

1083



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

REPORT NO. PG 48190 DATE July 1, 1985

PASSENGER CAR

TEST NO. C-6192



TEST REPORT

PAGE NO. 1

TYPE IMPACT

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

REPORT NO. PG
 SRDL TEST NO. C-6192
 TEST DATE 4/11/85

VEHICLE DESCRIPTION

MAKE	YEAR	BODY TYPE	BODY STYLE	DIVISION CAR NUMBER	BUILD STATUS	
Oldsmobile	1982	J-body	3JC77	CC452	*Modified Production	
ENGINE	CONFIGURATION	L4	DISPLACEMENT	1.8 L	SEAT	
	FUEL	Gasoline				STYLE
	FUEL INDUCTION	Throttle body injector				Passenger seat only, bucket.
SPARE TIRE	TYPE	Removed for test				
FUEL TANK	USABLE CAP NA	L	UNUSABLE CAP NA	L	ADJUSTER TYPE	
STRG. COL.	TILT OPTION YES	NO X	T&T OPTION YES	NO X	Manual	
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 hinges with modified 'C' hinges and passenger side door arm rest removed.						

TEST CONDITIONS

VEHICLE		DUMMIES	
VELOCITY AT IMPACT	0 km/h	MAKE	NO.
TEST MASS		TYPE	MASS kg
LESS DUMMIES <input type="checkbox"/>	FRONT 842 kg	RESTRAINT	
INCLUDING DUMMIES <input checked="" type="checkbox"/>	REAR 489 kg	LAT. POS.	mm RELATIVE TO
	TOTAL 1331 kg	MAKE *HSRI (SID)	NO. 1
ENGINE RUNNING YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		TYPE	50th %ile Male MASS 77.4 kg
FUEL TANK	TEST VOLUME: CONTENTS Empty	RESTRAINT	Lap/Shoulder
	% OF USABLE CAPACITY = -	LAT. POS.	334 mm RELATIVE TO Vehicle
FUEL LINES & CARBURETOR	FILLED YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	MAKE	NO.
STEERING COLUMN	TILT POSITION Column removed for test	TYPE	MASS kg
	TELESCOPE POSITION NA	RESTRAINT	
SEAT	POSITION MID	LAT. POS.	mm RELATIVE TO
HEAD REST	POSITION DOWN	TEST CONFIGURATION:	
VEHICLE ATTITUDE	J= DRIVER SIDE 226 mm PASSENGER SIDE 226 mm	See Page 2 for Test Configuration	
	K= DRIVER SIDE 224 mm PASSENGER SIDE 226 mm		
COMMENTS:			

RECORDED DATA

VEHICLE DATA		DUMMY DATA	
ROCKER PANEL AVERAGE ACCELERATION	FRAME ACCELERATION	HEAD TRIAXIAL ACCELERATION	DR RF
FLOOR PAN AVERAGE ACCELERATION	ENGINE ACCELERATION	CHEST TRIAXIAL ACCELERATION	X
BARRIER FACE LOAD CELLS		CHEST DEFLECTION	
STEERING COLUMN DISPLACEMENT		PELVIC TRIAXIAL ACCELERATION	X
RADIATOR TIE BAR ACCELERATION		FEMUR LOAD	
COWL ACCELERATION		OUTBOARD LAP BELT LOAD	
CRASH SENSORS		SHOULDER BELT LOAD	
STEERING COLUMN COMPRESSION		NECK LOADS	
VOLTAGES		SPINE TRIAXIAL ACCEL.	X
CURRENTS		DUMMY CONTACTS	X
TOE PAN DISPLACEMENT		RIB LATERAL ACCELERATION	X
"A" PILLAR DISPLACEMENT		RIB LATERAL DISPLACEMENT	X

PHOTOGRAPHIC COVERAGE

OFFBOARD	DRIVER SIDE	PASSENGER SIDE	X OVERHEAD	X HOOD	GLOVE BOX
ONBOARD	UNDERBODY X	FUEL TANK	OVERALL	DOCUMENTARY X	IMPACT AREA X
OTHER	UNDERDASH	DRIVER	RIGHT FRONT PASSENGER	STEERING COLUMN	RT FRONT DOOR X

NA NOT APPLICABLE ND NOT DETERMINED

RECORDED VEHICLE DATA

(STRUCK VEHICLE)

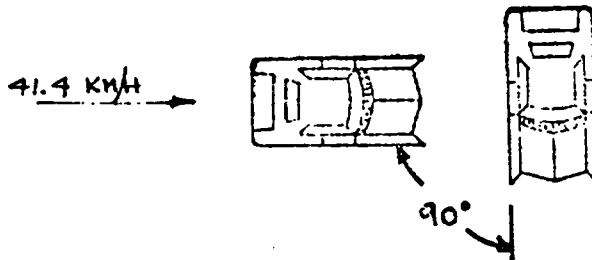
- o Right side door triaxial accelerations at Points A, B, C, and D
- o Driver side door lateral acceleration at Point A'
- o Right side 'B' pillar lateral displacement
- o Driver side floorpan triaxial acceleration
- o Right side trunk triaxial acceleration

(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 DESCRIPTION [HSRI(SID)]

HSRI side impact dummy thorax with 1984 updates, a Hybrid II head, neck, pelvis, lumbar and legs. The dummy was instrumented with an upper and lower spine accelerometer, upper and lower rib accelerometer, upper rib string potentiometer, pelvis accelerometer and head accelerometer.

Total dummy weight was 77.4 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.

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 side door - inner panel, inner surface.	450 rwd, 504 up	_____
A'	Driver side door - inner panel, inner surface.	450 rwd, 504 up	_____
B	Right side door - inner panel, inner surface.	376 rwd, 349 up	_____
C	Right side door - inner panel, inner surface.	303 rwd, 194 up	_____
D	Right side door - inner panel, inner surface.	102 rwd, 169 up	_____
	Center 'B' pillar - inner panel, right side at beltline.	ND	
	Floorpan inner surface - driver side.	ND	
	Trunk inner surface - passenger side.	ND	



POST-TEST OBSERVATIONS

STRIKING VEHICLE
 STRUCK VEHICLE

REPORT NO. PG. _____
 SSDL TEST NO. C-6192

		YES	NO	PARTIAL	OTHER	FIG.	NOTE
FRONT SHEET METAL	HOOD LATCH (S) REMAINED ENGAGED - PRIMARY	X				134	
	HOOD LATCH (S) REMAINED ENGAGED - SECONDARY	X				134	
	HOOD HINGE ASSEMBLIES INTACT	X					
	HOOD HINGE REMAINED ATTACHED	X					
	FENDERS REMAINED ATTACHED TO BODY			X			
	FRONT SHEET METAL CONTACTED WINDSHIELD DAYLIGHT OPENING SURFACE			X			
FRONT SHEET METAL PERETRATED WINDSHIELD PLASTIC LAMINATE IN DAYLIGHT OPENING AREA							
DOORS	ALL EXTERIOR DOORS REMAINED CLOSED	X					
	ALL EXTERIOR DOORS REMAINED LATCHED	X				136	
	ALL EXTERIOR DOOR HINGES REMAINED INTACT	X					
INTERIOR	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		141	3
	GLOVE BOX DOOR REMAINED CLOSED		X			141	4
DRIVE	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	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					NA		5

(1) DISTANCE MEASURED BETWEEN DOOR OUTER SURFACE AND ADJACENT BODY OUTER SURFACE WHEN 450 N PULL IS APPLIED TO HANDLE.

- 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 separated due to deformation in that area.
 5. Fuel tank was empty for the test.

PAGE NO. 5

SRDL TEST NO. C-6192

VEHICLE DATA

<u>Residual Lateral Displacement</u>	<u>Displacement (mm)</u>
(Door Outer Surface)	
Right Side Door at Occupant Shoulder (Pt. A)	251
Right Side Door at Occupant Mid Torso (Pt. B)	362
Right Side Door at Occupant Hip (Pt. C)	404
Right Side Door at Occupant Foot (Pt. D)	385
(Door Inner Surface)	
Right Side Door at Occupant Shoulder (Pt. A)	261
Right Side Door at Occupant Mid Torso (Pt. B)	321
Right Side Door at Occupant Hip (Pt. C)	288
Right Side Door at Occupant Foot (Pt. D)	294

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>1077</u>
HIP	<u>3034</u>	<u>431</u>
KNEE	<u>2639</u>	<u>531</u>

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

Comments: _____

ACCELERATIONS, VELOCITIES & DISPLACEMENTS (STRUCK VEHICLE)

FIGURE
NUMBER

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

1-12 ACCELERATIONS
13-24 1ST INTEGRATION OF ACCELERATION
25-36 2ND INTEGRATION OF ACCELERATION

DRIVER SIDE FLOOR PAN:

37-39 ACCELERATIONS
40-42 1ST INTEGRATION OF ACCELERATION
43-45 2ND INTEGRATION OF ACCELERATION

RIGHT SIDE TRUNK:

46-48 ACCELERATIONS
49-51 1ST INTEGRATION OF ACCELERATION
52-54 2ND INTEGRATION OF ACCELERATION

DRIVER SIDE DOOR AT POINT A':

55 ACCELERATION
56 1ST INTEGRATION OF ACCELERATION
57 2ND INTEGRATION OF ACCELERATION

RIGHT SIDE 'B' PILLAR AT THE BELTLINE:

58 DISPLACEMENT
59 1ST DIFFERENTIATION OF DISPLACEMENT

VEHICLE INSTRUMENTATION (STRUCK VEHICLE)

RIGHT FRONT DUMMY:

60 HEAD ACCELERATION
61 UPPER SPINE ACCELERATION
62 LOWER SPINE ACCELERATION
63 PELVIC ACCELERATION
64-65 RIB ACCELERATION
66 RIB DISPLACEMENT
67 CONTACTS

ACCELERATIONS, VELOCITIES & DISPLACEMENTS (STRIKING VEHICLE)

FIGURE
NUMBER

BARRIER FRONT:

68-74 ACCELERATIONS
75-81 1ST INTEGRATION OF ACCELERATION
82-88 2ND INTEGRATION OF ACCELERATION

BARRIER MID:

89-95 ACCELERATIONS
96-102 1ST INTEGRATION OF ACCELERATION
103-109 2ND INTEGRATION OF ACCELERATION

FILM ANALYSIS

110 STRUCK VEHICLE VELOCITY
111 STRIKING VEHICLE VELOCITY
112 STRUCK VEHICLE ANGLE RELATIVE TO GROUND
113 STRIKING VEHICLE ANGLE RELATIVE TO GROUND
114 NHTSA BARRIER ANGLE RELATIVE TO STRUCK VEHICLE ANGLE
115 NHTSA BARRIER RELATIVE TO STRUCK VEHICLE VELOCITY
116 NHTSA BARRIER RELATIVE TO STRUCK VEHICLE DISPLACEMENT

PHOTOGRAPH INDEX

FIGURE
NUMBER

PRE-TEST PHOTOGRAPHS:

117-119 OVERALL OF TEST CONFIGURATION
120-121 CLOSEUP OF IMPACT CONFIGURATION
122-123 OVERALL OF STRUCK VEHICLE - PASSENGER SIDE
124-126 DUMMY AND INTERIOR - STRUCK VEHICLE
127-128 RIGHT SIDE DOOR ACCELEROMETERS AT POINTS A, B, C, D - STRUCK VEHICLE
129 OVERALL OF IMPACT AREA UNDERBODY - STRUCK VEHICLE

(STRUCK VEHICLE)

130-131 OVERALL OF HEXCEL FACE - STRIKING VEHICLE

132-133 OVERALL OF STRUCK AND STRIKING VEHICLE
134-136 CLOSEUP OF STRUCK AND STRIKING VEHICLE AT IMPACT AREA
137-138 OVERALL OF STRUCK VEHICLE - PASSENGER SIDE
139 DUMMY AND INTERIOR - STRUCK VEHICLE
140-143 INTERIOR WITHOUT DUMMY OR SEAT - STRUCK VEHICLE
144-145 CLOSEUP OF HEXCEL FACE - STRIKING VEHICLE
146 OVERALL UNDERBODY - STRUCK VEHICLE

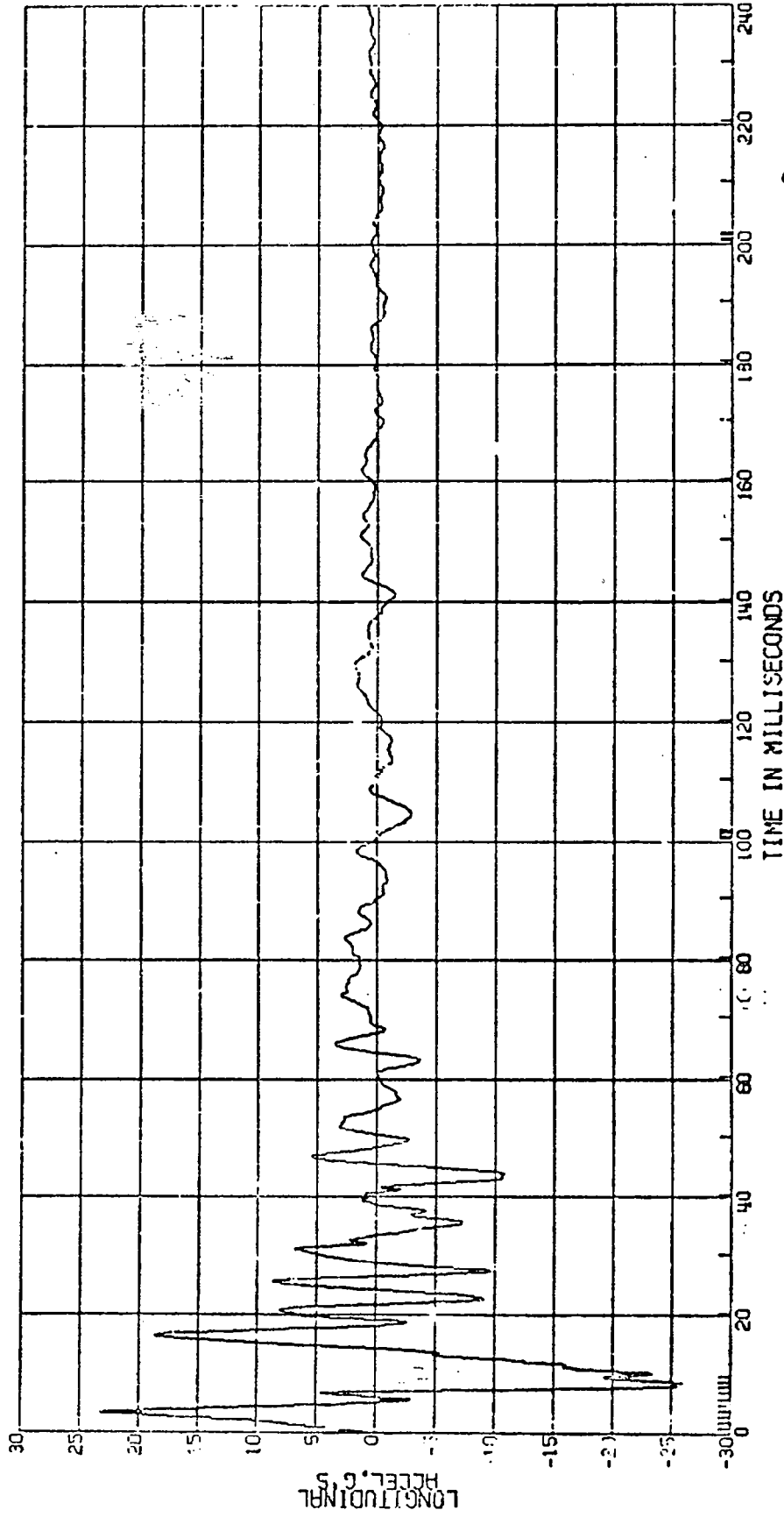
3803-C90

FIGREF-OPC CC452 3JC77 (STRUCK)

A-D DATA SAE CLF55 60

AT FRT DOOR (A) ACCEL.

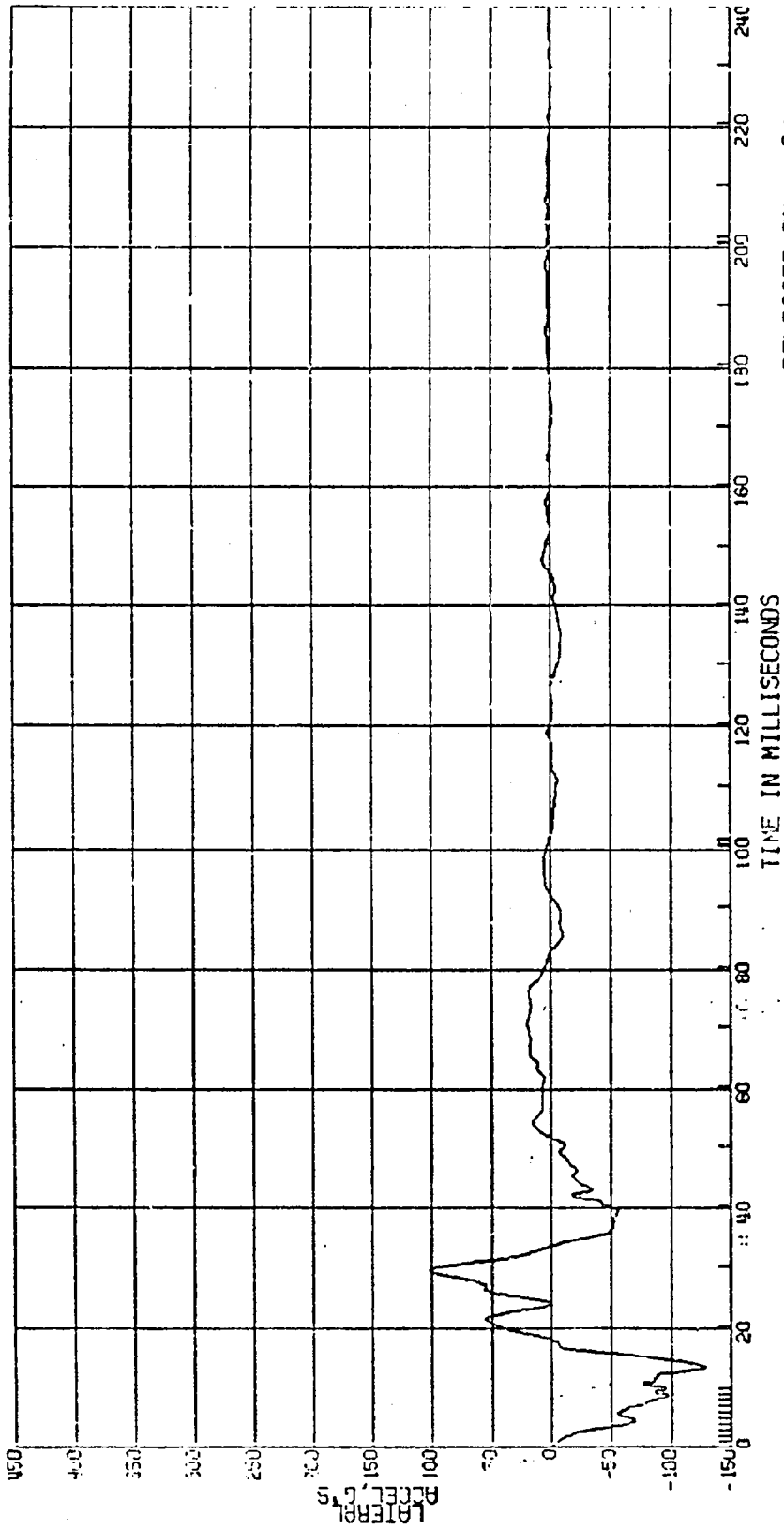
TEST DATE: 04-11-85



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11 PROCESSED 12 AP 85 13148

CUMMER RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.4 KM/H FIGURE 2
 3865-C93
 FISHER-CPC CC452 3JC77 (STRUCK)
 RT-FRT DOOR (A) ACCEL.
 TEST DATE: 04-11-85
 A- DATA SAE CLASS 60



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 IN PROCESSED 12 APR 85 13:51

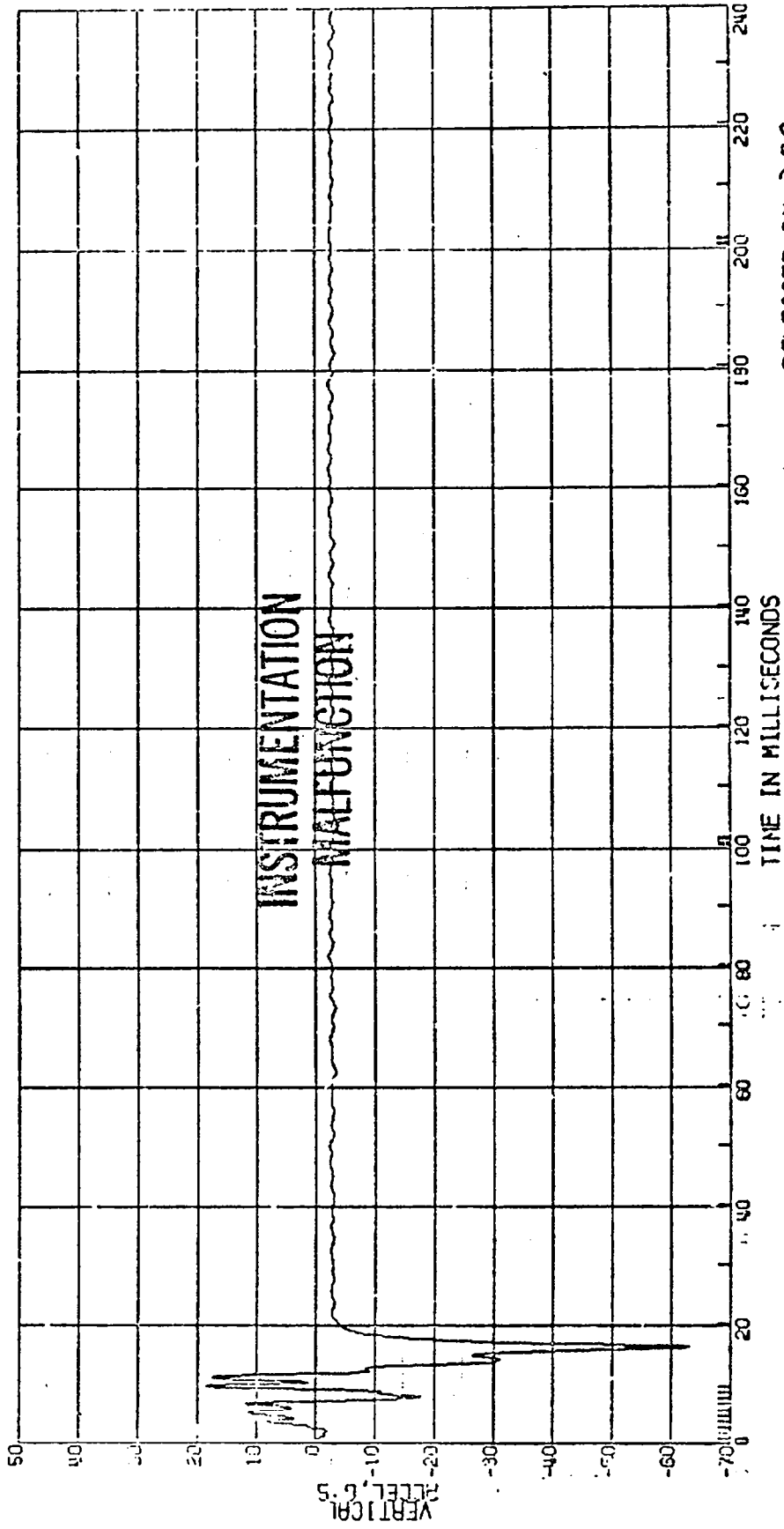
366-090

FI AIR-PC C052 3JC77 (STRUCK)

A-3 DATA SAE CLASS 5C

RT FRT DOOR (R) ACCEL.

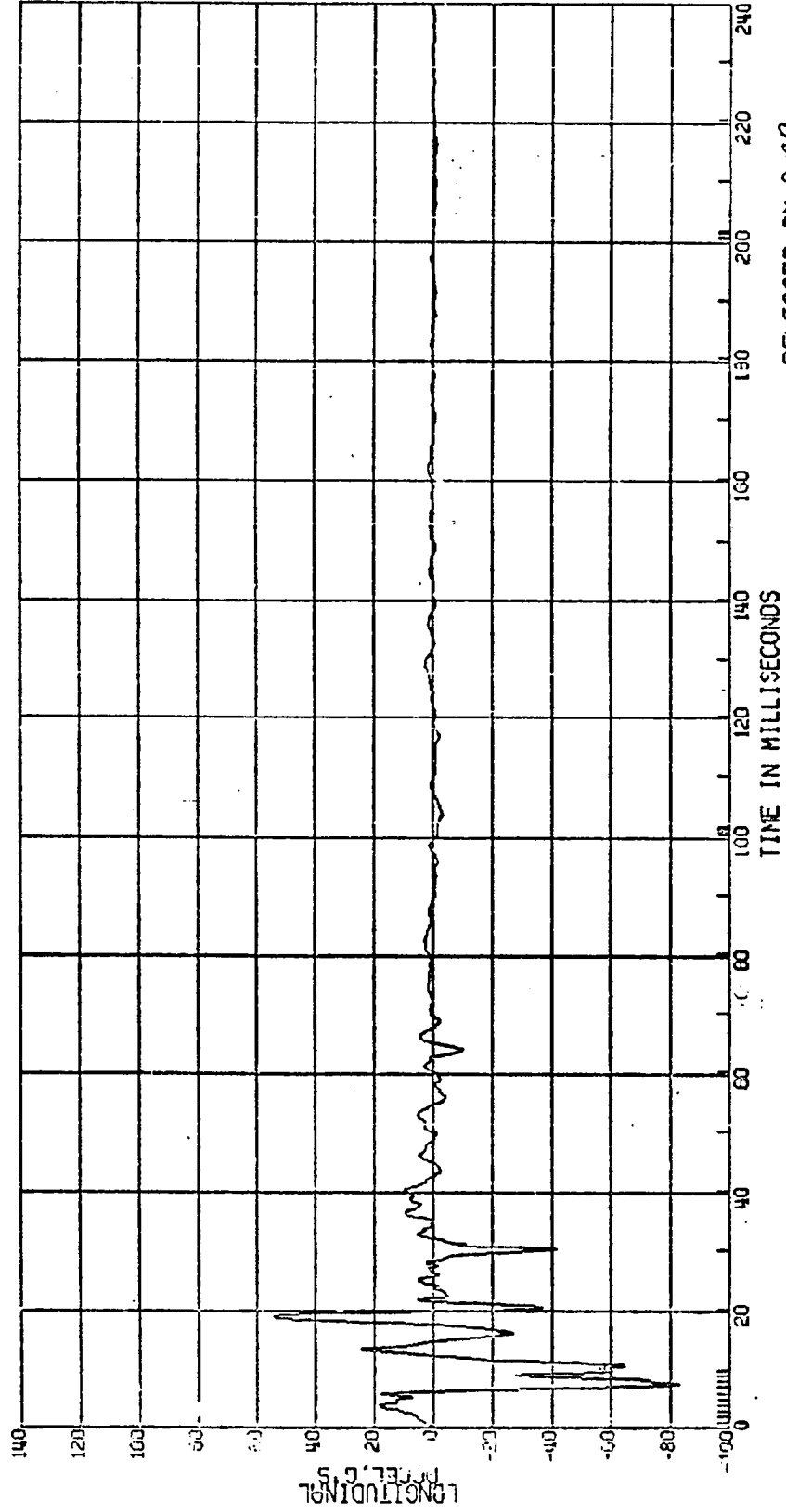
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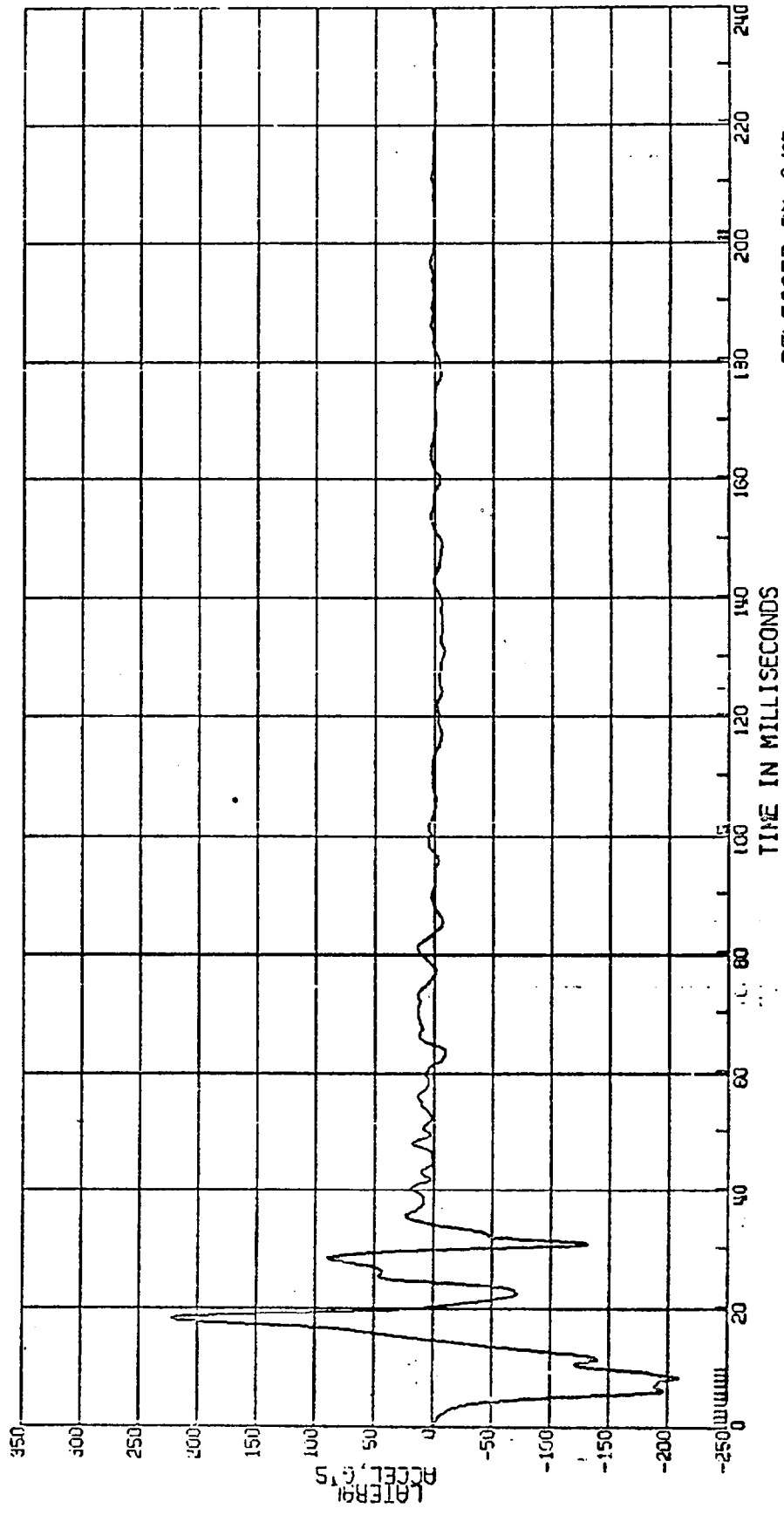
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CC102A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE @ 41.4 KM/H FIGURE 4
3075-C90
F1 JHEP-CPC CC452 3JC77 (STRUCK)
A-D DATA SAE CLASS 60 RT-FRT DOOR (B) ACCEL. TEST DATE: 04-11-85



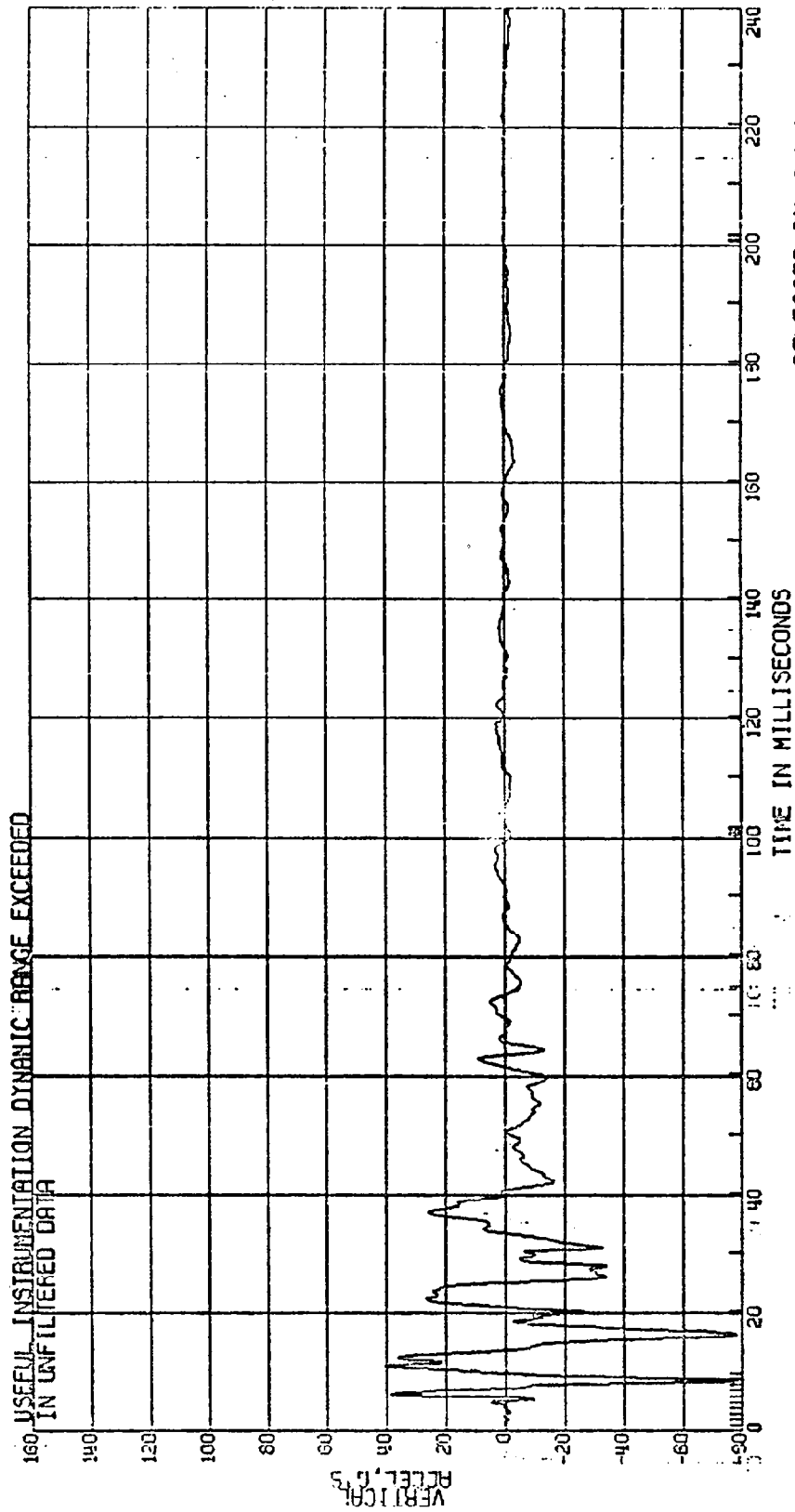
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20 PROCESSED 12 APR 85 14:03

CG192A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE @ 41.4KM/H FIGURE 5
3365-C90 RT FAT DOOR (B) ACCEL.
FURNER-CPC CC452 3JC77 (STRUCK)
A-D DATA SAE CLASS 60 TEST DATE: 04-11-85



RELEASED BY: *gk73*
23 PROCESSED 12 AP 85 14:06

CS14 P RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 1 41.4KM/H FIGURE 6
 385-C90 RT FRT DOOR (B) ACCEL. TEST DATE: 04-11-65
 FINGER-CPC C0452 3JC77 (STRUCK)
 A-0 DFTR SAE CLASS 60



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 26 PROCESSED 12 AP 65 14:07

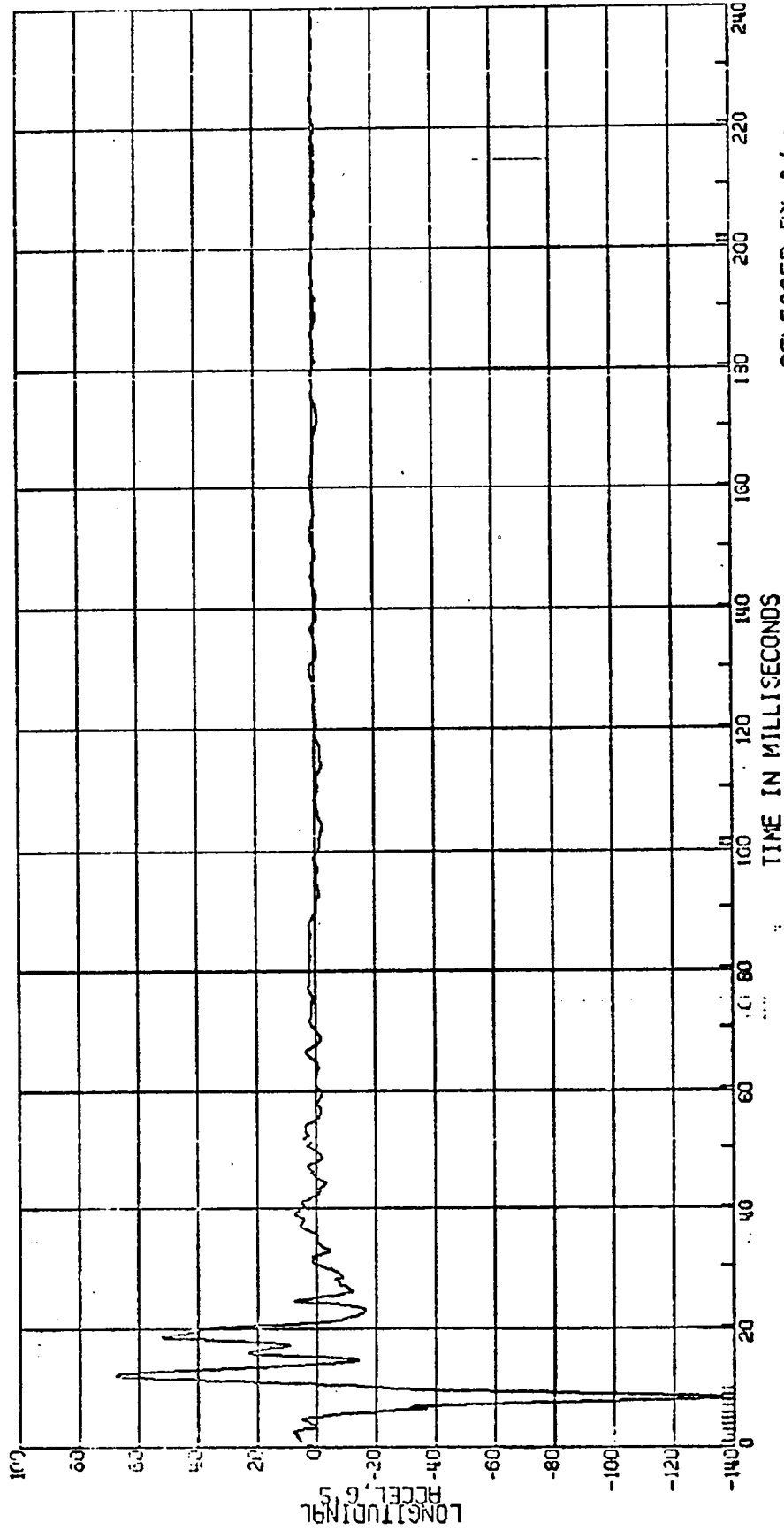
MOVING BARRIER TO PARKED VEHICLE 41.4 KM/H FIGURE 7

TEST DATE: 04-11-85

RT: FRT DOOR (C) ACCEL.

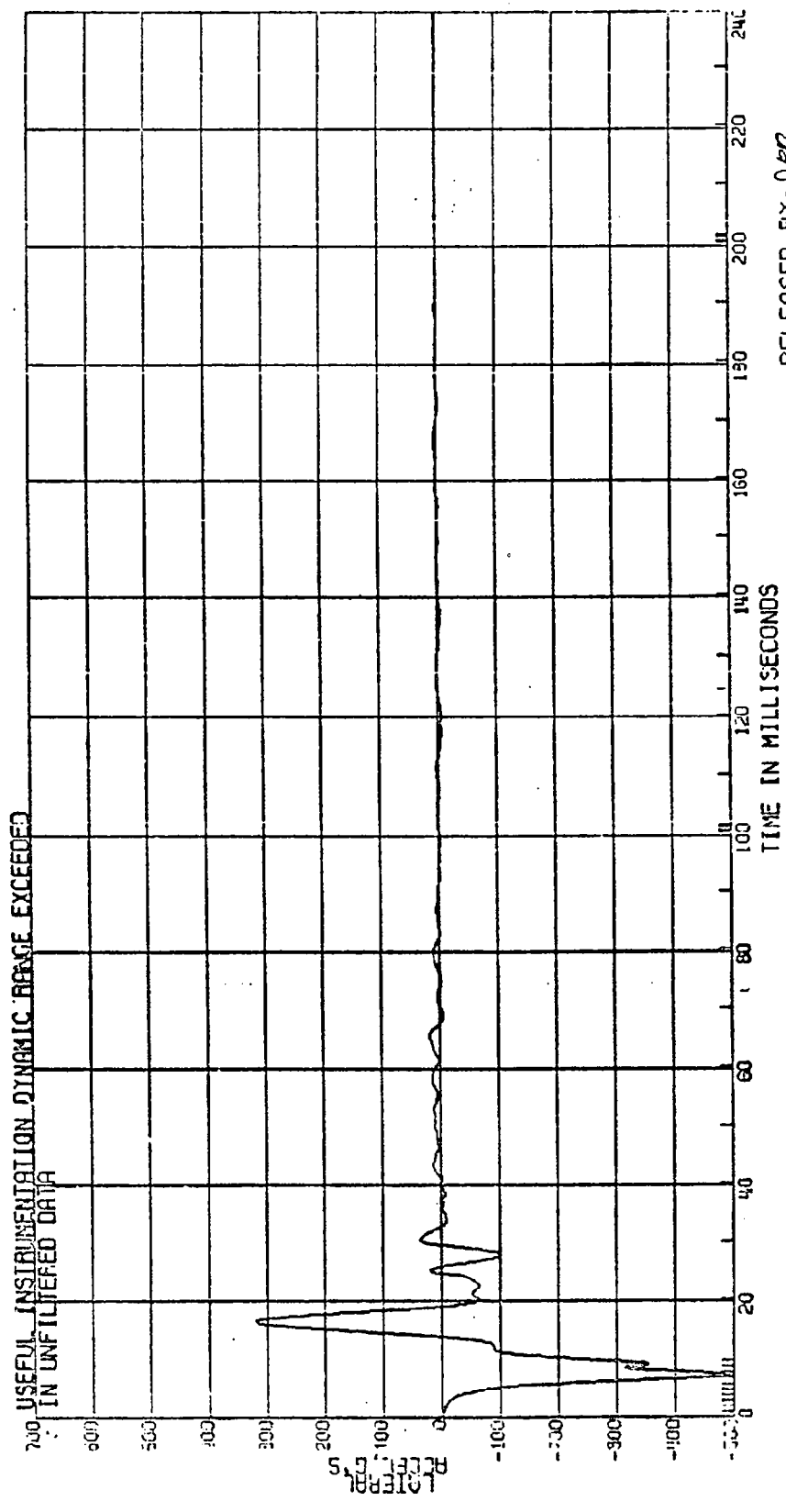
3-1980

SAE DATA SAE CLASS 60



RELEASED BY: *SAB*
29 PROCESSED 12 APR 85 14:01

CG152A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE @ 41.4 KM/H FIGURE 8
 3865-C90 RT-FRT DOOR (C) ACCEL. TEST DATE: 04-11-85
 FISHER-OPC CC452 3JC77 (STRUCK) A-D DATA SAE CLASS 60

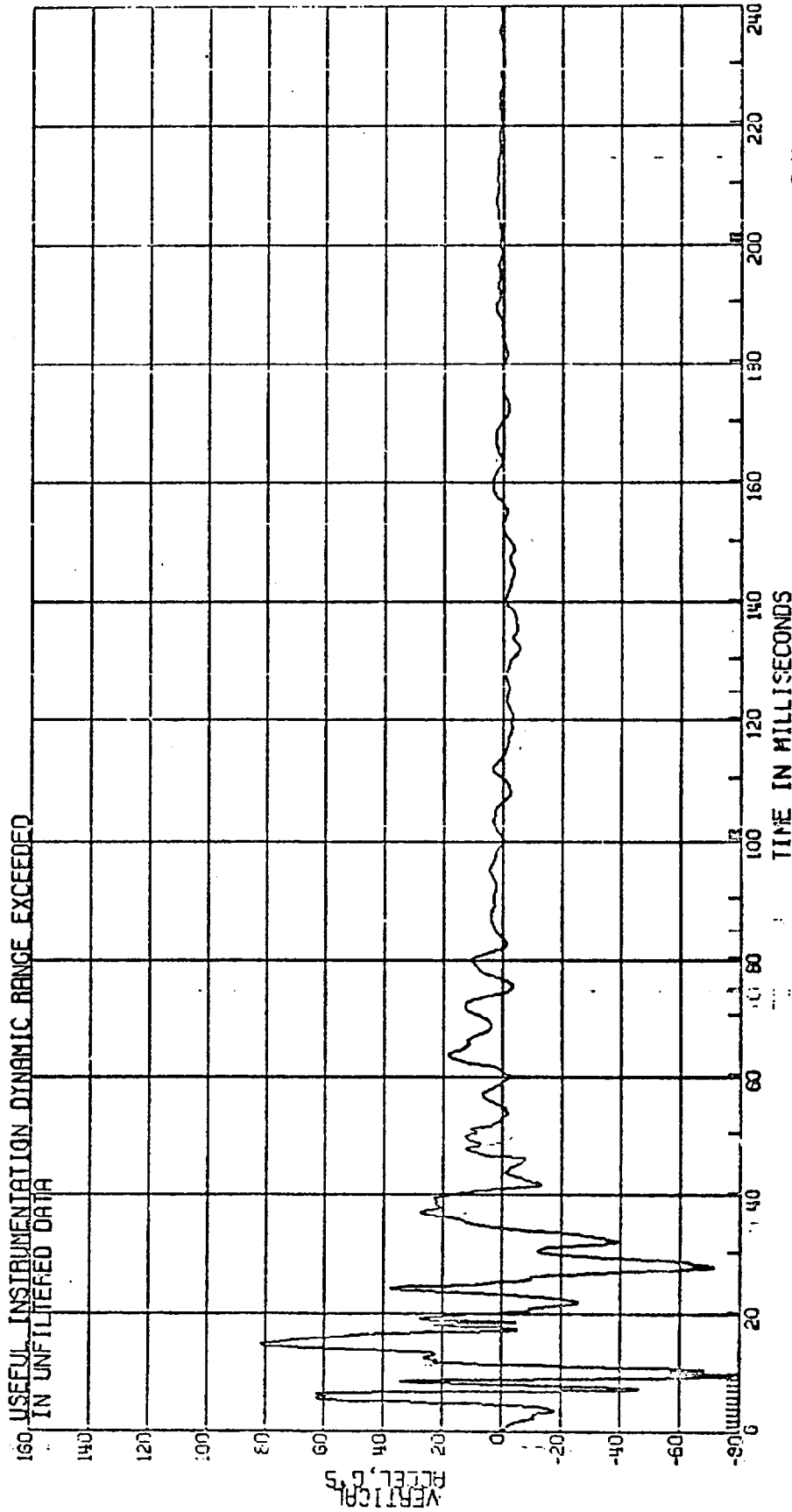


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 32 PROCESSED 12 APR 85 1411

CG132F RIGHT SIDE IMPACT
3043-C90
FINNRP-SPC CC452 3JC77 (STRUCK)
A-G DATA SAE CLASS 60

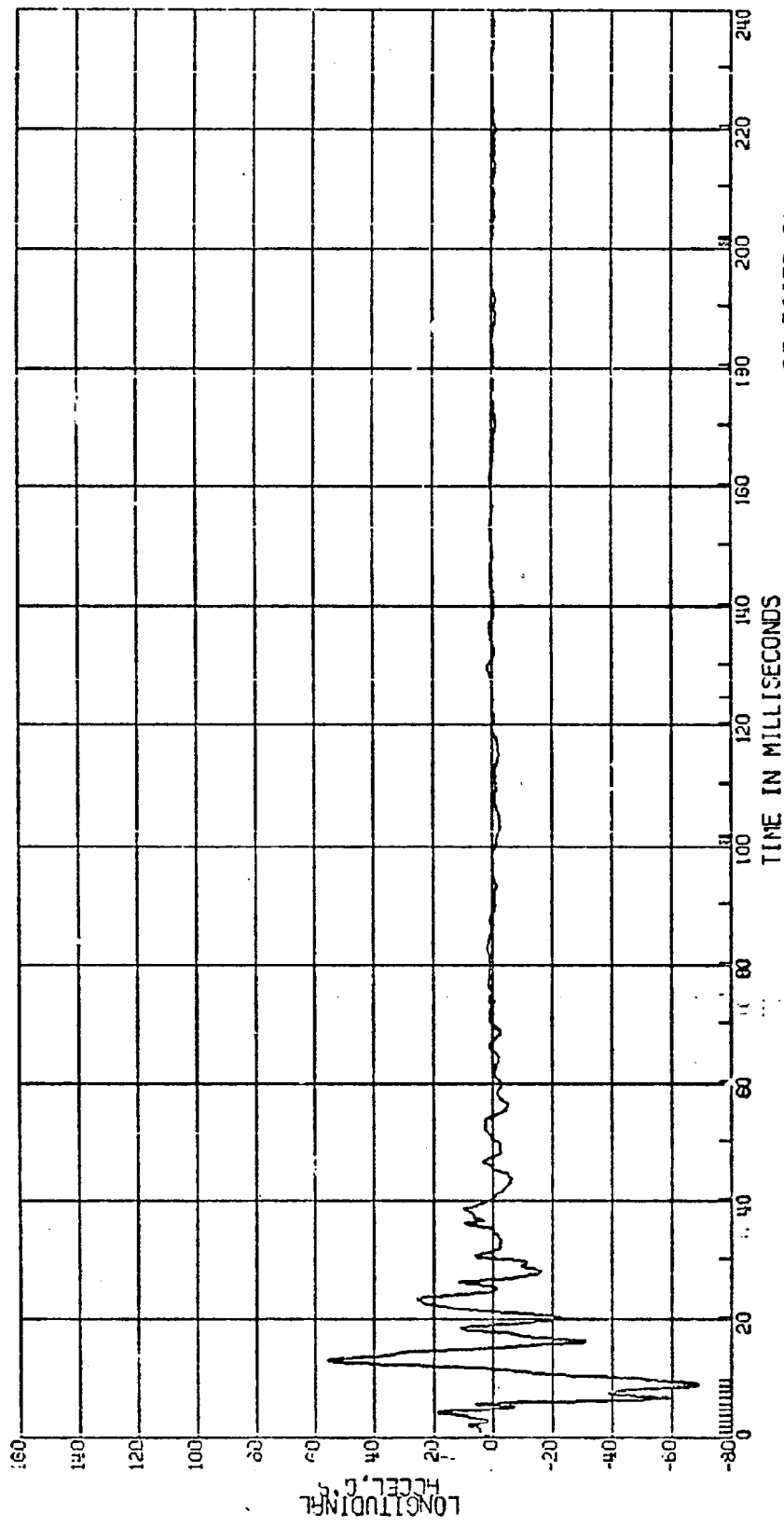
MOVING BARRIER TO PARKED VEHICLE @ 41.4KM/H FIGURE 9
AT FRT DOOR (C) ACCEL.

TEST DATE: 03-11-85



RELEASED BY: 9/73
35 PROCESSED 12 AP 85 14113

CG192F RIGHT SIDE IMPACT : MOVING BARRIER TO PARKED VEHICLE @ 41.4 KM/H FIGURE 10
3855-C90 : AT FRT DOOR (D) ACCEL.
FISHER-CPC CC452 3JC77 (STUCK)
A-D DATA SAE CLASS 60 TEST DATE: 04-11-85

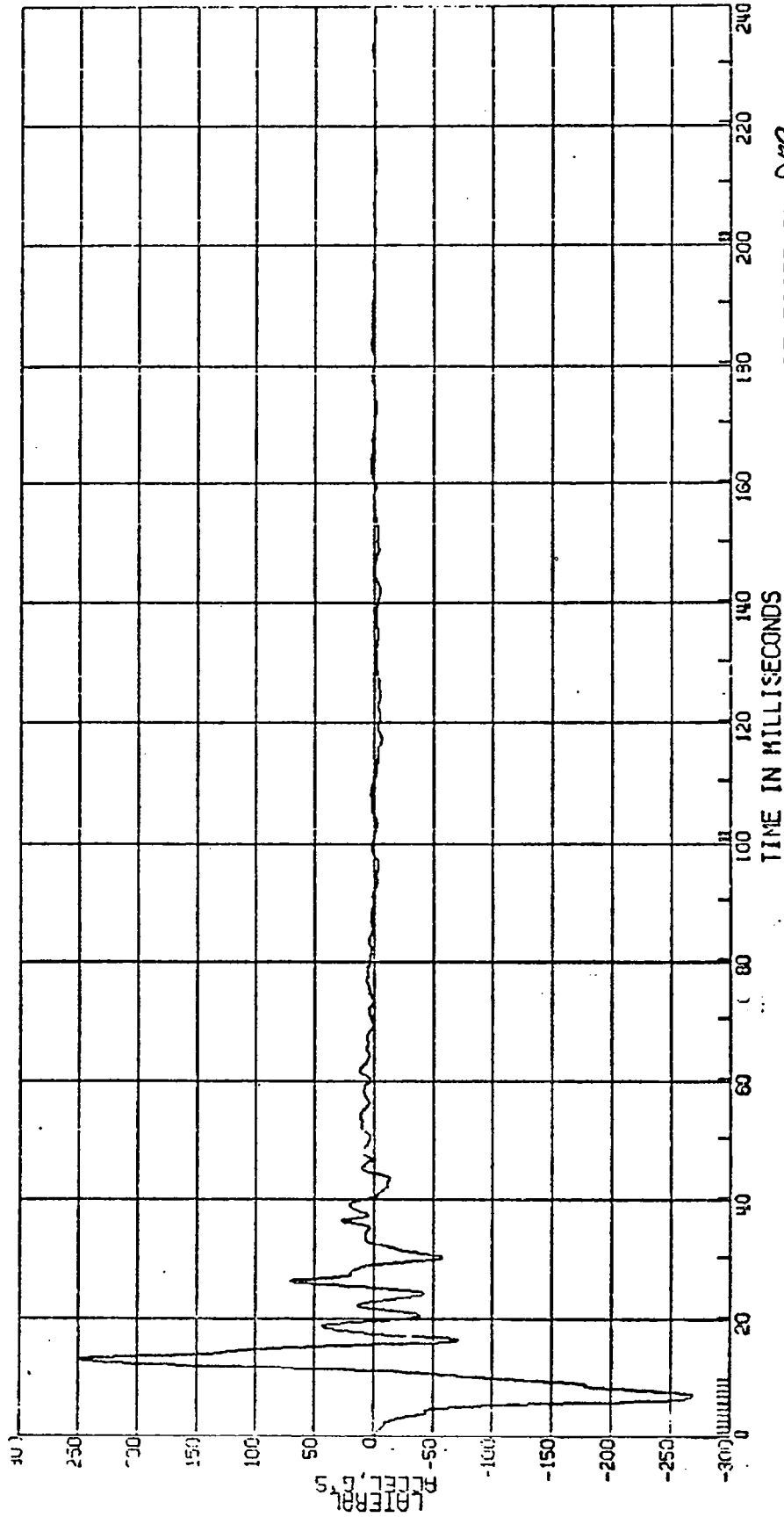


RELEASED BY: JFB
30 PROCESSED 12 AP 85 14:15

CG192F RIGHT SIDE IMPACT
9075-090
EPC 3JC77 (STUCK)
A-B WITH SAE CLASS 60

MOVING BARRIER TO PARKED VEHICLE : 41.4 KM/H FIGURE //
RT FAT DOOR (D) ACCEL.

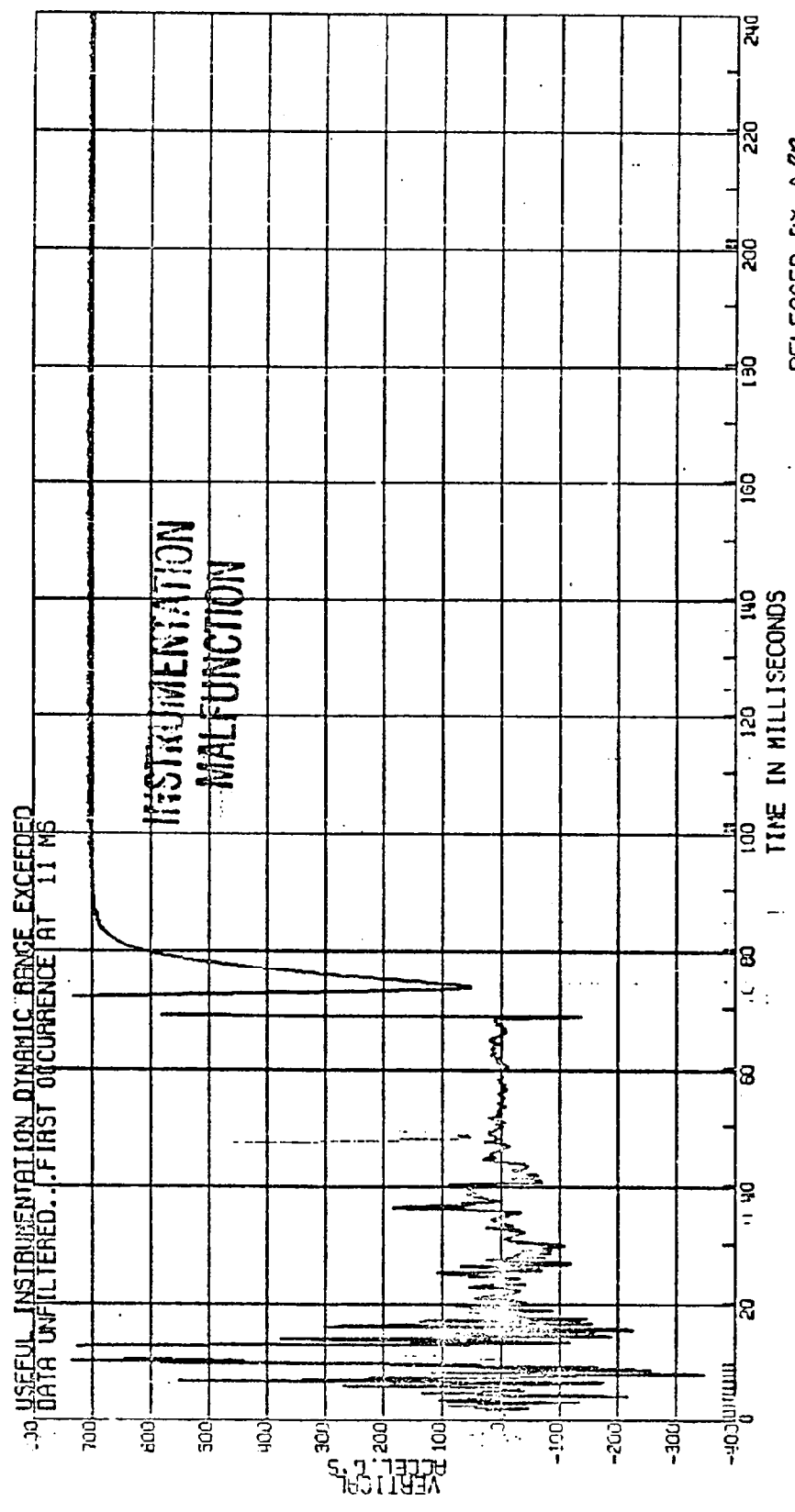
TEST DATE: 04-11-85



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41 PROCESSED 12 APR 85 14:10

CF192A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.4 KM/H FIGURE 12
 3855-C90 TEST DATE: 04-11-85
 FISHER-CPC CO152 3JC77 (STRUCK) RT FRT DOOR (D) ACCEL.
 A-0 DATA SAE CLASS 60
 (NOT USED IF NOTED BELOW)



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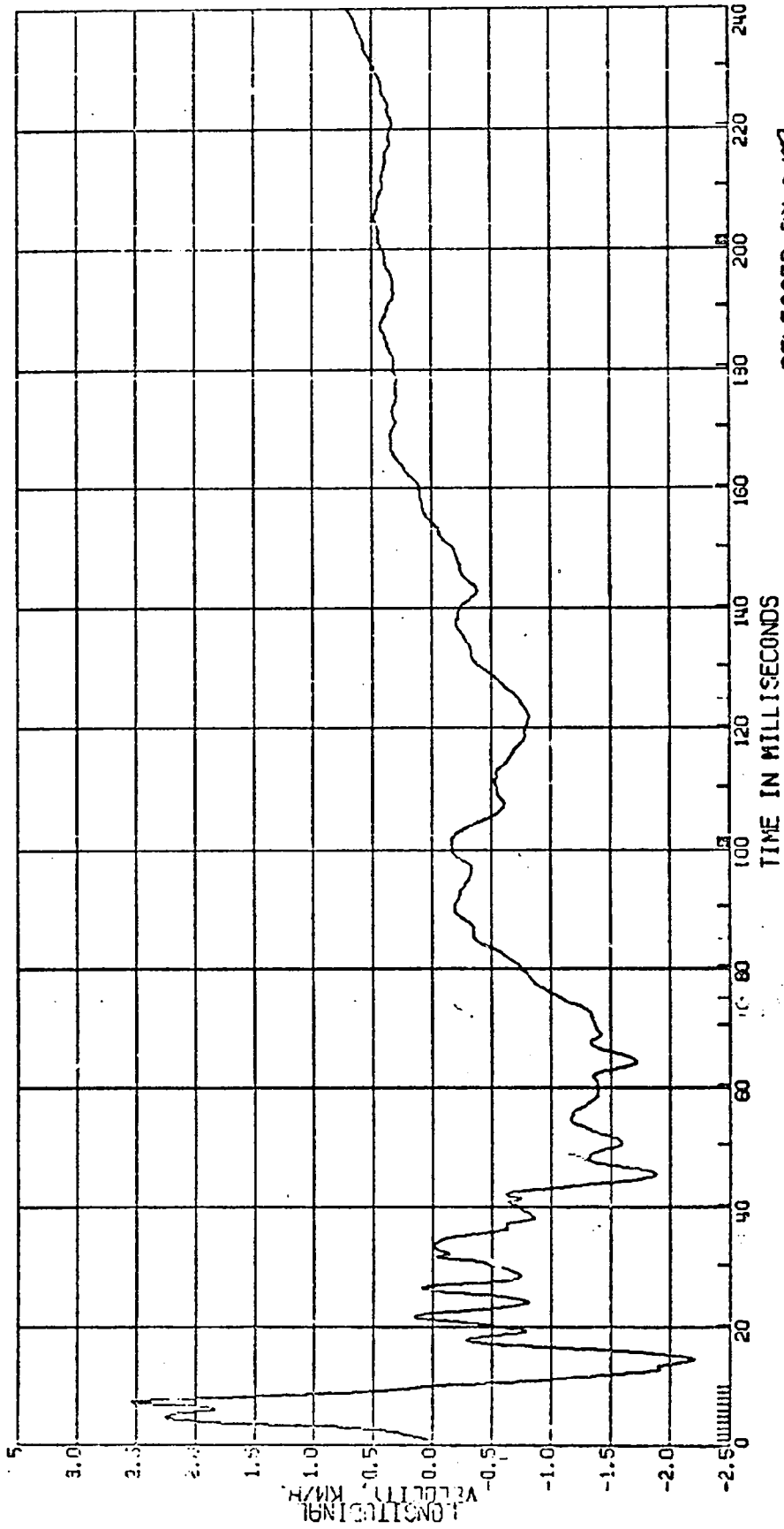
CAR LEFT SIDE IMPACT
3802-190
FV 9H-8PC CC452 3JC77 (STRUCK)
RT FRT SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE @ 41.4 KM/H FIGURE 13

COMPUTED RT FRT DOOR (A) VELOCITY

TEST DATE: 04-11-85

(1ST INTEGRAL ACCELERATION)



RELEASED BY: 9/83
12 PROCESSED 12 APR 85 13:50

CG192A RIGHT SIDE IMPACT
3855-C90

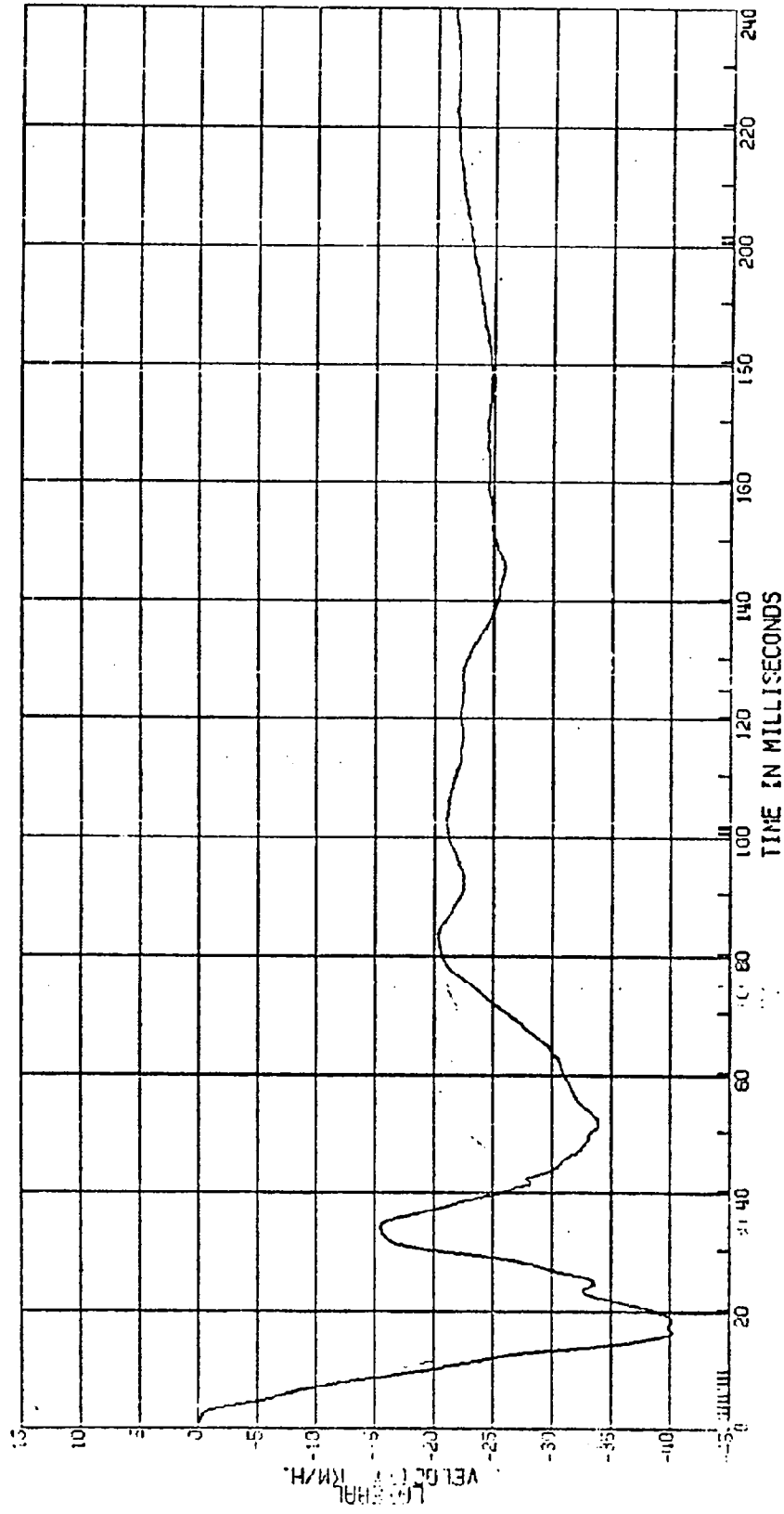
FISHER-OPC C0452 3JC77 (STRUCK)
9-5 FTR SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE : 41.4 KM/H FIGURE 14

