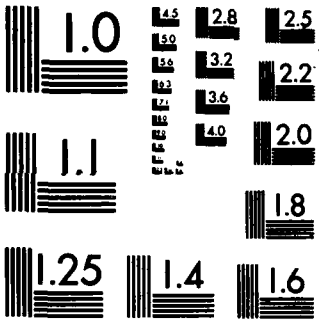
AD-A145 858 COMMAND FLIGHT PATH DISPLAY PHASE I AND II APPENDIX F 1/3
(U) SYSTEMS ASSOCIATES INC LONG BEACH CA RESOURCE
MANAGEMENT SYSTEMS DIV SEP 83 SAI-83-01
UNCLASSIFIED F33615-79-C-3618 F/G 1/4 NL



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

AD-A145 858

(2)

COMMAND FLIGHT PATH DISPLAY

PHASE I AND II

FINAL TECHNICAL REPORT

R83-49

(Appendix F)

See also AD-A140870 A140871

SYSTEMS ASSOCIATES, INC.
of
CALIFORNIA

Resource Management Systems Division

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COMMAND FLIGHT PATH DISPLAY

PHASE I AND II

FINAL TECHNICAL REPORT

R83-49

(Appendix F)

SEPTEMBER 1983

F33615-79-C-3618

S-82-03

SAI-83-01

UNCLASSIFIED

APPENDIX F

Command Flight Path Display

Flight Test Plots

Accession For
NTIS GRA&I ☑
DTIC TAB ☐
Unannounced ☐
Justification PER BASIC
By
Distribution/
Availability Codes
Dist | Avail and/or Special
A-1

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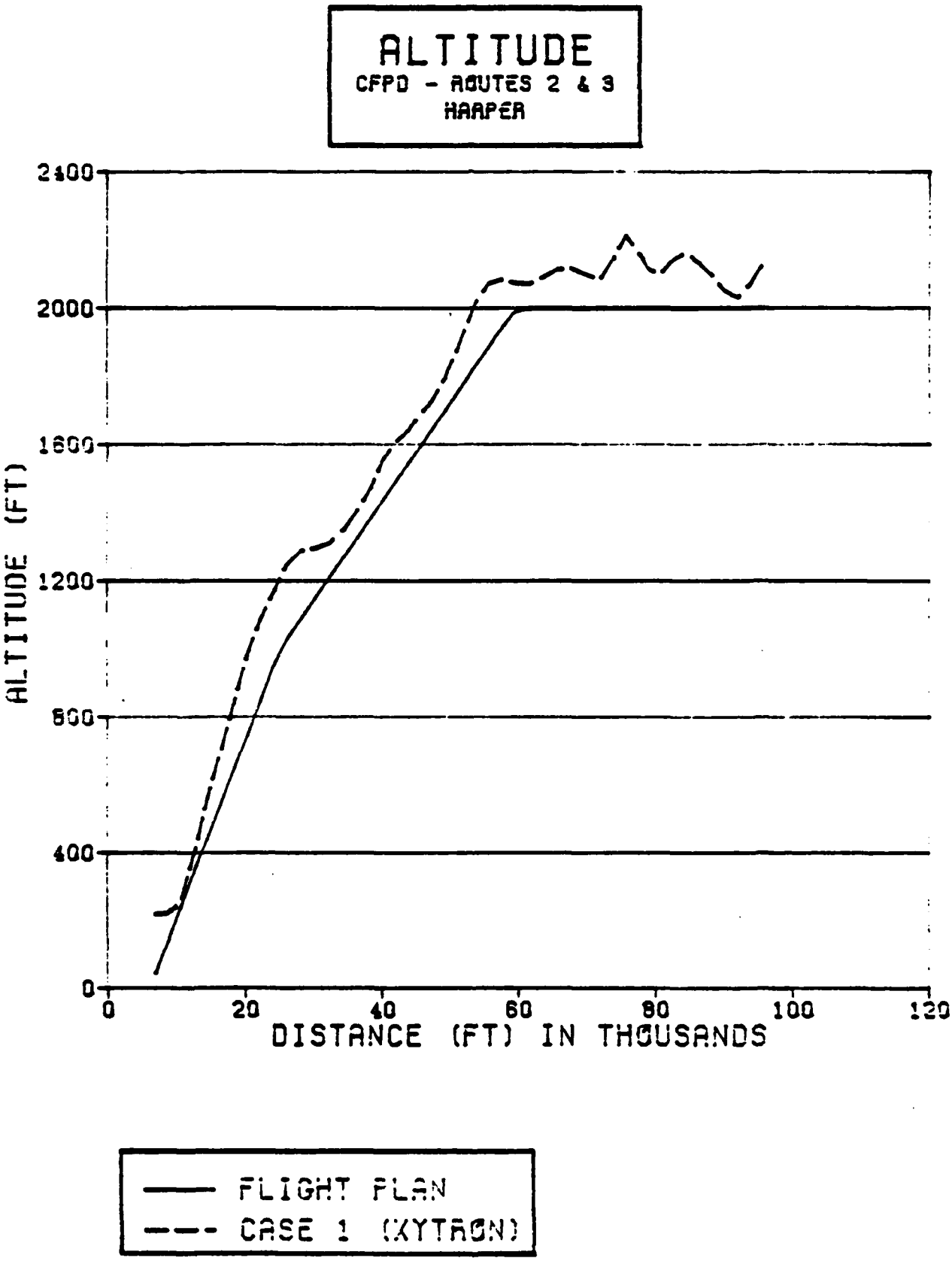
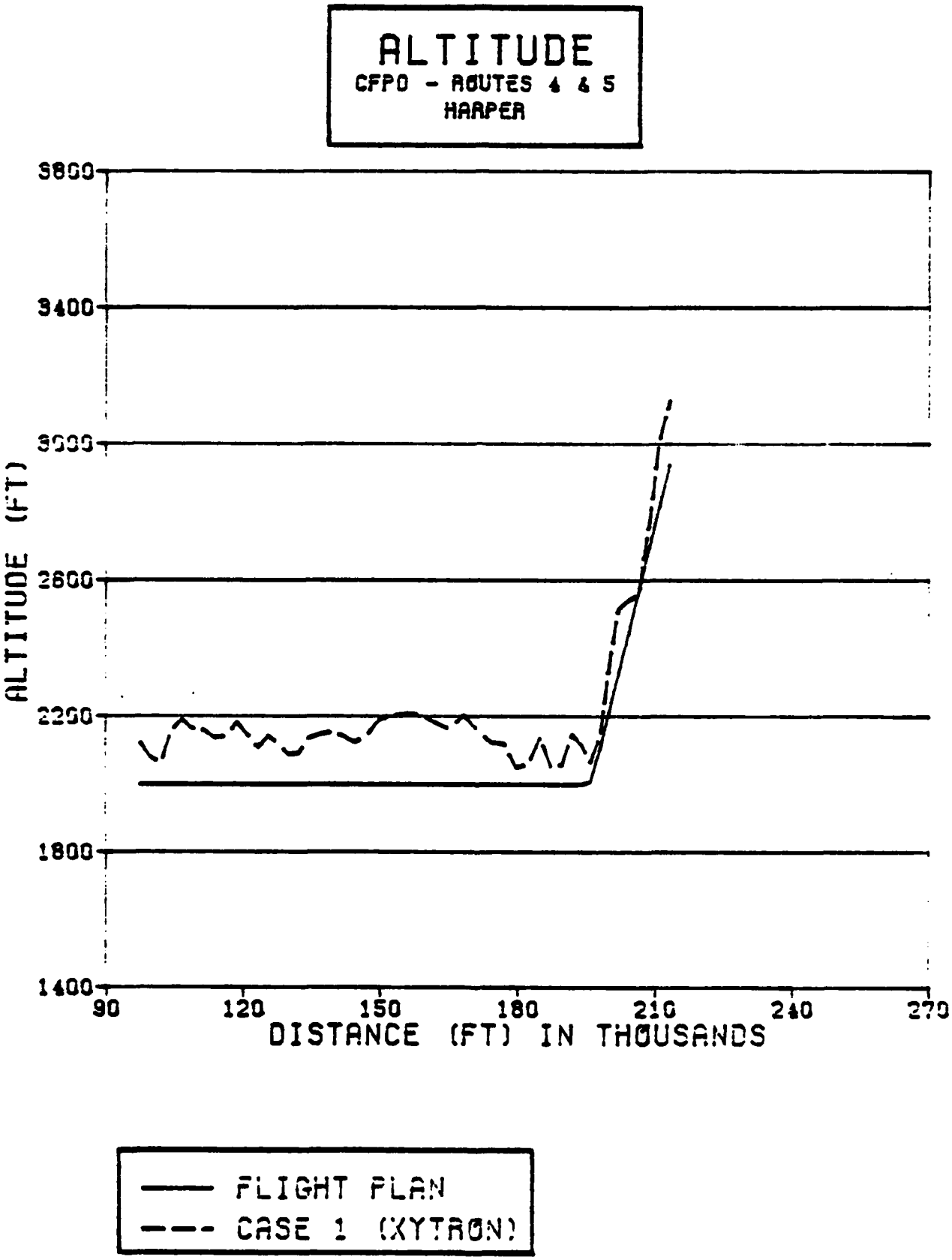
Contained in this appendix are the various plots generated during data reduction. Parameters plotted include Altitude (flight plan and actual vs. distance*), Lateral Deviation (horizontal distance from flight plan path vs. distance), and Velocity (flight plan, actual, and CFPD velocity indicator vs. distance). Flight test cases involving the modified "Charlie" pattern were segmented into "Routes", each plot containing two consecutive Routes. A chart is included indicating the relative location of these Routes.

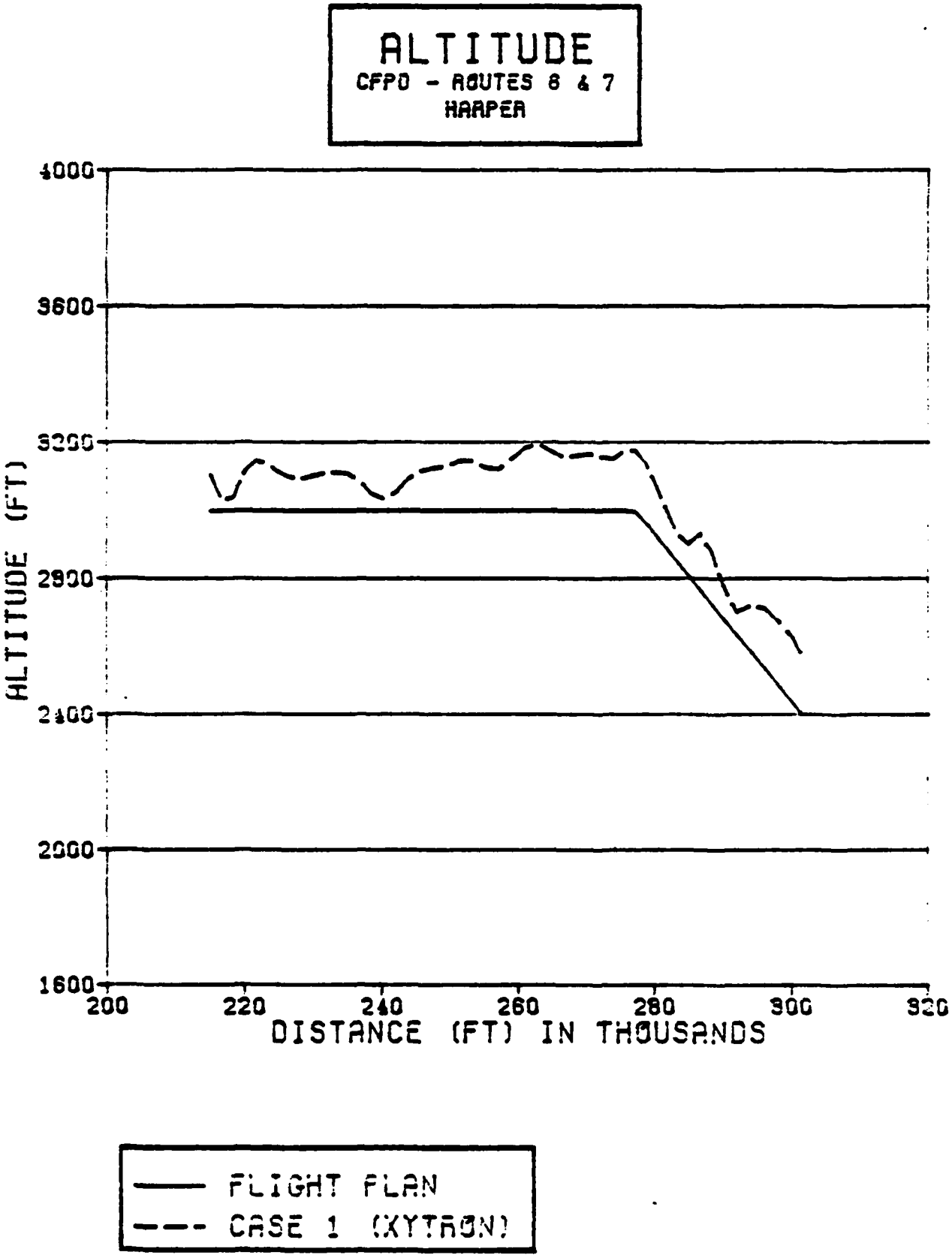
Note

The Velocity plots for Mr. R. P. Harper do not contain the CFPD velocity indicator velocity as this information was not recorded during initial flights.

* Distance refers to distance along the flight plan path as measured from the starting point.


ALTITUDE
CFPD - ROUTES 2 & 3
HARPER
2400
2000
1600
1200
800
400
0
ALTITUDE (FT)
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)


ALTITUDE
CFPO - ROUTES 4 & 5
HARPER
3800
3400
3000
2600
2200
1800
1400
ALTITUDE (FT)
90
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)


ALTITUDE
CFPO - ROUTES 8 & 7
HARPER
4000
3600
3200
2800
2400
2000
1600
ALTITUDE (FT)
200
220
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260
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300
320
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
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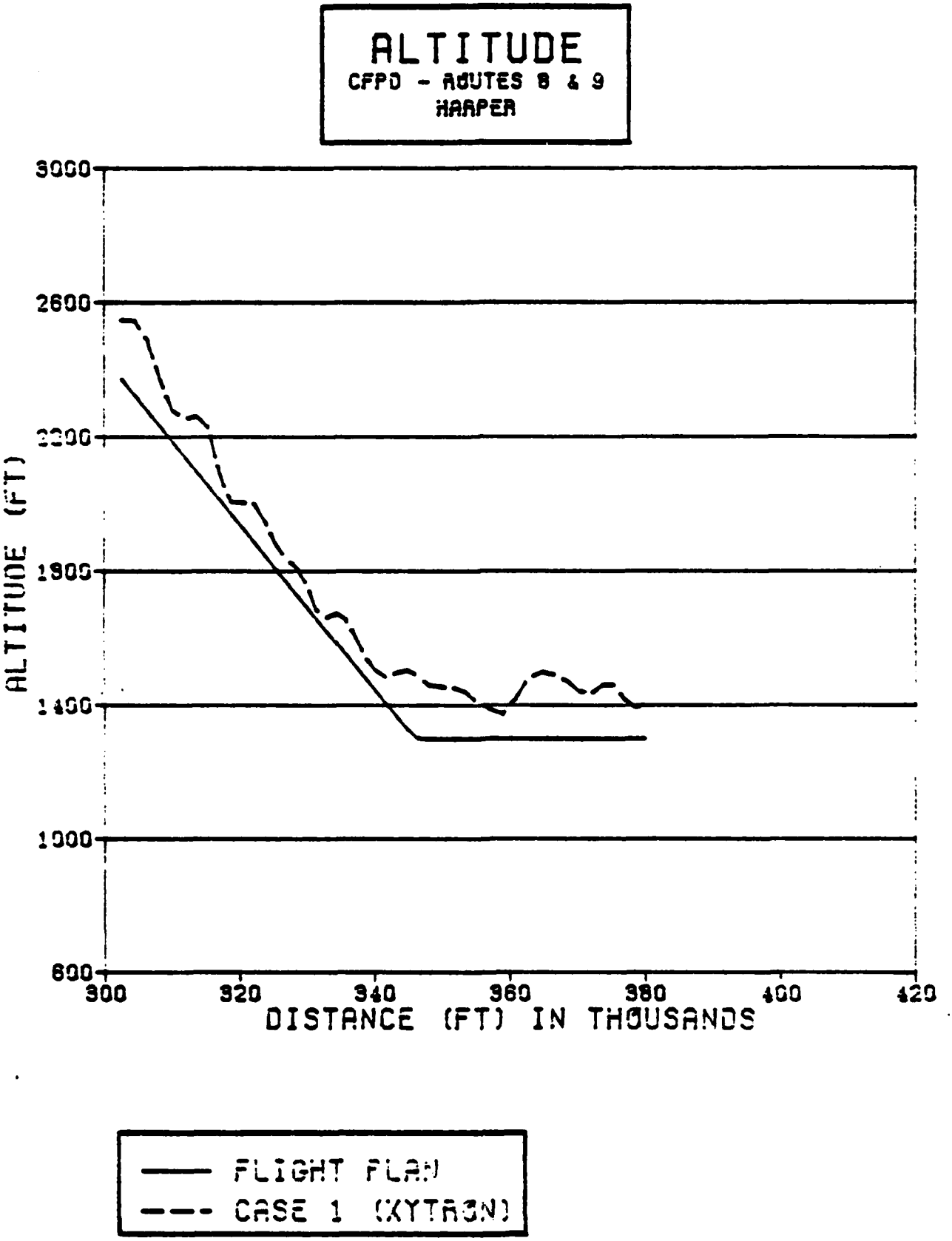
ALTITUDE
CFPD - ROUTES 8 & 9
HARPER
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2600
2200
1800
1400
1000
600
ALTITUDE (FT)
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320
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360
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400
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DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
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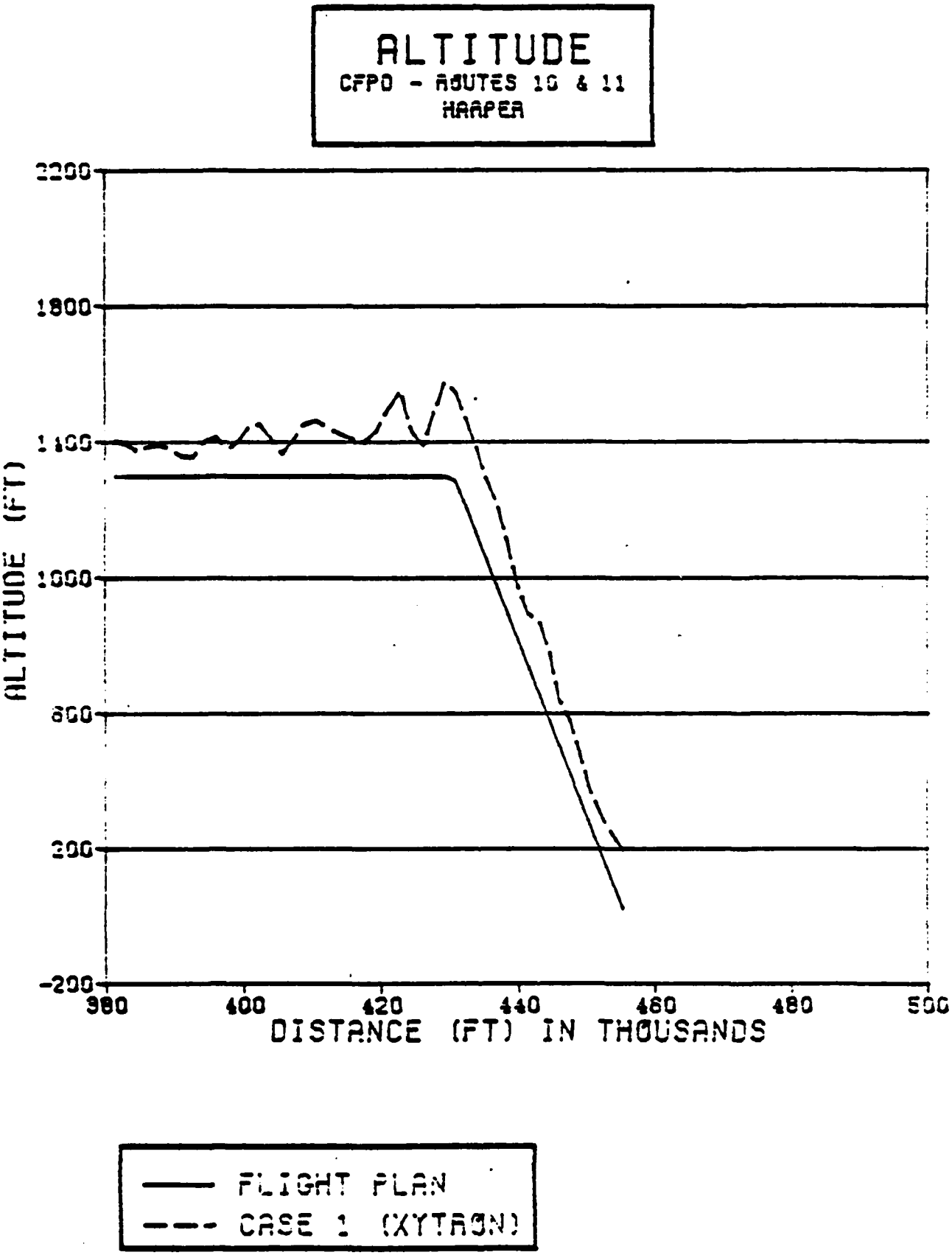
ALTITUDE
CFPO - ROUTES 10 & 11
HARPER
2200
1800
1400
1000
600
200
-200
ALTITUDE (FT)
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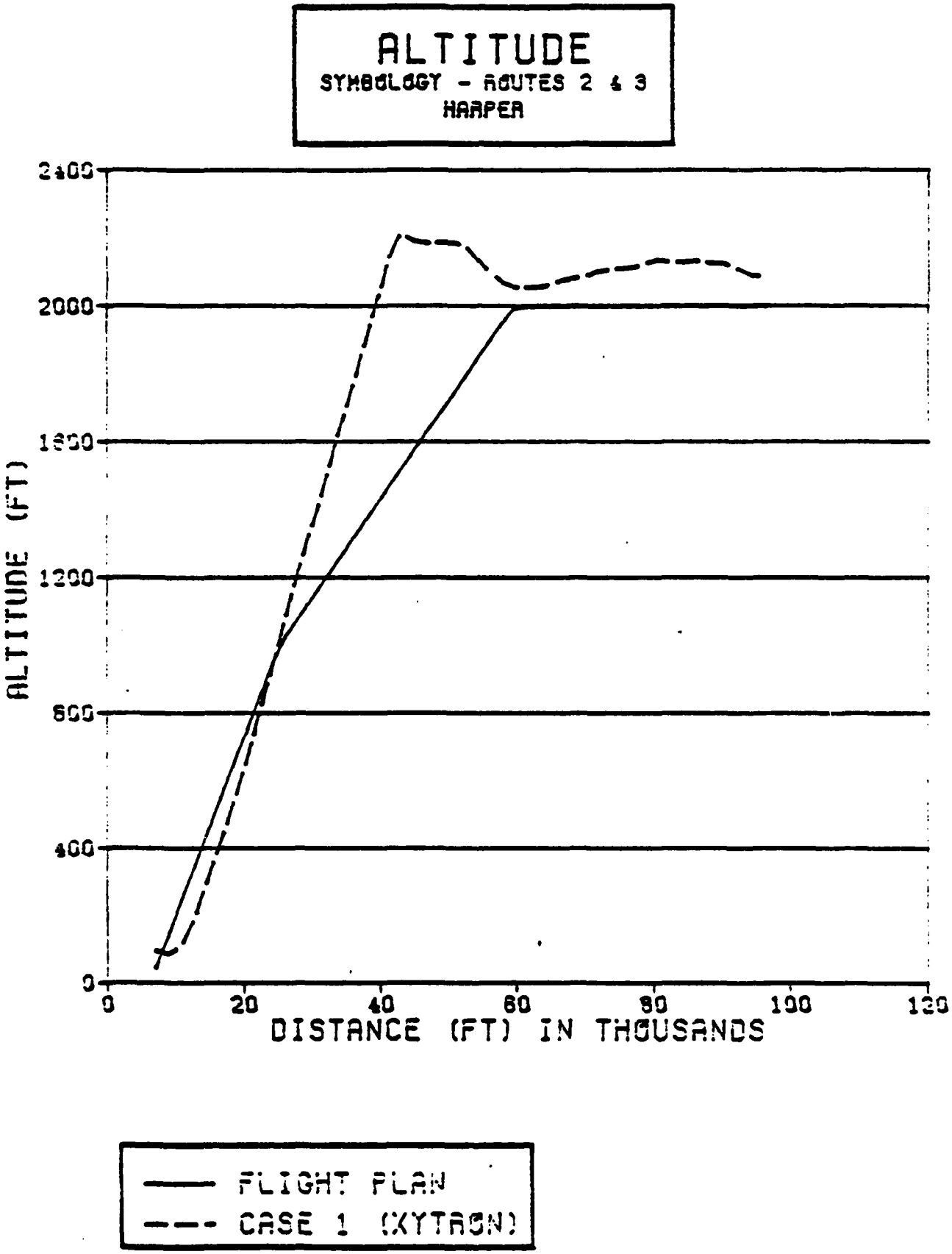
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)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1200
800
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ALTITUDE (FT)
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20
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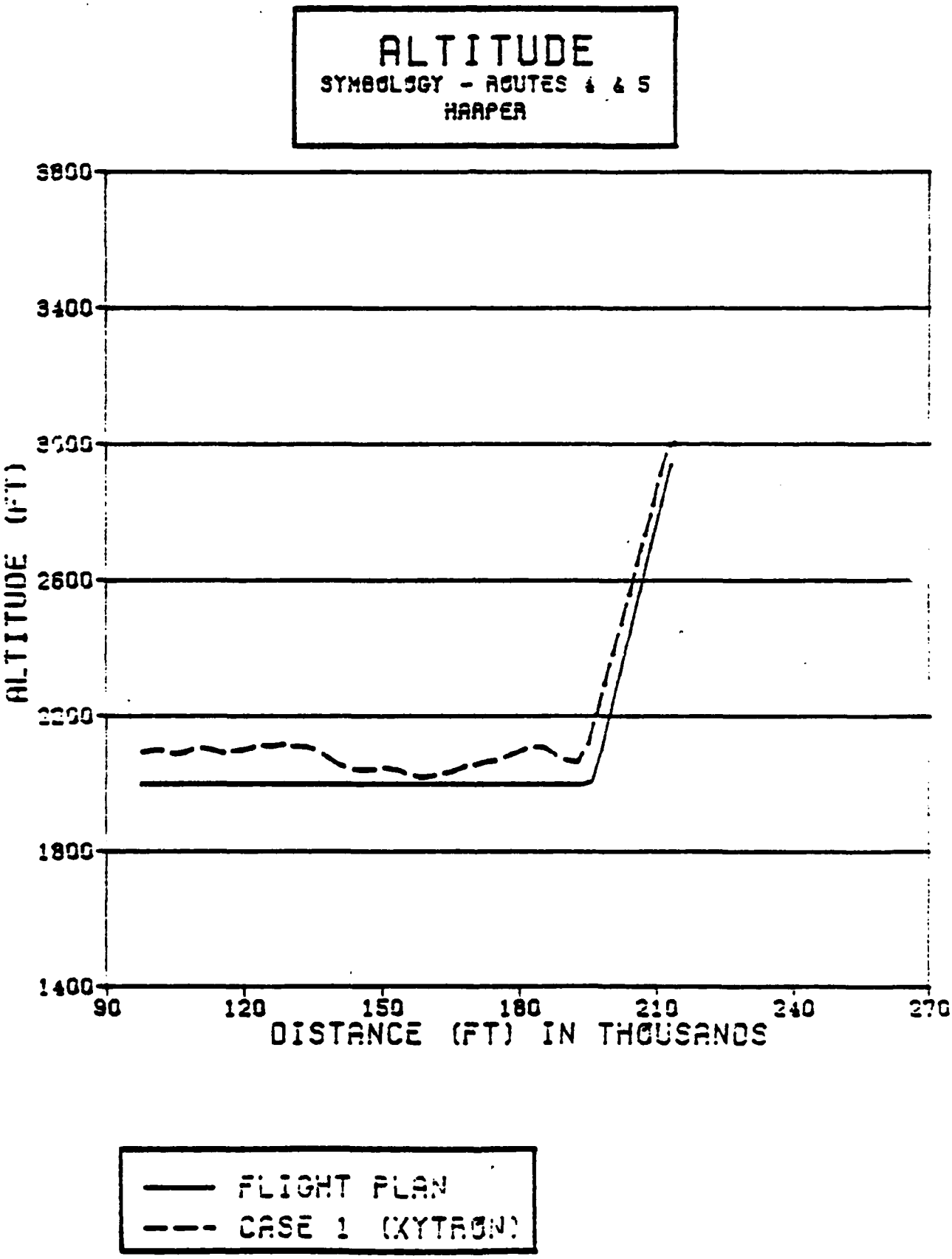
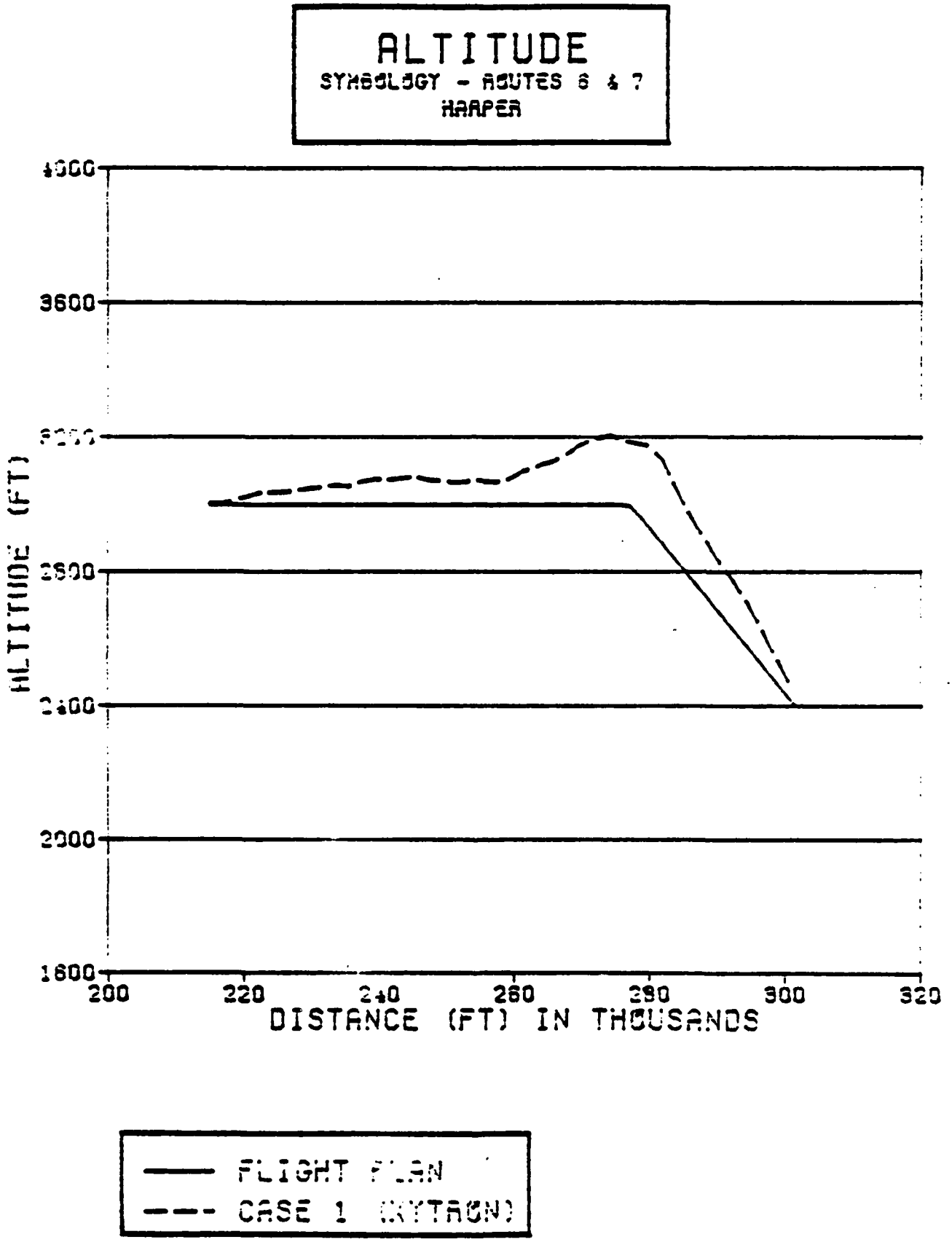
60
80
100
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)


ALTITUDE
SYMBOLOGY - ROUTES 4 & 5
HARPER
3800
3400
3000
2600
2200
1800
1400
ALTITUDE (FT)
90
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)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SYMBOLOGY - ROUTES 6 & 7
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3600
3200
2800
2400
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ALTITUDE (FT)
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DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
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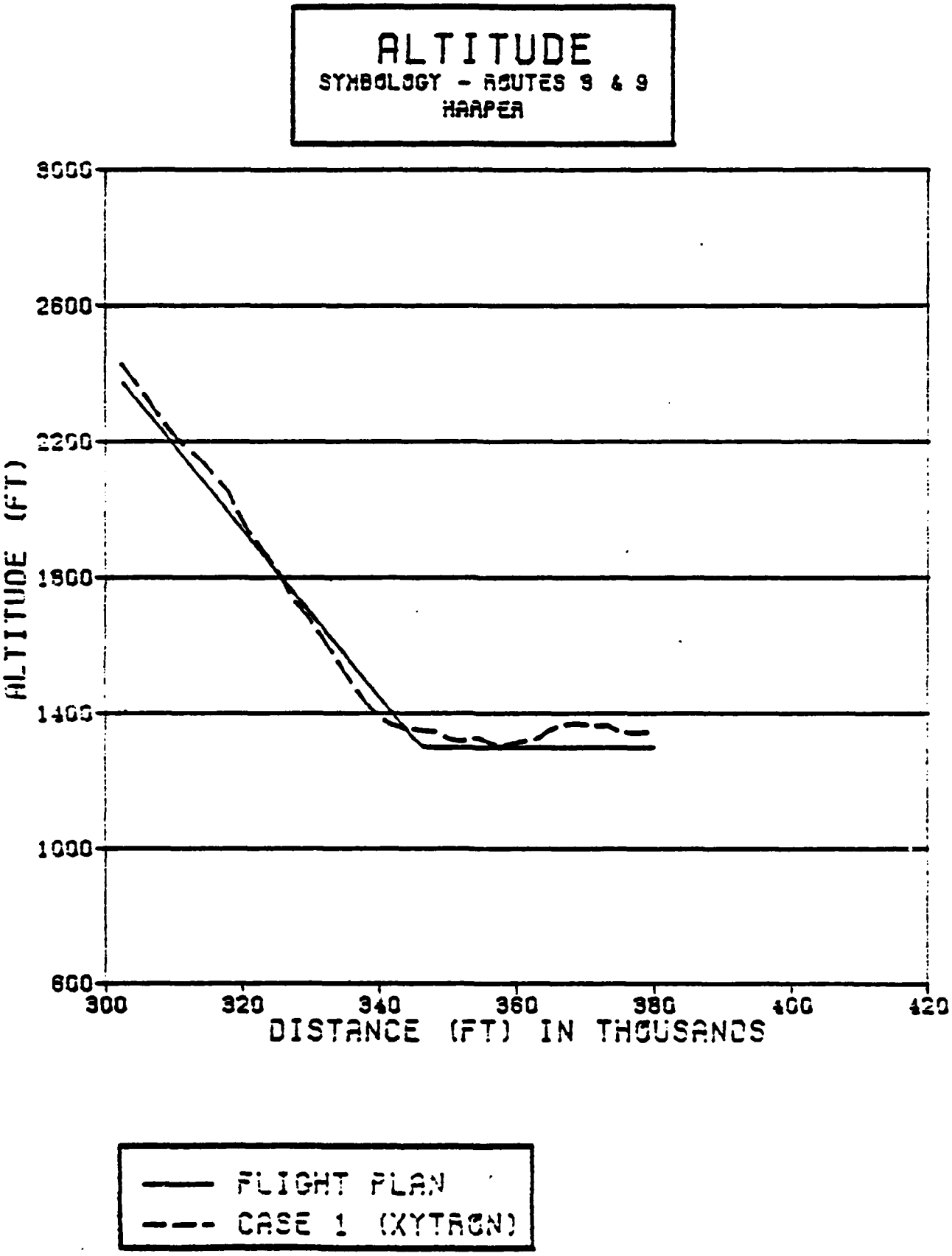
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SYMBOLOGY - ROUTES 9 & 9
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2600
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1800
1400
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ALTITUDE (FT)
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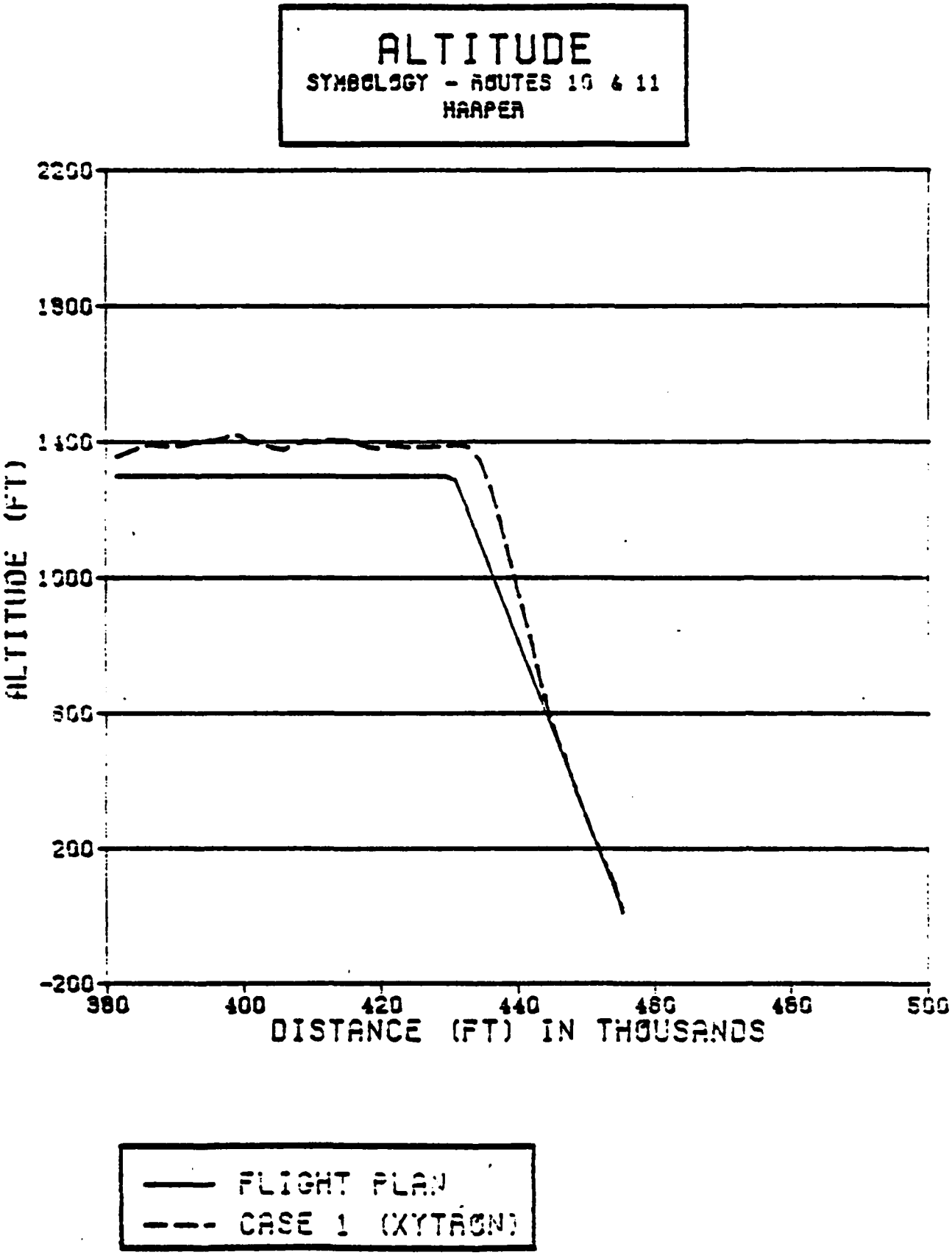
400
420
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)


ALTITUDE
SYMBOLOGY - ROUTES 10 & 11
HARPER
2200
1800
1400
1000
600
200
-200
ALTITUDE (FT)
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400
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440
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500
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
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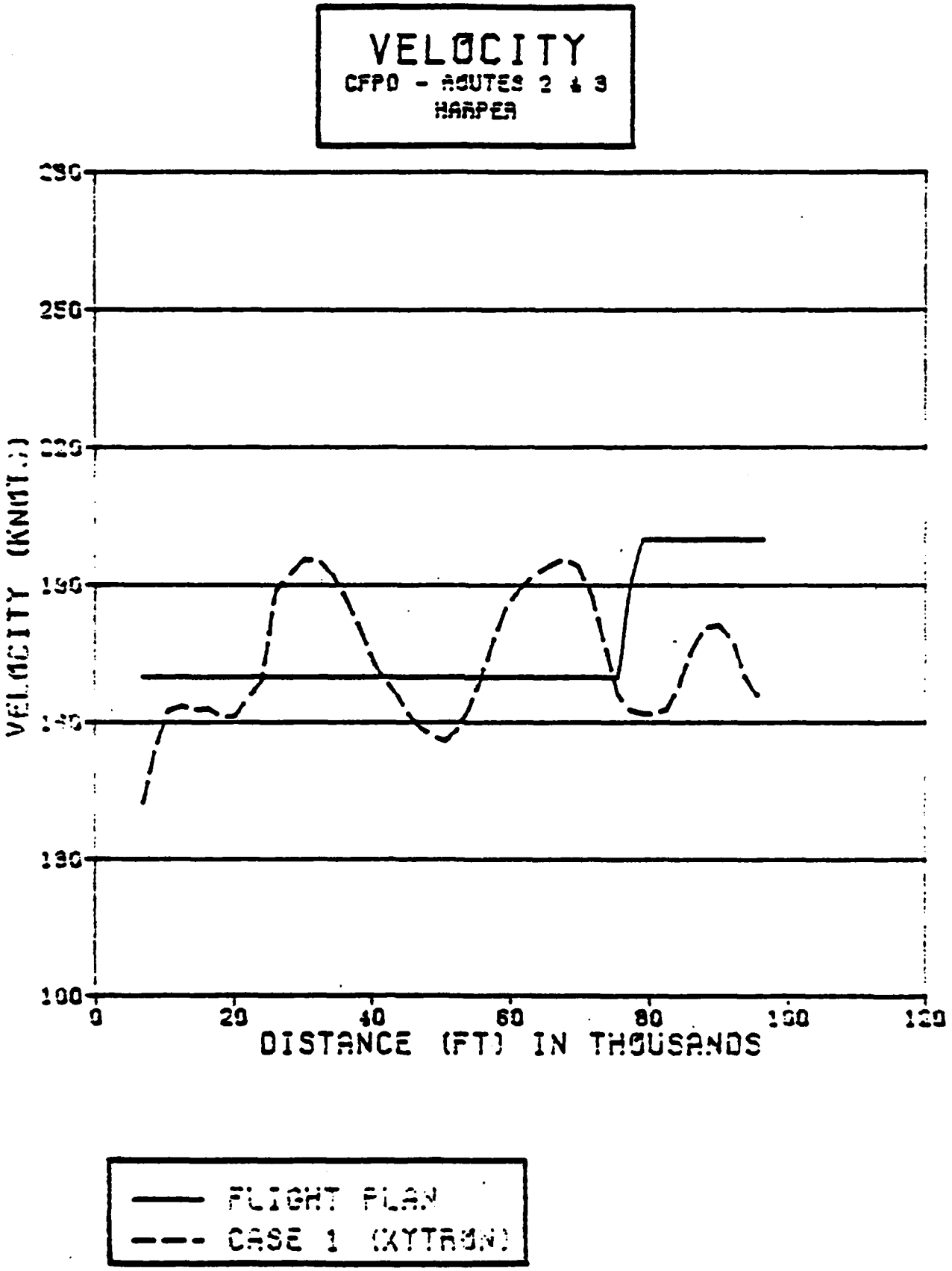
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CFPO - ROUTES 2 & 3
HARPER
VELOCITY (KNOTS)
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220
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160
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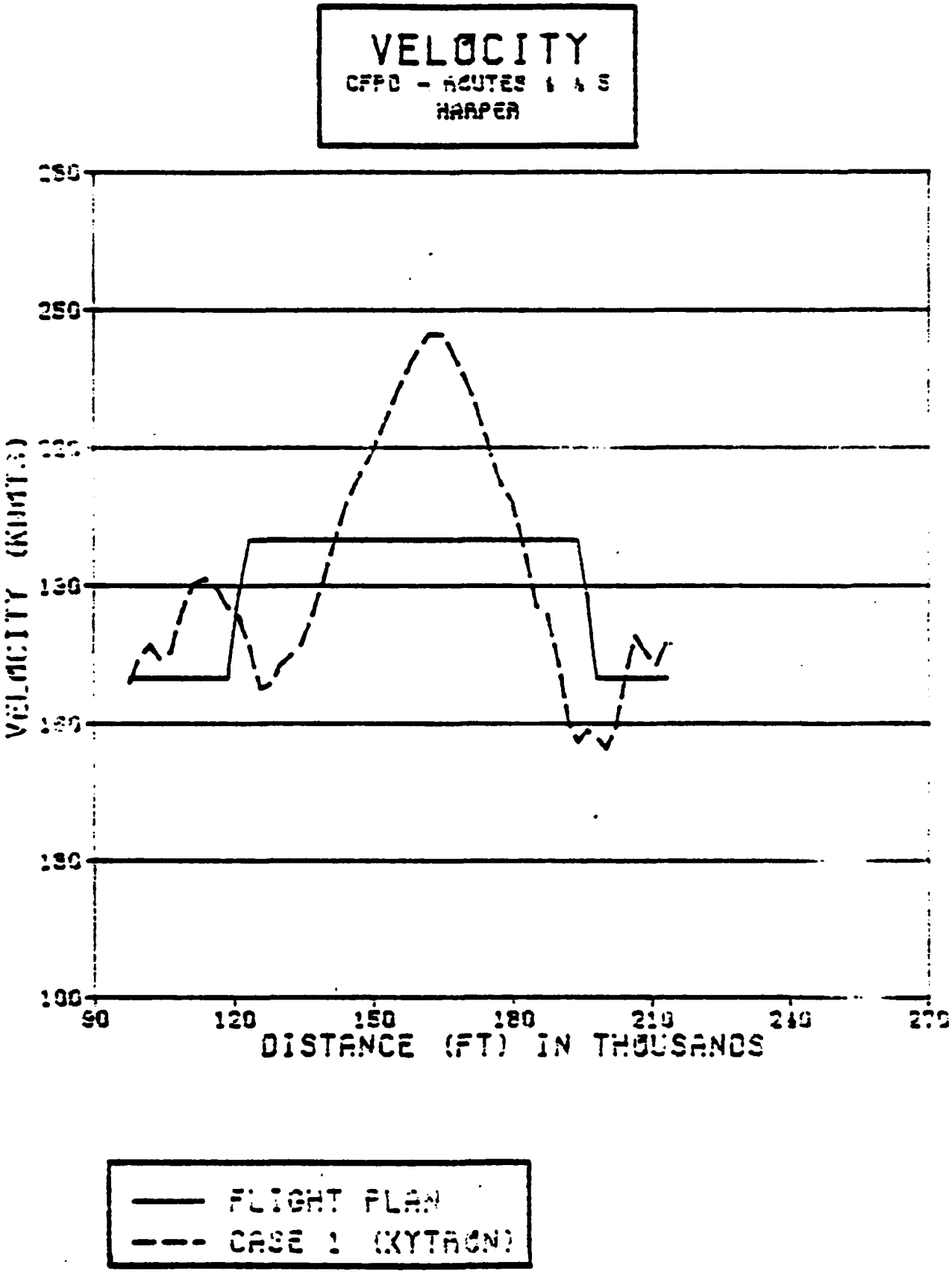
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)


VELOCITY
CFPD - ROUTES 4 & 5
HARPER
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90
120
150
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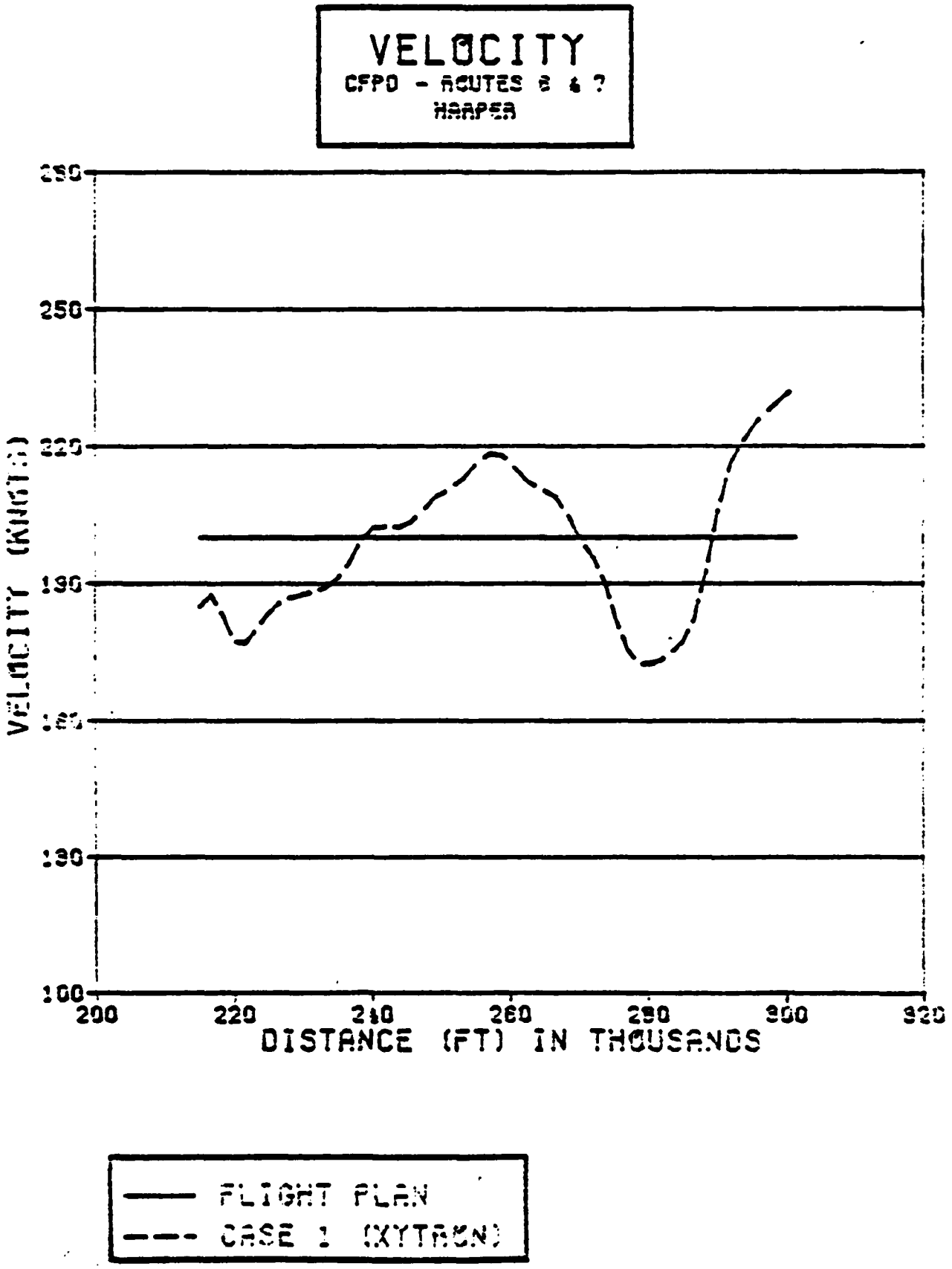
240
270
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (KYTRON)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CFPD - ROUTES 6 & 7
HARPER
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300
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DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
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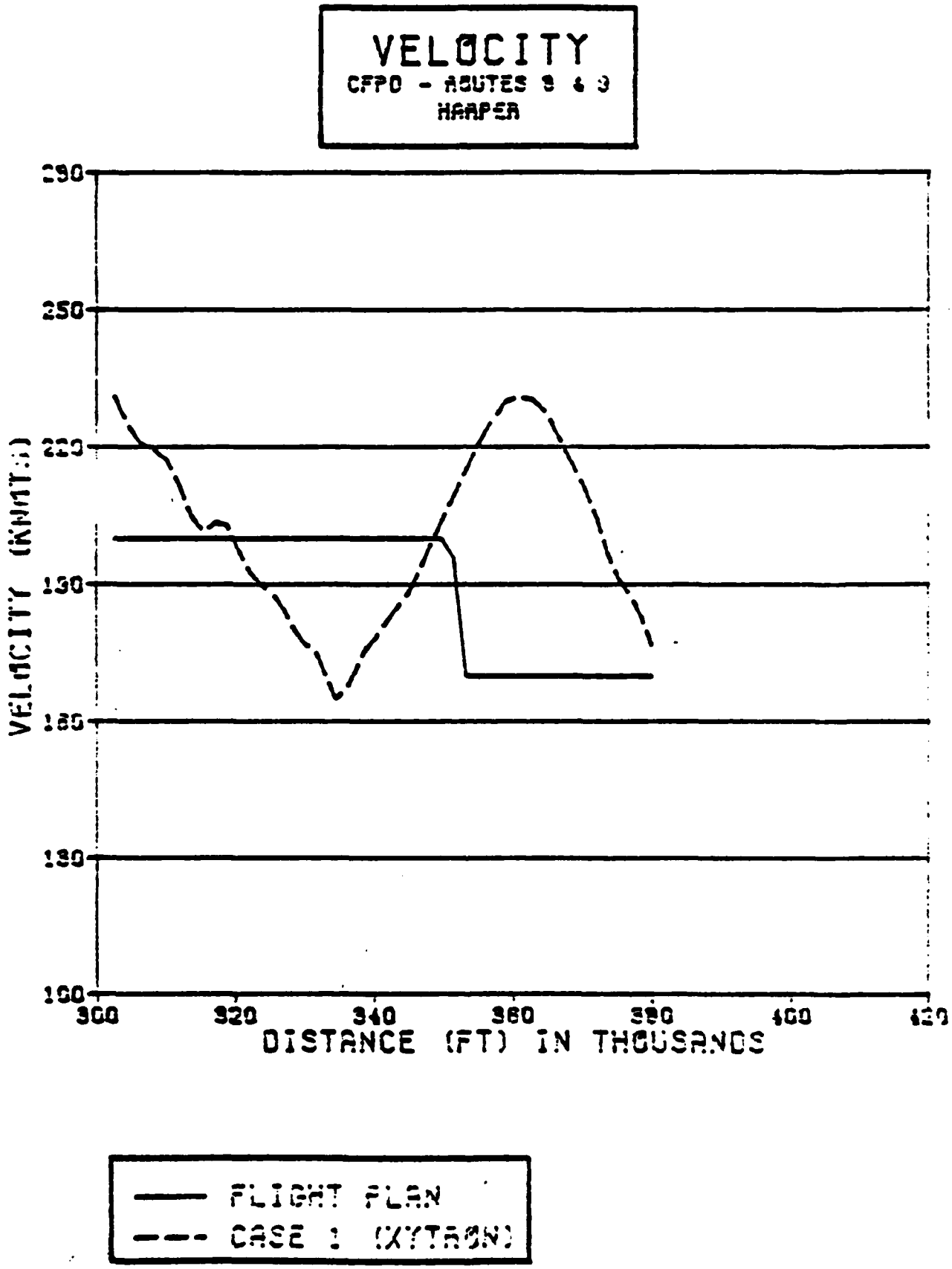
VELOCITY
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HARPER
VELOCITY (KNOTS)
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
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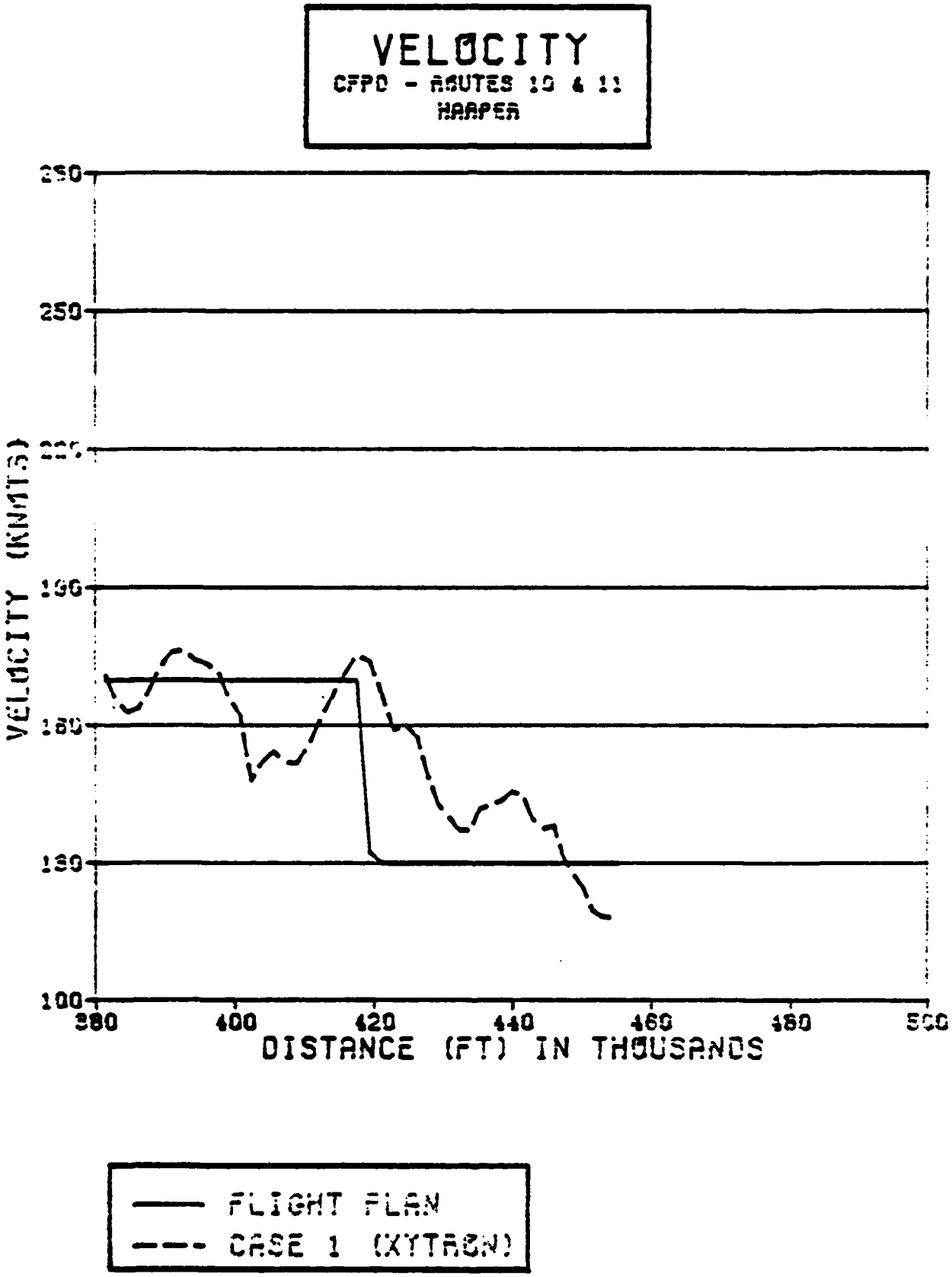
VELOCITY
CFPD - ROUTES 10 & 11
HARPER
VELOCITY (KNOTS)
250
250
200
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180
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400
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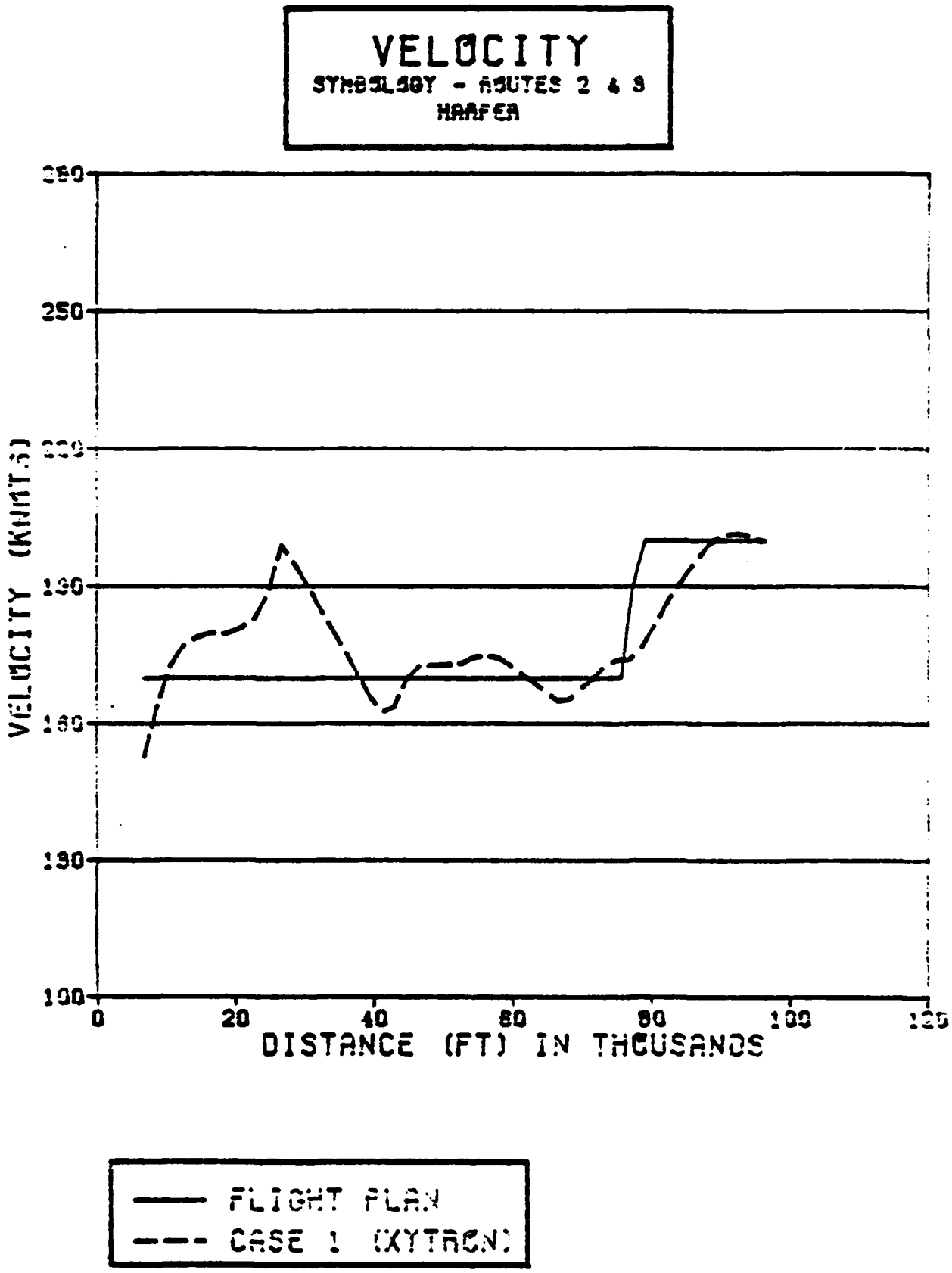
440
460
480
500
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)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HARFER
VELOCITY (KNOTS)
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200
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100
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
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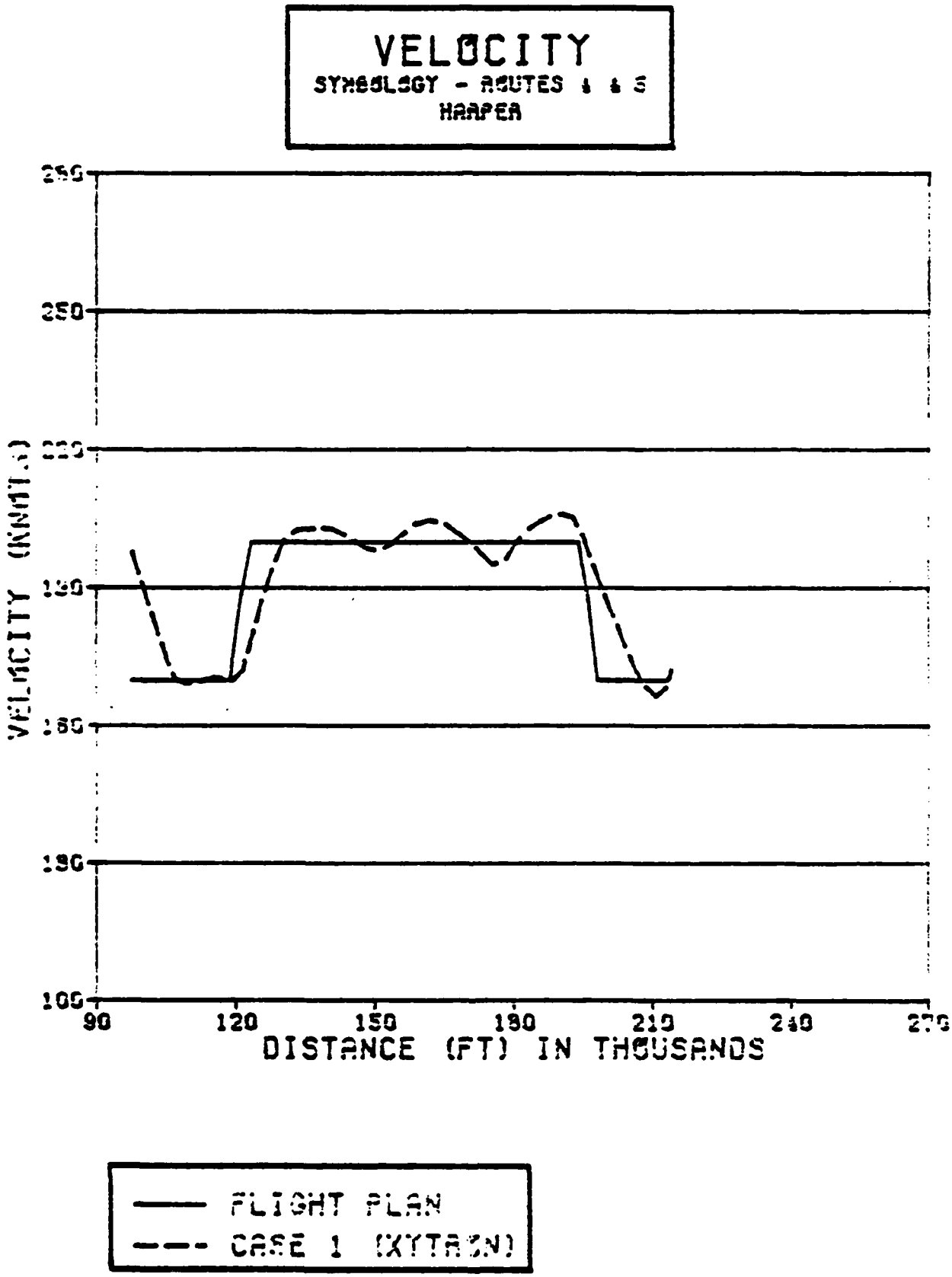
VELOCITY
SYMBOLOGY - ROUTES 1 & 3
HARPER
VELOCITY (KNOTS)
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200
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240
270
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
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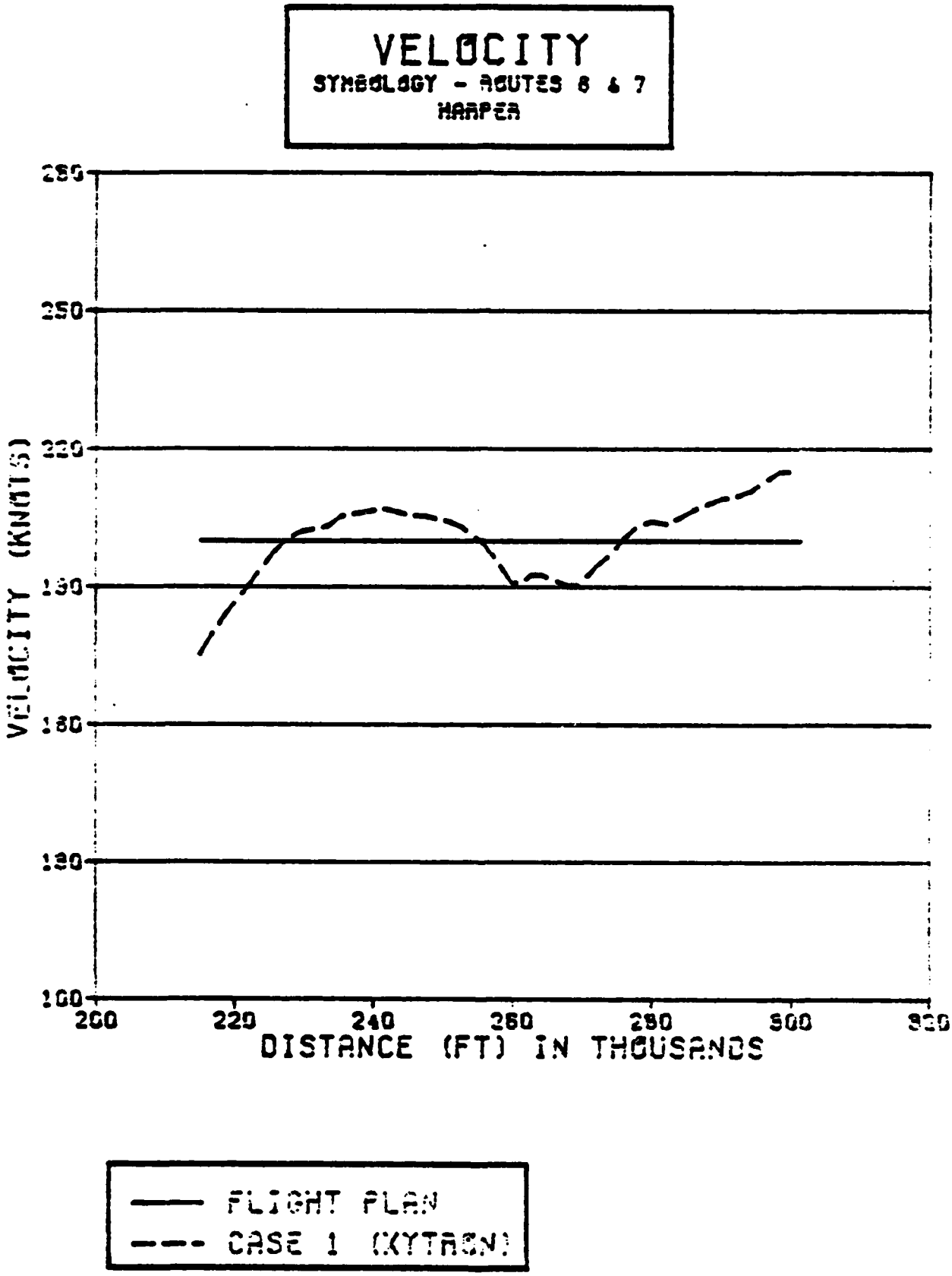
VELOCITY
SYMBOLOGY - ROUTES 6 & 7
HARPER
VELOCITY (KNOTS)
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
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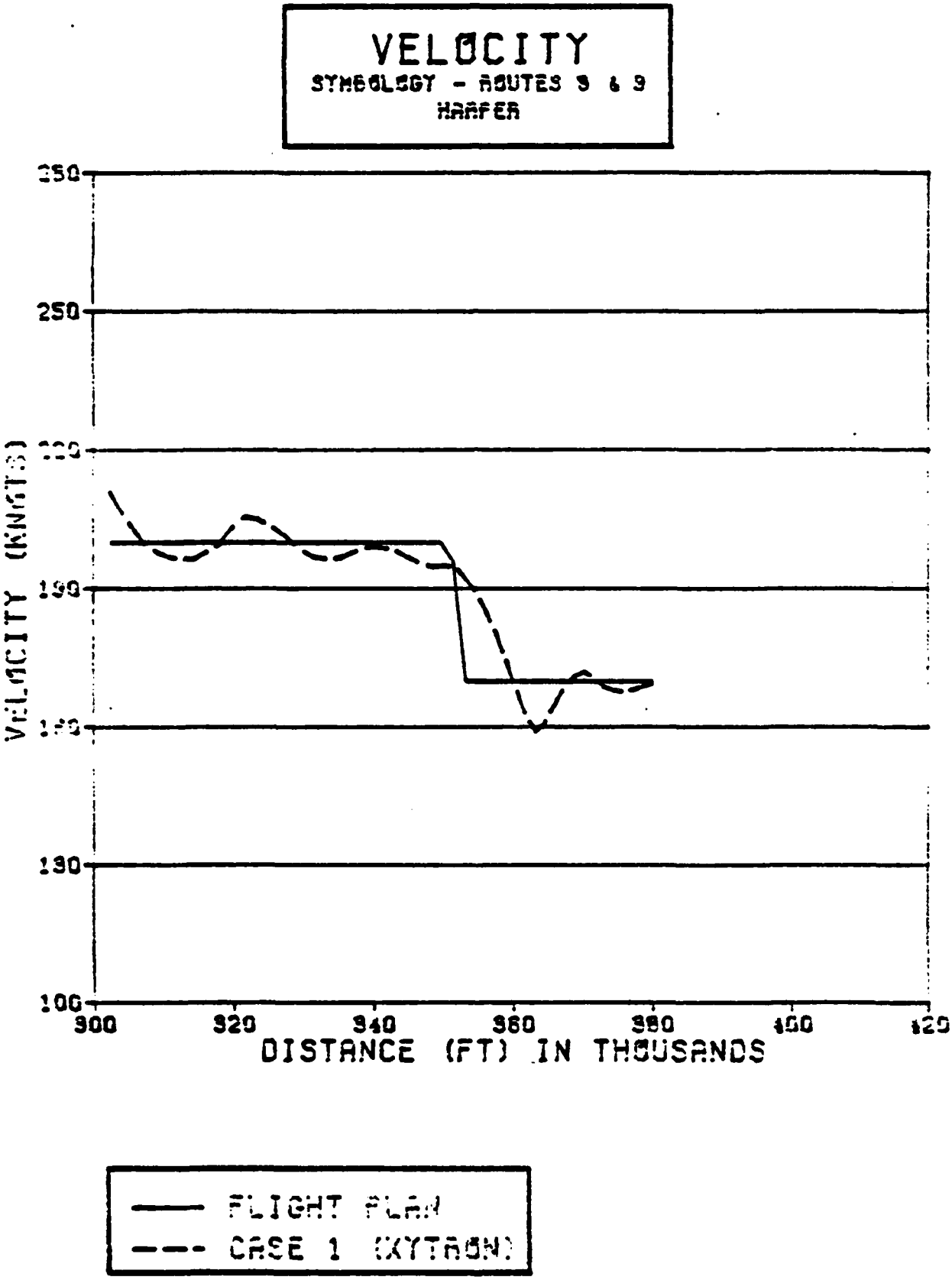
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SYMBOLOGY - ROUTES 3 & 9
HARPER
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190
130
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VELOCITY (KNOTS)
300
320
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360
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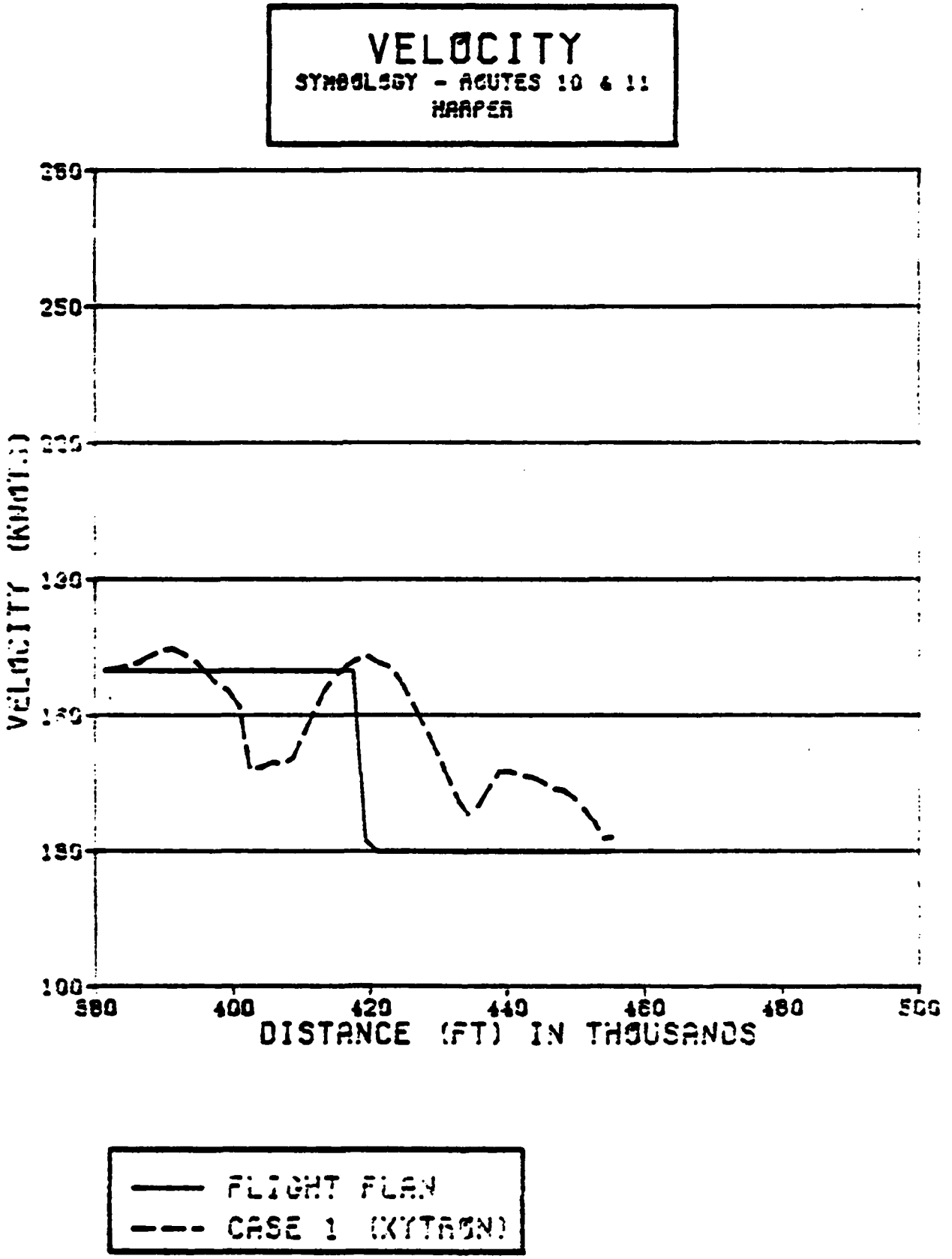
400
420
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)


VELOCITY
SYMBOLOGY - ACUTES 10 & 11
HARPER
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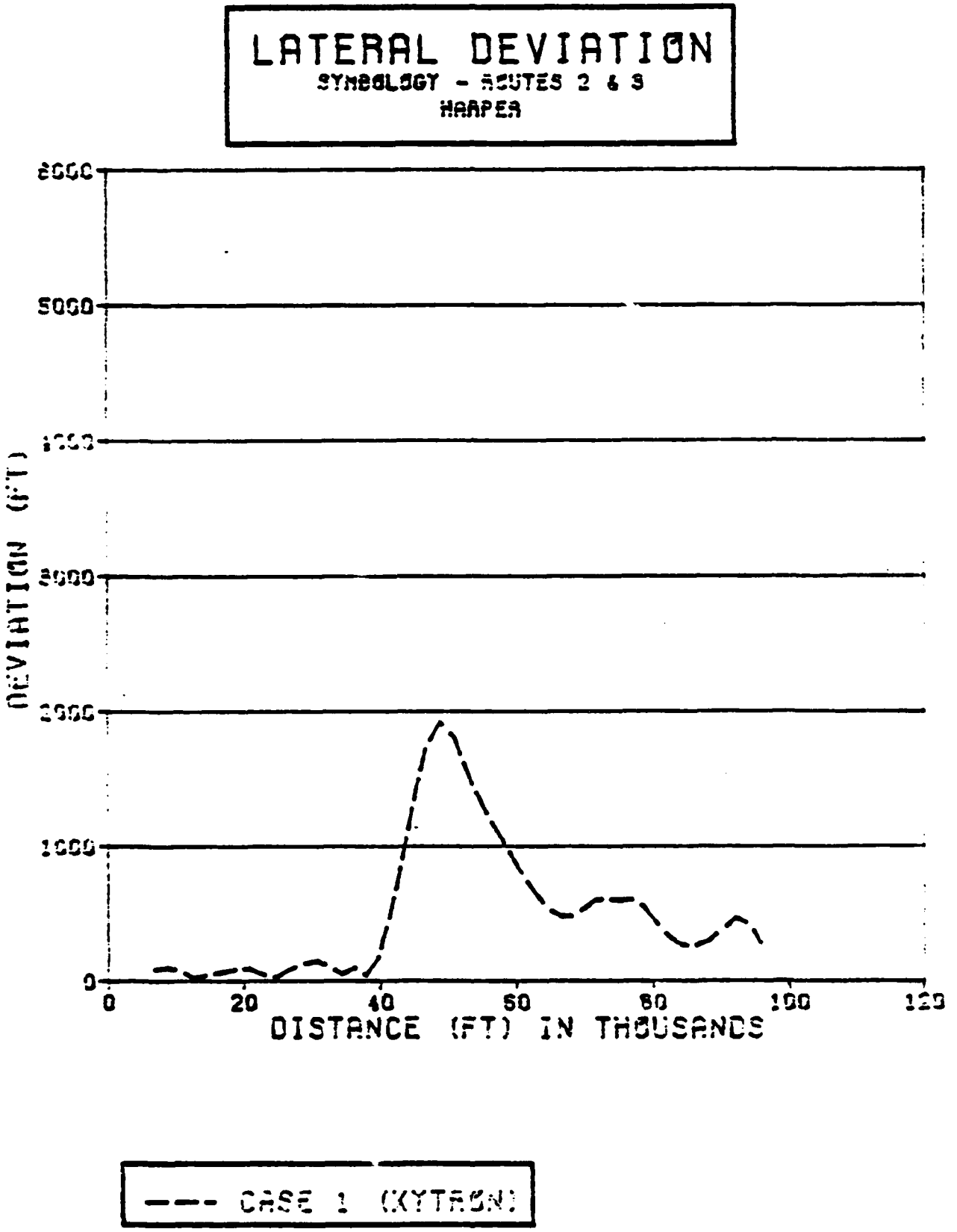
480
500
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (KYTRON)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DEVIATION (FT)
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DISTANCE (FT) IN THOUSANDS
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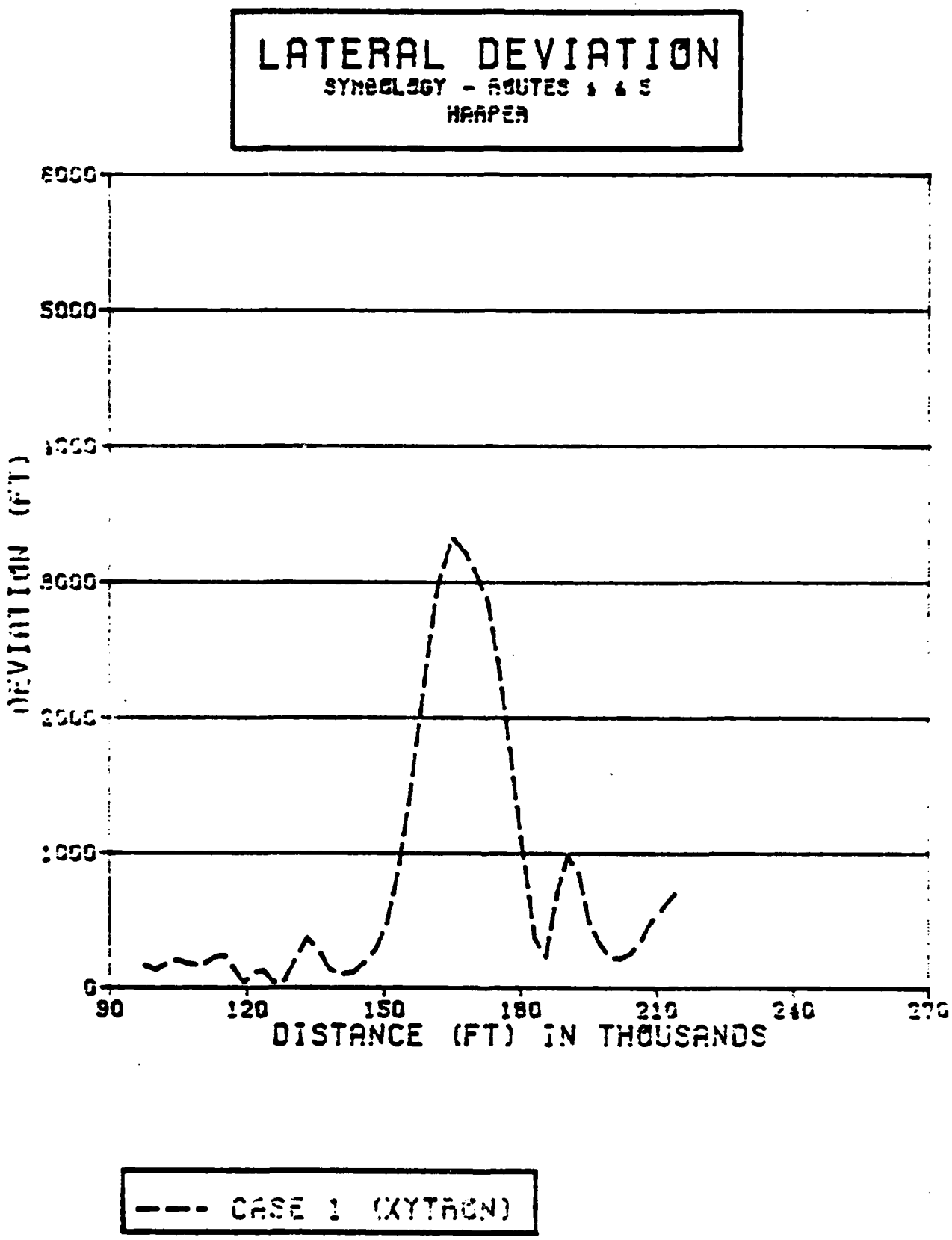
LATERAL DEVIATION
SYMBOLOGY - ROUTES 1 & 5
HARPER
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5000
4000
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DEVIATION (FT)
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120
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DISTANCE (FT) IN THOUSANDS
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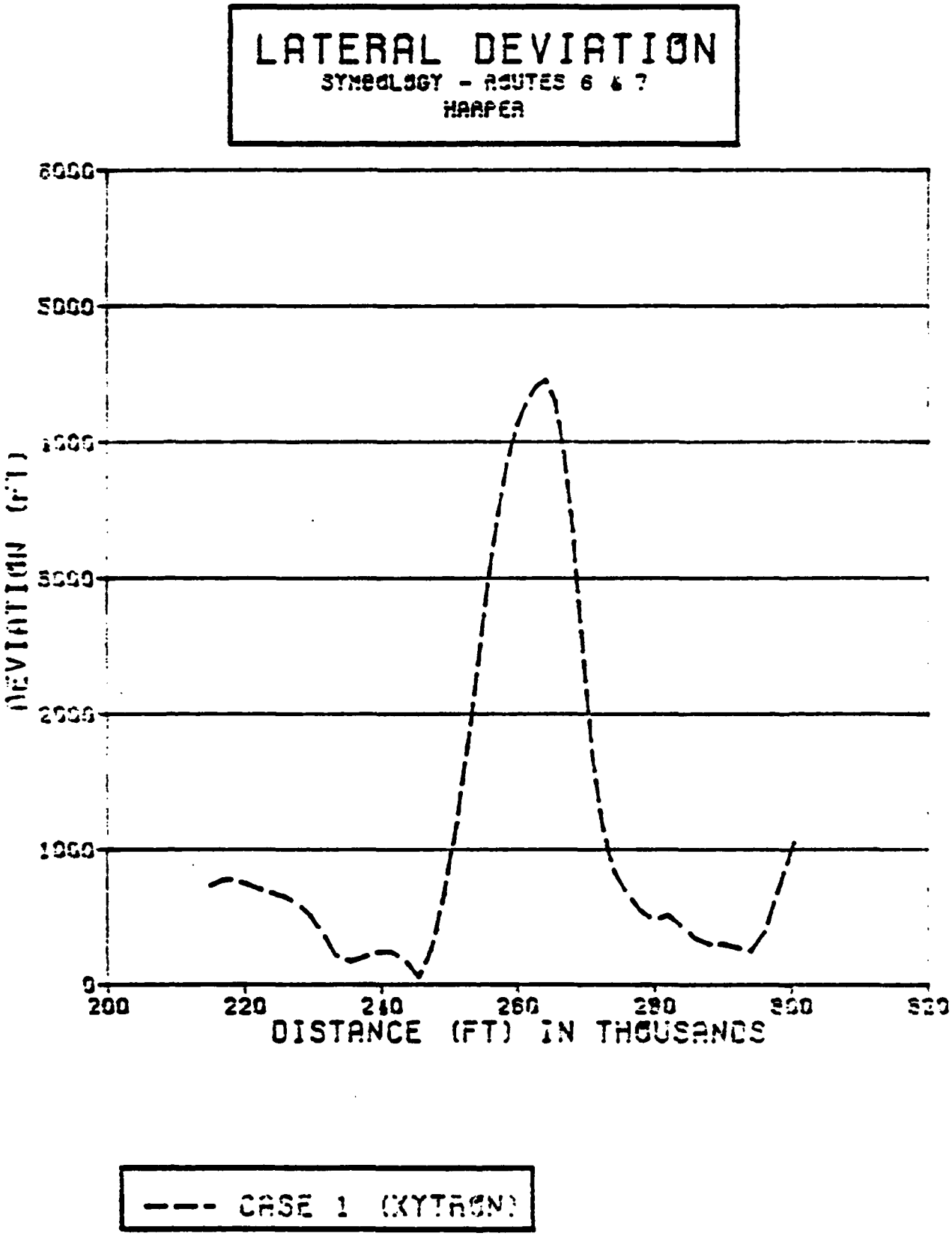
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SYMBOLOGY - ROUTES 6 & 7
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DISTANCE (FT) IN THOUSANDS
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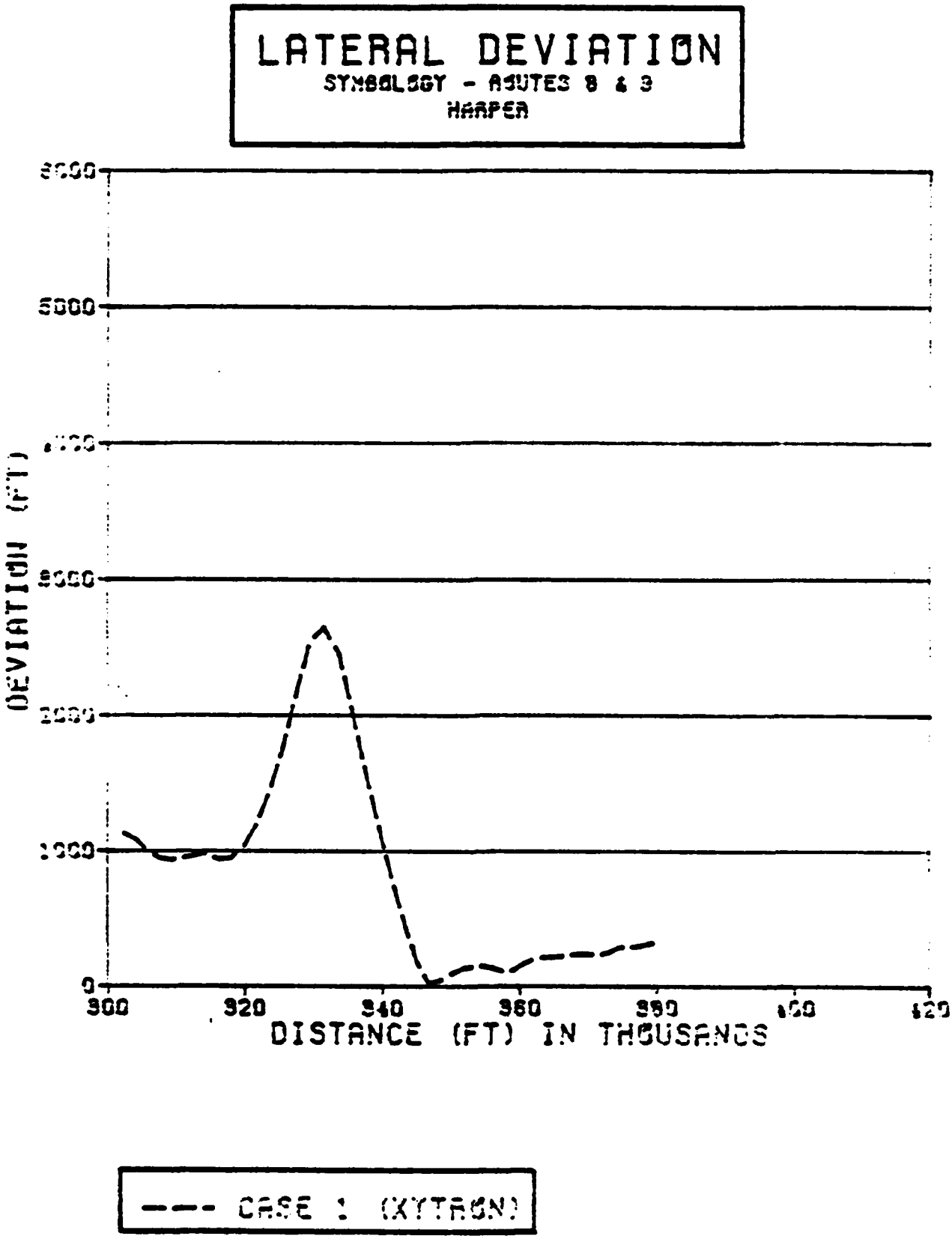
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SYMBOLOGY - ROUTES 8 & 3
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DEVIATION (FT)
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400
420
DISTANCE (FT) IN THOUSANDS
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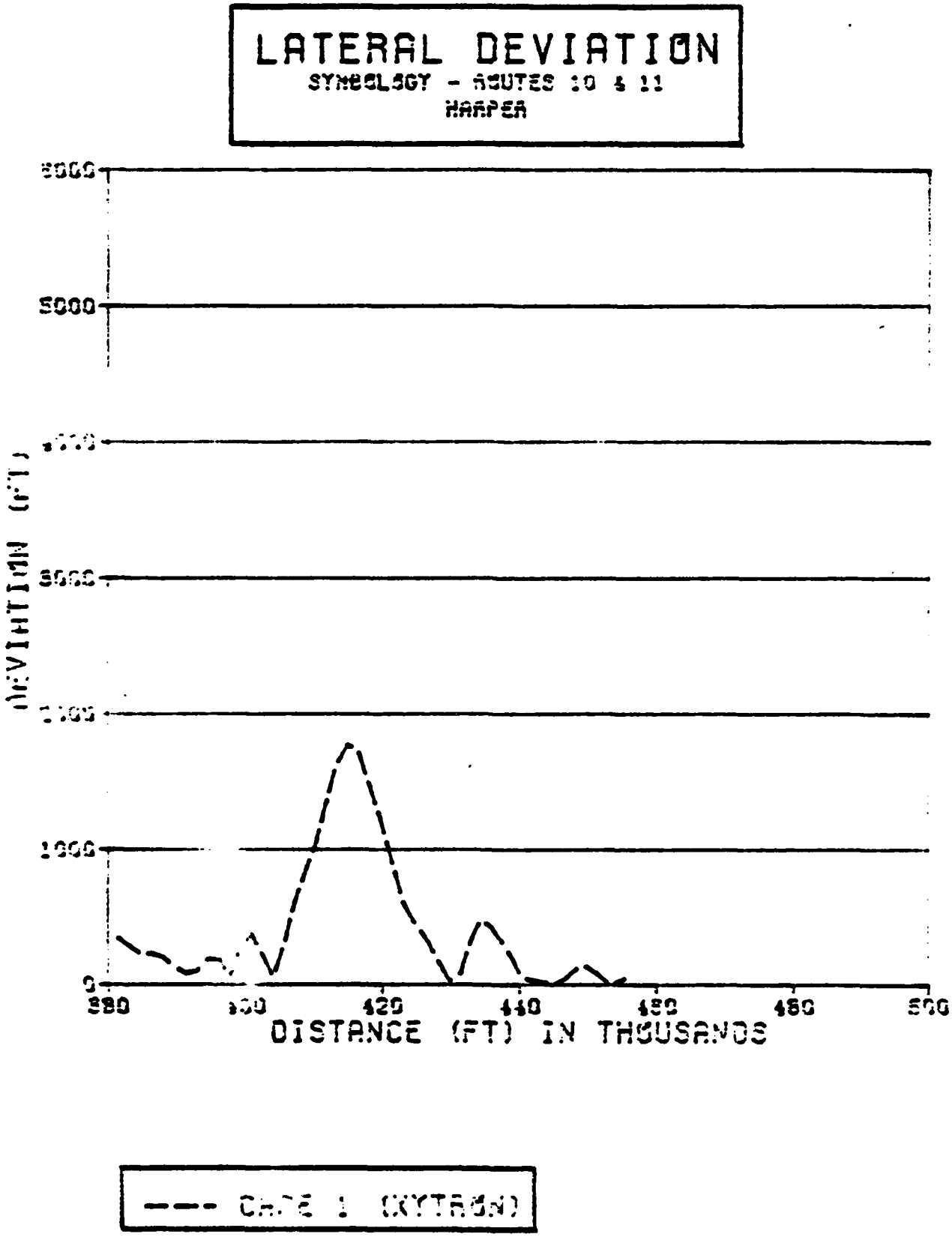
LATERAL DEVIATION
SYMBOLOGY - ROUTES 10 & 11
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DEVIATION (FT)
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480
500
DISTANCE (FT) IN THOUSANDS
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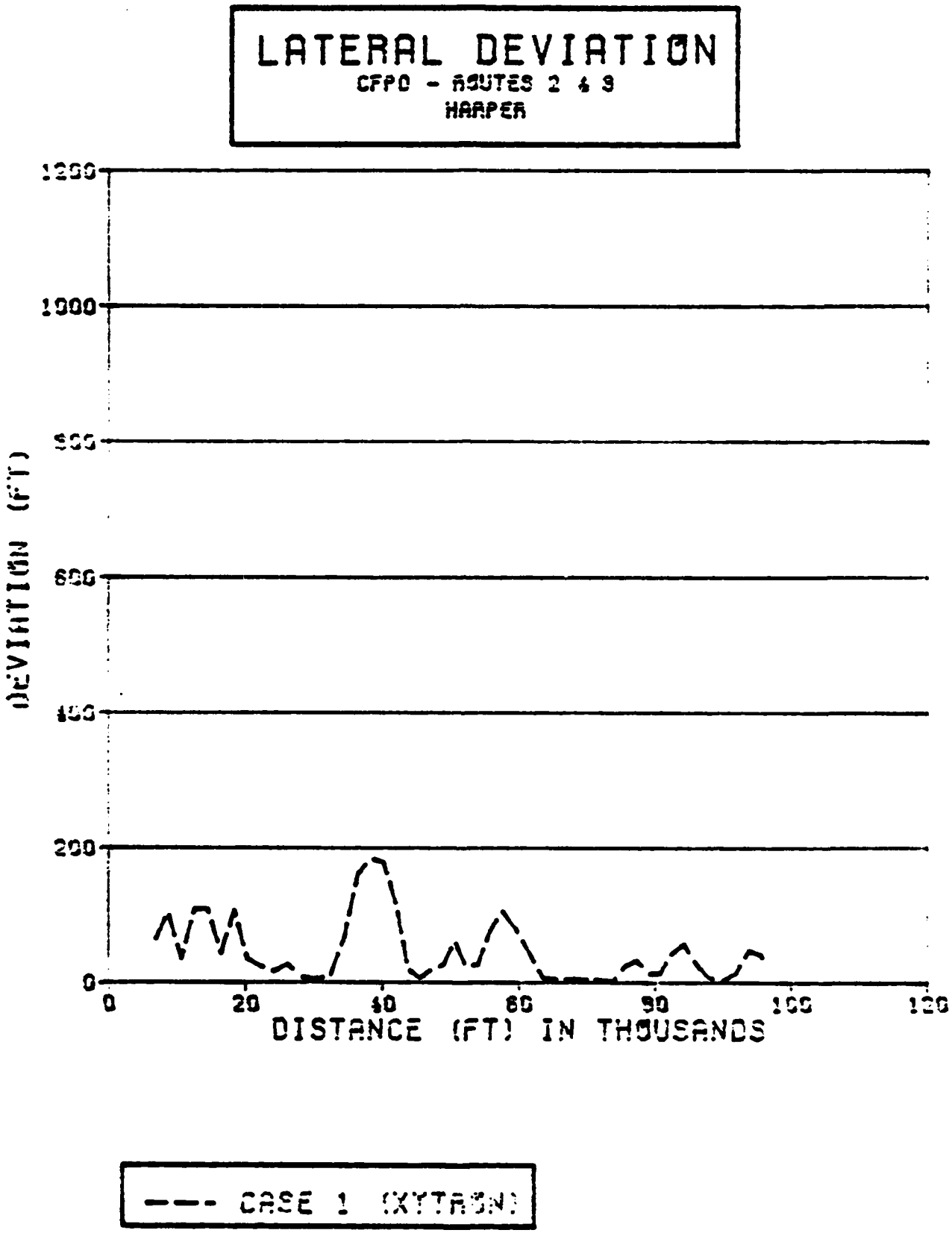
LATERAL DEVIATION
CFPO - ROUTES 2 & 9
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800
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20
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60
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100
120
DISTANCE (FT) IN THOUSANDS
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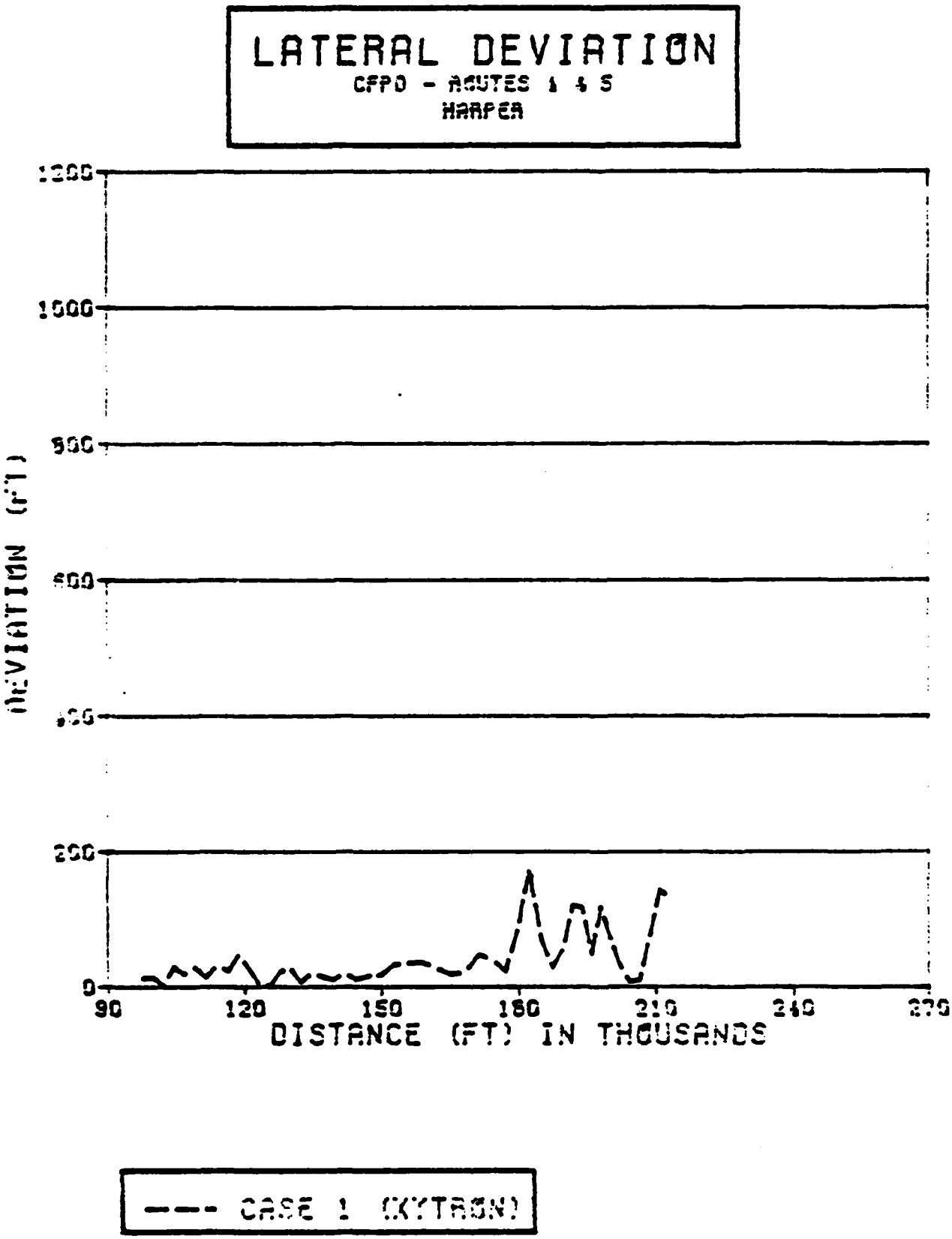
LATERAL DEVIATION
CFPD - ROUTES 1 & 5
HARPER
1200
1000
800
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120
150
180
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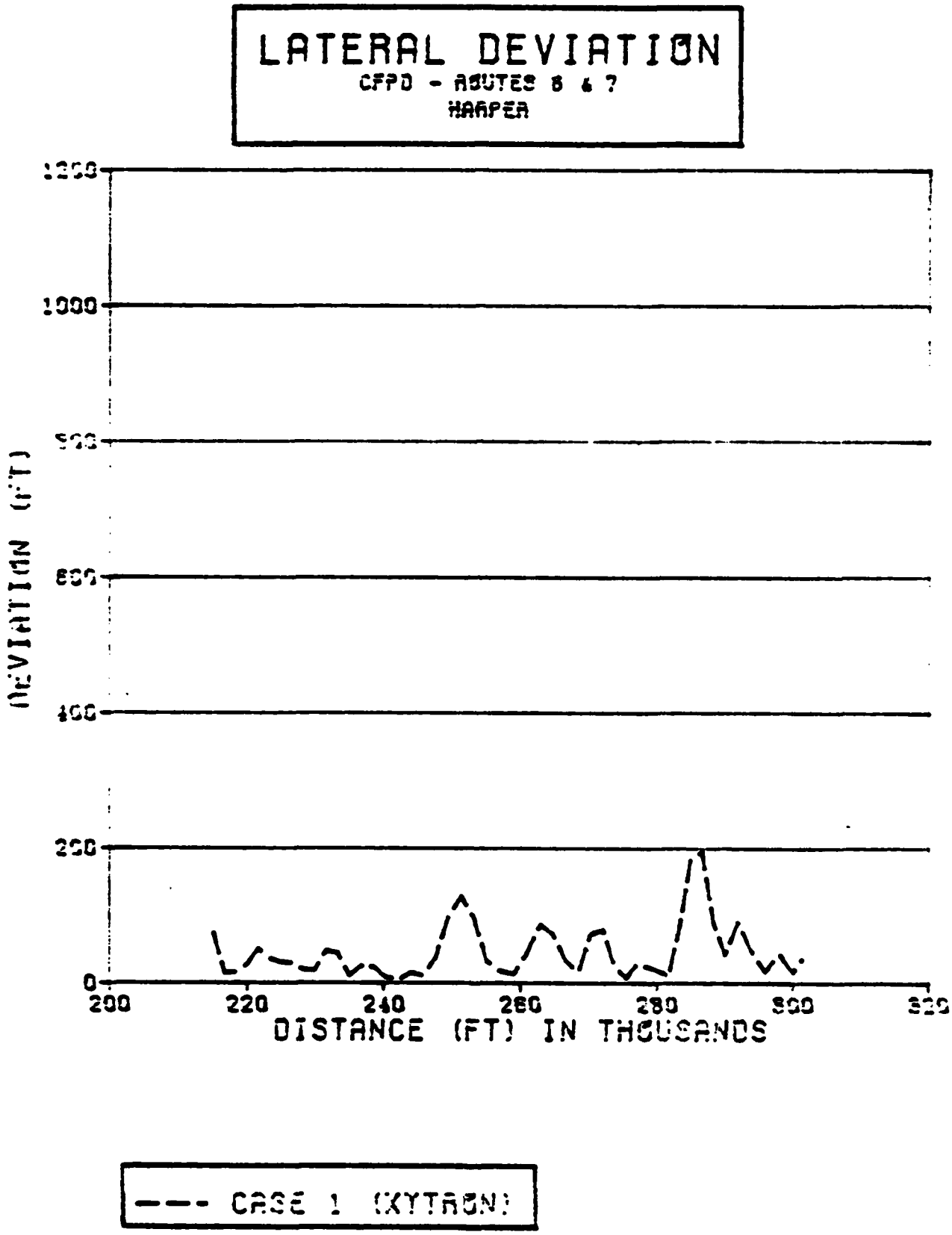
240
270
DISTANCE (FT) IN THOUSANDS
CASE 1 (KYTRON)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CFPD - ROUTES 6 & 7
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1000
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DEVIATION (FT)
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260
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300
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DISTANCE (FT) IN THOUSANDS
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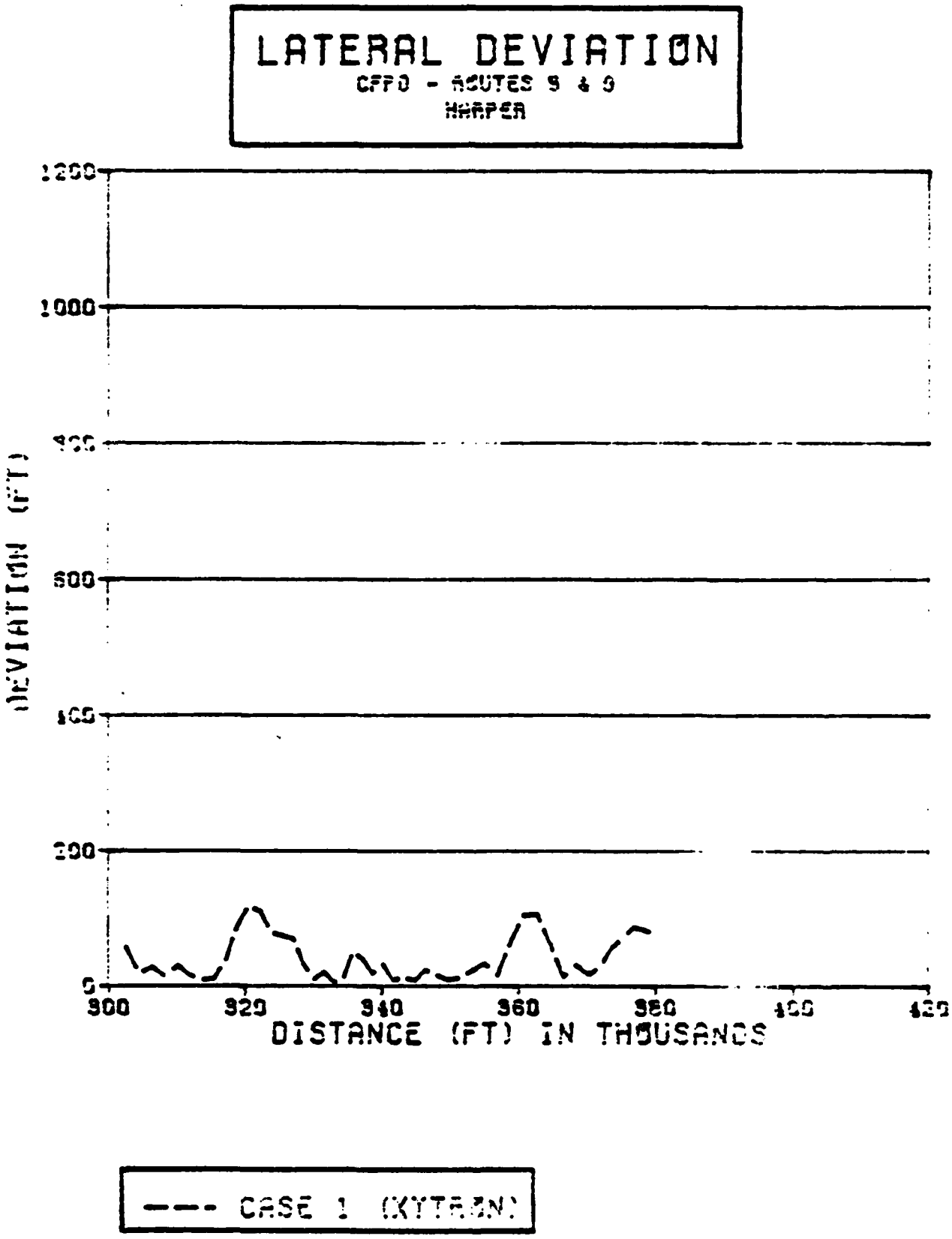
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CFFD - ROUTES 9 & 9
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360
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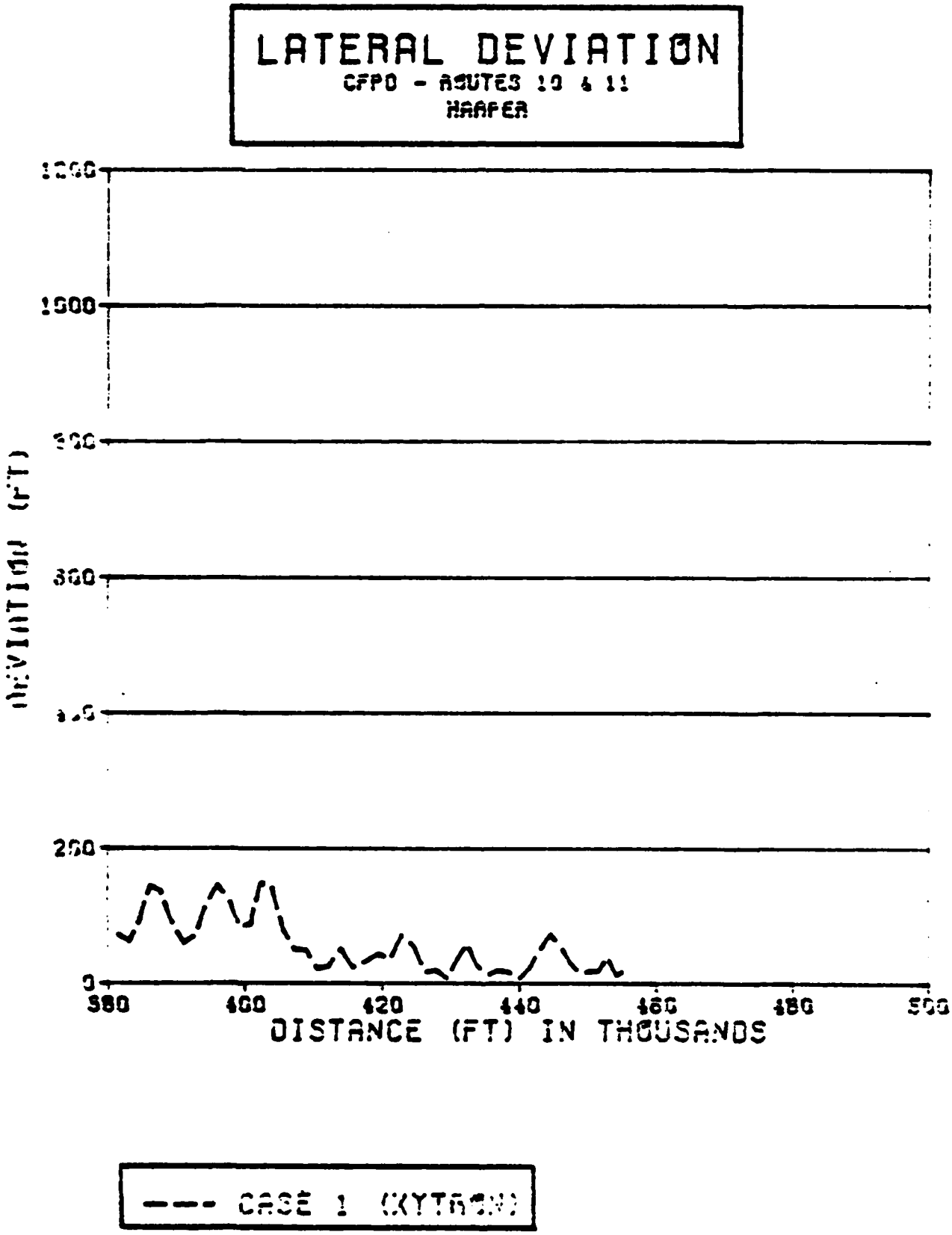
400
420
DISTANCE (FT) IN THOUSANDS
CASE 1 (KYTRAN)


LATERAL DEVIATION
CFPD - ROUTES 10 & 11
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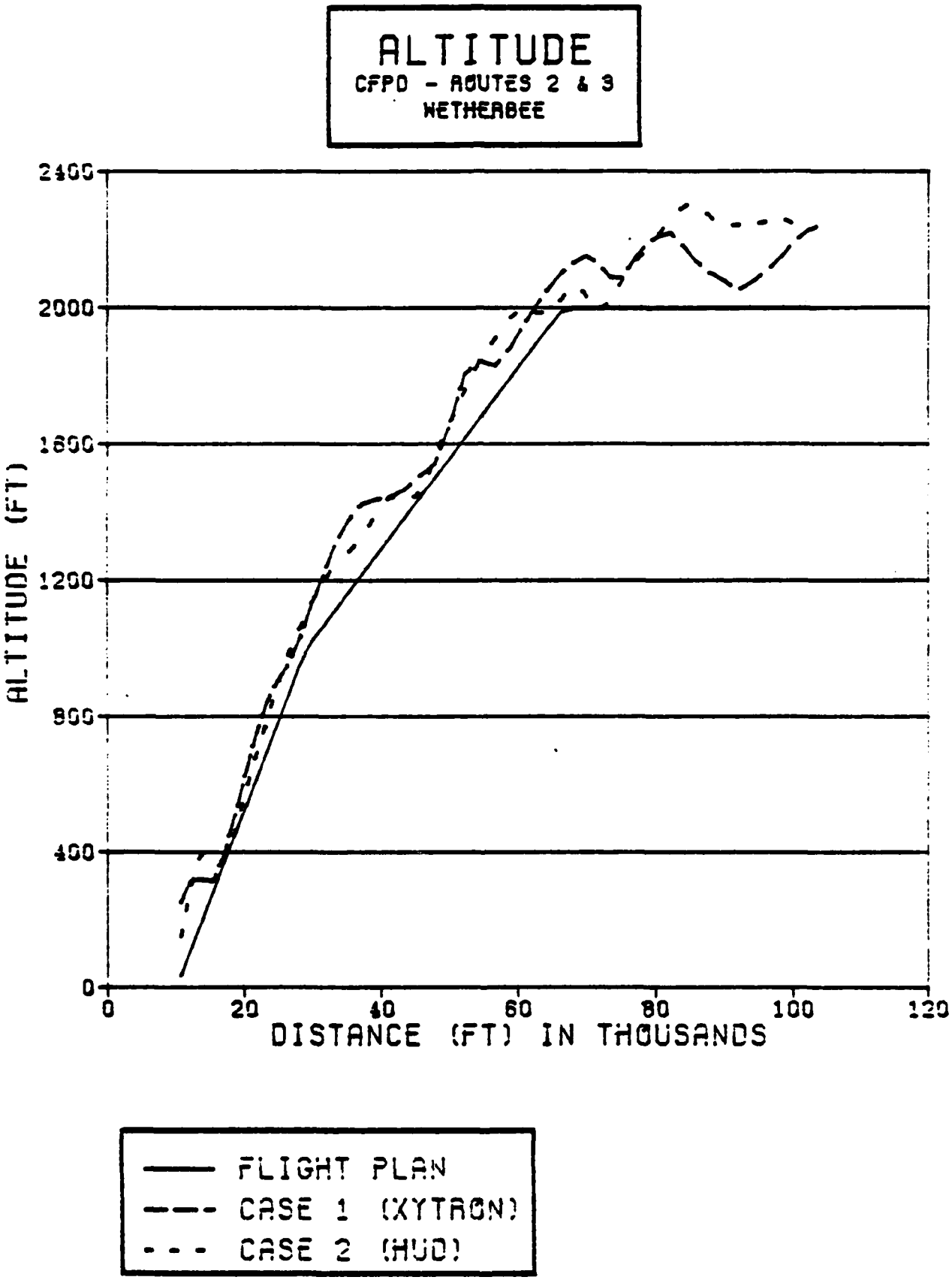
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
CASE 1 (KYTRON)


