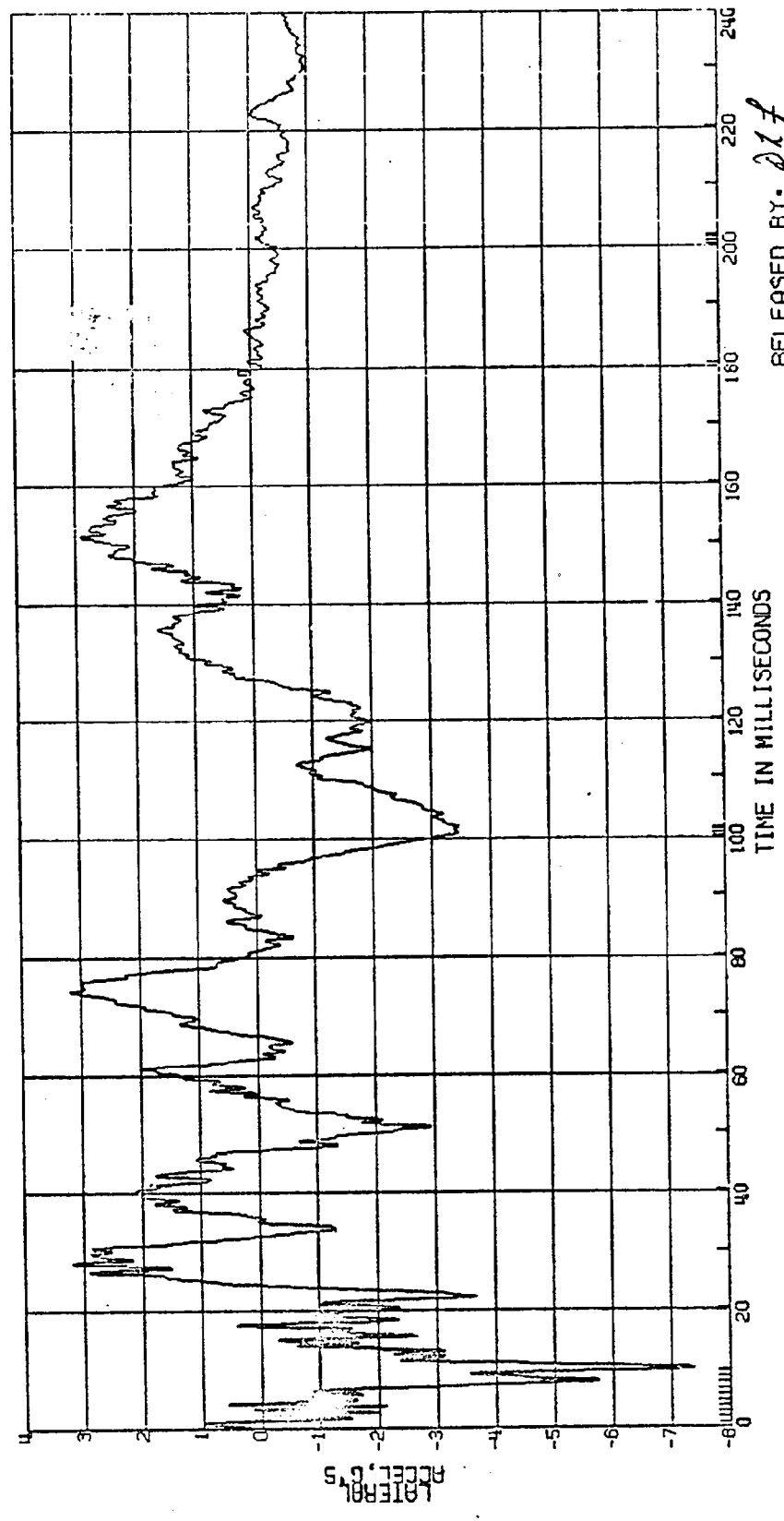
TEST DATE: 04-C4-85



RELEASED BY: *DAF*

1 PROCESSED 8 APR 85 20:01

3865-075 DR-SIDE STRIKING BARR. FRONT ACCEL. TEST DATE: 04-C4-85
FB-CPC (STRIKING NHTSA BARRIER) A-D DATA SAE CLASS 60

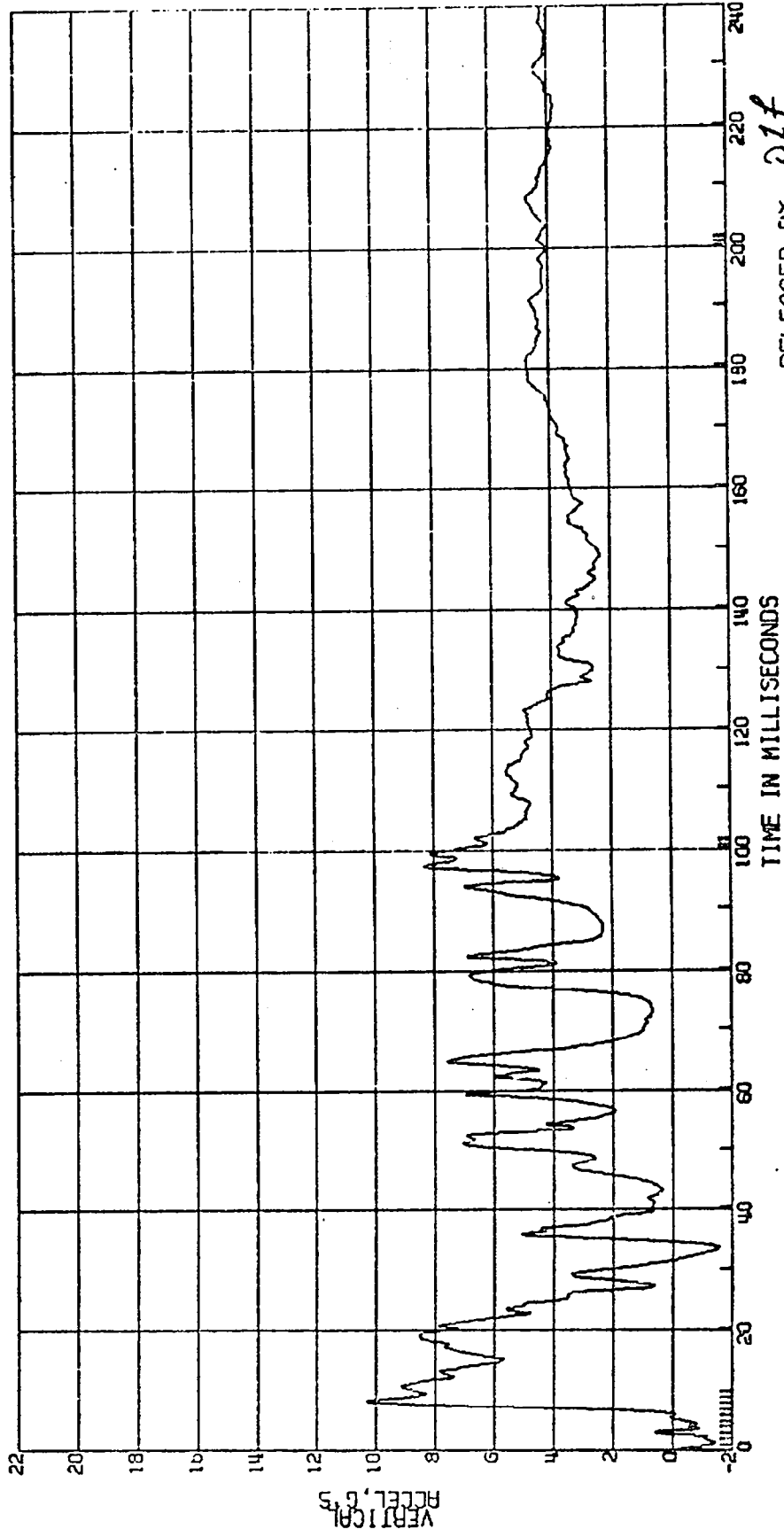


RELEASED BY: *DLF*
4 PROCESSED 8 APR 85 20:02

FB-CPC (STRIKING NHTSA BARRIER)
A-D DATA SAE CLASS 60

DR-SIDE STRIKING BARR. FRONT ACCEL.

TEST DATE: 04-C4-85



RELEASED BY: *Dif*
7 PROCESSED 8 APR 85 20:02

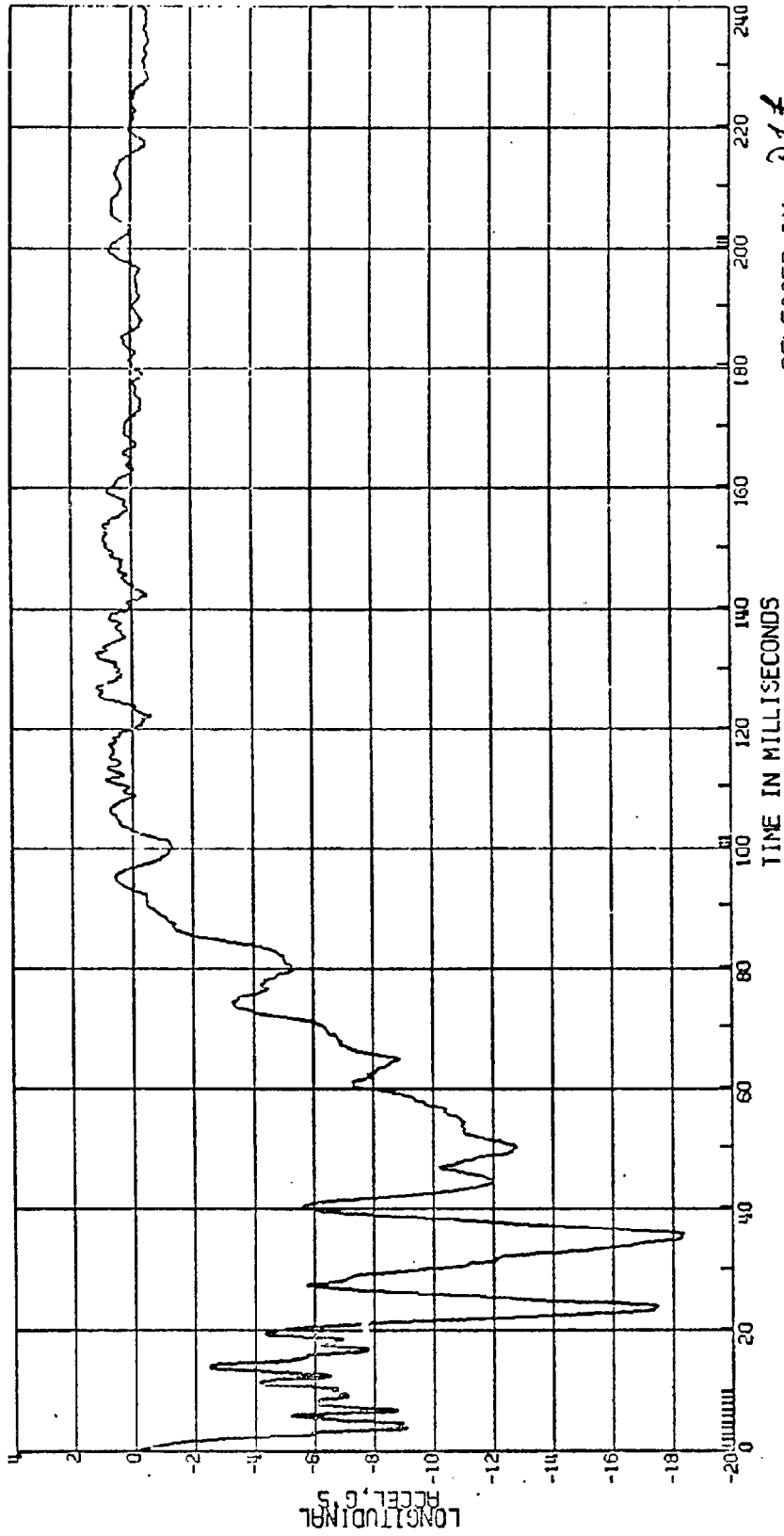
0003-0770

FB-CPC (STRIKING NHTSA BARRIER)

A-D DATA SAE CLASS 60

PASS-SIDE STRIKING BARR. FRONT ACCEL.

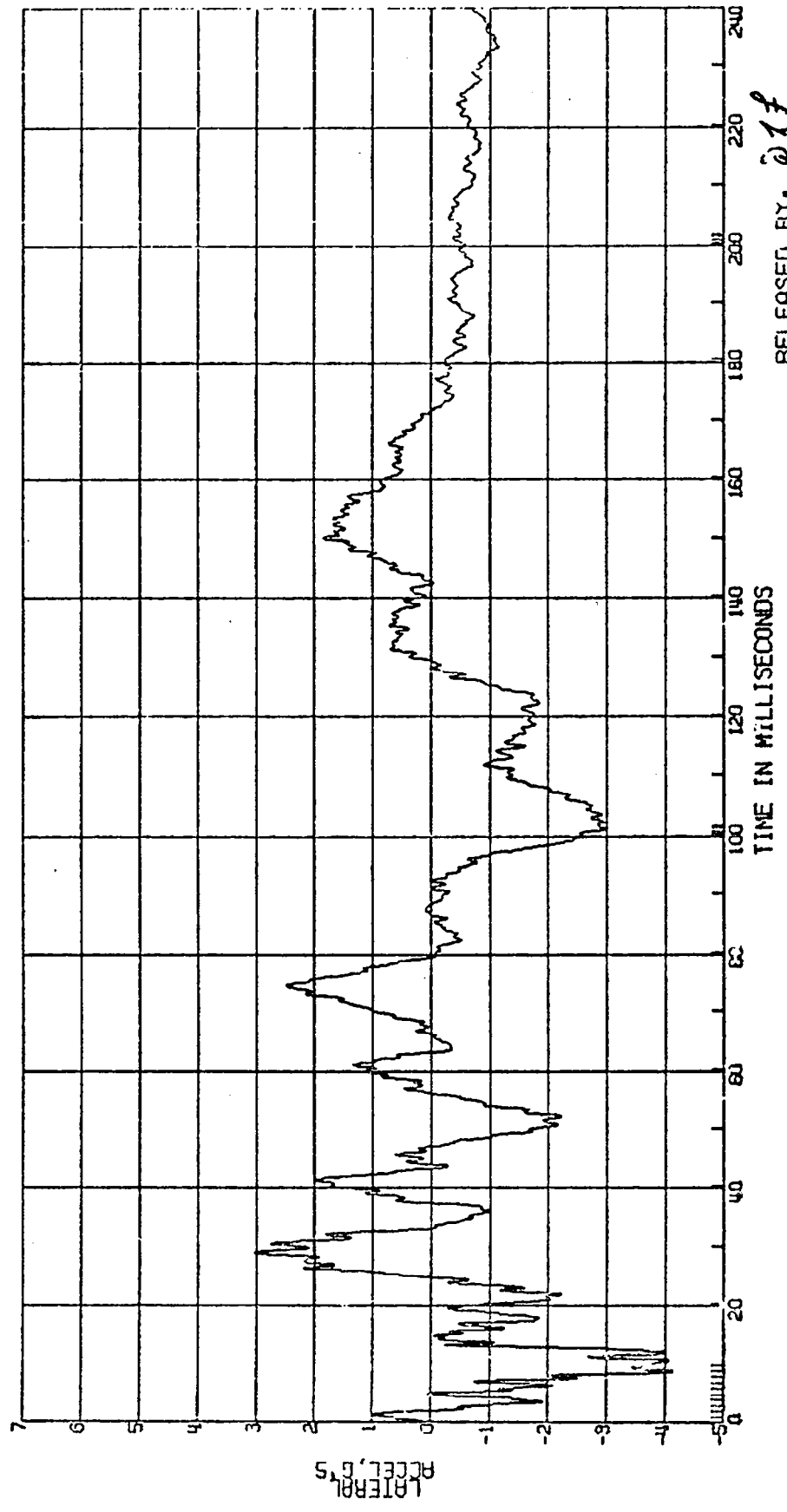
TEST DATE: 04-04-85



RELEASED BY: *DJF*

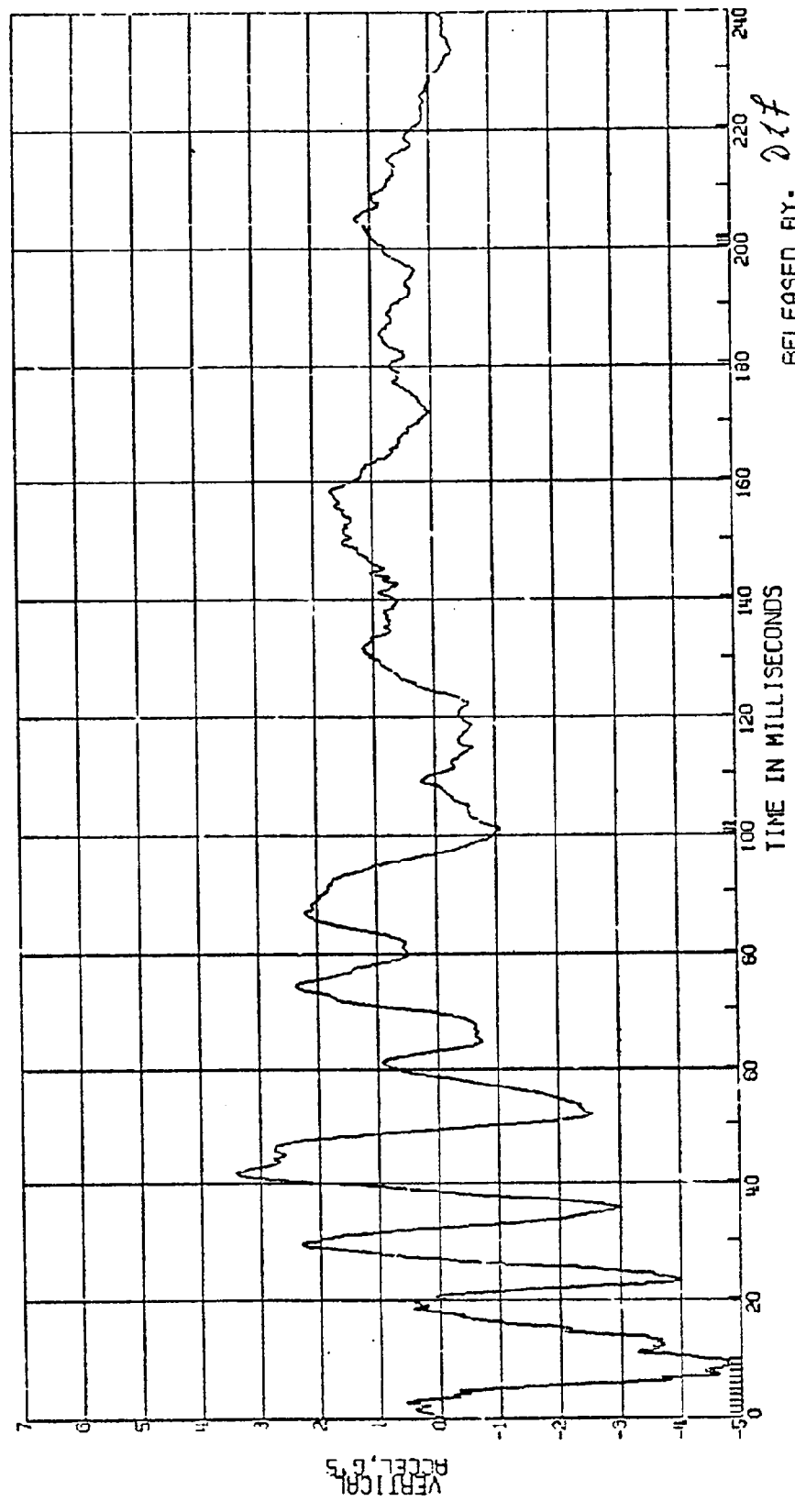
10 PROCESSED 8 AP 85 20:04

FB-CPC (STRIKING NHTSA BARRIER) FWD-SIDE IMPACTING BHM. FRONI HUEL. TEST DATE: 04-C4-85
A-D DATA SAE CLASS 60



RELEASED BY: *WTF*
13 PROCESSED 8 APR 85 20:03

C6185A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 14
3865-075 PASS-SIDE STRIKING BARR. FRONT ACCEL. TEST DATE:04-C4-85
FB-CPC (STRIKING NHTSA BARRIER)
A-C DATA SAE CLASS 60



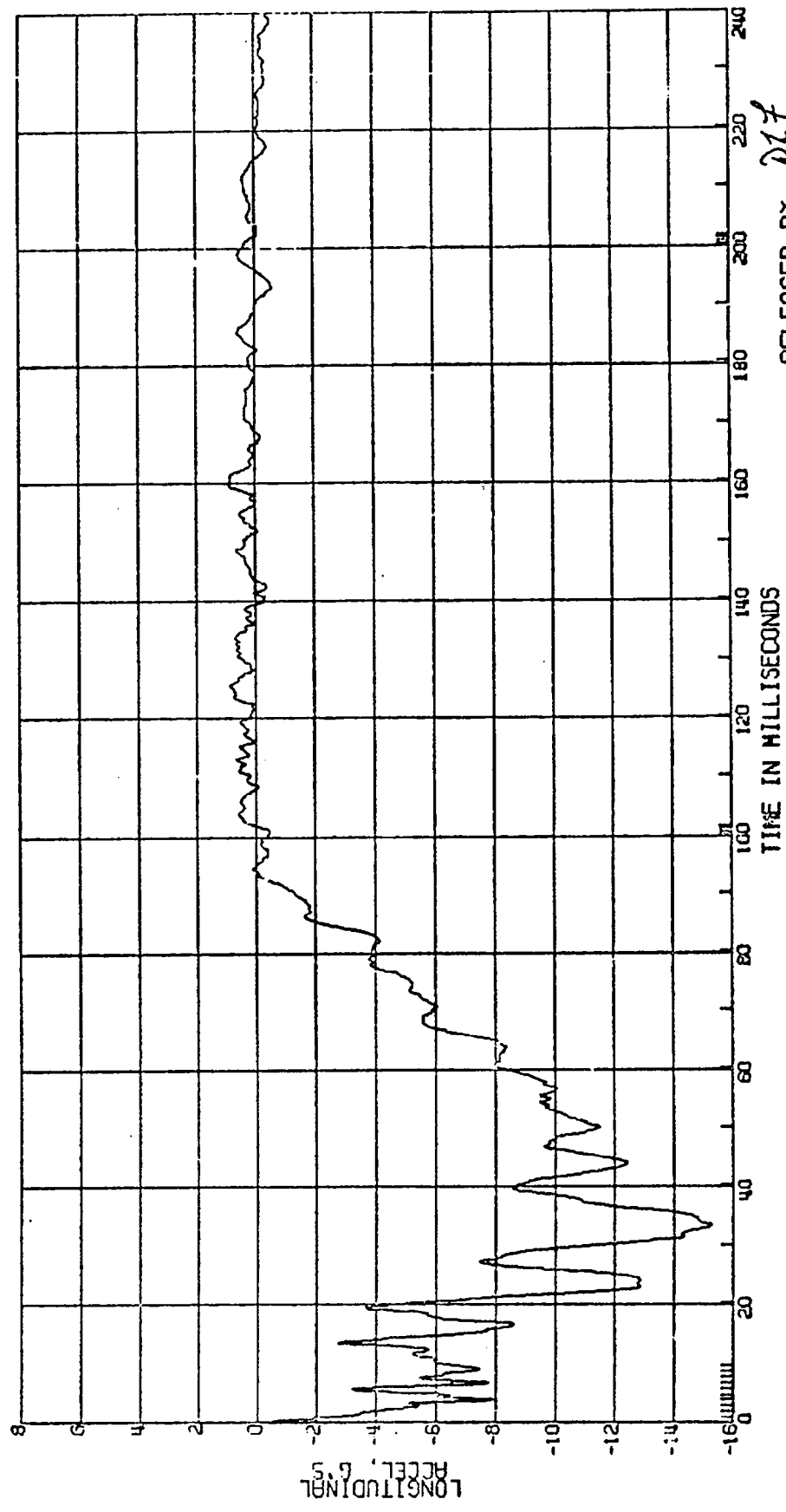
RELEASED BY: *Dif*
16 PROCESSED 8 AP 85 20:03

C6185A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 75
3865-075
FB-CPC (STRIKING NHTSA BARRIER)
A-D DATA SAE CLASS 60

TEST DATE: 04-C4-85

AVERAGED DRIVER & PASSENGER SIDES

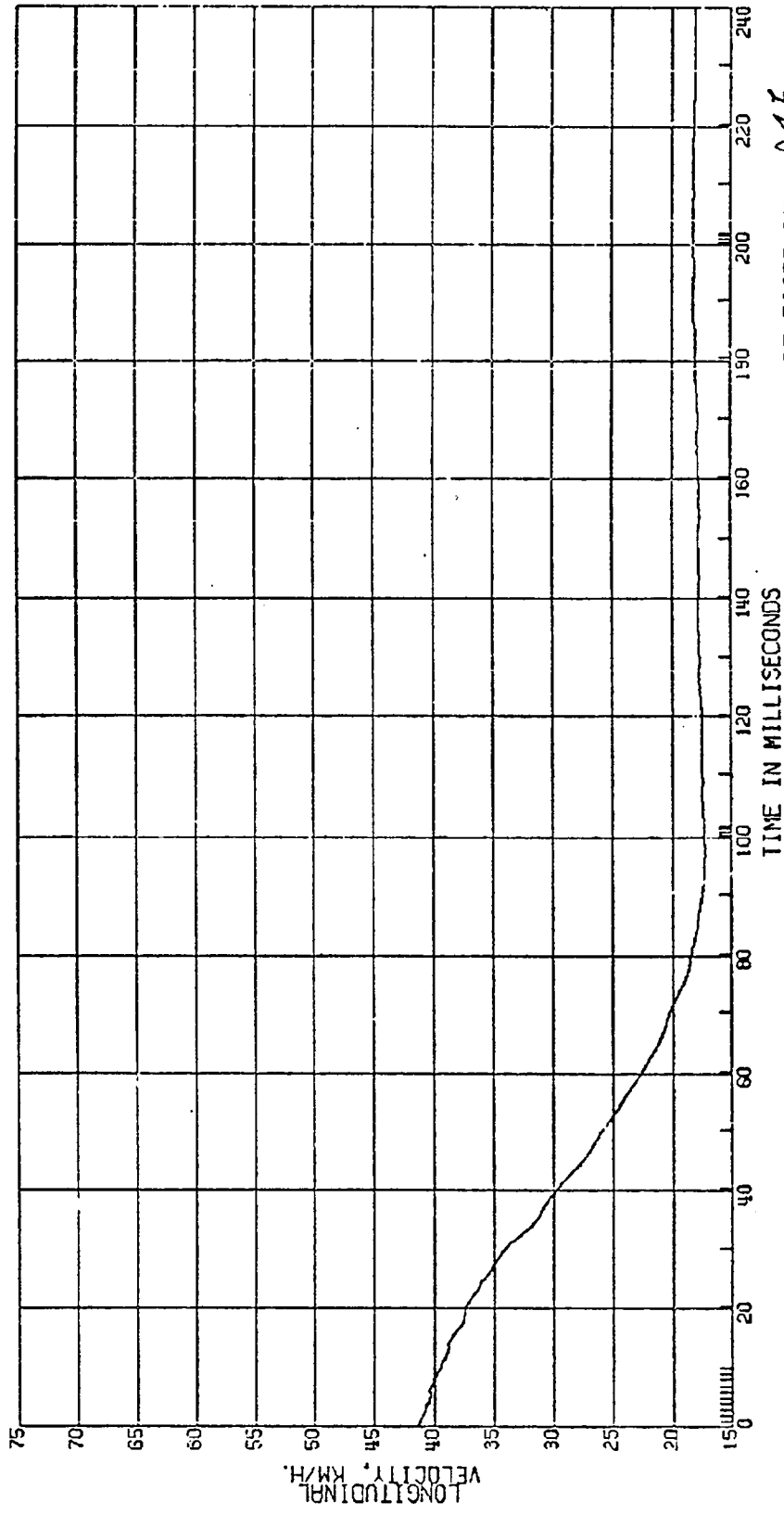
AVERAGED STRIKING BARR-FRONT ACCEL



217

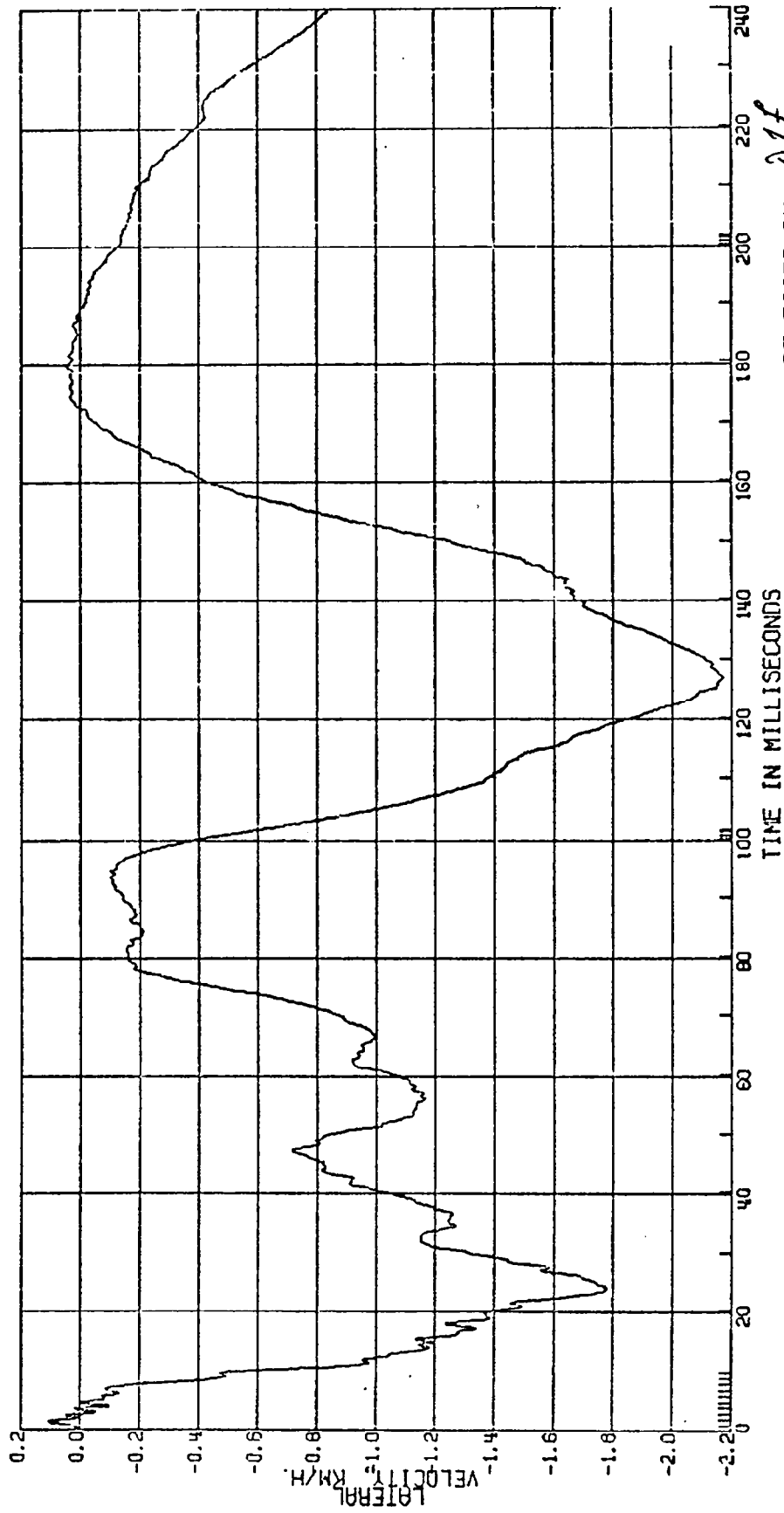
RELEASED BY: 16 APR 85 2045

C6185A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 76
3865-075
FB-CPC (STRIKING NHTSA BARRIER) COMPUTED STRIKING BARR-FRT VELOCITY TEST DATE: 04-C4-85
A-0 DATA SAE CLASS 180 (1ST INTEGRAL DR-SIDE ACCELERATION)