COMPUTED RT FRT DOOR (A) VELOCITY

TEST DATE: 04-11-85

(1ST INTEGRAL ACCELERATION)



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15 PROCESSED 12 APR 85 13:54

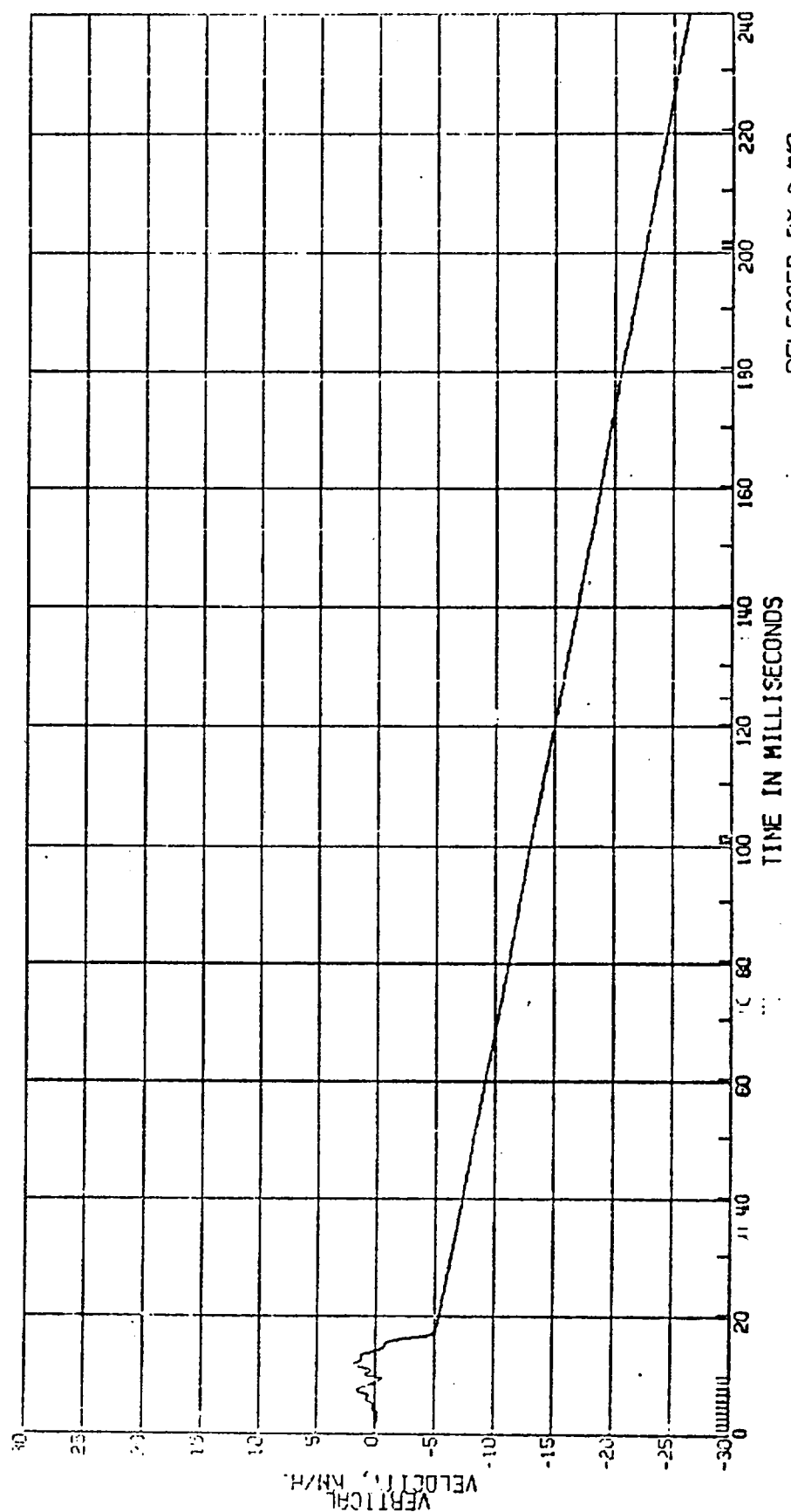
WORLD WIDE TIME MARCH
19 7-090

MOVING DARRLEN IN PARKED VEHICLE 41.4 KM/H FIGURE 75

CC-52 3JC77 (STRUCK)
R-0 DATA SAE CLASS 160

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

TEST DATE: 04-11-85

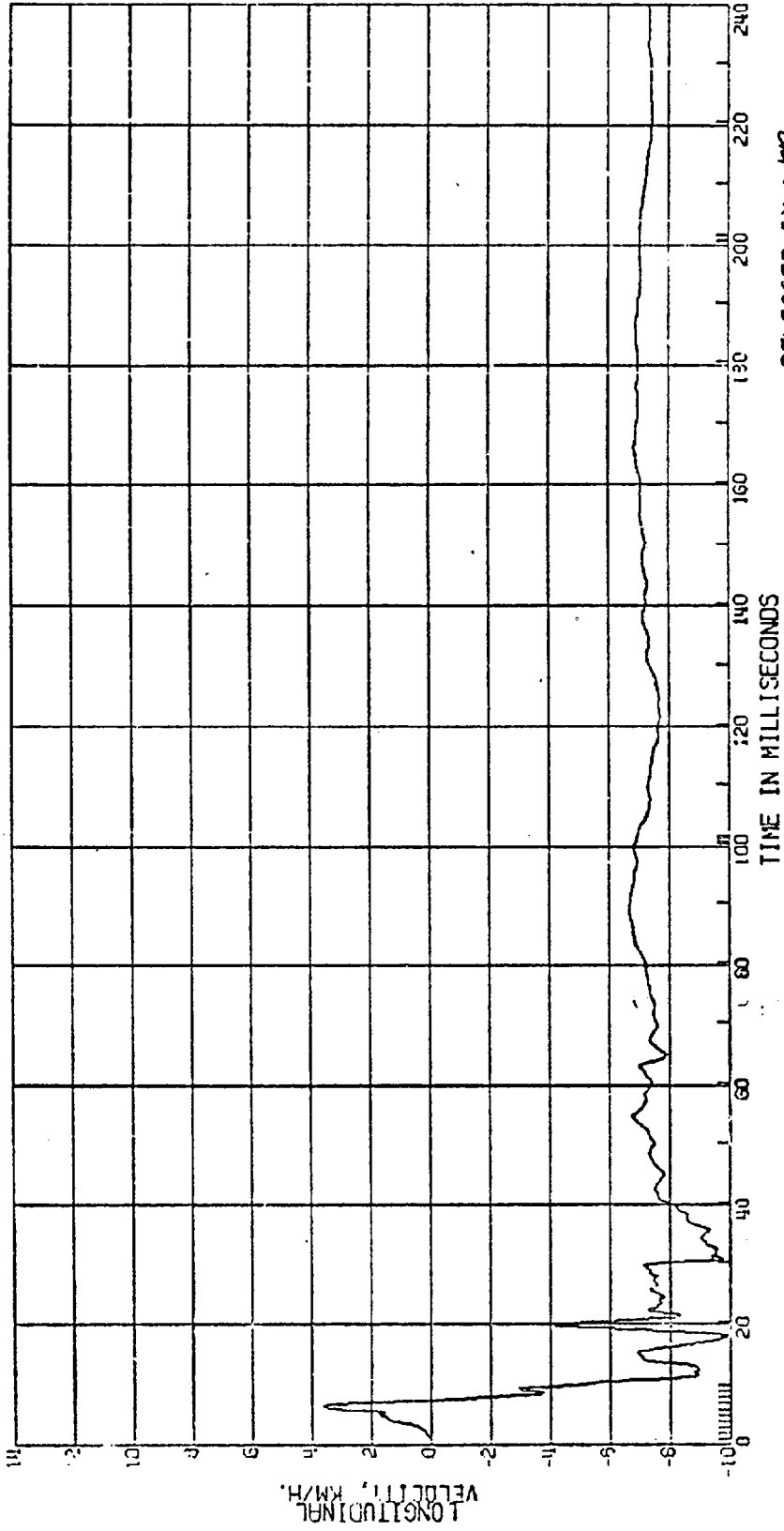


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18 PROCESSED 12 APR 85 13:56

RIGHT SIDE IMPACT
301 C90
FUSAP-CPC C0452 3JC77 (STUCK)
R-3 WTA SAE CLASS 180

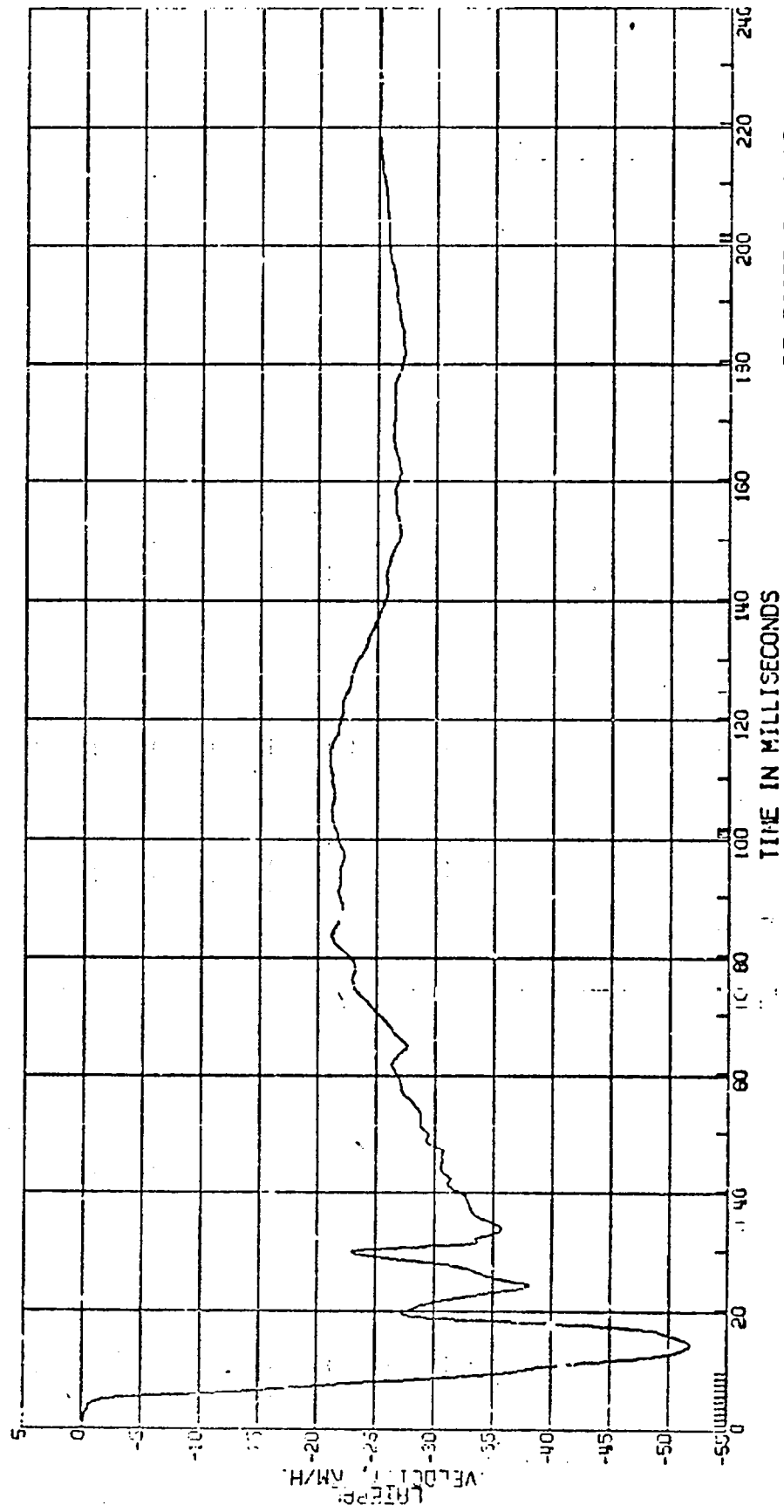
MOVING BARRIER TO PARKED VEHICLE 41.4 KM/H FIGURE 16
COMPUTED RT FRT DOOR (B) VELOCITY
(1ST INTEGRAL ACCELERATION)

TEST DATE: 04-11-85



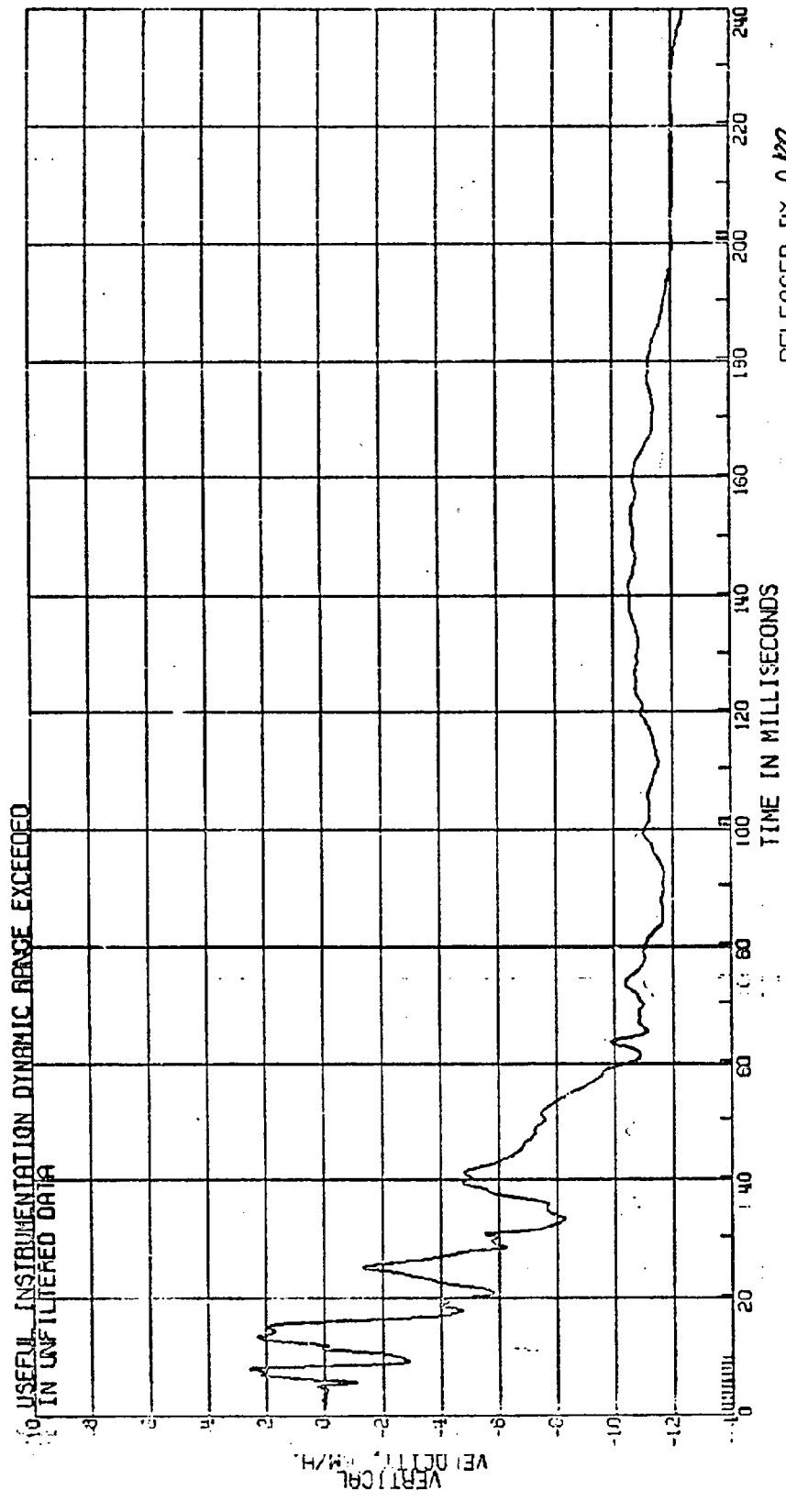
RELEASED BY: 9/873
21 PROCESSED 12 APR 85 1410H

MOVING BARRIER TO TRUCK VEHICLE : 41.4 KM/H FIGURE 11
 TEST DATE: 04-11-85
 COMPUTED RT FAT DOOR (B) VELOCITY
 (1ST INTEGRAL ACCELERATION)



RELEASED BY: JAB
 24 PROCESSED 12 APR 85 14:07

CCLJ2R RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE AT 41.4 KM/H FIGURE 18
 3665-C90
 F. SHEP-CPC CC452 3JC77 (STRUCK)
 A-D EFTA SAE CLASS 180
 COMPUTED RT FAT DOOR (B) VELOCITY
 TEST DATE: 04-11-85
 (1ST INTEGRAL ACCELERATION)



RELEASED BY: *gms*
 27 PROCESSED 12 APR 85 14:00

CS192A RIGHT SIDE IMPACT

30 5-090

F: 3P-3PC CC452 3JC77 (STRUCK)

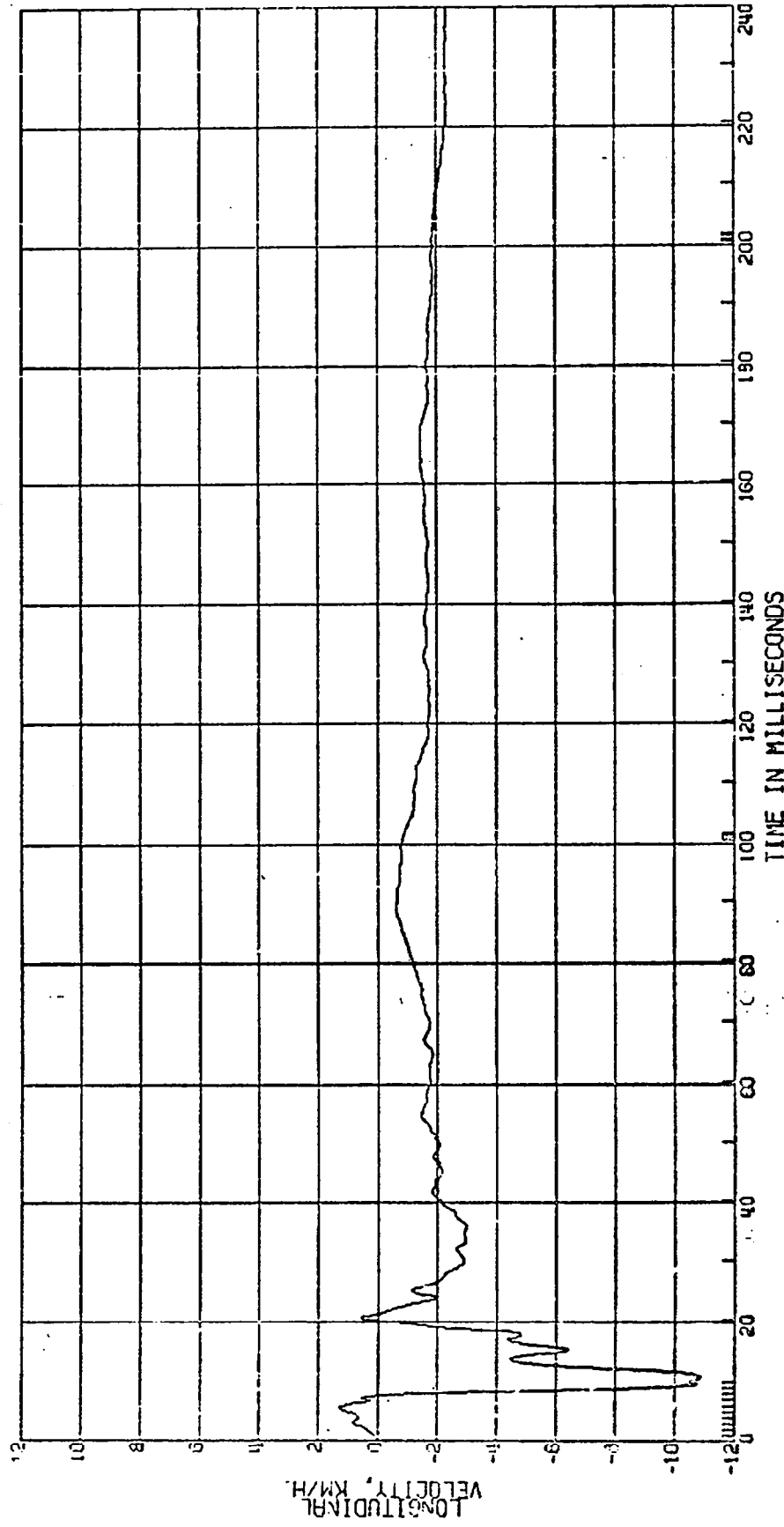
A-B DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE 41.4 KM/H FIGURE 19

COMPUTED RT FRT DOOR (C) VELOCITY

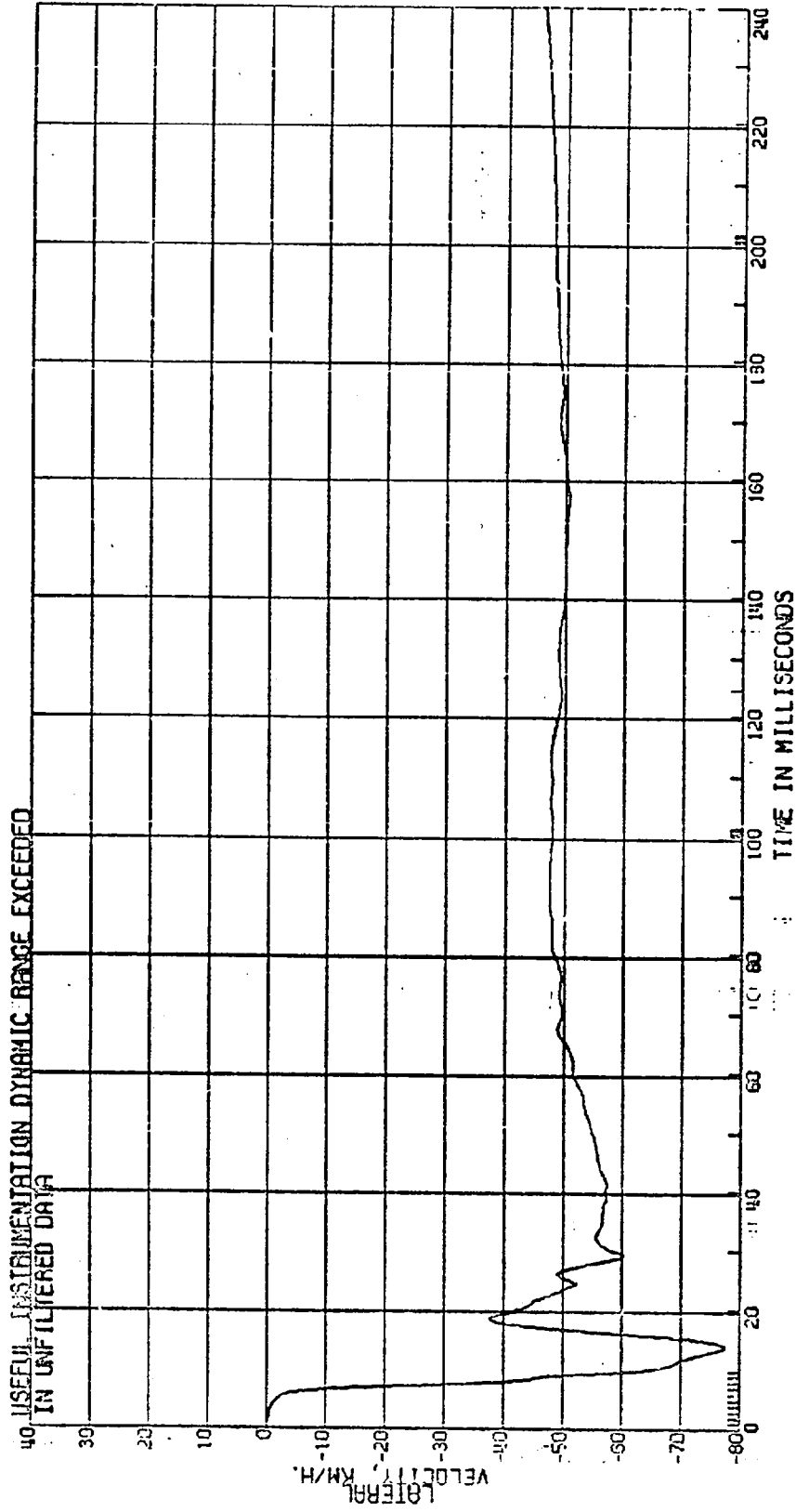
TEST DATE: 04-11-85

(1ST INTEGRAL ACCELERATION)



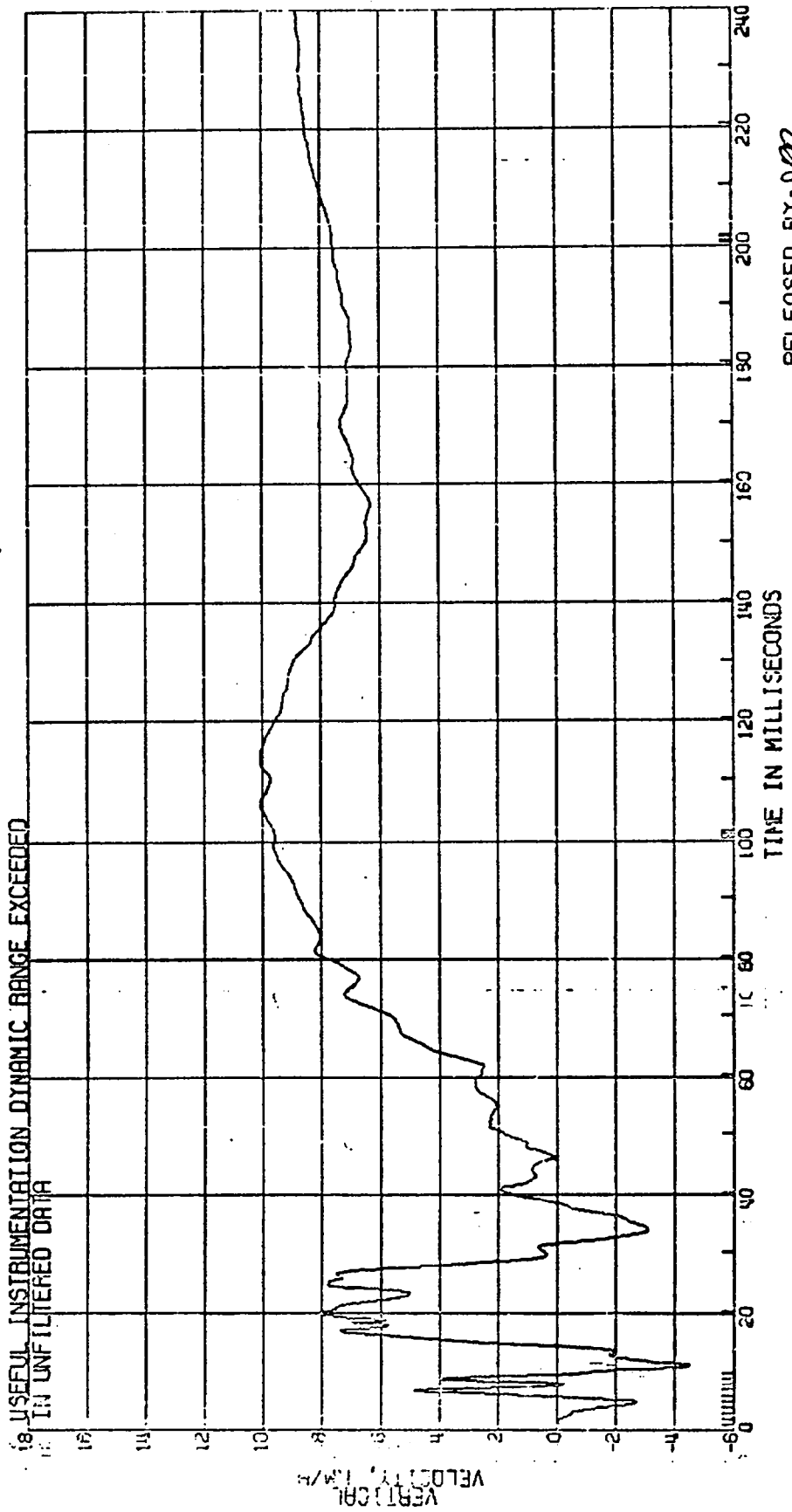
RELEASED BY: 2/2/85
30 PROCESSED 12 APR 85 14:10

CGI 2A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE : 41.4 KM/H FIGURE 20
 3465-09J
 P: SHEP-CPC C0452 3JC77 (STUCK)
 P-O DATA SAE CLASS 180
 TEST DATE: 04-11-85
 (1ST INTEGRAL ACCELERATION)



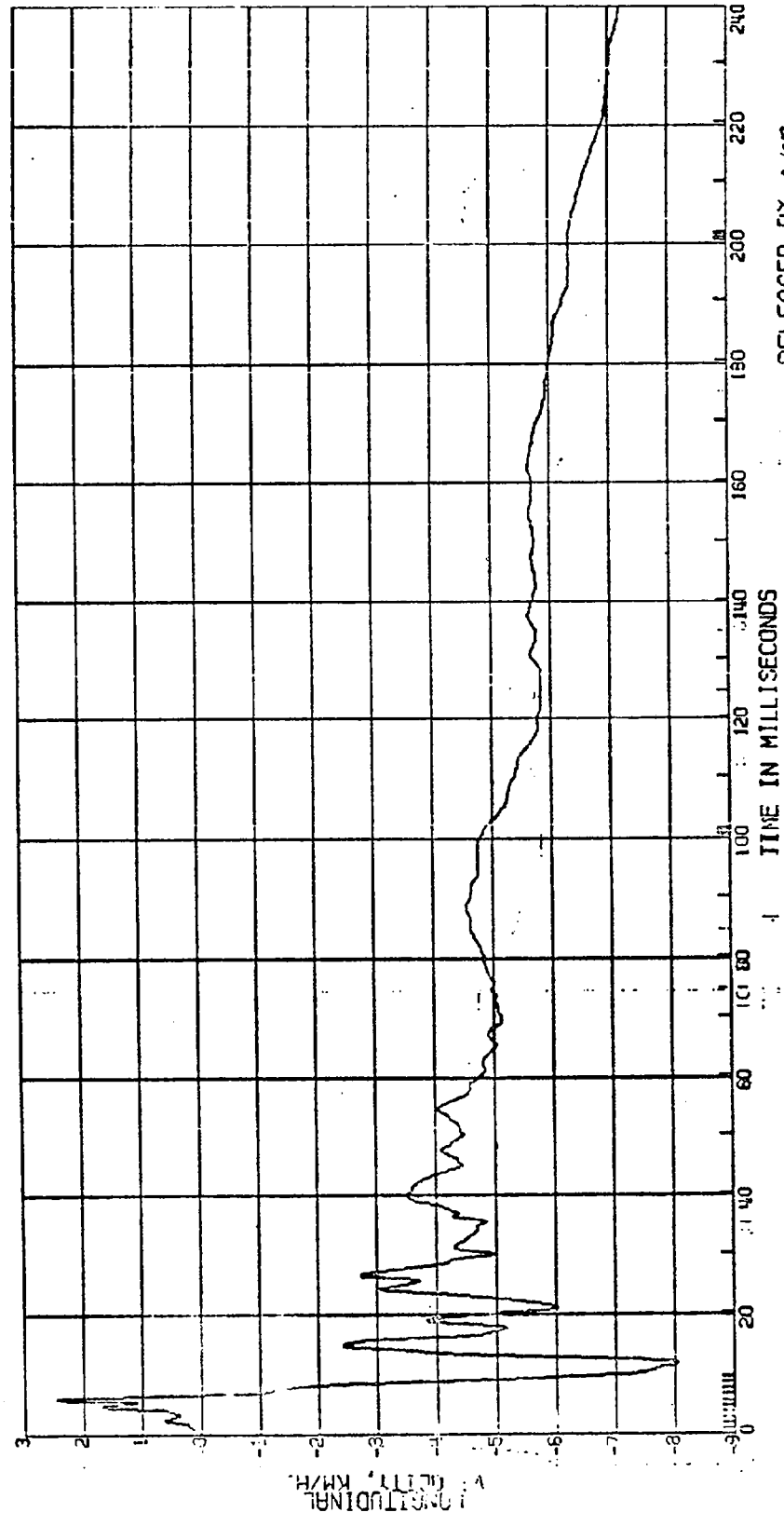
RELEASED BY: YRB
 33 PROCESSED 12 AP 85 14:12

COLLIER RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE @ 41.4 KM/H FIGURE 2/
 3265-C90
 F. SHEP-CPC CC452 3JC77 (STRUCK)
 SAE CLASS 180 TEST DATE: 04-11-85
 (1ST INTEGRAL ACCELERATION)



RELEASED BY: JEP
 36 PROCESSED 12 APR 85 14:14

CASE NO: RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.4 KM/H FIGURE 22-
 3007-199 COMPUTED RT FRT DOOR (D) VELOCITY TEST DATE: 04-11-85
 FISHER-CPC CC#52 3JC77 (STRUCK)
 A-D DATA SAE CLASS 180 (1ST INTEGRAL ACCELERATION)



RELEASED BY: JHS
 P 39 PROCESSED 12 APR 85 14:16

RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.4 KM/H FIGURE 23

3865-C90

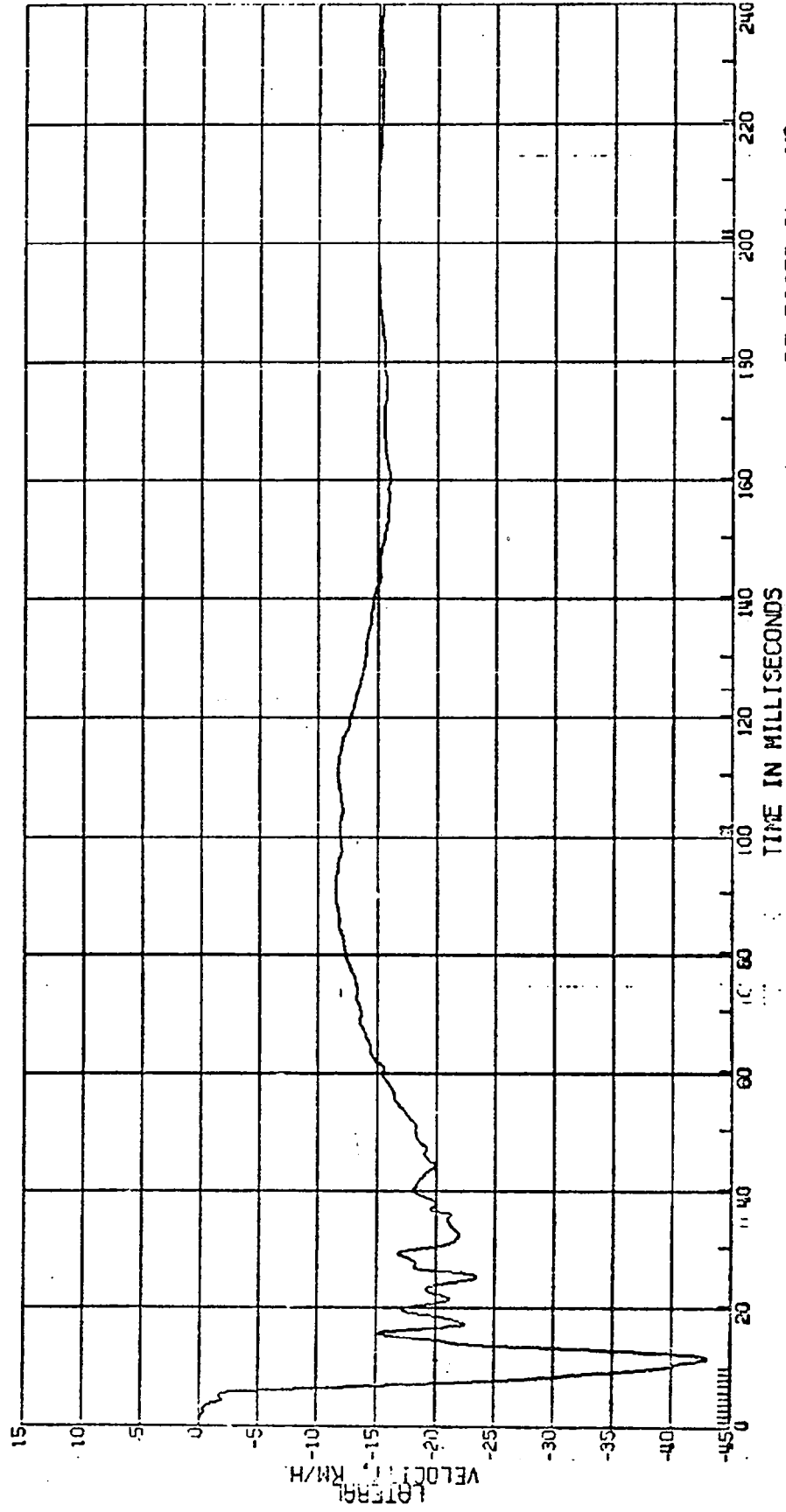
FISHER-CPC 00452 3JC77 (STUCK)

A-C DATA SAE CLF55 160

COMPUTED: RT FRT DOOR (D) VELOCITY

TEST DATE: 04-11-85

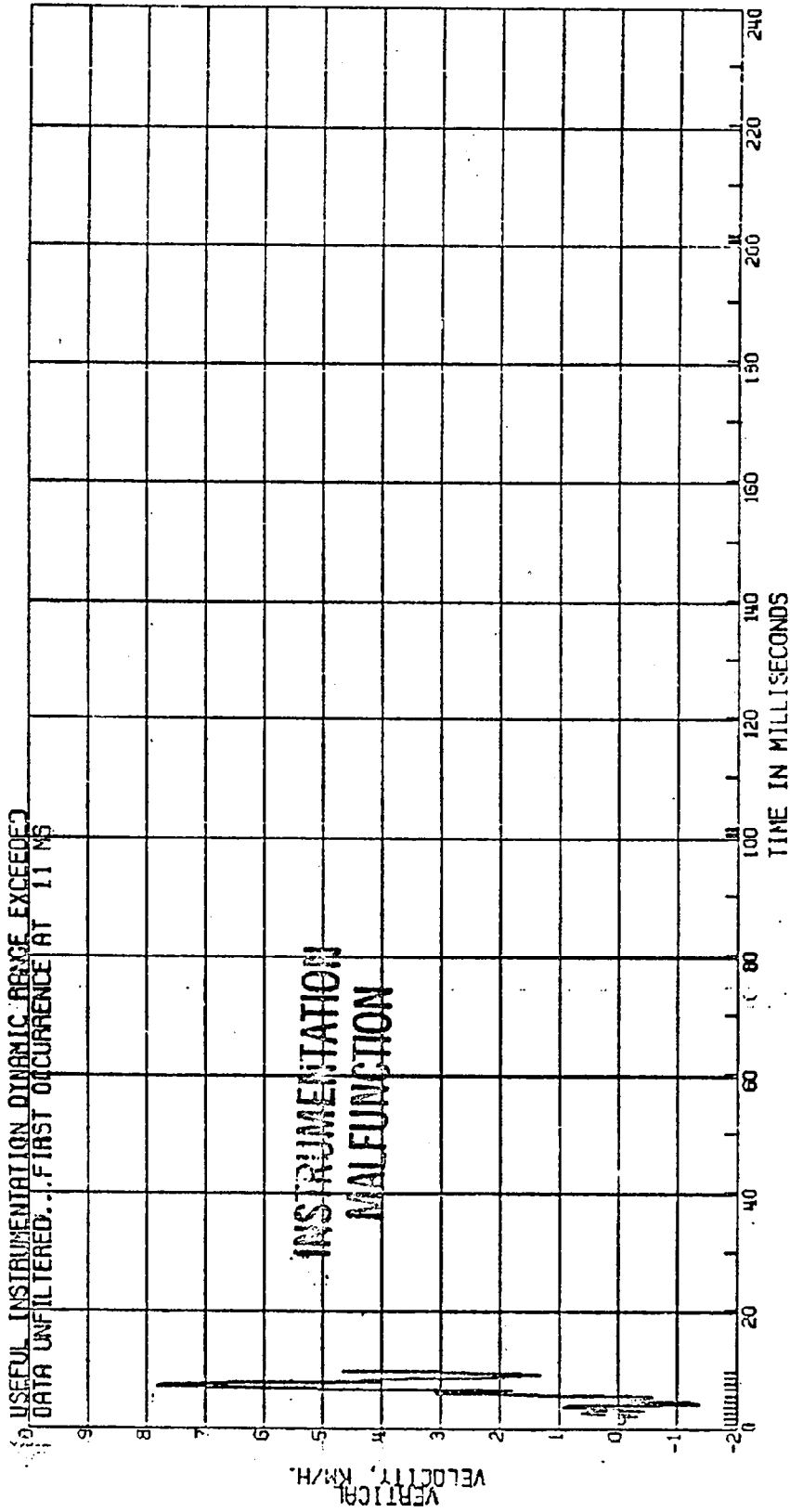
(1ST INTEGRAL ACCELERATION)



RELEASED BY: gpb

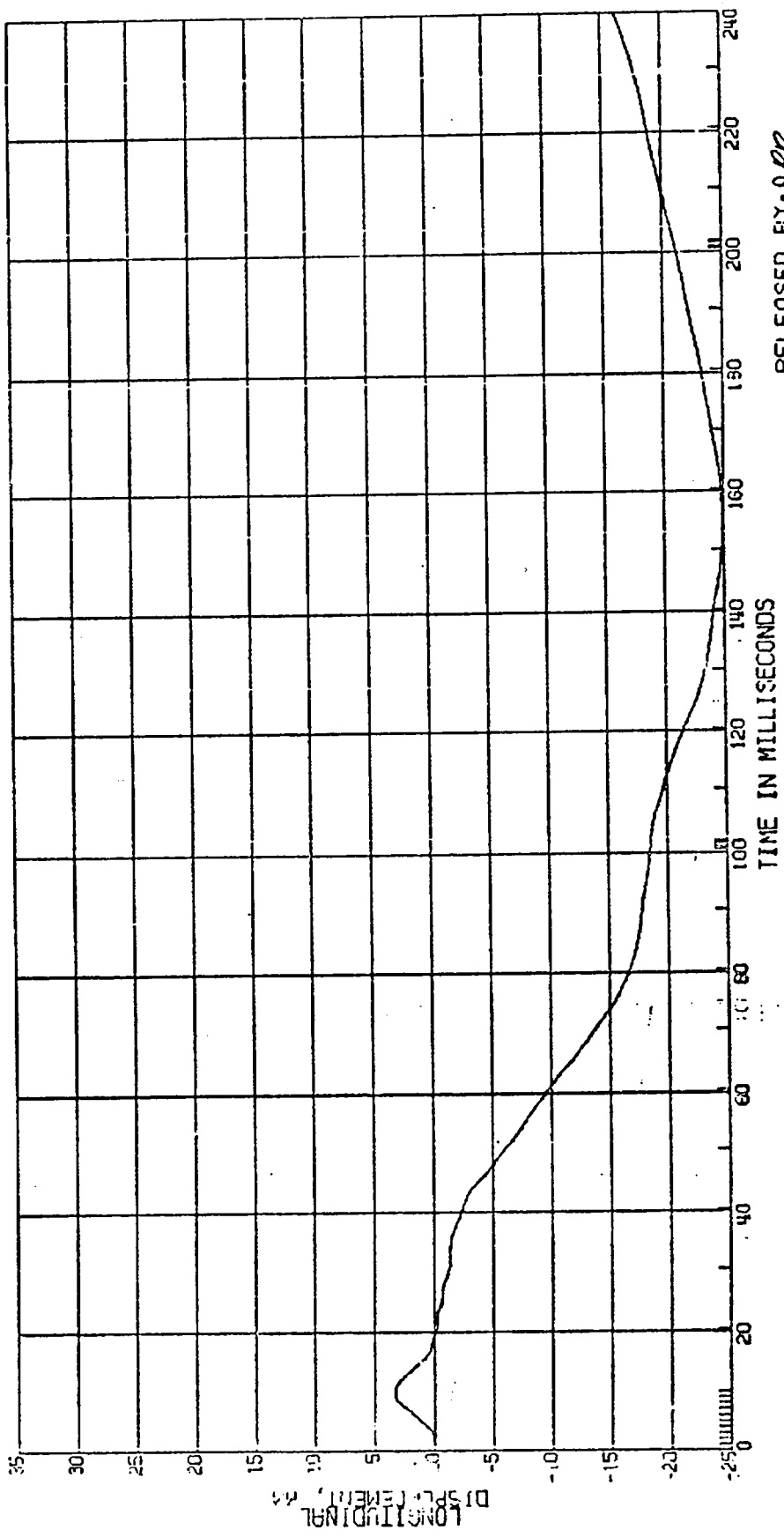
42 PROCESSED 12 APR 85 14:18

05102F RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE @ 41.4KM/H FIGURE 24
 3885-090
 FISHKIP CPC CC452 3JC77 (STUCK) COMPUTED RT FRT DOOR (D) VELOCITY TEST DATE: 04-11-85
 3-D DATA SAE CLASS 180 (1ST INTEGRAL ACCELERATION)
 (NOT USED IF NOTED BELOW)



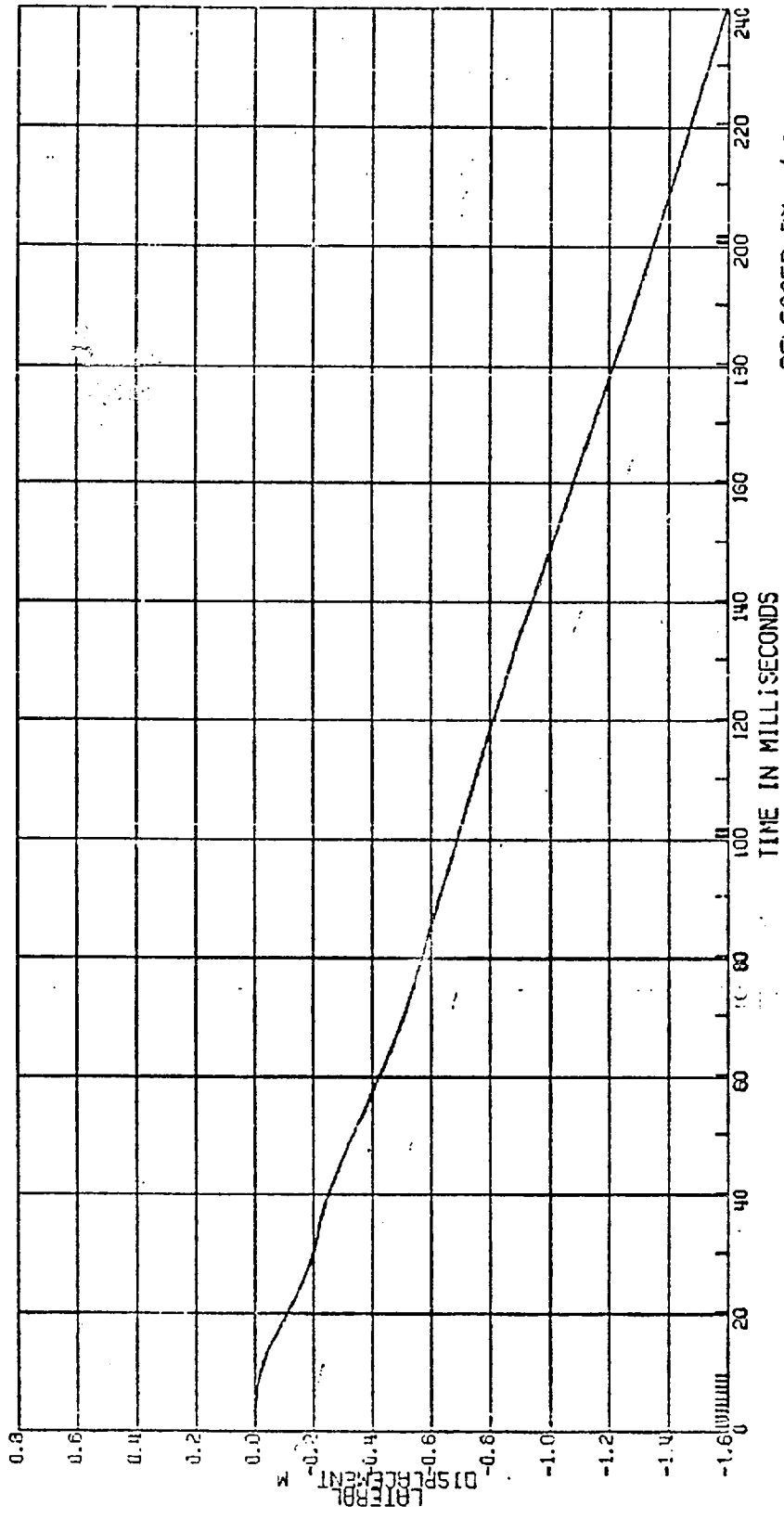
RELEASED BY: 8493
 45 PROCESSED 12 RP 05 14:20

CRASH RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.4 KM/H FIGURE 25
 3R05-C90
 F 017P-CPC 00452 3JC77 (STRUCK)
 N-0 DATA SAE CLASS 180
 COMPUTED AT FAT DOOR (A) DISPLACEMENT
 TEST DATE: 04-11-85
 (2ND INTEGRAL ACCELERATION)



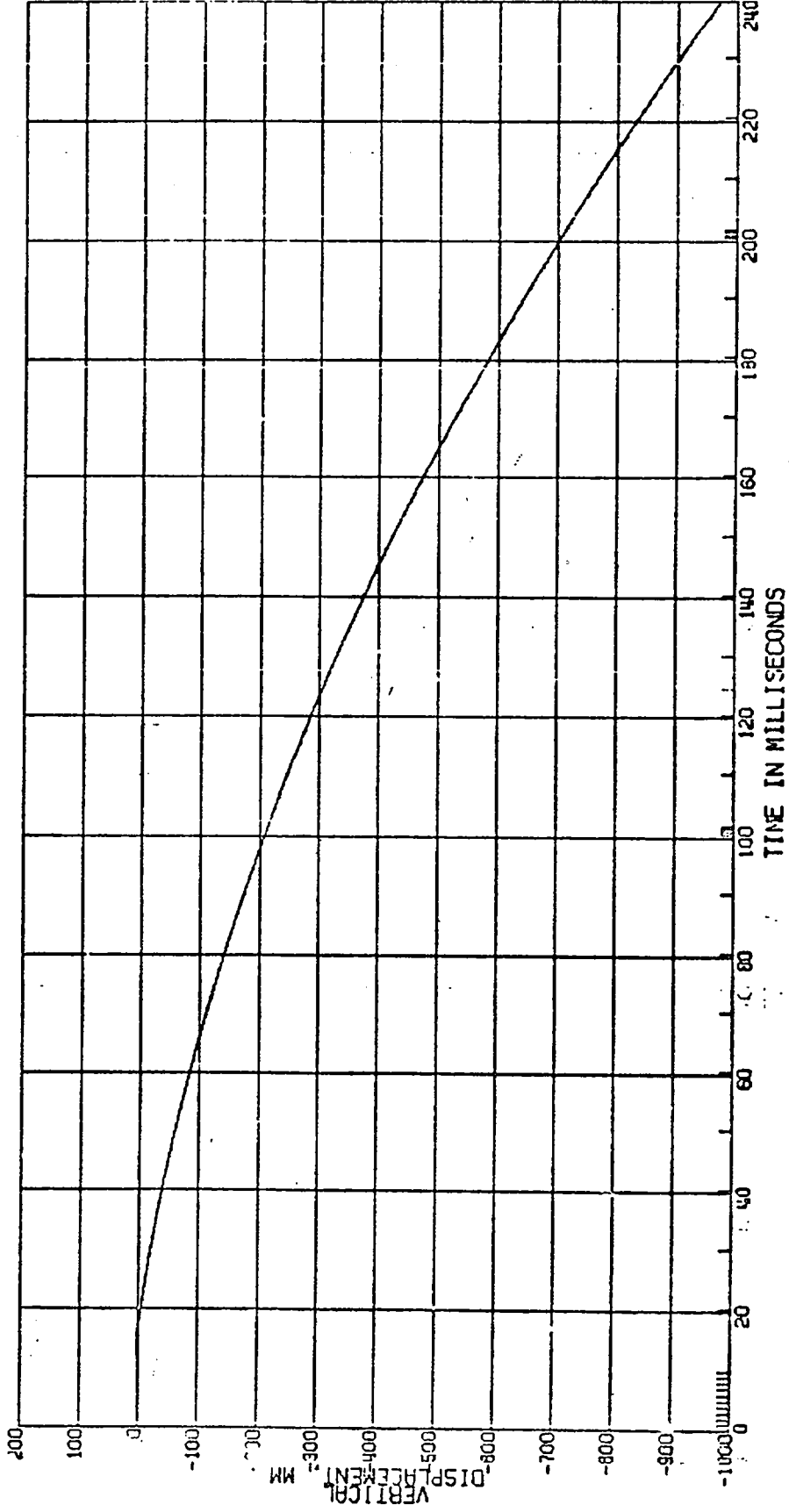
RELEASED BY: *GRS*
 13 PROCESSED 12 APR 85 13:51

C6:92A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE @ 41.4 KM/H FIGURE 26
 3865-C90
 FISHER-CPC CC452 3JC77 (STRIKED) COMPUTED AT FRT DOOR (A) DISPLACEMENT TEST DATE: 04-11-85
 A-D DATA SAE CLASS 180 (2ND INTEGRAL ACCELERATION)



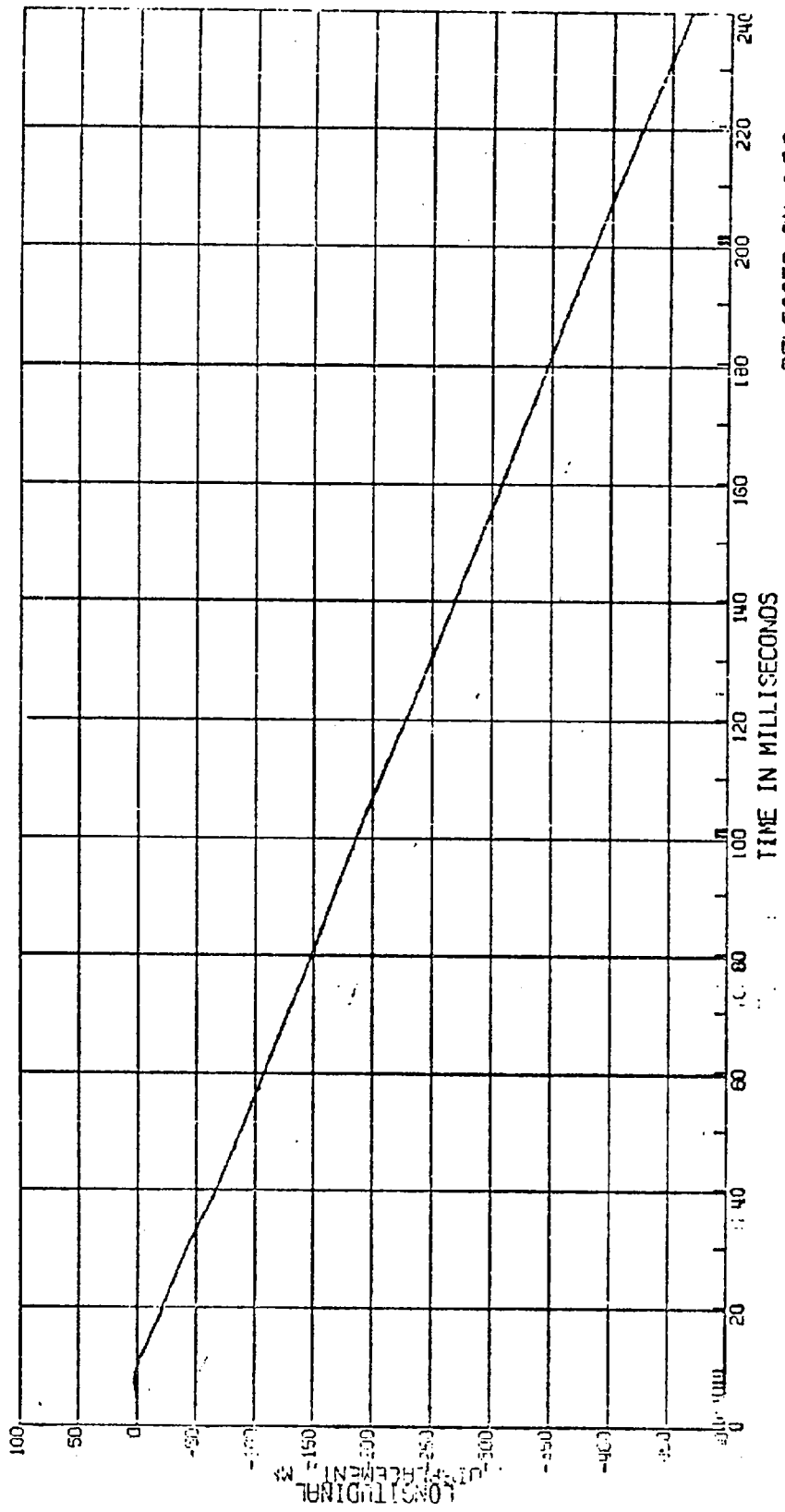
RELEASED BY: *gk/3*
 16 PROCESSED 12 APR 85 13:56

RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.4KM/H FIGURE 27
 TEST DATE: 04-11-85
 COMPUTED AT FRT DOUR (A) DISPLACEMENT
 (2ND INTEGRAL ACCELERATION)
 PC 3JC77 (STRUCK)
 DATA SAE CLASS 180



RELEASED BY: 9/273
 19 PROCESSED 12 RP 85 14:0:

CC192A RIGHT SIDE IMPACT : MOVING BARRIER TO PARKED VEHICLE : 41.4 KM/H FIGURE 28
 7965-C90
 FISHER-CPC CC452 3JC77 (STUCK)
 A-D DATA SAE CLASS 180 : (2ND INTEGRAL ACCELERATION) TEST DATE: 04-11-85

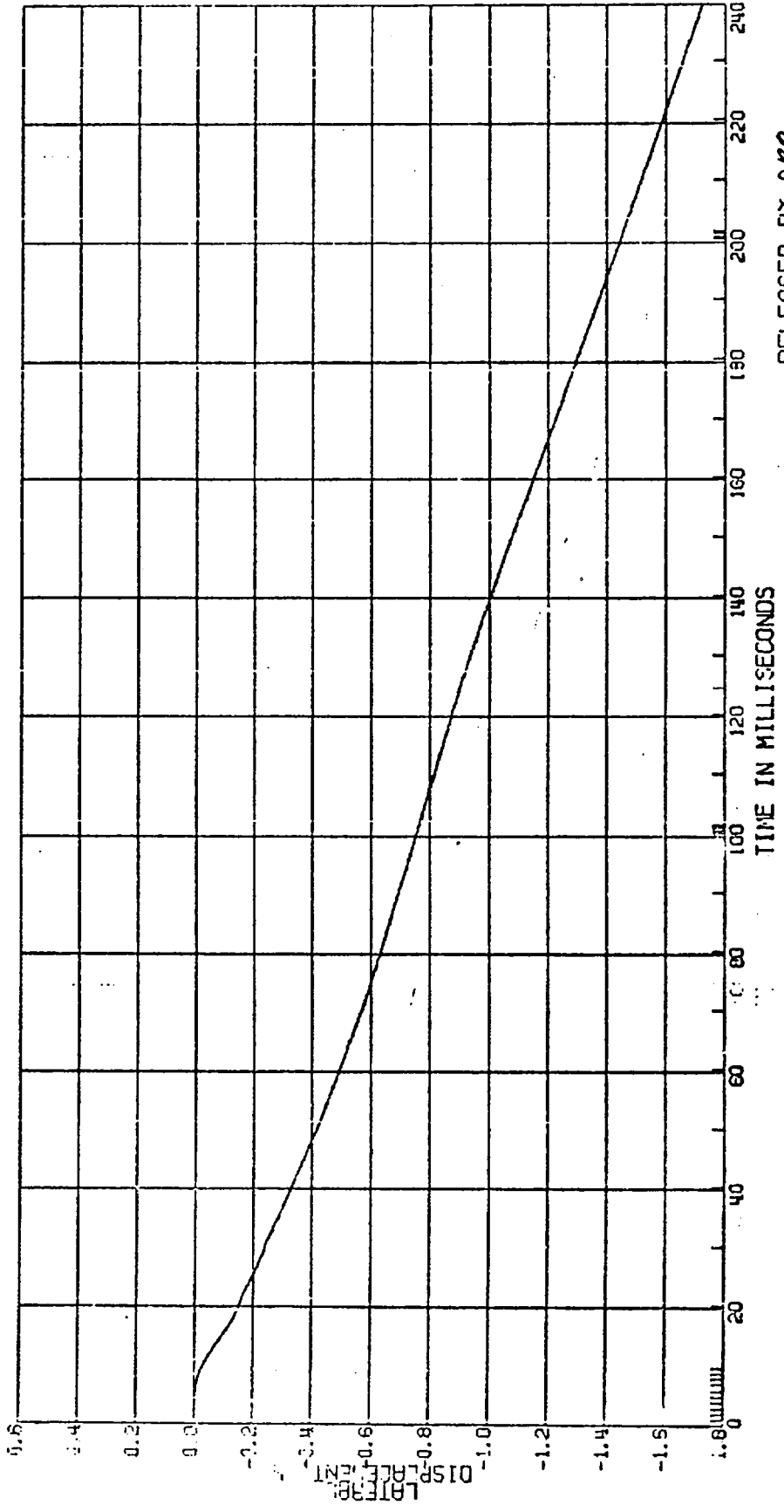


RELEASED BY: JRB
 22 PROCESSED 12 APR 85 1410S

C61J28 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE : 41.4KM/H FIGURE 29
 3865-090
 FISHER-CPC 00452 3JC77 (STRUCK)
 1-D DEPTH SAE CLASS 180

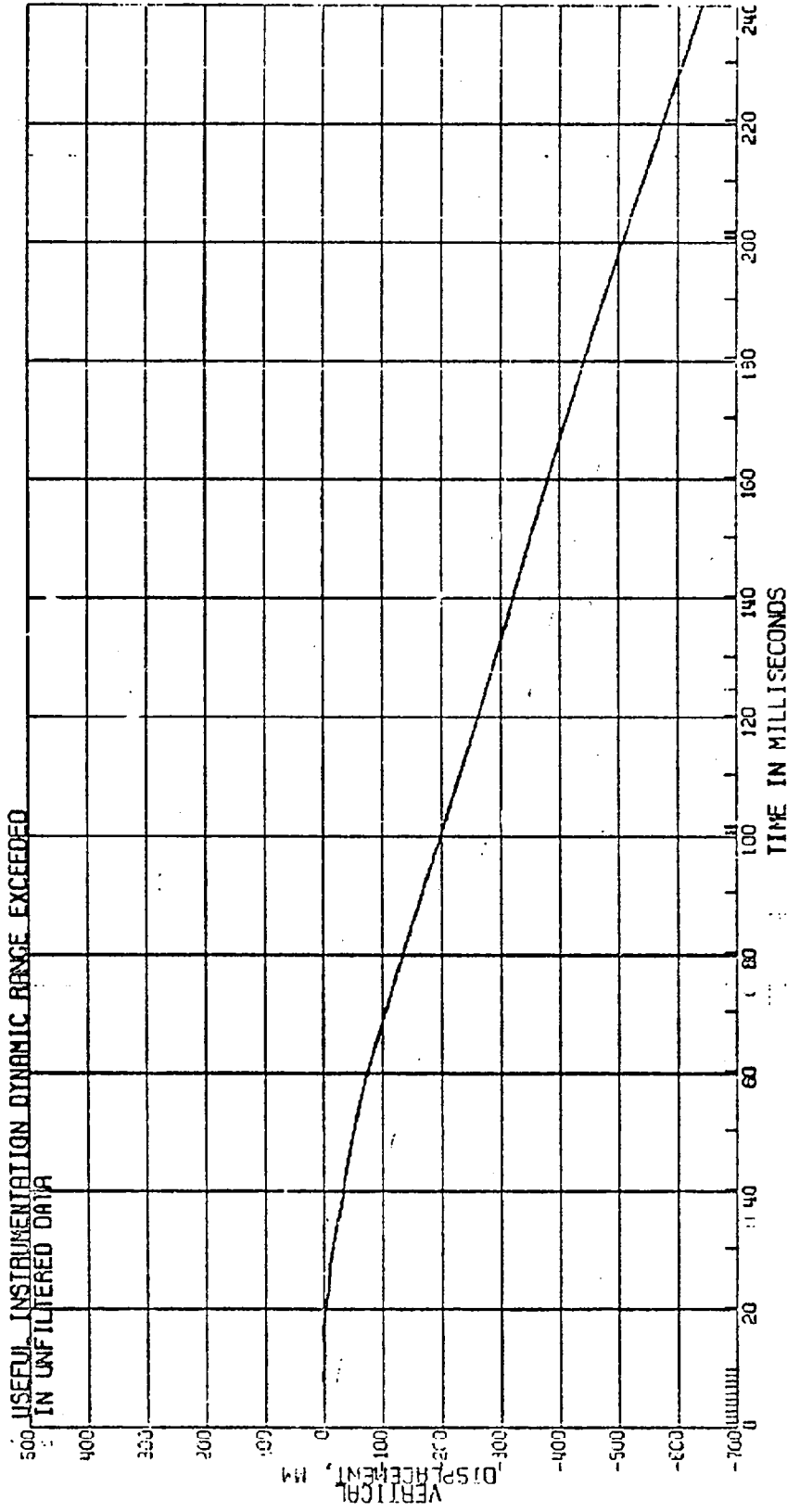
TEST DATE: 04-11-85

(2ND INTEGRAL ACCELERATION)



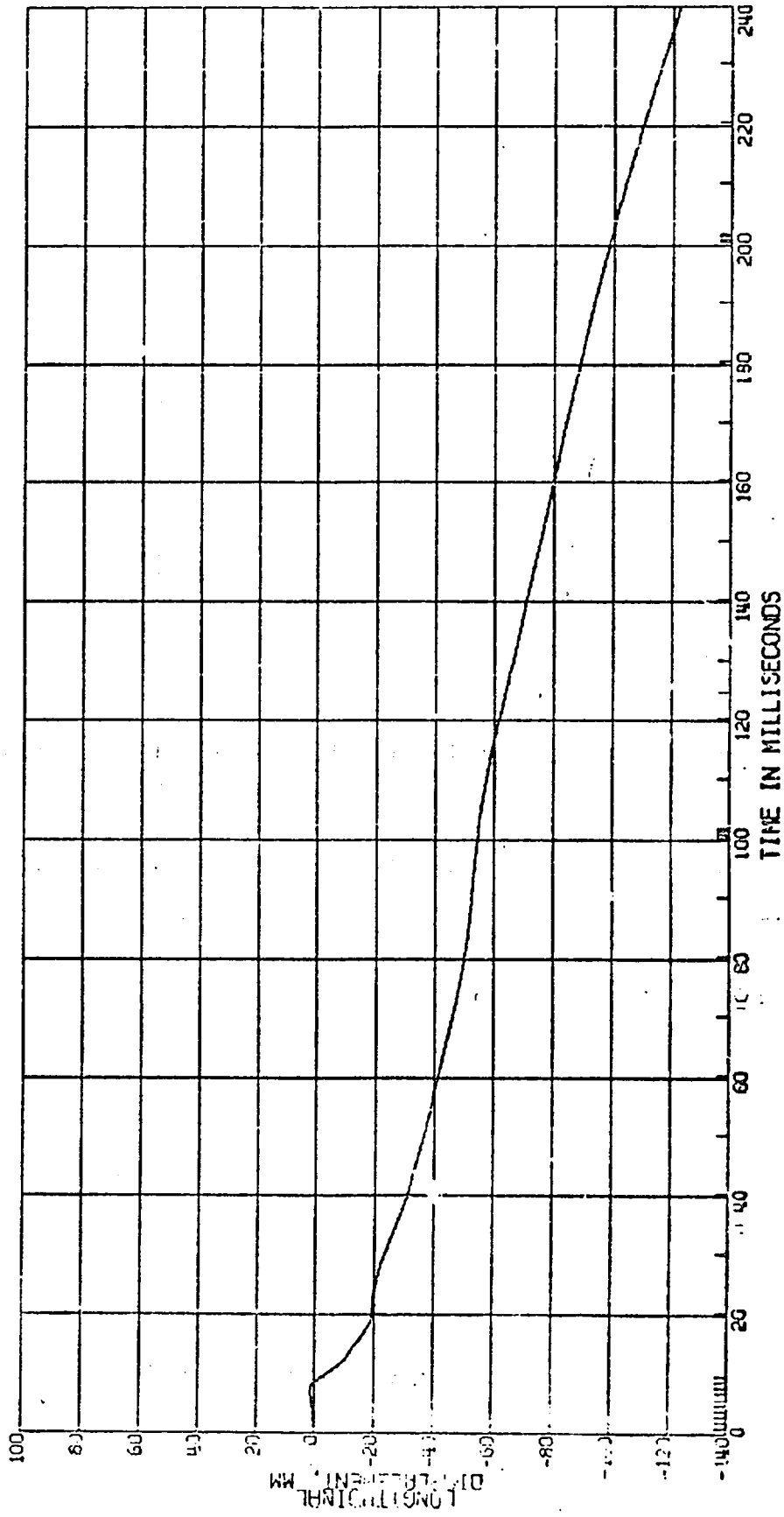
RELEASED BY: *gkb*
 25 PROCESSED 12 APR 85 1410'