ALTITUDE
CFPD - ROUTES 2 & 3
WETHERBEE
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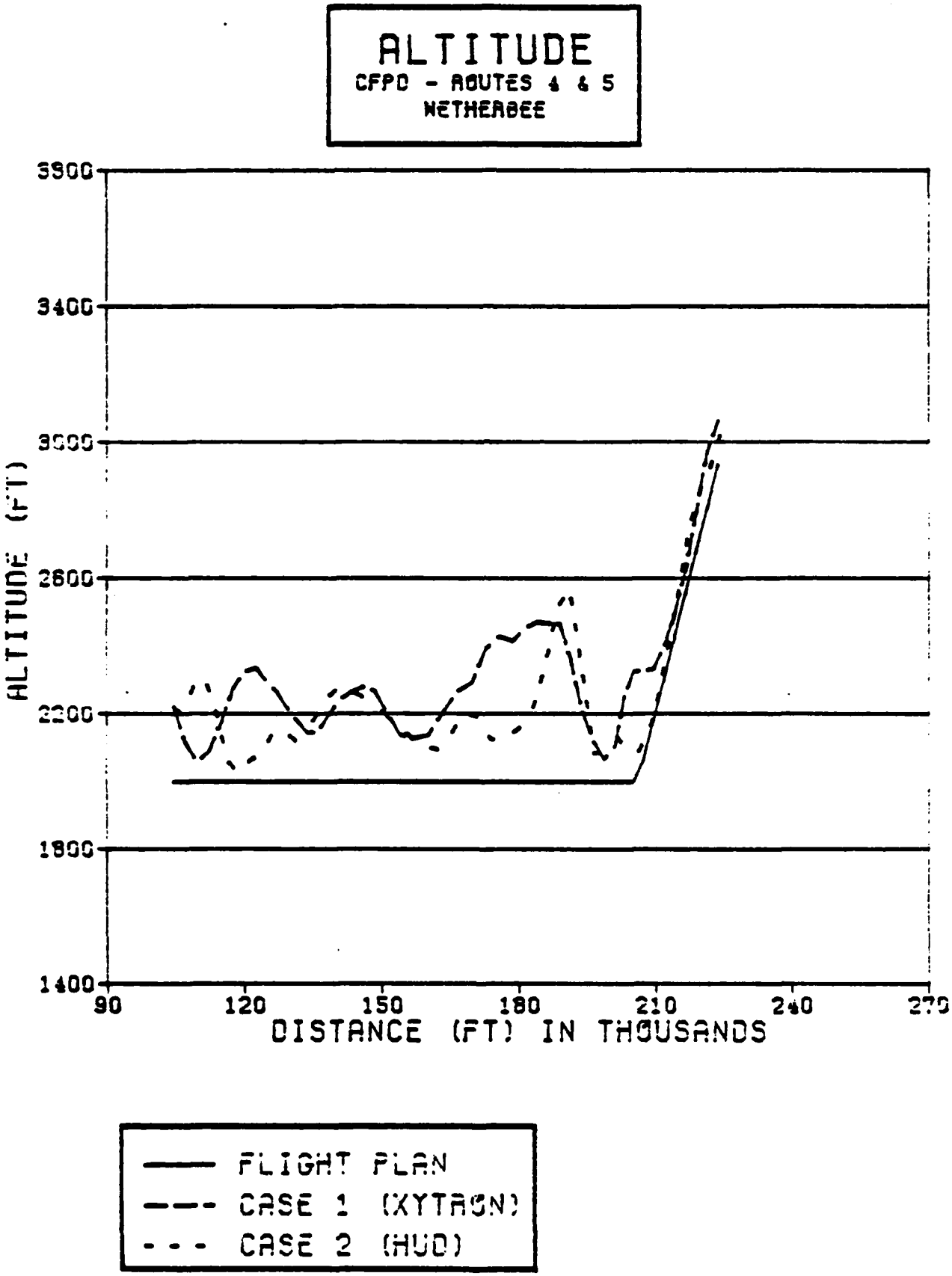
2000
1600
1200
800
400
0
ALTITUDE (FT)
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)
CASE 2 (HUD)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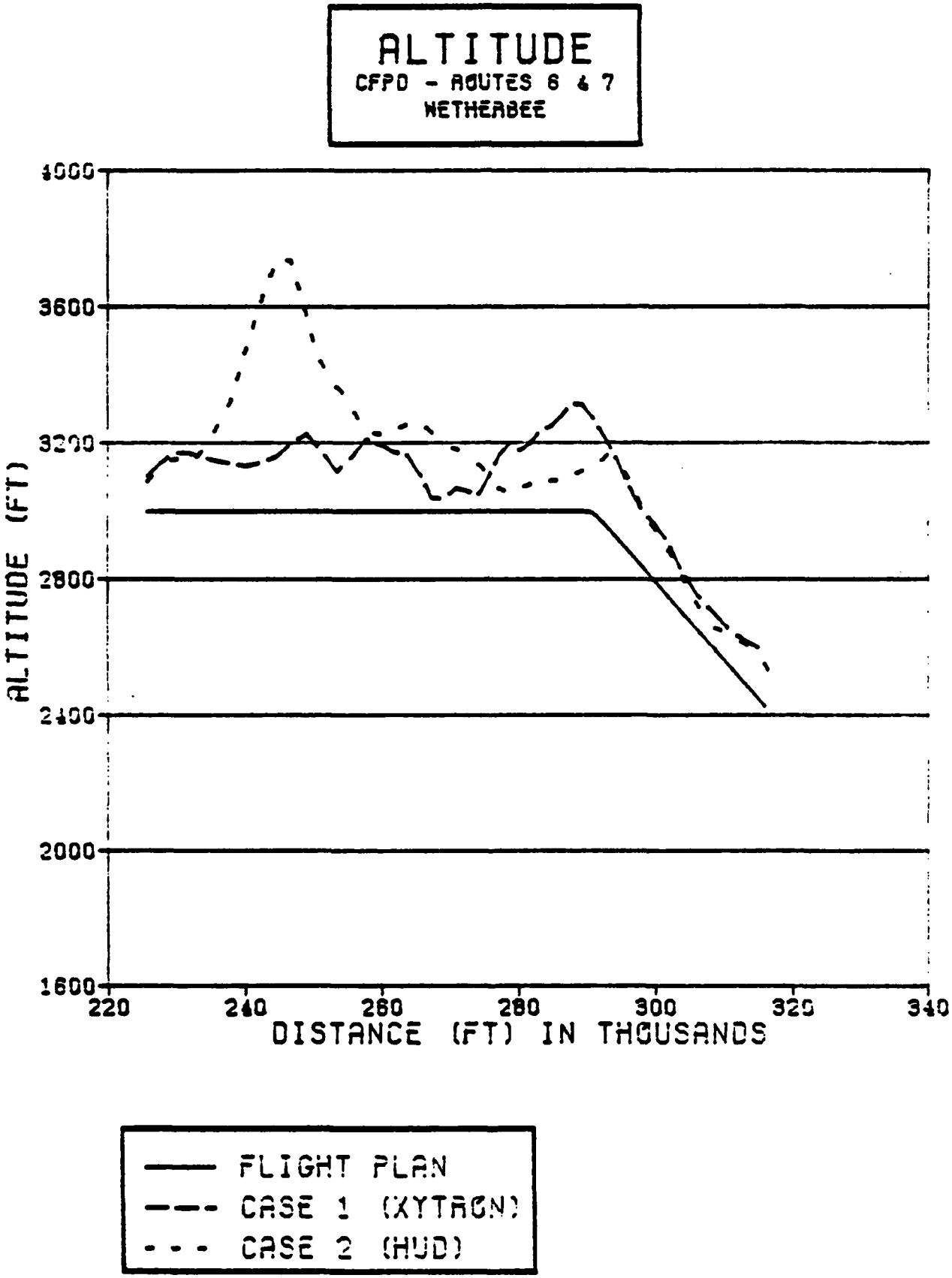
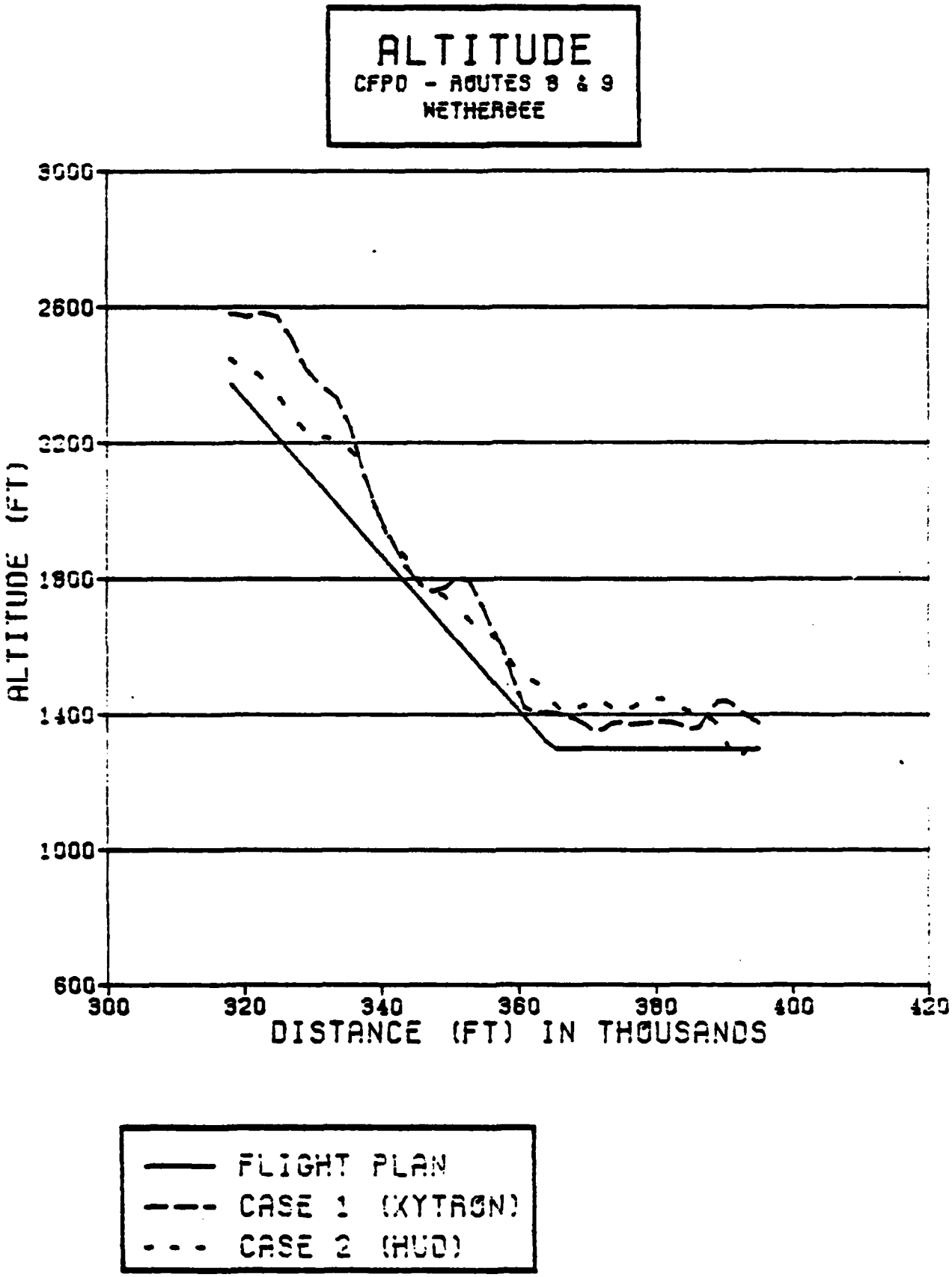
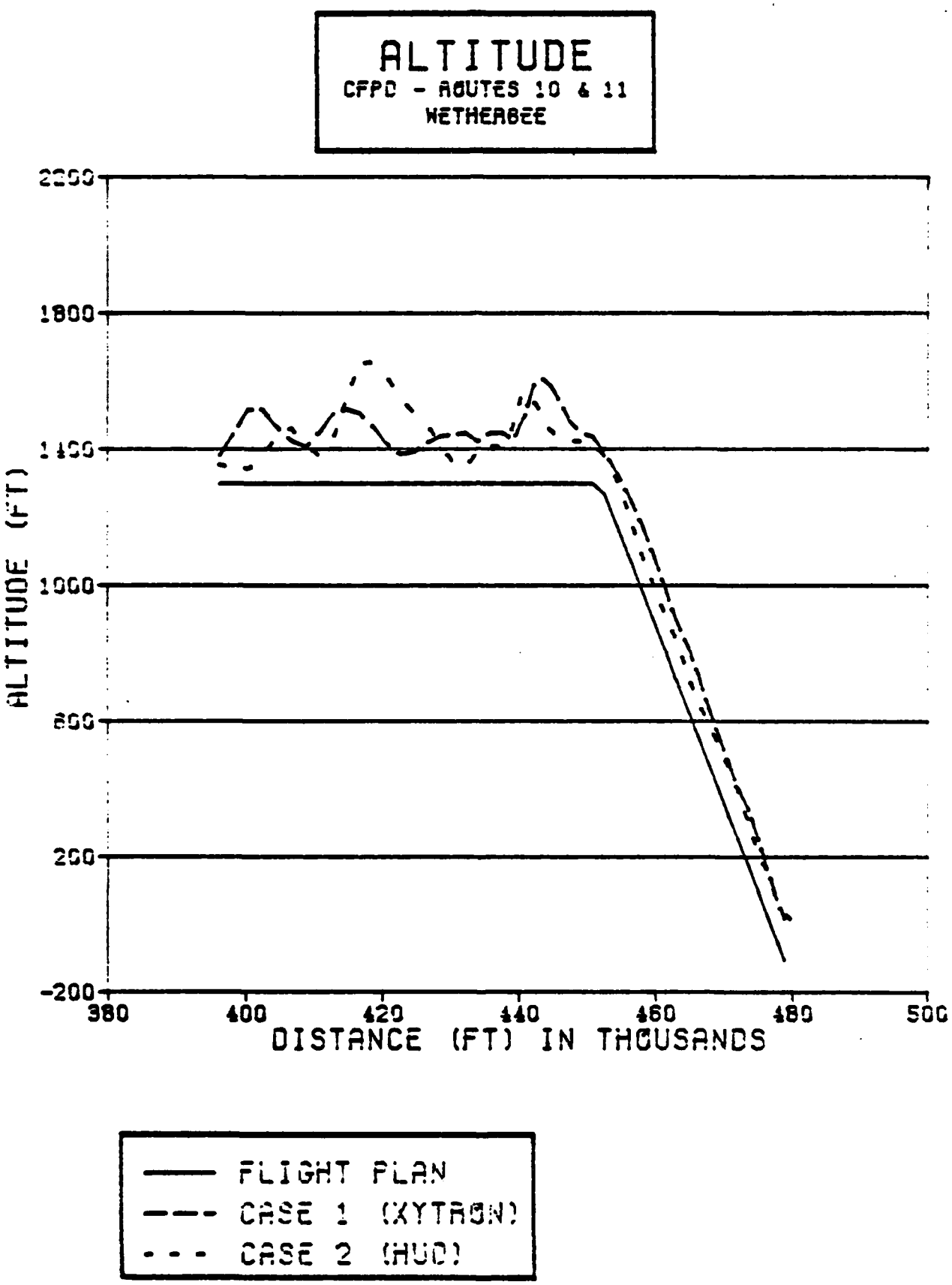
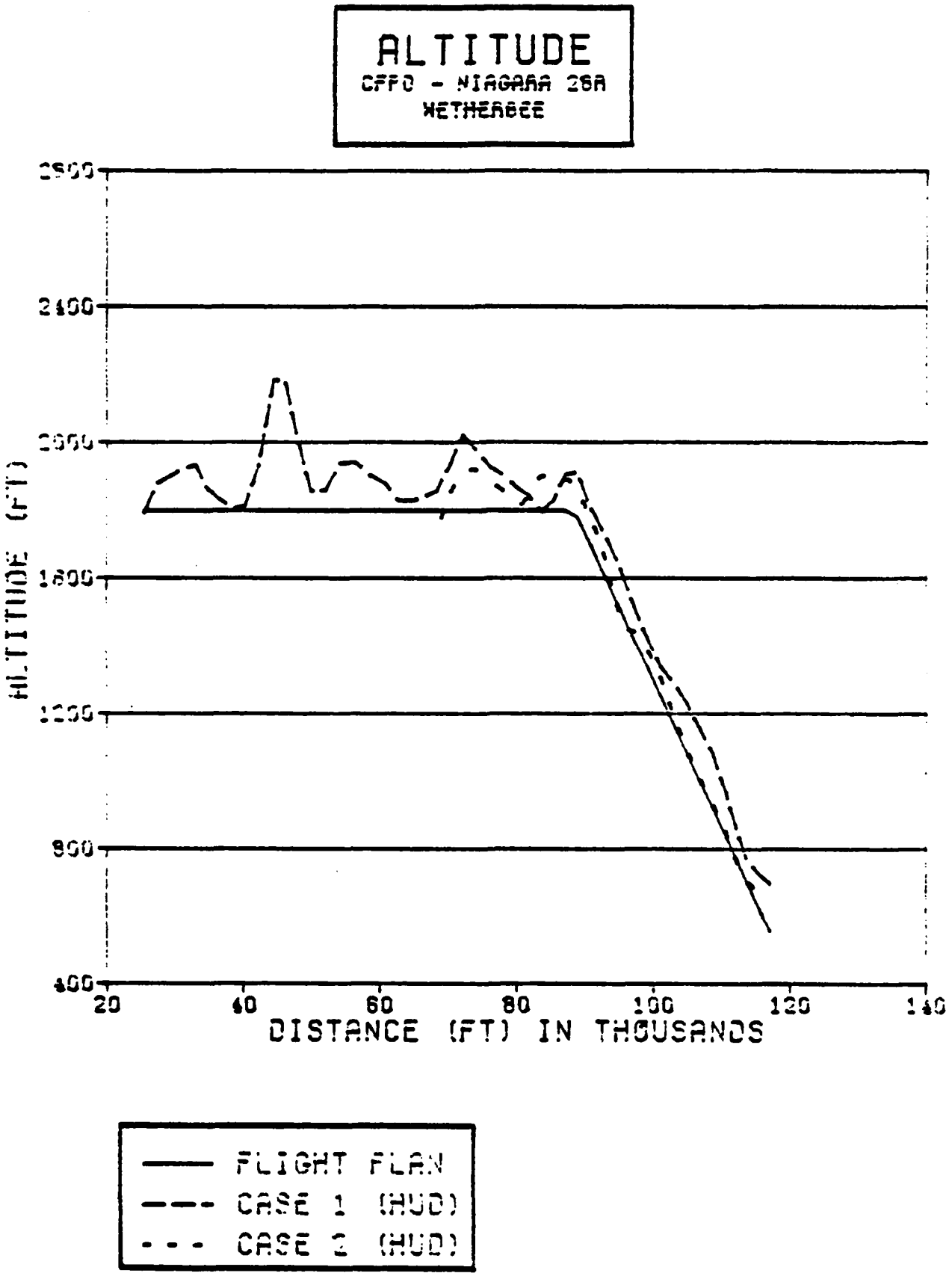
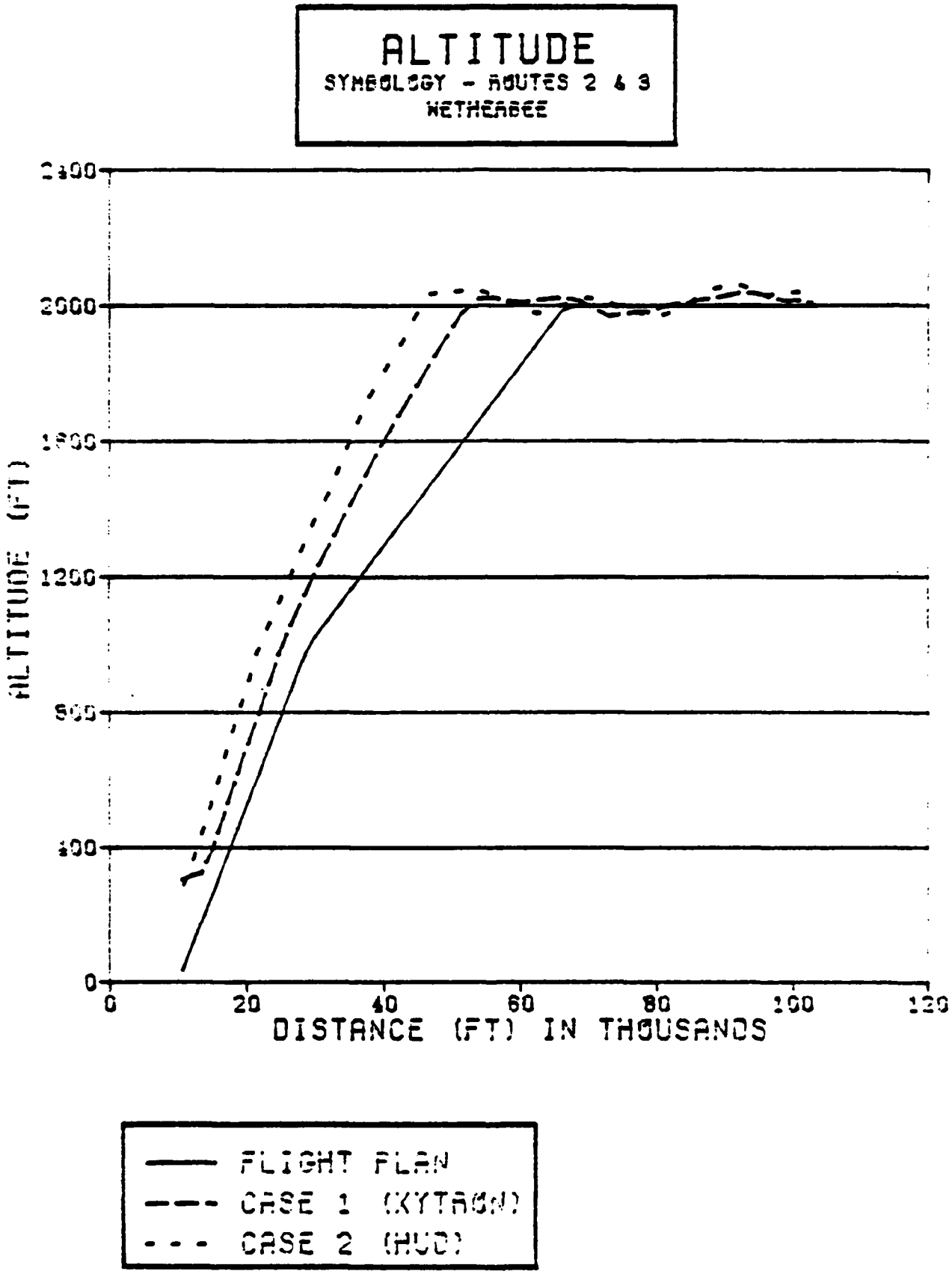
CFPD - ROUTES 4 & 5
WETHERBEE
3800
3400
3000
2600
2200
1800
1400
ALTITUDE (FT)
90
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)
CASE 2 (HUD)

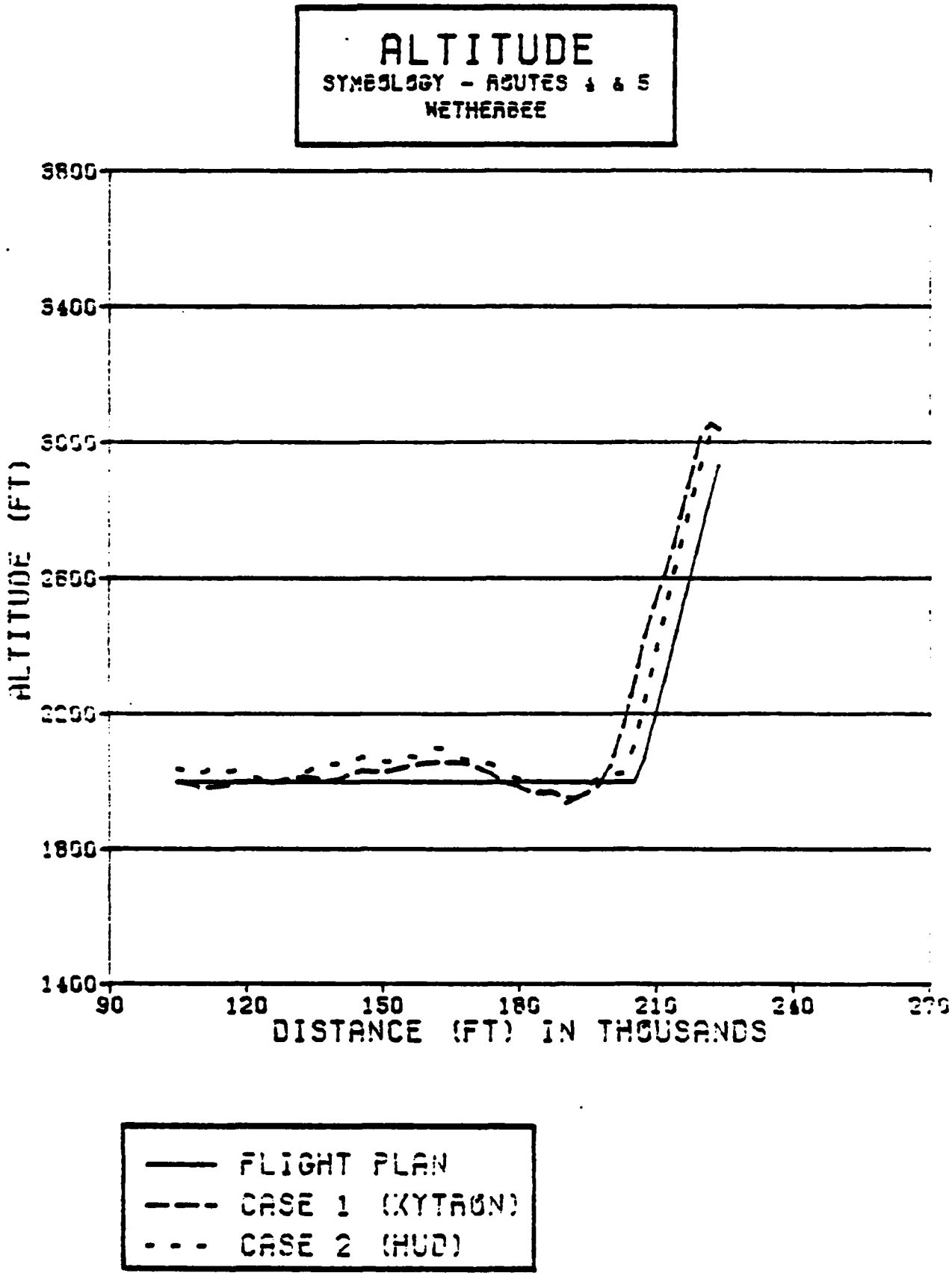

ALTITUDE
CFPD - ROUTES 6 & 7
WETHERBEE
4000
3600
3200
2800
2400
2000
1600
ALTITUDE (FT)
220
240
260
280
300
320
340
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)
CASE 2 (HUD)

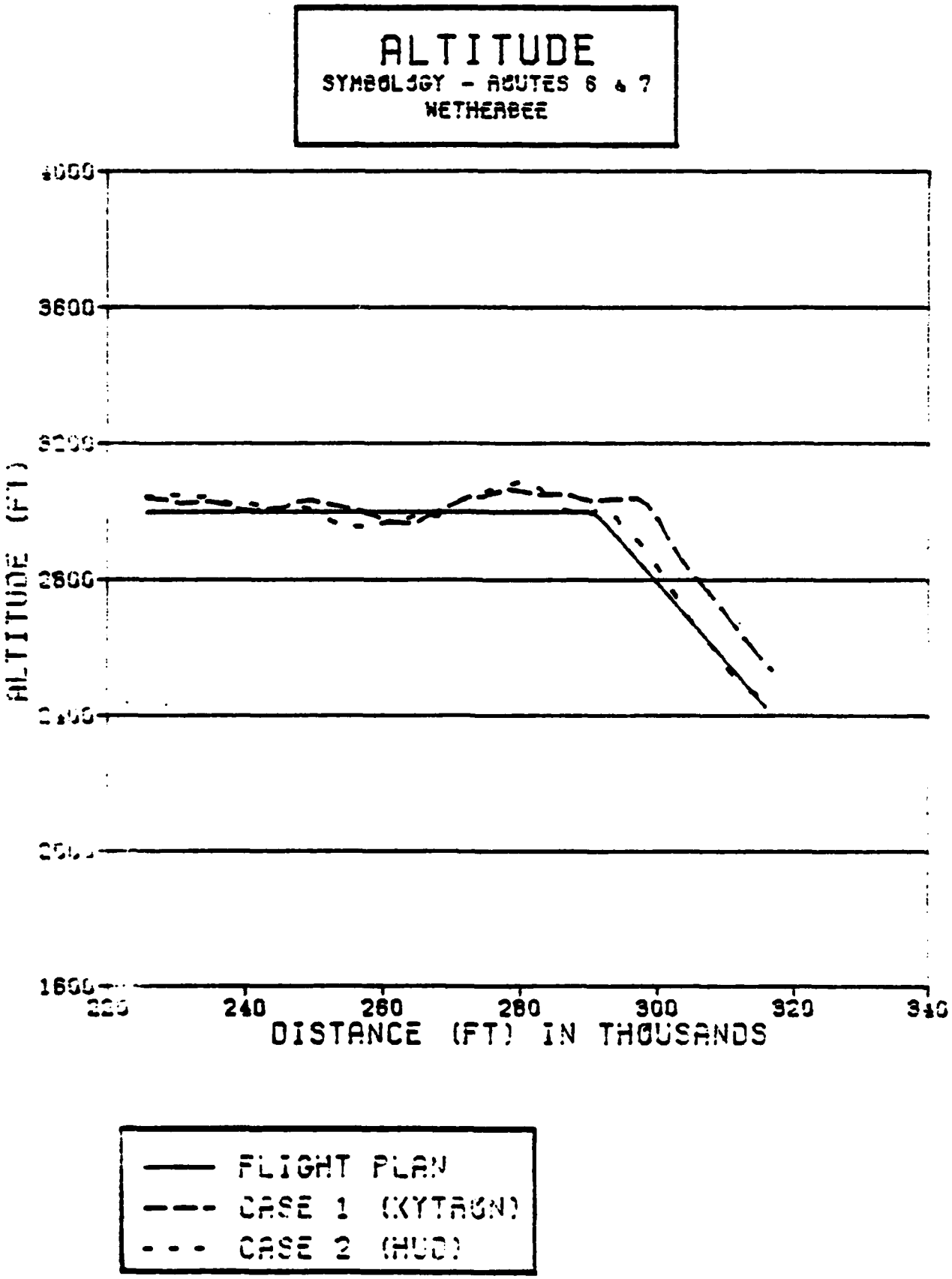

ALTITUDE
CFPO - ROUTES 8 & 9
WETHERBEE
3000
2600
2200
1800
1400
1000
600
ALTITUDE (FT)
300
320
340
360
380
400
420
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)
CASE 2 (HUD)

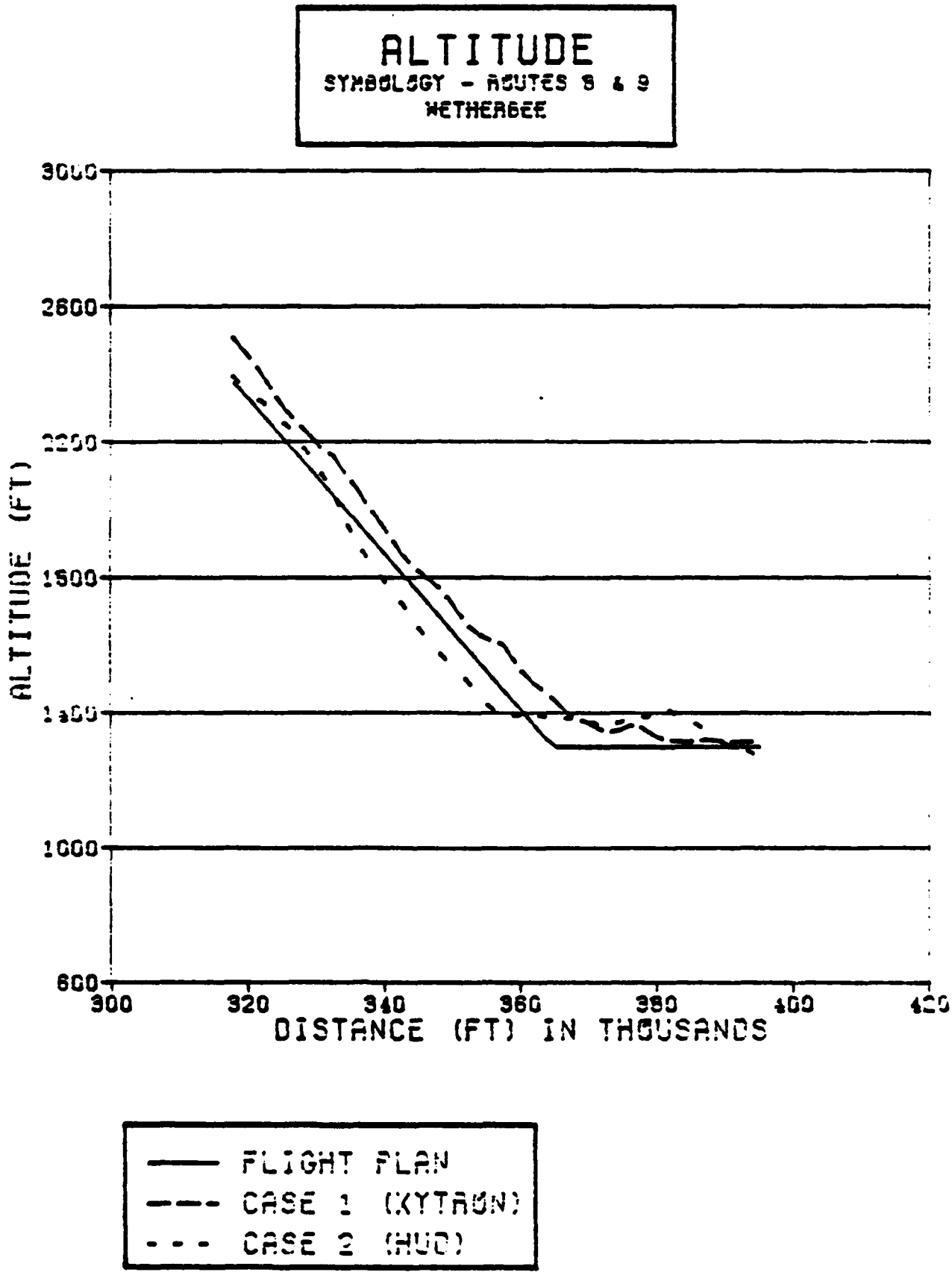

ALTITUDE
CFPD - ROUTES 10 & 11
WETHERBEE
2200
1800
1400
1000
600
200
-200
ALTITUDE (FT)
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)
CASE 2 (HUD)

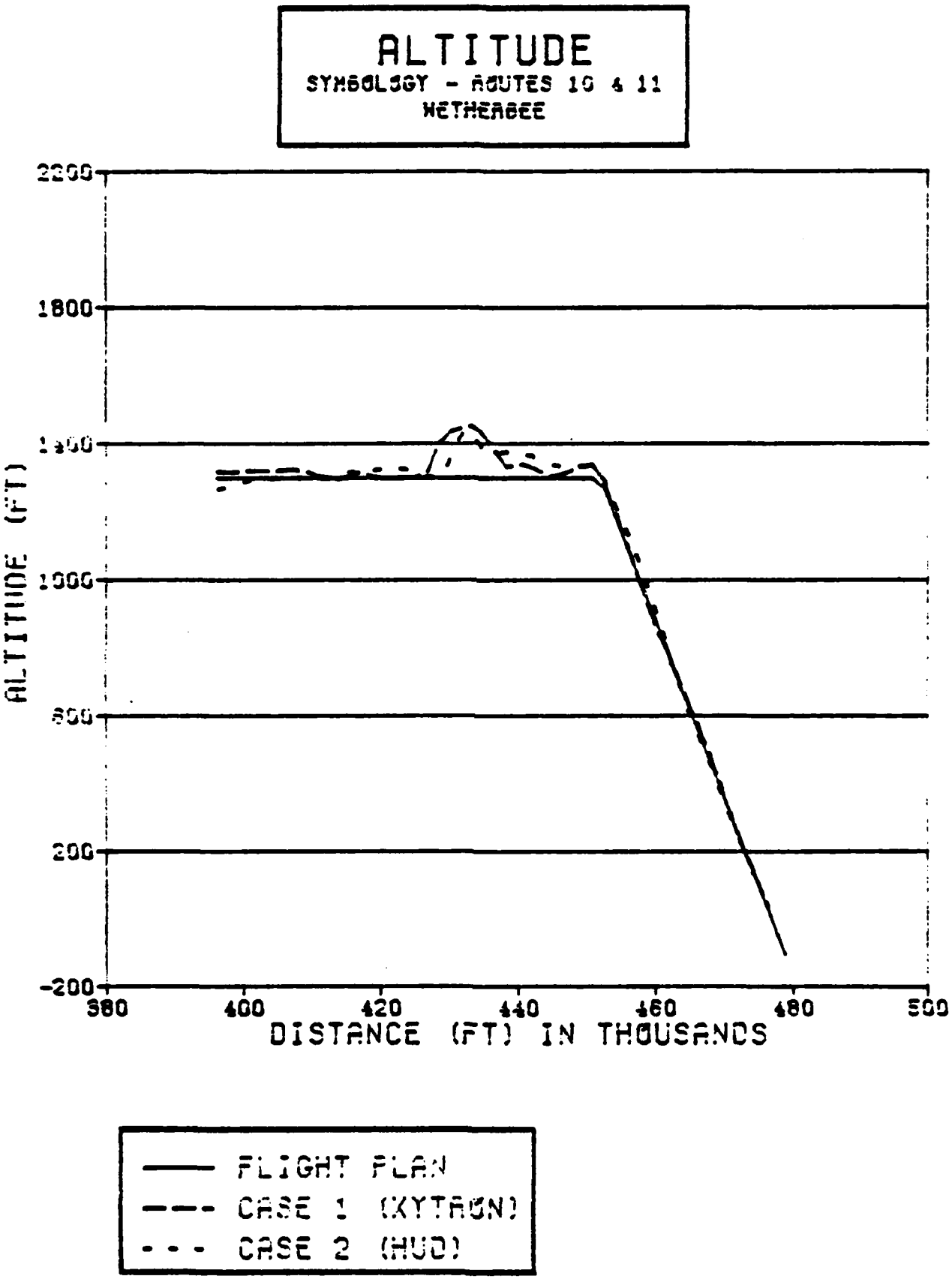

ALTITUDE
CFPO - NIAGARA 28A
WETHERBEE
2400
2000
1600
1200
800
400
ALTITUDE (FT)
20
40
60
80
100
120
140
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (HUD)
CASE 2 (HUD)

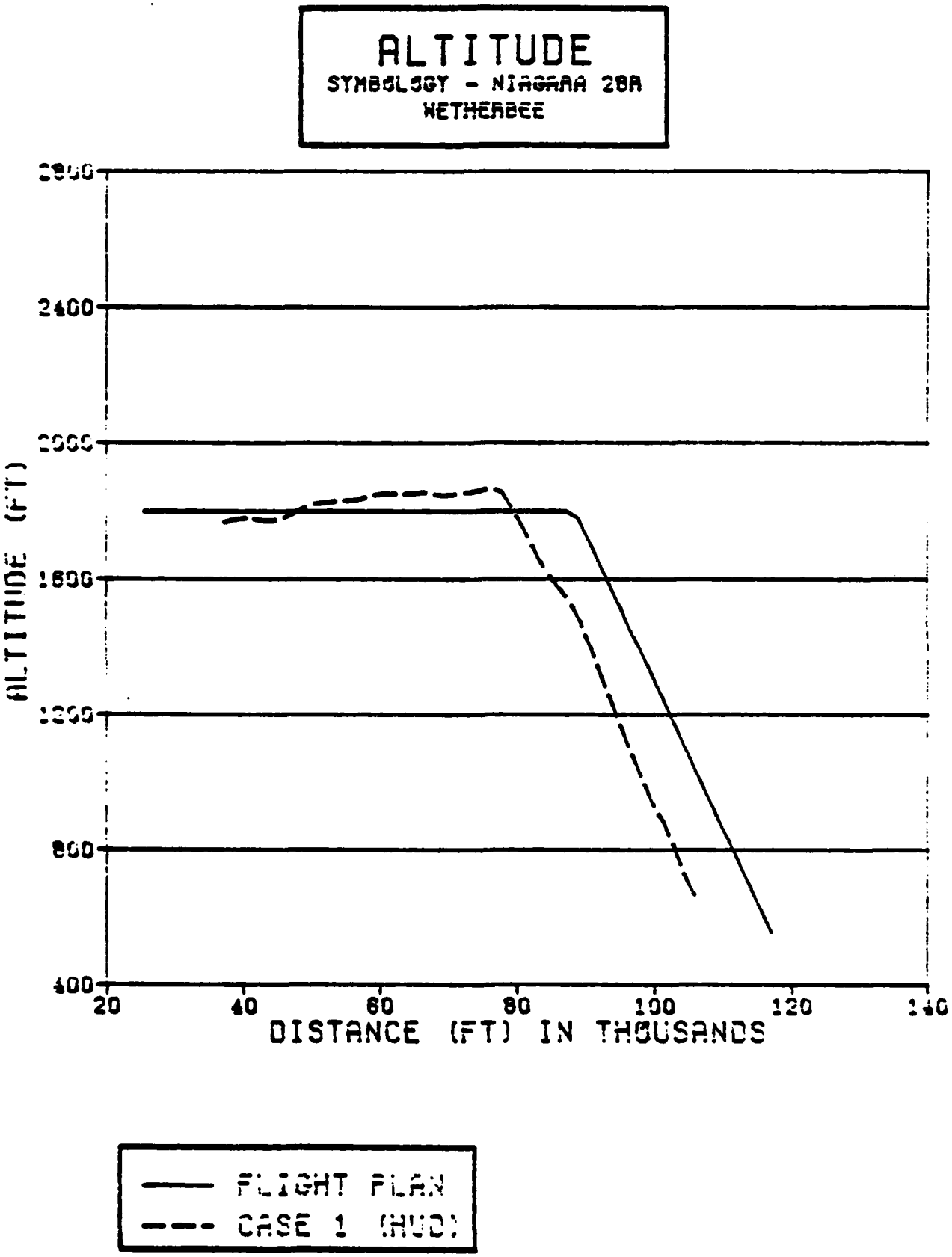

ALTITUDE
SYMBOLOGY - ROUTES 2 & 3
WETHERBEE
2400
2000
1600
1200
800
400
0
ALTITUDE (FT)
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)
CASE 2 (HUD)

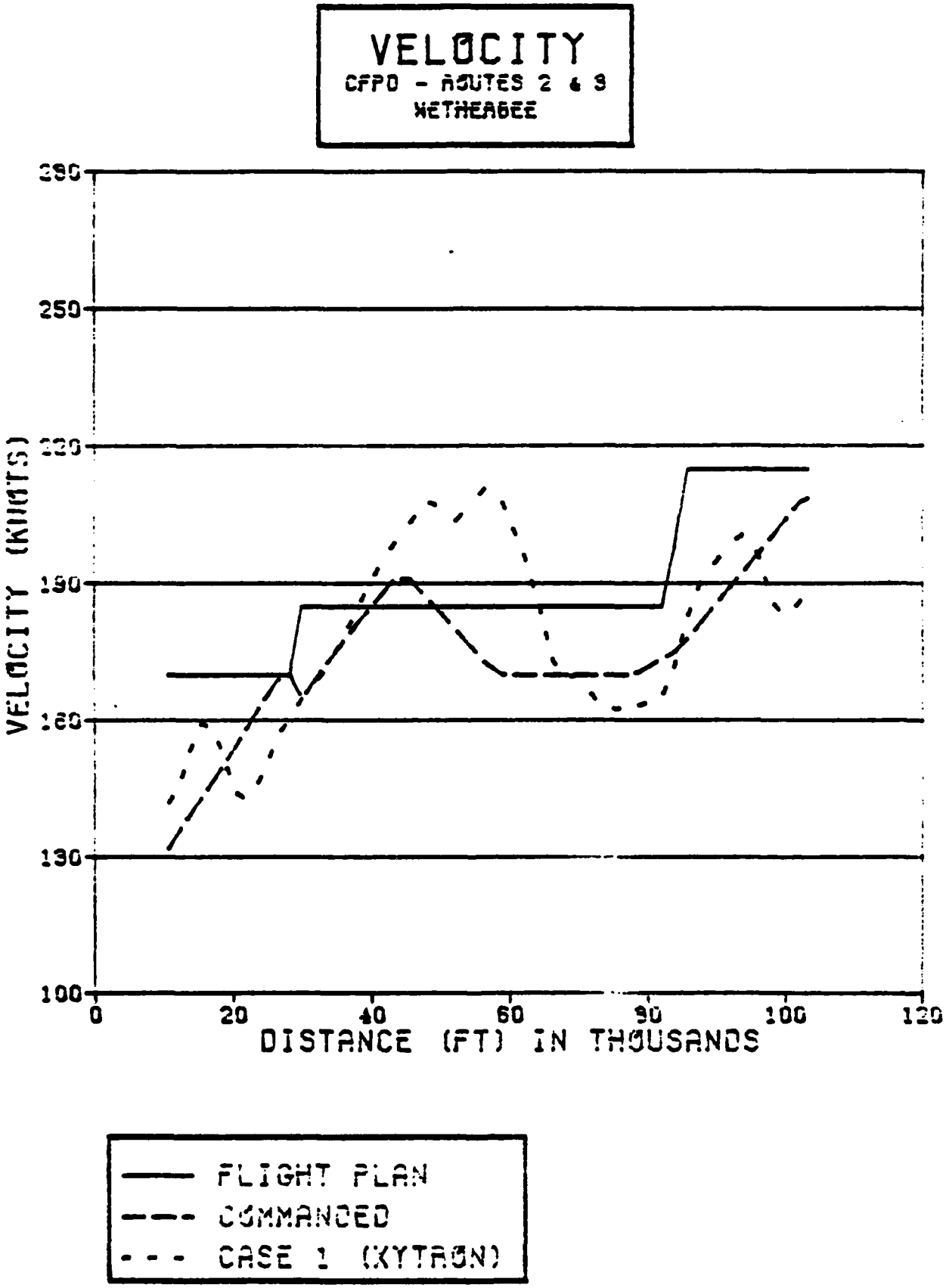

ALTITUDE
SYMBOLOGY - ROUTES 1 & 5
WETHERBEE
3800
3400
3000
2600
2200
1800
1400
ALTITUDE (FT)
90
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)
CASE 2 (HUD)

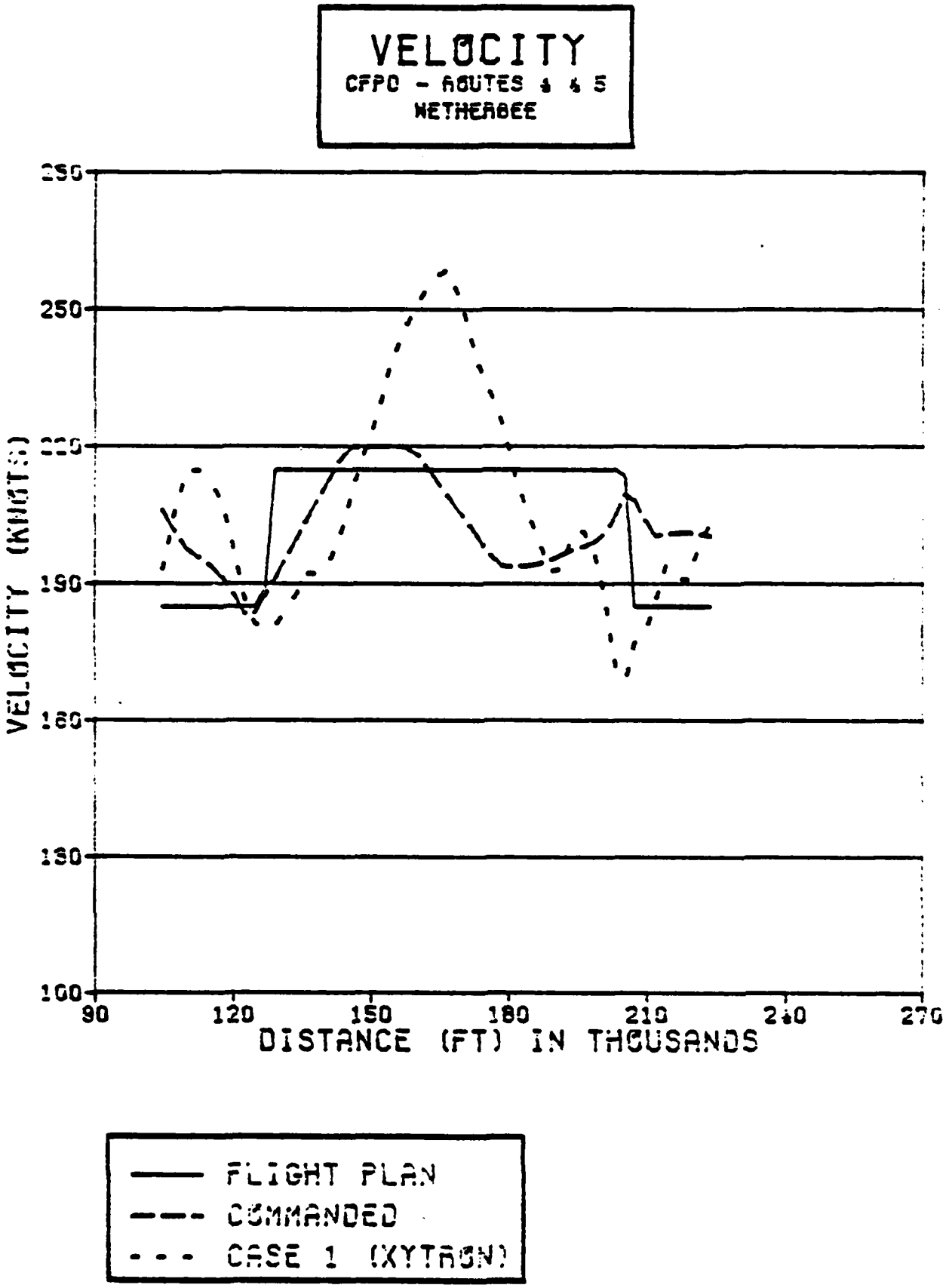

ALTITUDE
SYMBOLOGY - ROUTES 6 & 7
WETHERBEE
3600
2800
1600
240
260
280
300
320
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (KYTRON)
CASE 2 (HUD)

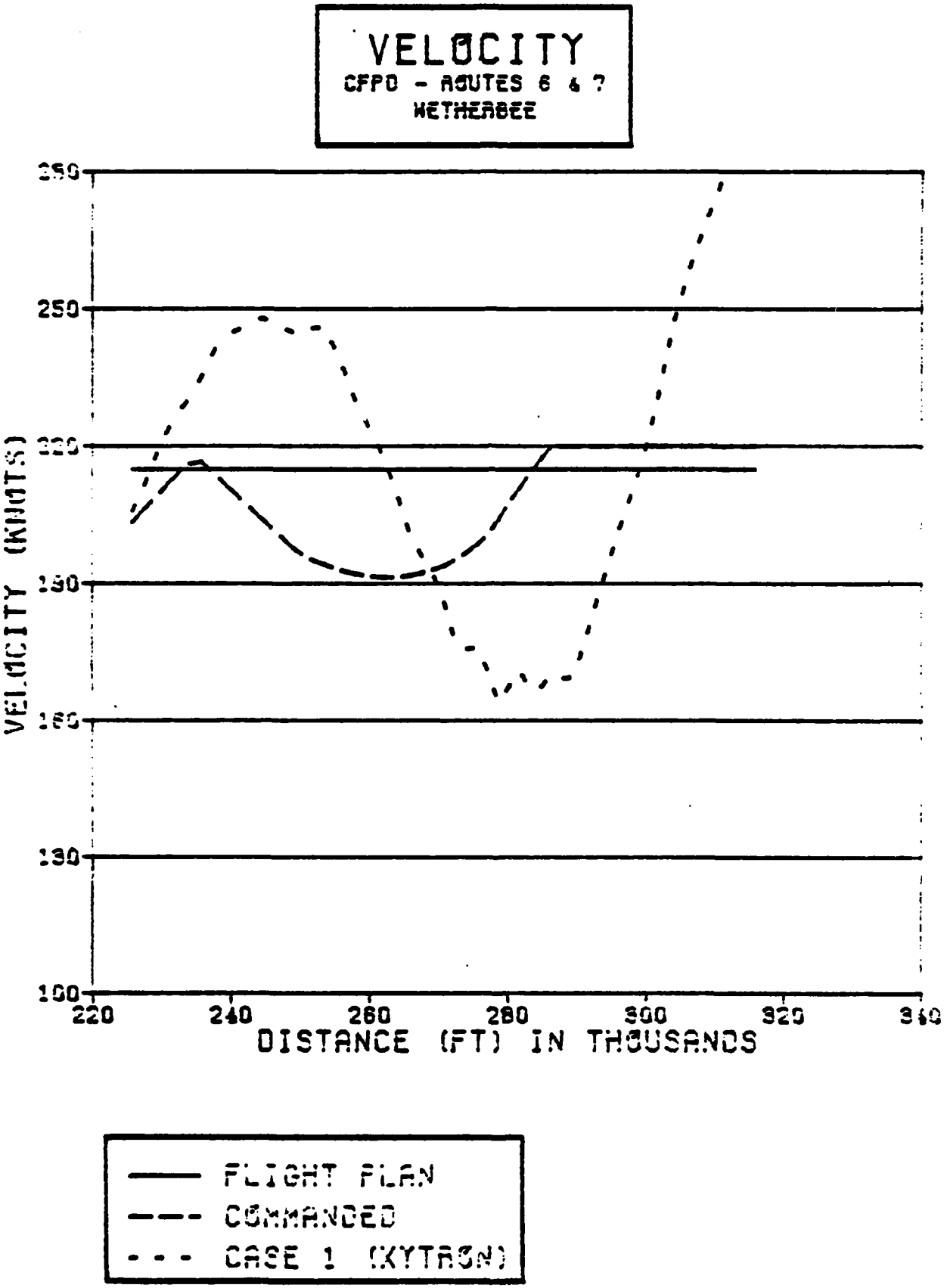

ALTITUDE
SYMBOLOGY - ROUTES 8 & 9
WETHERBEE
3000
2500
2000
1500
1000
500
ALTITUDE (FT)
300
320
340
360
380
400
420
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)
CASE 2 (HUD)

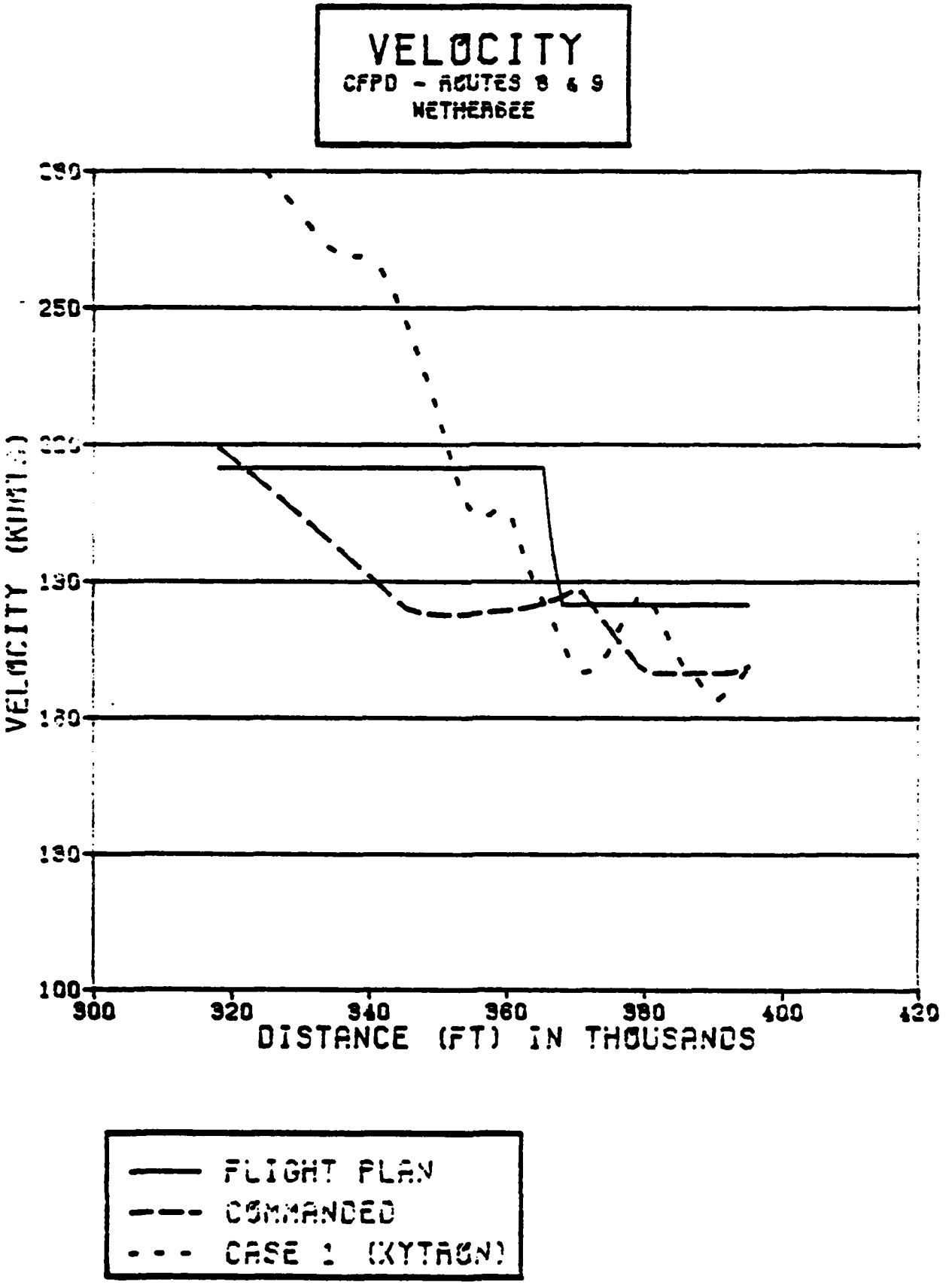

ALTITUDE
SYMBOLOGY - ROUTES 10 & 11
WETHERBEE
2200
1800
1400
1000
600
200
-200
ALTITUDE (FT)
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (KYTRON)
CASE 2 (HUD)

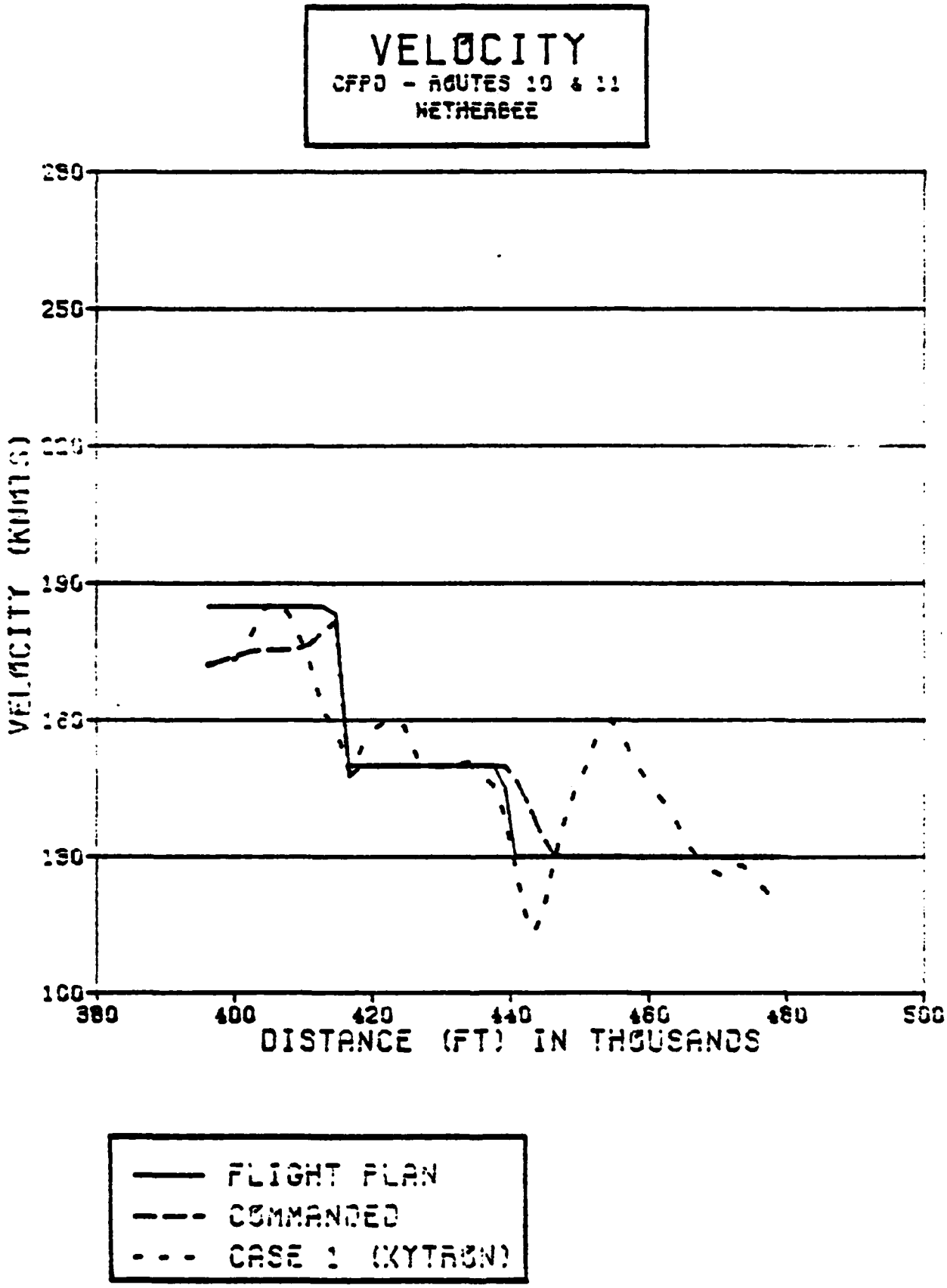

ALTITUDE
SYMBOLOGY - NIAGARA 28A
WETHERBEE
2800
2400
2000
1600
1200
800
400
ALTITUDE (FT)
20
40
60
80
100
120
140
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (HUD)

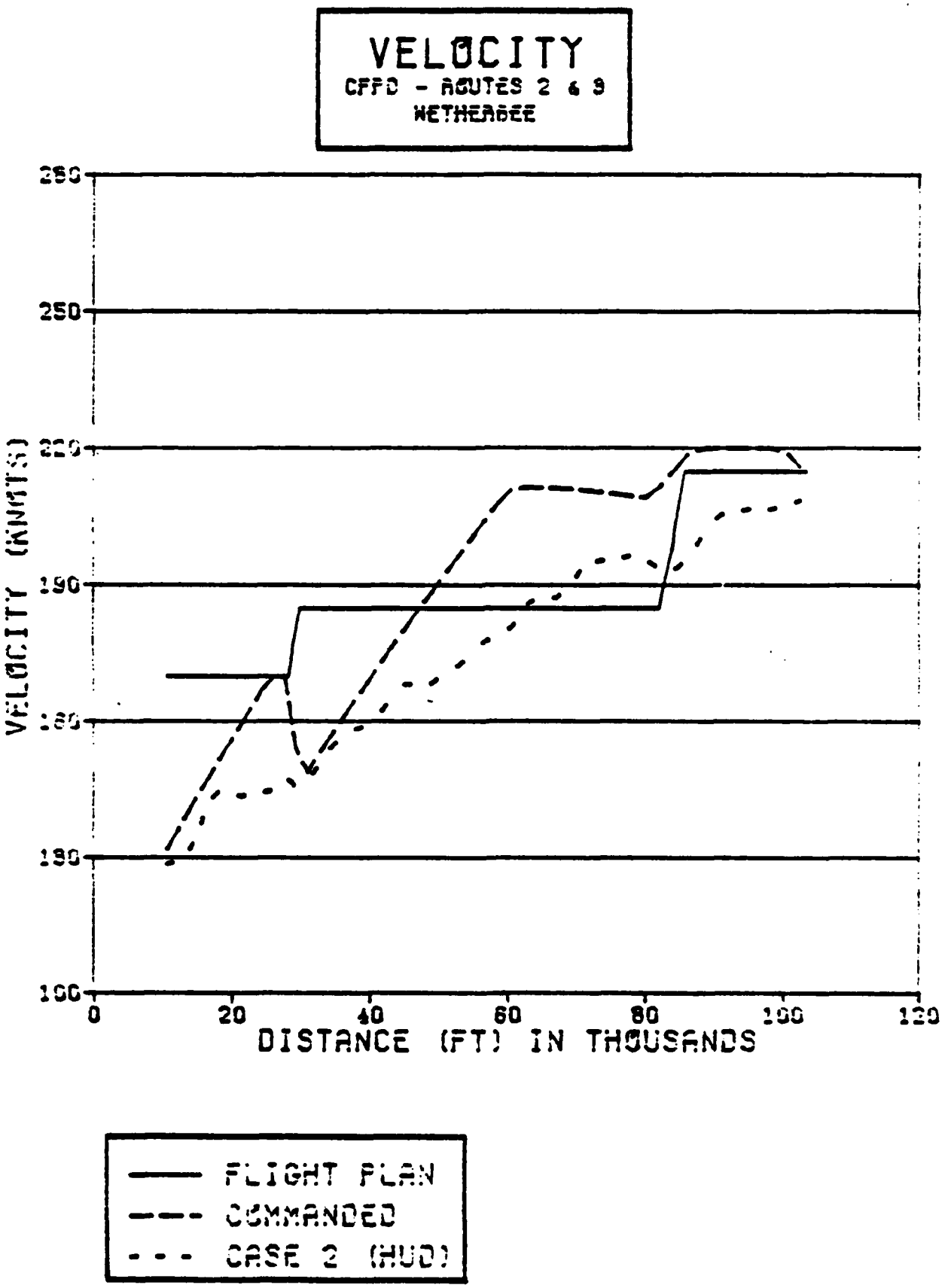

VELOCITY
CFPO - ROUTES 2 & 3
WETHERBEE
280
250
220
190
160
130
100
VELOCITY (KNOTS)
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 1 (KYTRON)

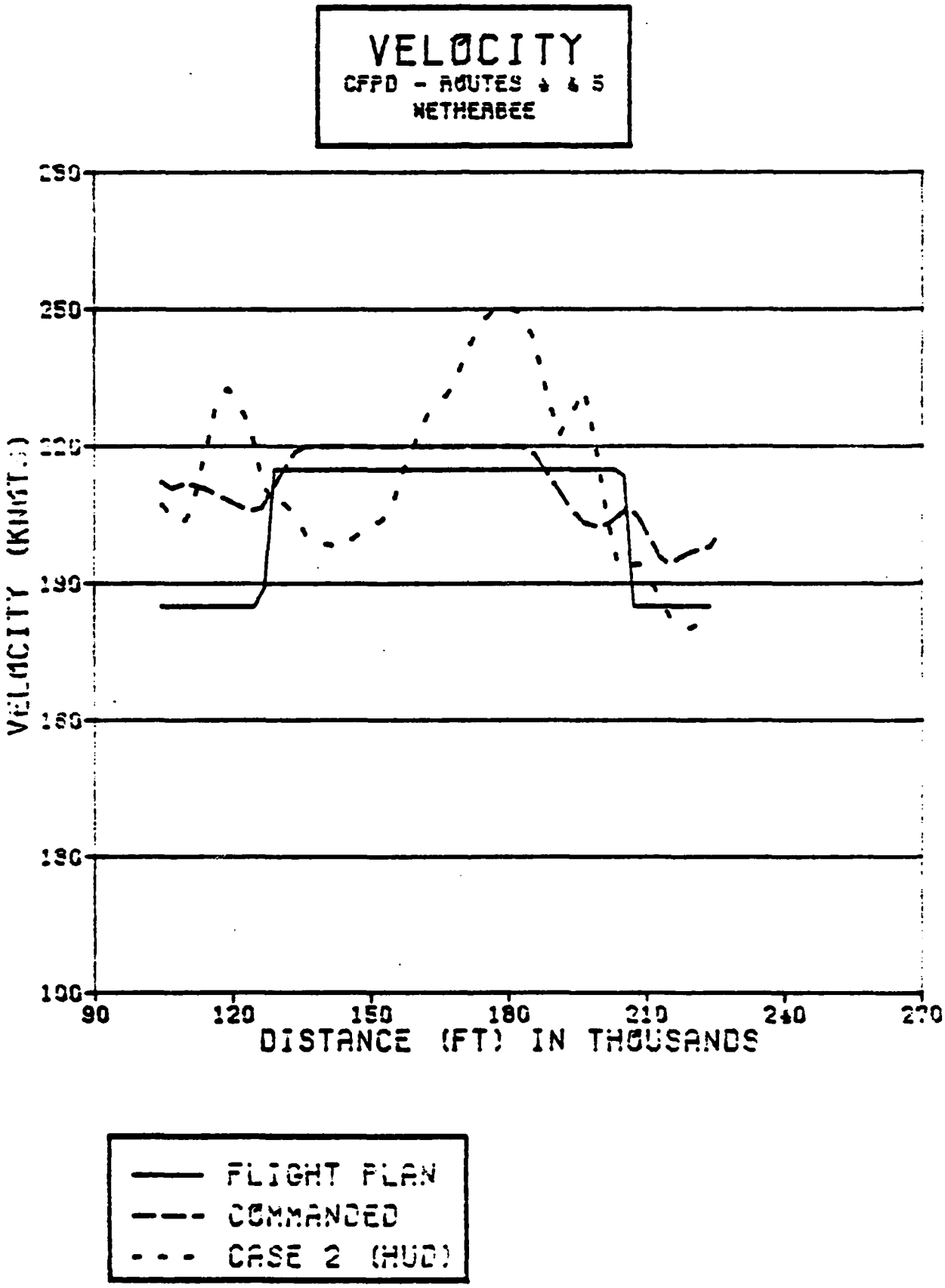

VELOCITY
CFPO - ROUTES 4 & 5
WETHERBEE
VELOCITY (KNOTS)
250
250
220
190
160
130
100
90
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 1 (XYTRON)

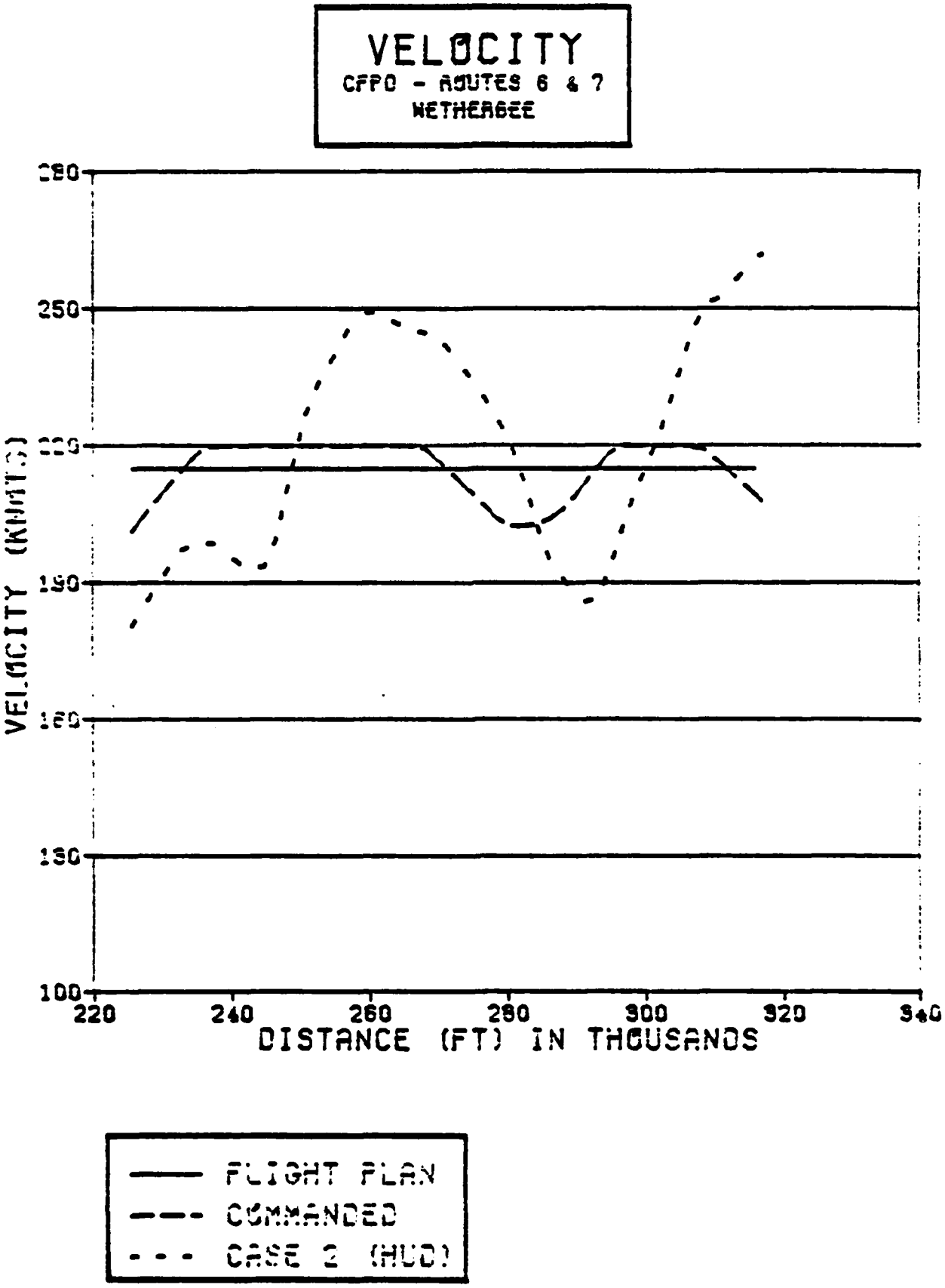

VELOCITY
CFPD - ROUTES 6 & 7
WETHERBEE
VELOCITY (KNOTS)
250
220
190
160
130
100
220
240
260
280
300
320
340
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 1 (XYTRON)

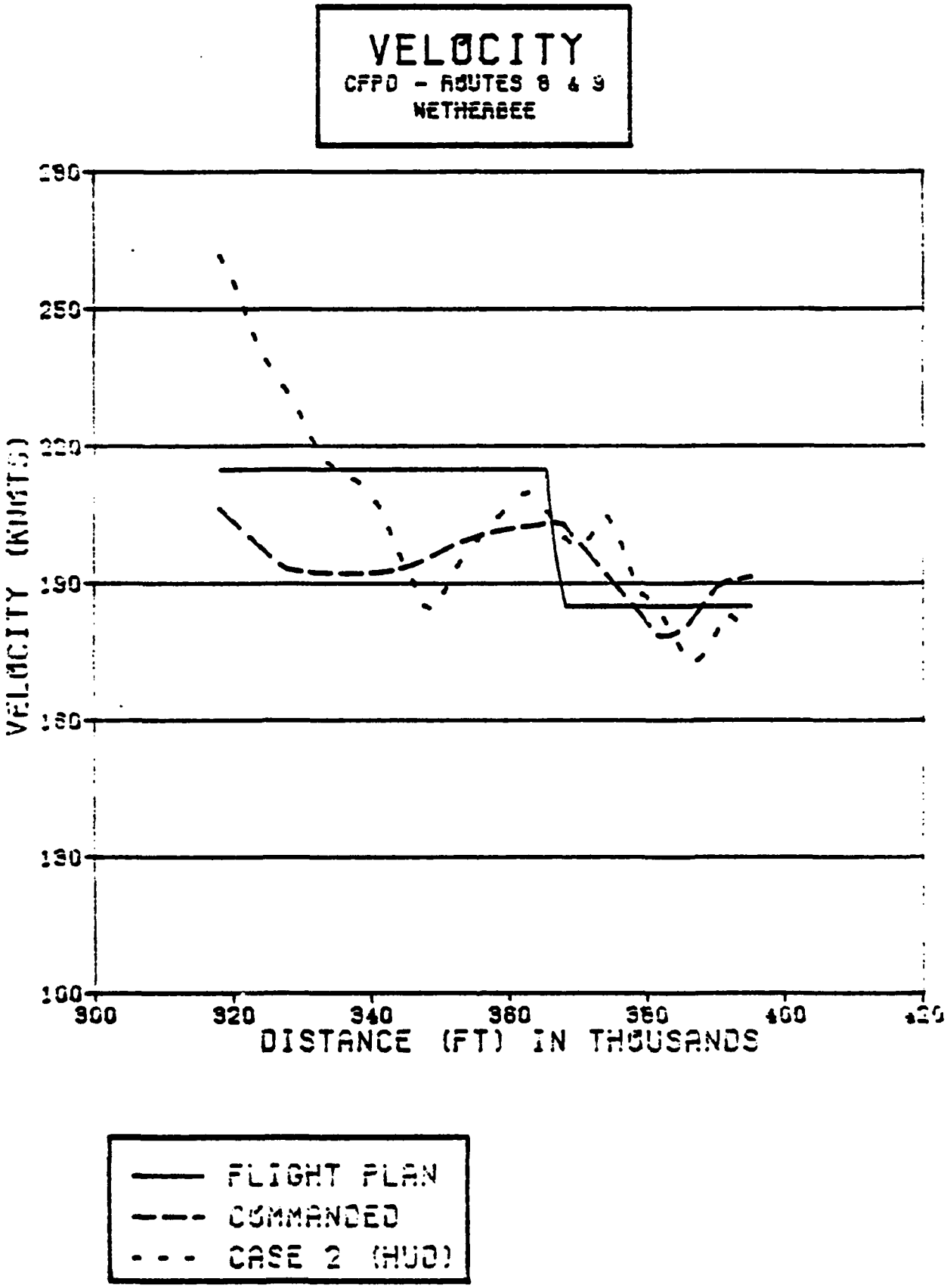

VELOCITY
CFPD - ROUTES 8 & 9
WETHERBEE
250
100
300
320
340
360
380
400
420
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 1 (XYTRON)

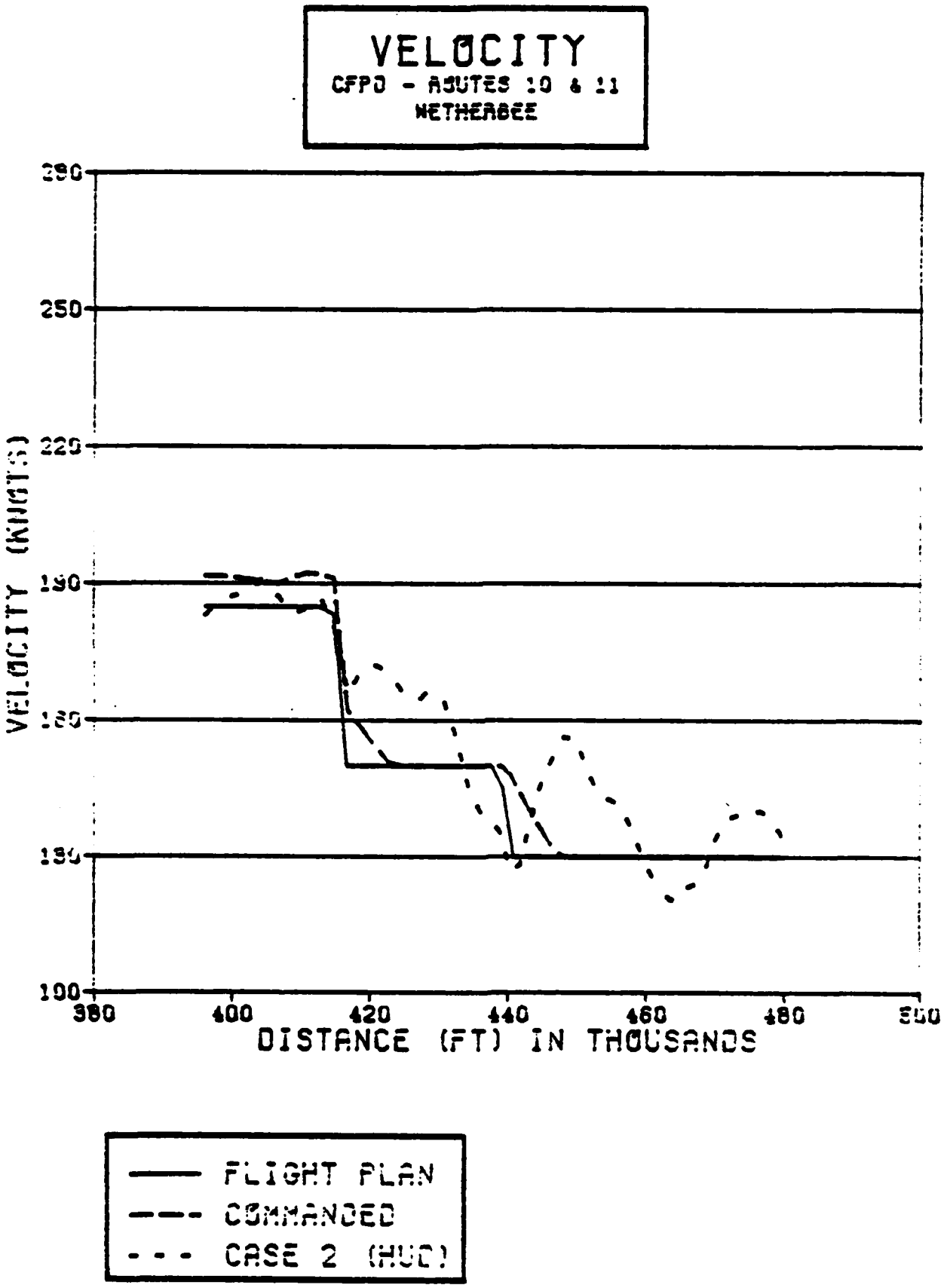

VELOCITY
CFPO - ROUTES 10 & 11
WETHERBEE
VELOCITY (KNOTS)
280
250
220
190
160
130
100
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 1 (KYTRON)

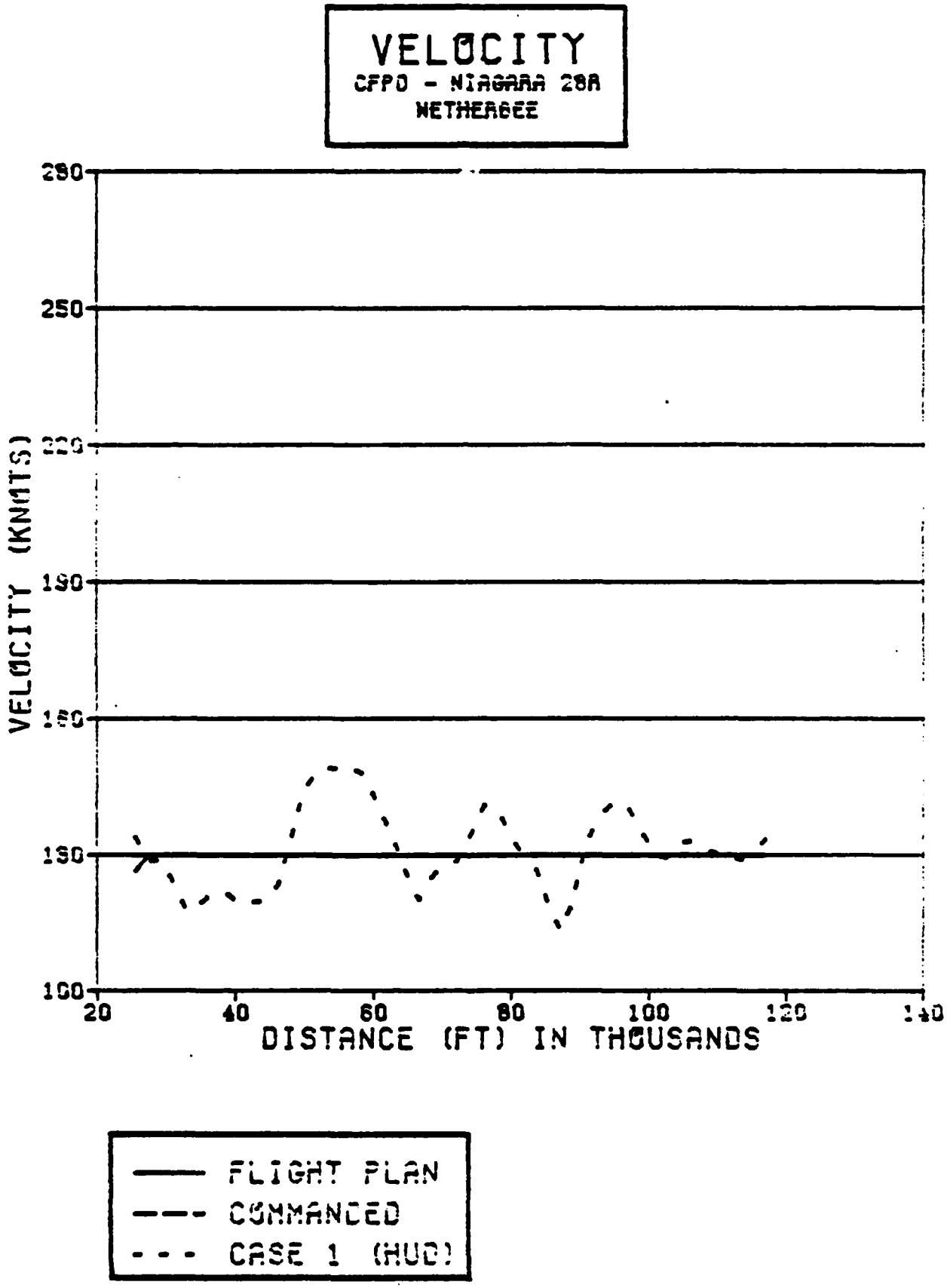

VELOCITY
CFFD - ROUTES 2 & 9
WETHERBEE
VELOCITY (KNOTS)
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 2 (HUD)

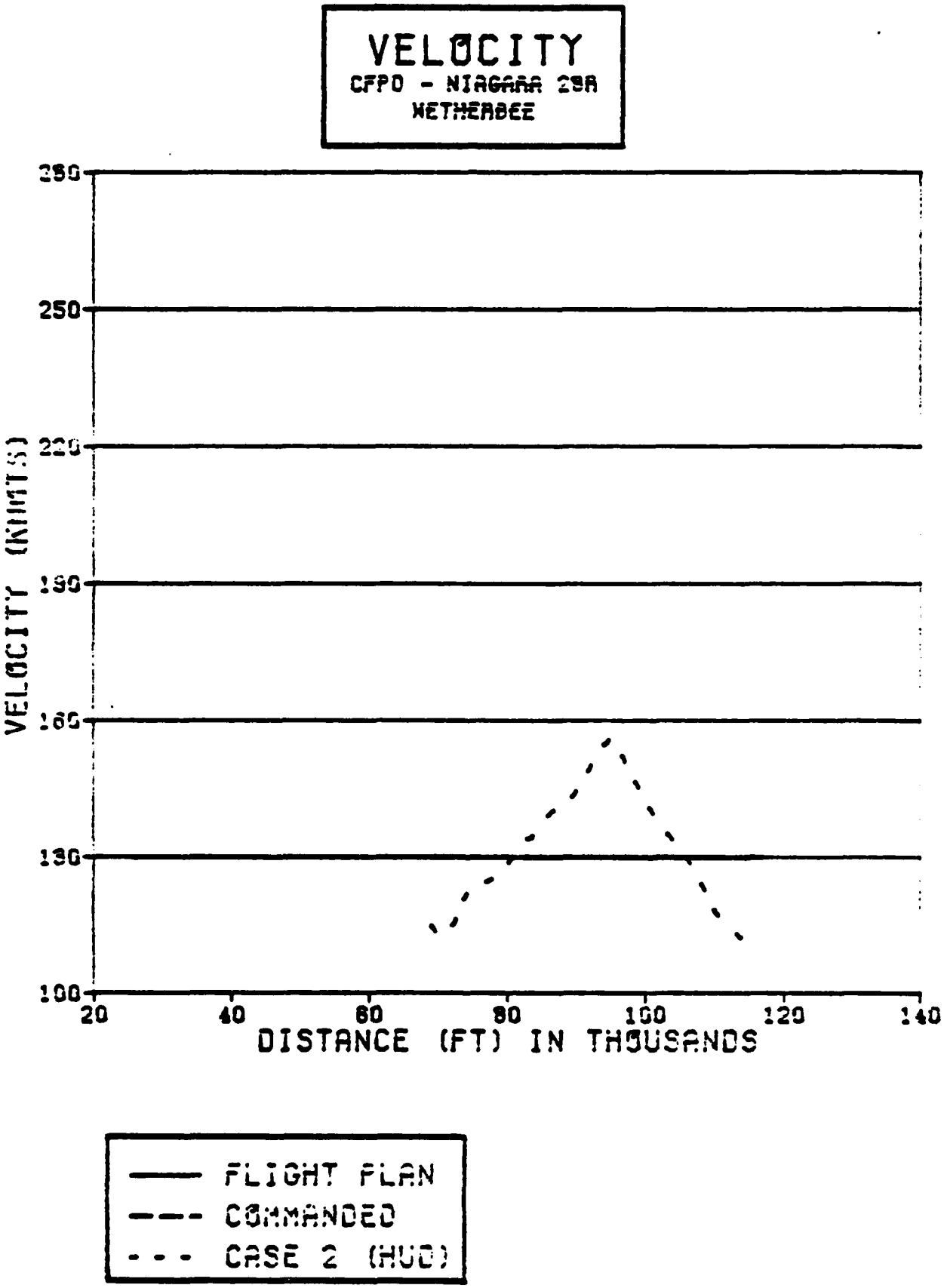

VELOCITY
CFPD - ROUTES 4 & 5
WETHERBEE
VELOCITY (KNOTS)
250
250
220
190
160
130
100
90
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 2 (HUD)

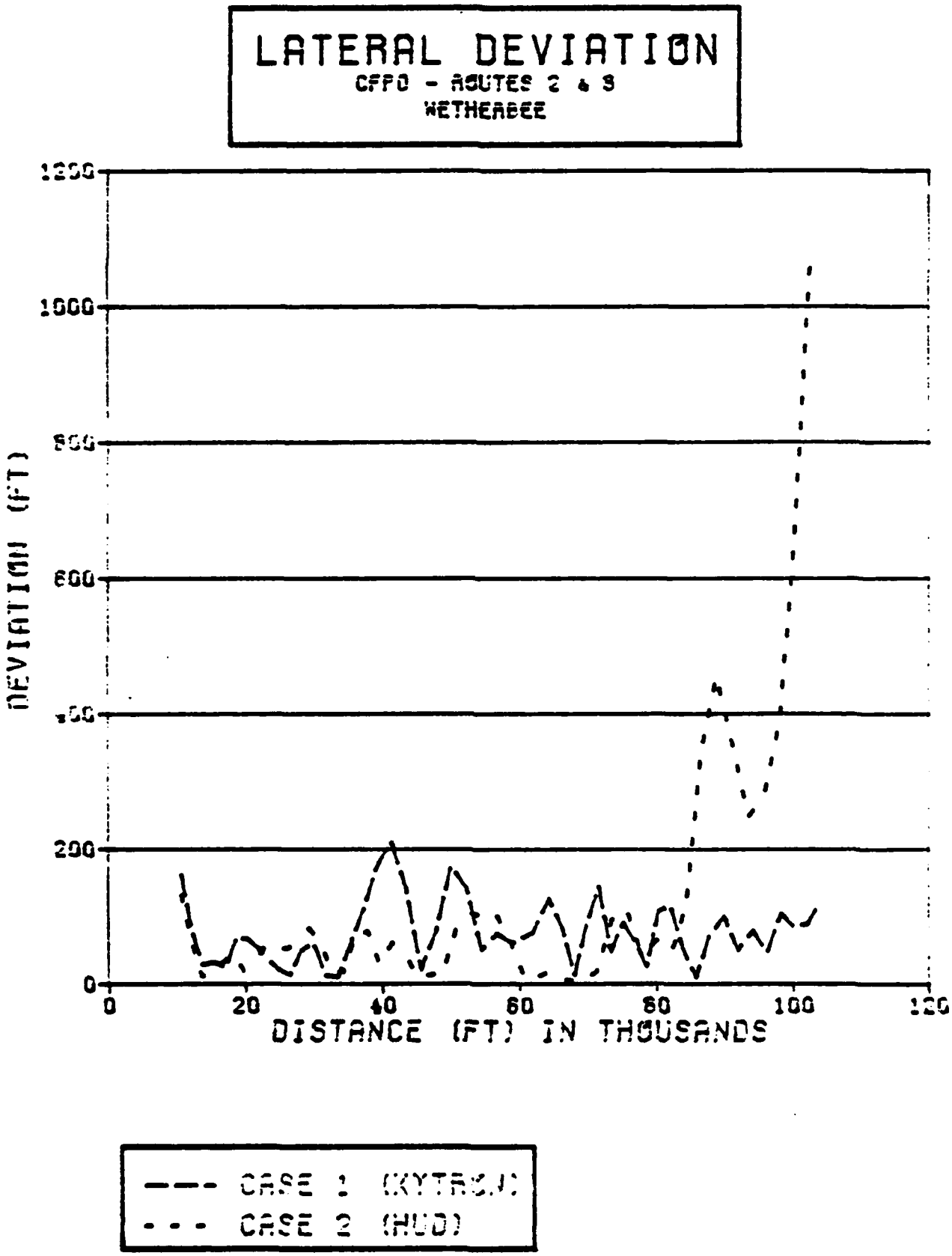

VELOCITY
CFPO - ROUTES 6 & 7
WETHERBEE
VELOCITY (KNOTS)
280
250
220
190
160
130
100
220
240
260
280
300
320
340
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 2 (HUD)

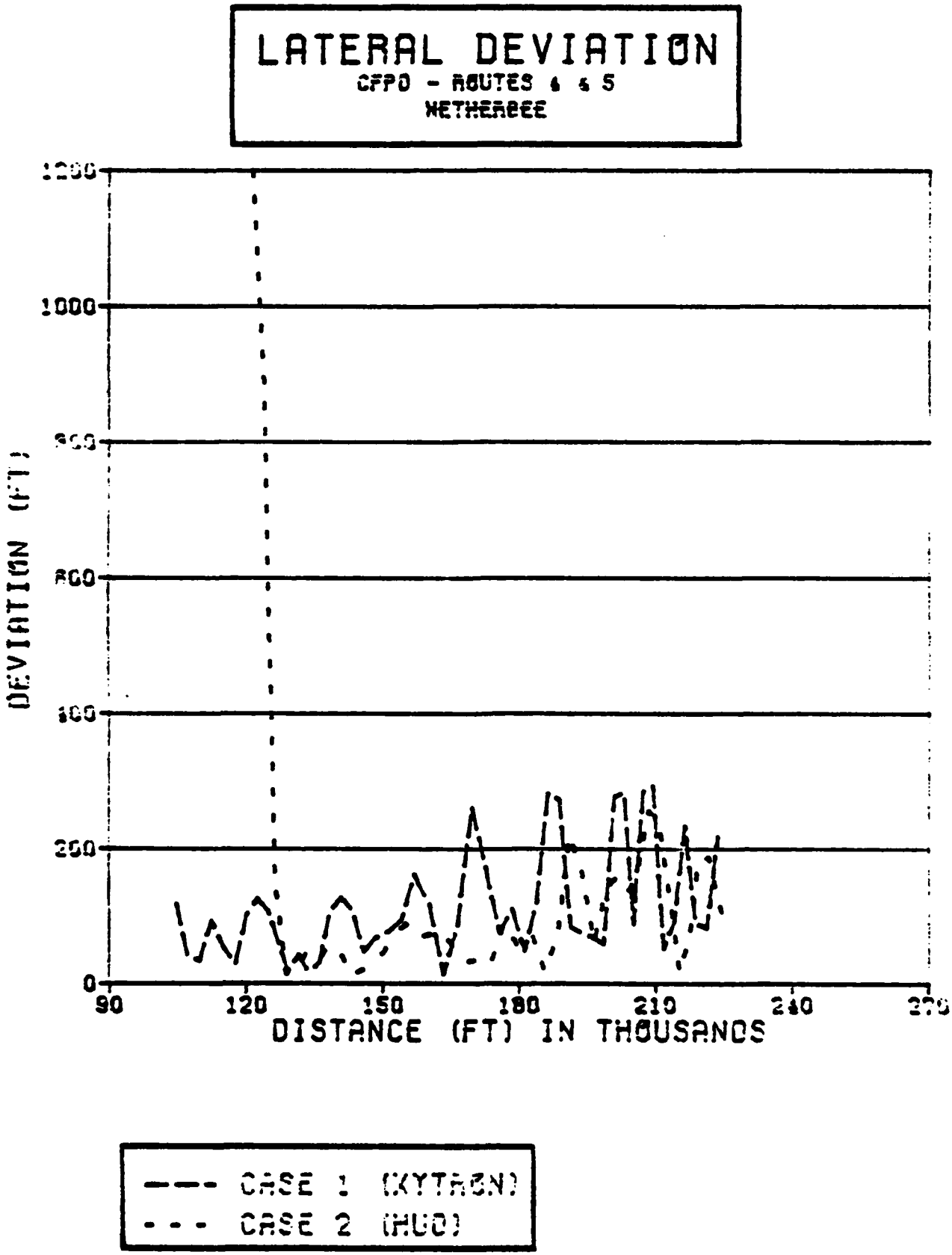

VELOCITY
CFPO - ROUTES 8 & 9
WETHERBEE
VELOCITY (KNOTS)
290
250
220
190
160
130
100
300
320
340
360
380
400
420
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 2 (HUD)

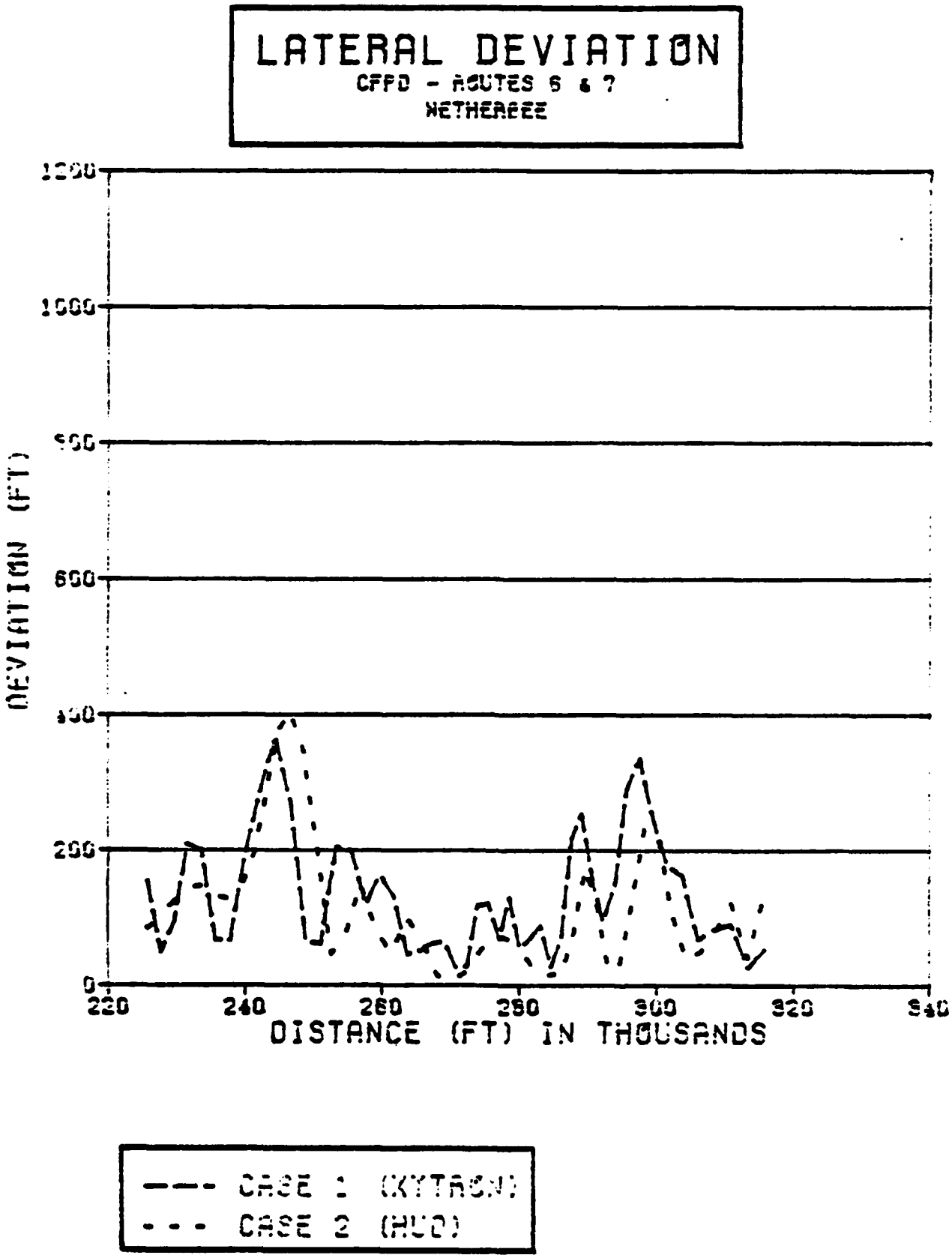

VELOCITY
CFPO - ROUTES 10 & 11
WETHERBEE
VELOCITY (KNOTS)
290
250
220
190
160
130
100
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 2 (HUD)

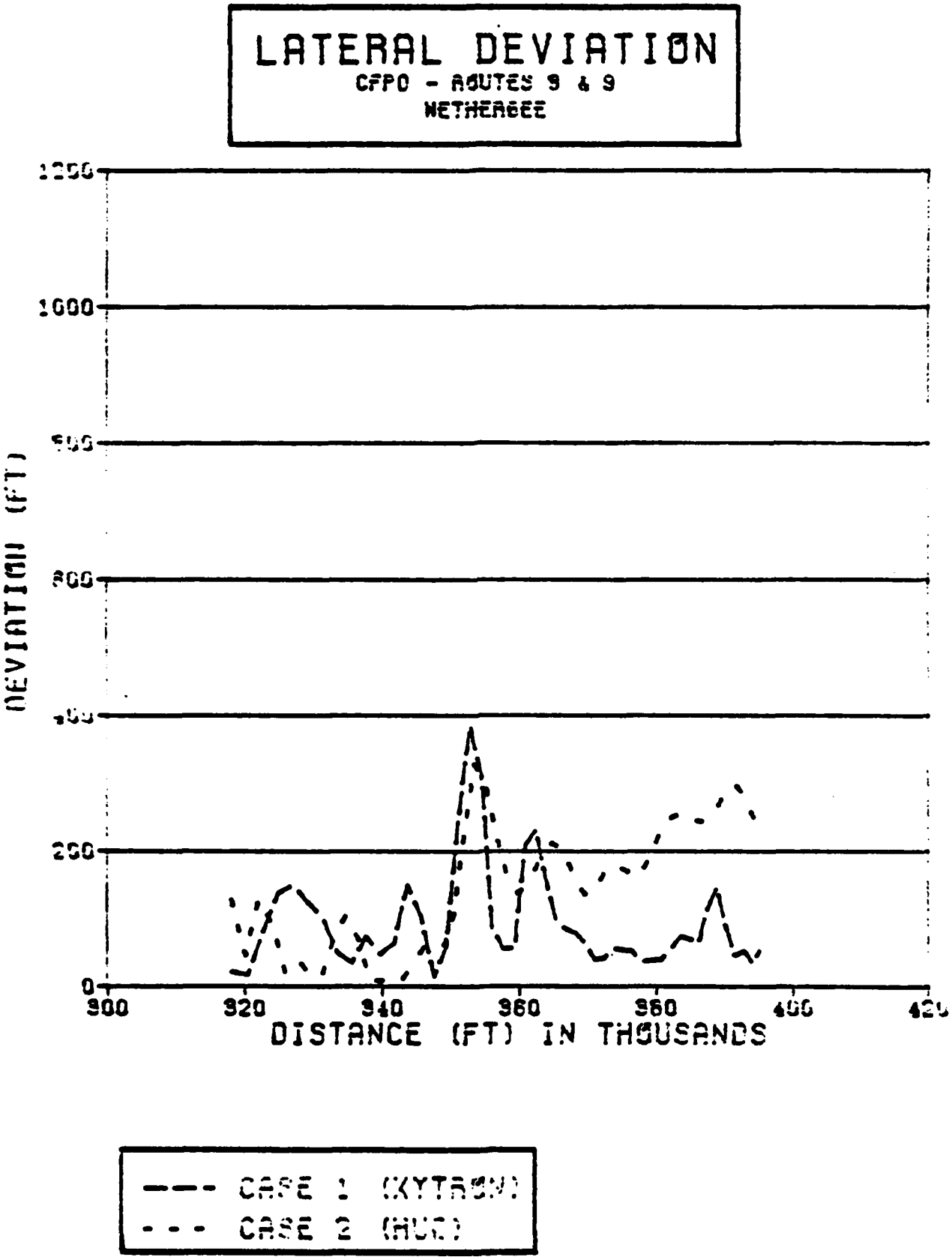

VELOCITY
CFPO - NIAGARA 28A
NETHERBEE
VELOCITY (KNOTS)
280
250
220
190
160
130
100
20
40
60
80
100
120
140
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 1 (HUD)

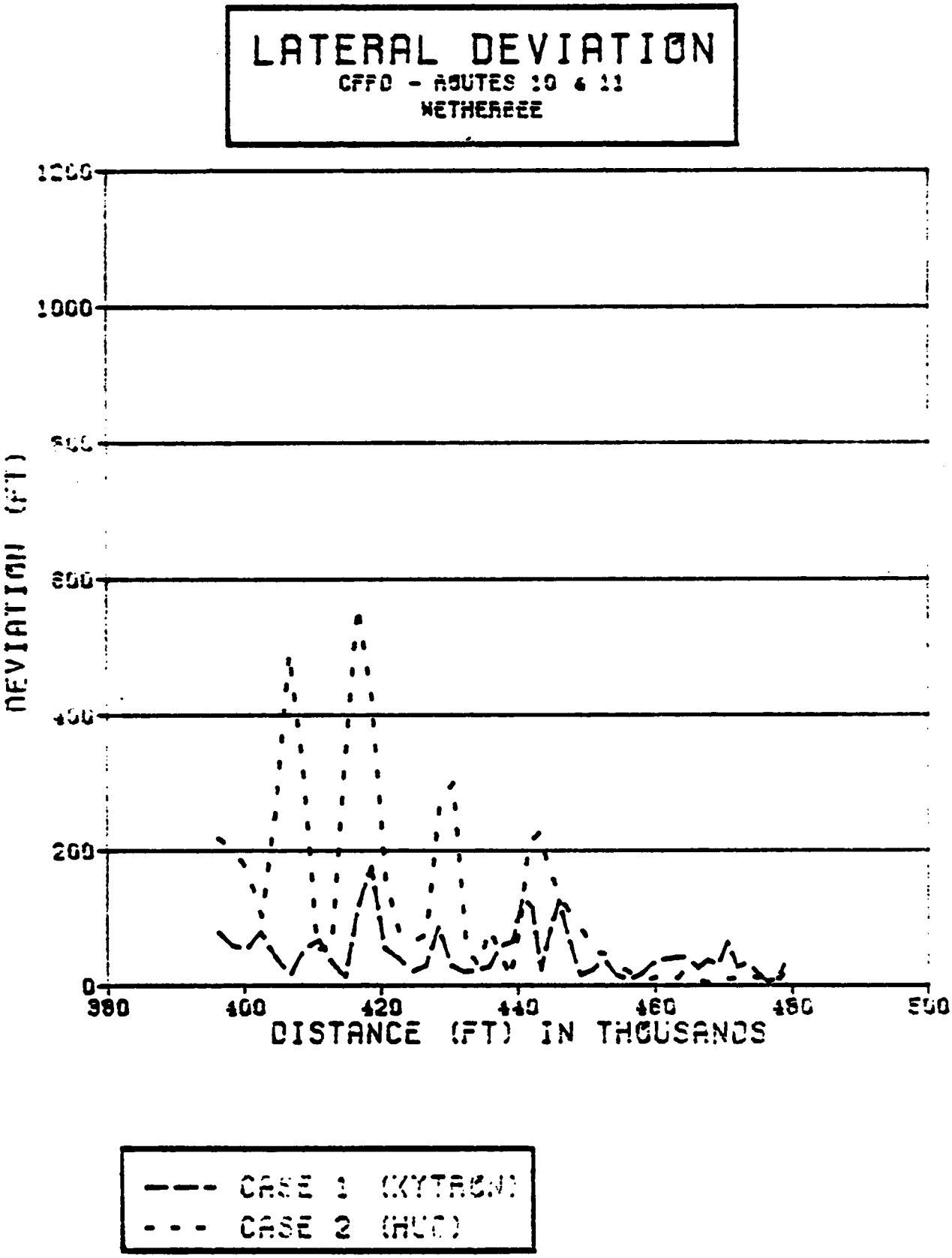

VELOCITY
CFPO - NIAGARA 29A
WETHERBEE
VELOCITY (KNOTS)
250
220
190
160
130
100
20
40
60
80
100
120
140
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 2 (HUD)

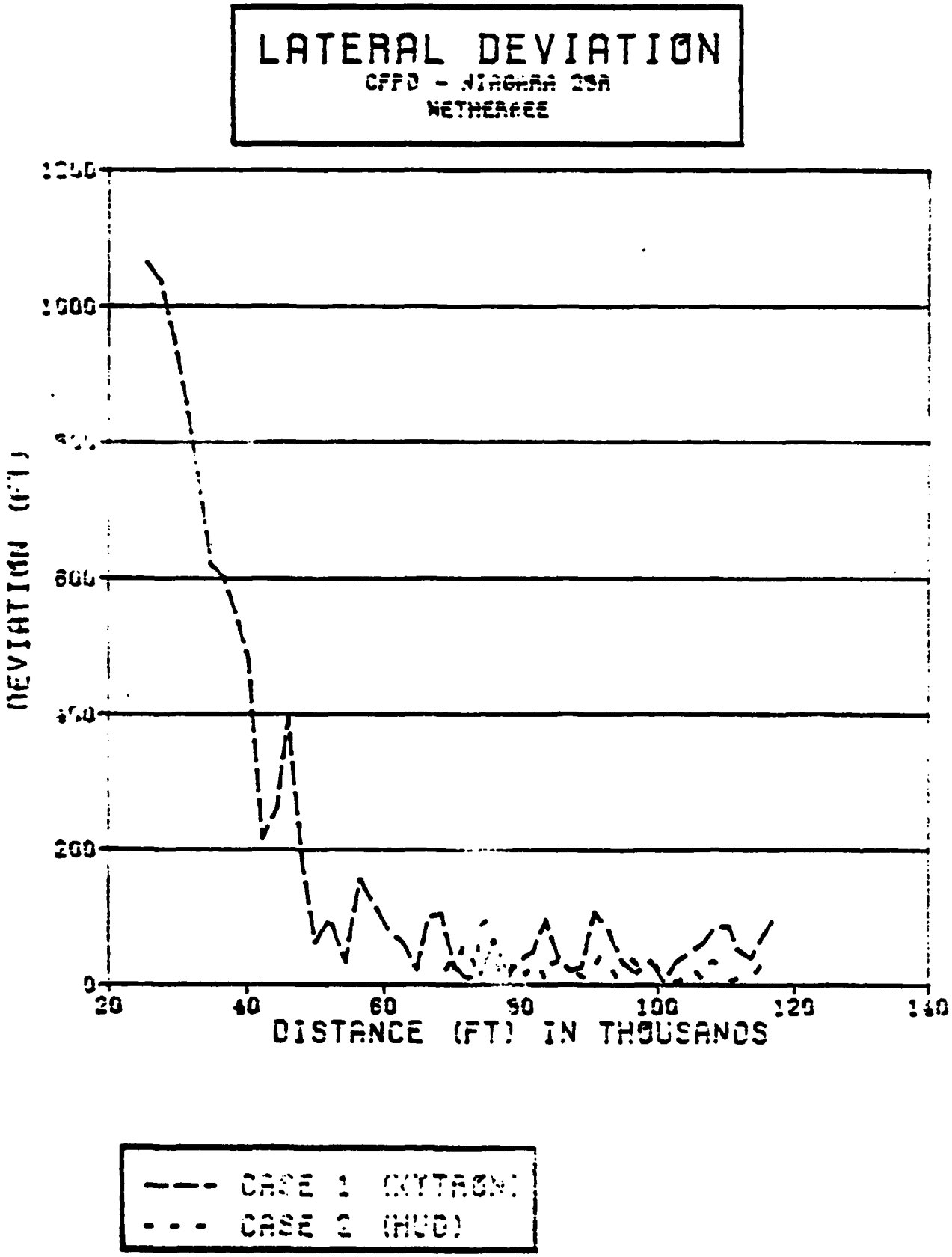

LATERAL DEVIATION
CFPO - ROUTES 2 & 3
WETHERBEE
DEVIATION (FT)
1200
1000
800
600
400
200
0
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
CASE 1 (KYTRON)
CASE 2 (HUD)

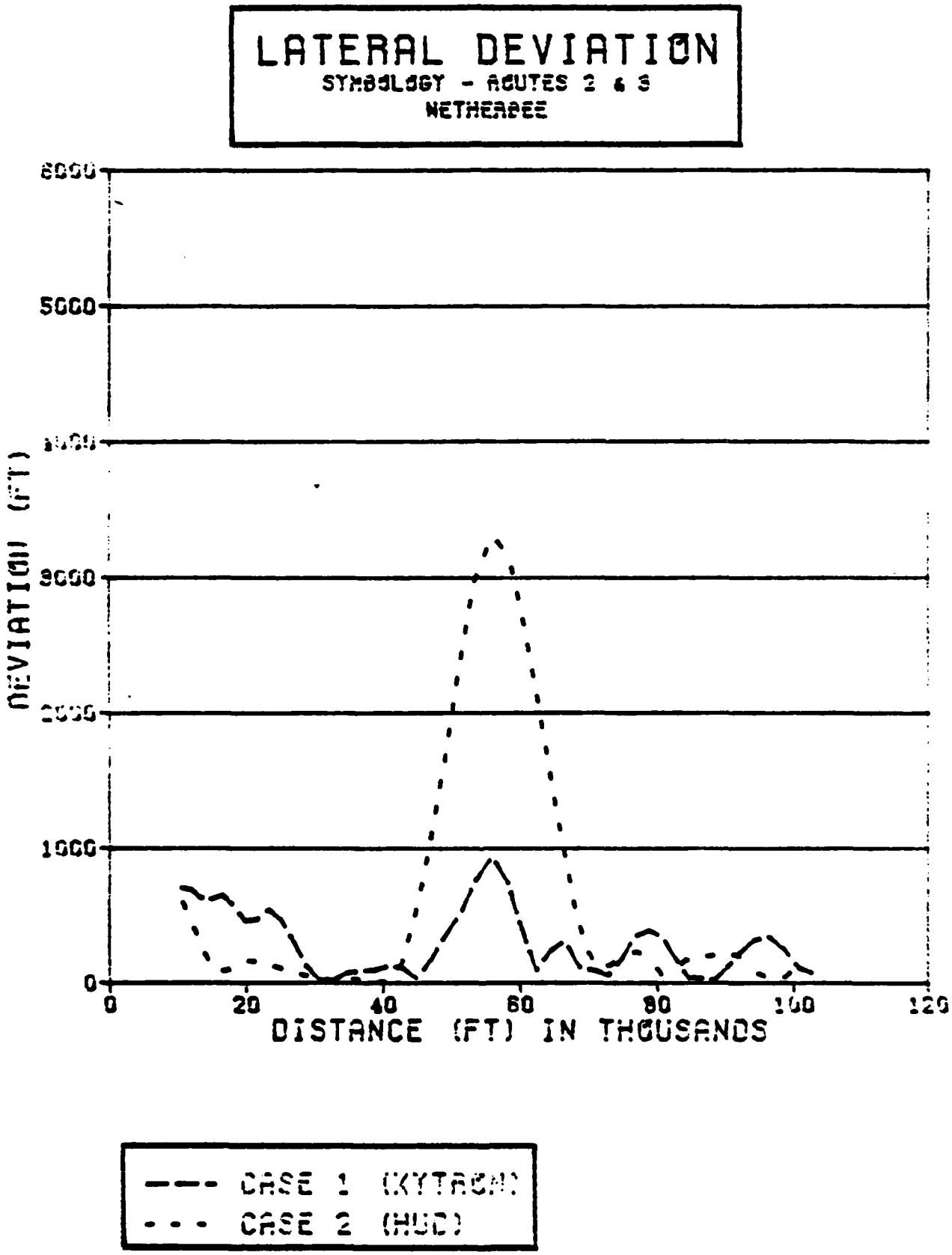

LATERAL DEVIATION
CFPD - ROUTES 4 & 5
WETHERBEE
DEVIATION (FT)
1200
1000
800
600
400
200
0
90
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
CASE 1 (KYTRON)
CASE 2 (HUD)

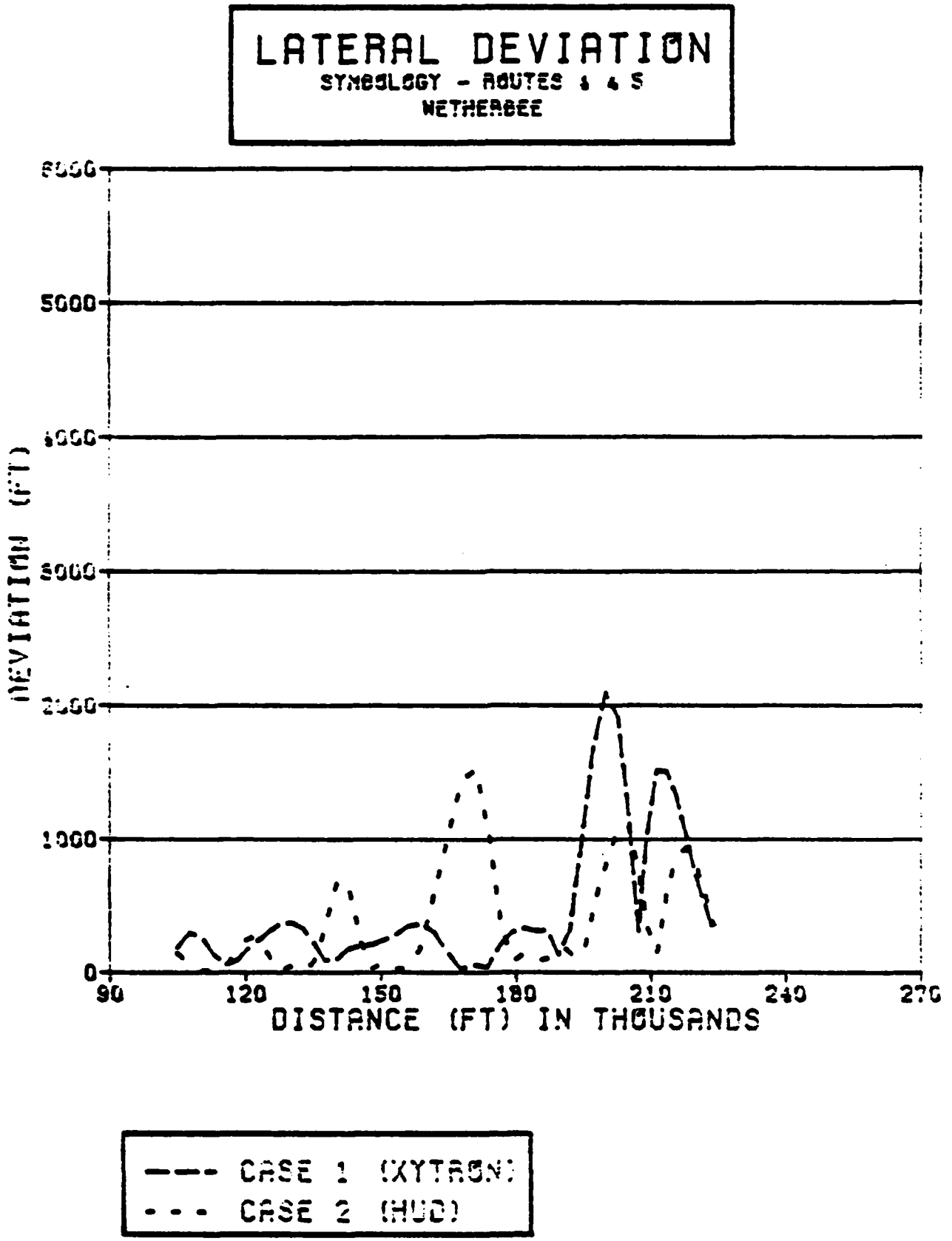

LATERAL DEVIATION
CFPD - ROUTES 6 & 7
WETHERBEE
DEVIATION (FT)
1200
1000
800
600
400
200
0
220
240
260
280
300
320
340
DISTANCE (FT) IN THOUSANDS
CASE 1 (KYTRON)
CASE 2 (HUD)

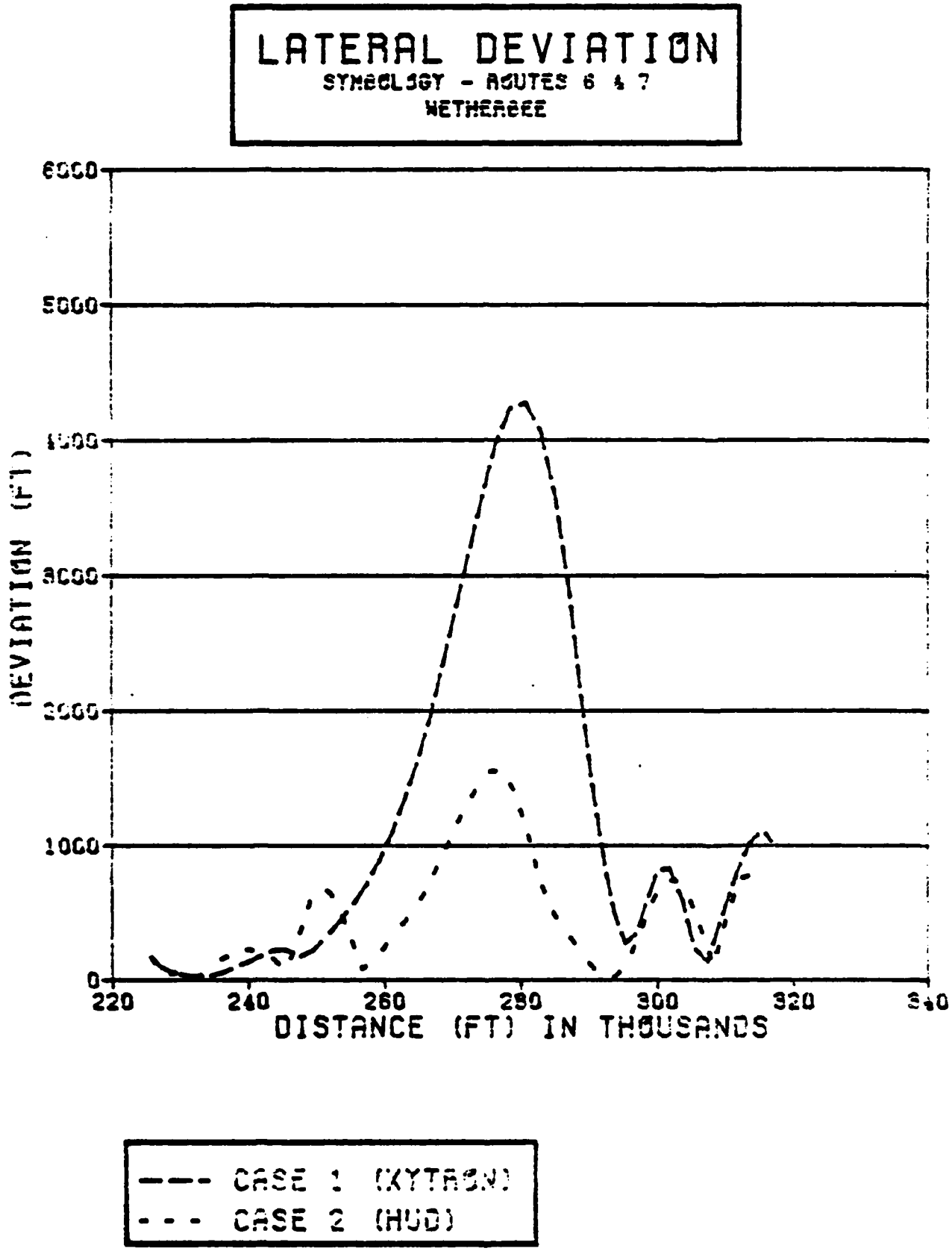

LATERAL DEVIATION
CFPO - ROUTES 9 & 9
WETHERBEE
DEVIATION (FT)
1200
1000
800
400
200
0
300
320
340
360
380
400
420
DISTANCE (FT) IN THOUSANDS
CASE 1 (KYTRON)
CASE 2 (HUD)

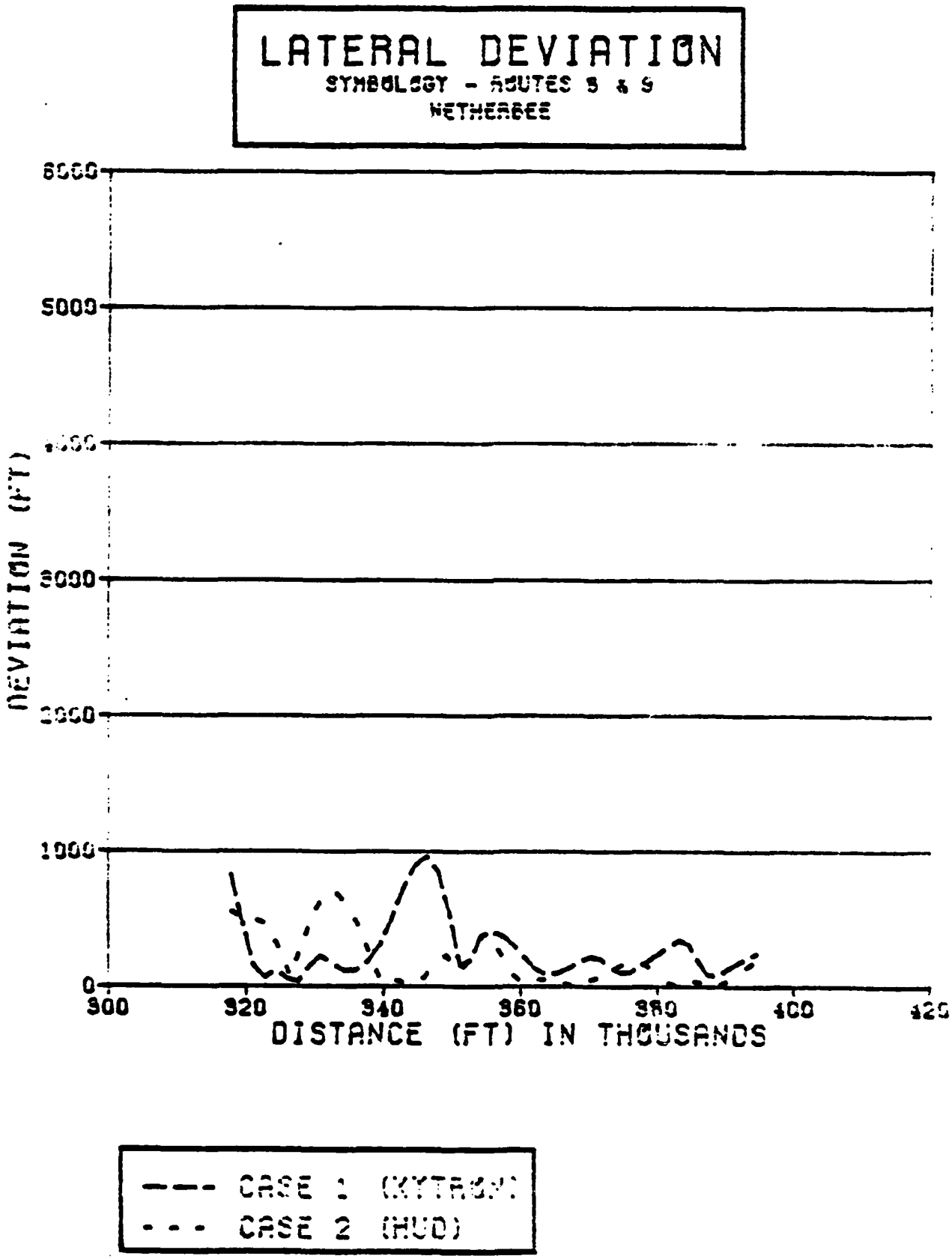

LATERAL DEVIATION
CFFD - ROUTES 10 & 11
WETHEREEE
1200
1000
800
600
400
200
0
DEVIATION (FT)
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
CASE 1 (KYTRON)
CASE 2 (HUD)