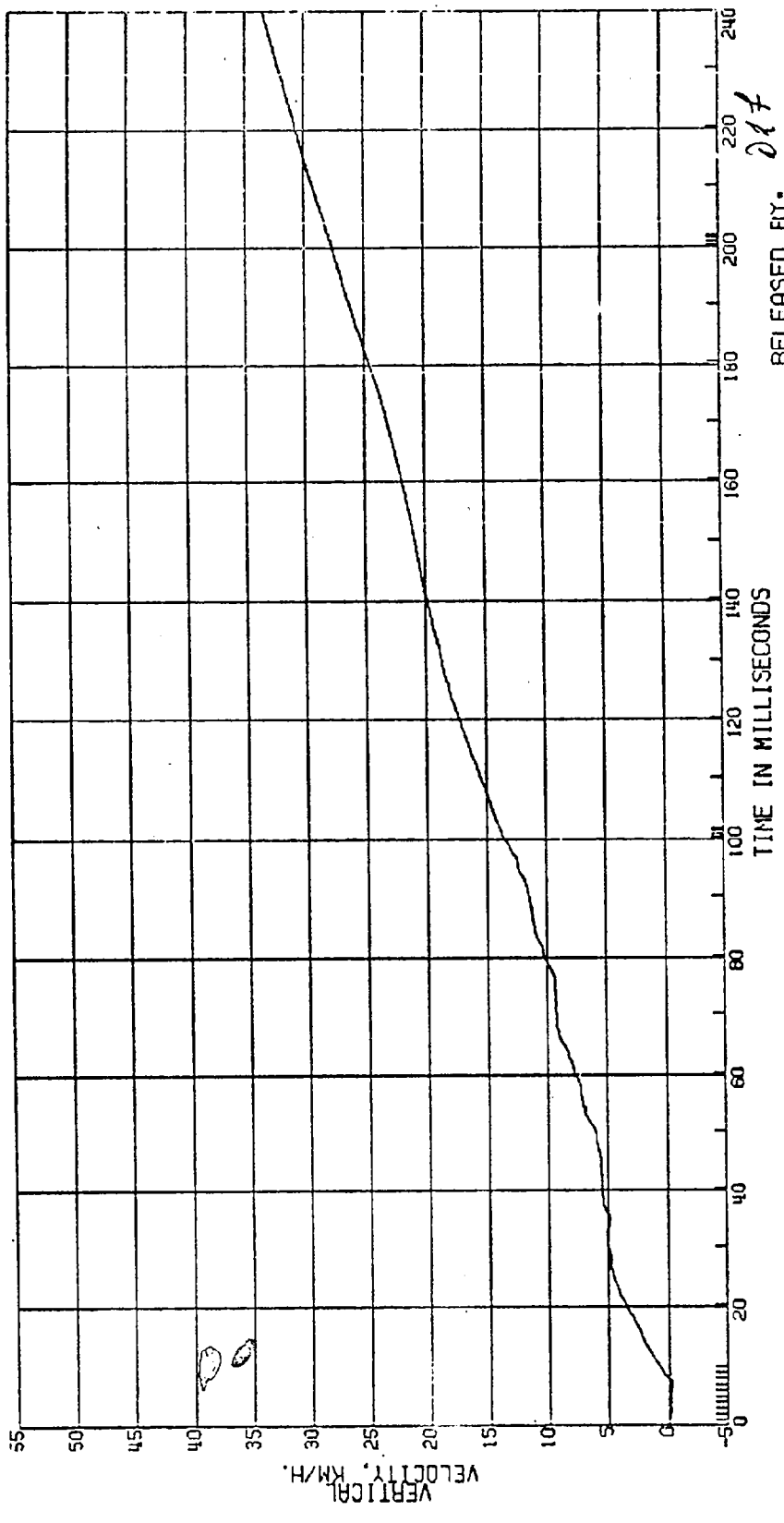
RELEASED BY: *DTF*
2 PROCESSED 8 APR 85 20101

C6185A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 77
 3865-075
 FB-CFC (STRIKING NHTSA BARRIER) COMPUTED STRIKING BARR-FRT VELOCITY
 A-D DATA SAE CLASS 180 (1ST INTEGRAL DR-SIDE ACCELERATION) TEST DATE: 04-C4-85



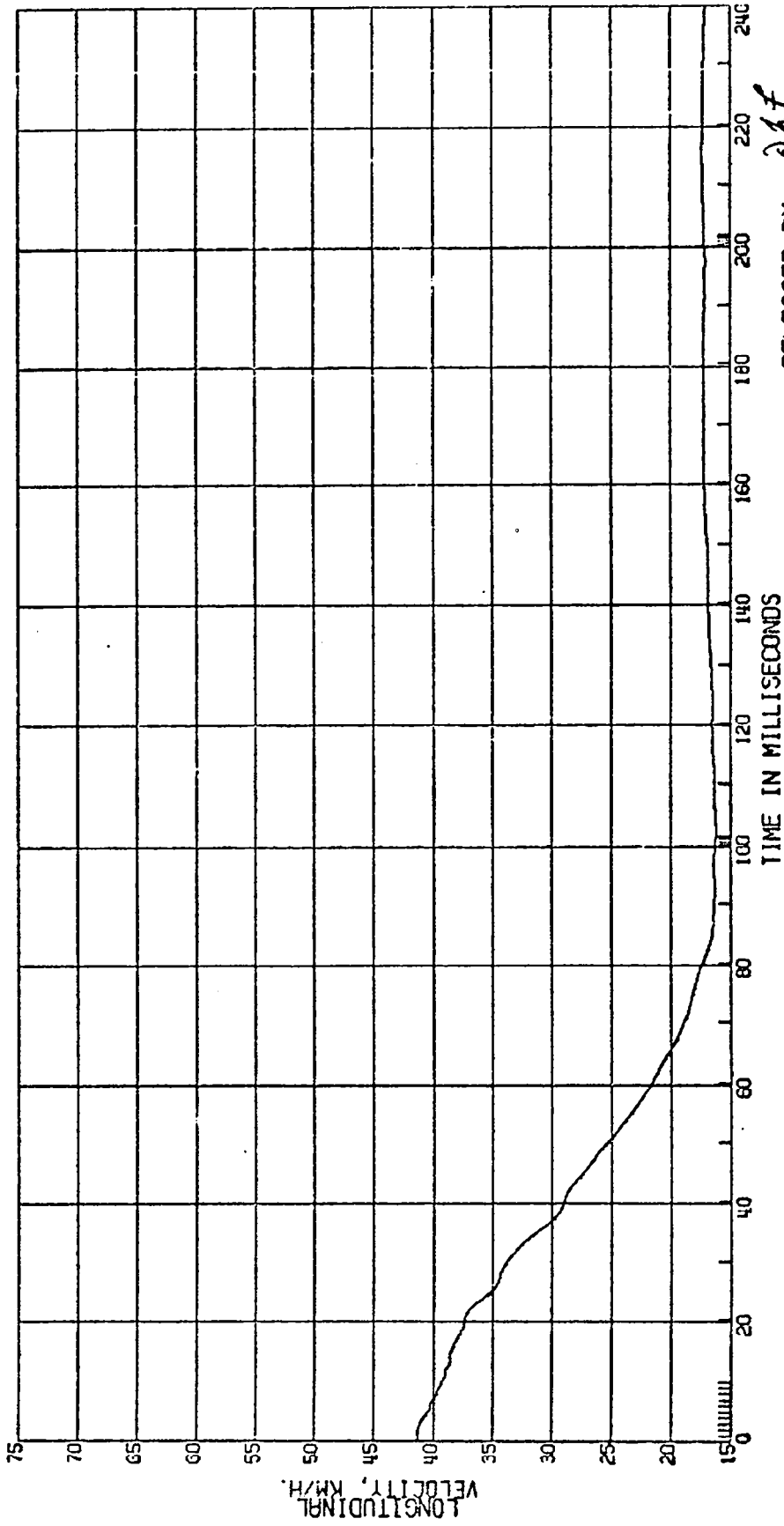
RELEASED BY: *DIF*
 5 PROCESSED 8 APR 85 20:02

C6185A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 7δ
 3865-075 FB-CPC (STRIKING NHTSA BARRIER) COMPUTED STRIKING BARR-FRT VELOCITY TEST DATE: 04-C4-85
 A-D DATA SAE CLASS 180 (1ST INTEGRAL DR-SIDE ACCELERATION)



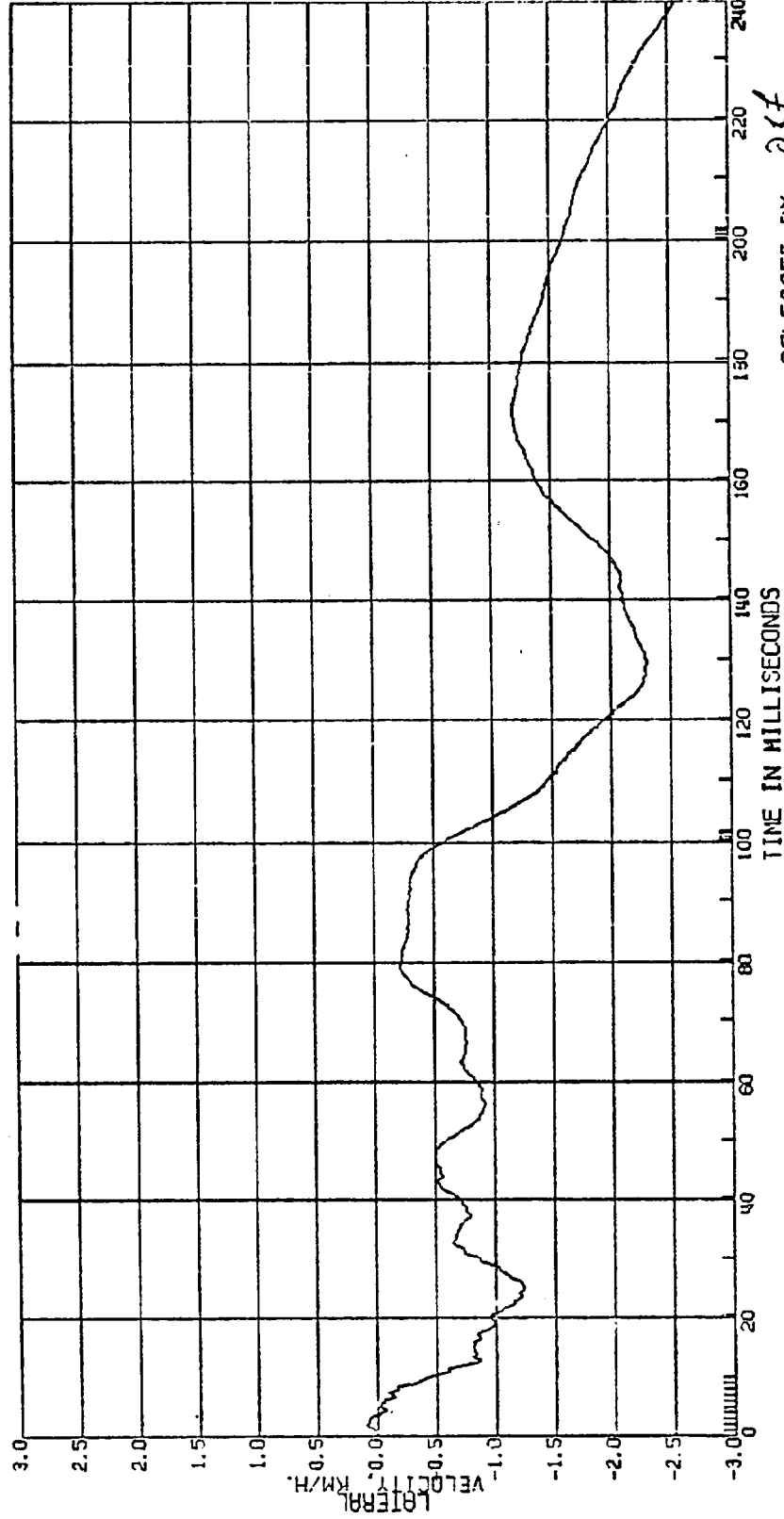
RELEASED BY: *DAF*
 8 PROCESSED 8 APR 85 20:02

3865-075
 FB-CPC (STRIKING NHTSA BARRIER)
 A-D DATA SAE CLASS 180
 MOVING BARRIER IN FORWARD VELOCITY 41.5KM/H FIGURE 77
 COMPUTED STRIKING BARR-FRT VELOCITY
 (1ST INTEGRAL PASS-SIDE ACCELERATION)
 TEST DATE: 04-C4-85



RELEASED BY: *DAF*
 11 PROCESSED 8 APR 85 20:03

C6185A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 8°
 3855-075 COMPUTED STRIKING BARR-FRT VELOCITY
 FB-CPC (STRIKING NHTSA BARRIER) TEST DATE: 04-C4-85
 A-0 DATA SAE CLASS 180 (1ST INTEGRAL PASS-SIDE ACCELERATION)

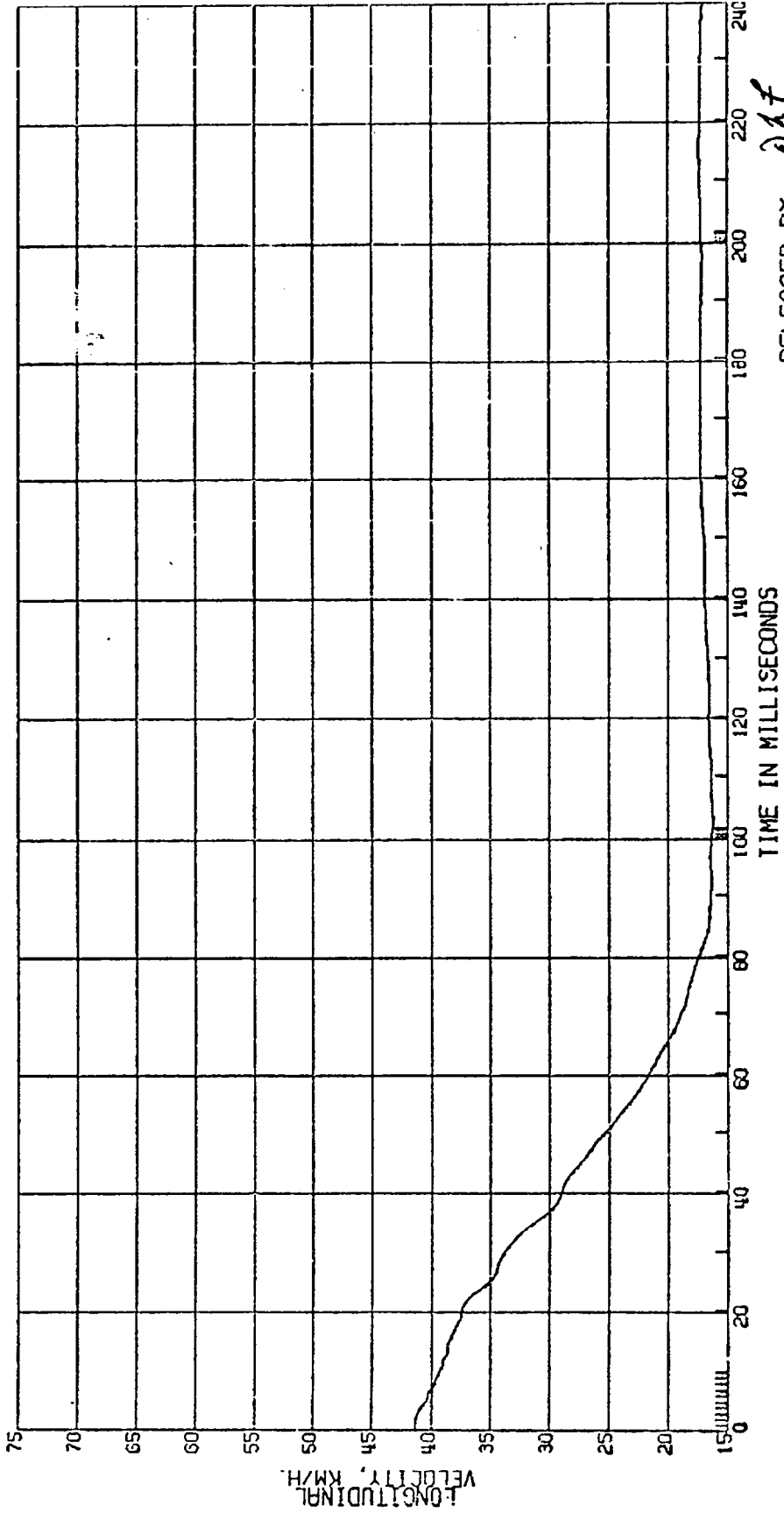


RELEASED BY: *DLF*
 14 PROCESSED 8 AP 85 2010A

3865-075
FB-CPC (STRIKING NHTSA BARRIER)
A-D DATA SAE CLASS 180

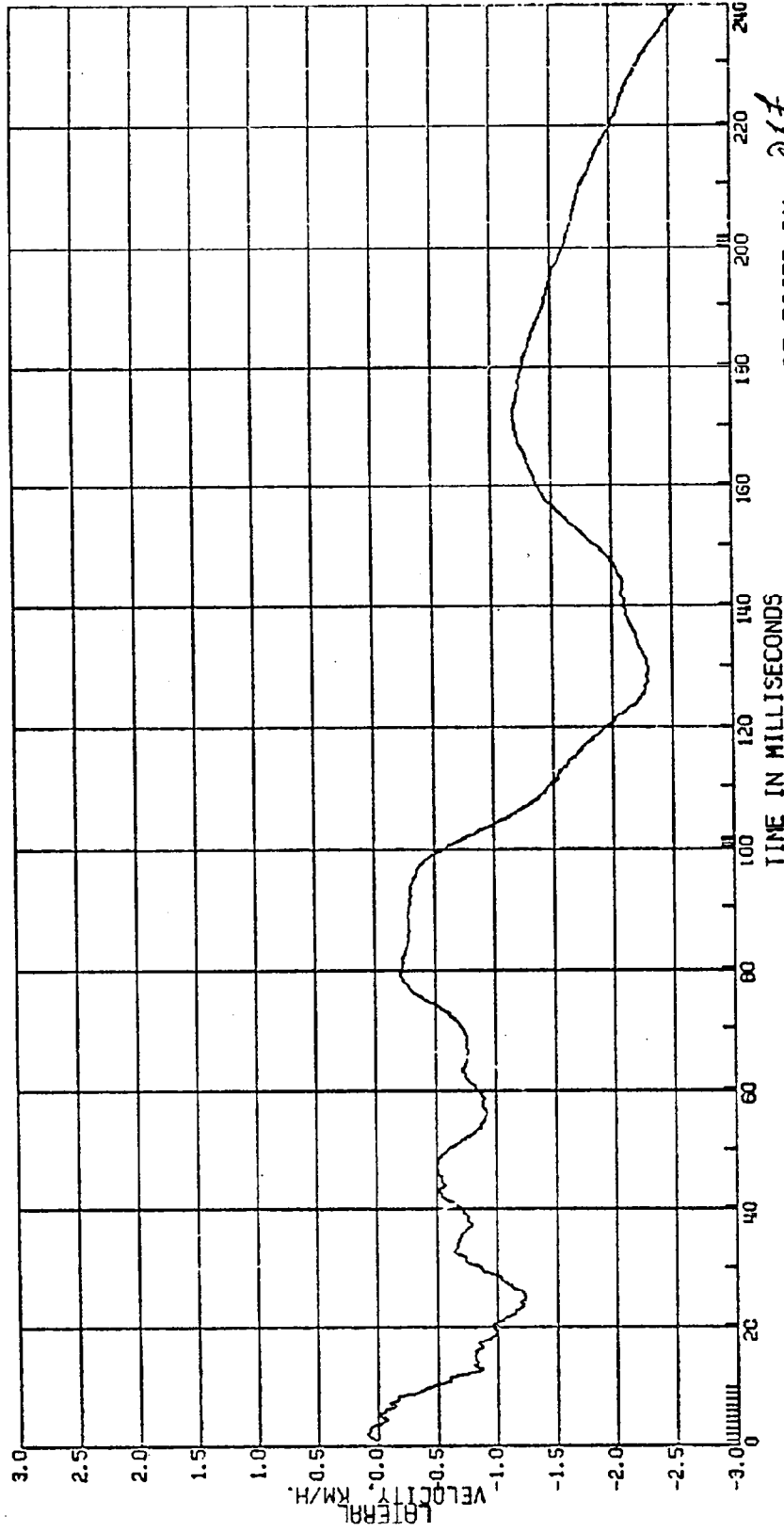
COMPUTED STRIKING BARR-FRT VELOCITY
(1ST INTEGRAL PASS-SIDE ACCELERATION)

TEST DATE: 04-C4-85



RELEASED BY: *DAF*
11 PROCESSED 8 APR 85 20:03

U6185A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 70
3865-075 COMPUTED STRIKING BARR-FRT VELOCITY TEST DATE:04-C4-85
FB-CPC (STRIKING NHTSA BARRIER)
A-D DATA SAE CLASS 180 (1ST INTEGRAL PASS-SIDE ACCELERATION)



RELEASED BY: *217*
14 PROCESSED 8 APR 85 20:03

3865-075

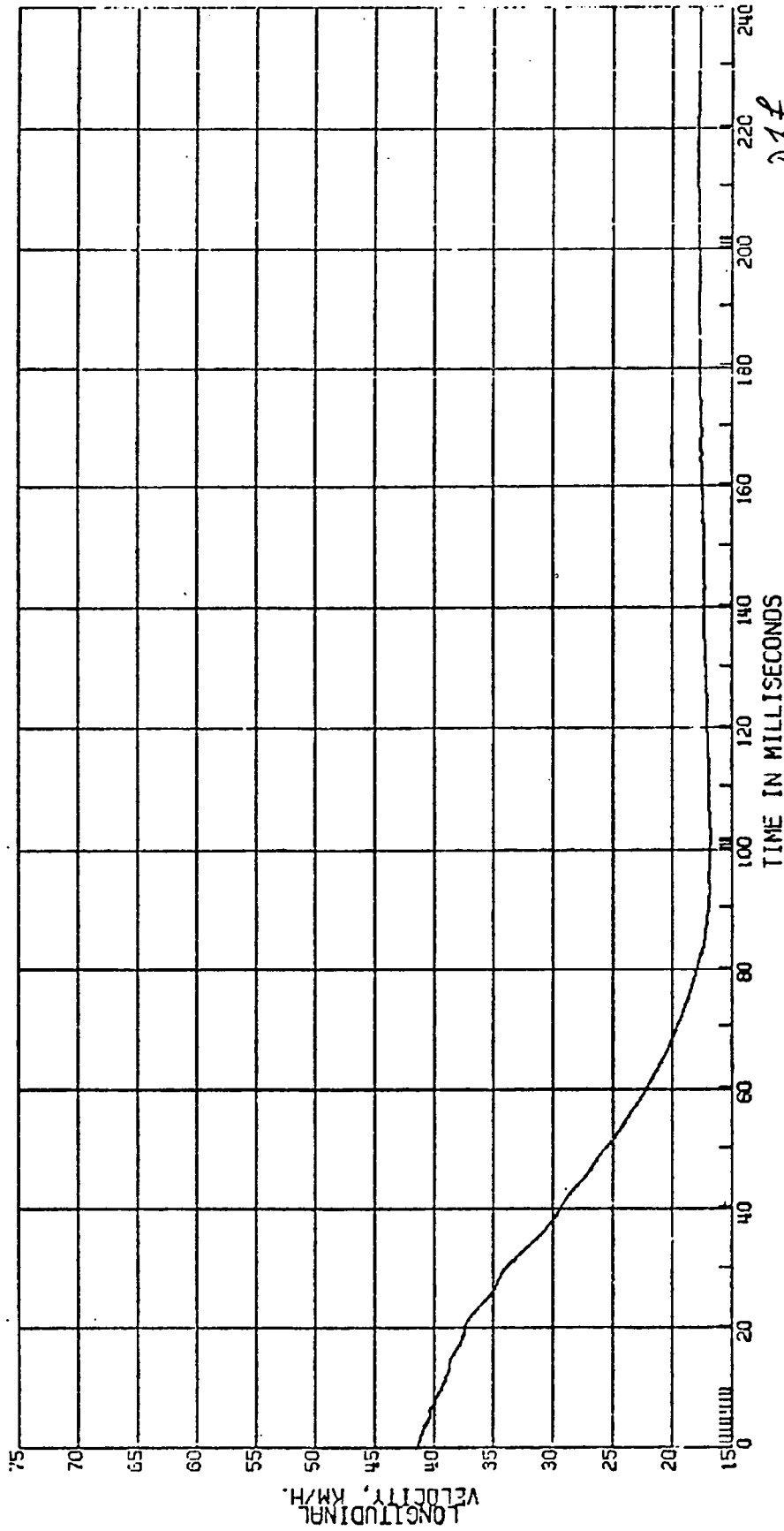
FB-CPC (STRIKING NHTSA BARRIER)

A-D DATA SAE CLASS 180

COMPUTED STRIKING BARR-FRT VELOCITY

(1ST INTEGRAL AVERAGED ACCELERATION)

TEST DATE: 04-C4-65

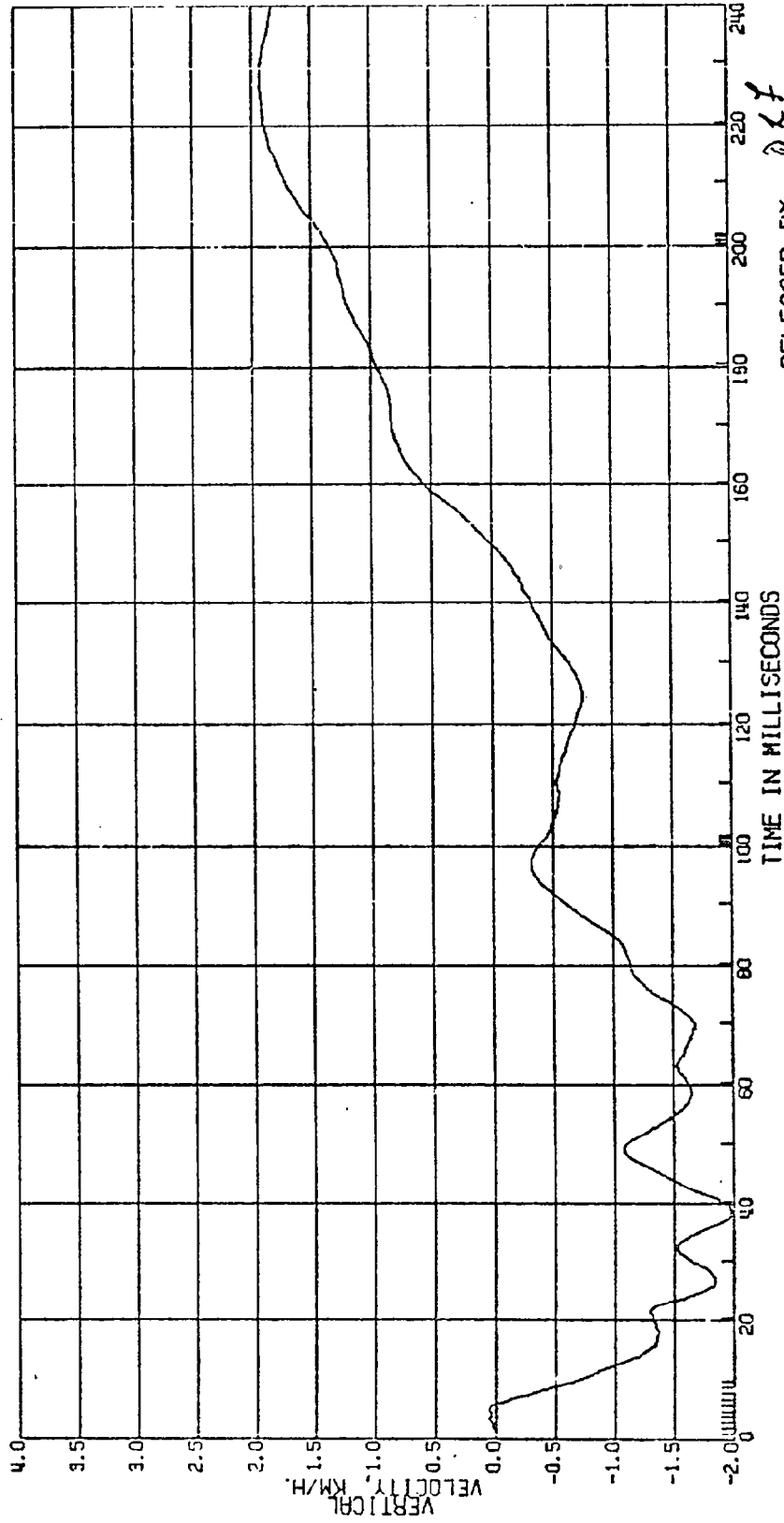


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20 PROCESSED 8 AP 65 2010

3805-U/S
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R-3 DATA SAE CLASS 180

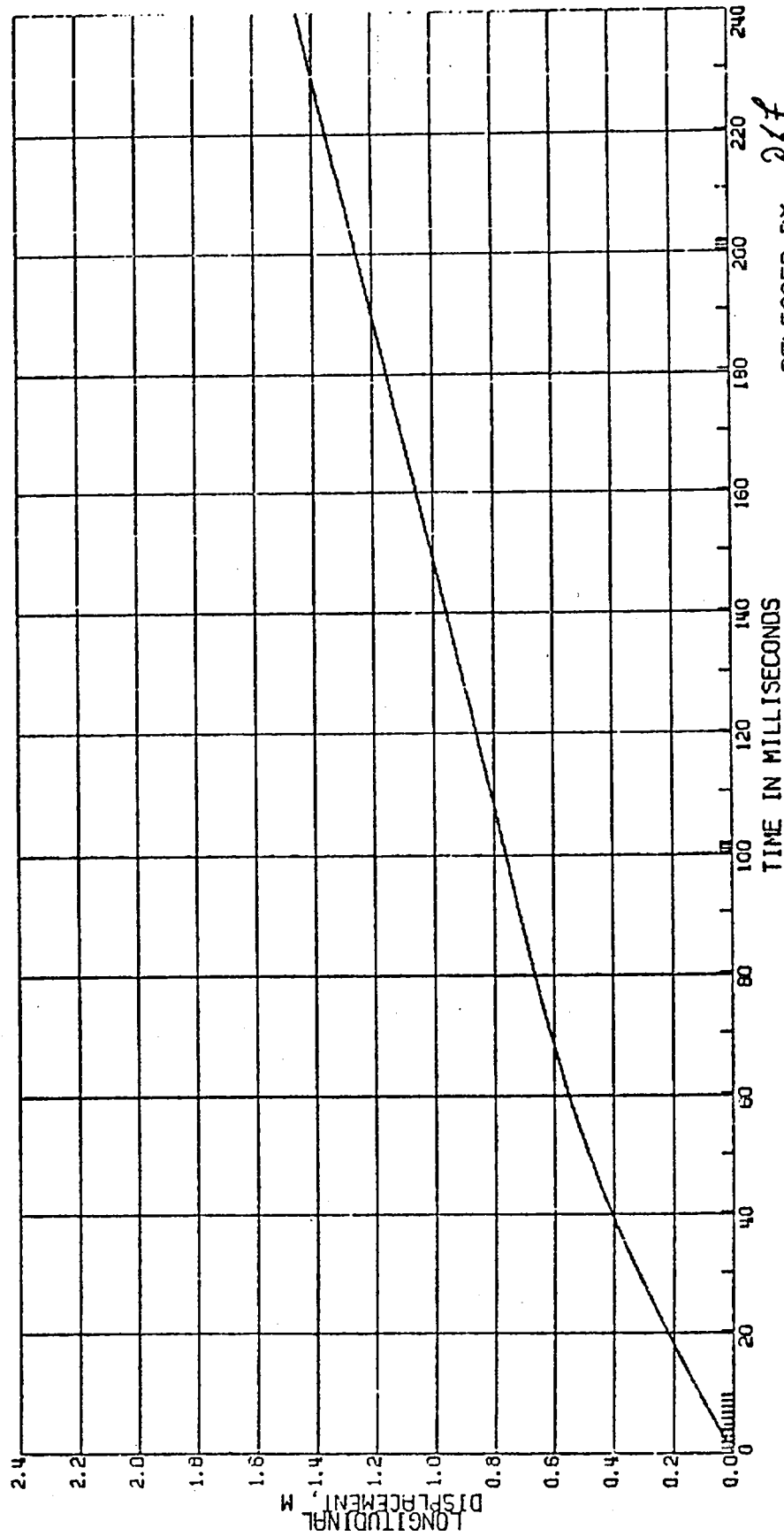
COMPUTED STRIKING BARR-FRT VELOCITY
(1ST INTEGRAL PASS-SIDE ACCELERATION)

TEST DATE: 04-C4-85



RELEASED BY: *DLF*
17 PROCESSED 8 APR 85 20:08

FB-CPC (STRIKING NHTSA BARRIER) TEST DATE: 04-C4-85
A-0 DATA SAE CLASS 180 COMPUTED STRIKING BARR-FRT DISPLACEMENT
(2ND INTEGRAL DR-SIDE ACCELERATION)