CCI 2P RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE : 41.4 KM/H FIGURE 30
 3625-090
 FISHER-CPC CC452 3JC77 (STRUCK)
 R-D DATA SAE CLASS 180
 COMPUTED RT FRT DOOR (B) DISPLACEMENT
 TEST DATE: 04-11-85
 (2ND INTEGRAL ACCELERATION)



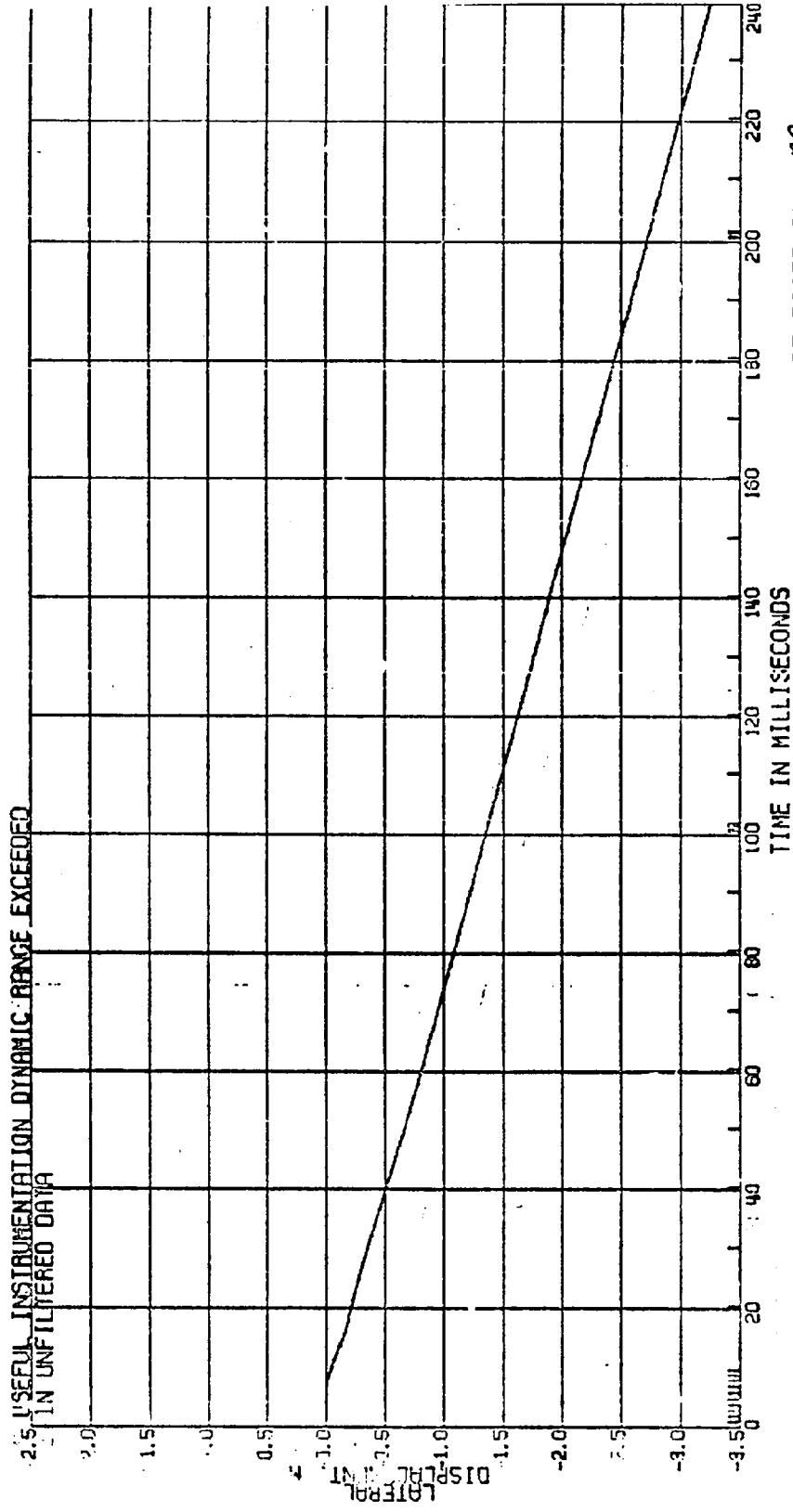
RELEASED BY: *RPB*
 28 PROCESSED 12 APR 85 14:01

CC1228 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.4KM/H FIGURE3/
 2655-C9
 FISHER-OPC CC452 2JC77 (STRUCK) COMPUTED RT FRT DOOR (C) DISPLACEMENT TEST DATE: 04-11-85
 A-3 DATA SAE CLASS 130 (2ND INTEGRAL ACCELERATION)



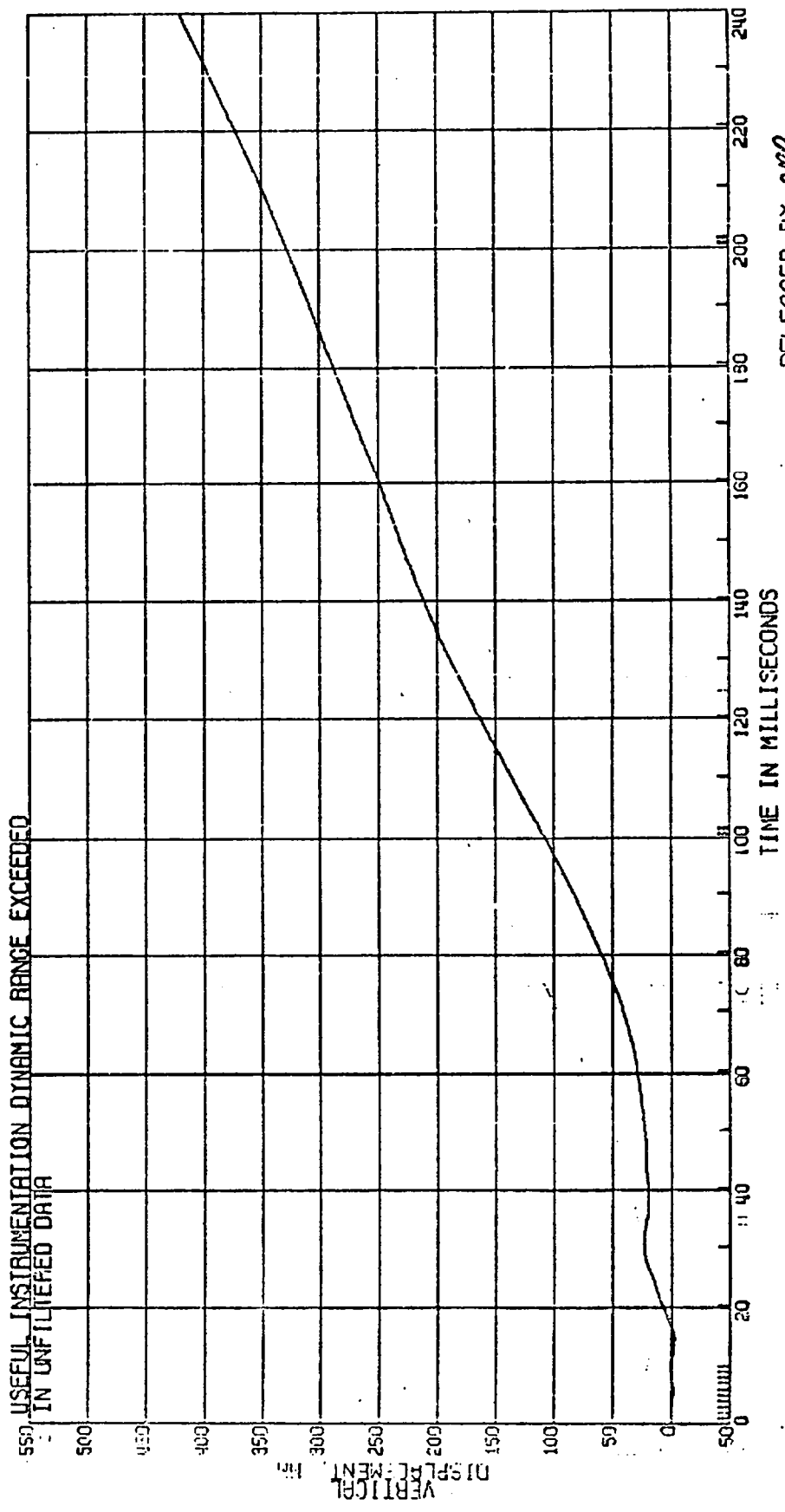
RELEASED BY: *SPB*
 31 PROCESSED 12 SEP 85 14:11

C6192A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE AT 41.4 KM/H FIGURE 32
 8665-C90
 FISHER-CPC CC452 3JC77 (STRUCK) COMPUTED RT FAT DOOR (C) DISPLACEMENT TEST DATE: 04-11-8
 A-D DATA SAE CLASS 180 : (2ND INTEGRAL ACCELERATION)



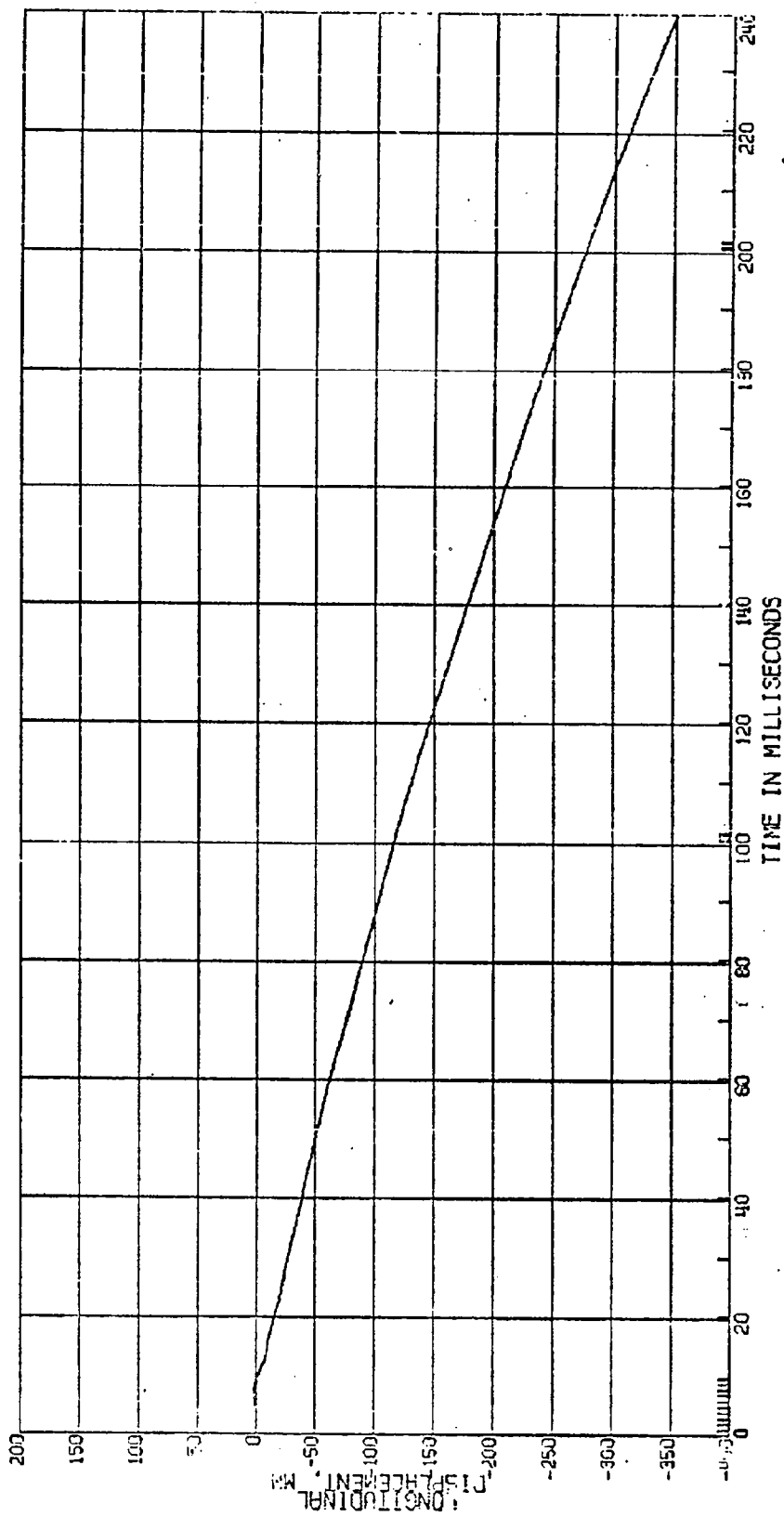
RELEASED BY: *GRB*
 34 PROCESSED 12 APR 85 14:13

CO 12F RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.4 KM/H FIGURE 33
 3805-C90
 F1511F-CPC C0452 3JC77 (STRUCK)
 A-B DATA SAE CLASS 180
 TEST DATE: 04-11-85
 COMPUTED AT FRT DOOR (C) DISPLACEMENT
 (2ND INTEGRAL ACCELERATION)



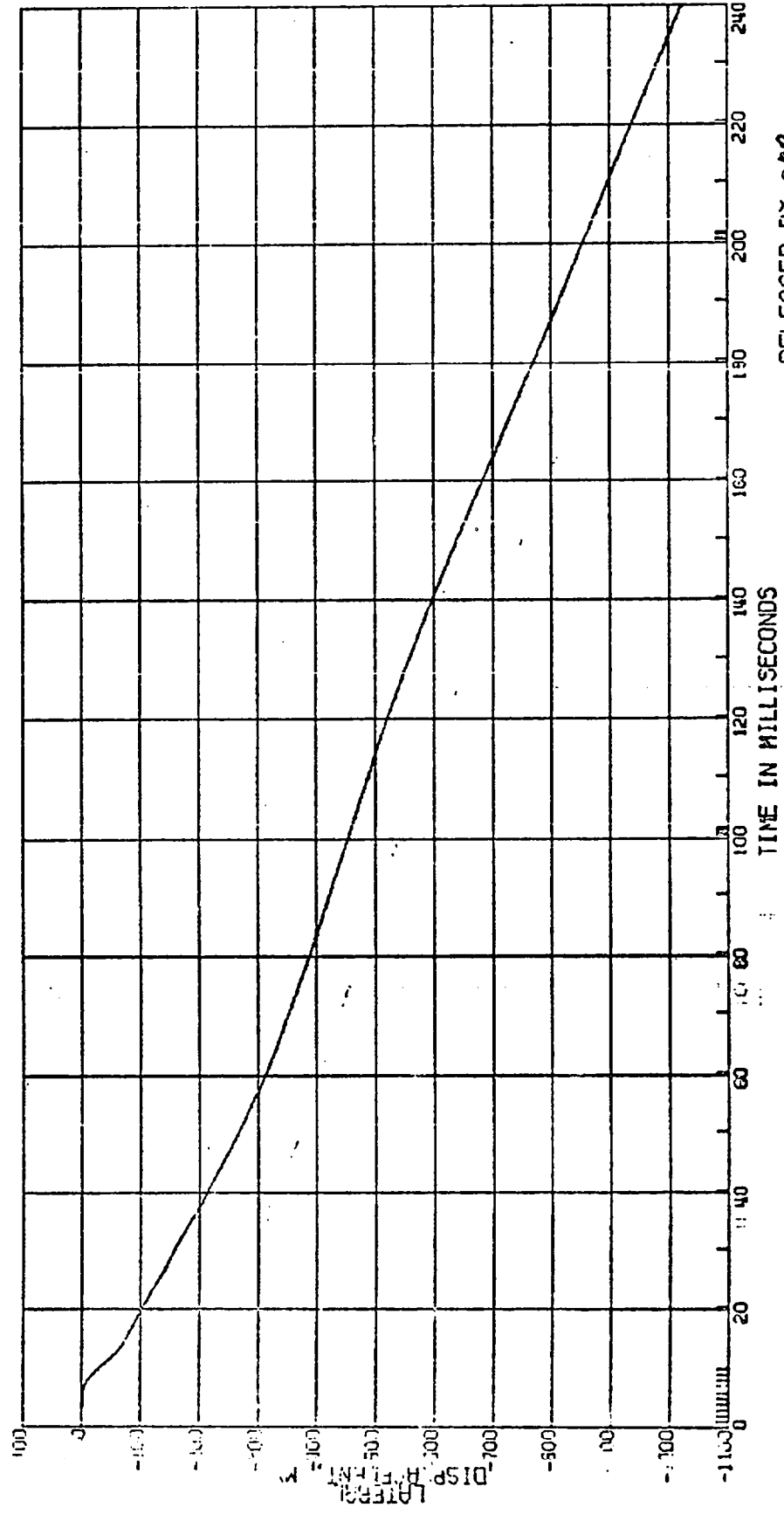
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 37 PROCESSED 12 APR 85 14:15

FISHER RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.4 KM/H FIGURE 34
 9867-090
 FISHER-SPC CC452 3JC77 (STRAUCK) COMPUTED AT FAT DOOR (D) DISPLACEMENT TEST DATE: 04-11-85
 R-E DATA SAE CLASS 180 (2ND INTEGRAL ACCELERATION)



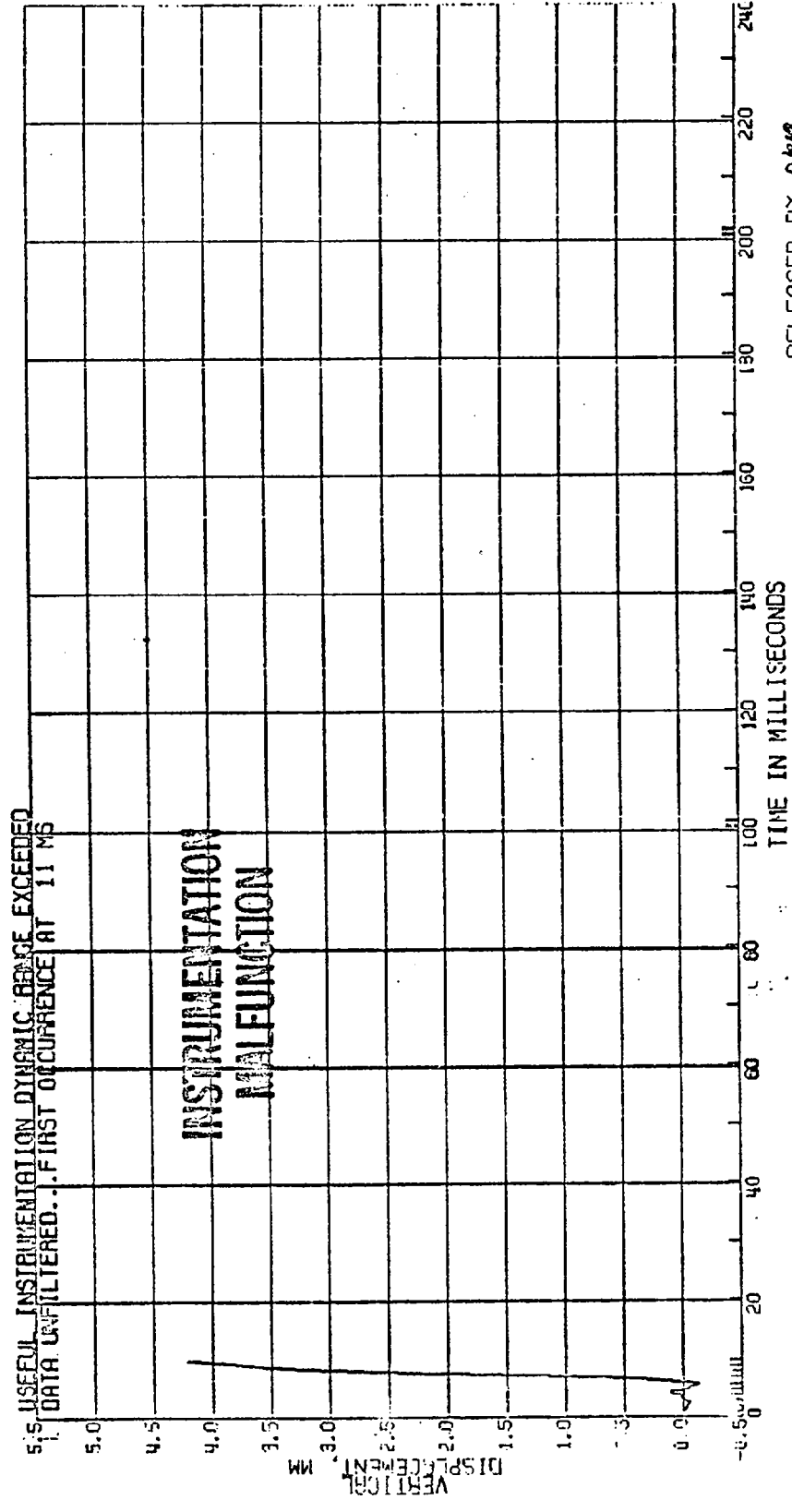
RELEASED BY: *gld*
 40 PROCESSED 12 APR 85 14:10

COLLISION RIGHT SIDE IMPACT : MOVING BARRIER TO PARKED VEHICLE : 41.4KM/H FIGURE 35
 8865-290
 PLATEAU-CPD CC452 3JC77 (STRUCK)
 2-2 DATA SAE CLASS 180
 COMPUTED AT FAT DOOR (D) DISPLACEMENT
 TEST DATE: 04-11-85
 (2ND INTEGRAL ACCELERATION)



RELEASED BY: *gpb*
 43 PROCESSED 12 AP 85 14:11

06.20R RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.4 KM/H FIGURE 36
 3000-C90
 FISHER-OPC CC452 3JC77 (STRUCK)
 F-0 DATA SAE CLASS L80
 INC USED IF NOTED BELOW : (2ND INTEGRAL ACCELERATION) TEST DATE: 04-11-85



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 46 PROCESSED 12 APR 05 1412

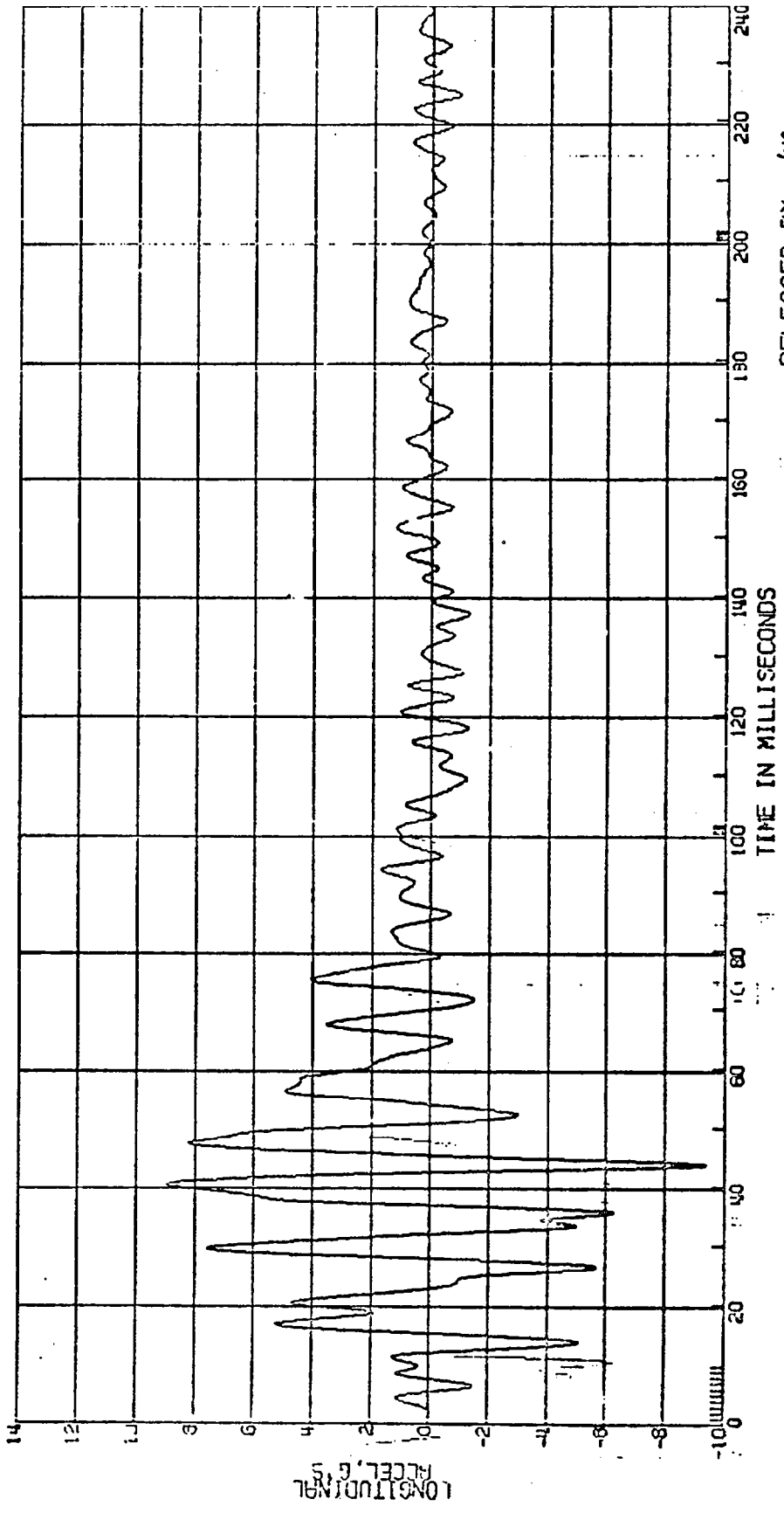
FRONT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.4 KM/H FIGURE 37

TEST DATE: 08-11-85

OR-SIDE FLOOR PAN ACCEL.

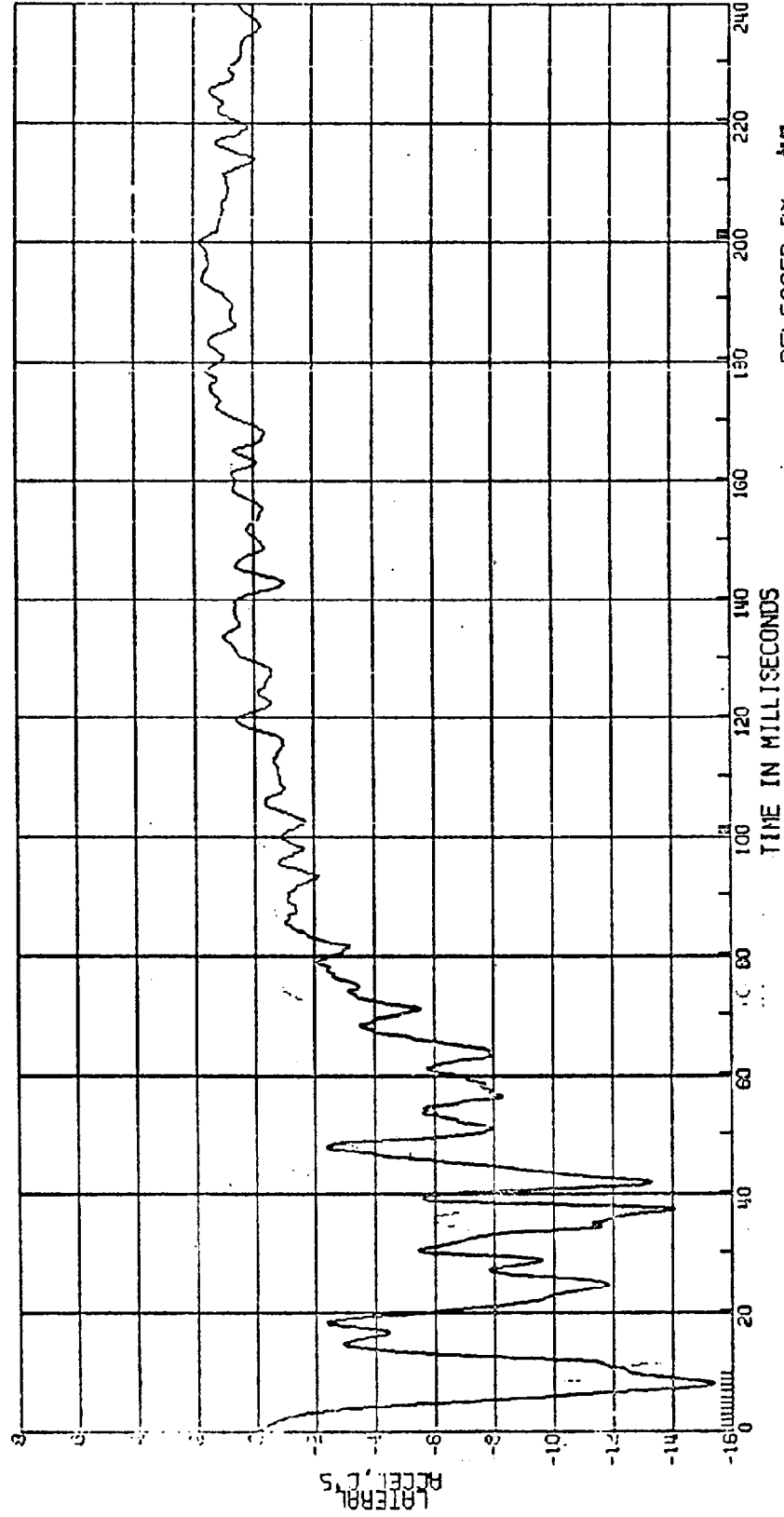
3JC77 (STUCK)

H-O DATA SAE CLF55 60



RELEASED BY: *[Signature]*
50 PROCESSED 12 APR 85 14:44

CG12R RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE AT 41.4 KM/H FIGURE 38
3833-C90
FISHER-ORC CC452 3JC77 (STRUCK)
R-C OFTA SRE CLASS 60
TEST DATE: 04-11-85

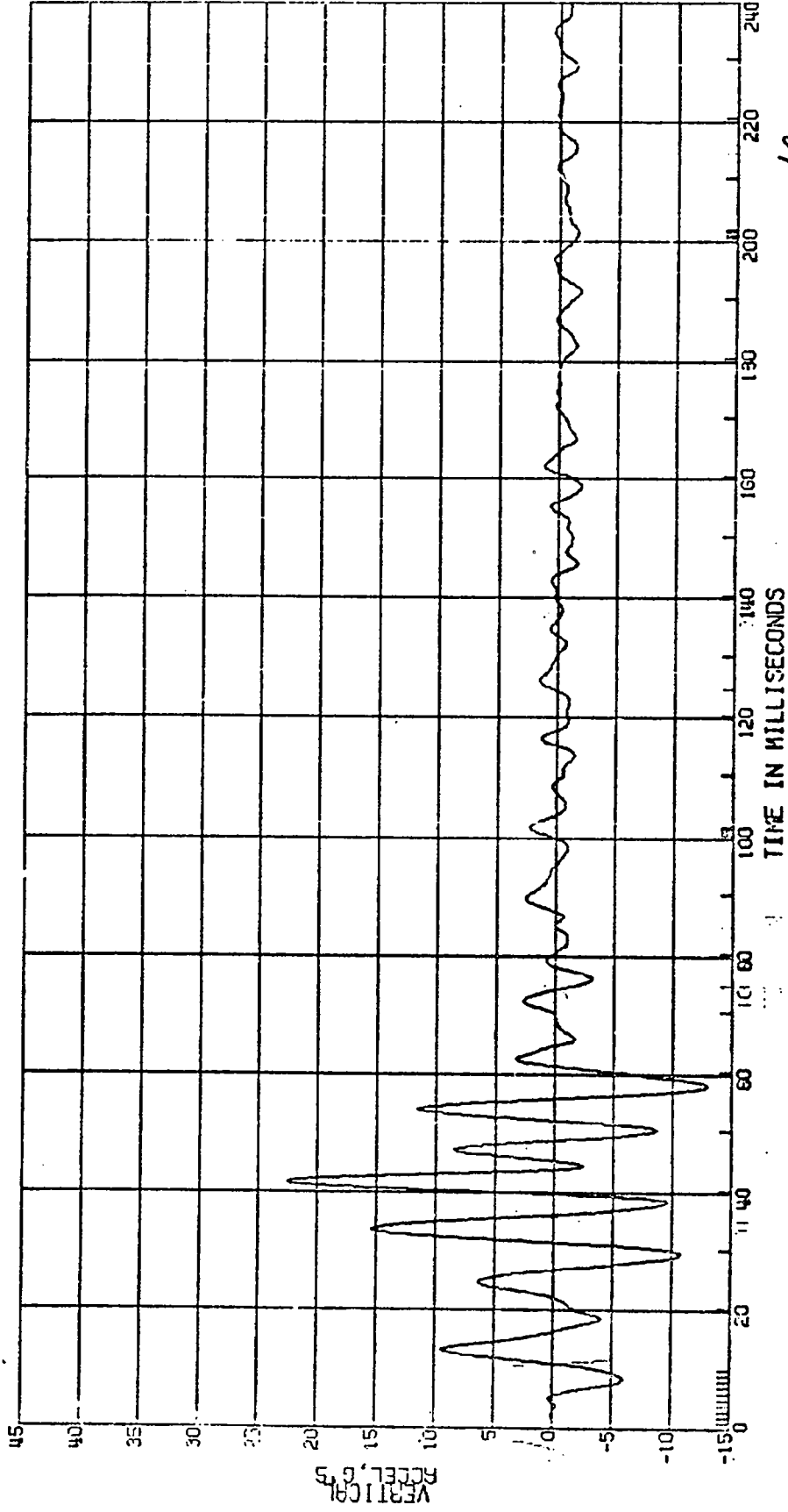


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56 PROCESSED 12 APR 85 14:47

192A RIGHT SIDE IMPACT
3001-090
3001-090
A-3 DATA SAE CLASS 60

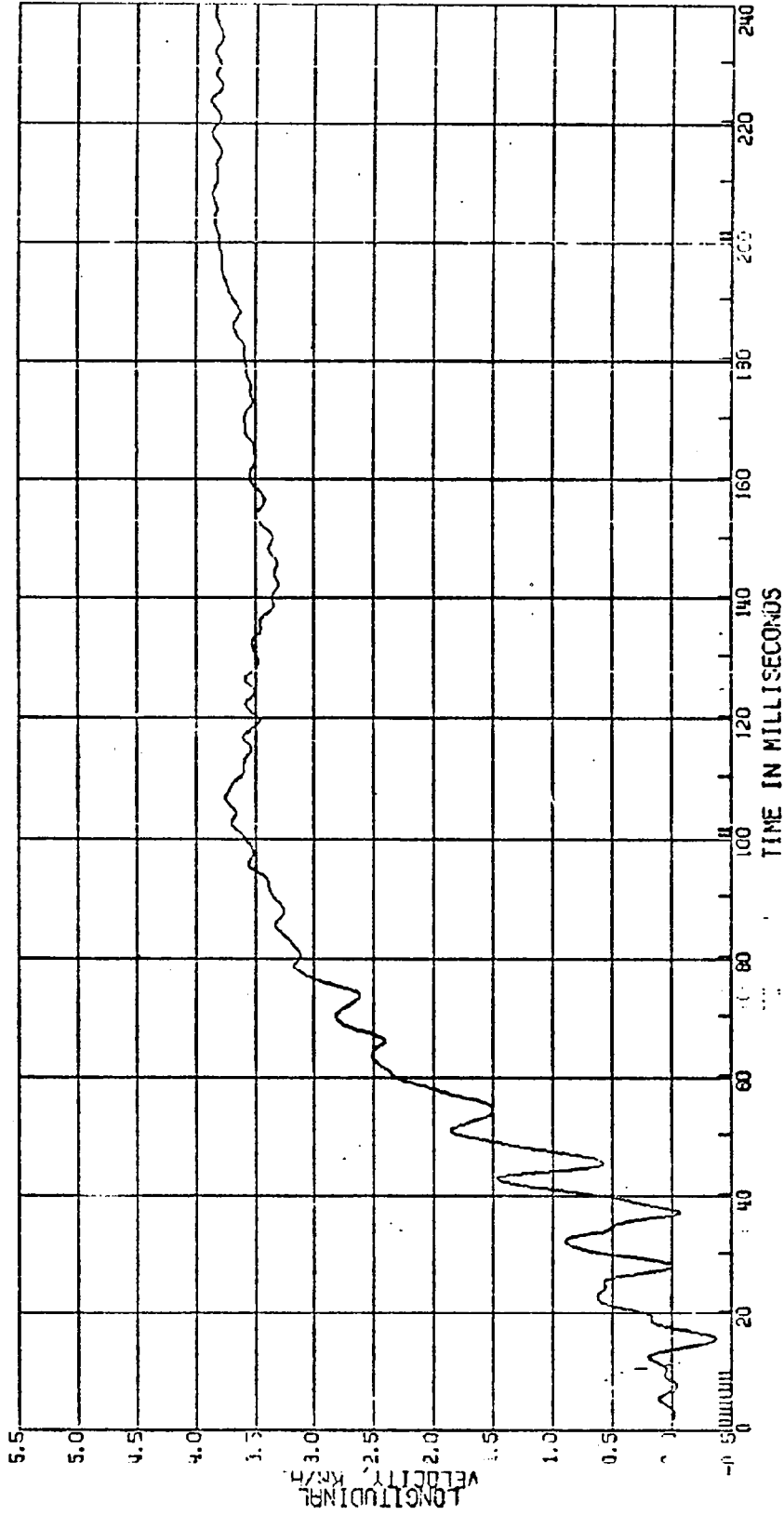
MOVING BARRIER TO PARKED VEHICLE : 41.4KM/H FIGURE 39
DR-SIDE FLOOR PAN ACCEL.

TEST DATE: 04-11-85



RELEASED BY: JAB
59 PROCESSED 12 AP 85 1414"

CC192F RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE : 41.4 KM/H FIGURE 40
3865-090
FLOOR-UPC CC452 3JC77 (STRUCK) COMPUTED FLOOR PAN VELOCITY TEST DATE: 04-11-85
A-D DATA SAE CLASS 180 (1ST INTEGRAL DRS-SIDE ACCELERATION)



RELEASED BY: *[Signature]*
51 PROCESSED 12 APR 85 1414G

CG192P RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE @ 41.4 KM/H FIGURE 41

3885-050

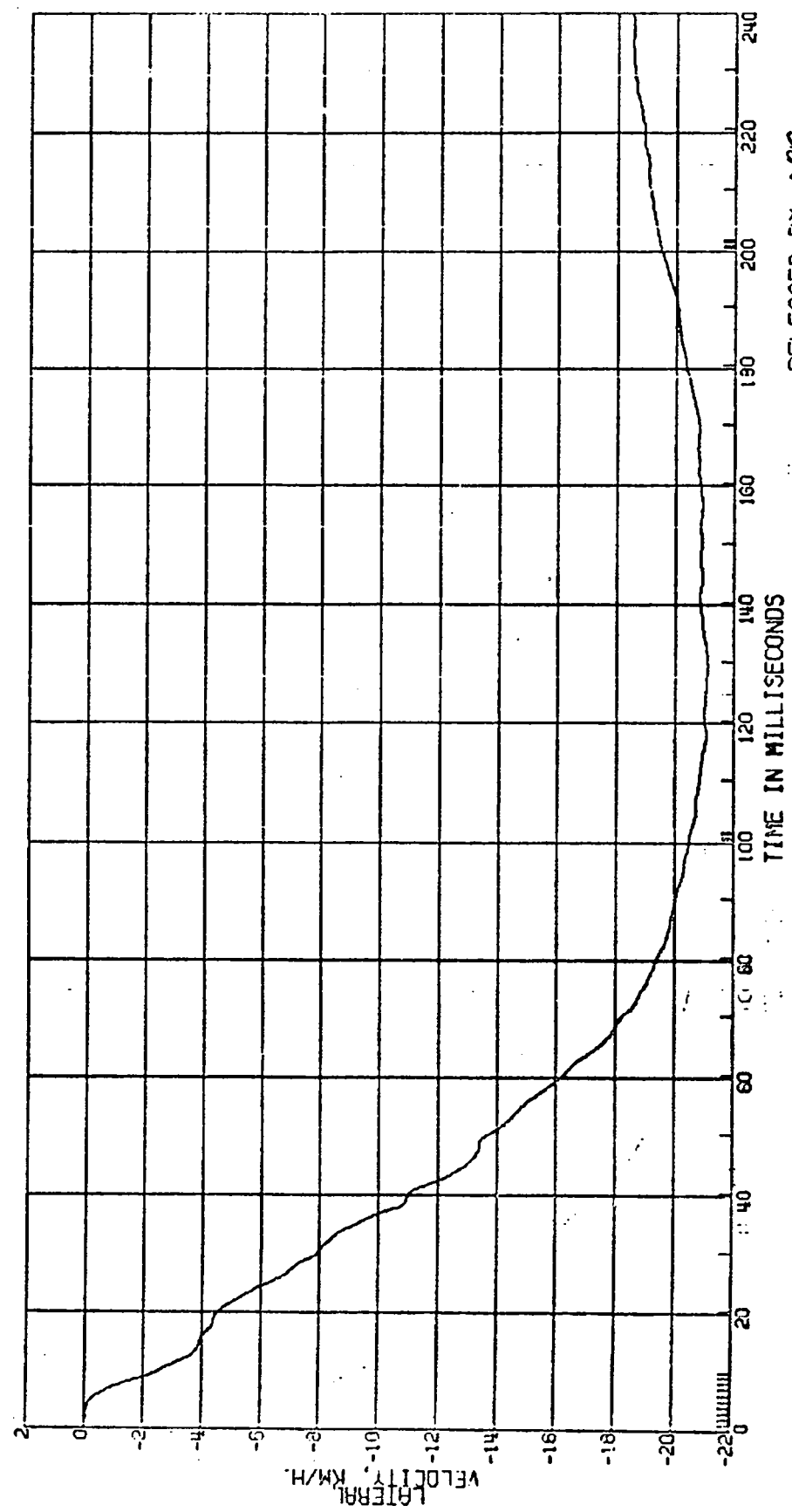
VEHICLE NO. CC452 9JC77 (STRUCK)

COMPUTED FLOOR PAN VELOCITY

TEST DATE: 04-11-85

8-J DATA SAE CLASS 180

(1ST INTEGRAL DRG-SIDE ACCELERATION)



RELEASED BY: *SPB*

57 PROCESSED 12 APR 85 14:47

RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE

41.4 KM/H FIGURE 42

1985-930

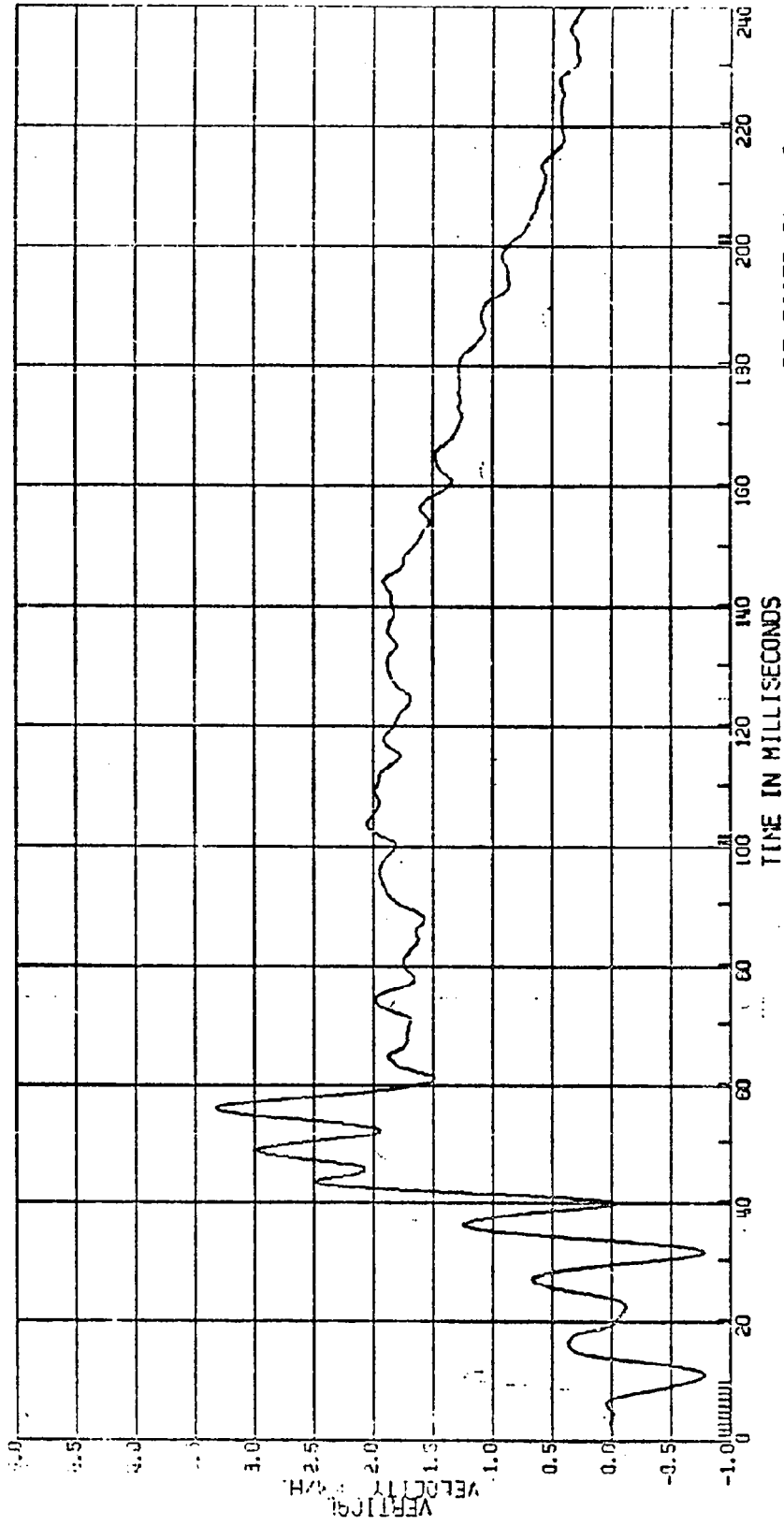
PLATE-CPC CC452 3JC77 (STRUCK)

2-B ETA SAE CLASS 180

COMPUTED FLOOR PAN VELOCITY

TEST DATE: 04-11-85

(1ST INTEGRAL DRS-SIDE ACCELERATION)

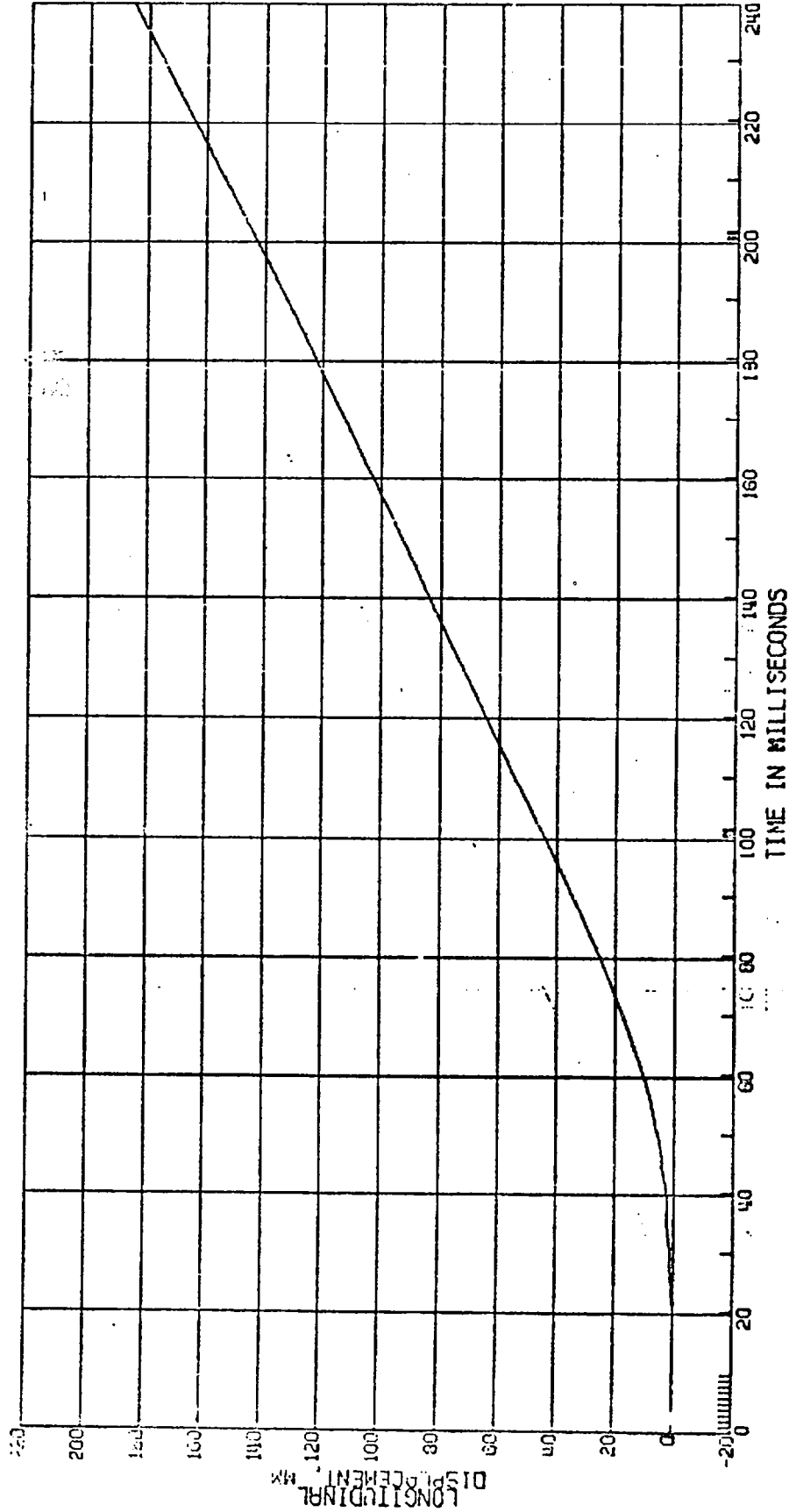


RELEASED BY: *gk/B*
60 PROCESSED 12 AP 85 14:40

RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.4 KM/H FIGURE 43
3005-C90
PC COVER 3JC77 (STRUCK)
DATA SAE CLASS 160

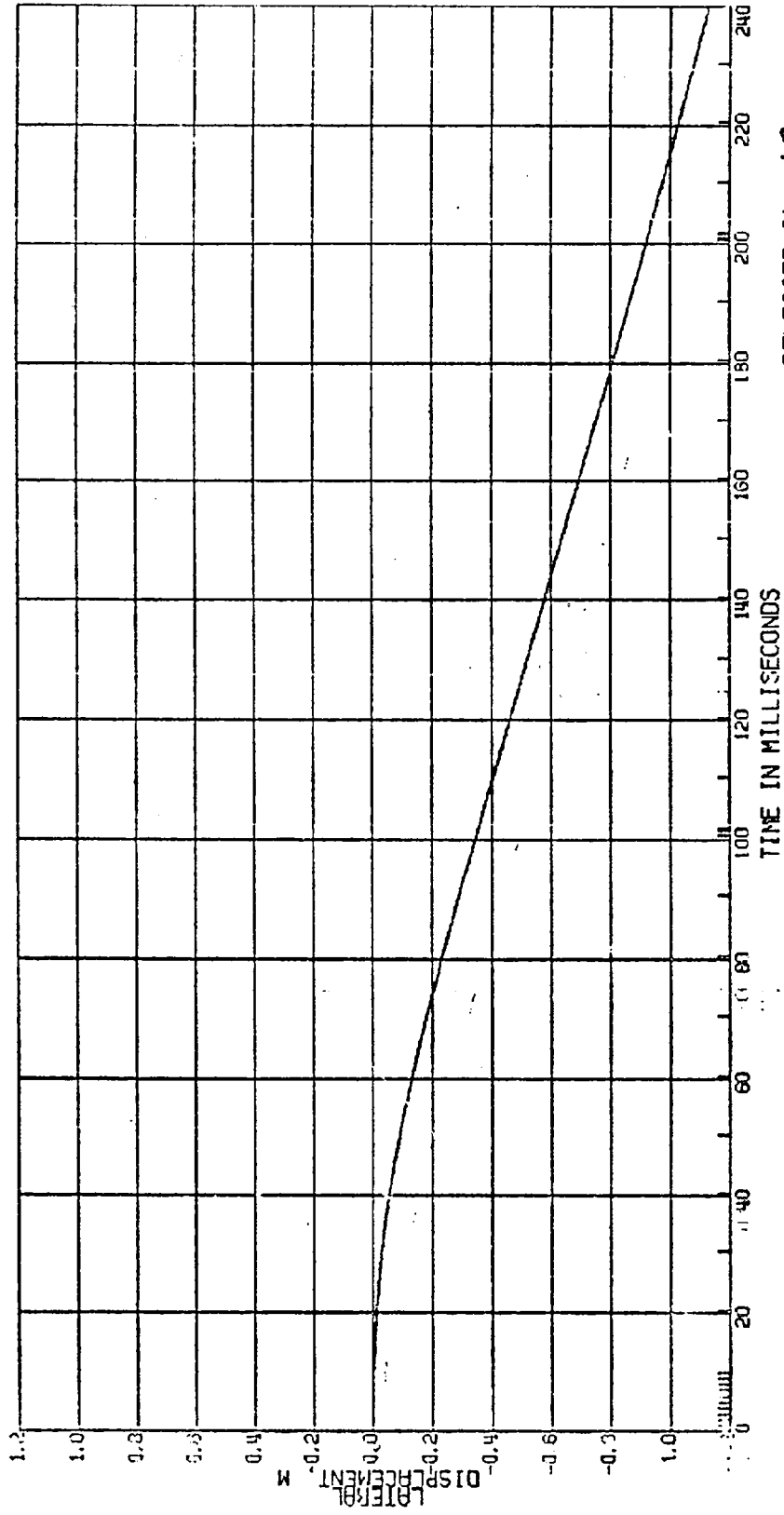
COMPUTED FLOOR PAN DISPLACEMENT
(2ND INTEGRAL DR-SIDE ACCELERATION)

TEST DATE: 04-11-85



RELEASED BY: JRB
52 PROCESSED 12 AP 85 14:45

1974 FORD MUSTANG SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.4 KM/H FIGURE 44
 3865-C90
 FISHER-CPC CC452 3JC77 (STRUCK) COMPUTED FLOOR PAN DISPLACEMENT
 S-D (PTA SAE CLASS 180) (2ND INTEGRAL DRS-SIDE ACCELERATION) TEST DATE: 04-11-85

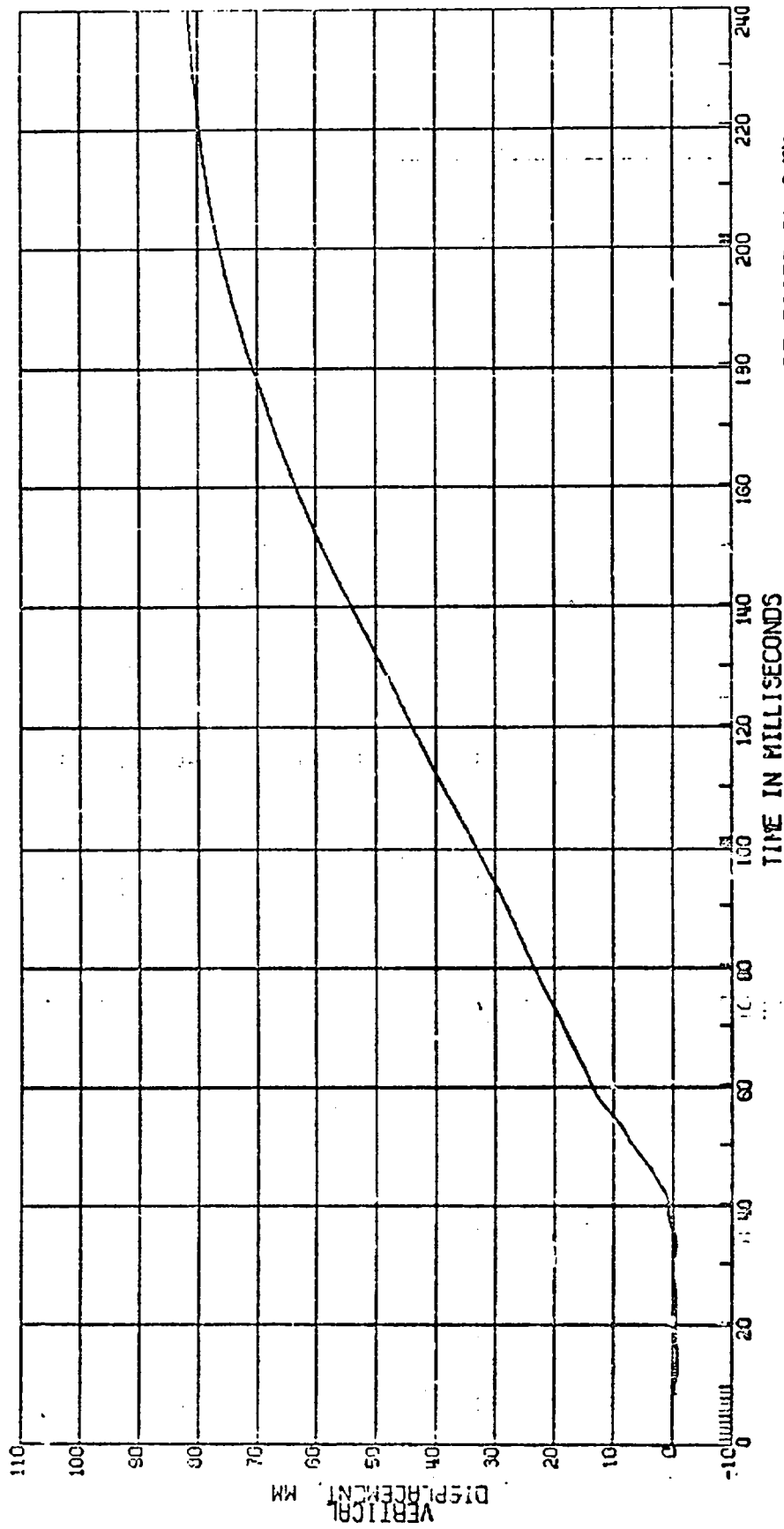


RELEASED BY: *[Signature]*
 58 PROCESSED 12 APR 85 14:47

MOVING BARRIER TO PARKED VEHICLE 41.4 KM/H FIGURE 4S

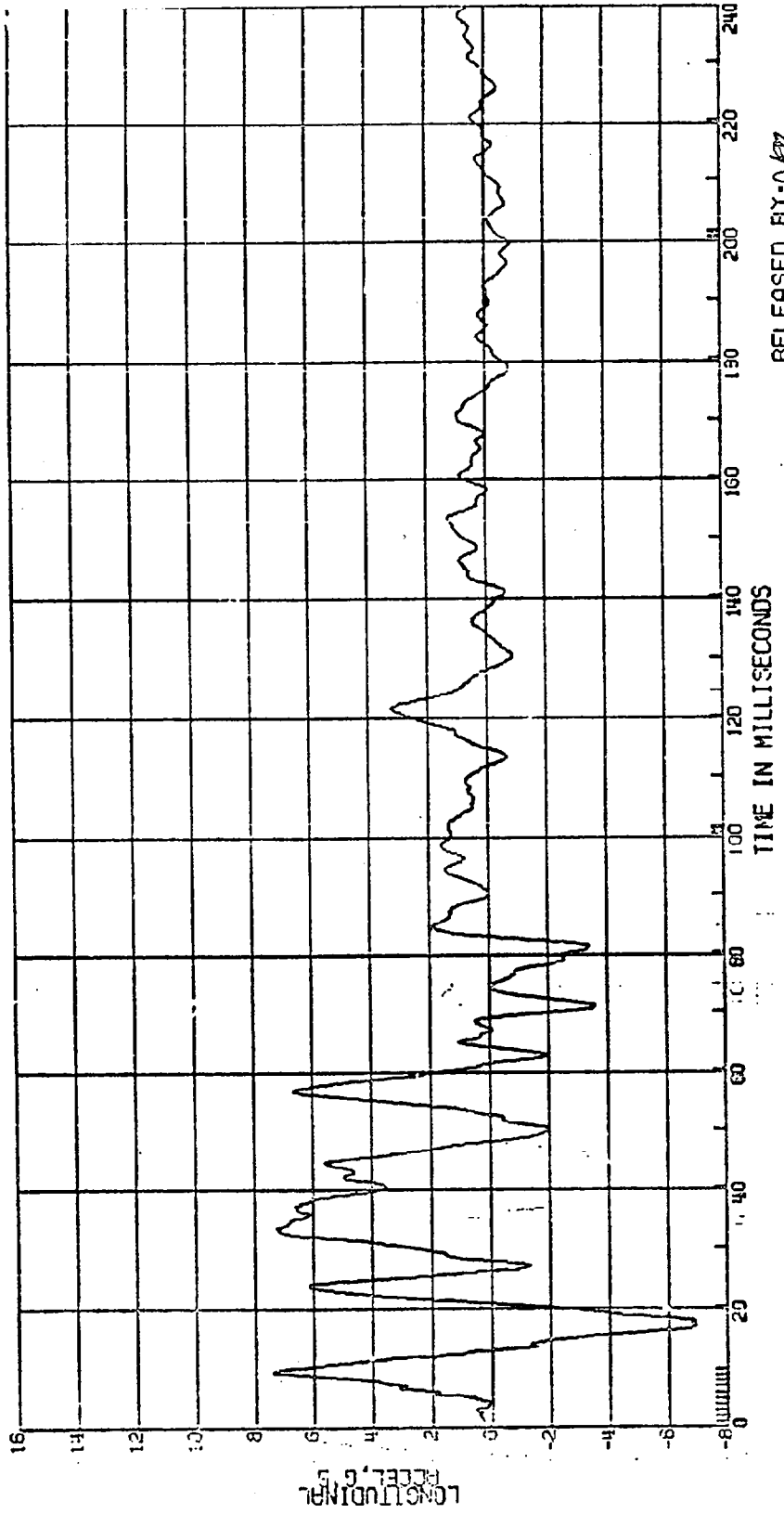
WISHER PLUM SIDE IMPACT
3E-09
FISHER-UPC CC452 3JC77 (STRUCK)
A-D DATA SAE CLASS 160

TEST DATE: 04-11-85
COMPUTED FLOOR PAN DISPLACEMENT
(2ND INTEGRAL DRS-SIDE ACCELERATION)



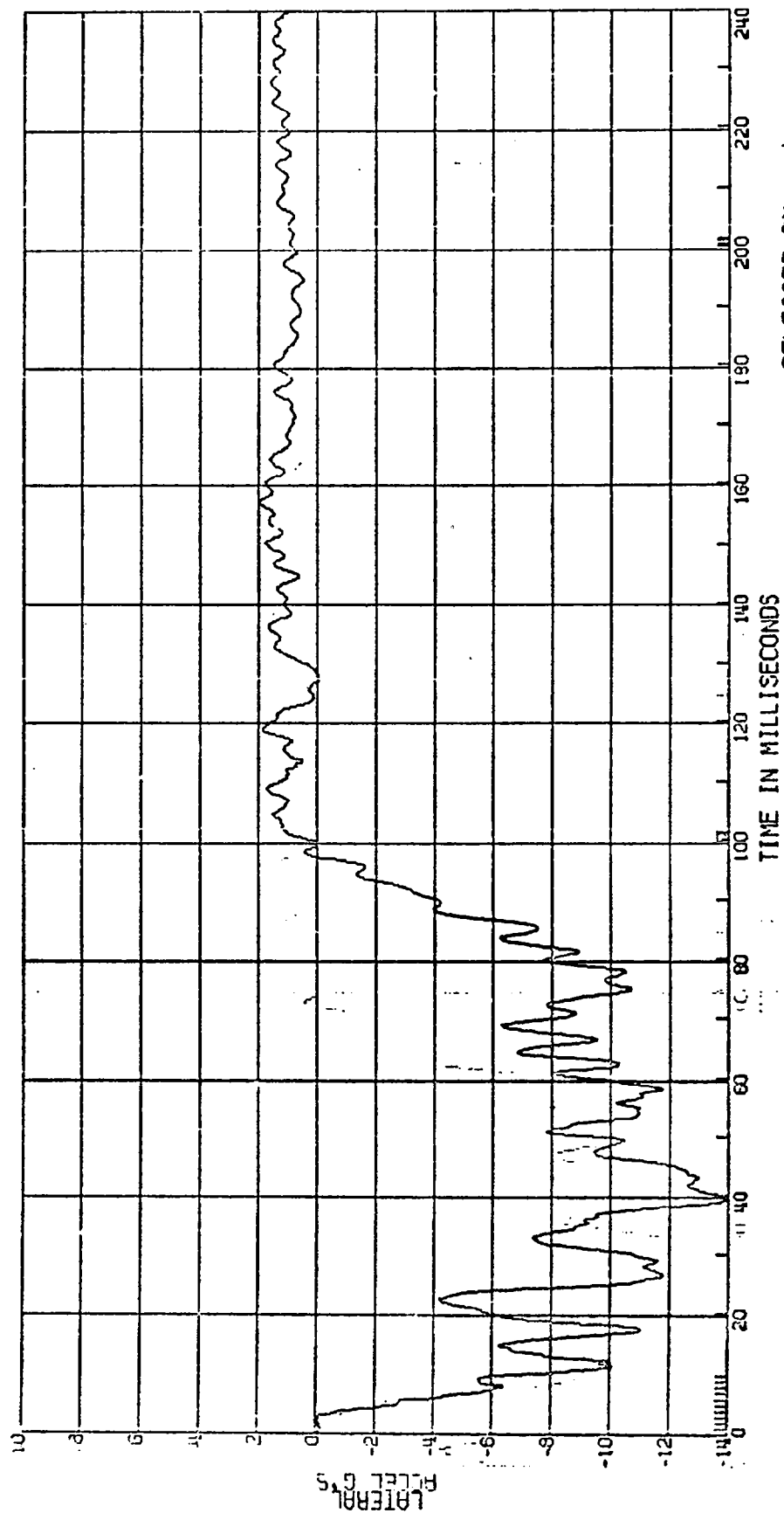
RELEASED BY: *AKS*
61 PROCESSED 12 APR 85 14:48

CC 2A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE AT 41.4 KM/H FIGURE 4b
3065-C90
FISHER-OPC CC452 3JC77 (STRUCK)
A-C DATA SAE CLF55 60 TEST DATE: 04-11-85