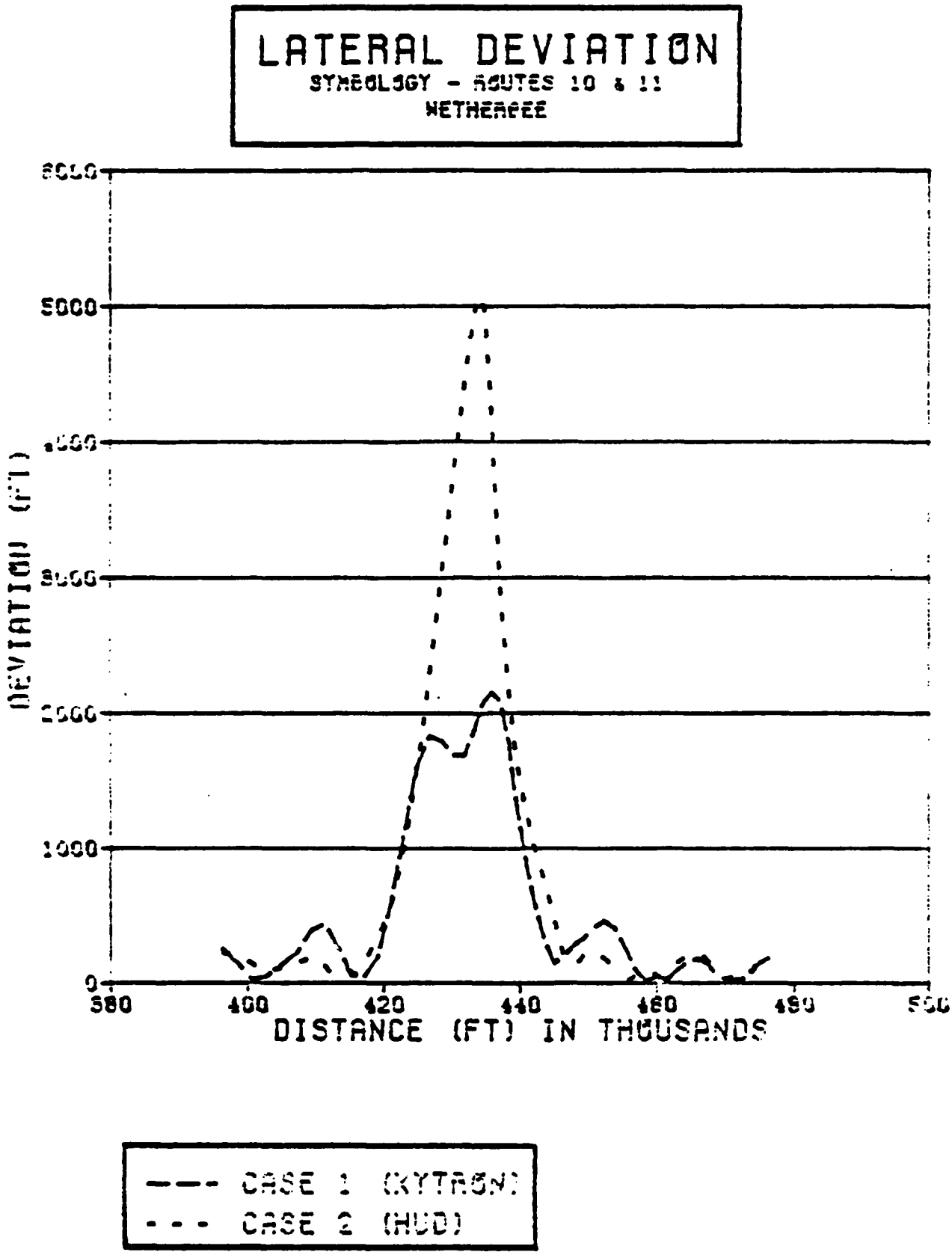

LATERAL DEVIATION
CFPD - NIAGARA 25R
WETHERBEE
1000
600
200
0
20
40
60
80
100
120
140
DISTANCE (FT) IN THOUSANDS
CASE 1 (XYTRON)
CASE 2 (HUD)

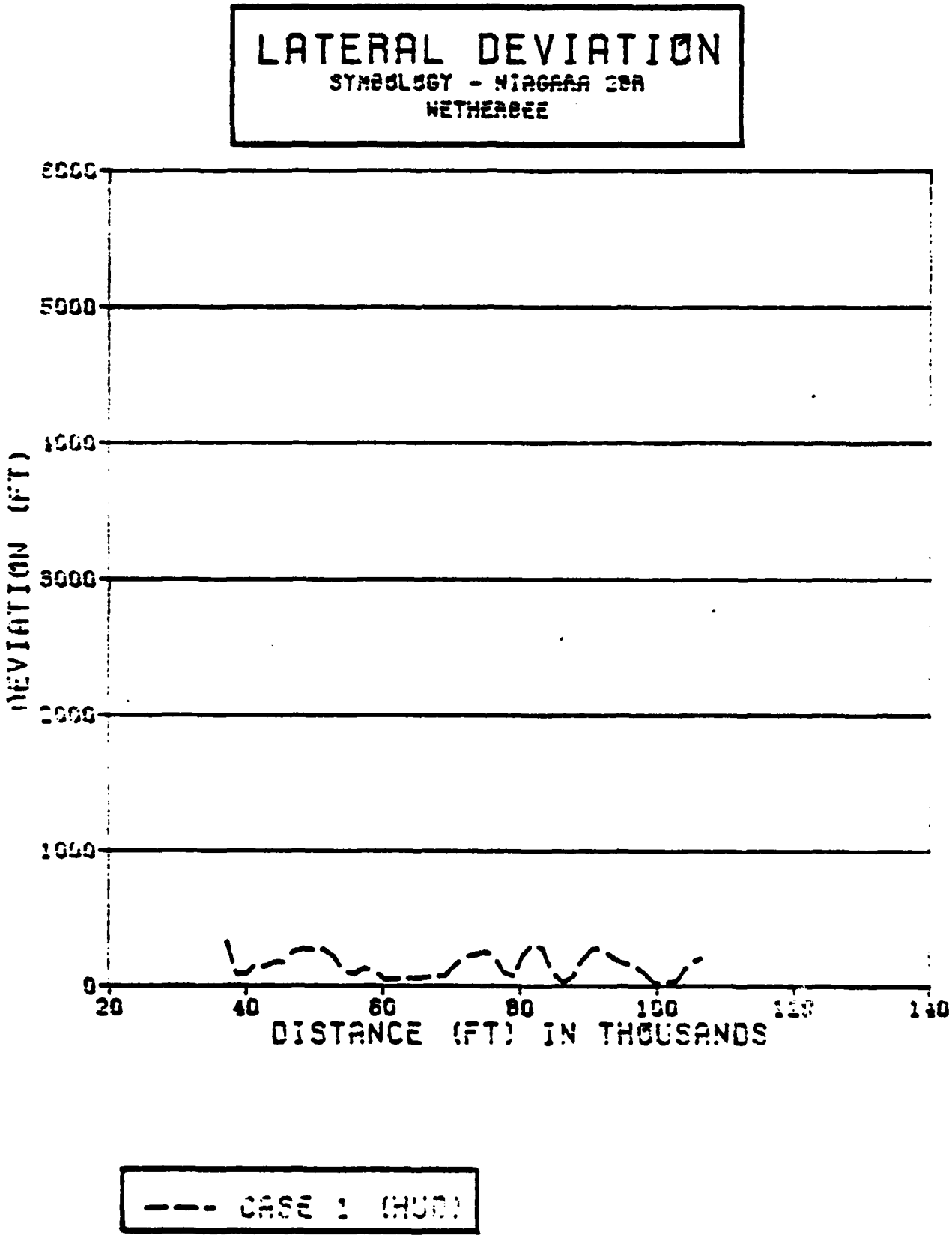

LATERAL DEVIATION
SYMBOLOGY - ROUTES 2 & 3
NETHERBEE
DEVIATION (FT)
5000
3000
1000
0
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
CASE 1 (KYTRON)
CASE 2 (HUD)

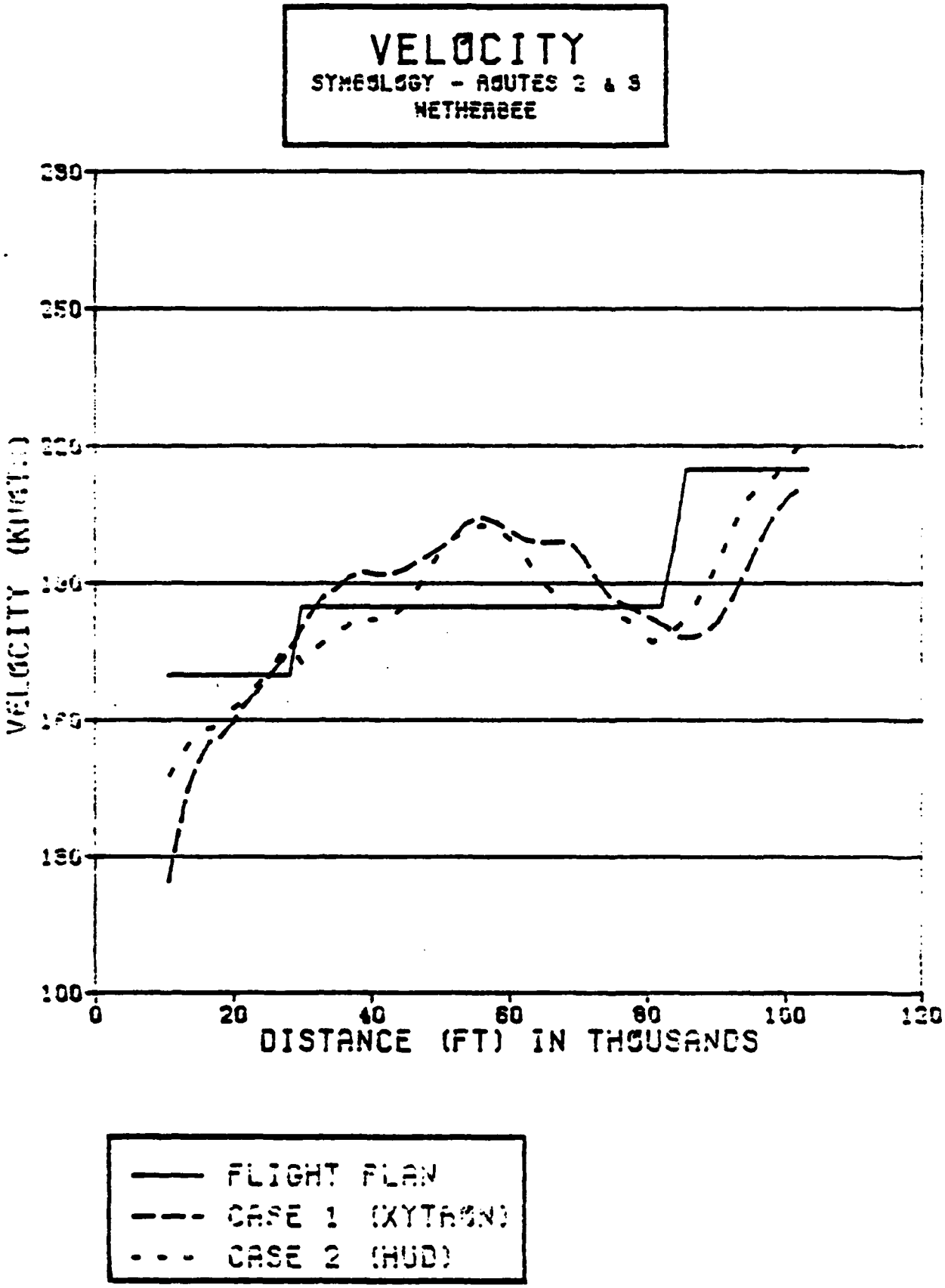

LATERAL DEVIATION
SYMBOLOGY - ROUTES 1 & 5
WETHERBEE
DEVIATION (FT)
5000
4000
3000
2000
1000
0
90
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
CASE 1 (XYTRON)
CASE 2 (HUD)

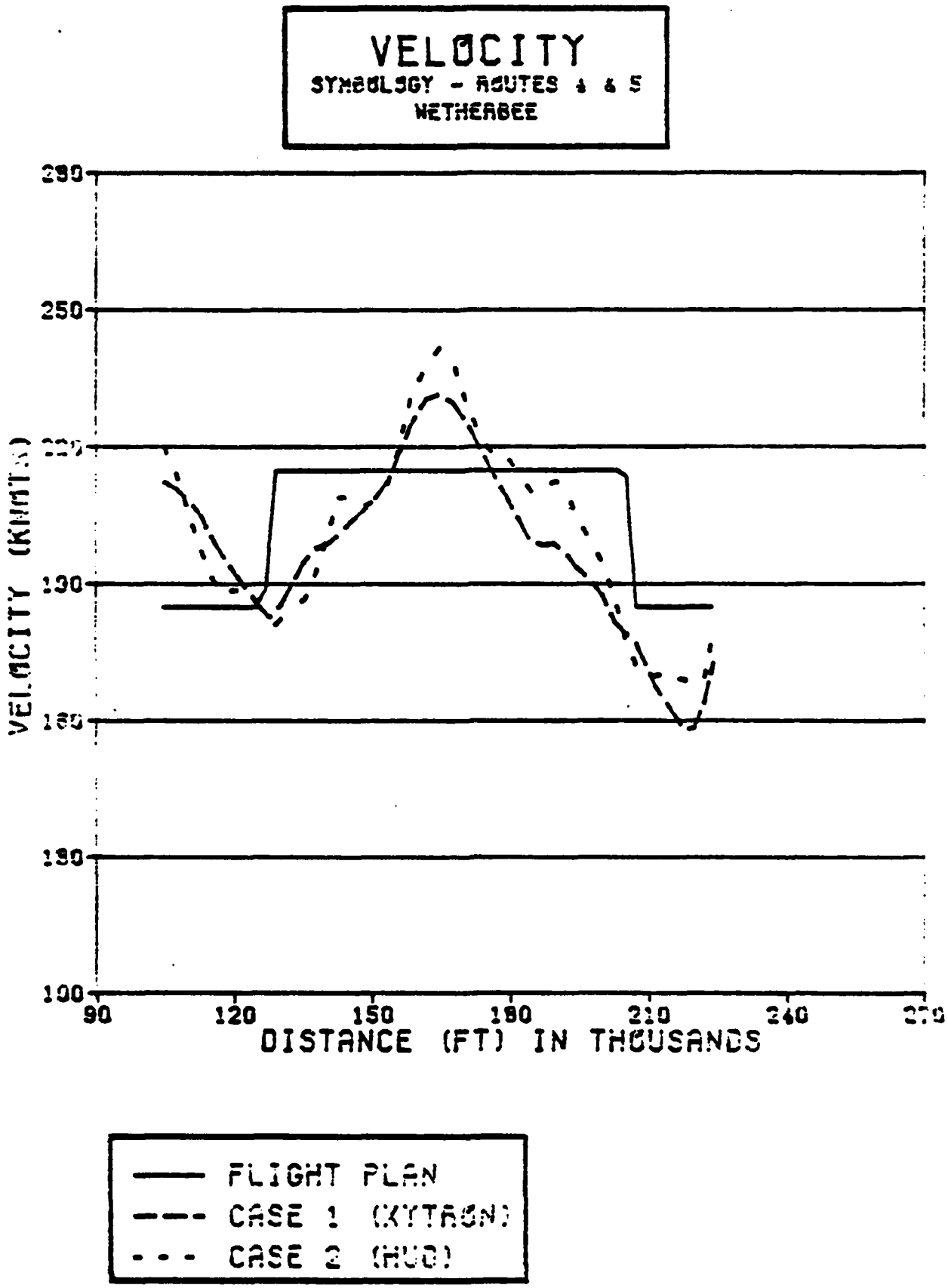

LATERAL DEVIATION
SYMBOLOGY - ROUTES 6 & 7
WETHERBEE
DEVIATION (FT)
6000
5000
4000
3000
2000
1000
0
220
240
260
280
300
320
340
DISTANCE (FT) IN THOUSANDS
CASE 1 (XYTRON)
CASE 2 (HUD)

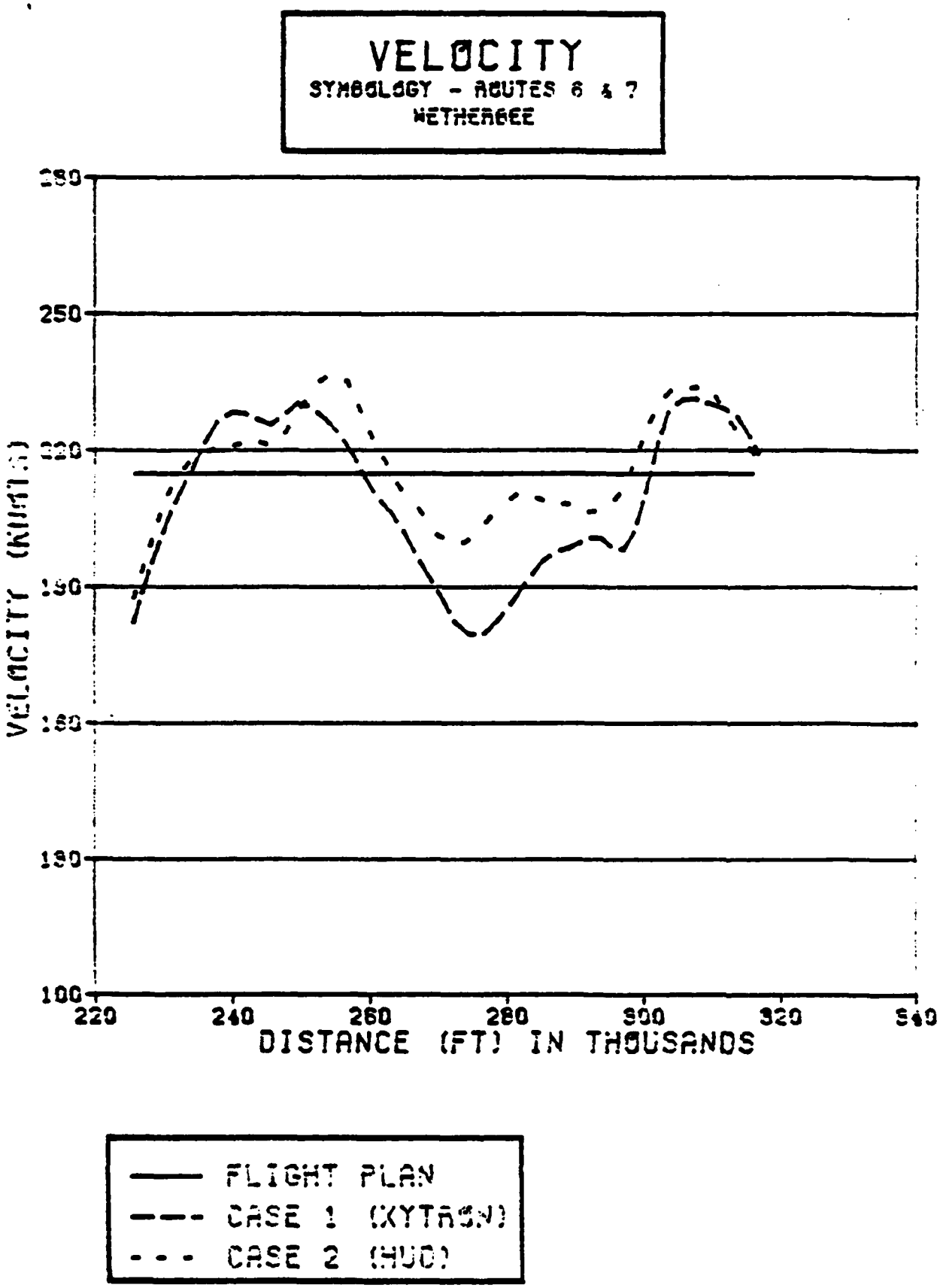

LATERAL DEVIATION
SYMBOLOGY - ROUTES 5 & 9
WETHERBEE
DEVIATION (FT)
5000
3000
1000
0
300
320
340
360
380
400
420
DISTANCE (FT) IN THOUSANDS
CASE 1 (KYTRON)
CASE 2 (HUD)

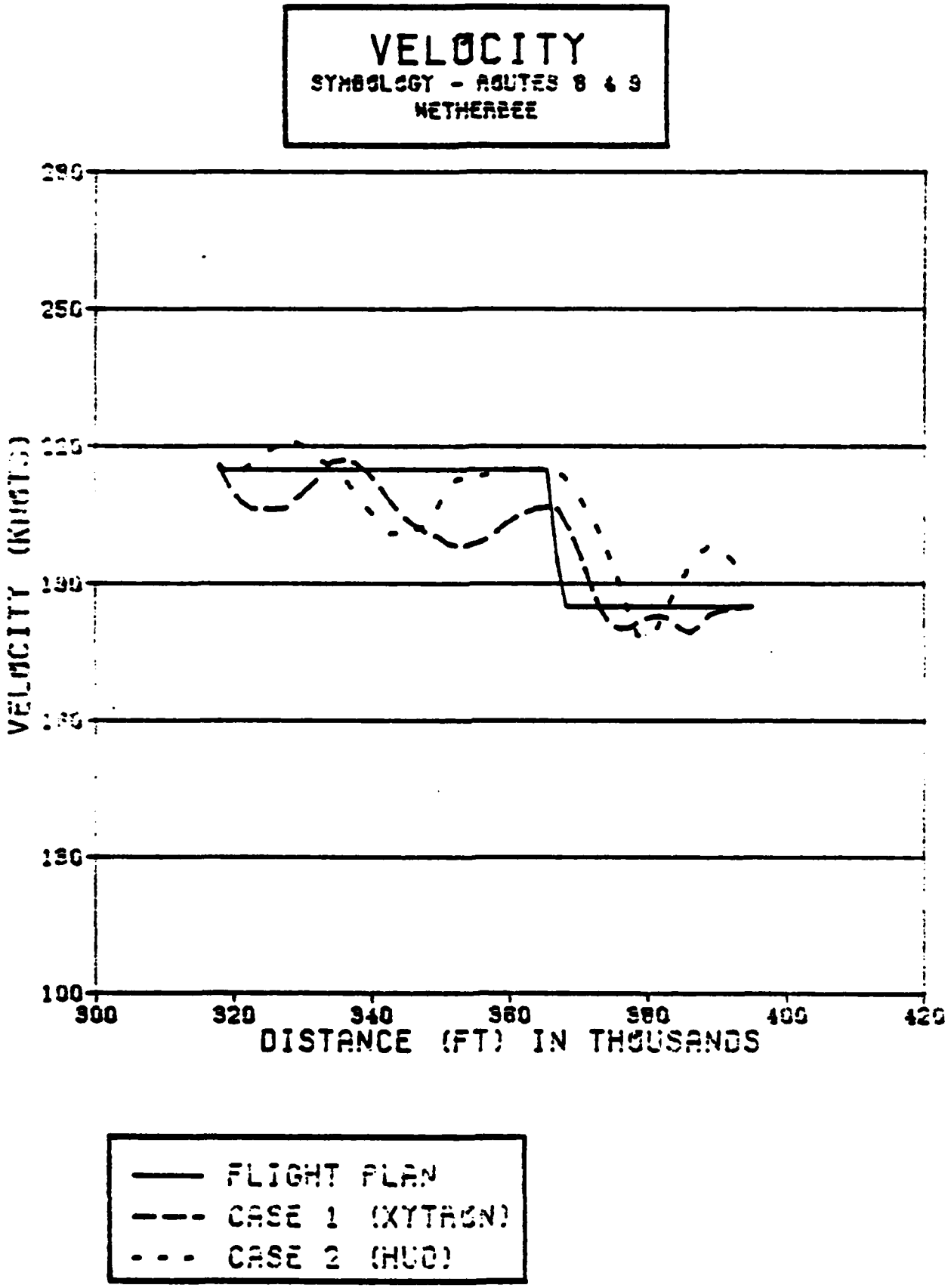

LATERAL DEVIATION
SYMBOLOGY - ROUTES 10 & 11
WETHERFEE
DEVIATION (FT)
5000
4000
3000
2000
1000
0
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
CASE 1 (KYTRON)
CASE 2 (HUD)

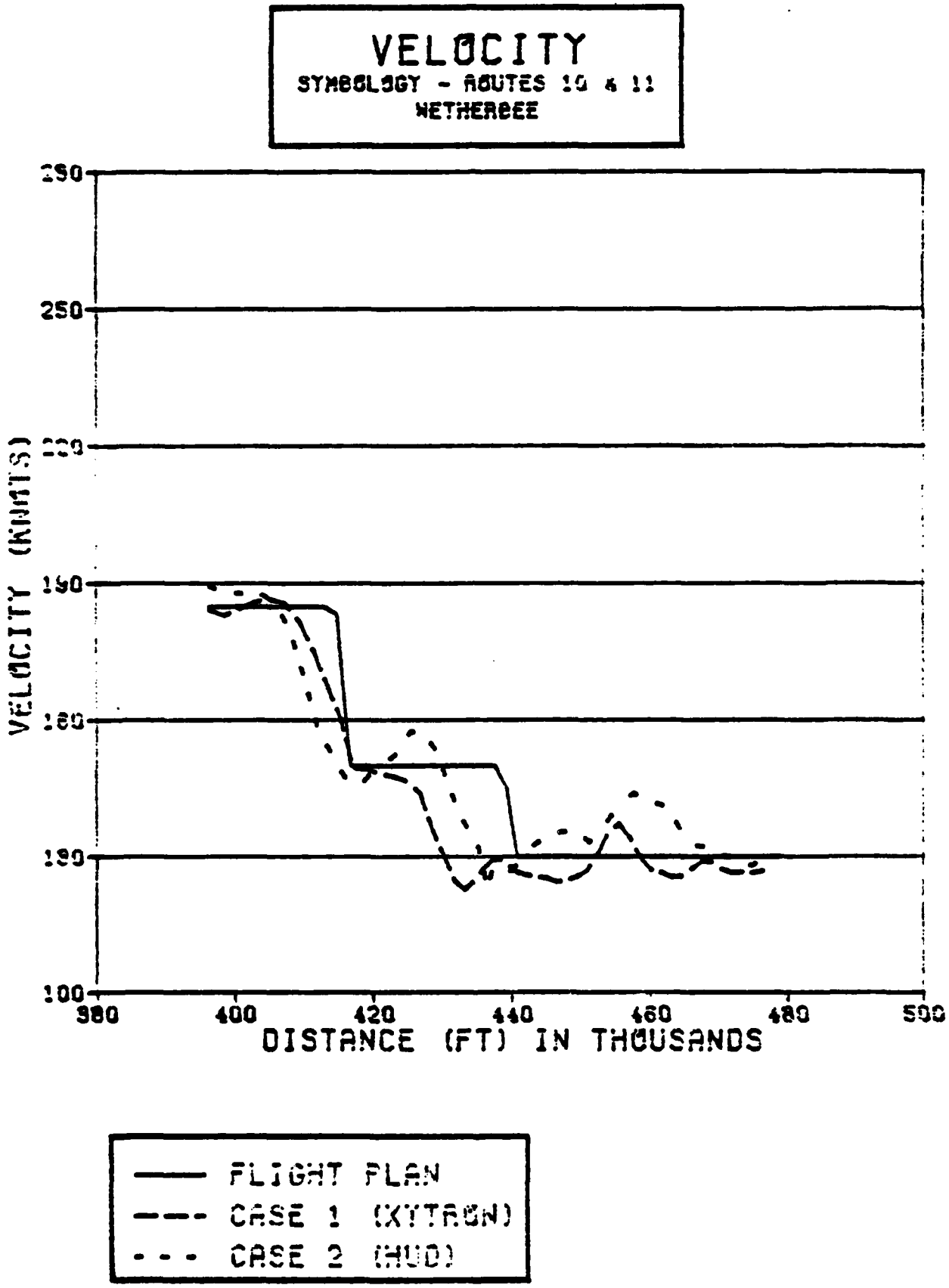

LATERAL DEVIATION
SYMBOLOGY - NIAGARA 28R
WETHERBEE
DEVIATION (FT)
6000
5000
4000
3000
2000
1000
0
20
40
60
80
100
120
140
DISTANCE (FT) IN THOUSANDS
CASE 1 (HUD)

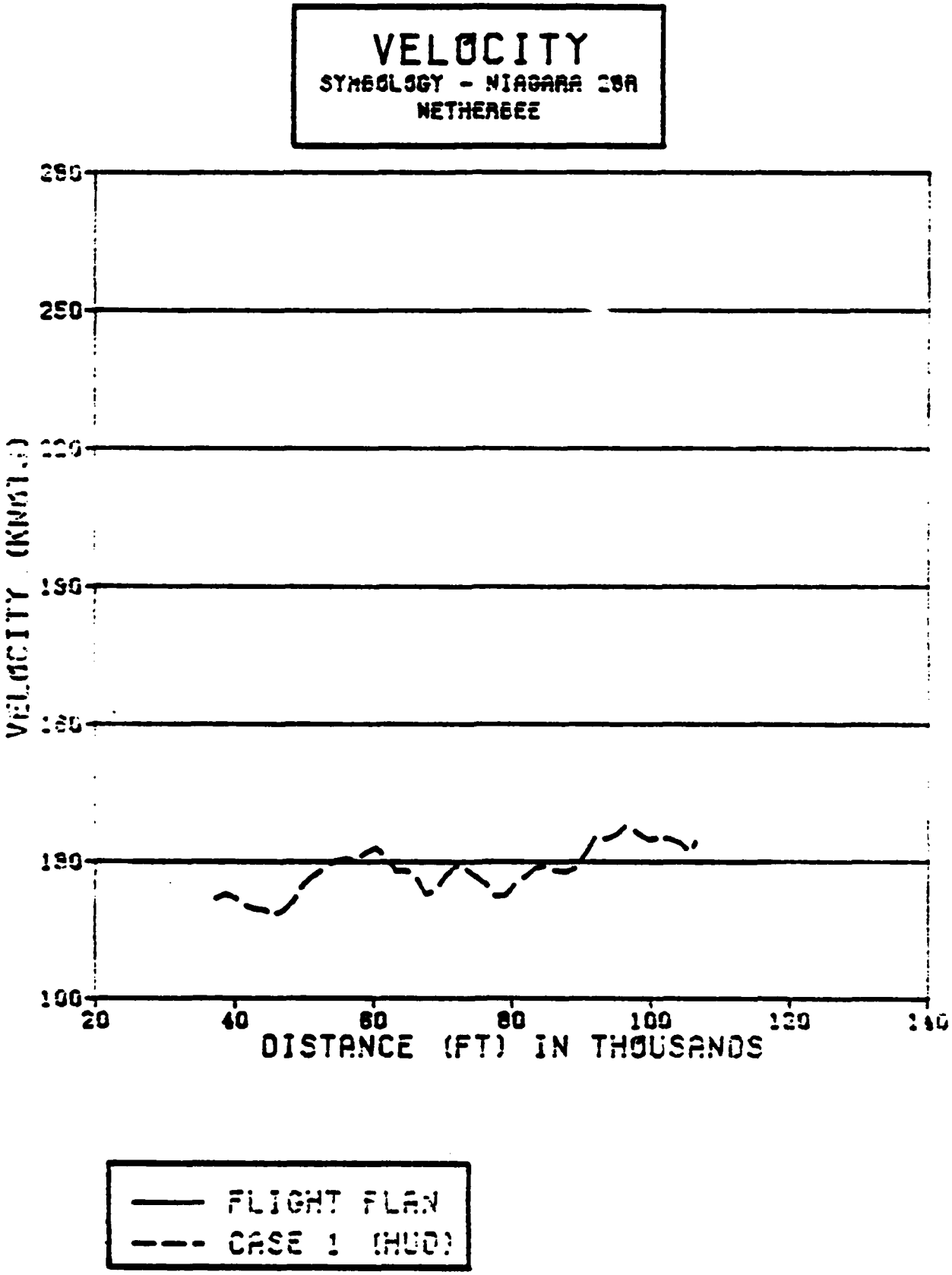

VELOCITY
SYMBOLOGY - ROUTES 2 & 3
WETHERBEE
VELOCITY (KNOTS)
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)
CASE 2 (HUD)

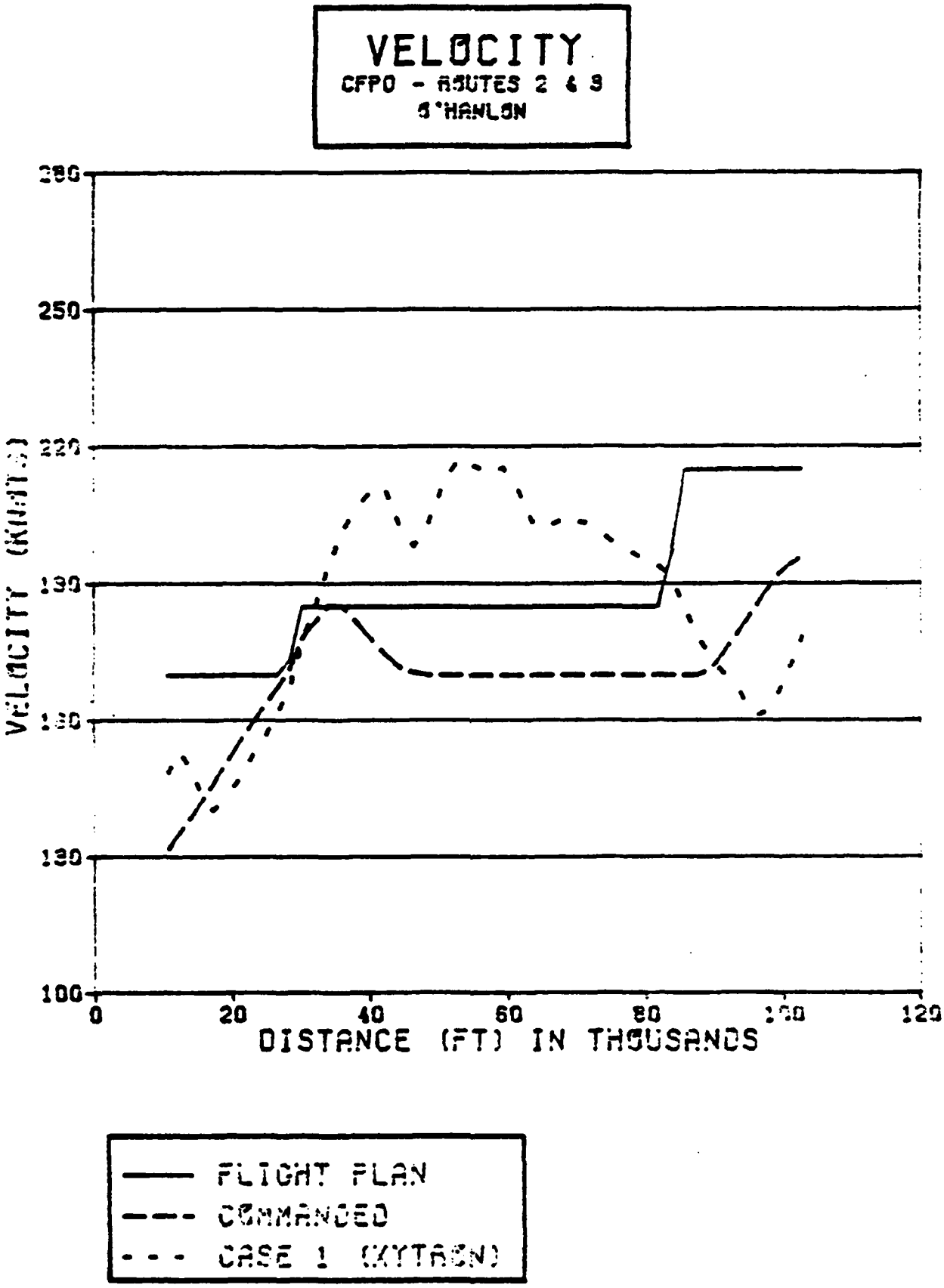

VELOCITY
SYMBOLOGY - ROUTES 4 & 5
WETHERBEE
VELOCITY (KNOTS)
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (KYTRON)
CASE 2 (HUD)

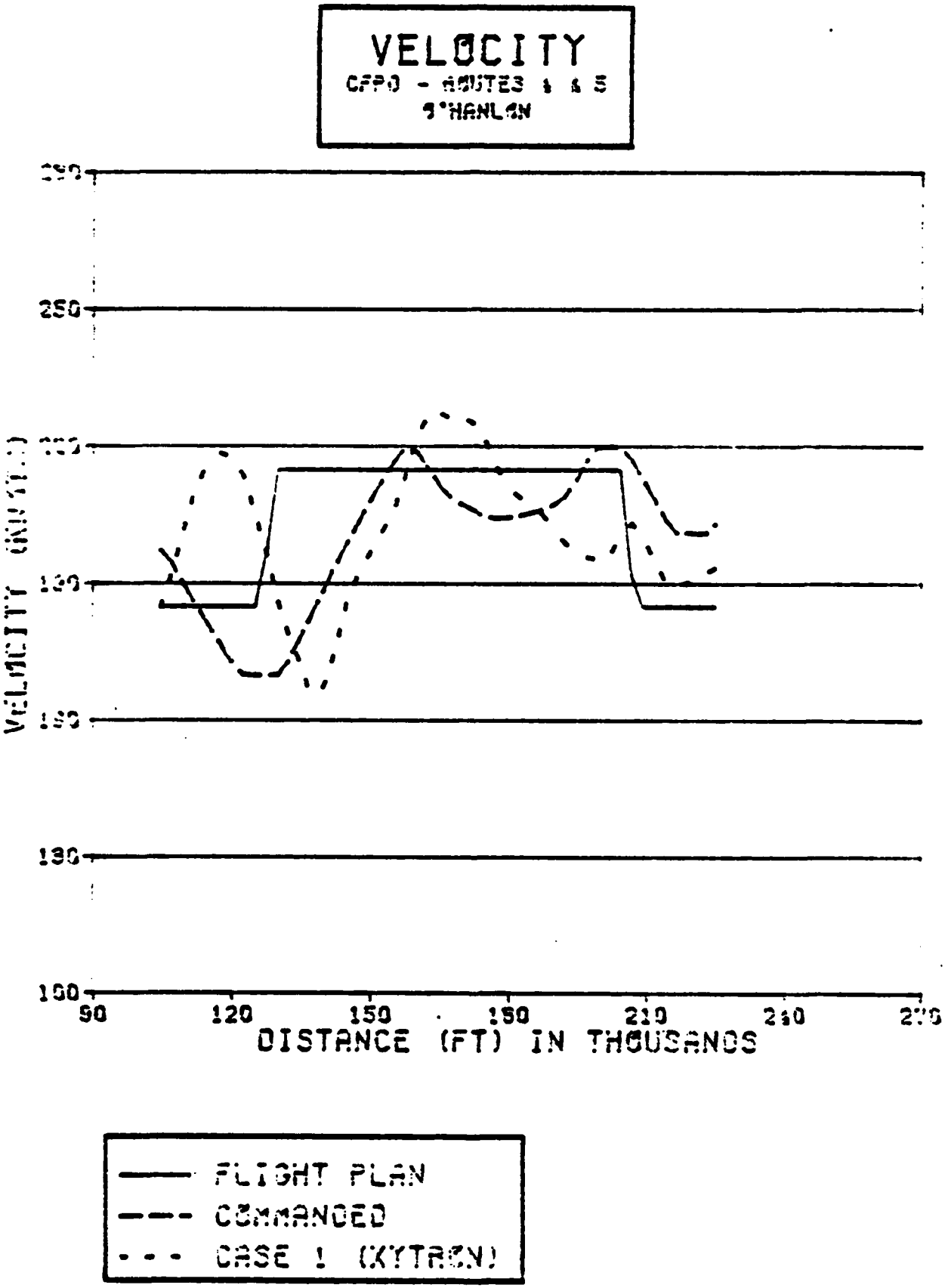

VELOCITY
SYMBOLOGY - ROUTES 6 & 7
WETHERBEE
VELOCITY (KNOTS)
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)
CASE 2 (HUD)

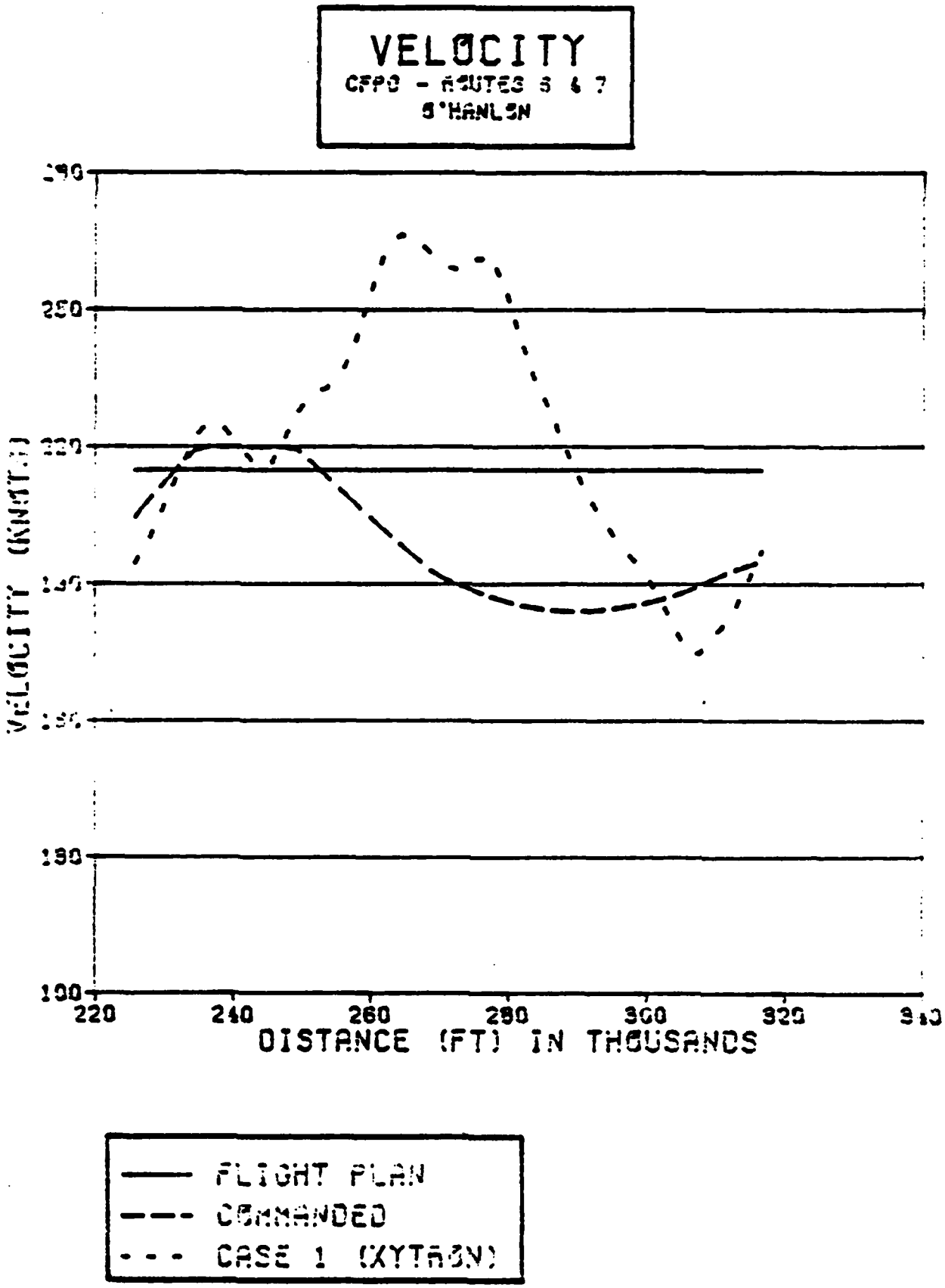

VELOCITY
SYMBOLOGY - ROUTES 8 & 9
WETHERBEE
250
190
100
300
320
340
360
380
400
420
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)
CASE 2 (HUD)

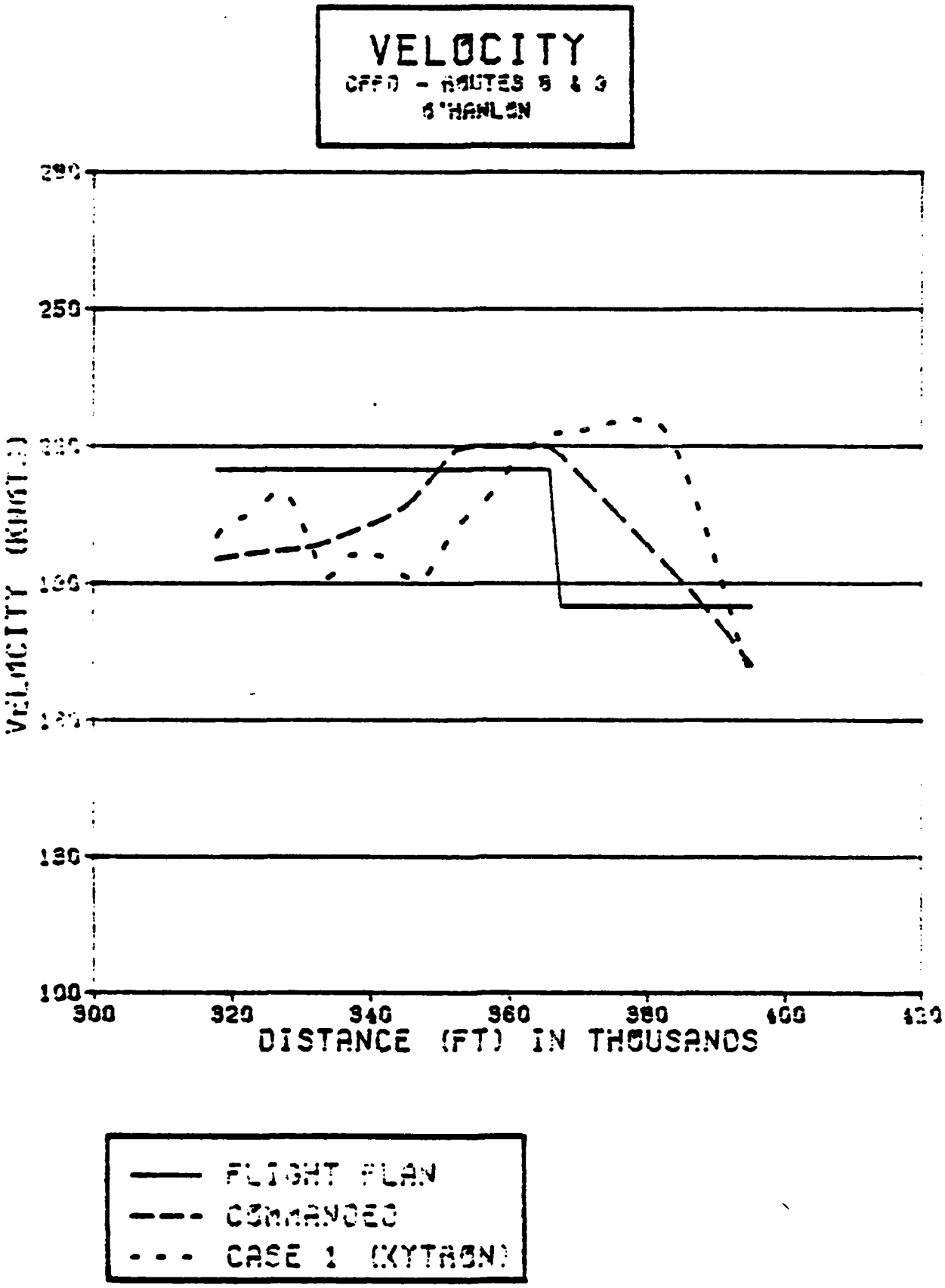

VELOCITY
SYMBOLOGY - ROUTES 10 & 11
WETHERBEE
VELOCITY (KNOTS)
250
250
220
190
160
130
100
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)
CASE 2 (HUD)

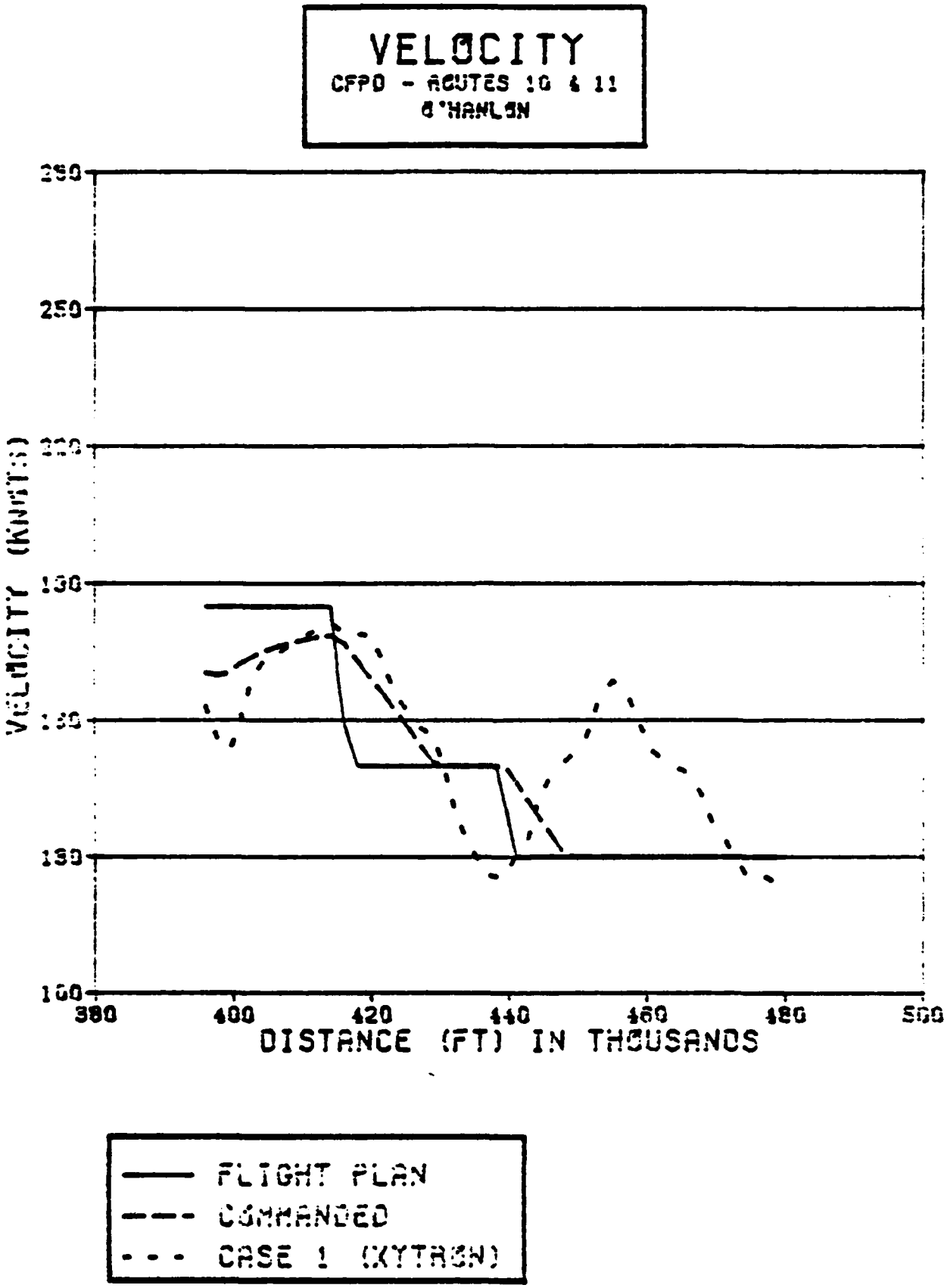

VELOCITY
SYMBOLOGY - NIAGARA 28R
NETHERBEE
VELOCITY (KNOTS)
250
190
180
100
20
40
60
80
100
120
140
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (HUD)

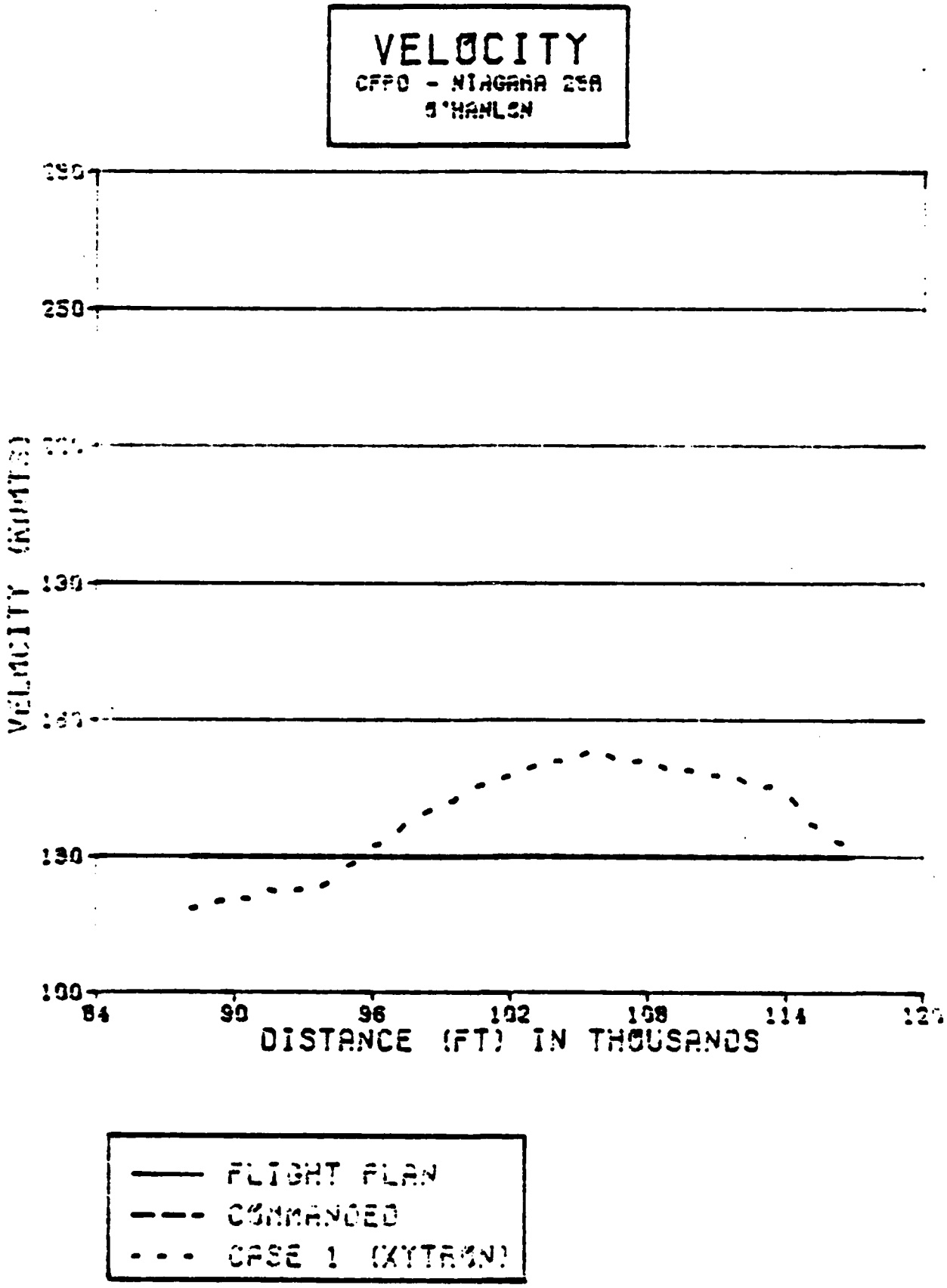

VELOCITY
CFPO - ROUTES 2 & 3
S'HANLON
280
250
220
190
160
130
100
VELOCITY (KNOTS)
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 1 (XYTRON)

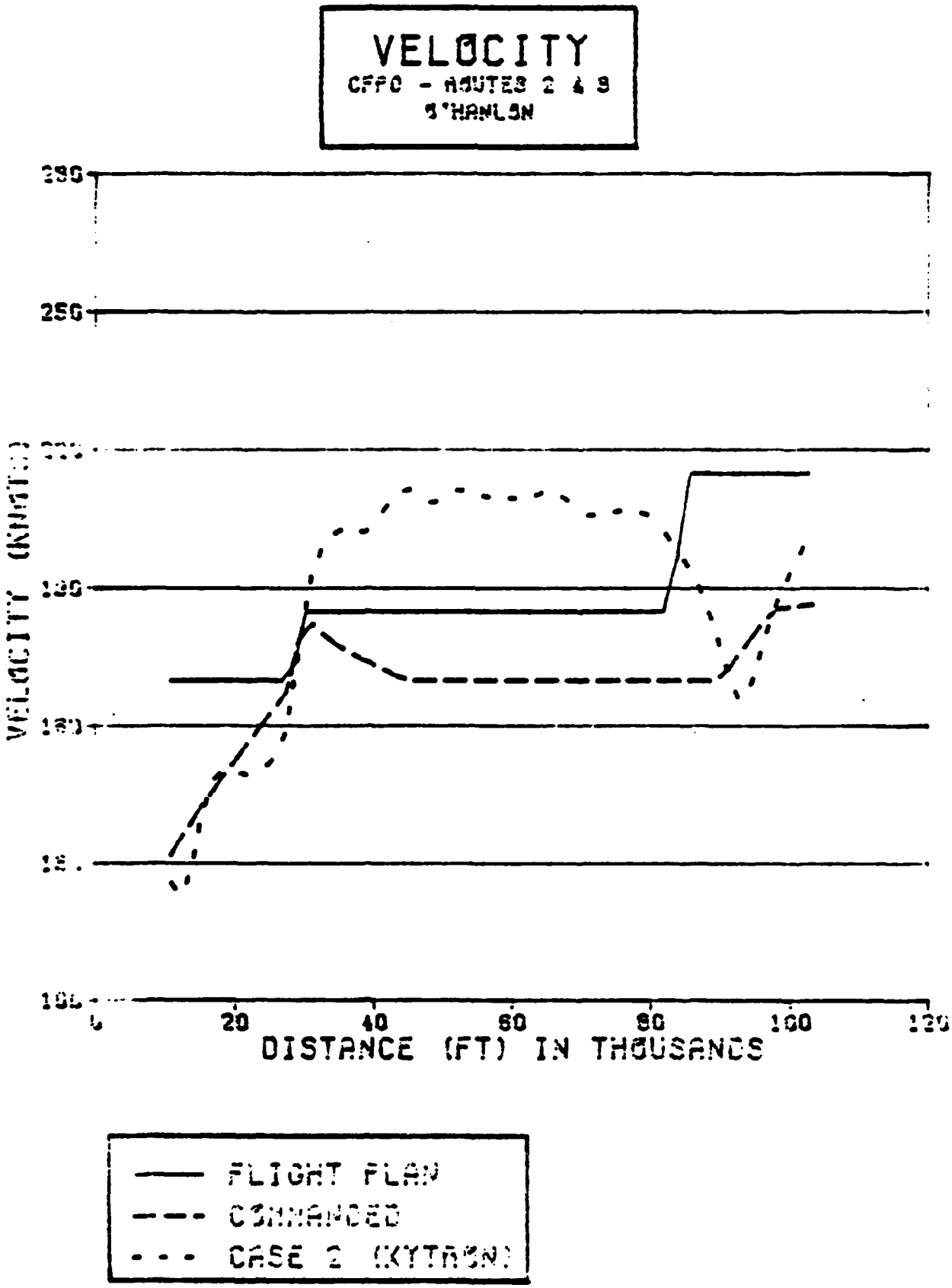

VELOCITY
CFPO - ROUTES 1 & 5
O'HANLON
250
100
90
120
150
180
210
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 1 (KYTRON)

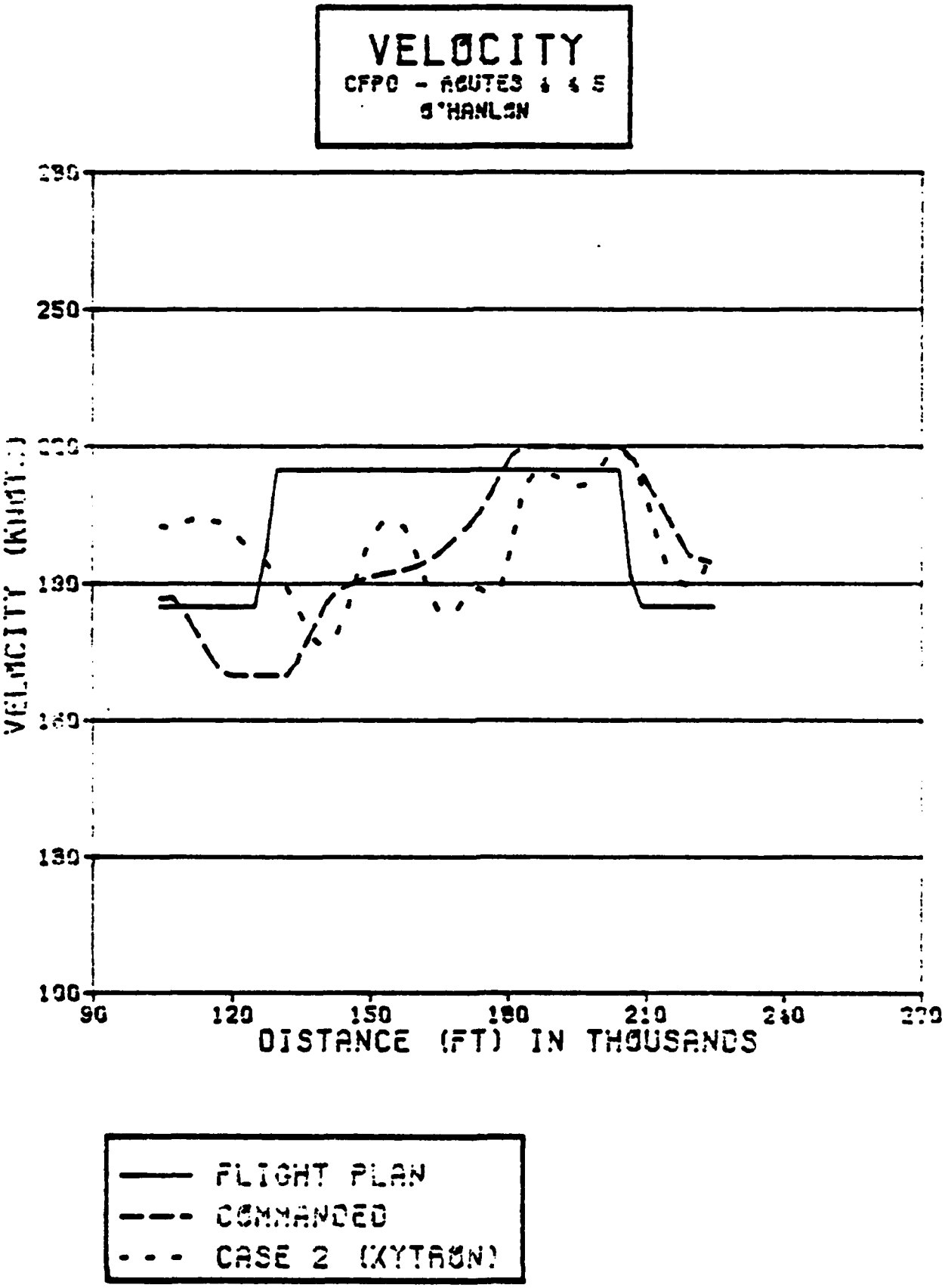

VELOCITY
CFPO - ROUTES 5 & 7
S'HANLON
VELOCITY (KNOTS)
DISTANCE (FT) IN THOUSANDS
220
240
260
280
300
320
100
FLIGHT PLAN
COMMANDED
CASE 1 (XYTRON)

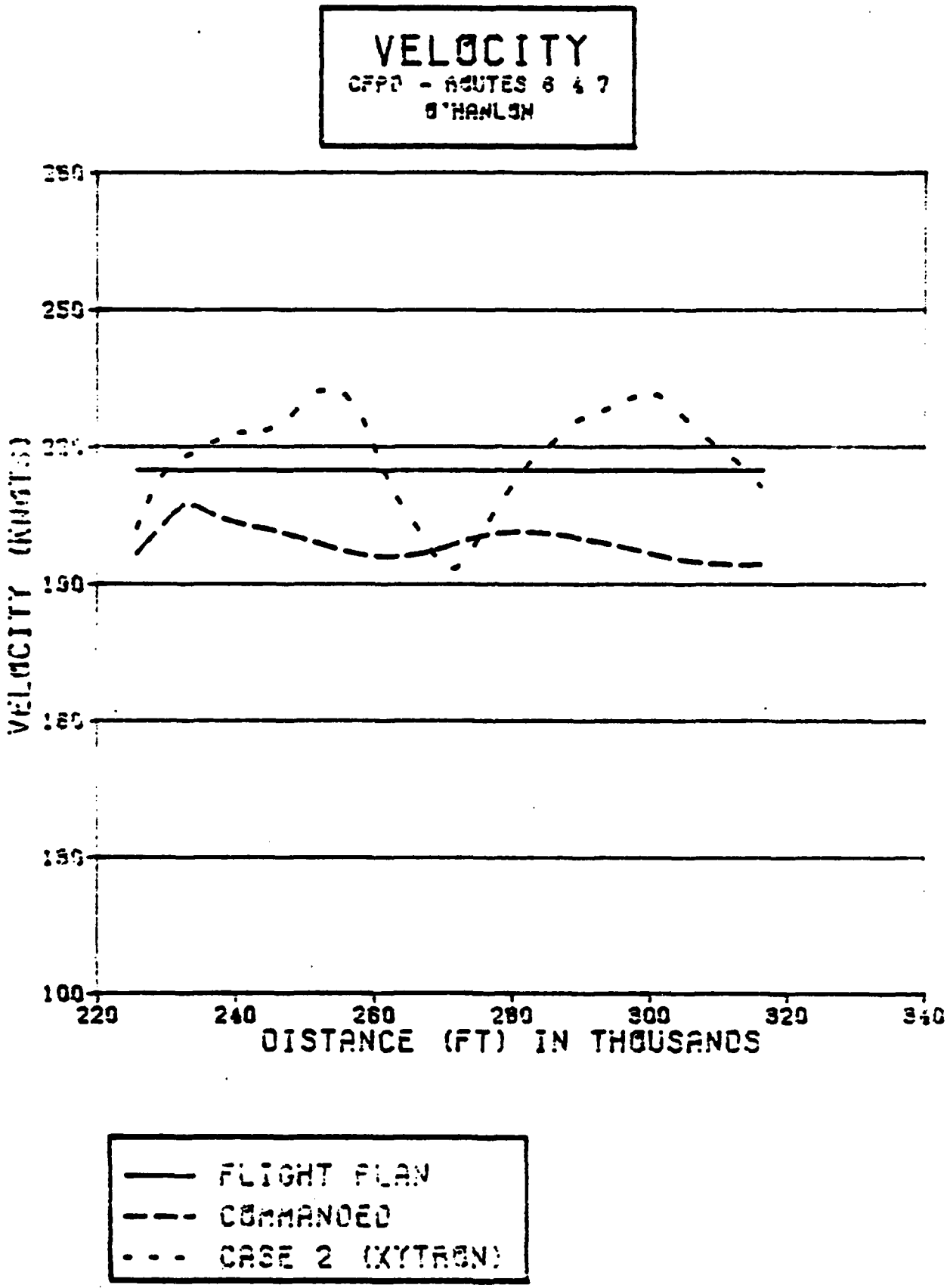

VELOCITY
CFFD - ROUTES 5 & 3
O'HANLON
250
130
100
300
320
340
360
380
400
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 1 (KYTRON)

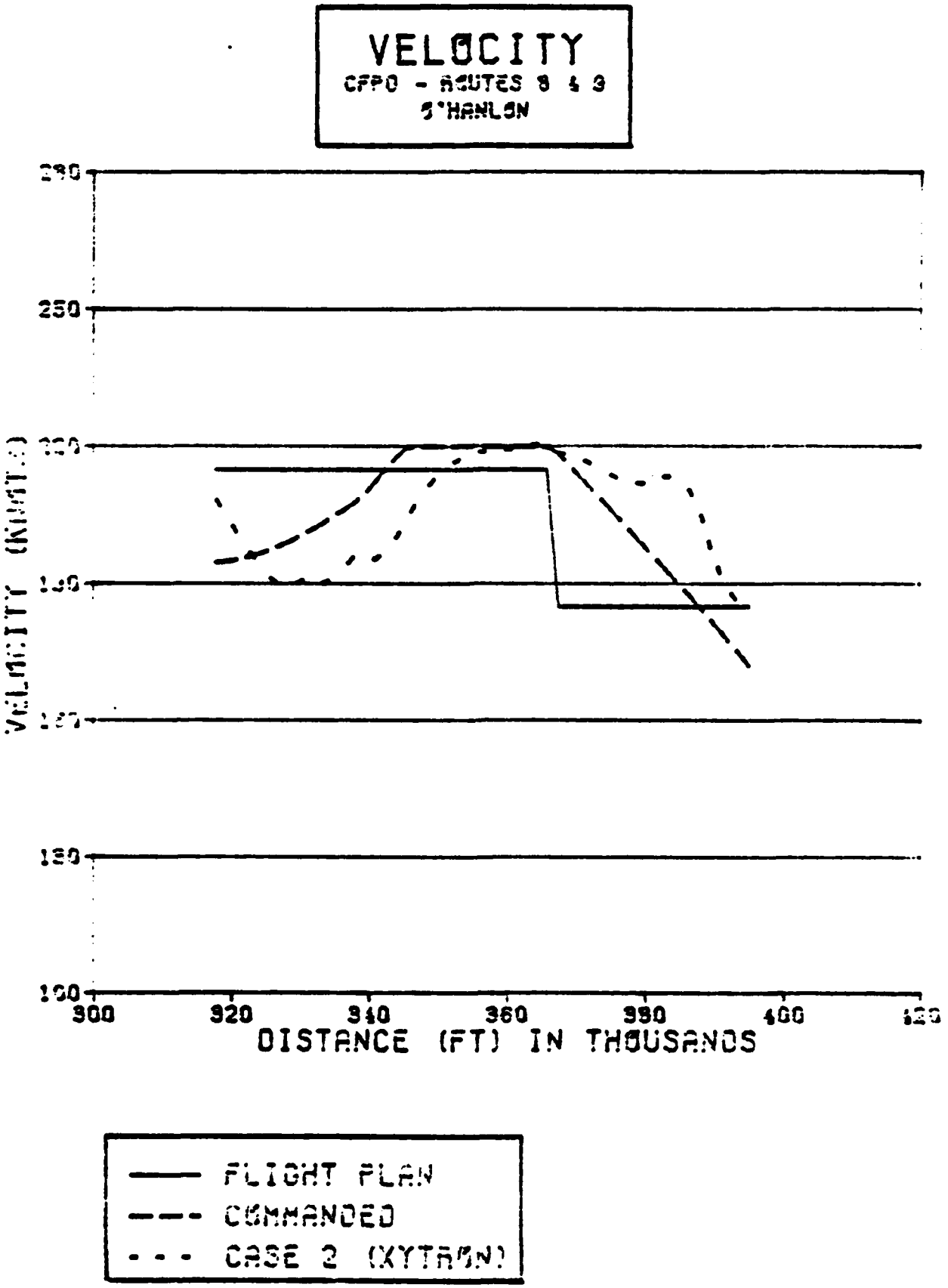

VELOCITY
CFPD - ROUTES 10 & 11
O'HANLON
VELOCITY (KNOTS)
250
200
150
100
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 1 (XYTRON)

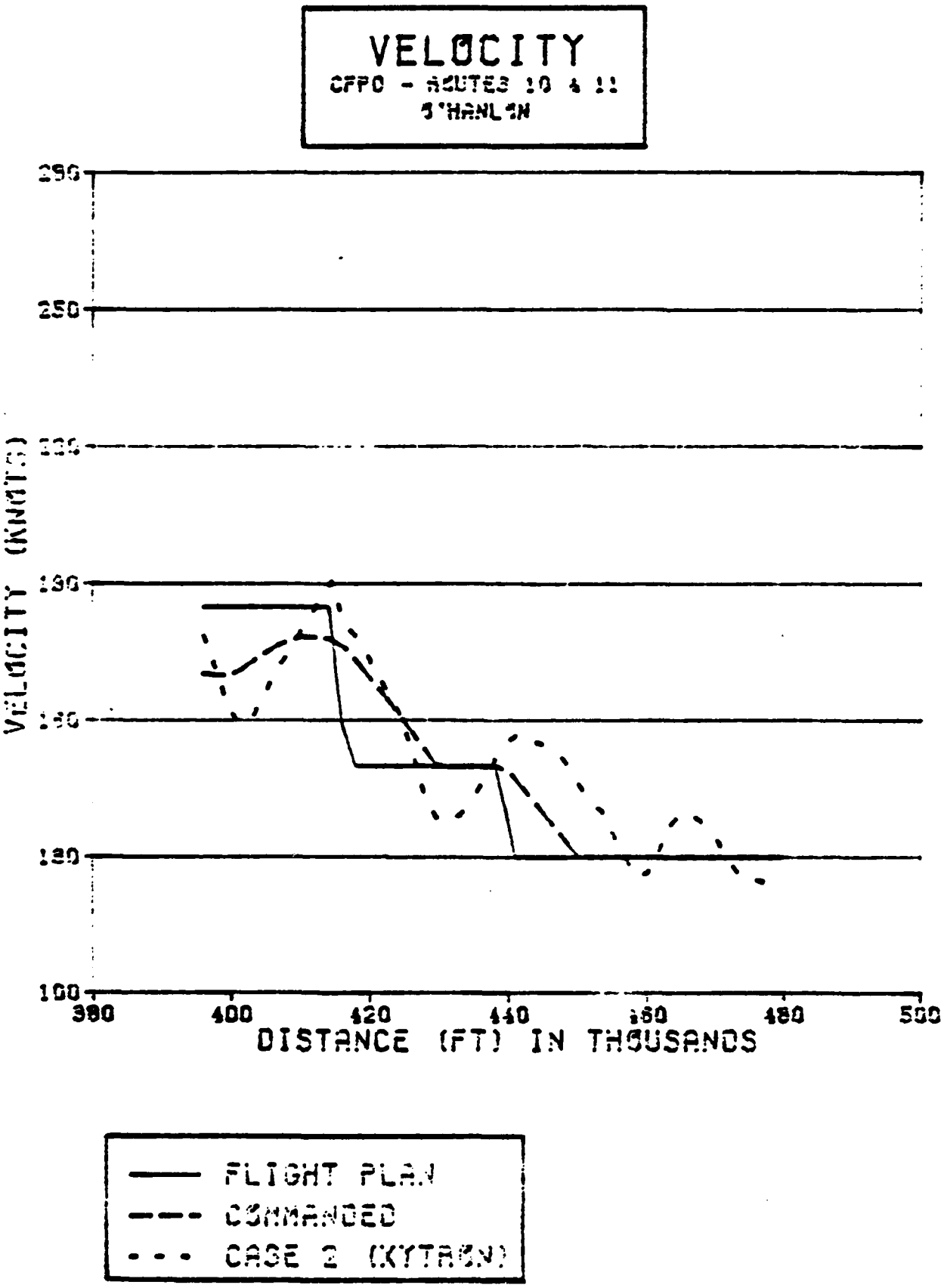

VELOCITY
CFPD - NIAGARA 25A
O'HANLON
250
130
100
84
90
96
102
108
114
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 1 (XYTRON)

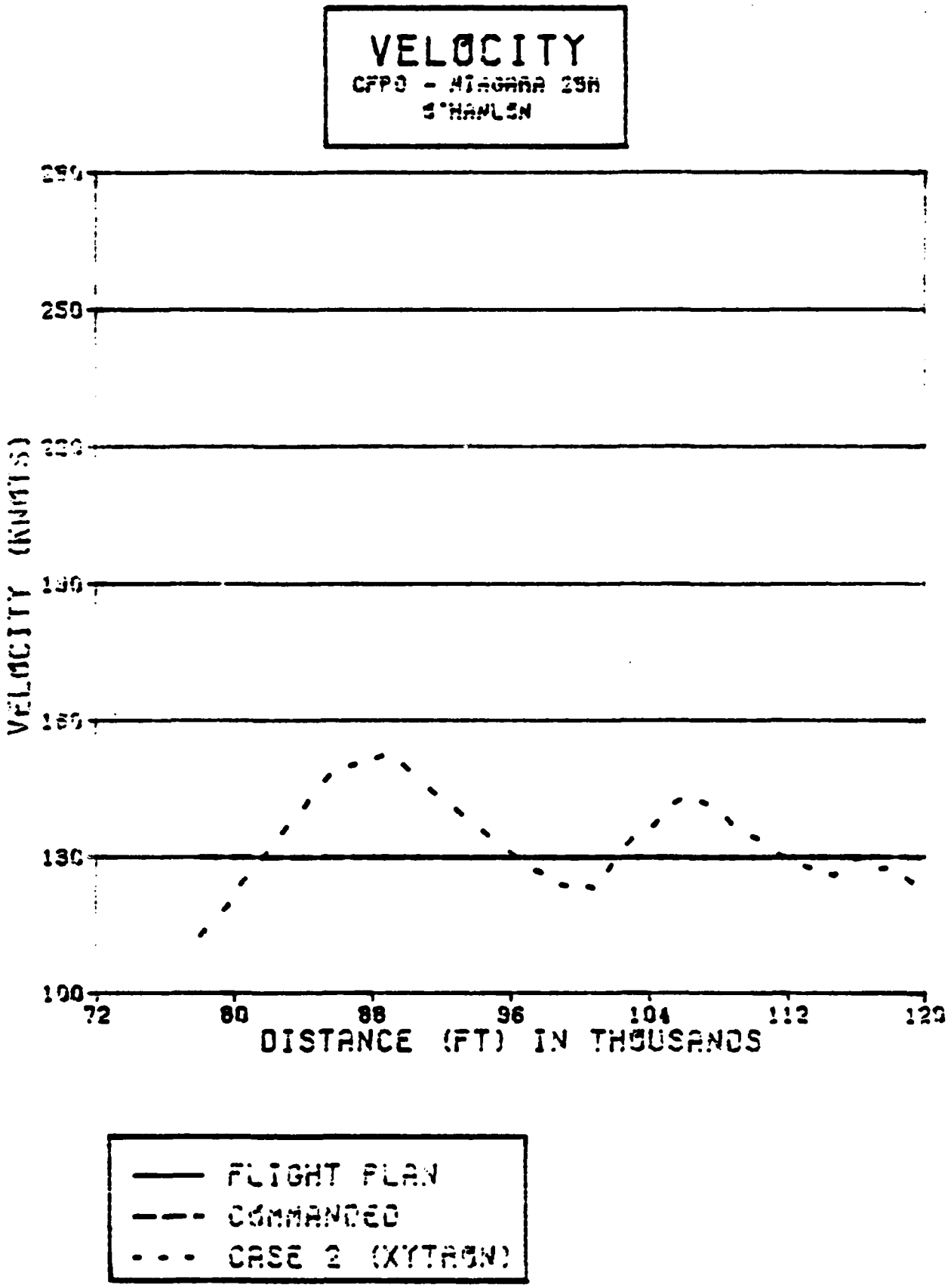

VELOCITY
CFPO - ROUTES 2 & 3
O'HANLON
250
VELOCITY (KNOTS)
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 2 (KYTRON)

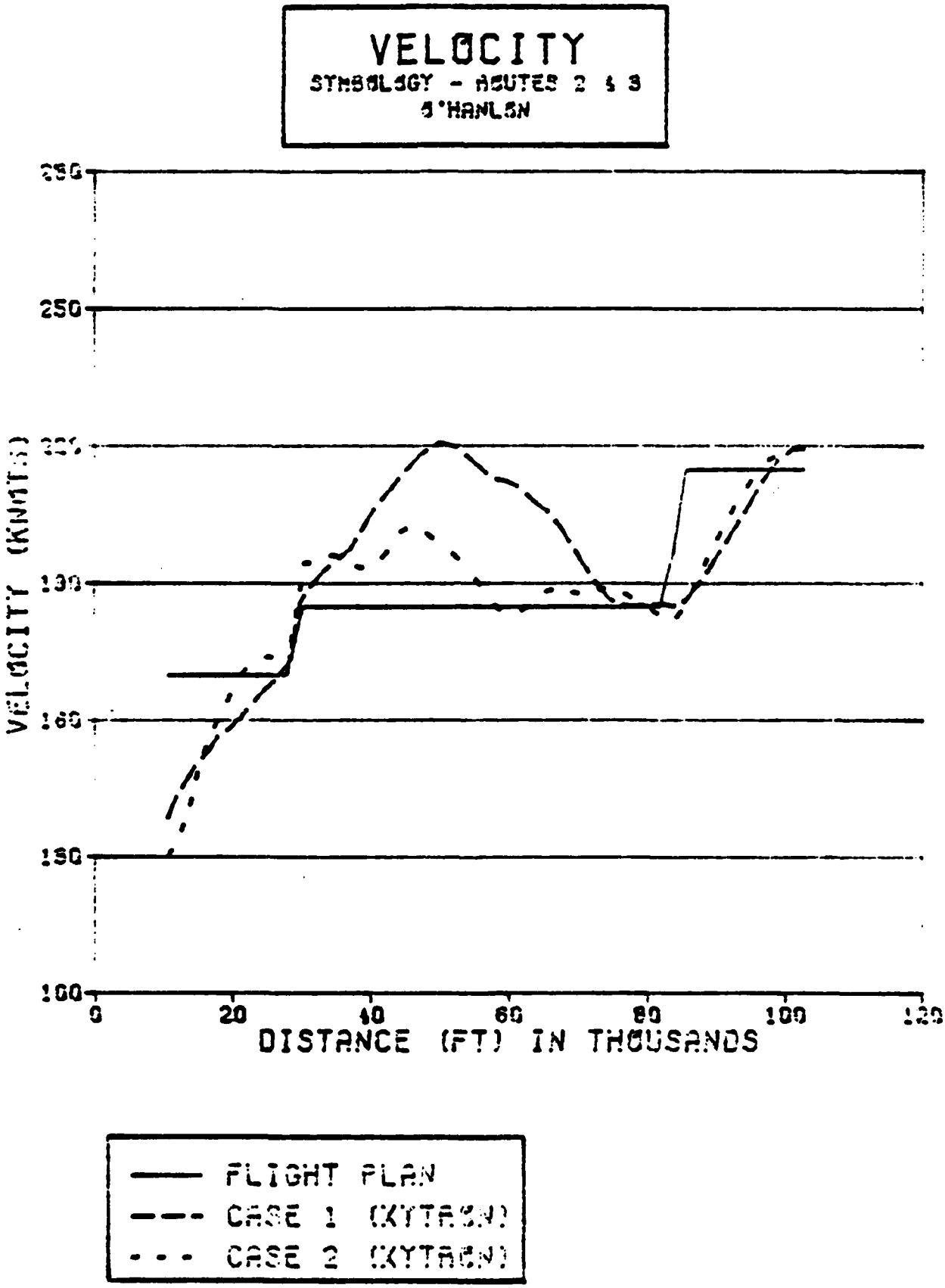

VELOCITY
CFPO - ROUTES 4 & 5
O'HANLON
250
100
90
120
150
180
210
240
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 2 (XYTRON)

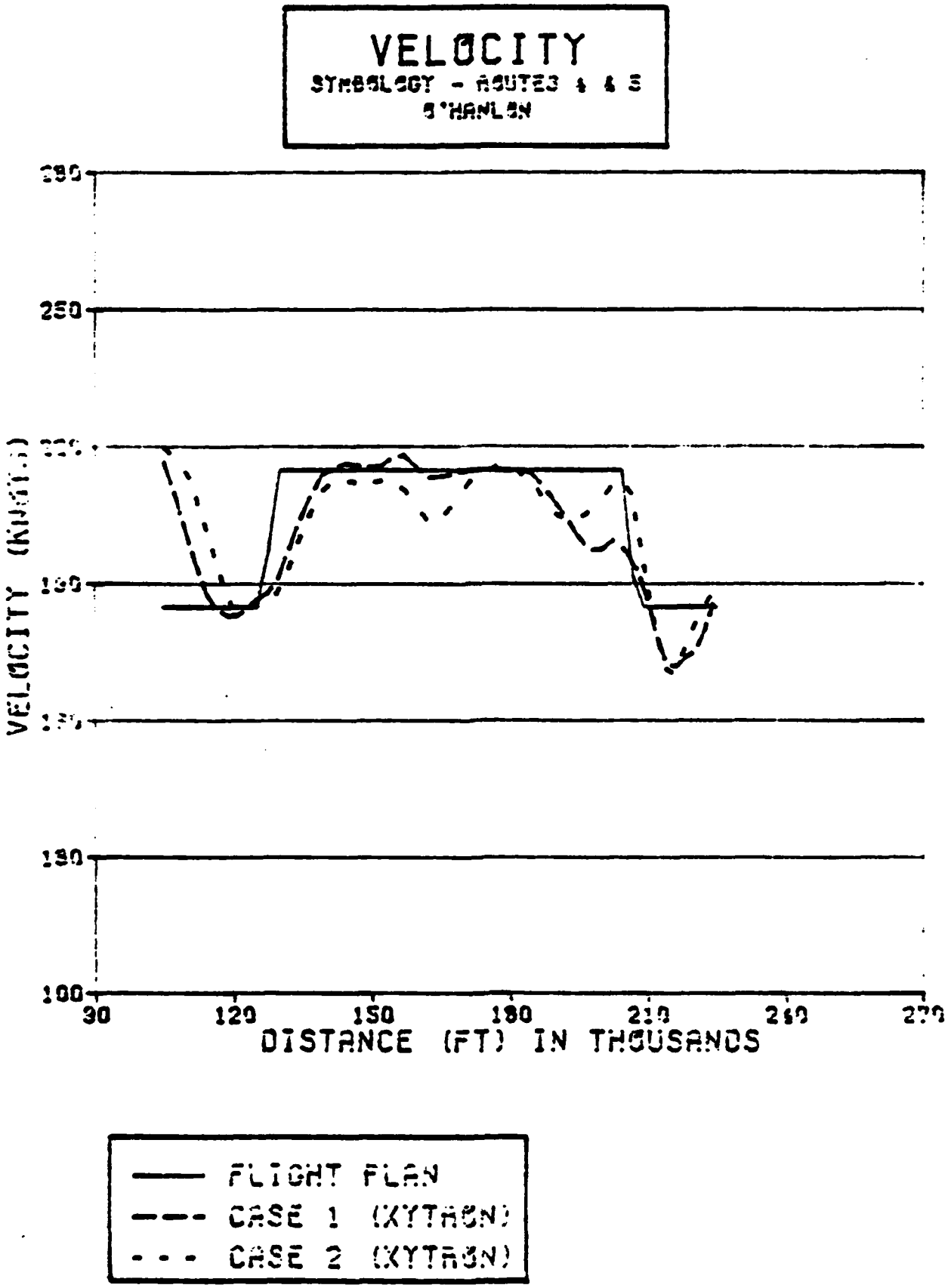

VELOCITY
CFPO - ROUTES 6 & 7
O'HANLON
250
100
220
240
260
280
300
320
340
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 2 (XYTRON)

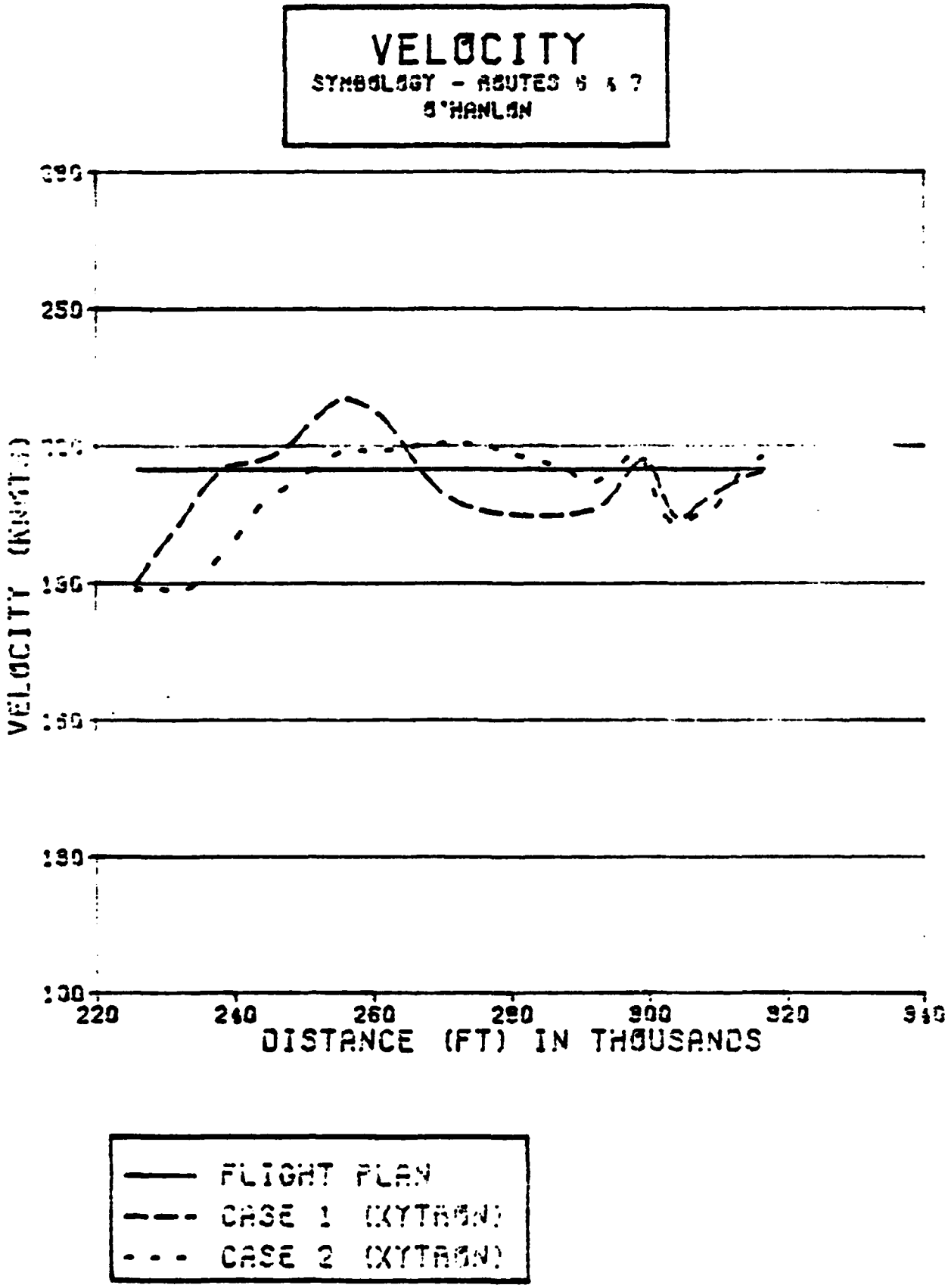

VELOCITY
CFPO - ROUTES 8 & 9
O'HANLON
250
300
320
340
360
380
400
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 2 (XYTRON)

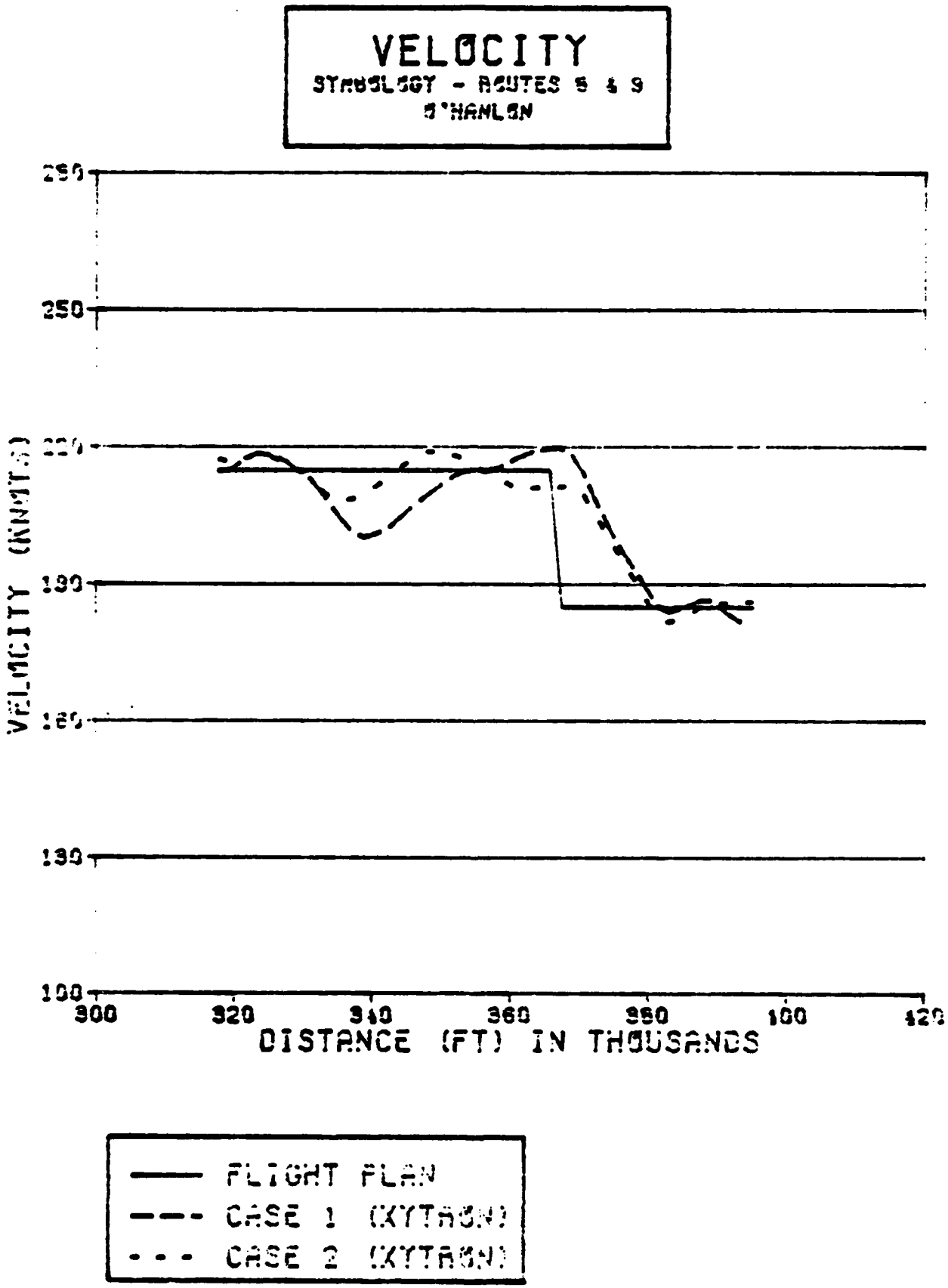

VELOCITY
CFPO - ROUTES 10 & 11
O'HANLON
VELOCITY (KNOTS)
250
100
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 2 (KYTRON)

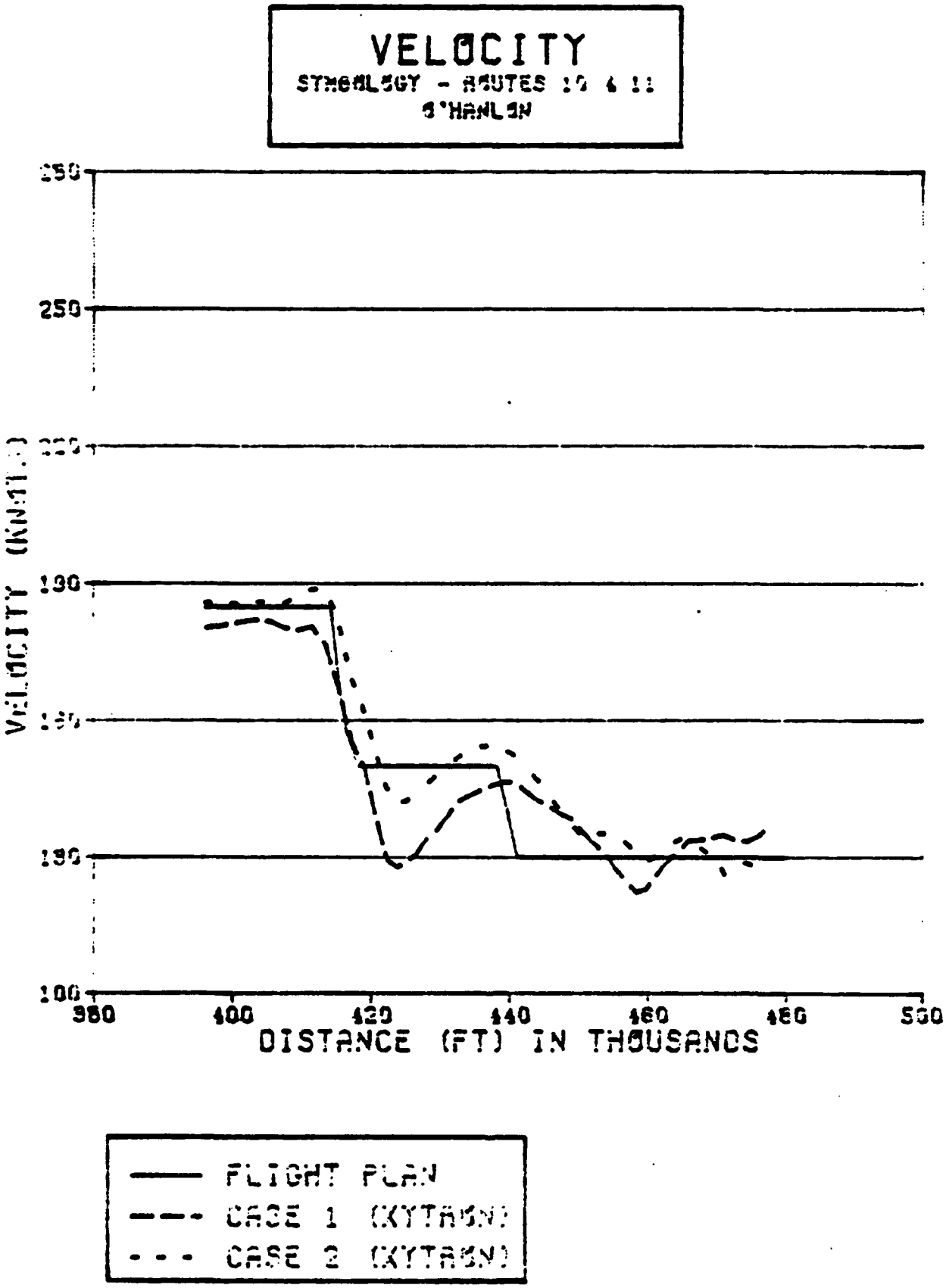

VELOCITY
CFPO - MIAGARA 25H
O'HANLON
VELOCITY (KNOTS)
250
130
100
72
80
88
96
104
112
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 2 (XYTRON)

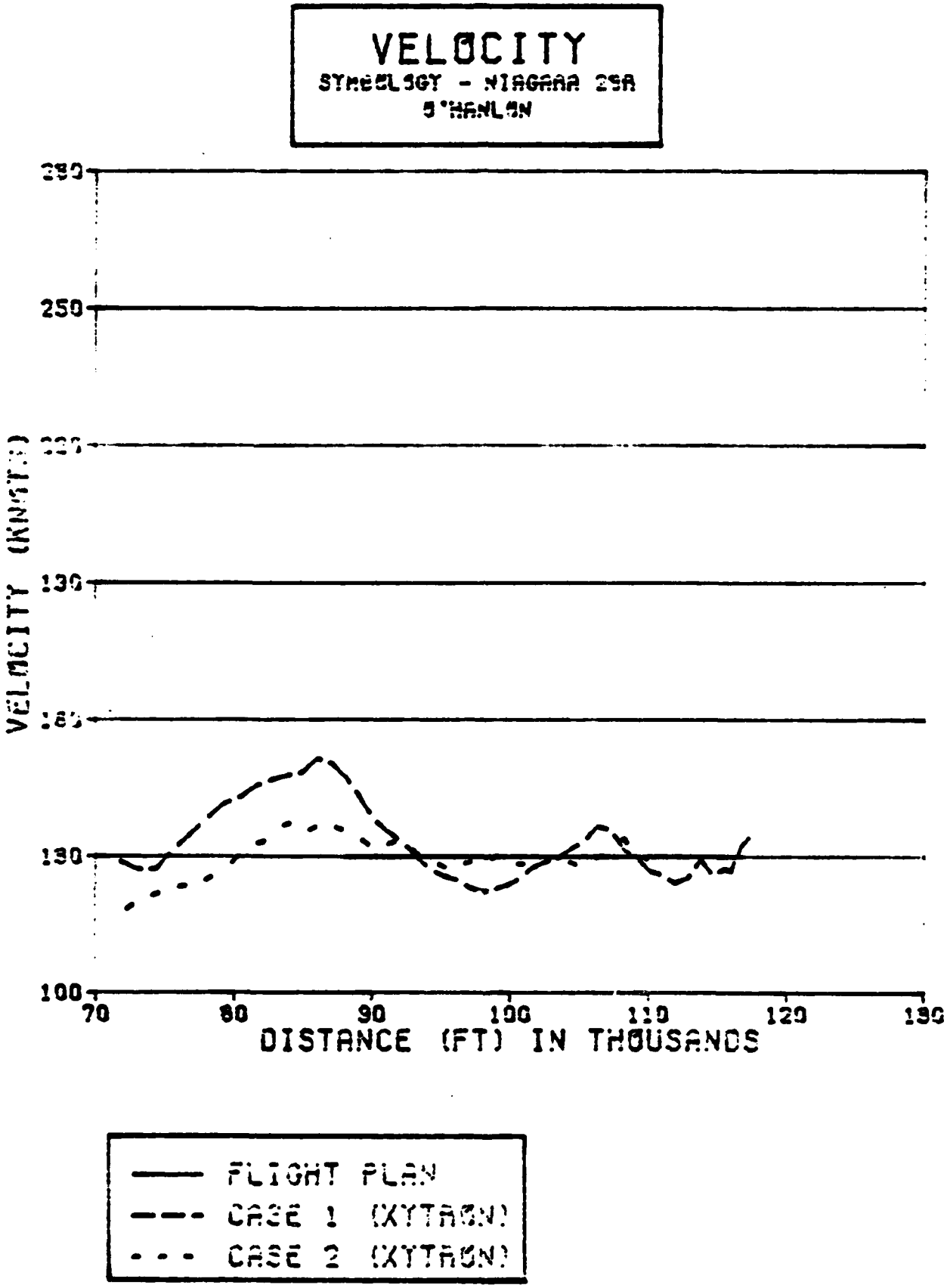

VELOCITY
SYMBOLOGY - ROUTES 2 & 3
O'HANLON
VELOCITY (KNOTS)
250
100
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (KYTRON)
CASE 2 (KYTRON)

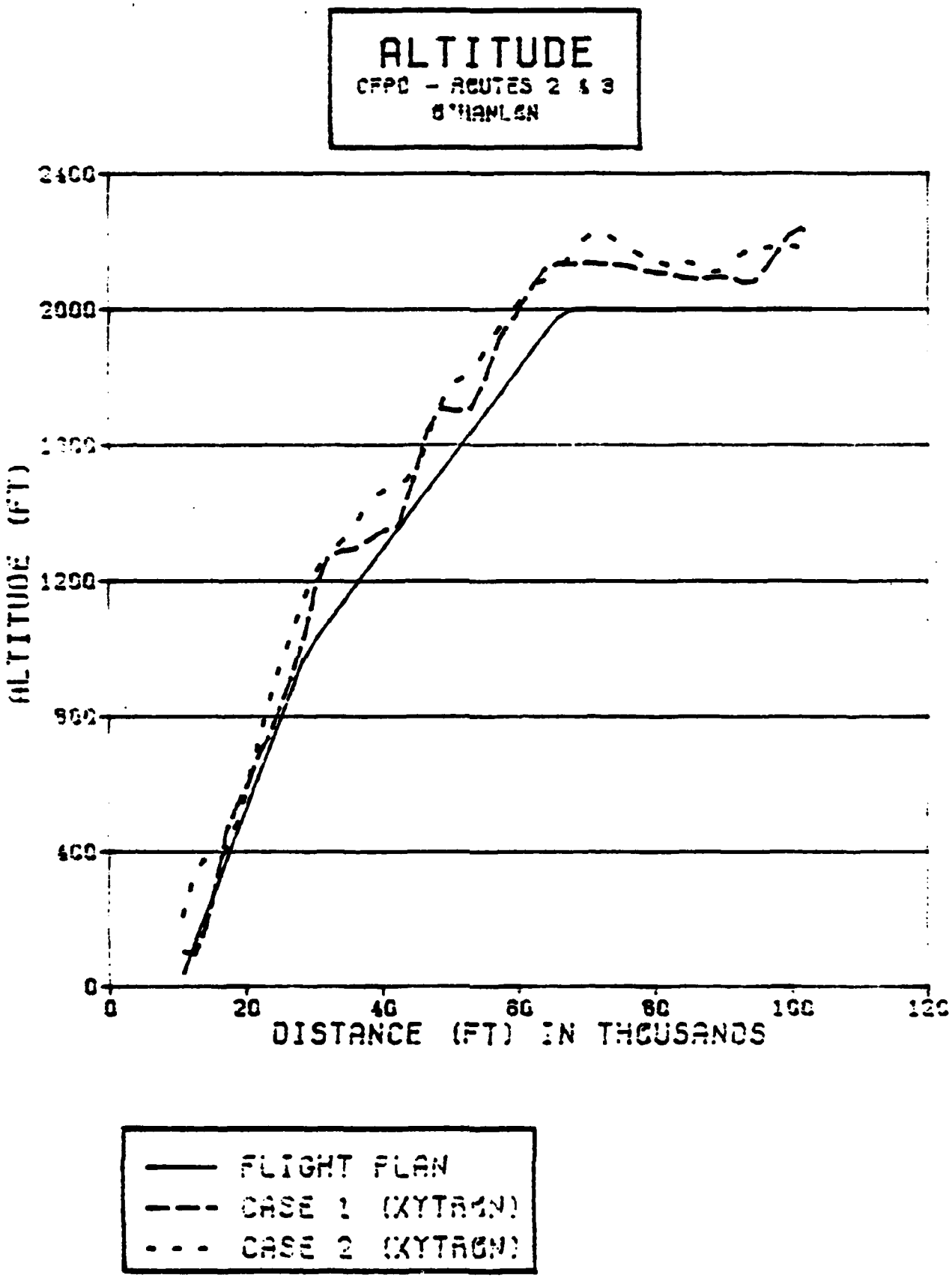

VELOCITY
SYMBOLOGY - ROUTES 4 & 5
O'HANLON
VELOCITY (KNOTS)
250
200
150
100
30
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)
CASE 2 (XYTRON)

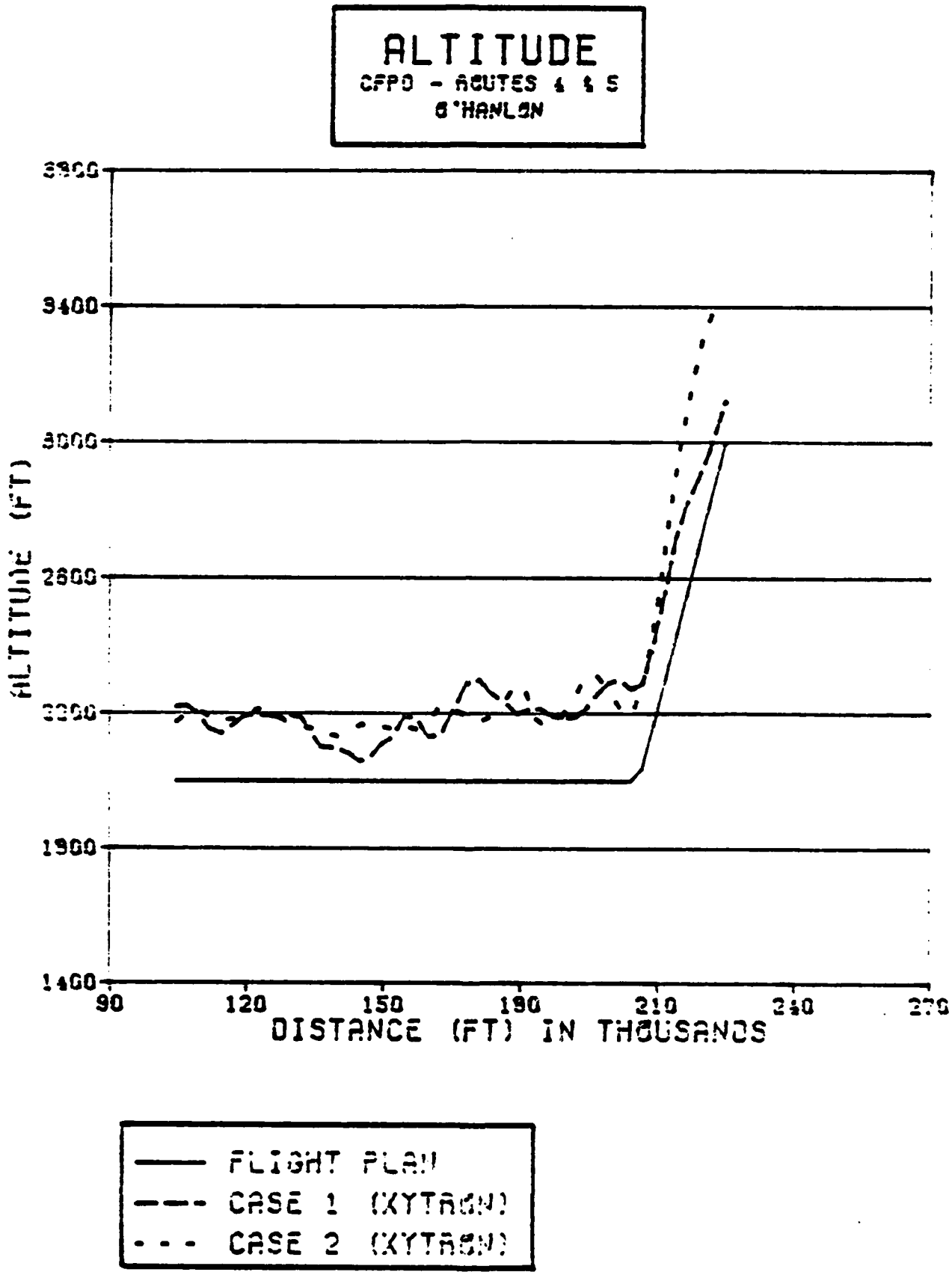

VELOCITY
SYMBOLOGY - ROUTES 6 & 7
O'HANLON
250
VELOCITY (KNOTS)
220
240
260
280
300
320
340
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)
CASE 2 (XYTRON)


VELOCITY
STABOLOGY - ROUTES 5 & 9
O'HANLON
250
130
100
300
320
340
360
380
400
420
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)
CASE 2 (XYTRON)

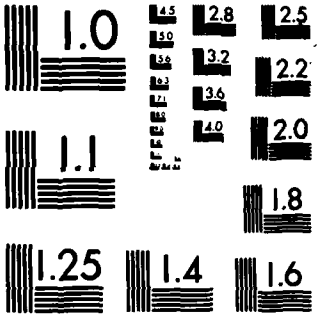

VELOCITY
STMBOLOGY - ROUTES 10 & 11
O'HANLON
250
190
100
VELOCITY (KNOTS)
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)
CASE 2 (XYTRON)


VELOCITY
SYMBOLOGY - NIAGARA 29A
O'HANLON
VELOCITY (KNOTS)
250
130
100
70
80
90
100
110
120
130
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)
CASE 2 (XYTRON)

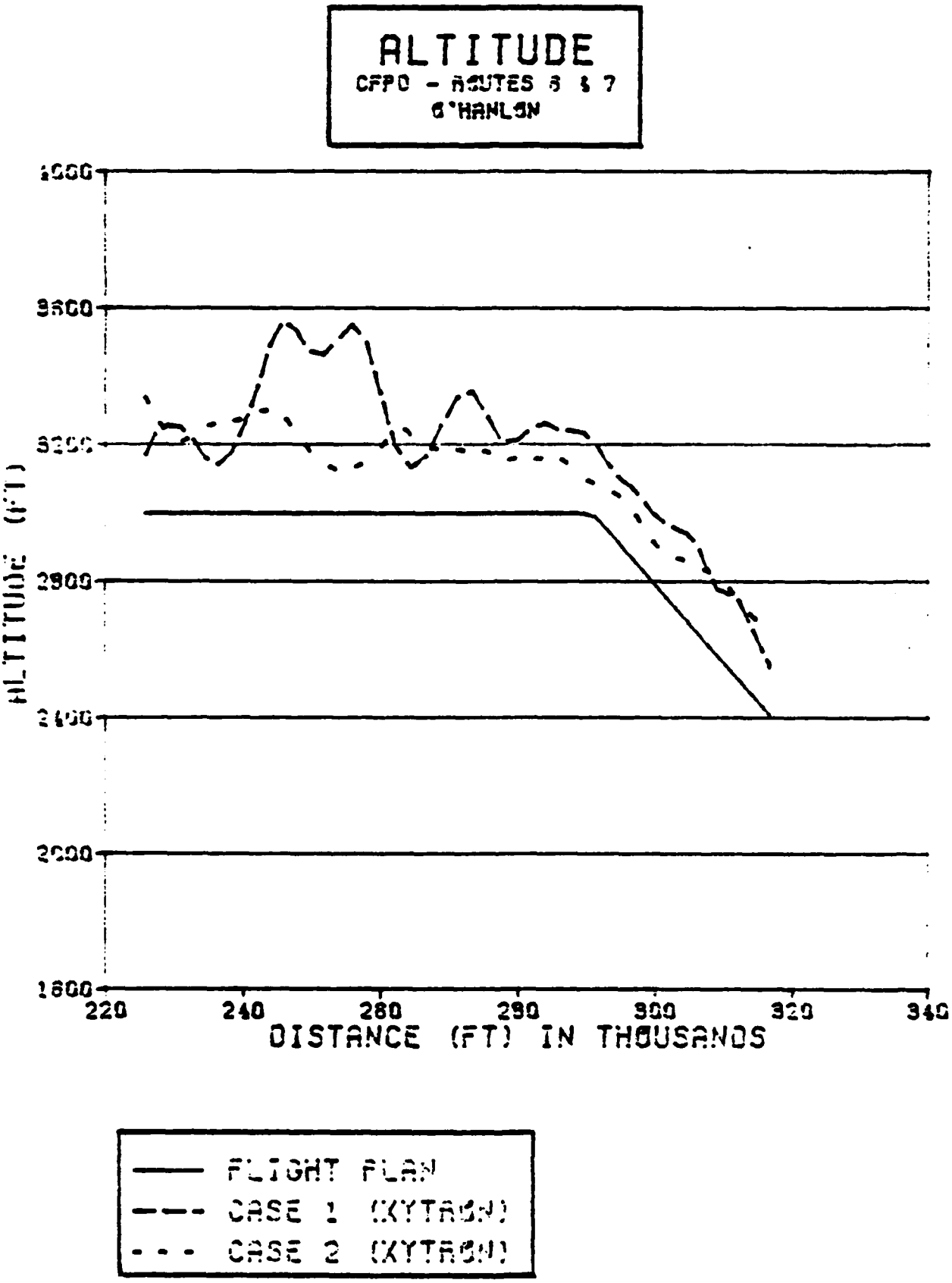

ALTITUDE
CFPC - ROUTES 2 & 3
6"HANLON
2400
2000
1600
1200
800
400
0
ALTITUDE (FT)
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)
CASE 2 (XYTRON)

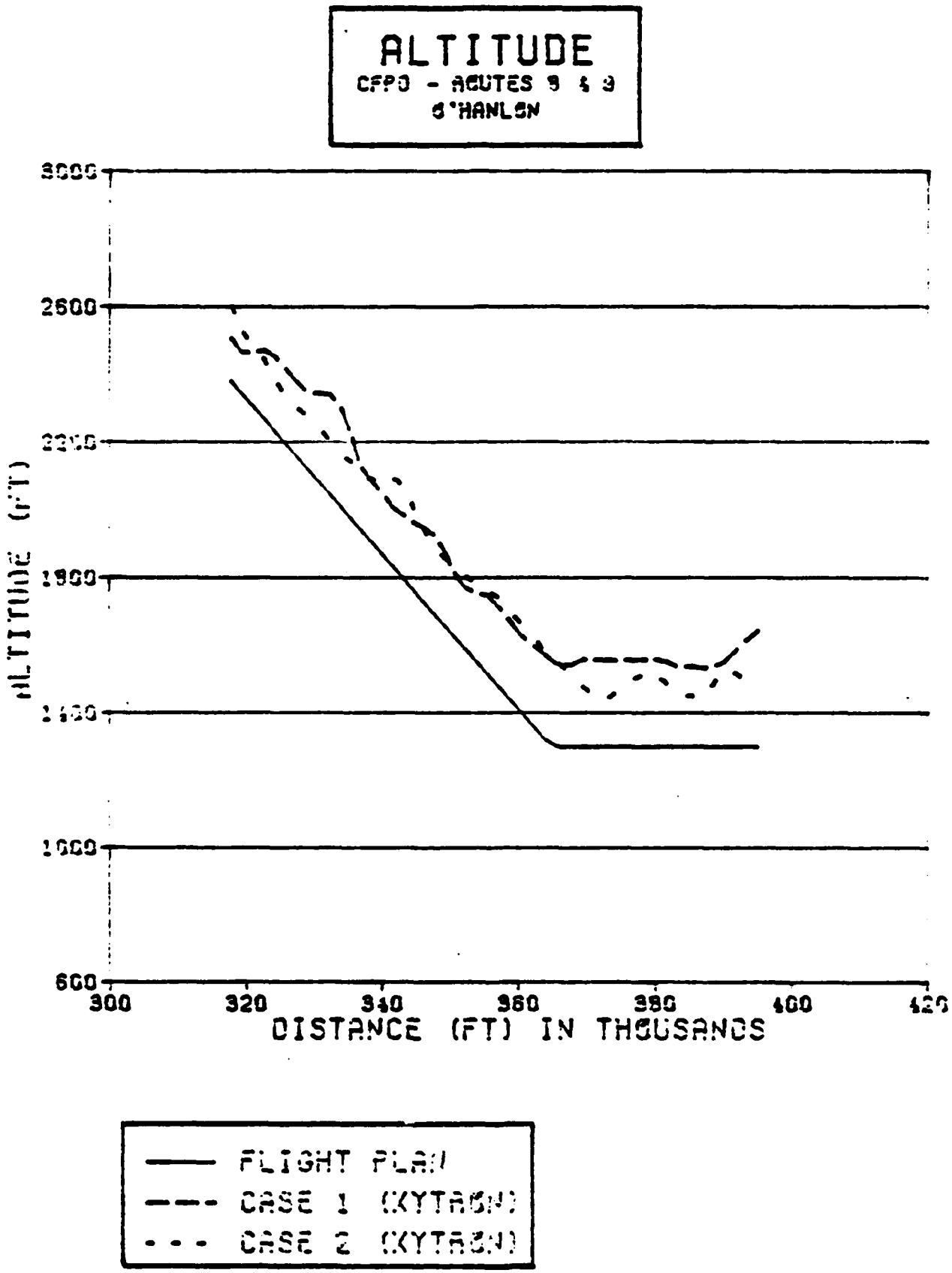

ALTITUDE
CFPO - ROUTES 4 & 5
O'HANLON
3800
3400
3000
2600
2200
1800
1400
ALTITUDE (FT)
90
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)
CASE 2 (XYTRON)

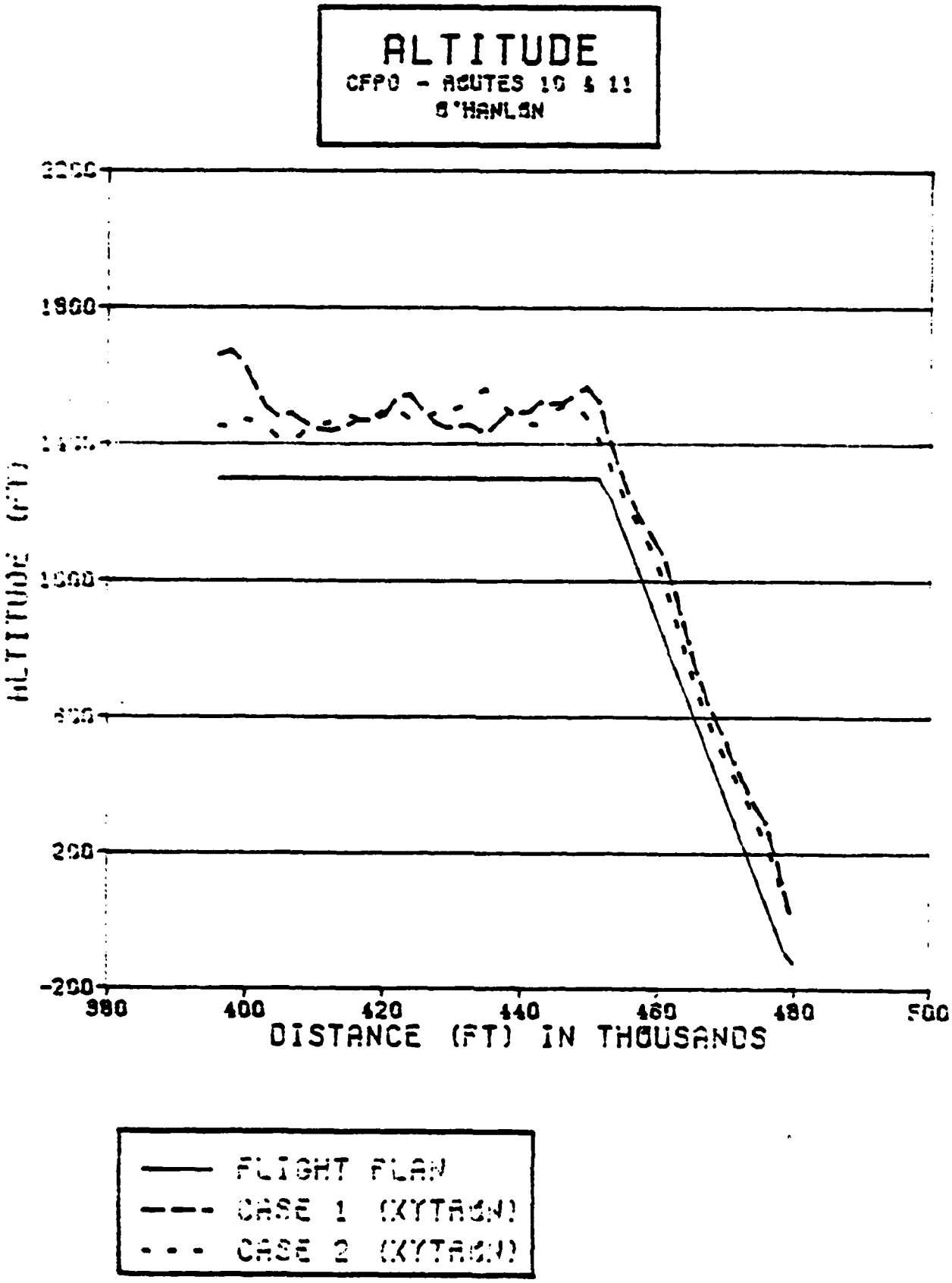
AD-A145 858 COMMAND FLIGHT PATH DISPLAY PHASE I AND II APPENDIX F 2/3
(U) SYSTEMS ASSOCIATES INC LONG BEACH CA RESOURCE
MANAGEMENT SYSTEMS DIV SEP 83 SAI-83-01
UNCLASSIFIED F33615-79-C-3618 F/G 1/4 NL