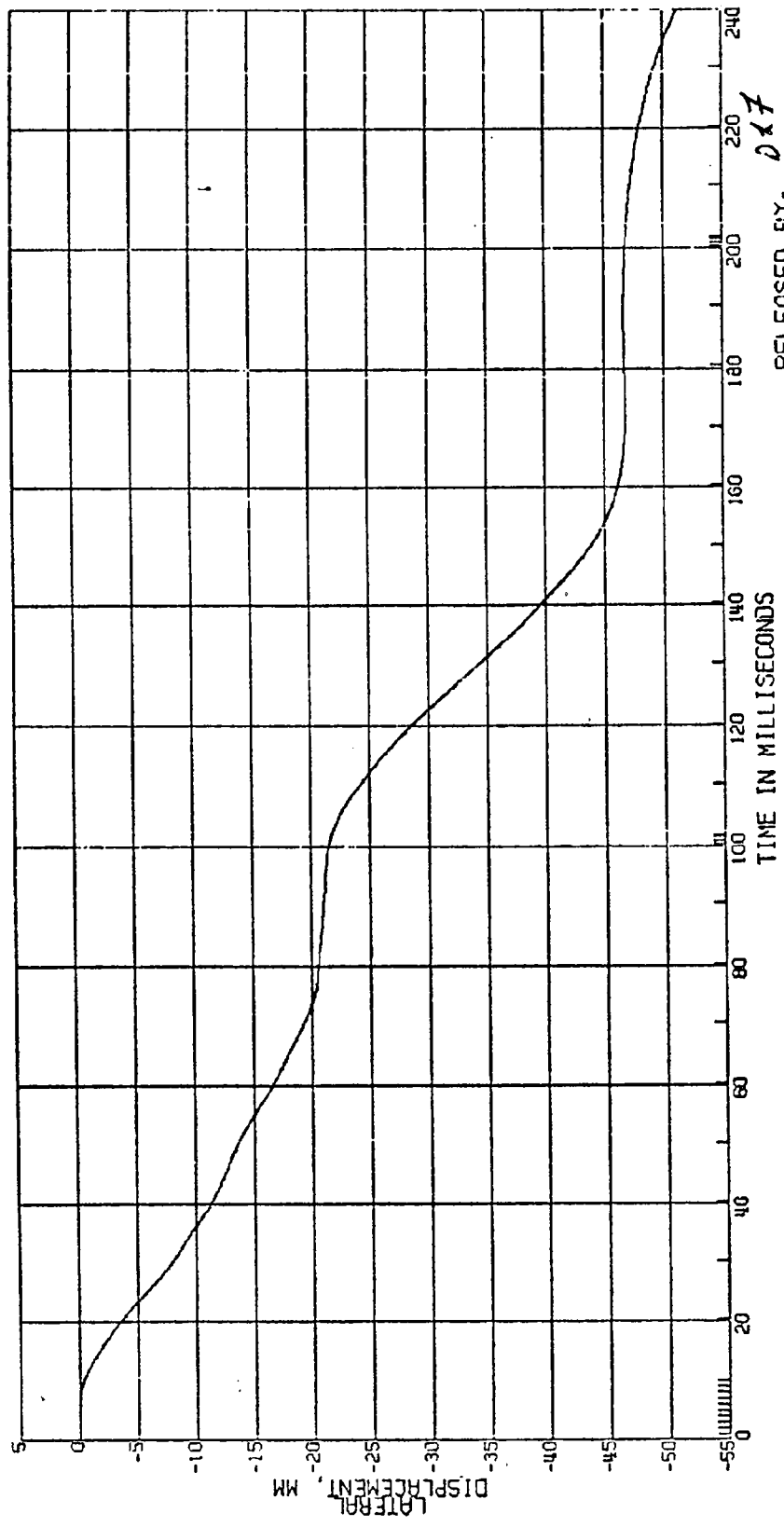


RELEASED BY: *DKF*
3 PROCESSED 8 APR 85 20:02

3005-0 03
FB-CPC (STRIKING NHTSA BARRIER)
A-D DATA SAE CLASS 180

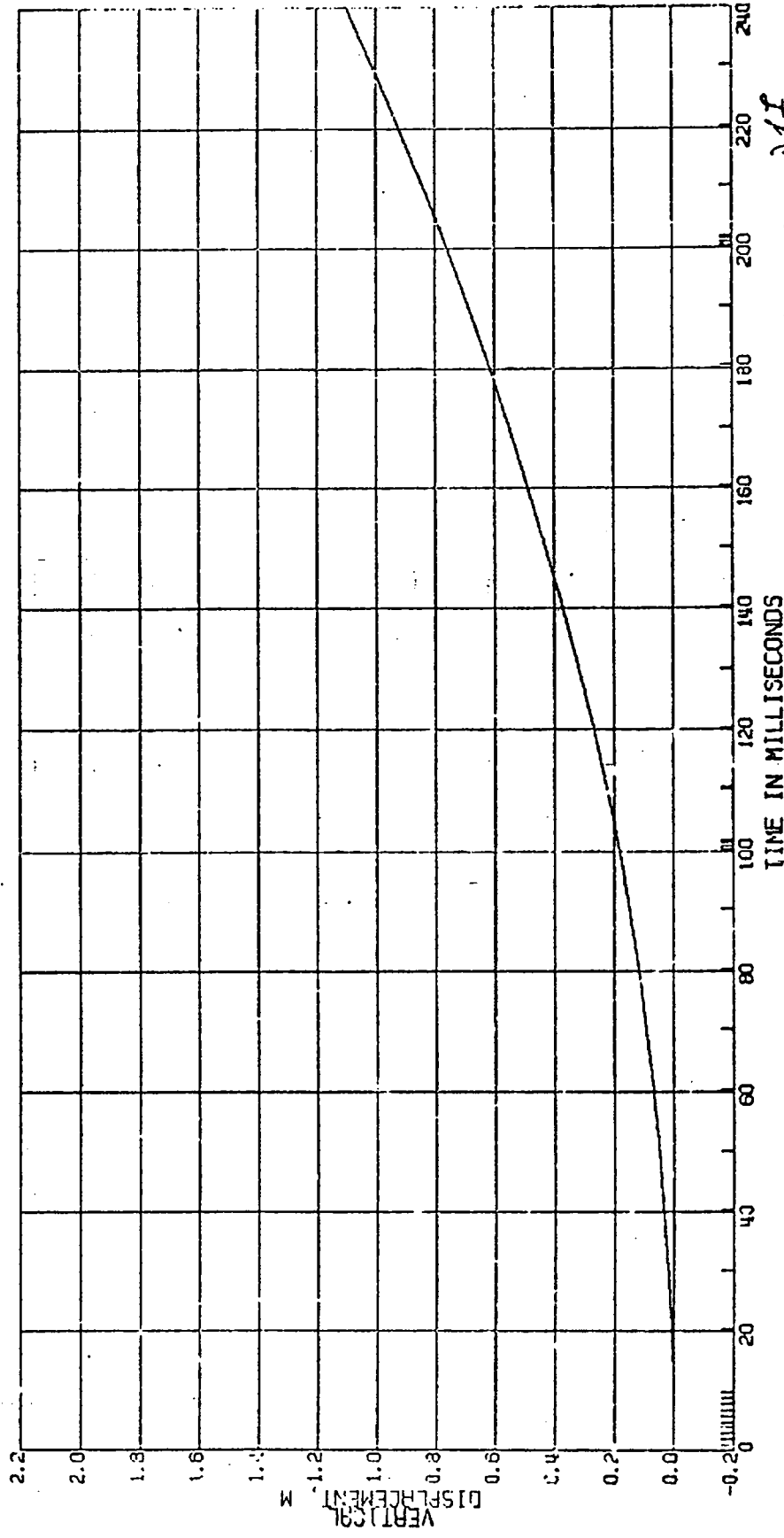
COMPUTED STRIKING BARR-FRT DISPLACEMENT
(2ND INTEGRAL DR-SIDE ACCELERATION)

TEST DATE: 04-C4-85



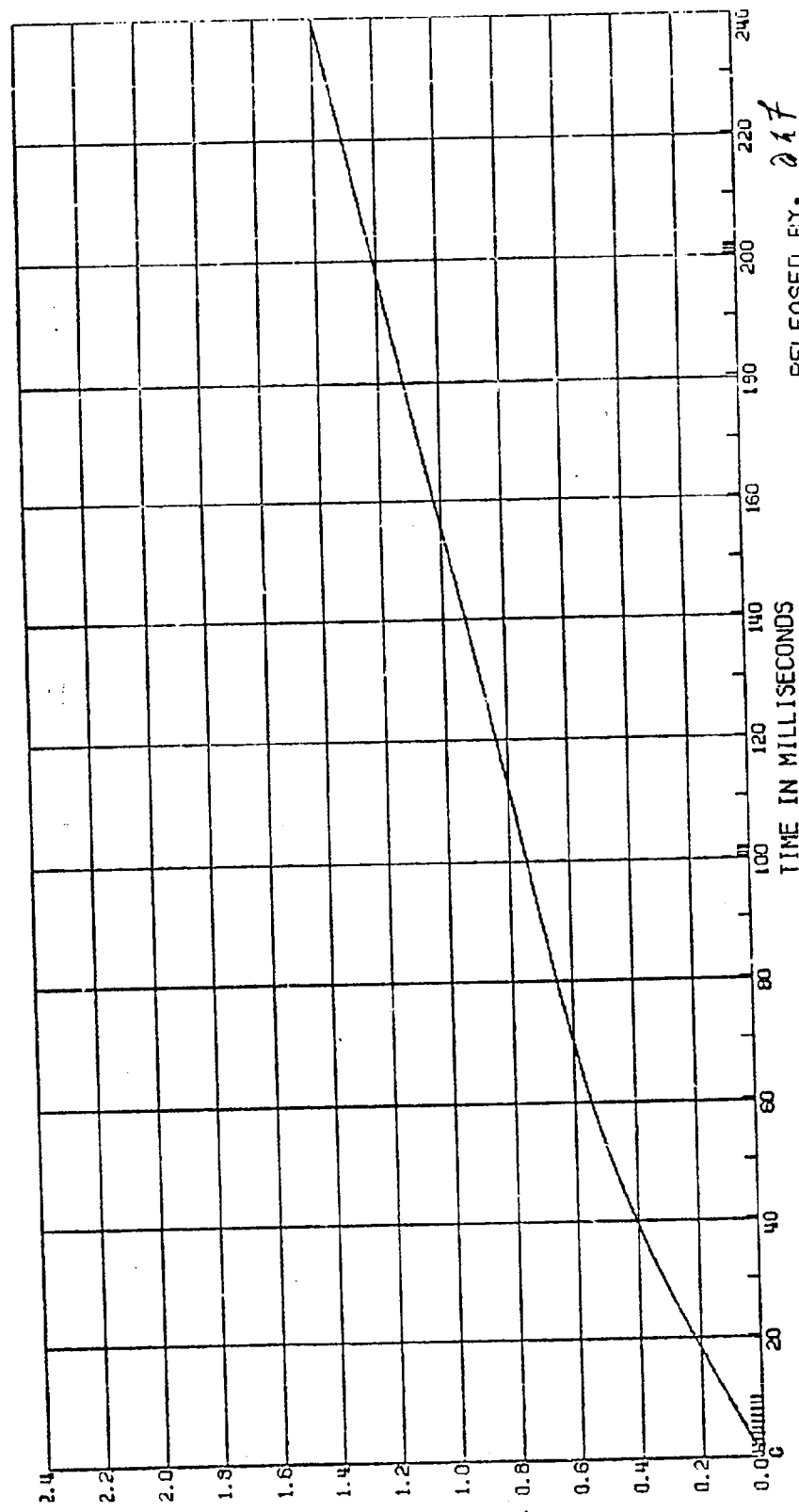
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G PROCESSED 8 AP 85 20:02

FB-CYC (STRIKING NHTSA BARRIER) COMPUTED STRIKING BARR-FRT, DISPLACEMENT TEST DATE: 04-C4-85
A-C DATA, SAE CLASS 180 (2ND INTEGRAL DR-SIDE ACCELERATION)



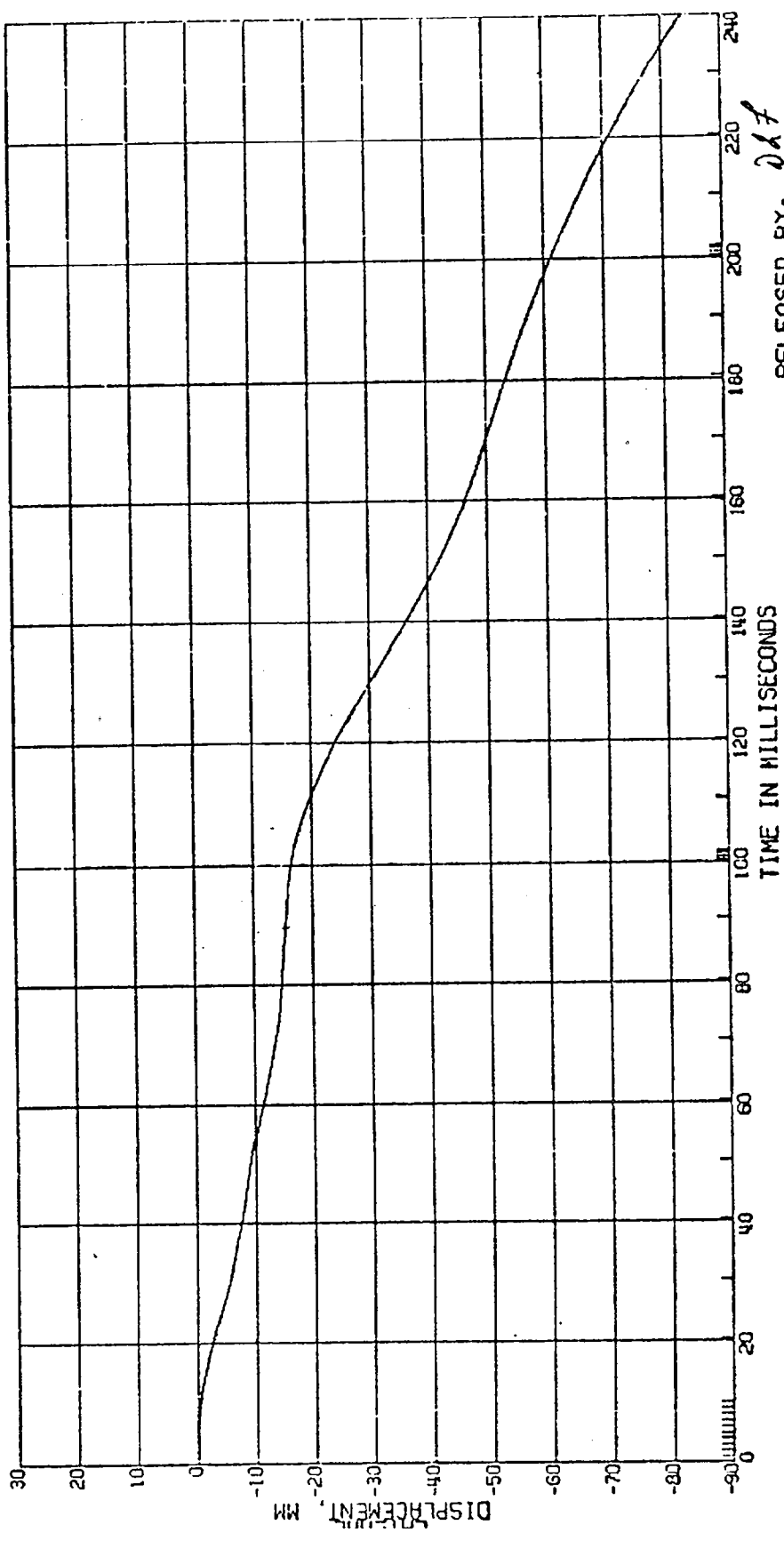
RELEASED BY: *dlf*
9 PROCESSED 8 AP 85 20:02

SA RIGHT SIDE IMPACT
 MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 76
 PC (STRIKING NHTSA BARRIER)
 DATA SAE CLASS 180
 COMPUTED STRIKING BARR-FRT DISPLACEMENT
 (2ND INTEGRAL PASS-SIDE ACCELERATION)
 TEST DATE: 04-C4-85



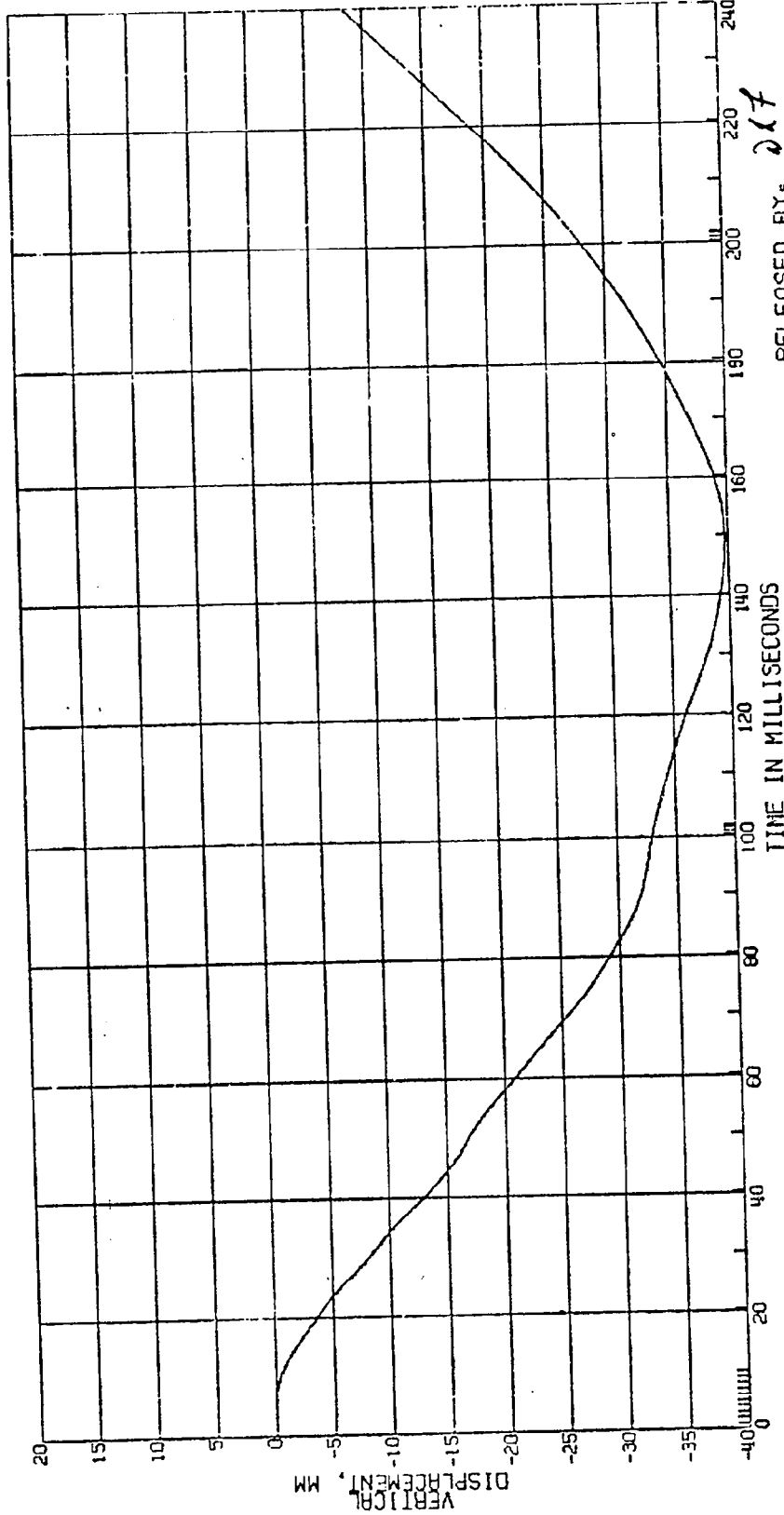
RELEASED BY: 217
 12 PROCESSED 8 AP 85 20:00

100-N/C
}-CPC (STRIKING NHTSA BARRIER)
-D DATA SAE CLASS 180
COMPUTED STRIKING BARR-FAT DISPLACEMENT
(2ND INTEGRAL PASS-SIDE ACCELERATION)
TEST DATE: 04-C4-85



RELEASED BY: *DAF*
15 PROCESSED 8 AP 85 20103

6185A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 86
865-075 COMPUTED STRIKING BARR-FRT DISPLACEMENT TEST DATE:04-C4-85
B-CPC (STRIKING NHTSA BARRIER)
-D DATA SAE CLASS 180 (2ND INTEGRAL PASS-SIDE ACCELERATION)



RELEASED BY: *DLF*
18 PROCESSED & AP 85 20101

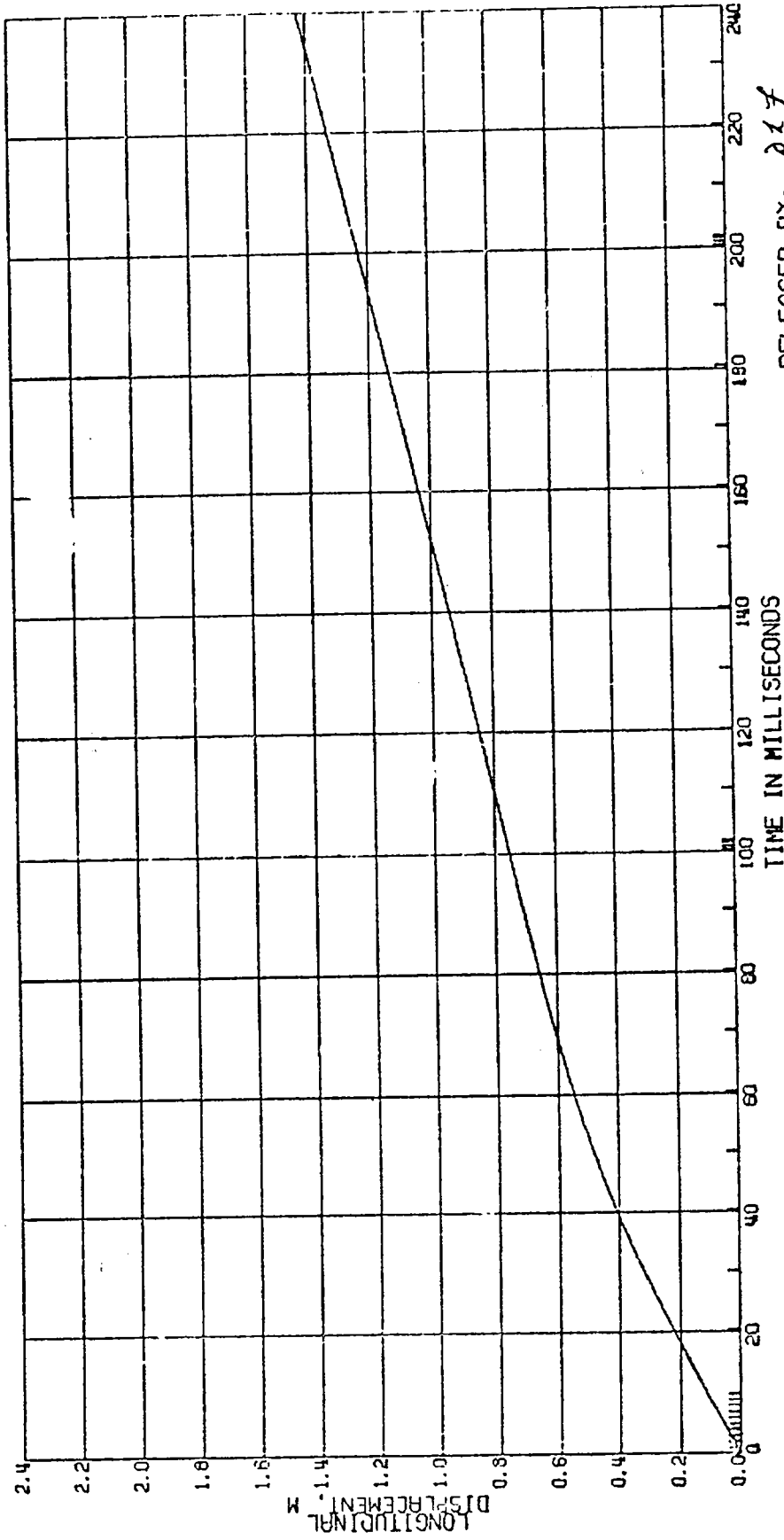
TEST DATE: 04-C4-85

COMPUTED STRIKING BARR-FBI DISPLACEMENT

FB-CPC (STRIKING NHTSA BARRIER)

(2ND INTEGRAL AVERAGED ACCELERATION)

A-0 DATA SAE CLASS 180



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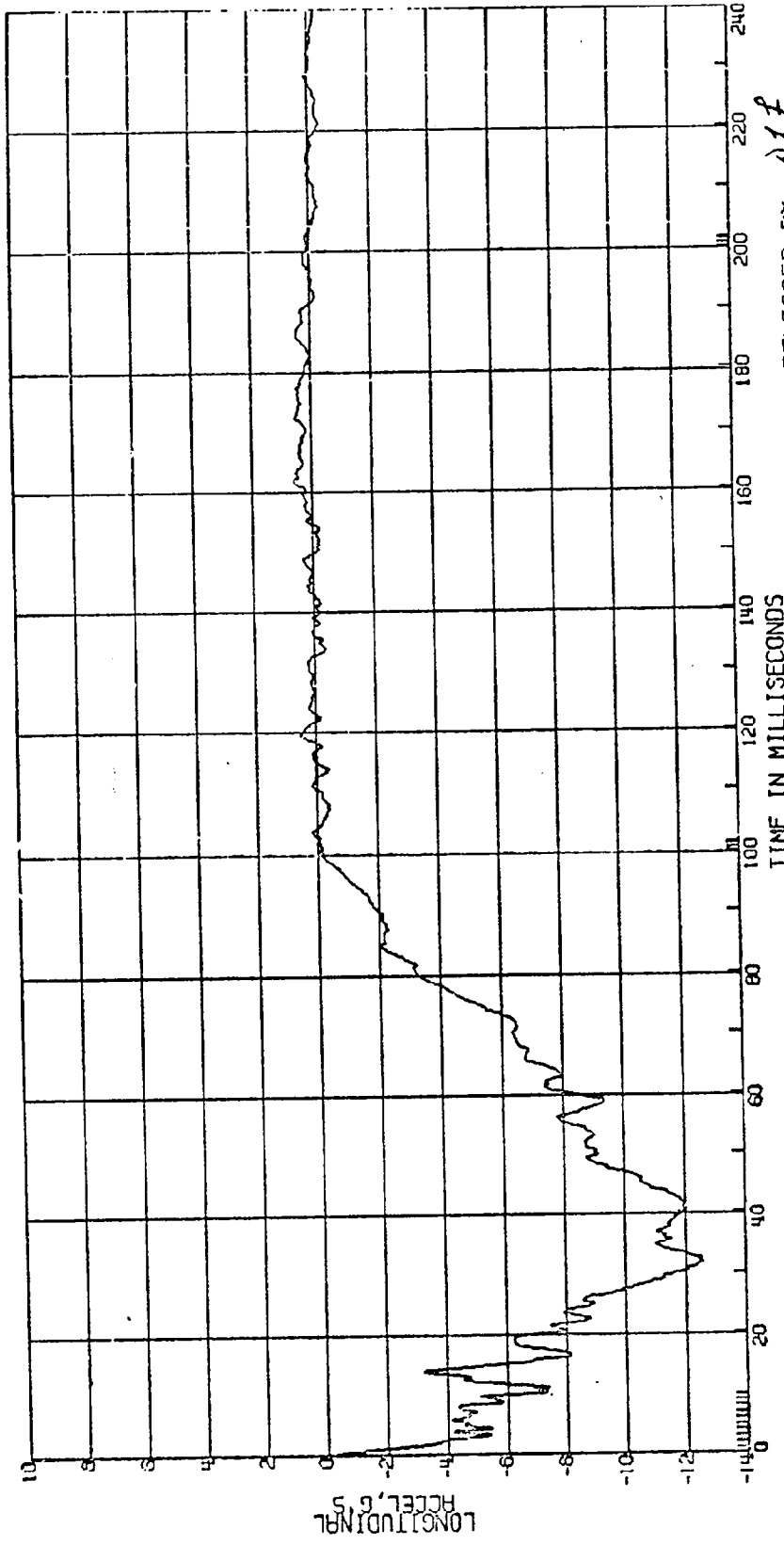
21 PROCESSED 8 APR 85 20:00

3865-075

FB-CPC (STRIKING NHTSA BARRIER)
A-D DATA SAE CLASS 60

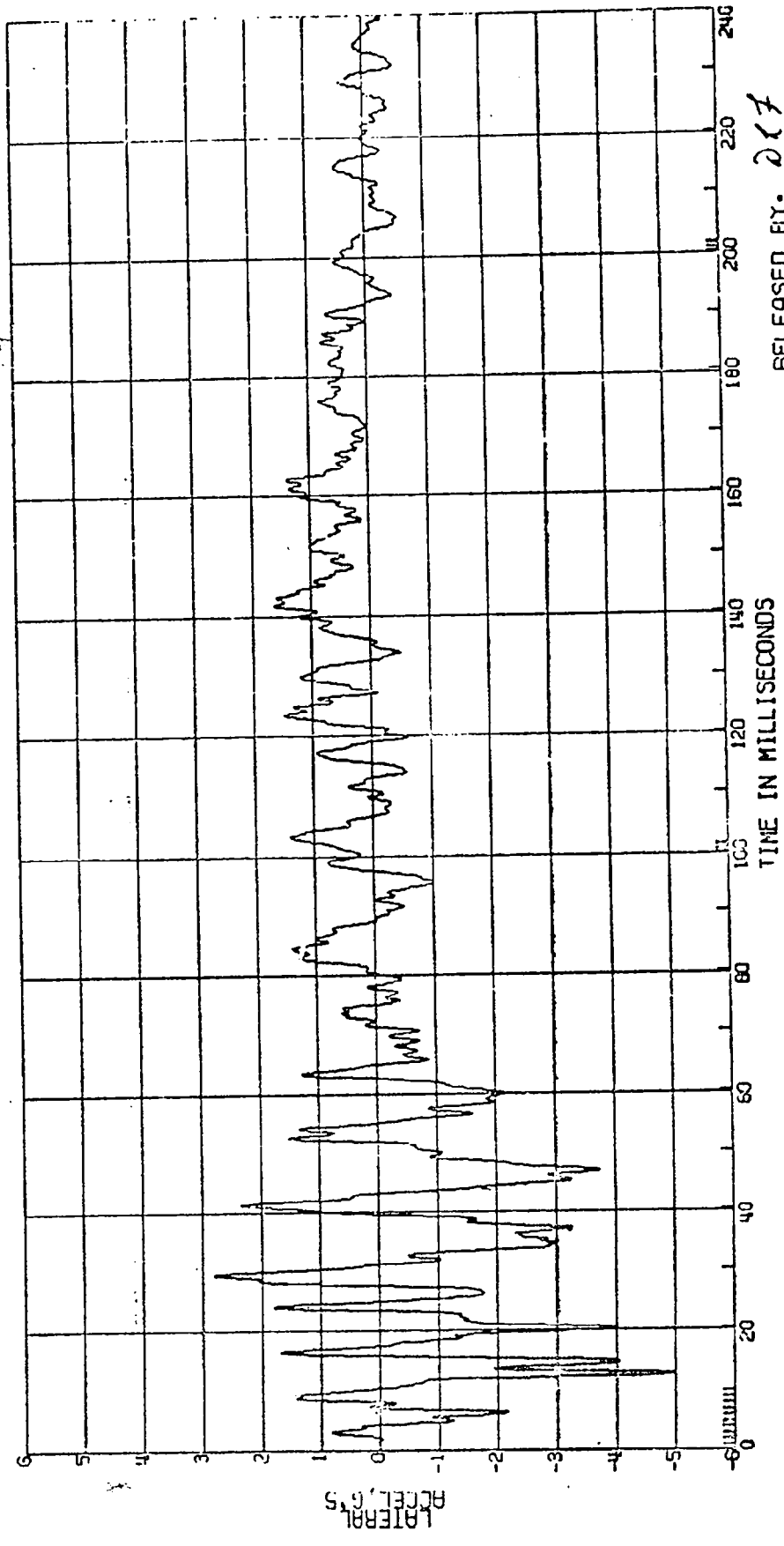
DR-SIDE STRIKING BARR. MID ACCEL.