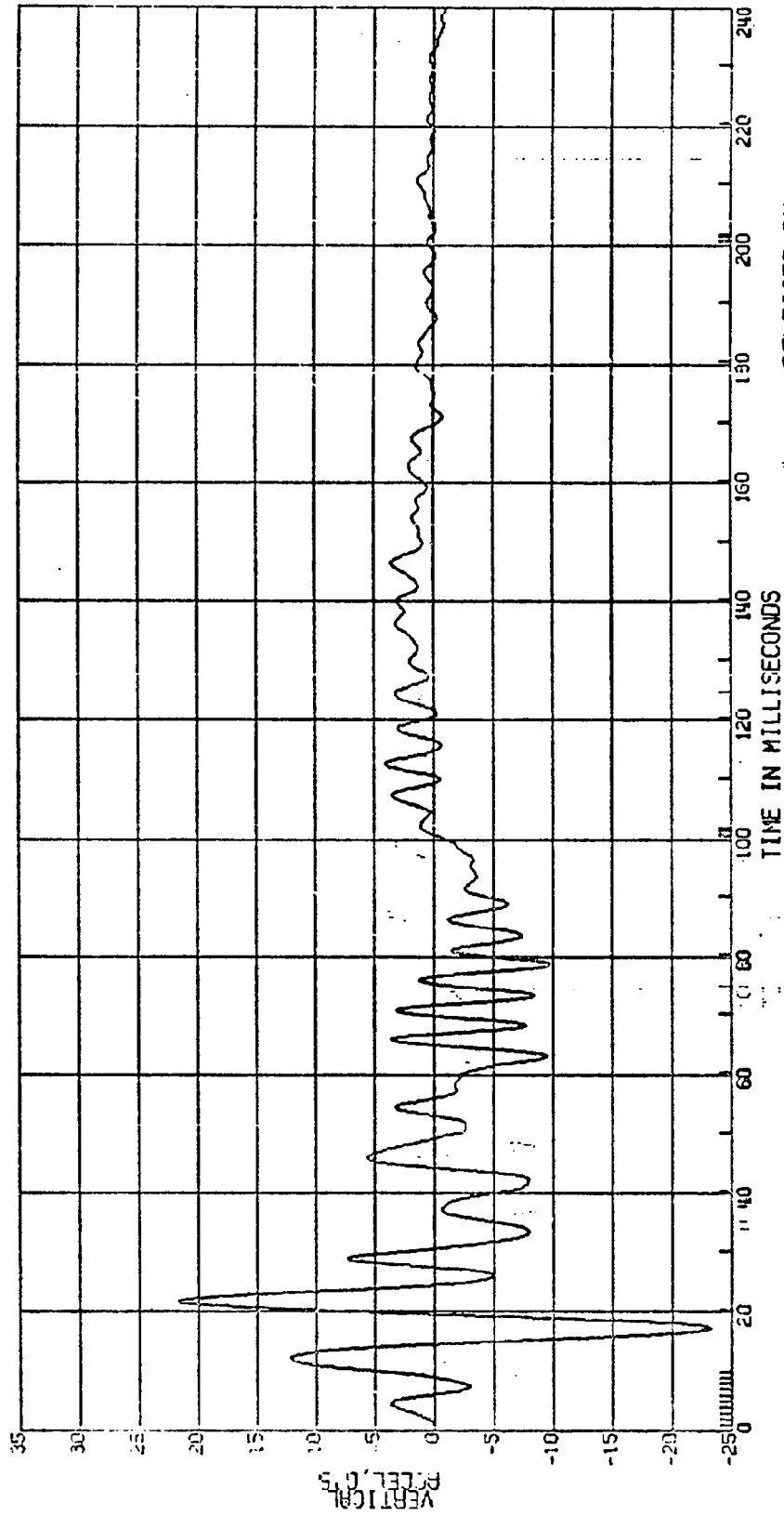
RELEASED BY: 01/23
62 PROCESSED 12 APR 85 14:40

00192R RIGHT SIDE IMPACT MOVING: BARRIER TO PARKED VEHICLE 41.4 KM/H FIGURE 47
3855-C90
P. 300E-0PC C0452 3JC77 (STRUCK)
P. 300FTA SAE CLASS 60 TEST DATE: 04-11-85



RELEASED BY: *RB*
65 PROCESSED 12 APR 85 14:50

CG 102A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.4 KM/H FIGURE 46
2885-C90
FISHER-DPC 00452 3JC77 (STRUCK)
R-0 DATA SAE CLASS 60 TEST DATE: 04-11-85



RELEASED BY: JKB
68 PROCESSED 12 APR 85 141531

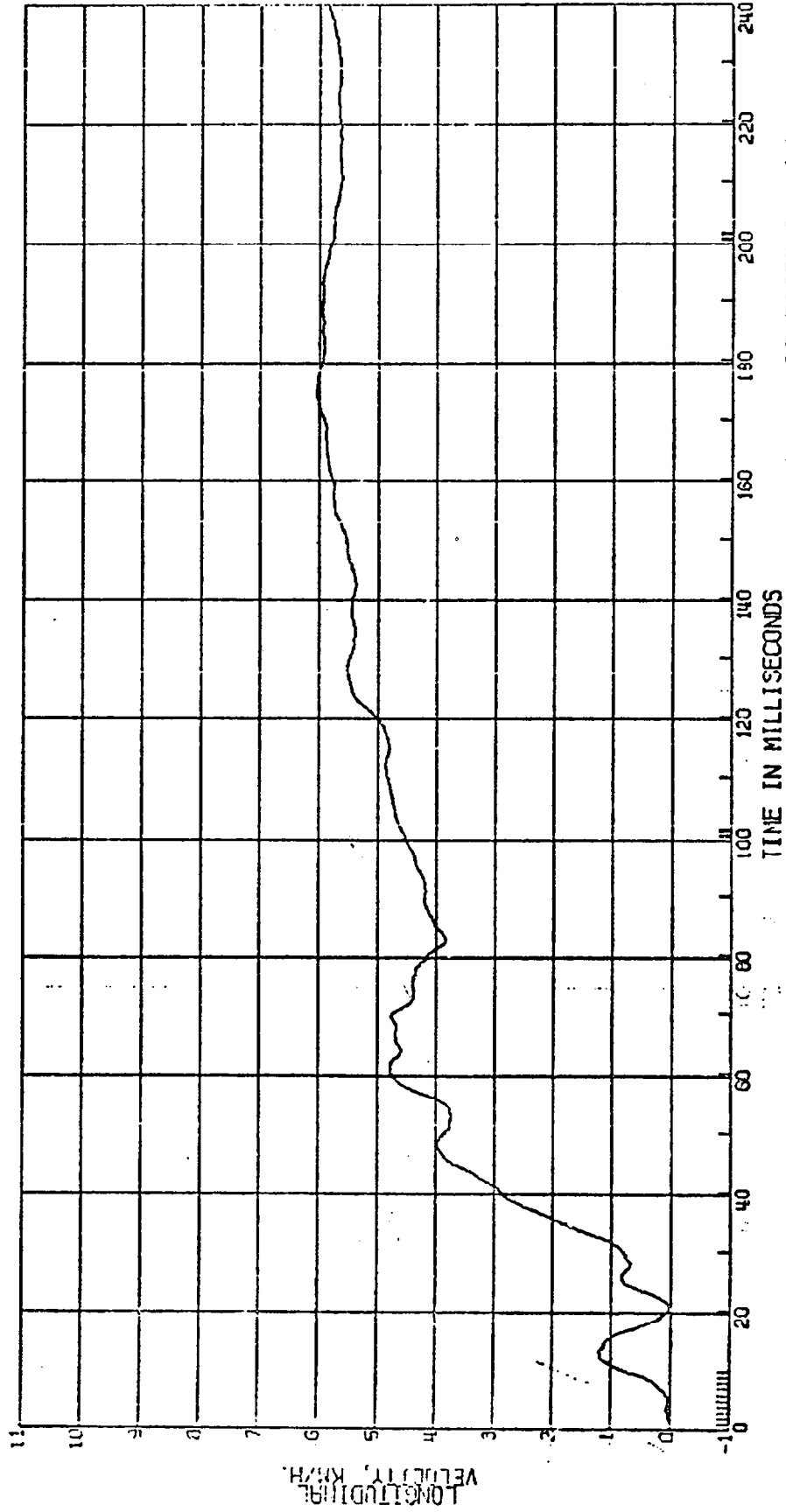
CG192A RIGHT SIDE IMPACT
3845-C90
FISHER-CPC CC452 3JC77 (STRUCK)
A-B DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE | 41.4KM/H FIGURE 49

COMPUTED TRUNK VELOCITY

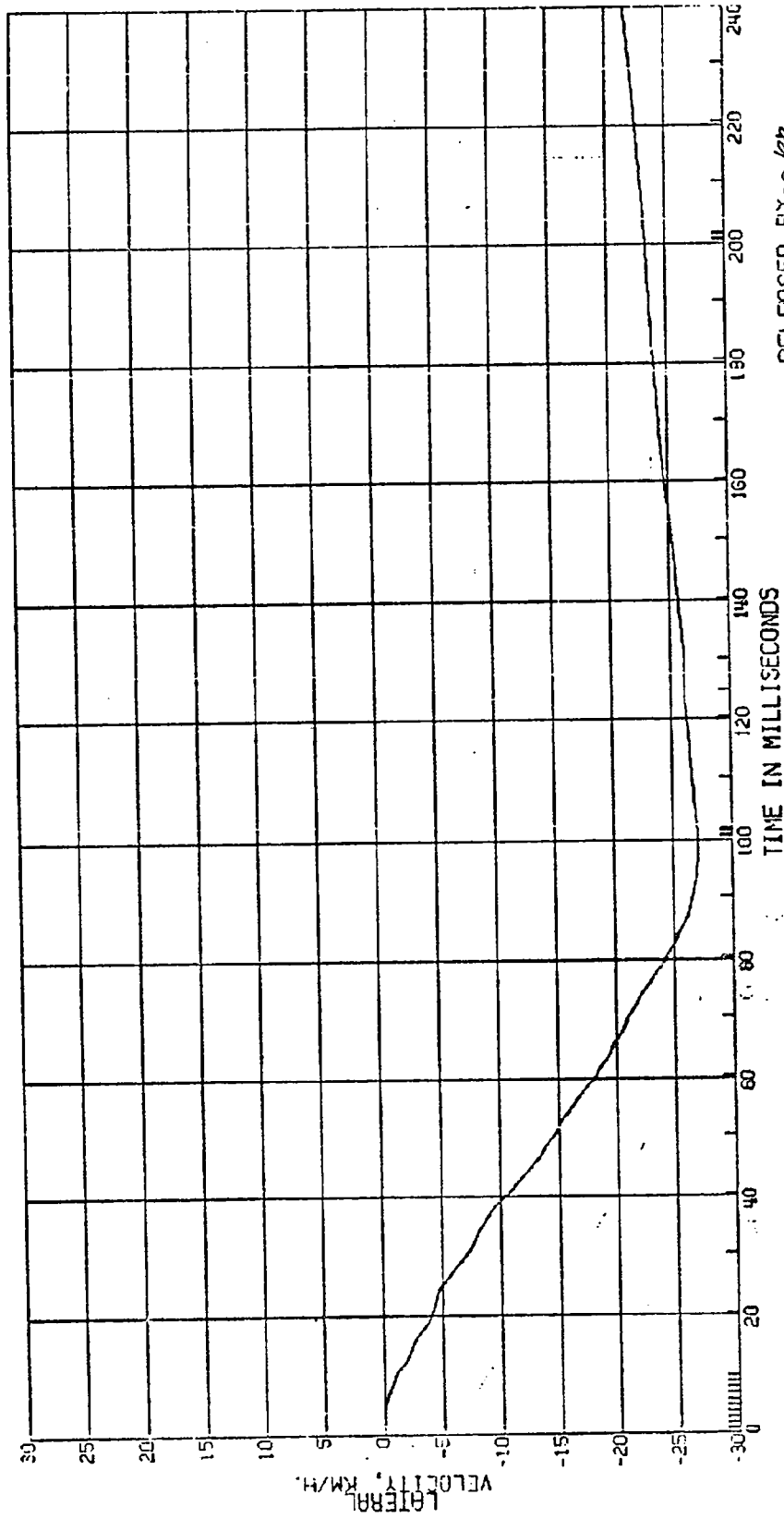
TEST DATE: 04-11-85

(1ST INTEGRAL PASS-SIDE ACCELERATION)



RELEASED BY: *[Signature]*
63 PROCESSED 12 AP 65 14:48

RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE @ 41.4 KM/H FIGURE 50
3865-C80 COMPUTED TRUNK VELOCITY
FISHER-IPC CC452 3JC77 (STRUCK)
A-D DATA SAE CLASS 180 (1ST INTEGRAL PASS-SIDE ACCELERATION)
TEST DATE: 04-11-85



RELEASED BY: *gkr*
66 PROCESSED 12 APR 85 1445

CC 152R RIGHT SIDE IMPACT

MOVING BARRIER TO PARKED VEHICLE

41.4 KM/H FIGURE 5/

SAFE-190

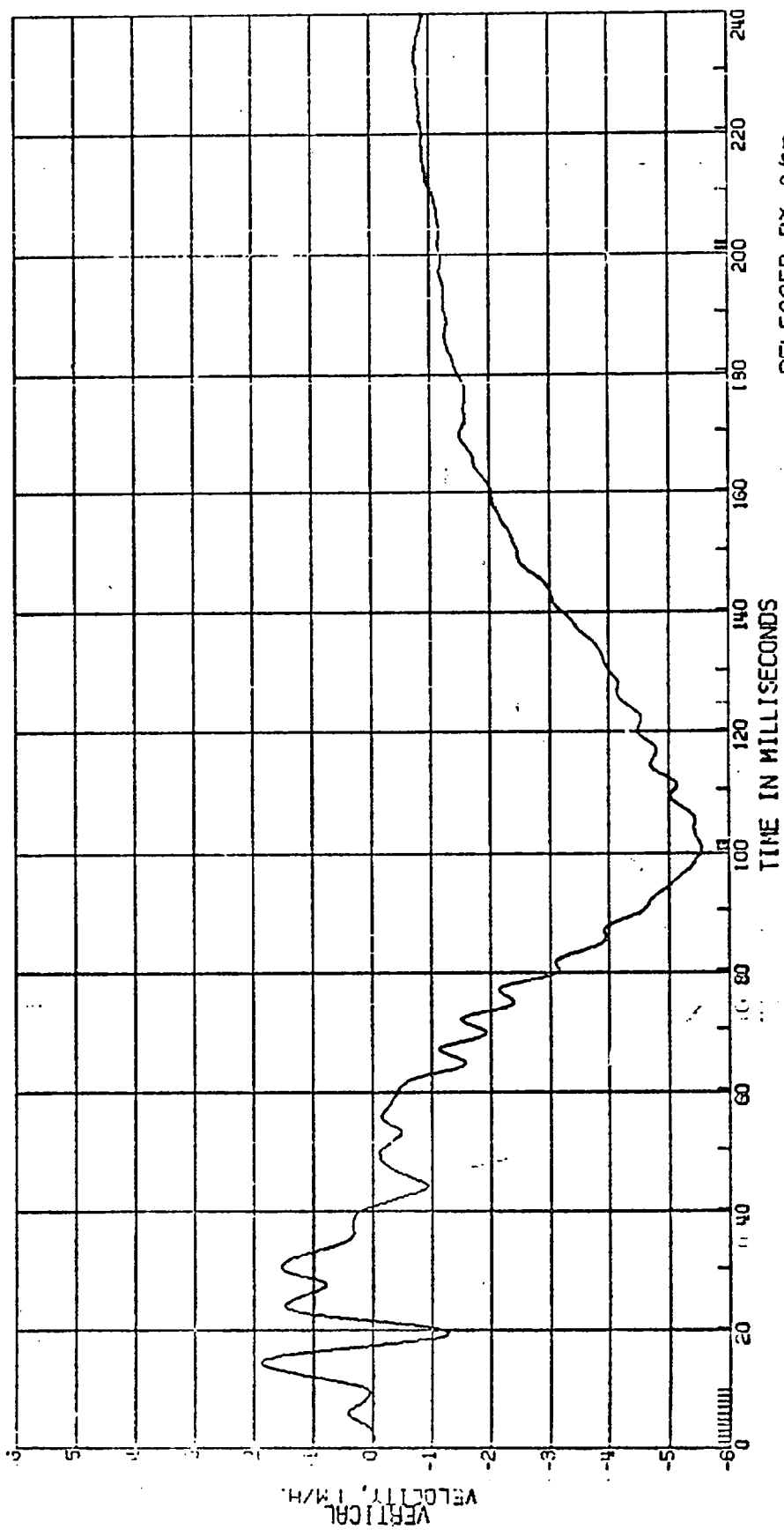
COMPUTED TRUNK VELOCITY

TEST DATE: 04-11-85

SAE J826 CC152 3JC7 (STRAUCK)

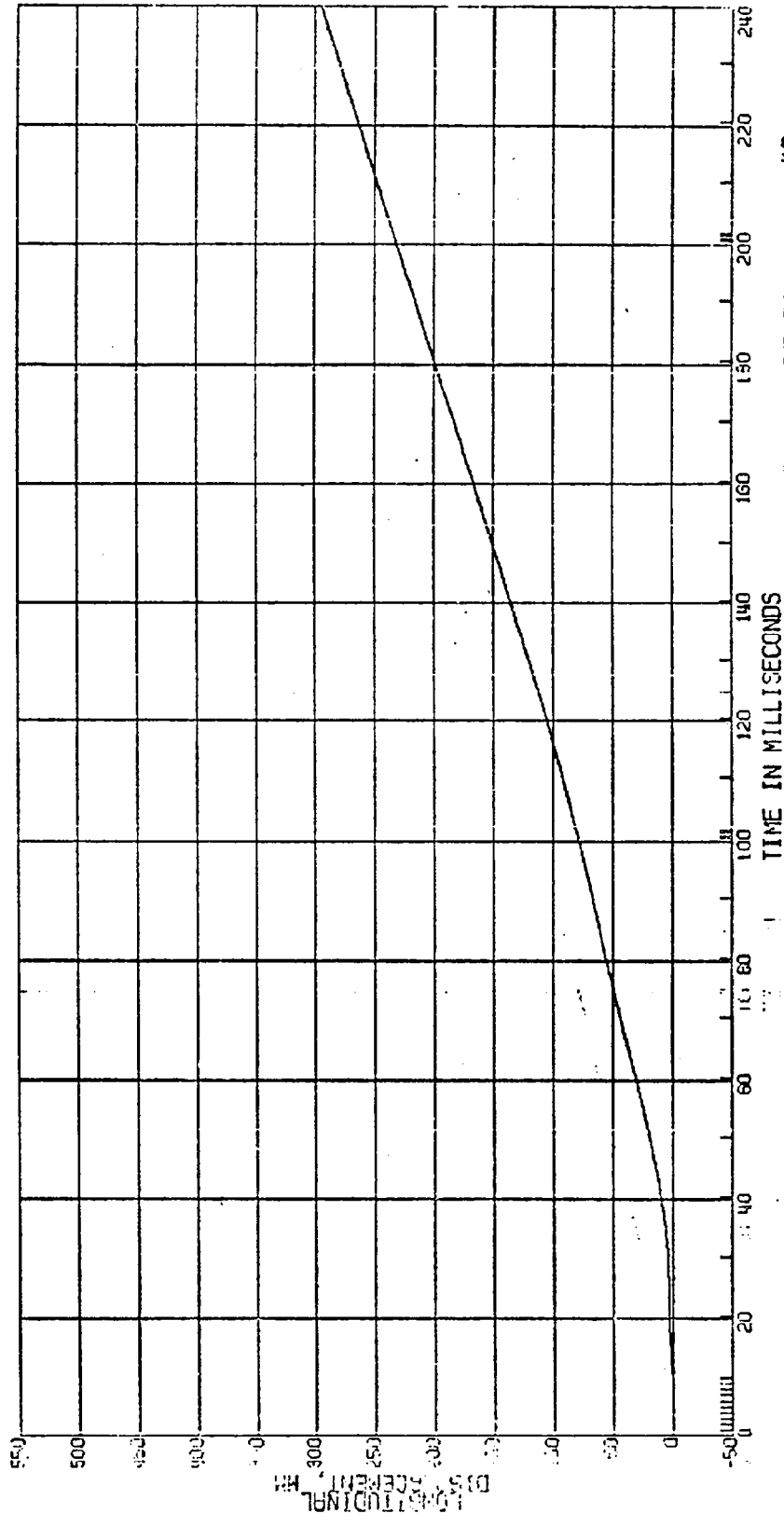
SAE CLASS 16J

(1ST INTEGRAL PASS-SIDE ACCELERATION)



RELEASED BY: 9/23
68 PROCESSED 12 AP 85 14:51

C6 CAR RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE : 41.4 KM/H FIGURE 52
 3865-090
 FISHER-OPC CC452 3JC77 (STRUCK) COMPUTED TRUNK DISPLACEMENT TEST DATE: 04-11-85
 A-D DATA SAE CLASS 180 (2ND INTEGRAL PASS-SIDE ACCELERATION)

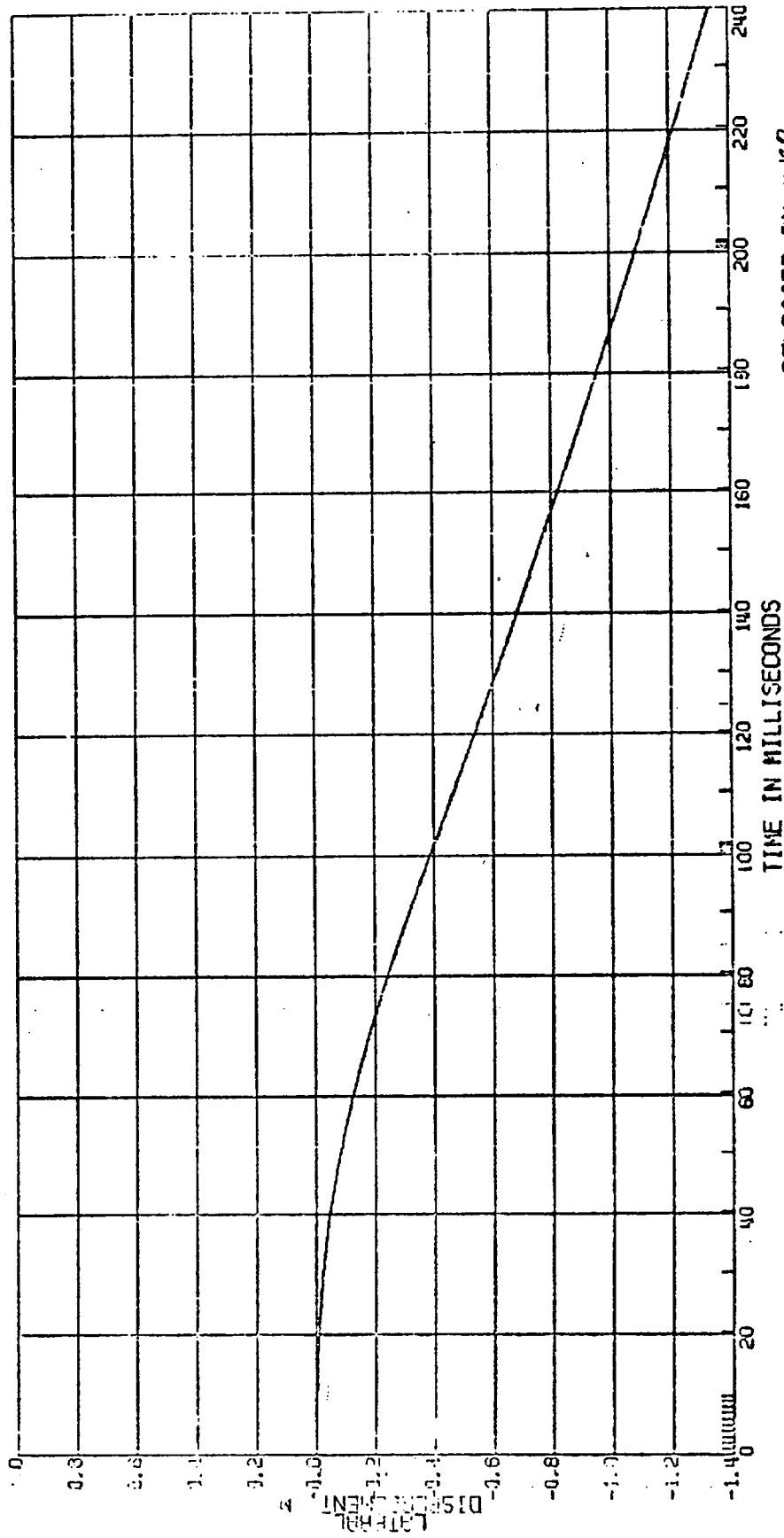


RELEASED BY: *MB*
 64 PROCESSED 12 HP 85 14:50

CG192A RIGHT SIDE IMPACT
1265-C90
FISHER-CPC C0452 3JC77 (STUCK)
DATA SAE CLASS 130

MOVING BARRIER TO PARKED VEHICLE AT 41.4 KM/H FIGURE 53
COMPUTED TRUNK DISPLACEMENT
TEST DATE: 04-11-85

(2ND INTEGRAL PASS-SIDE ACCELERATION)

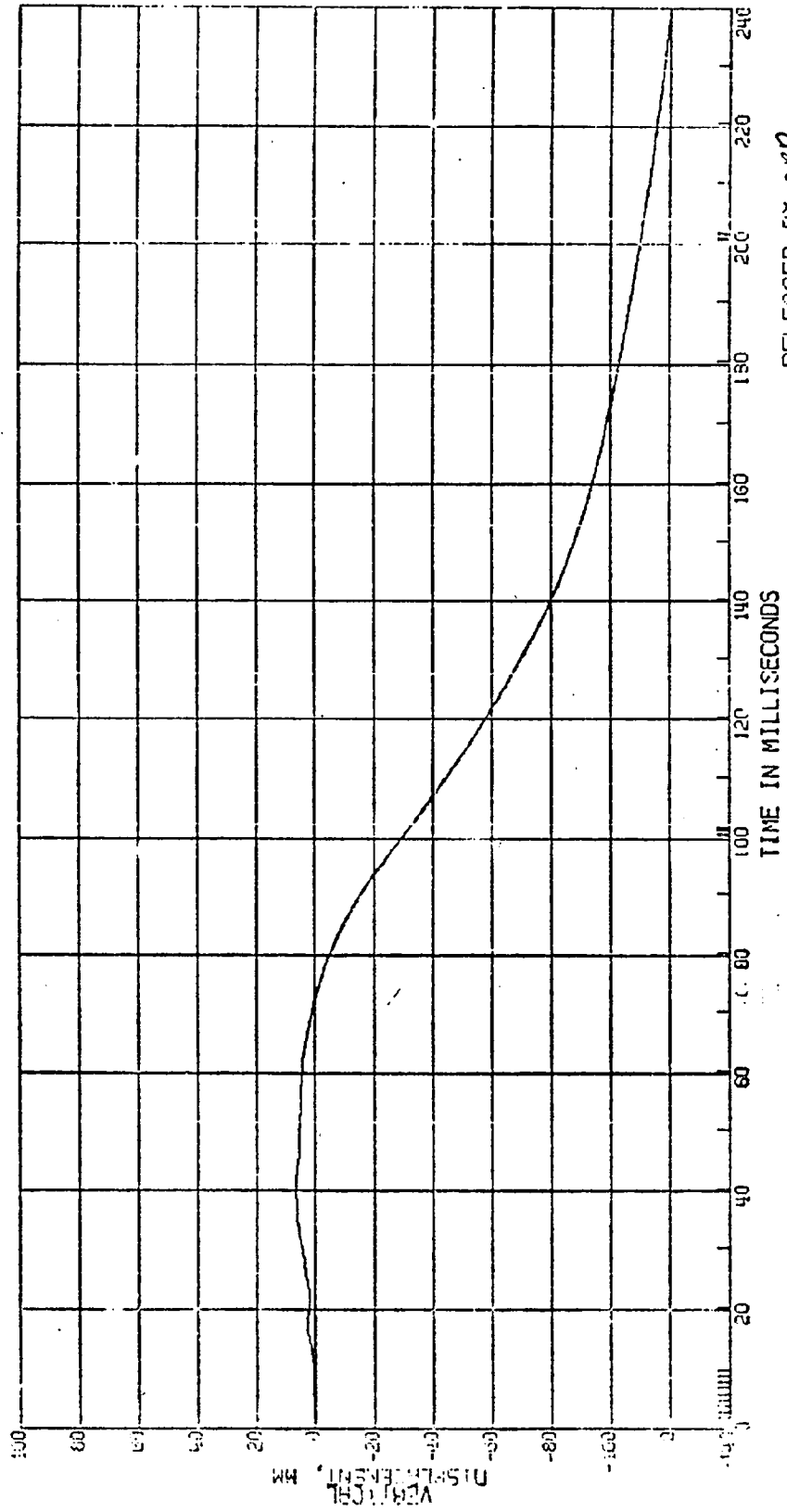


RELEASED BY: *KJB*
G7 PROCESSED 12 AP 85 14:52

MOVING DRIVER TO PARKED VEHICLE 41.4 KM/H FIGURE S4
TEST DATE: 04-11-85

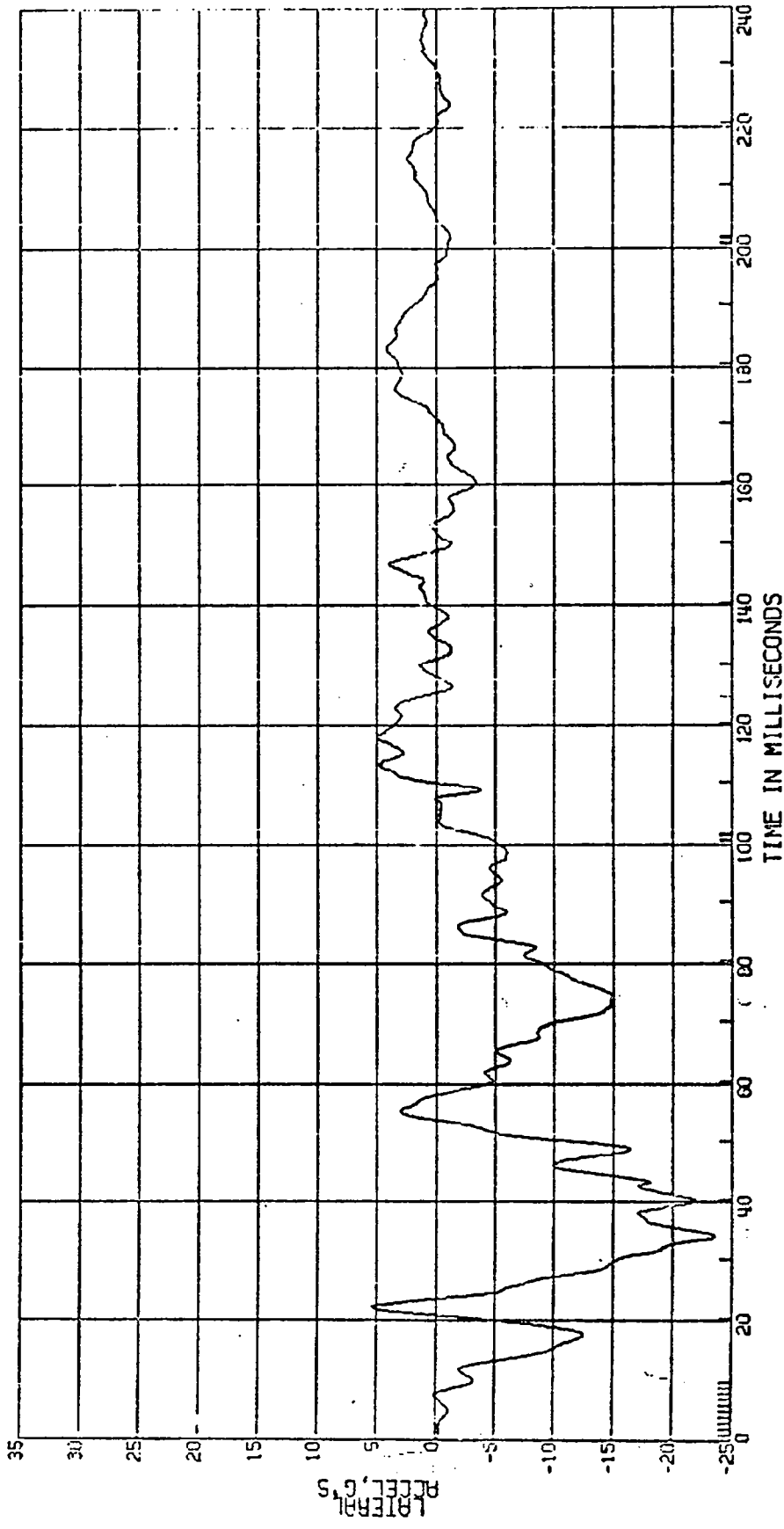
COMPUTED TRUNK DISPLACEMENT
(2ND INTEGRAL PASS-SIDE ACCELERATION)

SAE CLASS 180
3JC77 (STRUCK)



RELEASED BY: *RPB*
70 PROCESSED 12 APR 85 14155

CG192A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE @ 41.4 KM/H FIGURE 55
3865-090
FITCHER-UPC COME2 3JC77 (STRUCK)
R-D DATA SAE CLASS 60 : LT FRT DOOR (A') ACCEL. TEST DATE: 04-11-85

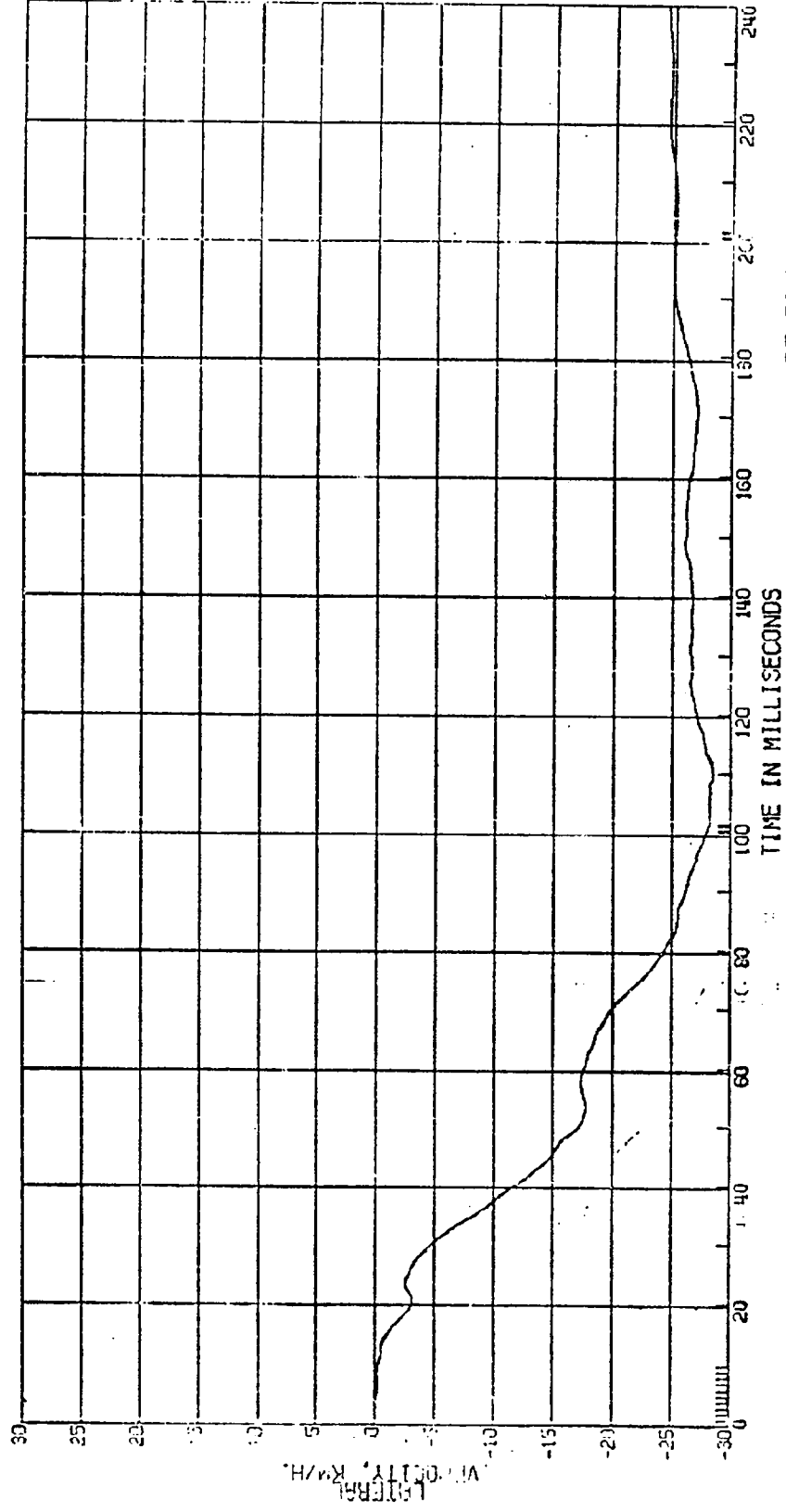


RELEASED BY: JFB
47 PROCESSED 12 APR 85 14:2

01928 RIGHT SIDE IMPACT
3035-190
FISHP-CPC CC452 3JC77 (STRUCK)
R-D DATA SAE CLASS 180

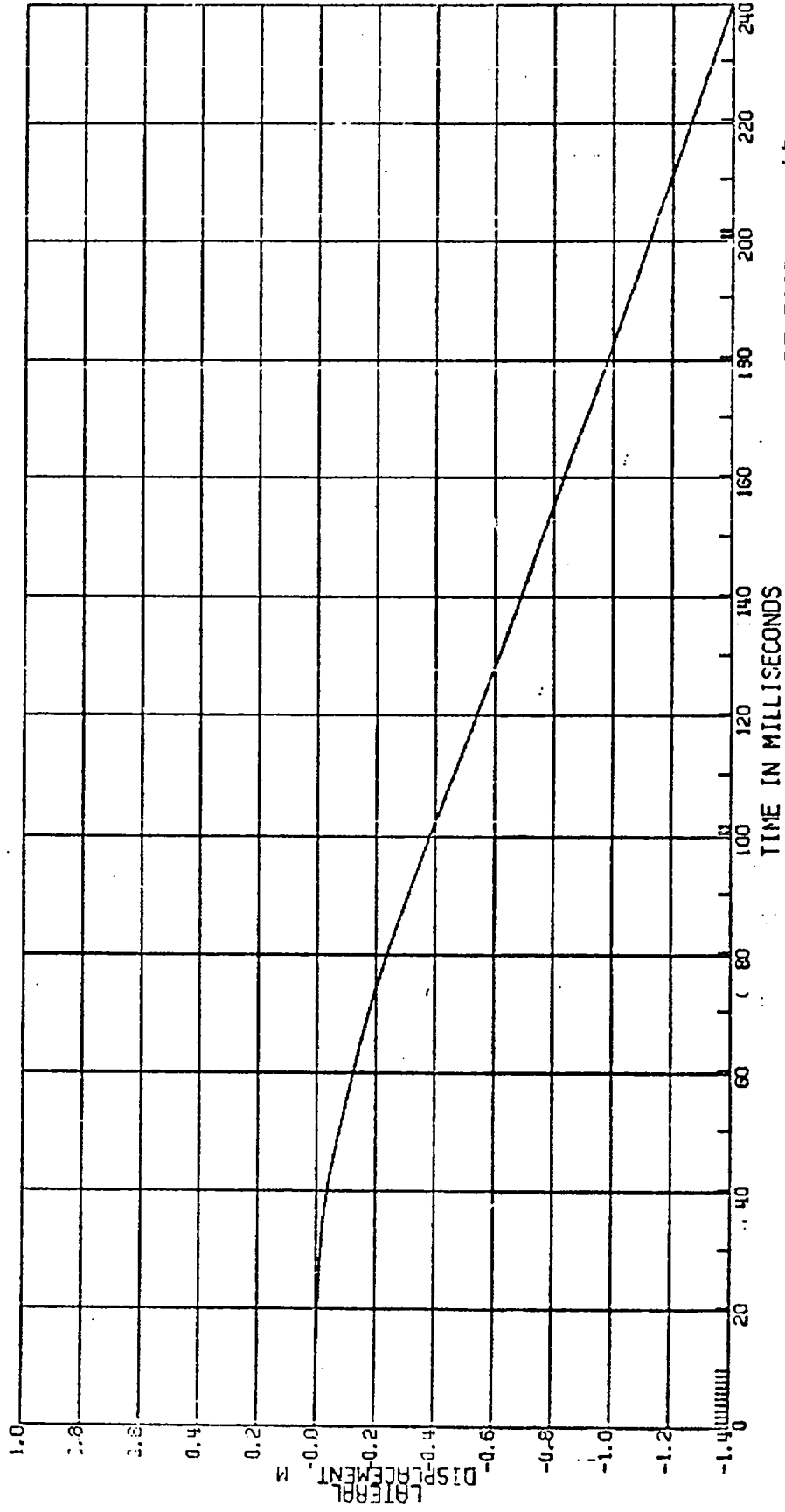
MOVING BARRIER TO PARKED VEHICLE 41.4KM/H FIGURE 56
COMPUTED LT FRT DOOR (A') VELOCITY
(1ST INTEGRAL ACCELERATION)

TEST DATE: 04-11-85



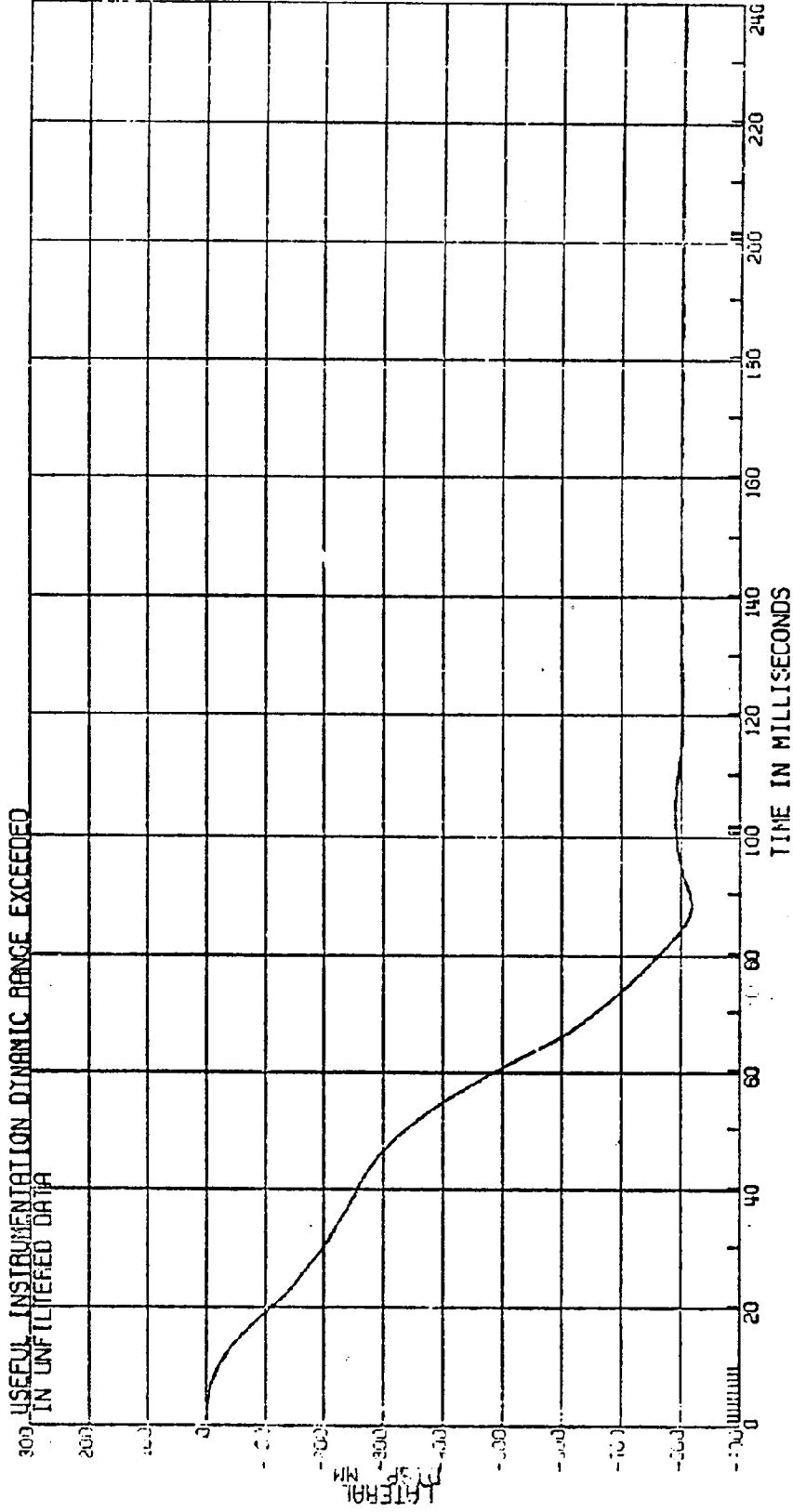
RELEASED BY: *gms*
48 PROCESSED 12 APR 85 14:33

661926 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE @ 41.4 KM/H FIGURE S7
 2233-C90
 FILED IN PC CC452 3JC77 (STUCK)
 4- DATA SAE CLASS 180
 TEST DATE: 04-11-85
 (2ND INTEGRAL ACCELERATION)



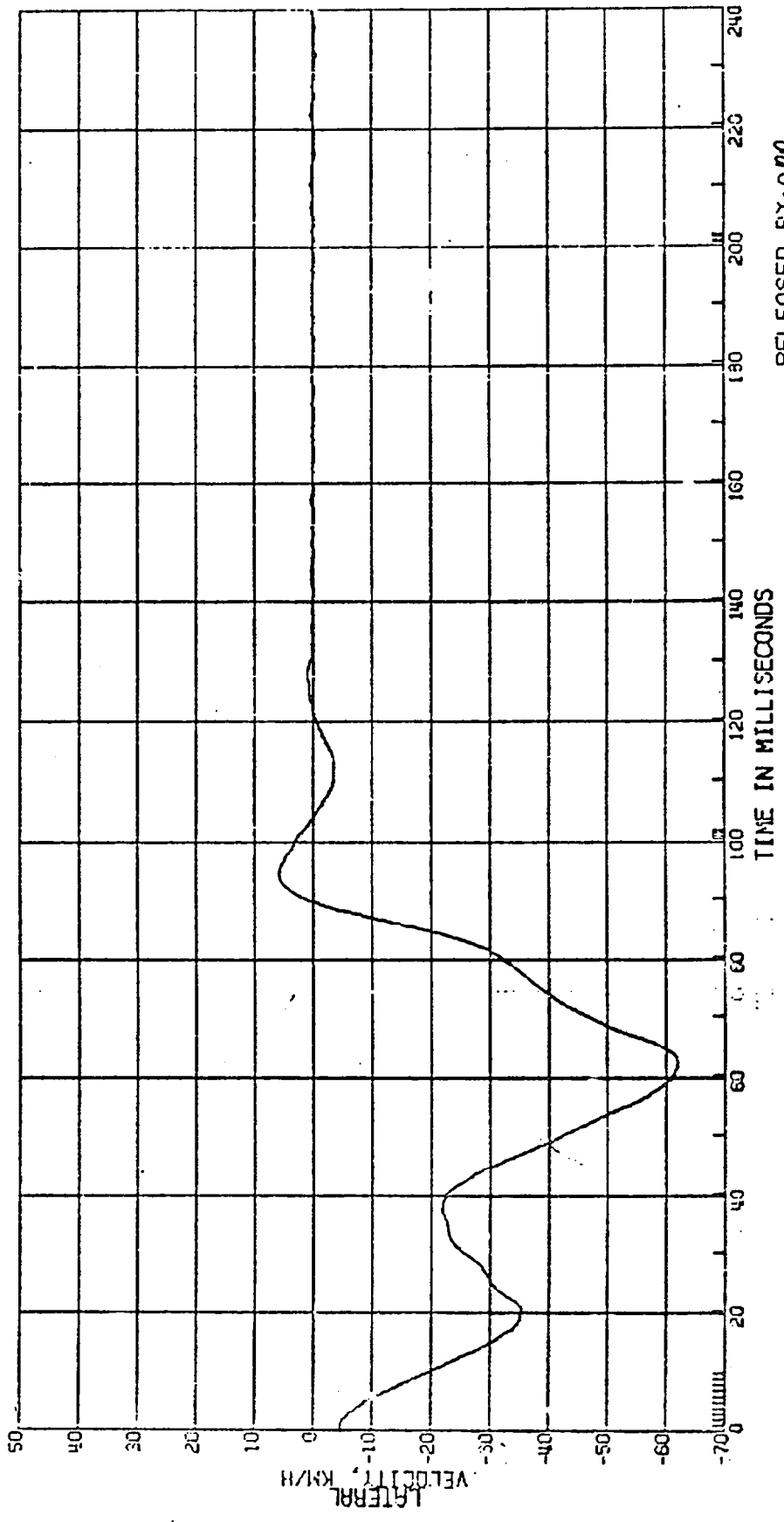
RELEASED BY: *gkb*
 49 PROCESSED 12 APR 85 14:35

MOVING DOWN IN PARKED VEHICLE : 41.4KM/H FIGURE 58
 PASS-SIDE B-PILLAR & BELTLINE DISP. TEST DATE: 04-11-85
 3007-C90
 3007-CPC C0452 3JC77 (STRUCK)
 6-2 DATA SAE CLASS 60



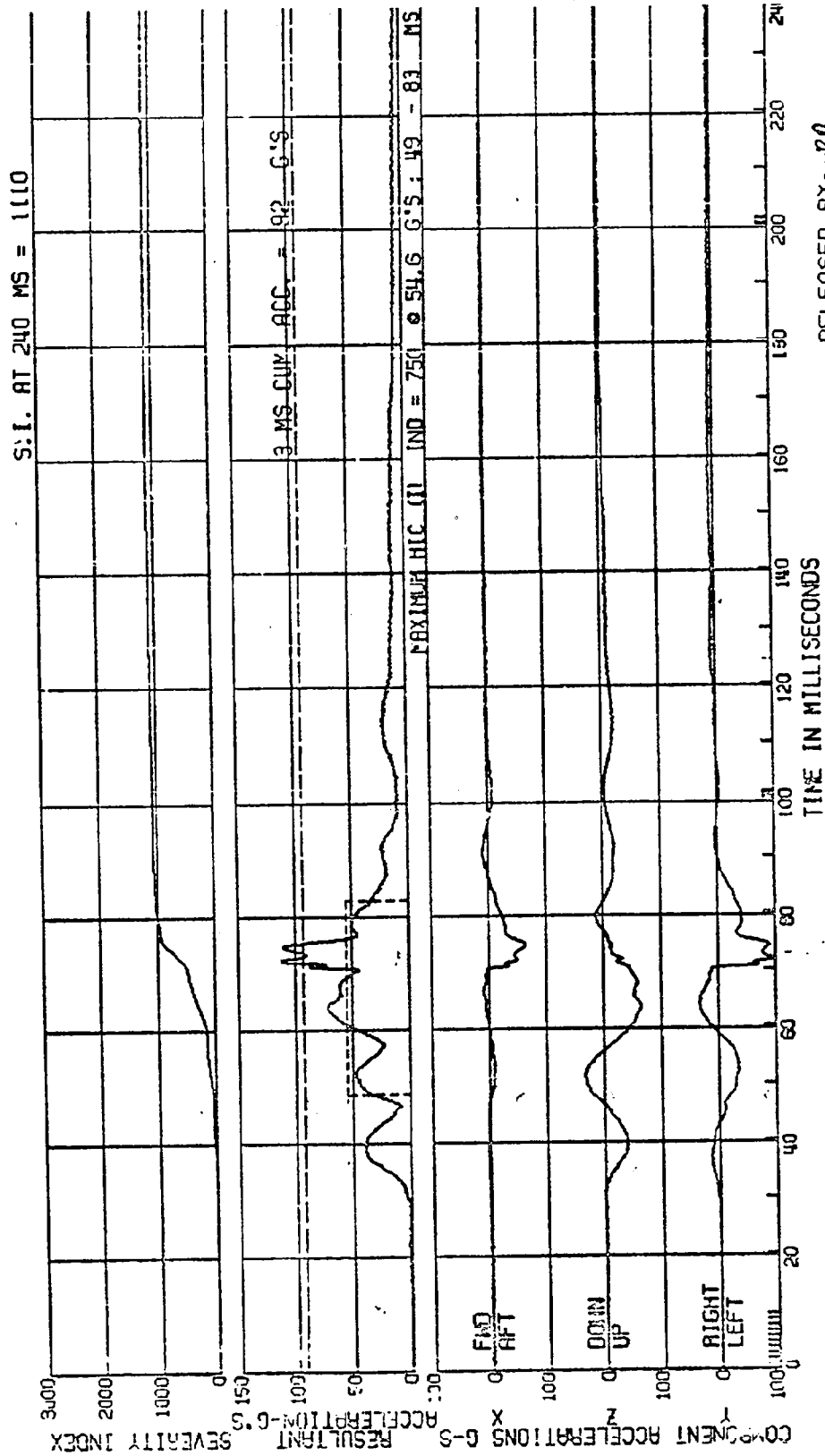
RELEASED BY: *SPB*
 71 PROCESSED 12 APR 85 14:56

CC19LF RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE | 41.4 KM/H FIGURE S9
3805-C90
FISH-P-CPC CC452 3JC771STRUCK1 COMPUTED B-PILLAR @ BELTLINE VELOCITY TEST DATE: 04-11-85
A-0 DATA SAE CLFSS 15 (1ST DIFFERENTIATION OF DISPLACEMENT)



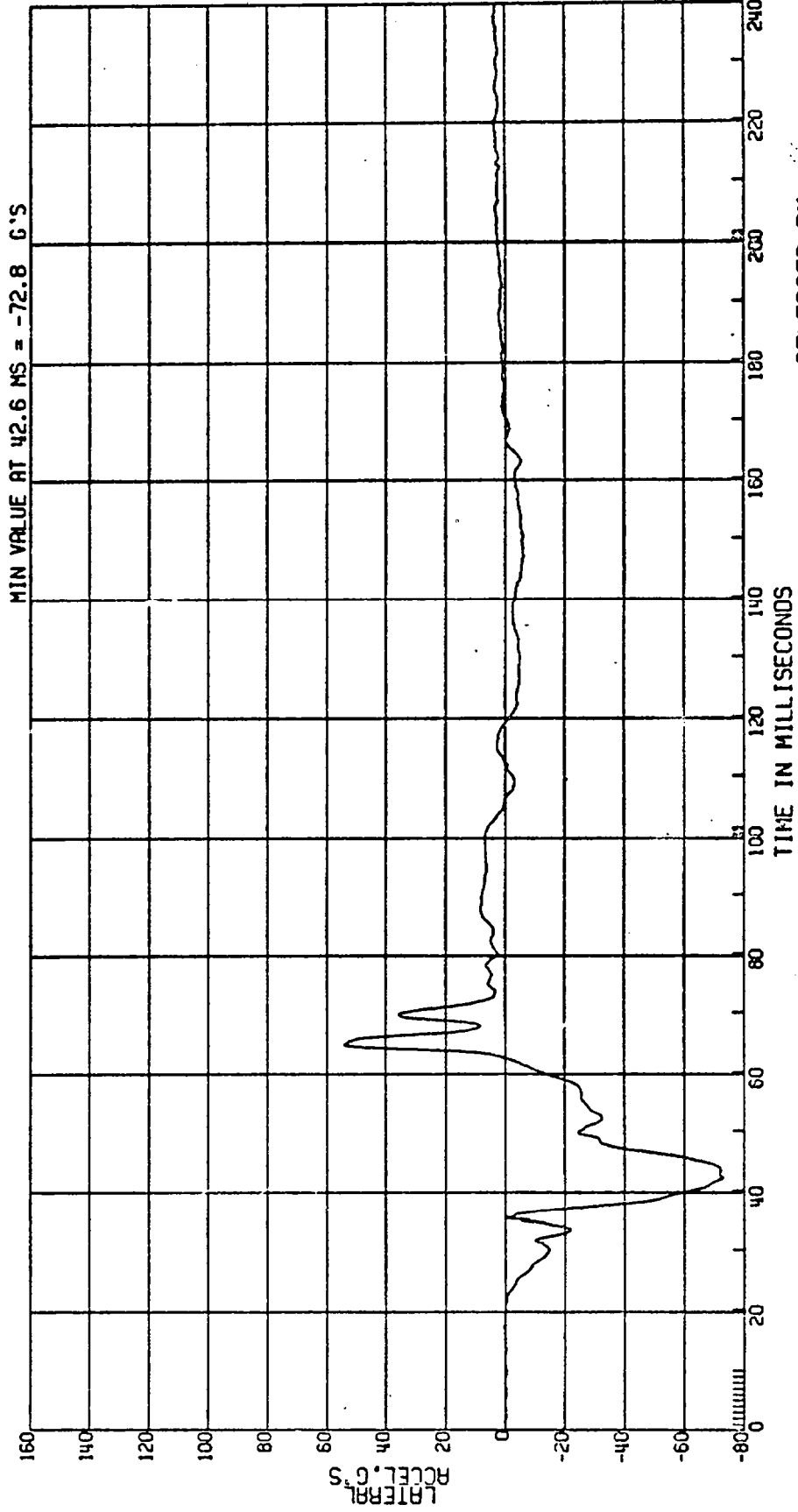
RELEASED BY: *gpb*
72 PROCESSED 12 APR 85 14:56

CC 02A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.4KM/H FIGURE 60
 366--090 R FRT HEAD ACCEL. HSRISI TEST DATE:04-11-81
 SHER-CPC CC452 3JC77 (STRUCK)
 R-D DATA



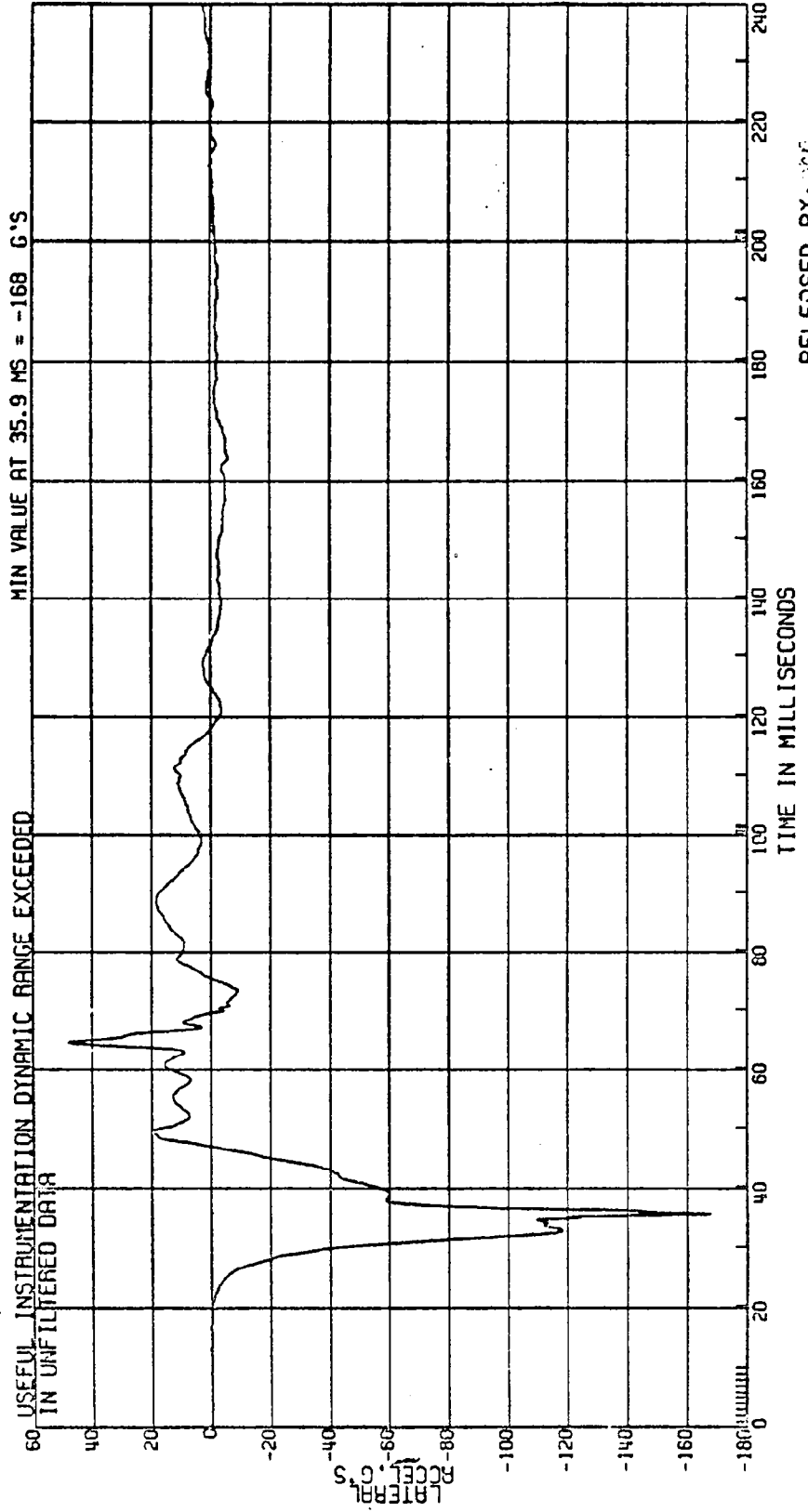
RELEASED BY: 9203
 3 PROCESSED 12 APR 85 13.10

C6192A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.4 KM/H FIGURE 6/1
 3865-090 R FRT UPPER SPINE ACCEL. HSRISI TEST DATE: 04-11-85
 FISHER-CPC CC452 3JC77 (STRUCK)
 A-D DATA SAE CLASS 180



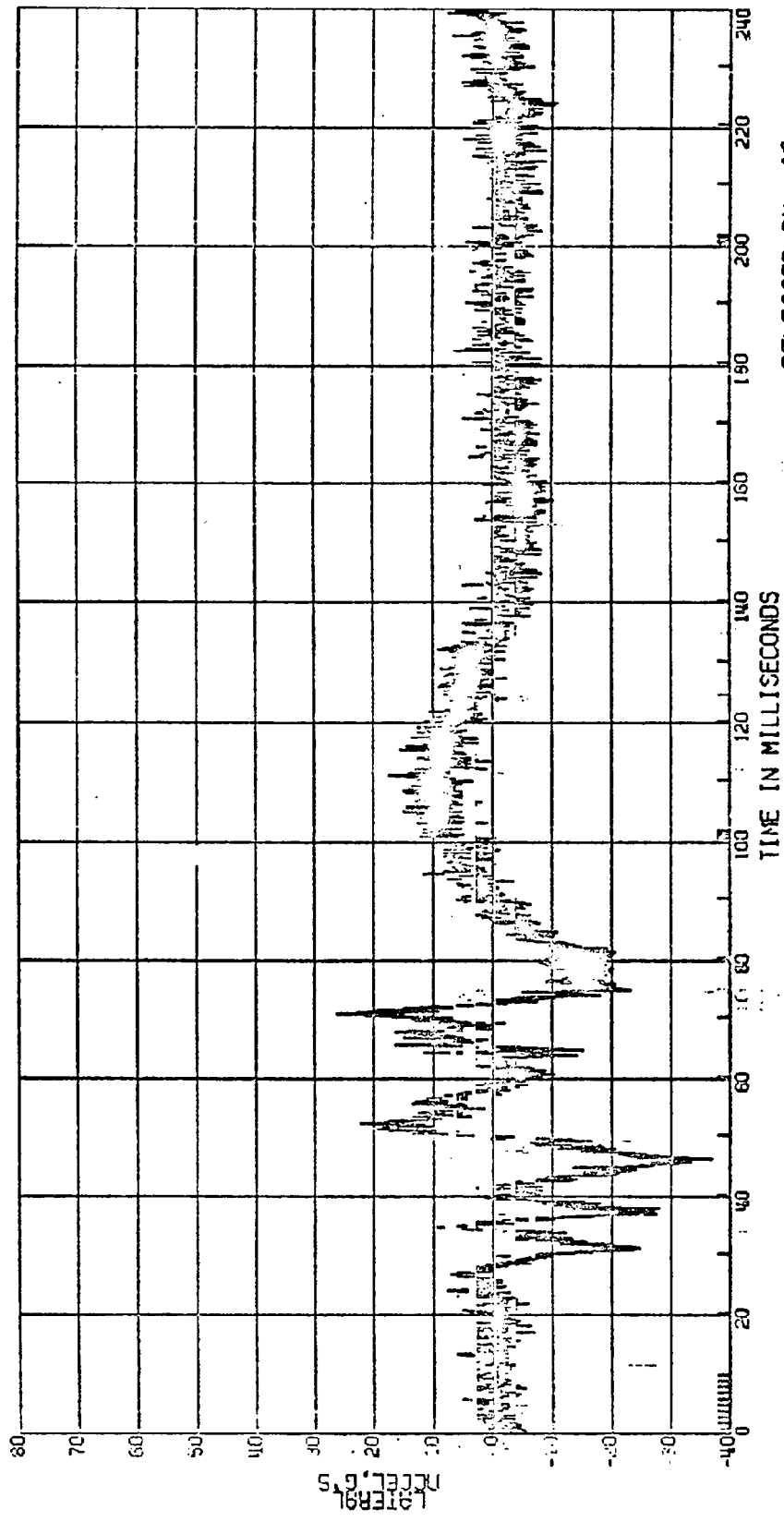
RELEASED BY: 75
 2 PROCESSED 26 RP 85 14:35

CG192A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.4KM/H FIGURE C-2
3865-090 R FRT LOWER SPINE ACCEL. HSRISI TEST DATE:04-11-85
FISHER-CPC CC452 3JC77 (STRUCK)
A-D DATA SAE CLASS 180



RELEASED BY: JFC
4 PROCESSED 26 APR 85 14:36

C6192A RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE @ 41.4KM/H FIGURE 64
3865-C90 R FRT RIGHT UPPER RIB ACCEL. GM50SI TEST DATE:04-11-85
FISHER-CPC CC452 3JC77 (STUCK)
A-D DATA



RELEASED BY: *GRB*
8 PROCESSED: 2 85 13:41

WISLER RIGHT SIDE IMPACT
3025-C9C

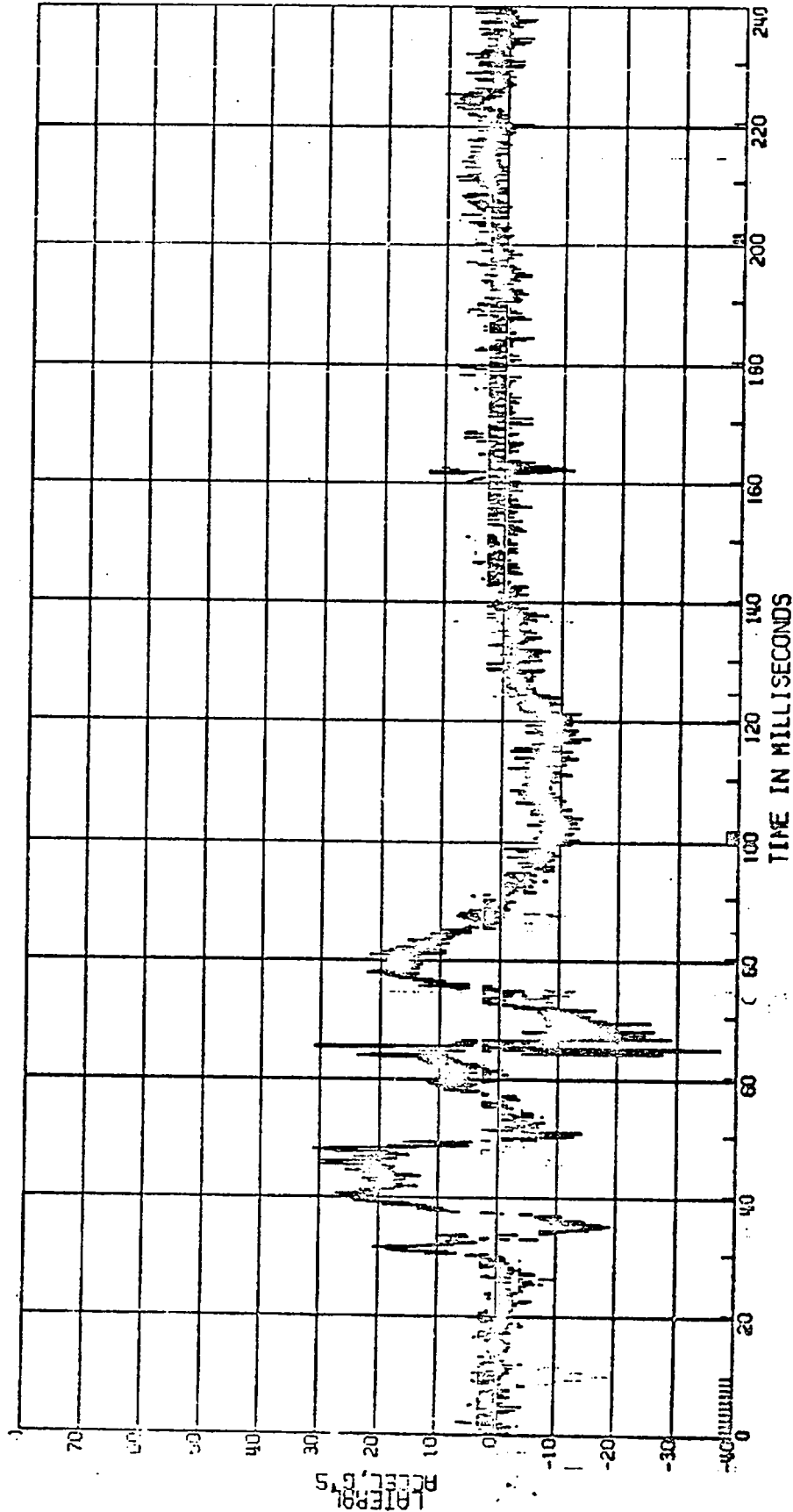
FISHER-OPC CC452 3JC77 (STRUCK)
A-B DATA