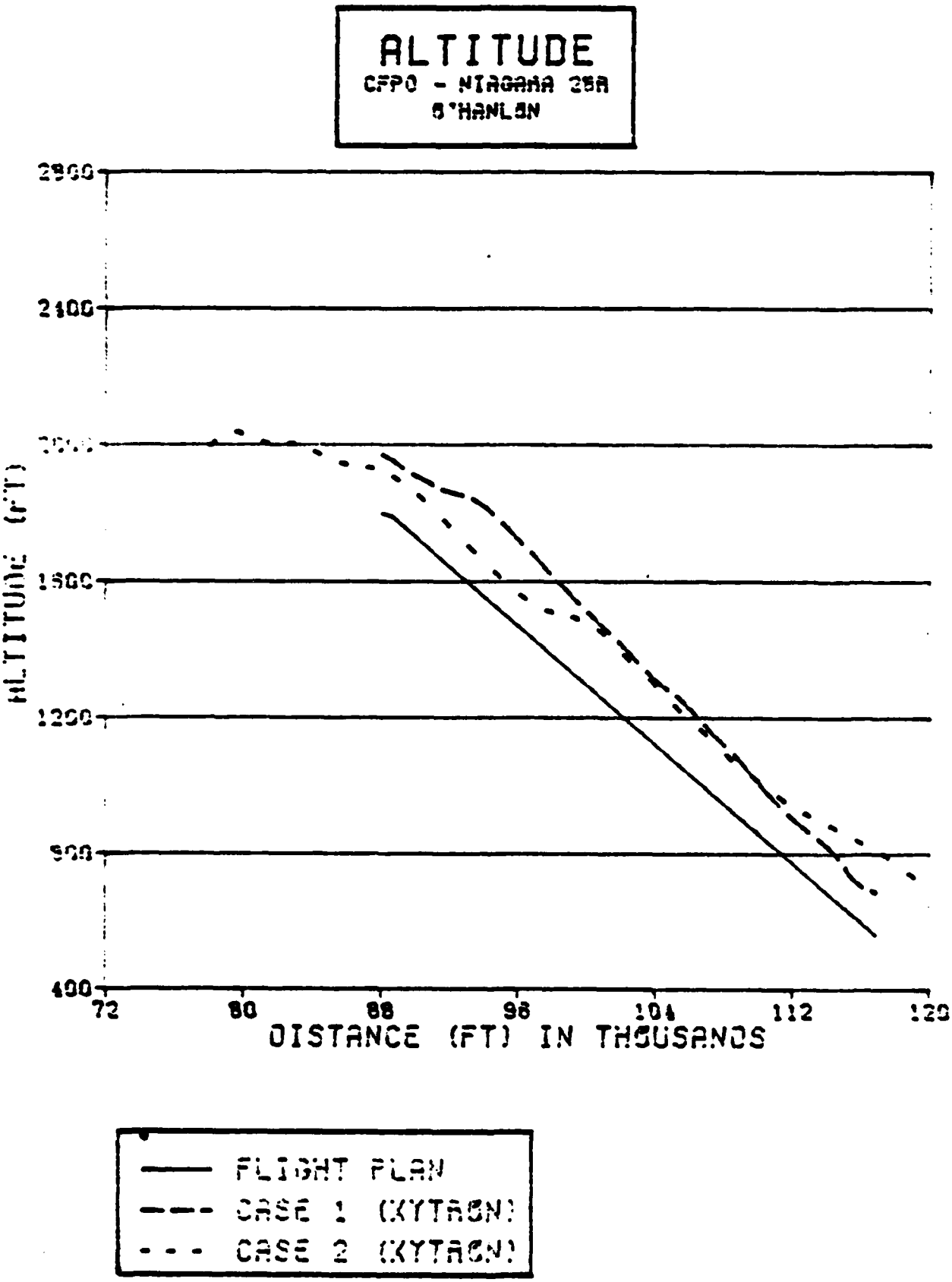


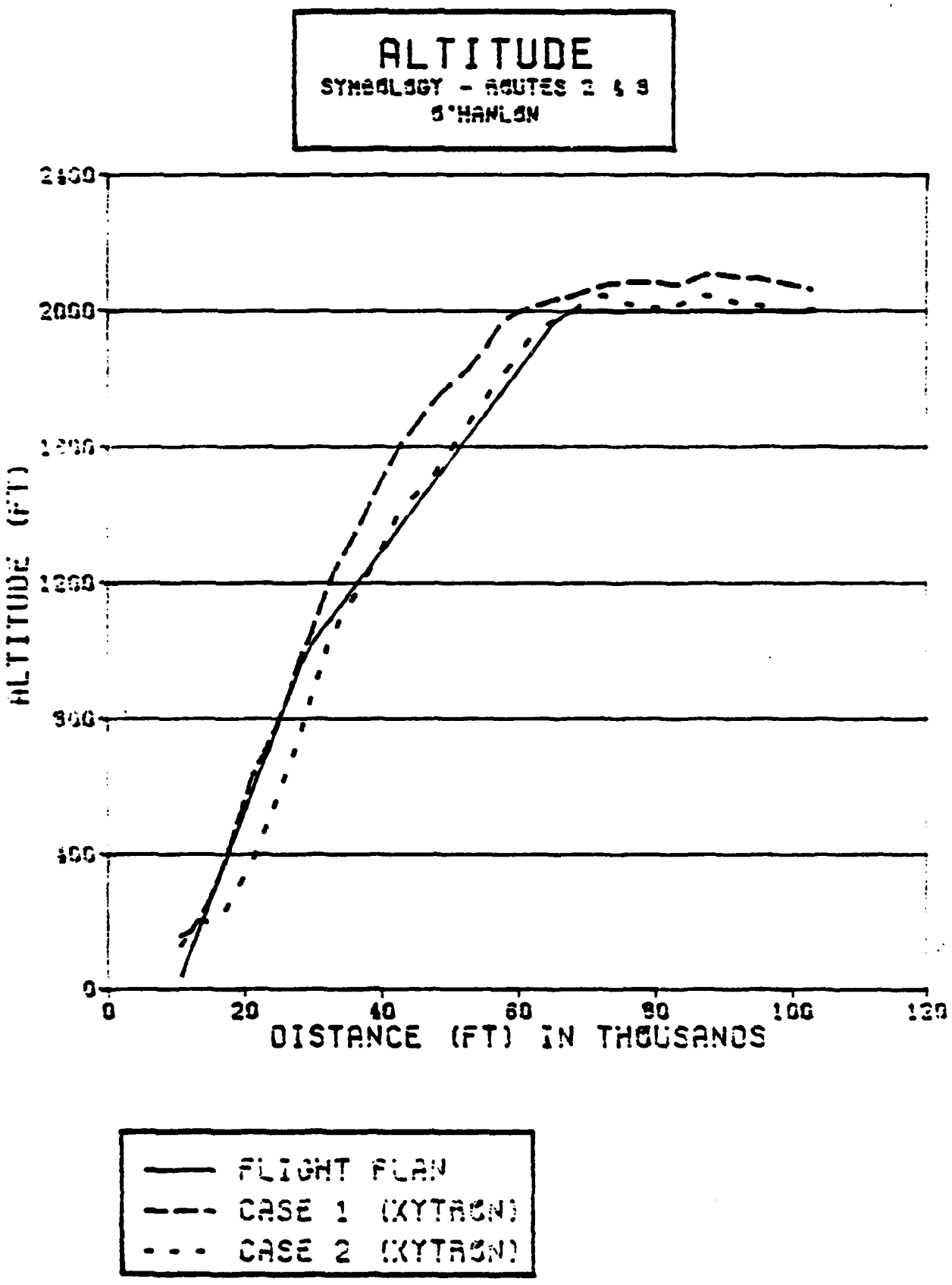
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

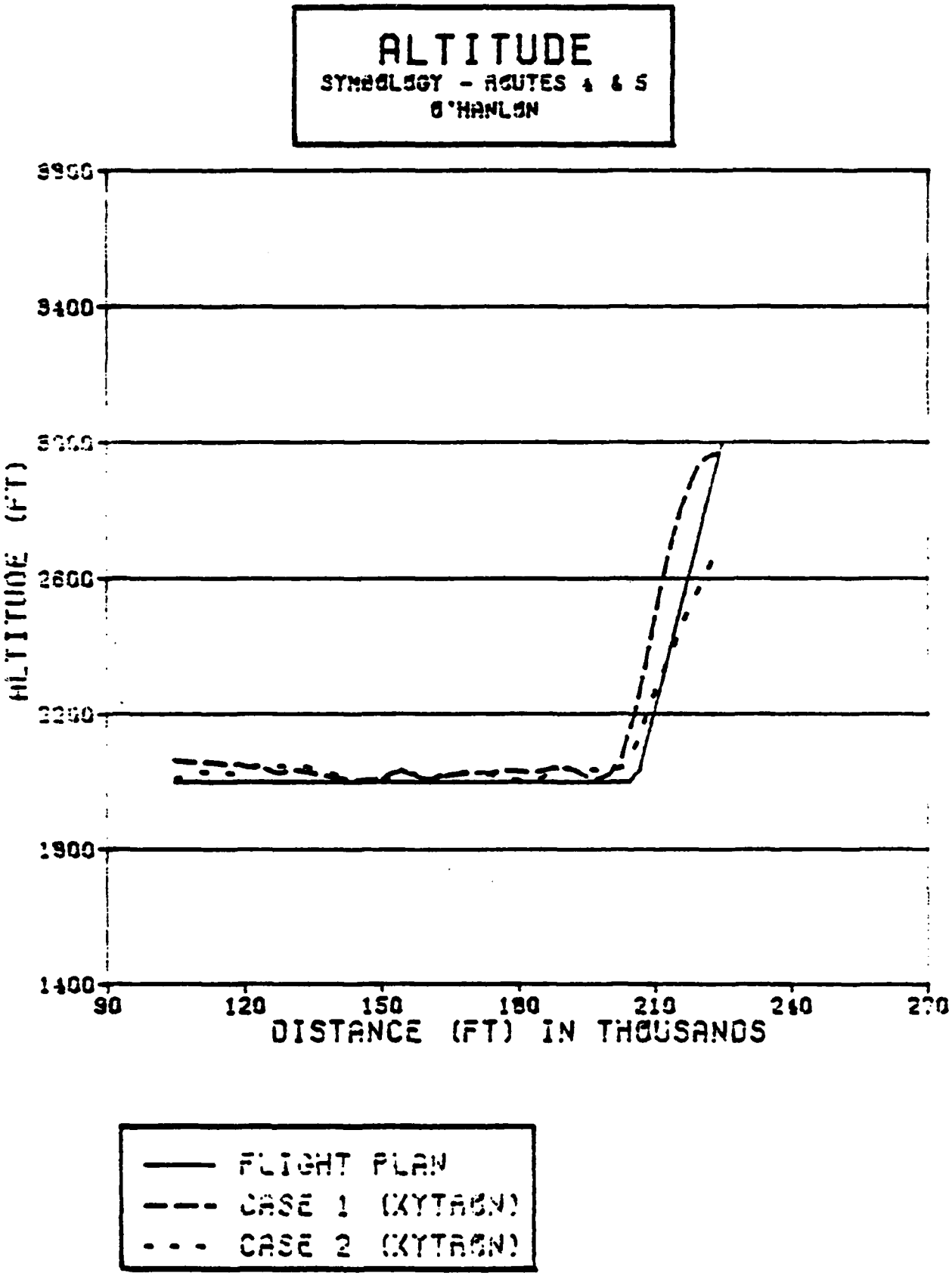

ALTITUDE
CFPO - ROUTES 6 & 7
O'HANLON
ALTITUDE (FT)
3600
3200
2800
2400
2000
1600
220
240
260
280
300
320
340
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)
CASE 2 (XYTRON)

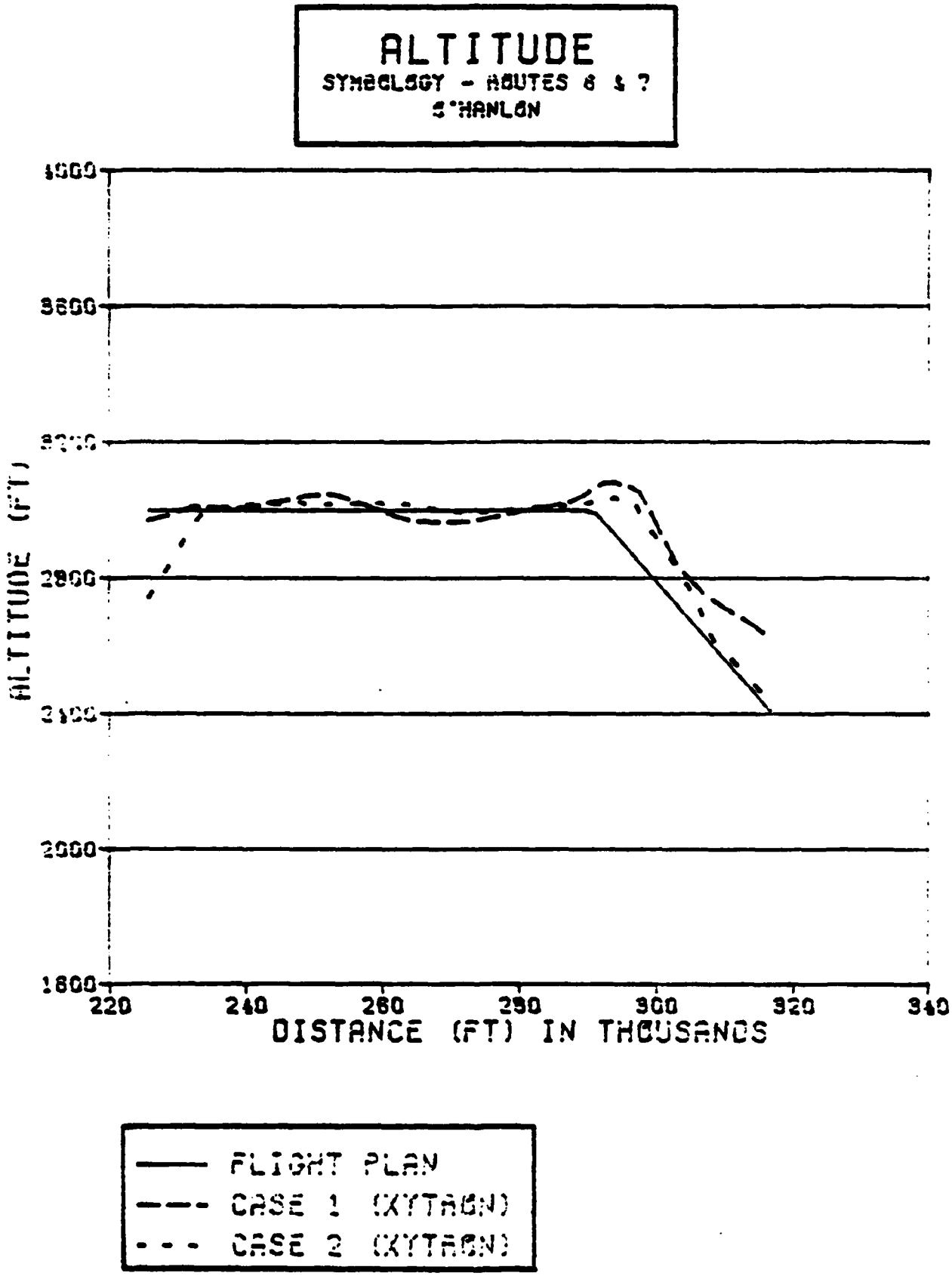

ALTITUDE
CFPO - ROUTES 8 & 9
O'HANLON
3000
2600
2200
1800
1400
1000
600
ALTITUDE (FT)
300
320
340
360
380
400
420
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (KYTRON)
CASE 2 (KYTRON)

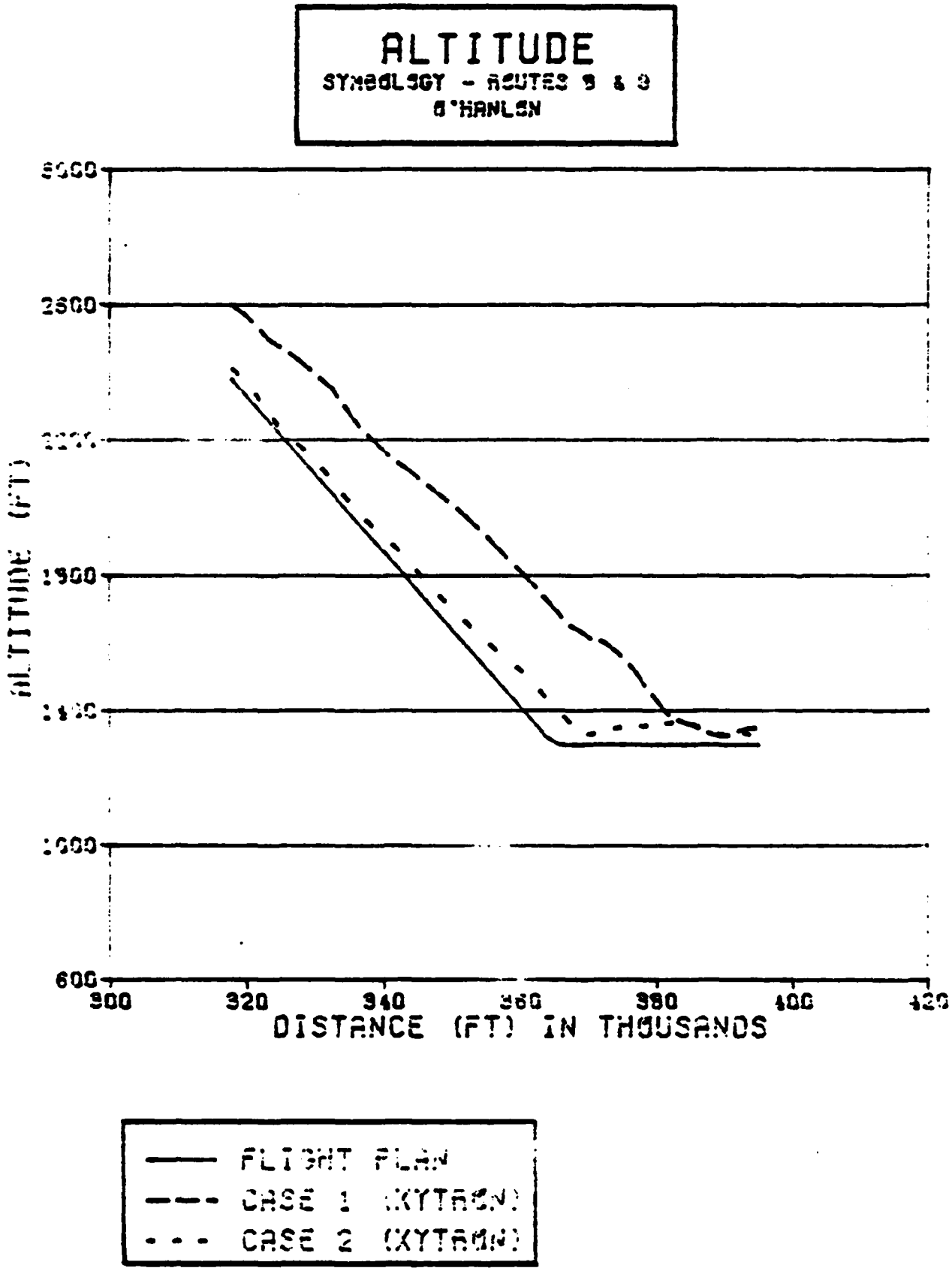

ALTITUDE
CFPO - ROUTES 10 & 11
S'HANLON
1800
1000
200
-200
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)
CASE 2 (XYTRON)

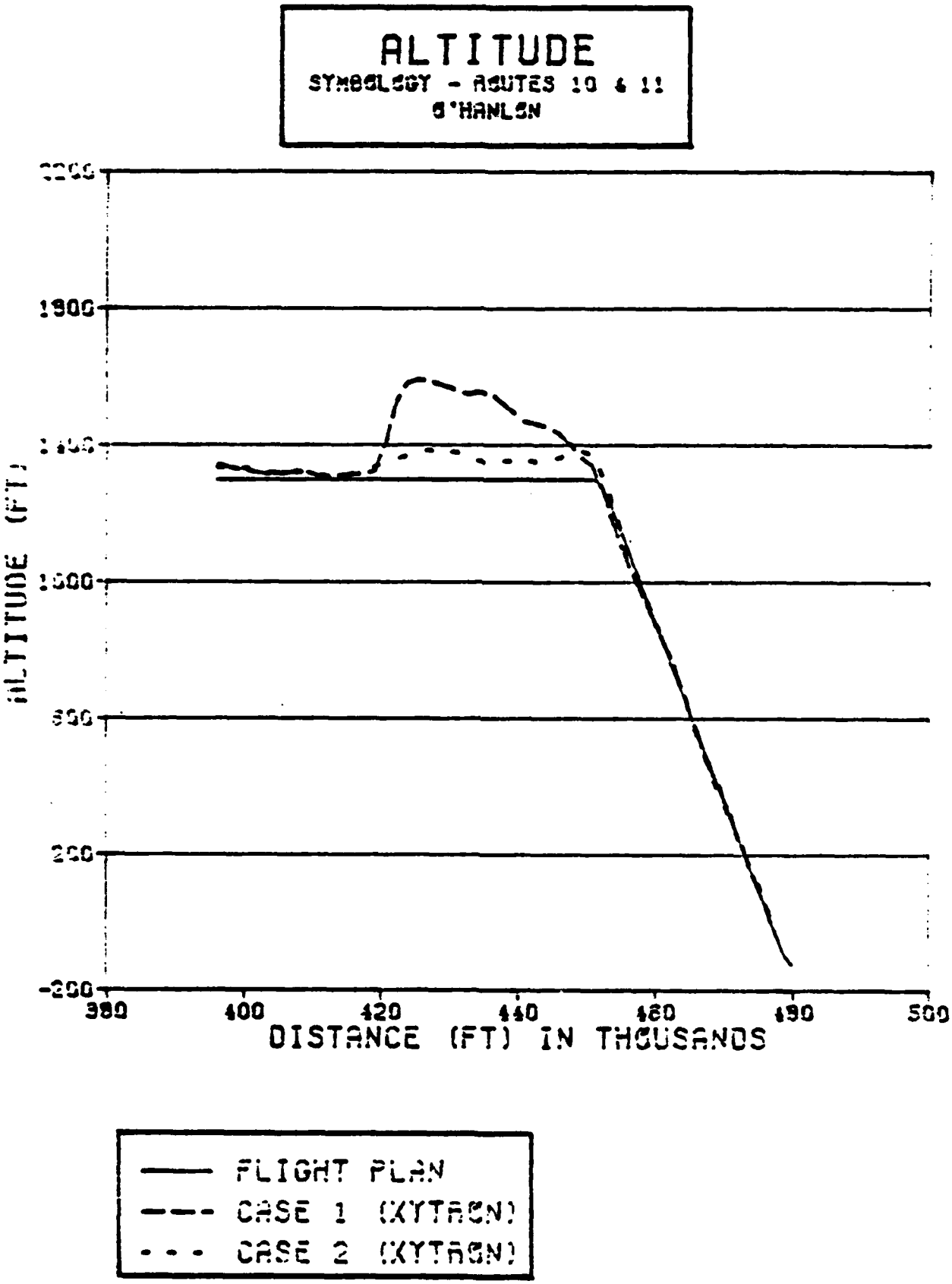

ALTITUDE
CFPO - NIAGARA 25R
O'HANLON
2400
1600
1200
400
ALTITUDE (FT)
72
80
88
96
104
112
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (KYTRON)
CASE 2 (KYTRON)

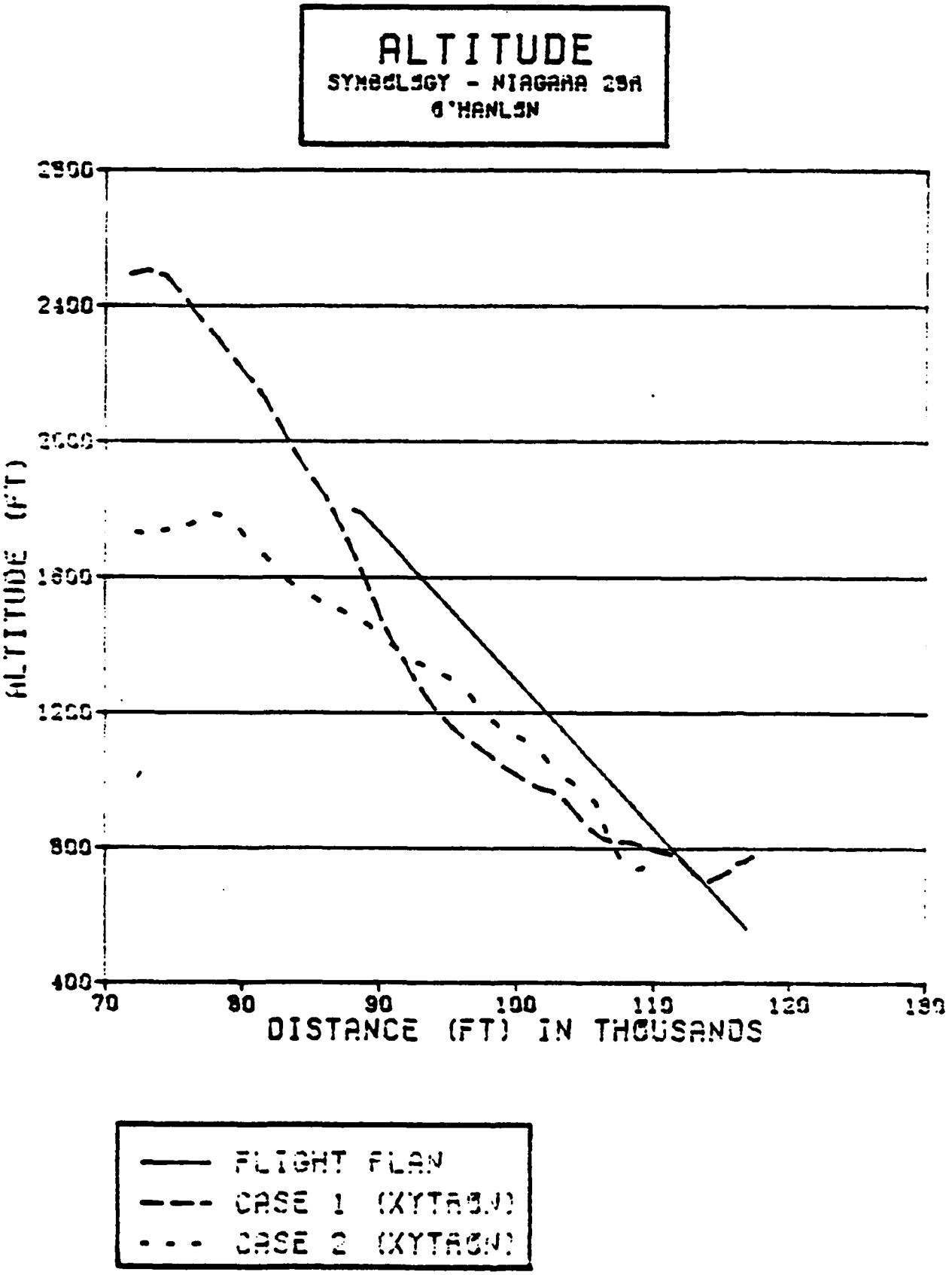

ALTITUDE
SYMBOLOGY - ROUTES 2 & 3
O'HANLON
2400
2000
1600
1200
800
400
0
ALTITUDE (FT)
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)
CASE 2 (XYTRON)

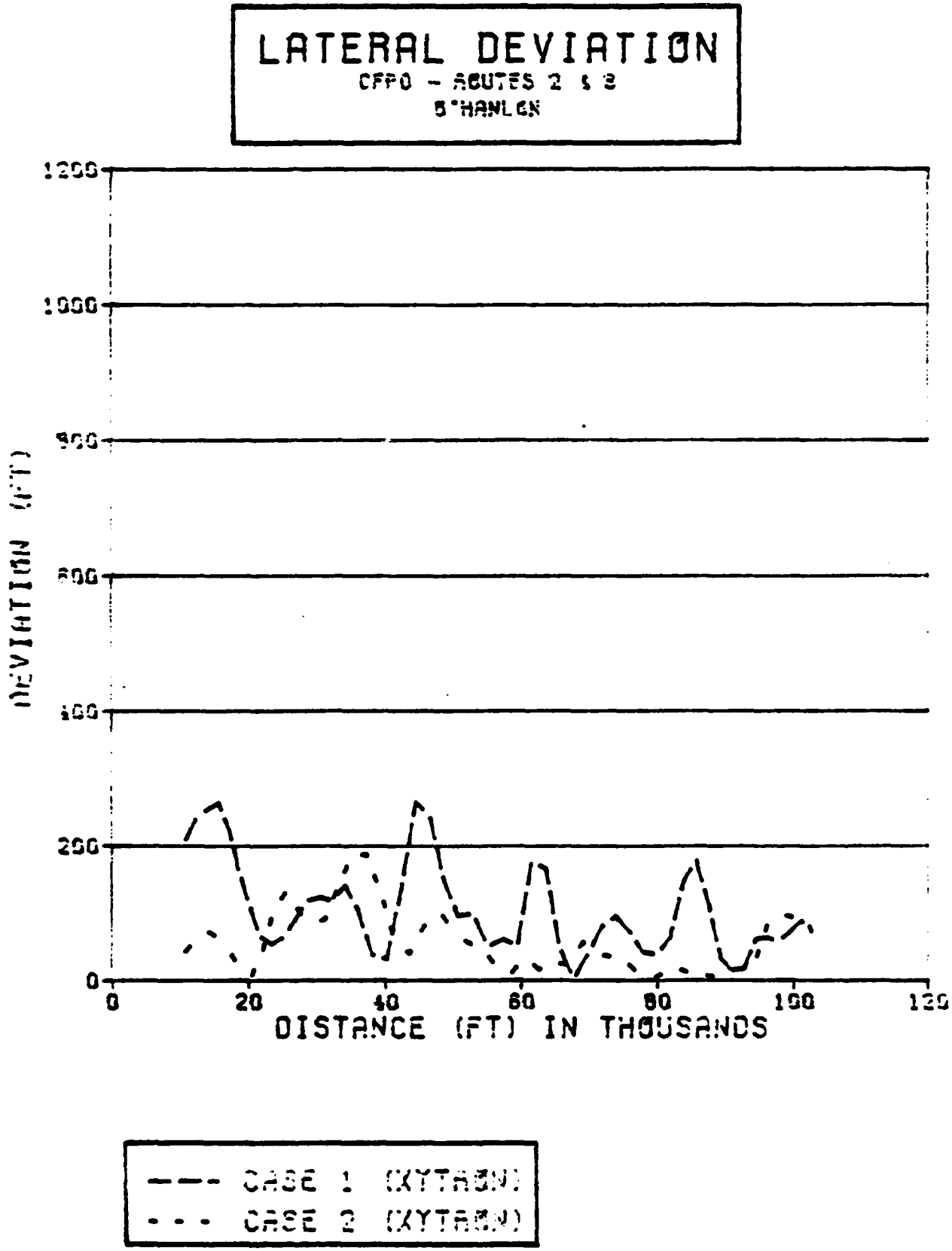

ALTITUDE
SYMBOLOGY - ROUTES 4 & 5
O'HANLON
3400
2600
1900
1400
ALTITUDE (FT)
90
120
150
180
210
240
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)
CASE 2 (XYTRON)

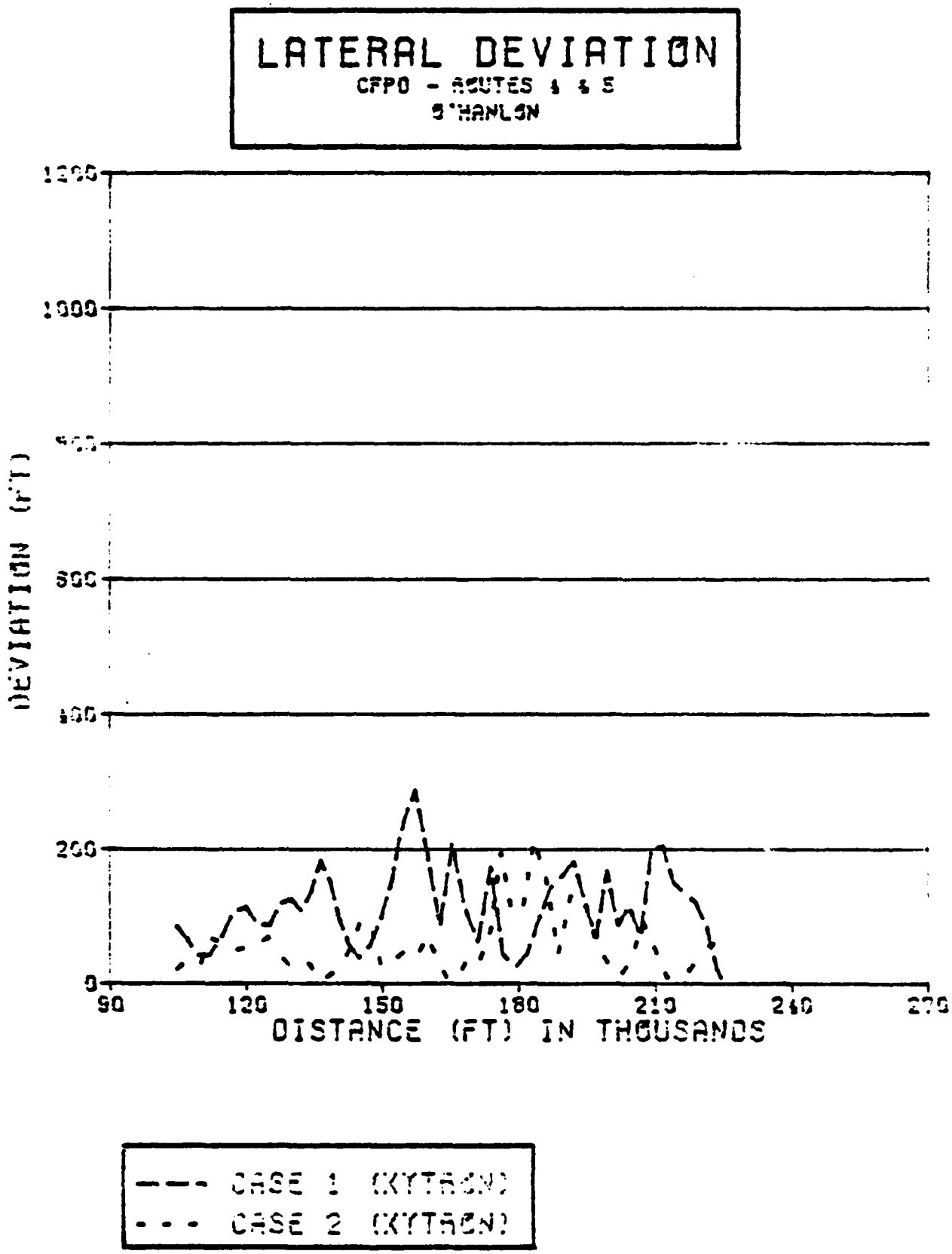

ALTITUDE
SYMBOLOGY - ROUTES 6 & 7
O'HANLON
ALTITUDE (FT)
3600
2800
2000
1600
220
240
260
280
300
320
340
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)
CASE 2 (XYTRON)

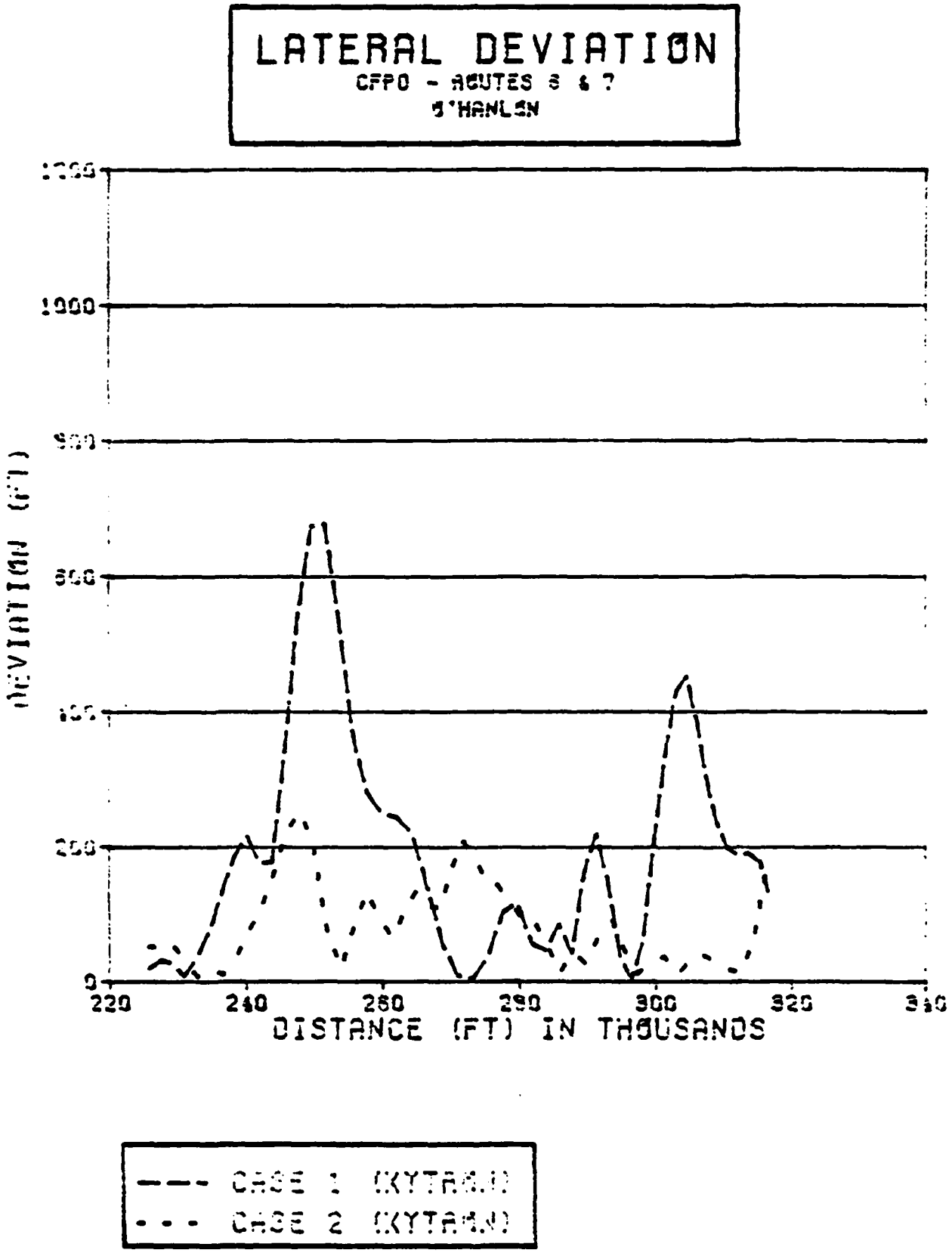

ALTITUDE
SYMBOLOGY - ROUTES 8 & 9
O'HANLON
2600
1800
1000
600
ALTITUDE (FT)
300
320
340
360
380
400
420
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)
CASE 2 (XYTRON)

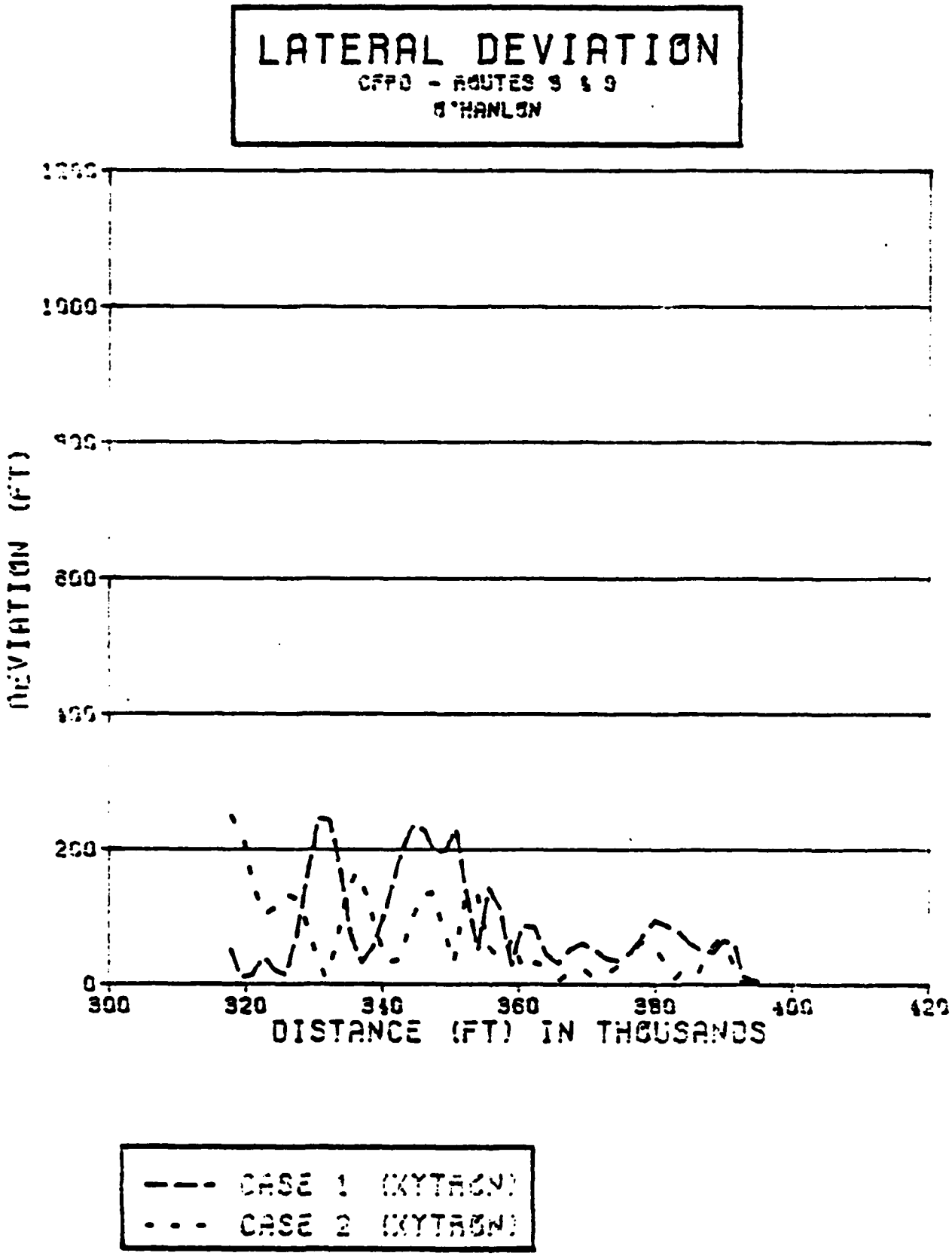

ALTITUDE
SYMBOLOGY - ROUTES 10 & 11
O'HANLON
2200
1900
1600
1300
1000
600
200
-200
ALTITUDE (FT)
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)
CASE 2 (XYTRON)

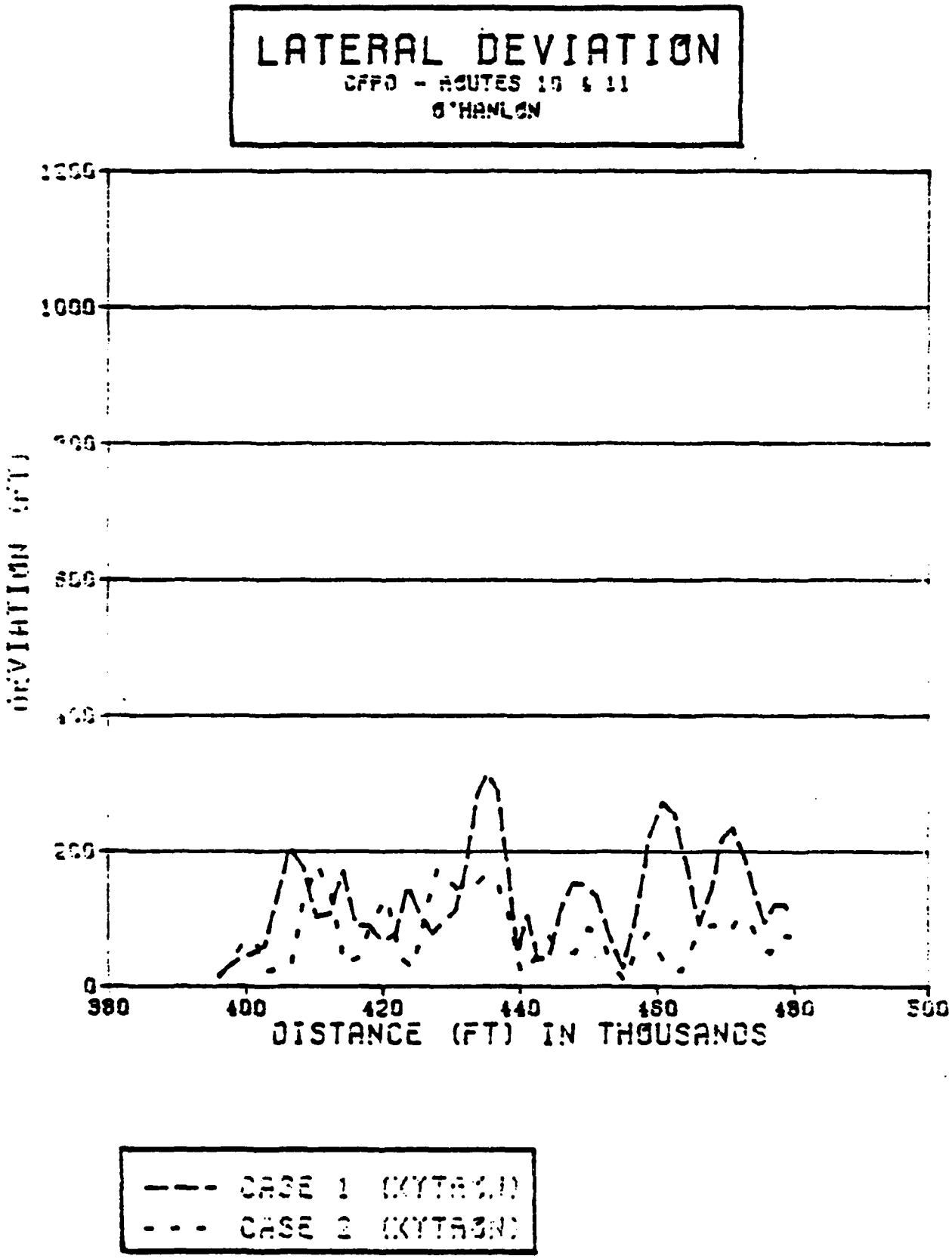

ALTITUDE
SYMBOLOGY - NIAGARA 29A
O'HANLON
2800
2400
2000
1600
1200
800
400
ALTITUDE (FT)
70
80
90
100
110
120
130
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)
CASE 2 (XYTRON)

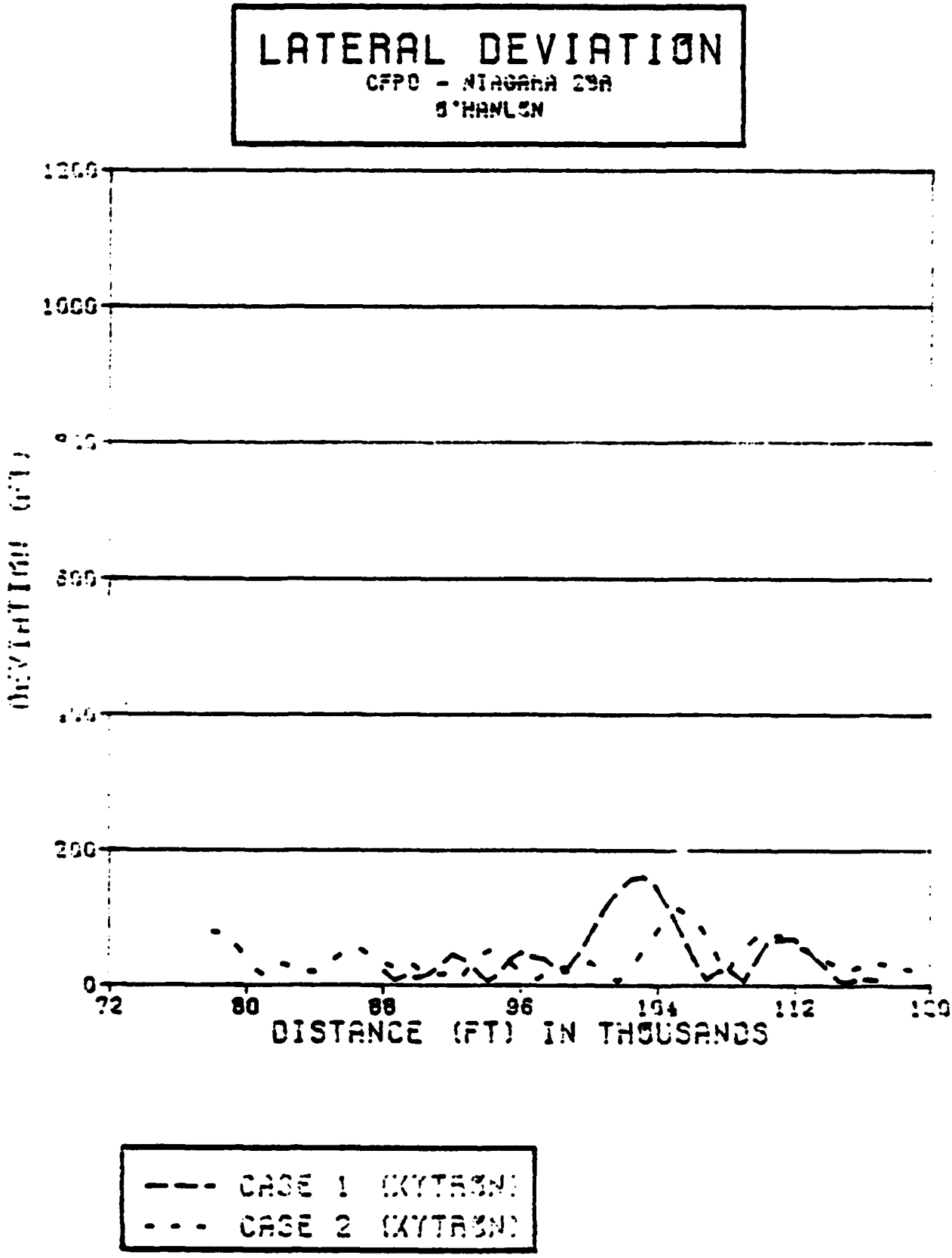

LATERAL DEVIATION
CFPO - ROUTES 2 & 3
STANLEY
DEVIATION (FT)
1200
1000
800
600
400
200
0
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
CASE 1 (XYTRON)
CASE 2 (XYTRON)

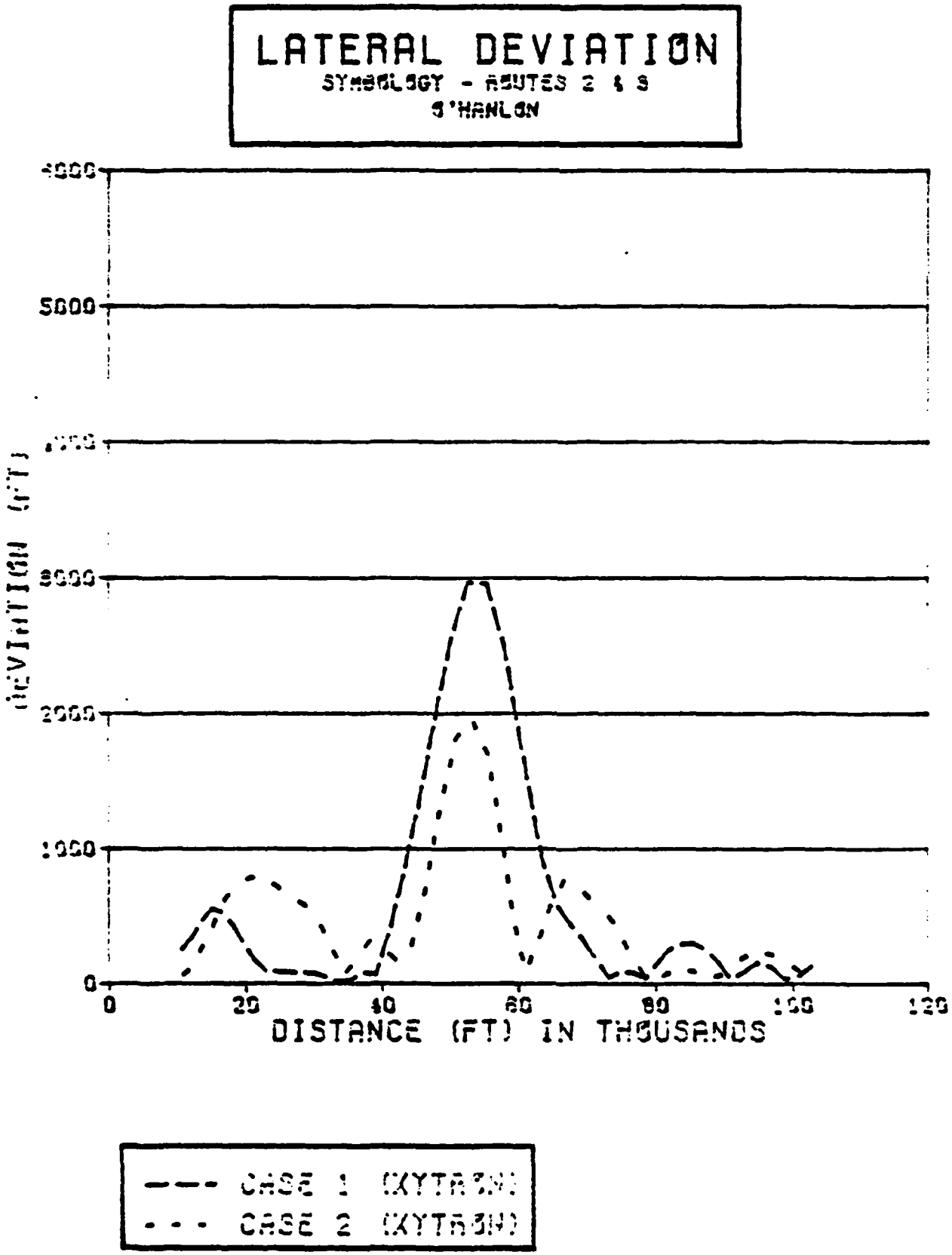

LATERAL DEVIATION
CFPO - ROUTES 4 & 5
O'HANLON
DEVIATION (FT)
1200
1000
800
600
400
200
0
90
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
CASE 1 (KYTRON)
CASE 2 (KYTRON)

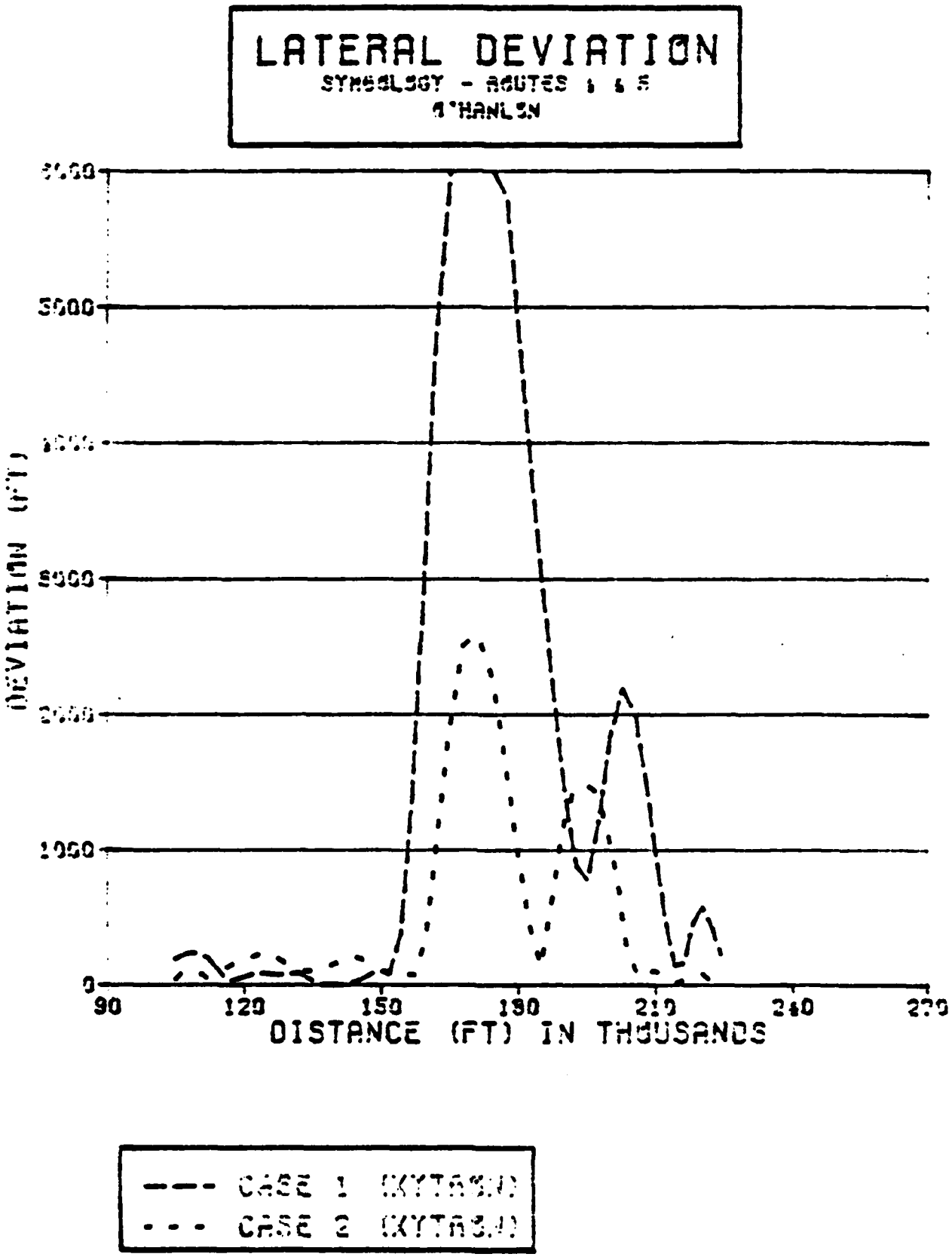

LATERAL DEVIATION
CFPD - ROUTES 6 & 7
O'HANLON
DEVIATION (FT)
1000
0
220
240
260
280
300
320
340
DISTANCE (FT) IN THOUSANDS
CASE 1 (KYTRAN)
CASE 2 (KYTRAN)

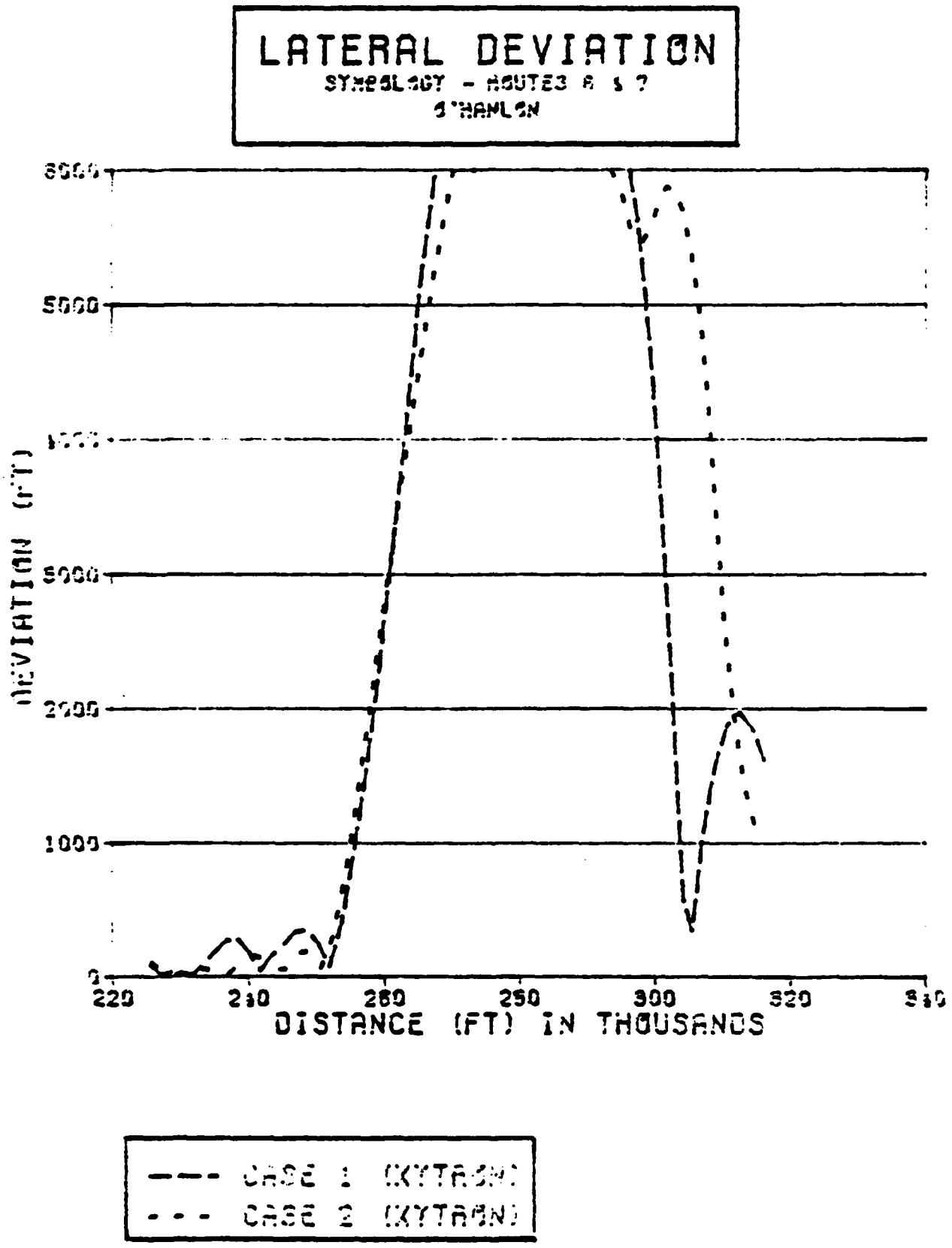

LATERAL DEVIATION
CFPO - ROUTES 9 & 9
O'HANLON
DEVIATION (FT)
1000
200
0
300
320
360
400
420
DISTANCE (FT) IN THOUSANDS
CASE 1 (KYTRON)
CASE 2 (KYTRON)

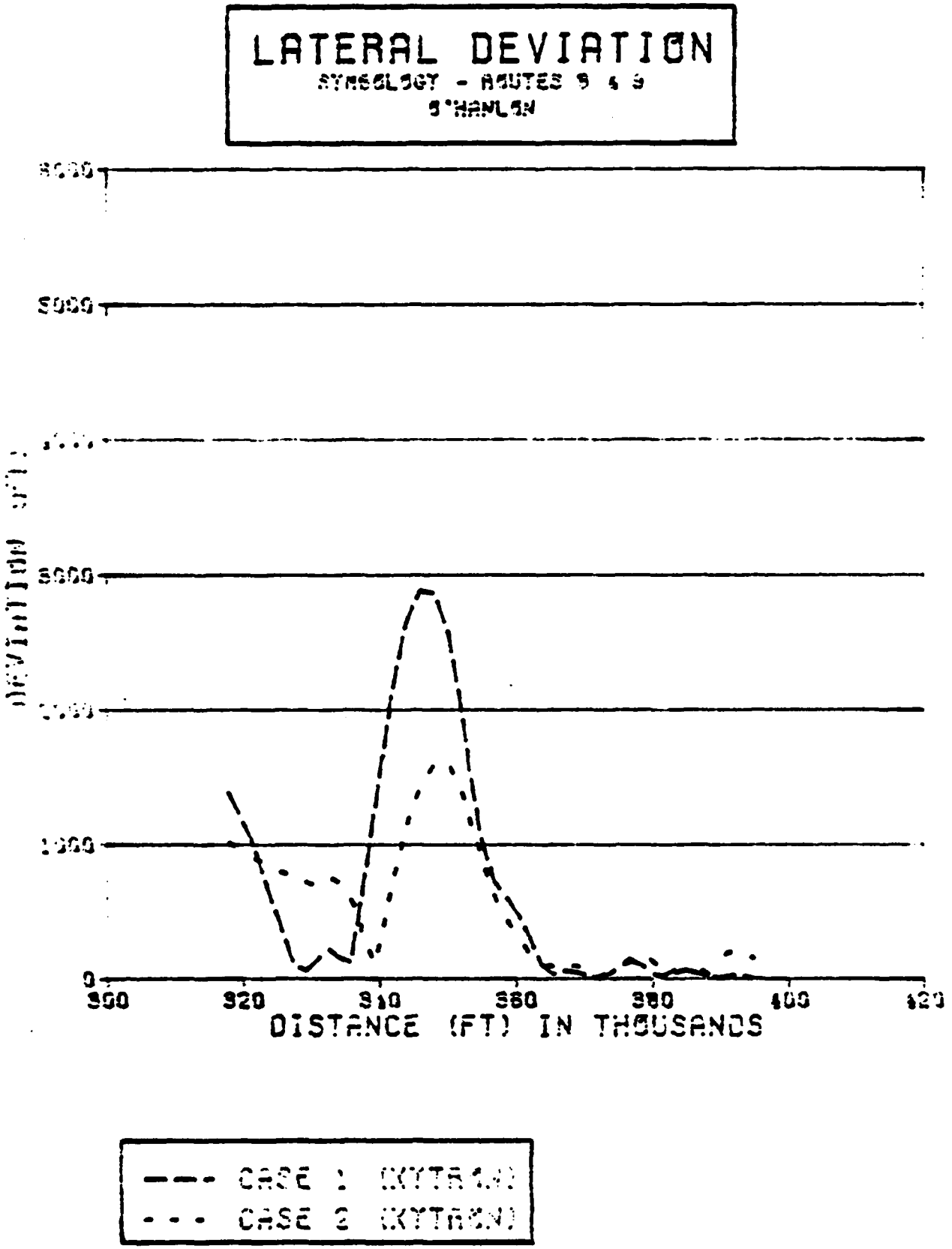

LATERAL DEVIATION
CFPD - ROUTES 10 & 11
O'HANLON
1000
0
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
CASE 1 (KYTRAN)
CASE 2 (KYTRAN)

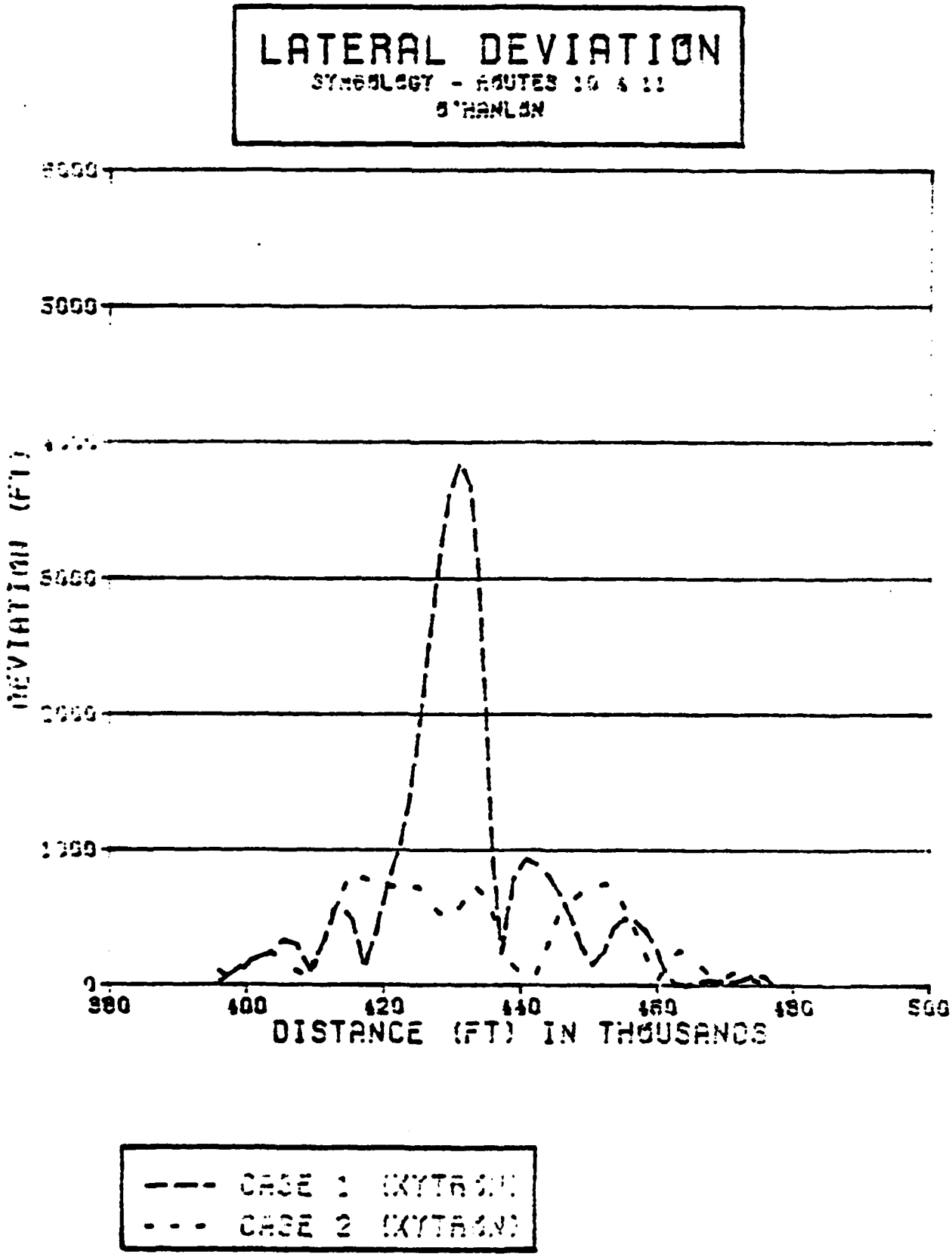

LATERAL DEVIATION
CFPO - NIAGARA 29A
O'HANLON
1000
200
0
72
80
88
96
104
112
DISTANCE (FT) IN THOUSANDS
CASE 1 (XYTRON)
CASE 2 (XYTRON)

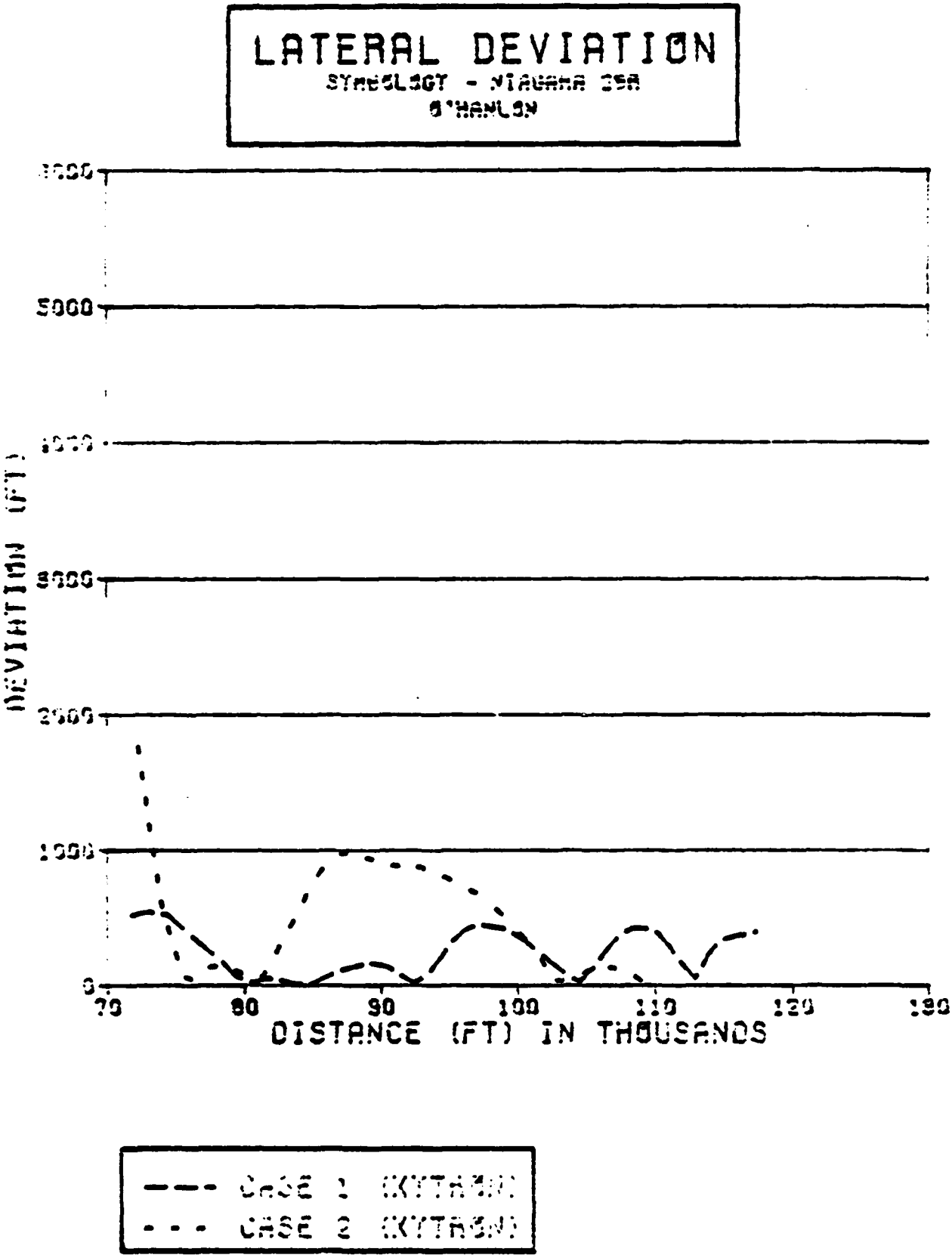

LATERAL DEVIATION
SYMBOLOGY - ROUTES 2 & 3
O'HANLON
5000
3000
2000
1000
0
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
CASE 1 (XYTRON)
CASE 2 (XYTRON)

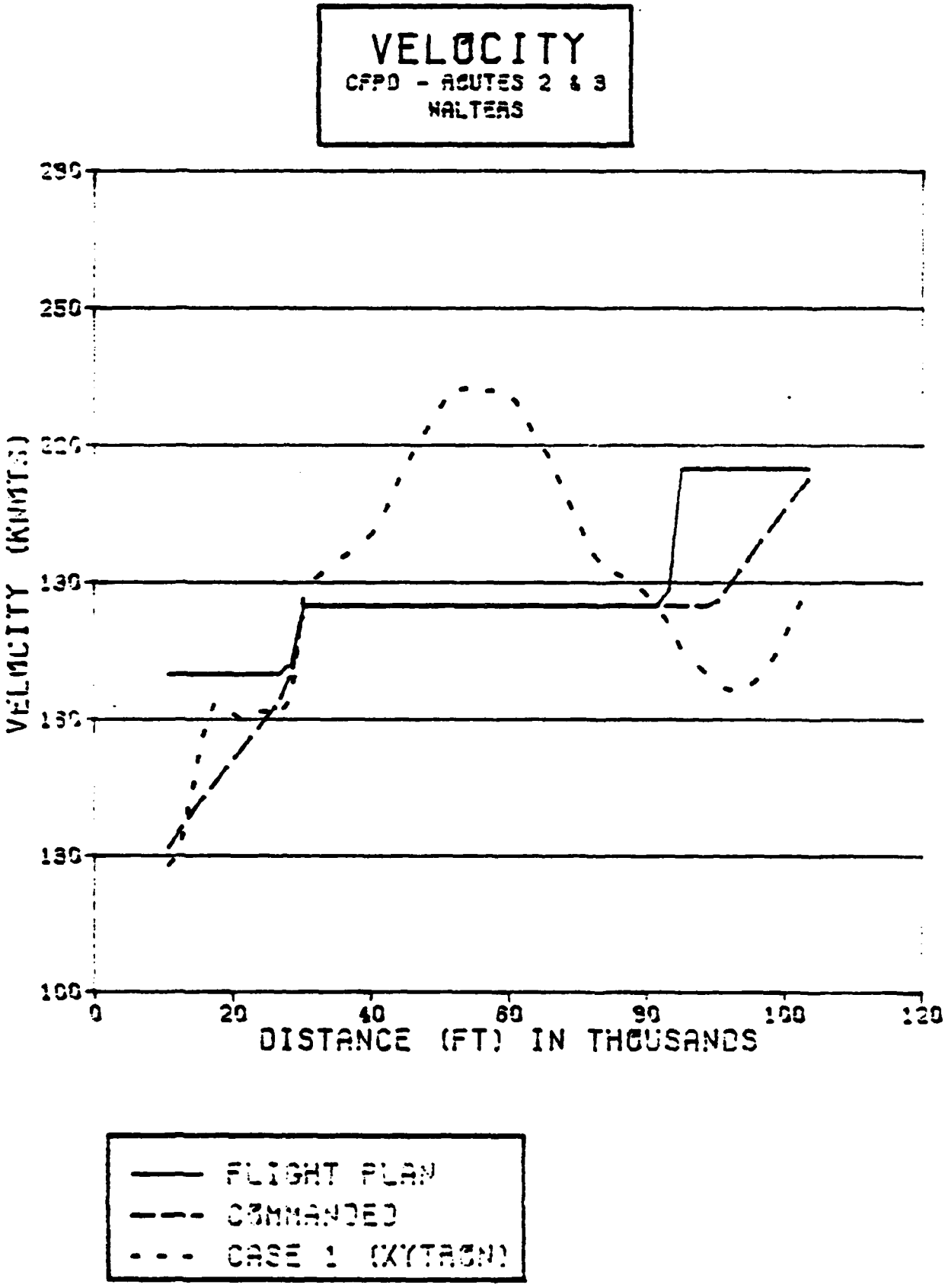

LATERAL DEVIATION
SYMBOLOGY - ROUTES 1 & 5
O'HANLON
DEVIATION (FT)
5000
1000
0
90
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
CASE 1 (XYTRON)
CASE 2 (XYTRON)

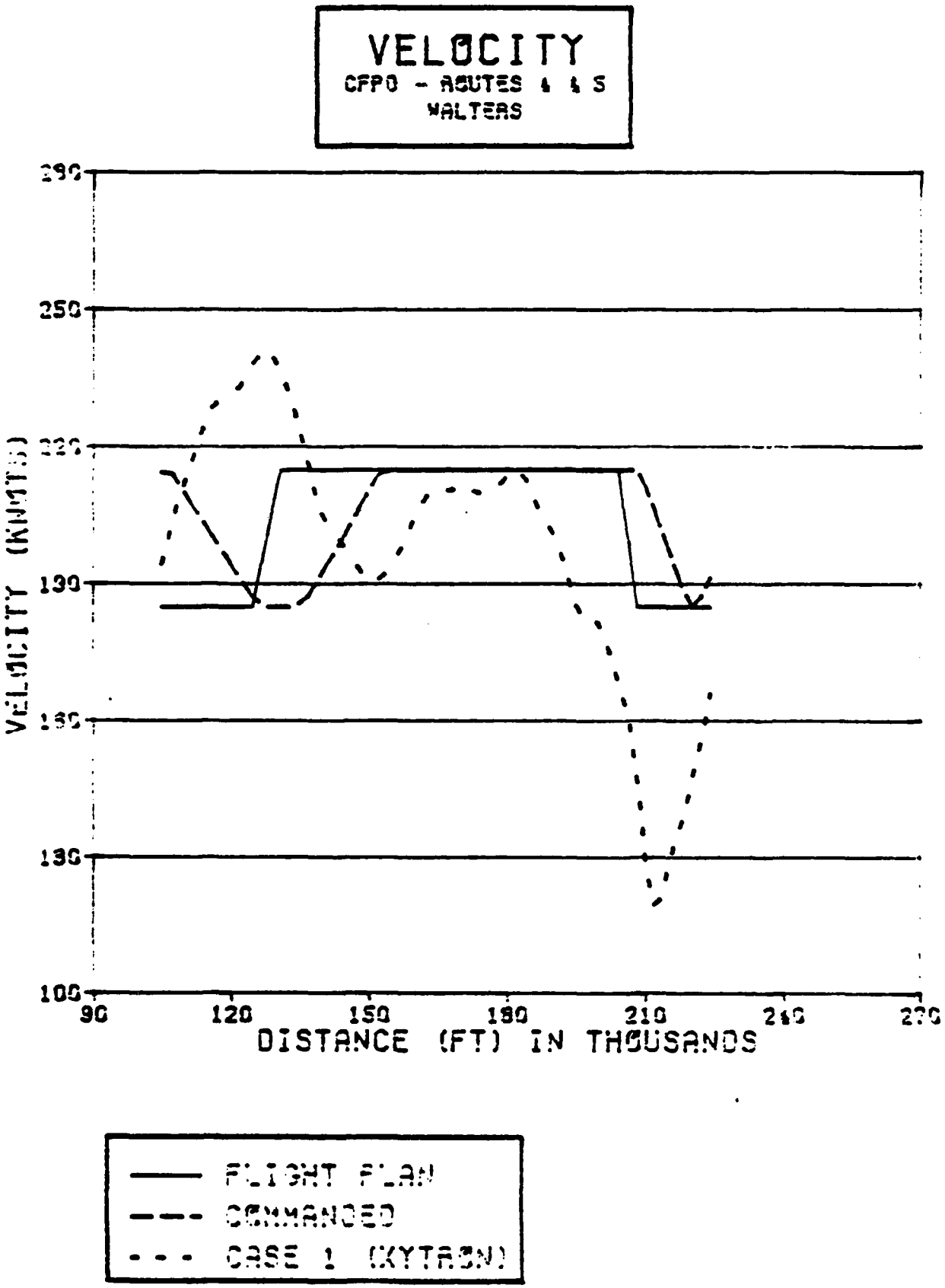

LATERAL DEVIATION
SYMBOLOGY - ROUTES 6 & 7
O'HANLON
DEVIATION (FT)
5000
1000
0
220
240
260
280
300
320
340
DISTANCE (FT) IN THOUSANDS
CASE 1 (KYTRON)
CASE 2 (KYTRON)

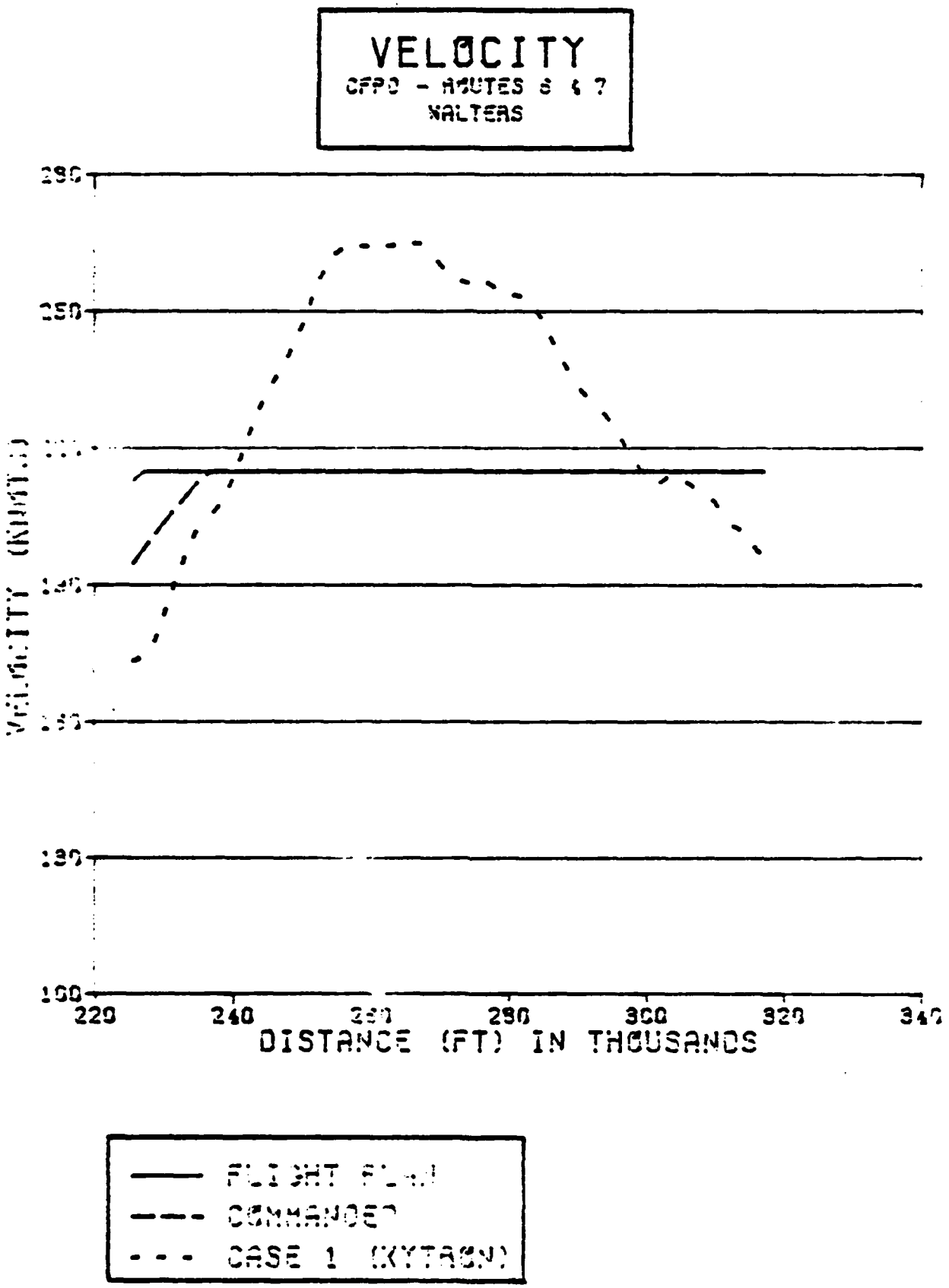

LATERAL DEVIATION
SYMBOLOGY - ROUTES 8 & 9
O'HANLON
DEVIATION (FT)
5000
3000
1000
0
300
320
340
360
380
400
420
DISTANCE (FT) IN THOUSANDS
CASE 1 (KYTRON)
CASE 2 (KYTRON)

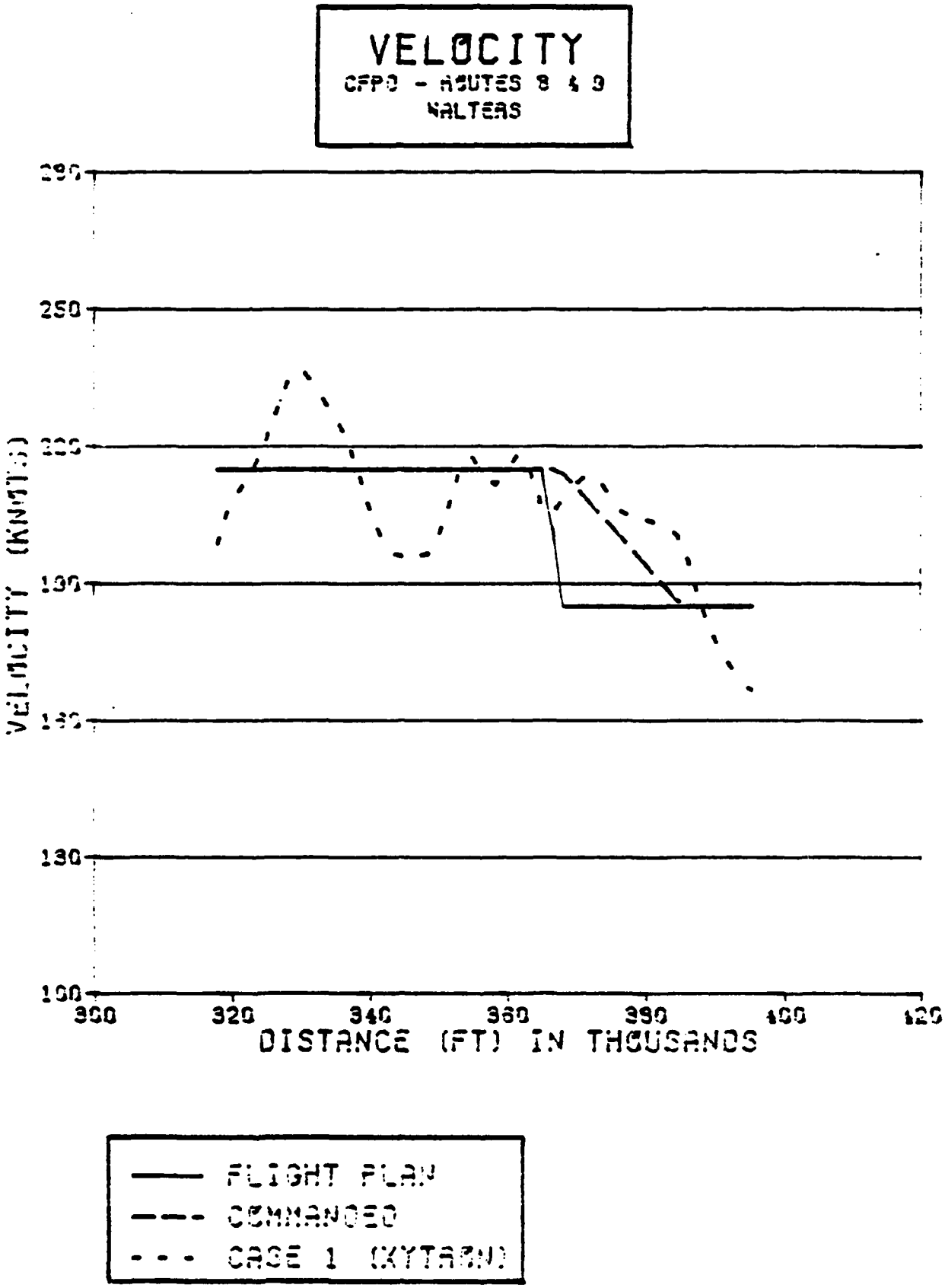

LATERAL DEVIATION
SYMBOLOGY - ROUTES 10 & 11
O'HANLON
DEVIATION (FT)
5000
3000
1000
0
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
CASE 1 (XYTRAN)
CASE 2 (XYTRAN)

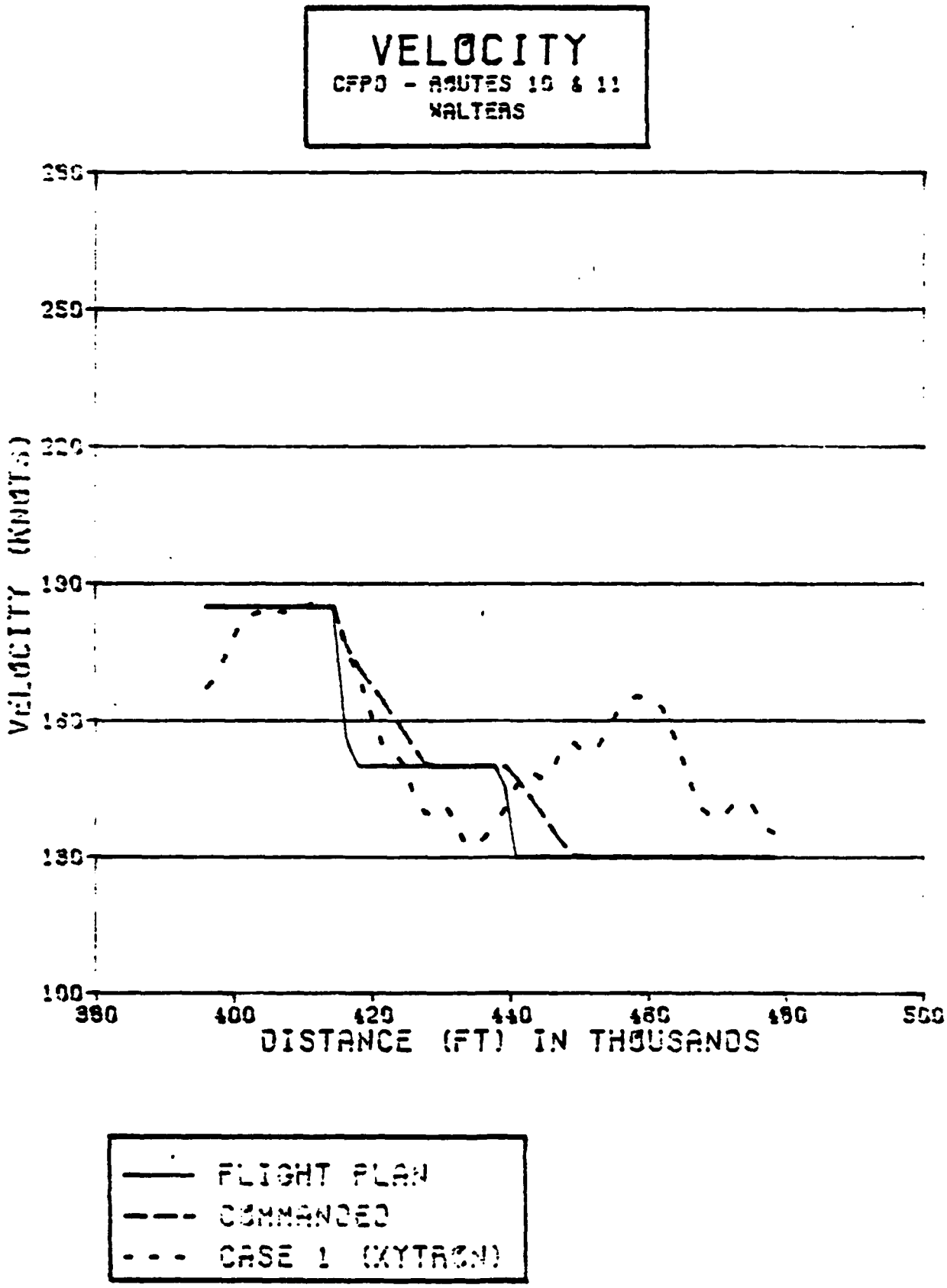

LATERAL DEVIATION
5000
0
70
80
90
100
110
120
130
DISTANCE (FT) IN THOUSANDS
CASE 1 (KYTRON)
CASE 2 (KYTRON)

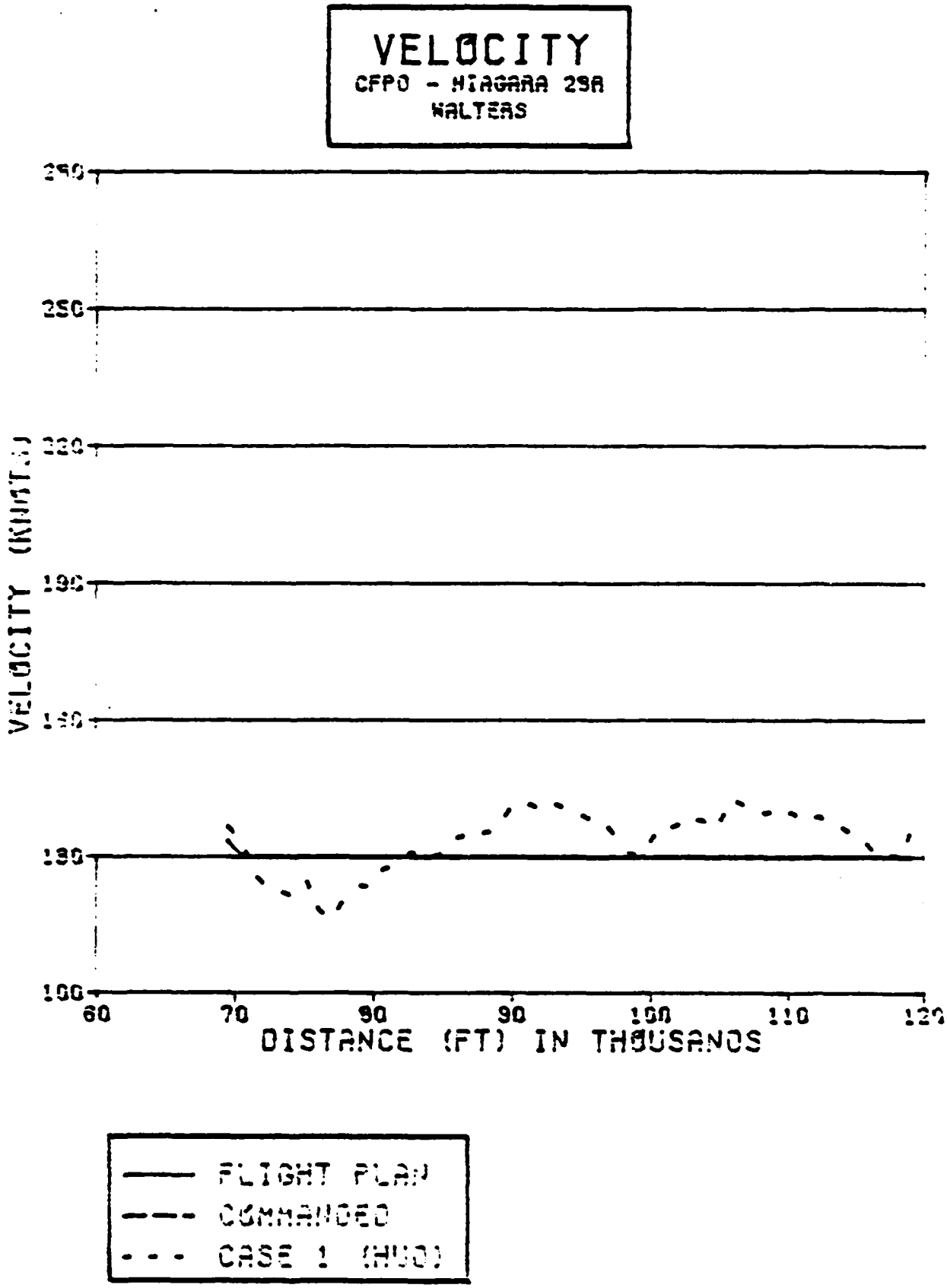

VELOCITY
CFPD - ACUTES 2 & 3
WALTERS
290
250
220
130
160
180
100
VELOCITY (KNOTS)
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 1 (XYTRON)

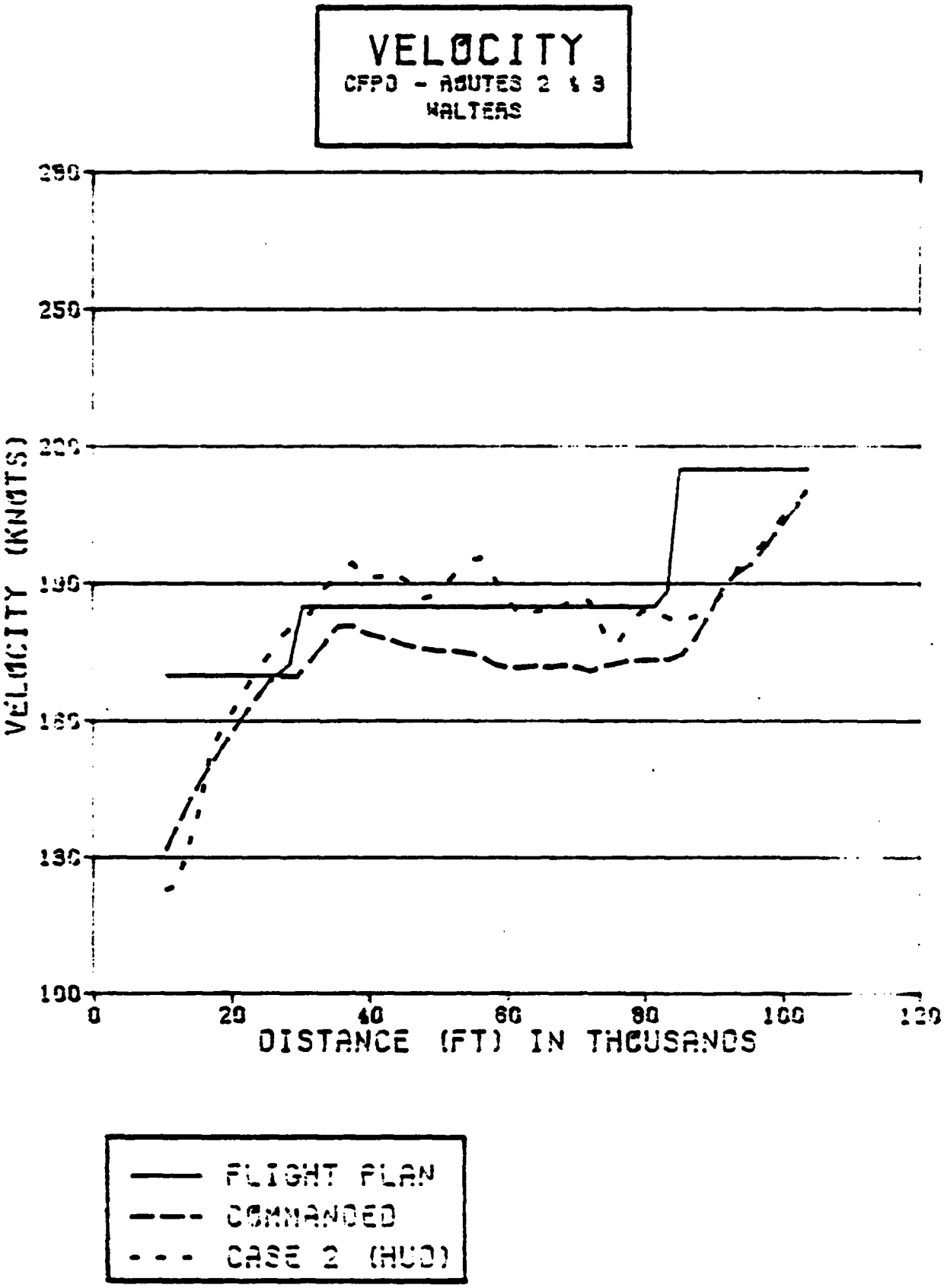

VELOCITY
CFPO - ROUTES 4 & 5
WALTERS
VELOCITY (KNOTS)
290
250
220
190
160
130
100
90
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 1 (XYTRON)

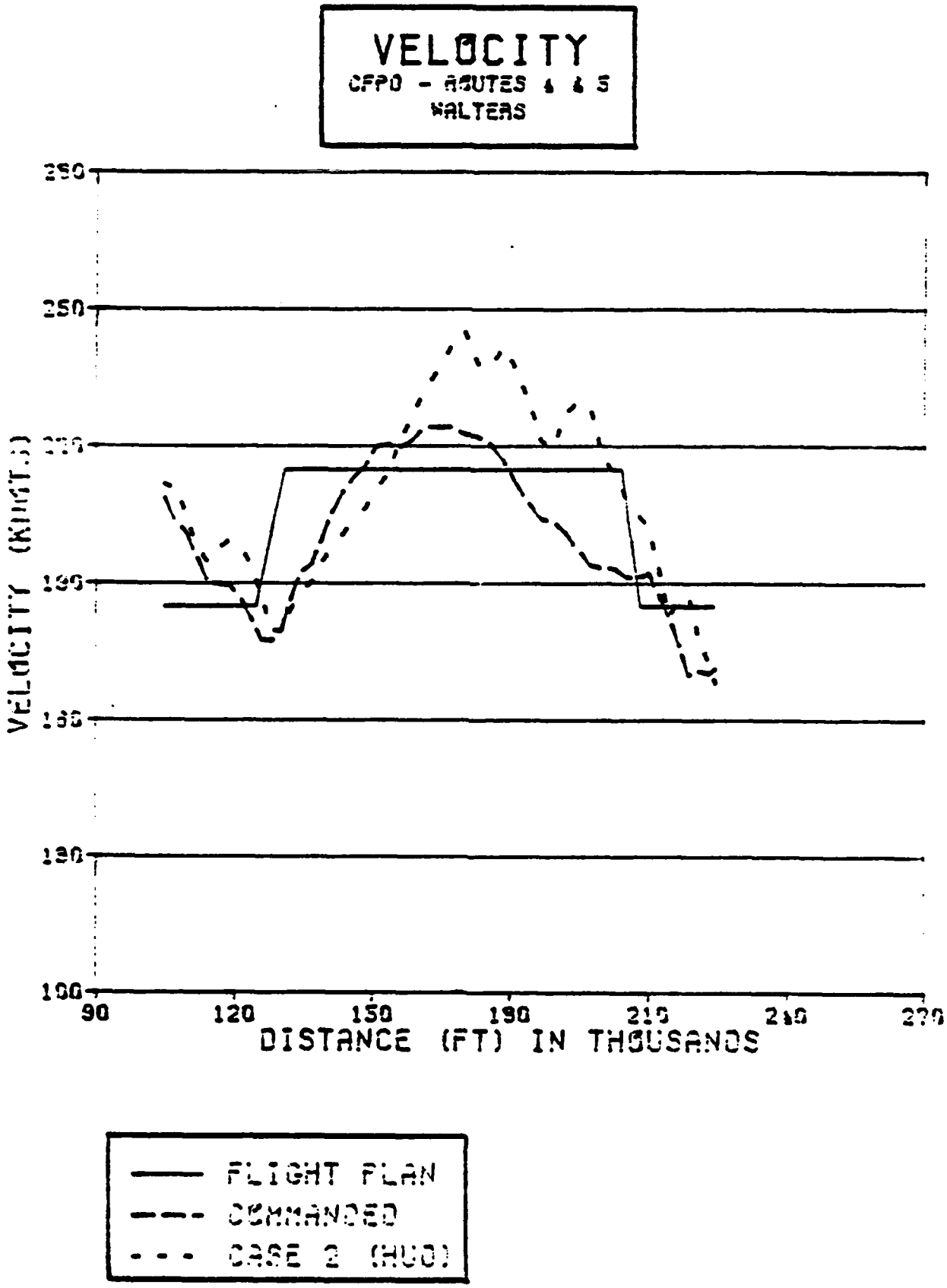

VELOCITY
CFPO - ROUTES 6 & 7
WALTERS
250
100
220
240
280
300
320
340
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDER
CASE 1 (KYTRON)

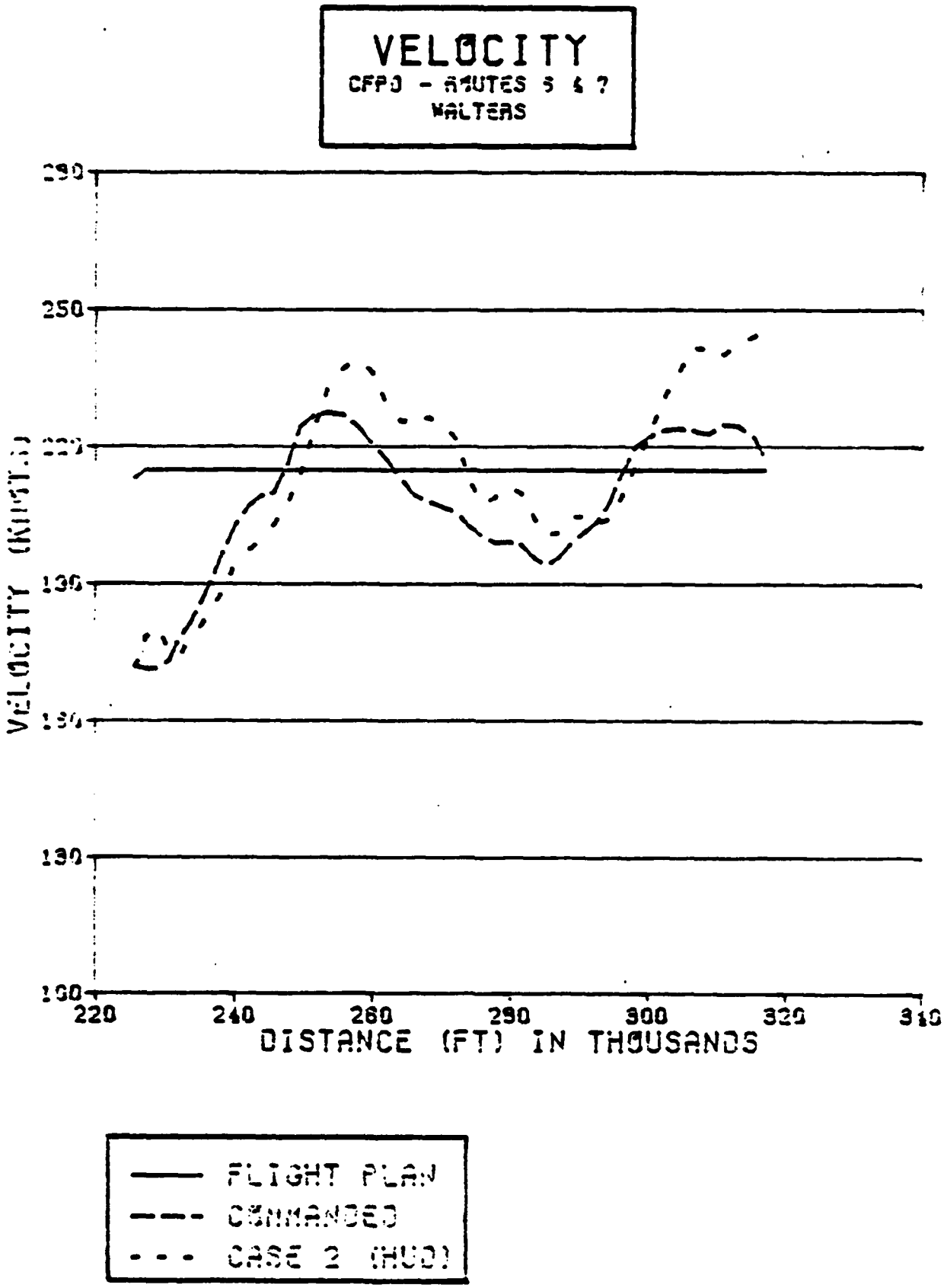

VELOCITY
CFPO - ROUTES 8 & 9
WALTERS
290
250
200
150
130
100
VELOCITY (KNOTS)
300
320
340
360
380
400
420
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 1 (KYTRON)

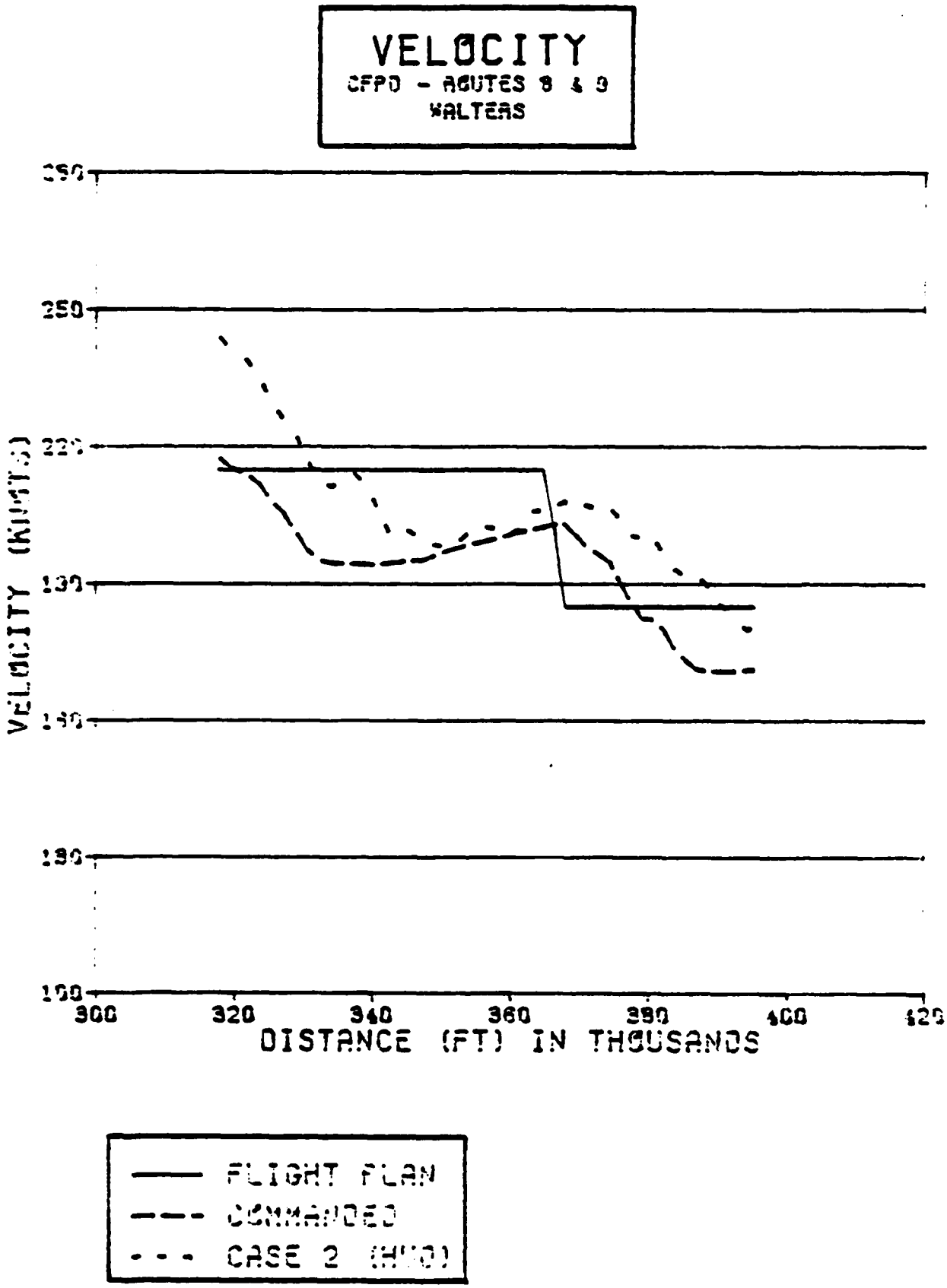

VELOCITY
CFPD - ROUTES 10 & 11
WALTERS
VELOCITY (KNOTS)
100
130
160
190
220
250
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 1 (XYTRON)

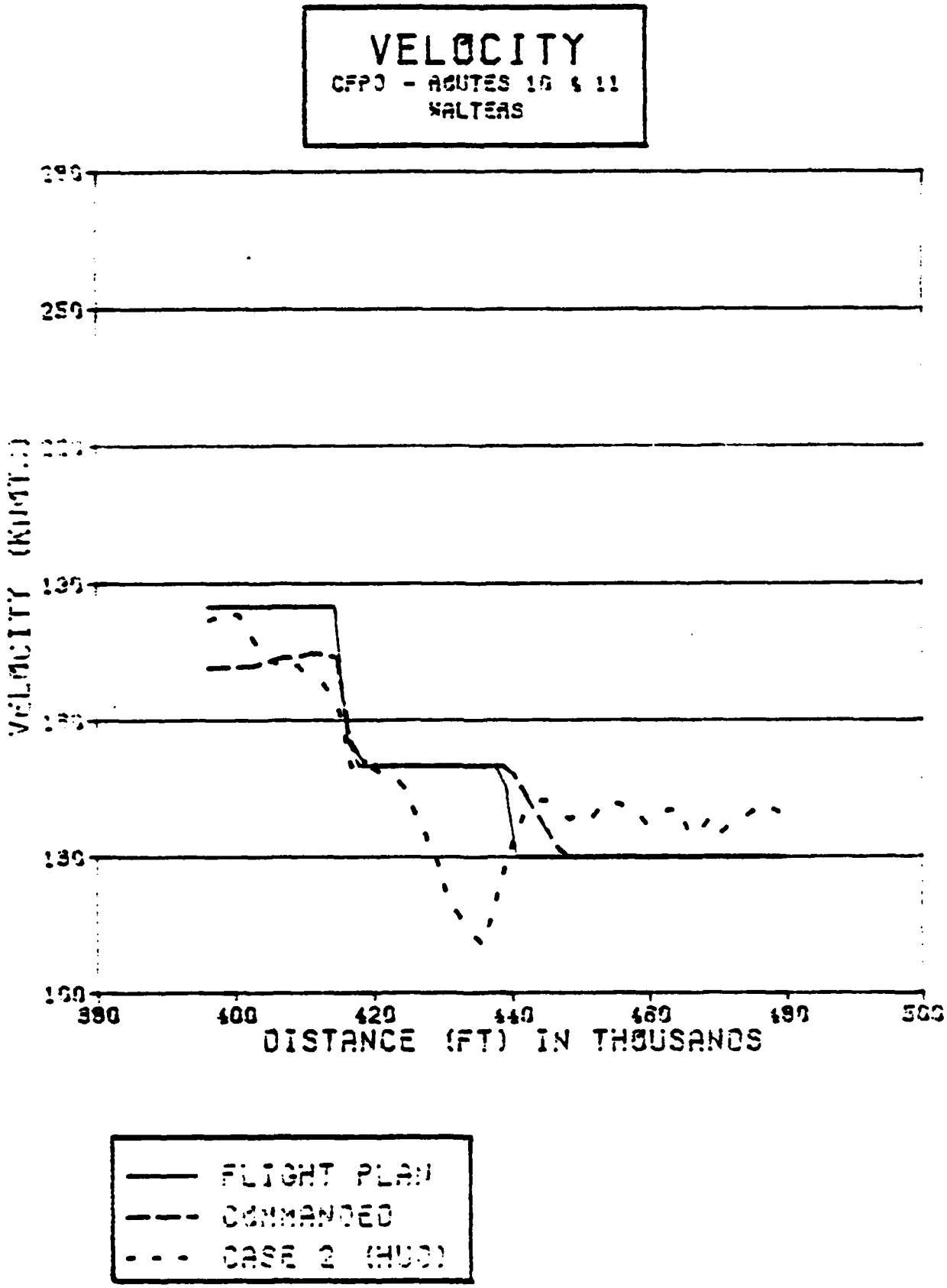

VELOCITY
CFPO - NIAGARA 29R
WALTERS
VELOCITY (KNOTS)
250
220
190
160
130
100
60
70
80
90
100
110
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 1 (HUD)

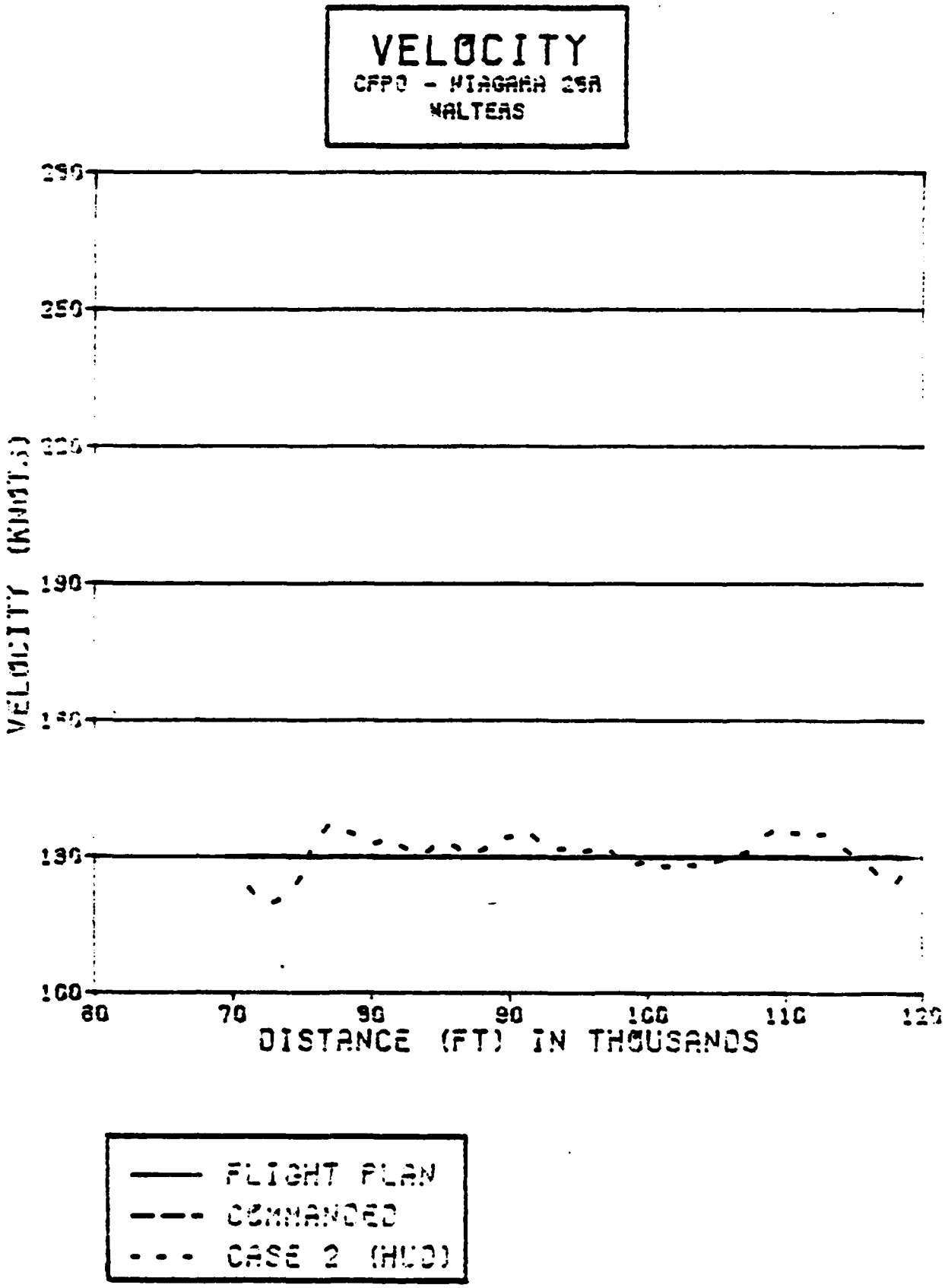

VELOCITY
CFPD - ROUTES 2 & 3
WALTERS
VELOCITY (KNOTS)
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 2 (HUD)