TEST DATE: 04-04-85



RELEASED BY: *DLF*
22 PROCESSED 8 AP 85 20:04

FB-CFC (STRIKING NHTSA BARRIER)
A-D DATA, SAE CLASS 60



RELEASED BY: DJF
25 PROCESSED 8 APR 85 20:05

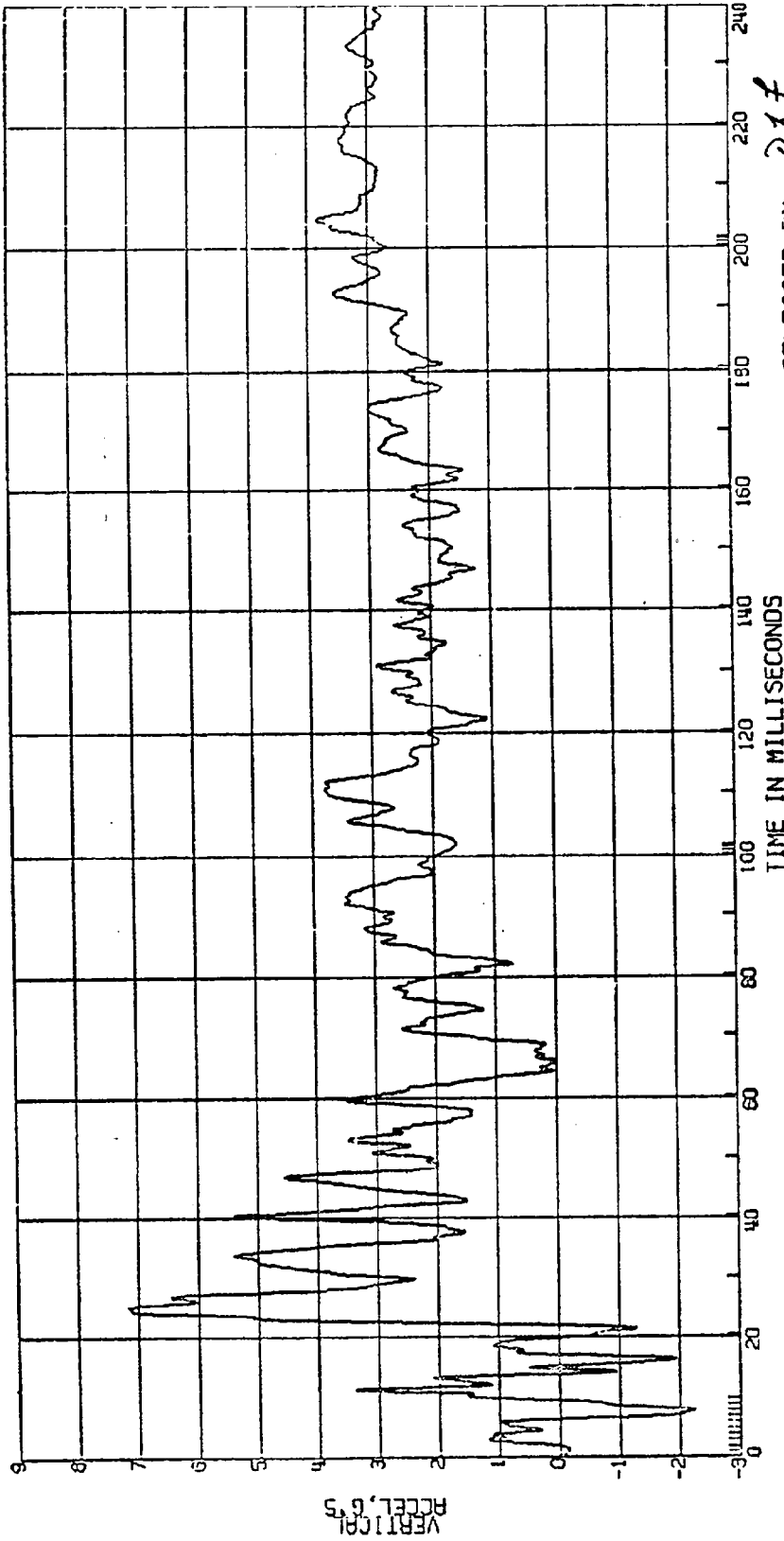
3665-075

FB-CPC (STRIKING NHTSA BARRIER)

A-D DATA SAE CLASS 60

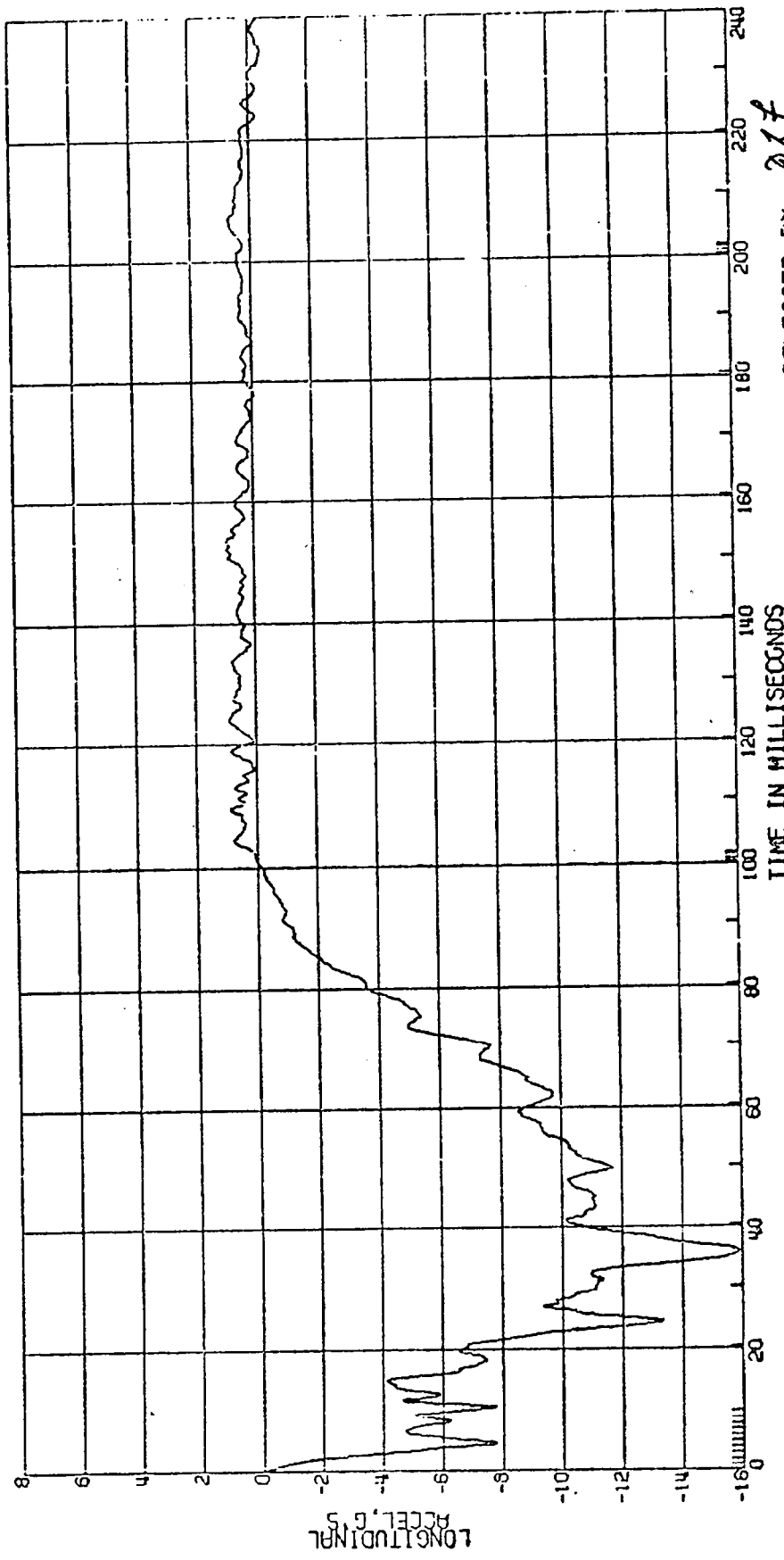
DR-SIDE STRIKING BARR. MID ACCEL.

TEST DATE: 04-CY-85



RELEASED BY: *DF*
28 PROCESSED 8 AP 85 20:05





RELEASED BY: *217*

31 PROCESSED 8 AP 85 20:05

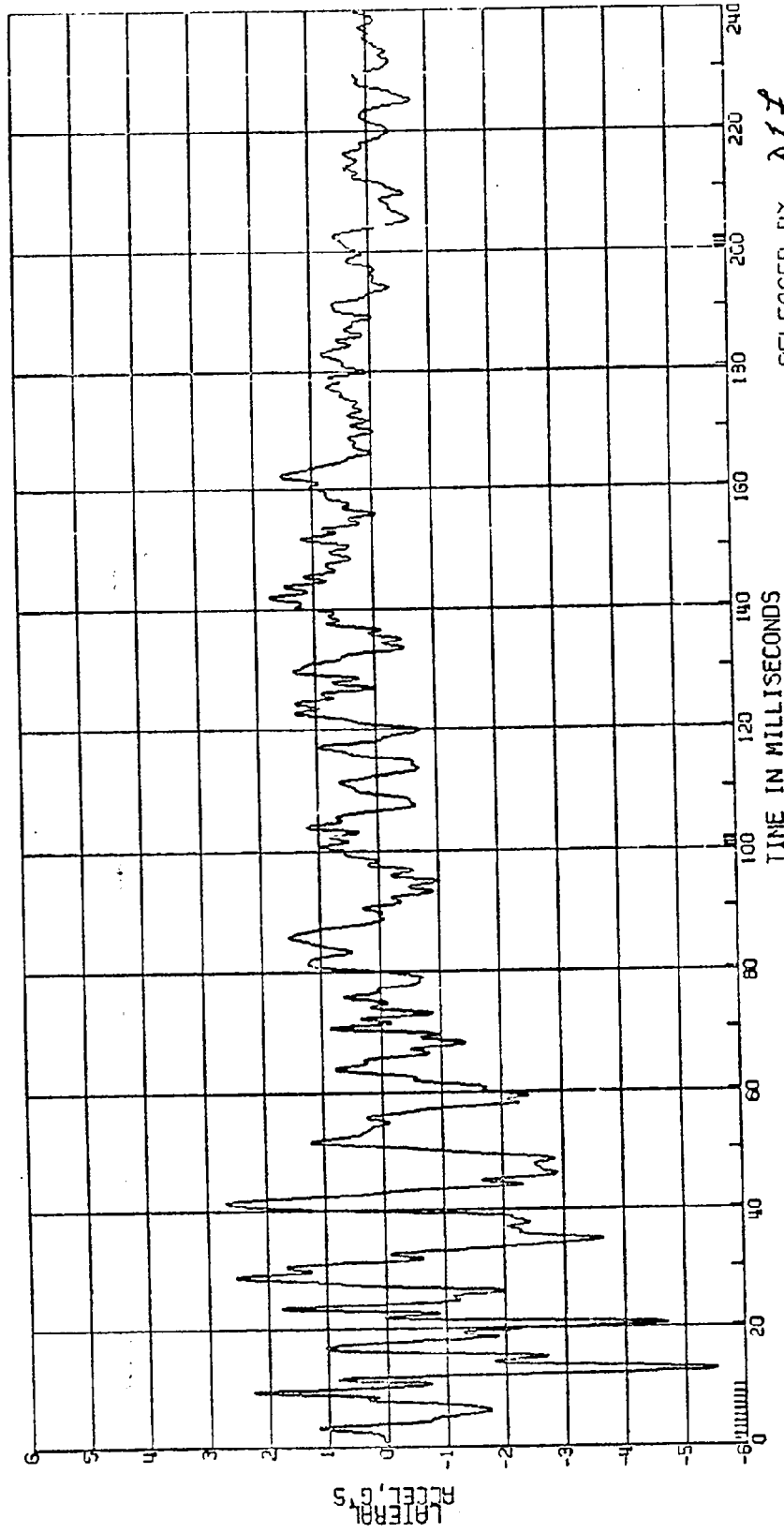
3865-075

FB-CPC (STRIKING NHTSA BARRIER)

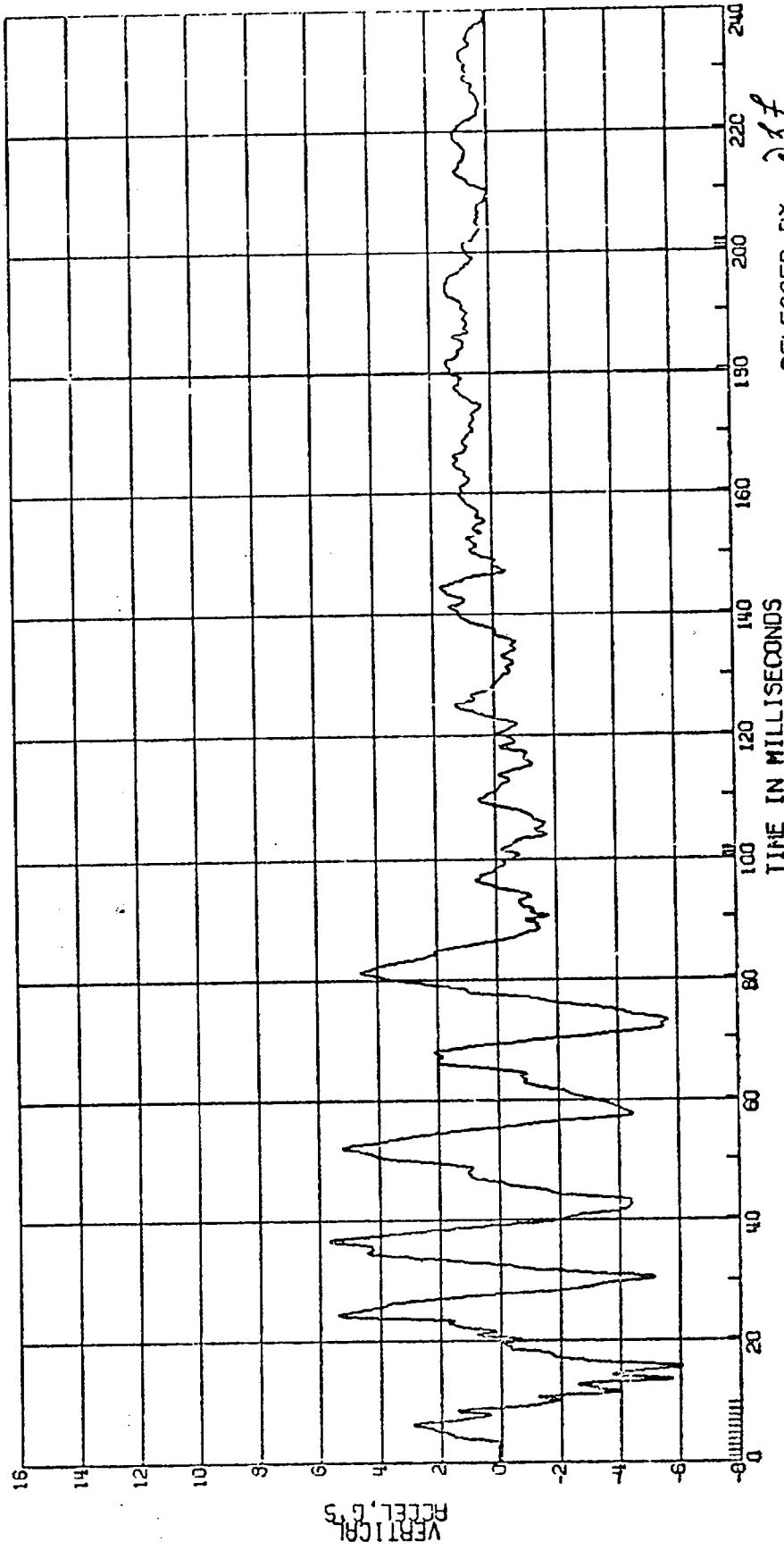
A-D DATA SAE CLASS 60

PASS-SIDE STRIKING BARR. MID ACCEL.

TEST DATE: 04-C4-85



RELEASED BY: DJF
34 PROCESSED 8 APR 85 20:06



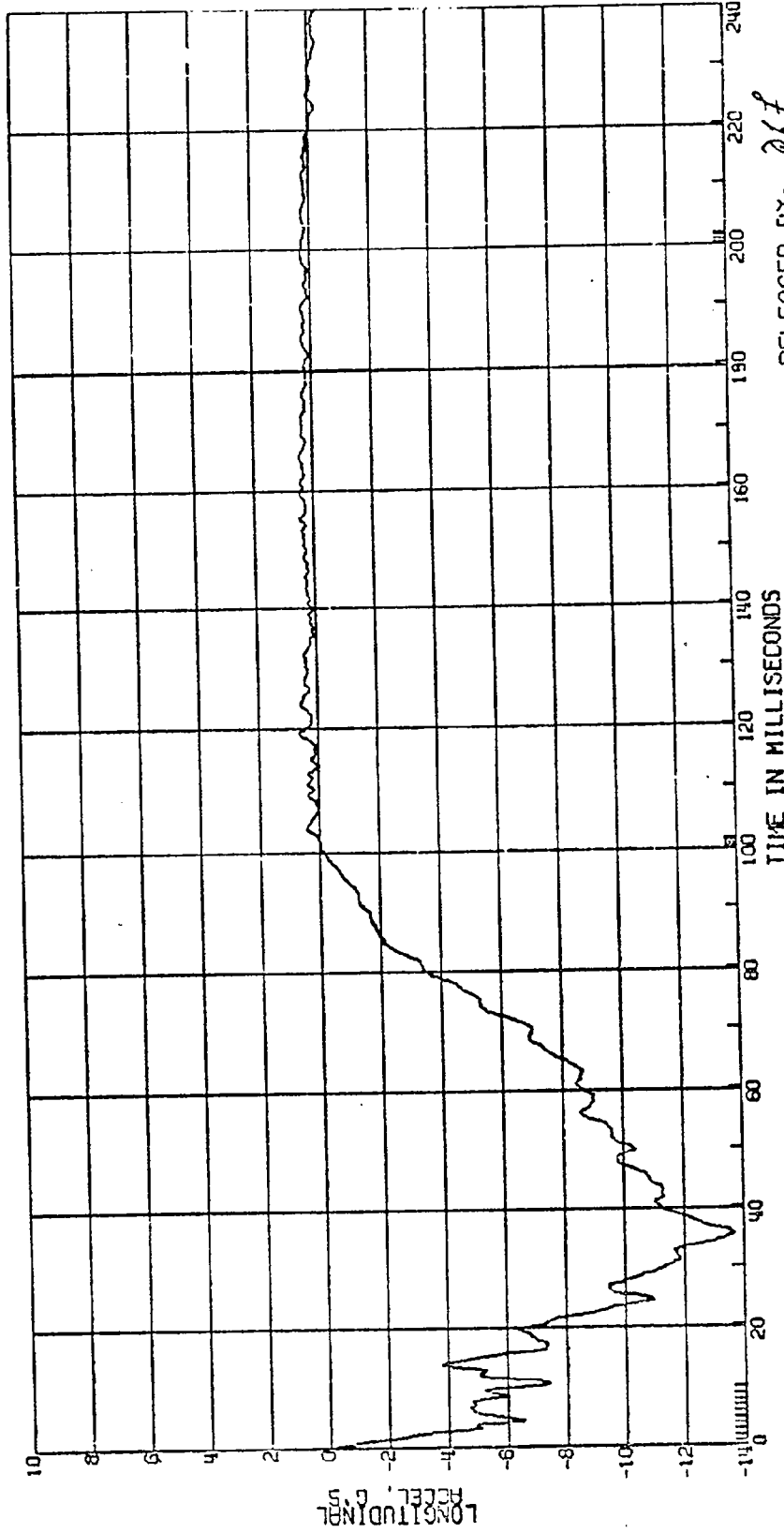
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37 PROCESSED 8 RP 85 20:07

TEST DATE: 04-04-85

AVERAGED DRIVER & PASSENGER SIDES

AVERAGED STRIKING BARR-MID ACCEL

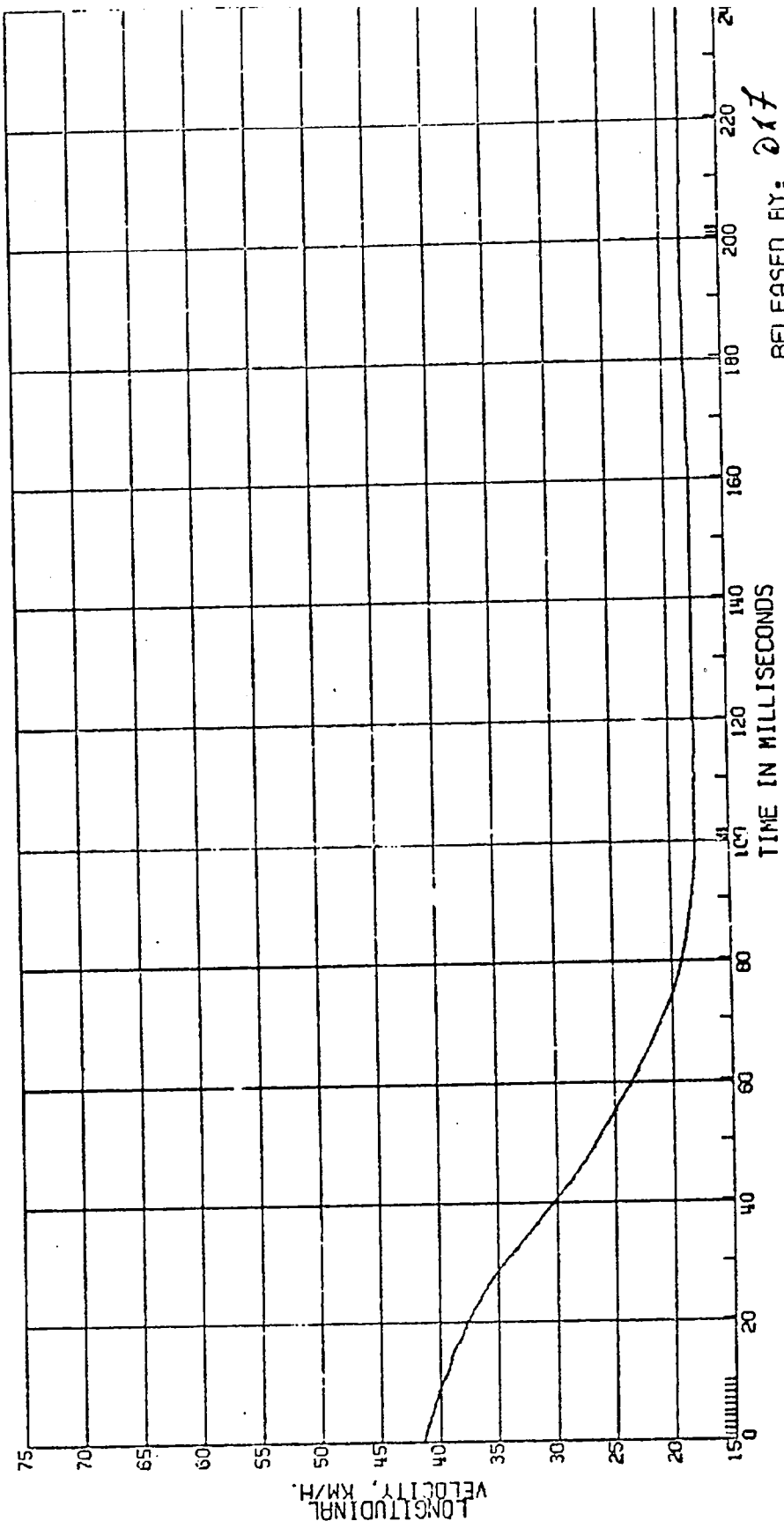
3865-075
FB-CPC (STRIKING NHTSA BARRIER)
A-D DATA SAE CLASS 60



RELEASED BY: *DLF*
40 PROCESSED 8 AP 85 20:07

(1ST INTEGRAL DR-SIDE ACCELERATION)

M-10 DATA SHE CLASS 1001

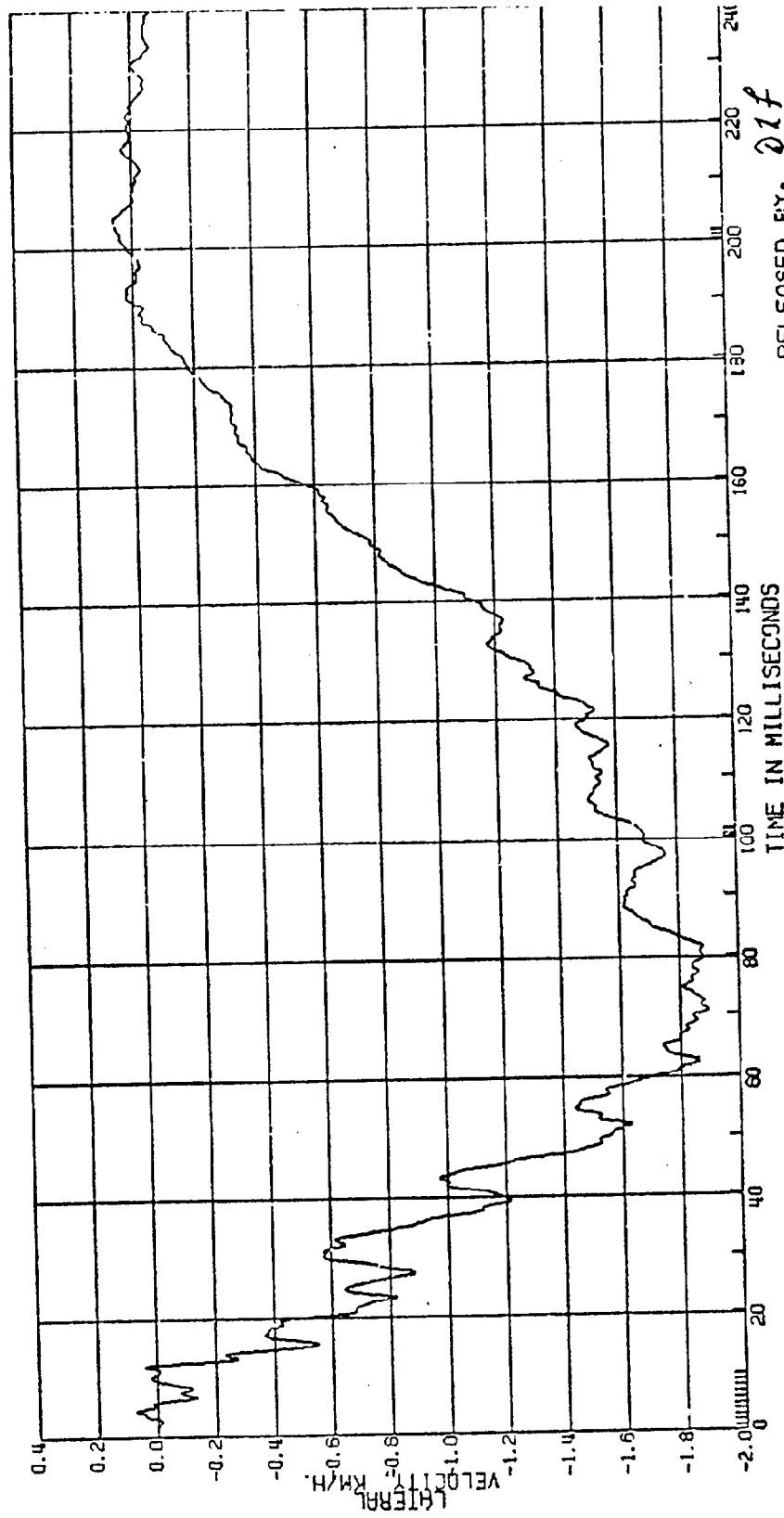


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23 PROCESSED 8 AP 85 20:04

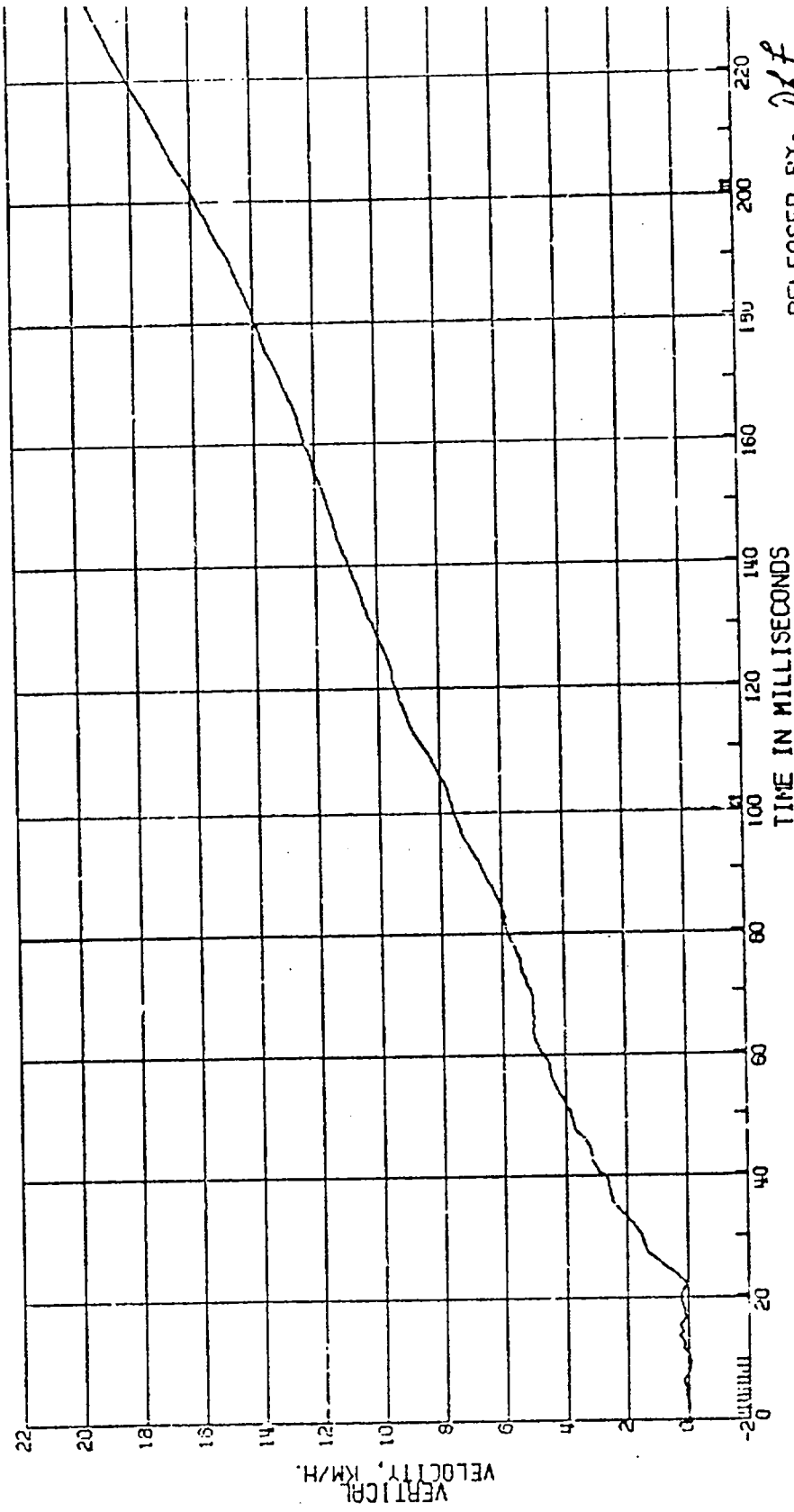
3865-075
FB-CPC (STRIKING NHTSA BARRIER)
A-D DATA SAE CLASS 160

COMPUTED STRIKING BARR-MID VELOCITY
(1ST INTEGRAL DR-SIDE ACCELERATION)

TEST DATE: 04-C4-85



RELEASED BY: *DLF*
26 PROCESSED 8 AP 85 20:05

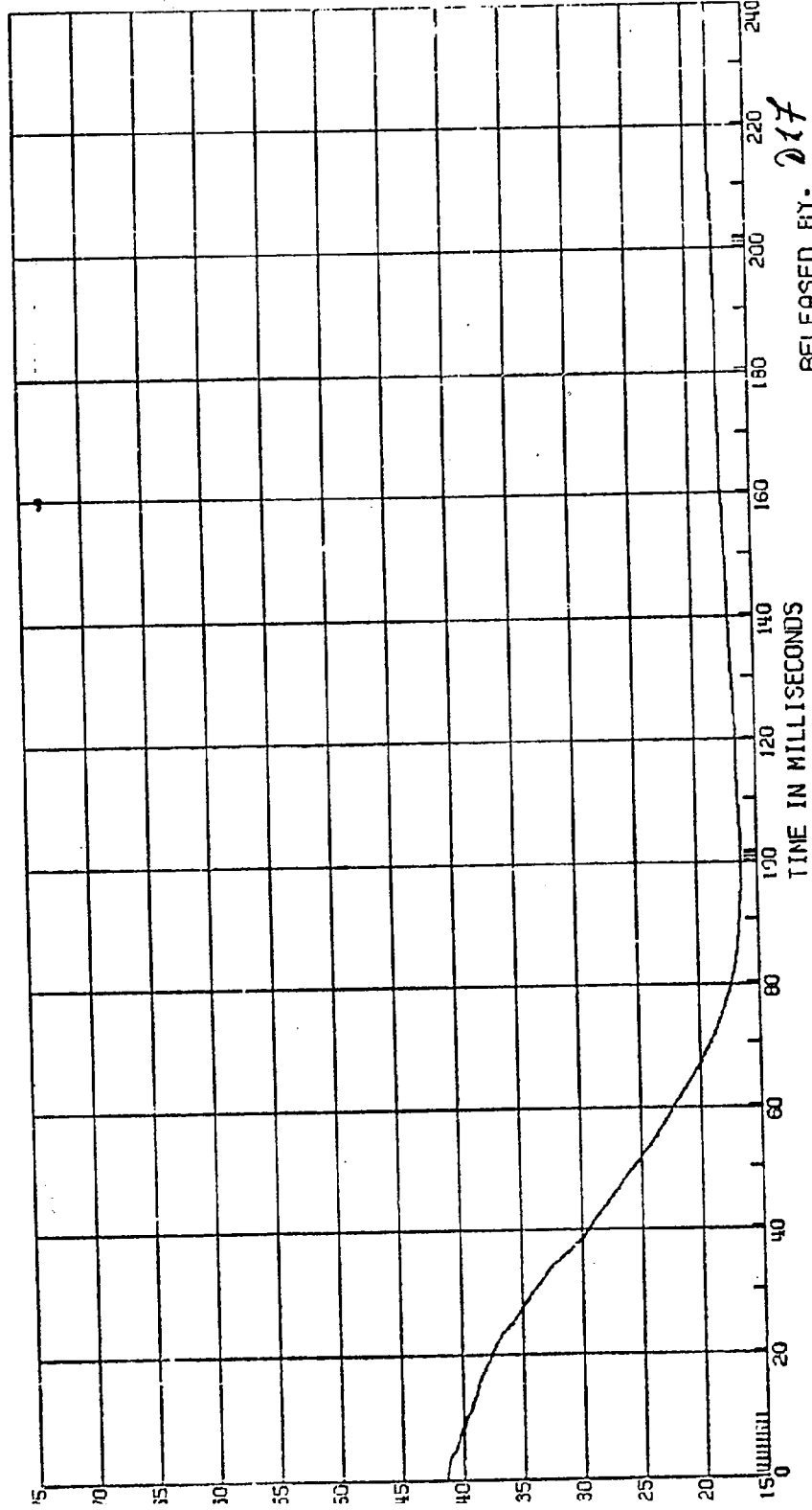


RELEASED BY: *DXF*
29 PROCESSED 8 AP 85 20:00

MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 100
COMPUTED STRIKING BARR-MID VELOCITY
(1ST INTEGRAL PASS-SIDE ACCELERATION)