MOVING BARRIER TO PARKED VEHICLE

41.4 KM/H FIGURE 65

R. FAT RIGHT LOWER RIB ACCEL. GM50SI

TEST DATE: 04-11-85

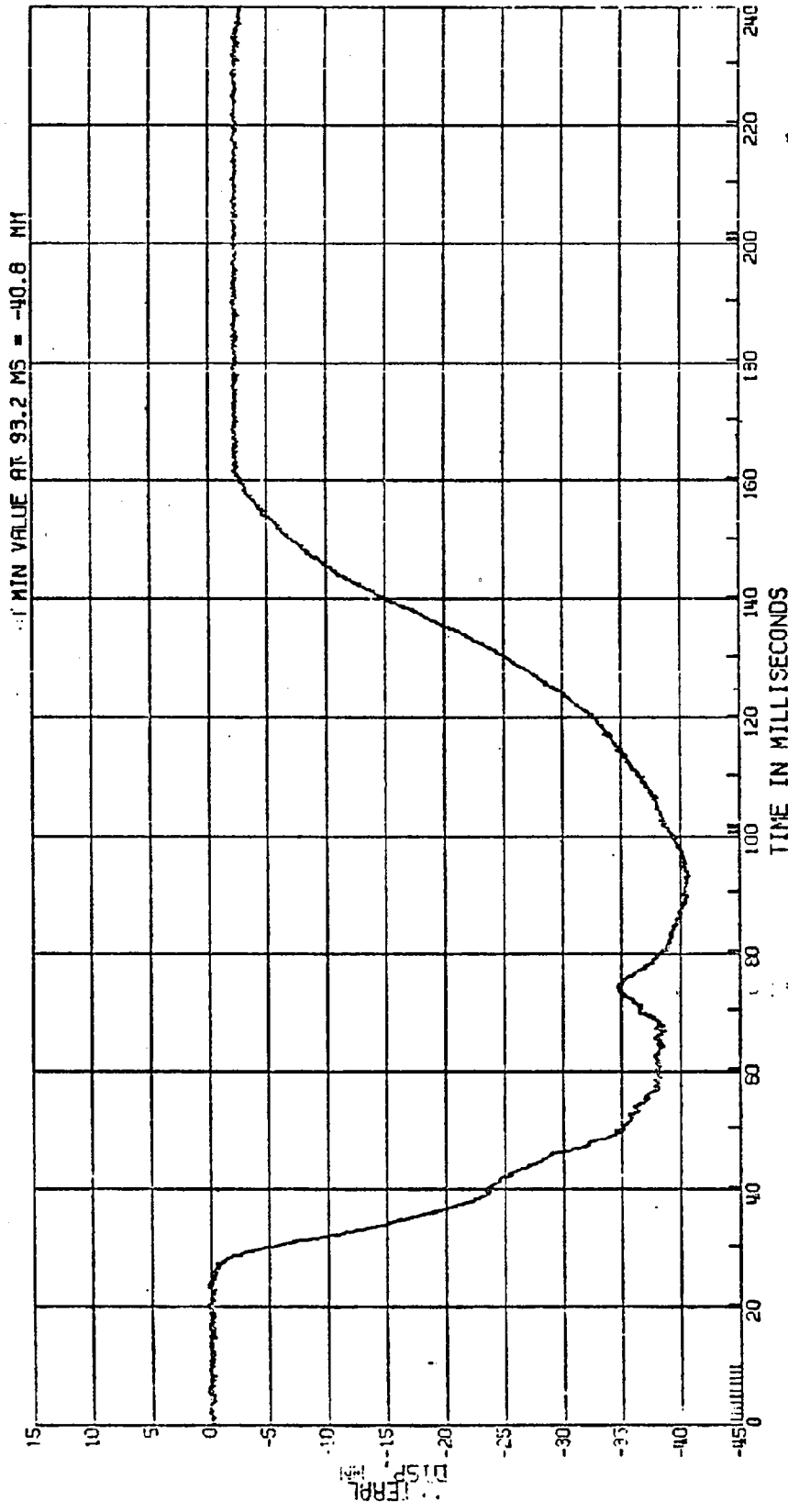


RELEASED BY: 9/13

9 PROCESSED 2 APR 85 13:41

CG192R RIGHT SIDE IMPACT
 3865-C90
 FISH_P-CPC CC452 3JC77 (STUCK)
 A-D DATA

MOVING BARRIER TO PARKED VEHICLE : 41.4KM/H FIGURE 64
 8 FRT) RIGHT UPPER RIB DISP. GM50S1
 TEST DATE: 04-11-85



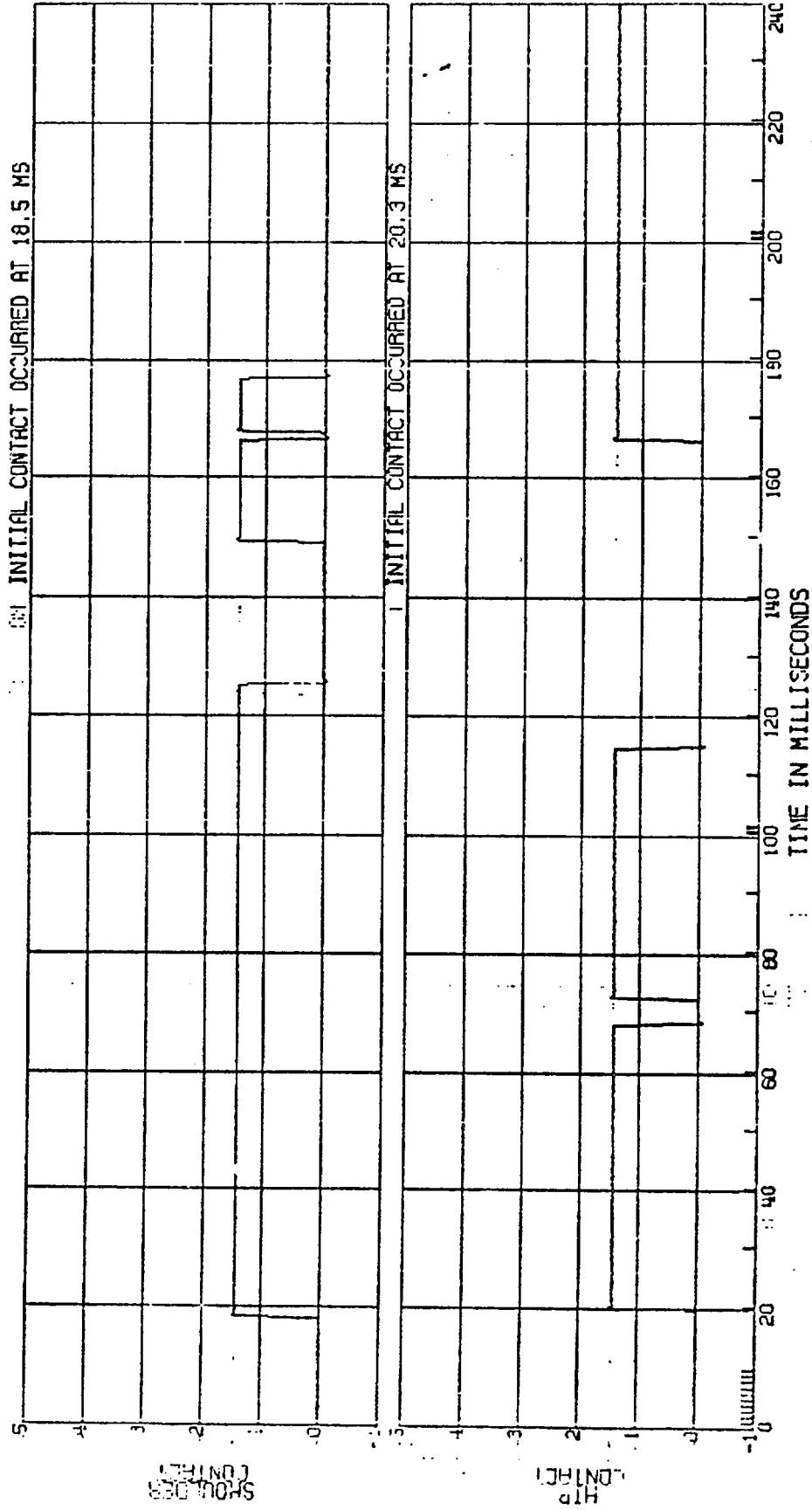
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 10 PROCESSED 12 APR 85 1314Z

00102P RIGHT SIDE IMPACT
3467-090
F55REF-OPC CC452 3JC77 (STUCK)
A-C DATA

MOVING BARRIER TO PARKED VEHICLE @ 41.4 KM/H FIGURE 67

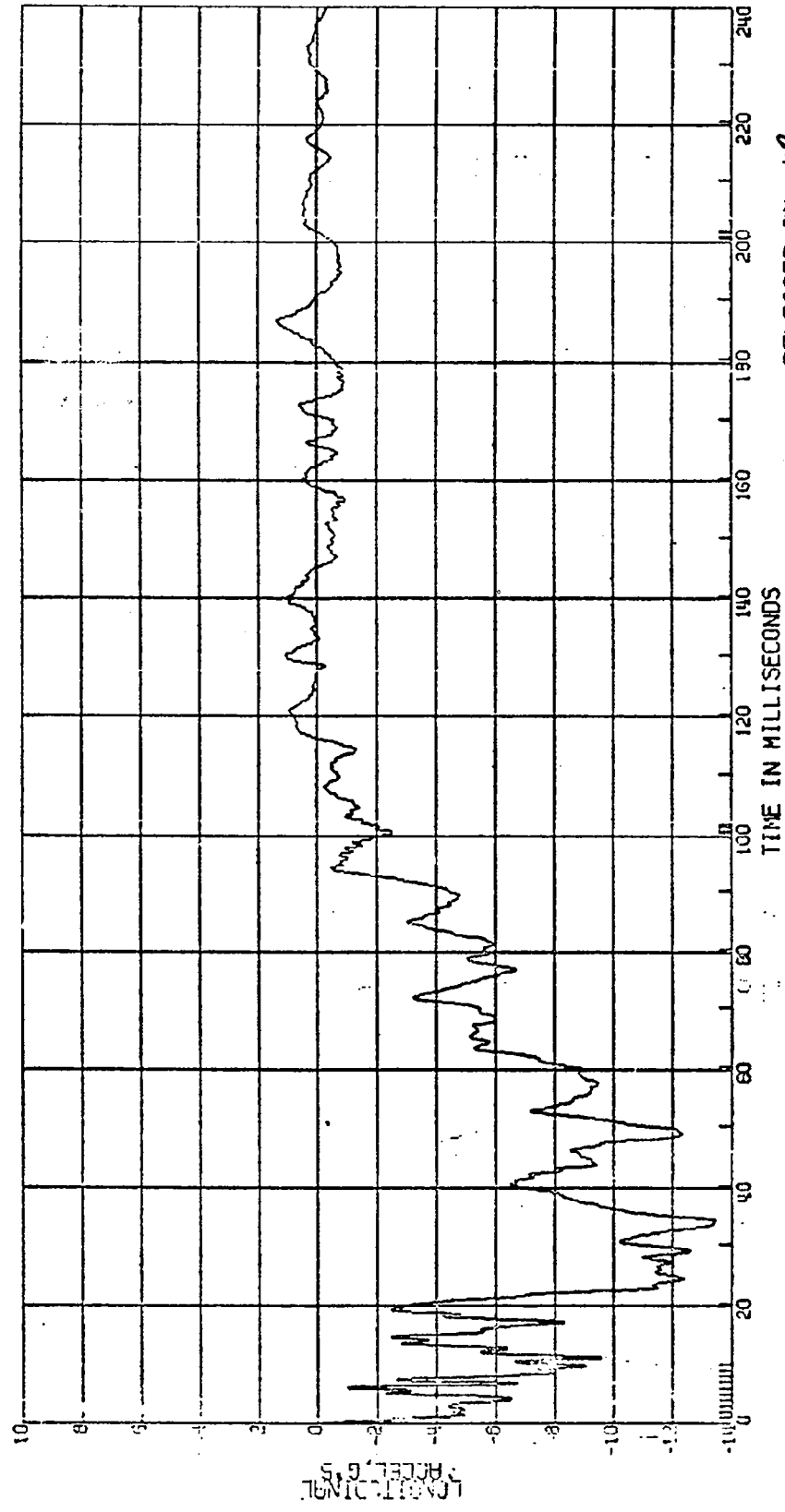
LATERAL RT FRT DOOR CONTACT

TEST DATE: 04-11-85



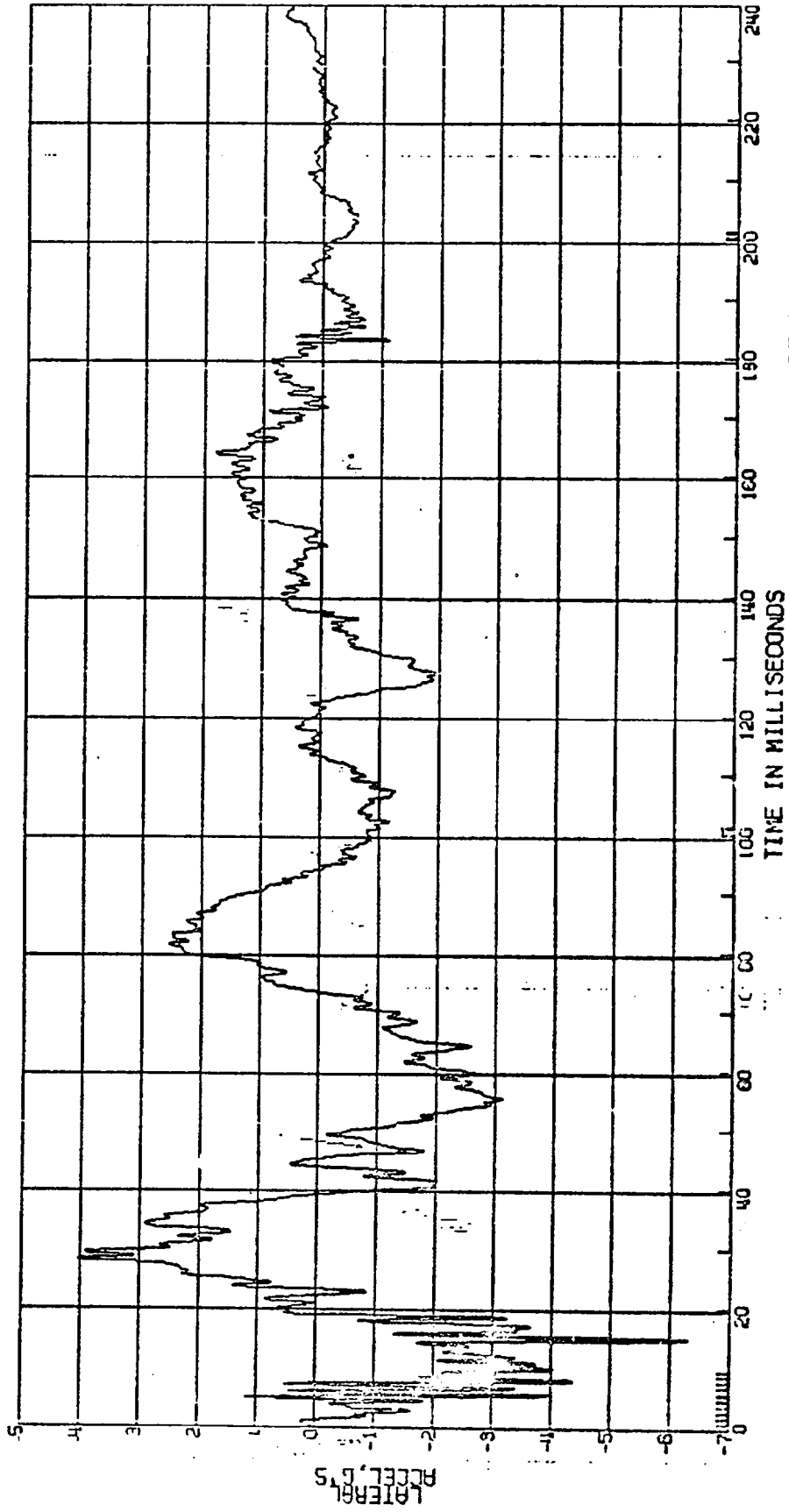
RELEASED BY: JFB
76 PROCESSED 12 APR 85 14:50

192B RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.4 KM/H FIGURE 68
 3905 -C9C
 FISHER-CPO(STRIKER NHTSA BARR) DR-SIDE STRIKING BARR. FRONT ACCEL.
 A-D DATA SAE CLASS 60 TEST DATE: 04-11-85



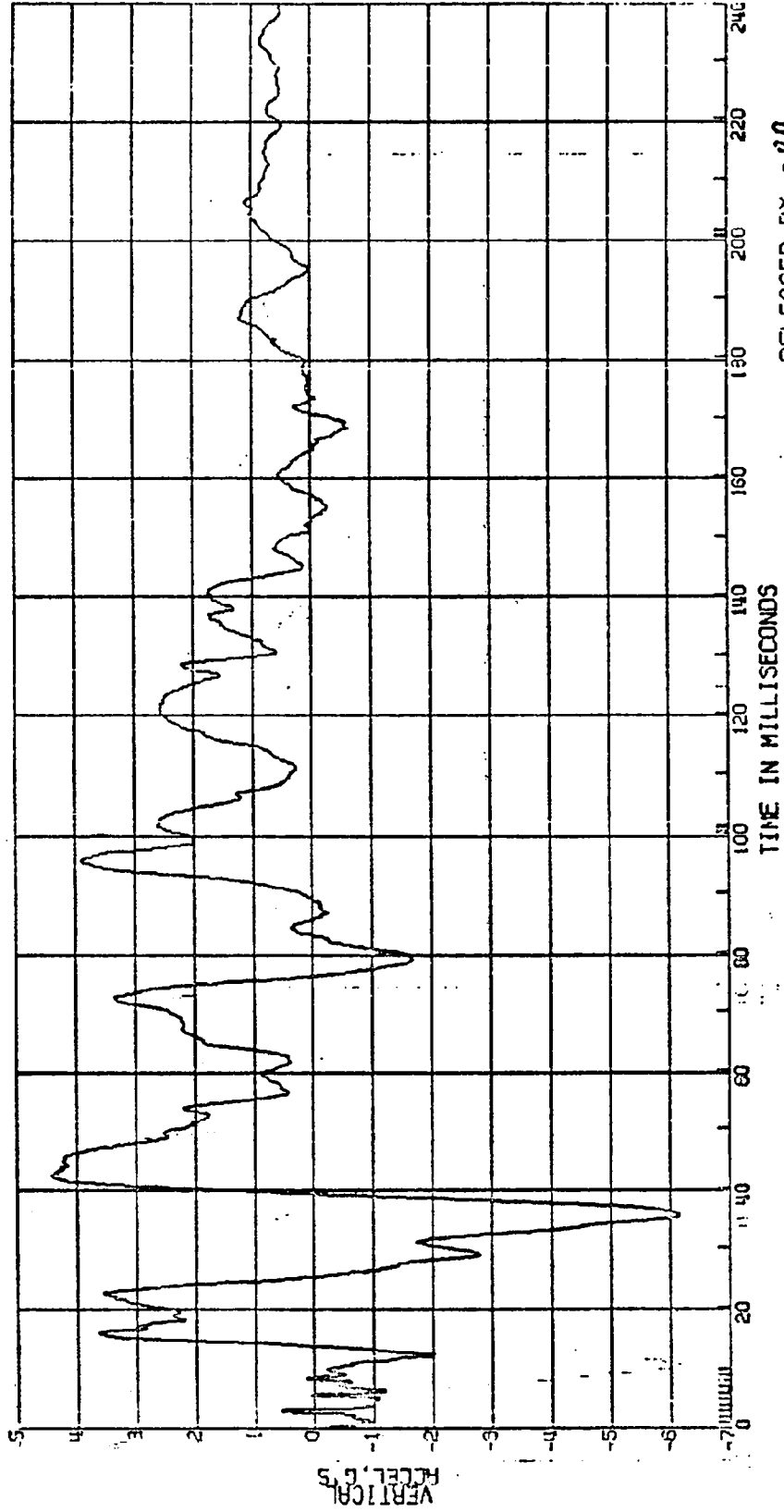
RELEASED BY: JRS
 1 PROCESSED 2 APR 16 1985

CG1028 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE @ 41.4 KM/H FIGURE 69
3865-C90
STOPPER-SPC (STRIKER NATSA BARR) DR-SIDE STRIKING BARR: FRONT ACCEL.
A-D DATA SAE CLFSS 60 TEST DATE: 04-11-85



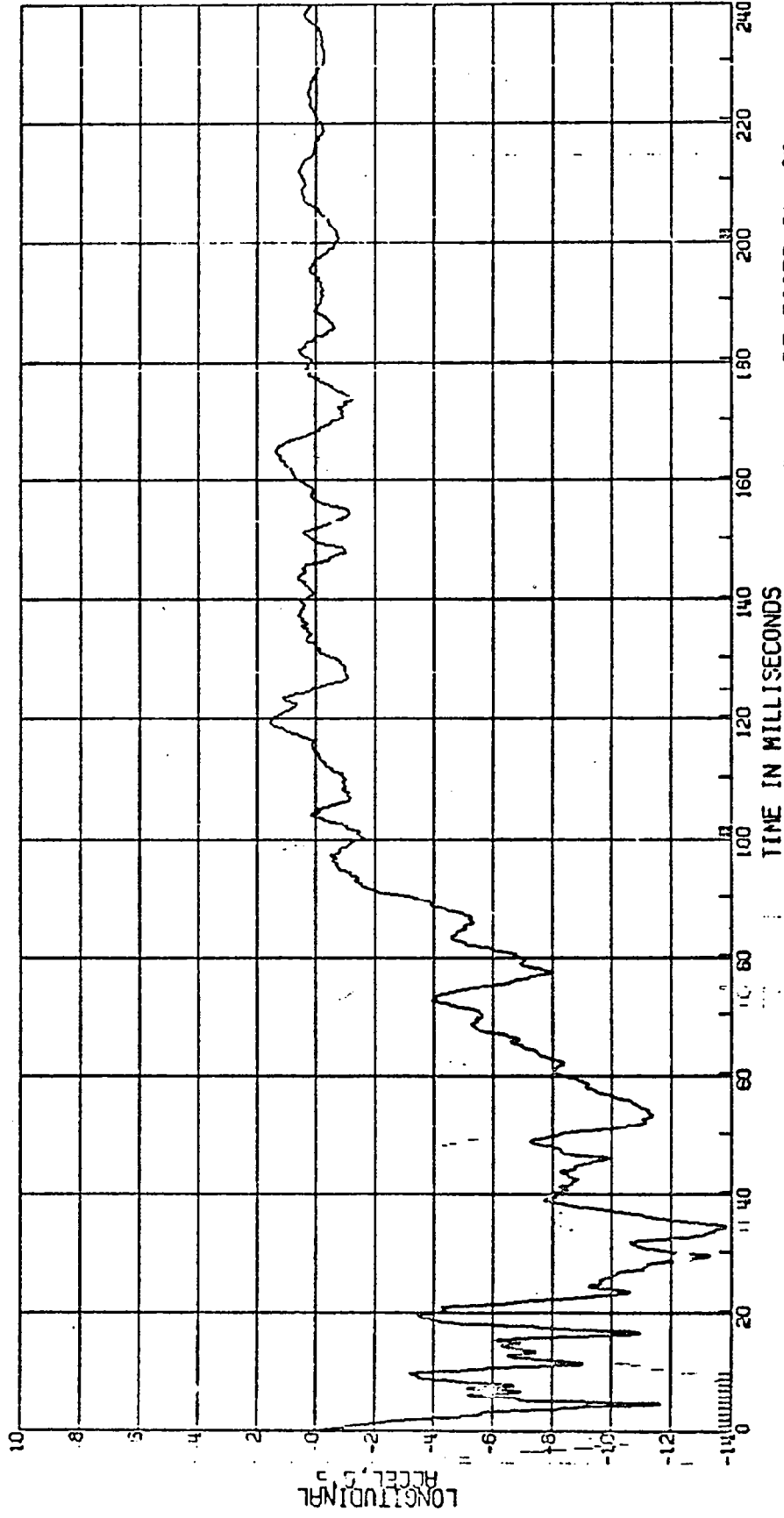
RELEASED BY: KJB
4 PROCESSED 12 APR 85 16:57

C6132E RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE @ 41.4 KM/H FIGURE 70
3865-C90 DR-SIDE STRIKING BARR. FRONT ACCEL. TEST DATE: 04-11-85
FISHER-CPC (STRIKER NHTSA BARR.)
A-D DATA SAE CLASS 60



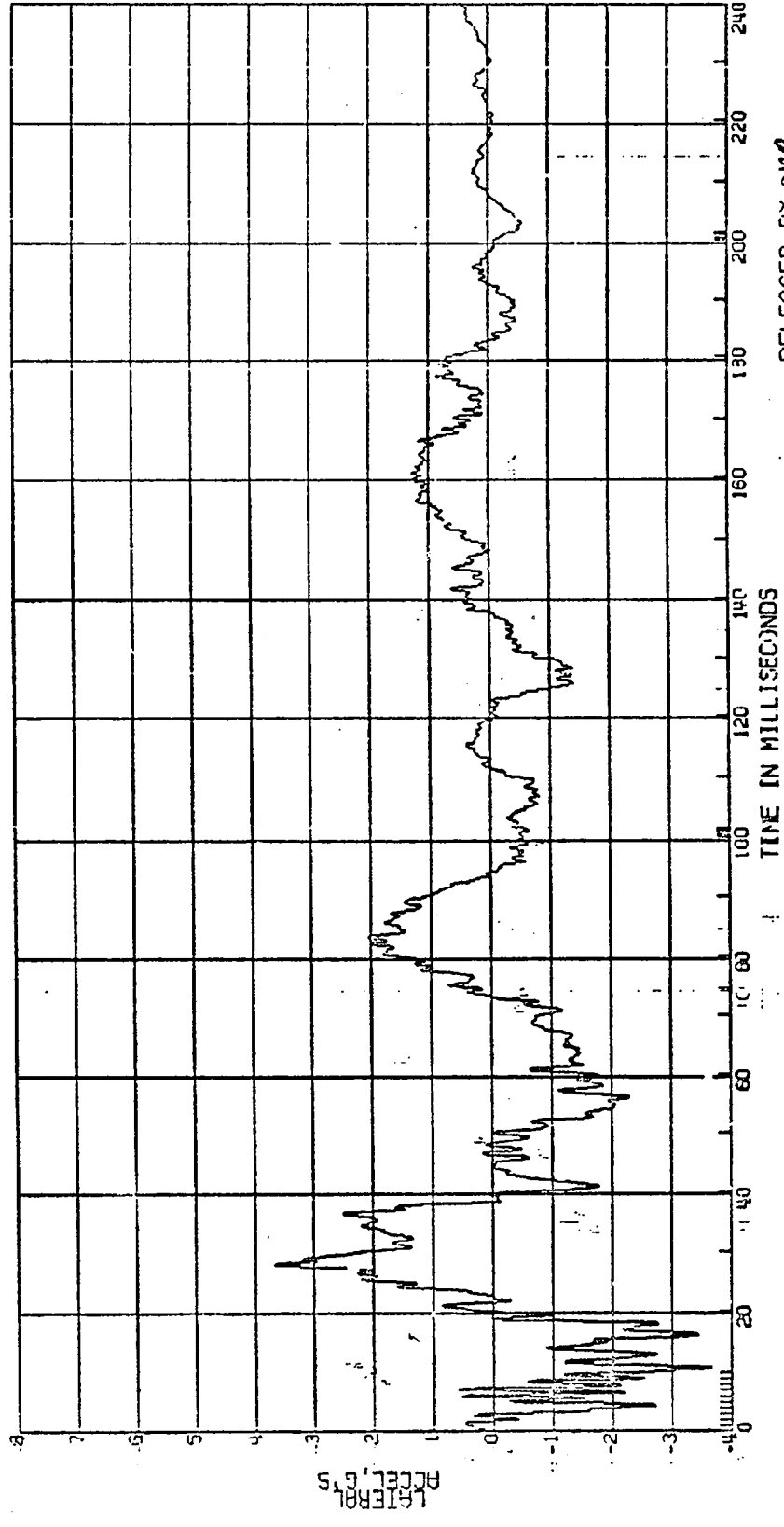
RELEASED BY: JRB
7 PROCESSED 2 APR 85 16:58

SCENE RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.4 KM/H FIGURE 7
E01-090
F. JEP-DPC (STRIKER NHTSA BARR) PASS-SIDE STRIKING BARR. FRONT ACCEL.
A-D DATA SAE CLASS 60 TEST DATE: 04-11-05



RELEASED BY: [Signature]
10 PROCESSED 12/01/05 16:51

061928 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE @ 41.4 KM/H FIGURE 72
3805-090
FISHER-CPC (STRIKER NHTSA BARR) PASS-SIDE STRIKING BARR. FRONT ACCEL. TEST DATE: 04-11-85
A-D DATA SAE CLASS 60



RELEASED BY: *[Signature]*
13 PROCESSED 12 APR 85 1615H

VERTICAL IMPACT

MUOVING BARRIER TO PARKED VEHICLE @ 41.4 KM/H FIGURE 73

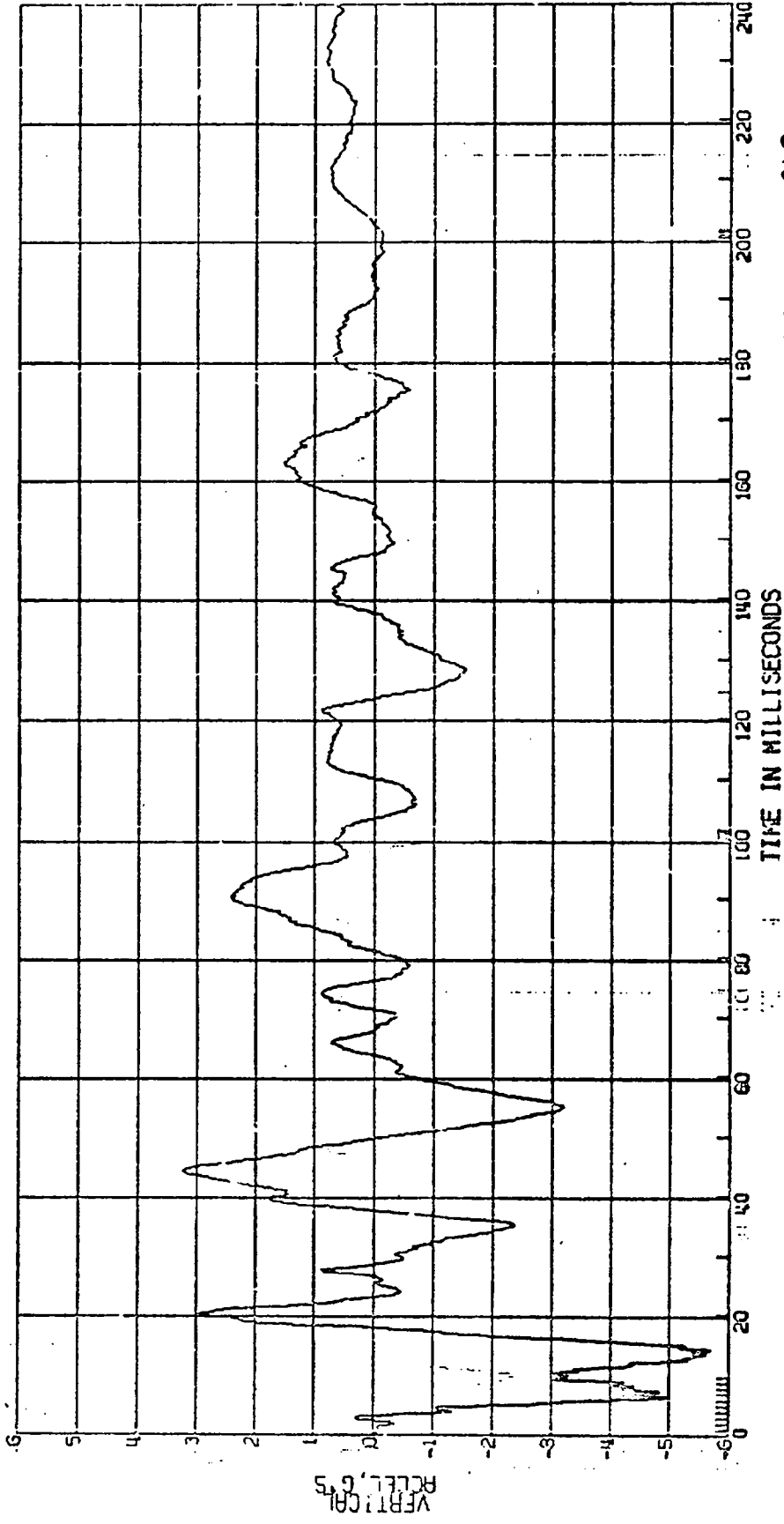
307-1-190

SLIP-OPC (STRIKER NHTSA BARR)

PASS-SIDE STRIKING BARR. FRONT ACCEL.

TEST DATE: 04-11-85

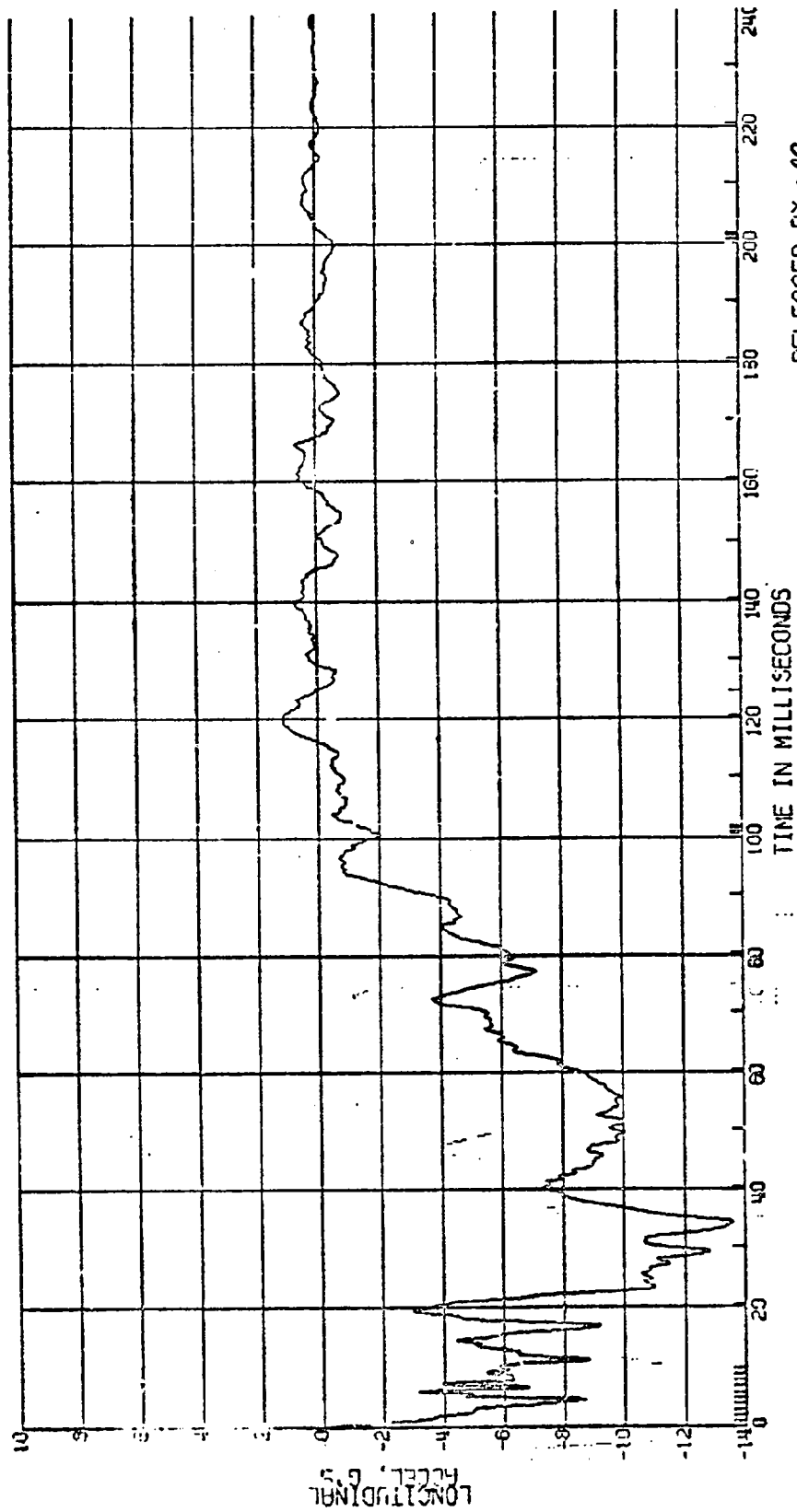
DATA SAE CLASS 60



RELEASED BY: 8213

16 PROCESSED 12 APR 85 17:00

C61328 RIGHT SIDE IMPACT MOVING: BARRIER TO PARKED VEHICLE @ 41.4 KM/H FIGURE 74
 3865-C90 AVERAGED: DRIVER & PASSENGER SIDES TEST DATE: 04-11-88
 FISHER-CPC/STRIKER NHTSA (BARR) AVERAGED: STRIKING BARR-FRONT ACCEL



RELEASED BY: JMB
 13 PROCESSED 12 APR 88 17:10:

C6192B RIGHT SIDE IMPACT

3805-C90

FORSHER-CPC (STRIKER NHTSA BARR)

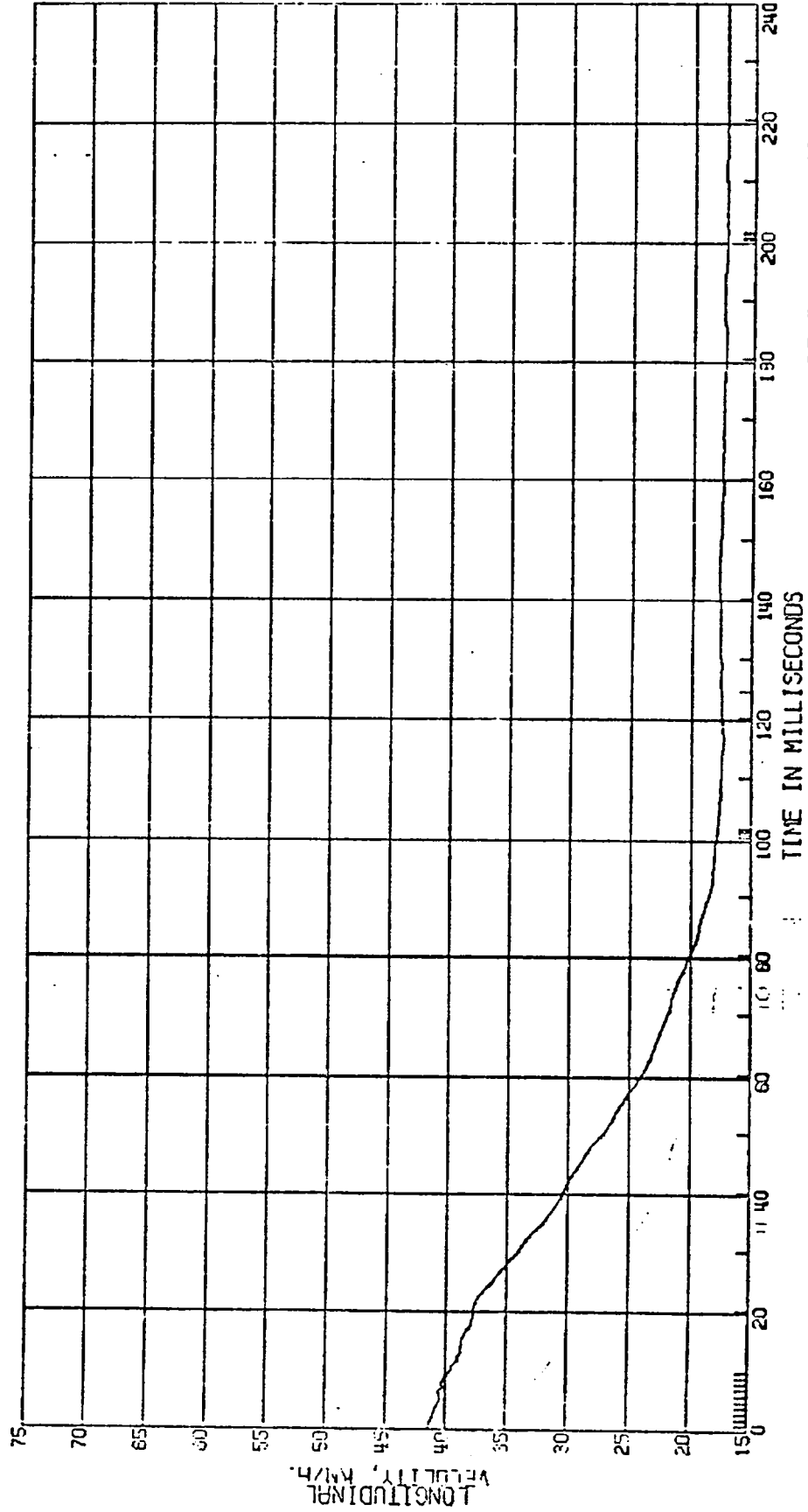
R-O DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE @ 41.4 KM/H FIGURE 7S

COMPUTED STRIKING BARR-FRT VELOCITY

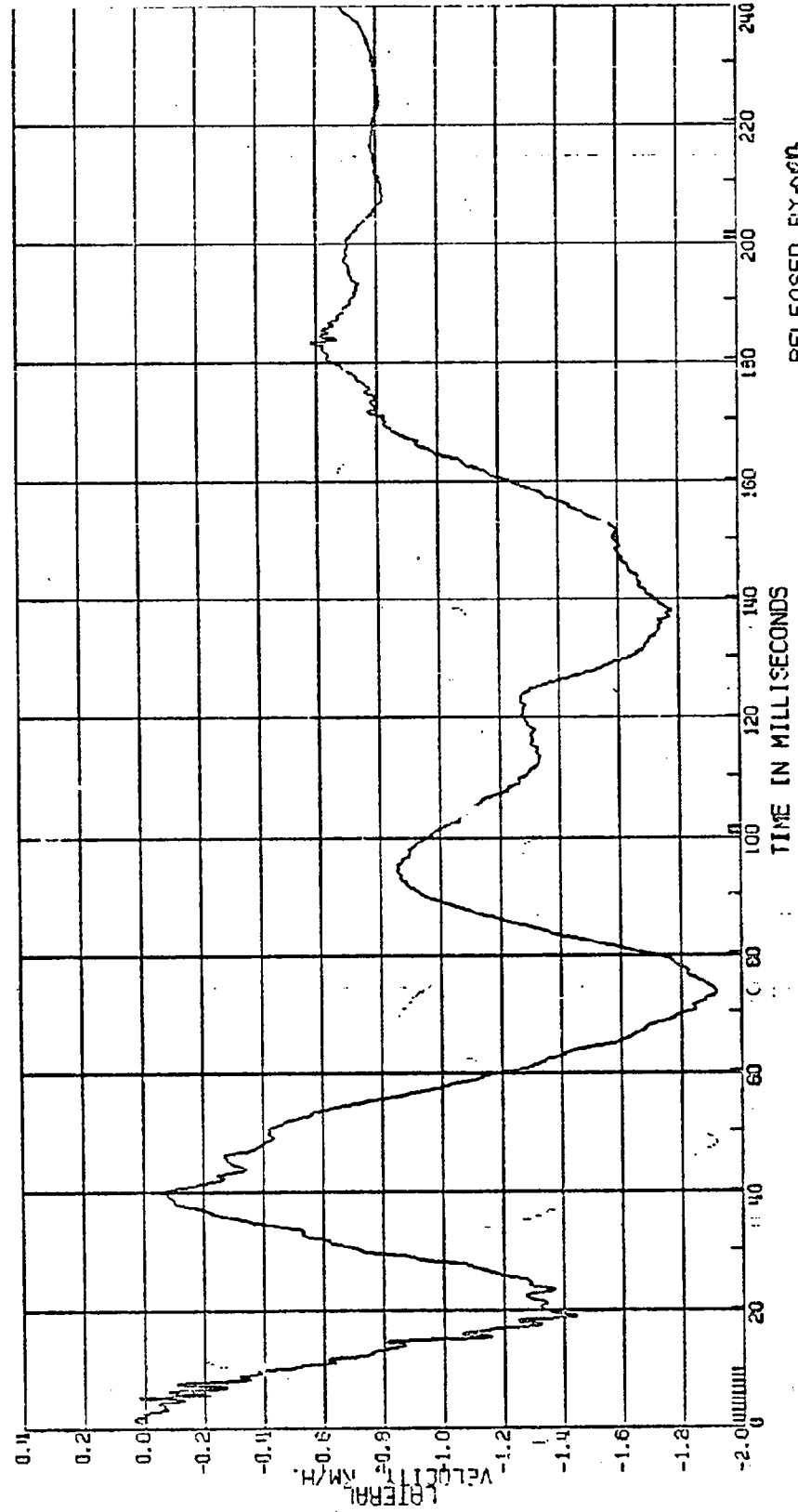
TEST DATE: 04-11-85

(1ST INTEGRAL DR-SIDE ACCELERATION)



RELEASED BY: 9RB
2 PROCESSED 2 APR 85 16:57

C6JF-B RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.4KM/H FIGURE 76
 3865-C90 FISHER-CPC (STRIKER NHTSA BARR) COMPUTED STRIKING BARR-FRT VELOCITY TEST DATE: 04-11-85
 A-D DATA SAE CLASS 180 (1ST INTEGRAL DR-SIDE ACCELERATION)



RELEASED BY: 200
 5 PROCESSED 2 APR 85 16158

CG192B RIGHT SIDE IMPACT
3865-090

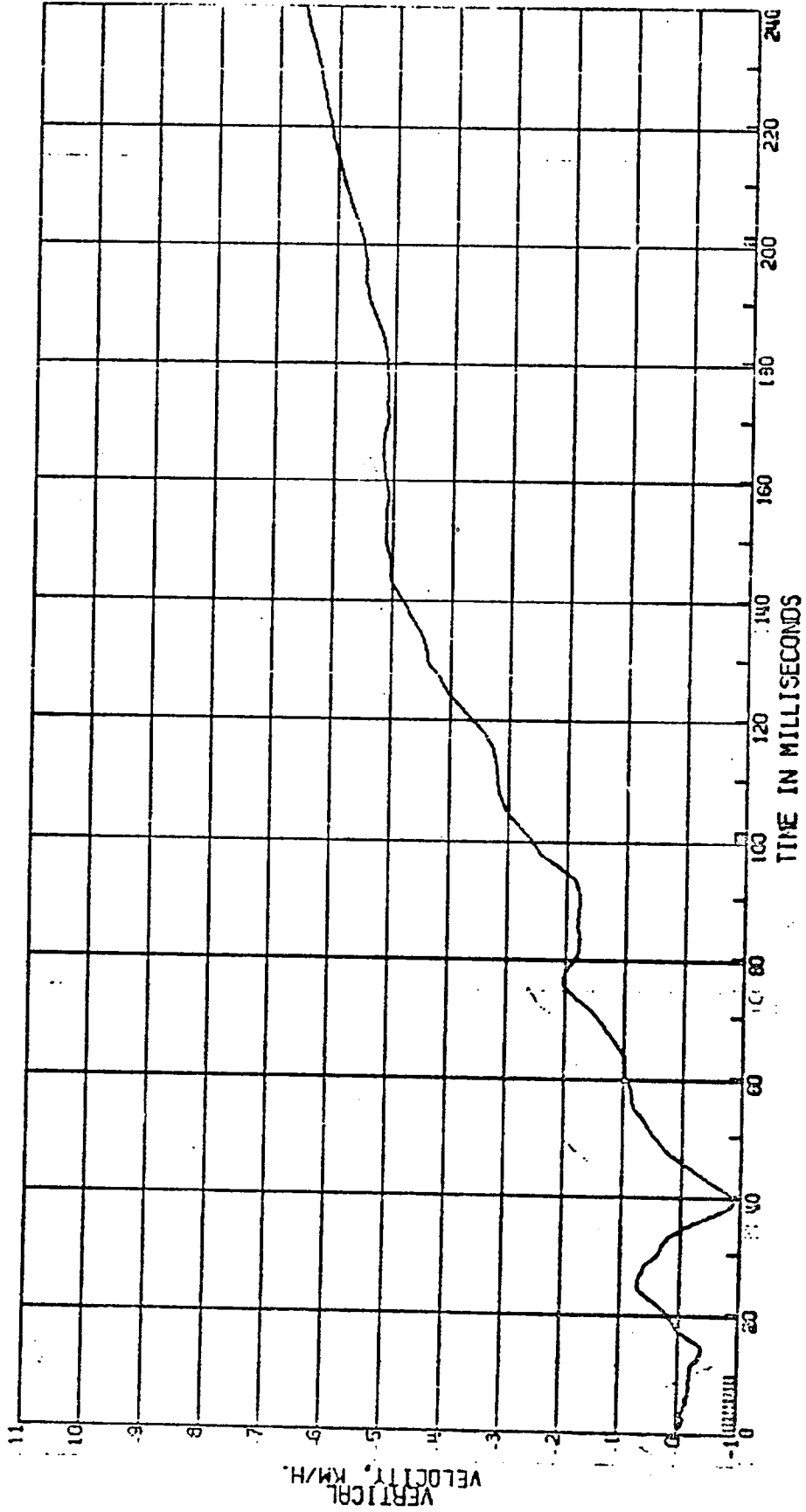
FISHER-CPC(STRIKER NHTSA BARR)
A-D DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE AT 41.4 KM/H FIGURE 77

COMPUTED STRIKING BARR-FRT VELOCITY

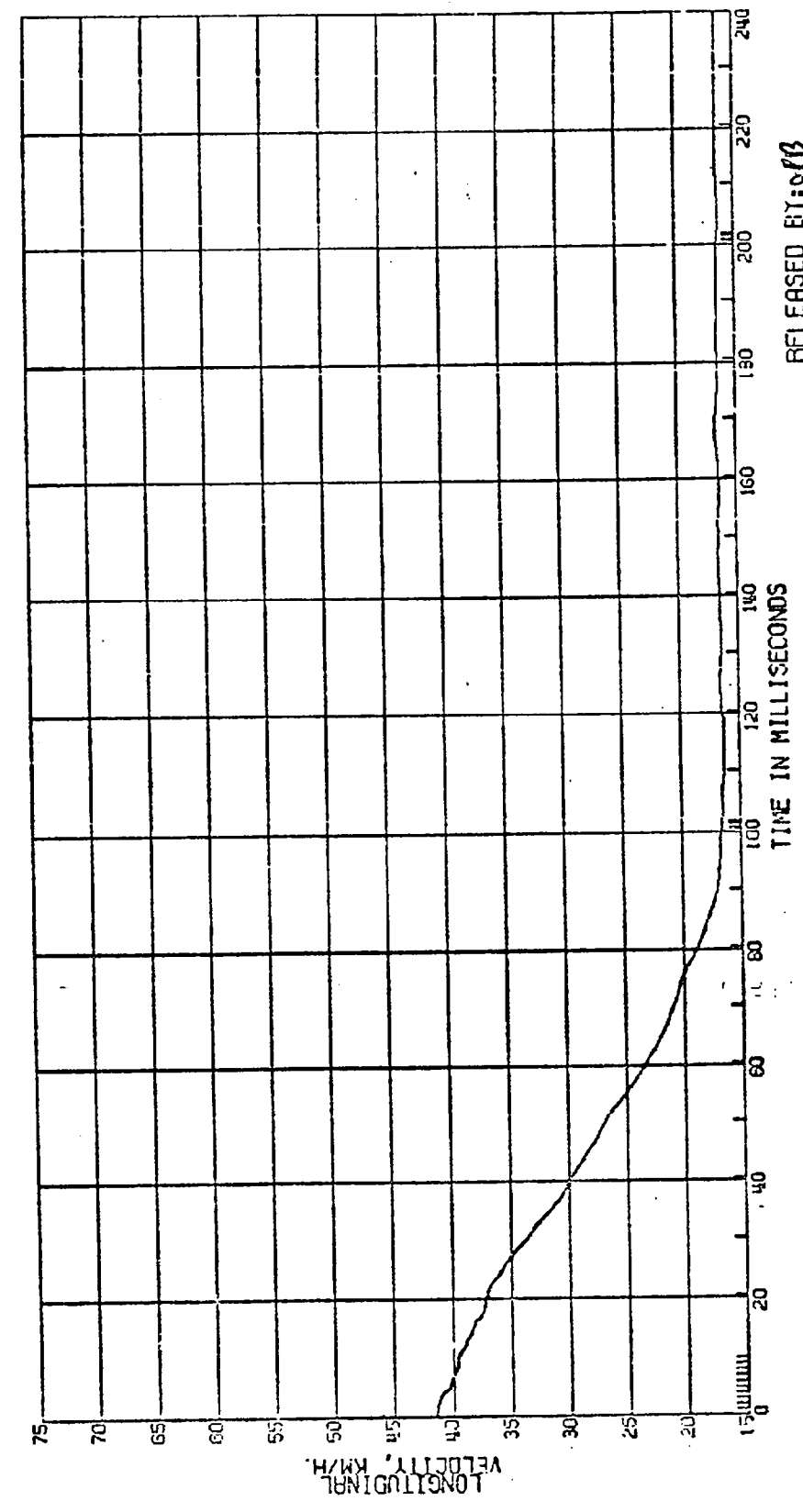
TEST DATE: 04-11-85

(1ST INTEGRAL DR-SIDE ACCELERATION)



RELEASED BY: YMS
8 PROCESSED 2 APR 85 16:58

CG1928 RIGHT SIDE IMPACT MOVING: BARRIER TO PARKED VEHICLE AT 41.4KM/H FIGURE 78
 8805-C90 COMPUTED STRIKING BARR-FRT VELOCITY TEST DATE: 04-11-85
 FISHER-CPC (STRIKER NHTSA BARR) (1ST INTEGRAL PASS-SIDE ACCELERATION)



RELEASED BY: *afB*
 11 PROCESSED 12 APR 85 16:50

C6192E RIGHT SIDE IMPACT
3805-C90

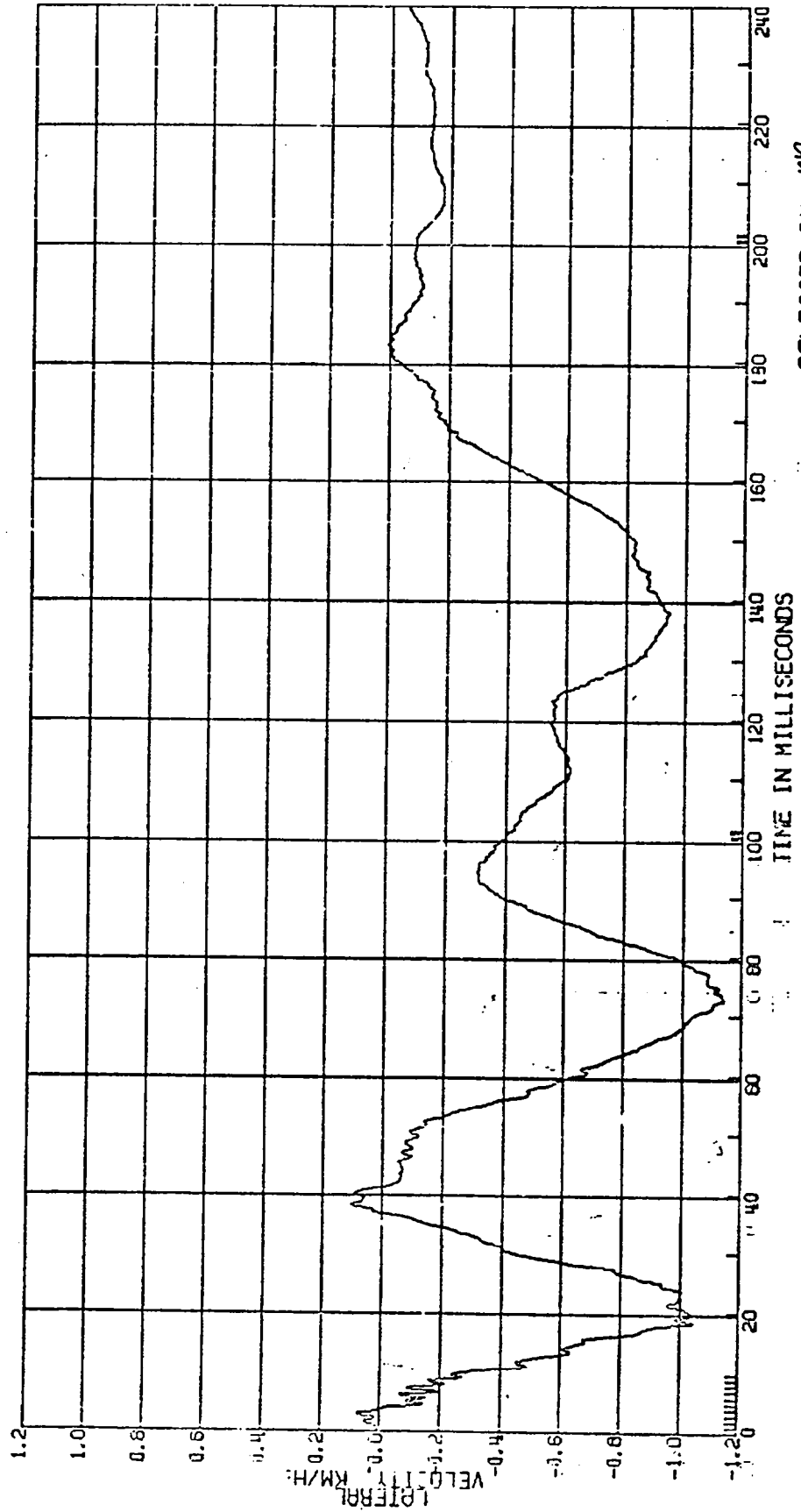
F-SHEP-CPC (STRIKER NHTSA BARRI)
A-U DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE 41.4 KM/H FIGURE 79

COMPUTED STRIKING BARR-FRT VELOCITY

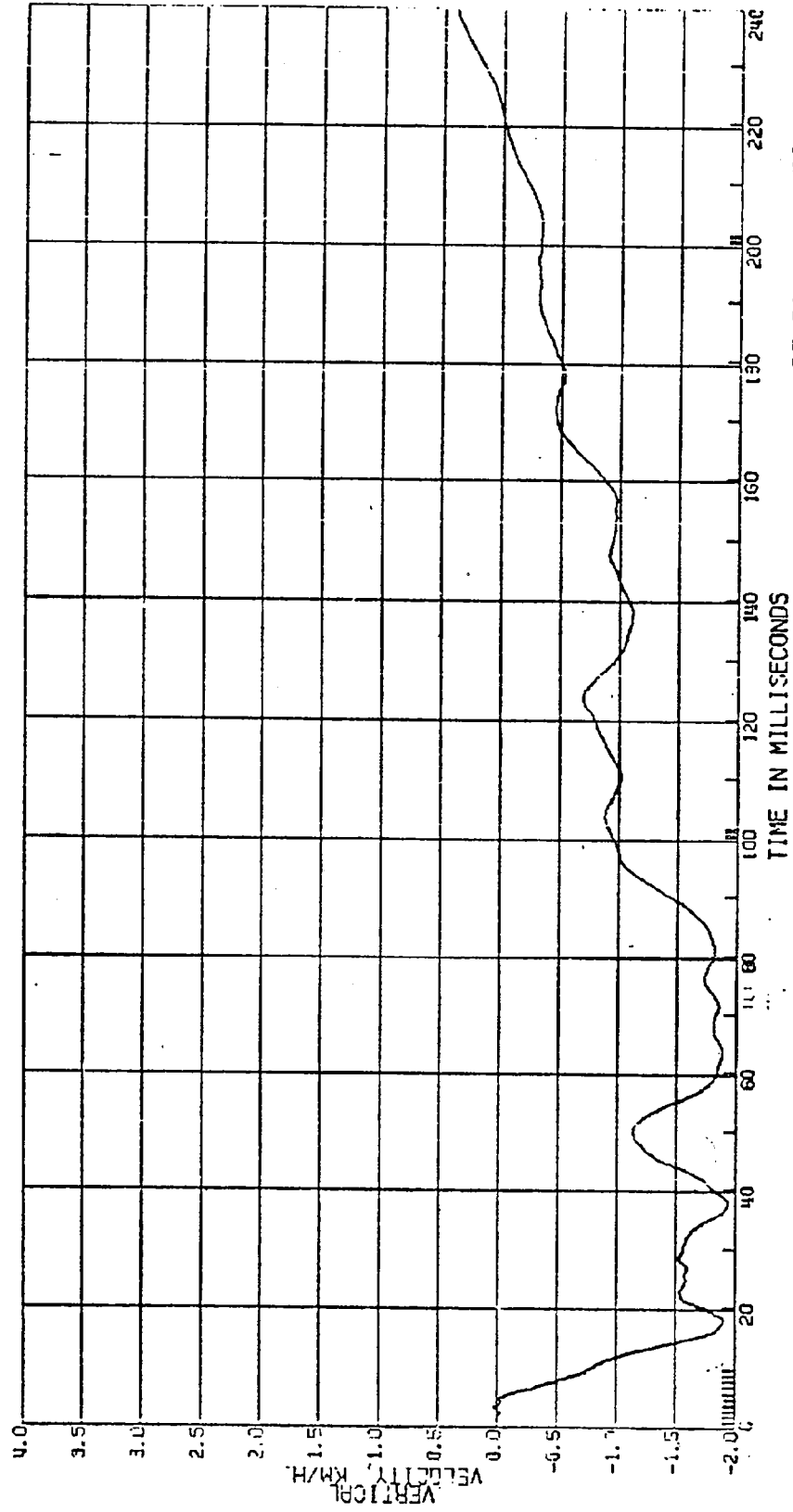
TEST DATE: 04-11-85

(1ST INTEGRAL PASS-SIDE ACCELERATION)



RELEASED BY: *[Signature]*
14 PROCESSED 12 AP 85 16:50

CG192B RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE @ 41.4 KM/H FIGURE 80
 3805-C9C
 FISHER-CPC (STRIKER NHTSA BARR) COMPUTED STRIKING BARR-FRT VELOCITY
 R-C DPTH SAE CLASS 180 (1ST INTEGRAL PASS-SIDE ACCELERATION) TEST DATE: 04-11-85



RELEASED BY: RPB
 17 PROCESSED 12 APR 85 17:00

MOVING BARRIER TO PARKED VEHICLE 41.4 KM/H FIGURE 87

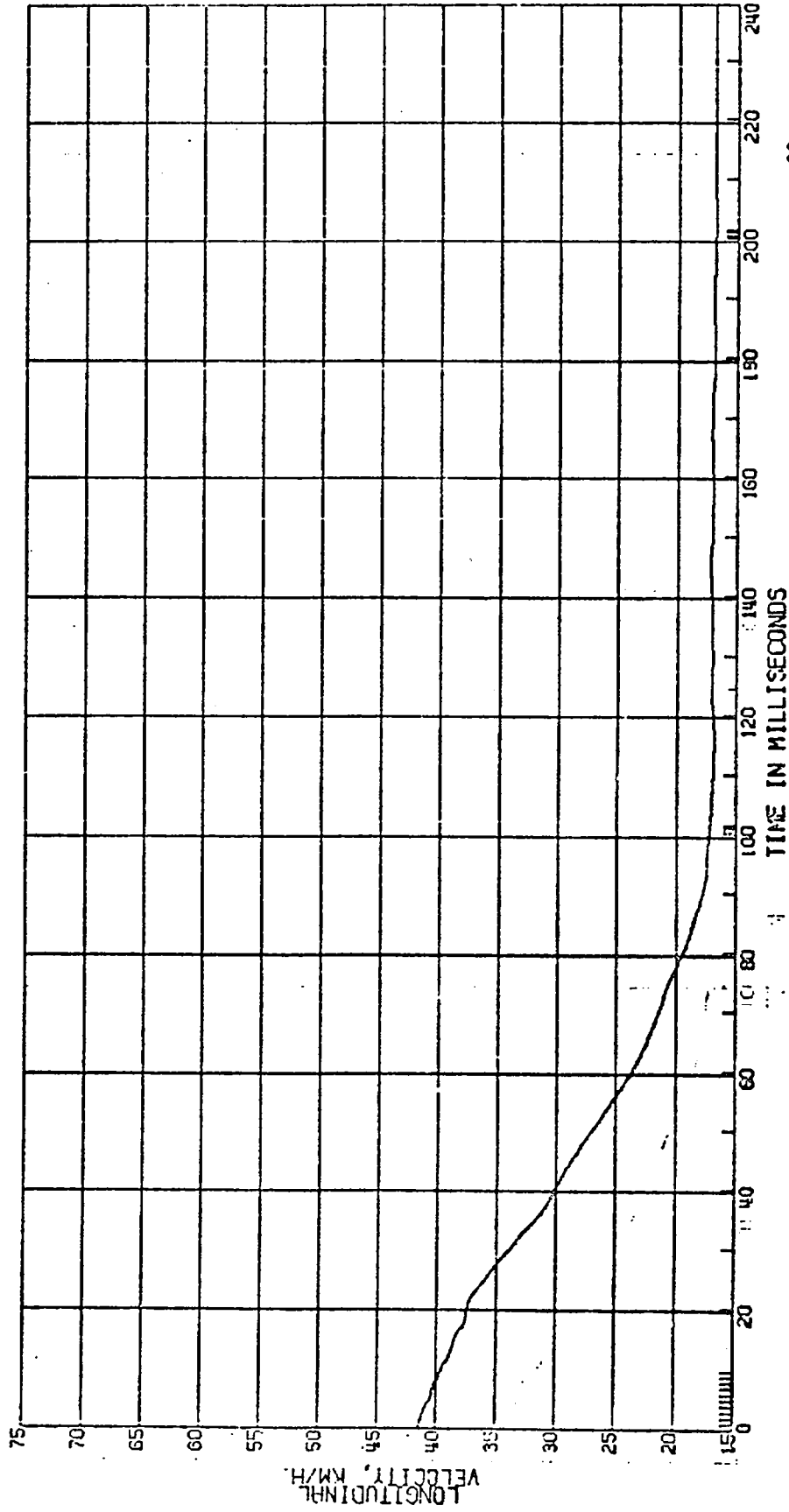
COMPUTED STRIKING BARR-FRT VELOCITY

TEST DATE: 04-11-85

(1ST INTEGRAL AVERAGED ACCELERATION)