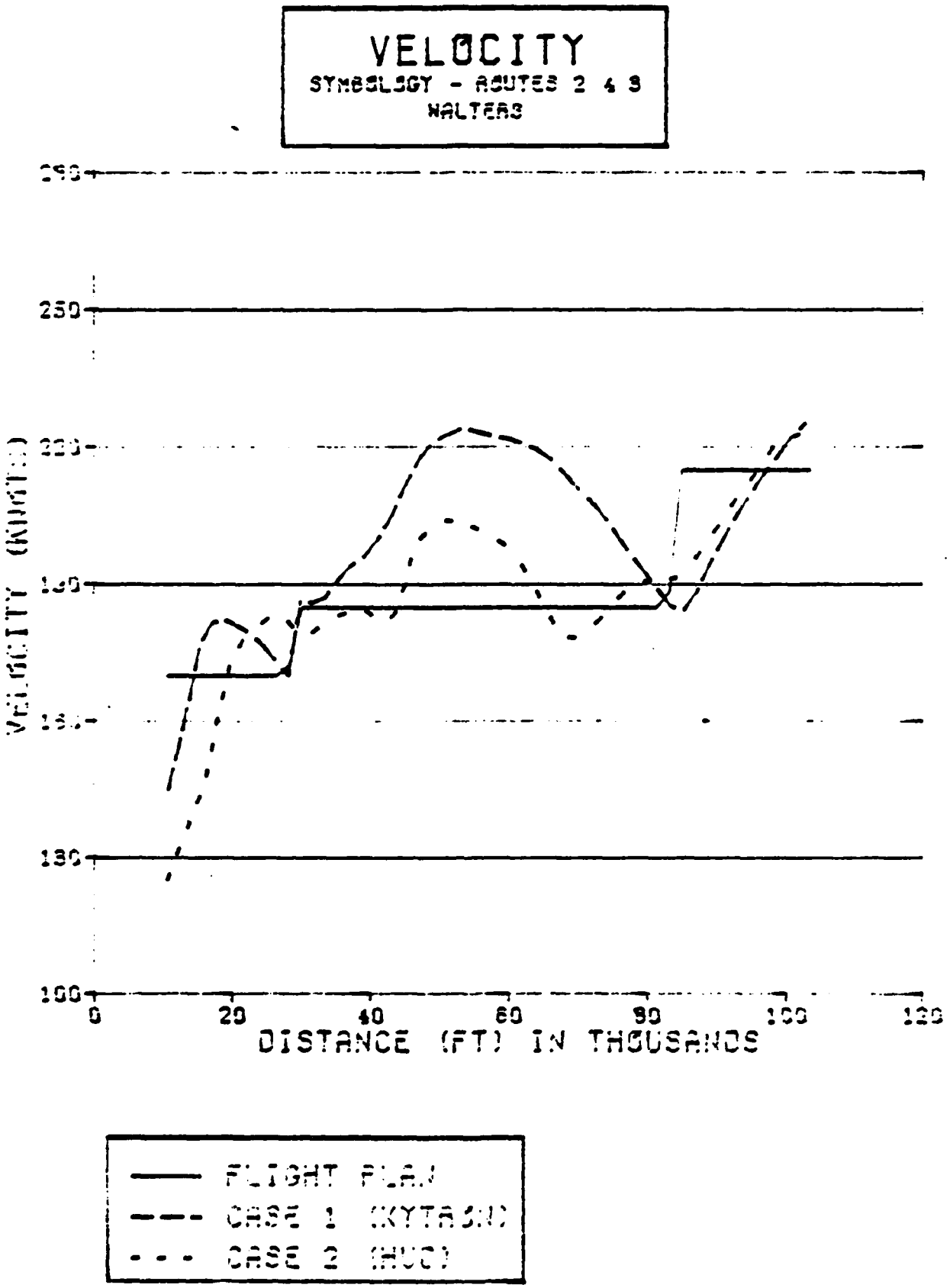

VELOCITY
CFPO - ROUTES 4 & 5
WALTERS
250
100
90
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 2 (HUD)

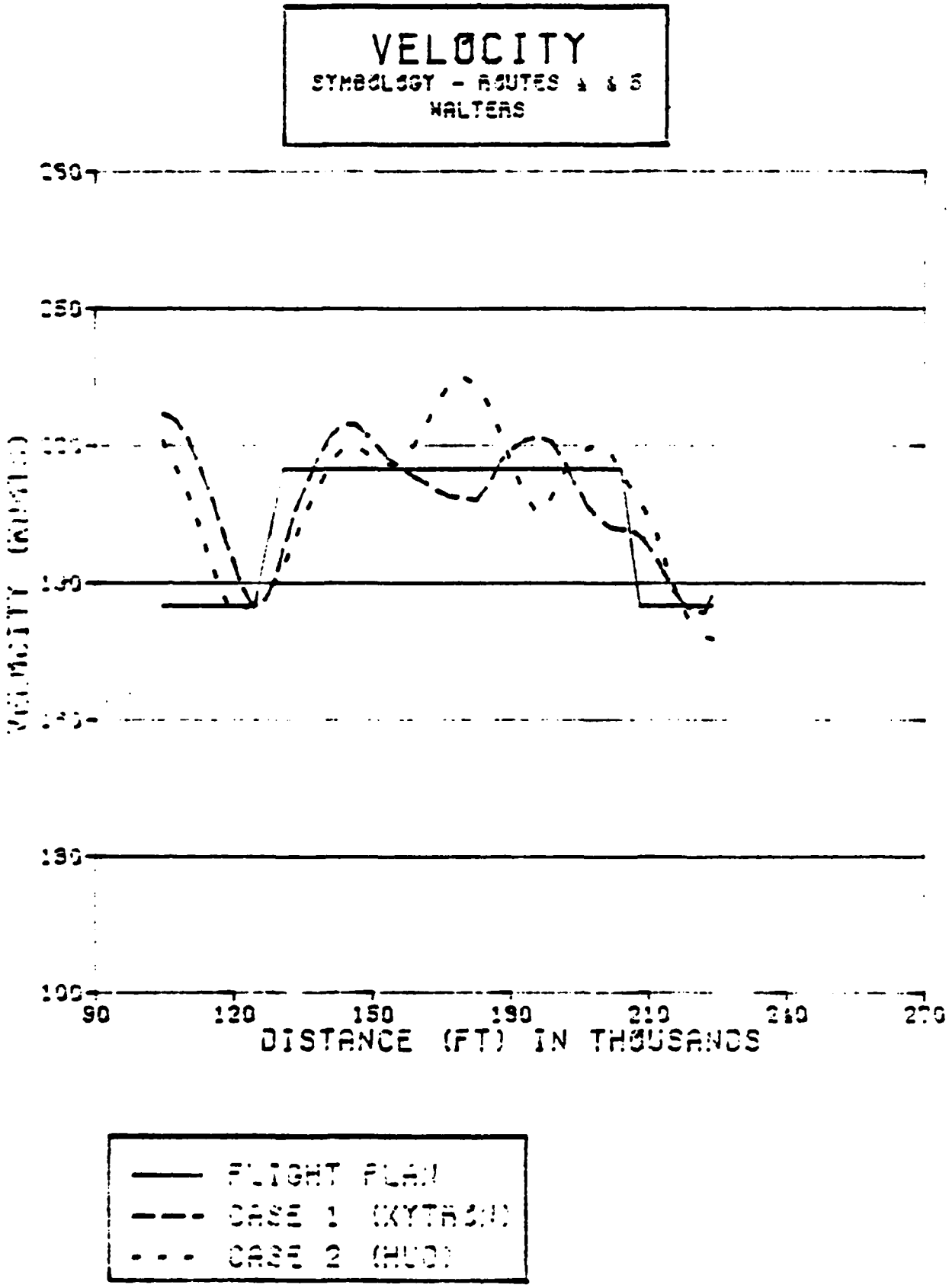

VELOCITY
CFPD - ROUTES 5 & 7
WALTERS
250
100
220
240
260
280
300
320
340
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 2 (HUD)

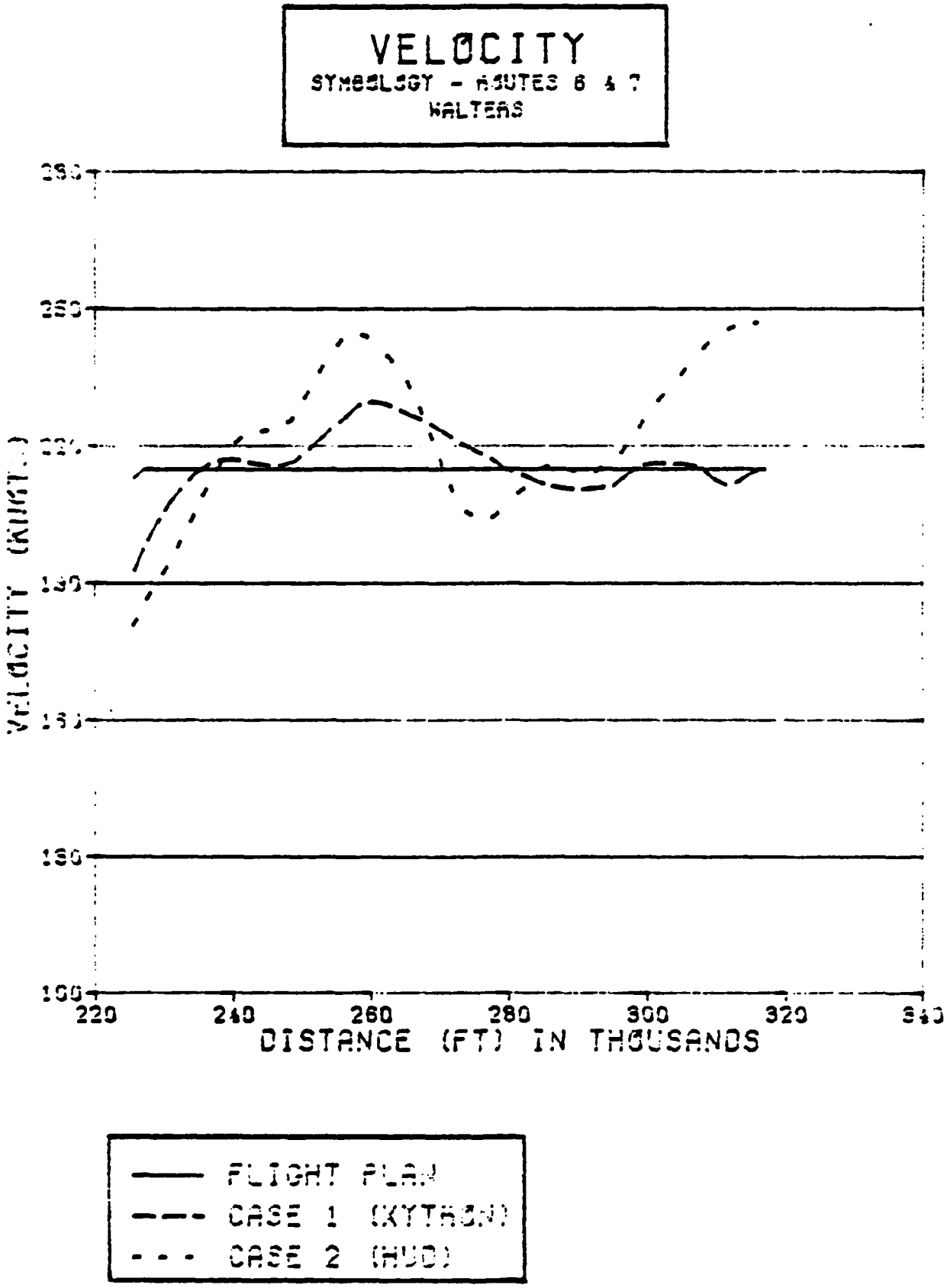

VELOCITY
CFPD - ROUTES 8 & 9
WALTERS
250
200
150
100
VELOCITY (KNOTS)
300
320
340
360
380
400
420
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 2 (HUD)

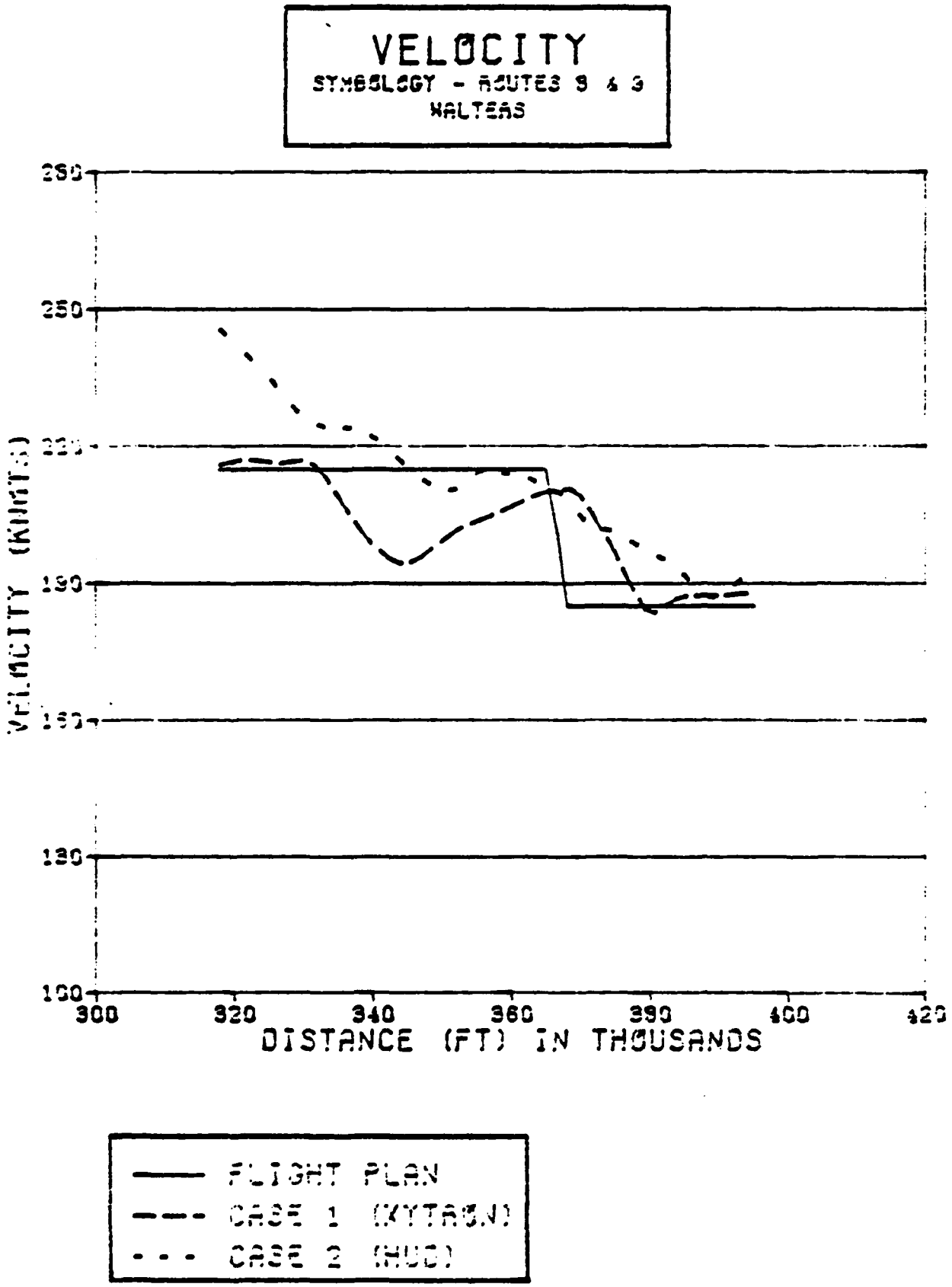

VELOCITY
CFPO - ROUTES 10 & 11
WALTERS
VELOCITY (KNMT.)
250
130
100
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 2 (HUD)

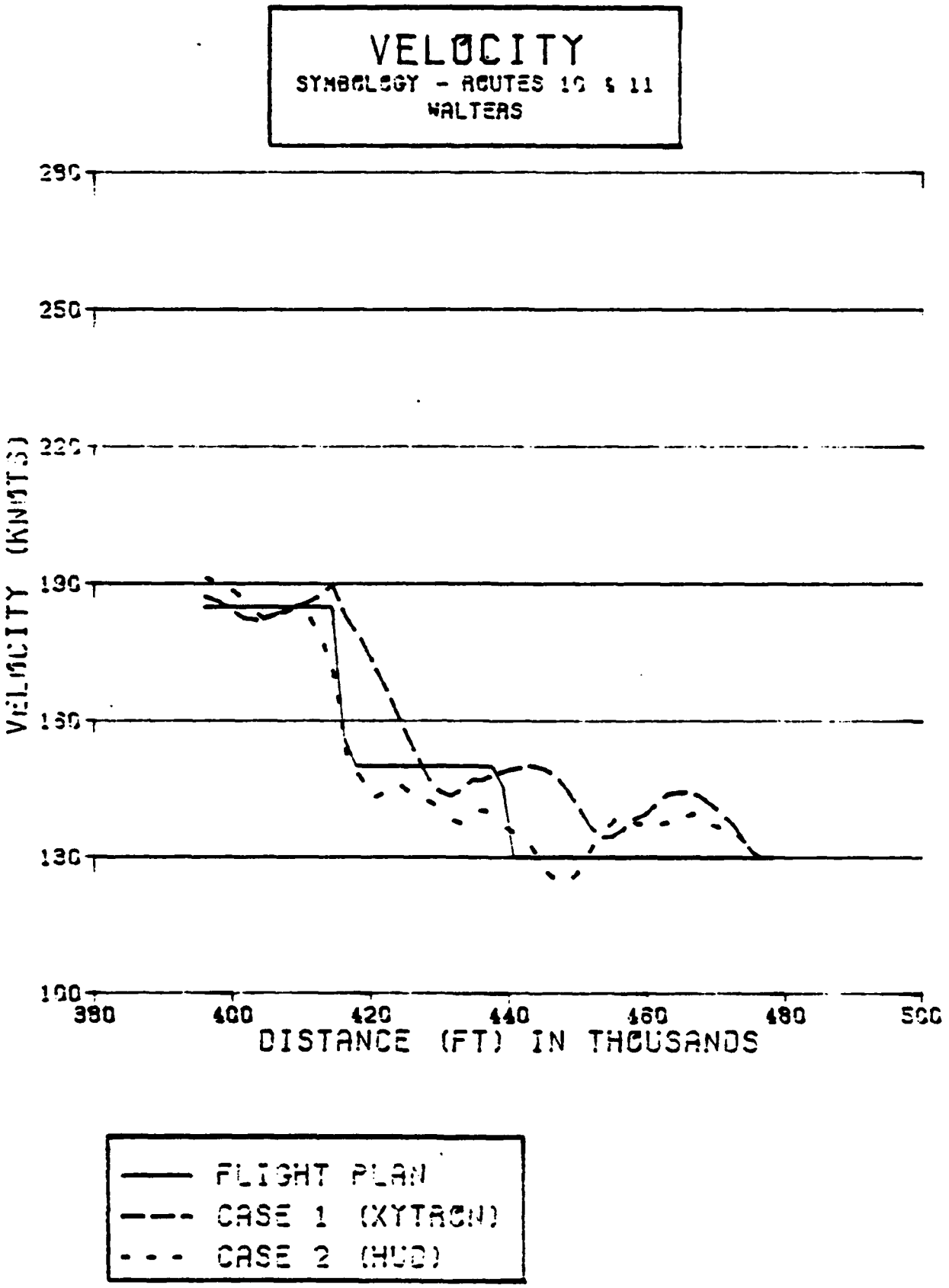

VELOCITY
CFPO - NIAGARA 25A
WALTERS
250
250
220
190
160
130
100
VELOCITY (KNOTS)
60
70
80
90
100
110
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 2 (HUD)

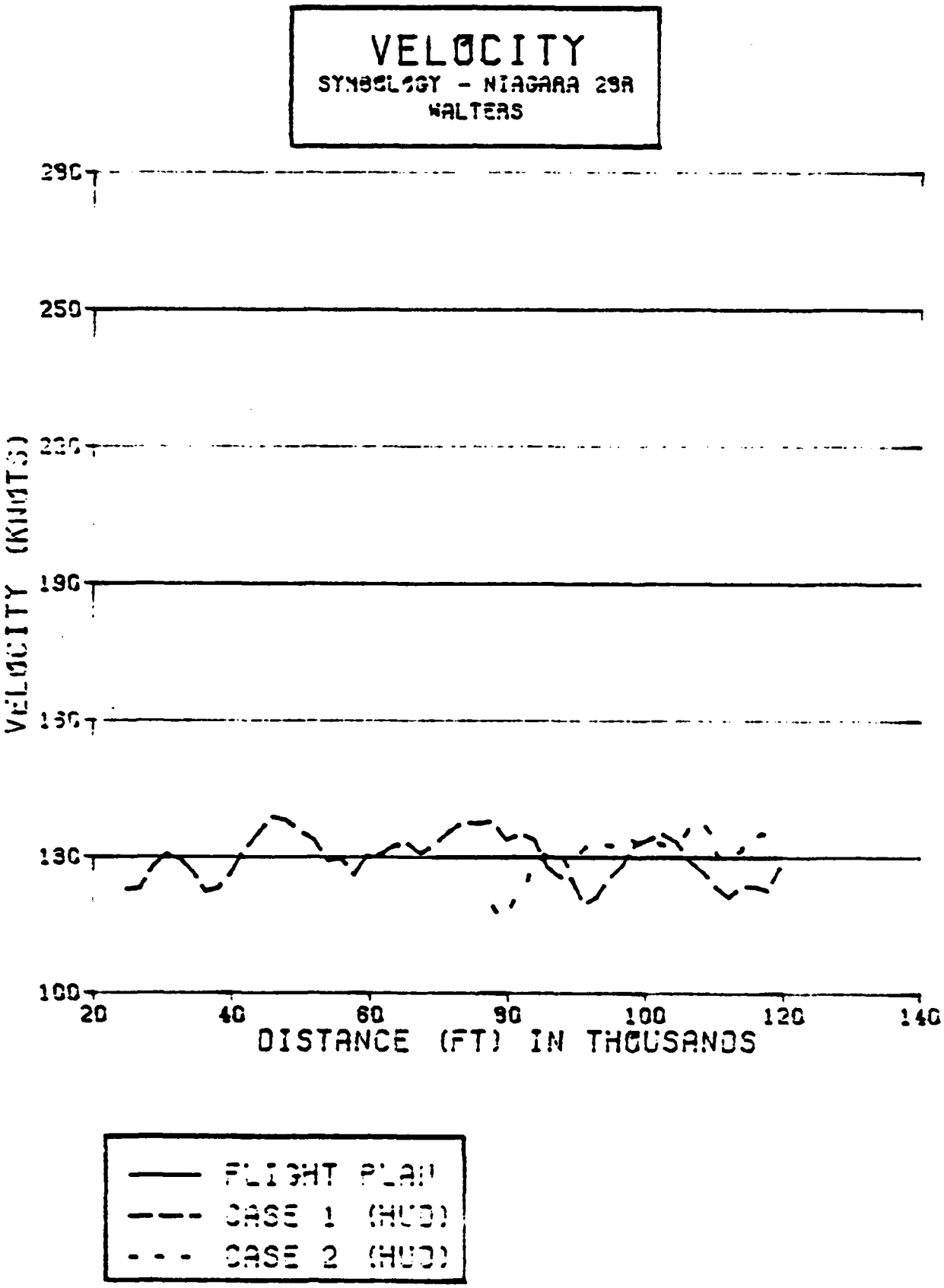

VELOCITY
SYMBOLOGY - ROUTES 2 4 8
WALTERS
250
200
150
100
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (KYTRON)
CASE 2 (HUC)

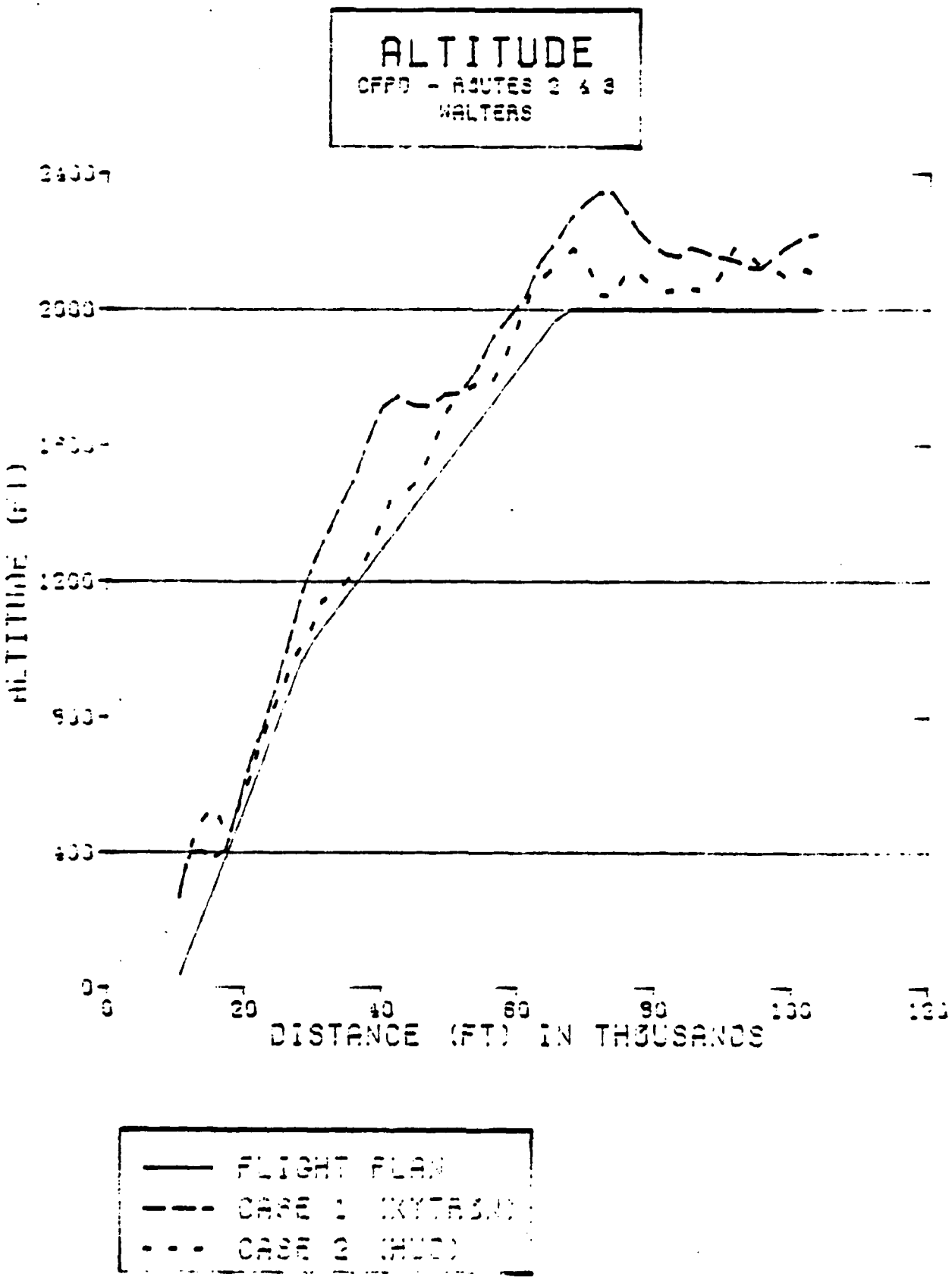

VELOCITY
SYMBOLOGY - ROUTES 4 & 5
WALTERS
250
200
150
100
90
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)
CASE 2 (HUD)

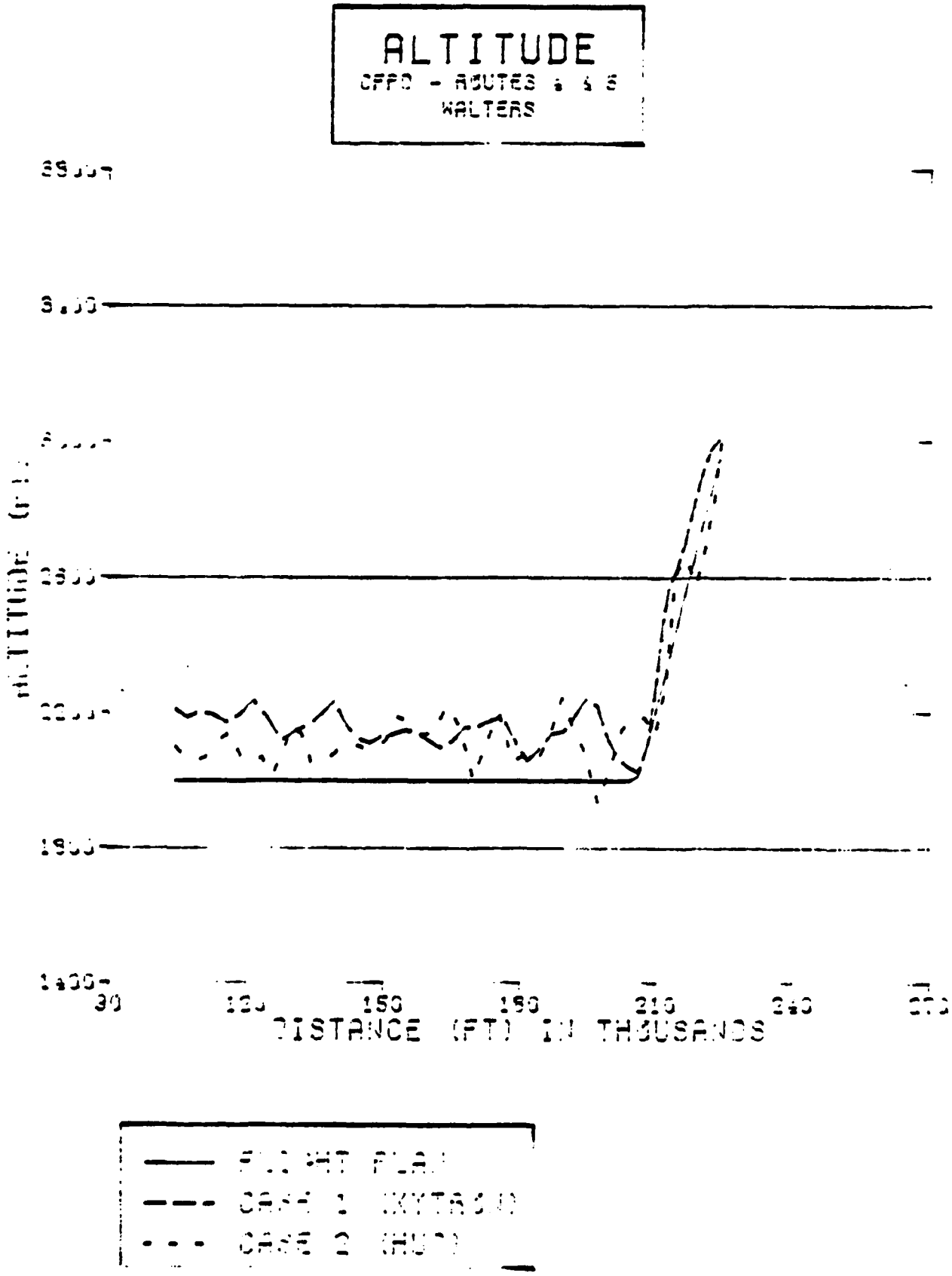

VELOCITY
SYMBOLOGY - ROUTES 6 & 7
WALTERS
VELOCITY (KNOTS)
DISTANCE (FT) IN THOUSANDS
220
240
260
280
300
320
340
FLIGHT PLAN
CASE 1 (XYTRON)
CASE 2 (HUD)

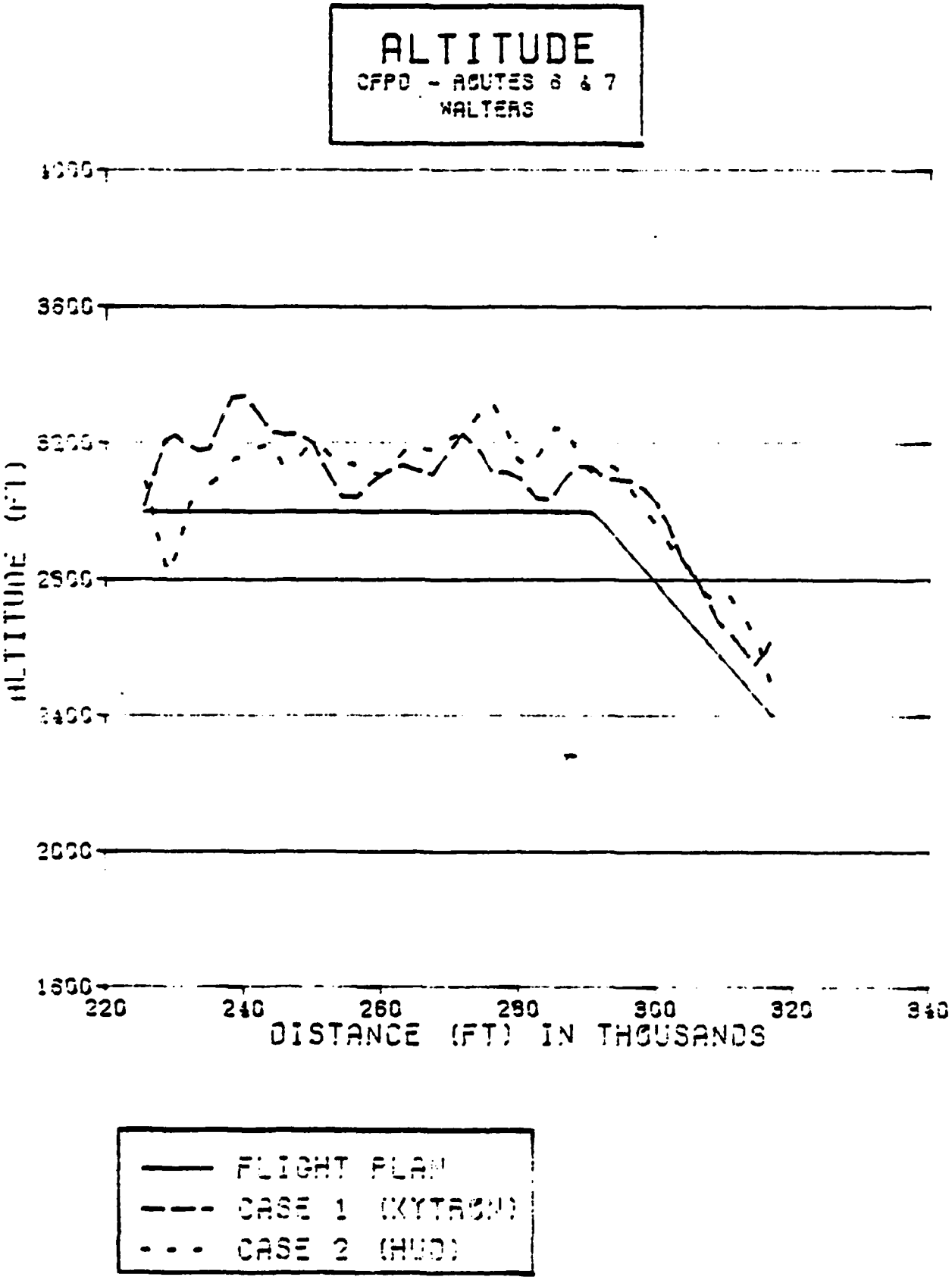

VELOCITY
SYMBOLOGY - ROUTES 8 & 9
WALTERS
250
190
100
300
320
340
360
380
400
420
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (KYTRON)
CASE 2 (HUD)

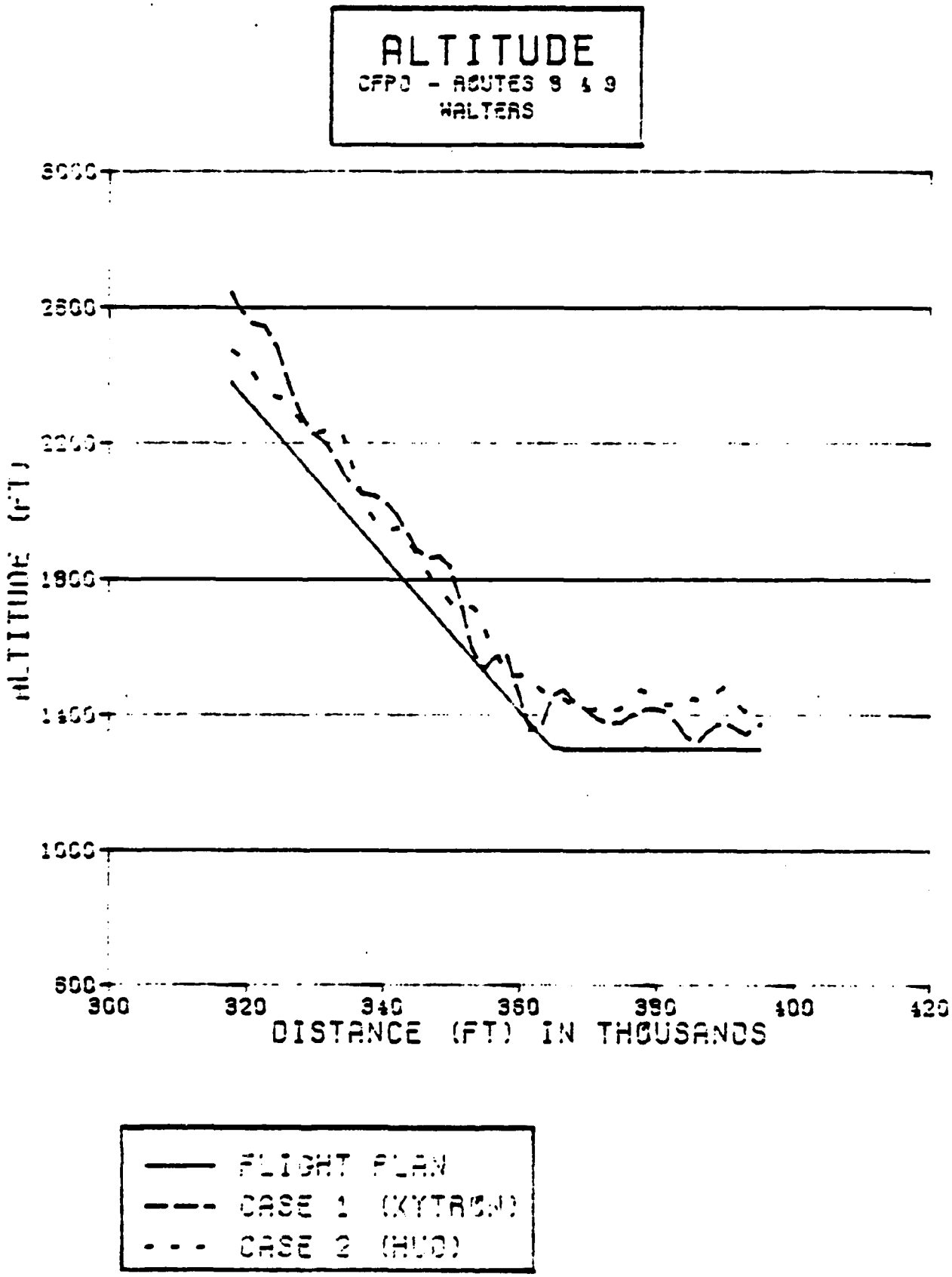

VELOCITY
SYMBOLOGY - ROUTES 10 & 11
WALTERS
VELOCITY (KNOTS)
290
250
220
190
160
130
100
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)
CASE 2 (HUD)

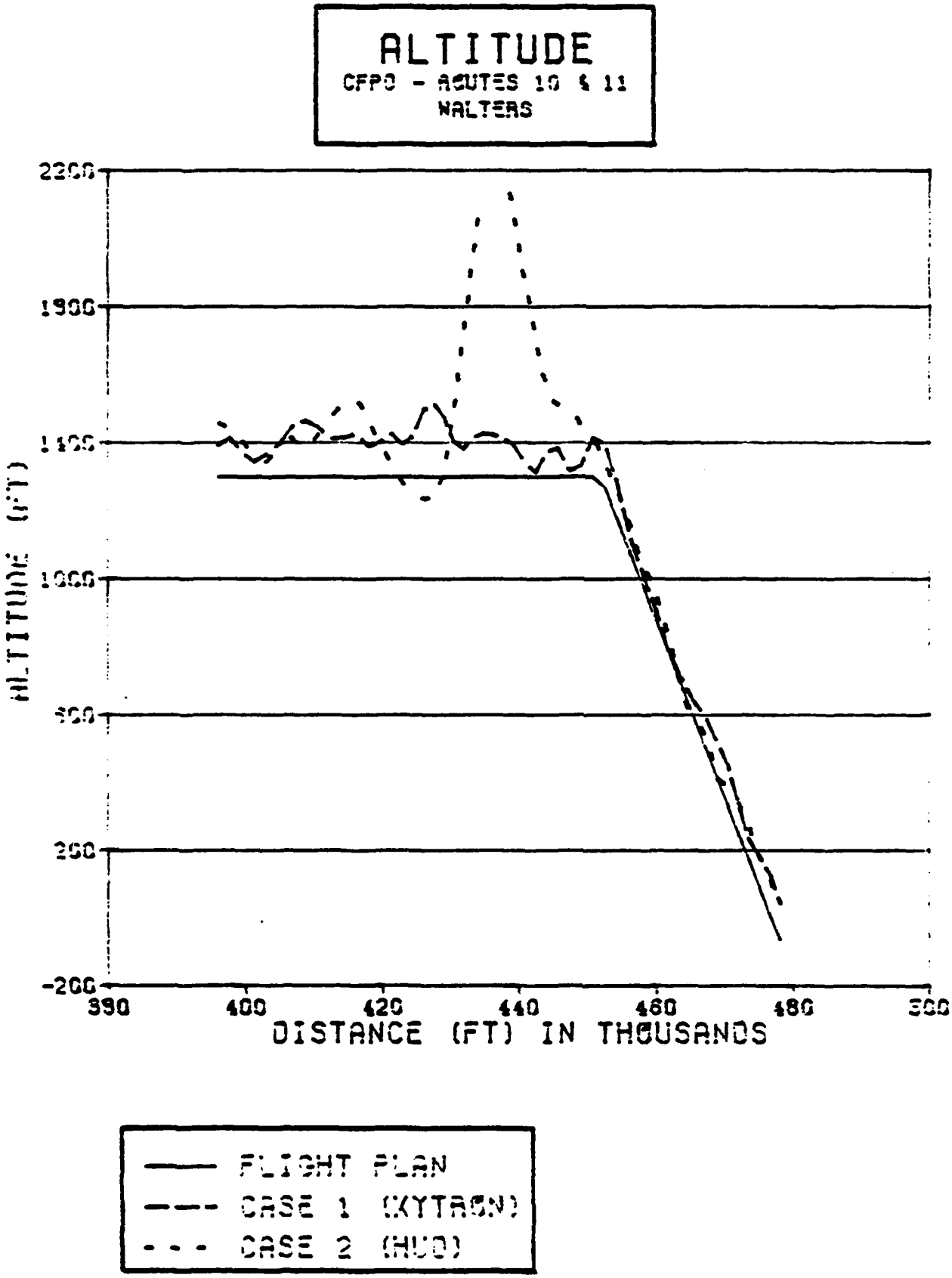

VELOCITY
SYMBOLOGY - NIAGARA 29R
WALTERS
290
250
230
190
170
130
100
VELOCITY (KNOTS)
20
40
60
80
100
120
140
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (HUD)
CASE 2 (HUD)

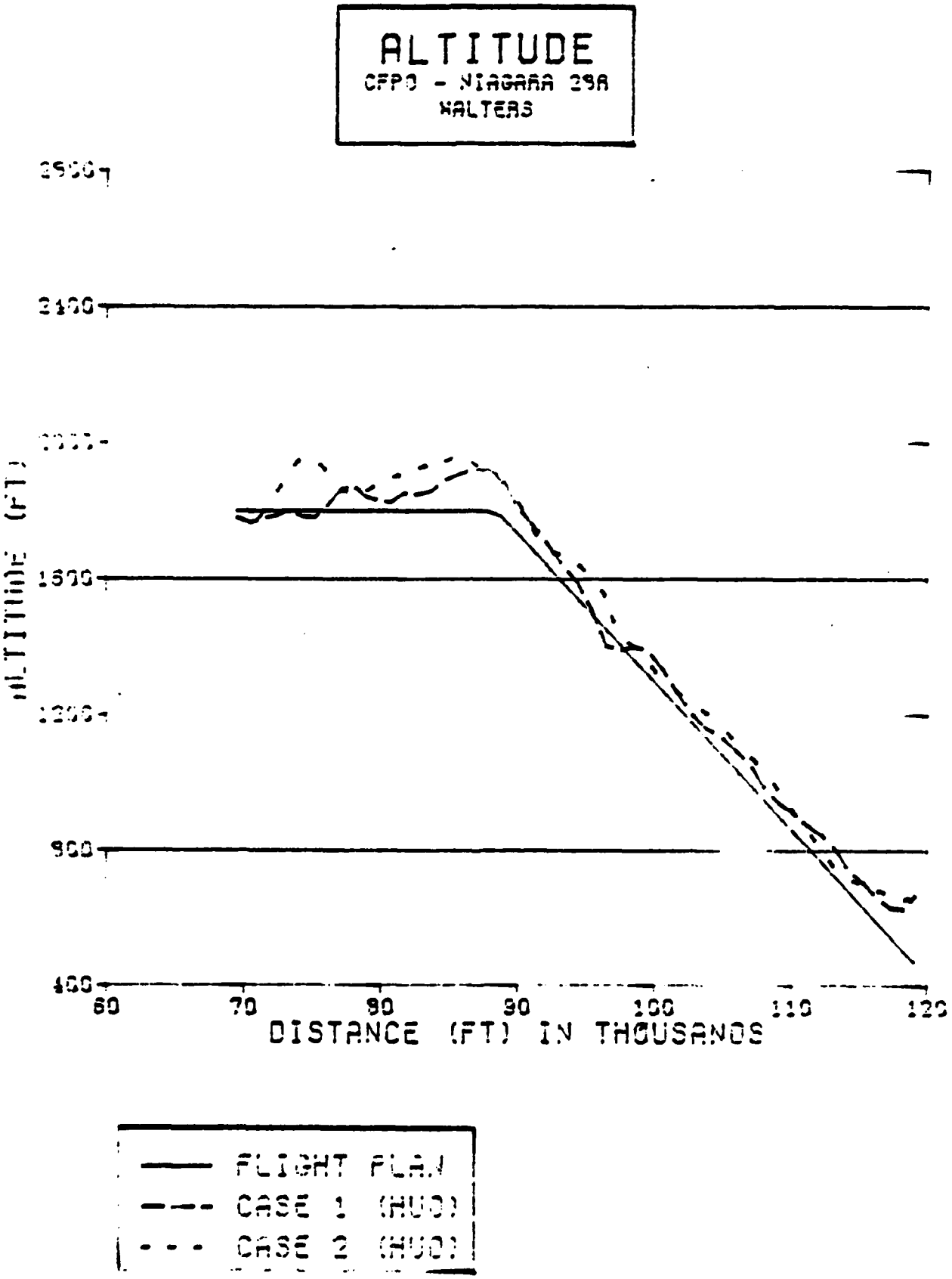

ALTITUDE
CFPD - ROUTES 2 & 3
WALTERS
2000
1200
0
20
40
60
80
100
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (KYTRON)
CASE 2 (HUD)

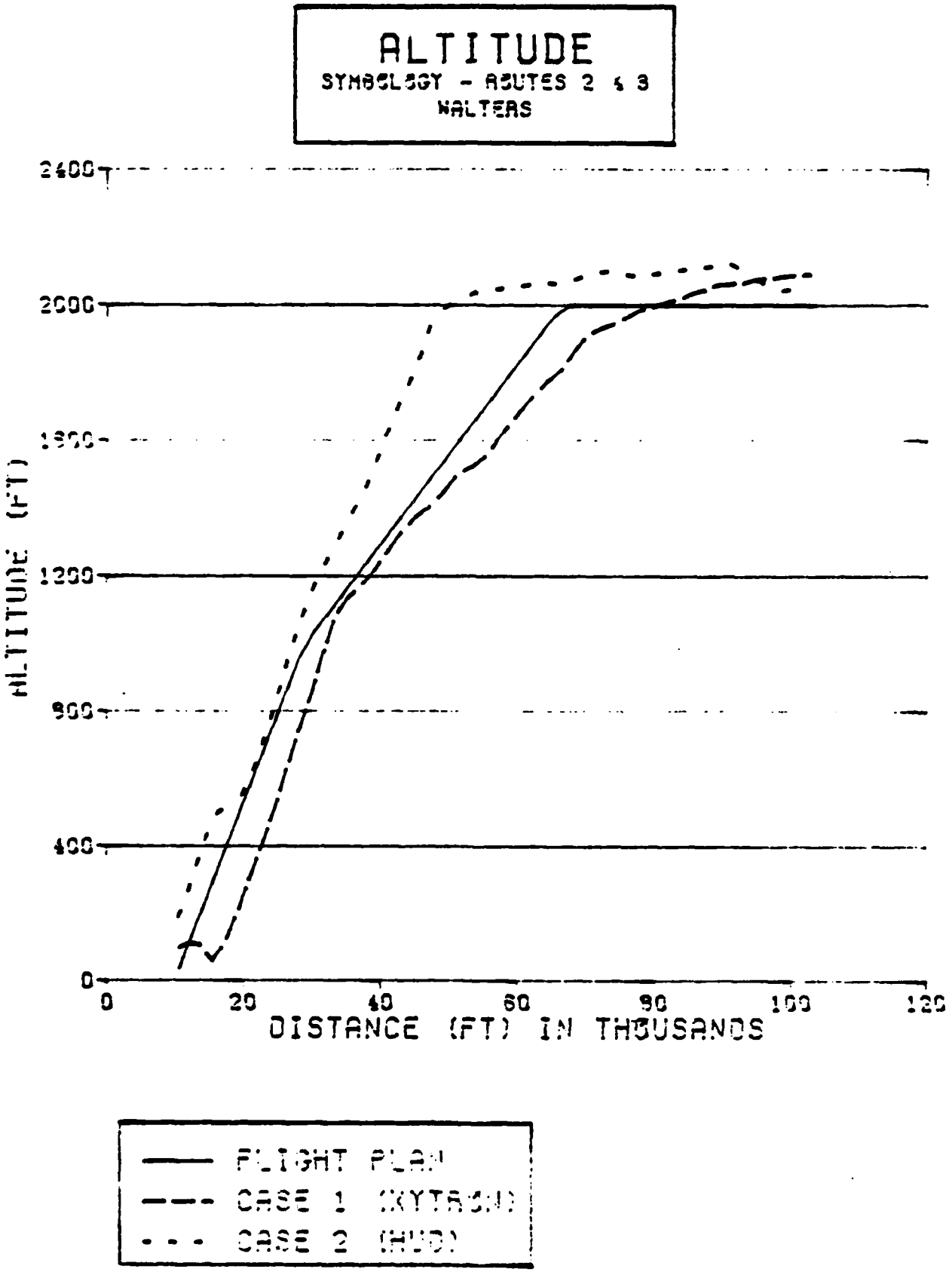

ALTITUDE
CFPD - ROUTES 4 & 5
WALTERS
ALTITUDE (FT)
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (KYTRON)
CASE 2 (HUP)

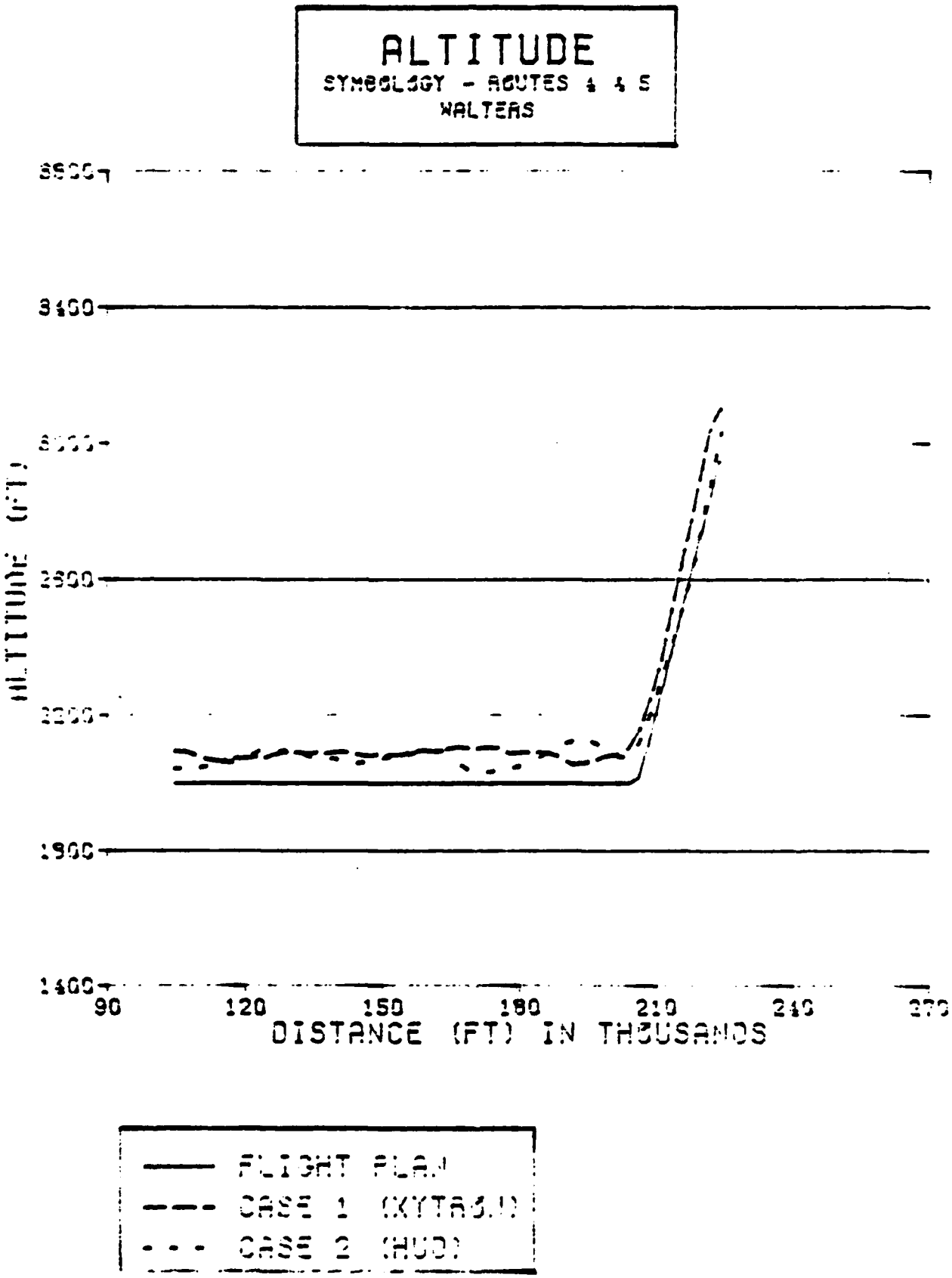

ALTITUDE
CFPD - ROUTES 6 & 7
WALTERS
4000
3600
3200
2800
2400
2000
1600
ALTITUDE (FT)
220
240
260
280
300
320
340
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (KYTRON)
CASE 2 (HUD)

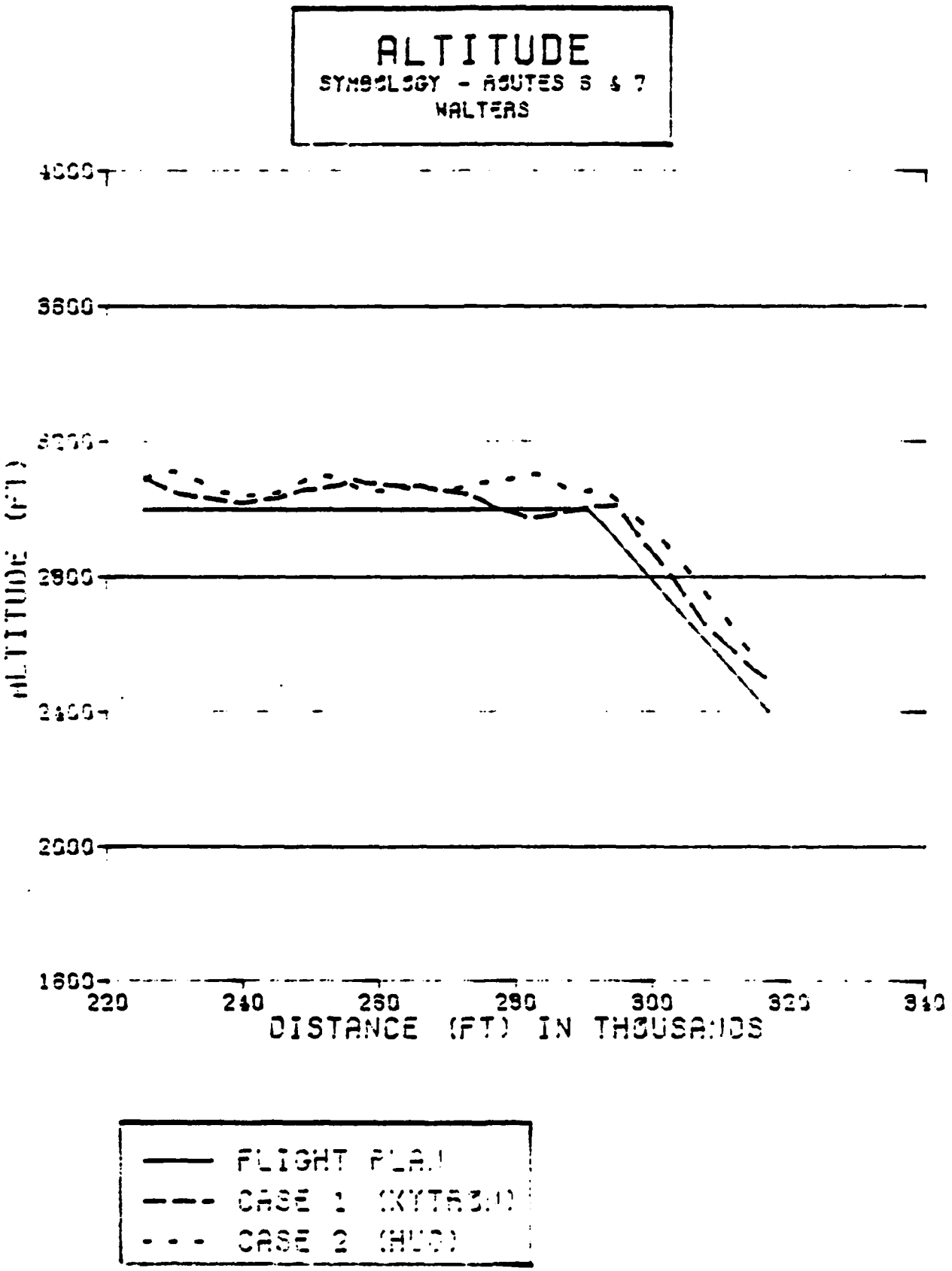

ALTITUDE
CFPO - ROUTES 8 & 9
WALTERS
3000
2600
2200
1800
1400
1000
600
ALTITUDE (FT)
300
320
340
360
380
400
420
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (KYTRON)
CASE 2 (HUD)

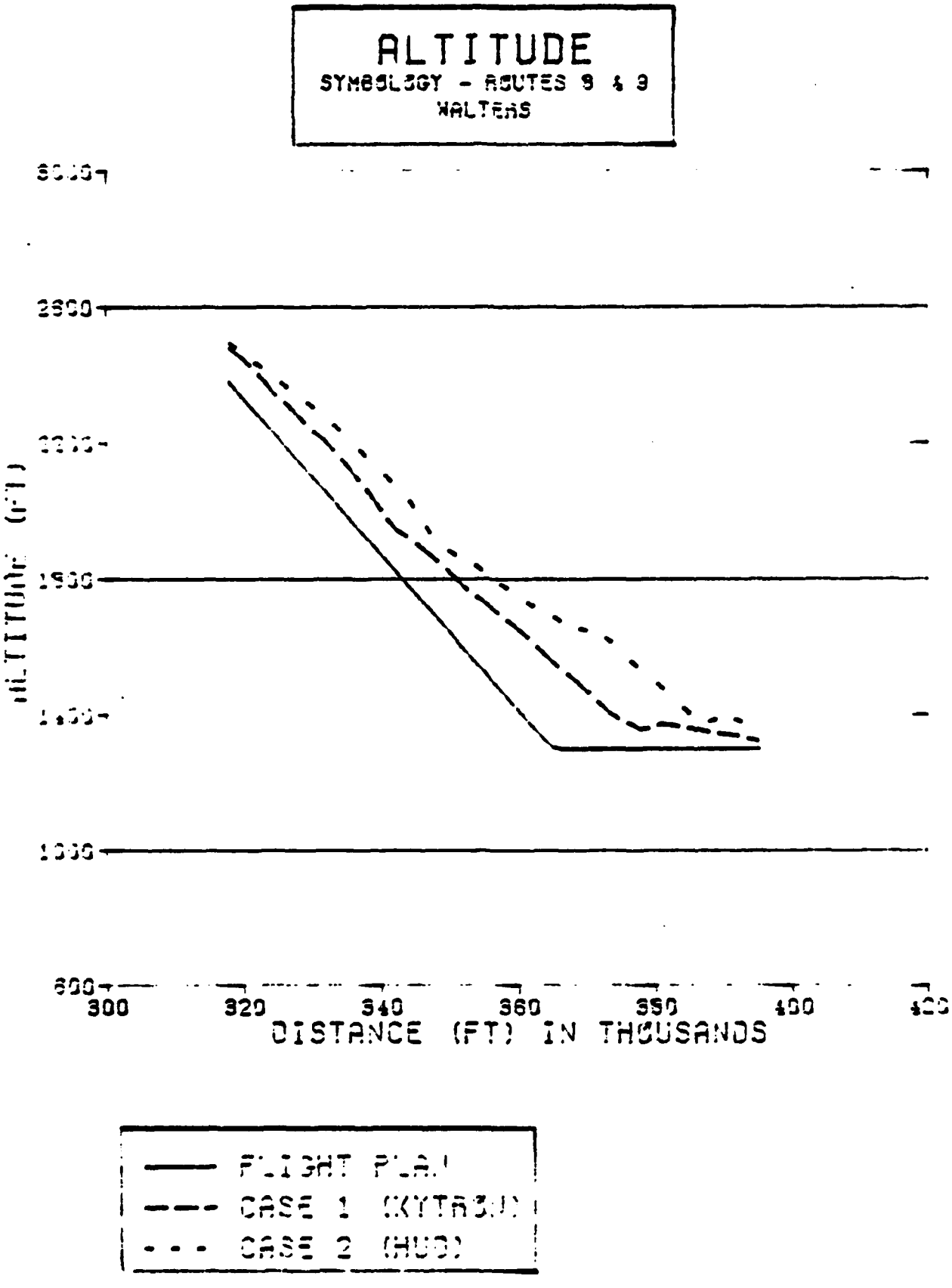

ALTITUDE
CFPO - ROUTES 10 & 11
WALTERS
2200
1900
1400
1000
600
200
-200
ALTITUDE (FT)
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)
CASE 2 (HUD)

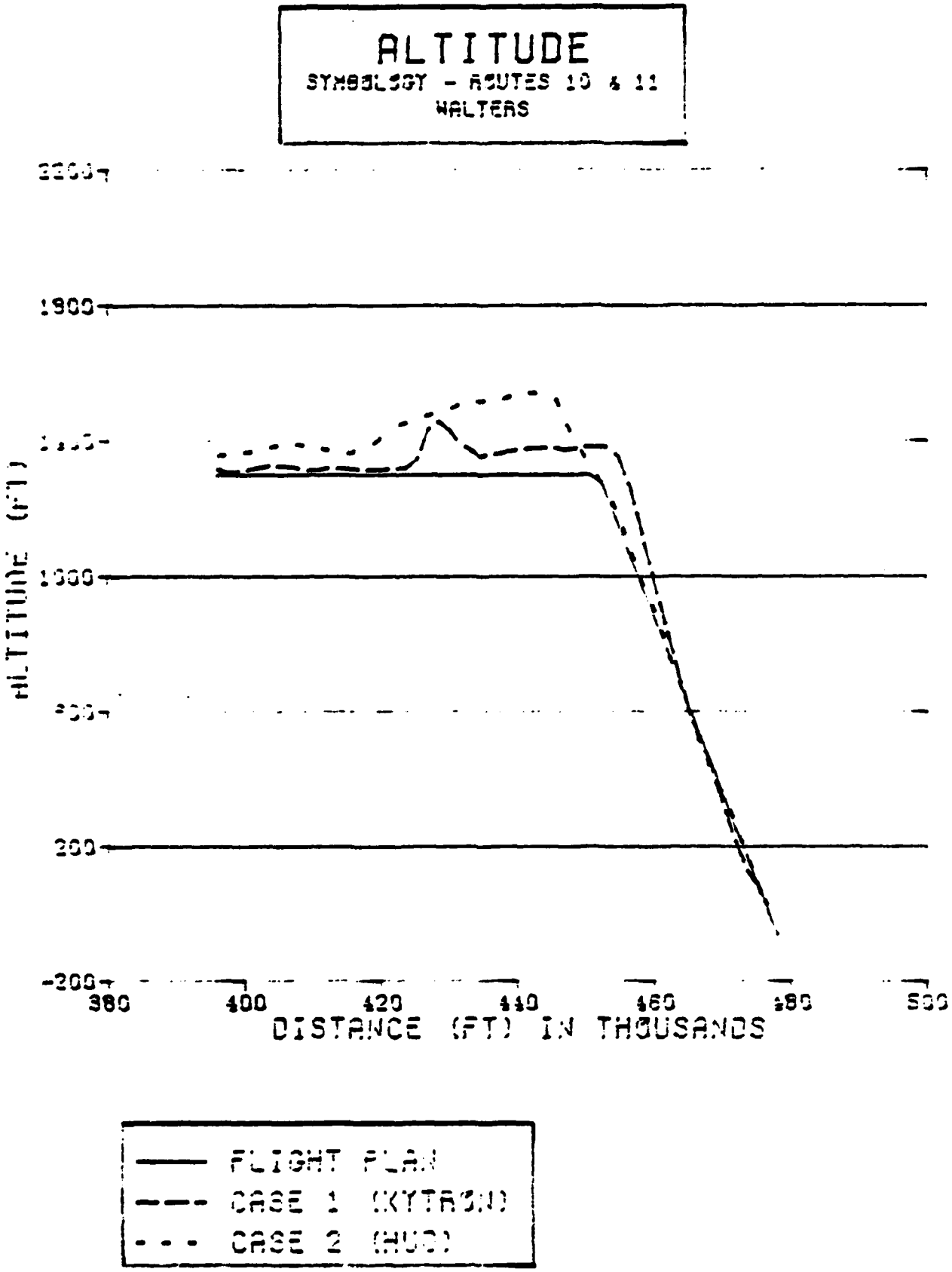

ALTITUDE
CFPO - NIAGARA 29R
WALTERS
2400
1600
900
400
60
70
80
90
100
110
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (HUD)
CASE 2 (HUD)

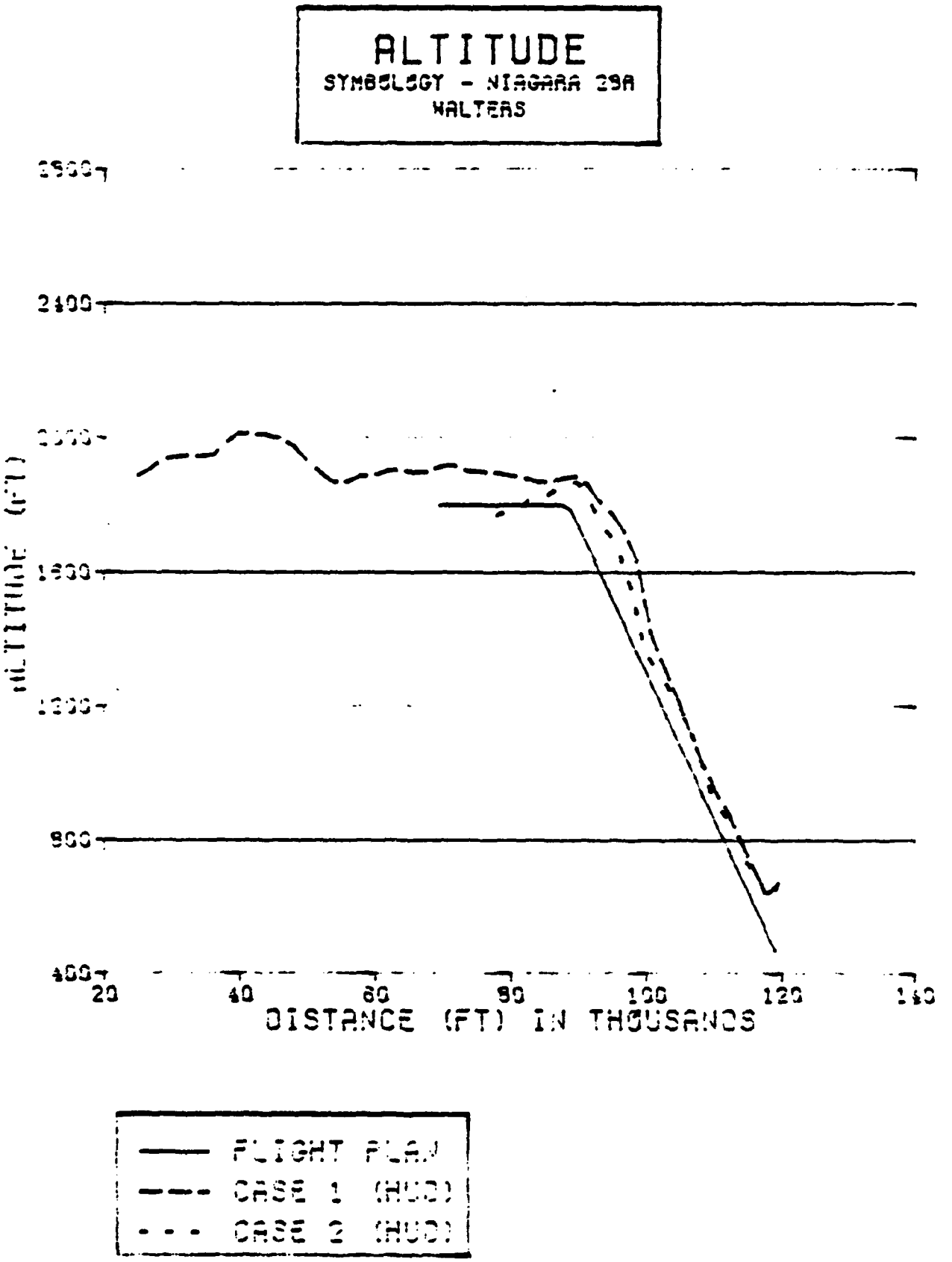

ALTITUDE
SYMBOLOGY - ROUTES 2 & 3
WALTERS
2400
2000
1600
1200
800
400
0
ALTITUDE (FT)
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (KYTRON)
CASE 2 (HUD)

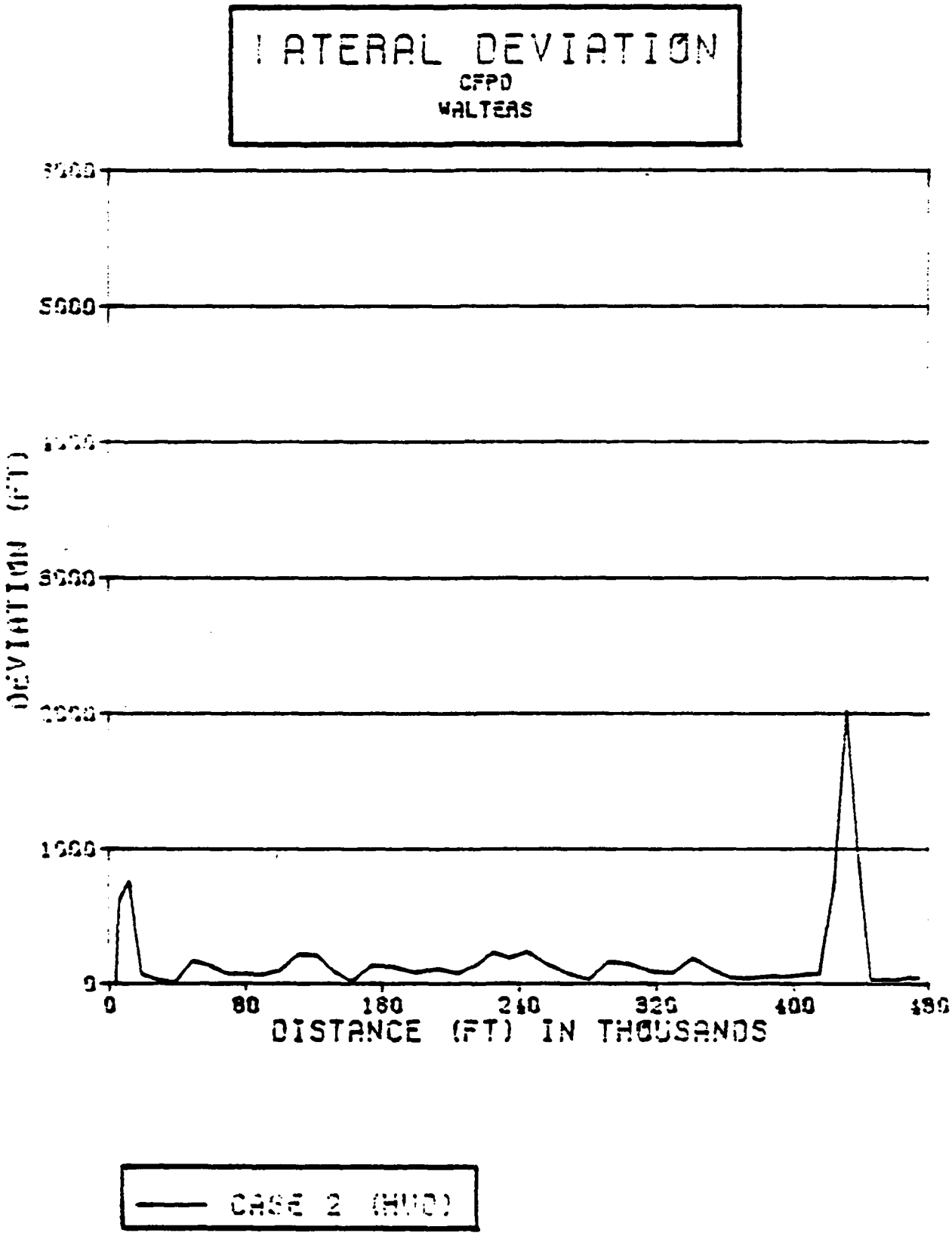

ALTITUDE
SYMBOLOGY - ROUTES 4 & 5
WALTERS
3400
2600
1900
1400
90
120
150
180
210
240
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)
CASE 2 (HUD)

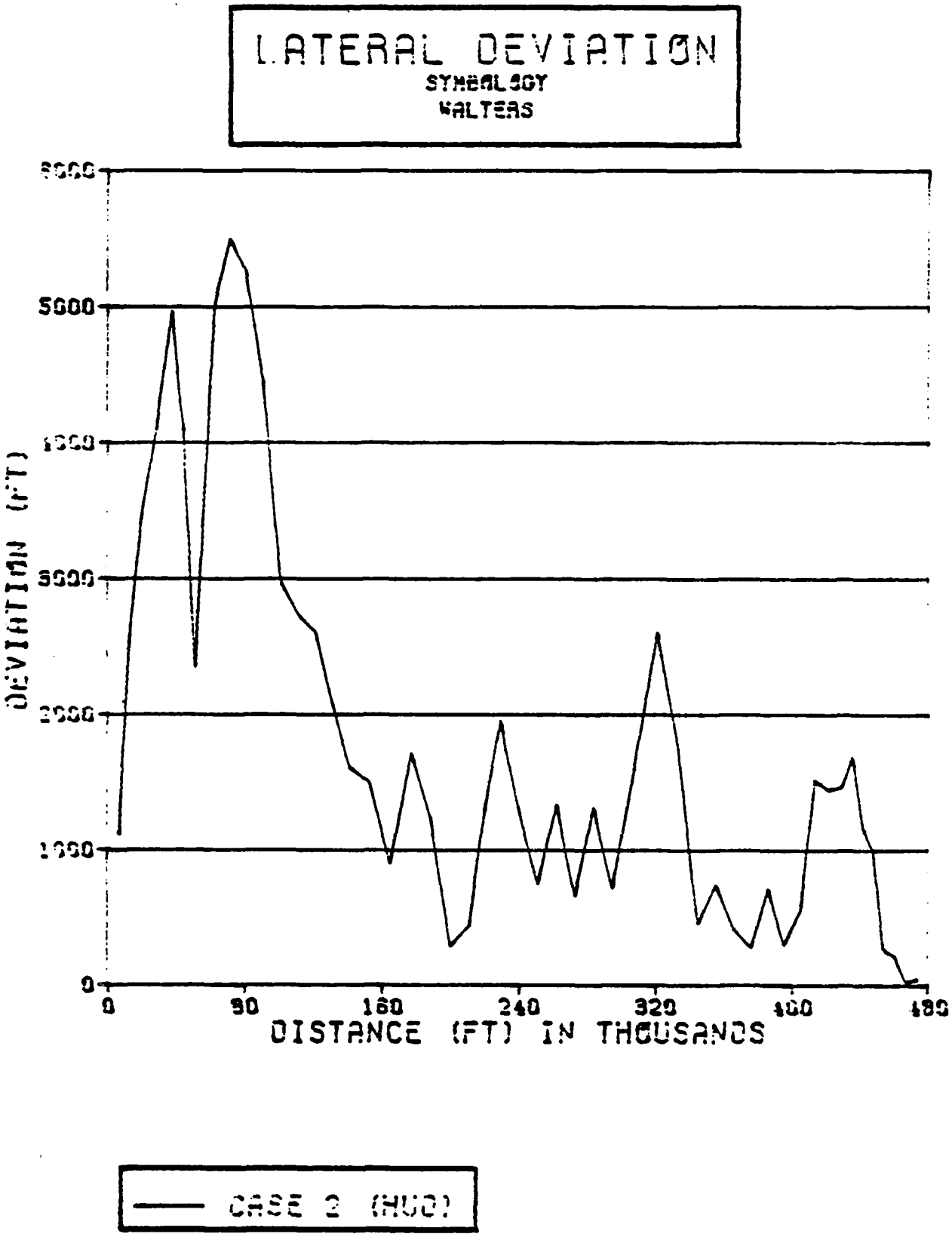

ALTITUDE
SYMBOLOGY - ROUTES 5 & 7
WALTERS
4000
3600
3200
2800
2400
2000
1600
ALTITUDE (FT)
220
240
260
280
300
320
340
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (KYTRON)
CASE 2 (HUD)

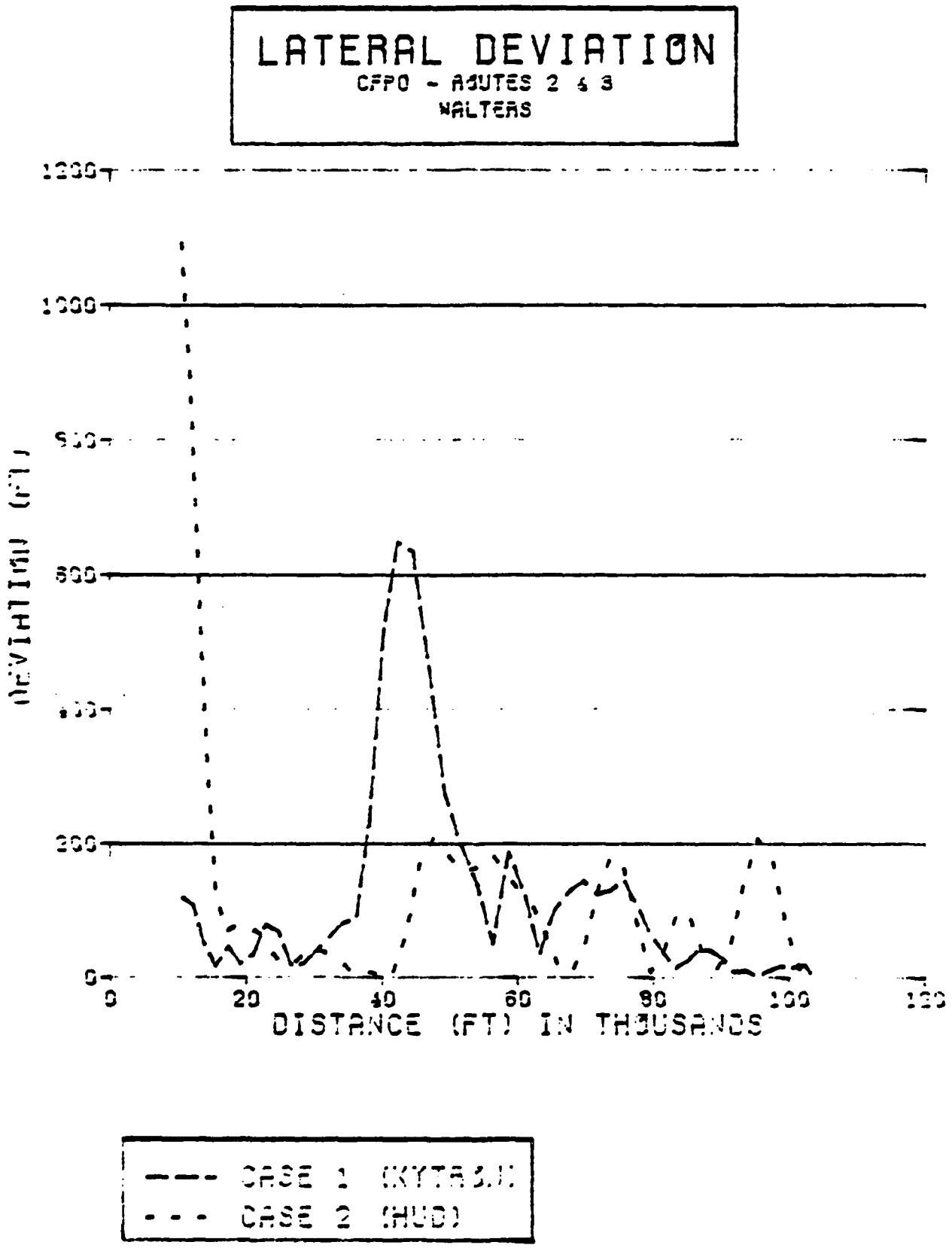

ALTITUDE
SYMBOLOGY - ROUTES 9 & 9
WALTERS
2500
1500
1000
600
300
320
340
360
380
400
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (KYTRON)
CASE 2 (HUD)

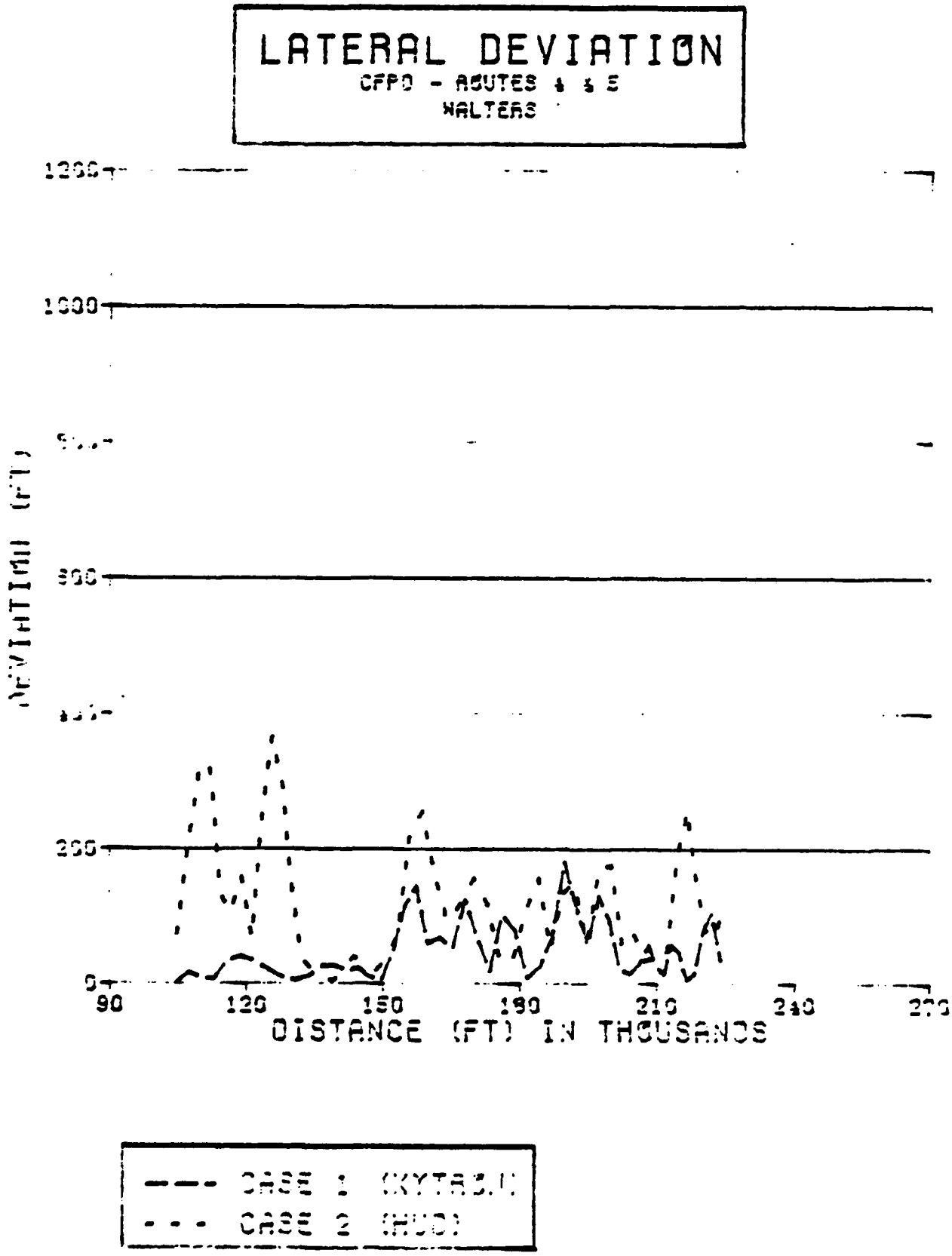

ALTITUDE
SYMBOLOGY - ROUTES 10 & 11
WALTERS
1900
1000
200
-200
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (KYTRON)
CASE 2 (HUD)

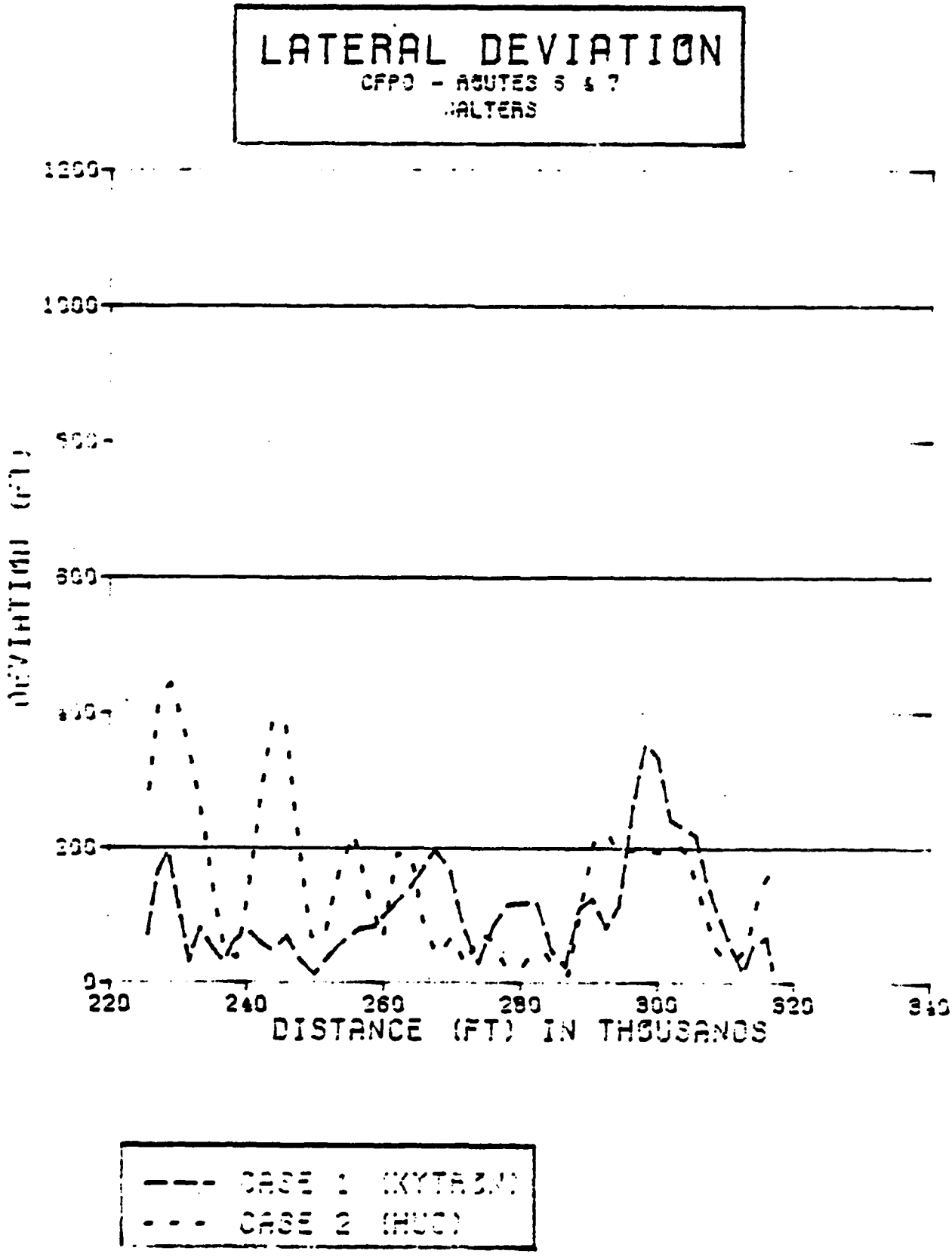

ALTITUDE
SYMBOLOGY - NIAGARA 29A
WALTERS
2400
1600
800
400
20
40
60
80
100
120
140
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (HUD)
CASE 2 (HUD)

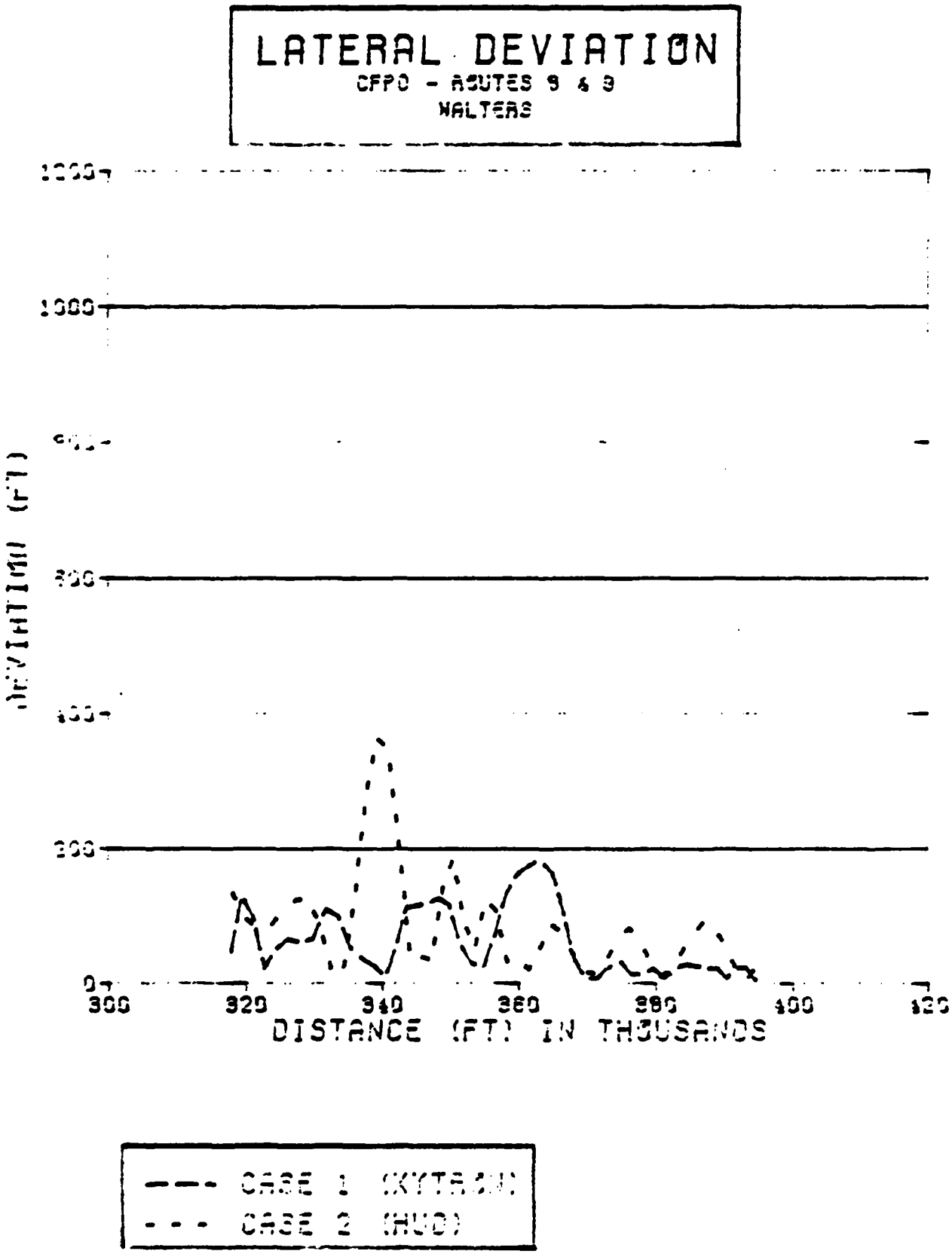

LATERAL DEVIATION
CFPD
WALTERS
5000
3000
1000
0
0
80
160
240
320
400
480
DISTANCE (FT) IN THOUSANDS
CASE 2 (HUD)

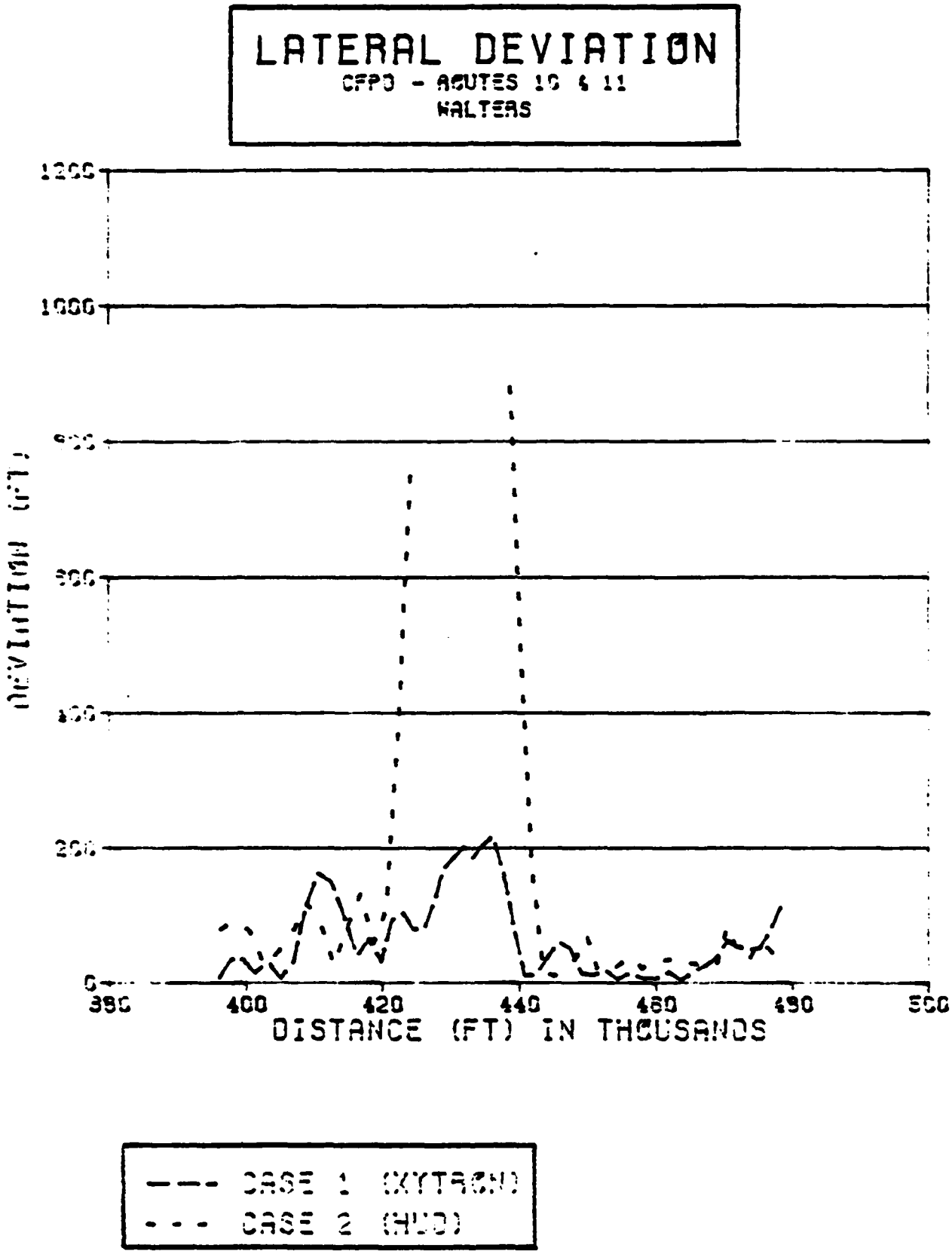

LATERAL DEVIATION
SYMBALSOY
WALTERS
6000
5000
4000
3000
2000
1000
0
DEVIATION (FT)
0
80
160
240
320
400
480
DISTANCE (FT) IN THOUSANDS
CASE 2 (HUD)

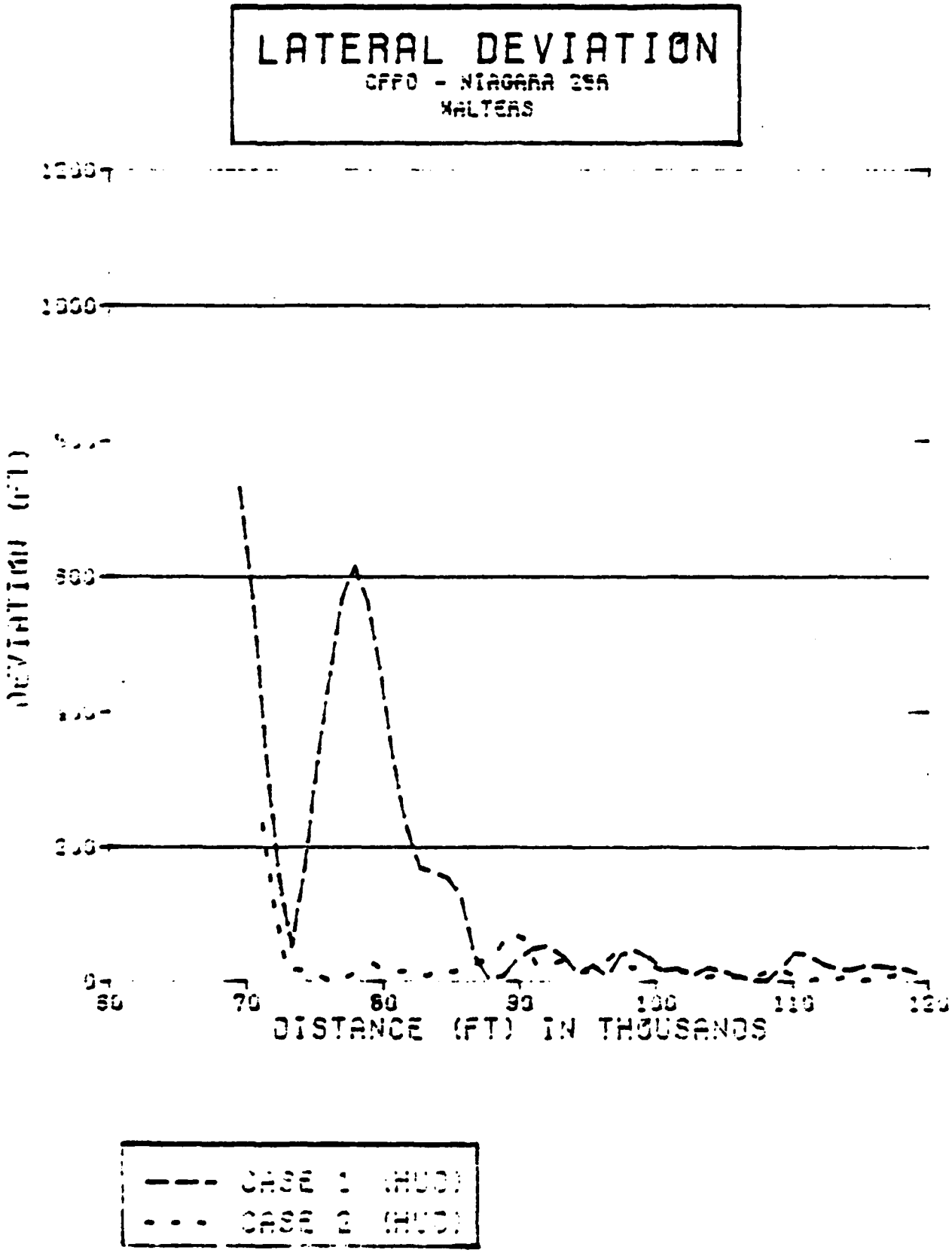

LATERAL DEVIATION
CFPO - ASUTES 2 & 3
WALTERS
1200
1000
800
600
400
200
0
DEVIATION (FT)
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
CASE 1 (KYTRAN)
CASE 2 (HUD)

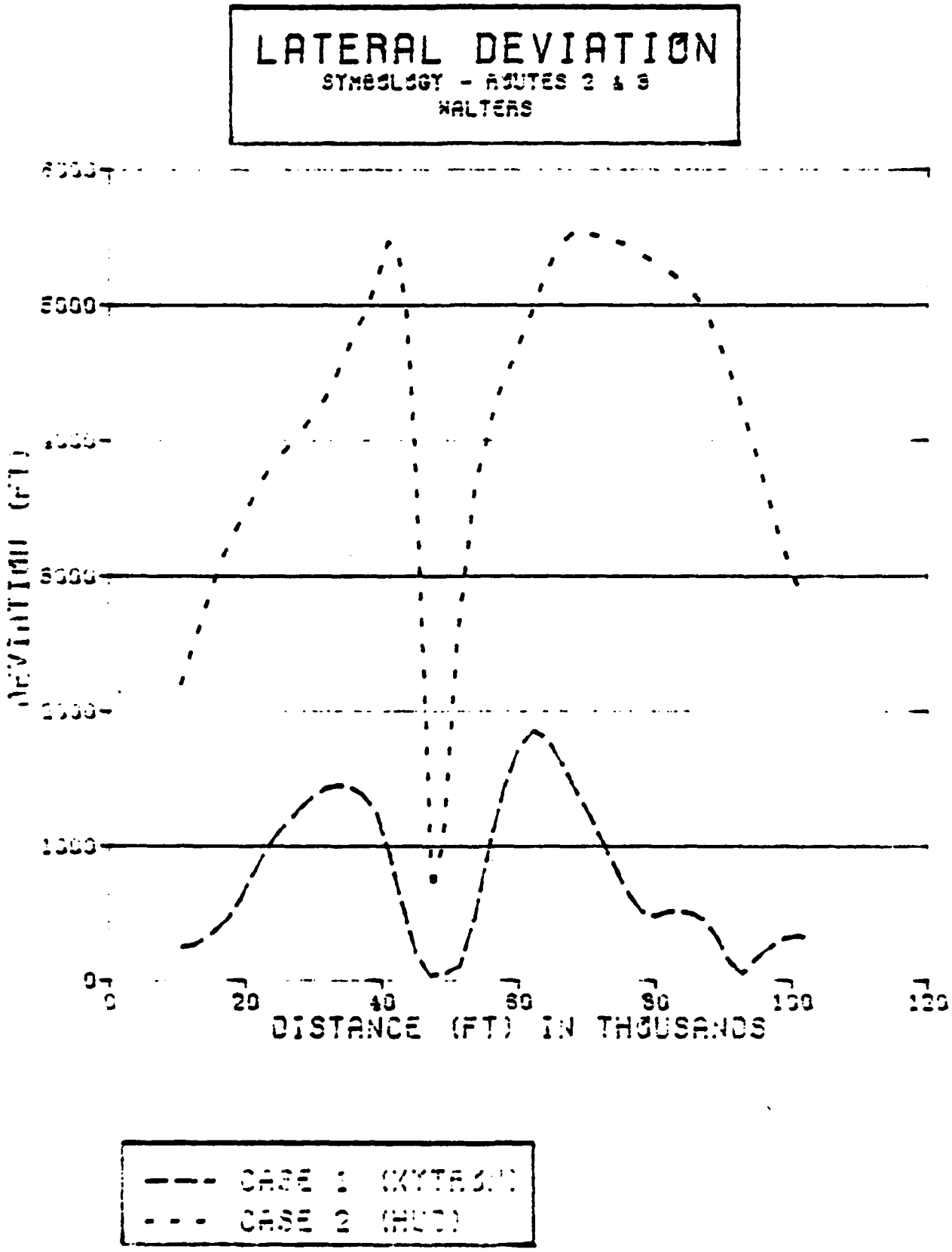

LATERAL DEVIATION
CFPD - ASUTES & & E
WALTERS
1000
200
0
90
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
CASE 1 (KYTRON)
CASE 2 (HUD)

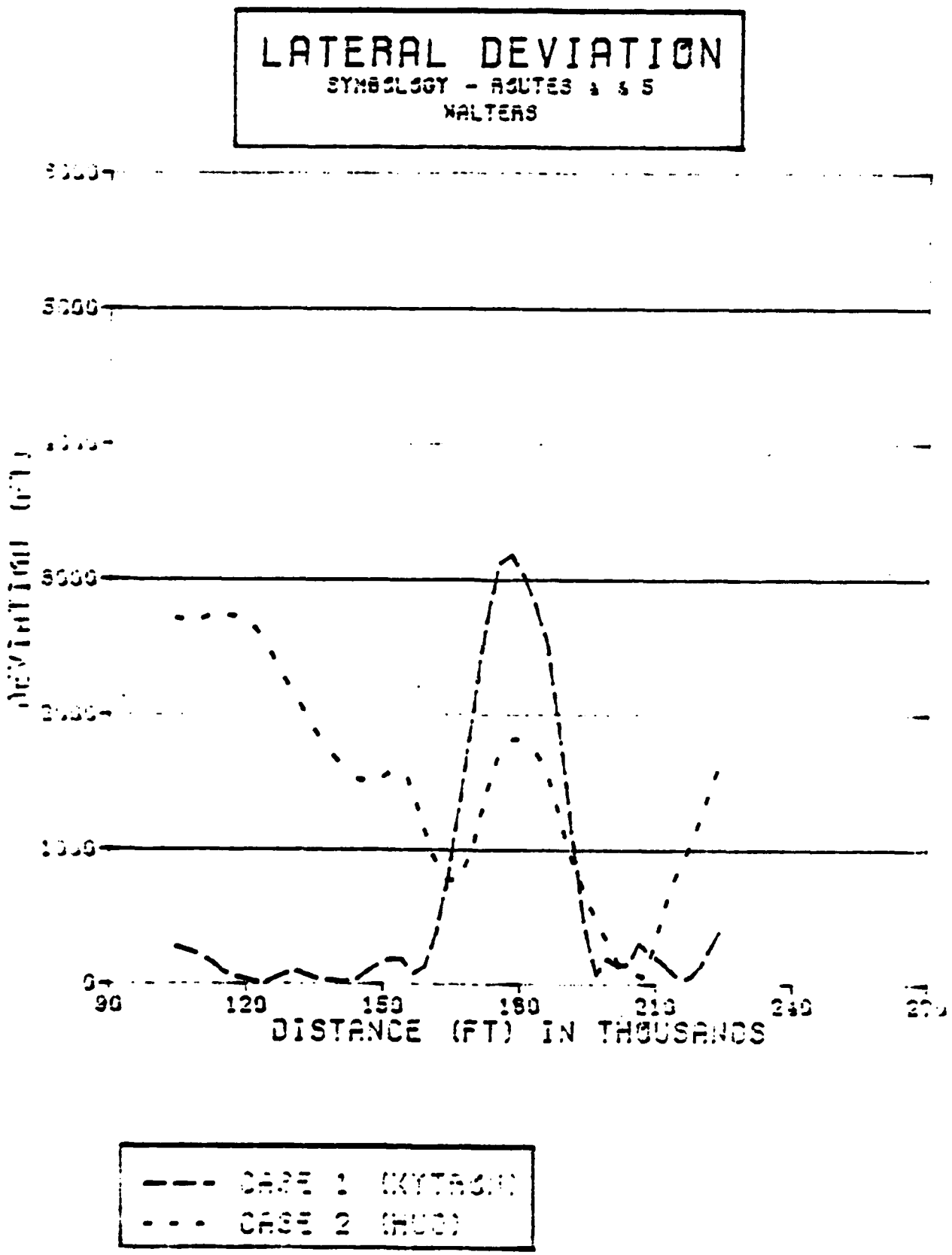

LATERAL DEVIATION
CFPO - ROUTES 6 & 7
WALTERS
1200
1000
800
600
400
200
0
DEVIATION (FT)
220
240
260
280
300
320
340
DISTANCE (FT) IN THOUSANDS
CASE 1 (KYTRON)
CASE 2 (HUC)

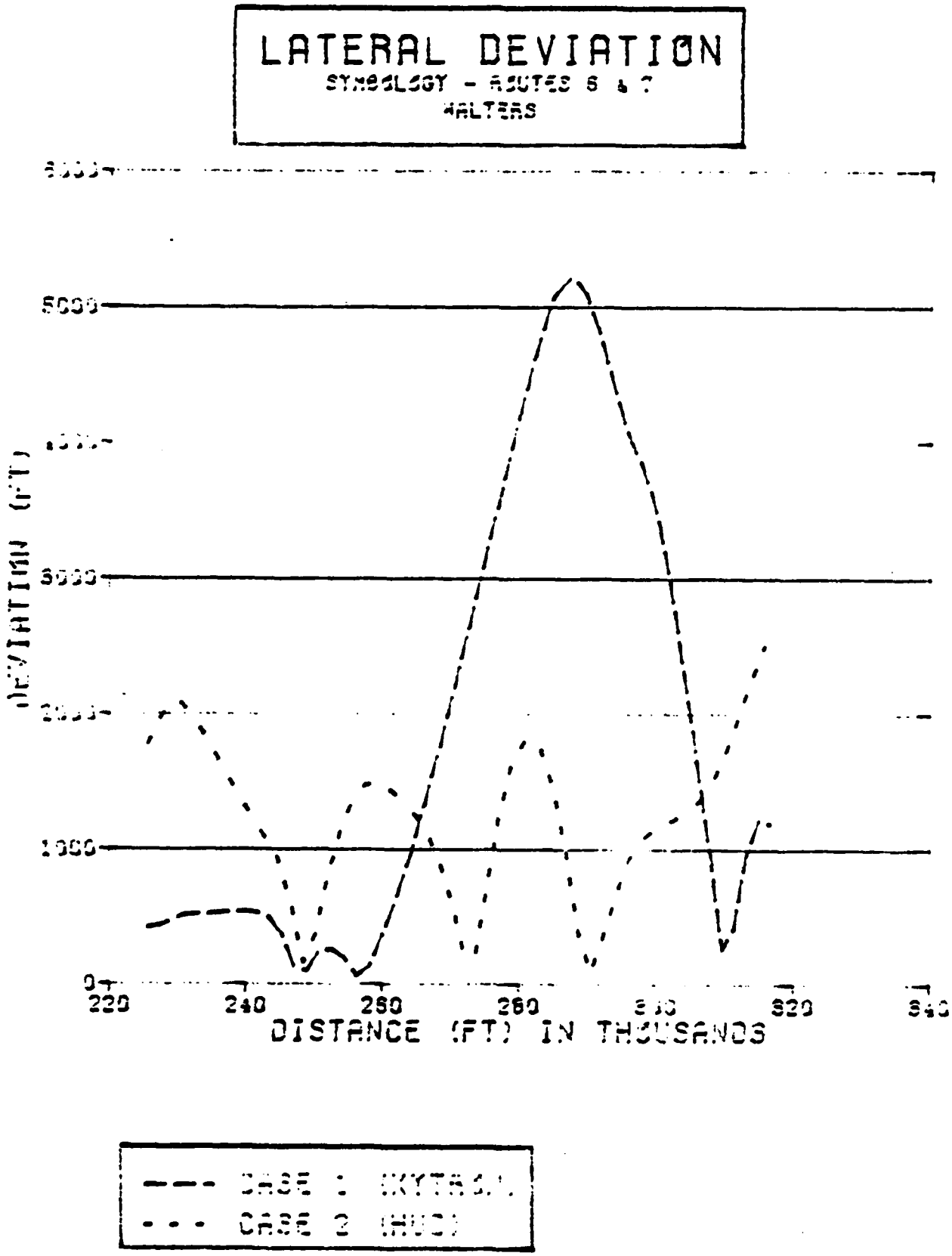

LATERAL DEVIATION
CFPD - ROUTES 8 & 9
WALTERS
1000
0
300
320
340
360
380
400
420
DISTANCE (FT) IN THOUSANDS
CASE 1 (KYTRON)
CASE 2 (HUD)

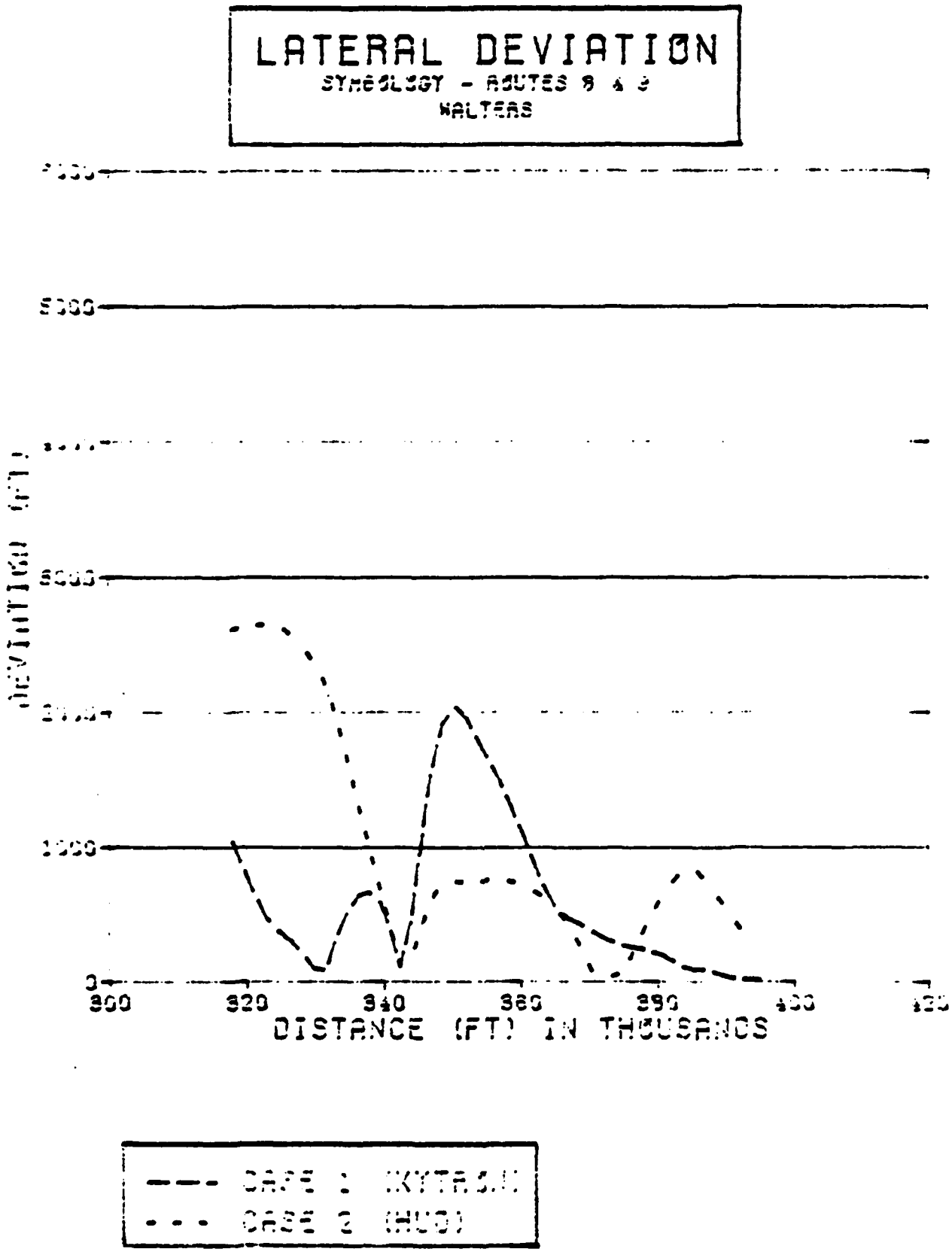

LATERAL DEVIATION
CFPD - ROUTES 10 & 11
WALTERS
1200
1000
800
600
400
200
0
DEVIATION (FT)
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
CASE 1 (XYTRON)
CASE 2 (HUD)

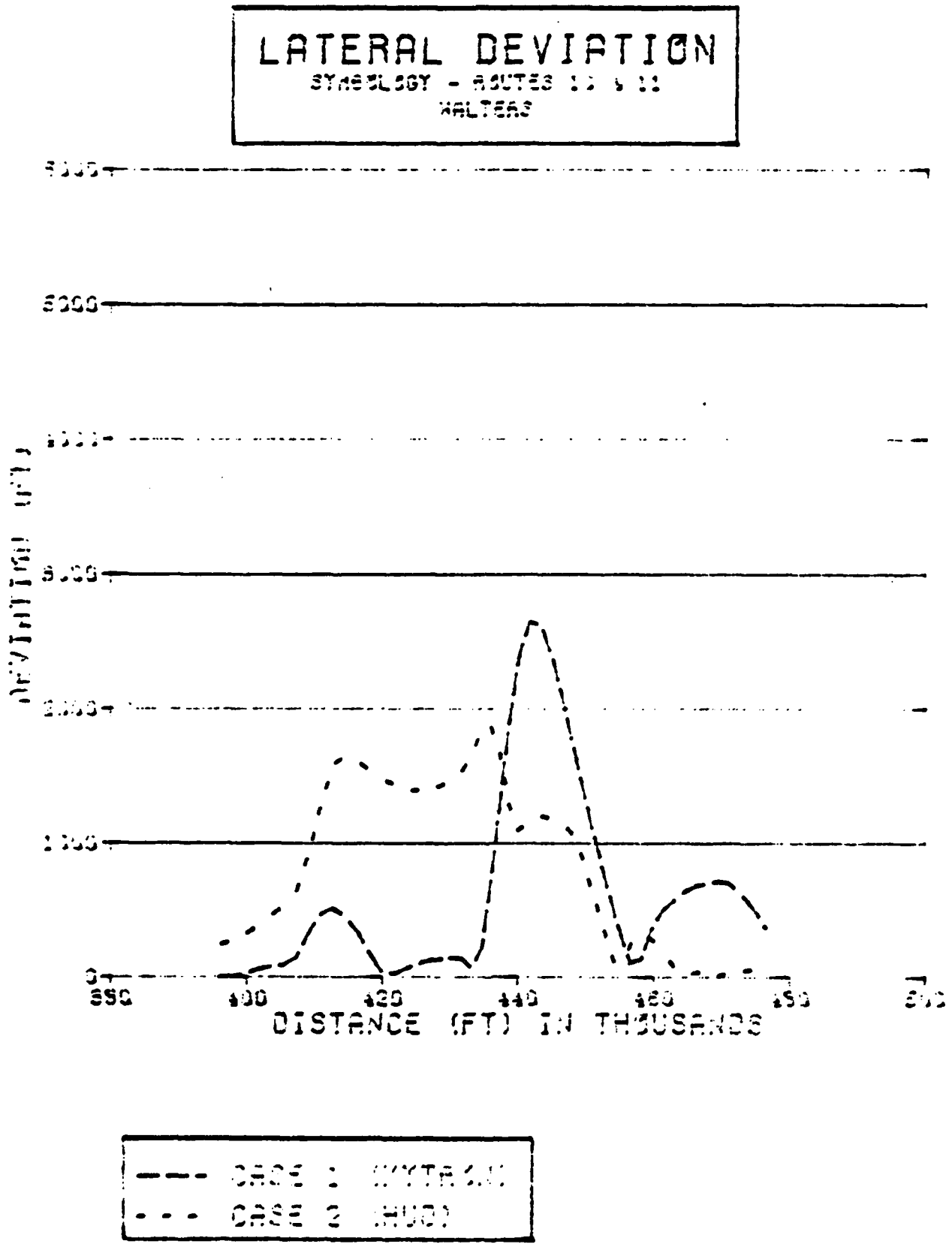

LATERAL DEVIATION
CFFD - NIAGARA 25A
WALTERS
DEVIATION (FT)
DISTANCE (FT) IN THOUSANDS
CASE 1 (HUD)
CASE 2 (HUD)

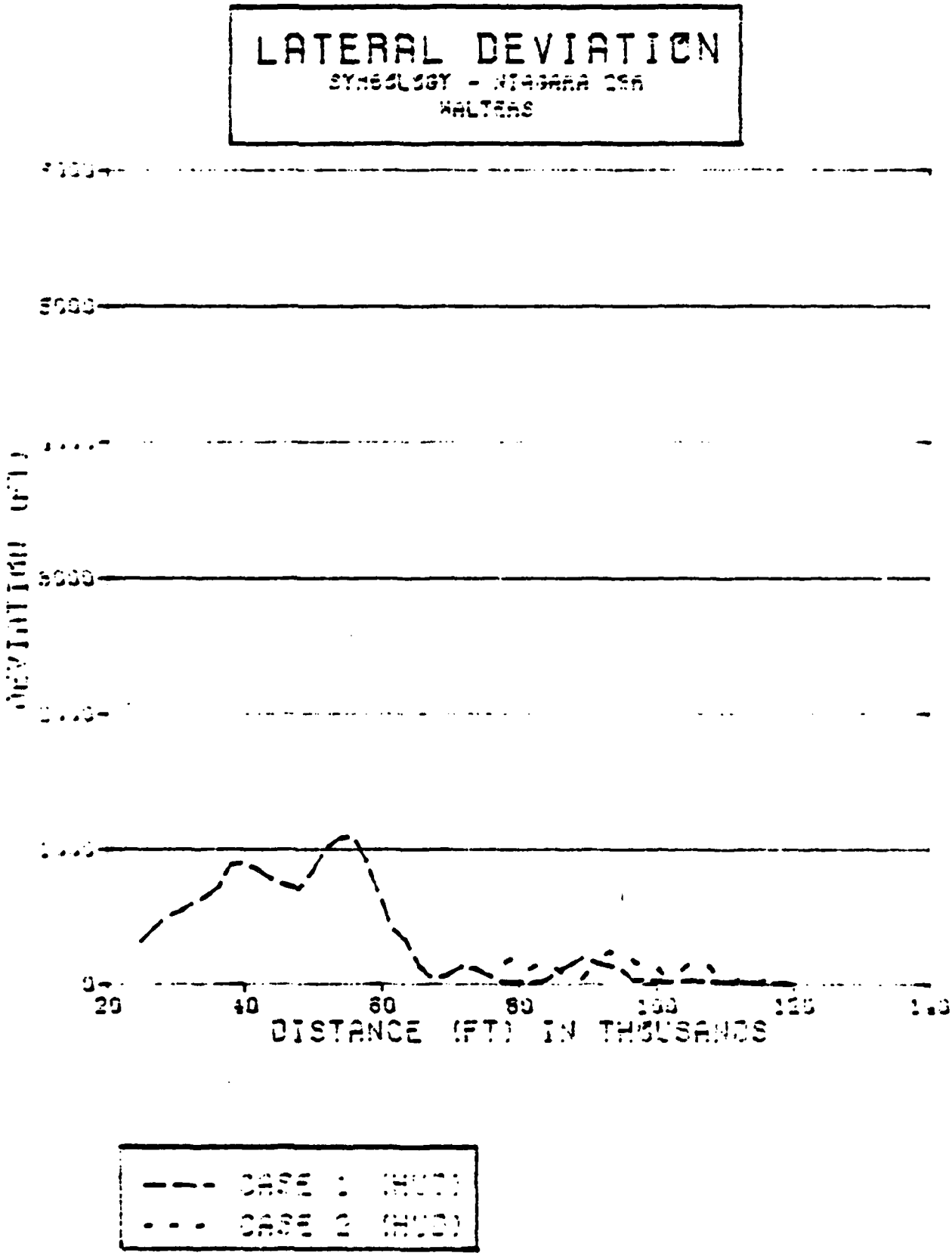

LATERAL DEVIATION
SYMBOLOGY - ROUTES 2 & 3
WALTERS
5000
3000
1000
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
CASE 1 (KYTRON)
CASE 2 (HUD)