RIGHT SIDE IMPACT
0.75
(STRIKING NHTSA BARRIER)
DATA SAE CLASS 180

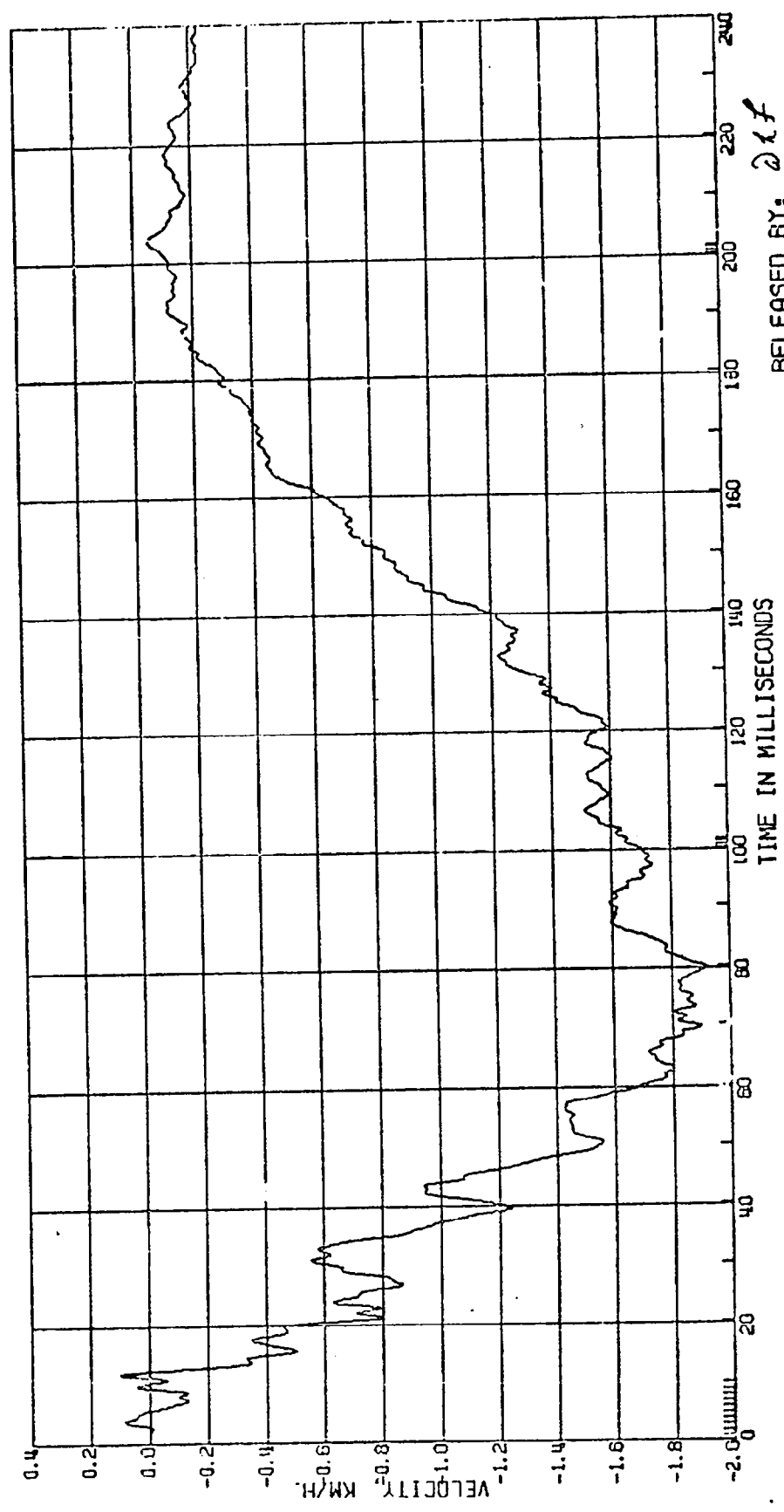
TEST DATE: 04-04-65



RELEASED BY: *DTF*
32 PROCESSED 8 APR 65 20:06

MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 101
COMPUTED STRIKING BARR-MID VELOCITY
(1ST INTEGRAL PASS-SIDE ACCELERATION)

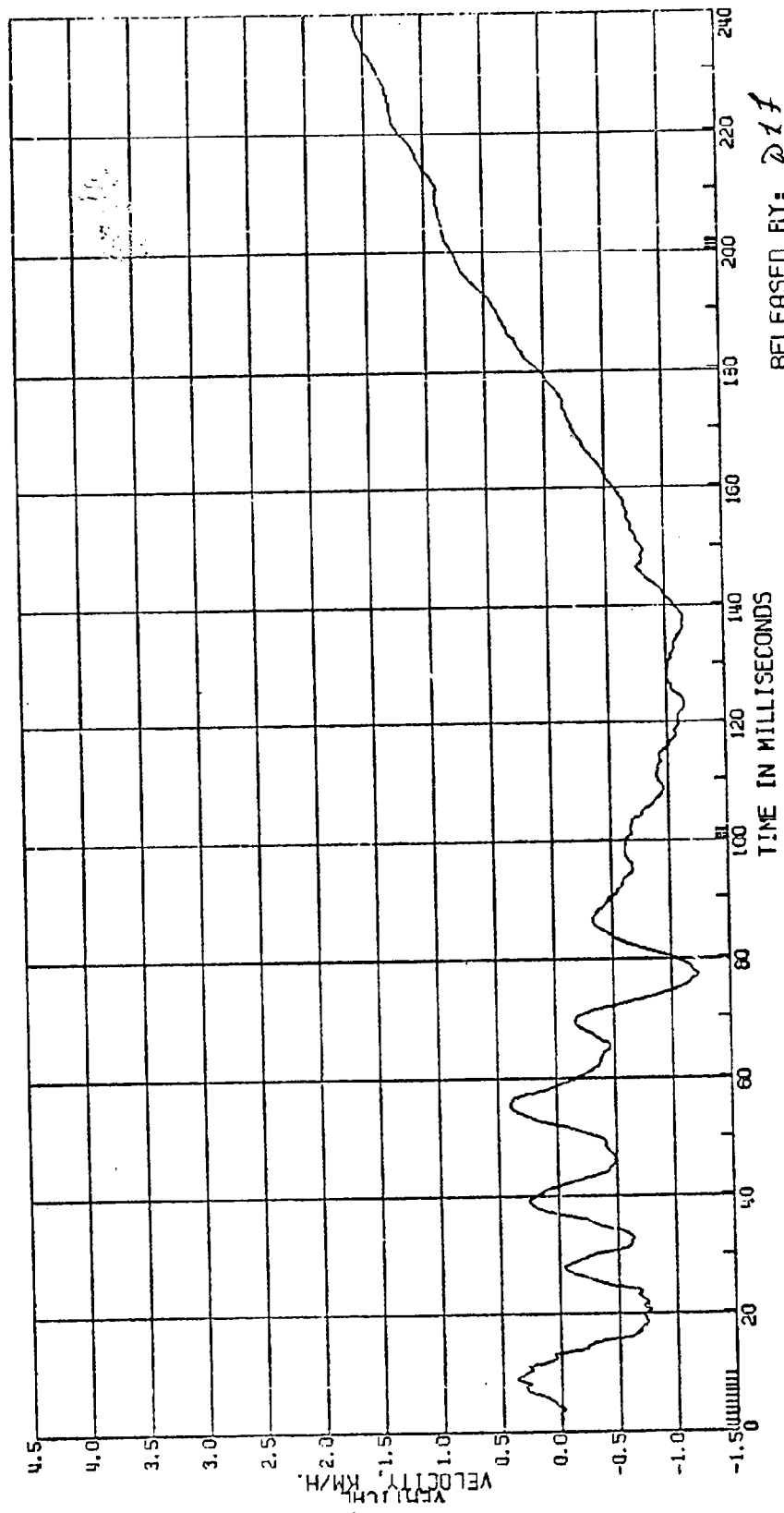
185A RIGHT SIDE IMPACT
35-075
-CFC (STRIKING NHTSA BARRIER)
3 DATA SAE CLASS 180



RELEASED BY: *DLF*
35 PROCESSED 8 APR 85 20:00

MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 102
COMPUTED STRIKING BARR-MID VELOCITY TEST DATE: 04-C4-85
(1ST INTEGRAL PASS-SIDE ACCELERATION)

3185A RIGHT SIDE IMPACT
365-075
3-CPC (STRIKING NHTSA BARRIER)
-0 DATA SAE CLASS 180



RELEASED BY: *DIF*
38 PROCESSED 8 AP 85 20:07

COMPUTED STRIKING BARR-MID VELOCITY

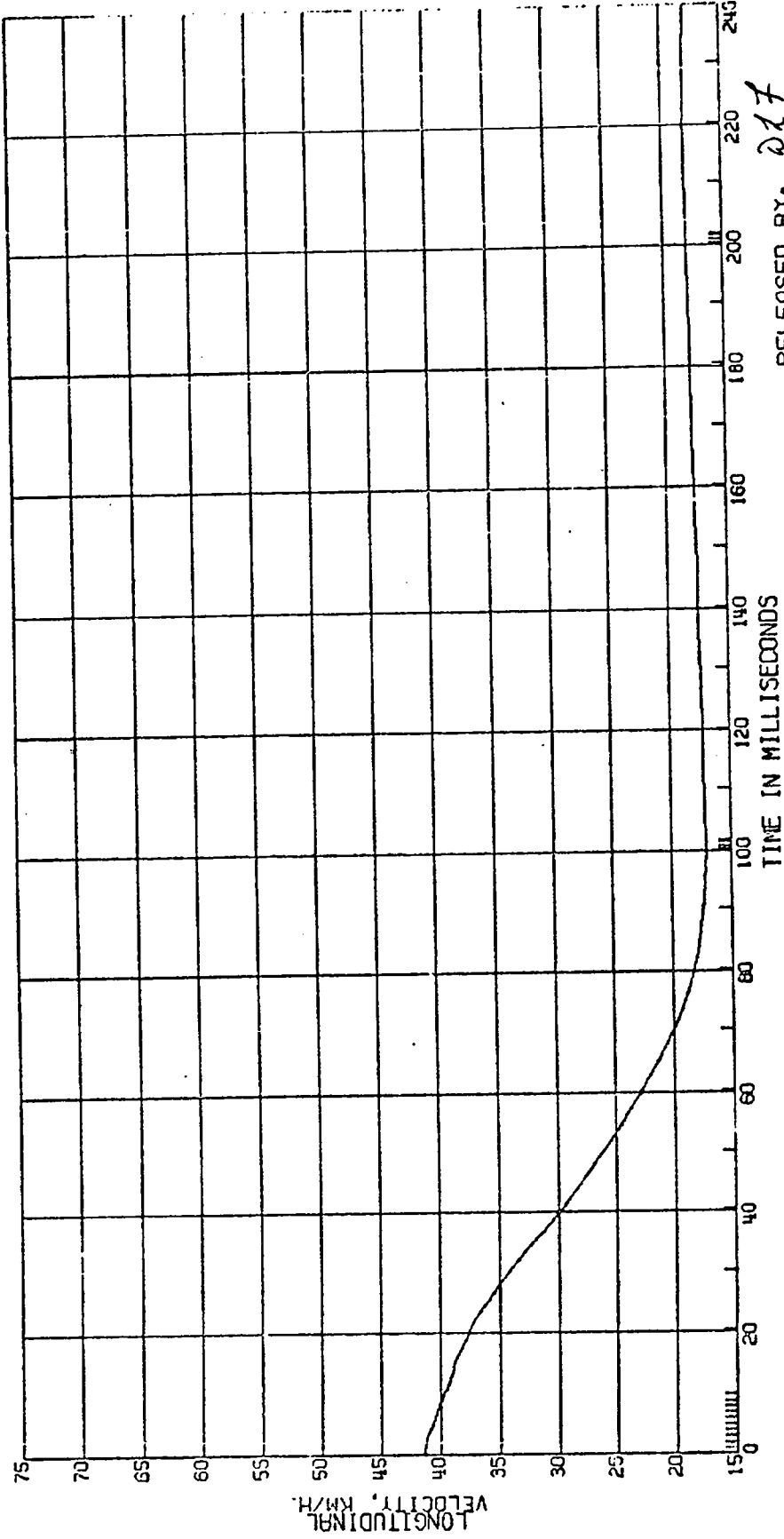
3865-075

FB-CPC (STRIKING NHTSA BARRIER)

A-0 DATA SAE CLASS 180

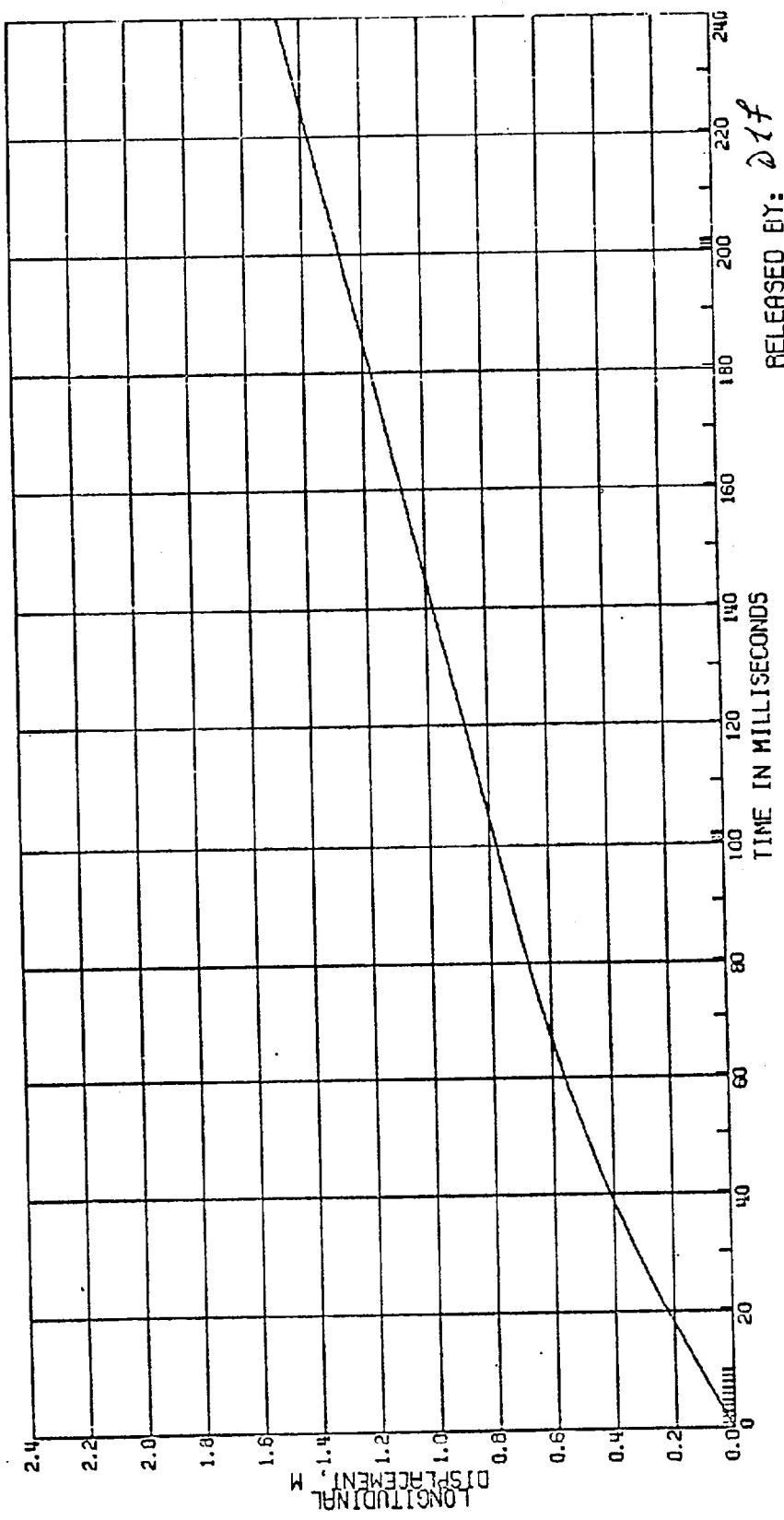
TEST DATE: 04-C4-85

(1ST INTEGRAL AVERAGED ACCELERATION)



RELEASED BY: *DLF*
41 PROCESSED 8 AP 85 20:00

C6185A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 704
 3865-075 FB-CPC (STRIKING NHTSA BARRIER) COMPUTED STRIKING BARR-MID DISPLACEMENT TEST DATE: 04-C4-85
 A-0 DATA SAE CLASS 180 (2ND INTEGRAL OR-SIDE ACCELERATION)

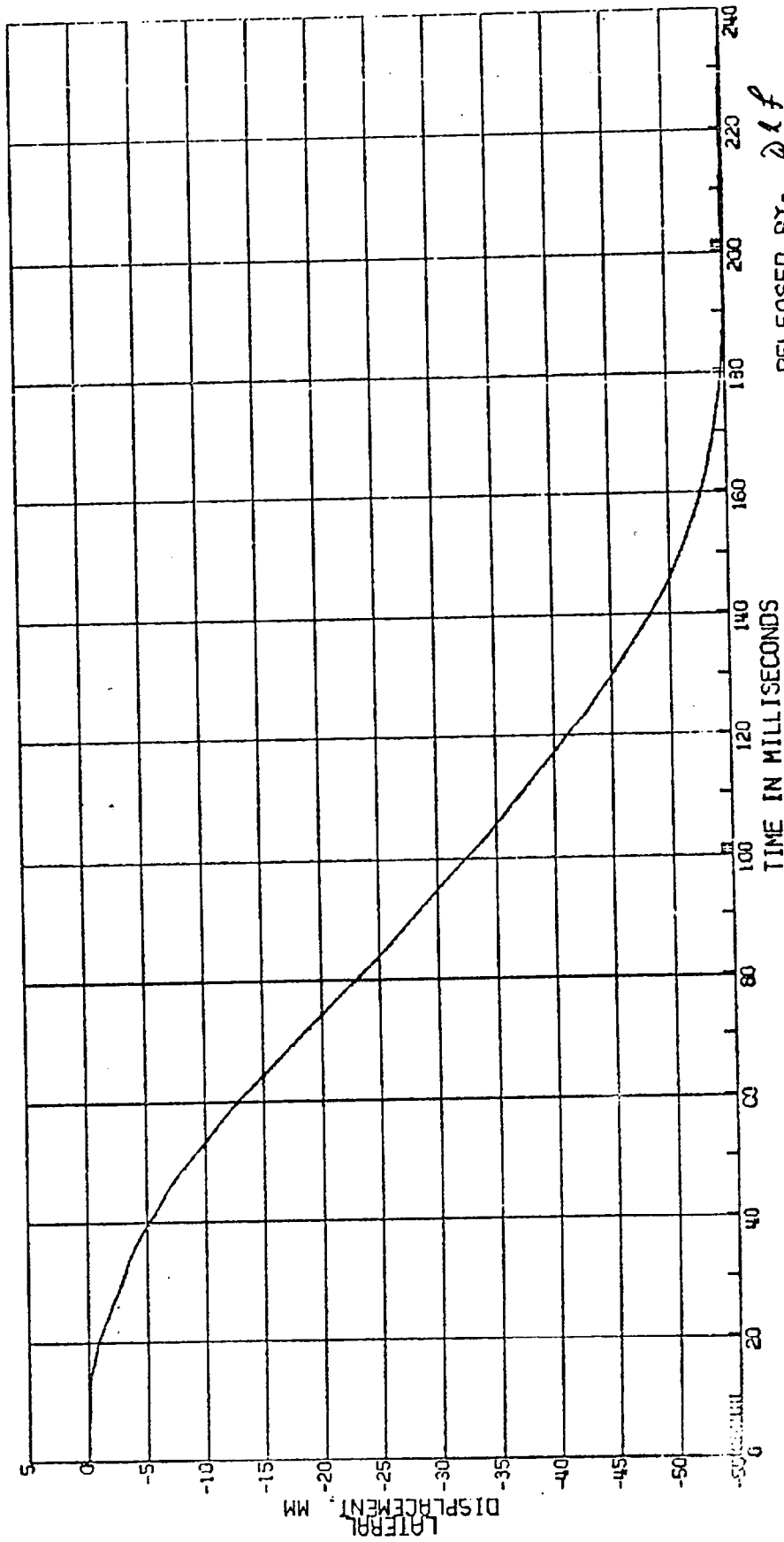


RELEASED BY: *DZF*
 24 APR 85 20:04

3865-075
FB-CPC (STRIKING NHTSA BARRIER)
A-0 DATA SAE CLASS 180

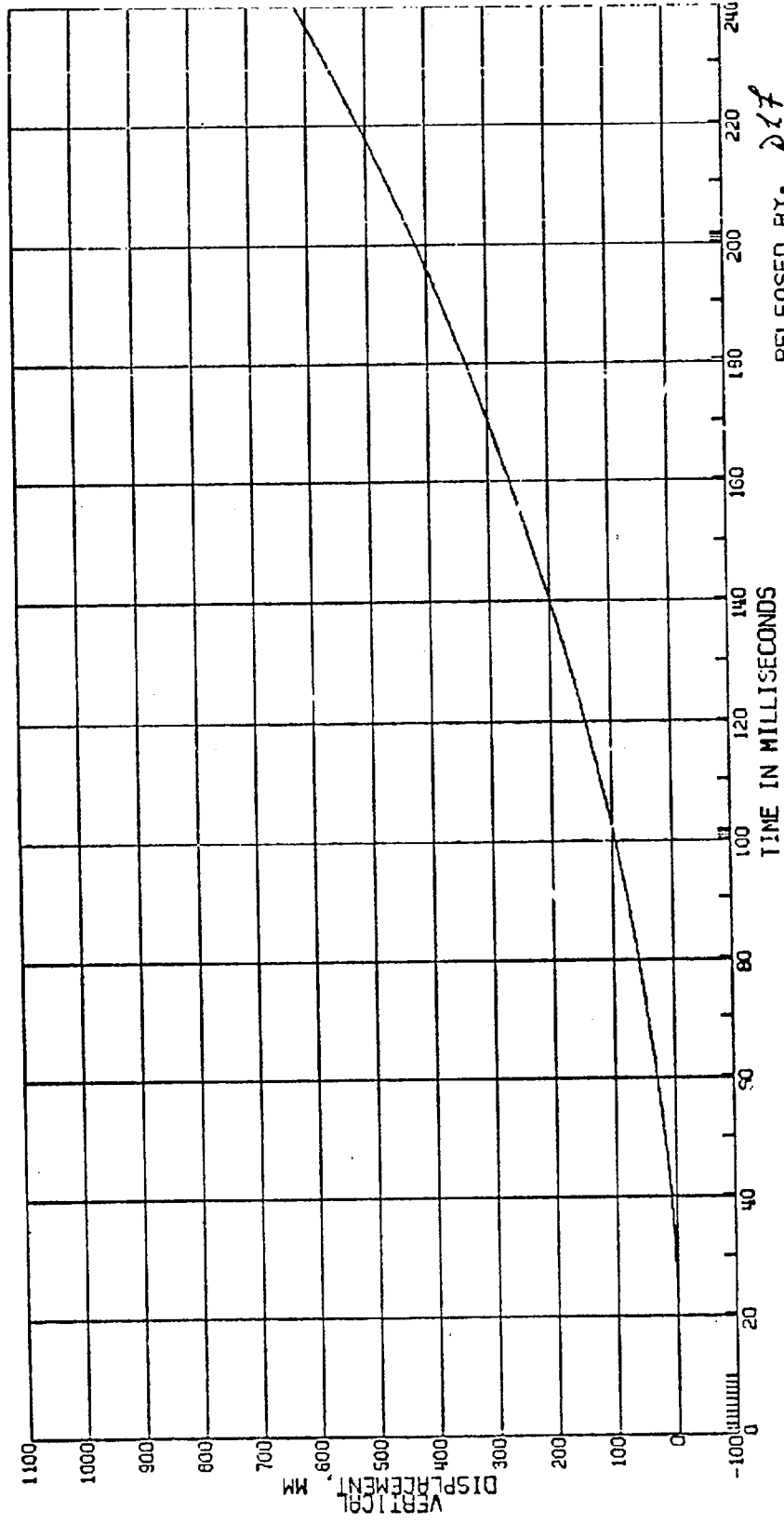
COMPUTED STRIKING BARR-MID DISPLACEMENT
(2ND INTEGRAL DR-SIDE ACCELERATION)

TEST DATE: 04-C4-85



RELEASED BY: *dlf*
27 PROCESSED 8 APR 85 20:05

CG185A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 106
 3865-075 COMPUTED STRIKING BARR-MID DISPLACEMENT TEST DATE:04-C4-85
 FB-CPC (STRIKING NHTSA BARRIER) (2ND INTEGRAL DR-SIDE ACCELERATION)
 A-D DATA SAE CLASS 180

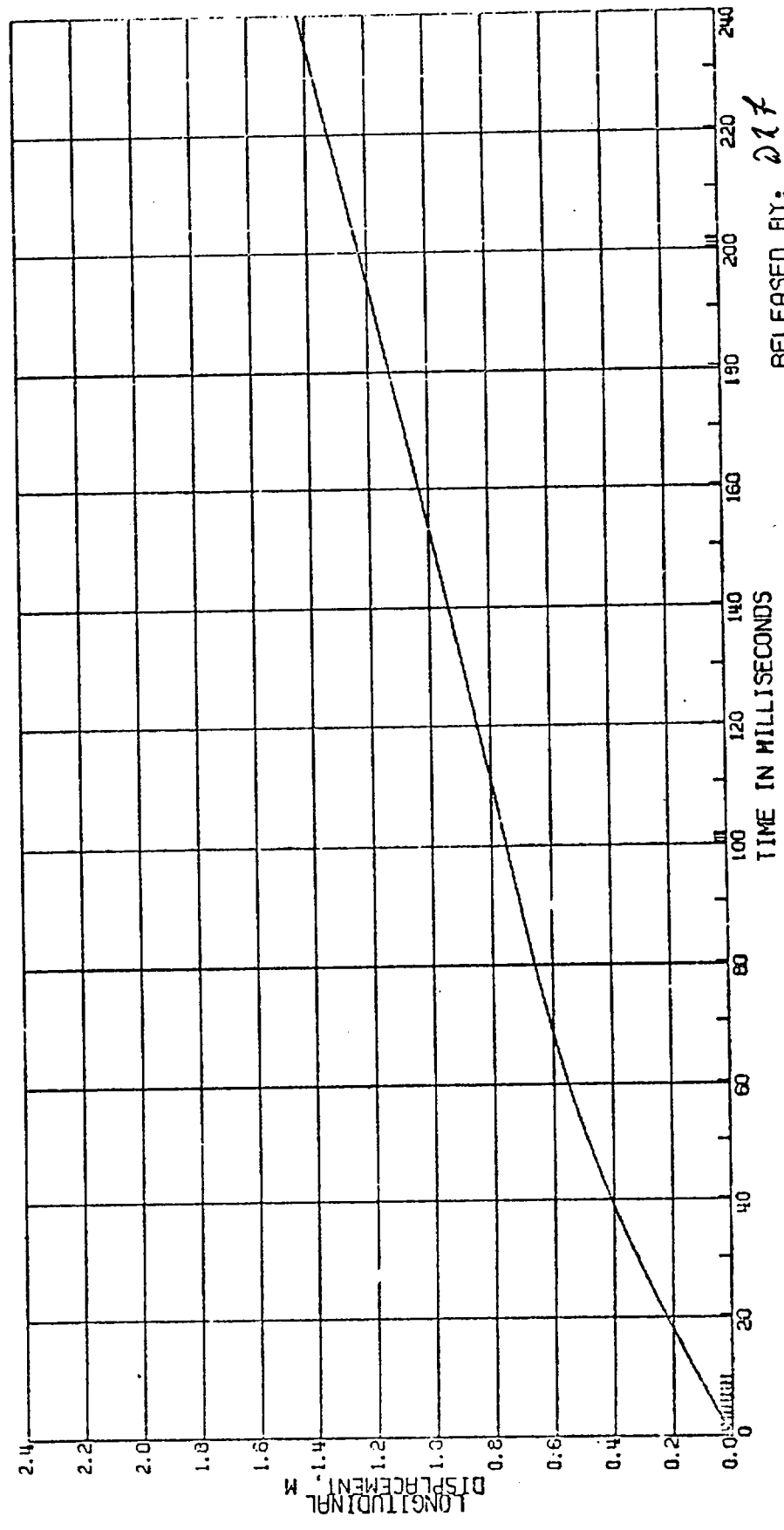


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FB-LPL (SHAKING WHICH DAMAGED)

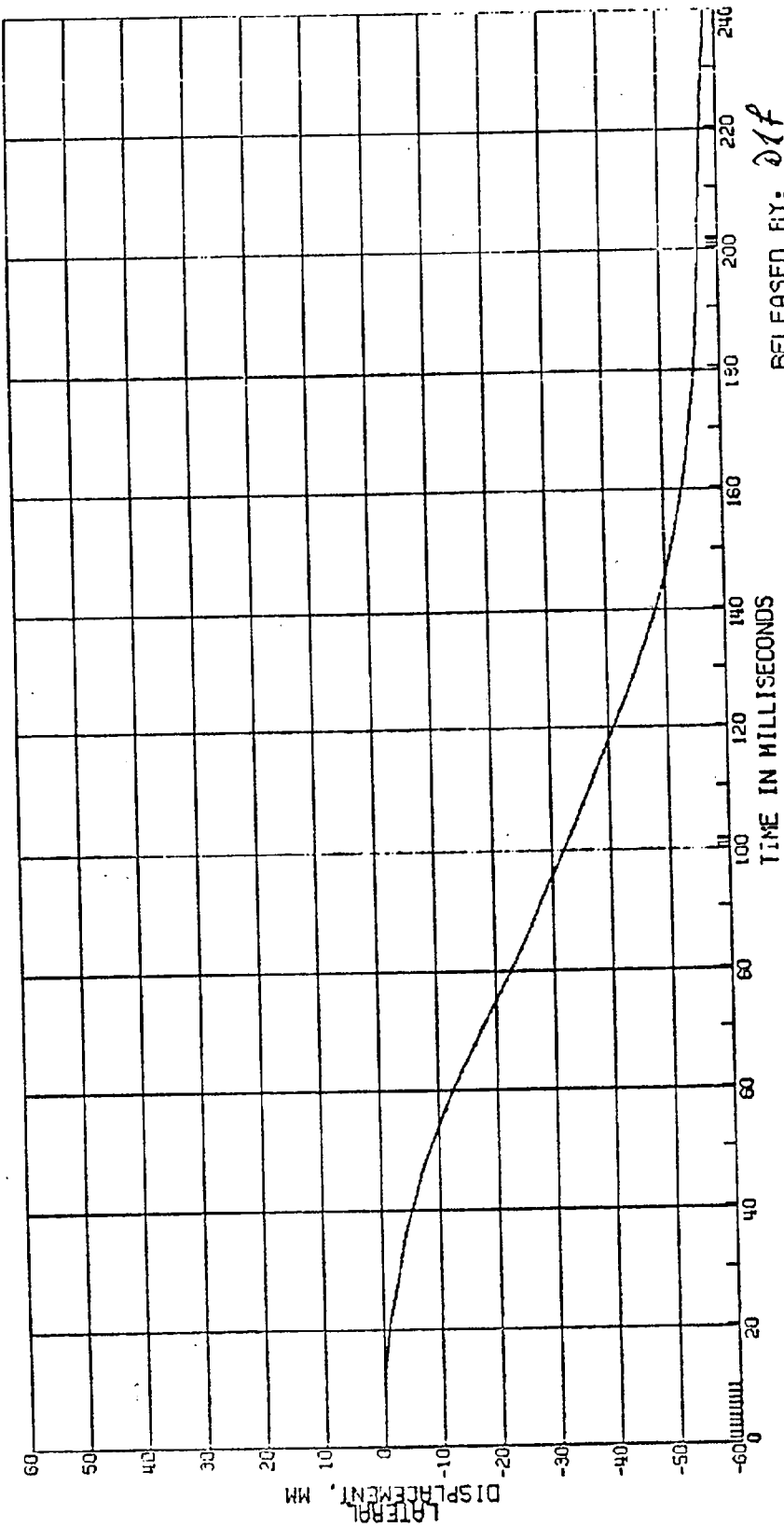
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(2ND INTEGRAL PASS-SIDE ACCELERATION)