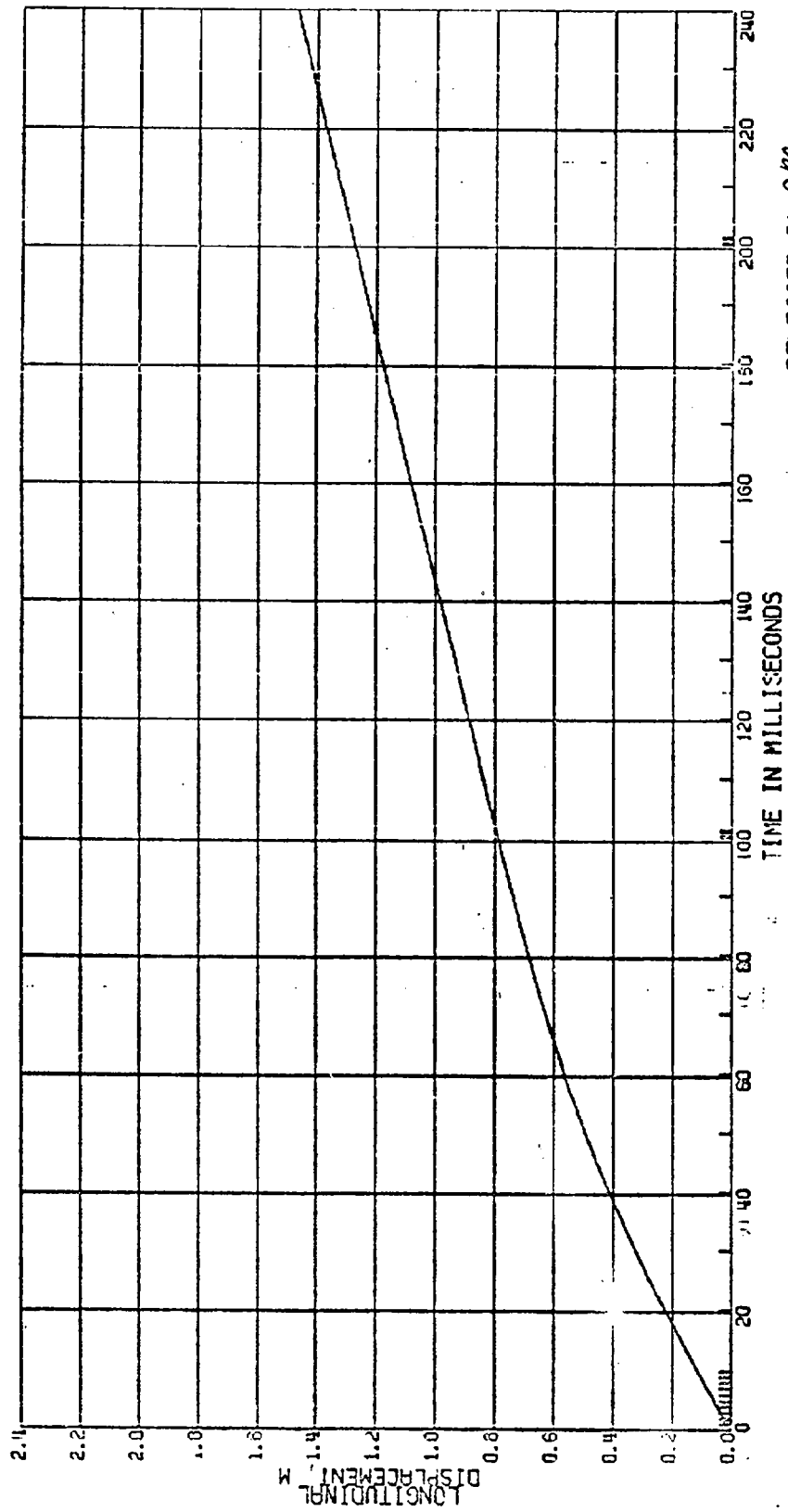
IMP-CPC (STRIKER N-TSH 338A)

DATA SAE CLASS 13C



RELEASED BY: 878
20 PROCESSED 12 APR 85 17:04

CC 928 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE @ 41.4 KM/H FIGURE 82
 3865-C90
 FISHER-CPC (STRIKER NHTSA BARR) COMPUTED STRIKING BARR-FRT DISPLACEMENT TEST DATE: 04-11-85
 1.0 DETA SAE CLASS 180 (2ND INTEGRAL DR-SIDE ACCELERATION)



RELEASED BY: QFB
 3 PROCESSED 2 APR 85 16:57

0-9-85 RIGHT SIDE IMPACT
3065-190

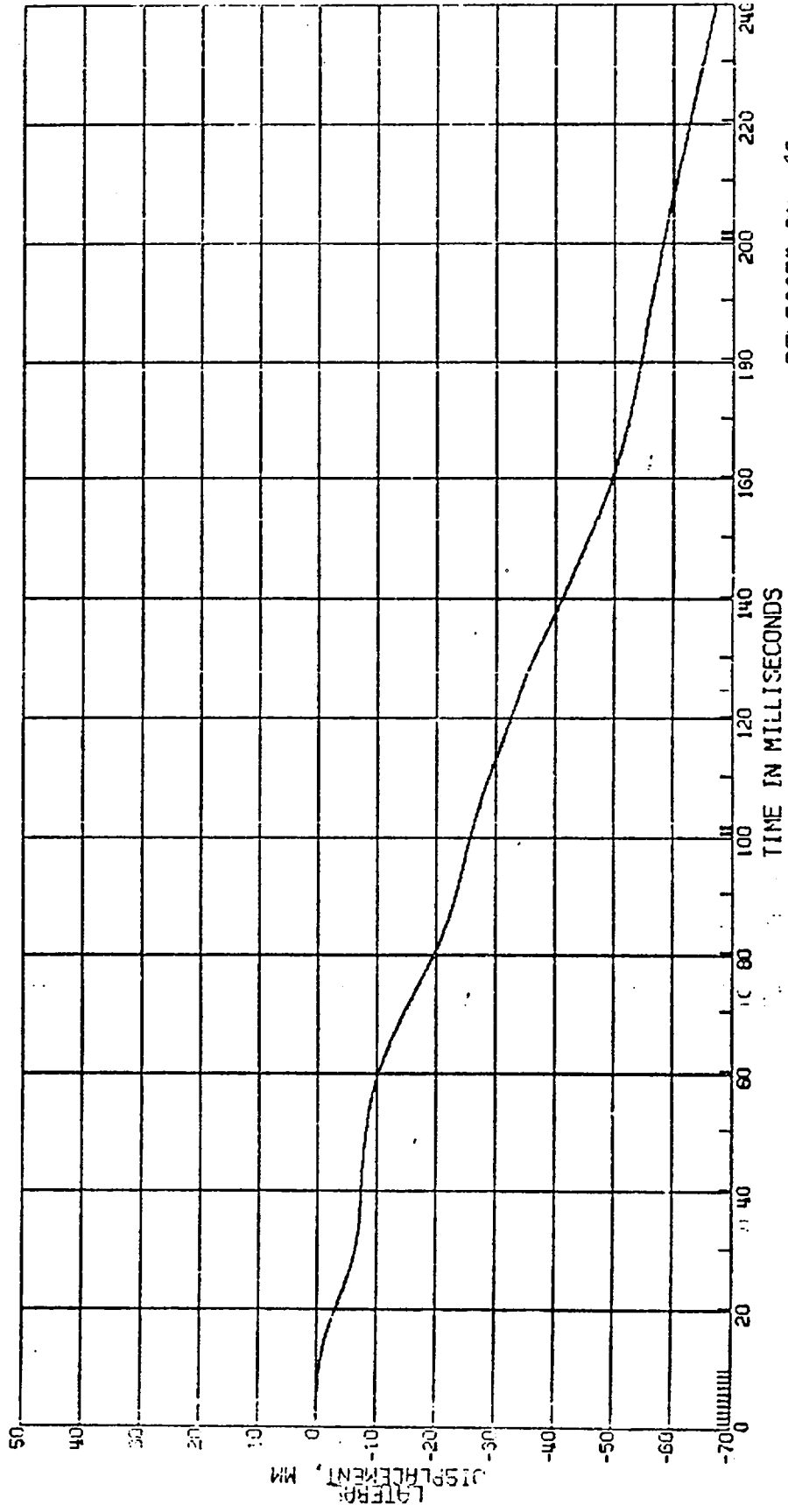
3. STAFF-CPC (STRIKER NHTSA BARR)
A-C DATA SAE CLASS 180

MOVING BARRIER TO PARKED VEHICLE @ 41.4 KM/H FIGURE 83

COMPUTED STRIKING BARR-FRT DISPLACEMENT

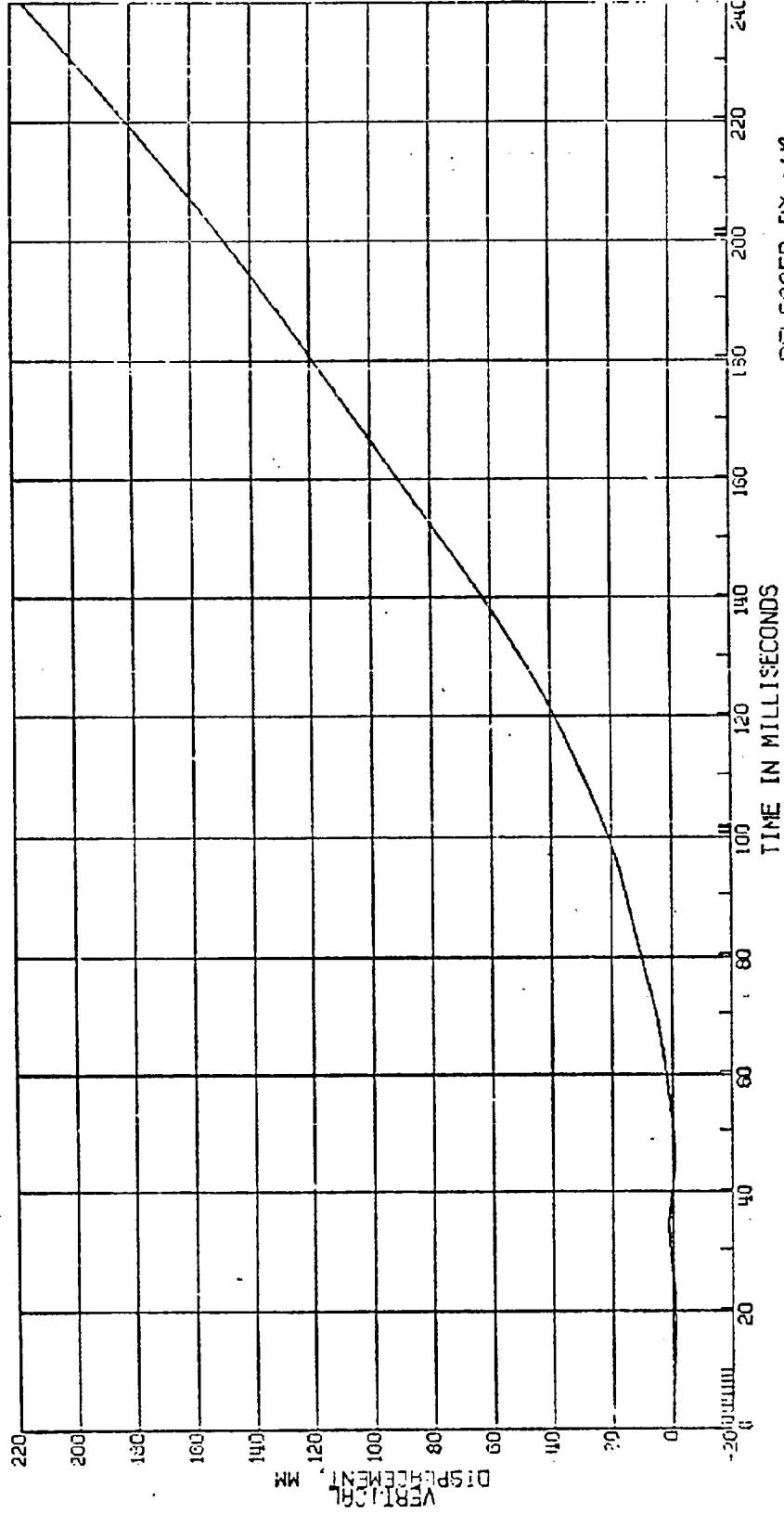
TEST DATE: 04-11-85

(2ND INTEGRAL DR-SIDE ACCELERATION)



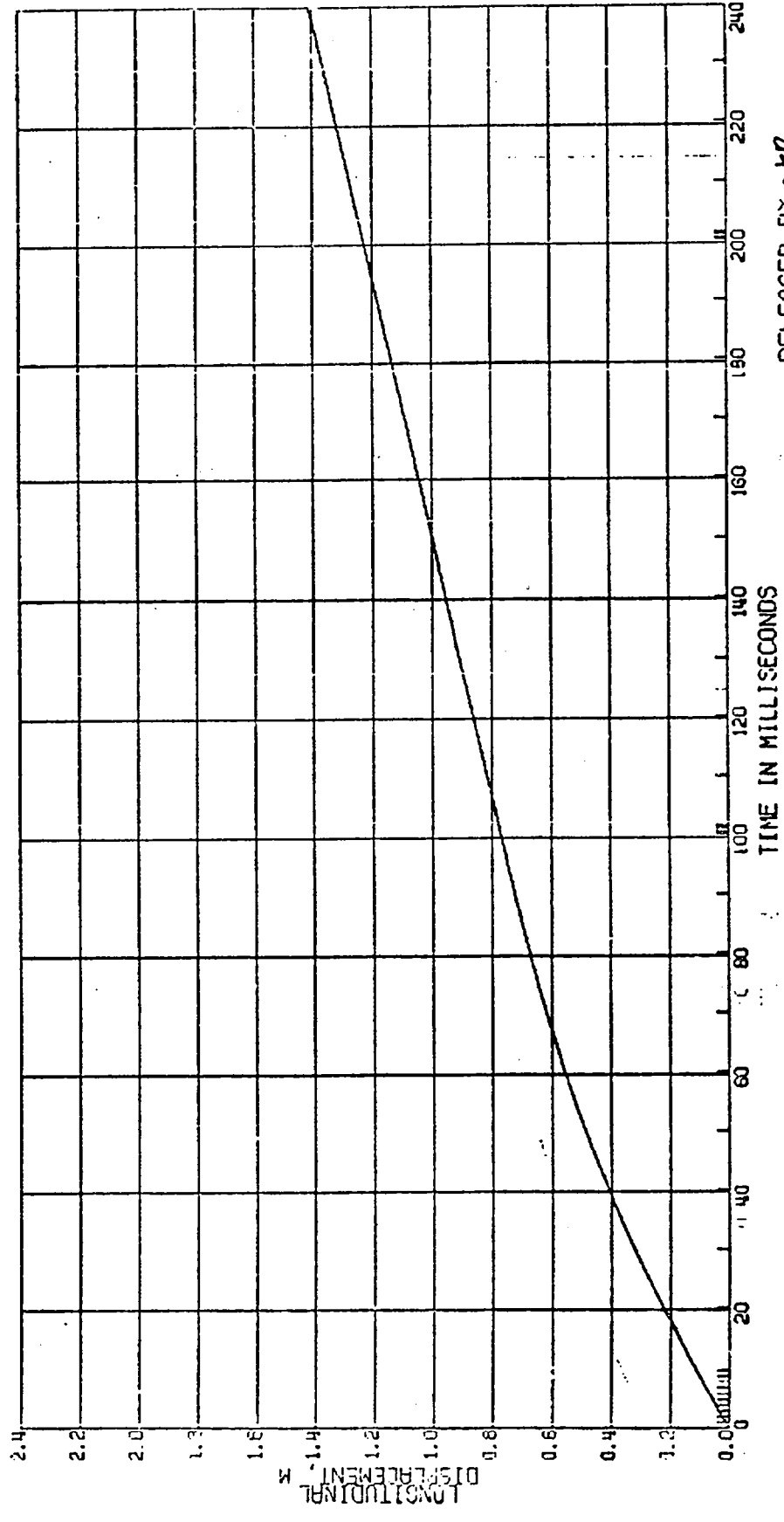
RELEASED BY: *YFB*
6 PROCESSED .2 RP 85 16:58

CU1928 RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE | 41.4 KM/H FIGURE 04
 3865-C90
 FISHER-CPC (STRIKER NHTSA BARR) COMPUTED STRIKING BARR-FRT DISPLACEMENT TEST DATE: 04-11-85
 A-D DATA SAE CLASS 180 : (2ND INTEGRAL DR-SIDE ACCELERATION)



RELEASED BY: JKS
 9 PROCESSED 2 APR 85 16:59

LONGITUDINAL SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE AT 41.4 KM/H FIGURE 85
 8025-020
 SYSTEM-CPC (STRIKER NHTSA BARR) COMPUTED STRIKING BARR-FRT DISPLACEMENT TEST DATE: 04-11-85
 800 DATA SAE CLASS 130 (2ND INTEGRAL PASS-SIDE ACCELERATION)



RELEASED BY: 910
 12 PROCESSED 12 APR 85 16:50

MOVING BARRIER TO PARKED VEHICLE AT 41.4 KM/H FIGURE 86

TEST DATE: 04-11-85

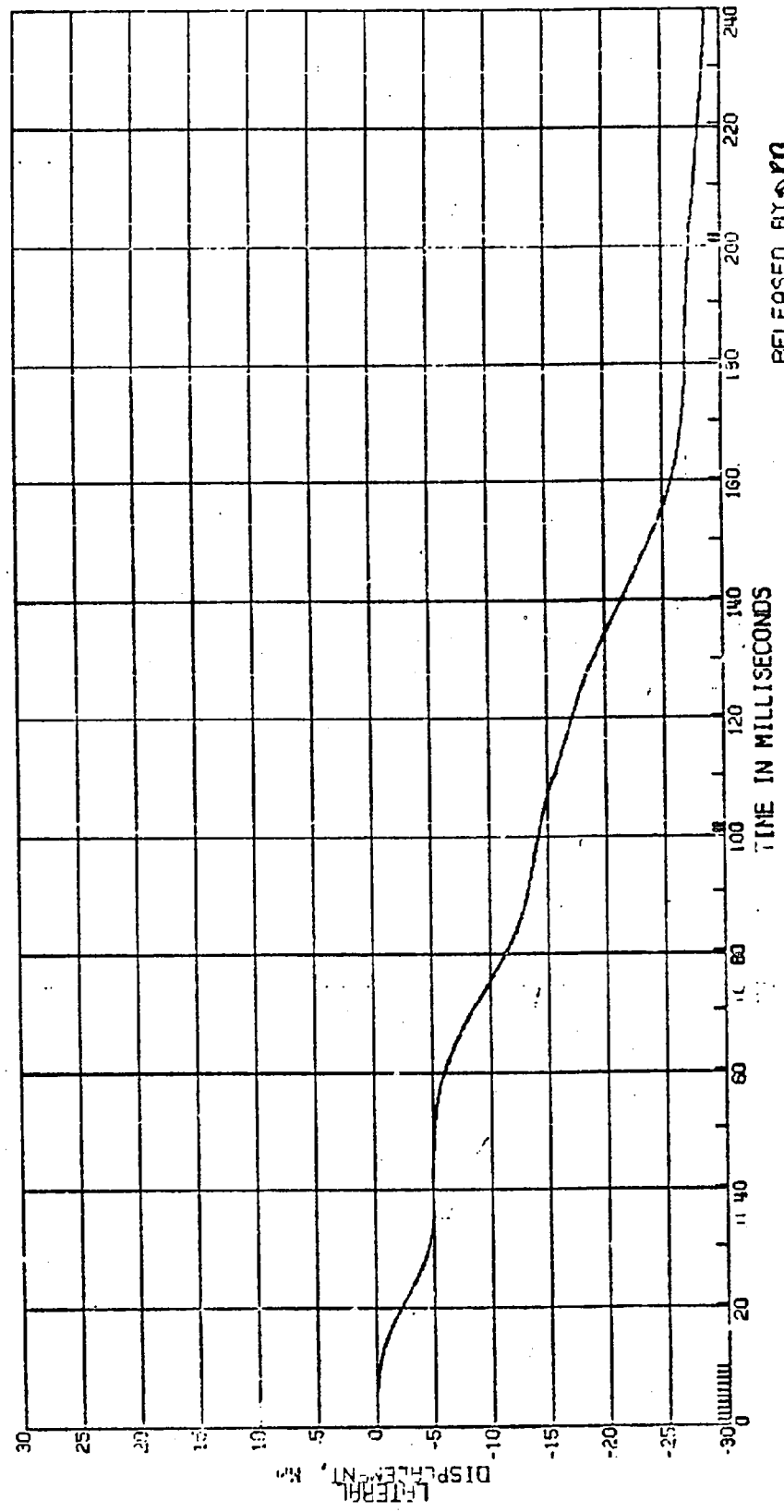
COMPUTED STRIKING BARR-FRT DISPLACEMENT

(2ND INTEGRAL PASS-SIDE ACCELERATION)

HIGH SIDE IMPACT

STRIKER NHTSA BARR

CLASS 180

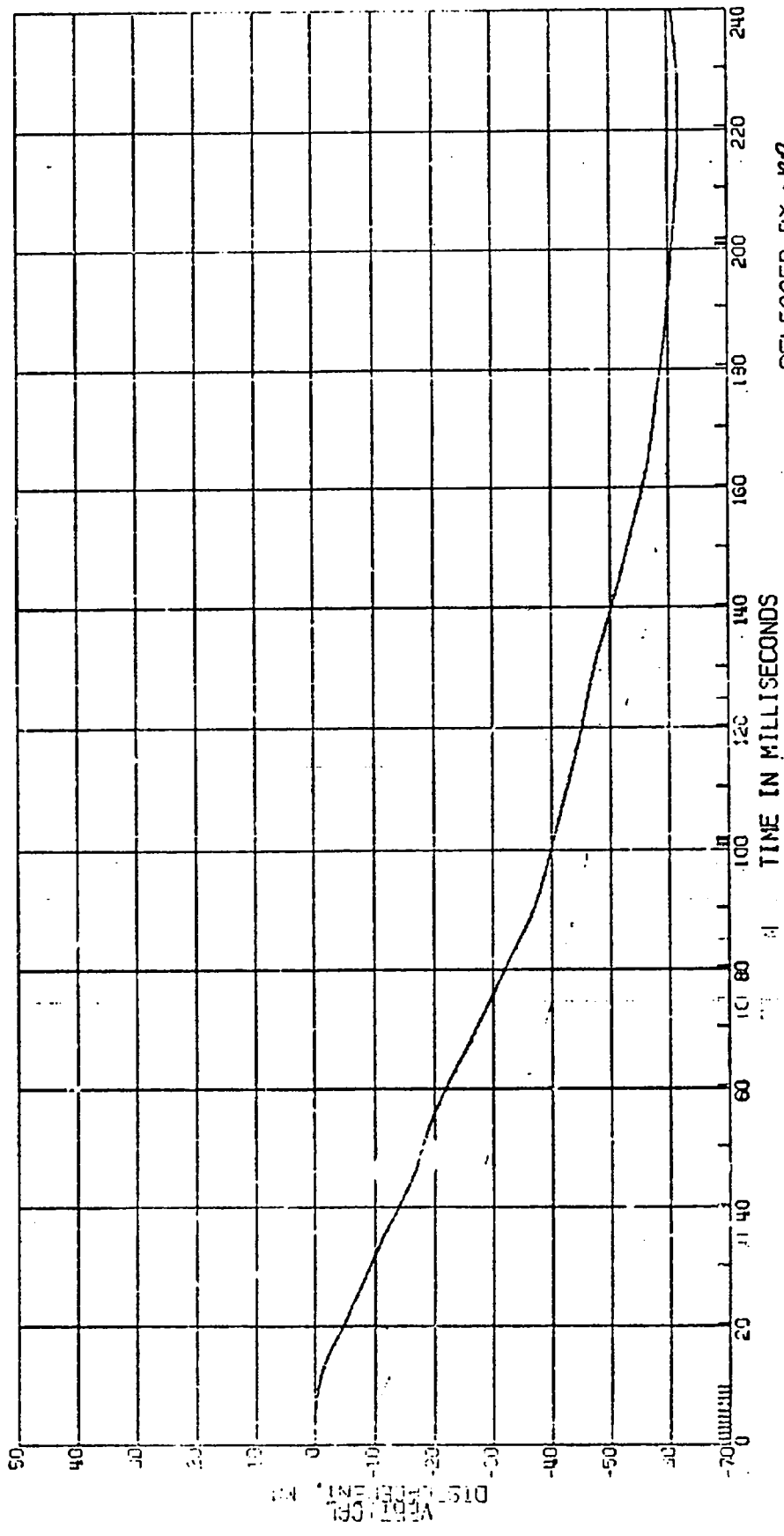


RELEASED BY: JPD
15 APR 85 17:00

COMPUTED STRIKING BARR-FRT DISPLACEMENT

TEST DATE: 04-11-65

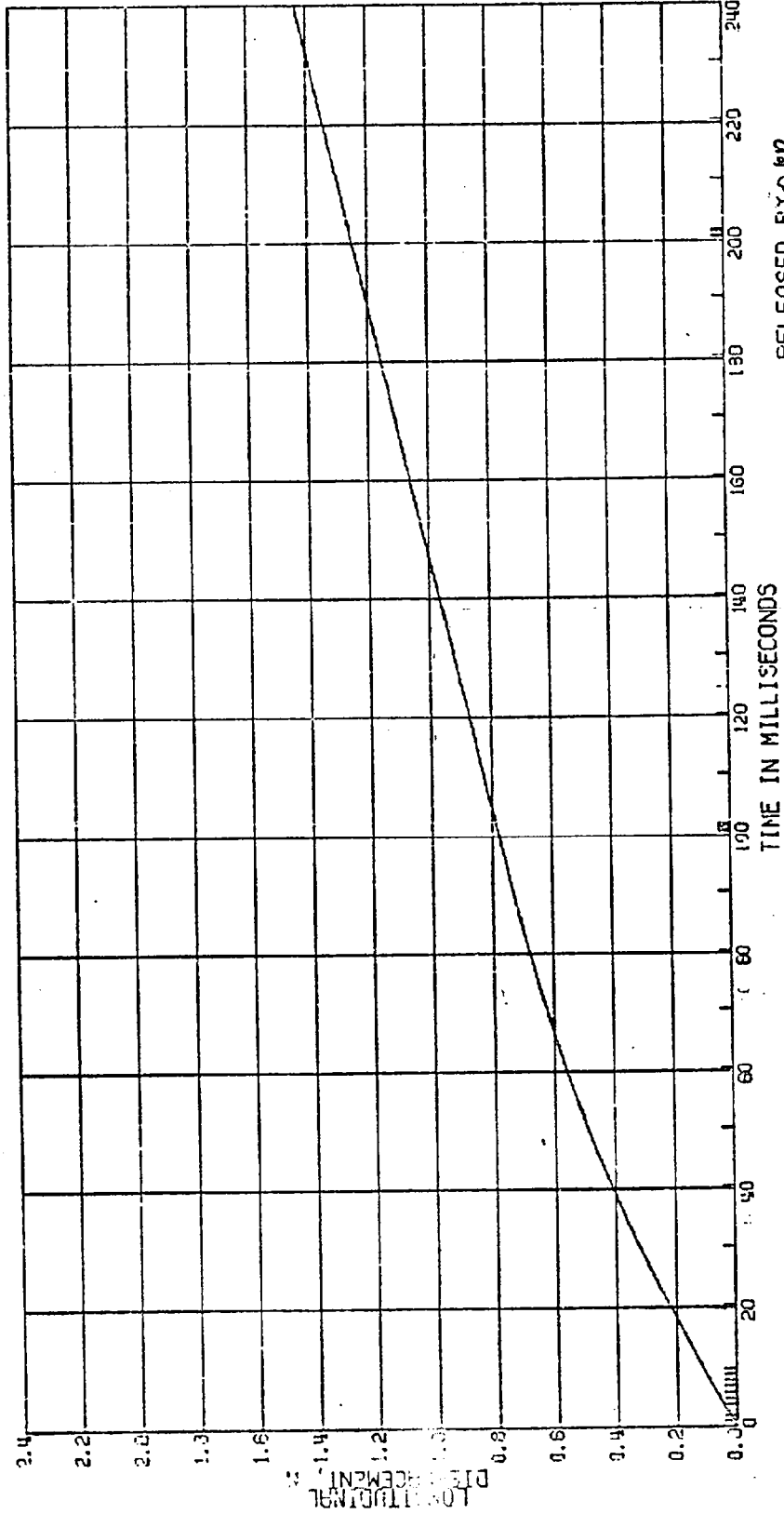
(2ND INTEGRAL PASS-SIDE ACCELERATION)



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18 PROCESSED 12 APR 65 17:0

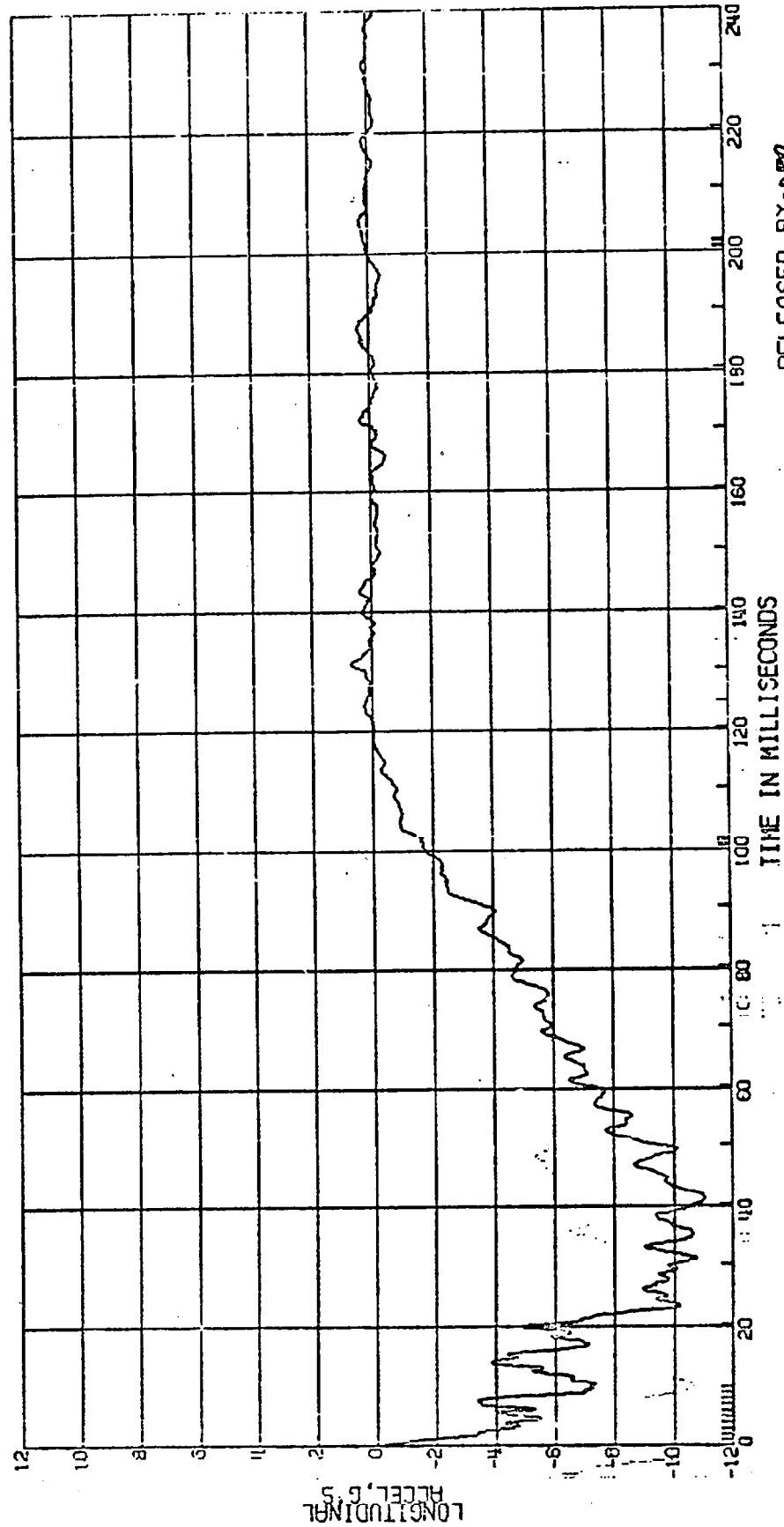
Vertical Displacement in Inches vs Time in Milliseconds

3865-C90
 F1000-OPS STRIKER NHTSA (BARR)
 A-B DATA SAE CLASS 180
 MOVING BARRIER TO CHARGED VEHICLE - 41.4MM/00 FLIGHT 00
 COMPUTED STRIKING BARR-FRT DISPLACEMENT
 (2ND INTEGRAL AVERAGED ACCELERATION)
 TEST DATE: 04-11-85



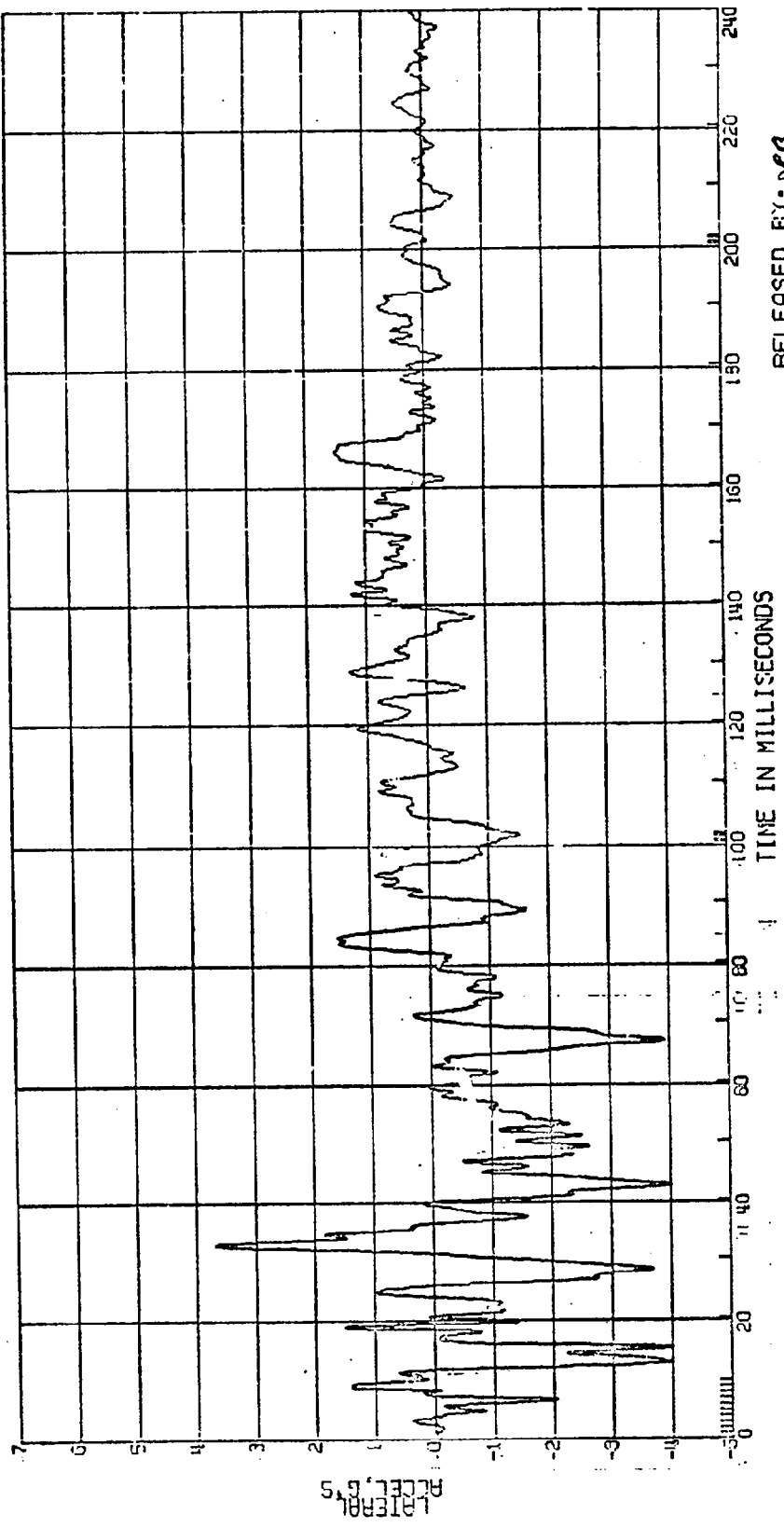
RELEASED BY **SP8**
 21 APR 85 17:02

3863-C90
FISHER-OPC(STRIKER NHTSA 'BARR)
A-C DATA SAE CLASS 60
DR-SIDE STRIKING BARR. MID ACCEL.
TEST DATE: 04-11-85



RELEASED BY: JPB
22 PROCESSED 12/1/85 17:02

C6192E RIGHT SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE 41.4 KM/H FIGURE 90
 3805-C90
 FISHER - CPC (STRIKER NHTSA BARR) DR-SIDE STRIKING BARR. MID ACCEL. TEST DATE: 04-11-85
 A-C DATA SAE CLASS 60

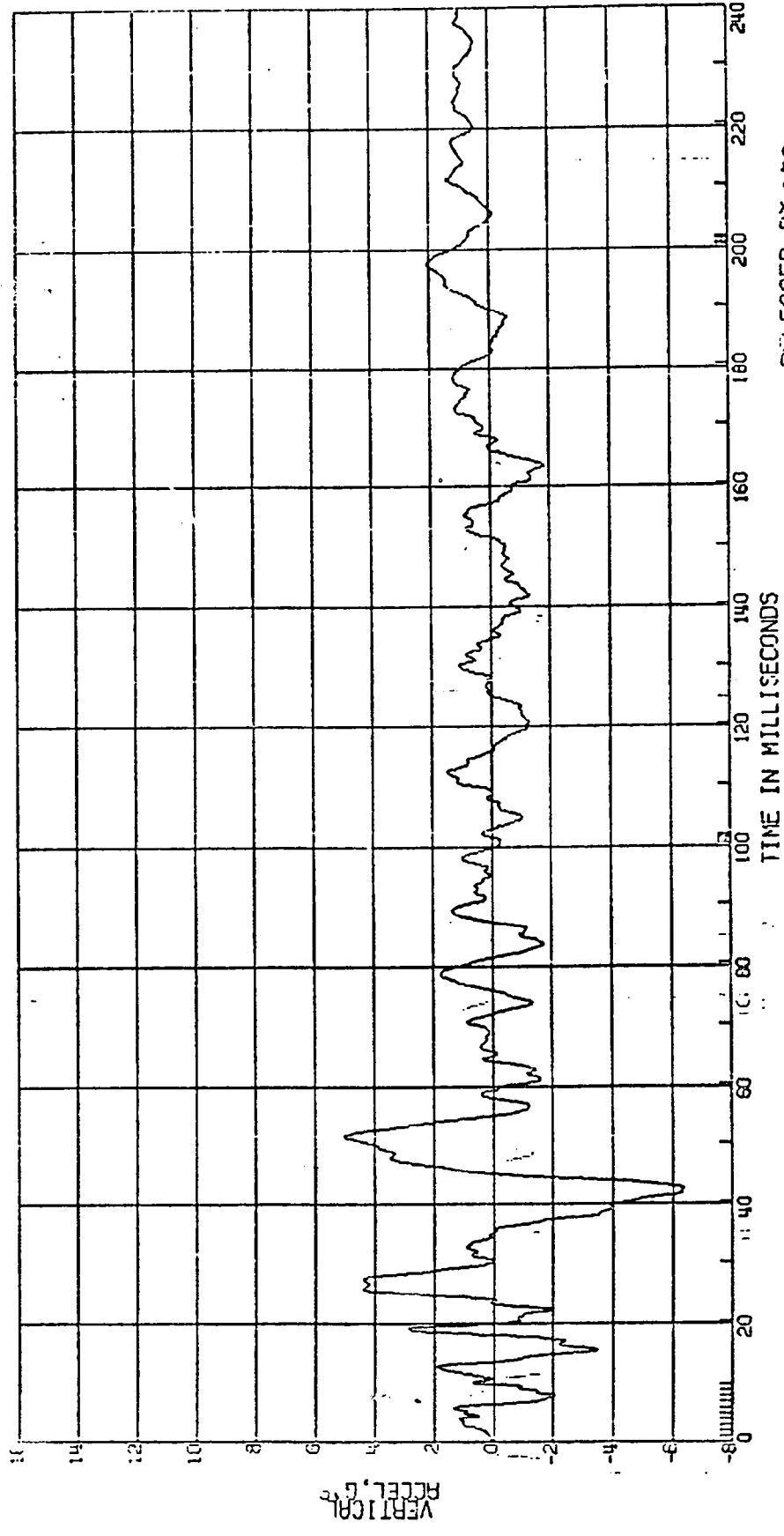


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 25 PROCESSED 12 APR 85 17:03

3325-C90

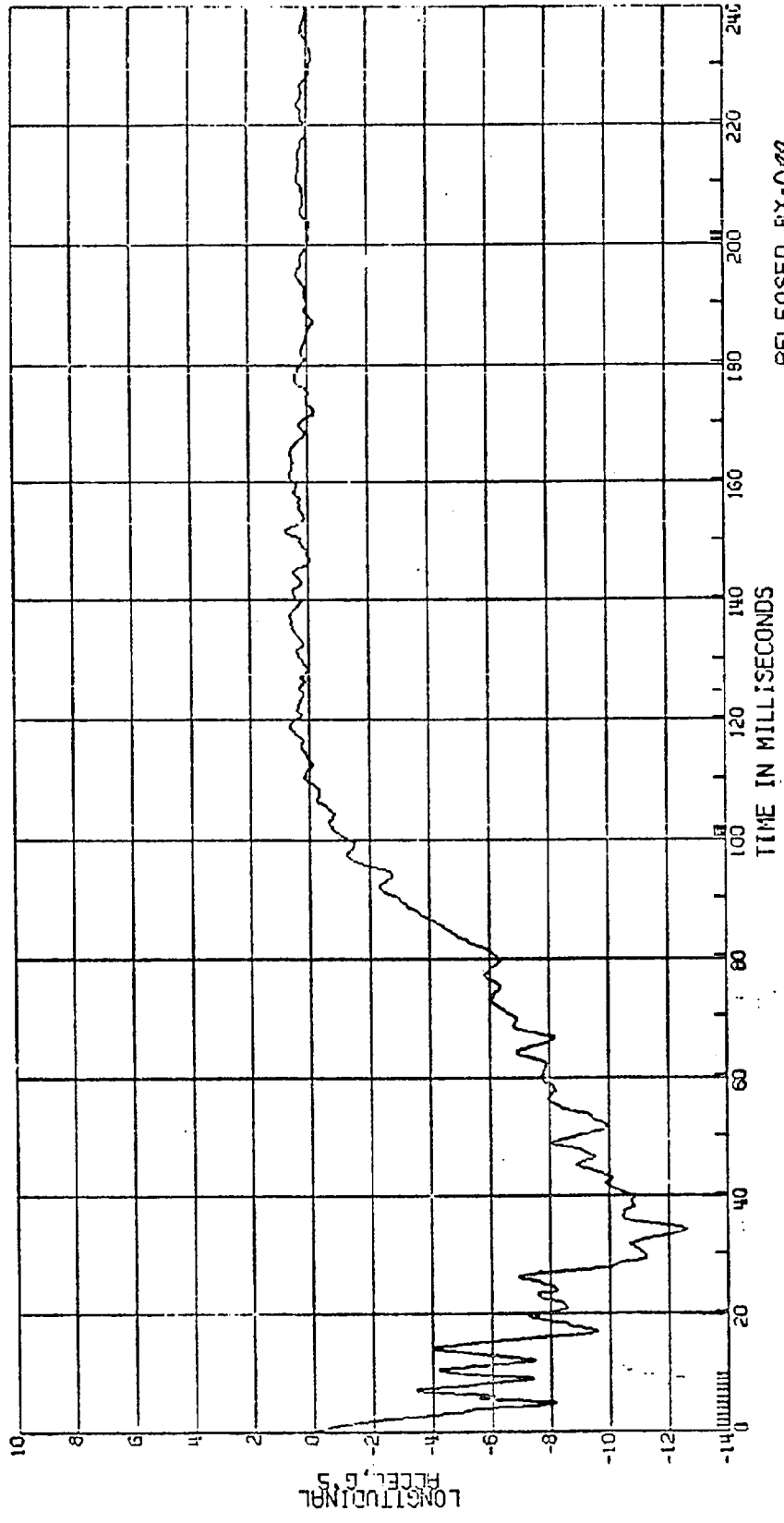
DR-SIDE STRIKING BARR. MID ACCEL. TEST DATE: 04-11-85

STRIP-CPC (STRIKER NHTSA BARR)
R-D DATA GAE CLASS 30



RELEASED BY: 920
28 PROCESSED 12 APR 85 17:00

105-C90
PASS-SIDE: STRIKING BARR. MID ACCEL. TEST DATE: 04-11-85
PASS-SIDE: STRIKER NHTSA (BARR)
A-D DATA SAE CLASS 60



RELEASED BY: *gfb*
31 PROCESSED 12 APR 85 17:04

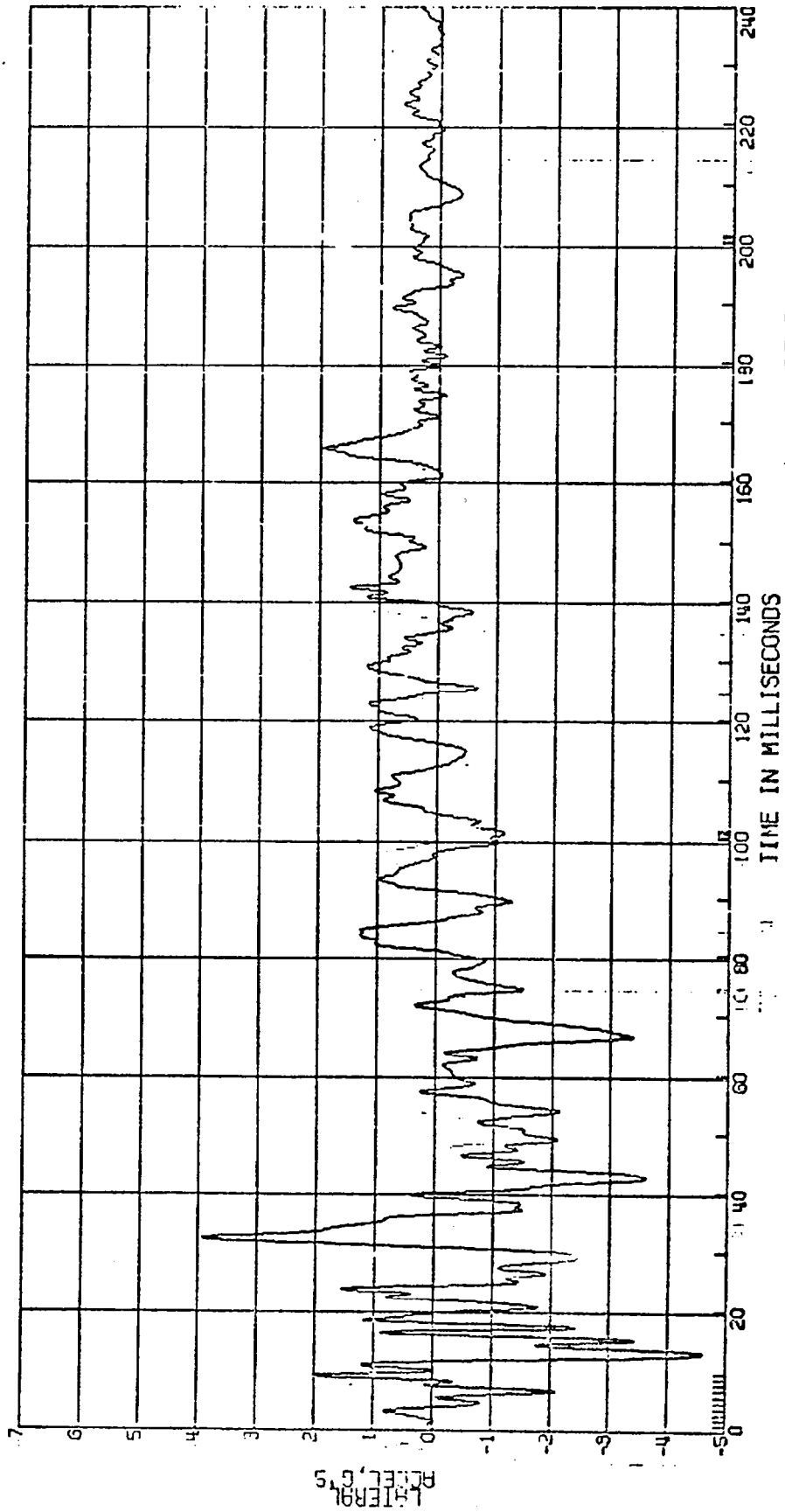
3805-00

FISHER-OPC (STRIKER NHTSA 'BARR)

A-G DATA SAE CLASS 60

PASS-SIDE STRIKING BARR. MID ACCEL.

TEST DATE: 04-11-85



RELEASED BY: 2210
34 . PROCESSED 12 HP 85 17:04

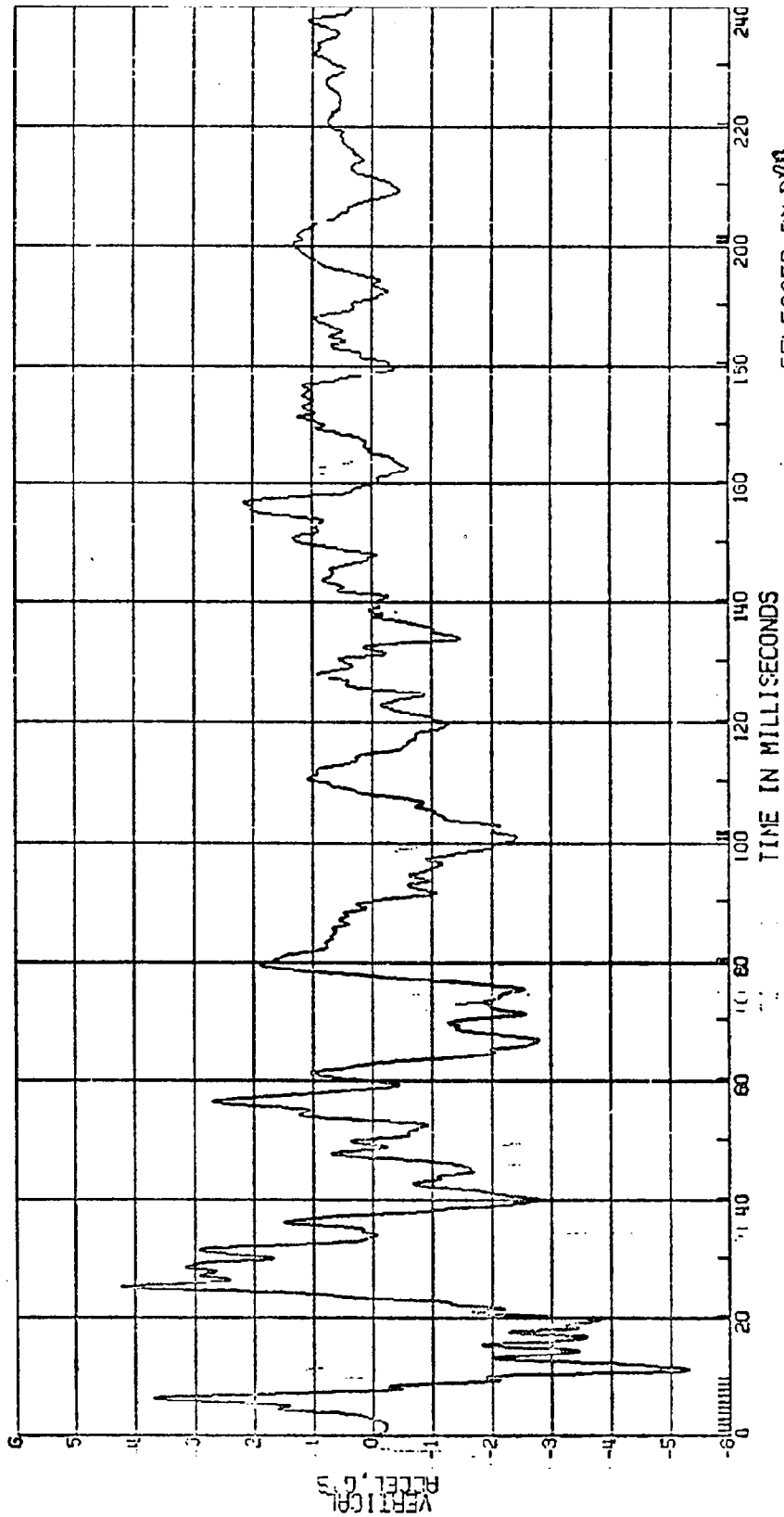
3805-090

FISHP-CPC (STRIKER NHTSA BARR)

A-D DATA SAE CLASS 60

PASS-SIDE: STRIKING BARR. MID ACCEL.

TEST DATE: 04-11-85



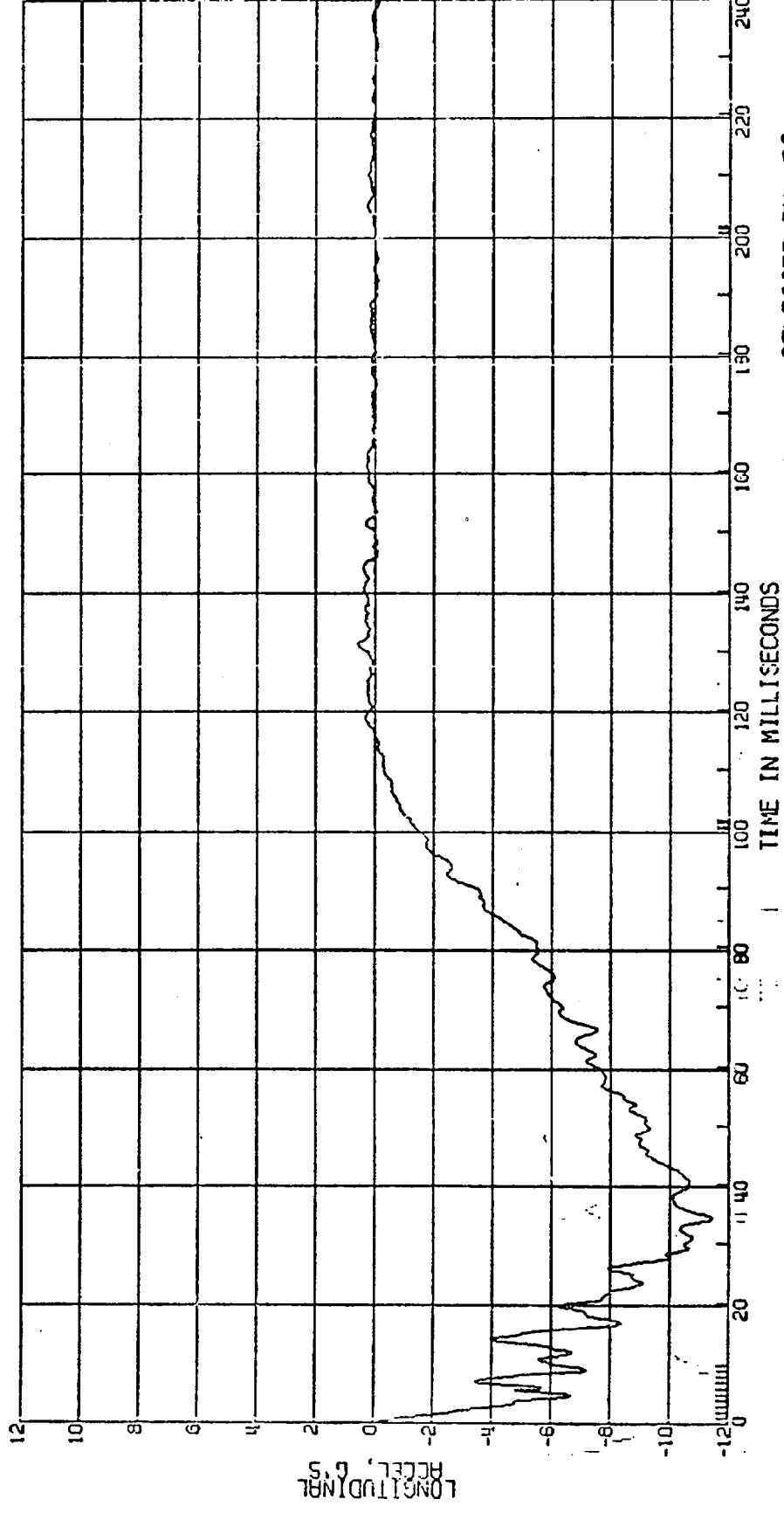
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37 PROCESSED 12 AP 85 17:05

SAE CLASS 60
NHTSA BARRI
STRIKER

AVERAGED DRIVER & PASSENGER SIDES
AVERAGED STRIKING BARR-MID ACCEL

TEST DATE: 04-11-85



RELEASED BY: 028
40 PROCESSED 12 HP 85 17:06

001.3-1310

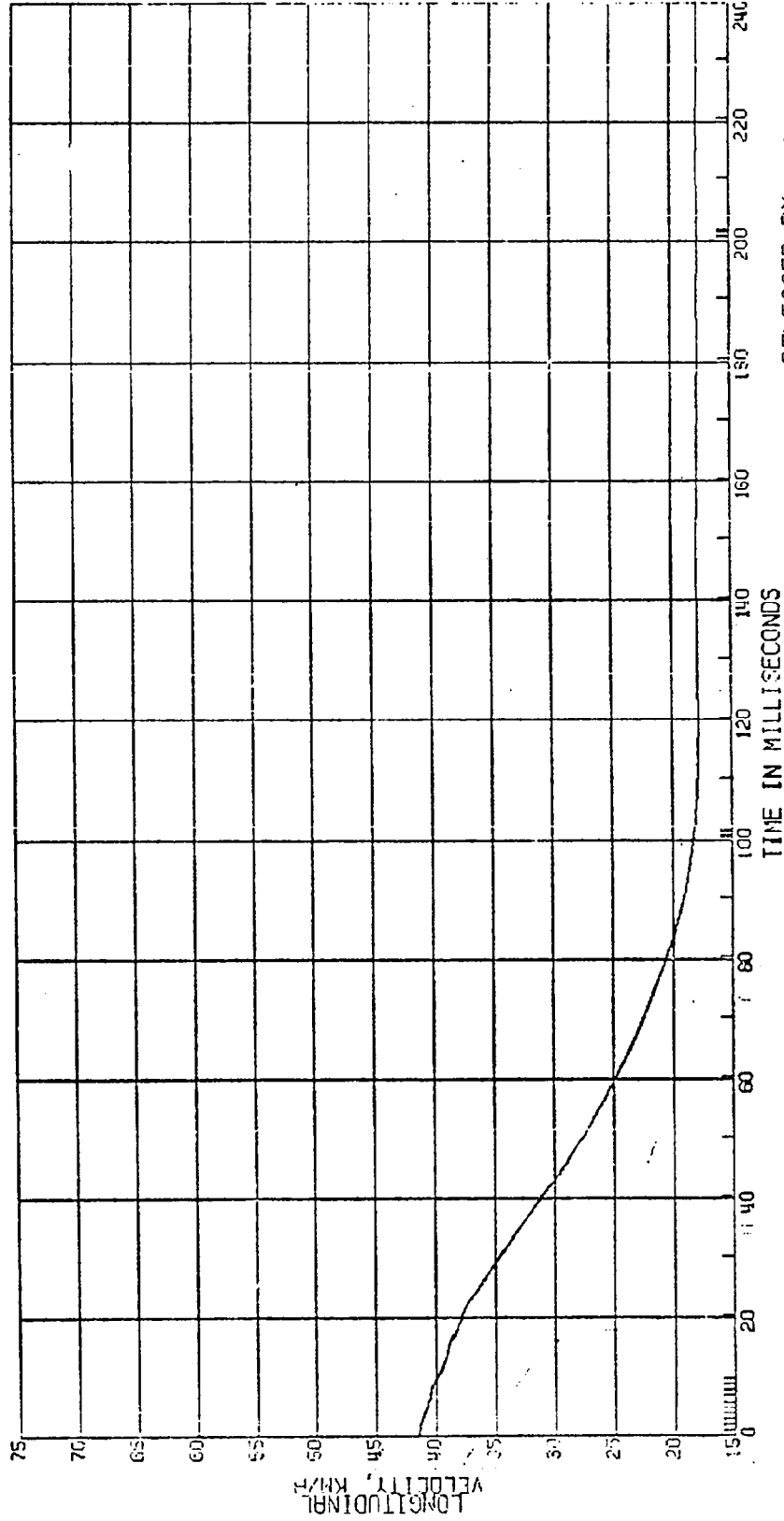
FISHER-CPC STRIKER NHTSA BARR

A-D DATA SAE CLFSS 180

COMPUTED STRIKING BARR-MID VELOCITY

(1ST INTEGRAL OR-SIDE ACCELERATION)

TEST DATE: 04-11-65

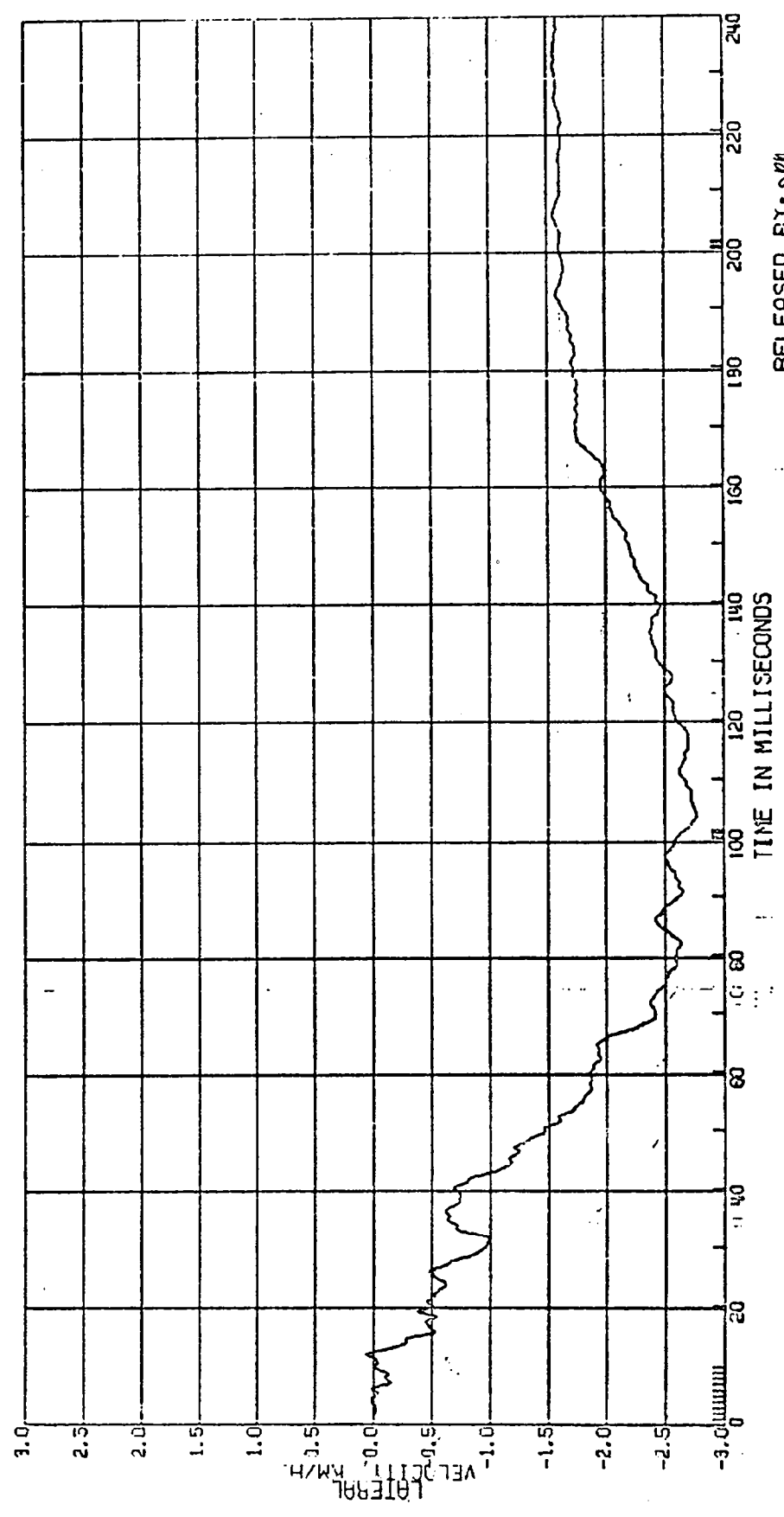


RELEASED BY: XRB
2) PROCESSED 12 APR 65 17:01

FISHER-CPC (STRIKER NHTSA BARR)
R-D DATA SAE CLASS 120

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

TEST DATE: 04-11-85



RELEASED BY: JMK
26 PROCESSED 12 APR 85 17:03

36 5-090

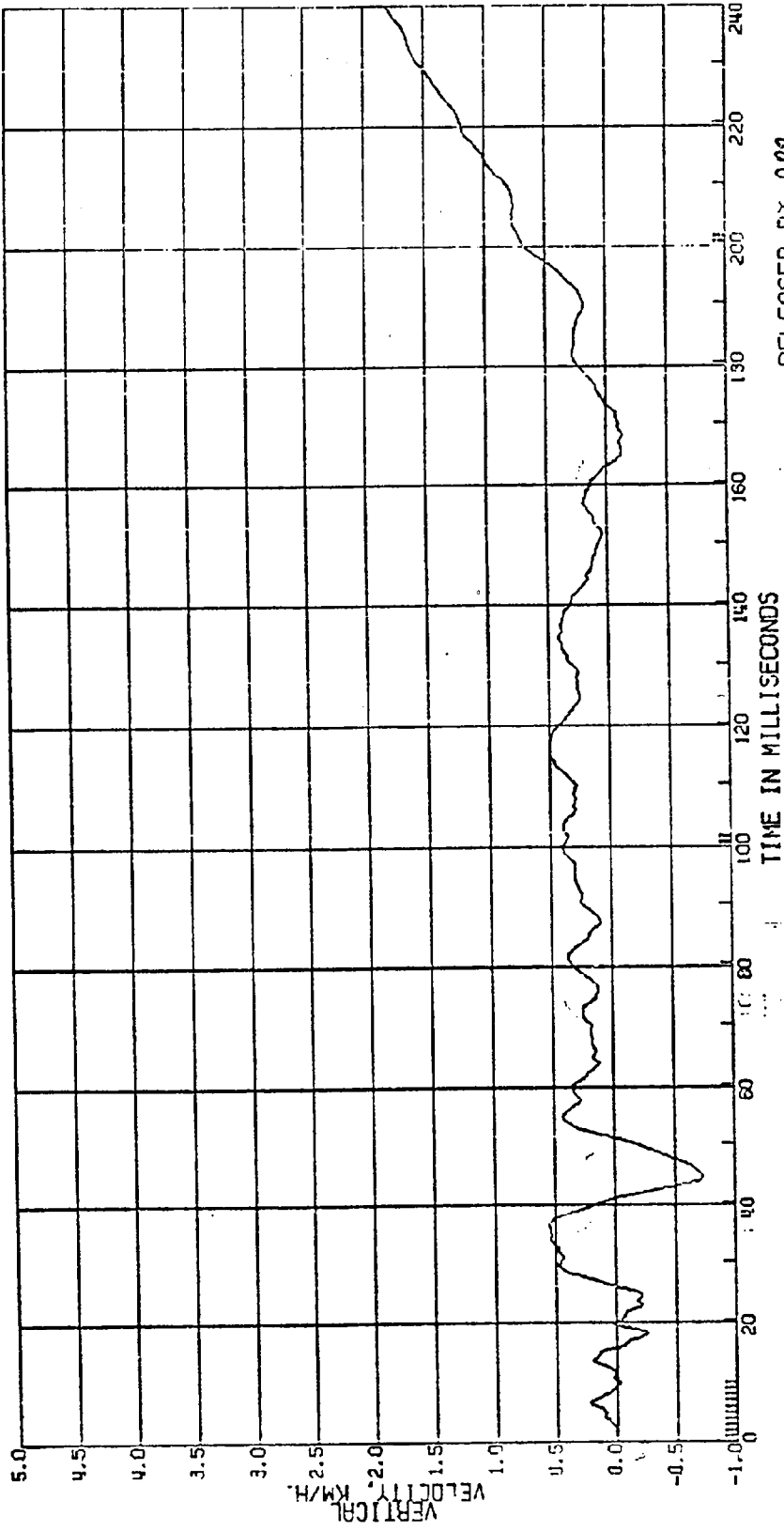
FISHER-CPC (STRIKER NHTSA BARR)