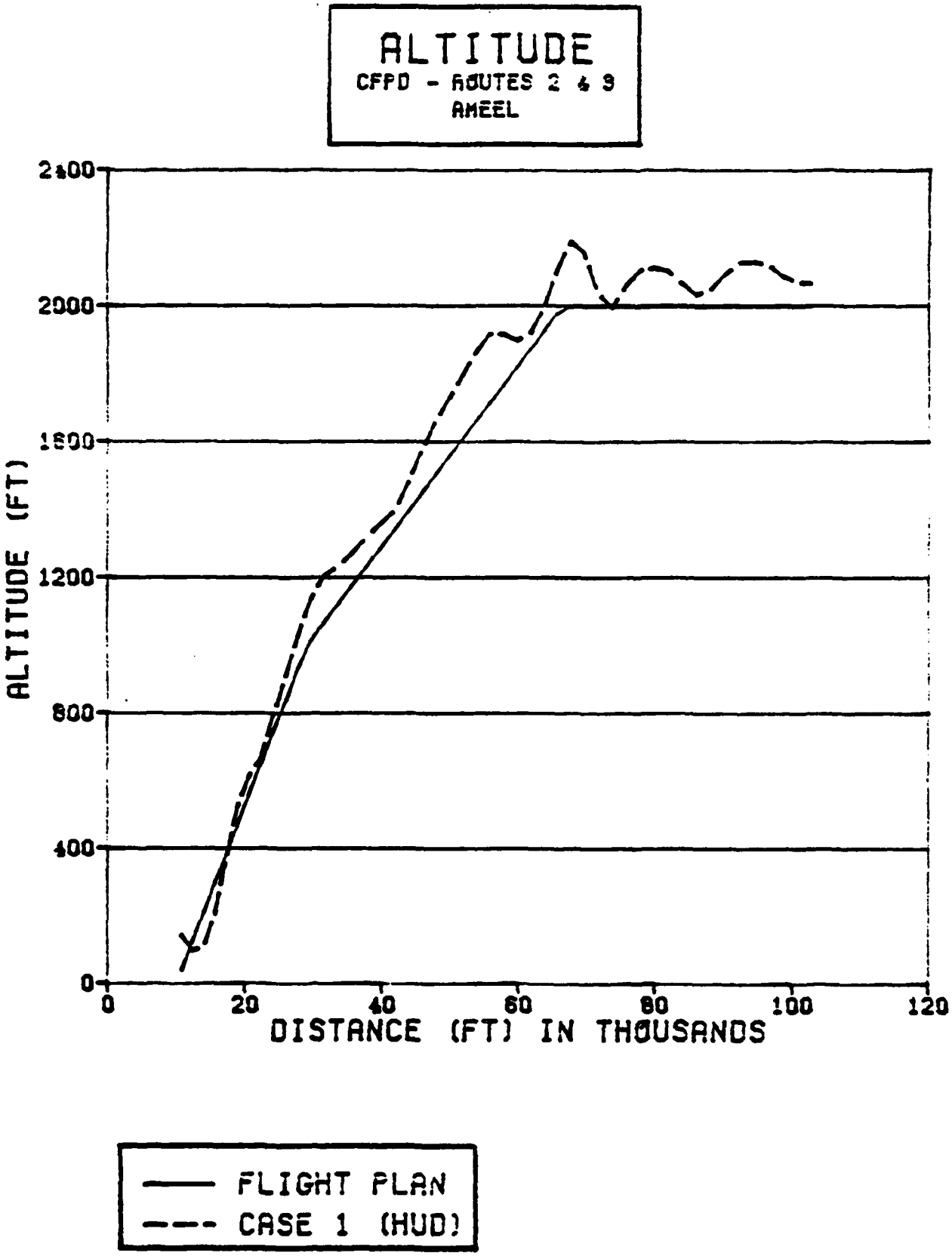

LATERAL DEVIATION
SYMBOLOGY - ROUTES 4 & 5
WALTERS
5000
3000
1000
0
90
120
150
180
210
240
DISTANCE (FT) IN THOUSANDS
CASE 1 (KYTRON)
CASE 2 (HUD)

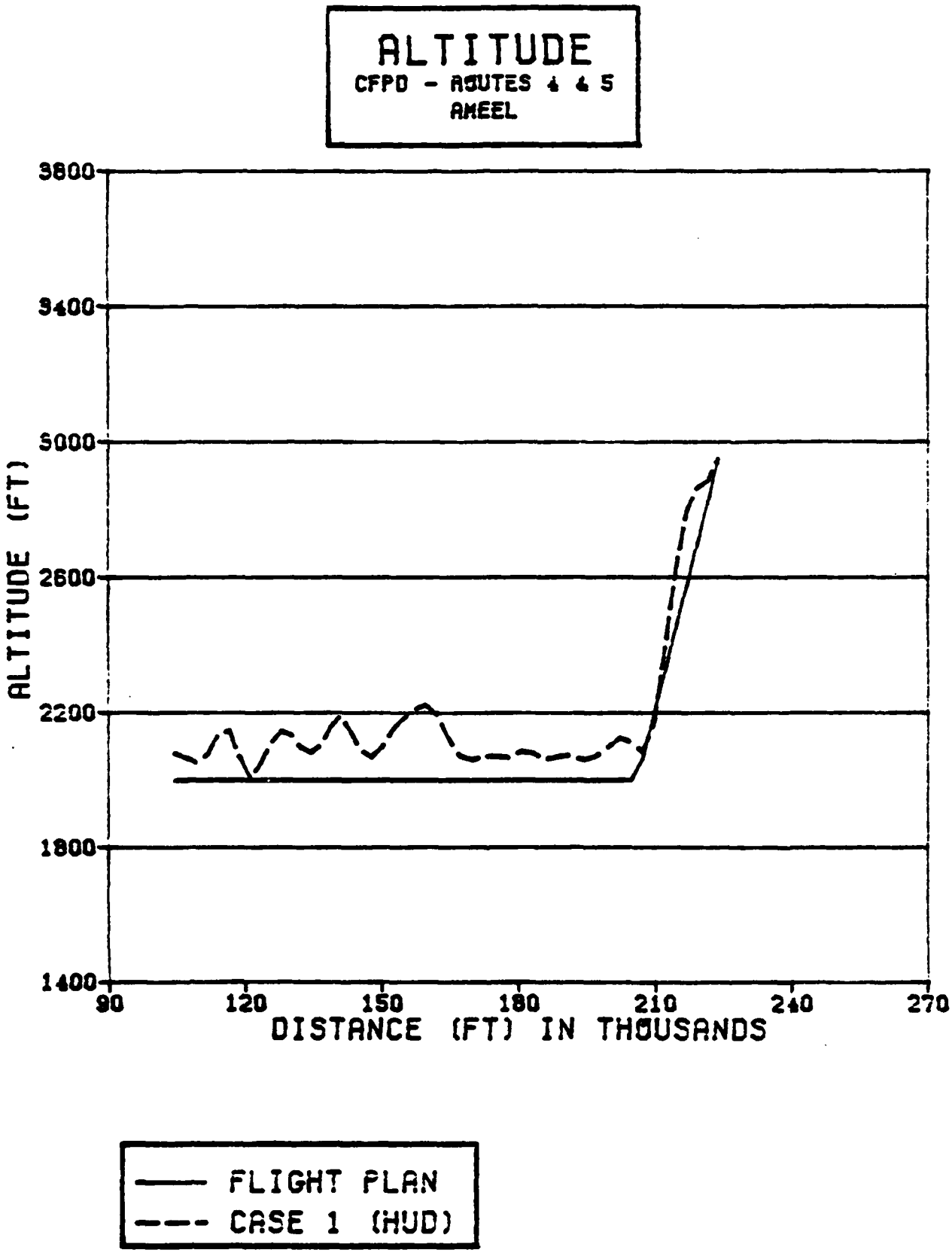

LATERAL DEVIATION
SYMBOLOGY - ROUTES 6 & 7
HALTERS
5000
3000
1000
0
220
240
260
280
320
DISTANCE (FT) IN THOUSANDS
CASE 1 (KYTRAN)
CASE 2 (HUD)

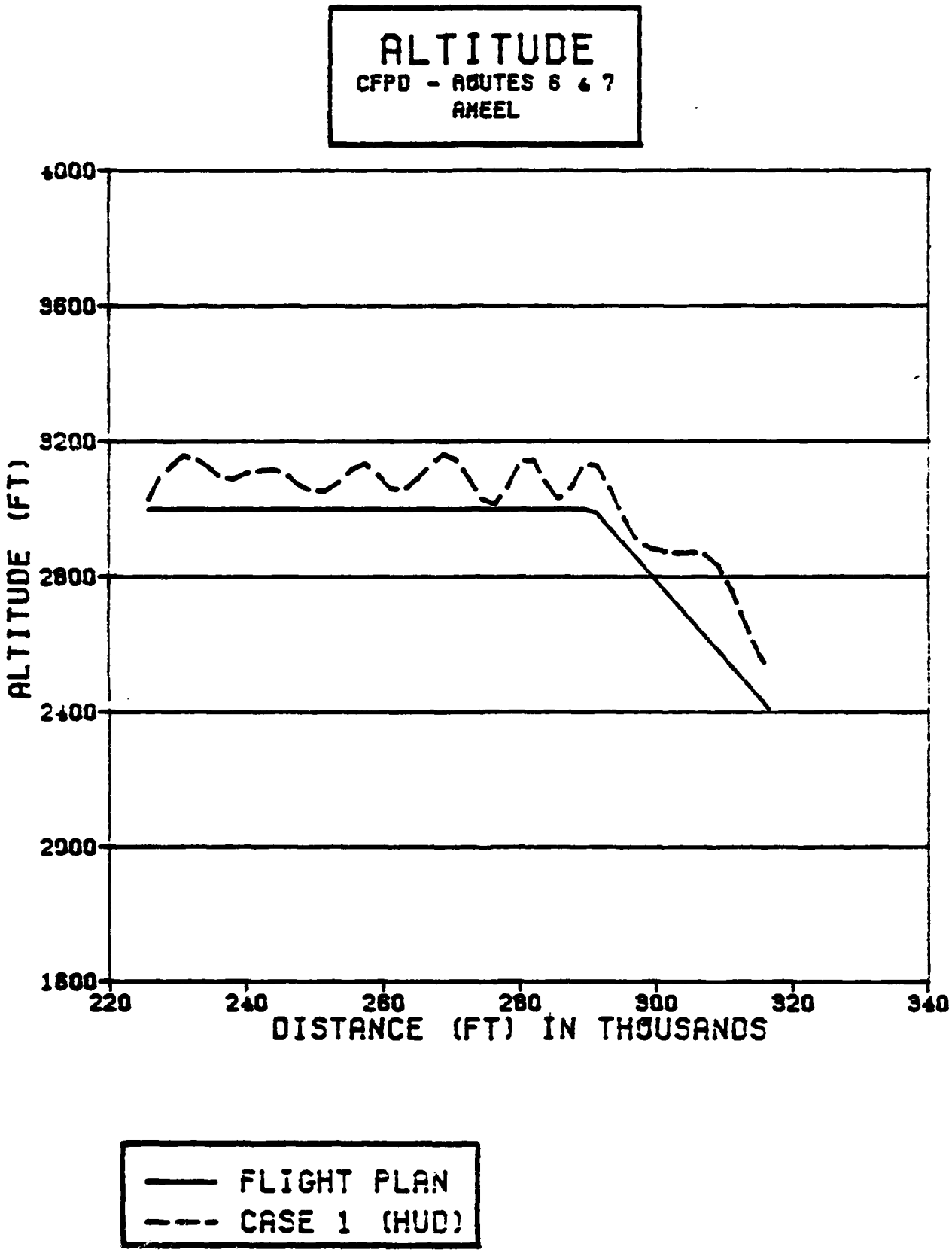

LATERAL DEVIATION
SYMBOLOGY - ROUTES 9 & 3
WALTERS
DEVIATION (FT)
5000
3000
1000
0
300
320
340
360
380
400
DISTANCE (FT) IN THOUSANDS
CASE 1 (KYTRON)
CASE 2 (HUD)

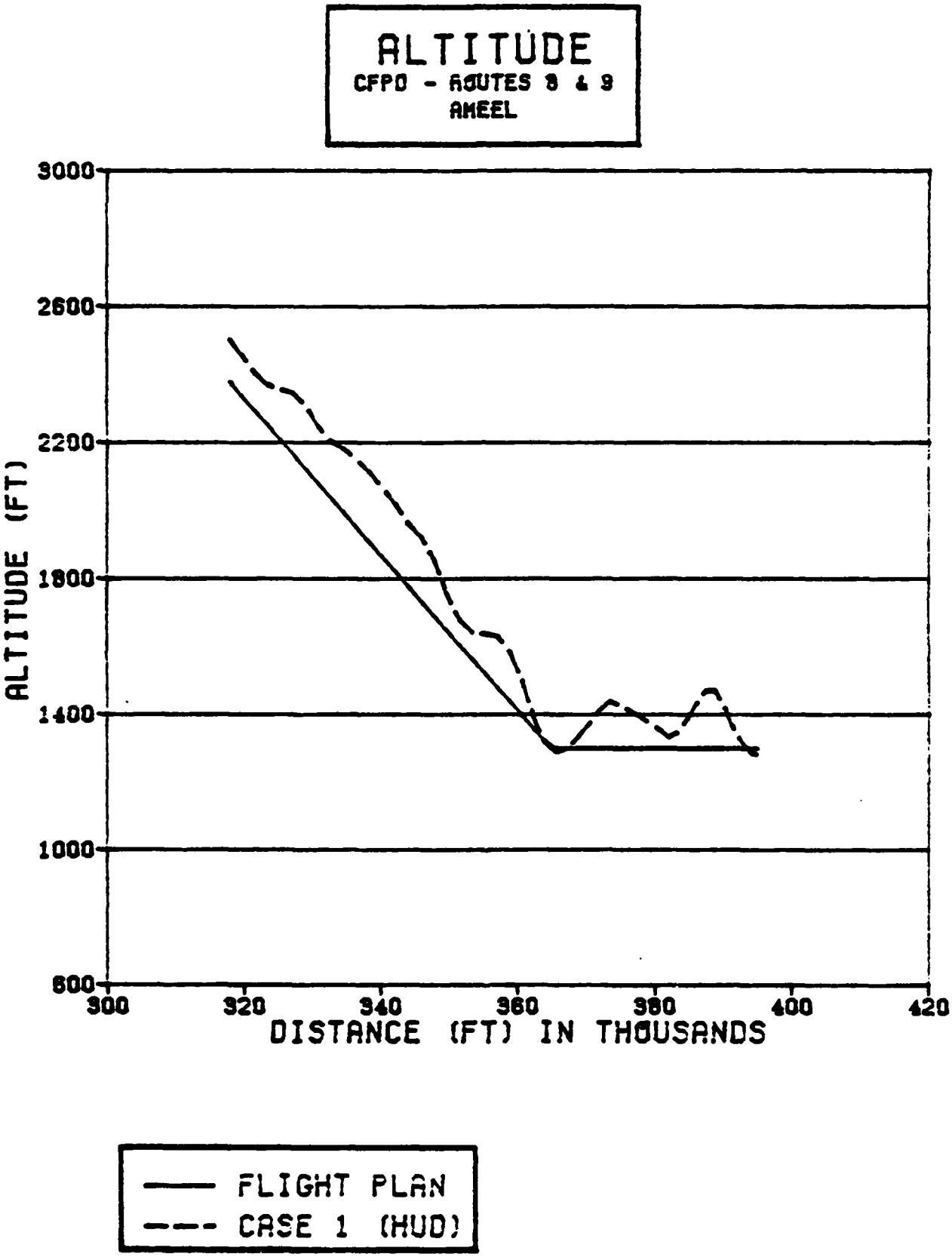

LATERAL DEVIATION
WALTERS
DISTANCE (FT) IN THOUSANDS
CASE 1
CASE 2

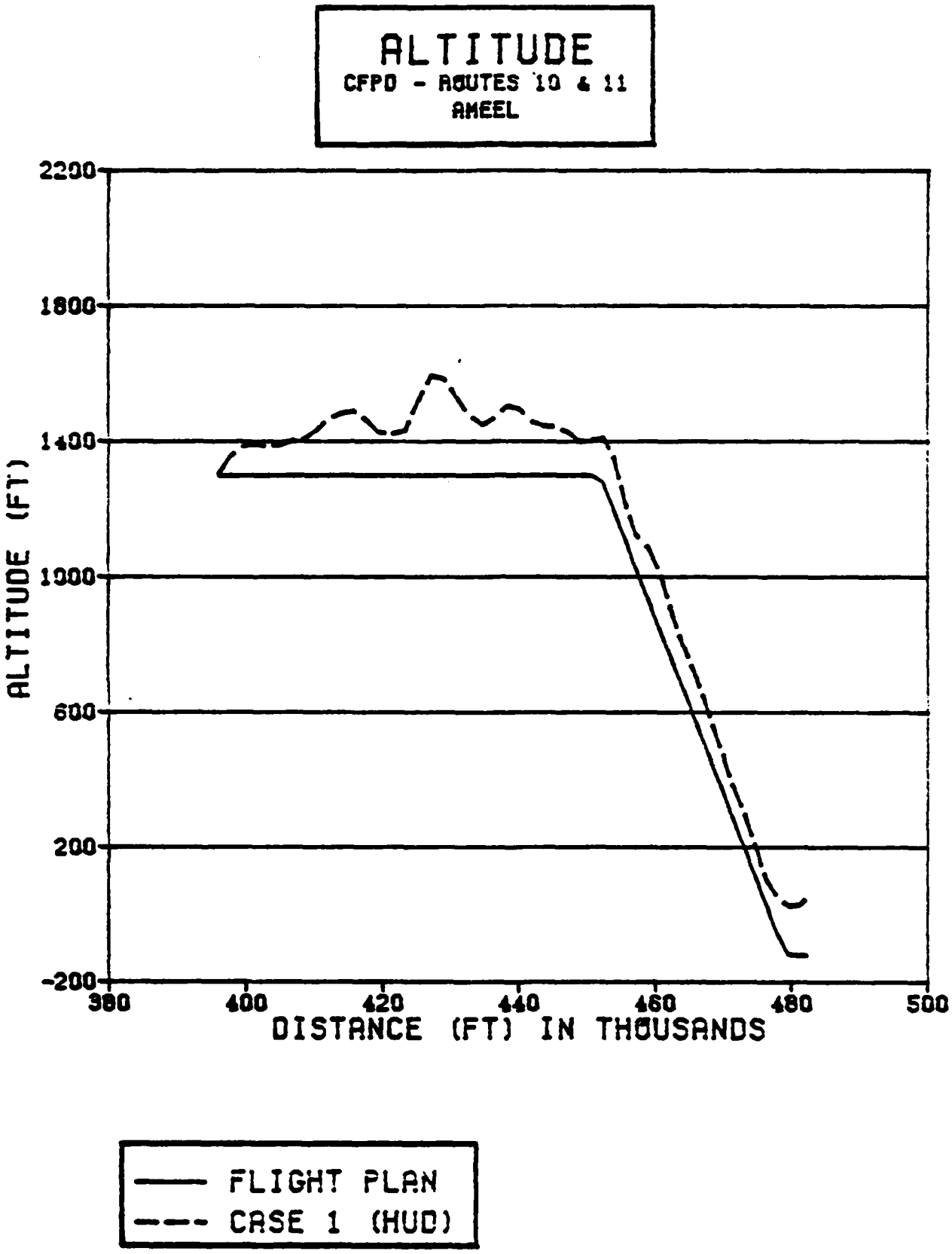

LATERAL DEVIATION
SYMBOLOGY - NIAGARA DSR
WALTERS
DEVIATION (FT)
0
20
40
60
80
100
120
140
DISTANCE (FT) IN THOUSANDS
CASE 1 (HUD)
CASE 2 (HUD)

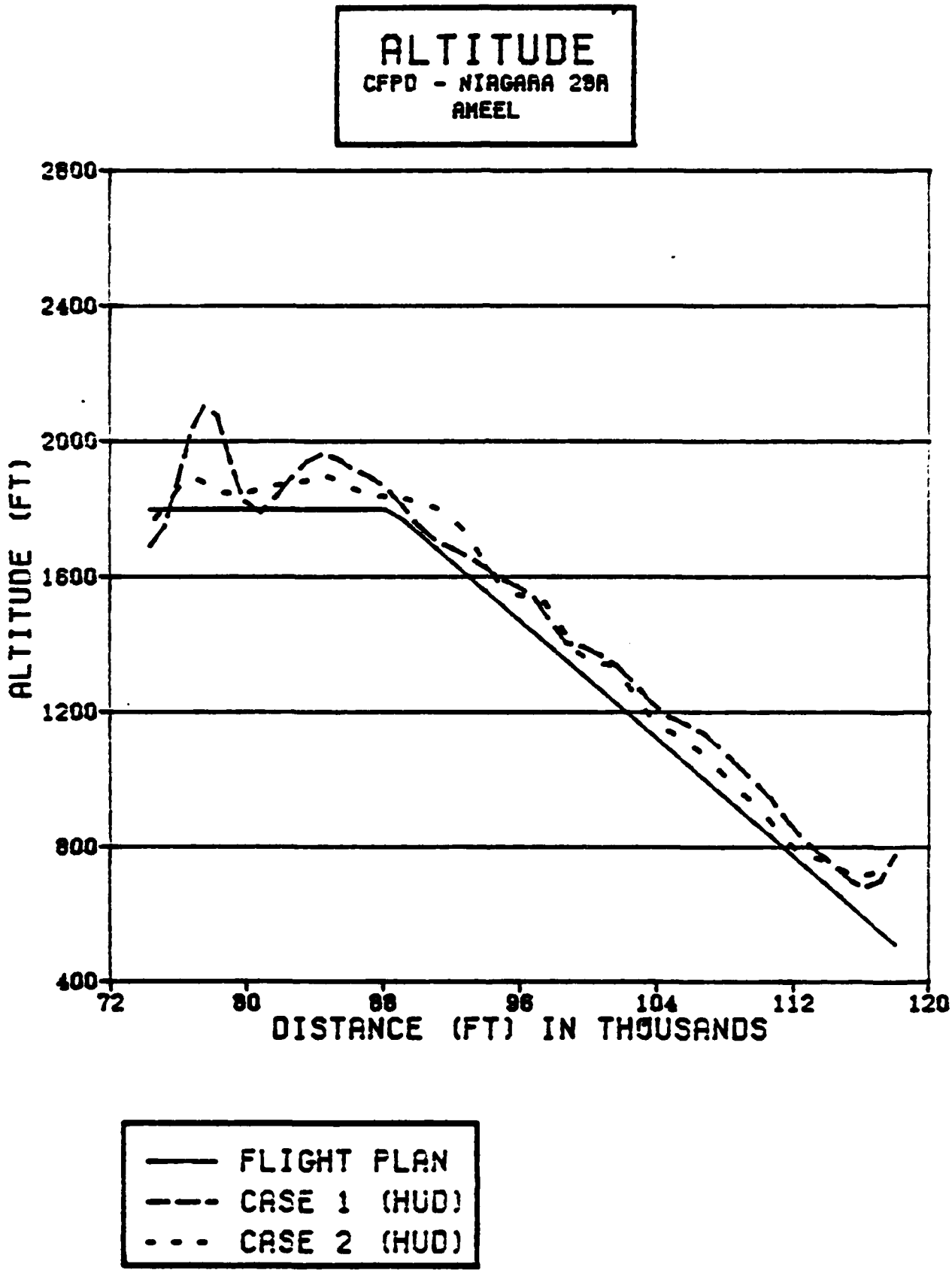

ALTITUDE
CFPD - ROUTES 2 & 9
AMEEL
2400
2000
1600
1200
800
400
0
ALTITUDE (FT)
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (HUD)

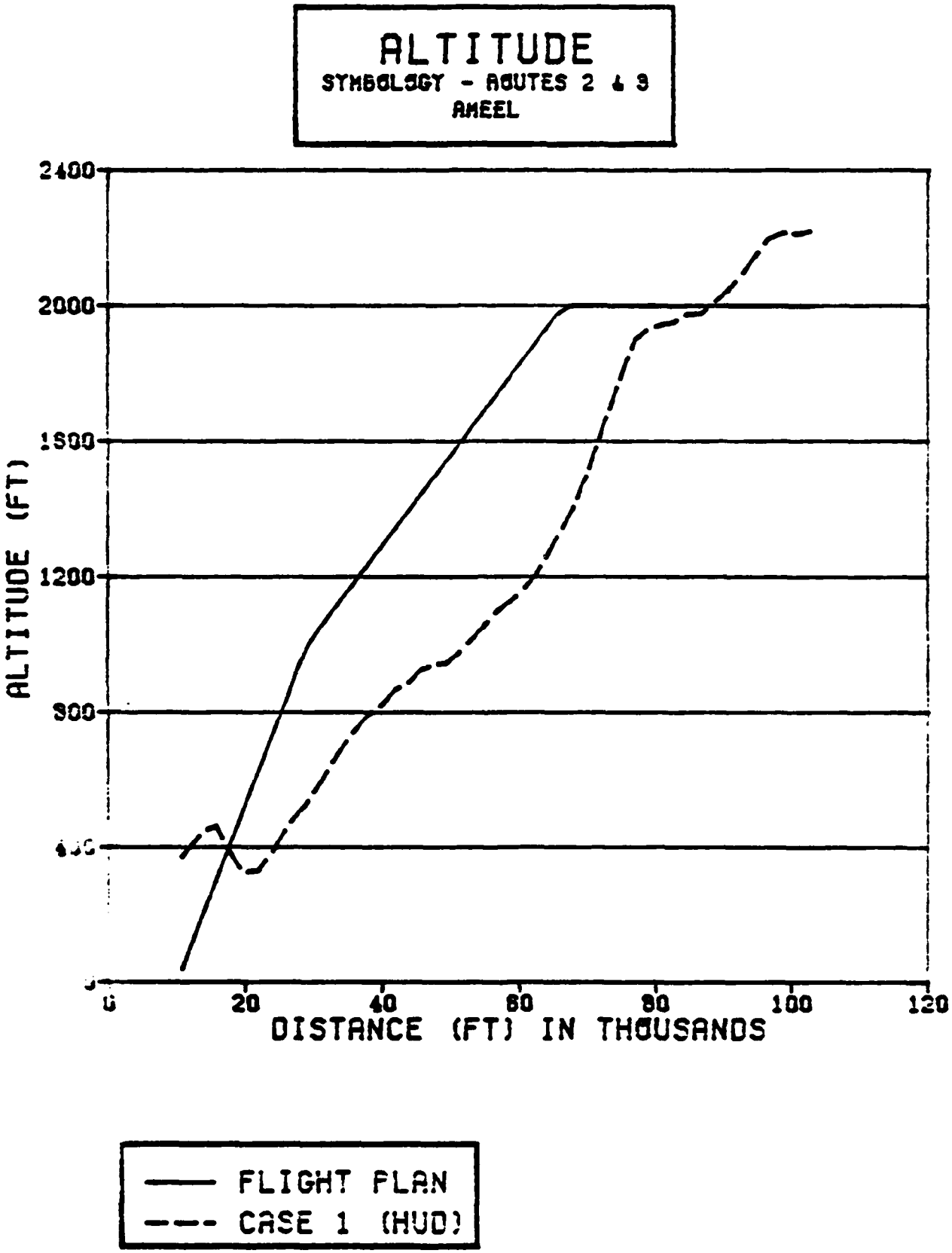

ALTITUDE
CFPD - ROUTES 4 & 5
AMEEL
3800
3400
3000
2600
2200
1800
1400
ALTITUDE (FT)
90
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (HUD)

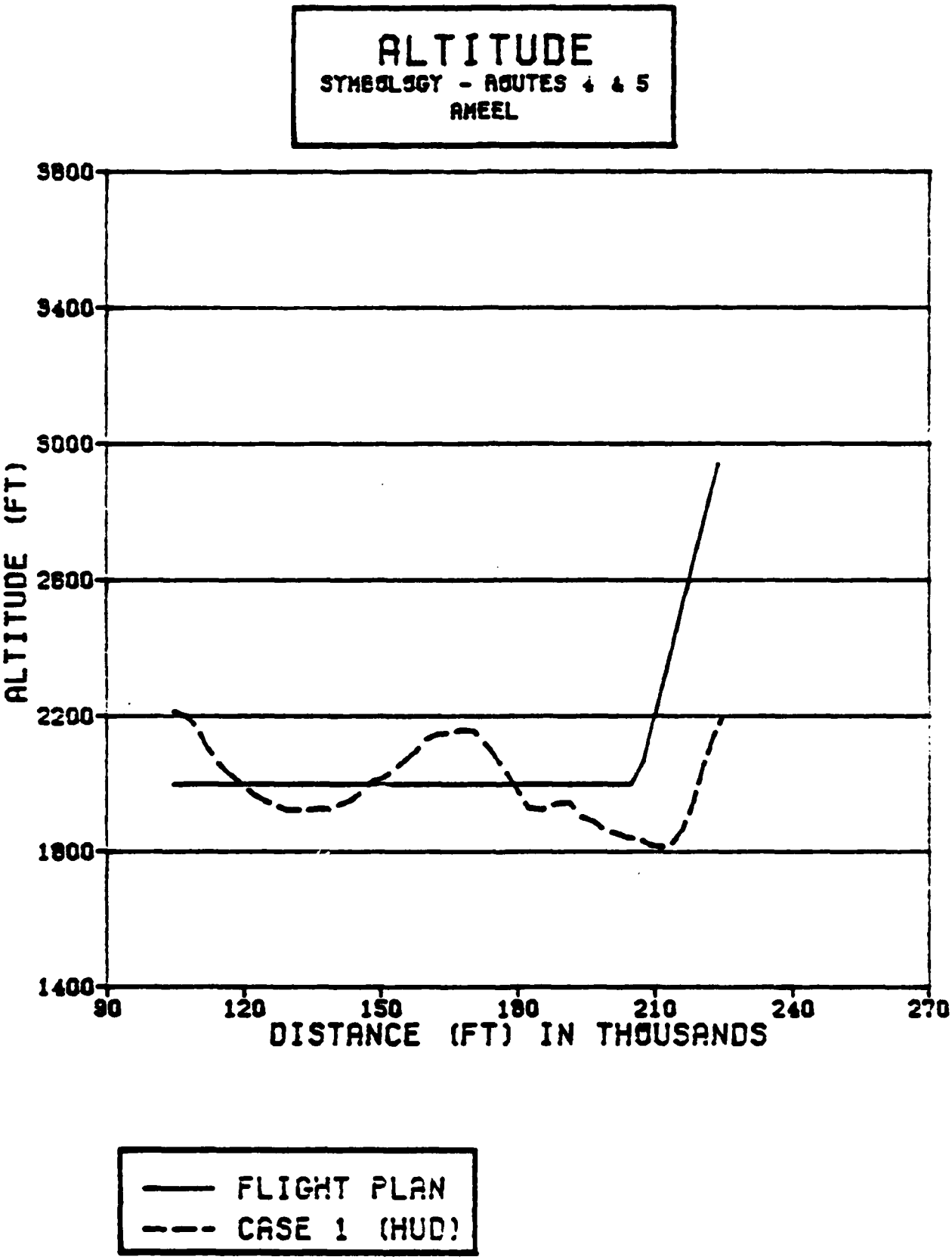

ALTITUDE
CFPD - ROUTES 6 & 7
AMEEL
4000
3600
3200
2800
2400
2000
1600
ALTITUDE (FT)
220
240
260
280
300
320
340
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (HUD)

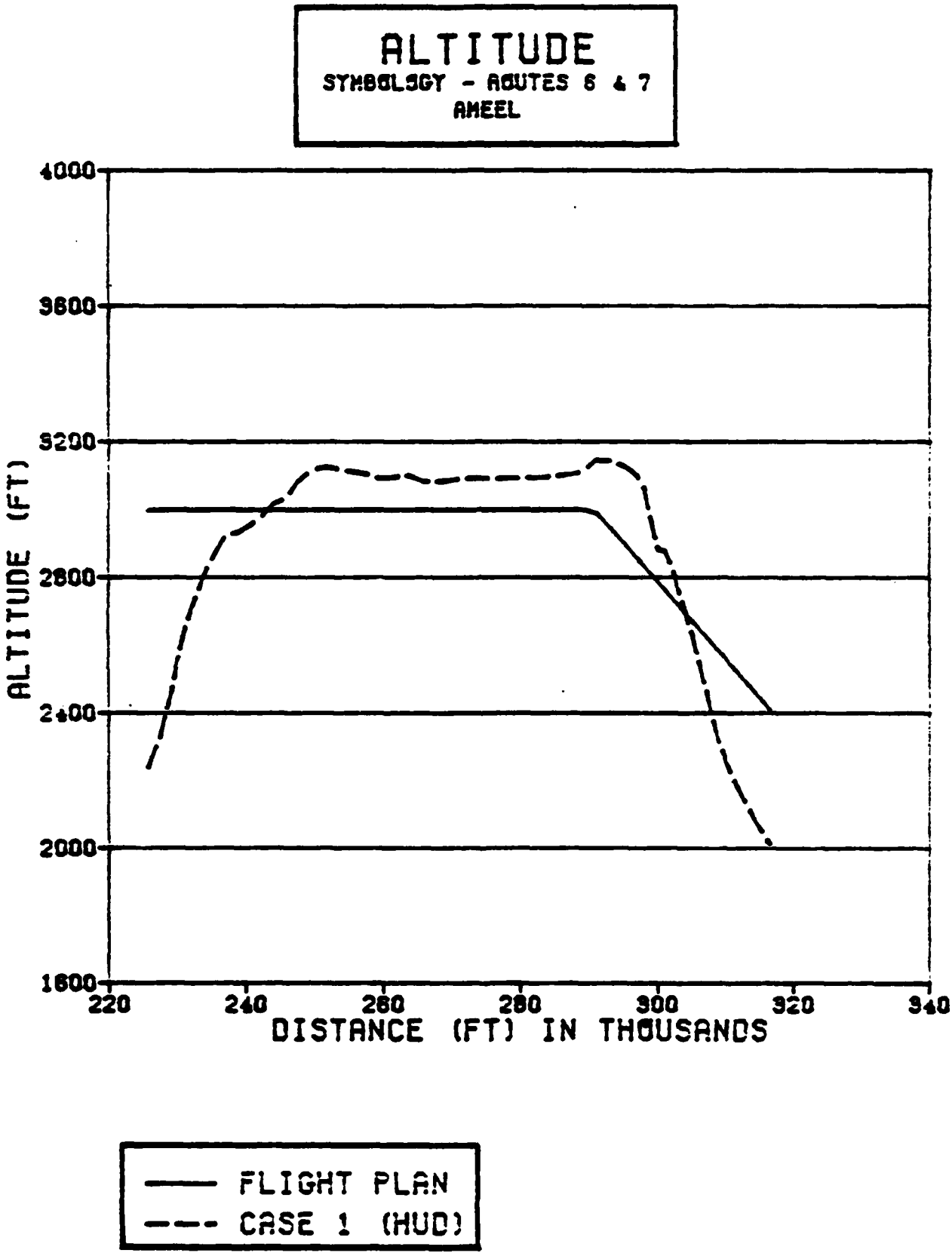

ALTITUDE
CFPO - ROUTES 8 & 9
AMEEL
3000
2600
2200
1800
1400
1000
600
ALTITUDE (FT)
300
320
340
360
380
400
420
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (HUD)

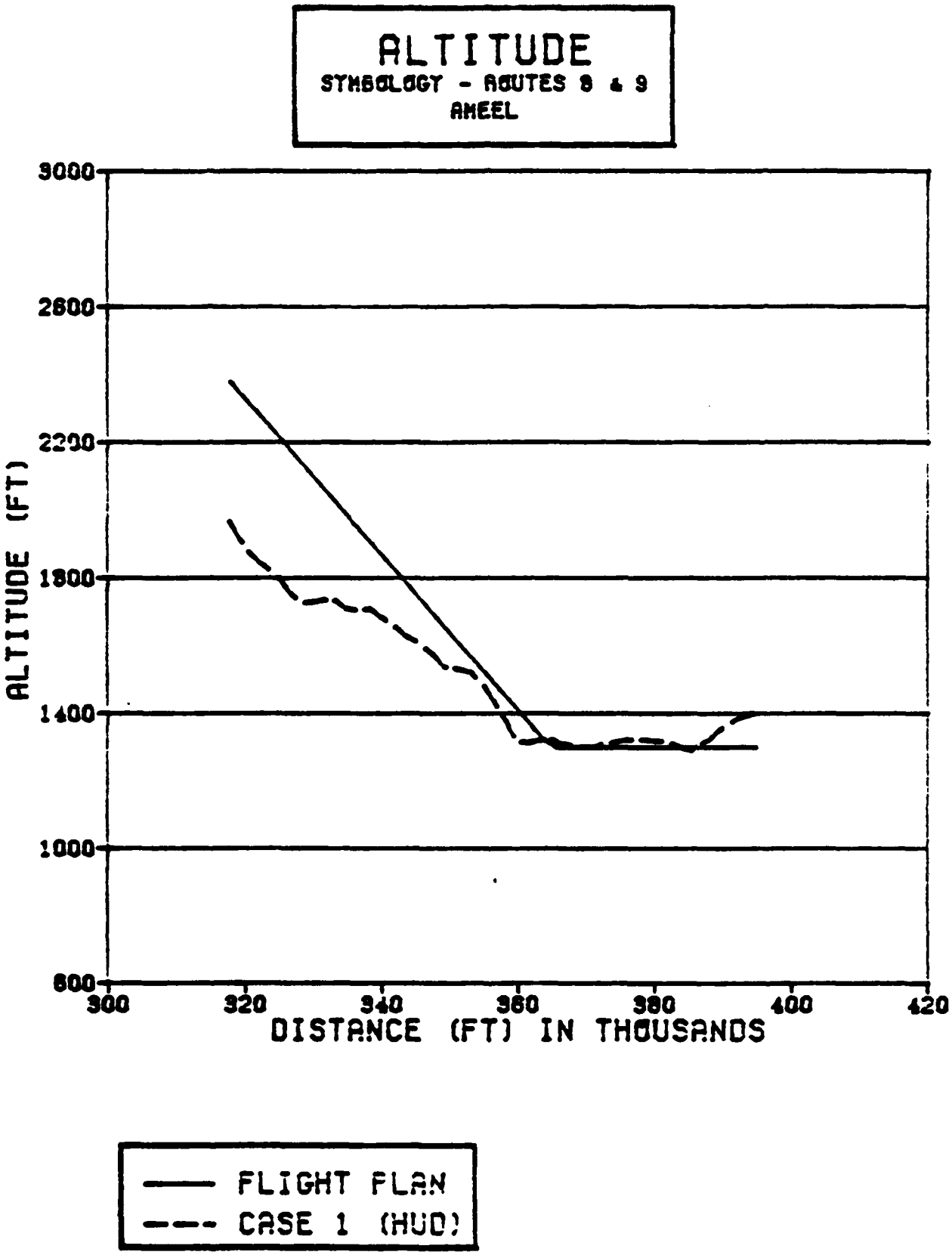

ALTITUDE
CFPD - ROUTES 10 & 11
AMEEL
2200
1800
1400
1000
600
200
-200
ALTITUDE (FT)
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (HUD)

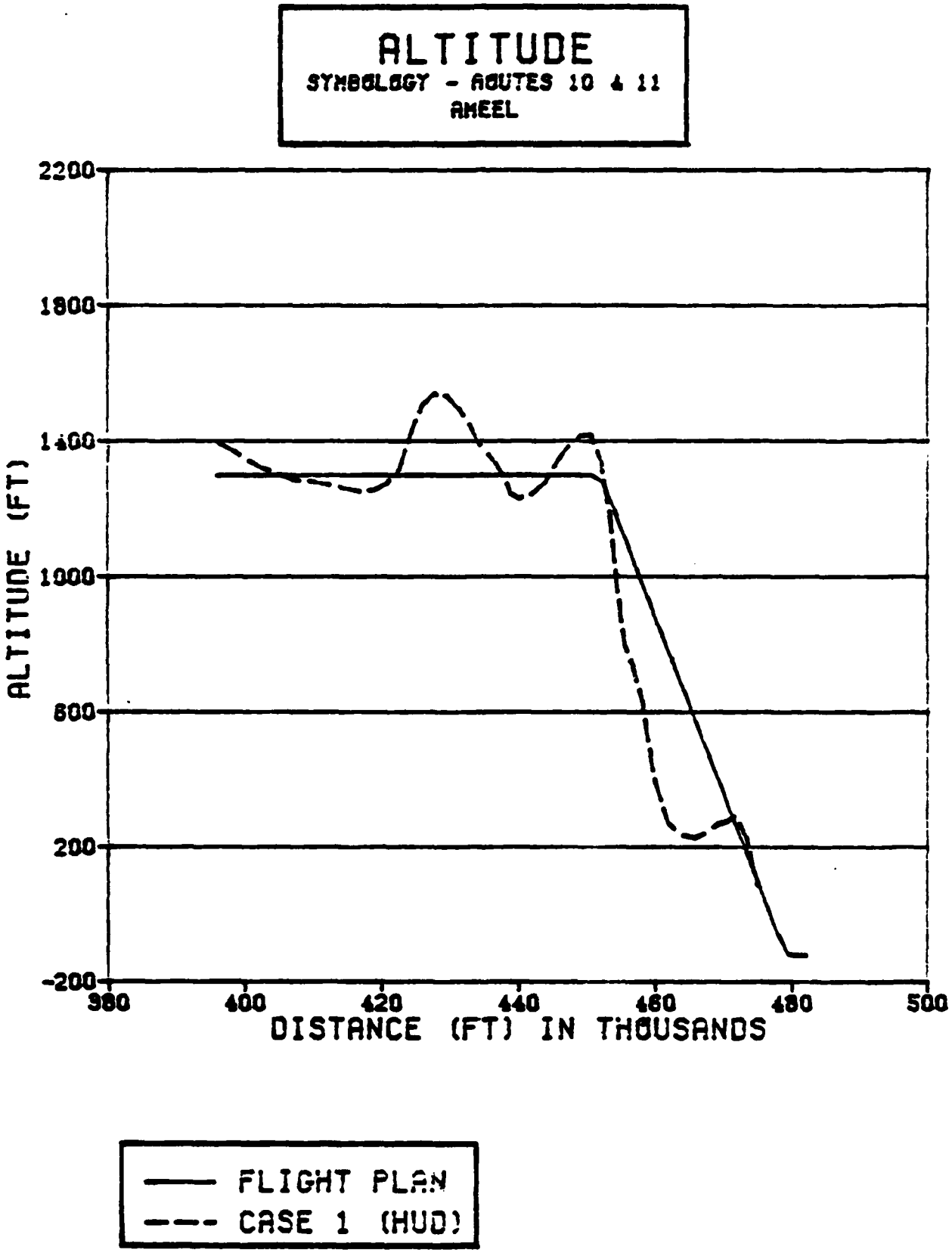

ALTITUDE
CFPD - NIAGARA 29A
AMEEL
2800
2400
2000
1600
1200
800
400
ALTITUDE (FT)
72
80
88
96
104
112
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (HUD)
CASE 2 (HUD)

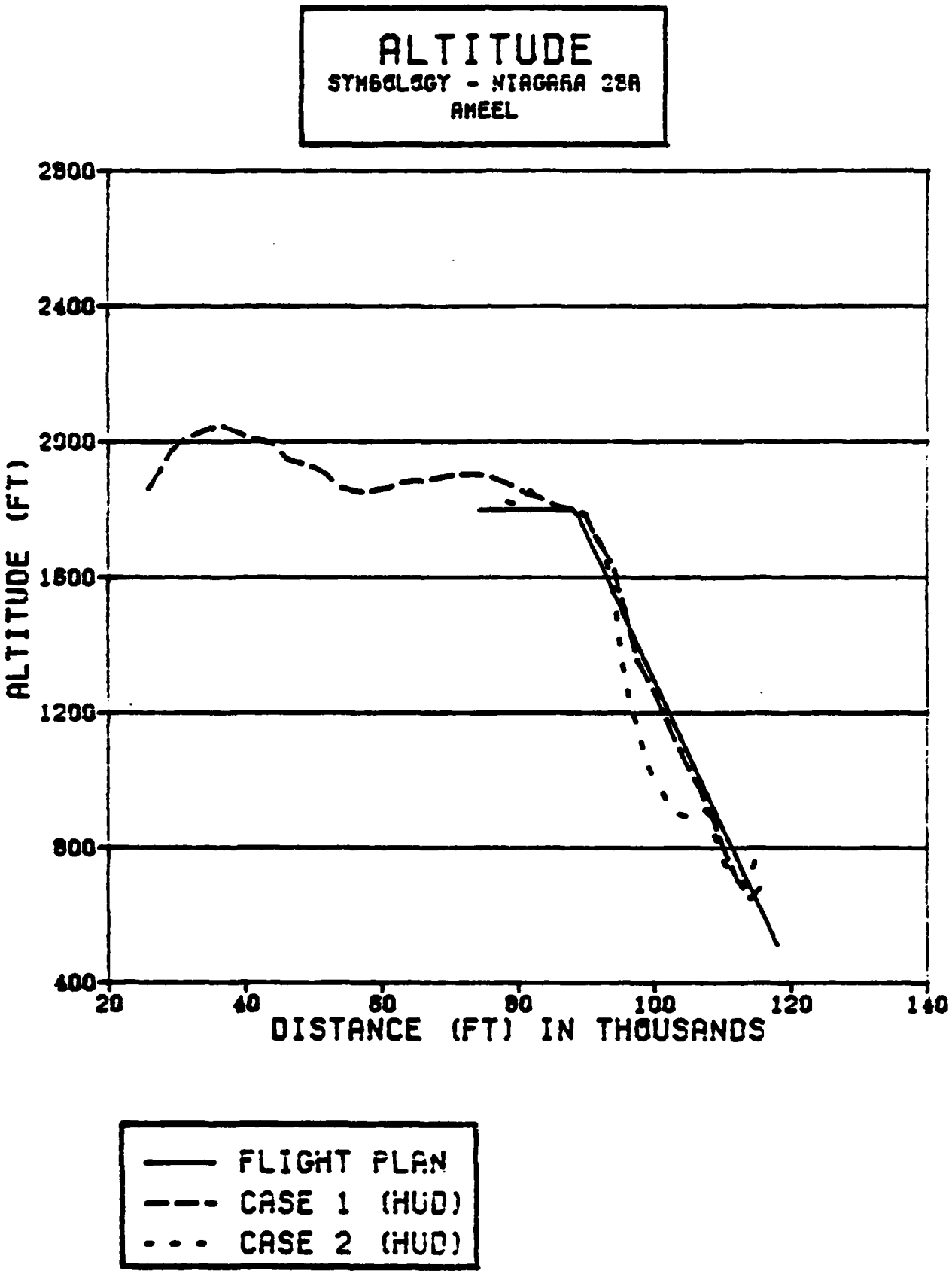

ALTITUDE
SYMBOLOGY - ROUTES 2 & 3
AMEEL
2400
2000
1600
1200
800
400
0
ALTITUDE (FT)
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (HUD)

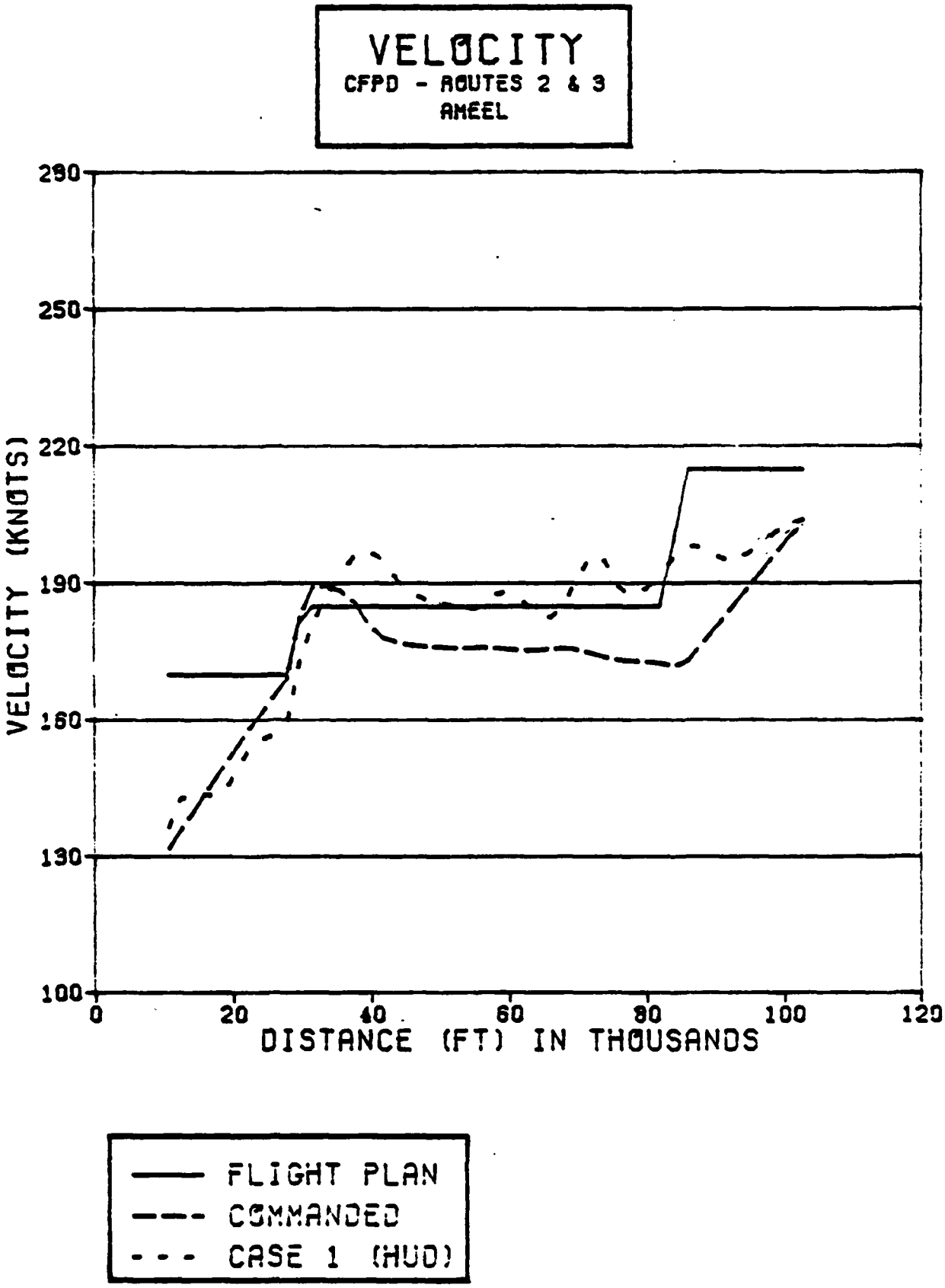

ALTITUDE
SYMBOLOGY - ROUTES 4 & 5
AMEEL
3800
3400
3000
2600
2200
1800
1400
ALTITUDE (FT)
90
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (HUD)

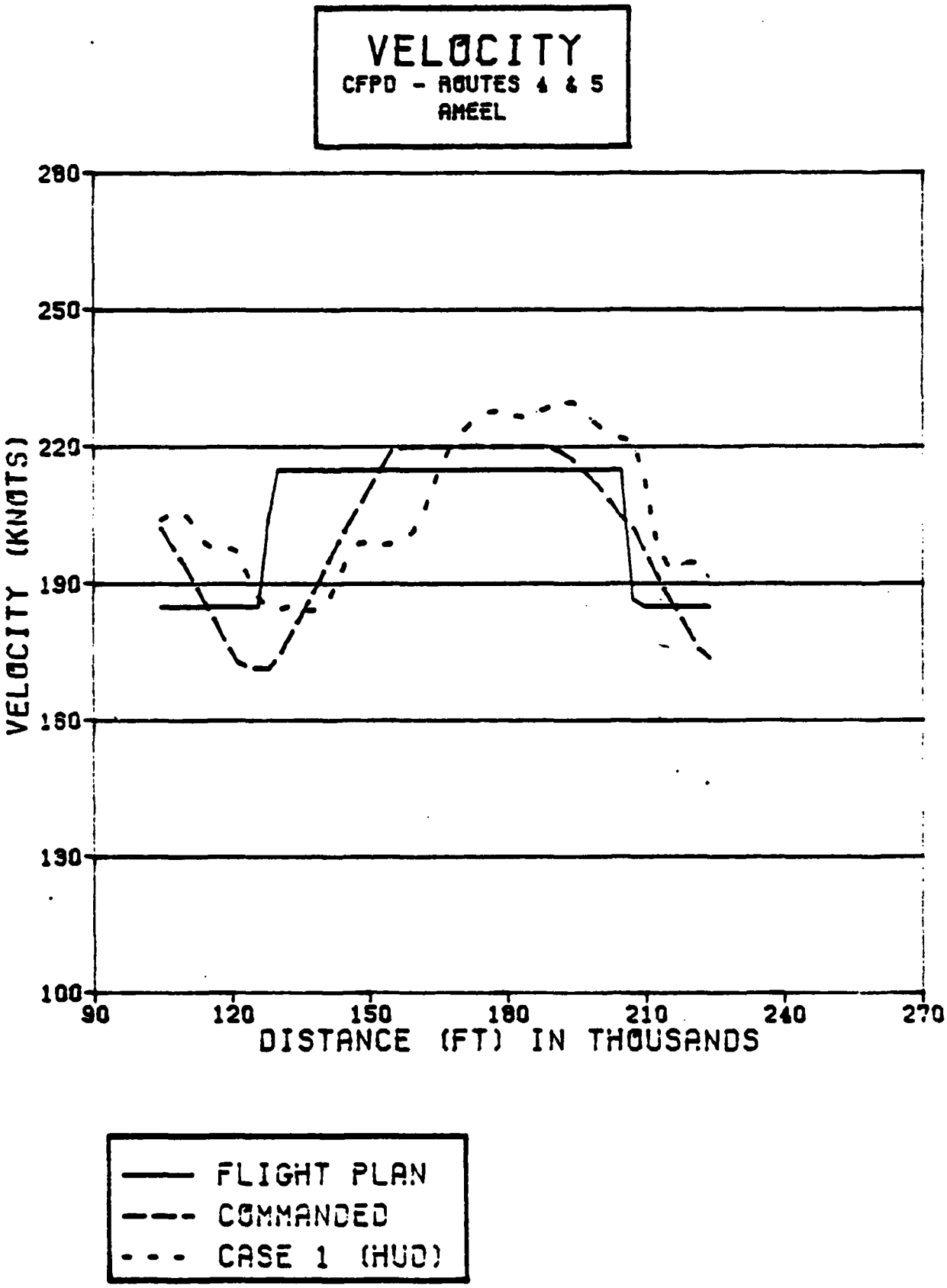

ALTITUDE
SYMBOLOGY - ROUTES 6 & 7
AMEEL
4000
3600
3200
2800
2400
2000
1600
ALTITUDE (FT)
220
240
260
280
300
320
340
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (HUD)

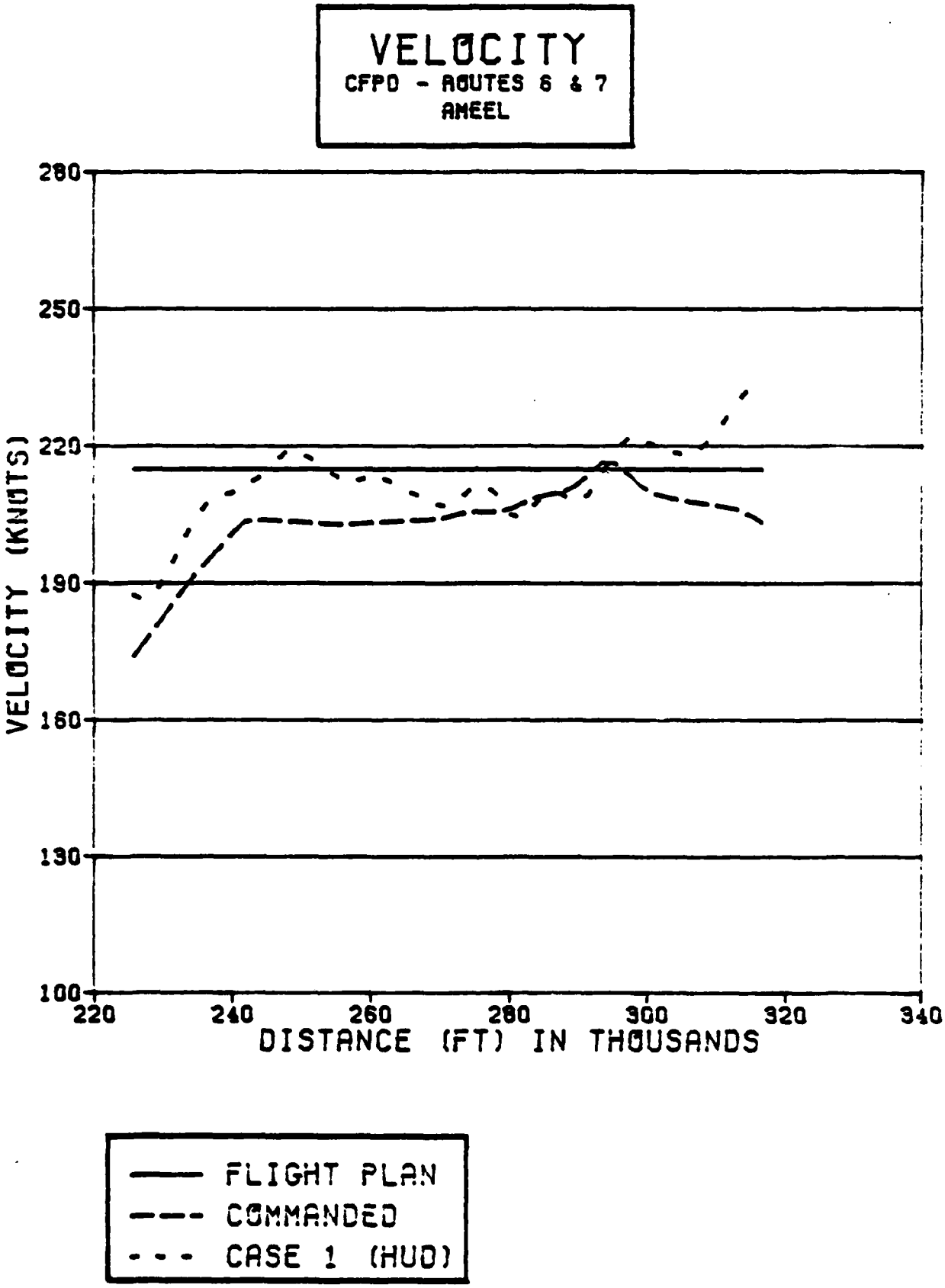

ALTITUDE
SYMBOLOGY - ROUTES 8 & 9
AHEEL
3000
2600
2200
1800
1400
1000
600
ALTITUDE (FT)
300
320
340
360
380
400
420
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (HUD)

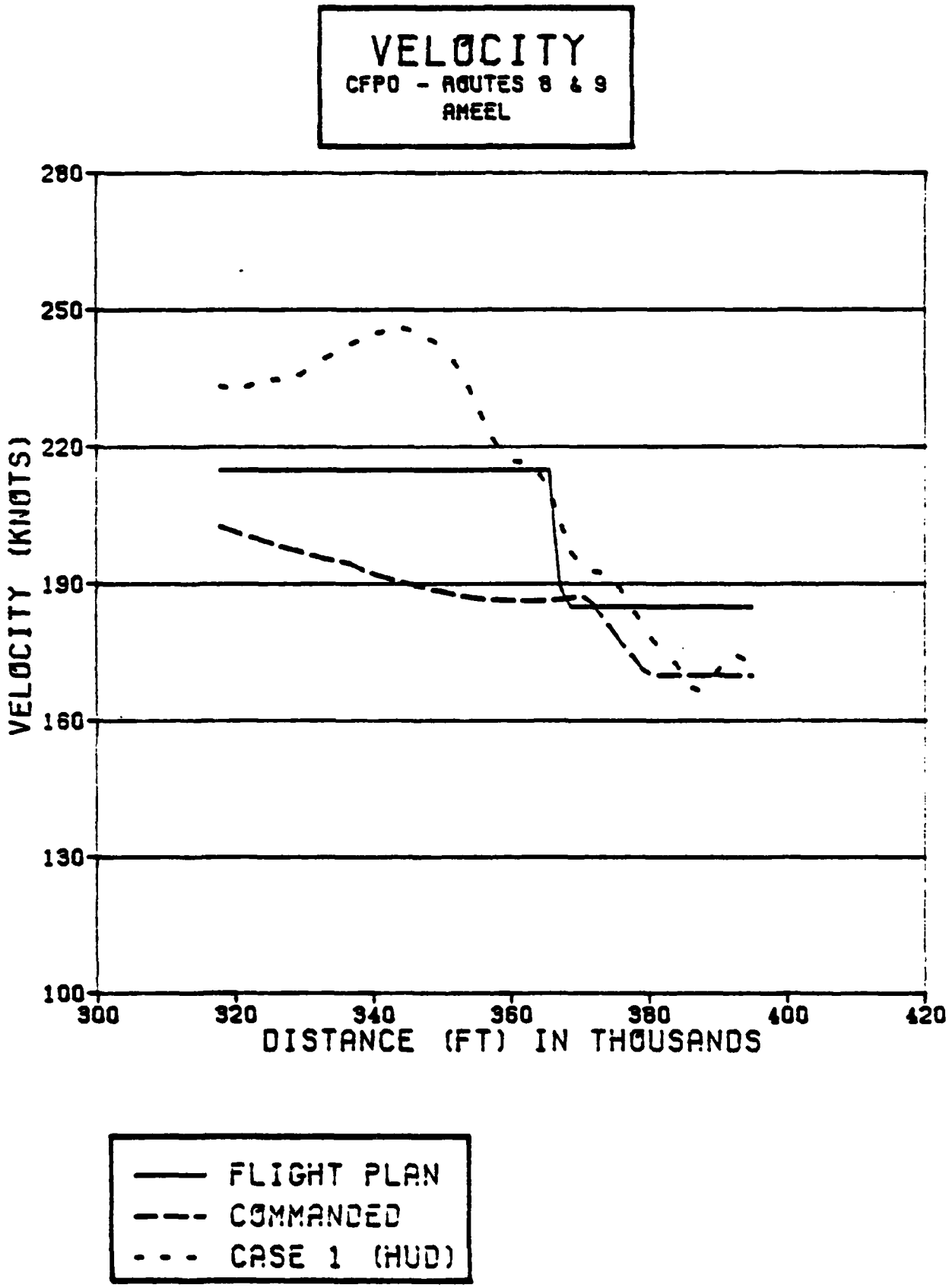

ALTITUDE
SYMBOLOGY - ROUTES 10 & 11
AMEEL
2200
1800
1400
1000
600
200
-200
ALTITUDE (FT)
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (HUD)

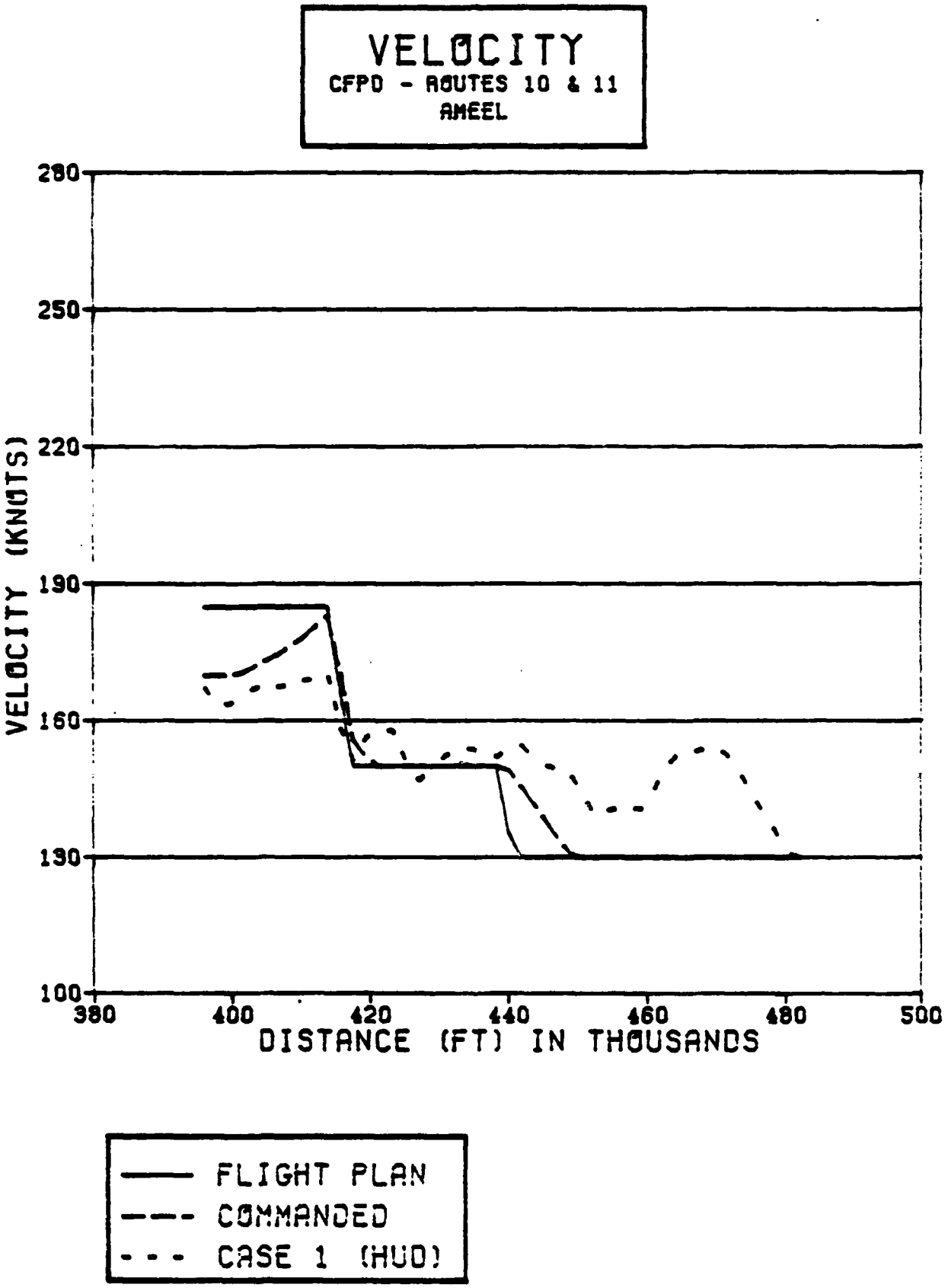

ALTITUDE
SYMBOLOGY - NIAGARA 28R
AMEEL
2800
2400
2000
1600
1200
800
400
ALTITUDE (FT)
20
40
60
80
100
120
140
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (HUD)
CASE 2 (HUD)

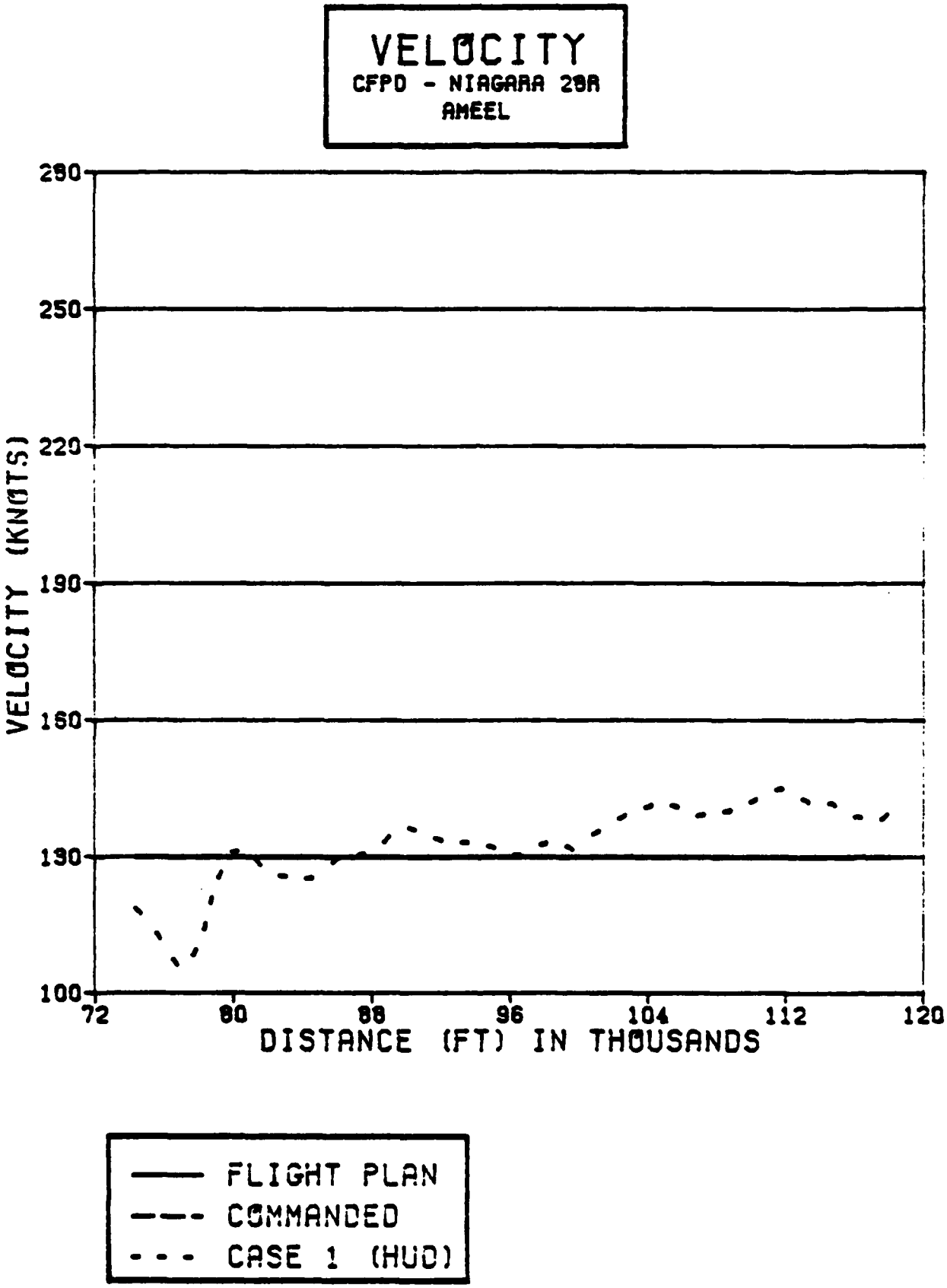

VELOCITY
CFPD - ROUTES 2 & 3
AMEEL
VELOCITY (KNOTS)
280
250
220
190
160
130
100
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 1 (HUD)

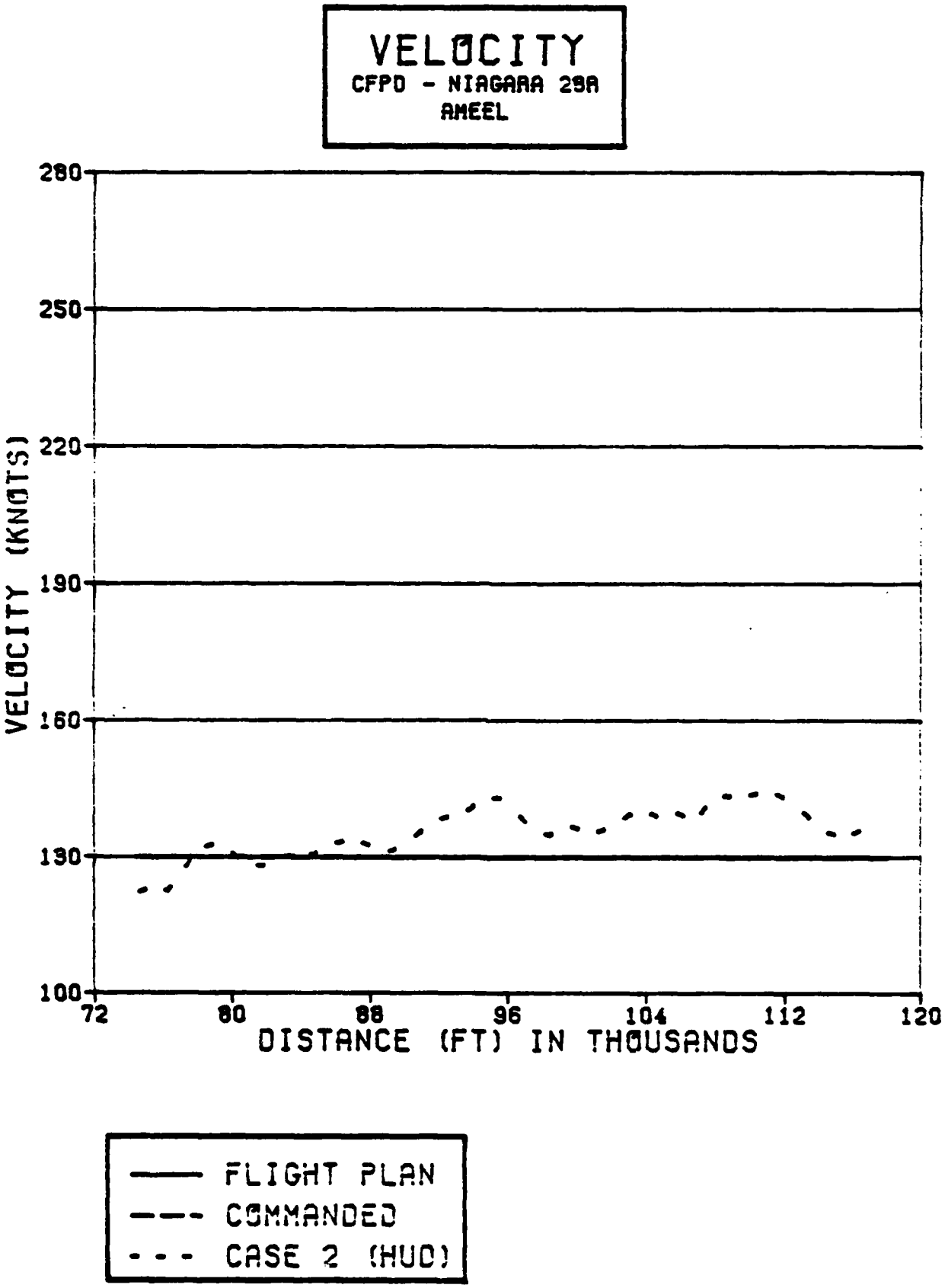

VELOCITY
CFPD - ROUTES 4 & 5
AMEEL
280
250
220
190
160
130
100
VELOCITY (KNOTS)
90
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 1 (HUD)

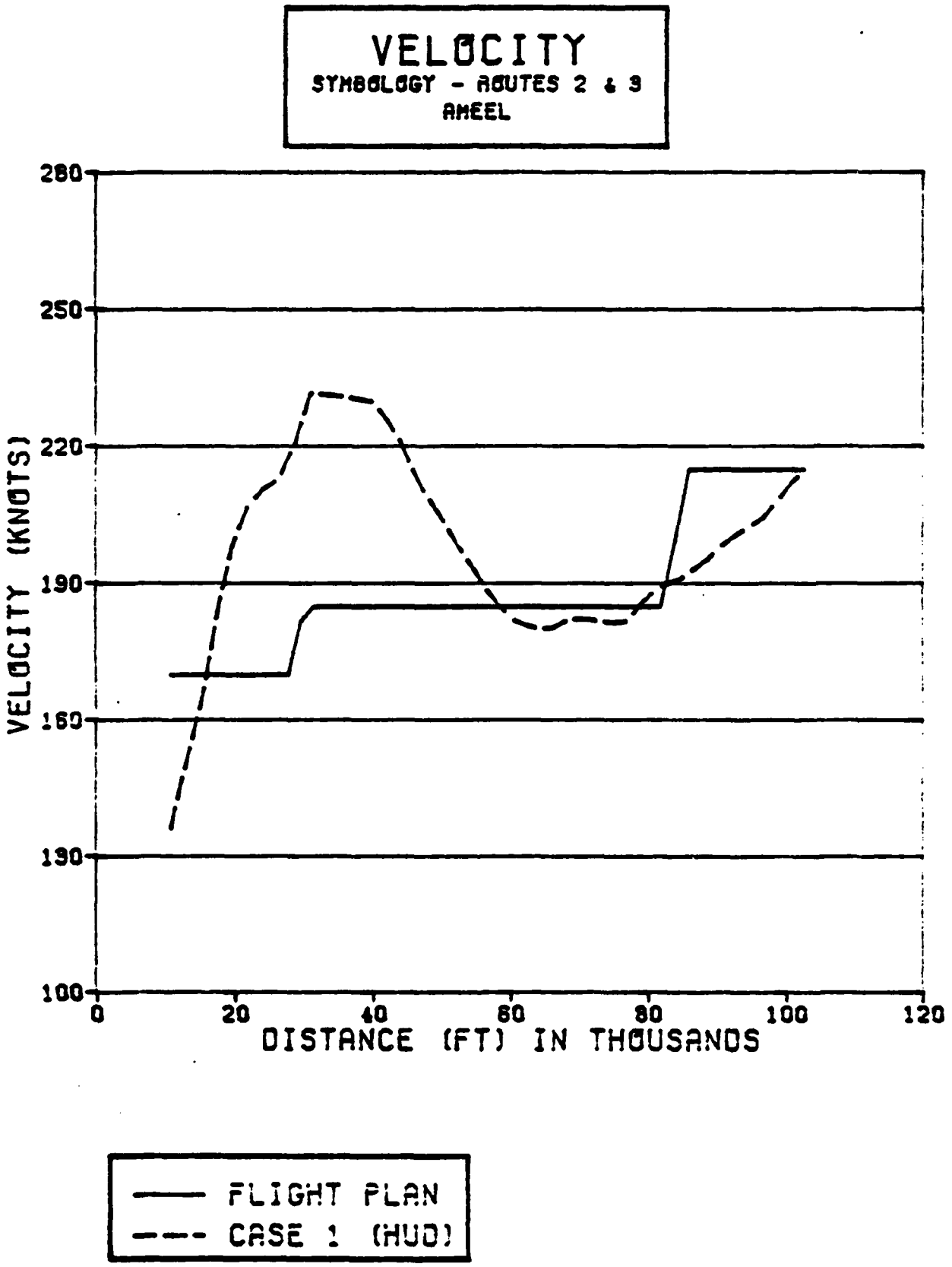

VELOCITY
CFPD - ROUTES 6 & 7
AMEEL
280
250
220
190
160
130
100
VELOCITY (KNOTS)
220
240
260
280
300
320
340
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 1 (HUD)

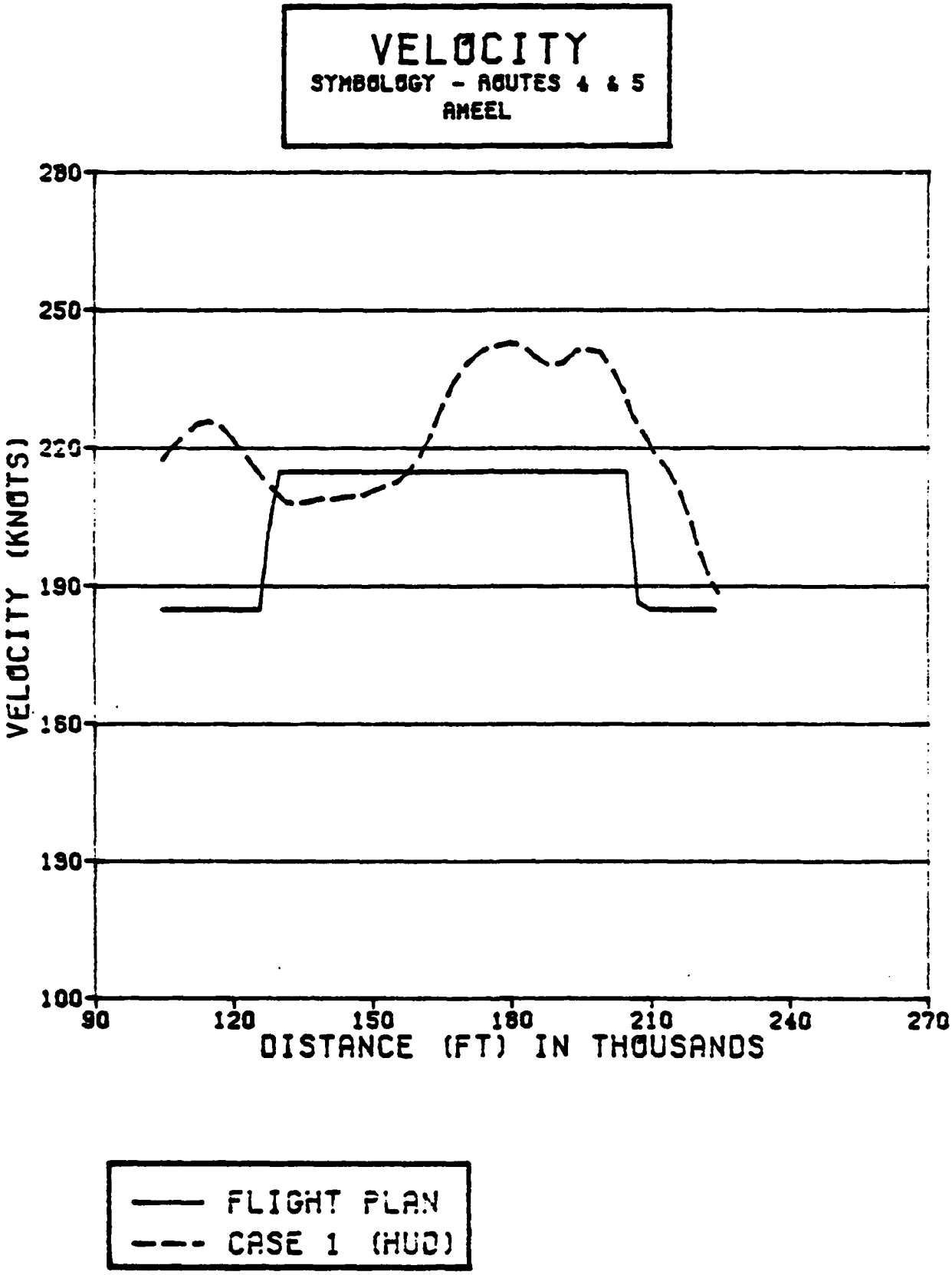

VELOCITY
CFPO - ROUTES 8 & 9
AMEEL
280
250
220
190
160
130
100
VELOCITY (KNOTS)
300
320
340
360
380
400
420
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 1 (HUD)

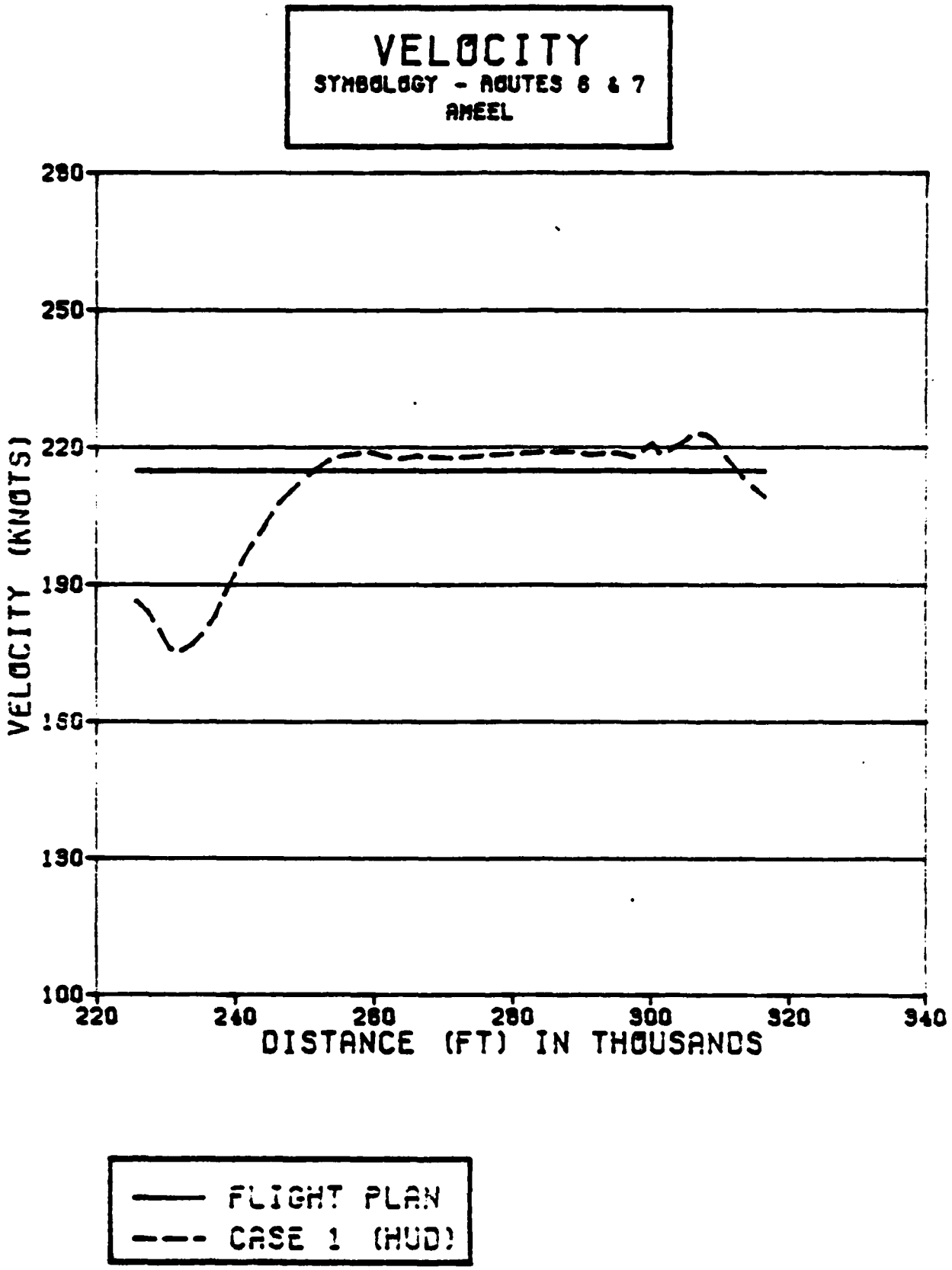

VELOCITY
CFPD - ROUTES 10 & 11
AMEEL
280
250
220
190
160
130
100
VELOCITY (KNOTS)
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 1 (HUD)

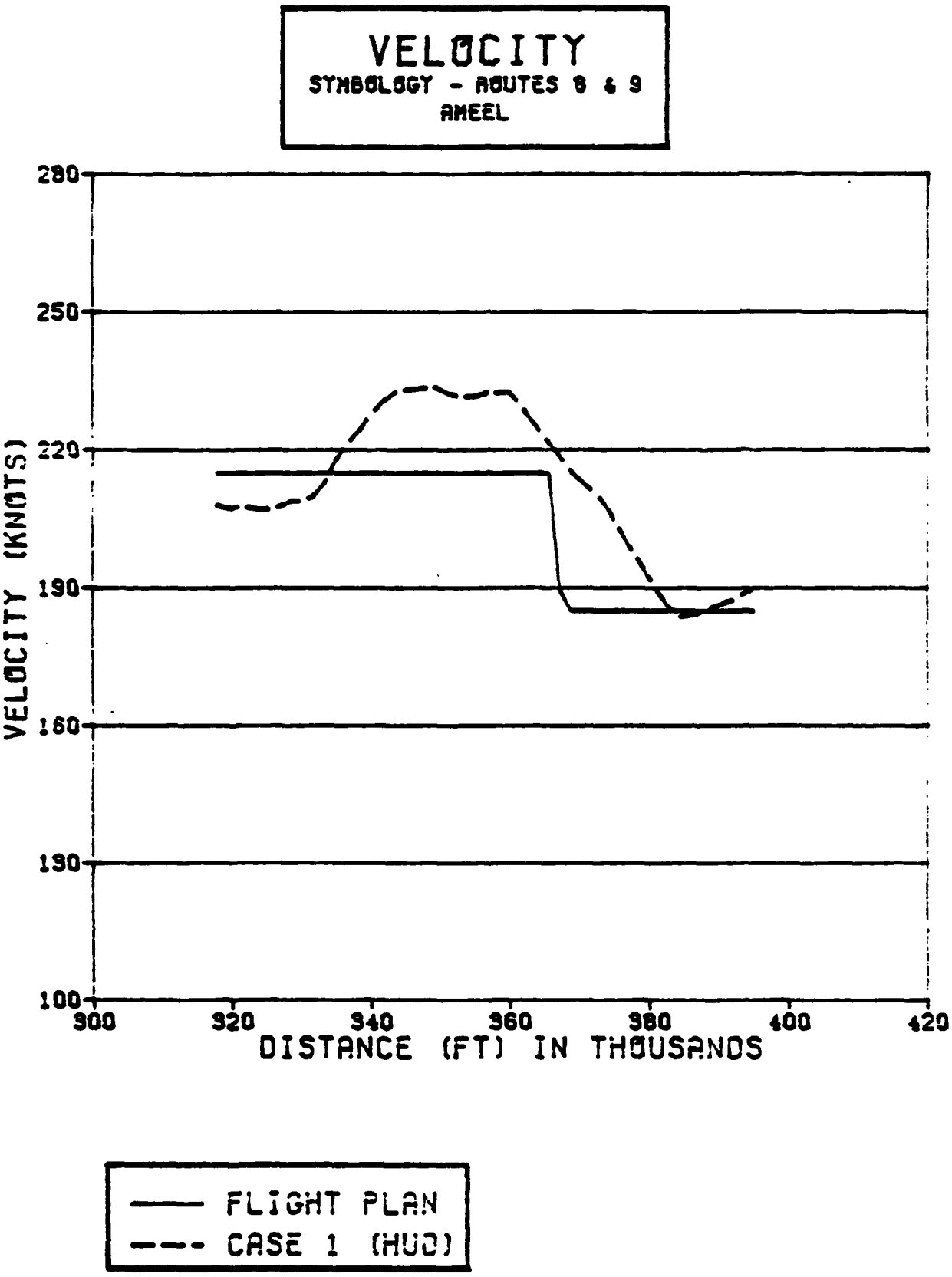

VELØCITY
CFPD - NIAGARA 28R
AMEEL
VELØCITY (KNØTS)
280
250
220
190
160
130
100
72
80
88
96
104
112
120
DISTANCE (FT) IN THØUSANDS
FLIGHT PLAN
COMMANDED
CASE 1 (HUD)

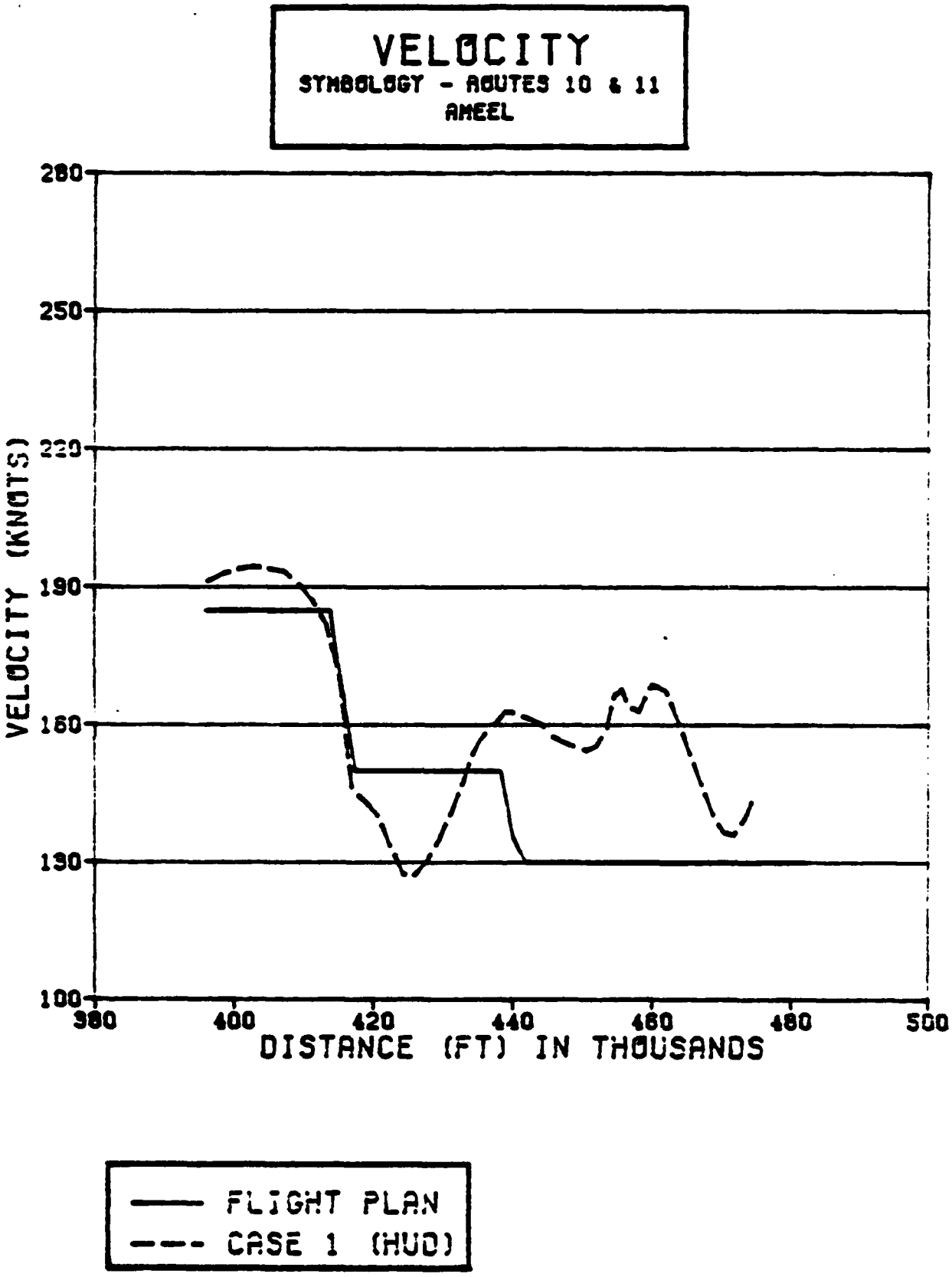

VELOCITY
CFPD - NIAGARA 29A
AMEEL
280
250
220
190
160
130
100
VELOCITY (KNOTS)
72
80
88
96
104
112
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 2 (HUD)

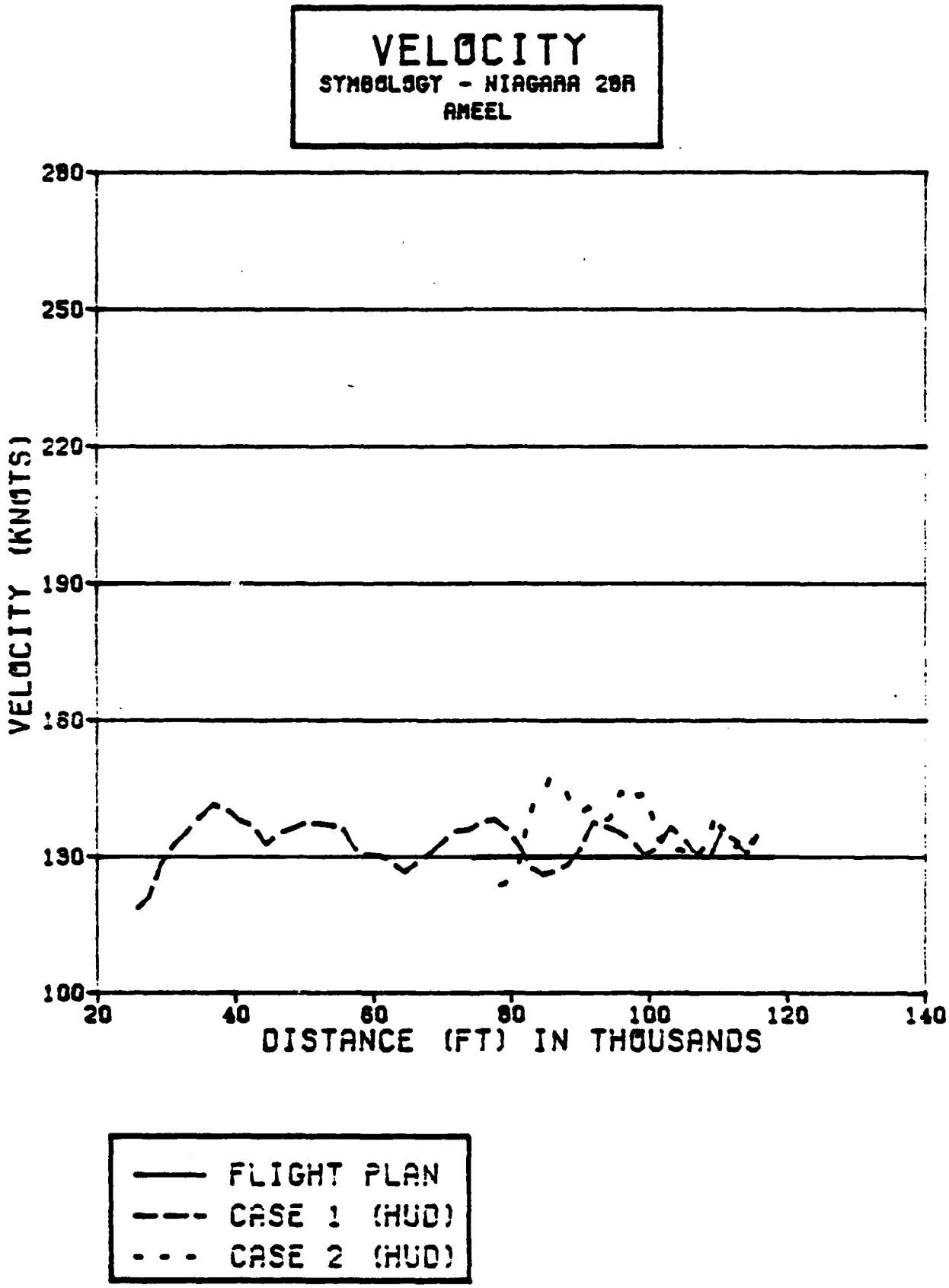

VELOCITY
SYMBOLOGY - ROUTES 2 & 3
AMEEL
280
250
220
190
160
130
100
VELOCITY (KNOTS)
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (HUD)

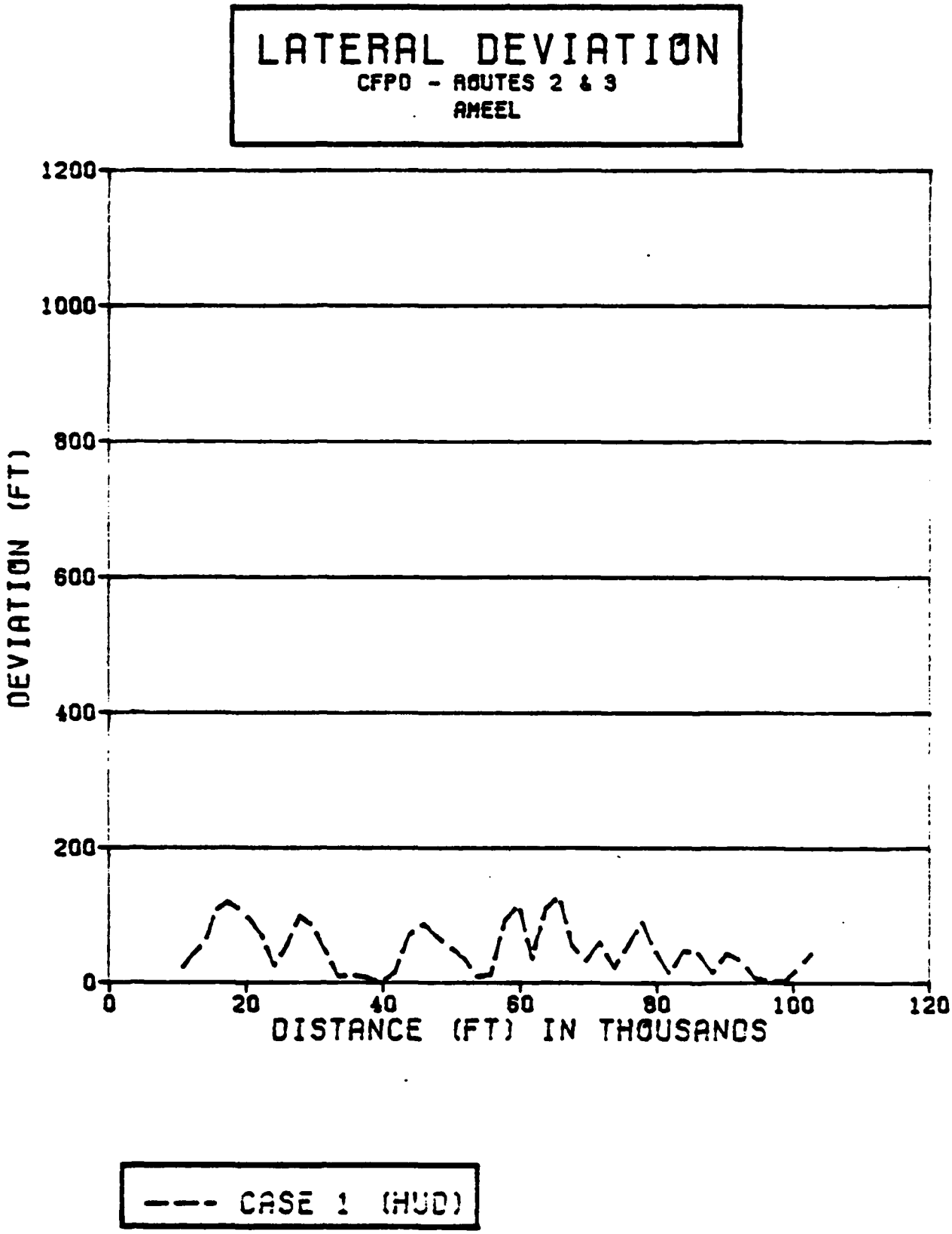

VELOCITY
SYMBOLOGY - ROUTES 4 & 5
AMEEL
280
250
220
190
160
130
100
VELOCITY (KNOTS)
90
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (HUD)

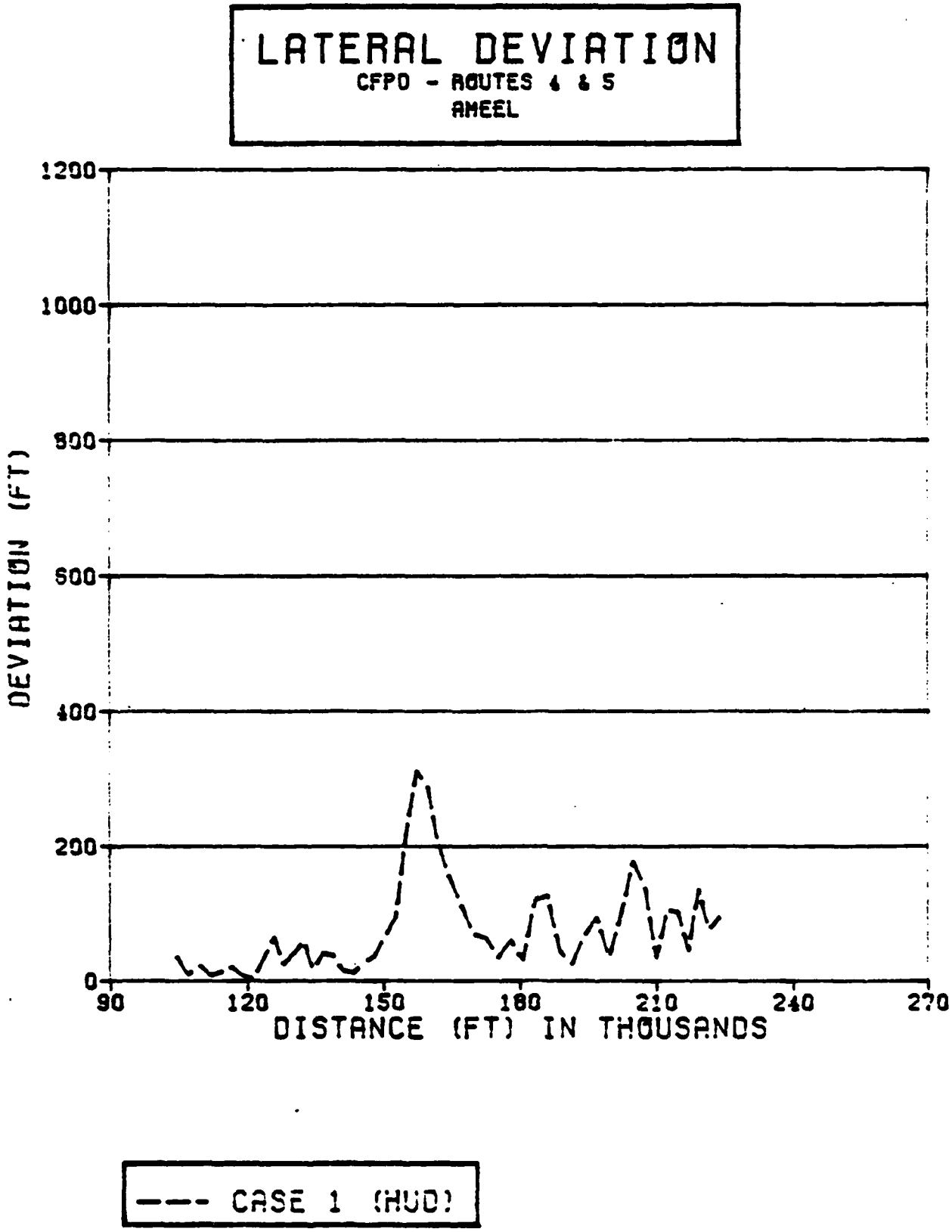

VELOCITY
SYMBOLOGY - ROUTES 6 & 7
AMEEL
VELOCITY (KNOTS)
280
250
220
190
160
130
100
220
240
260
280
300
320
340
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (HUD)

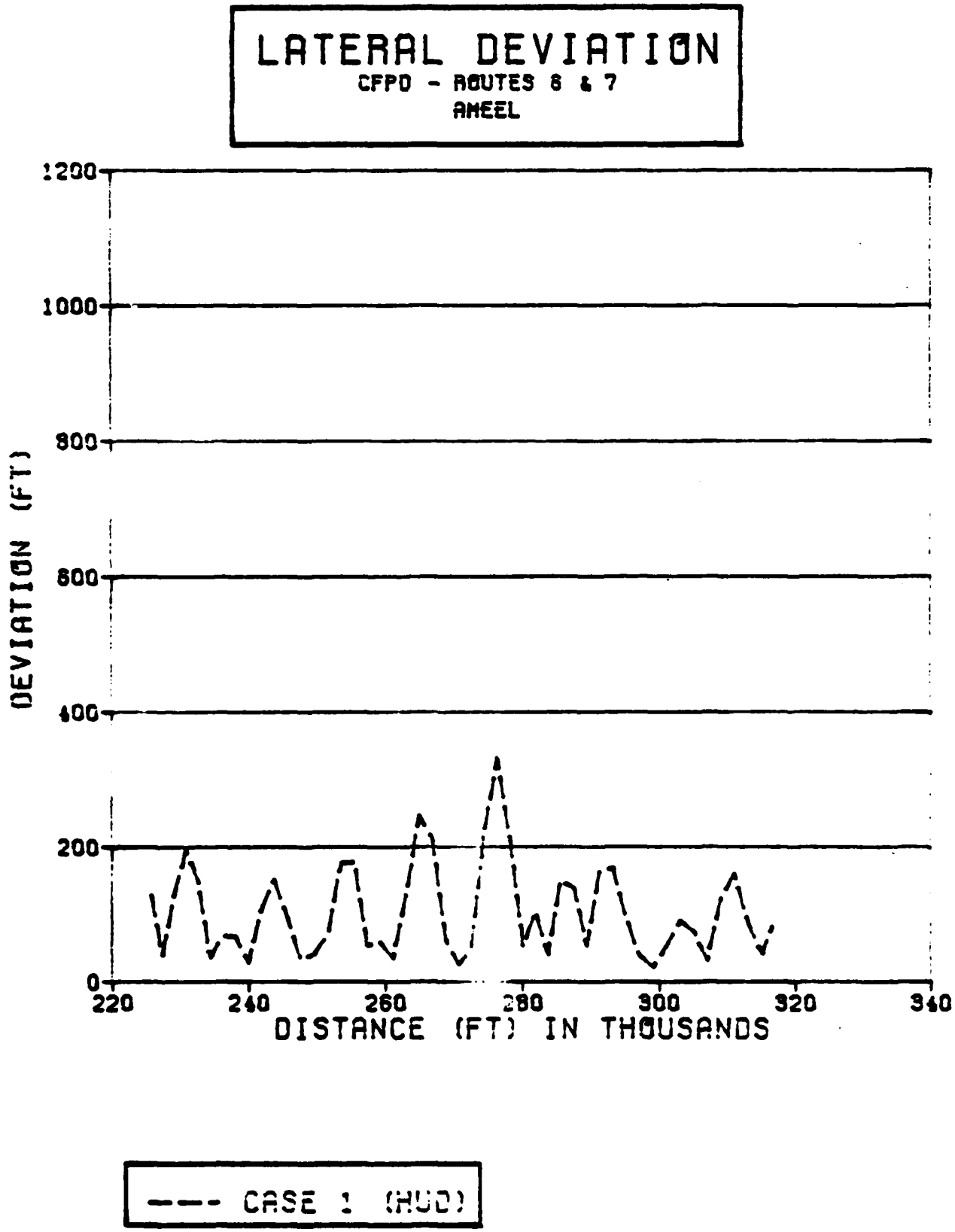

VELOCITY
SYMBOLOGY - ROUTES 8 & 9
AMEEL
280
250
220
190
160
130
100
VELOCITY (KNOTS)
300
320
340
360
380
400
420
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (HUD)

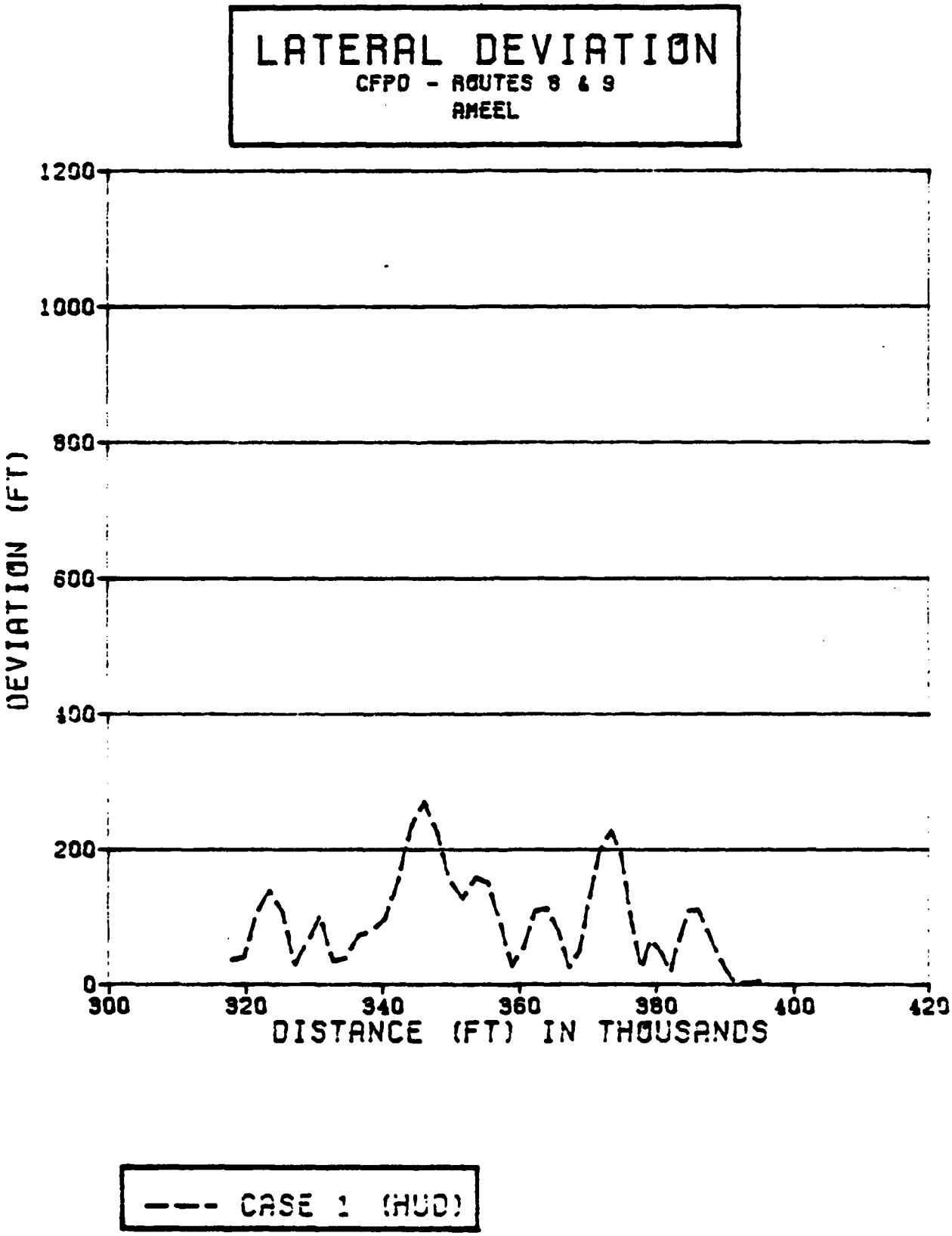

VELOCITY
SYMBOLOGY - ROUTES 10 & 11
AMEEL
280
250
220
190
160
130
100
VELOCITY (KNOTS)
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (HUD)

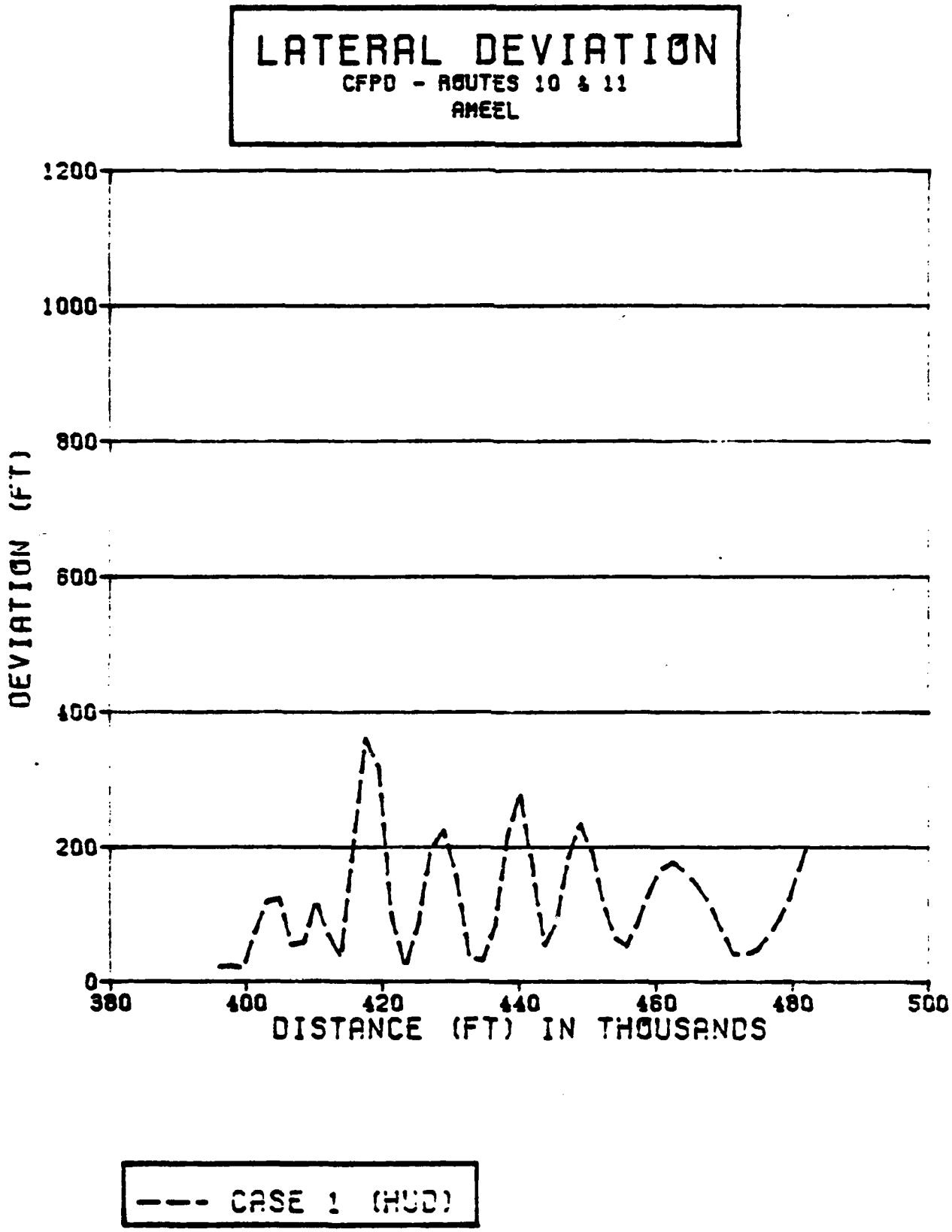

VELOCITY
SYMBOLOGY - NIAGARA 28A
AMEEL
280
250
220
190
160
130
100
VELOCITY (KNOTS)
20
40
60
80
100
120
140
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (HUD)
CASE 2 (HUD)


LATERAL DEVIATION
CFPD - ROUTES 2 & 3
AMEEL
1200
1000
800
600
400
200
0
DEVIATION (FT)
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
--- CASE 1 (HUD)


LATERAL DEVIATION
CFPO - ROUTES 4 & 5
AMEEL
1200
1000
800
600
400
200
0
DEVIATION (FT)
90
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
--- CASE 1 (HUD)


LATERAL DEVIATION
CFPD - ROUTES 6 & 7
AMEEL
1200
1000
800
600
400
200
0
DEVIATION (FT)
220
240
260
280
300
320
340
DISTANCE (FT) IN THOUSANDS
CASE 1 (HUD)


LATERAL DEVIATION
CFPD - ROUTES 8 & 9
AMEEL
1200
1000
800
600
400
200
0
DEVIATION (FT)
300
320
340
360
380
400
420
DISTANCE (FT) IN THOUSANDS
--- CASE 1 (HUD)


LATERAL DEVIATION
CFPD - ROUTES 10 & 11
AMEEL
1200
1000
800
600
400
200
0
DEVIATION (FT)
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
--- CASE 1 (HUD)

AD-A145 858 COMMAND FLIGHT PATH DISPLAY PHASE I AND II APPENDIX F (U) SYSTEMS ASSOCIATES INC LONG BEACH CA RESOURCE MANAGEMENT SYSTEMS DIV SEP 83 SAI-83-01 3/3