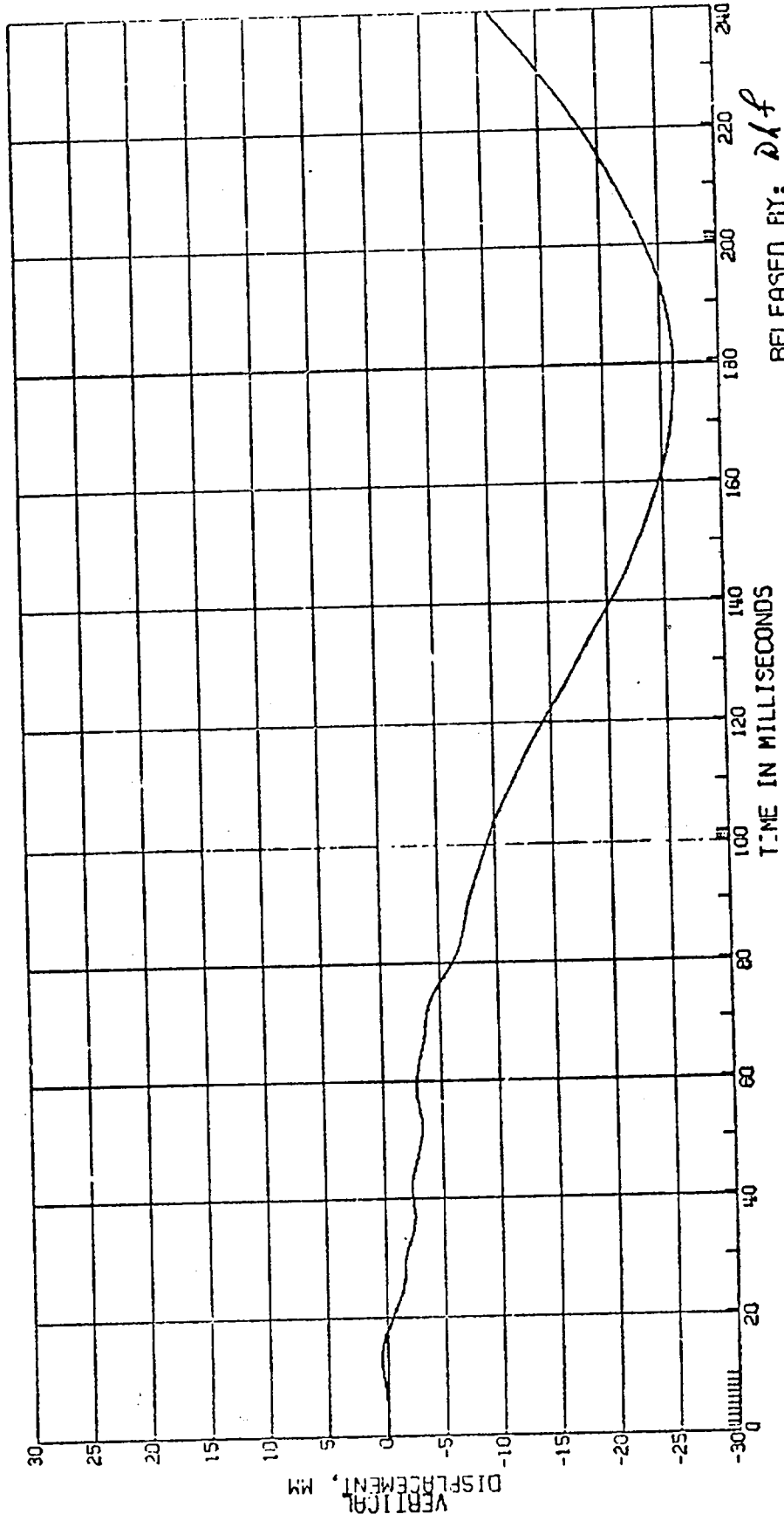
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C6185H HIGH SIDE IMPACT MOVING VEHICLE TO STATIONARY VEHICLE TEST DATE: 04-C4-85
 3865-075 COMPUTED STRIKING BARR-MID DISPLACEMENT
 FB-CPC (STRIKING NHTSA BARRIER) (2ND INTEGRAL PASS-SIDE ACCELERATION)
 A-O DATA SAE CLASS 180



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 36 PROCESSED 8 AP 85 20:06

(2ND INTEGRAL PASS-SIDE ACCELERATION)



RELEASED BY: *D/f*
39 PROCESSED 8 APR 65 20107

COMPUTED STRIKING BARR-MID DISPLACEMENT

TEST DATE: 04-C4-85

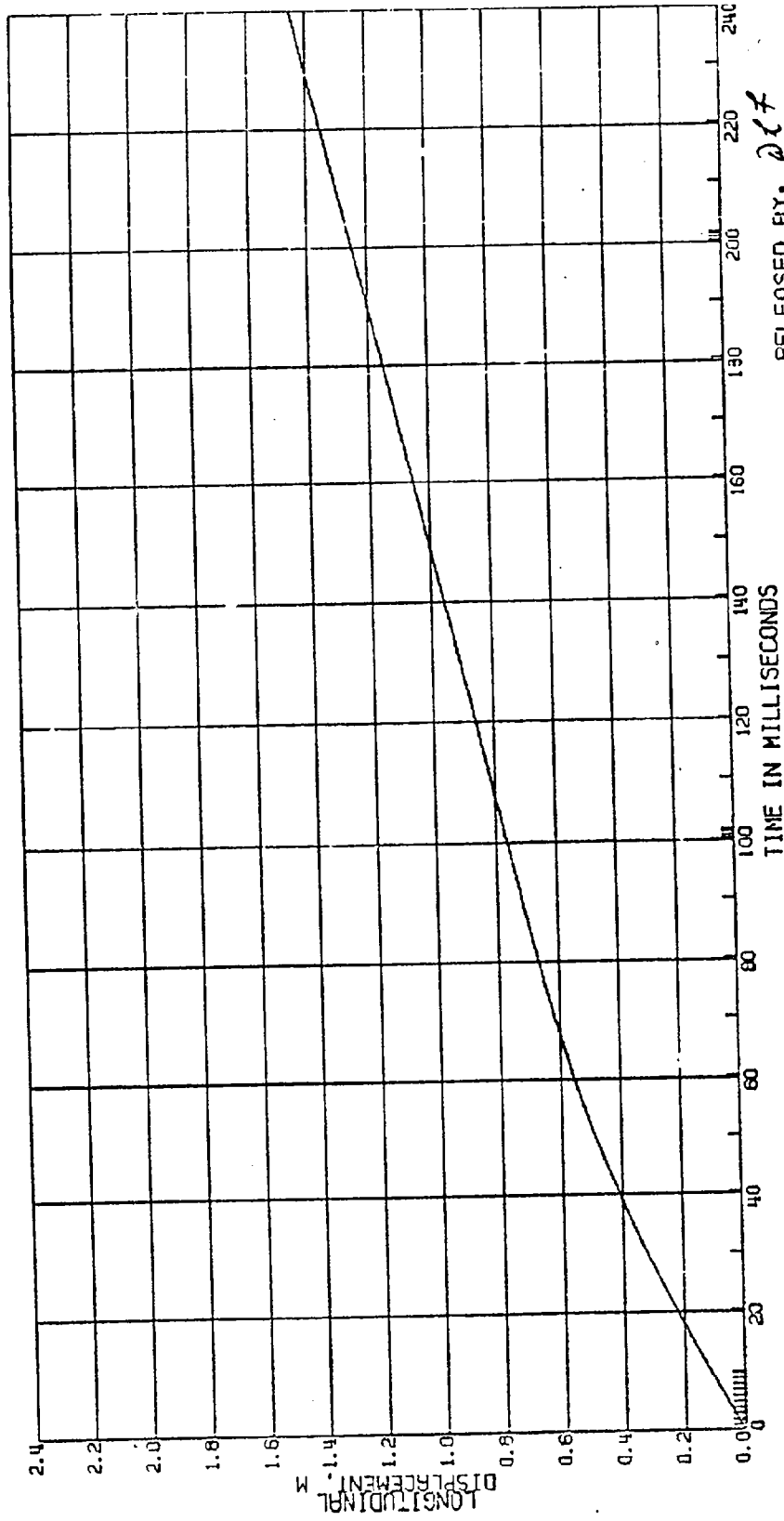
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3865-075

FB-CPC (STRIKING NHTSA BARRIER)

(2ND INTEGRAL AVERAGED ACCELERATION)

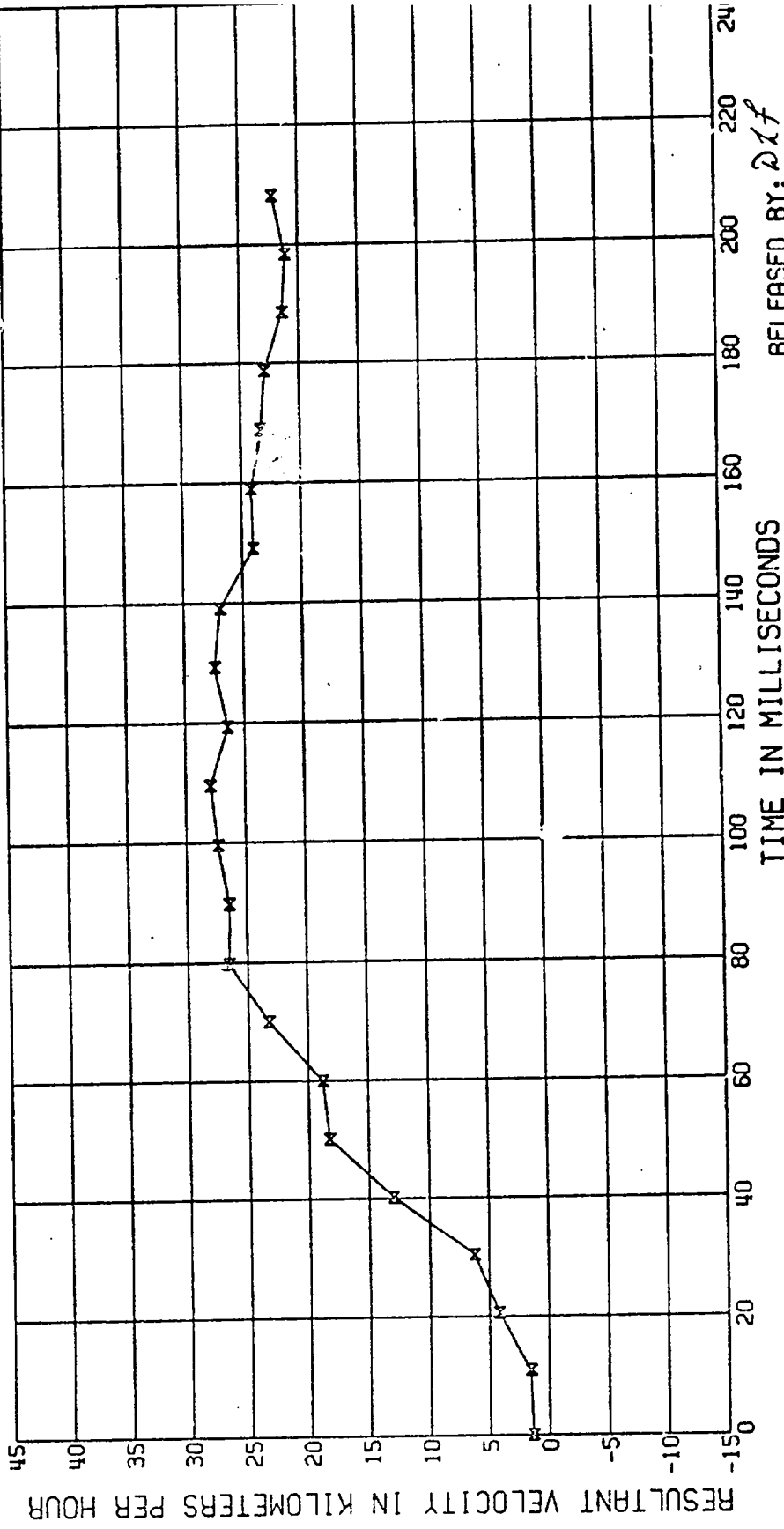
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VELOCITY CALCULATED FROM SMOOTHED X-Z RESULTANT DISP. DATA

STRUCK VEH TARGET RELATIVE TO GROUND REFERENCE



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11 PROCESSED 9 APR 65 19:31

3865-075
FISHER CPC
FILM DATA

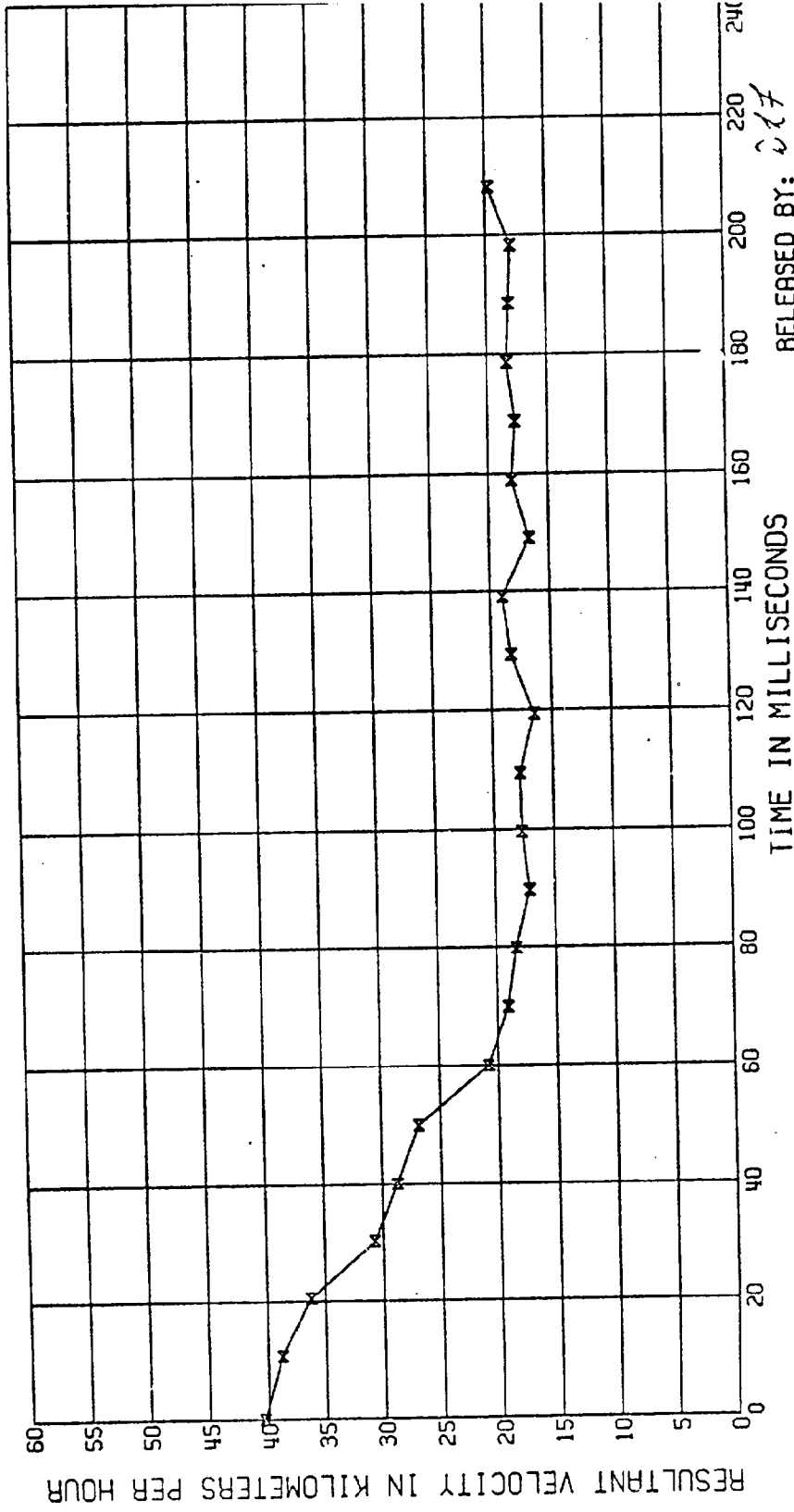
CC464 3JC77

OVERHEAD VIEW

TEST DATE: 04-04-85

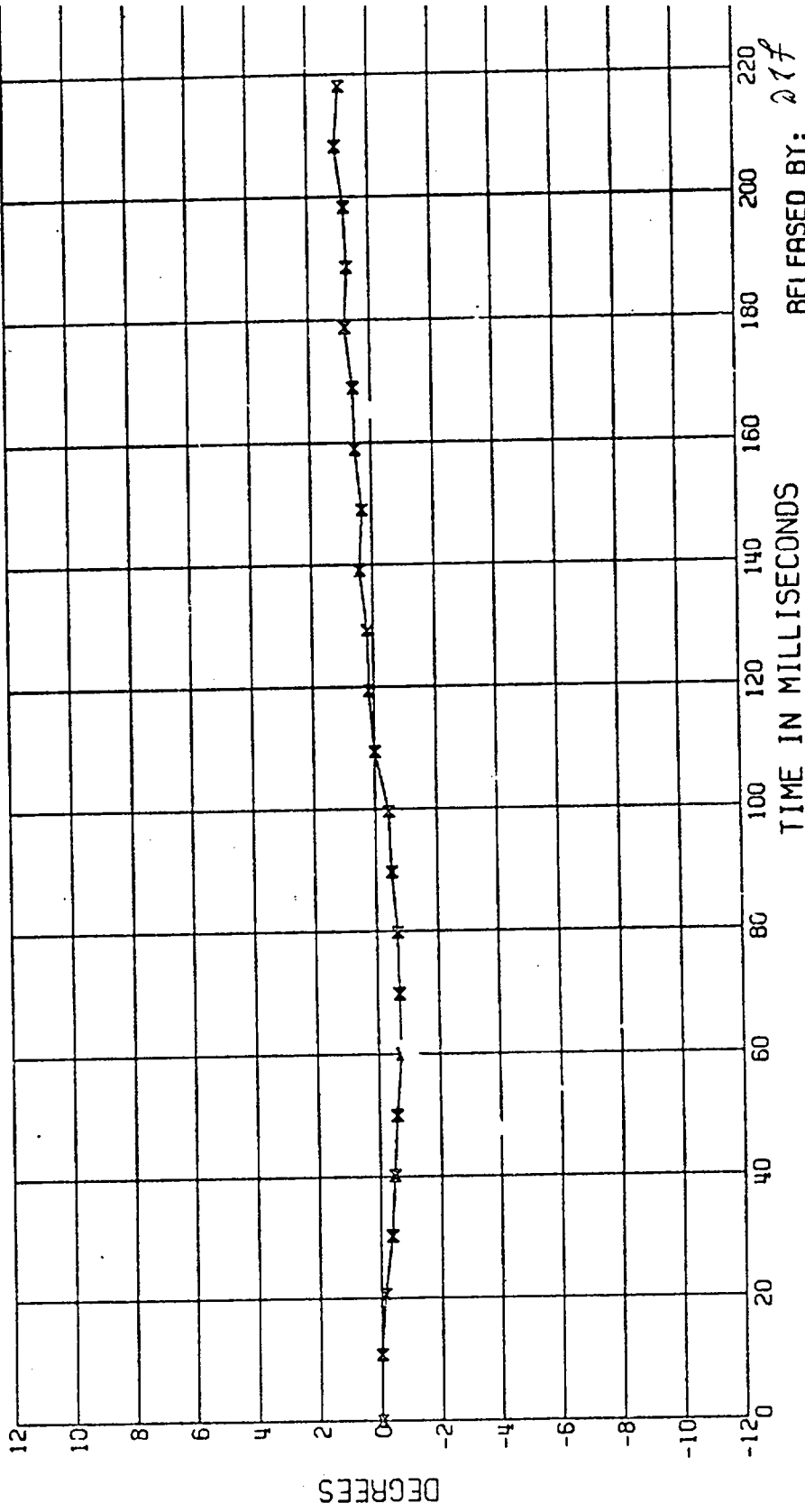
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NHTSA BARR. TARGET RELATIVE TO GROUND REFERENCE



RELEASED BY: *227*
3 PROCESSED 9 APR 85 19:30

STRUCK VEHICLE YAW RELATIVE TO GROUND REFERENCE



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1 PROCESSED 9 APR 85 19:29

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386
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A-1

LONGITUDINAL

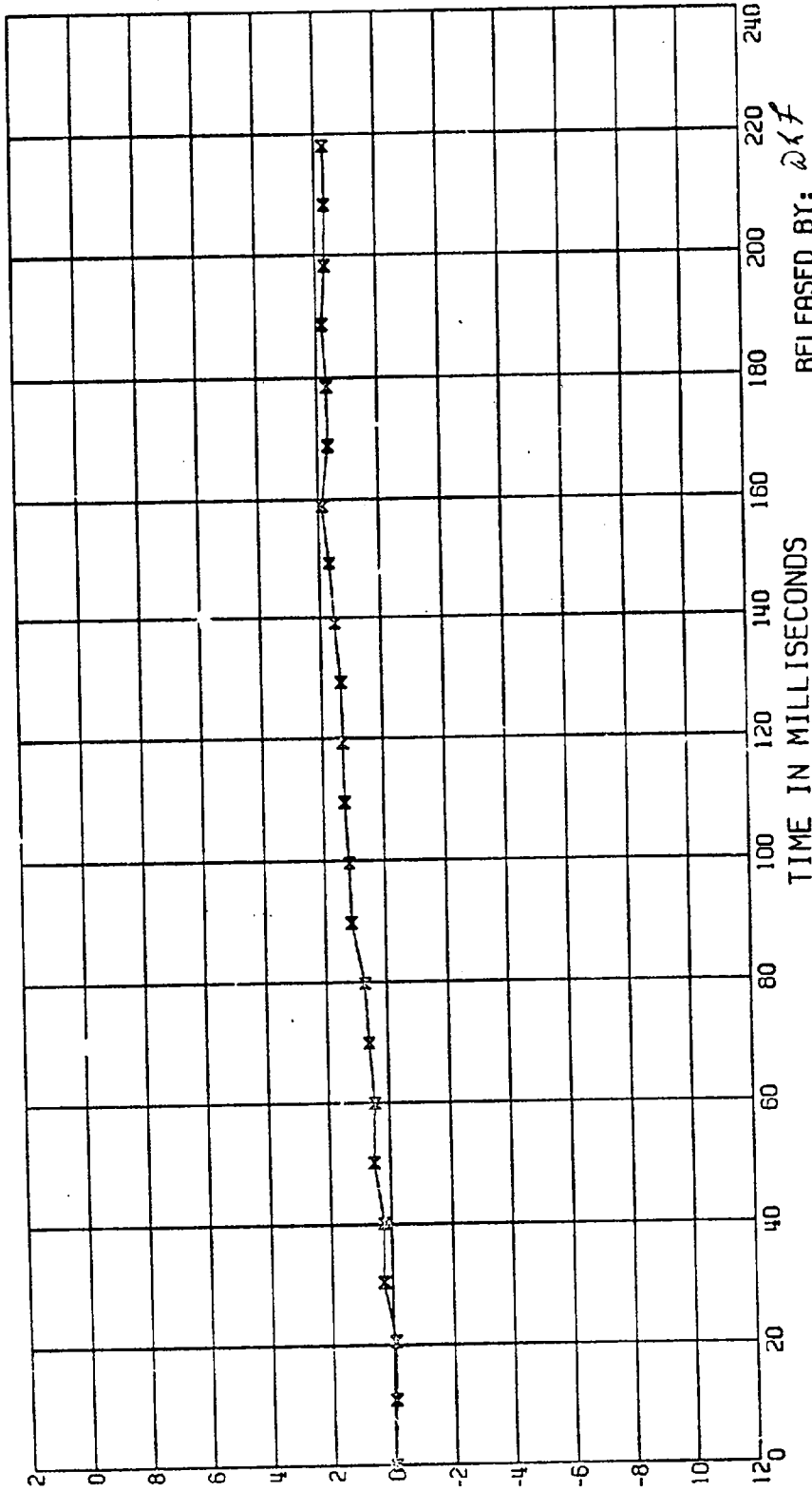
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5 RIGHT SIDE IMPACT
365-075
ER CPC
DATA

MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 114

CC464 3JC77
OVERHEAD VIEW
TEST DATE: 04-04-85

NHTSA BARR. YAW RELATIVE TO GROUND REFERENCE



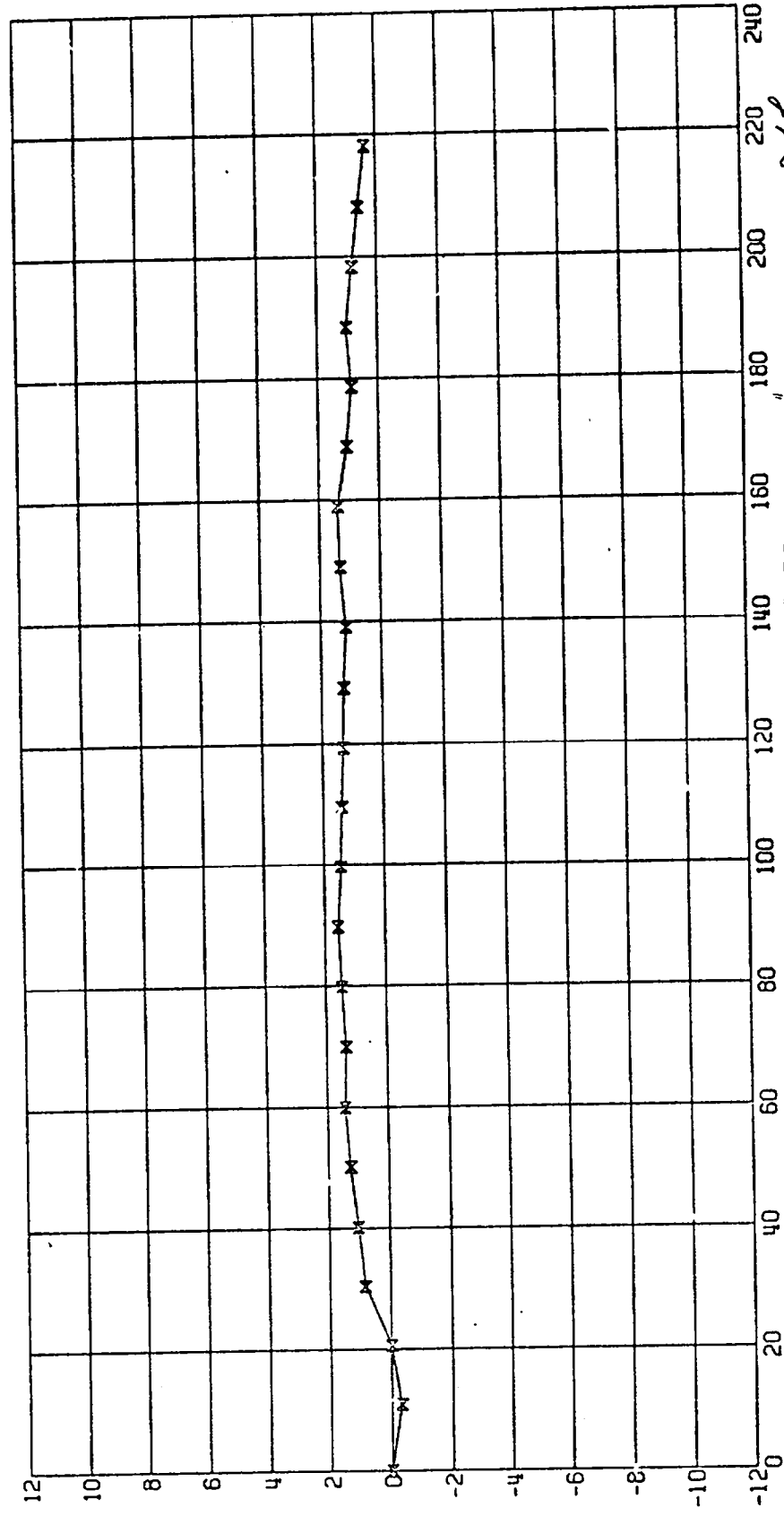
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185 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 115

3865-075
SHER CPC CC464 3JC77
LM DATA

OVERHEAD VIEW
TEST DATE: 04-04-85

NHTSA BARR. YAW RELATIVE TO STRUCK VEHICLE YAW



RELEASED BY: DJF
5 PROCESSED 9 APR 85 19:30

MOVING BARRIER TO PARKED VEHICLE 41.3KM/H FIGURE 116

TEST DATE: 04-04-85

OVERHEAD VIEW

VELOCITY CALCULATED FROM SMOOTHED X-Z RESULTANT DISP. DATA

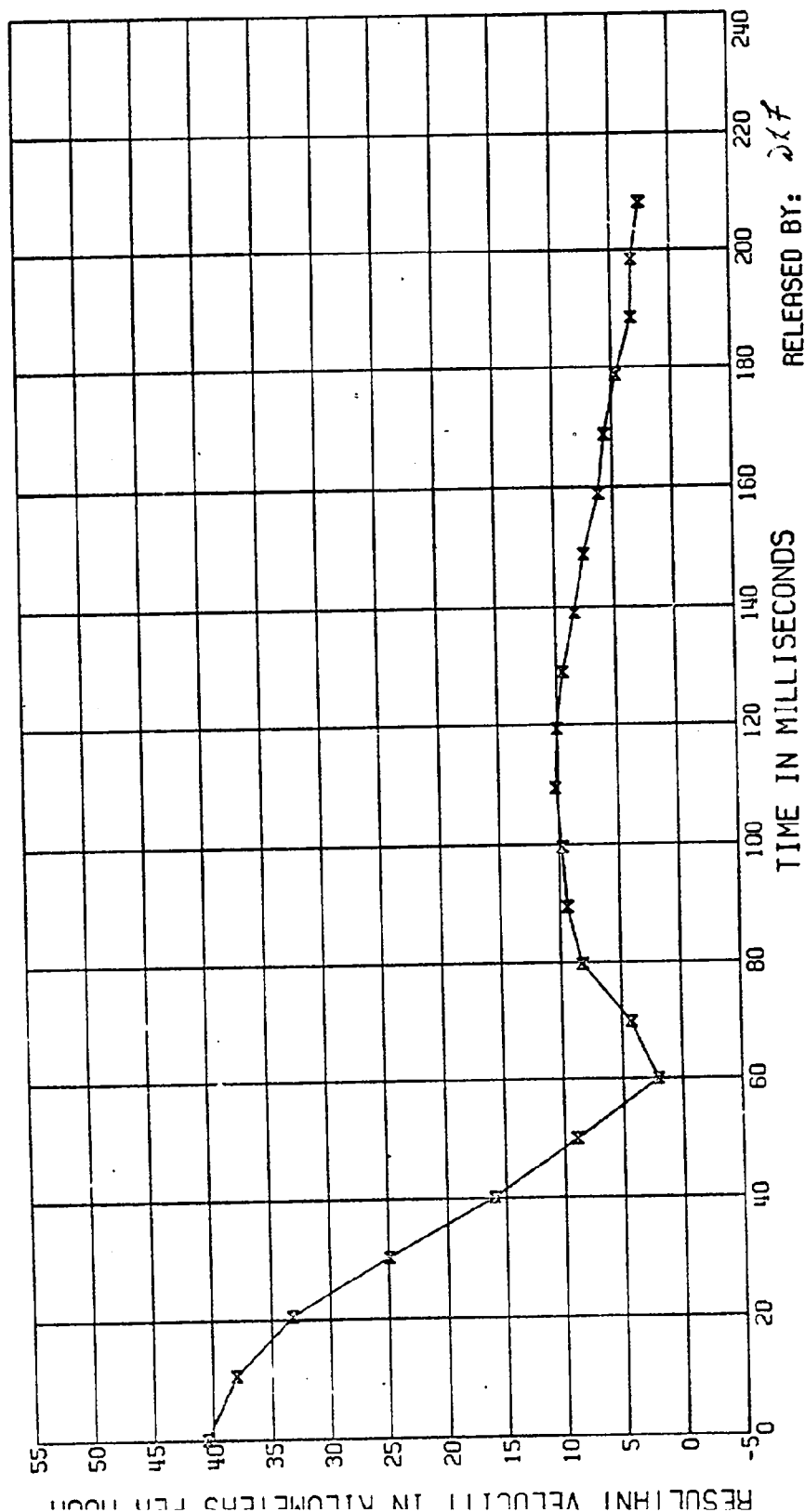
NHTSA BARR. TARGET RELATIVE TO STRUCK VEH TARGET

6185 RIGHT SIDE IMPACT

3865-075

CC464 3JC77

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MOVING BARRIER TO PARKED VEHICLE 41.3MM/M FIGURE " "