A-D DATA SAE CLASS 180

COMPUTED STRIKING BARR-MID VELOCITY

(1ST INTEGRAL DR-SIDE ACCELERATION)

TEST DATE: 04-11-85

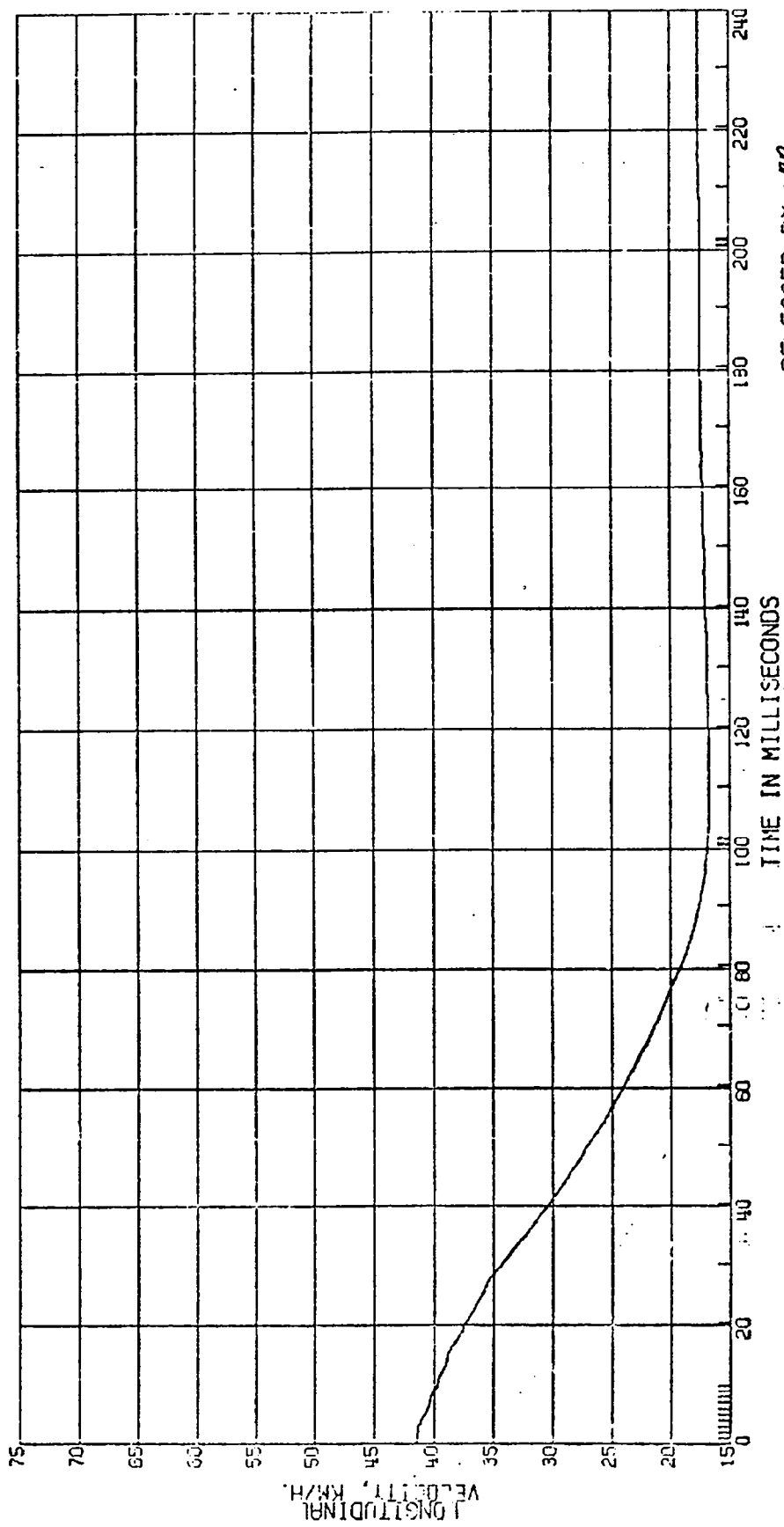


RELEASED BY: QPB
29 PROCESSED 12 APR 85 17:04

PC (STRIKER NUMBER) 111
DATA CLASS 180

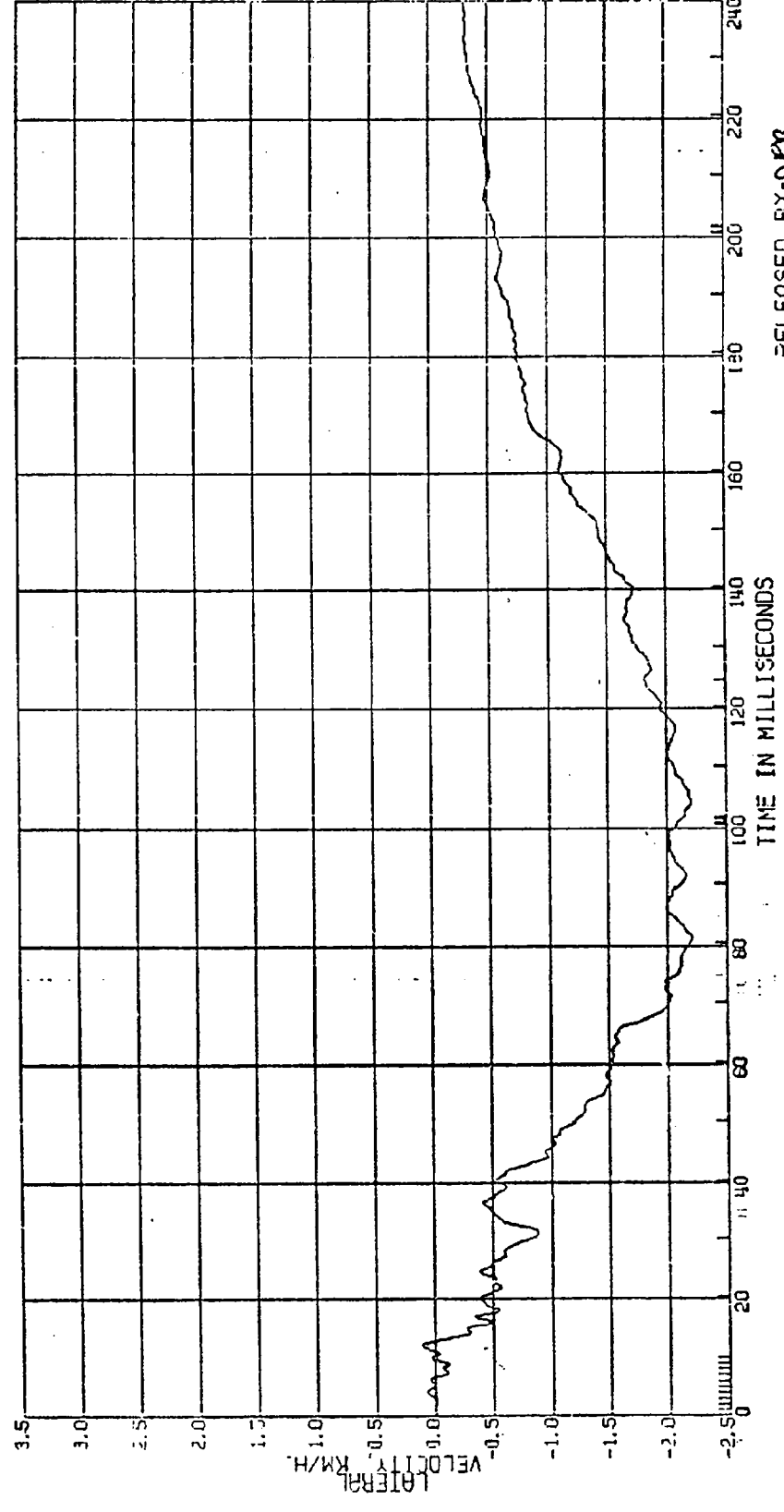
COMPUTED DURING DATA-111
(1ST INTEGRAL PASS-SIDE ACCELERATION)

TEST DATE: 04-11-85



RELEASED BY: RFB
32 PROCESSED 12 APR 85 17:04

FISHER-CPC(STRIKER NHTSA (BARI) COMPUTED STRIKING BARR-MID VELOCITY
A-0 OFTA SAE CLASS 180 (1ST INTEGRAL PASS-SIDE ACCELERATION) TEST DATE:04-11-85

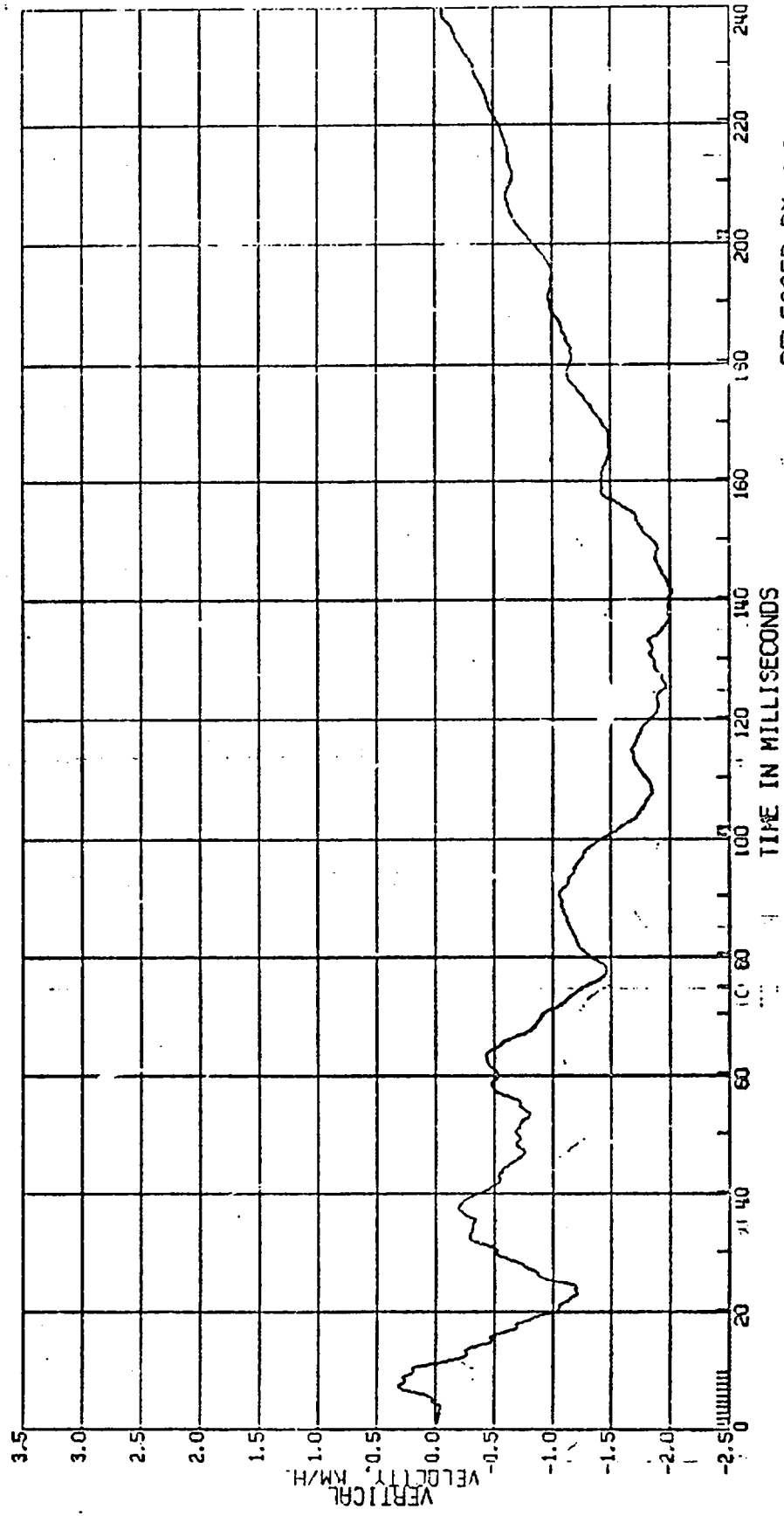


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35 PROCESSED 12 APR 85 17:05

FISHER-CPC (STRIKER NHTSA BARR) COMPUTED STRIKING BARR-MID VELOCITY
A-J DATA SAE CLASS 180 (1ST INTEGRAL PASS-SIDE ACCELERATION)

TEST DATE: 04-11-85

FISHER-CPC (STRIKER NHTSA BARR)
A-J DATA SAE CLASS 180

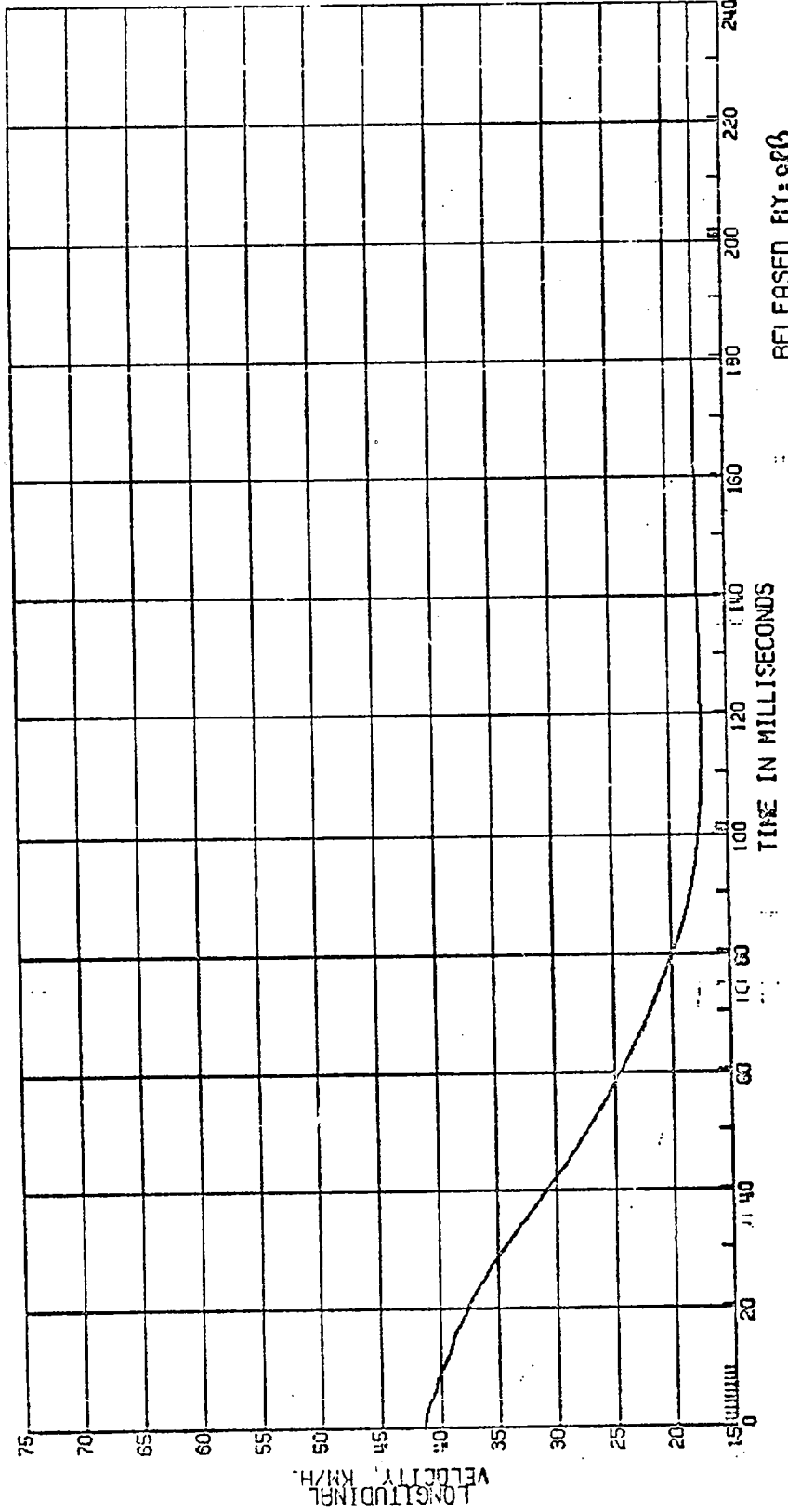


RELEASED BY: JTB
38 PROCESSED 12 APR 85 17:05

MOVING BARRIER TO PARKED VEHICLE @ 41.4 KM/H FIGURE 102
COMPUTED STRIKING BARR-MID VELOCITY
(1ST INTEGRAL AVERAGED ACCELERATION)

C61928 RIGHT SIDE IMPACT
3865-090
FISHER-CPC (STRIKER NHTSA BARR)
A-D DATA SAE CLASS 180

TEST DATE: 04-11-65



MOVING ORIGINALLY TO FORWARD VEHICLE 1 41.44M/P FIDUCIAL 102

1865-C90

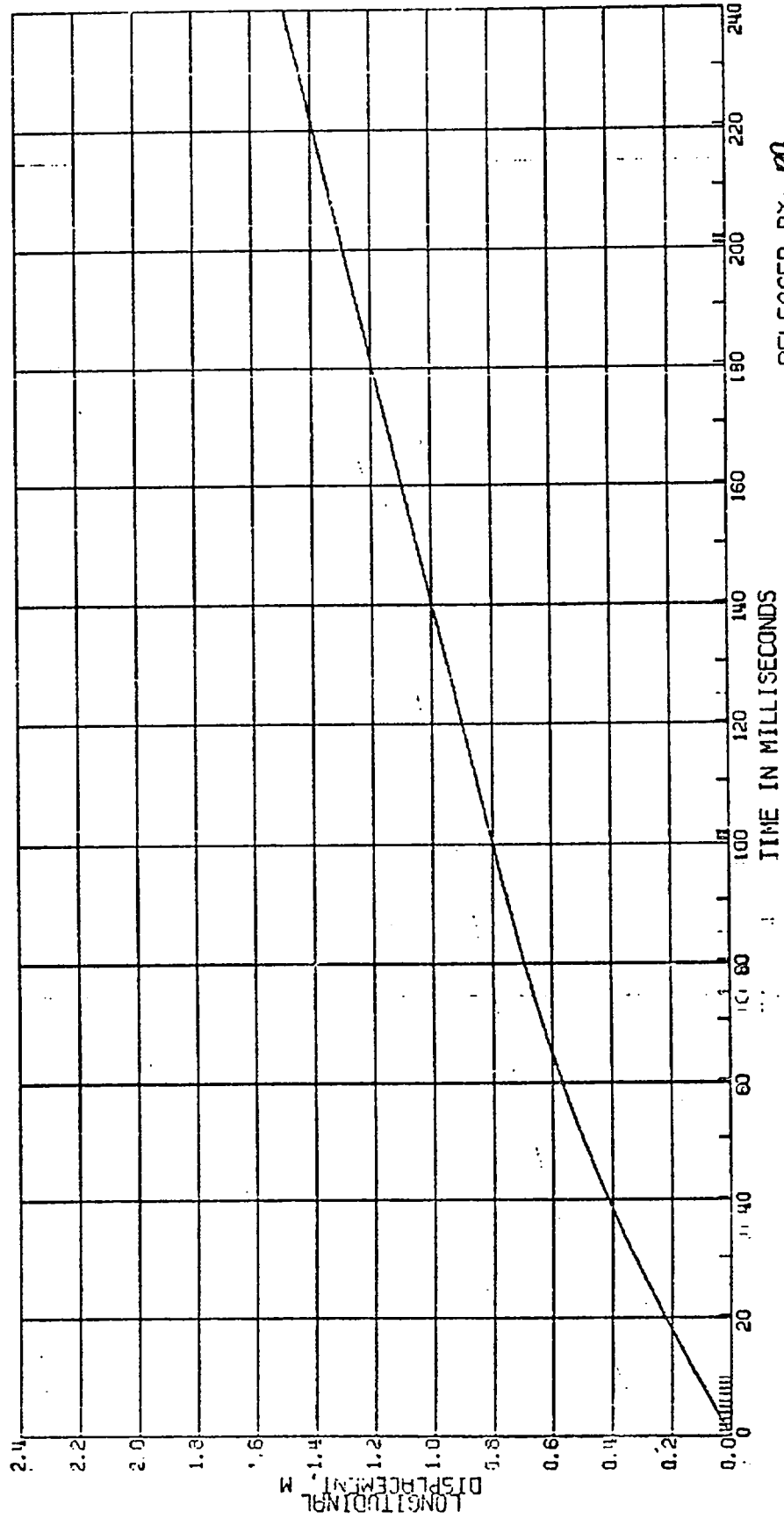
STRIKER NHTSA (BARR)

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COMPUTED STRIKING BARR-MID DISPLACEMENT

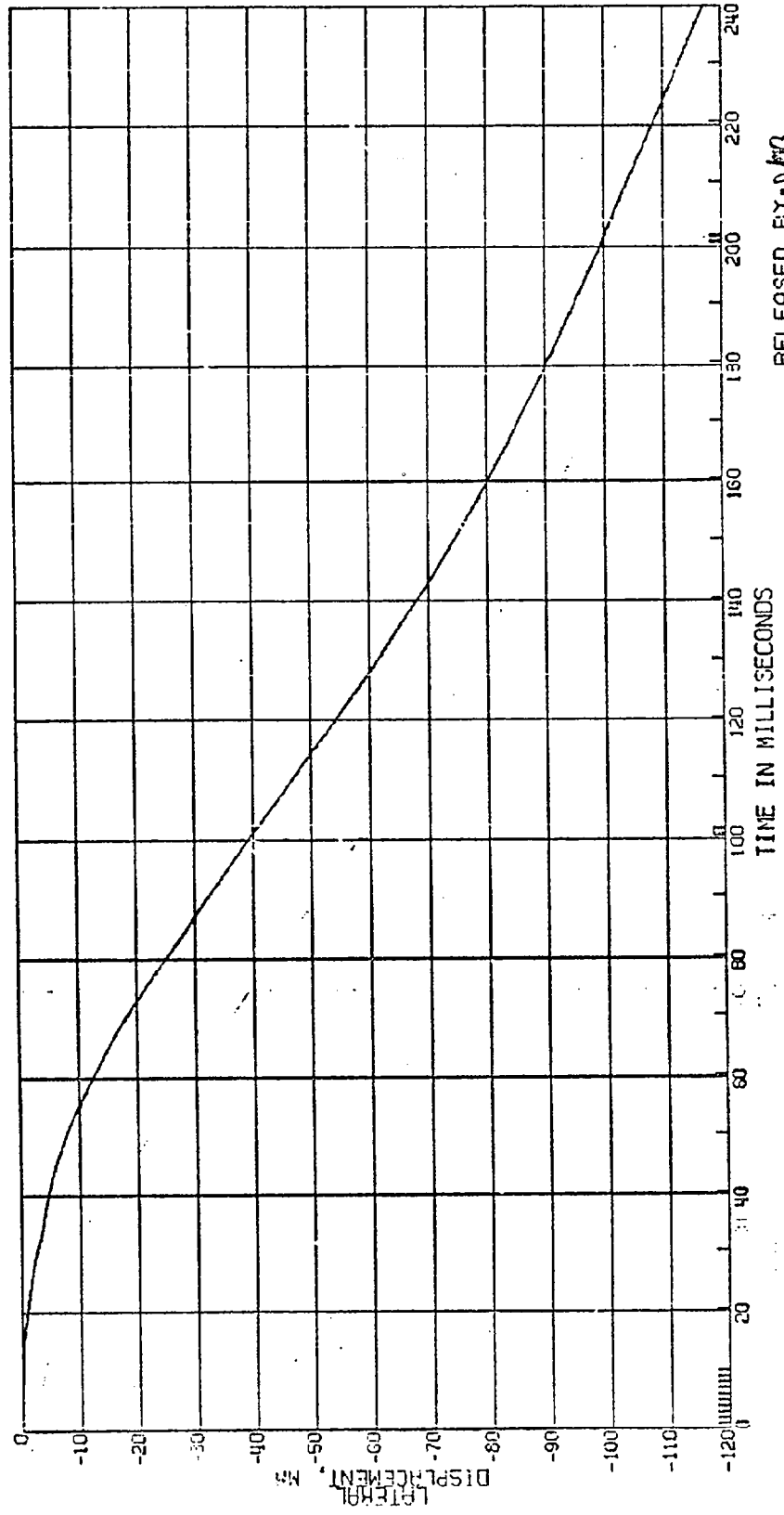
TEST DATE: 04-11-85

(2ND INTEGRAL DR-SIDE ACCELERATION)



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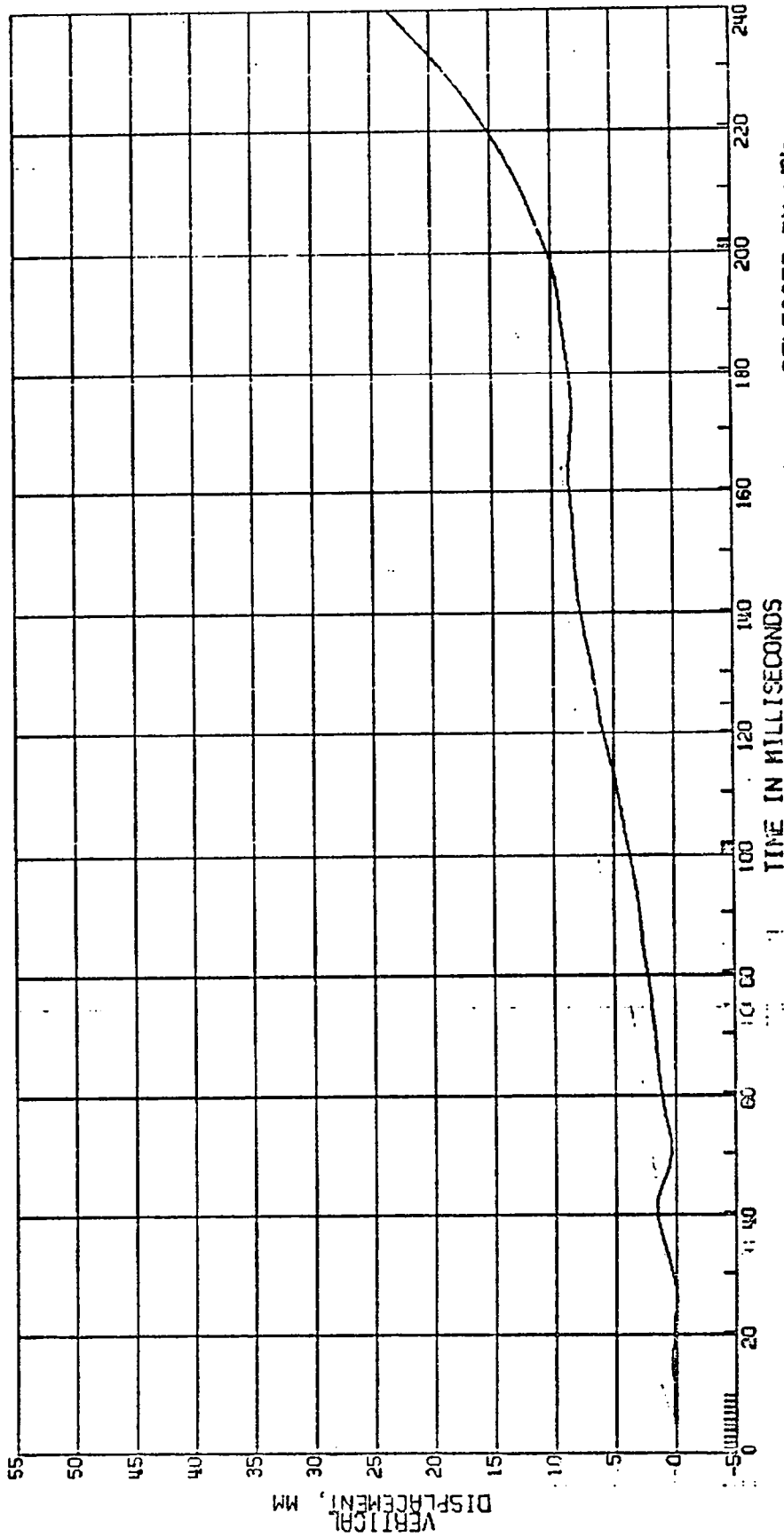
U61426 HIGH SIDE IMPACT MOVING BARRIER TO PARKED VEHICLE @ 41.4KM/H FIGURE 104
 3005-C90
 FISHER-CPC (STRIKER NHTSA BARR) COMPUTED STRIKING BARR-MID DISPLACEMENT TEST DATE: 04-11-85
 A-D DPTH SAE CLASS 180 (2ND INTEGRAL DR-SIDE ACCELERATION)



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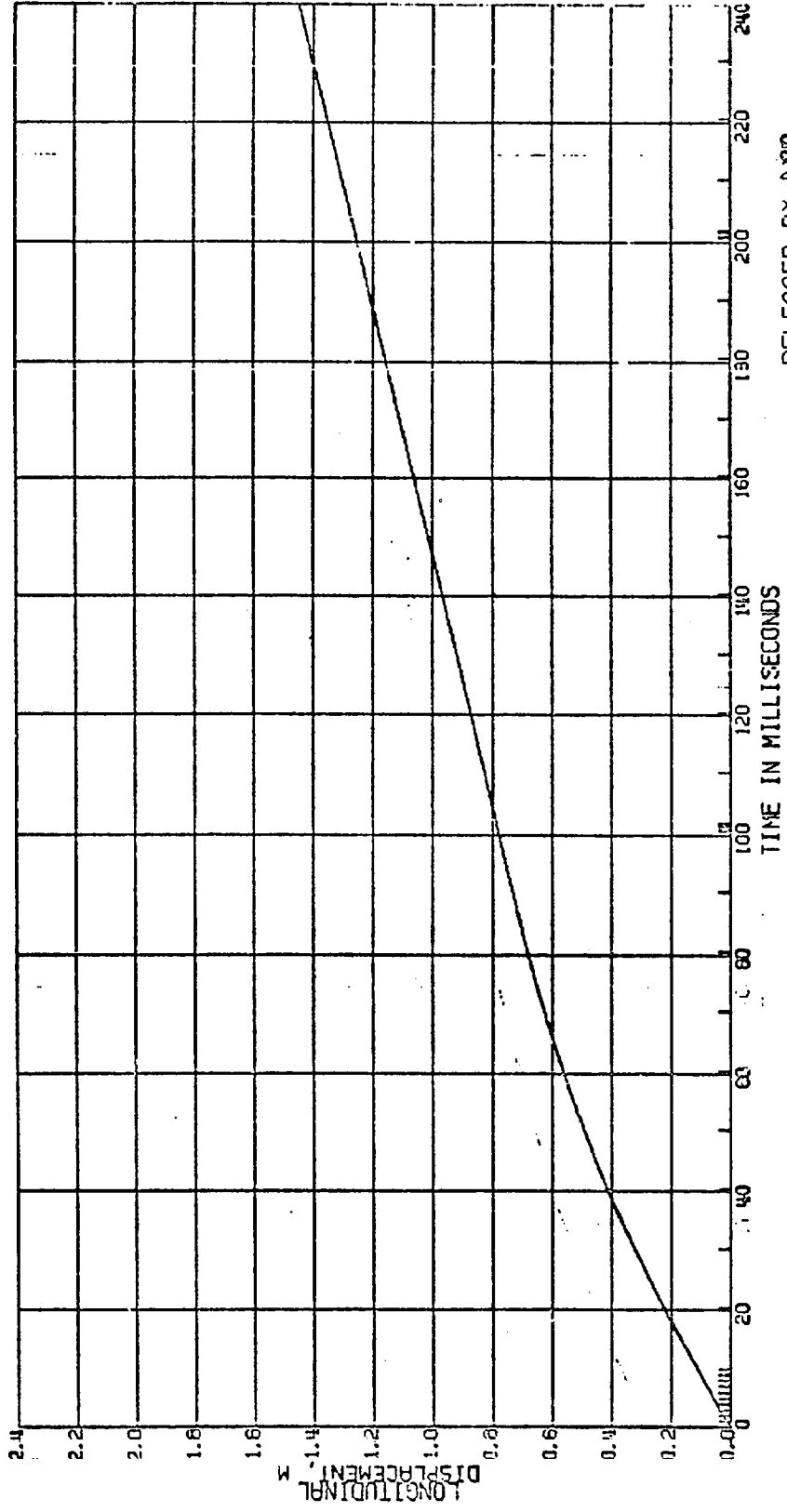
TEST DATE: 04-11-95

COMPUTED STRIKING BARR-MID DISPLACEMENT
R-D DATA SAE CLASS 180 (2ND INTEGRAL DR-SIDE ACCELERATION)



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30 PROCESSED 12 APR 95 17:04

3965-C90
FISHER-CPC (STRIKER NHTSA (BARR)) COMPUTED STRIKING BARR-MID DISPLACEMENT TEST DATE: 04-11-85
A-D DATA SAE CLASS 180 (2ND INTEGRAL PASS-SIDE ACCELERATION)

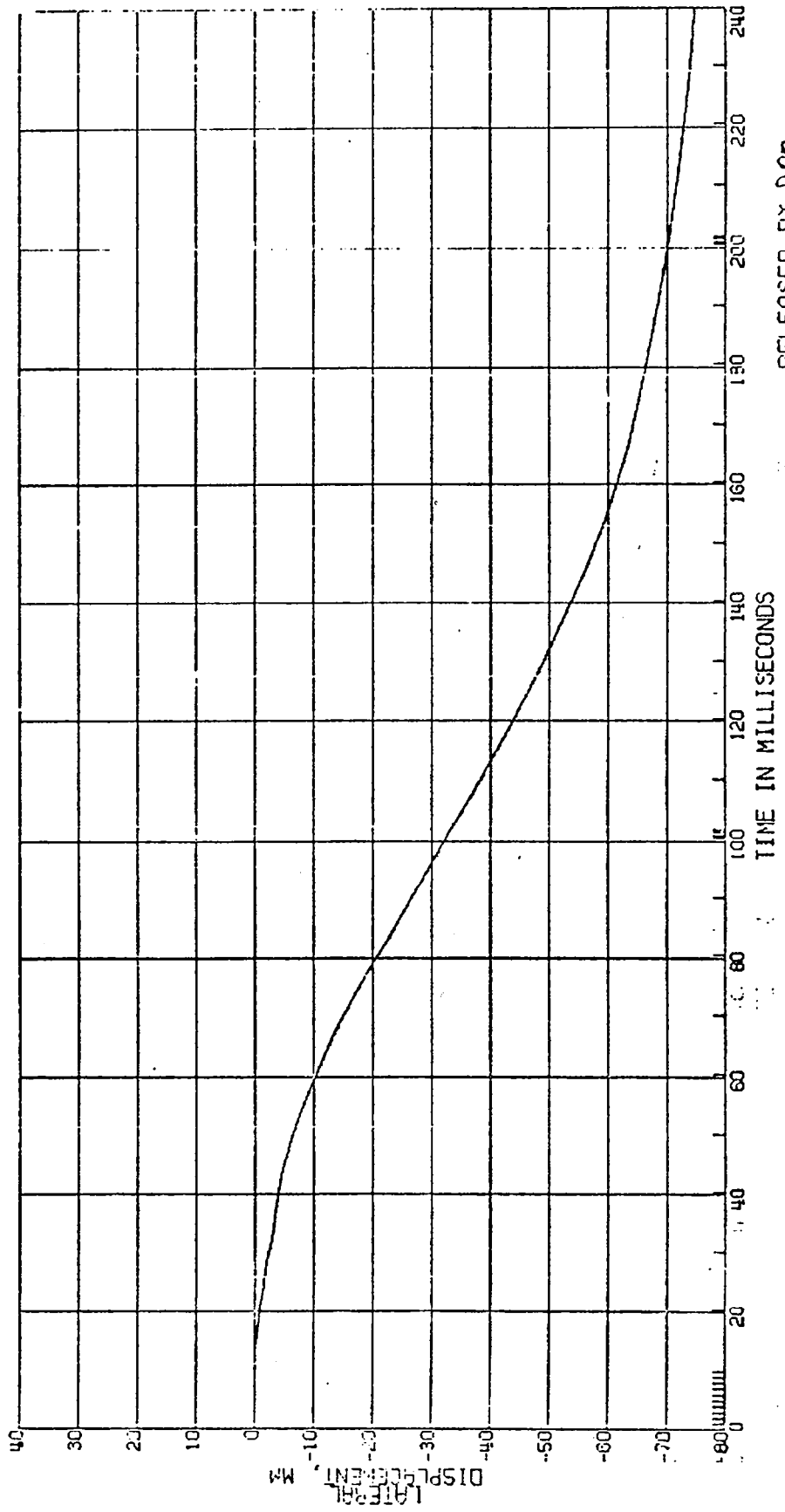


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COMPUTED STRIKING BARR-MID DISPLACEMENT
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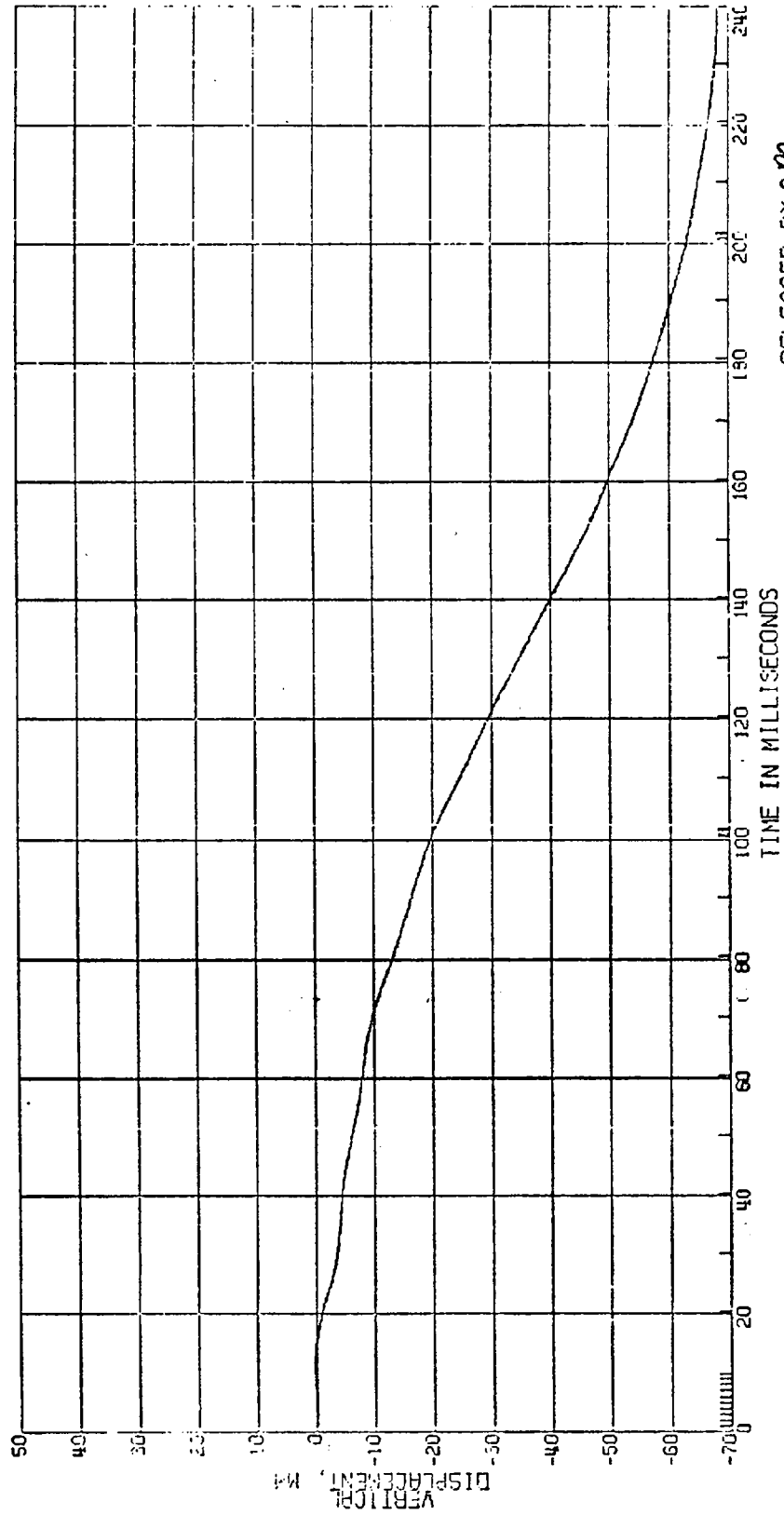
TEST DATE: 08-11-85

STRIKER NHTSA BARR
 AND DATA ONE CLASS 180



RELEASED BY: *SPB*
 36 PROCESSED 12 APR 85 17:05

3865-C90
P13REF-CPC (STRIKER NHTSA BARR)
R-3 DATA SAE CLASS 180
TEST DATE: 04-11-85
COMPUTED STRIKING BARR-MID DISPLACEMENT
(2ND INTEGRAL PASS-SIDE ACCELERATION)



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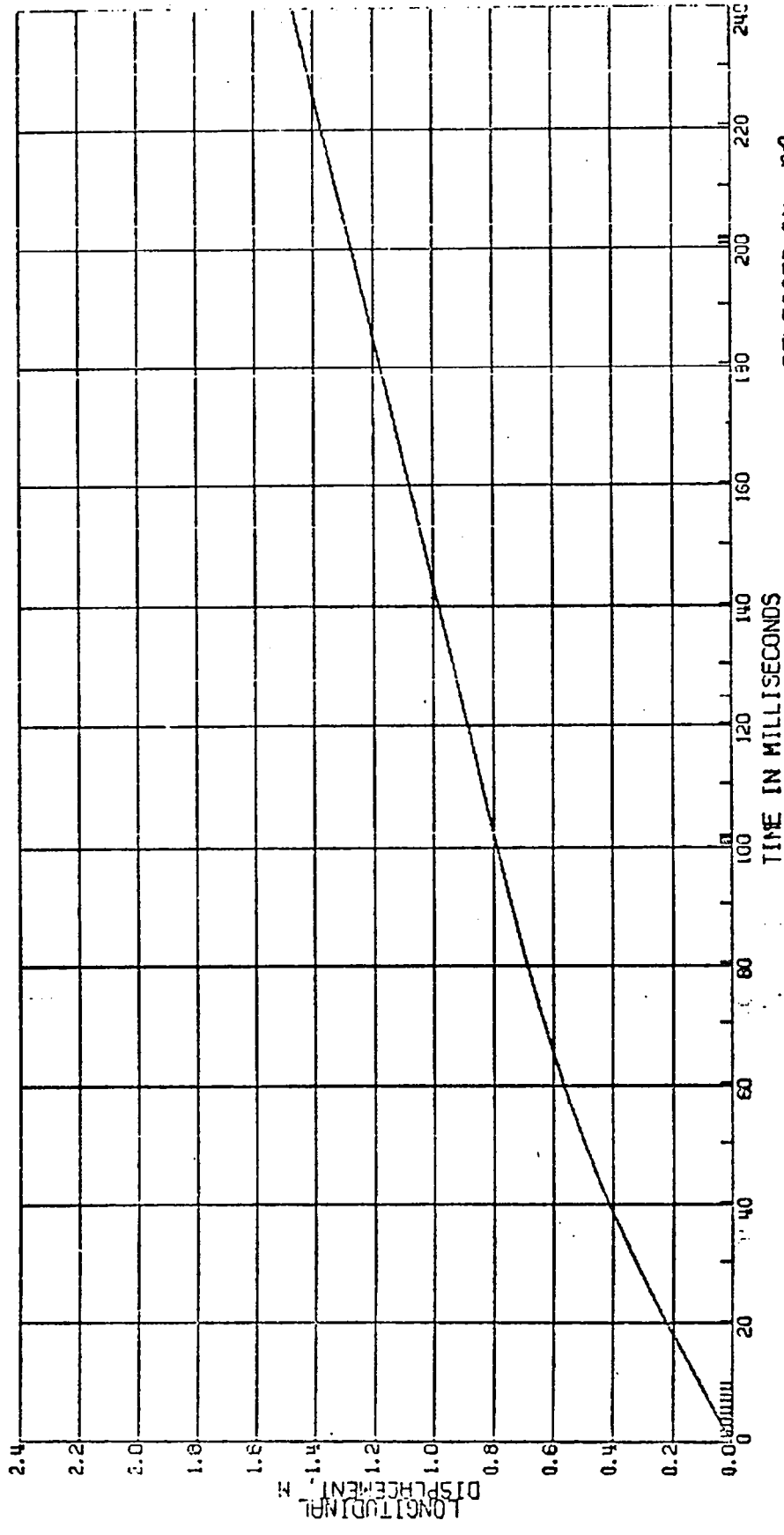
FISHER-CPC (STALKEA NHTSA BARR)

R-0 DATA SRE 02-55 160

COMPUTED STRIKING BARR-MID DISPLACEMENT

TEST DATE: 04-11-65

(2ND INTEGRAL AVERAGED ACCELERATION)



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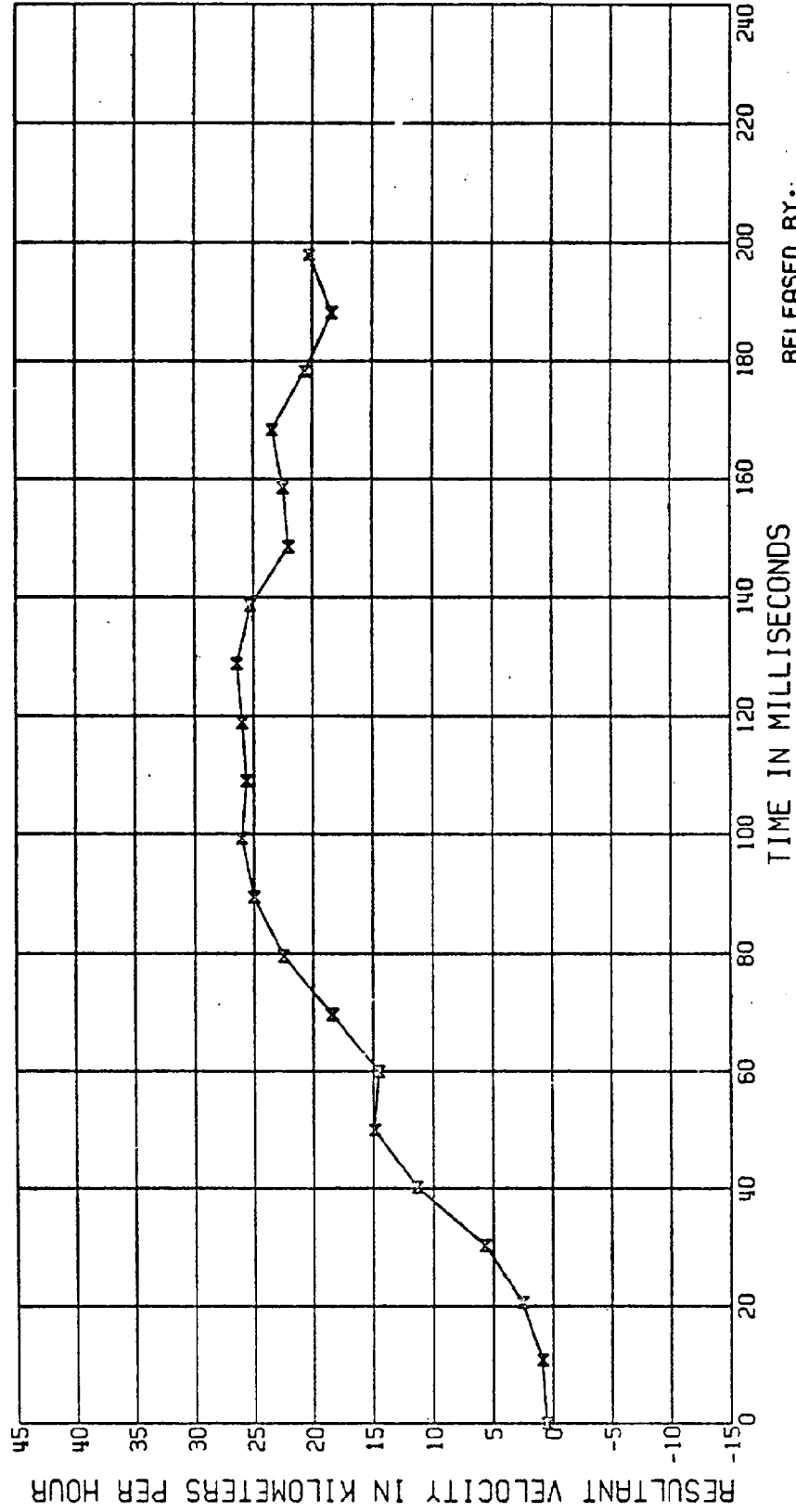
FISHER CPC CC452 3JC77 STRUCK
FILM DATA

OVERHEAD VIEW

TEST DATE: 04-11-85

VELOCITY CALCULATED FROM SMOOTHED X-Z RESULTANT DISP. DATA

STRUCK VEHICLE RELATIVE TO GROUND REFERENCE



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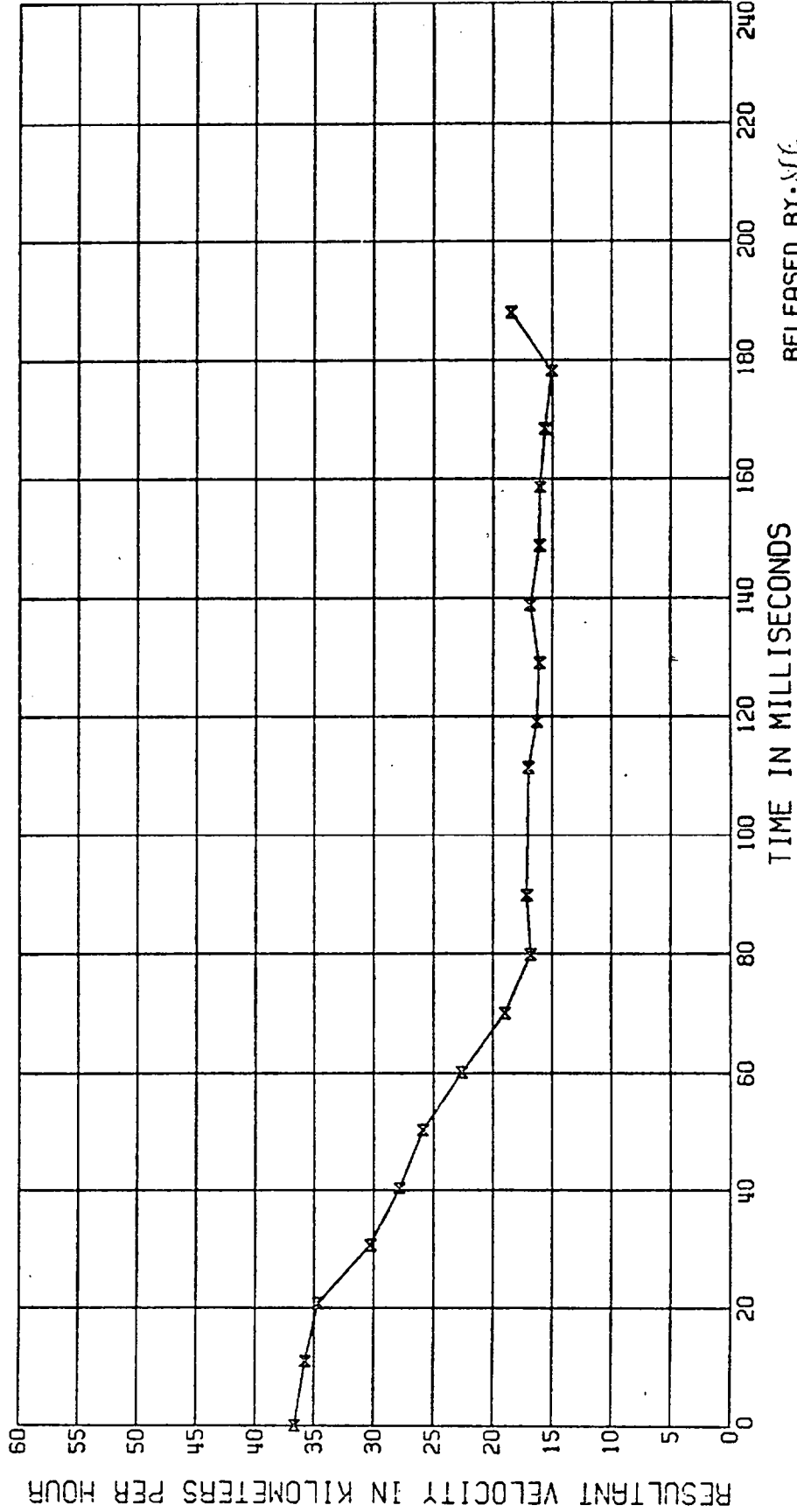
FISHER CPC CC452 3JC77 STRUCK
FILM DATA

OVERHEAD VIEW

TEST DATE: 04-11-85

VELOCITY CALCULATED FROM SMOOTHED X-Z RESULTANT DISP. DATA

STRIKING BARRIER RELATIVE TO GROUND REFERENCE



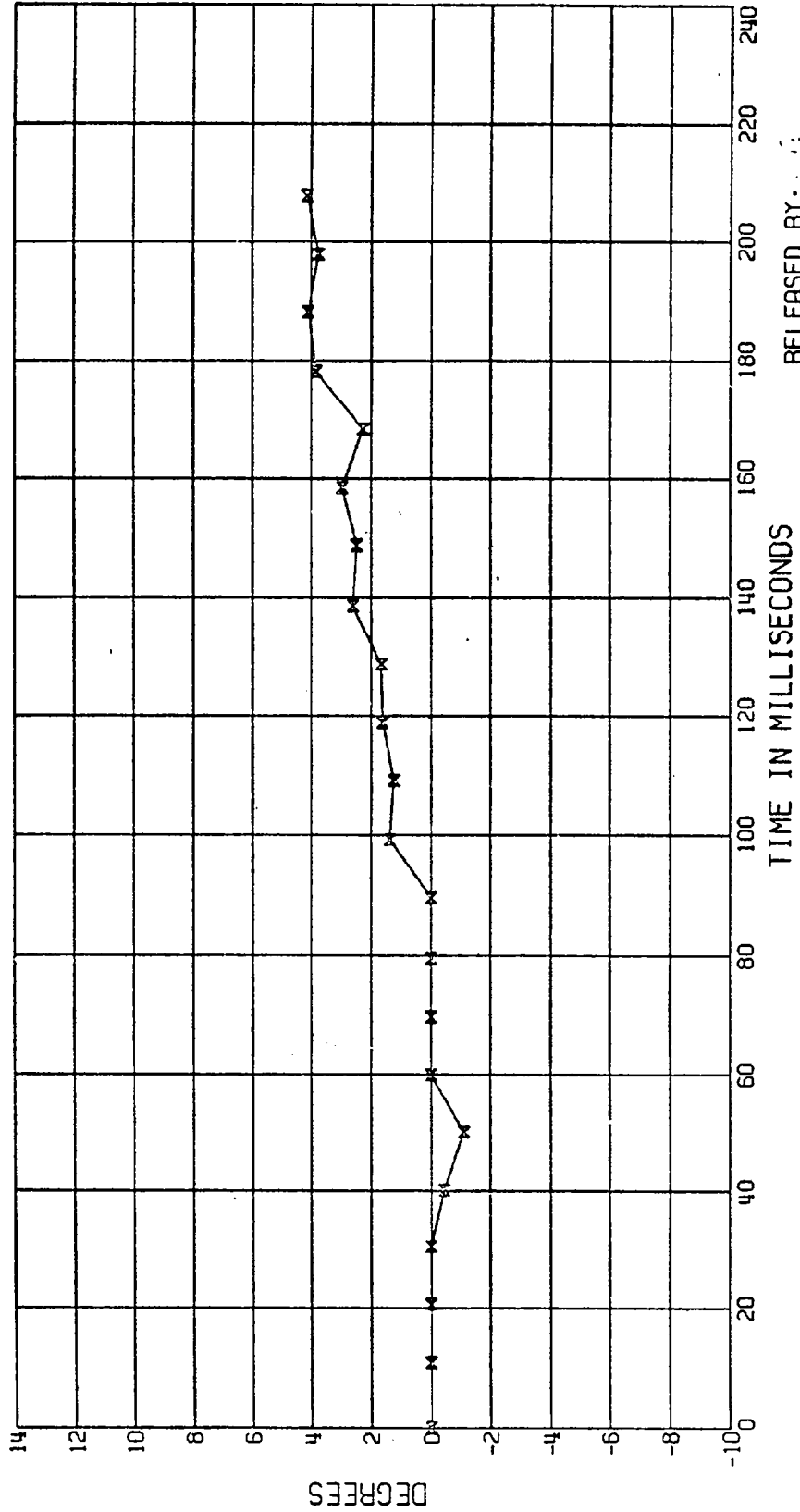
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OVERHEAD VIEW

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STRUCK VEH YAW RELATIVE TO GROUND REFERENCE



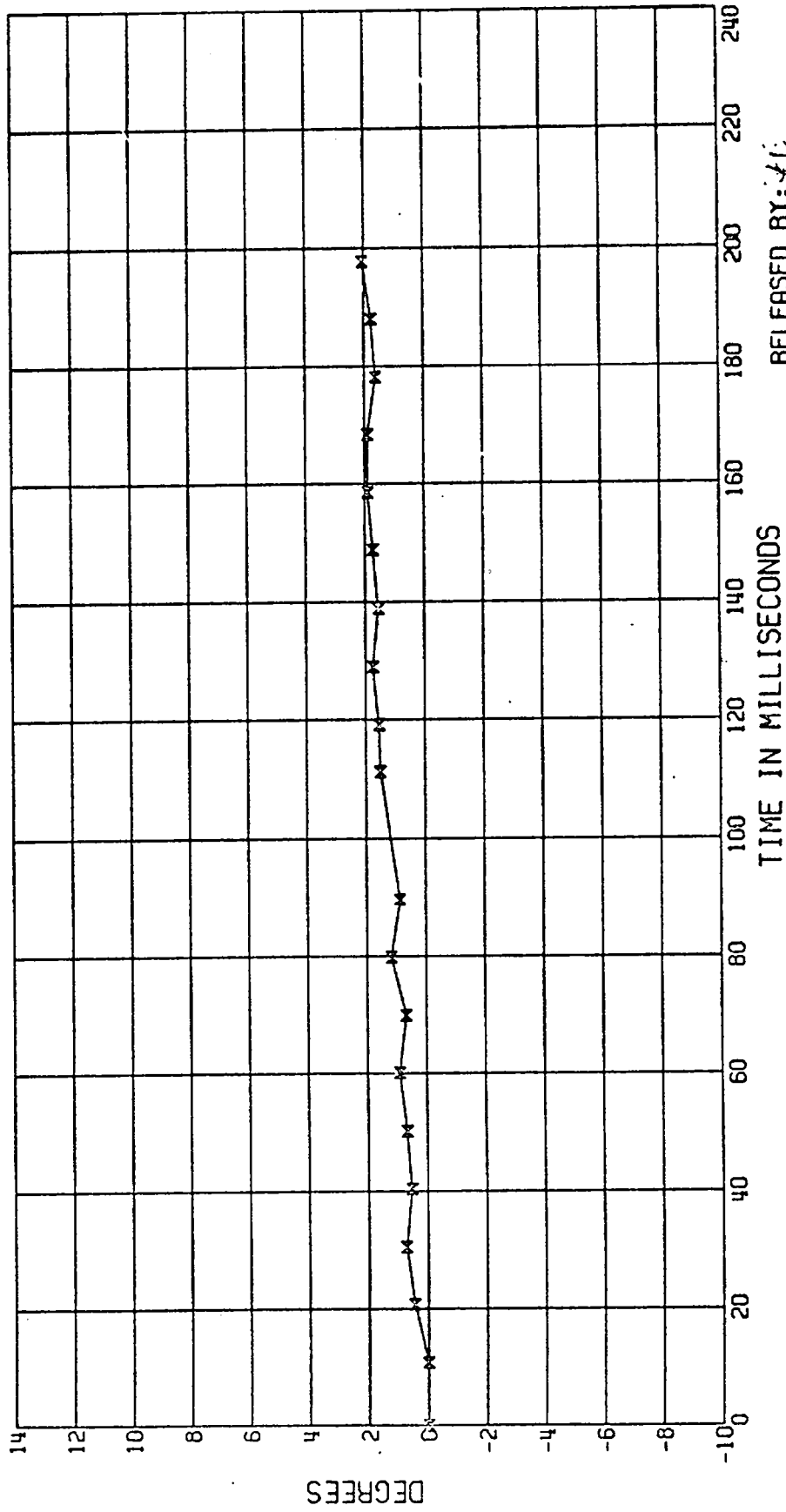
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STRIKING BARR YAW RELATIVE TO GROUND REFERENCE



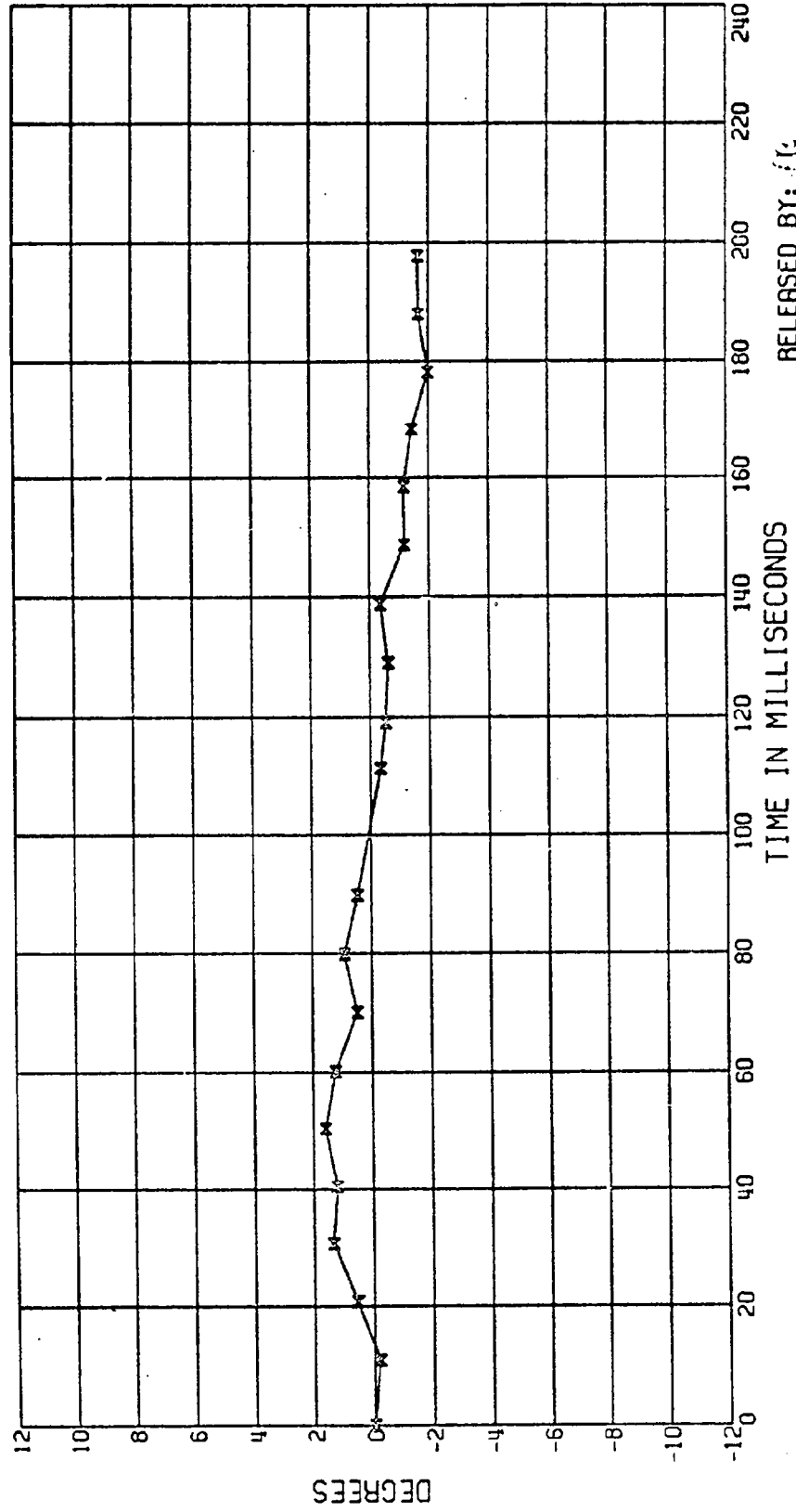
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OVERHEAD VIEW

TEST DATE: 04-11-85

STRIKING BARR YAW RELATIVE TO STRUCK VEH YAW



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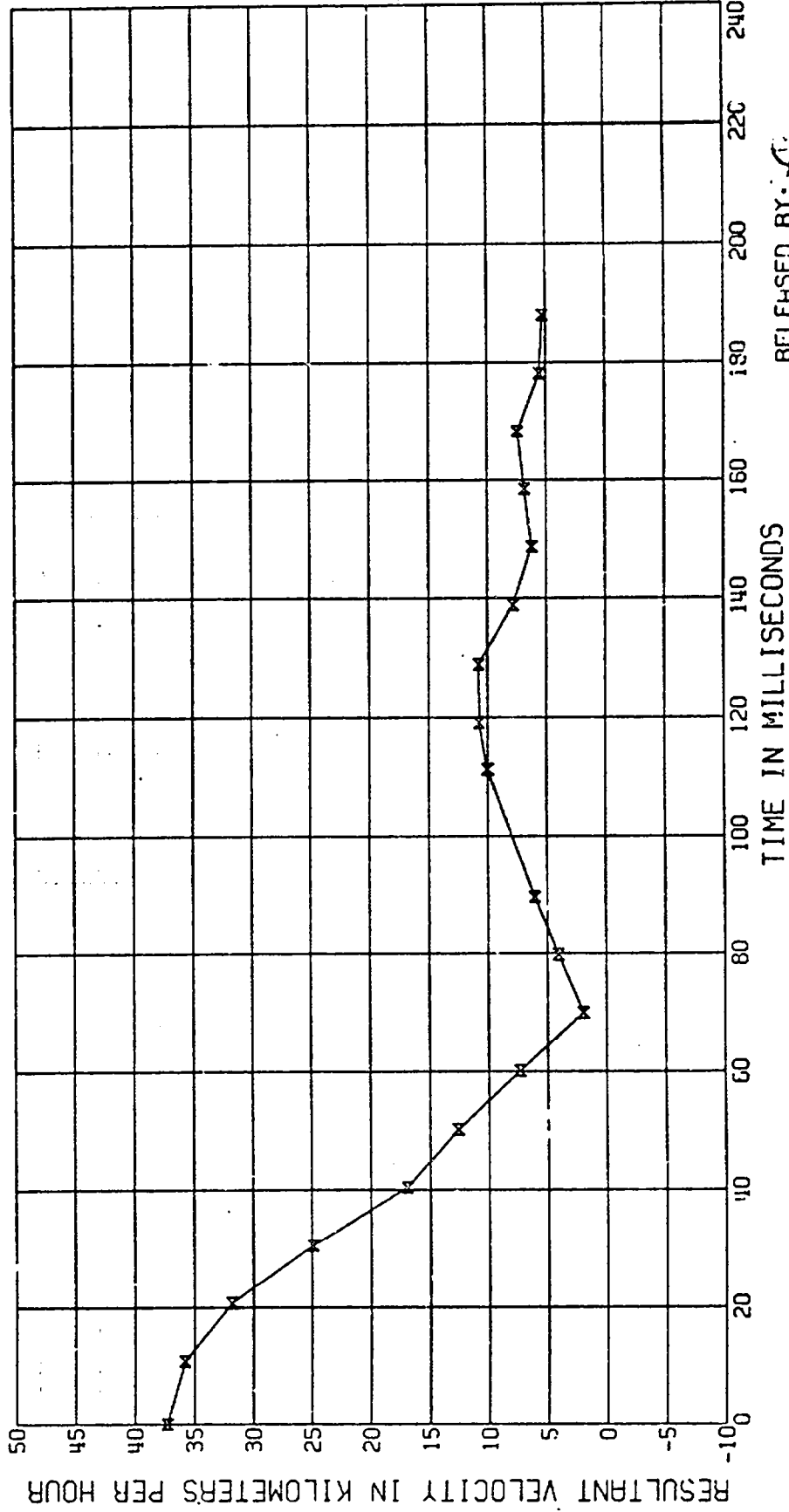
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FILM DATA