UNCLASSIFIED F33615-79-C-3618 F/G 1/4 NL

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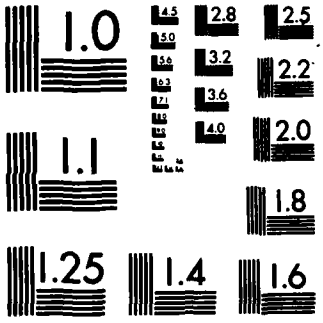
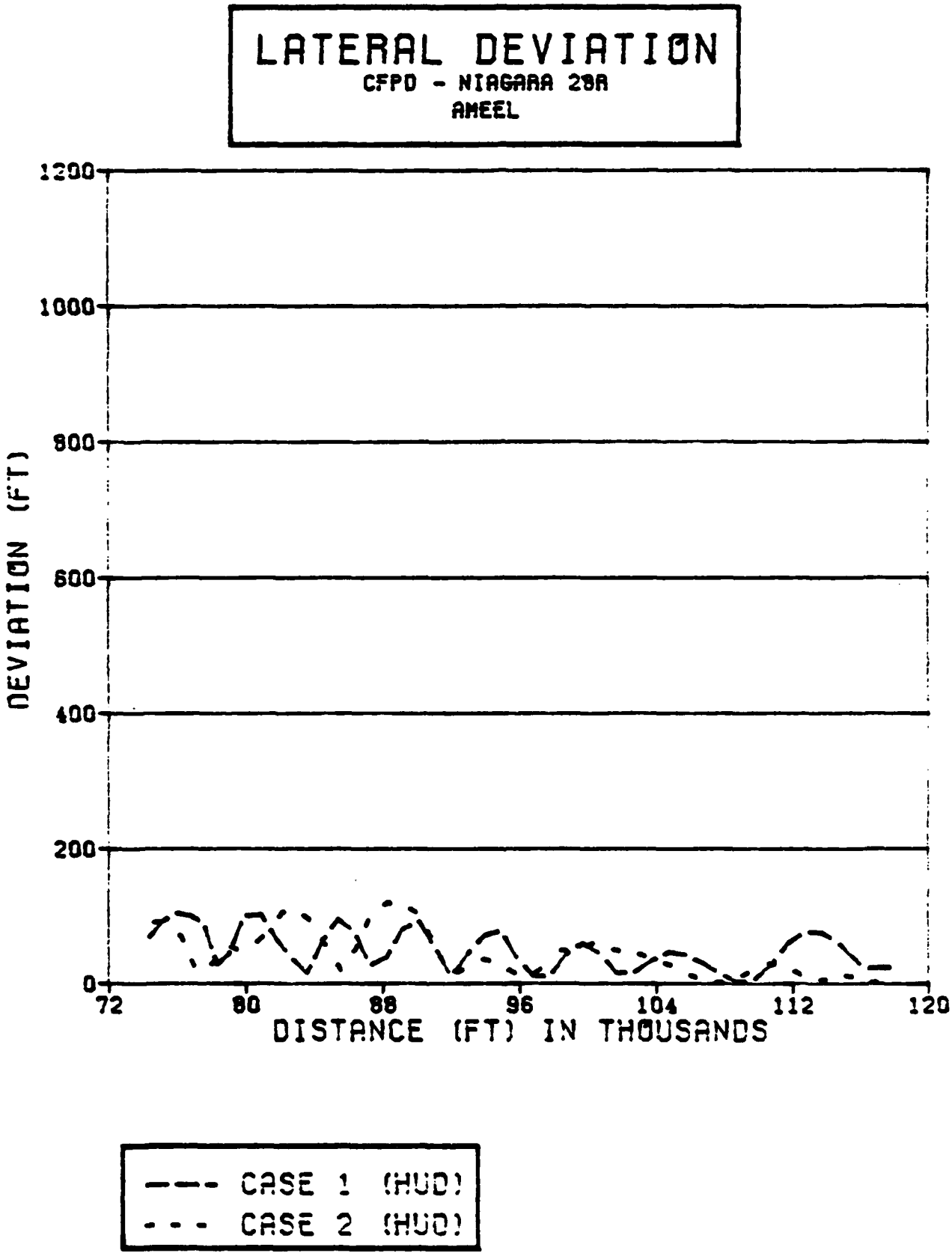
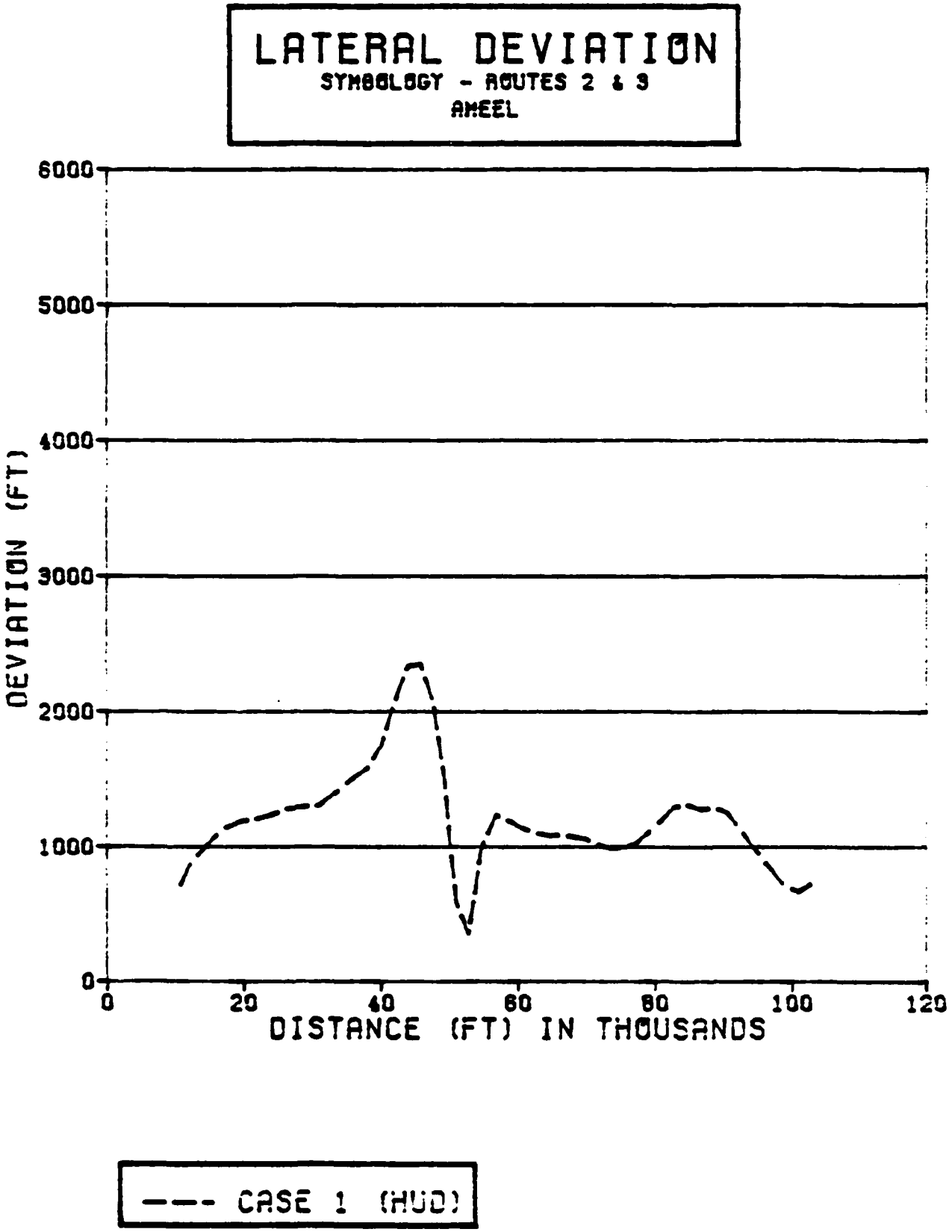
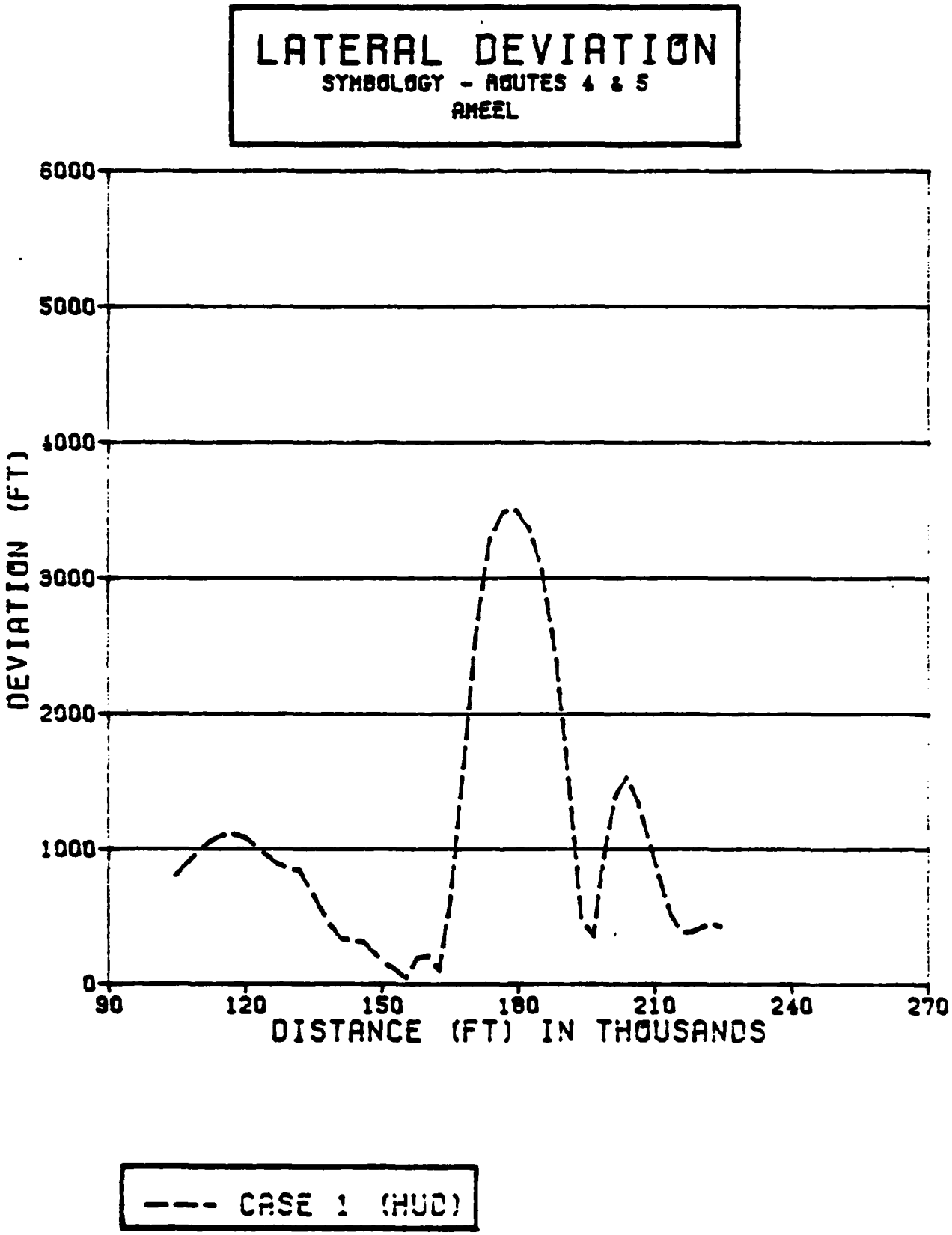
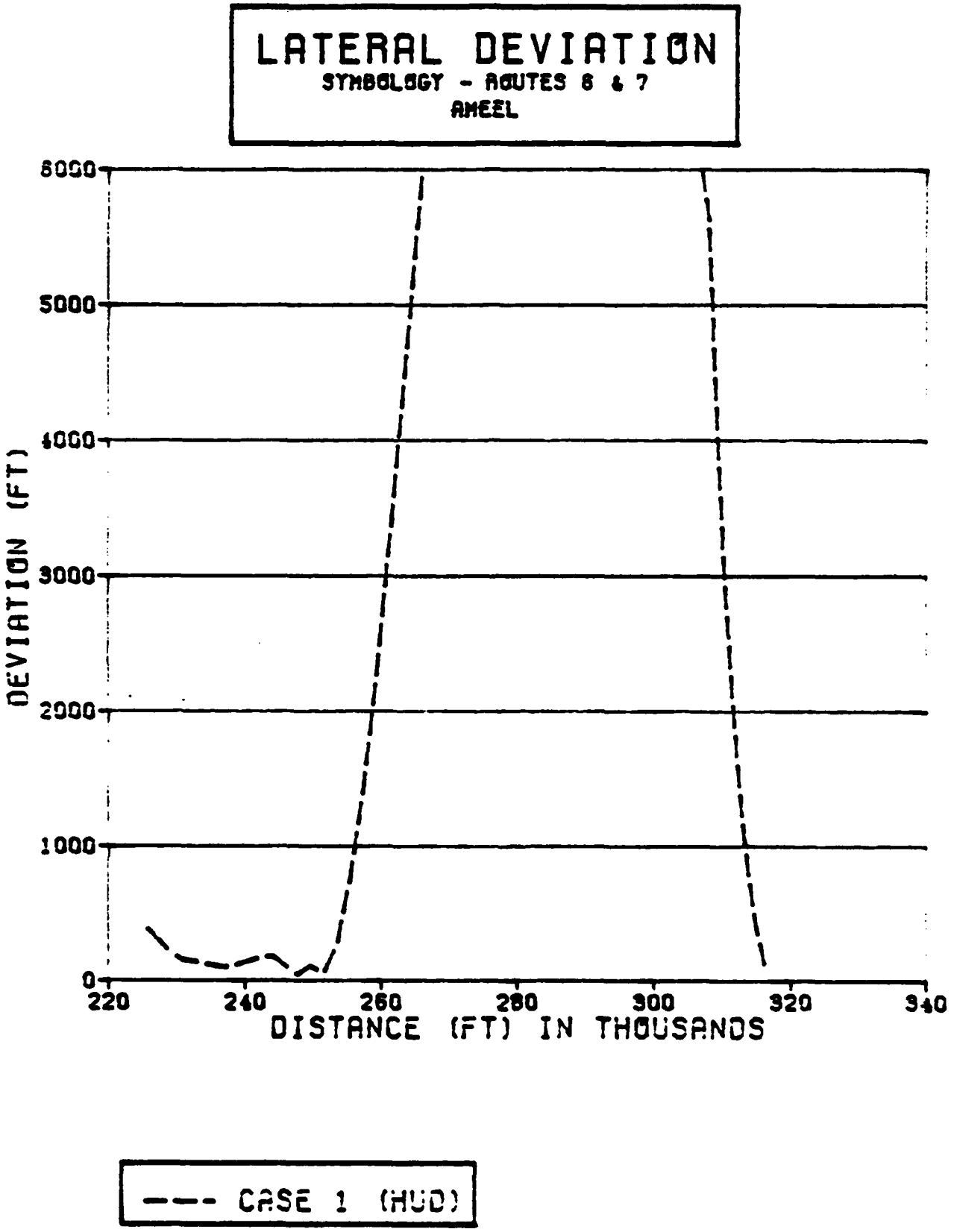


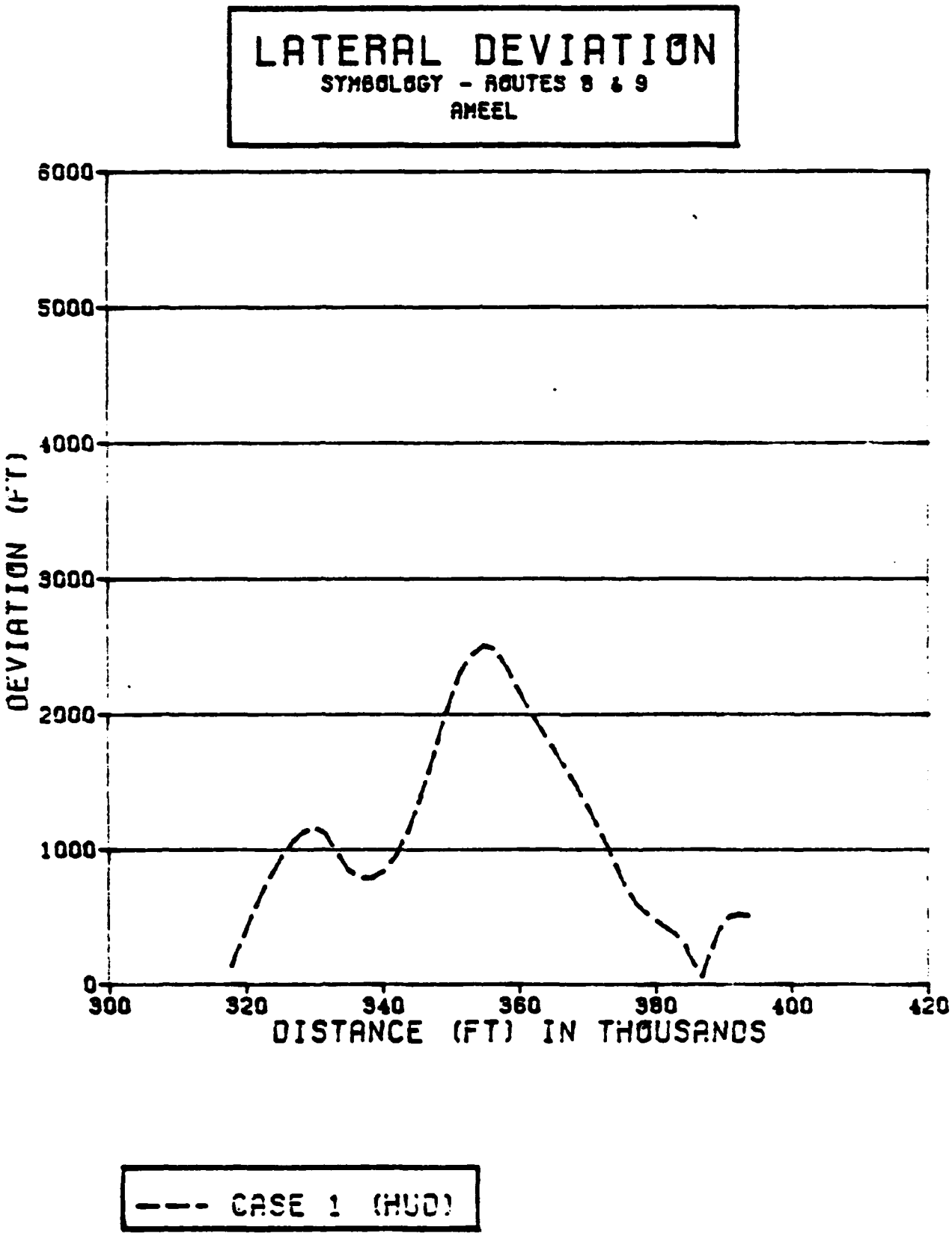
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

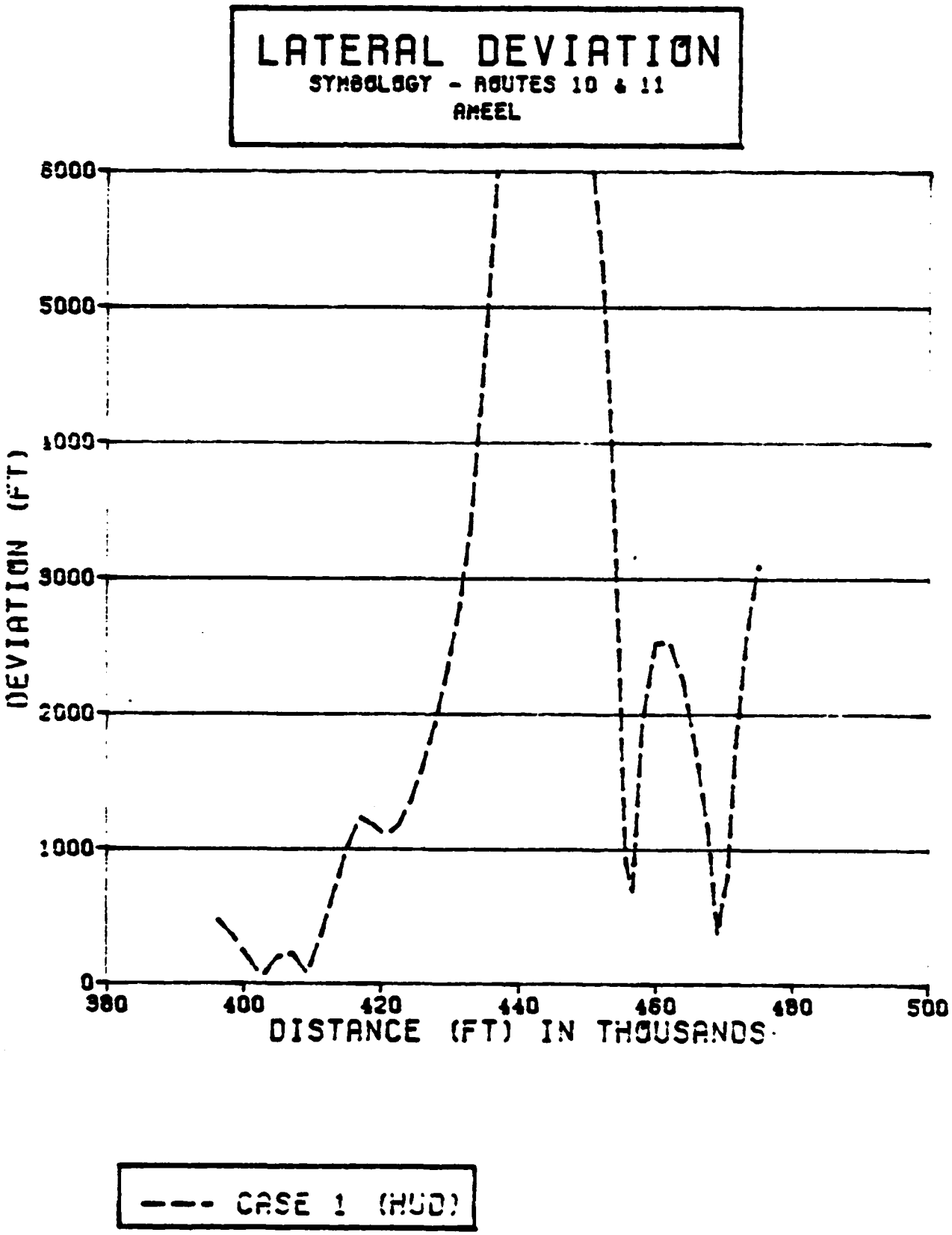

LATERAL DEVIATION
CFPD - NIAGARA 28R
AMEEL
1200
1000
800
600
400
200
0
DEVIATION (FT)
72
80
88
96
104
112
120
DISTANCE (FT) IN THOUSANDS
CASE 1 (HUD)
CASE 2 (HUD)

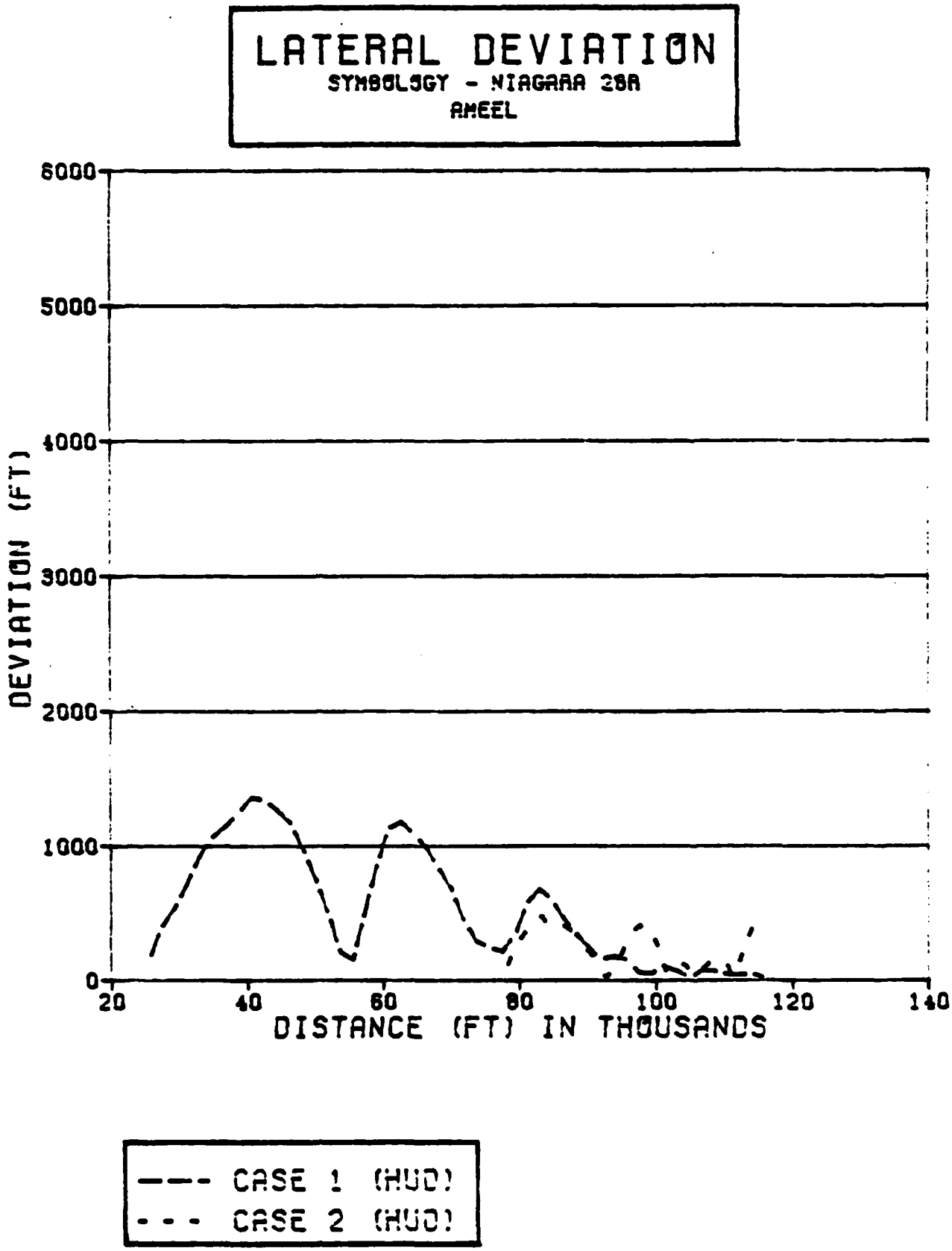

LATERAL DEVIATION
SYMBOLOGY - ROUTES 2 & 3
AMEEL
6000
5000
4000
3000
2000
1000
0
DEVIATION (FT)
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
--- CASE 1 (HUD)

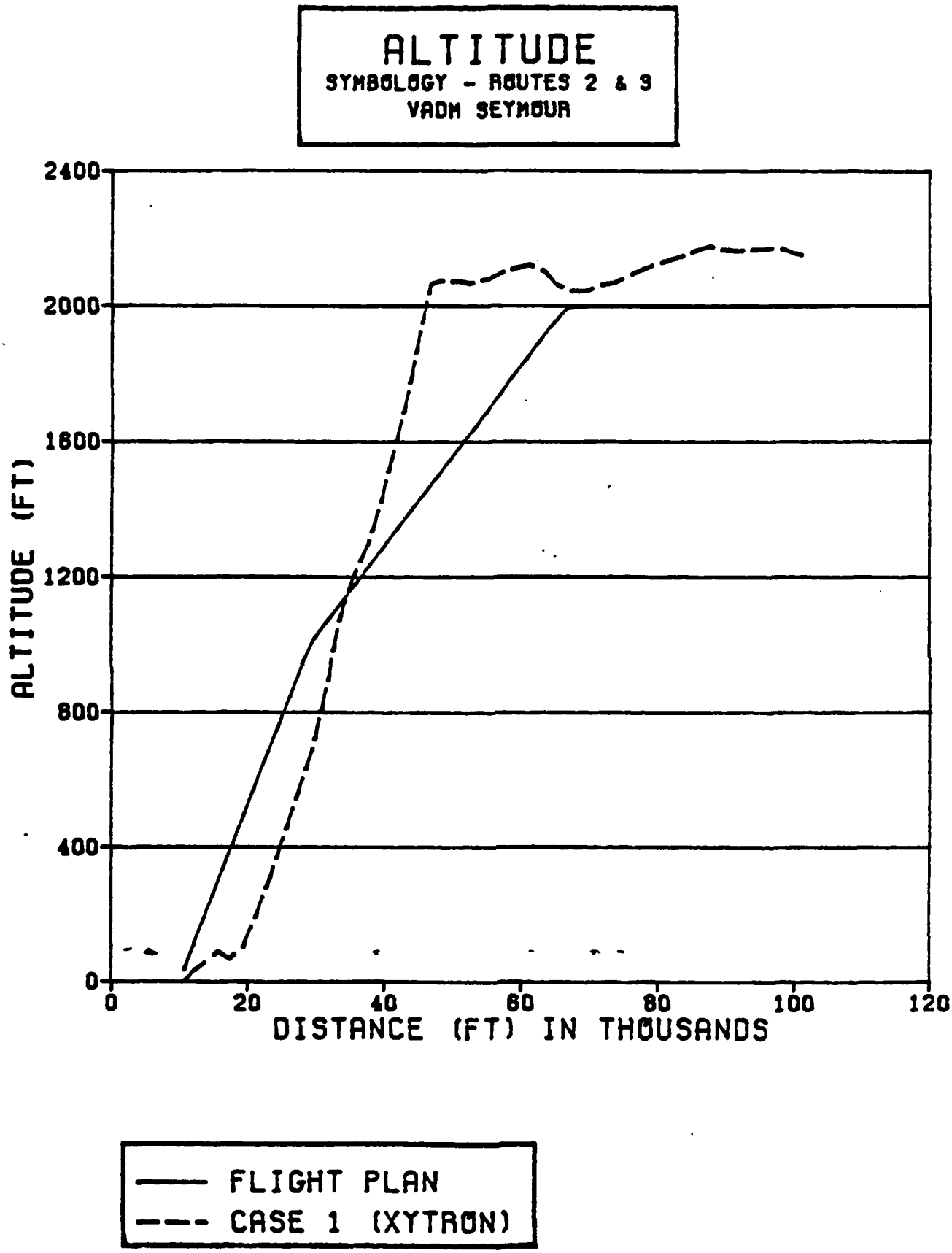

LATERAL DEVIATION
SYMBOLOGY - ROUTES 4 & 5
AMEEL
6000
5000
4000
3000
2000
1000
0
DEVIATION (FT)
90
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
--- CASE 1 (HUD)

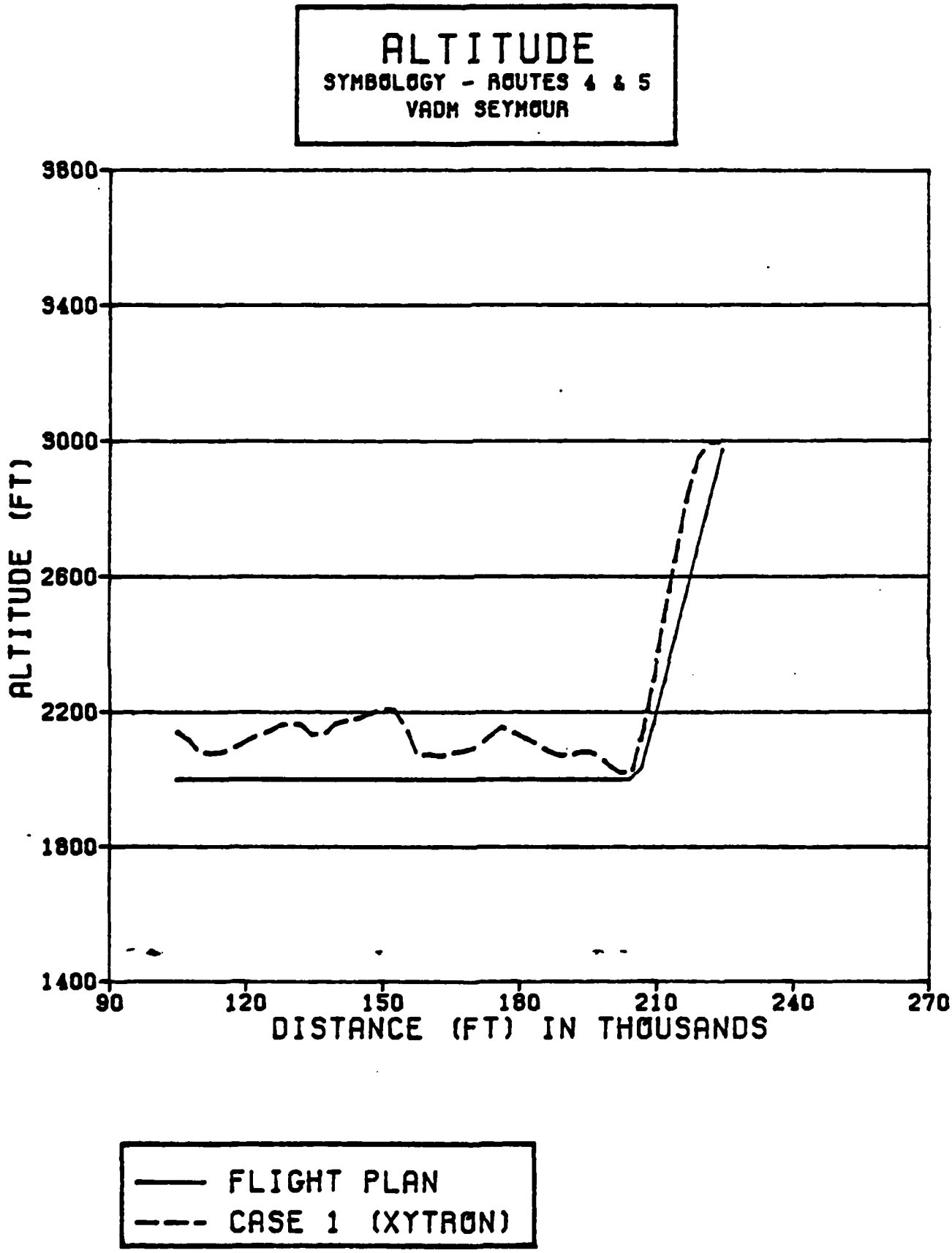

LATERAL DEVIATION
SYMBOLOGY - ROUTES 6 & 7
AMEEL
6000
5000
4000
3000
2000
1000
0
DEVIATION (FT)
220
240
260
280
300
320
340
DISTANCE (FT) IN THOUSANDS
--- CASE 1 (HUD)

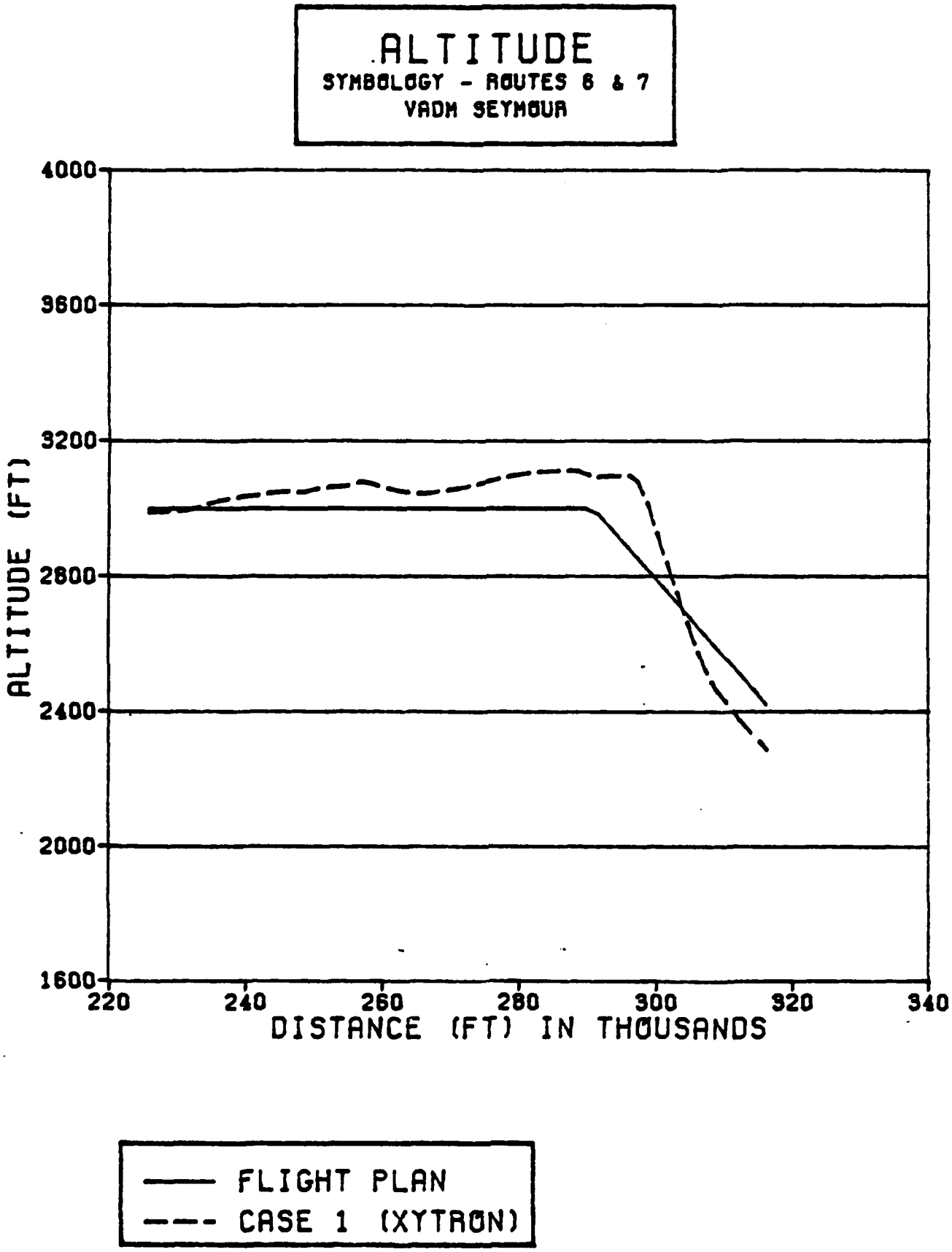

LATERAL DEVIATION
SYMBOLOGY - ROUTES 8 & 9
AMEEL
6000
5000
4000
3000
2000
1000
0
DEVIATION (FT)
300
320
340
360
380
400
420
DISTANCE (FT) IN THOUSANDS
--- CASE 1 (HUD)

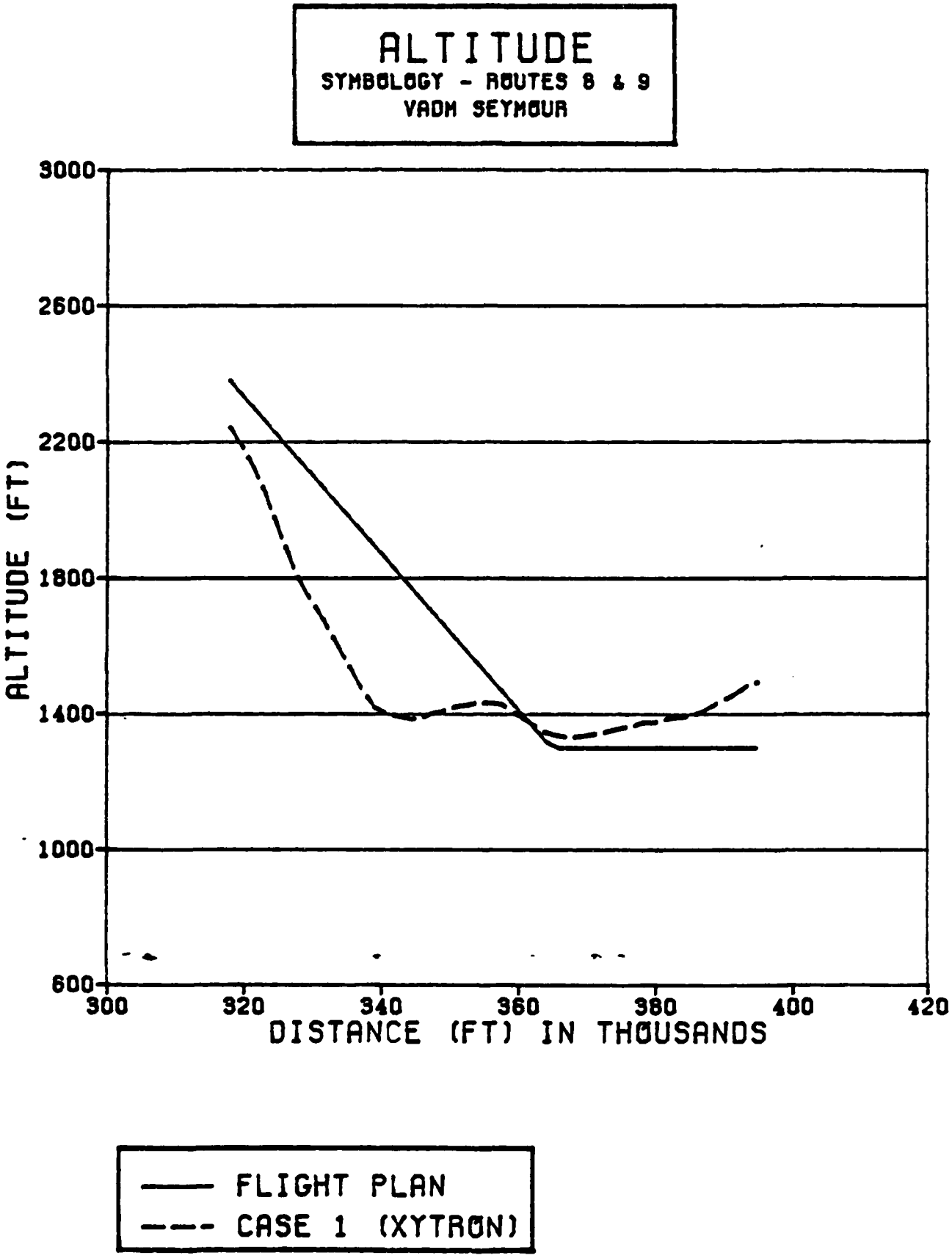

LATERAL DEVIATION
SYMBOLOGY - ROUTES 10 & 11
AMEEL
6000
5000
4000
3000
2000
1000
0
DEVIATION (FT)
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
CASE 1 (HUD)

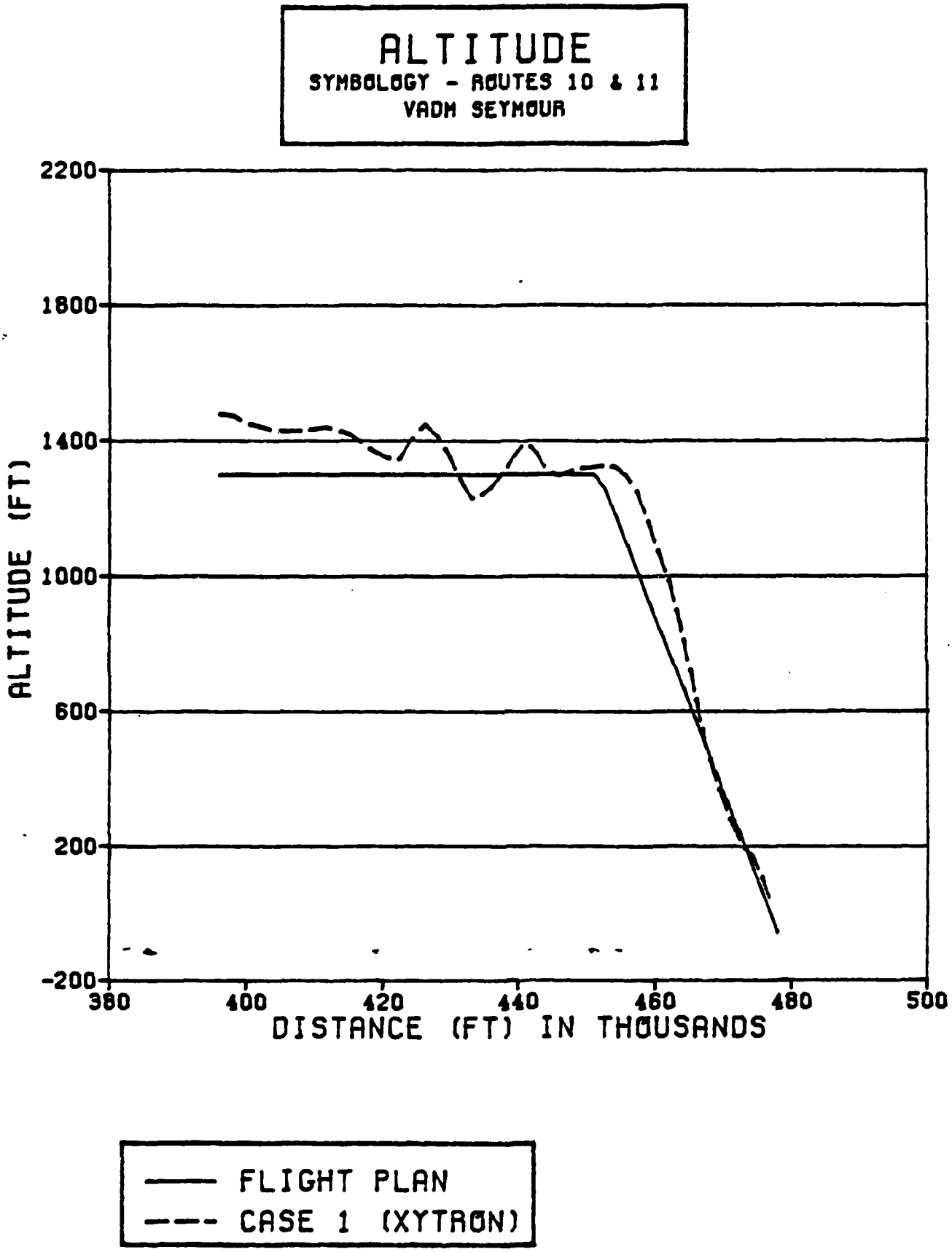

LATERAL DEVIATION
SYMBOLOGY - NIAGARA 28R
AMEEL
6000
5000
4000
3000
2000
1000
0
DEVIATION (FT)
20
40
60
80
100
120
140
DISTANCE (FT) IN THOUSANDS
CASE 1 (HUD)
CASE 2 (HUD)

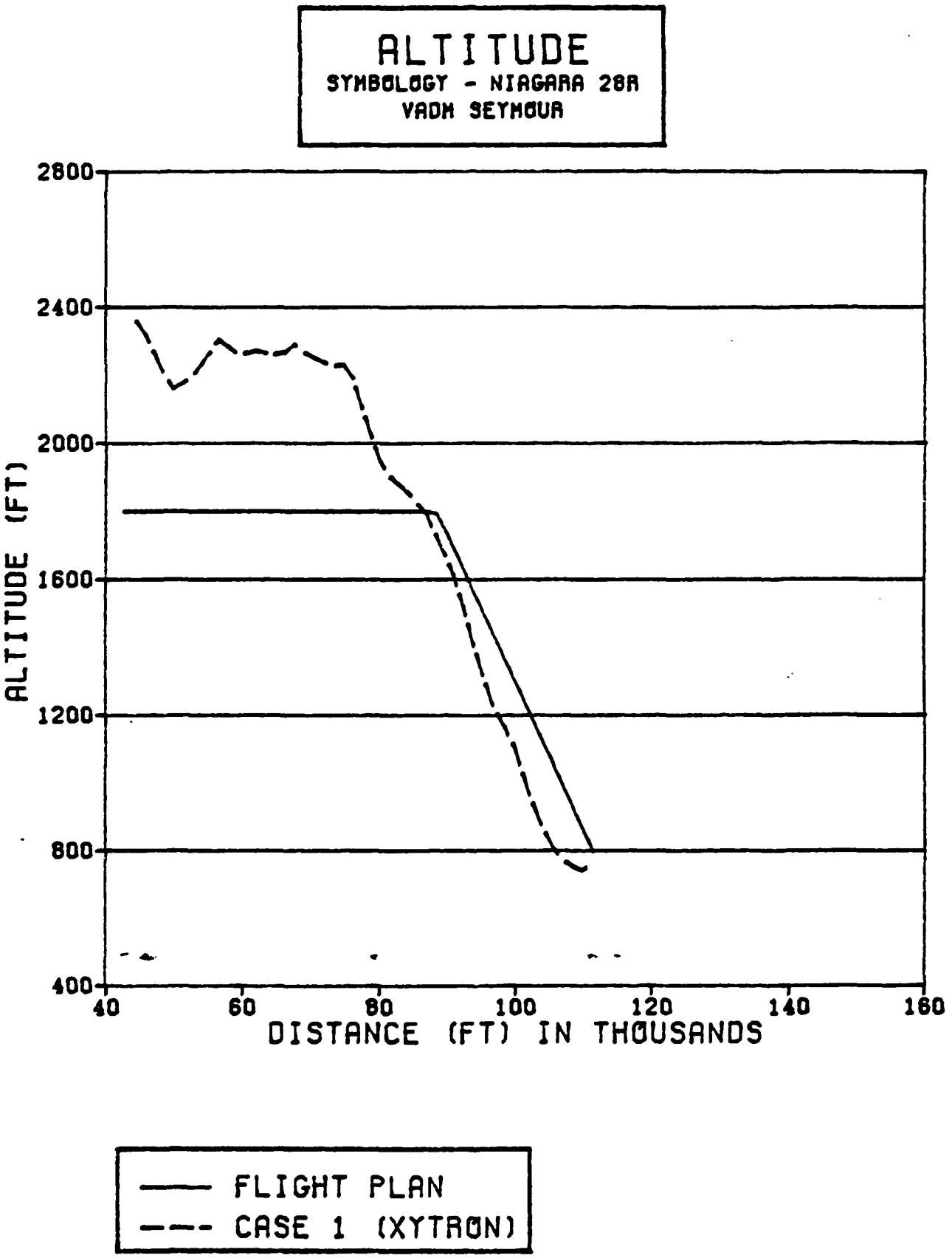

ALTITUDE
SYMBOLOGY - ROUTES 2 & 3
VADM SEYMOUR
2400
2000
1600
1200
800
400
0
ALTITUDE (FT)
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)

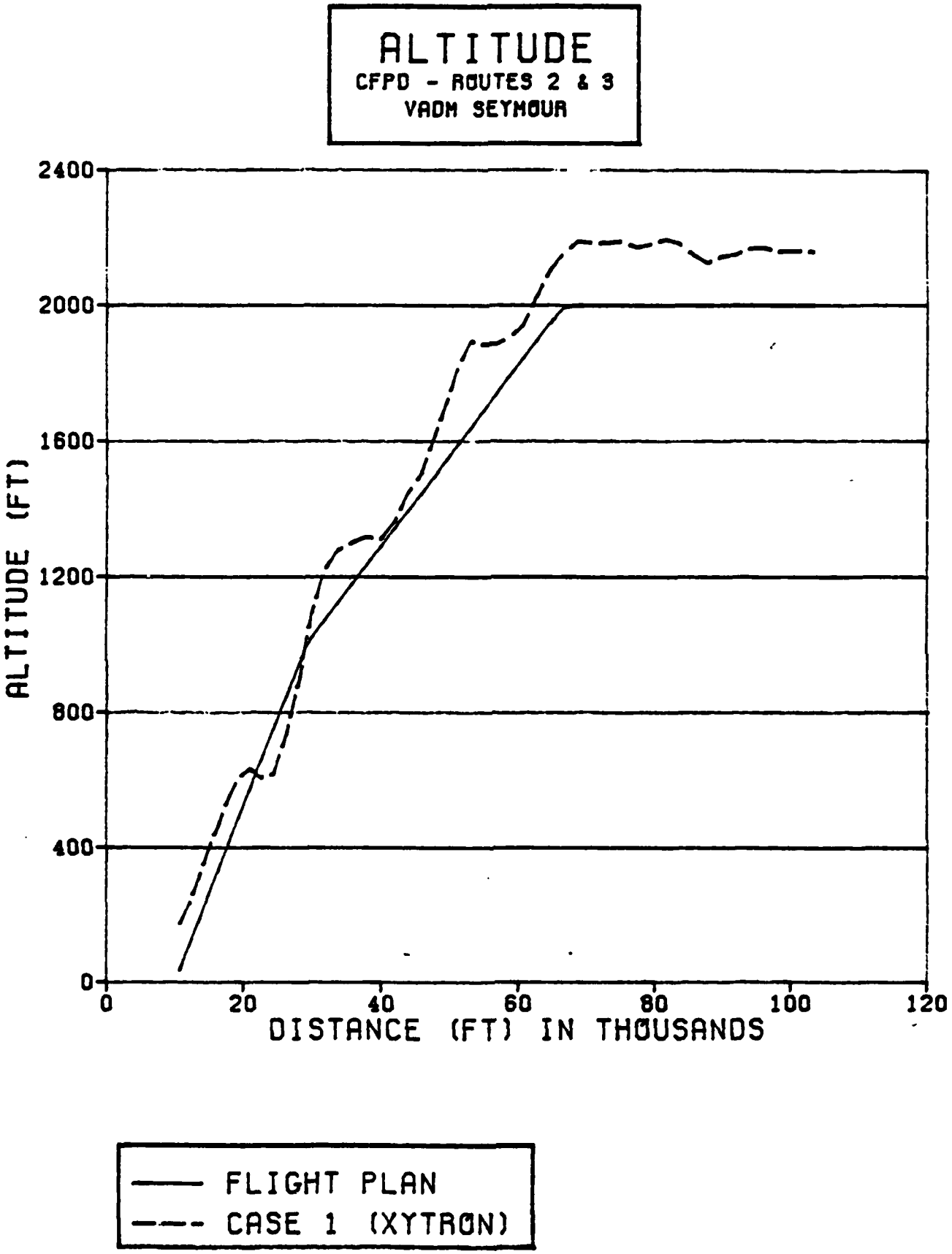

ALTITUDE
SYMBOLOGY - ROUTES 4 & 5
VADM SEYMOUR
3800
3400
3000
2600
2200
1800
1400
ALTITUDE (FT)
90
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)

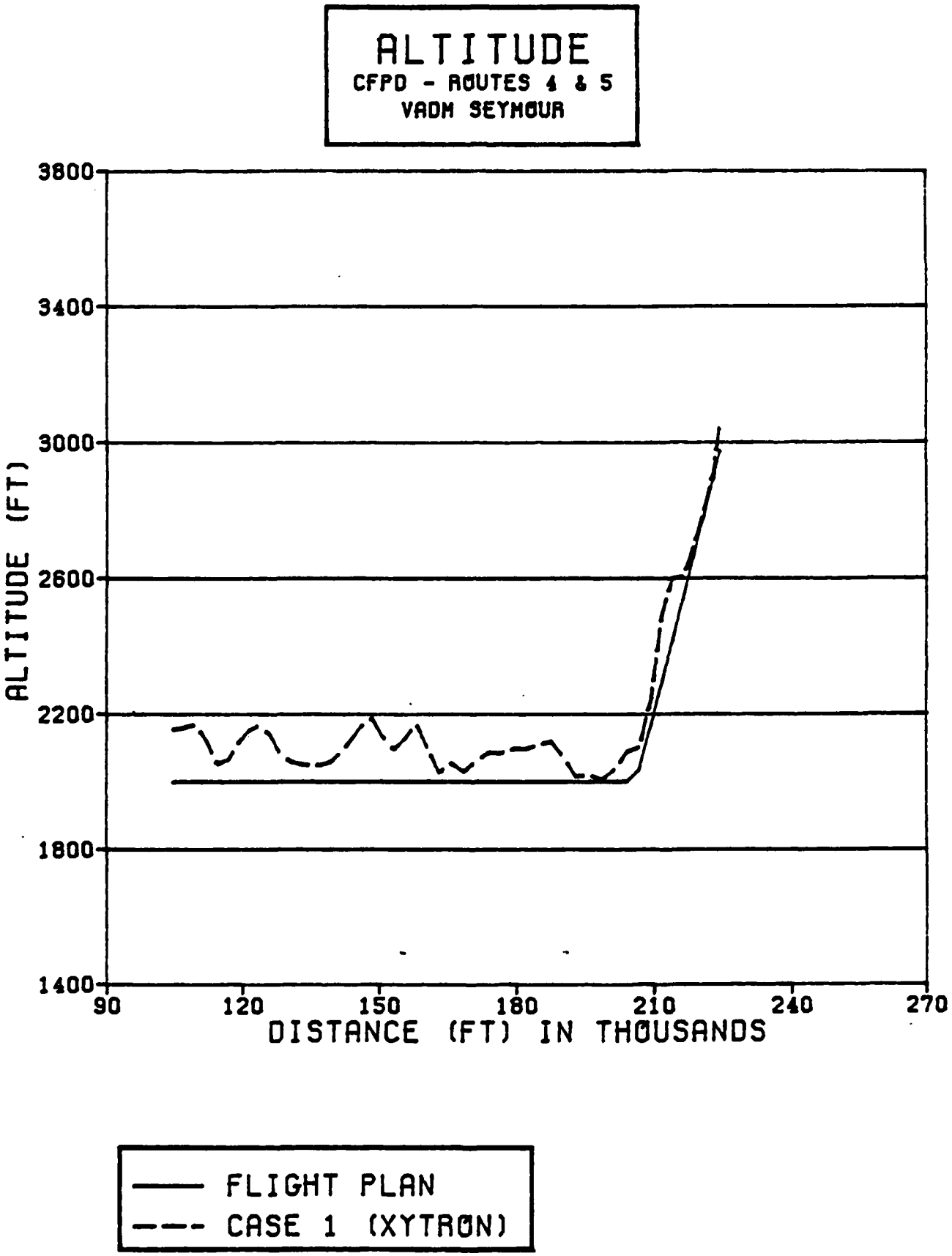

ALTITUDE
SYMBOLOGY - ROUTES 6 & 7
VADM SEYMOUR
4000
3600
3200
2800
2400
2000
1600
ALTITUDE (FT)
220
240
260
280
300
320
340
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)

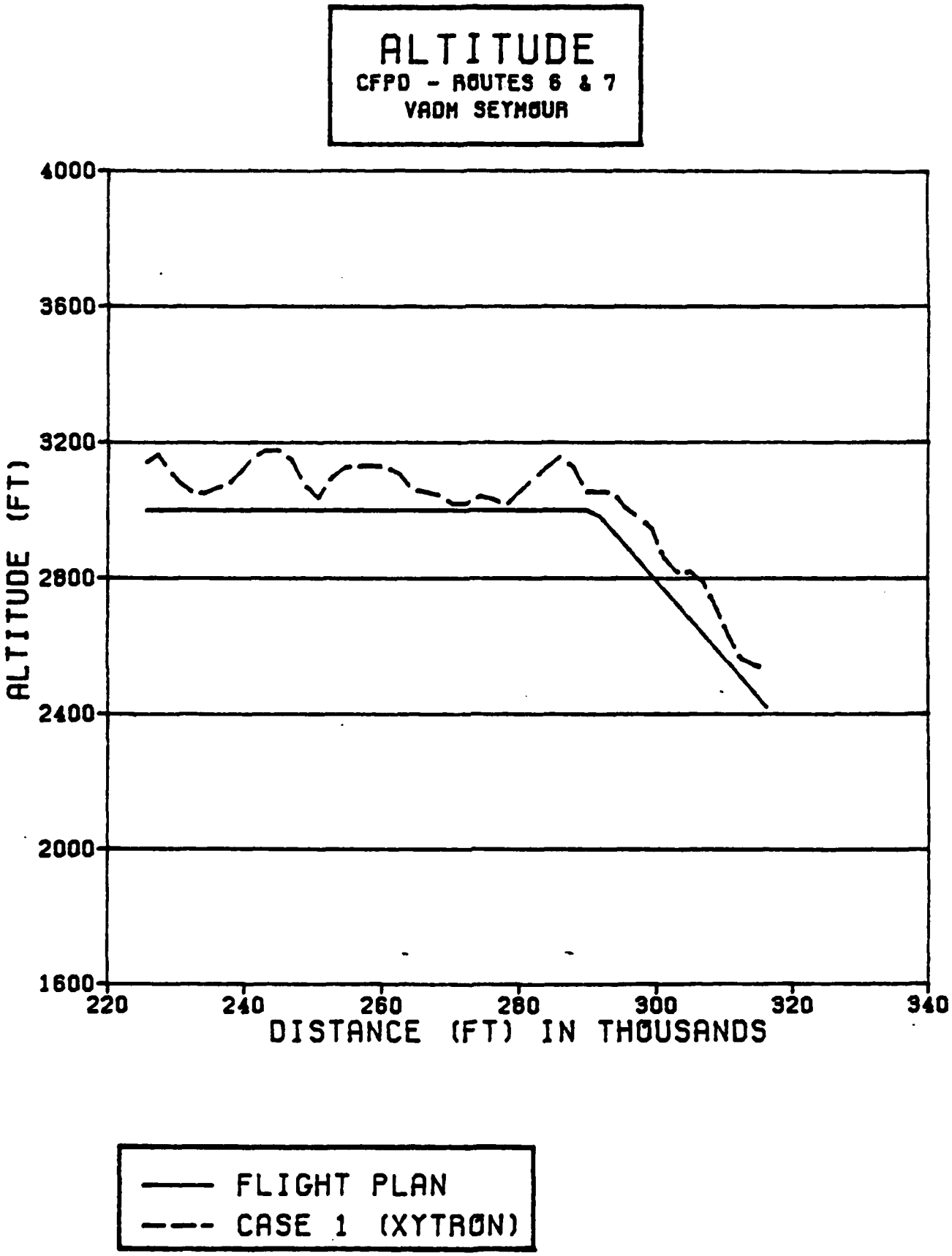

ALTITUDE
SYMBOLOGY - ROUTES 8 & 9
VADM SEYMOUR
3000
2600
2200
1800
1400
1000
600
ALTITUDE (FT)
300
320
340
360
380
400
420
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)

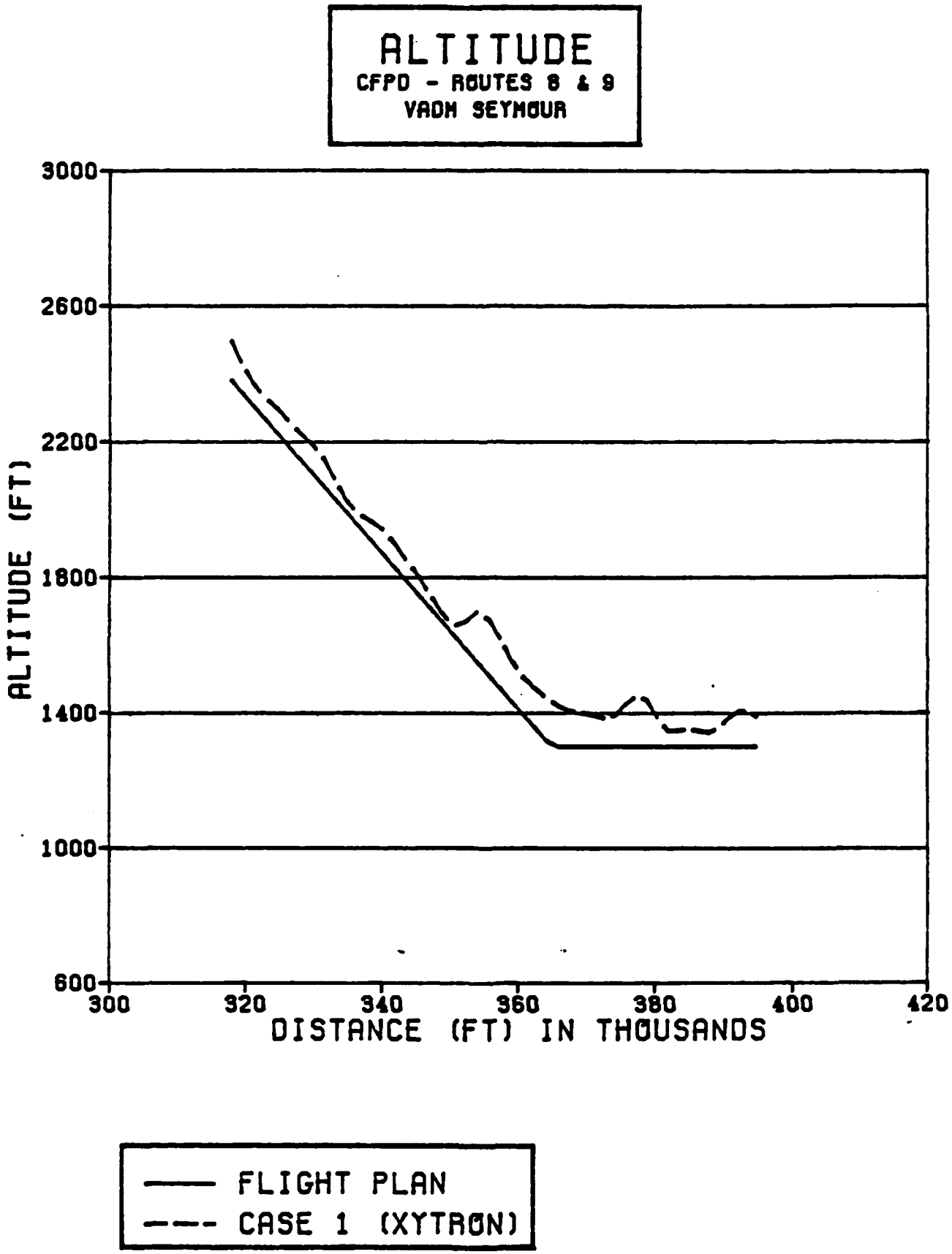

ALTITUDE
SYMBOLOGY - ROUTES 10 & 11
VADM SEYMOUR
2200
1800
1400
1000
600
200
-200
ALTITUDE (FT)
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)

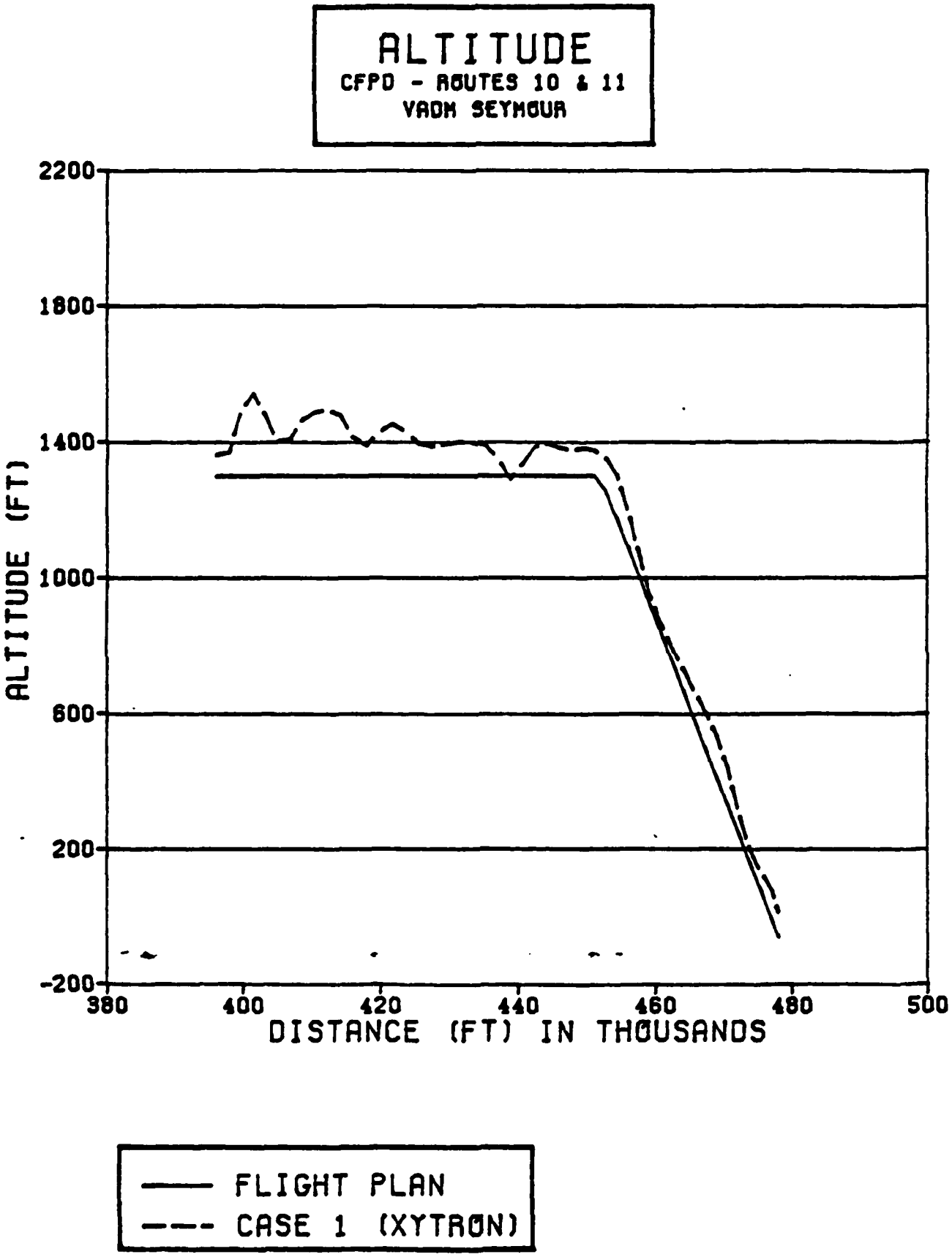

ALTITUDE
SYMBOLOGY - NIAGARA 28R
VADM SEYMOUR
2800
2400
2000
1600
1200
800
400
ALTITUDE (FT)
40
60
80
100
120
140
160
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)

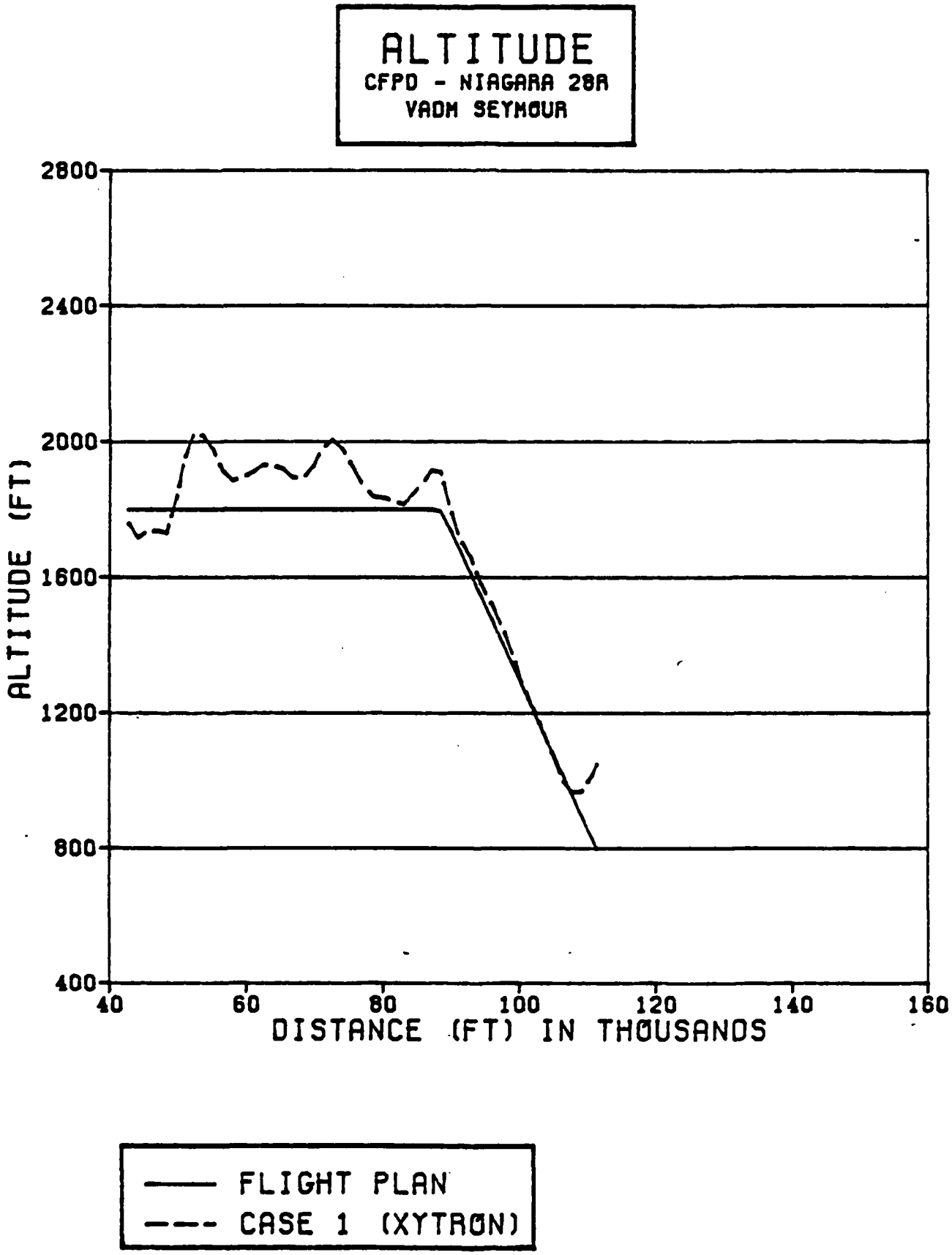

ALTITUDE
CFPD - ROUTES 2 & 3
VADM SEYMOUR
2400
2000
1600
1200
800
400
0
ALTITUDE (FT)
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)

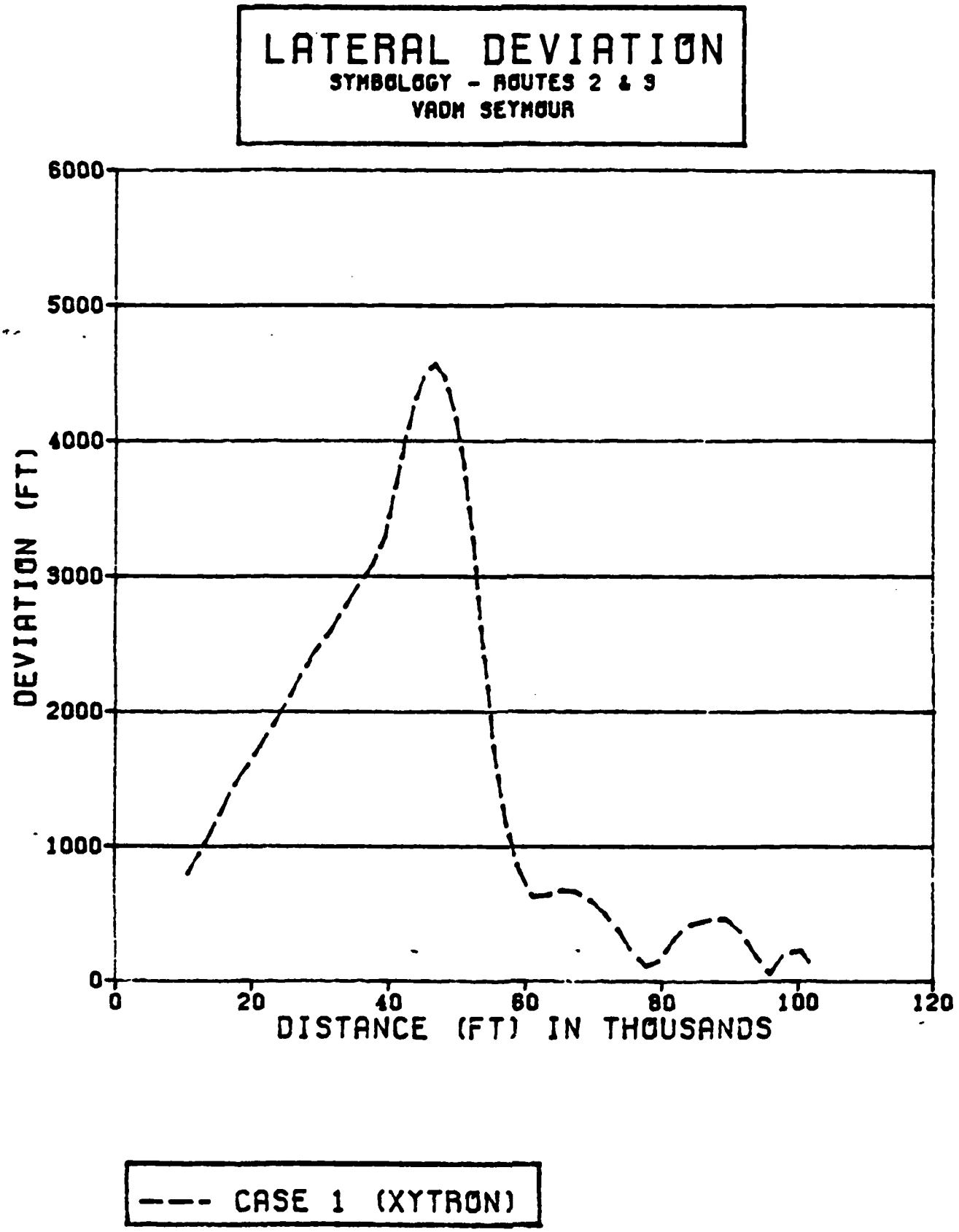

ALTITUDE
CFPD - ROUTES 4 & 5
VADM SEYMOUR
3800
3400
3000
2600
2200
1800
1400
ALTITUDE (FT)
90
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)

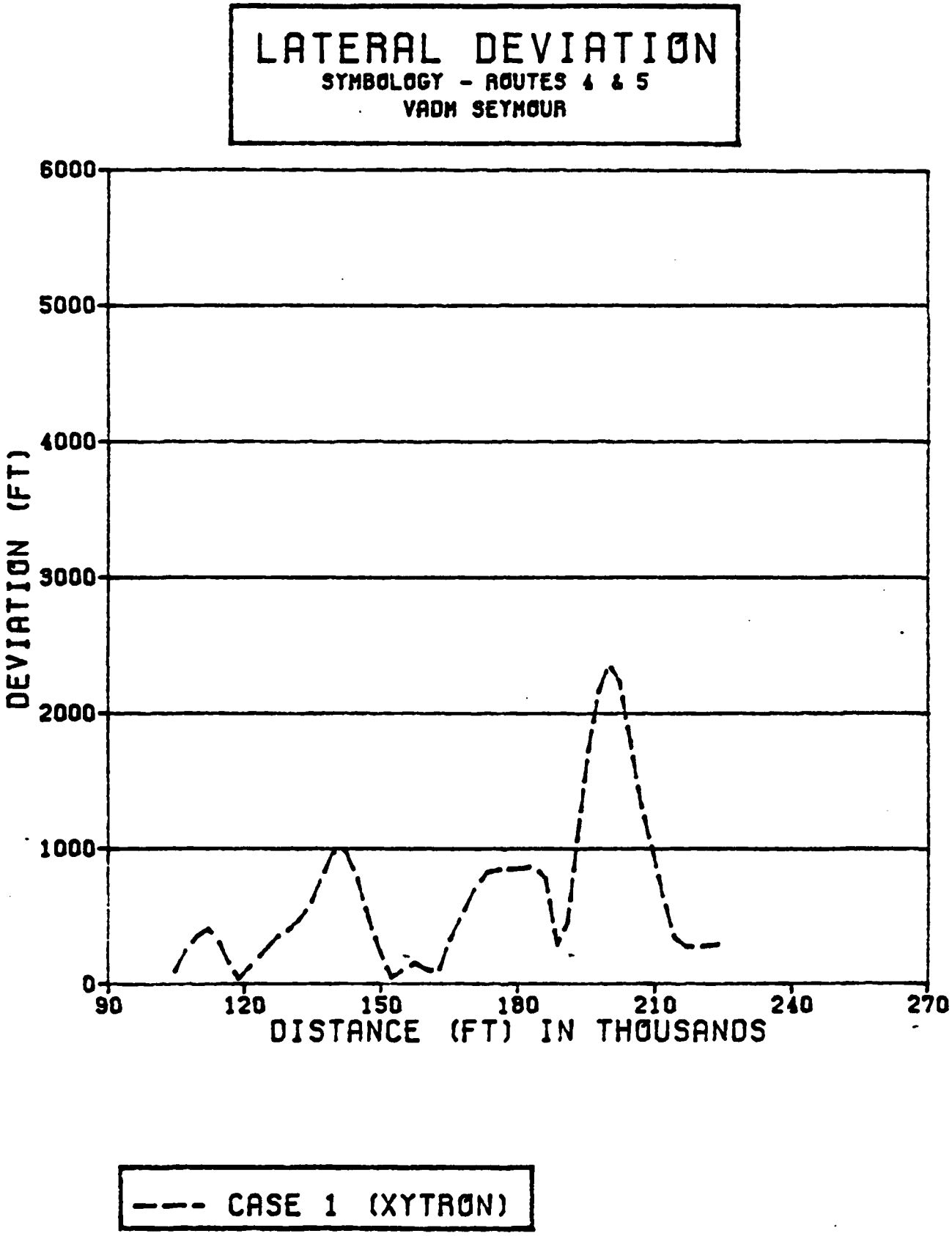

ALTITUDE
CFPD - ROUTES 6 & 7
VADM SEYMOUR
4000
3600
3200
2800
2400
2000
1600
ALTITUDE (FT)
220
240
260
280
300
320
340
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)

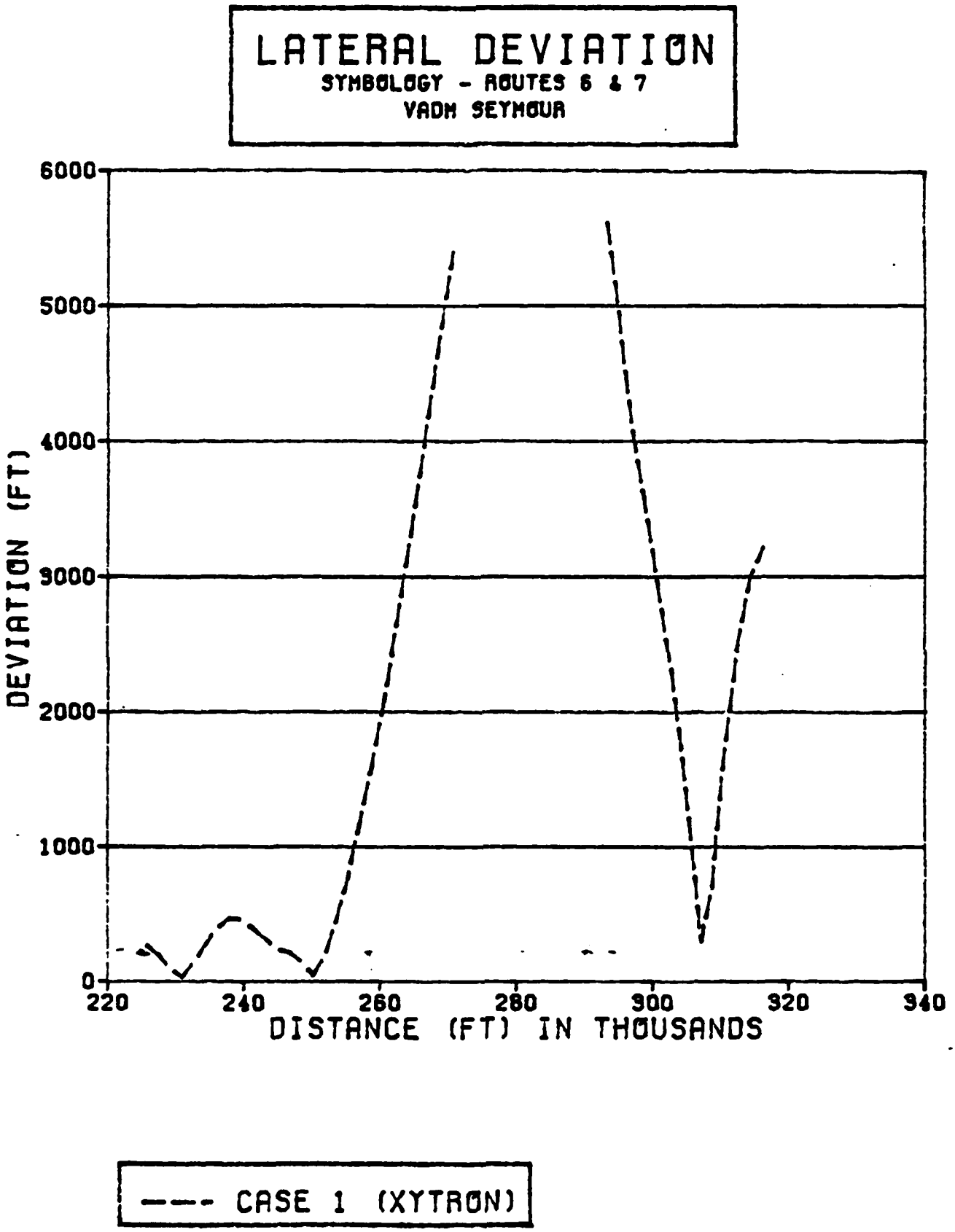

ALTITUDE
CFPD - ROUTES 8 & 9
VADM SEYMOUR
3000
2600
2200
1800
1400
1000
600
ALTITUDE (FT)
300
320
340
360
380
400
420
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)

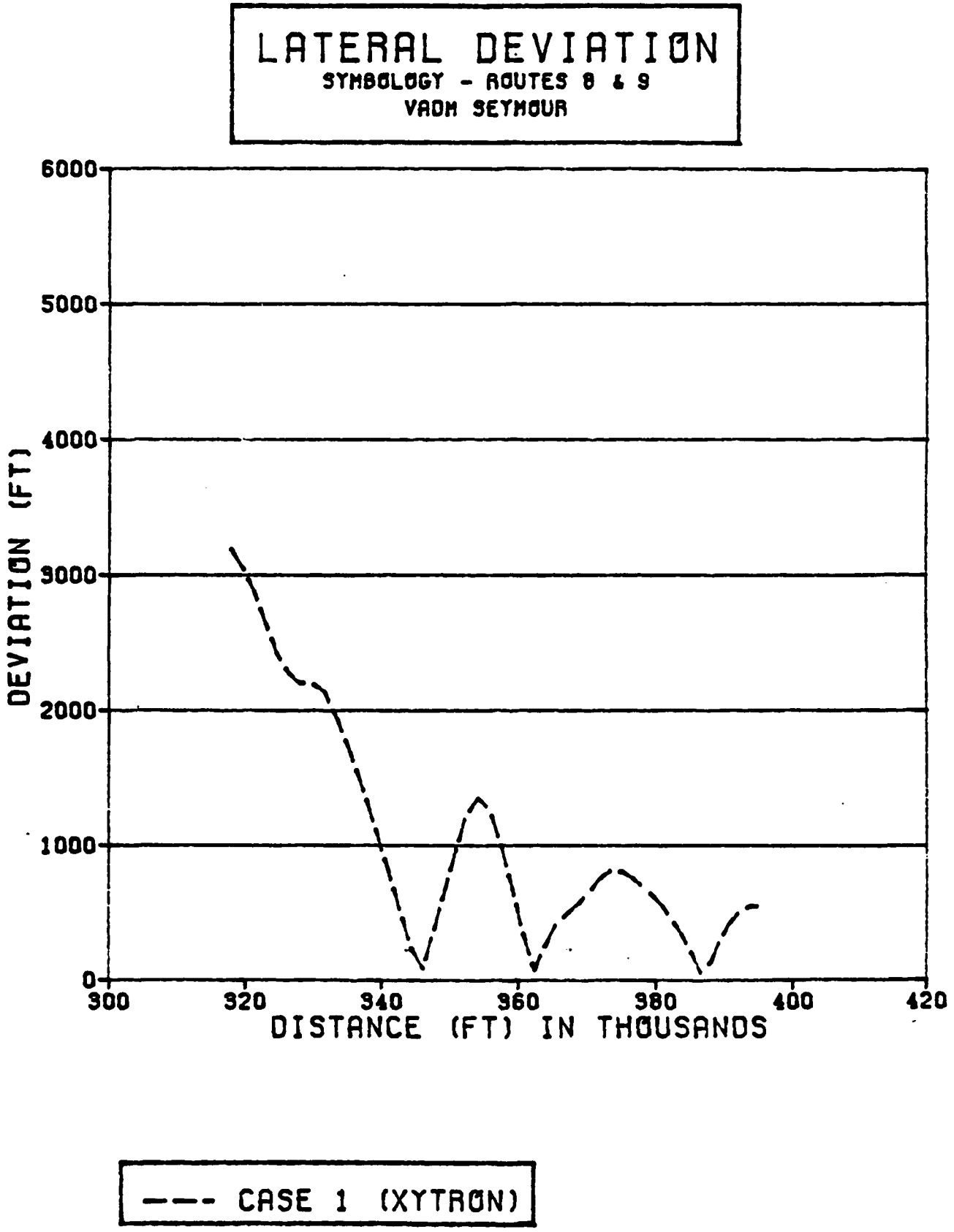

ALTITUDE
CFPD - ROUTES 10 & 11
VADM SEYMOUR
2200
1800
1400
1000
600
200
-200
ALTITUDE (FT)
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)

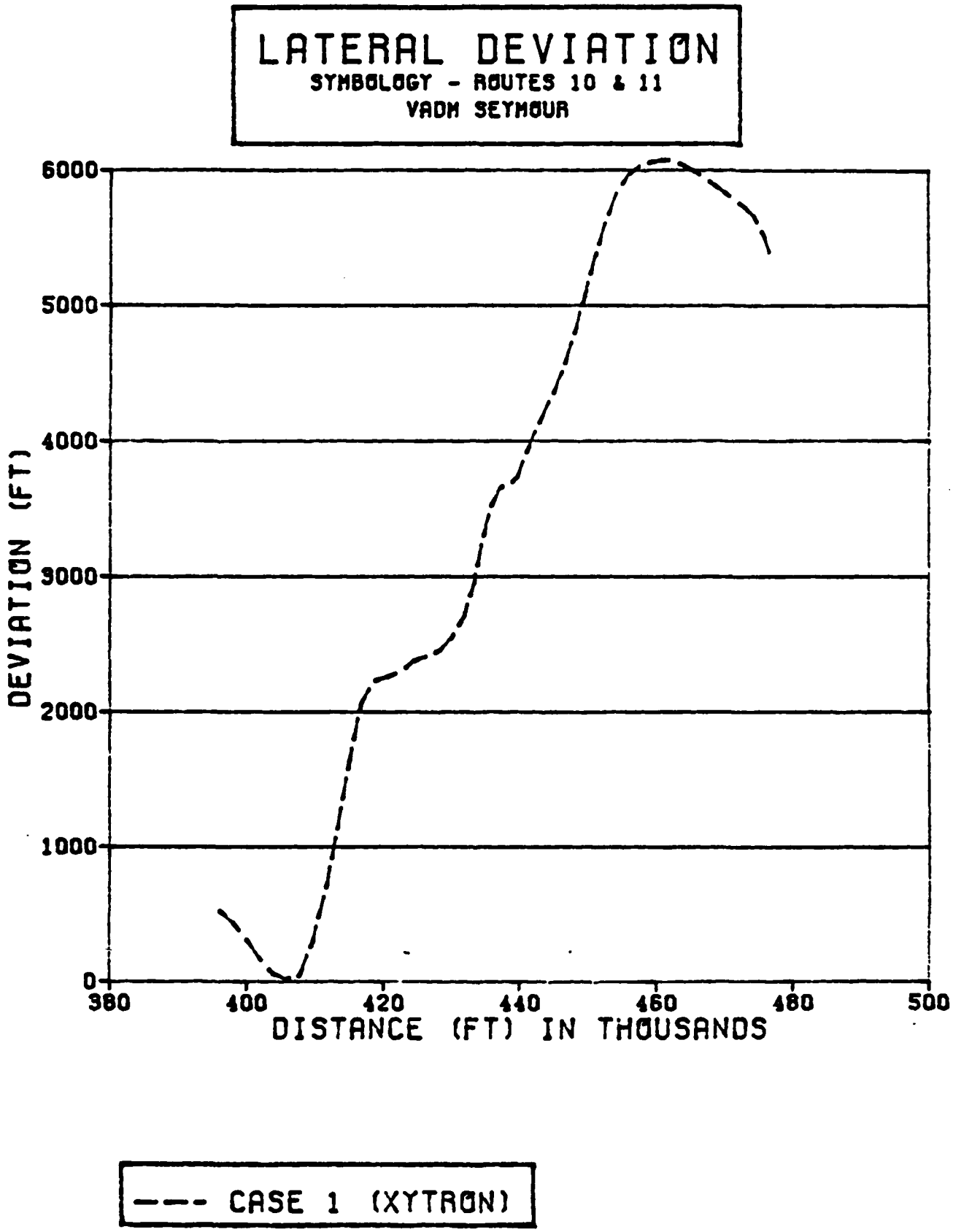

ALTITUDE
CFPD - NIAGARA 28R
VADM SEYMOUR
2800
2400
2000
1600
1200
800
400
ALTITUDE (FT)
40
60
80
100
120
140
160
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)

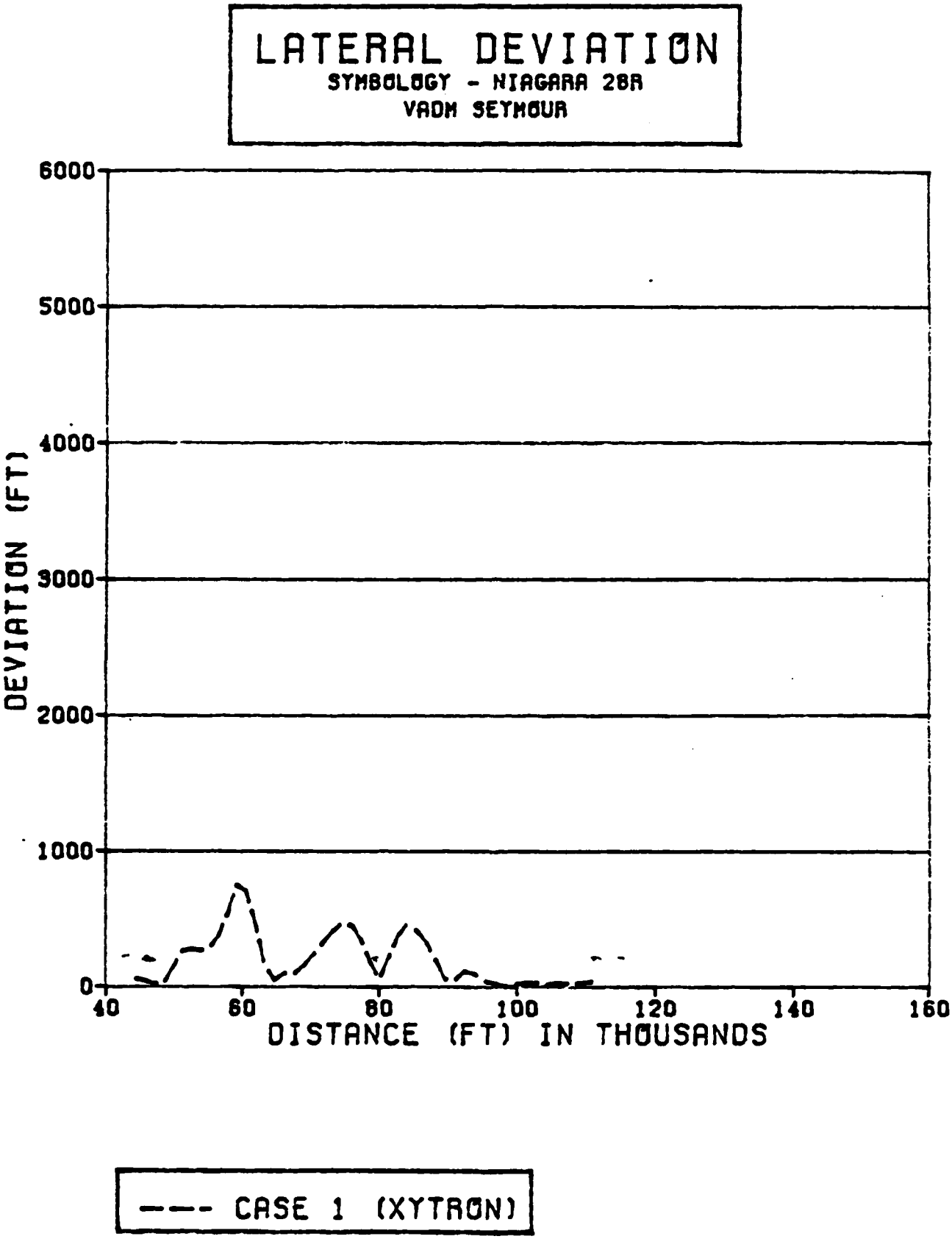

LATERAL DEVIATION
SYMBOLOGY - ROUTES 2 & 3
VADM SEYMOUR
6000
5000
4000
3000
2000
1000
0
DEVIATION (FT)
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
--- CASE 1 (XYTRON)

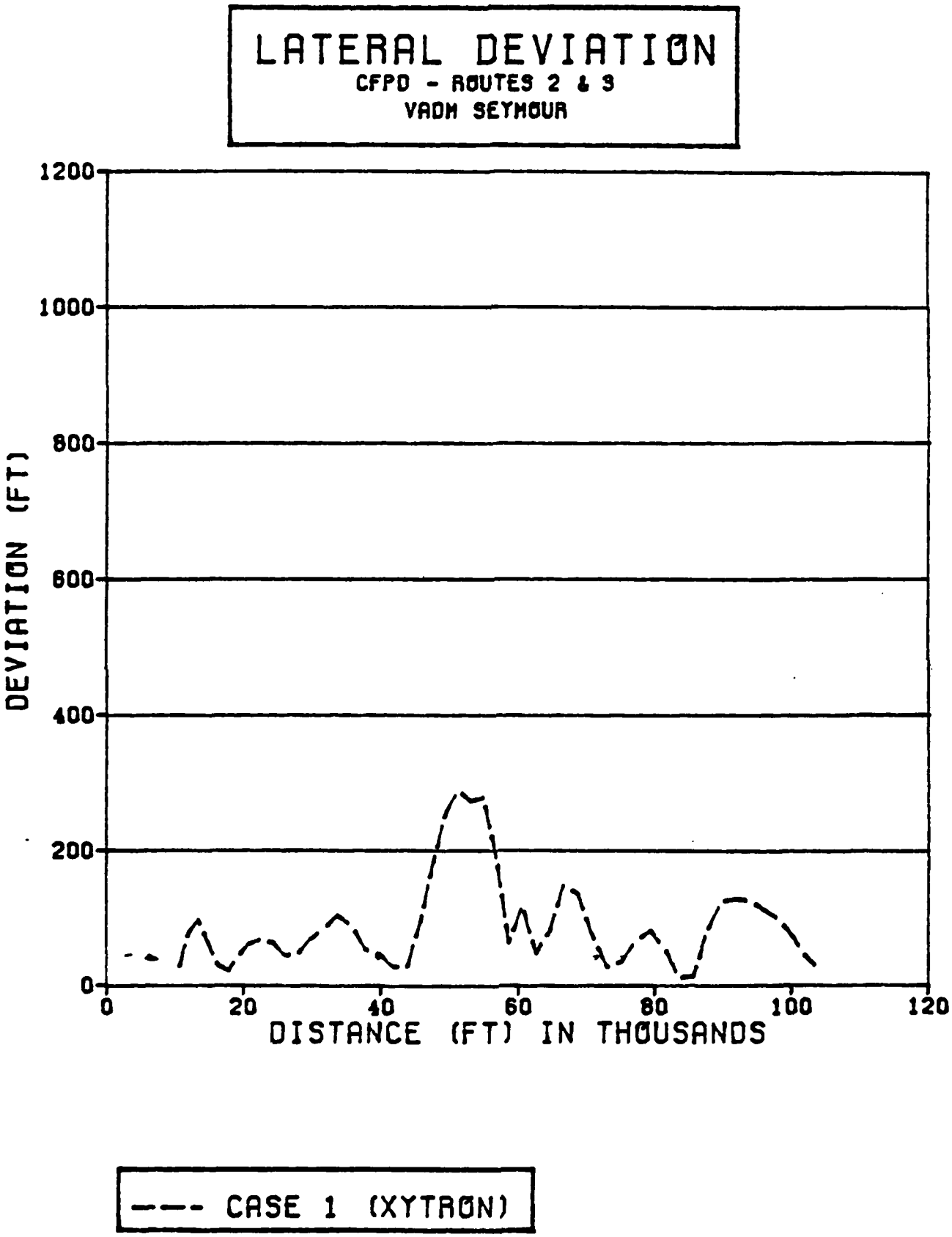

LATERAL DEVIATION
SYMBOLOGY - ROUTES 4 & 5
VADM SEYMOUR
6000
5000
4000
3000
2000
1000
0
DEVIATION (FT)
90
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
--- CASE 1 (XYTRON)

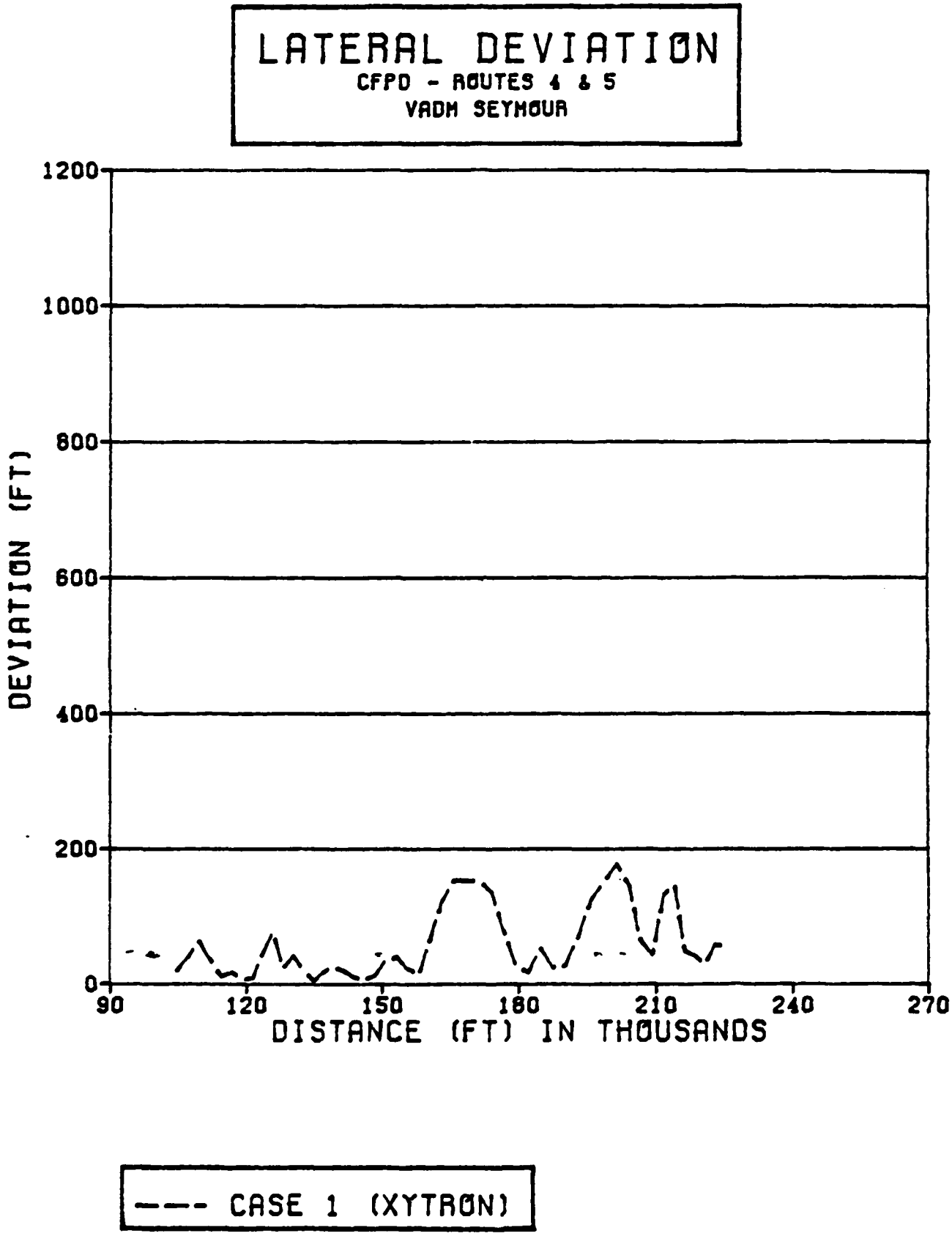

LATERAL DEVIATION
SYMBOLOGY - ROUTES 6 & 7
VADM SEYMOUR
6000
5000
4000
3000
2000
1000
0
DEVIATION (FT)
220
240
260
280
300
320
340
DISTANCE (FT) IN THOUSANDS
--- CASE 1 (XYTRON)

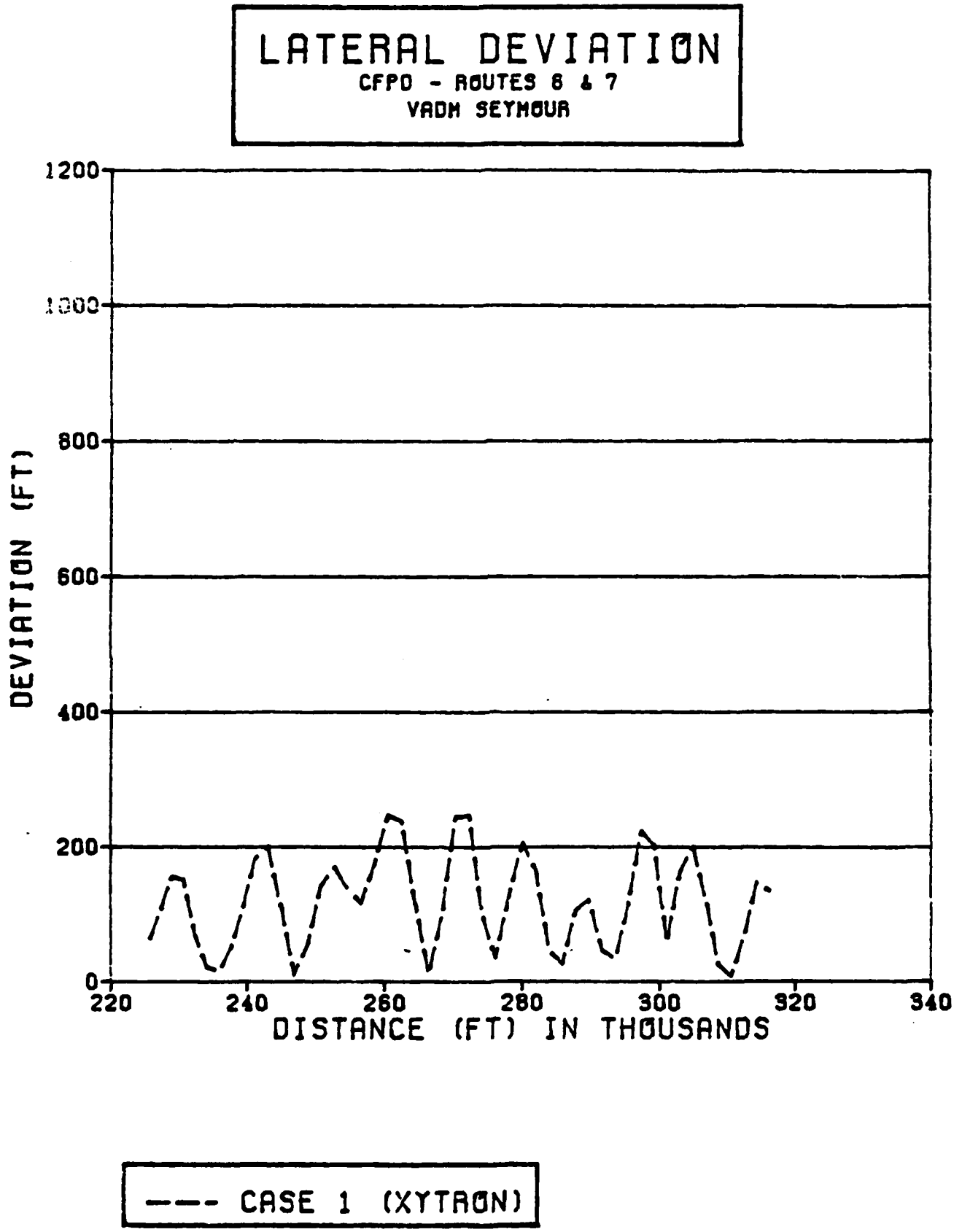

LATERAL DEVIATION
SYMBOLOGY - ROUTES 8 & 9
VADM SEYMOUR
6000
5000
4000
3000
2000
1000
0
DEVIATION (FT)
300
320
340
360
380
400
420
DISTANCE (FT) IN THOUSANDS
--- CASE 1 (XYTRON)

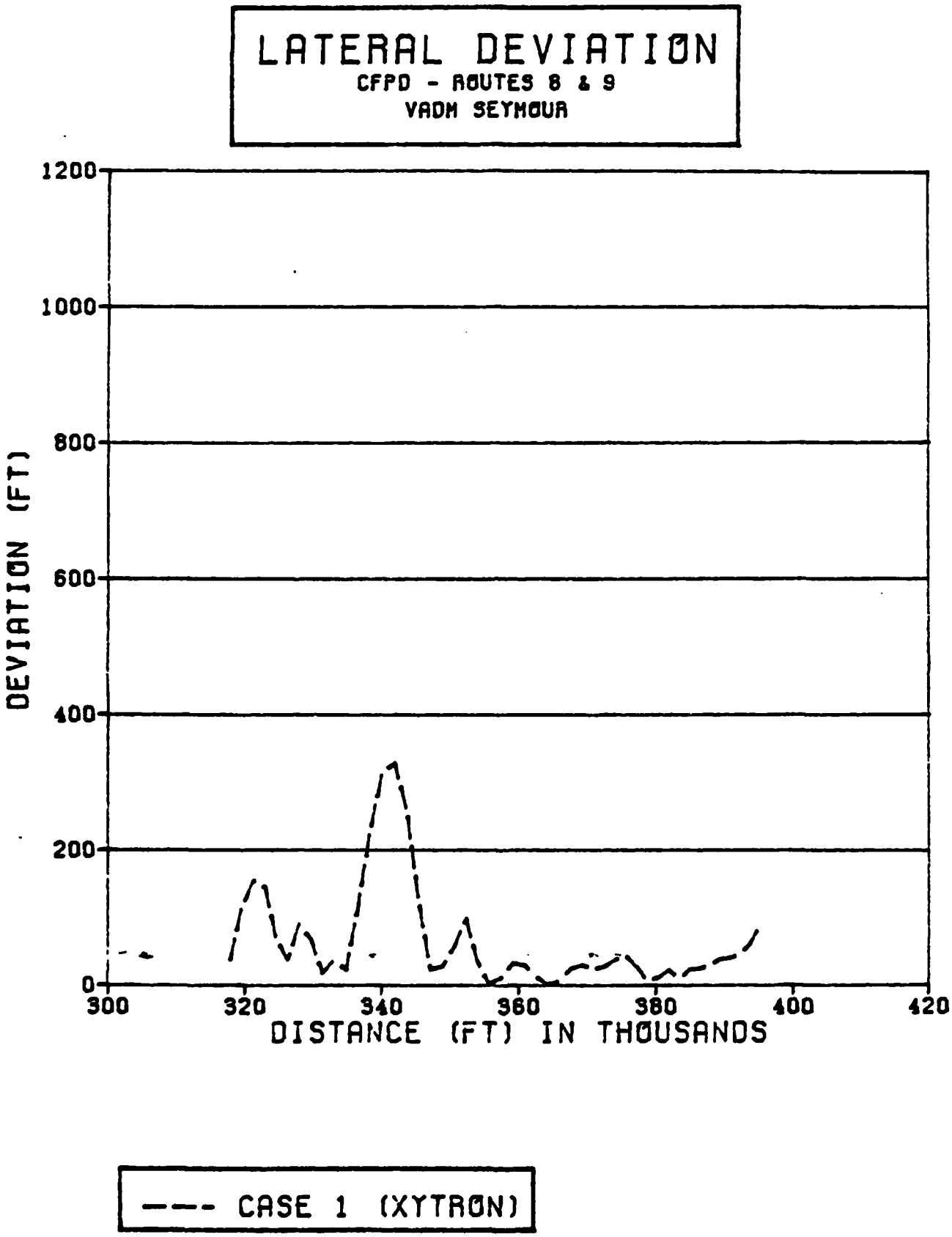

LATERAL DEVIATION
SYMBOLOGY - ROUTES 10 & 11
VADM SEYMOUR
6000
5000
4000
3000
2000
1000
0
DEVIATION (FT)
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
CASE 1 (XYTRON)

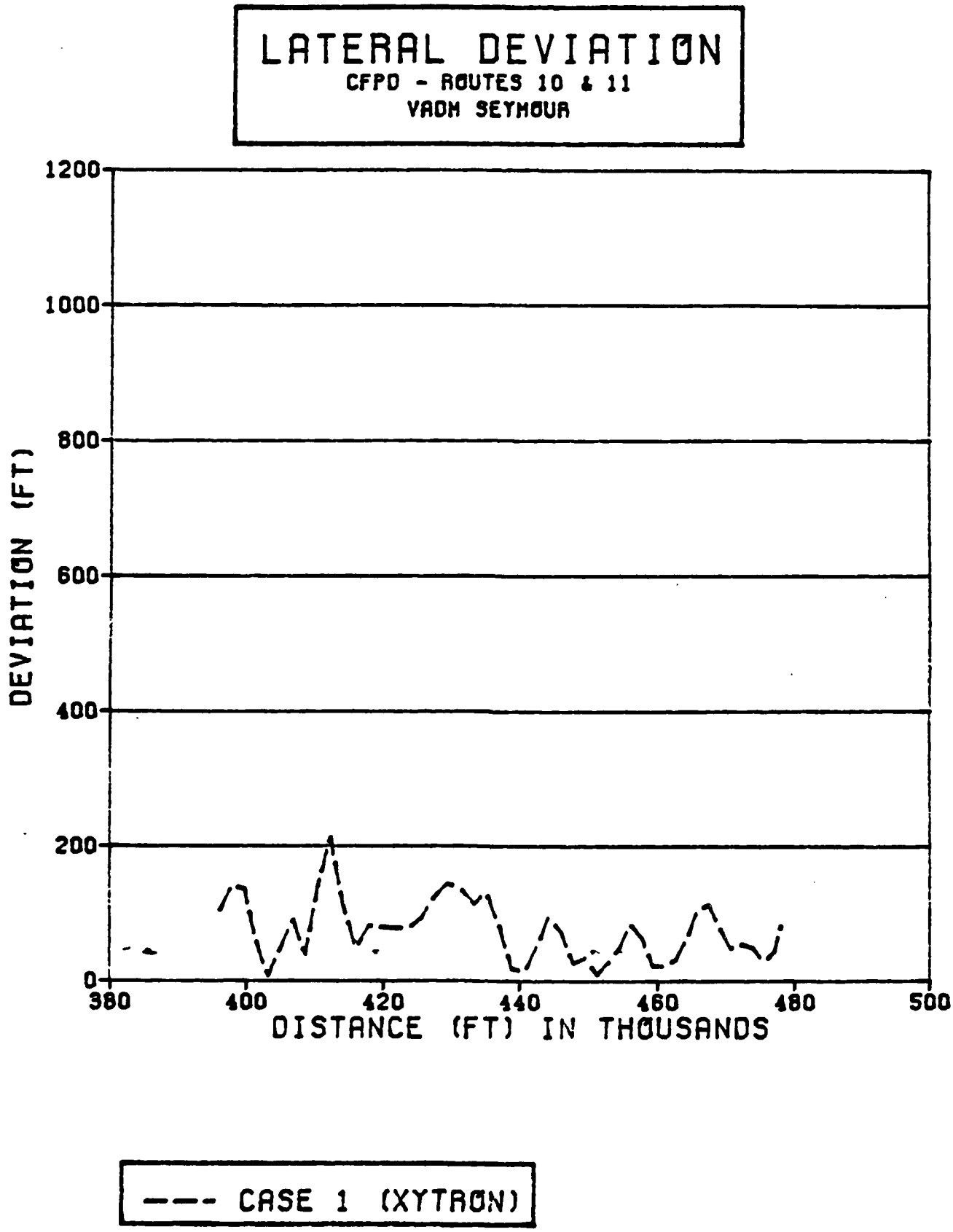

LATERAL DEVIATION
SYMBOLOGY - NIAGARA 28R
VADM SEYMOUR
6000
5000
4000
3000
2000
1000
0
DEVIATION (FT)
40
60
80
100
120
140
160
DISTANCE (FT) IN THOUSANDS
CASE 1 (XYTRON)

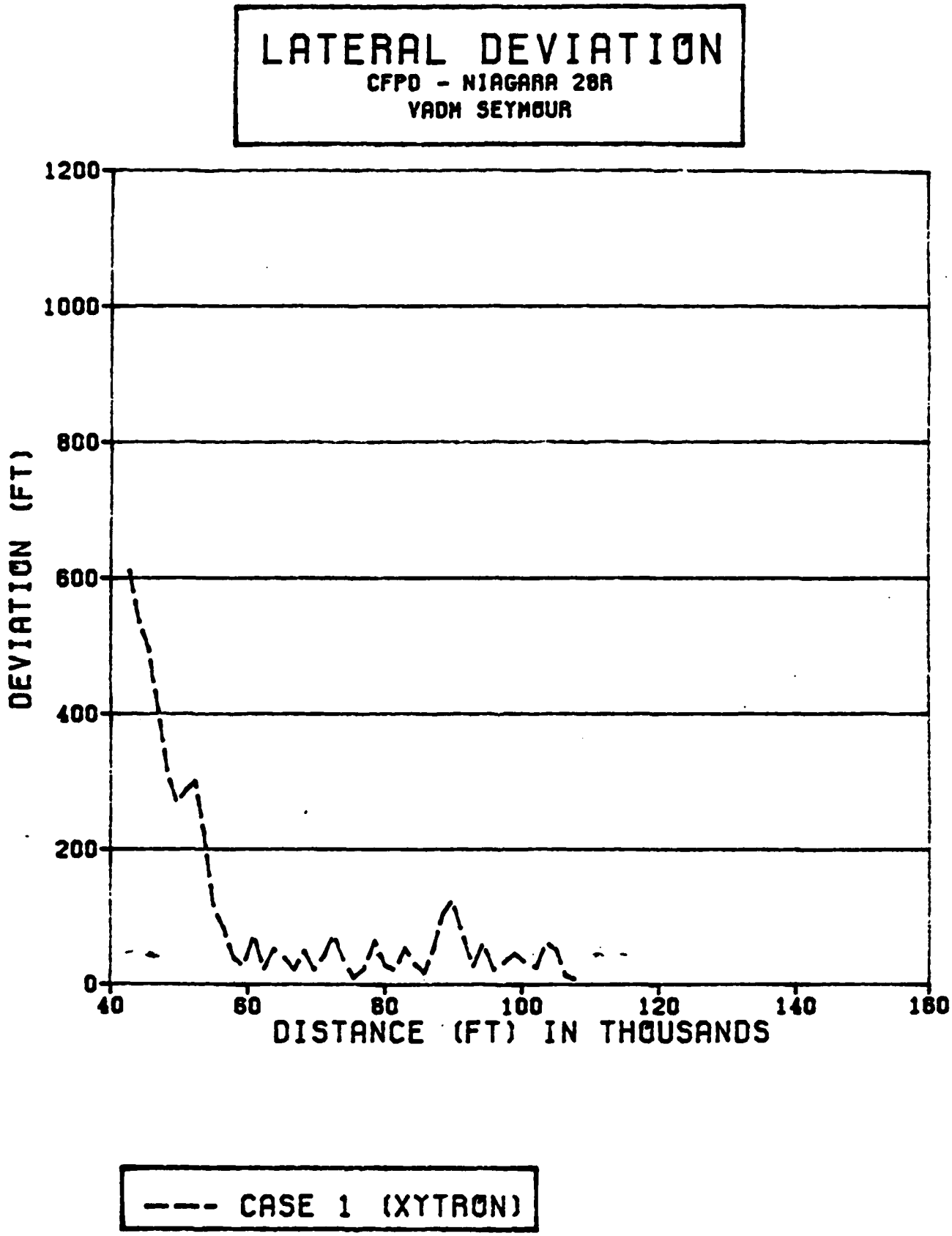

LATERAL DEVIATION
CFPD - ROUTES 2 & 3
VADM SEYMOUR
1200
1000
800
600
400
200
0
DEVIATION (FT)
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
--- CASE 1 (XYTRON)

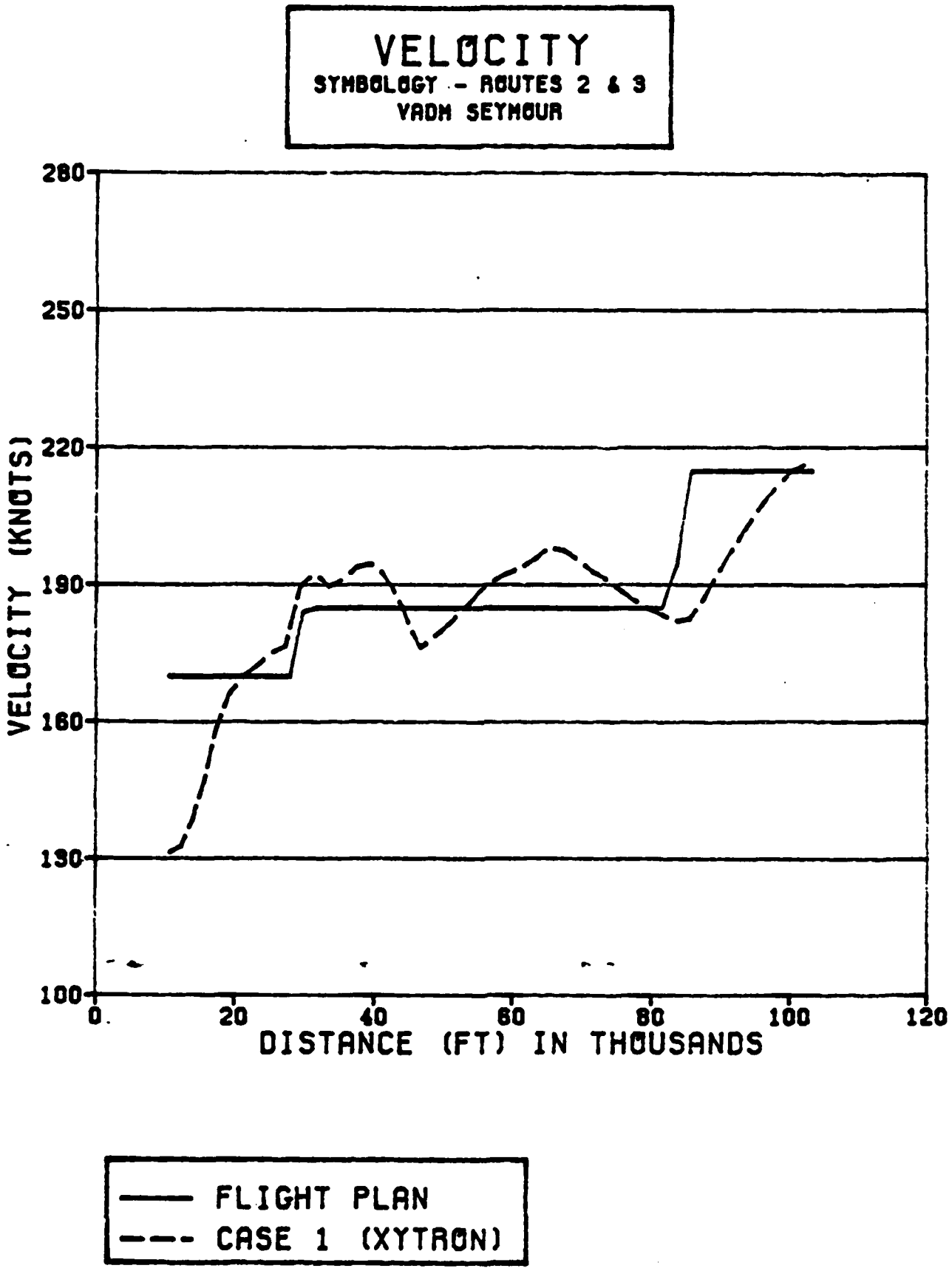

LATERAL DEVIATION
CFPD - ROUTES 4 & 5
VADM SEYMOUR
1200
1000
800
600
400
200
0
DEVIATION (FT)
90
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
CASE 1 (XYTRON)

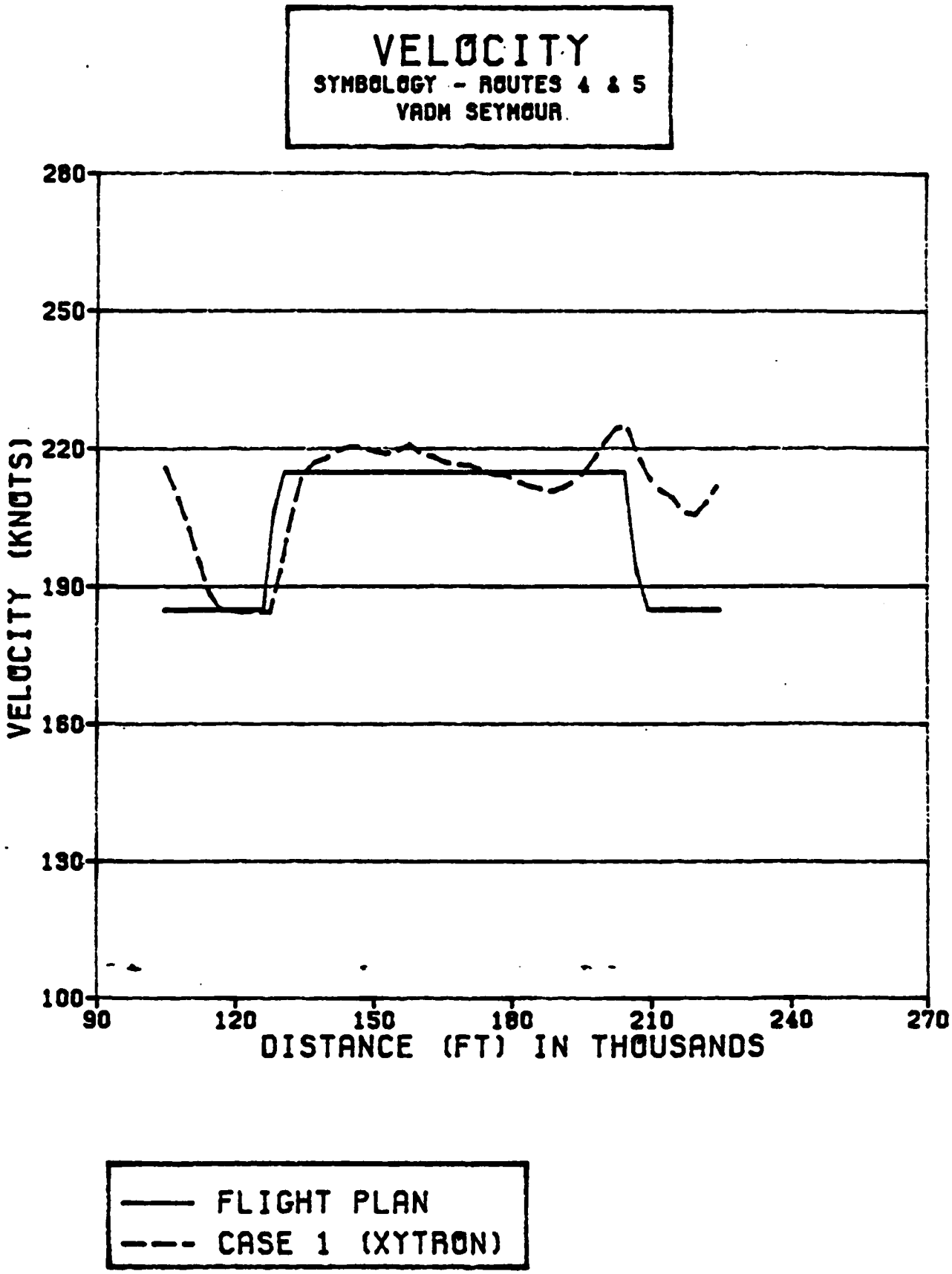

LATERAL DEVIATION
CFPD - ROUTES 6 & 7
VADM SEYMOUR
1200
1000
800
600
400
200
0
DEVIATION (FT)
220
240
260
280
300
320
340
DISTANCE (FT) IN THOUSANDS
--- CASE 1 (XYTRON)