TEST DATE: 04-04-85

OVERHEAD VIEW

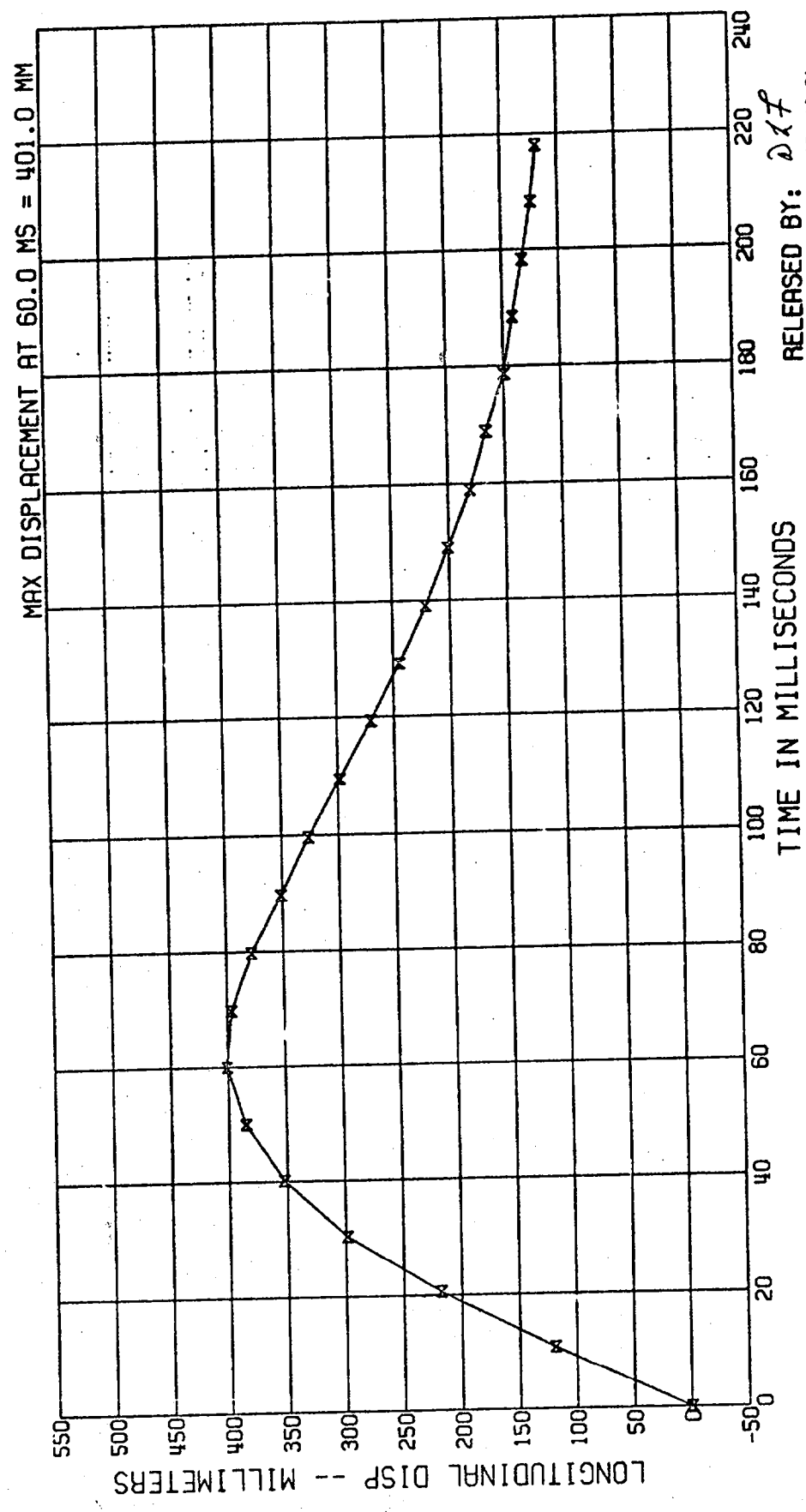
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3865-075

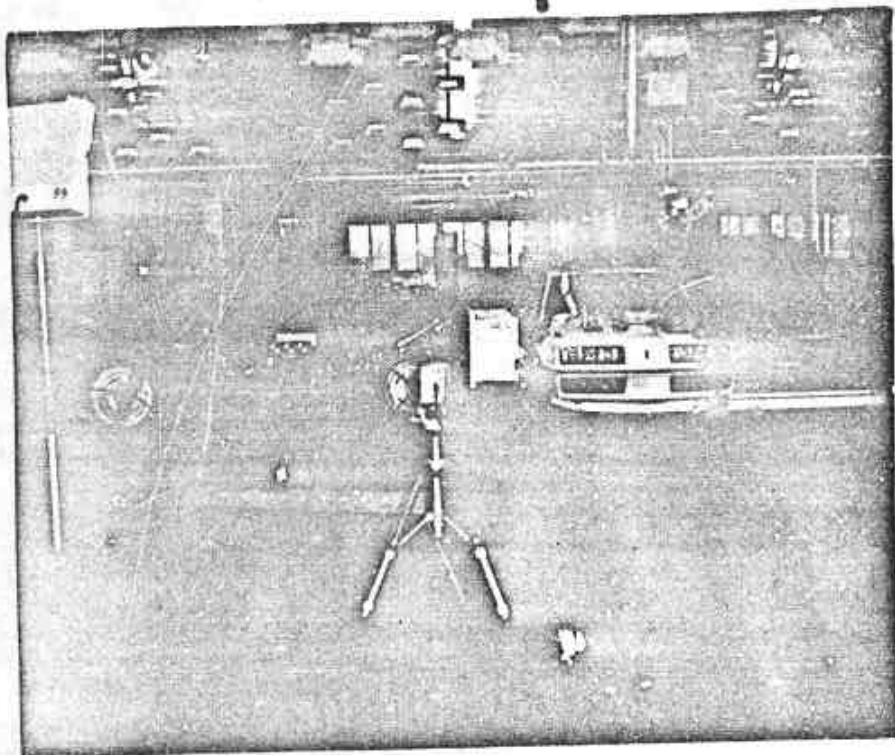
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FISHER CPC
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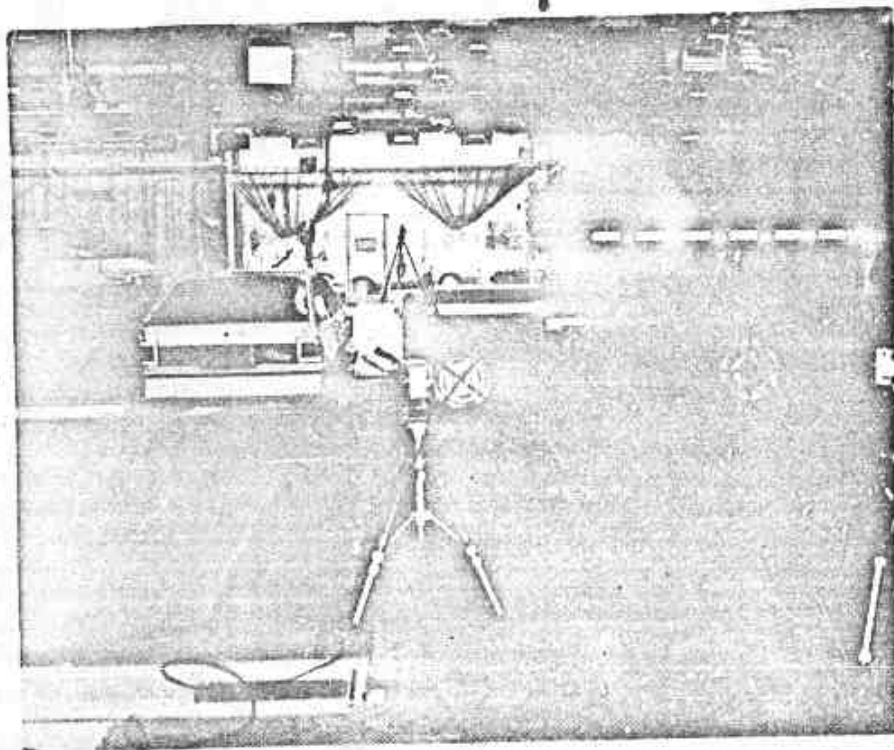
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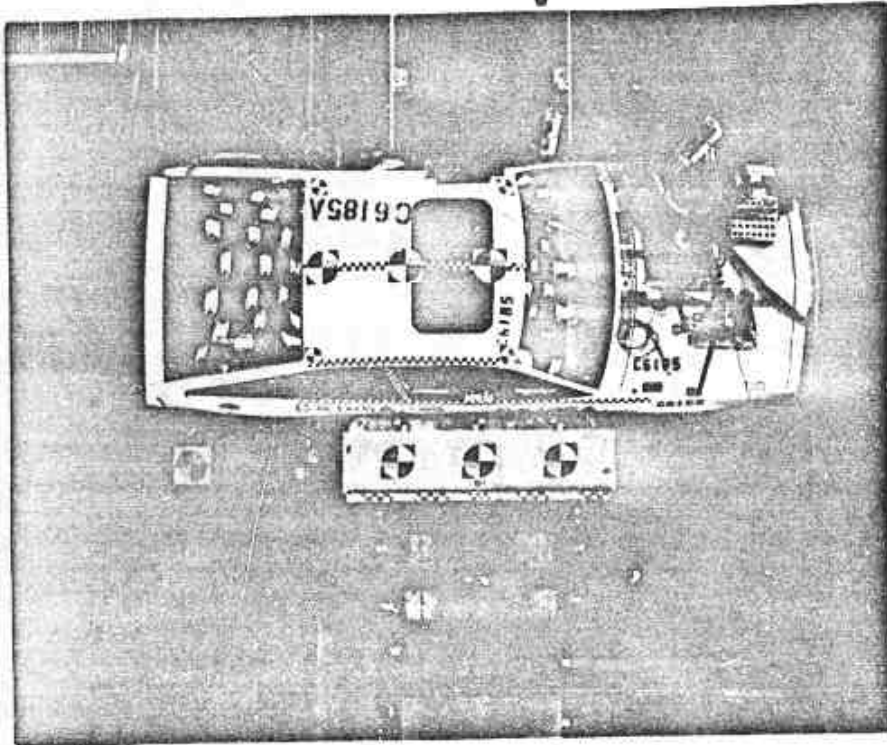
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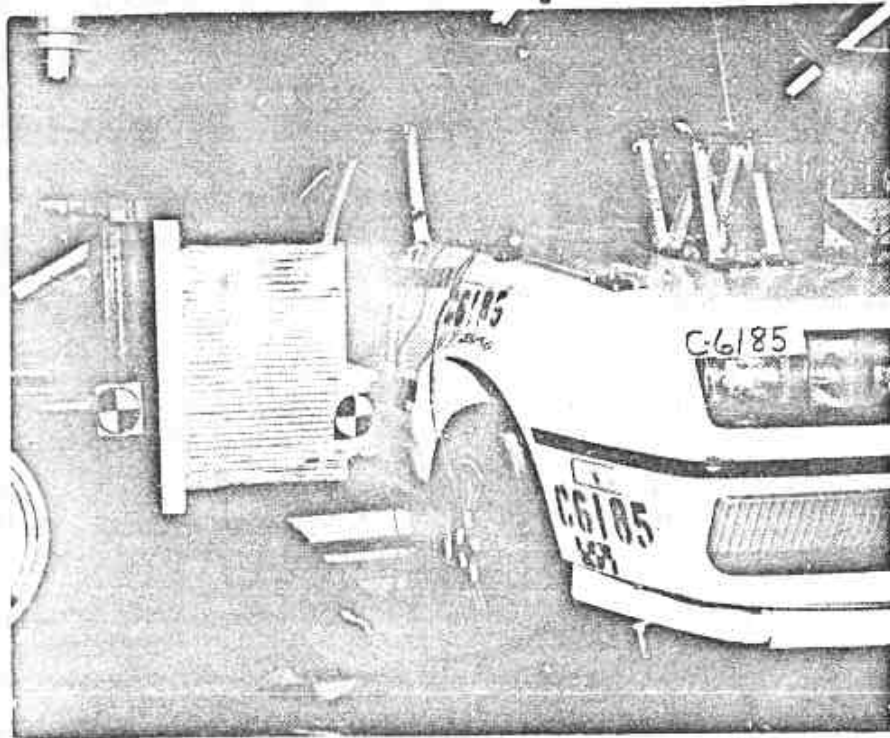
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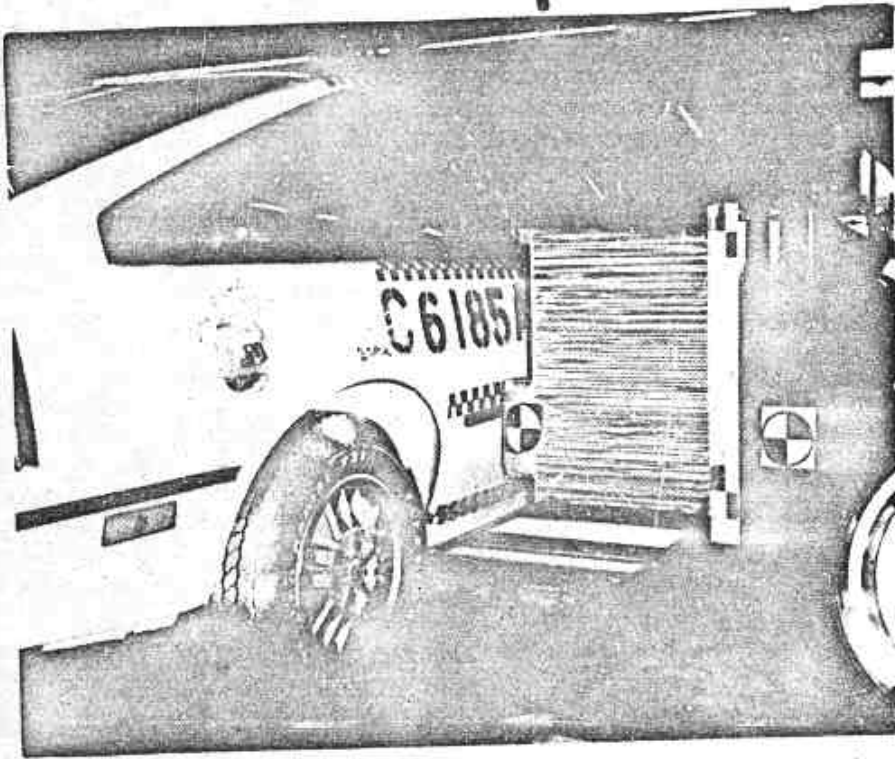
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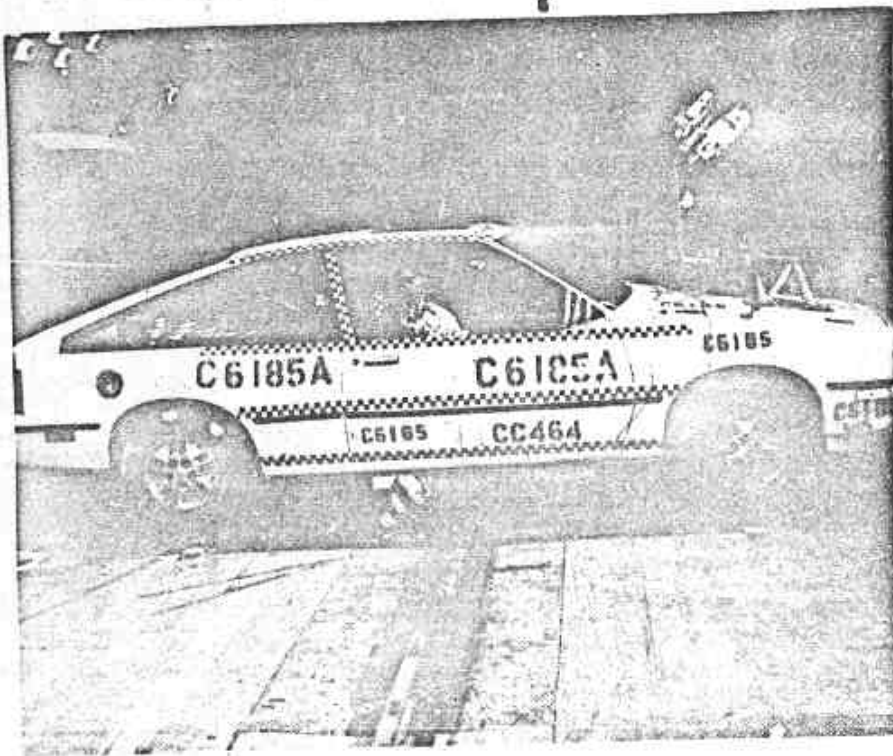
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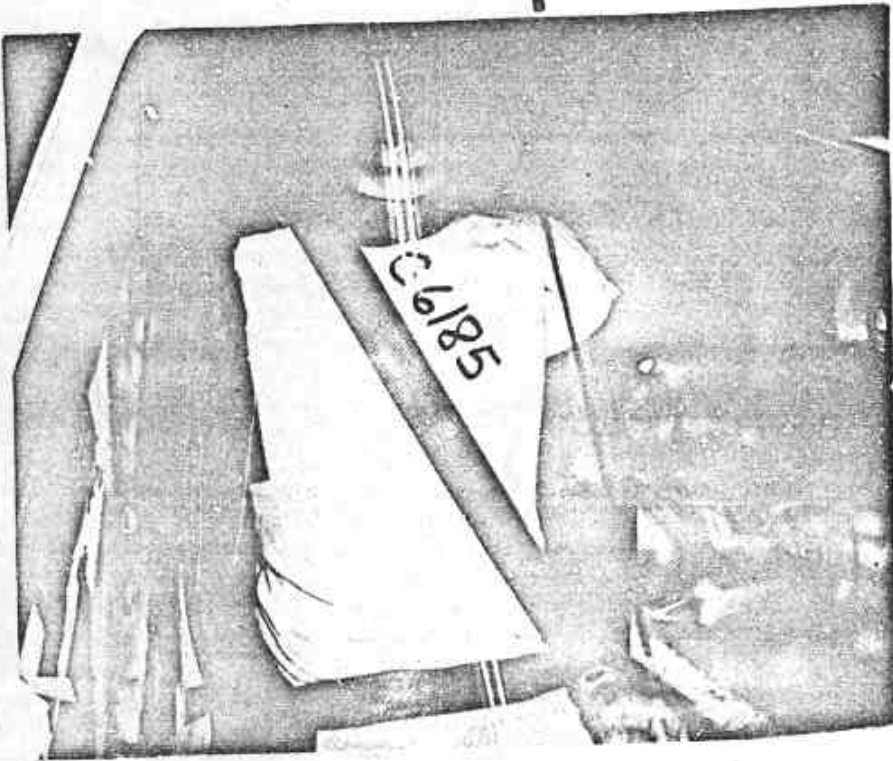
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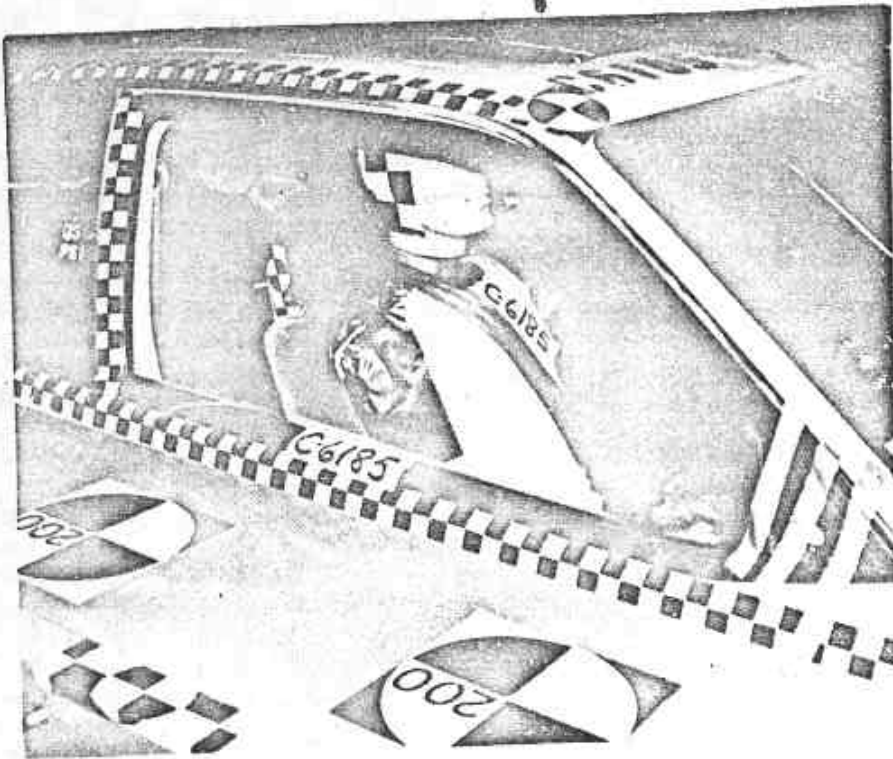
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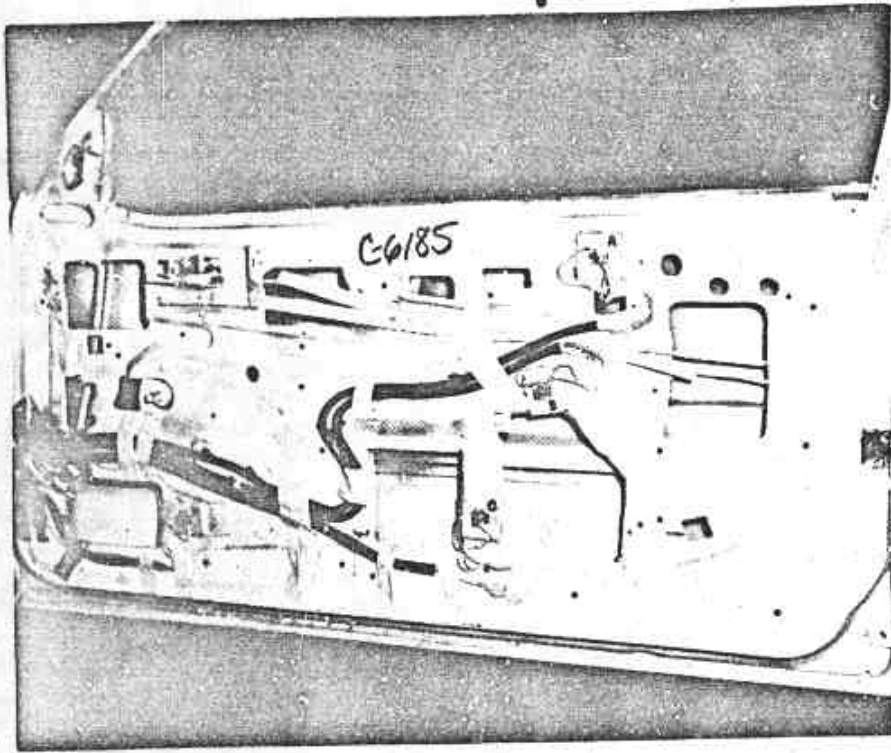
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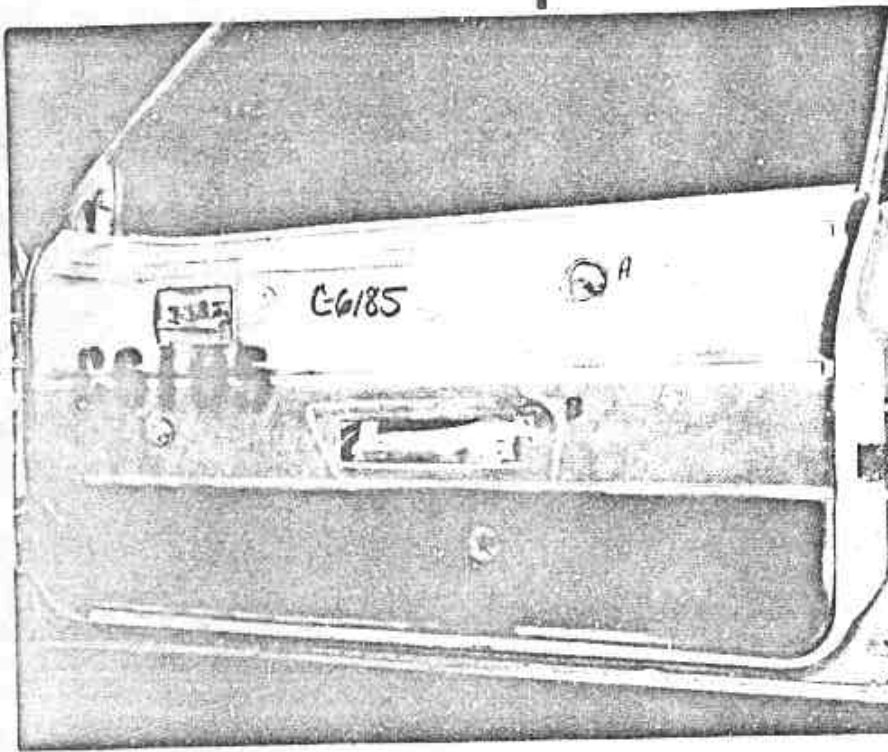
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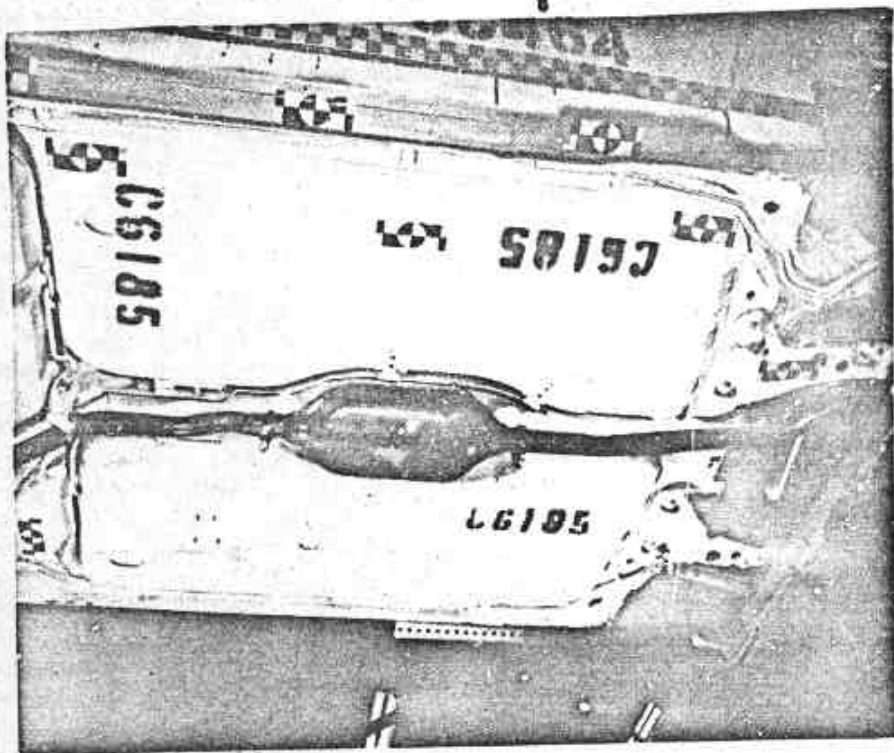
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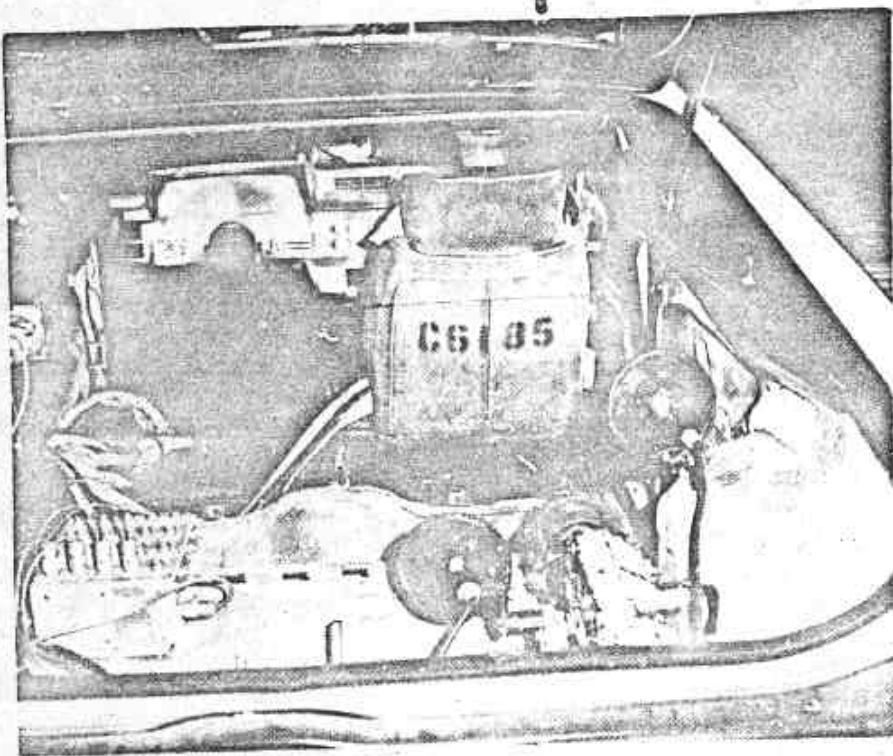
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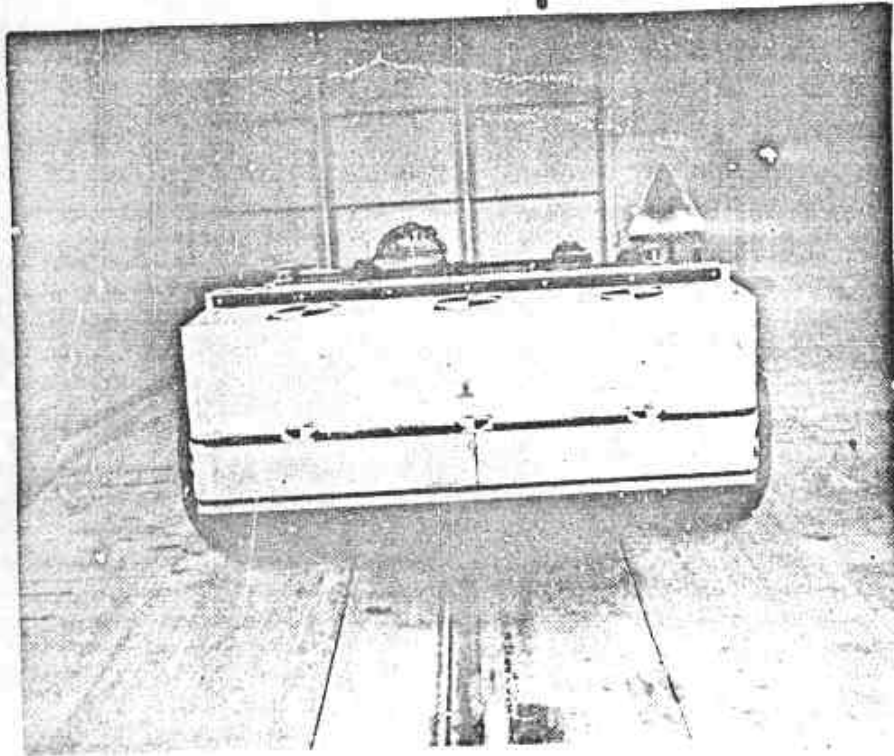


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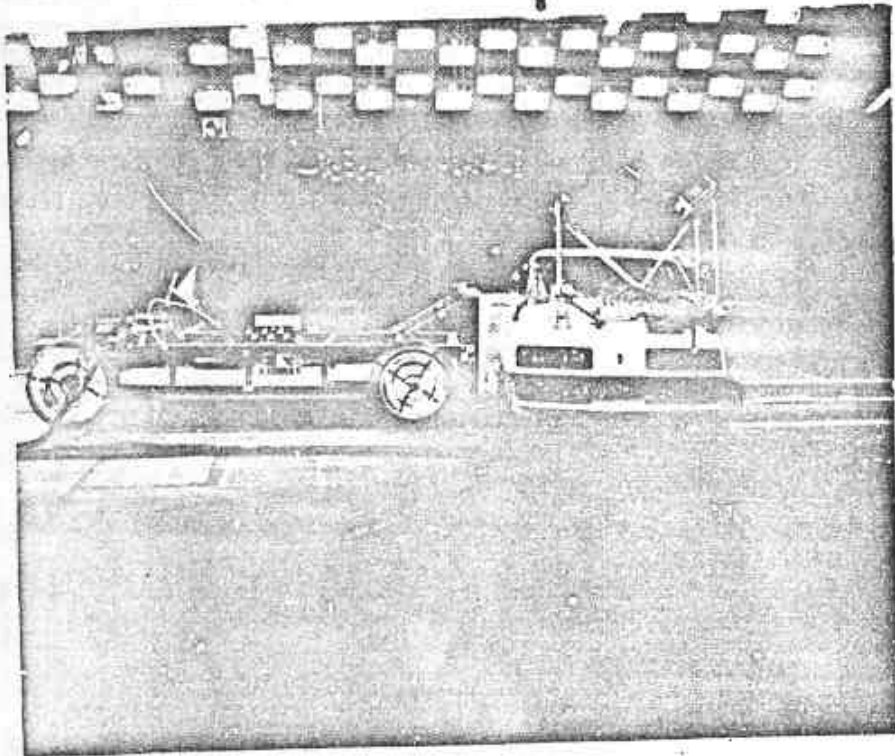