OVERHEAD VIEW

TEST DATE: 04-11-85

VELOCITY CALCULATED FROM SMOOTHED X-Z RESULTANT DISP. DATA

STRUCK VEHICLE RELATIVE TO STRIKING BARRIER



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7 PROCESSED 16 APR 85 08:18

3665-090

INFORMATION CONCERNING THE STRUCK VEHICLE 41.4MM/M

FIGURE 16

3665-090

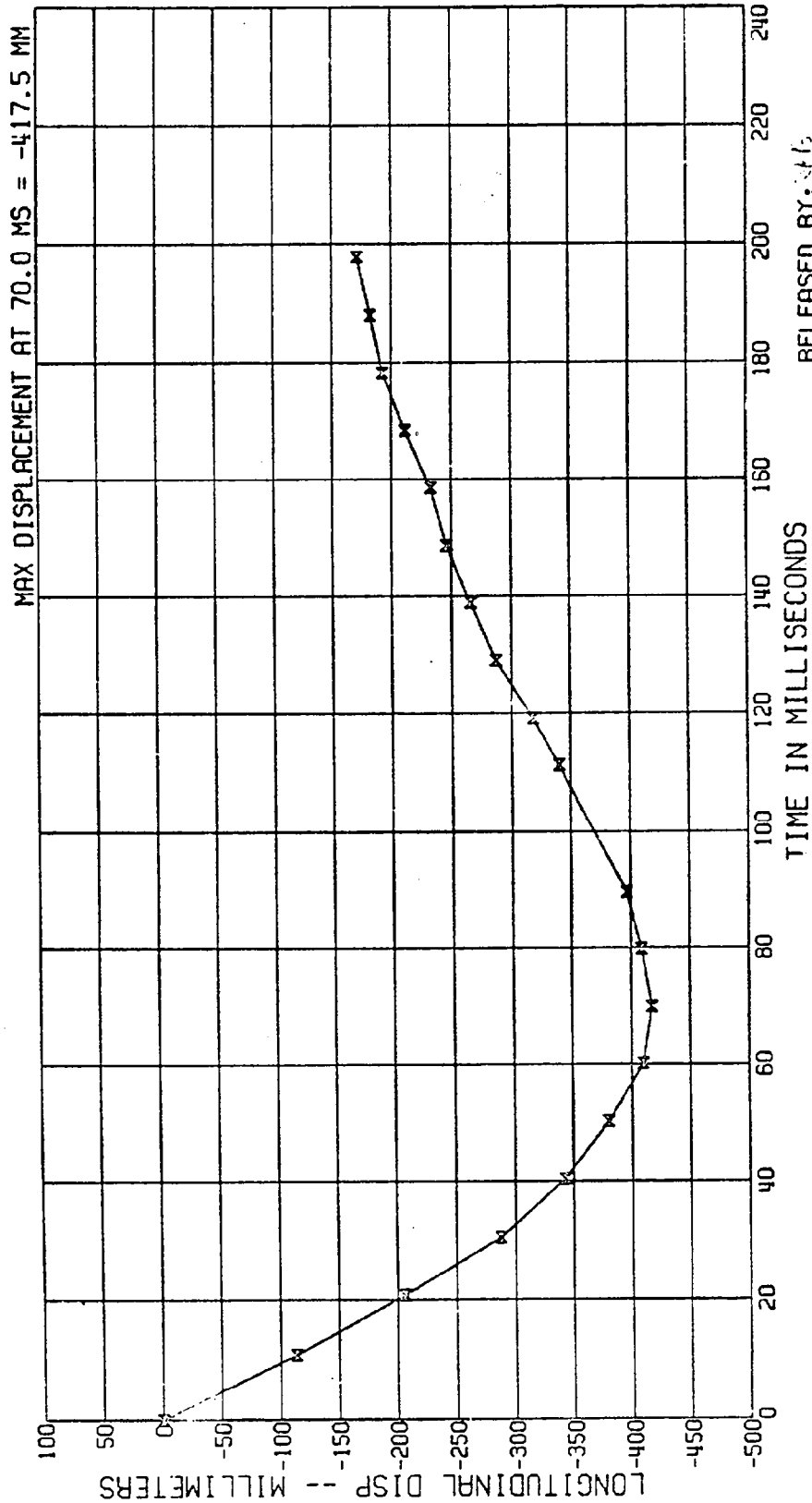
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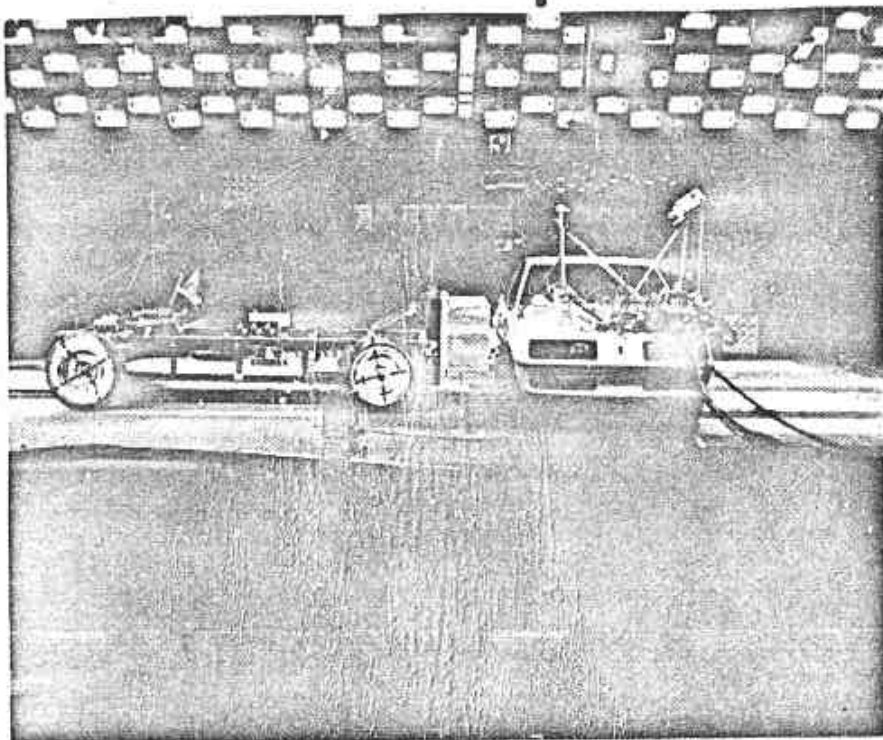
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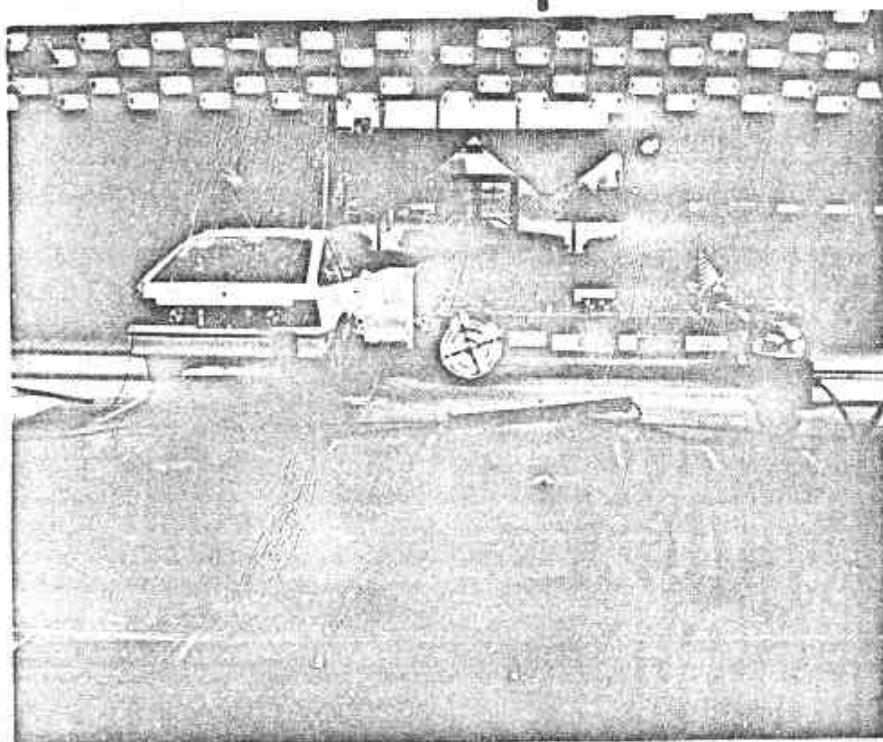
STRUCK VEHICLE RELATIVE TO STRIKING BARRIER



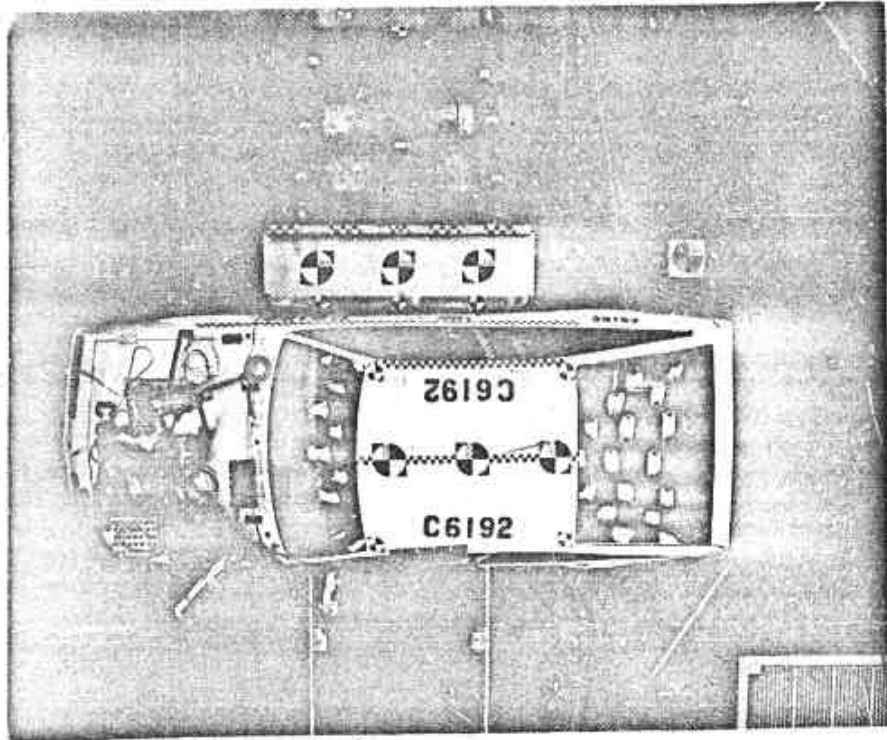
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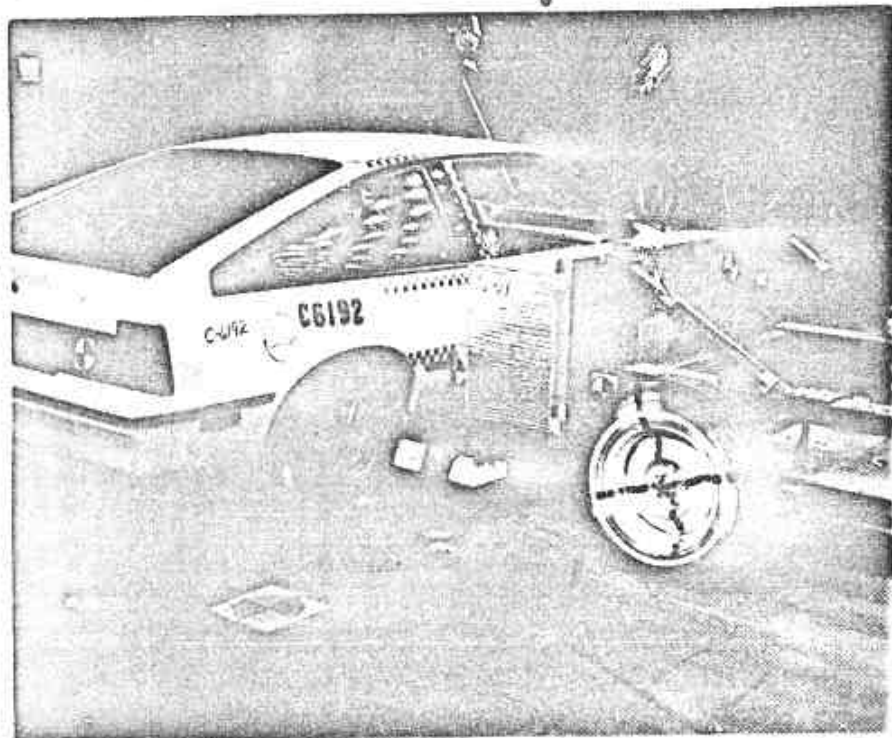
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99	117



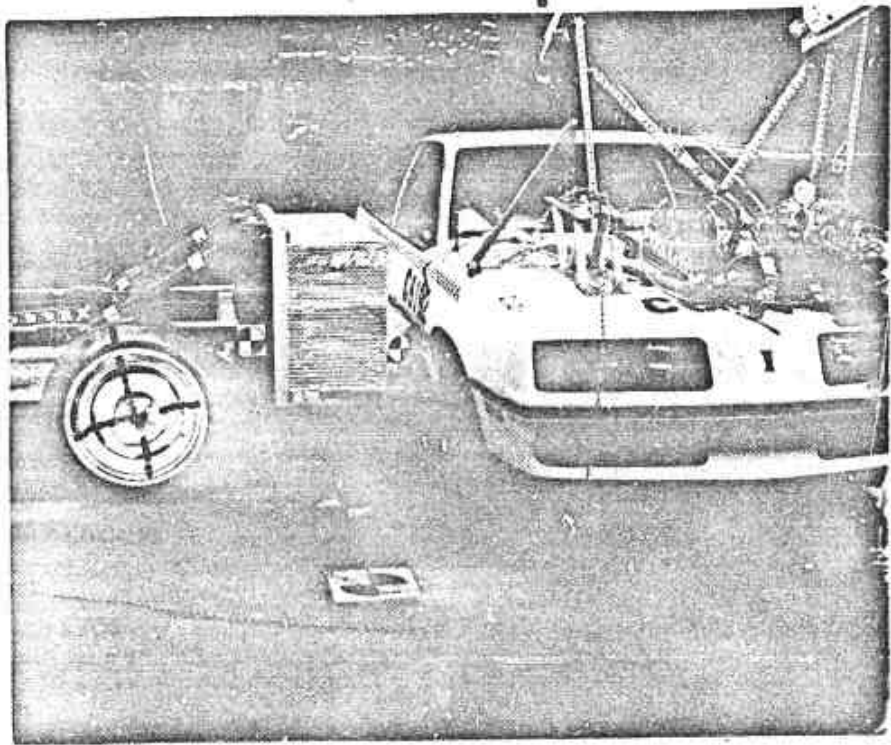
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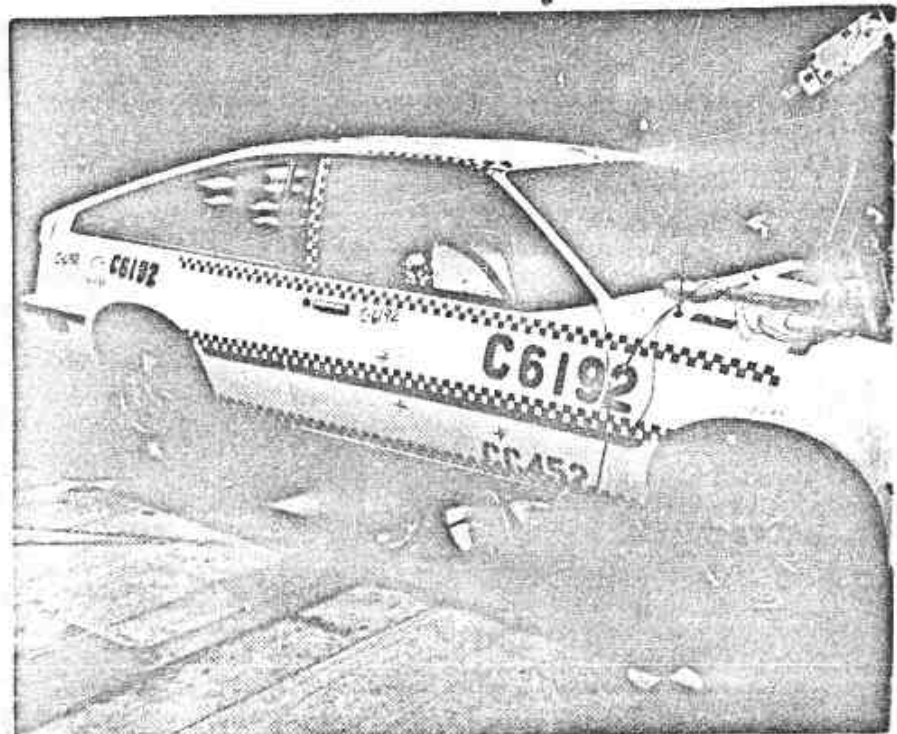
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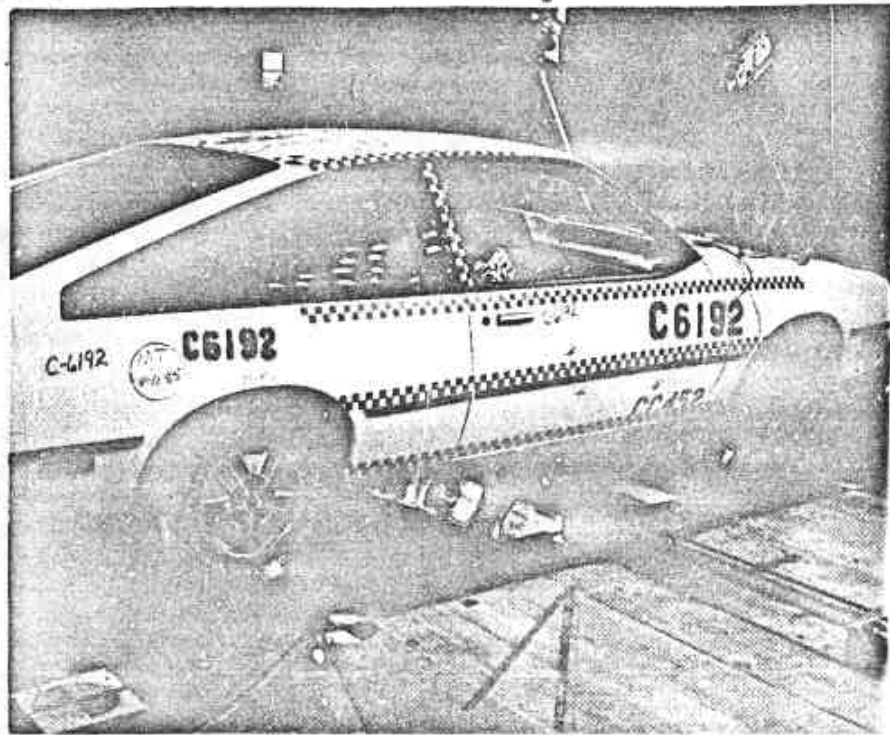
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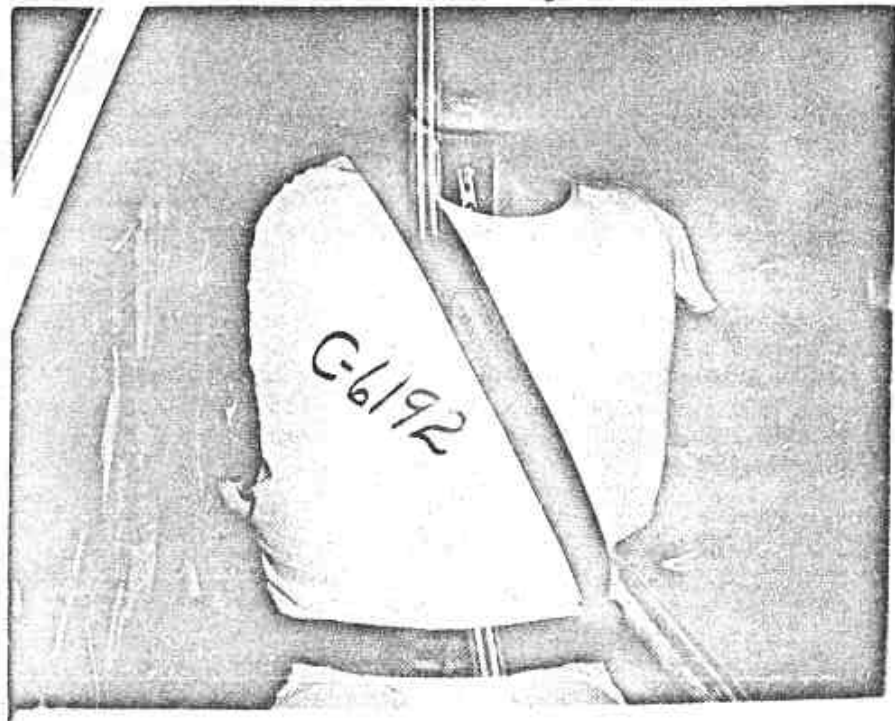
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99	122



ent	Fig. No.
99	123



ent	Fig. No.
99	124

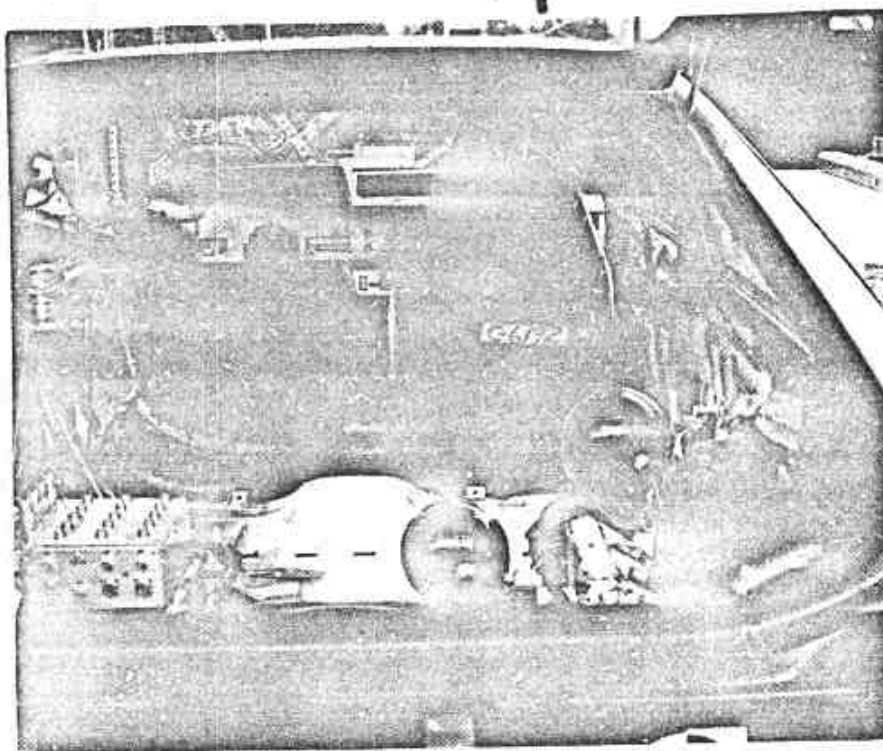


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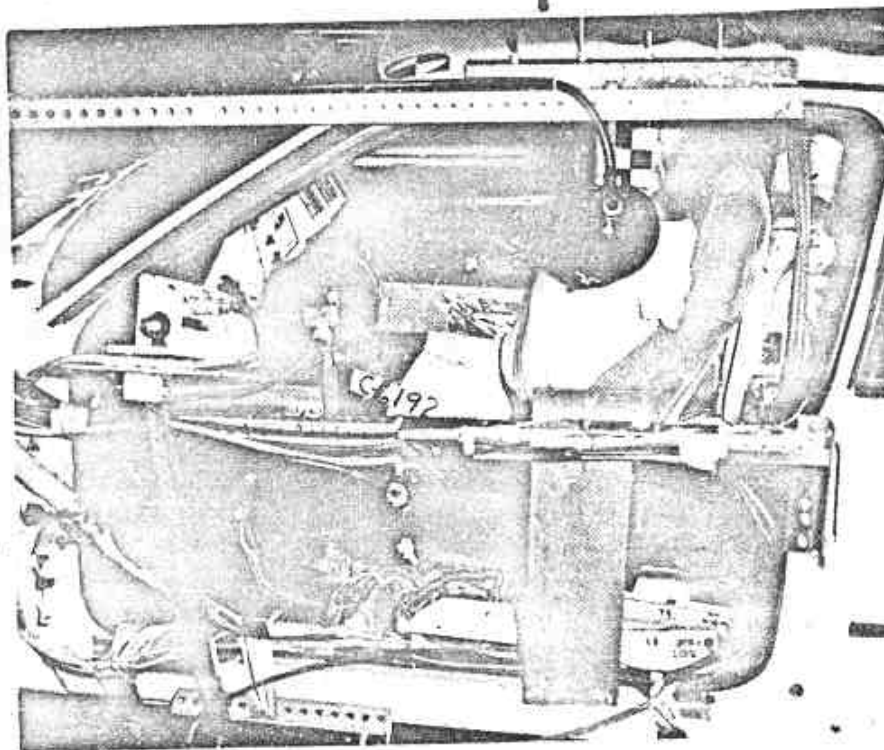
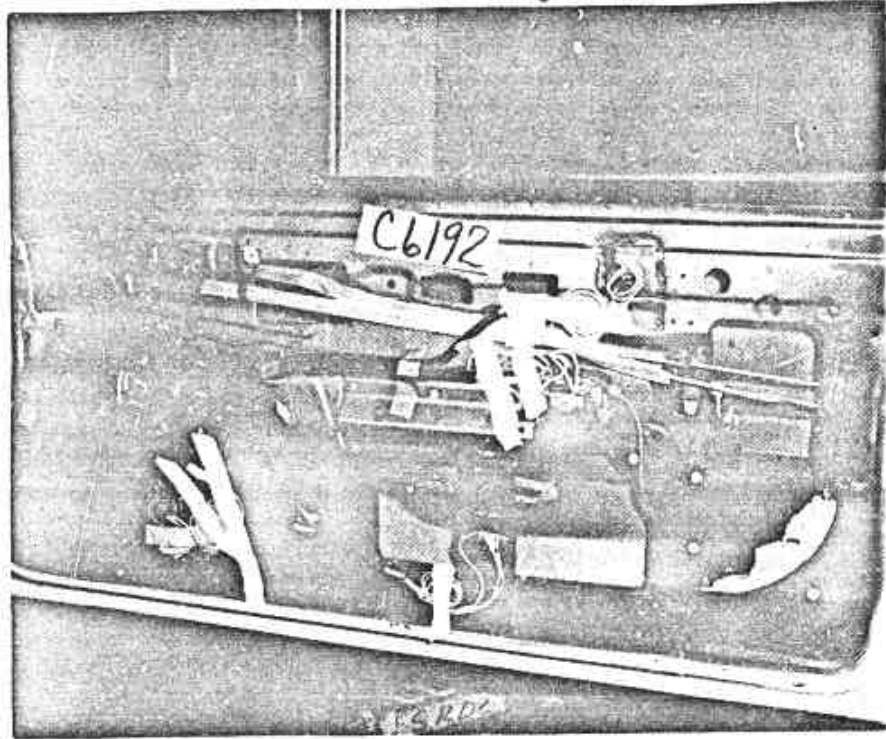
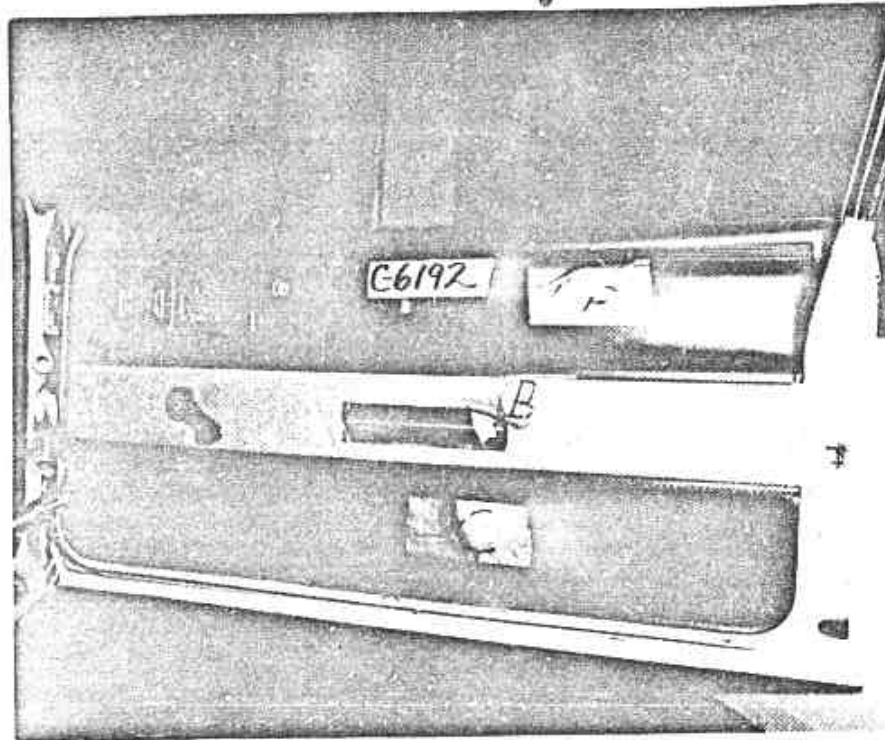


Fig.	No.
9	126



i	Fig. No.
9	127



ii	Fig. No.
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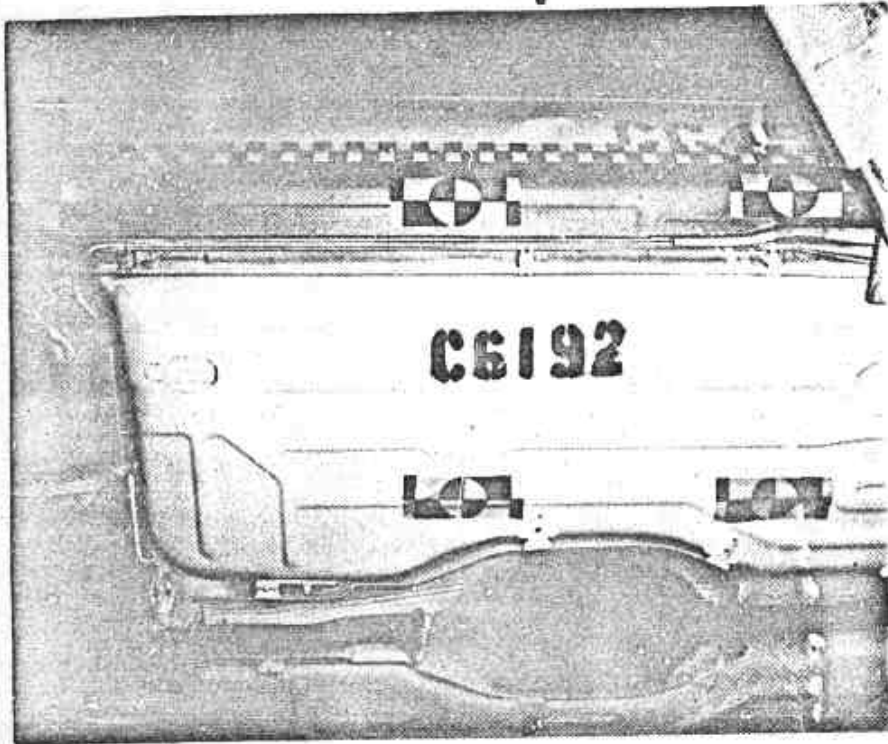


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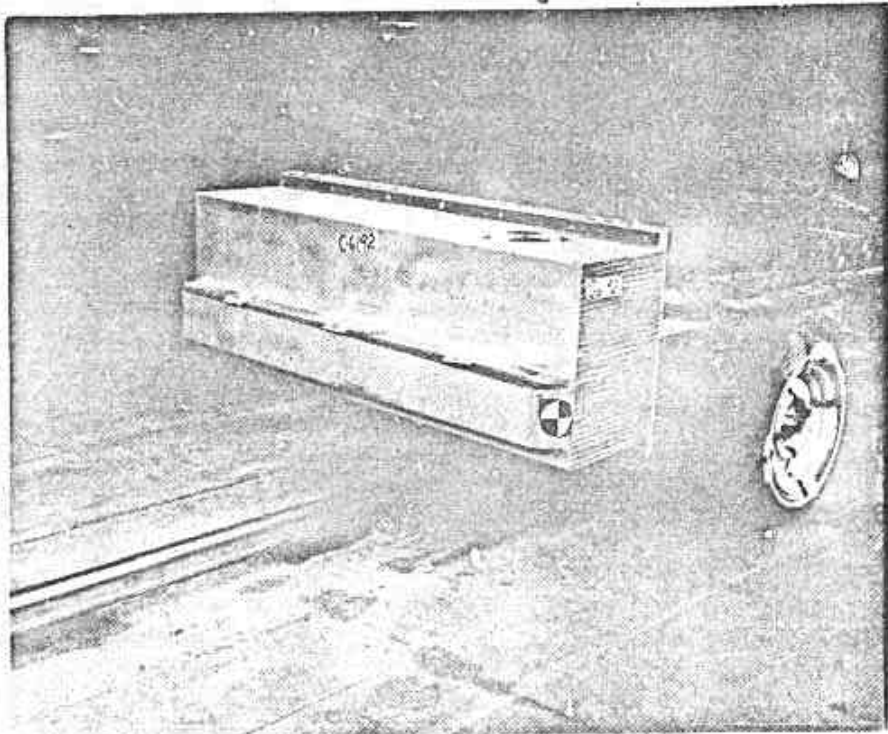


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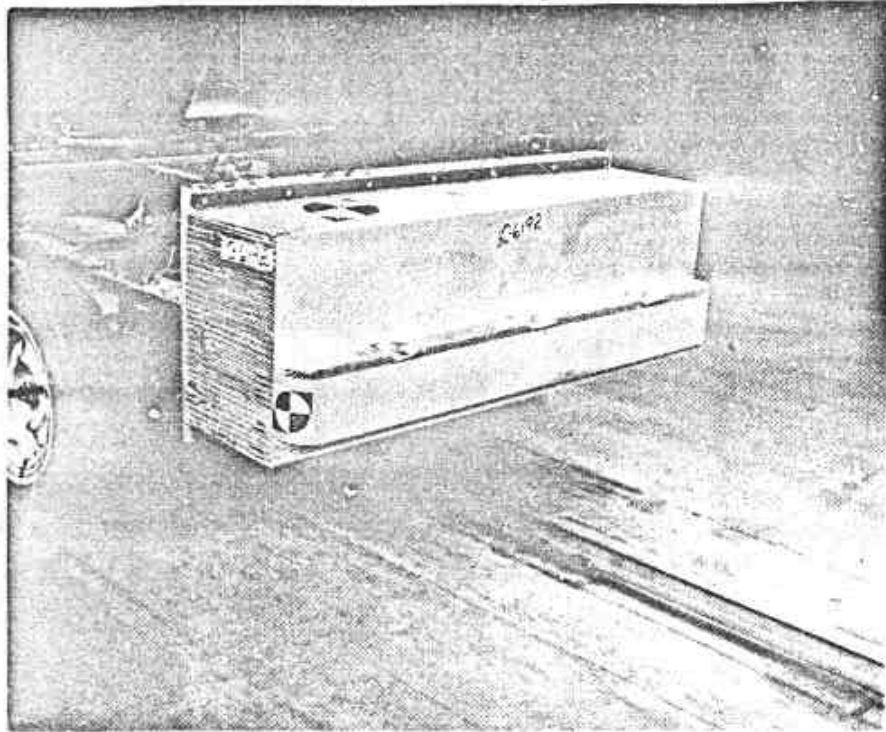


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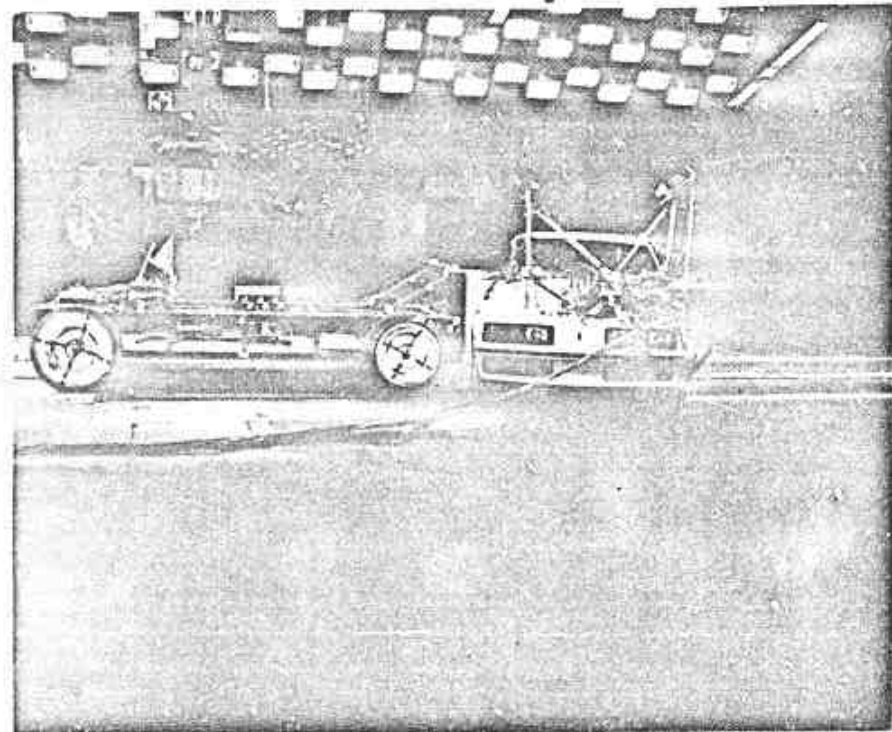


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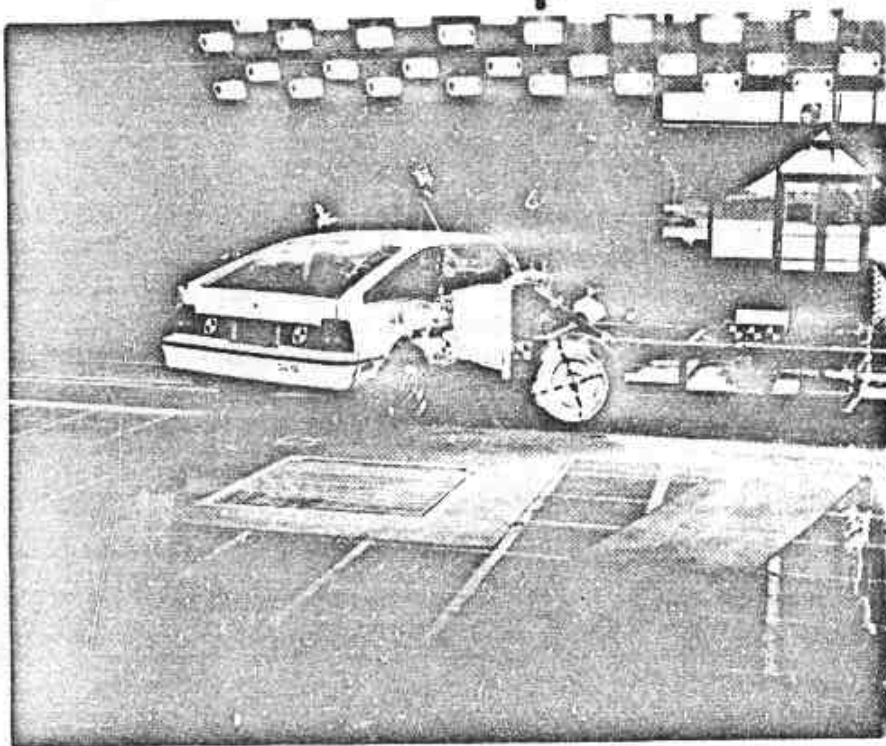


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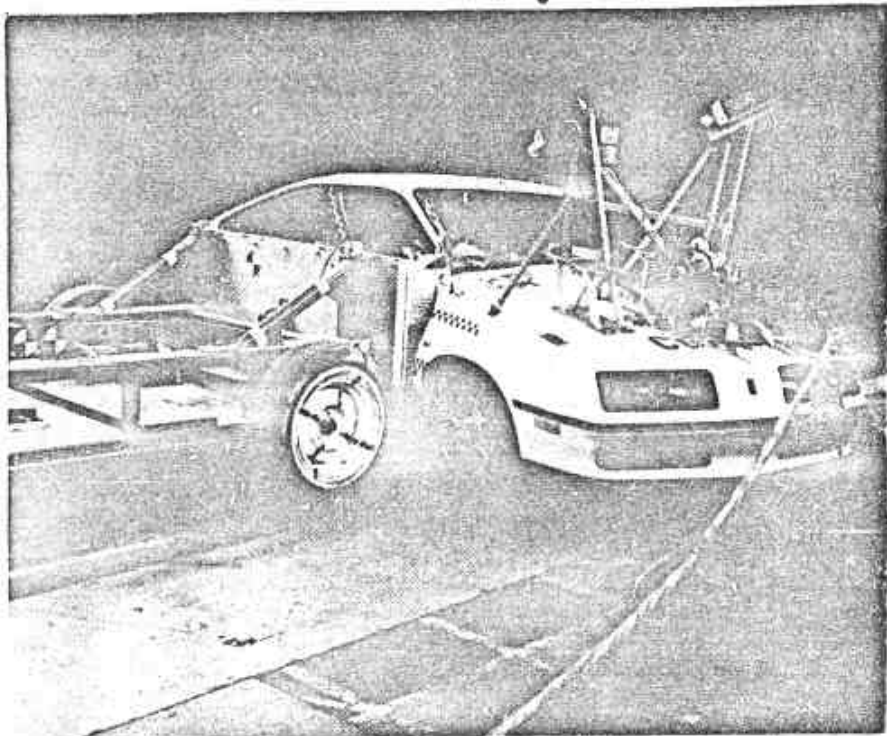


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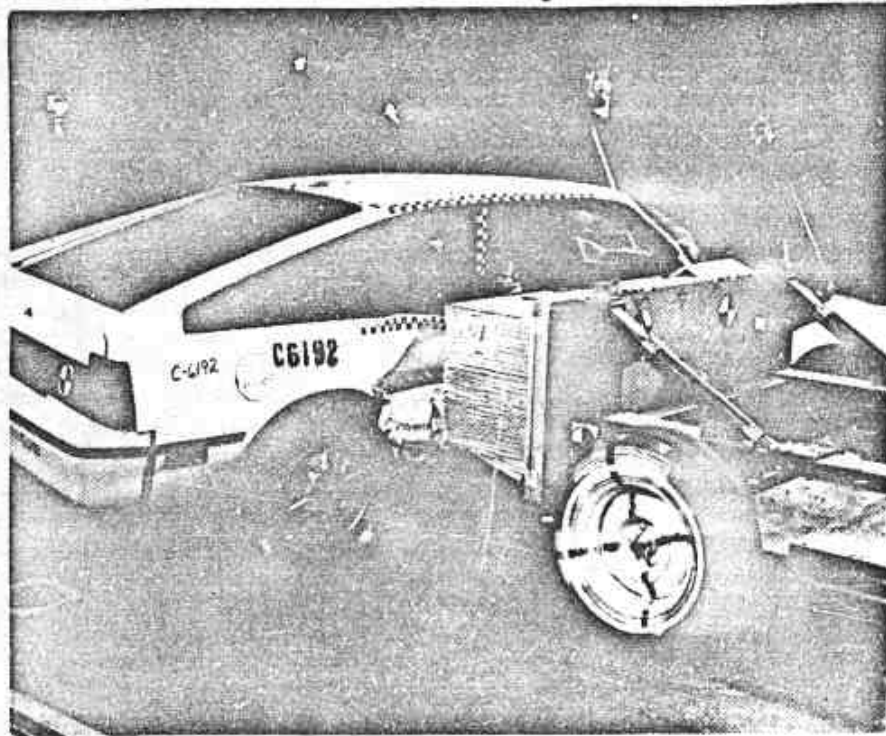


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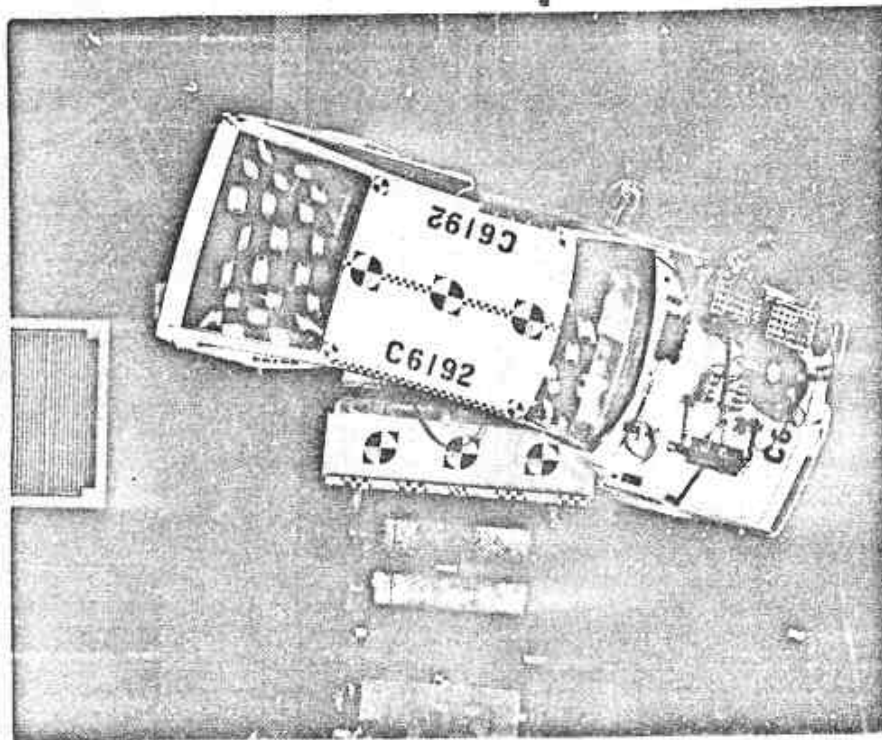


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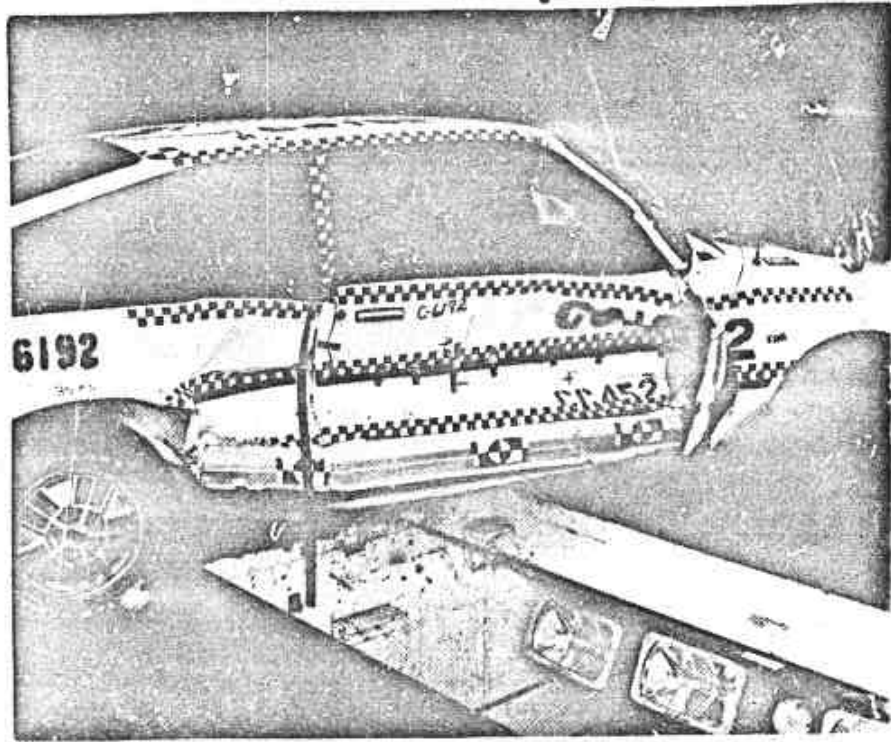


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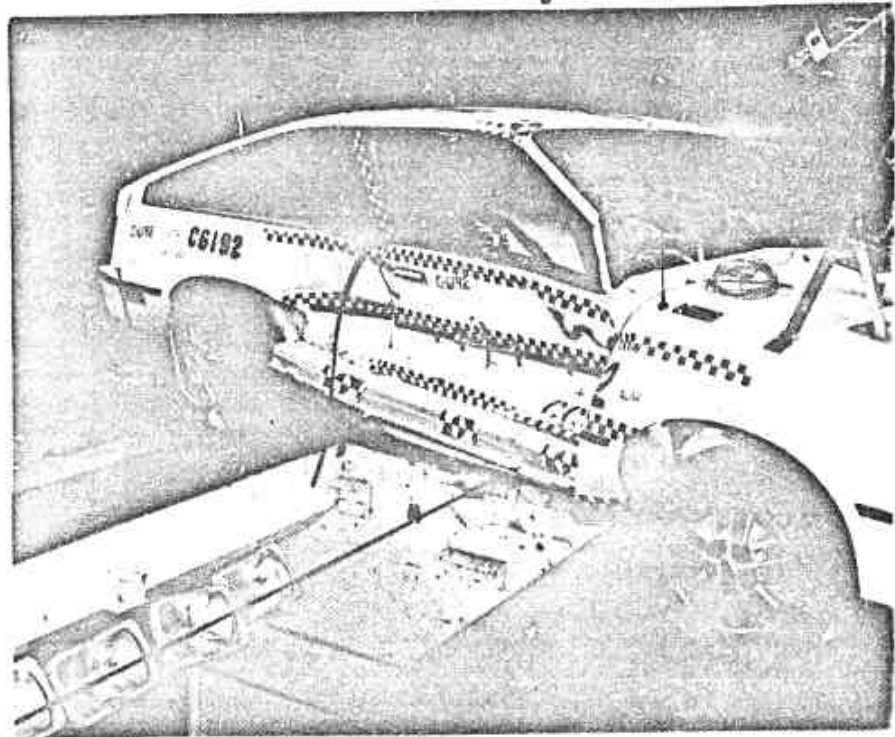


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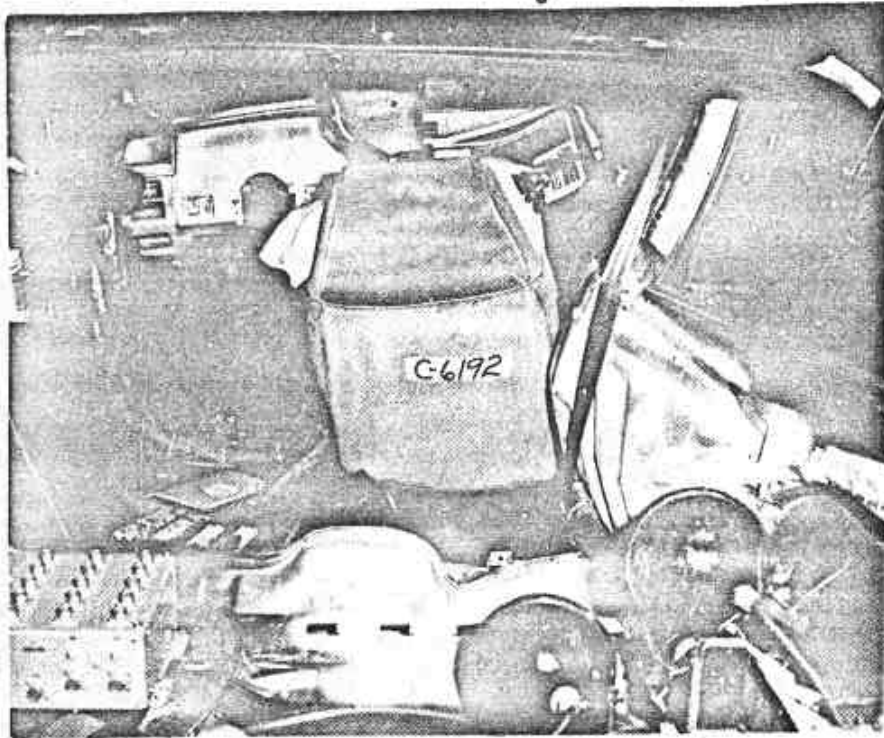


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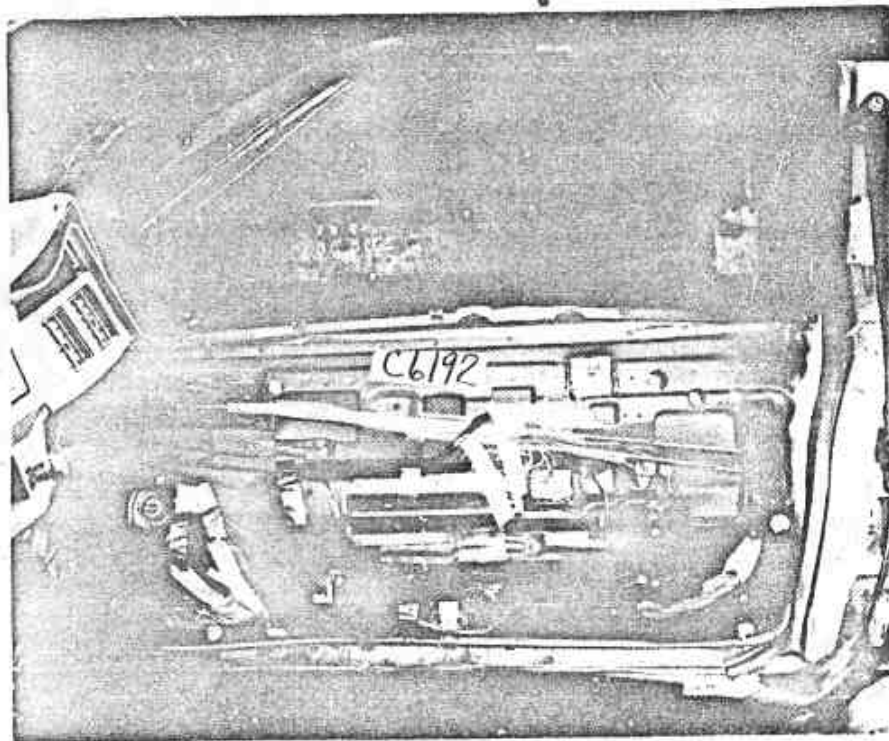


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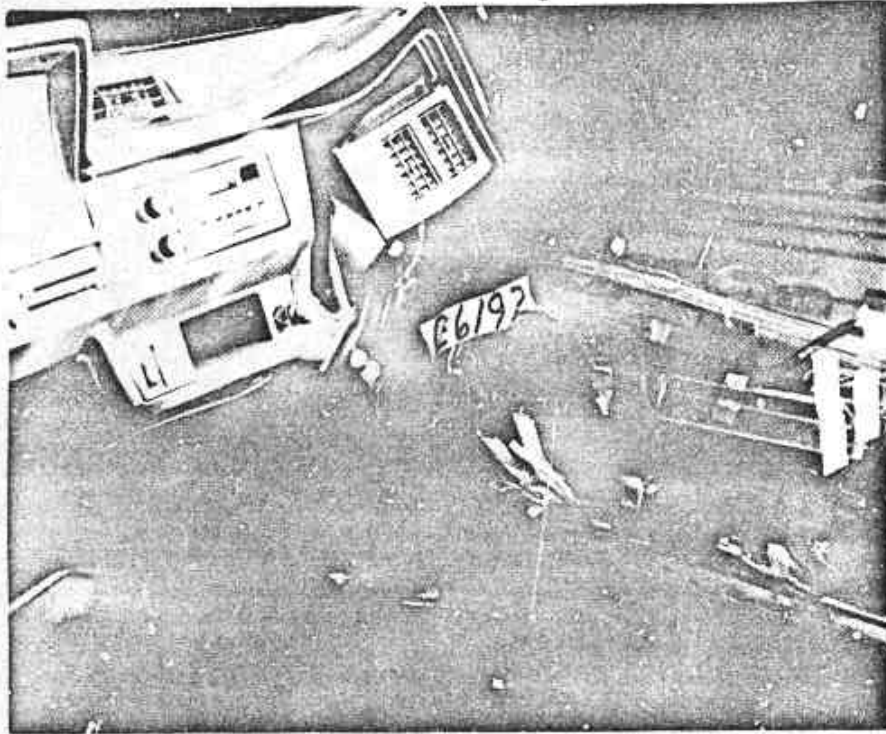


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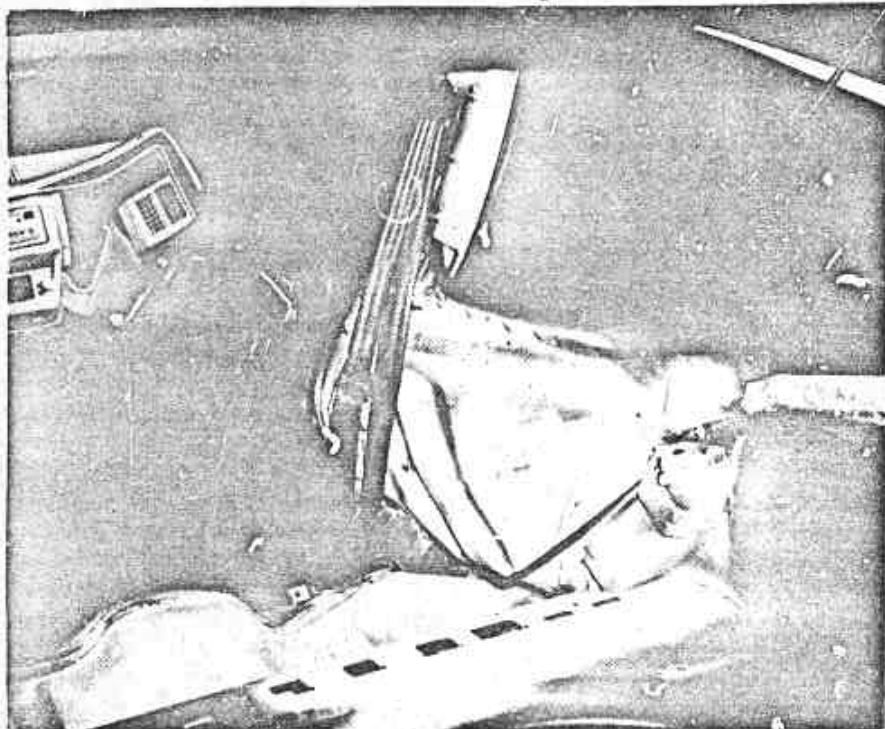
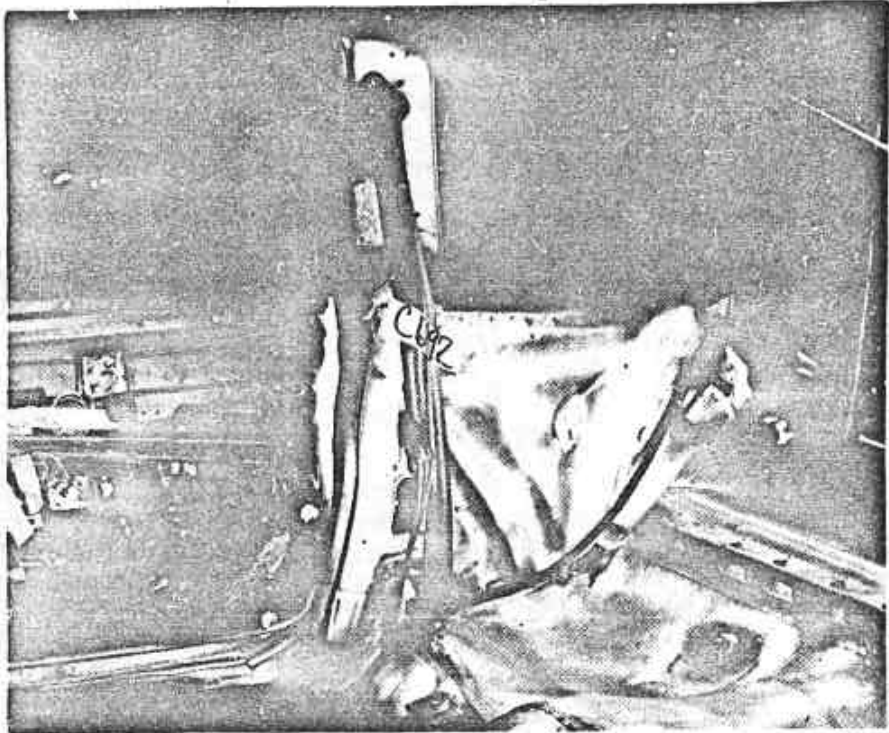
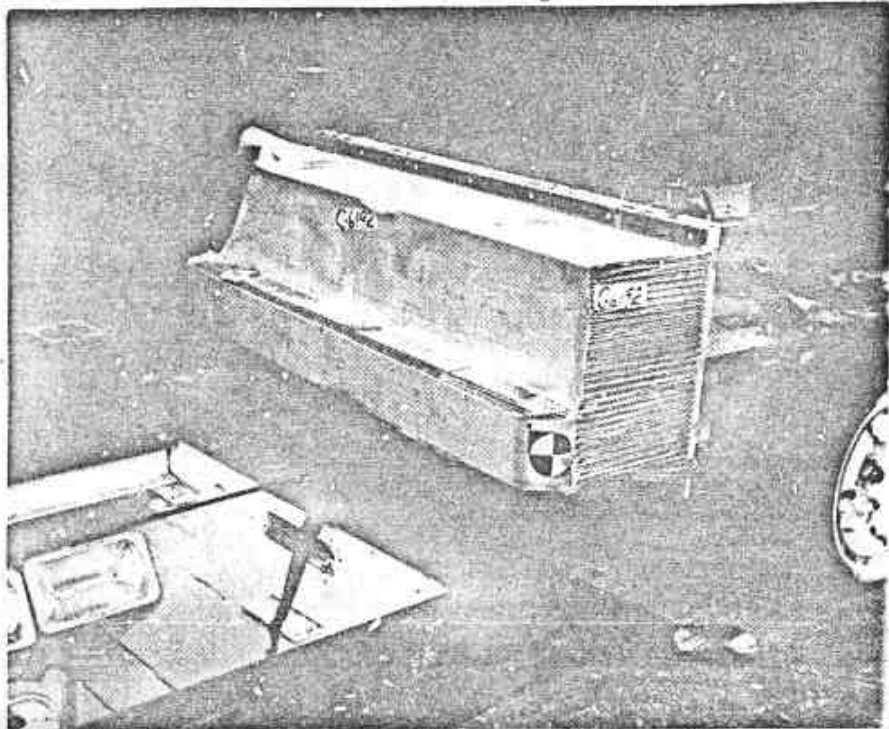


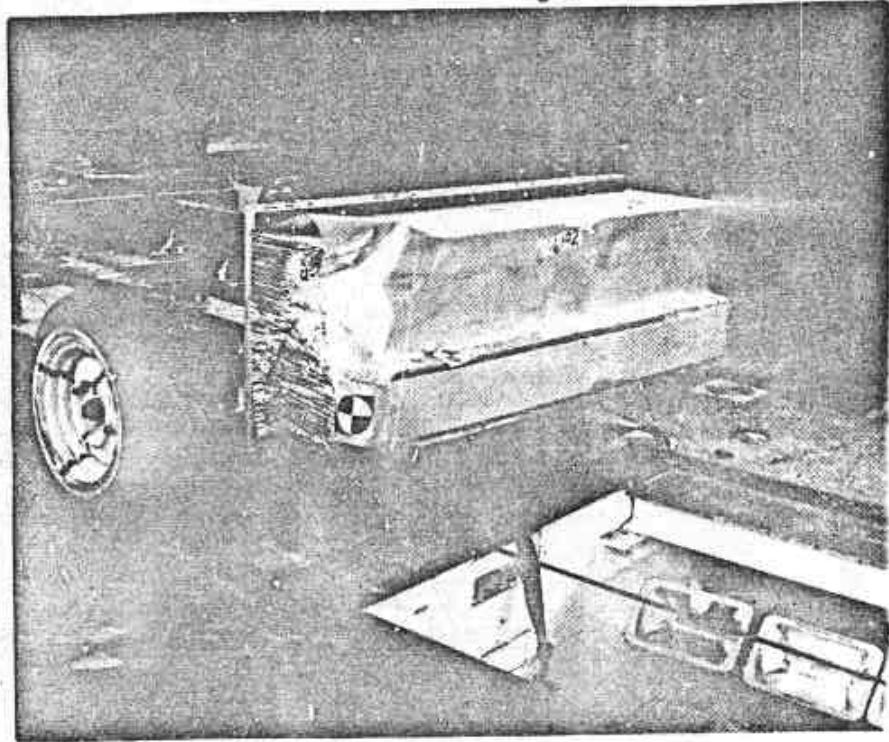
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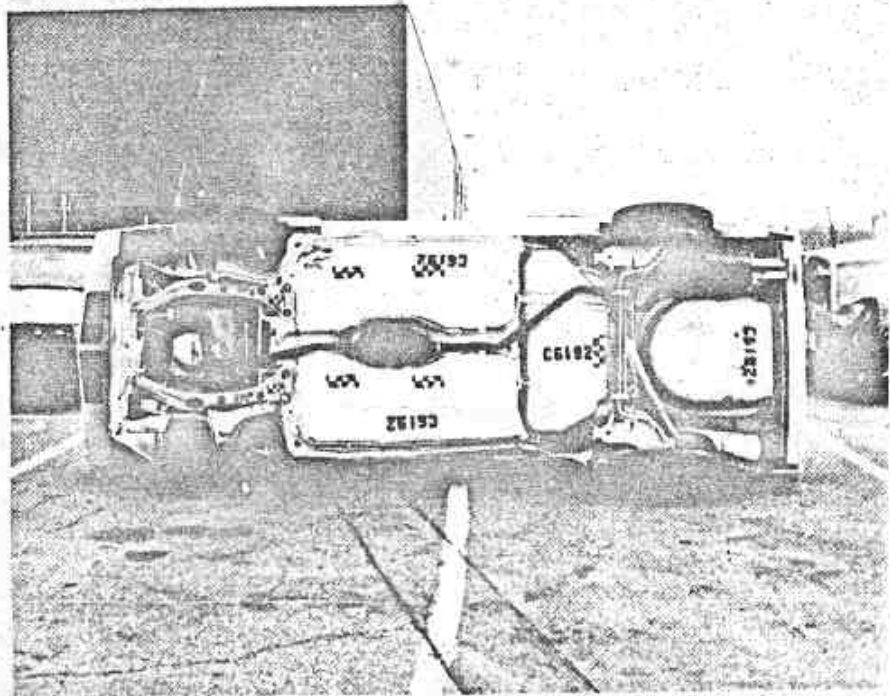
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