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9/31

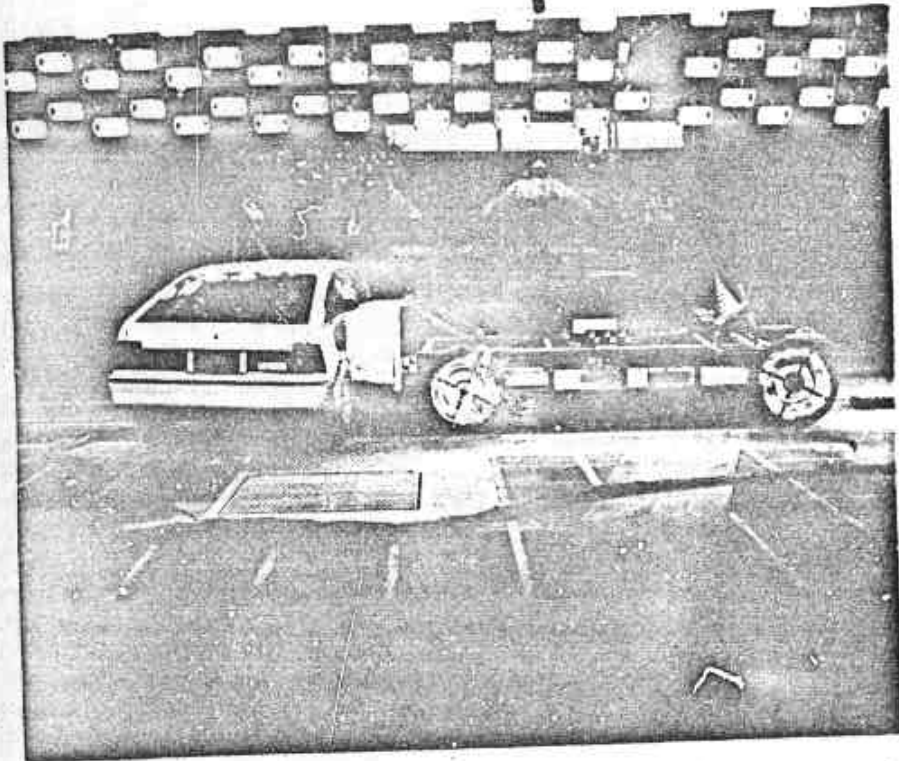


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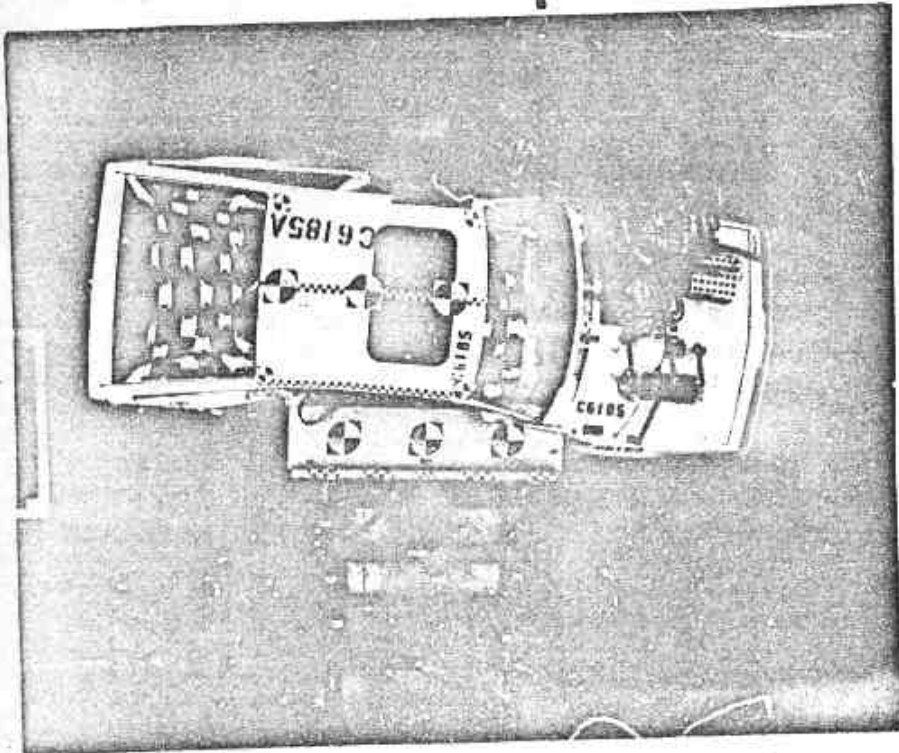


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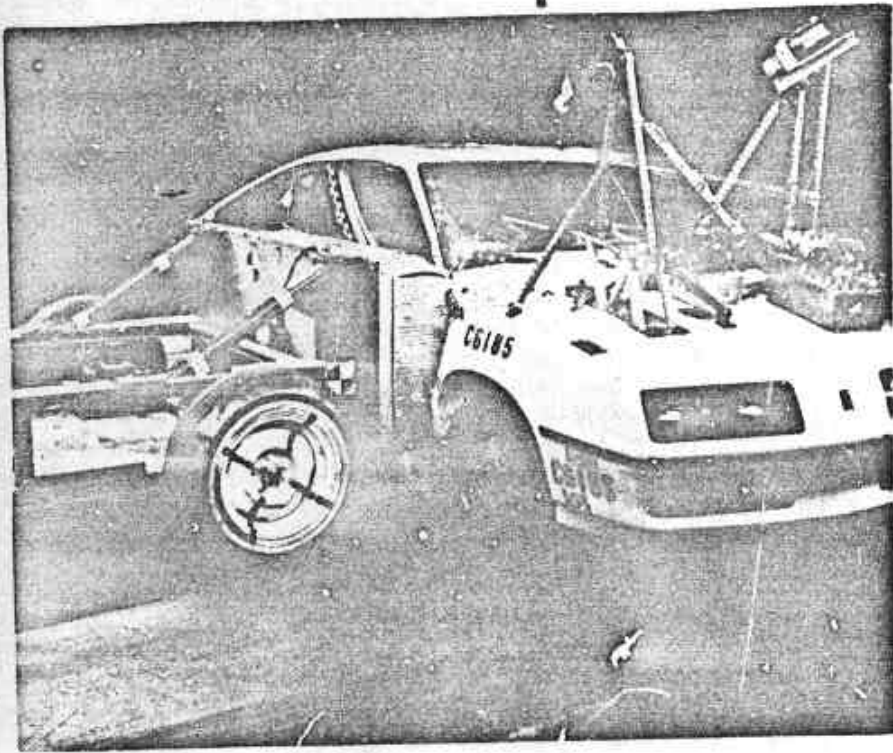


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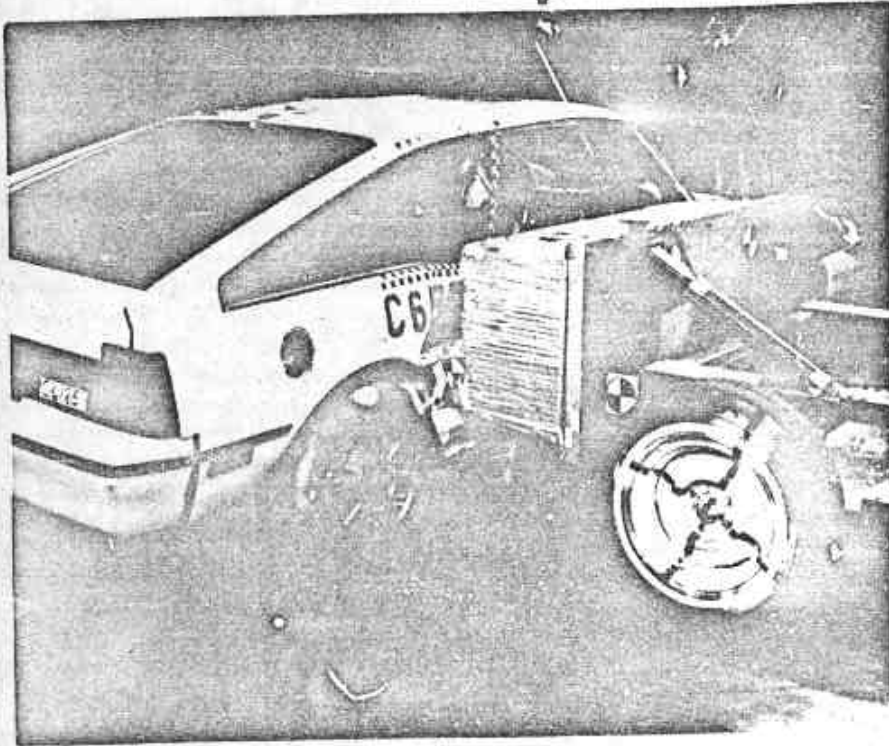


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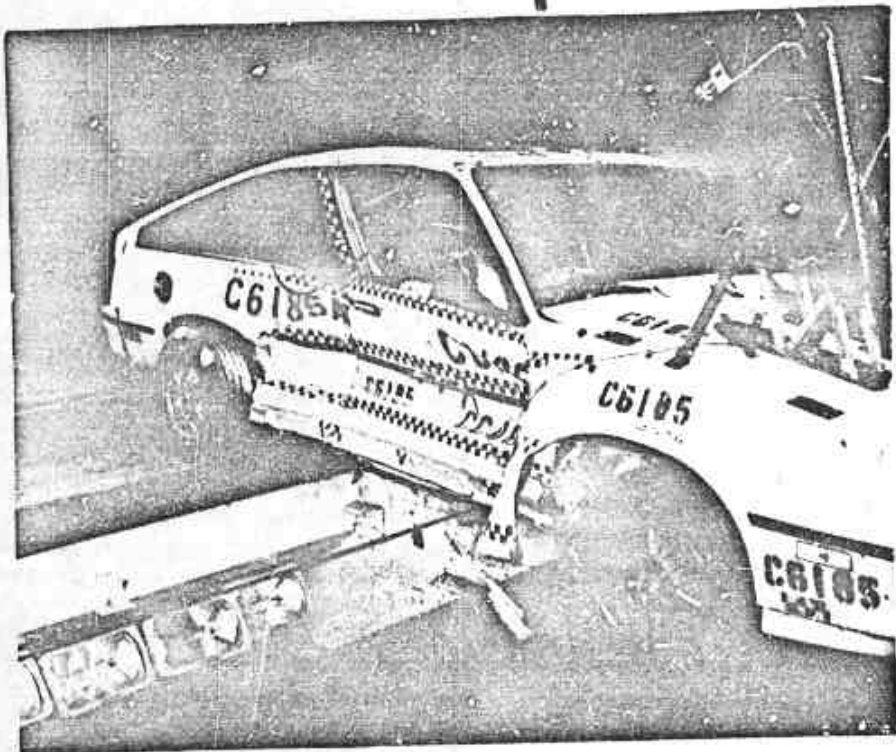


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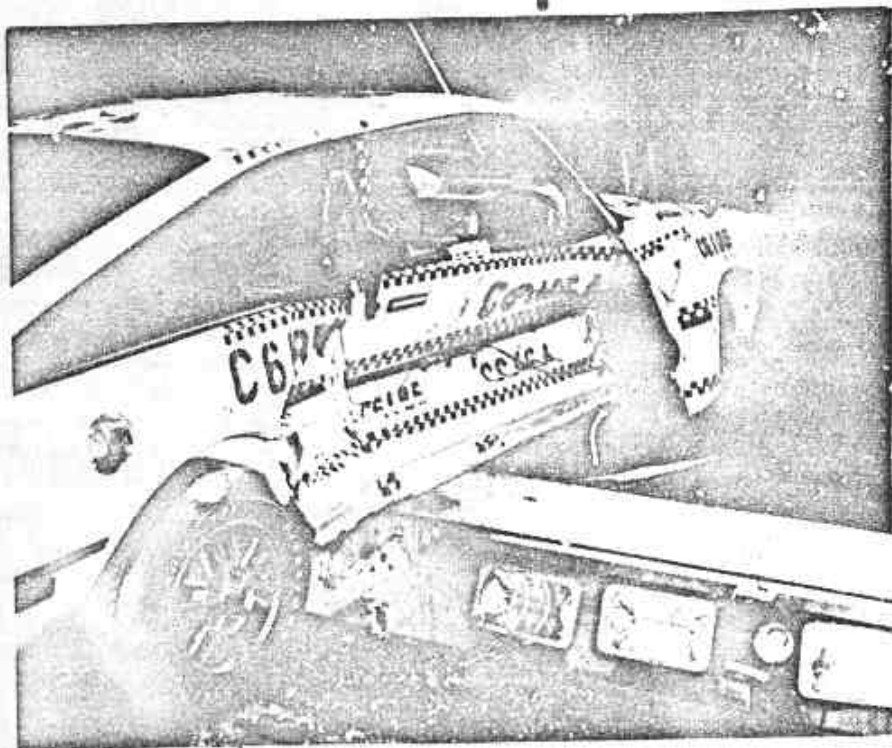
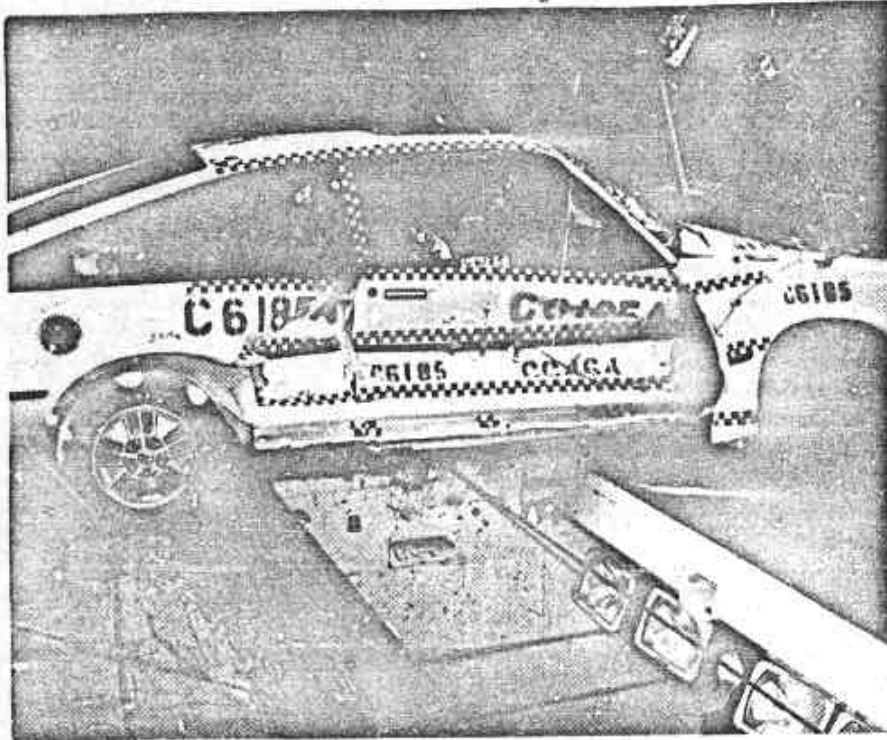


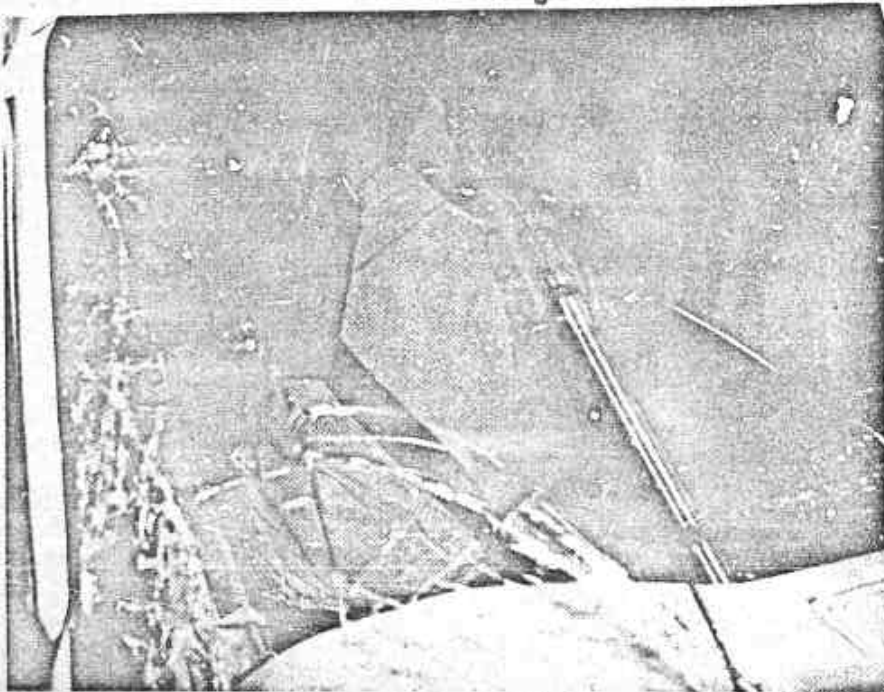
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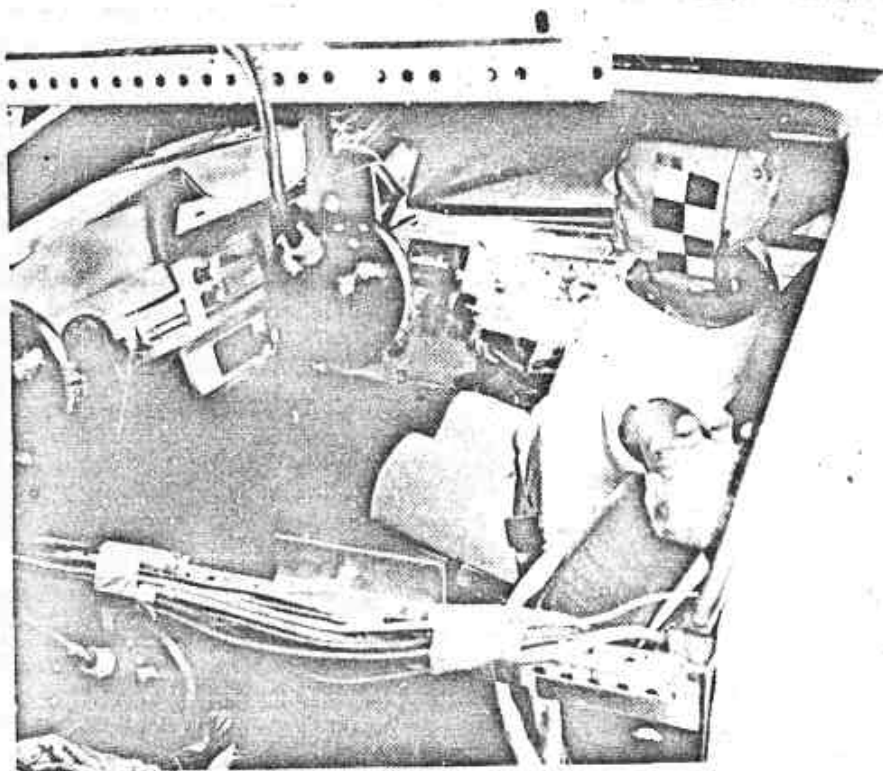
CPE-054 9-83



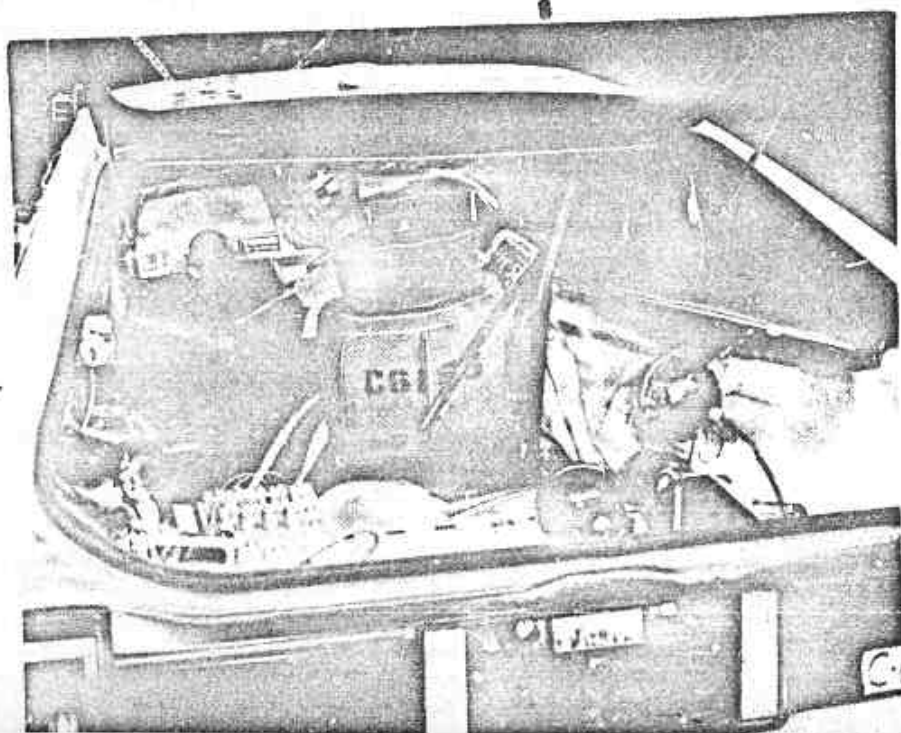
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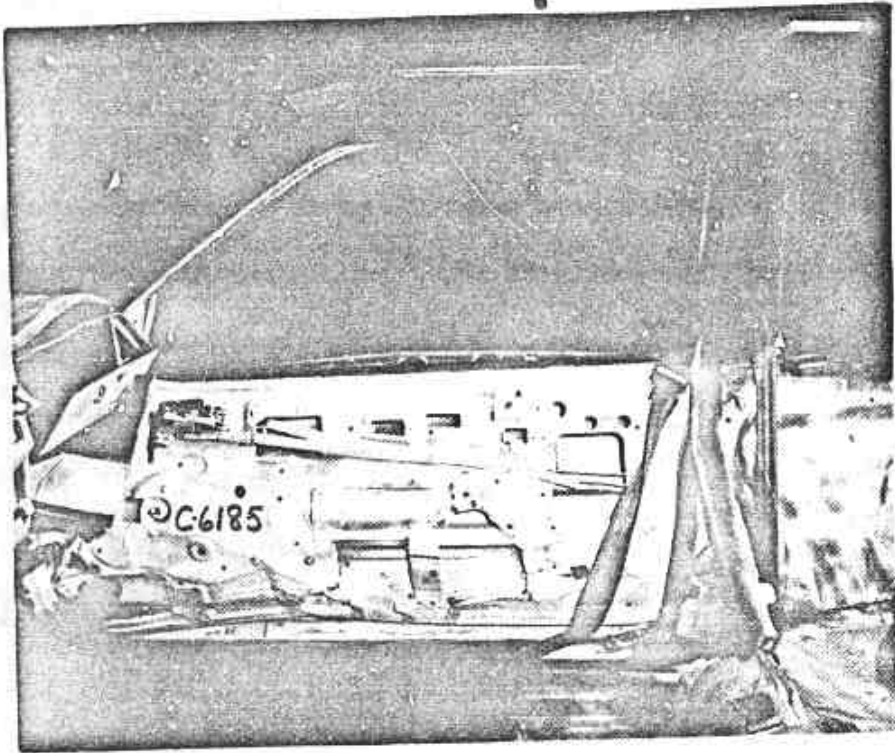


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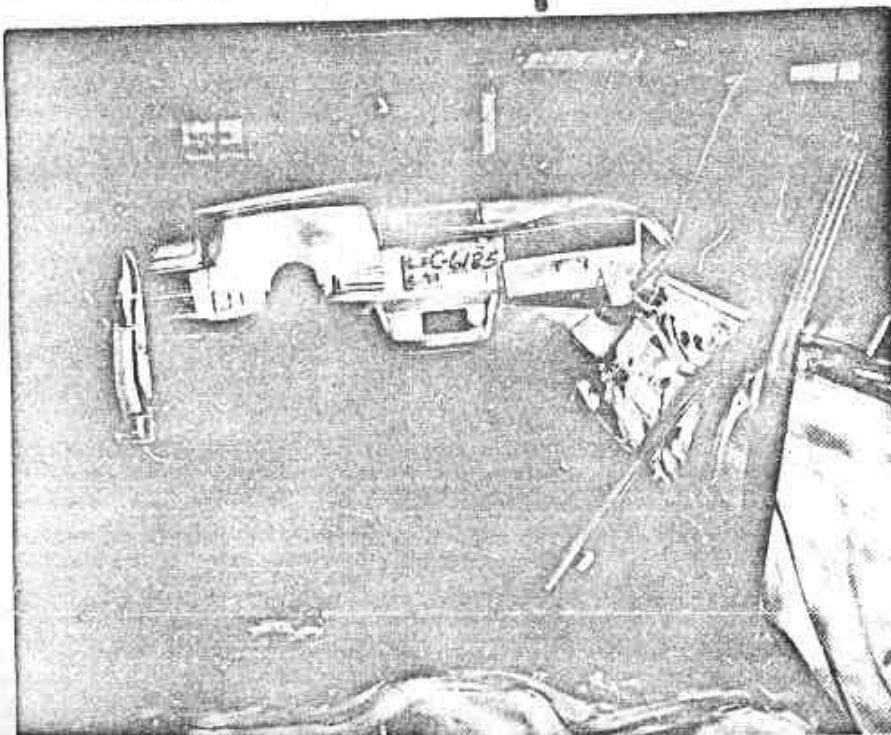


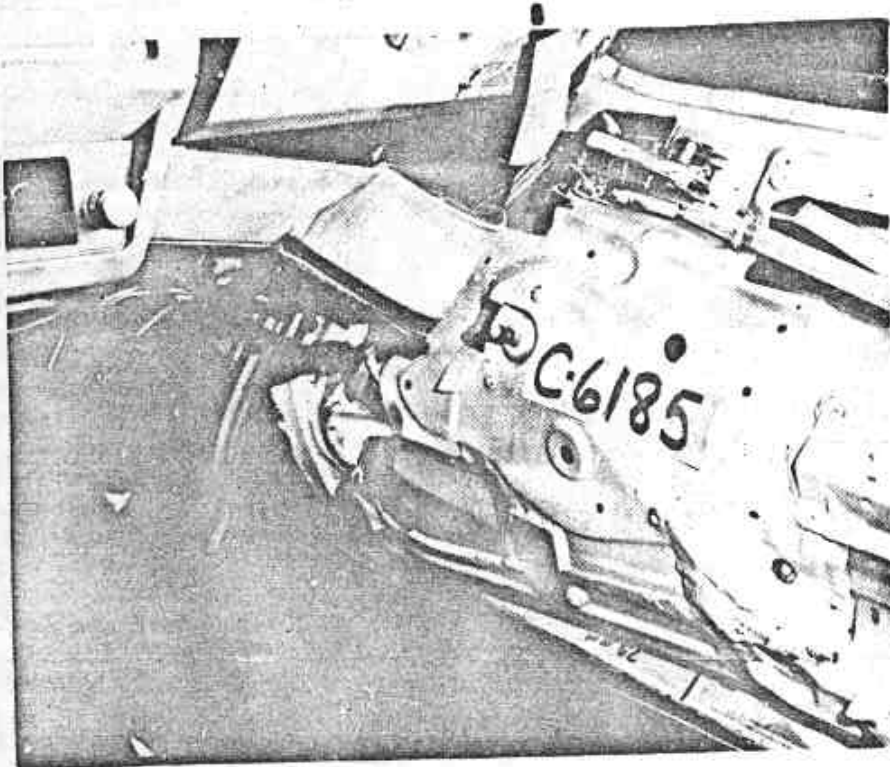
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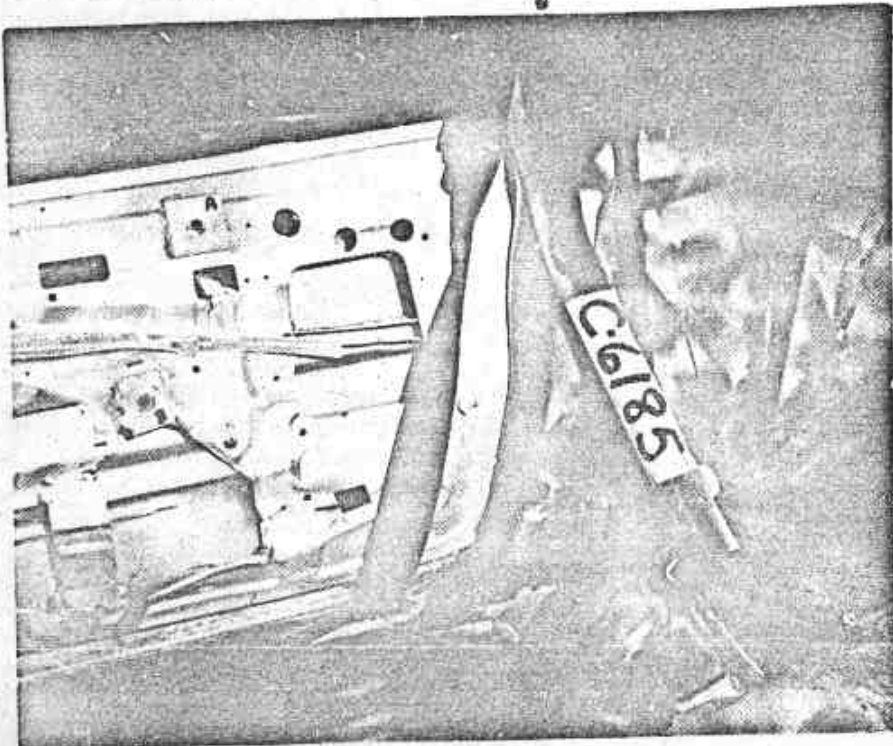


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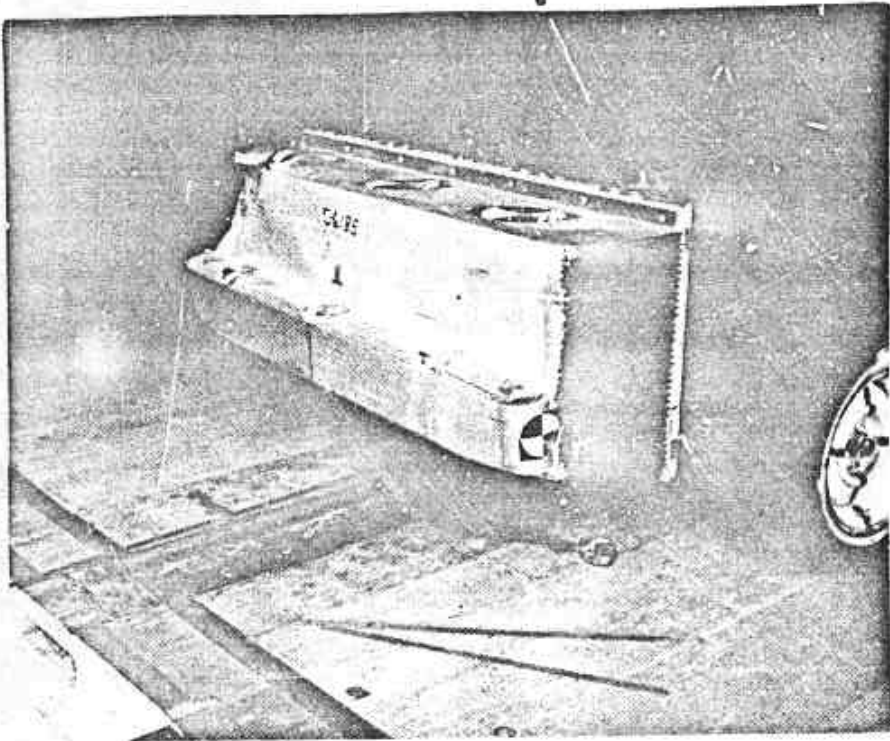




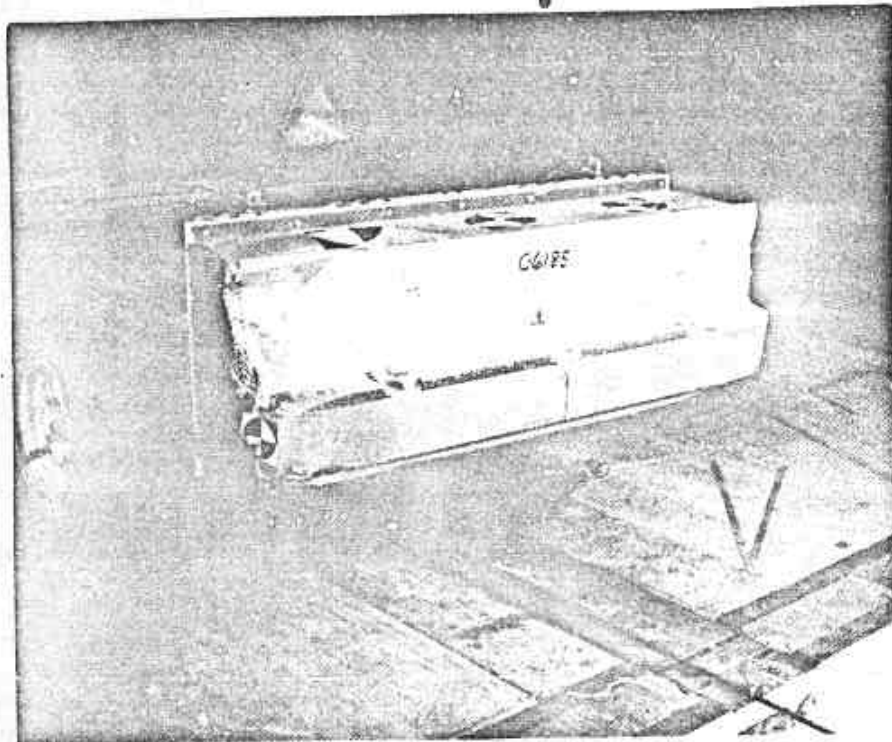
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Document No.	Fig. No.
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