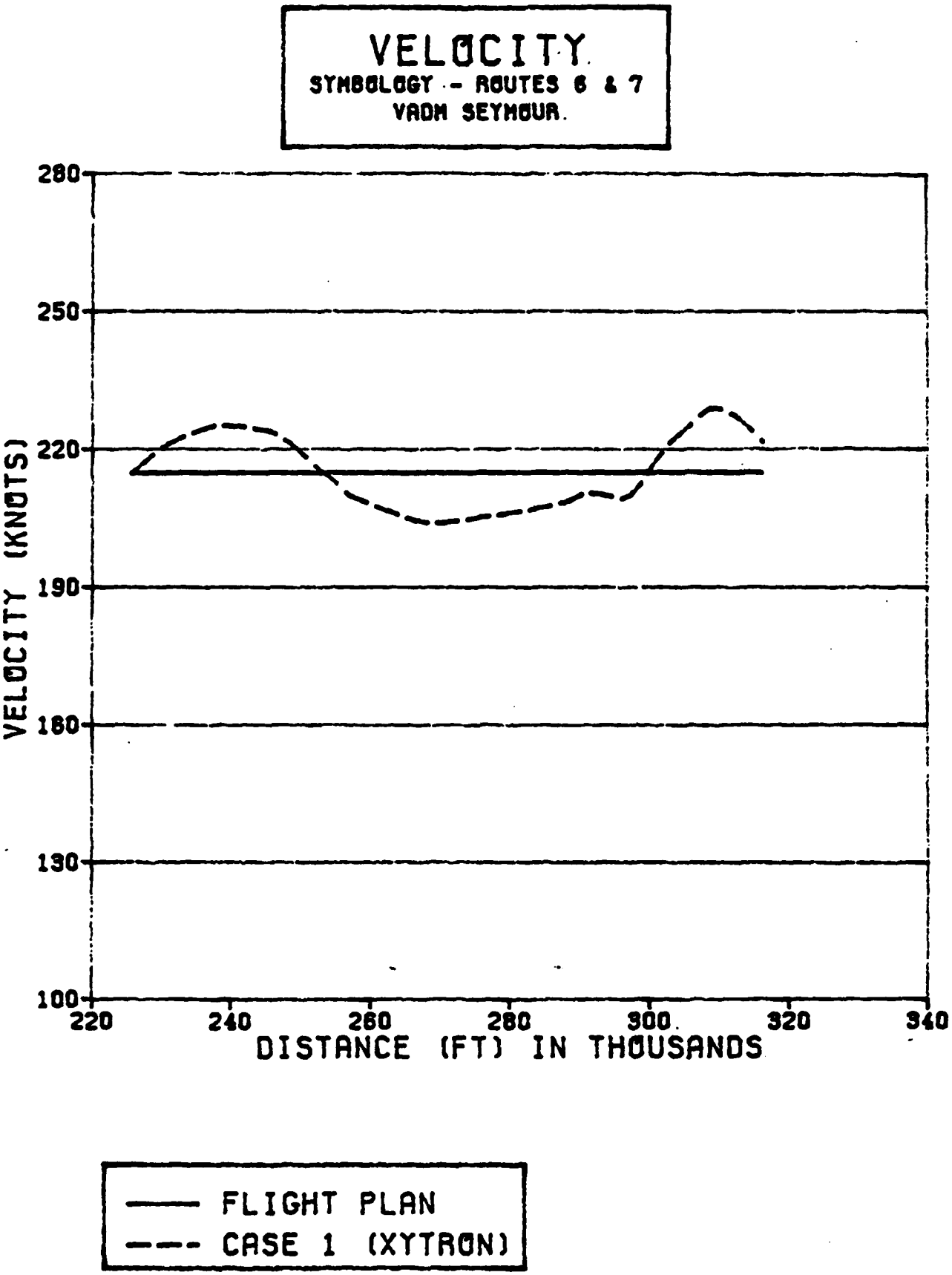

LATERAL DEVIATION
CFPD - ROUTES 8 & 9
VADM SEYMOUR
1200
1000
800
600
400
200
0
DEVIATION (FT)
300
320
340
360
380
400
420
DISTANCE (FT) IN THOUSANDS
--- CASE 1 (XYTRON)

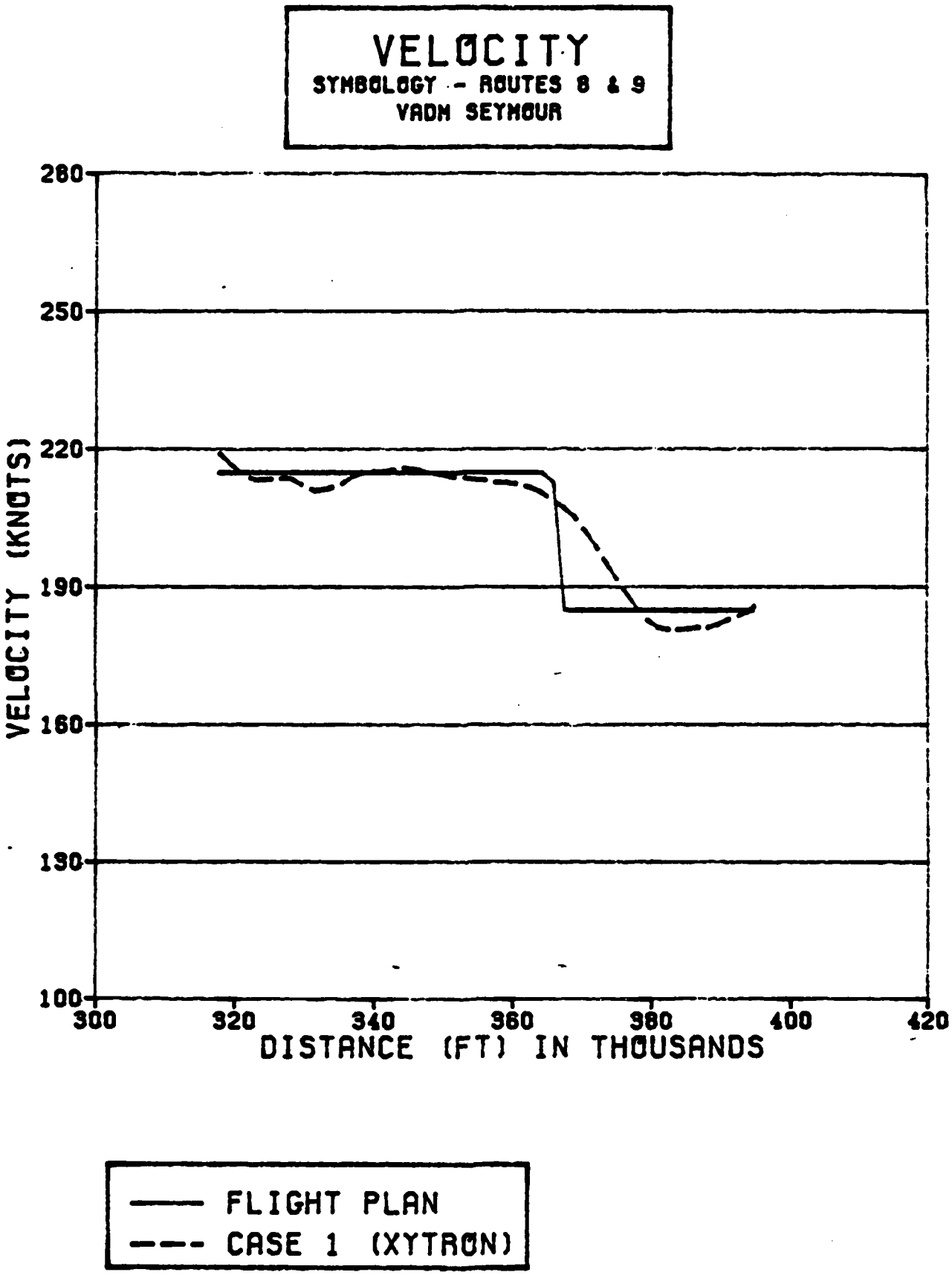

LATERAL DEVIATION
CFPO - ROUTES 10 & 11
VADM SEYMOUR
1200
1000
800
600
400
200
0
DEVIATION (FT)
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
CASE 1 (XYTRON)

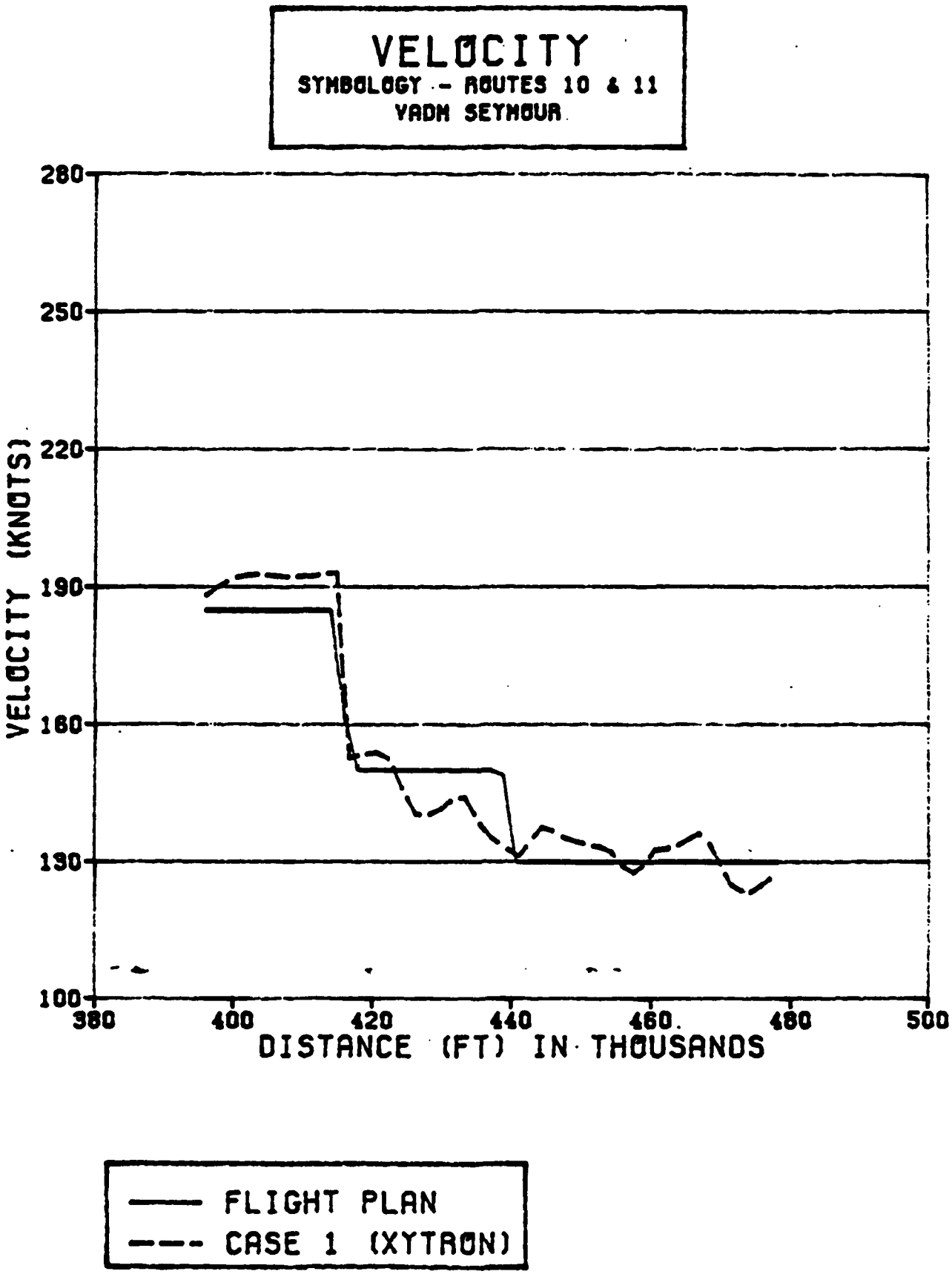

LATERAL DEVIATION
CFPD - NIAGARA 28R
VADM SEYMOUR
1200
1000
800
600
400
200
0
DEVIATION (FT)
40
60
80
100
120
140
160
DISTANCE (FT) IN THOUSANDS
CASE 1 (XYTRON)

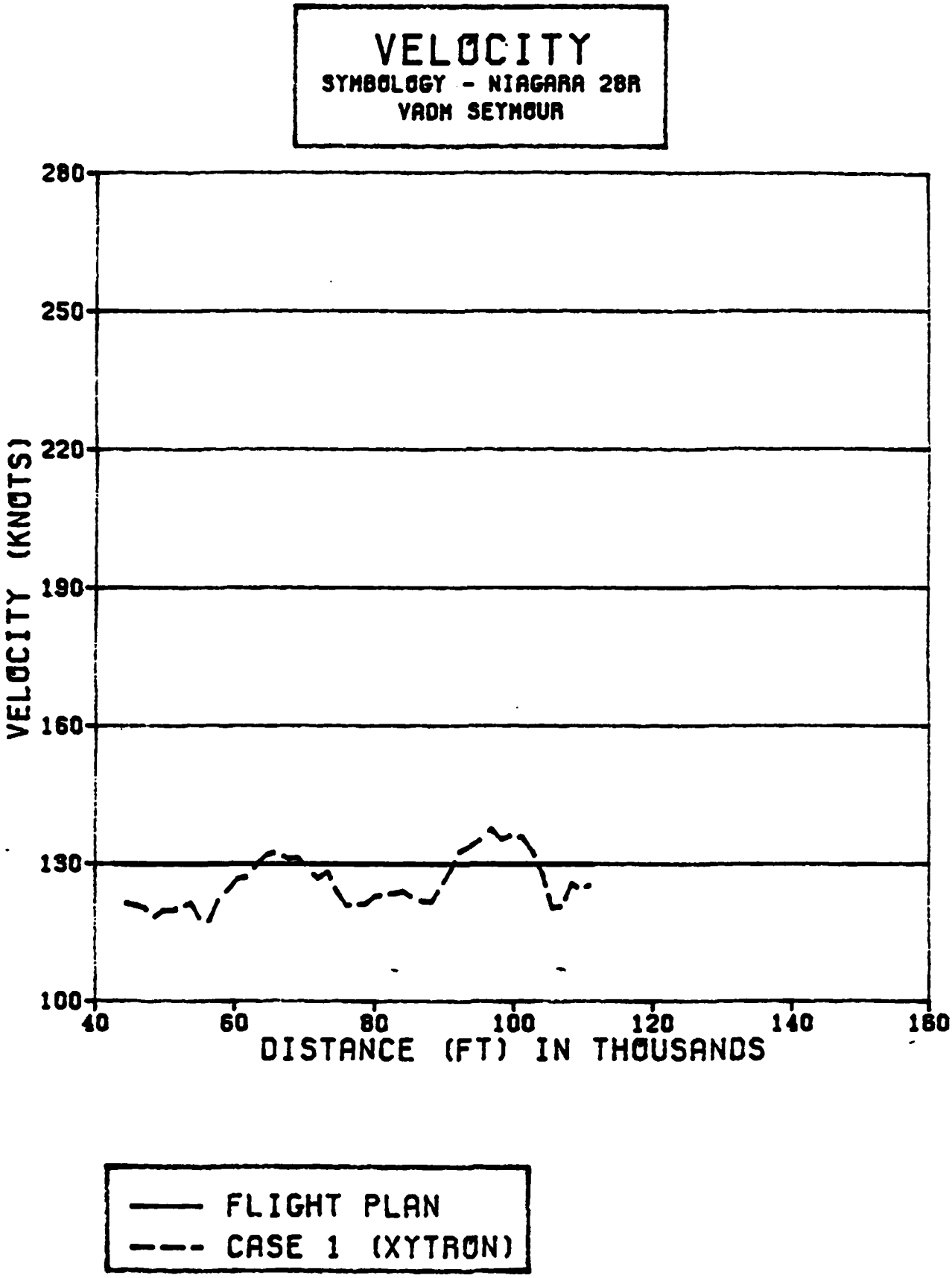

VELOCITY
SYMBOLOGY - ROUTES 2 & 3
VADM SEYMOUR
280
250
220
190
160
130
100
VELOCITY (KNOTS)
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)

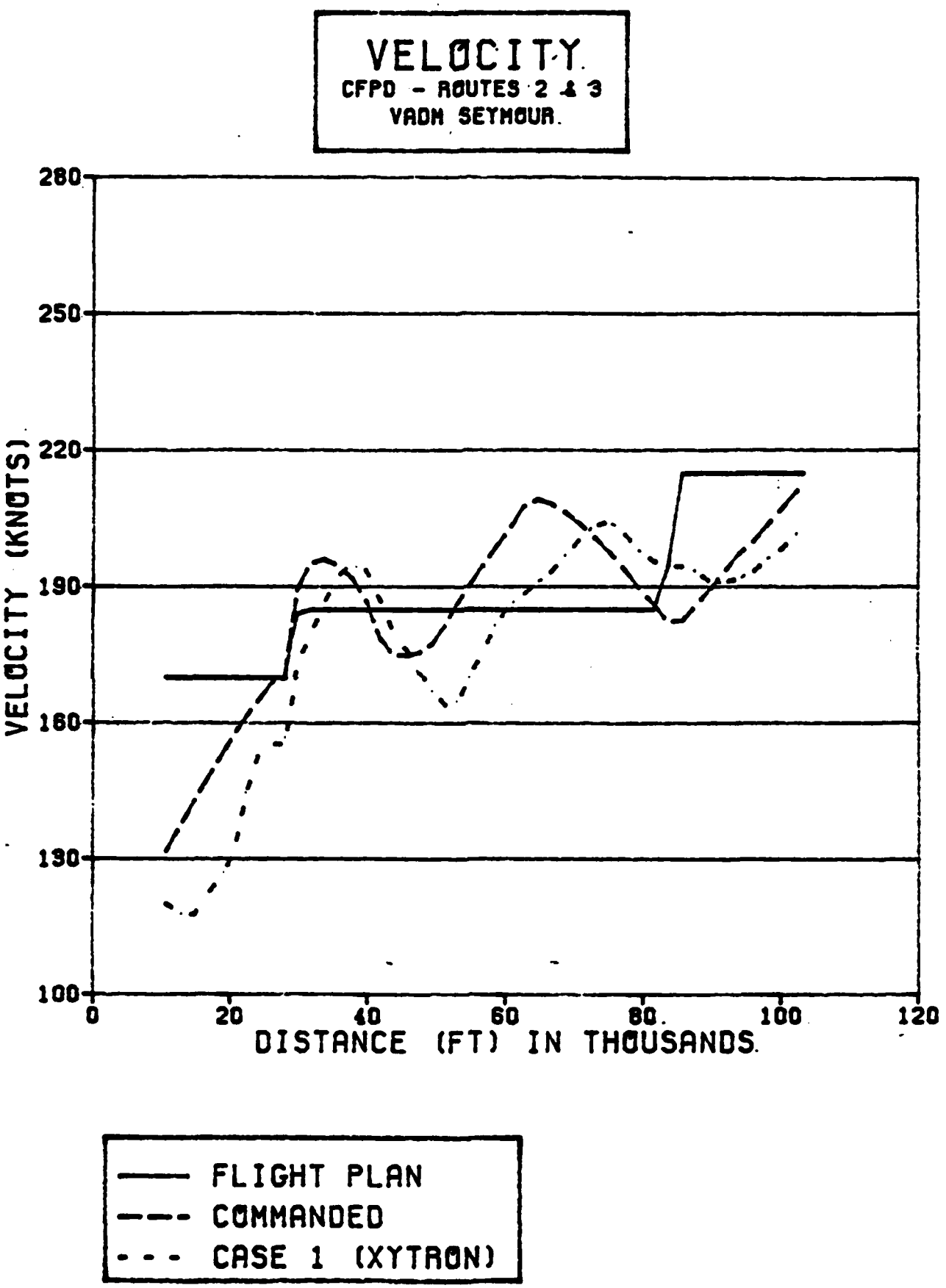

VELOCITY
SYMBOLOGY - ROUTES 4 & 5
VADM SEYMOUR
280
250
220
190
160
130
100
VELOCITY (KNOTS)
90
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)

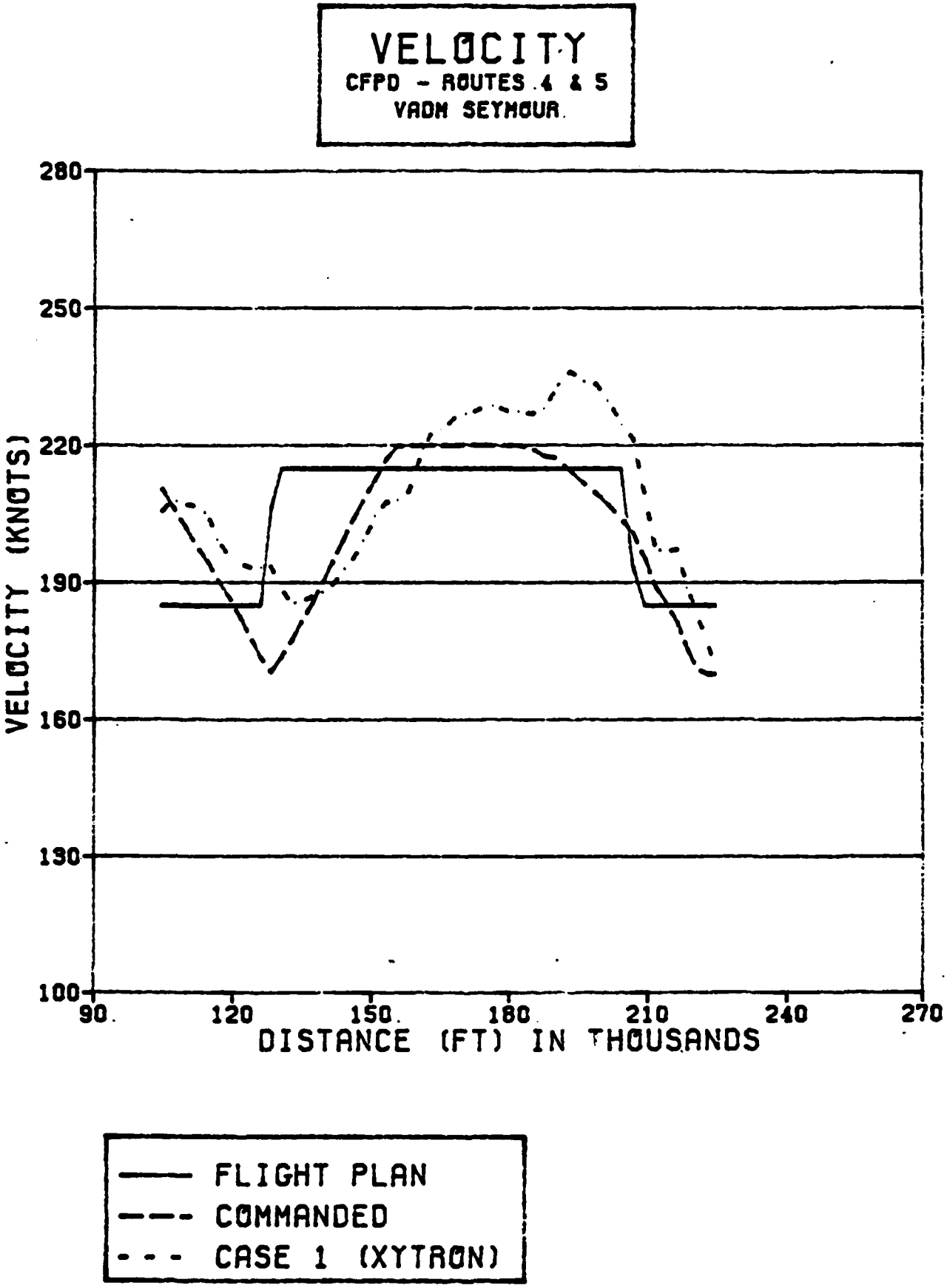

VELOCITY
SYMBOLOGY - ROUTES 6 & 7
VADM SEYMOUR
280
250
220
190
160
130
100
VELOCITY (KNOTS)
220
240
260
280
300
320
340
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)

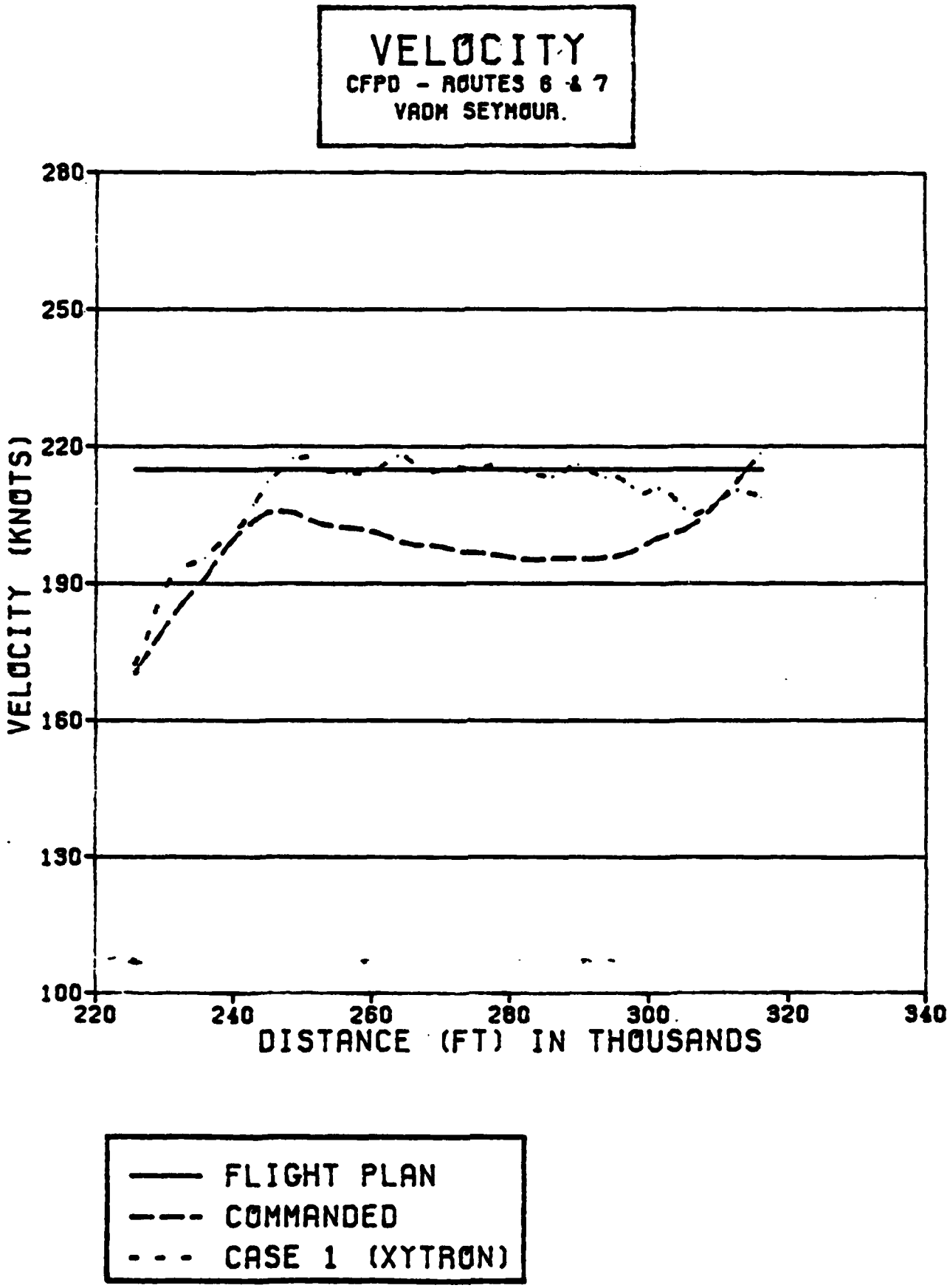

VELOCITY
SYMBOLOGY - ROUTES 8 & 9
VADM SEYMOUR
280
250
220
190
160
130
100
VELOCITY (KNOTS)
300
320
340
360
380
400
420
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)

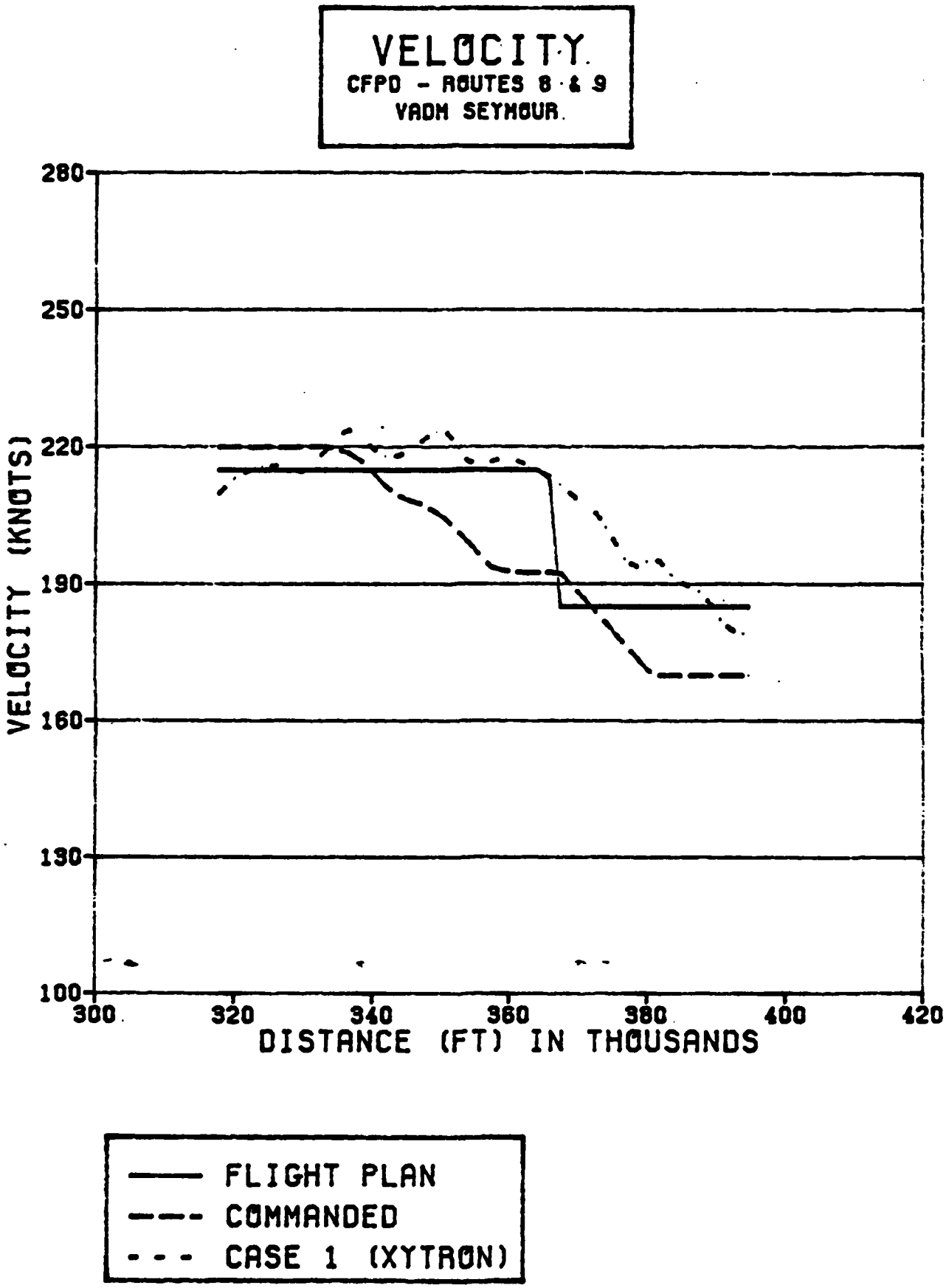

VELOCITY
SYMBOLOGY - ROUTES 10 & 11
YADM SEYMOUR
280
250
220
190
160
130
100
VELOCITY (KNOTS)
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)

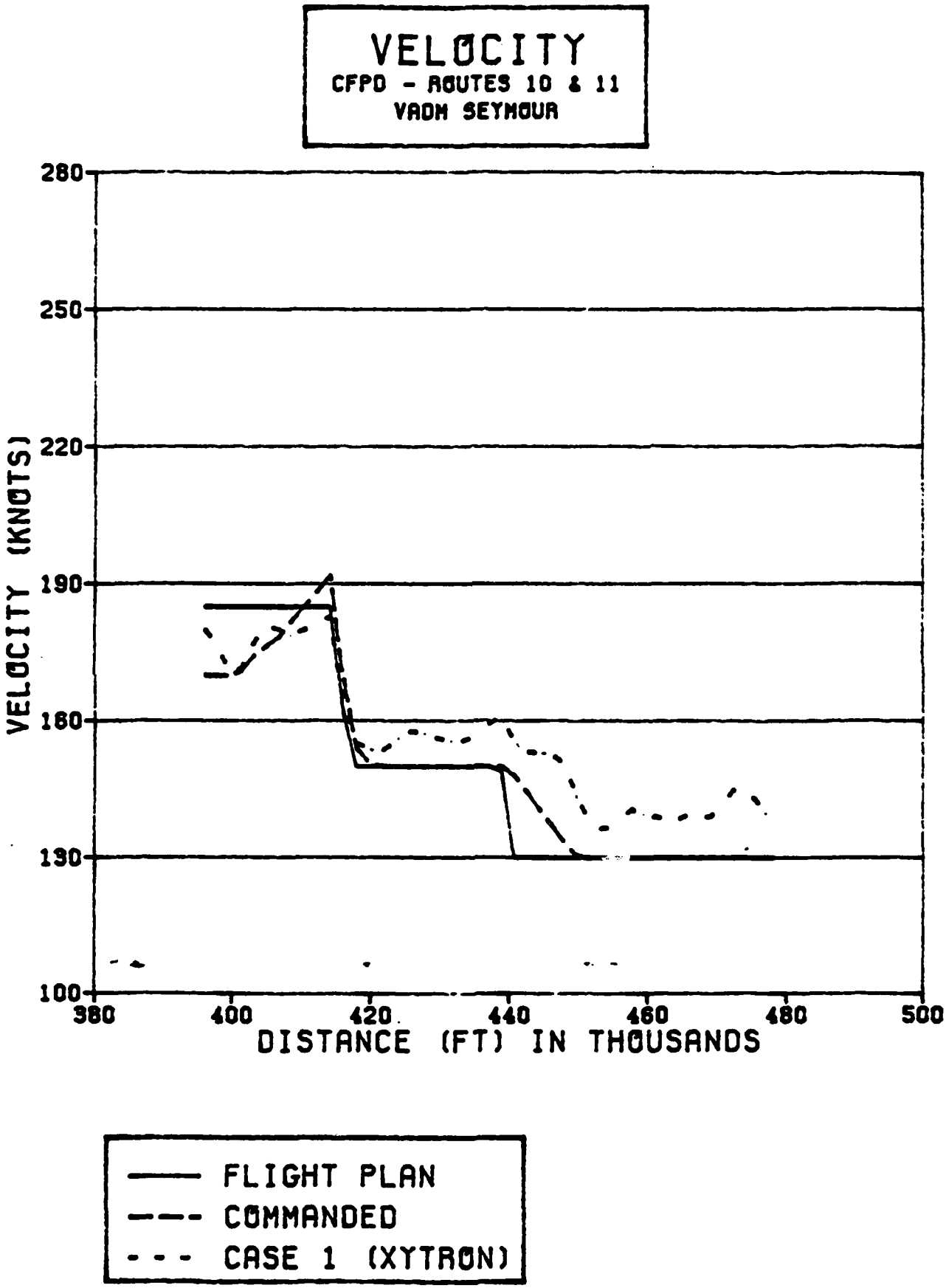

VELOCITY
SYMBOLOGY - NIAGARA 28R
VADM SEYMOUR
280
250
220
190
160
130
100
VELOCITY (KNOTS)
40
60
80
100
120
140
160
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)

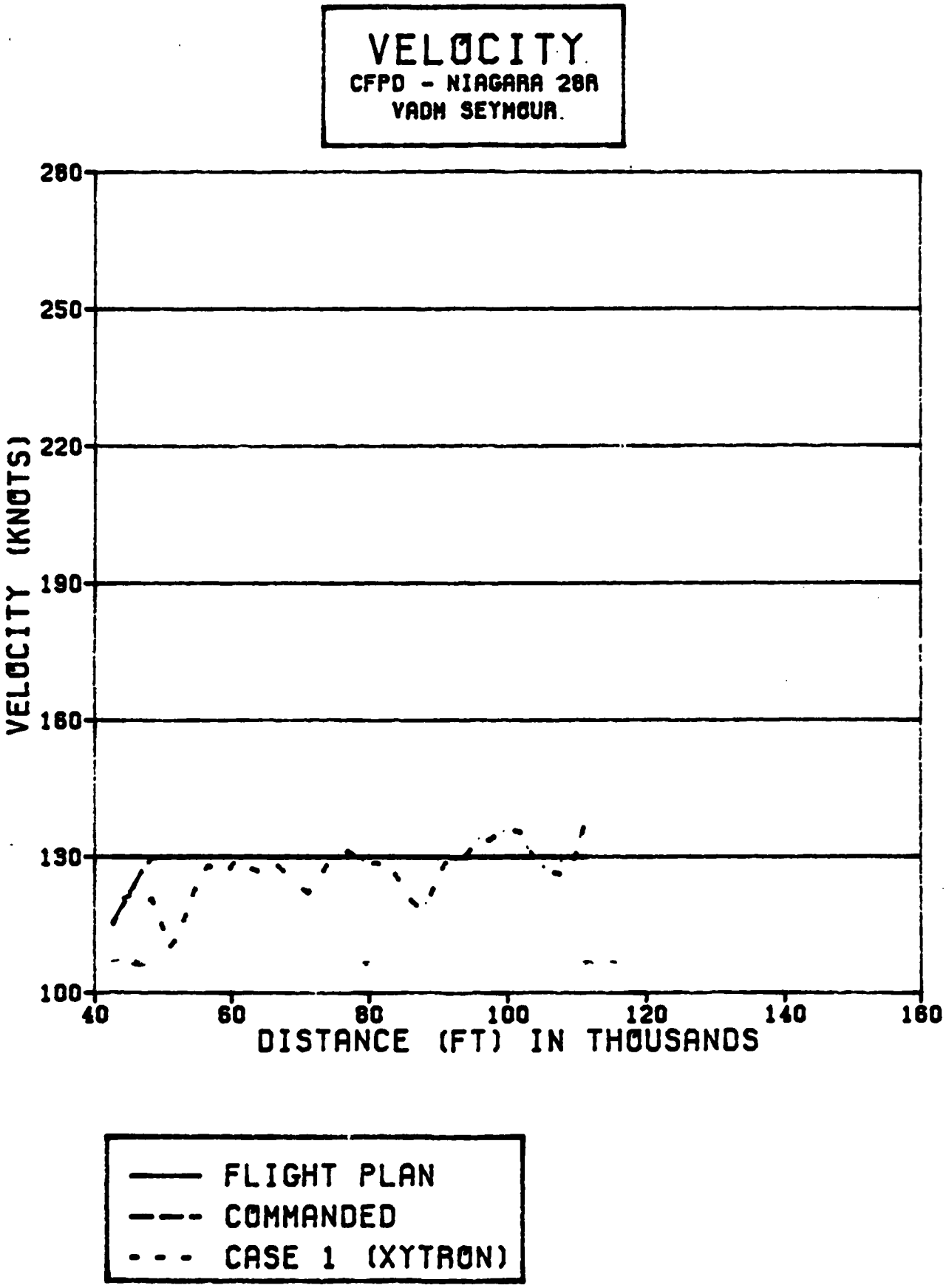

VELOCITY
CFPD - ROUTES 2 & 3
VADM SEYMOUR
280
250
220
190
160
130
100
VELOCITY (KNOTS)
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 1 (XYTRON)

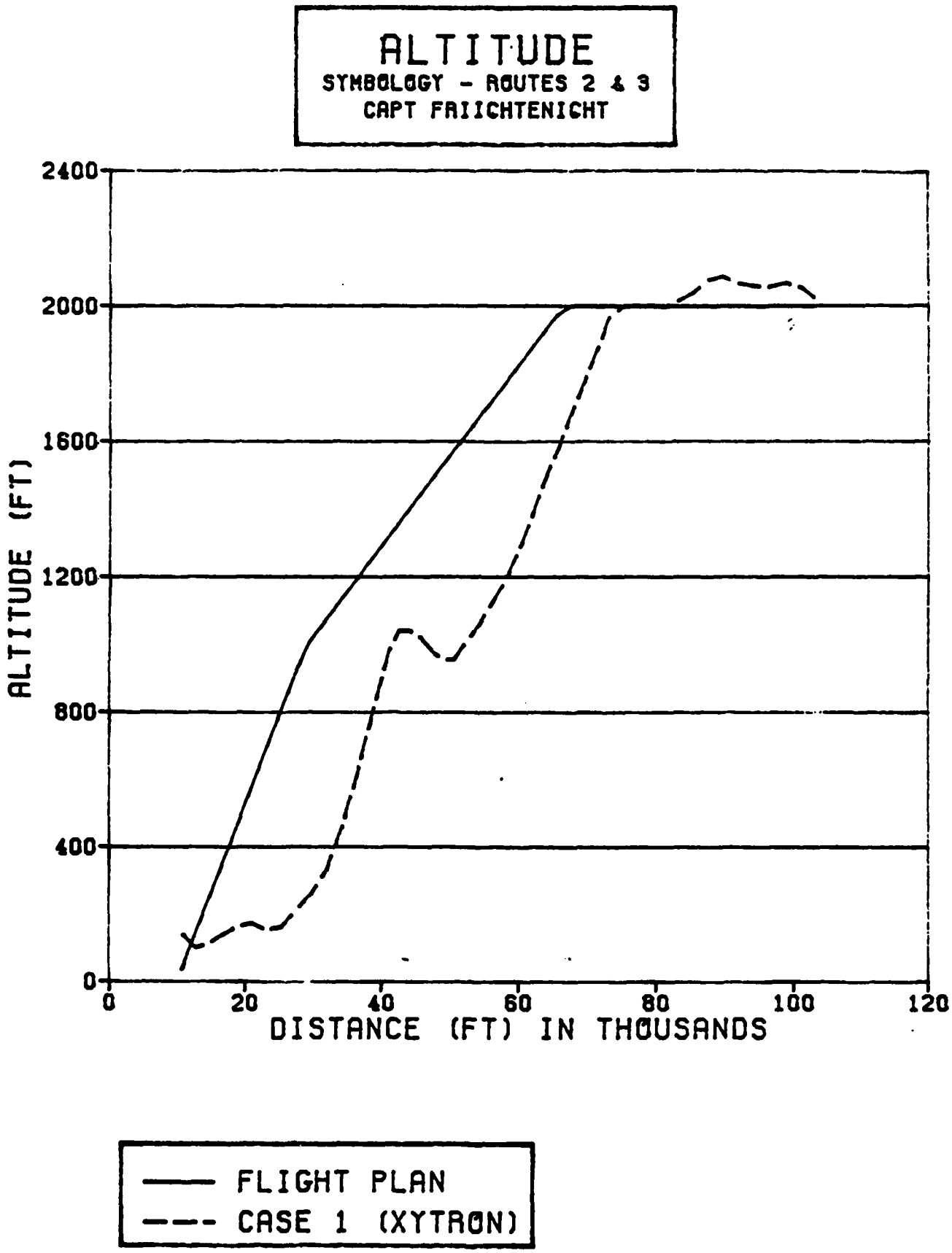

VELOCITY
CFPD - ROUTES 4 & 5
VADM SEYMOUR
280
250
220
190
160
130
100
VELOCITY (KNOTS)
90
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 1 (XYTRON)

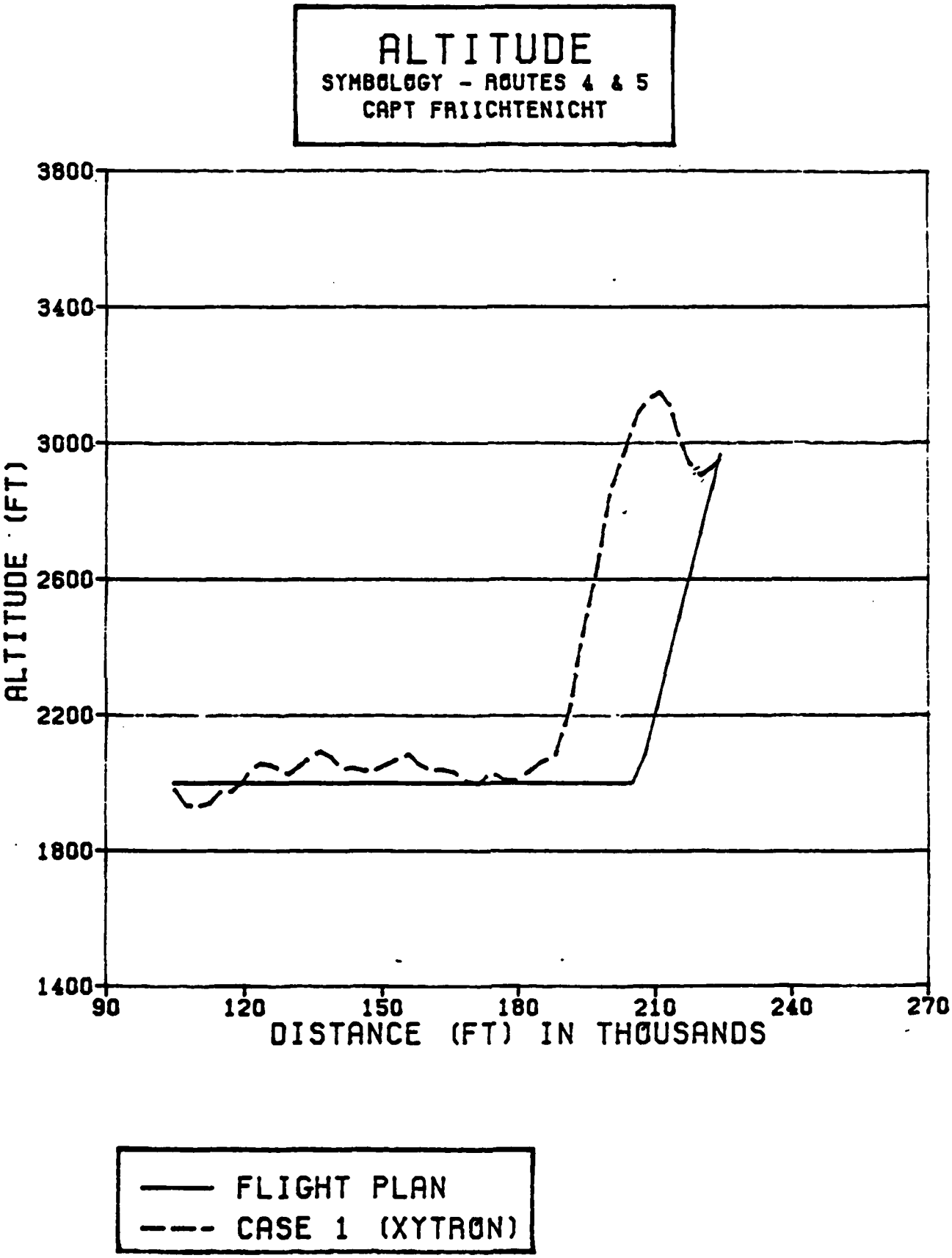

VELØCITY
CFPD - RØUTES 6 & 7
VADM SEYMOUR.
280
250
220
190
160
130
100
VELØCITY (KNØTS)
220
240
260
280
300
320
340
DISTANCE (FT) IN THØUSANDS
FLIGHT PLAN
CØMMANDED
CASE 1 (XYTRØN)

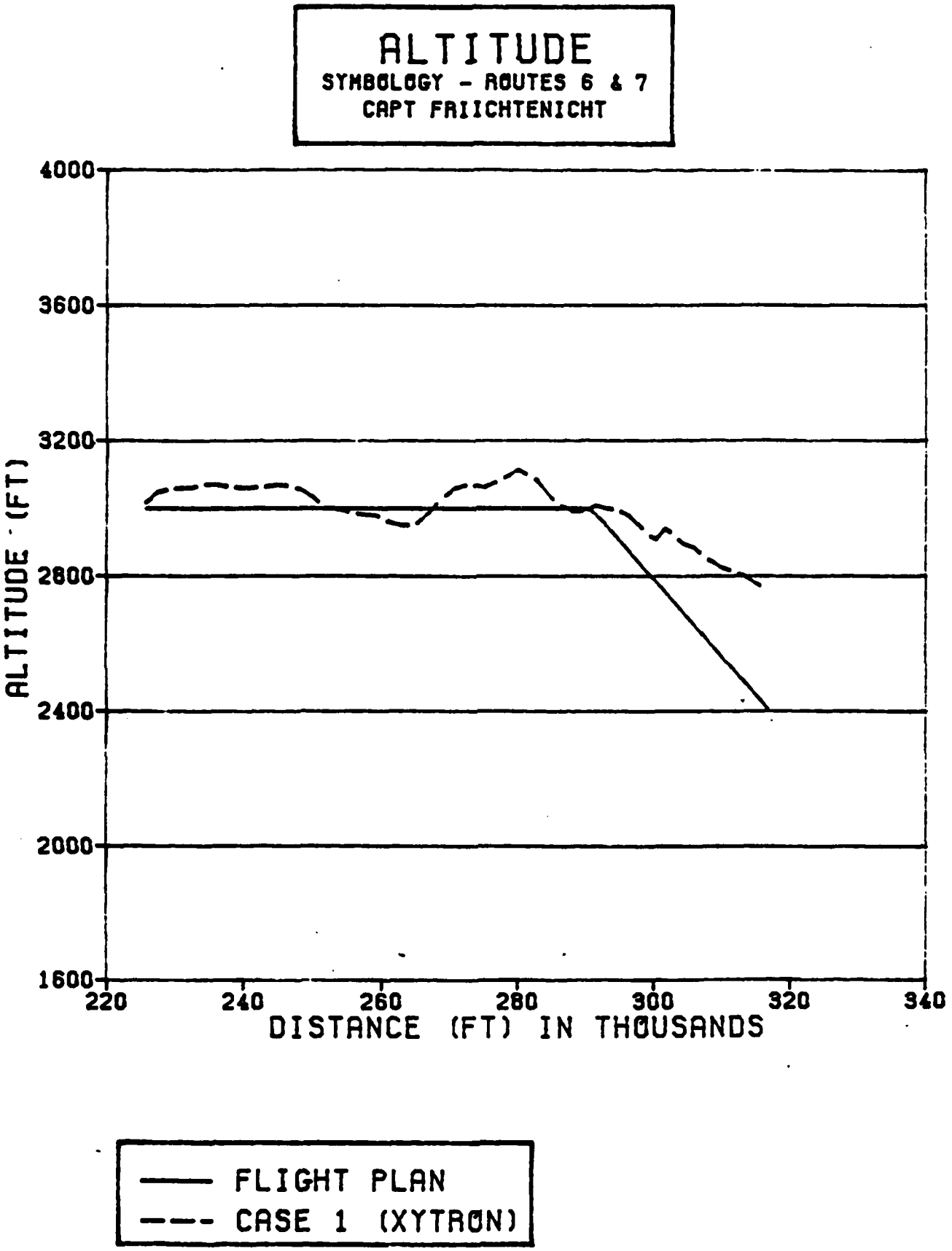

VELOCITY
CFPO - ROUTES 8 & 9
VADM SEYMOUR
280
250
220
190
160
130
100
VELOCITY (KNOTS)
300
320
340
360
380
400
420
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 1 (XYTRON)

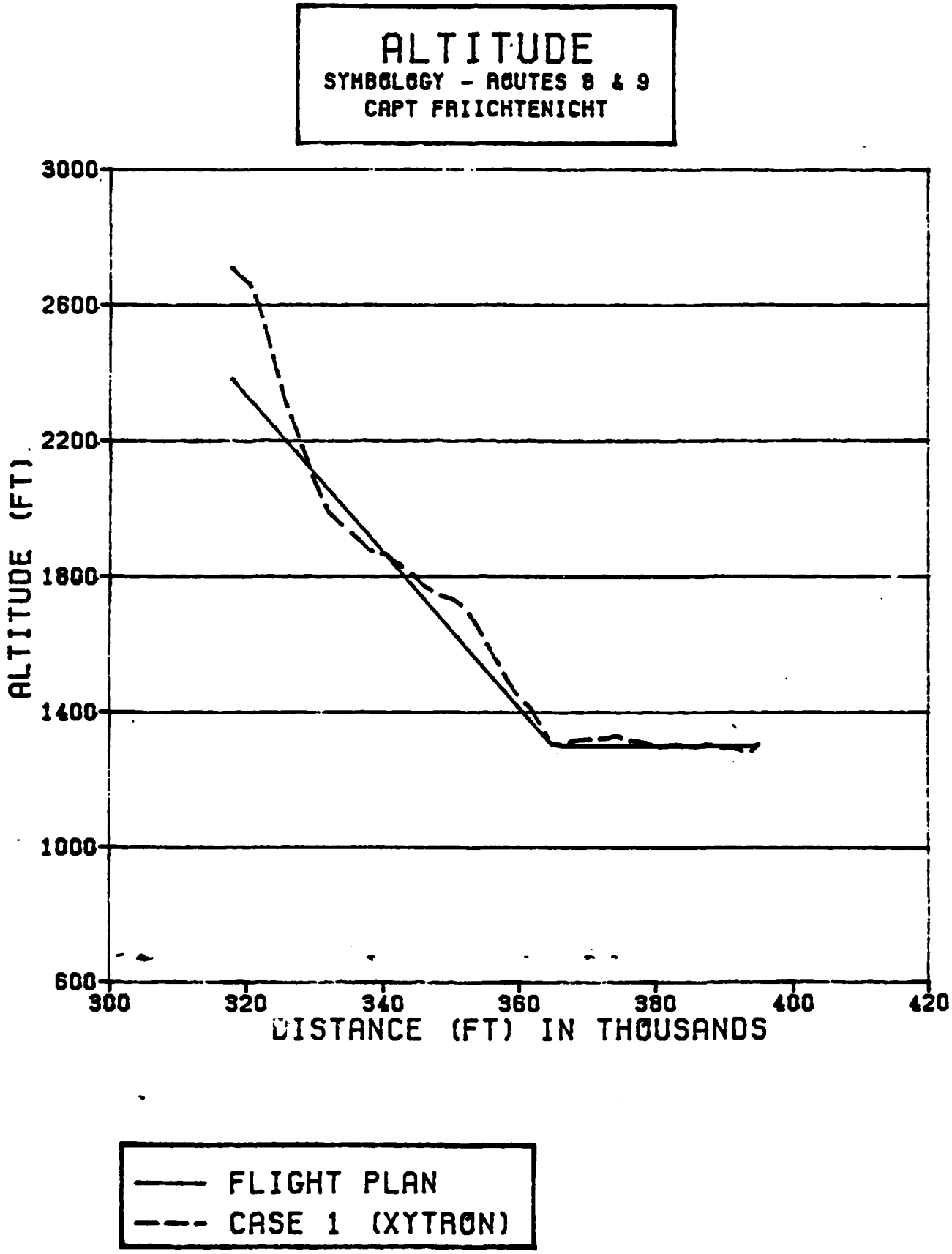

VELOCITY
CFPD - ROUTES 10 & 11
VADM SEYMOUR
280
250
220
190
160
130
100
VELOCITY (KNOTS)
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 1 (XYTRON)

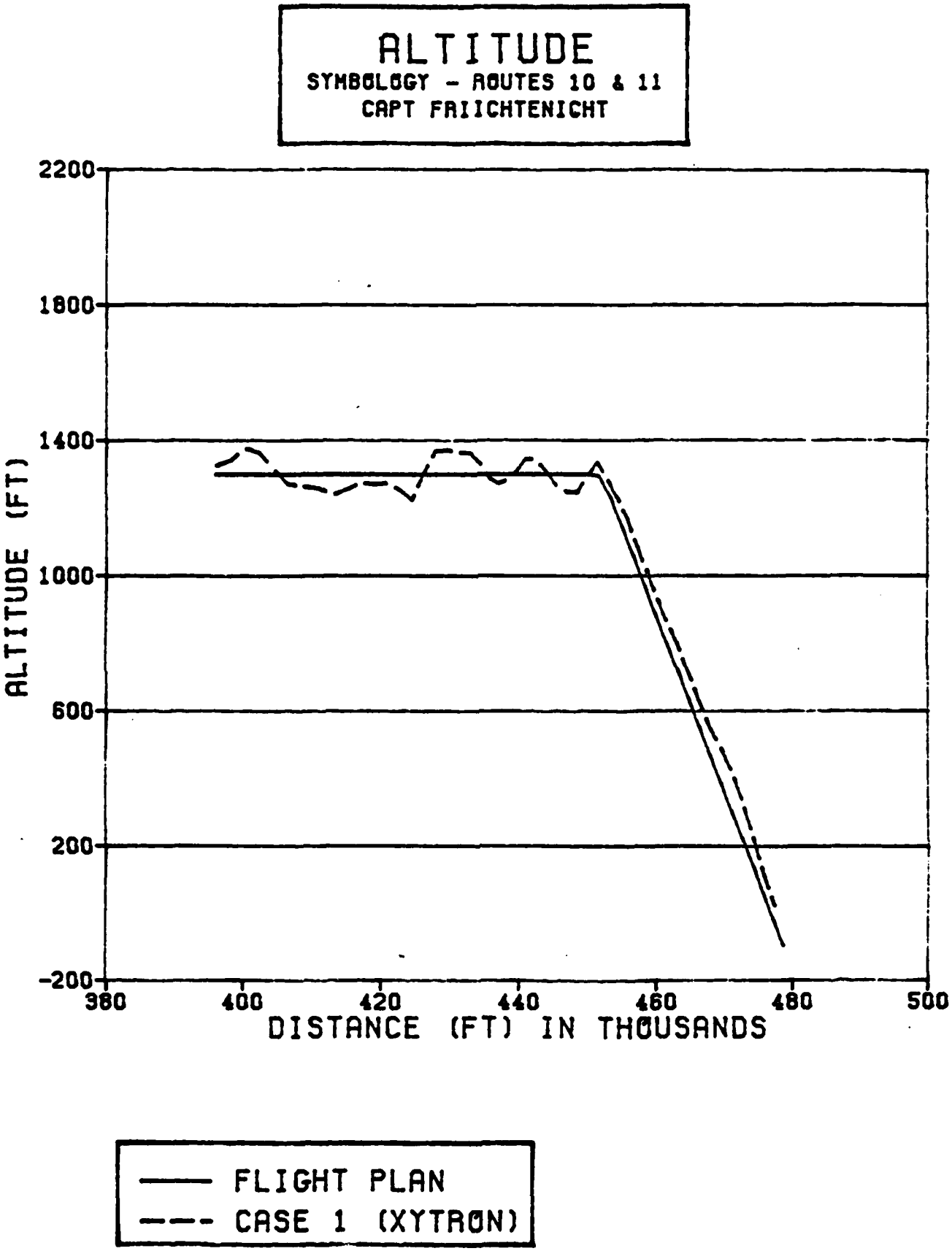

VELOCITY
CFPD - NIAGARA 28R
VADM SEYMOUR.
280
250
220
190
160
130
100
VELOCITY (KNOTS)
40
60
80
100
120
140
160
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 1 (XYTRON)

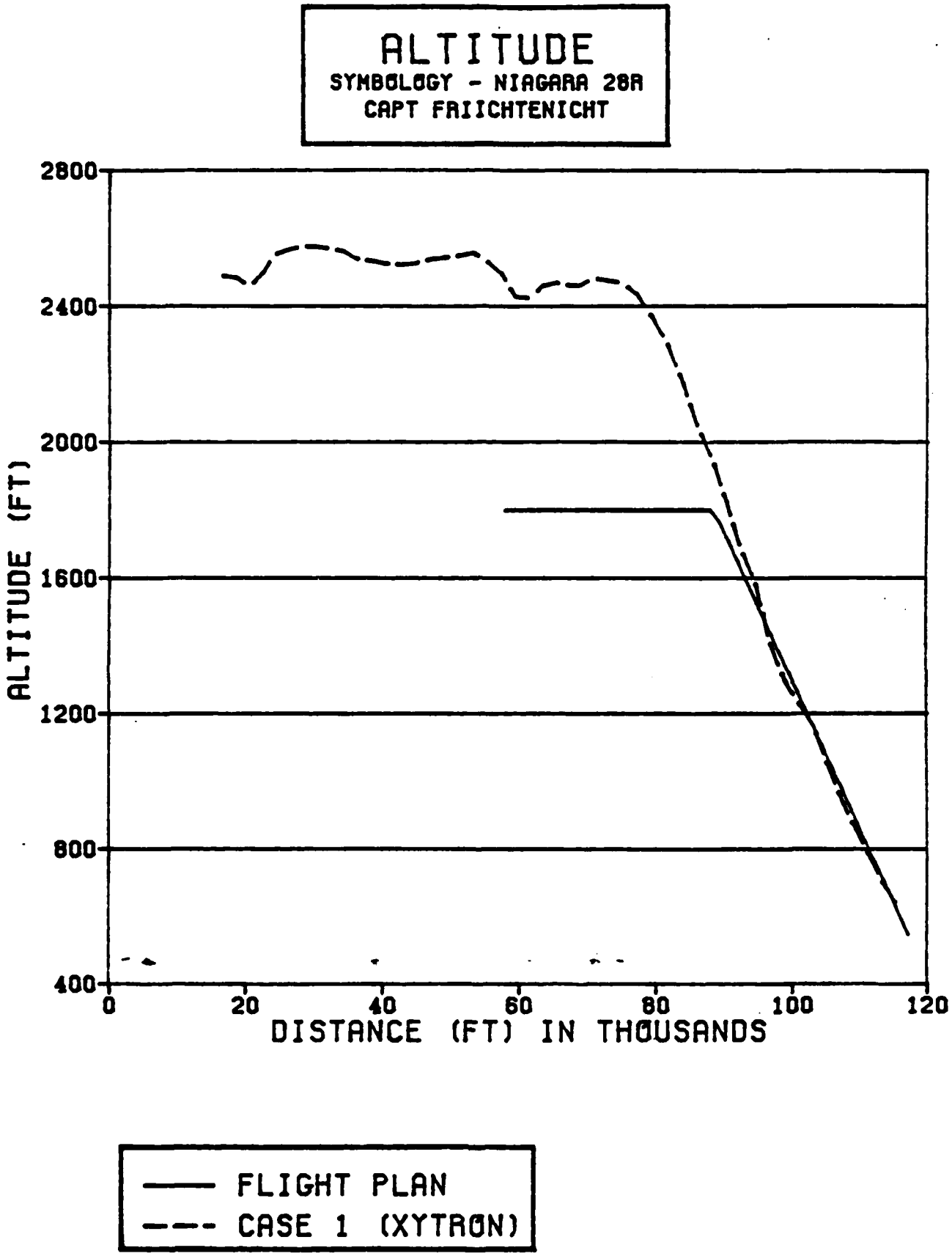

ALTITUDE
SYMBOLOGY - ROUTES 2 & 3
CAPT FRIICHTENICHT
2400
2000
1600
1200
800
400
0
ALTITUDE (FT)
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)

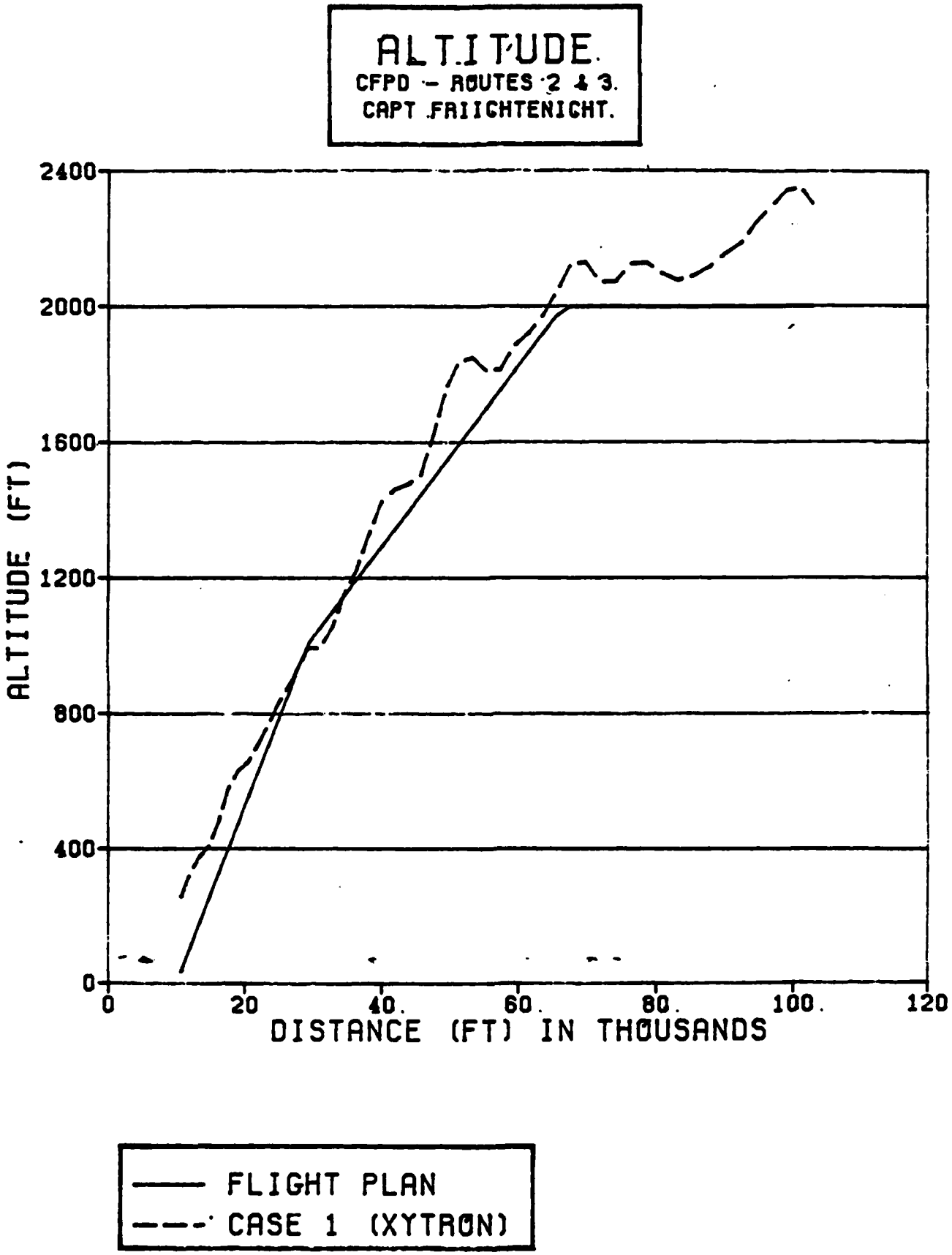

ALTITUDE
SYMBOLOGY - ROUTES 4 & 5
CAPT FRIICHTENICHT
3800
3400
3000
2600
2200
1800
1400
ALTITUDE (FT)
90
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)

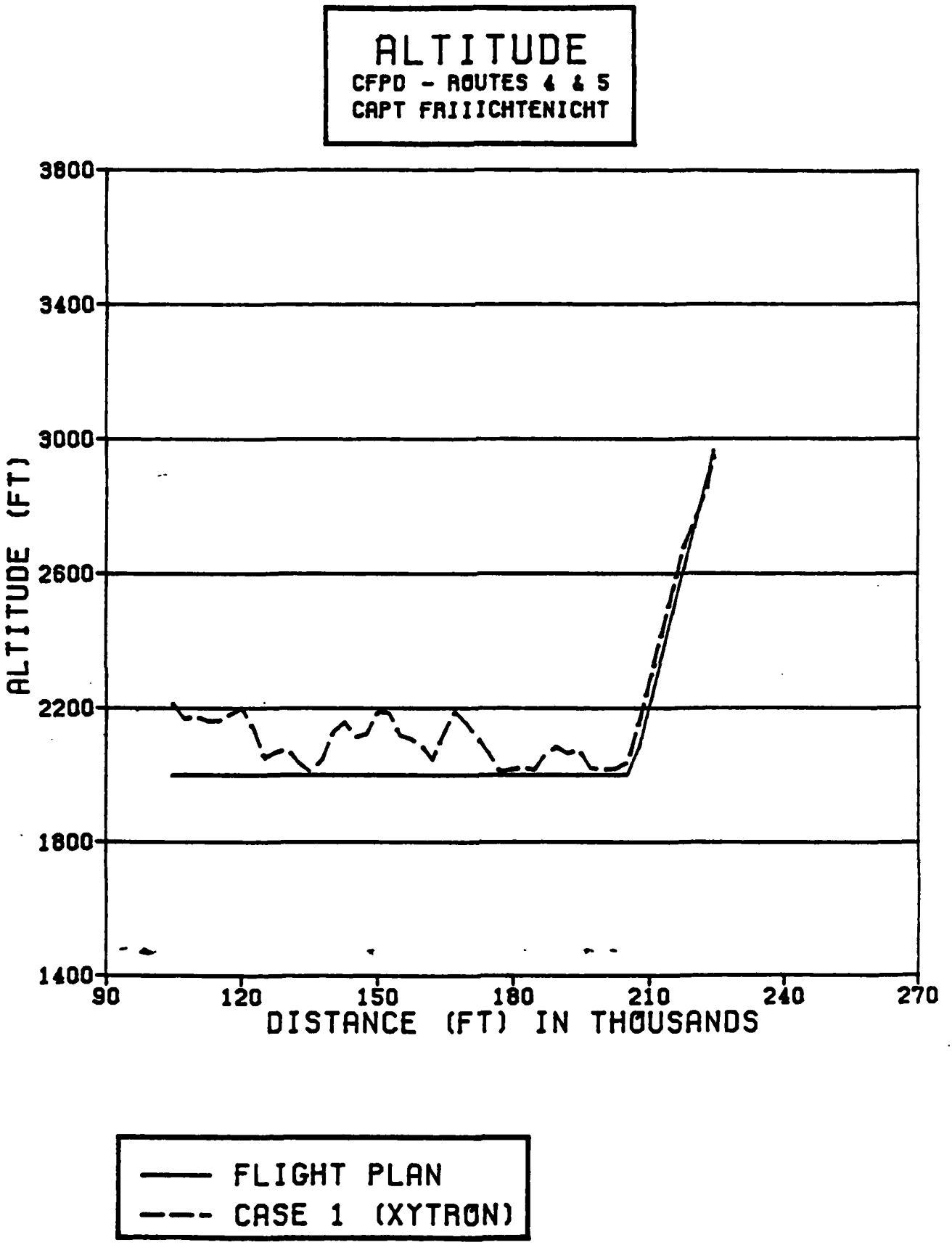

ALTITUDE
SYMBOLOGY - ROUTES 6 & 7
CAPT FRIICHTENICHT
4000
3600
3200
2800
2400
2000
1600
ALTITUDE (FT)
220
240
260
280
300
320
340
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)

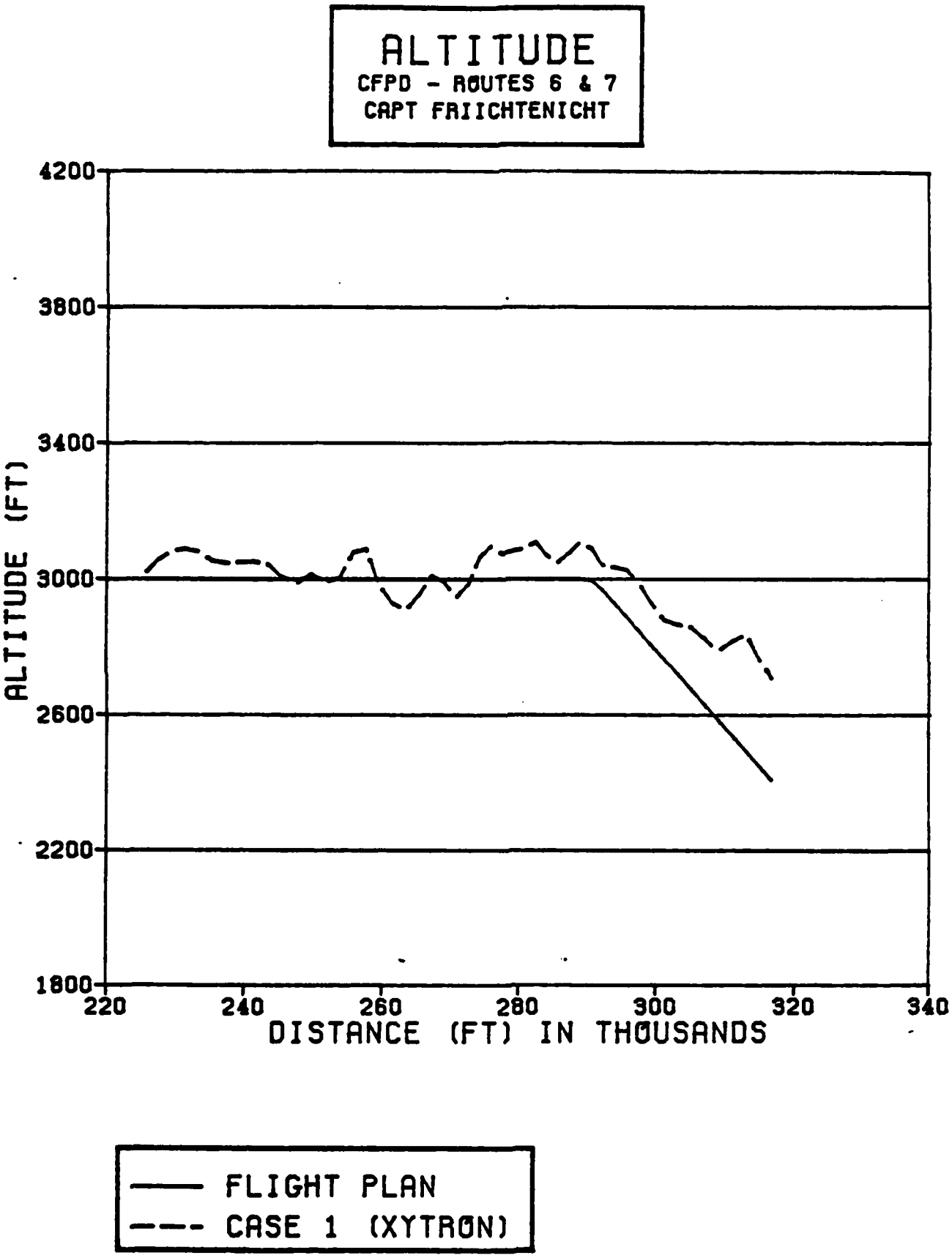

ALTITUDE
SYMBOLOGY - ROUTES 8 & 9
CAPT FRIICHTENICHT
3000
2600
2200
1800
1400
1000
600
ALTITUDE (FT)
300
320
340
360
380
400
420
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)

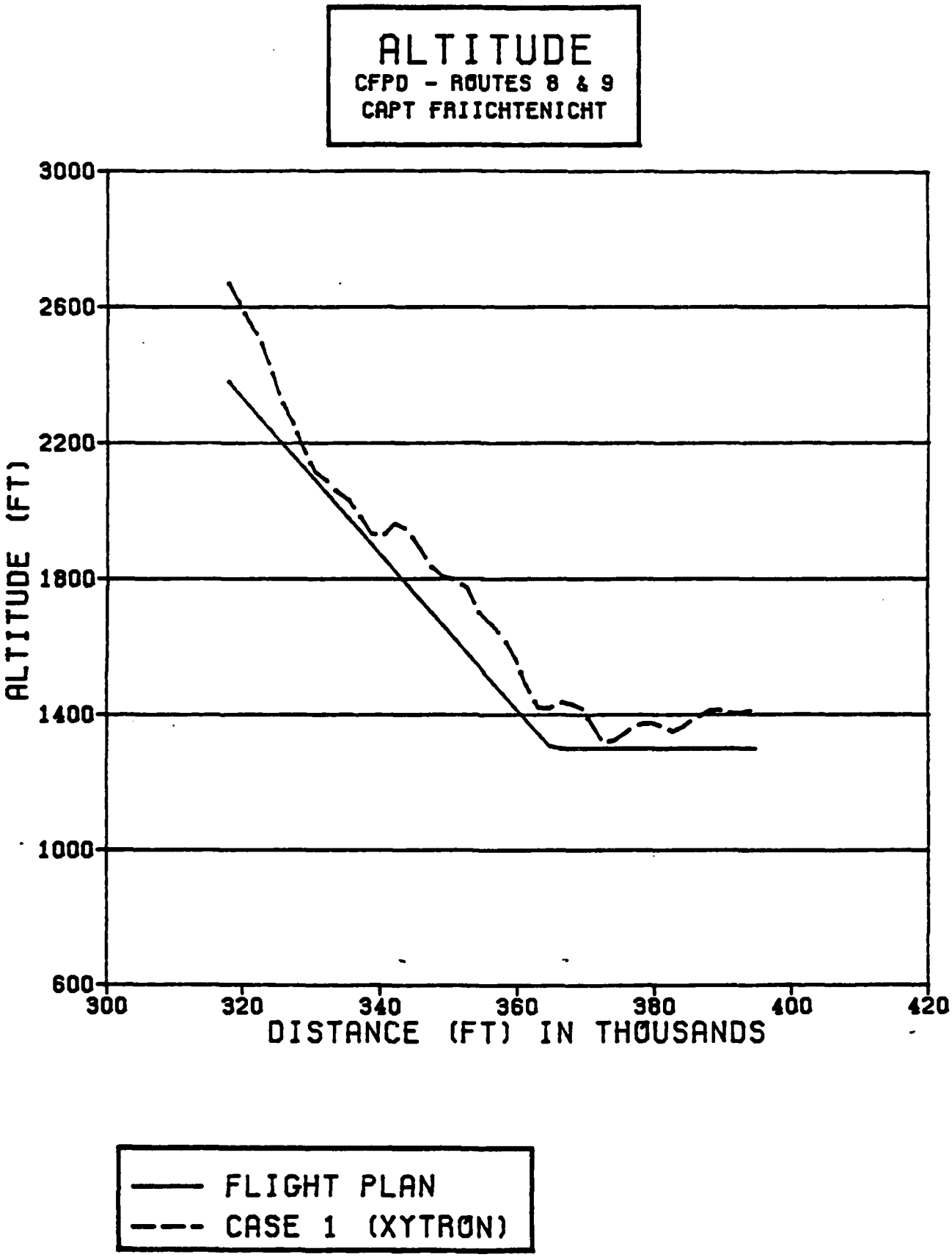

ALTITUDE
SYMBOLOGY - ROUTES 10 & 11
CAPT FRIICHTENICHT
2200
1800
1400
1000
600
200
-200
ALTITUDE (FT)
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)

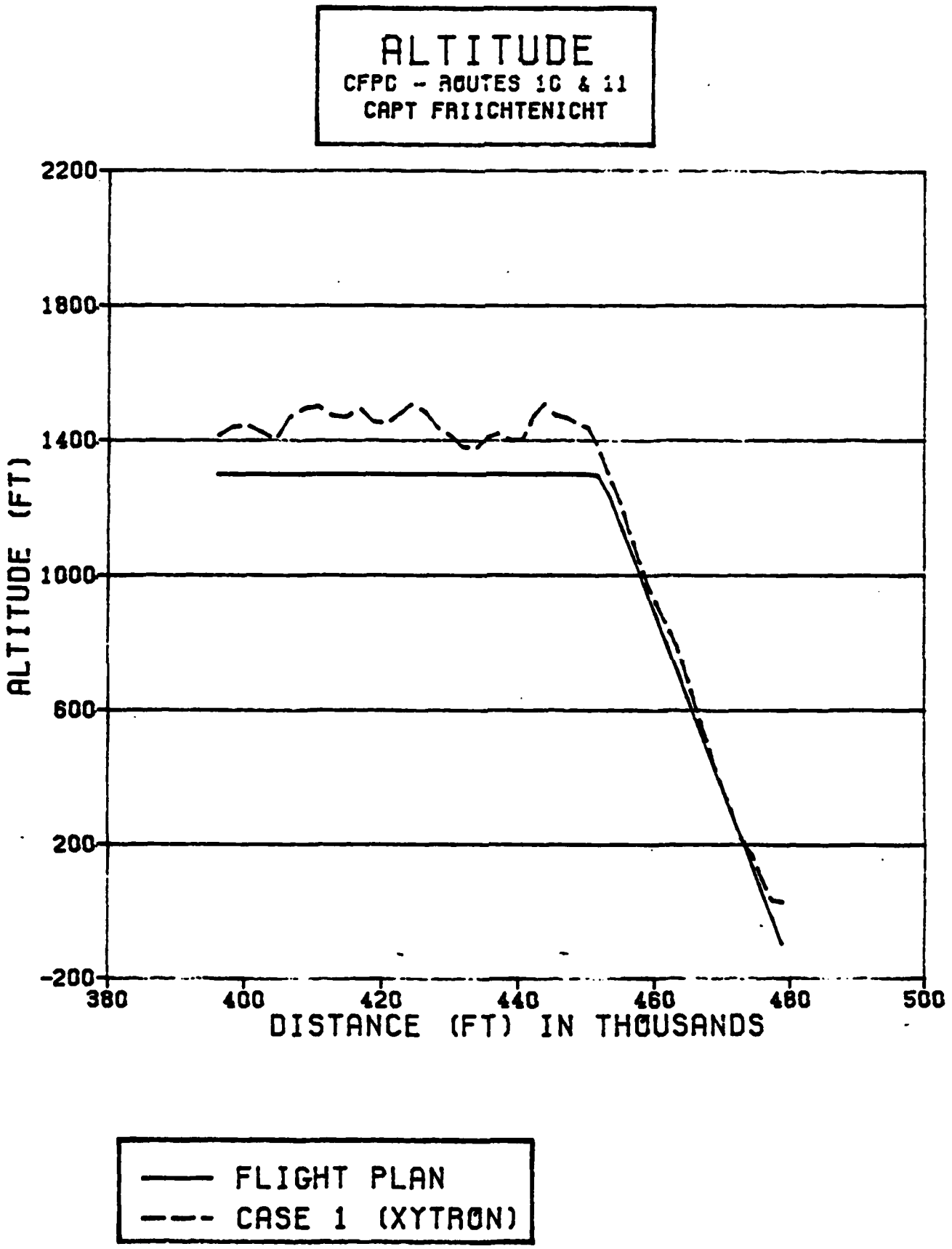

ALTITUDE
SYMBOLOGY - NIAGARA 28R
CAPT FRIICHTENICHT
2800
2400
2000
1600
1200
800
400
ALTITUDE (FT)
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)

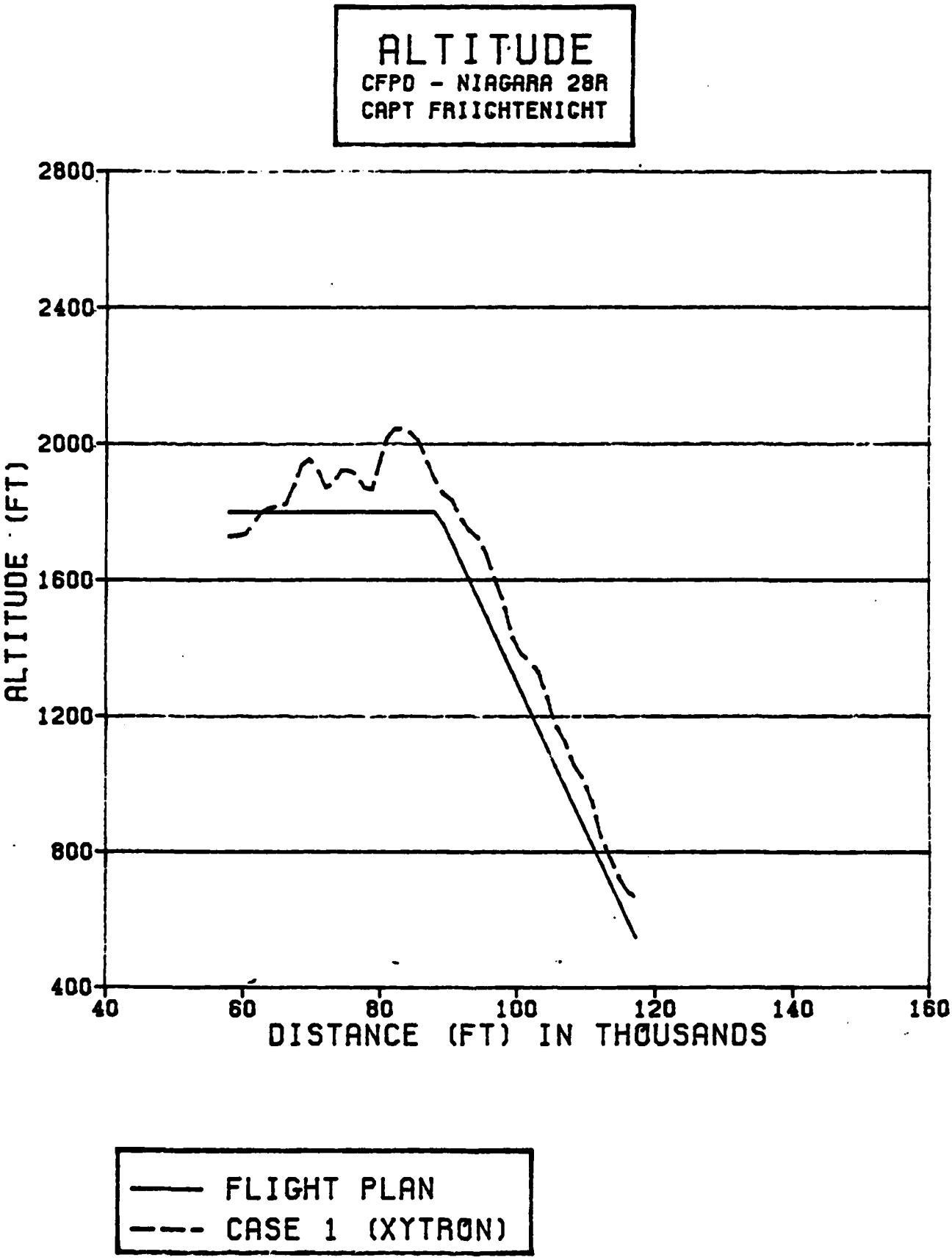

ALTITUDE
CFPD - ROUTES 2 & 3.
CAPT FRIICHTENICHT.
2400
2000
1600
1200
800
400
0
ALTITUDE (FT)
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)

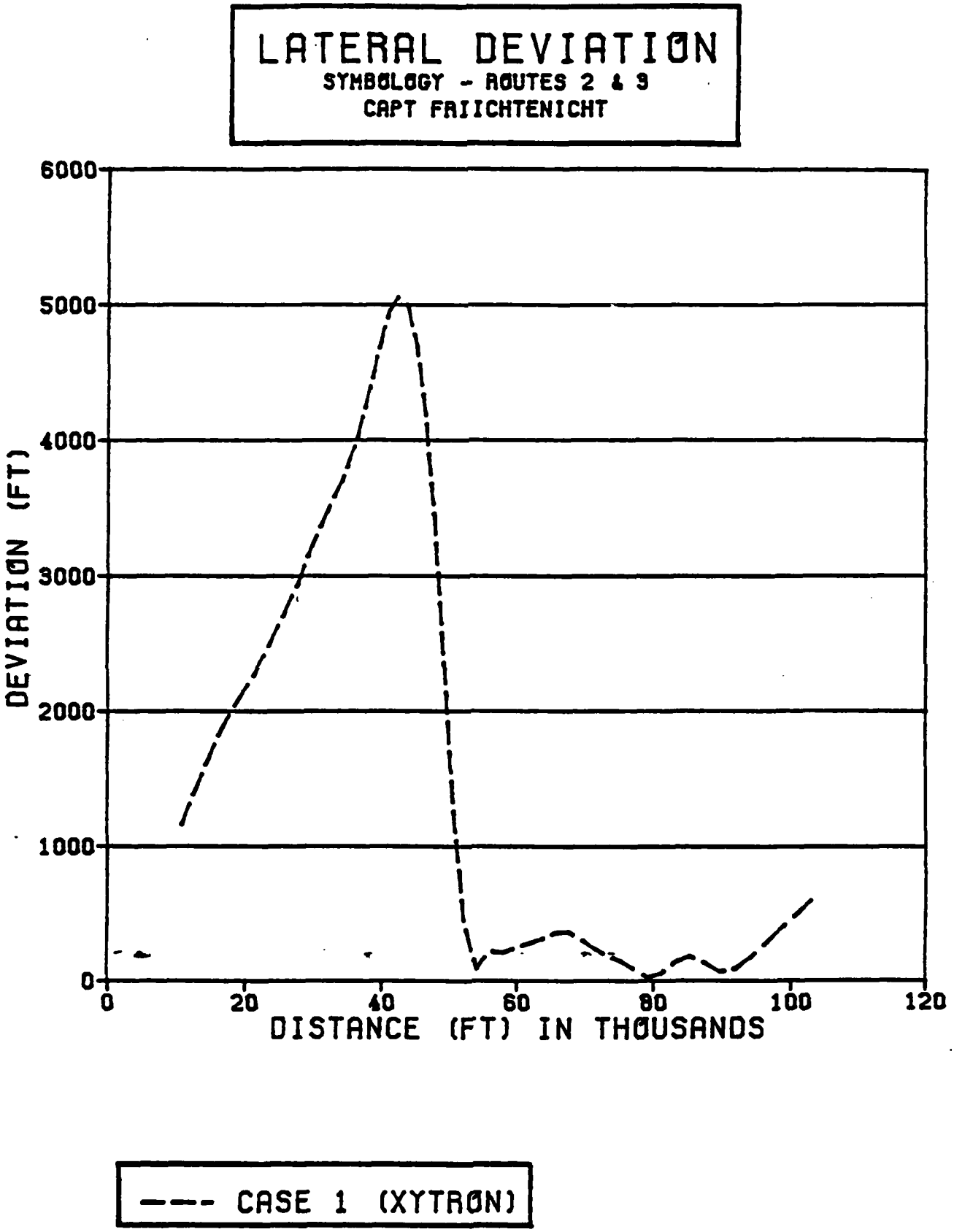

ALTITUDE
CFPD - ROUTES 4 & 5
CAPT FRIIICHTENICHT
3800
3400
3000
2600
2200
1800
1400
ALTITUDE (FT)
90
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)

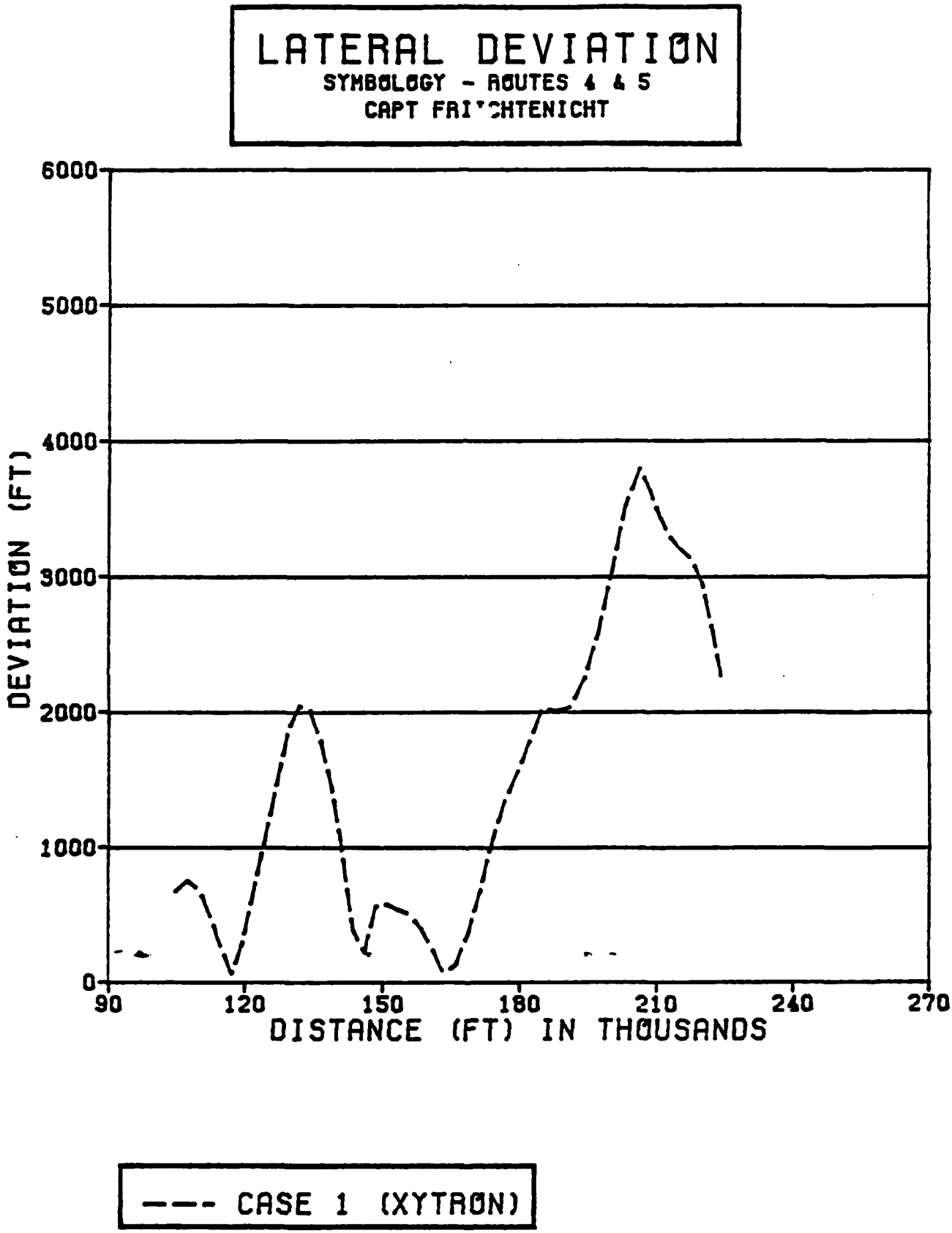

ALTITUDE
CFPD - ROUTES 6 & 7
CAPT FRIICHTENICHT
4200
3800
3400
3000
2600
2200
1800
ALTITUDE (FT)
220
240
260
280
300
320
340
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)

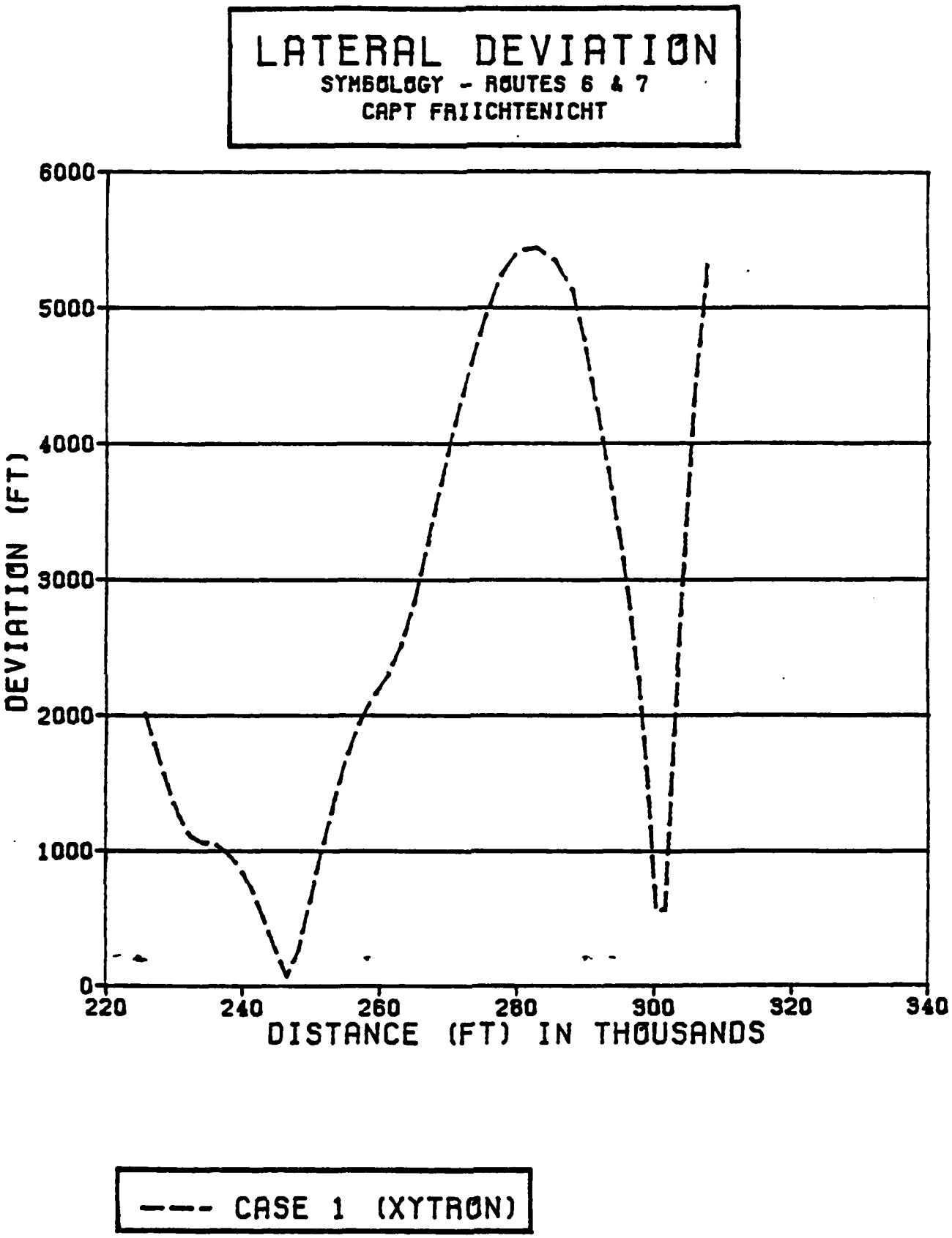

ALTITUDE
CFPD - ROUTES 8 & 9
CAPT FRIICHTENICHT
3000
2600
2200
1800
1400
1000
600
ALTITUDE (FT)
300
320
340
360
380
400
420
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)

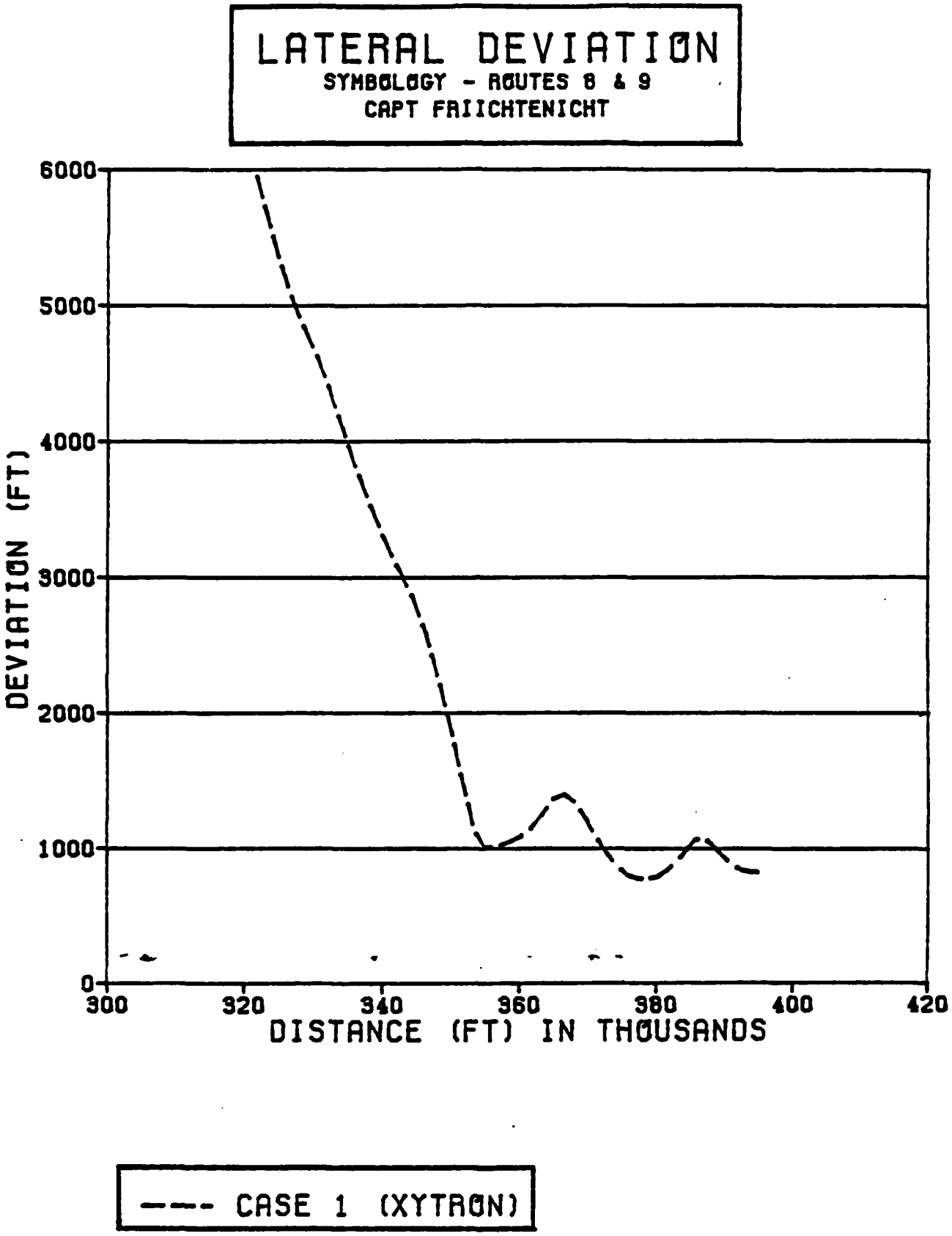

ALTITUDE
CFPC - ROUTES 10 & 11
CAPT FRIICHTENICHT
2200
1800
1400
1000
600
200
-200
ALTITUDE (FT)
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)

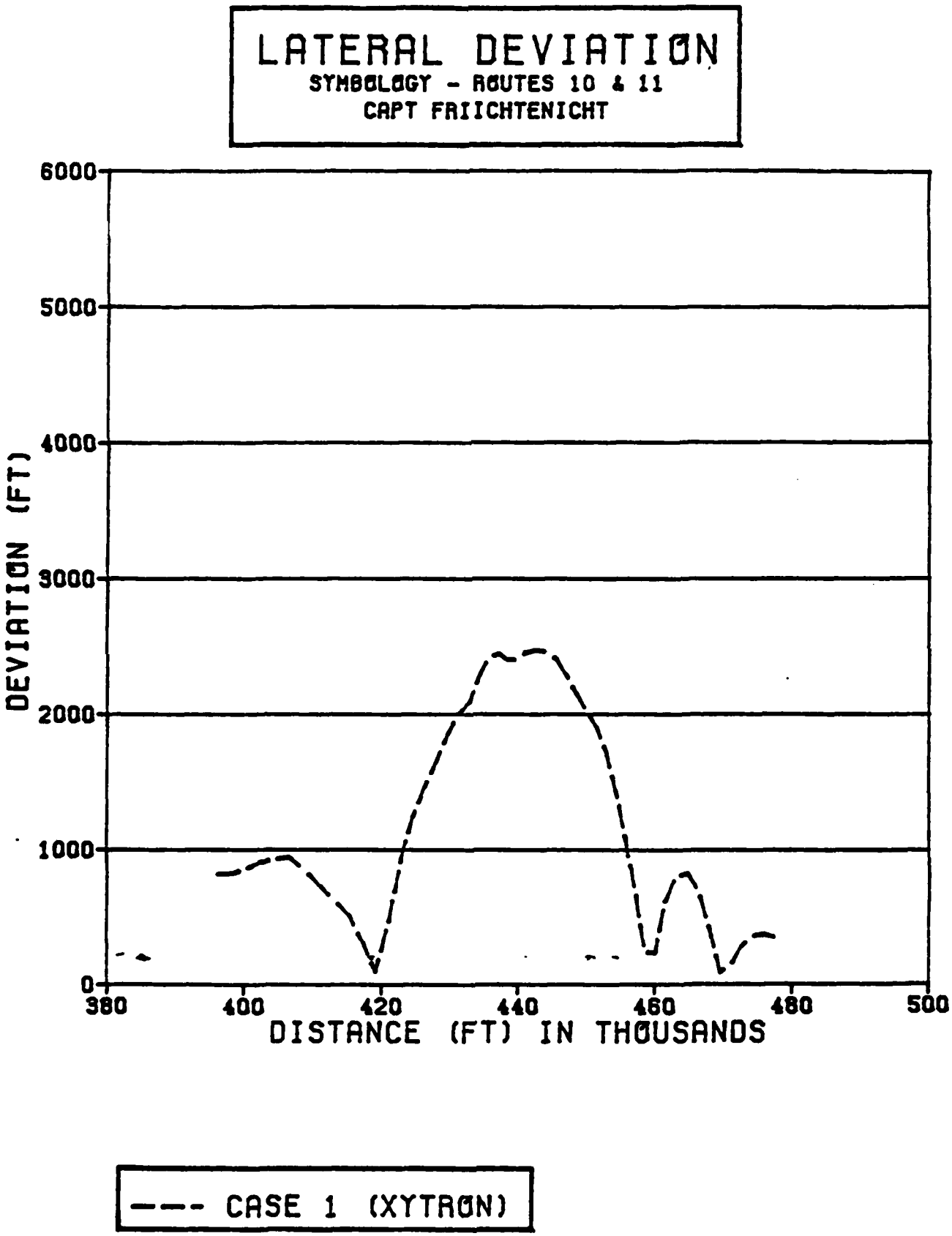

ALTITUDE
CFPD - NIAGARA 28R
CAPT FRIICHTENICHT
2800
2400
2000
1600
1200
800
400
ALTITUDE (FT)
40
60
80
100
120
140
160
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)

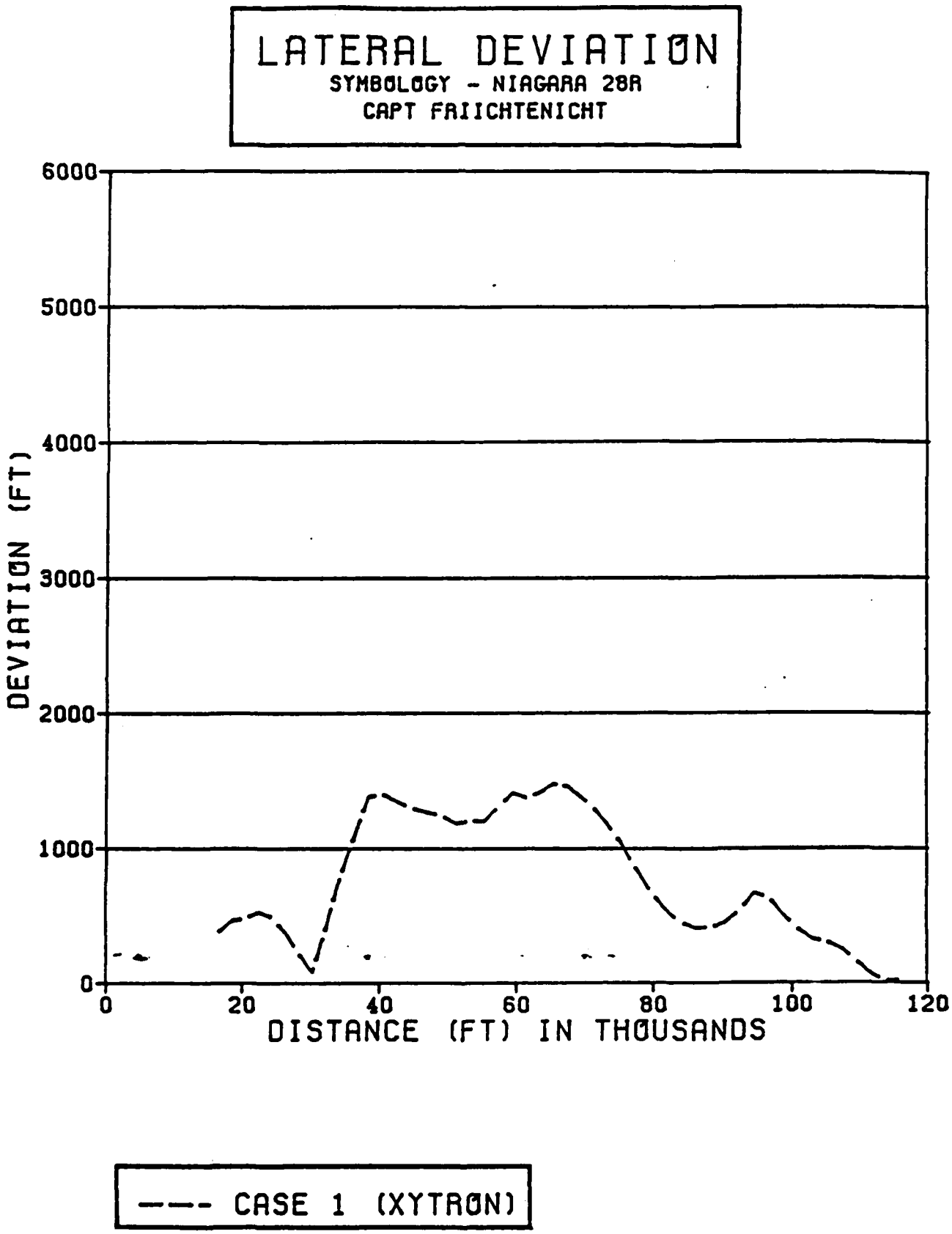

LATERAL DEVIATION
SYMBOLOGY - ROUTES 2 & 9
CAPT FRIICHTENICHT
6000
5000
4000
3000
2000
1000
0
DEVIATION (FT)
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
--- CASE 1 (XYTRON)

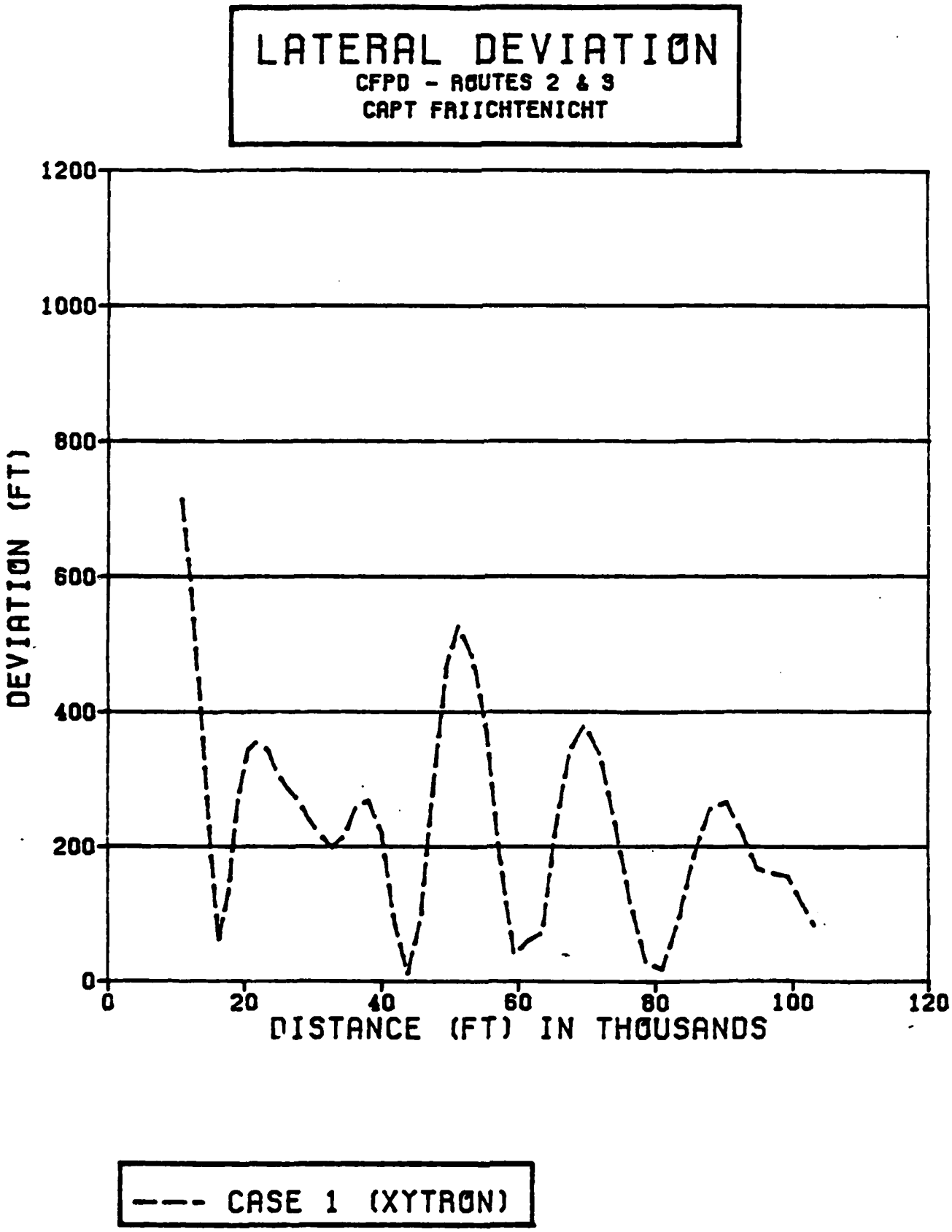

LATERAL DEVIATION
SYMBOLOGY - ROUTES 4 & 5
CAPT FRITCHTENICHT
6000
5000
4000
3000
2000
1000
0
DEVIATION (FT)
90
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
--- CASE 1 (XYTRON)

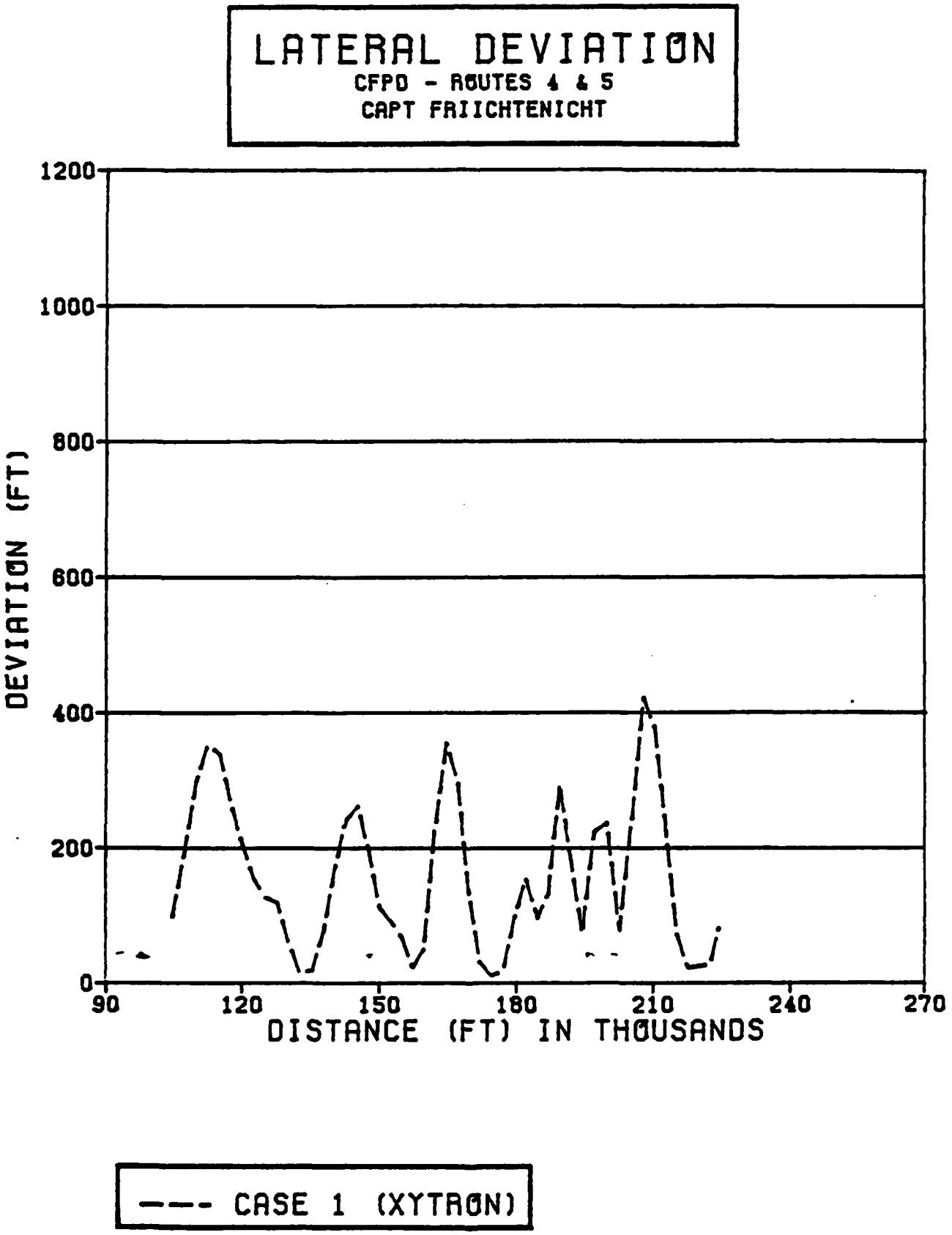

LATERAL DEVIATION
SYMBOLOGY - ROUTES 6 & 7
CAPT FRIICHTENICHT
6000
5000
4000
3000
2000
1000
0
DEVIATION (FT)
220
240
260
280
300
320
340
DISTANCE (FT) IN THOUSANDS
--- CASE 1 (XYTRON)

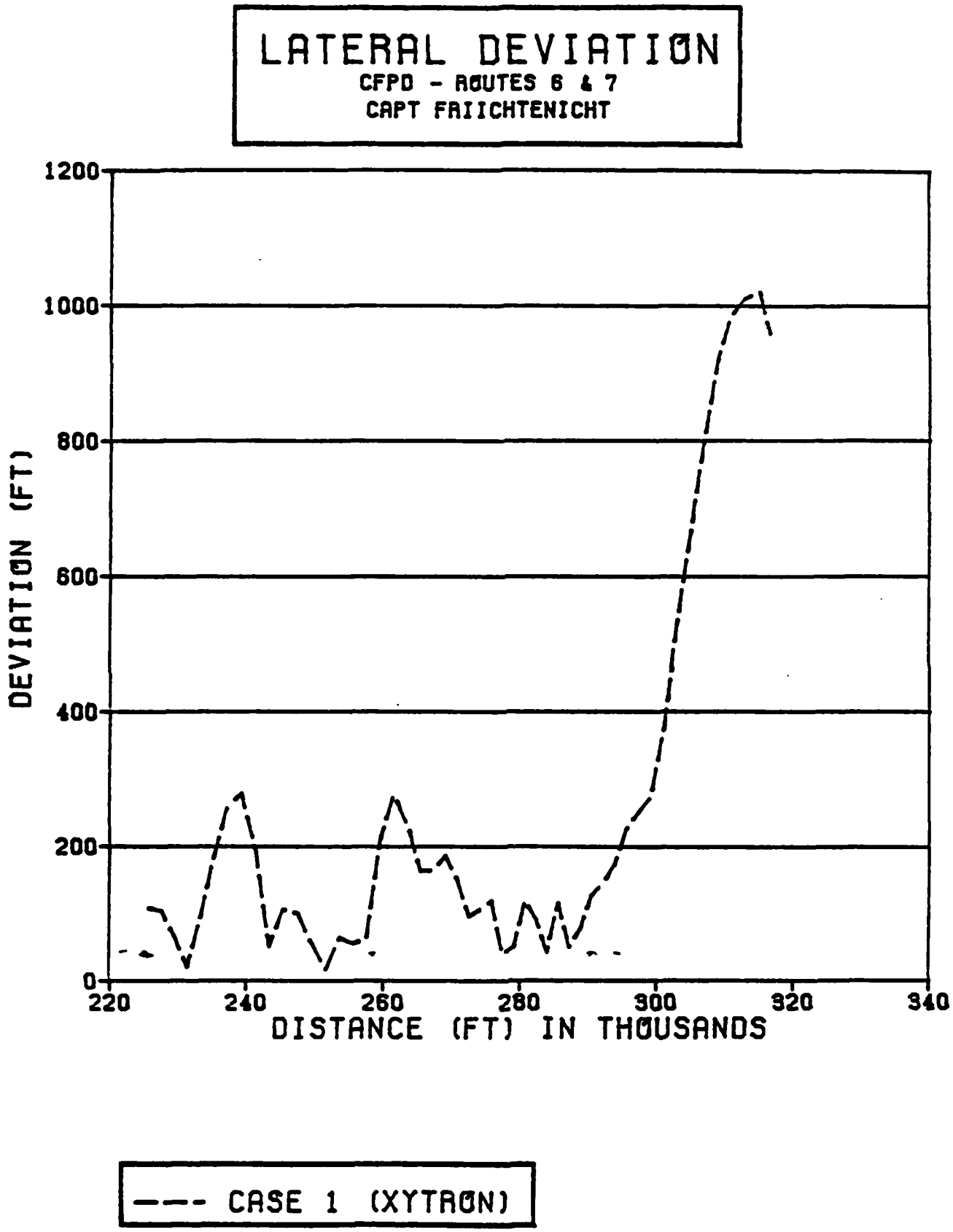

LATERAL DEVIATION
SYMBOLOGY - ROUTES 8 & 9
CAPT FRIICHTENICHT
6000
5000
4000
3000
2000
1000
0
DEVIATION (FT)
300
320
340
360
380
400
420
DISTANCE (FT) IN THOUSANDS
CASE 1 (XYTRON)

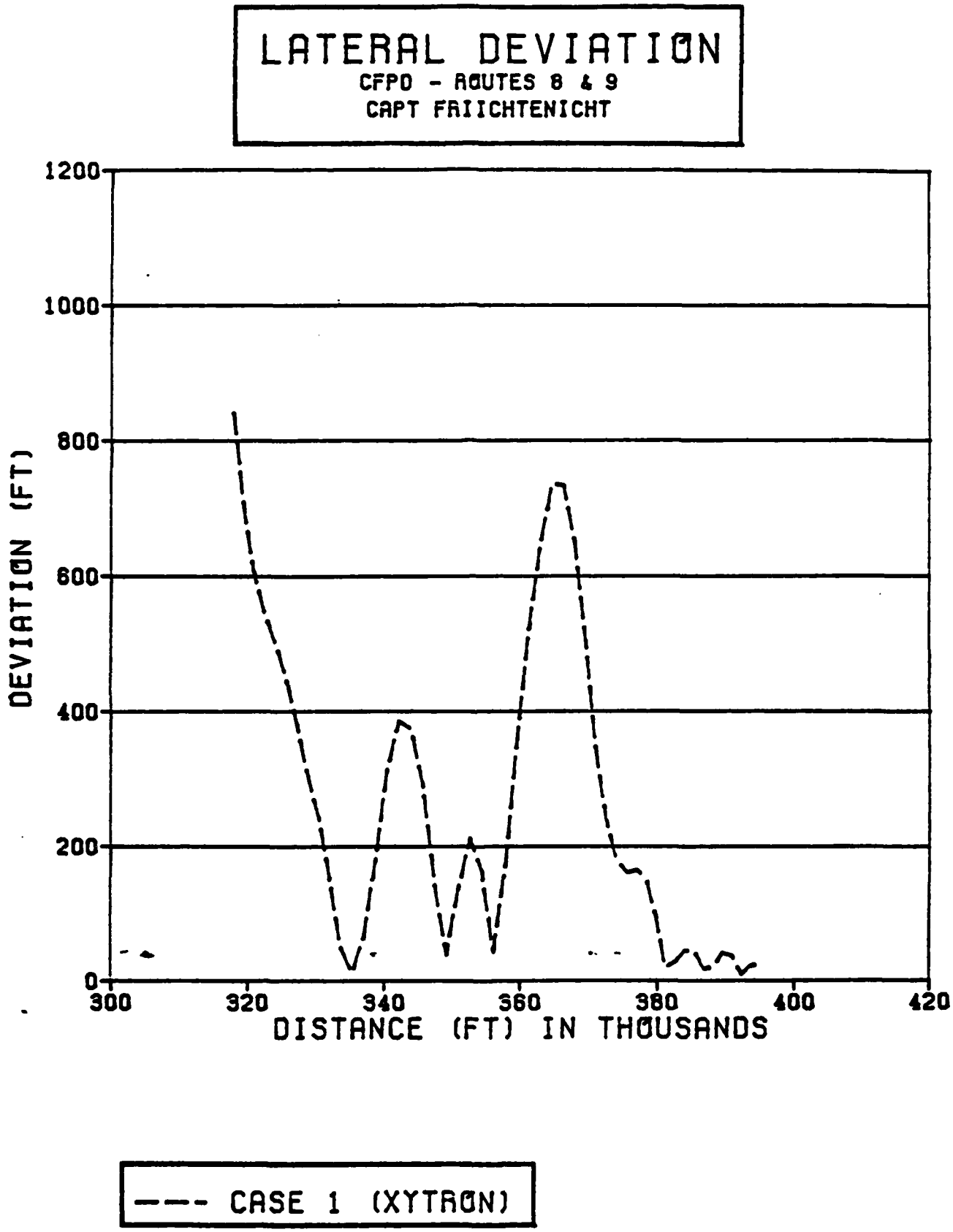

LATERAL DEVIATION
SYMBOLOGY - ROUTES 10 & 11
CAPT FRIICHTENICHT
6000
5000
4000
3000
2000
1000
0
DEVIATION (FT)
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
CASE 1 (XYTRON)

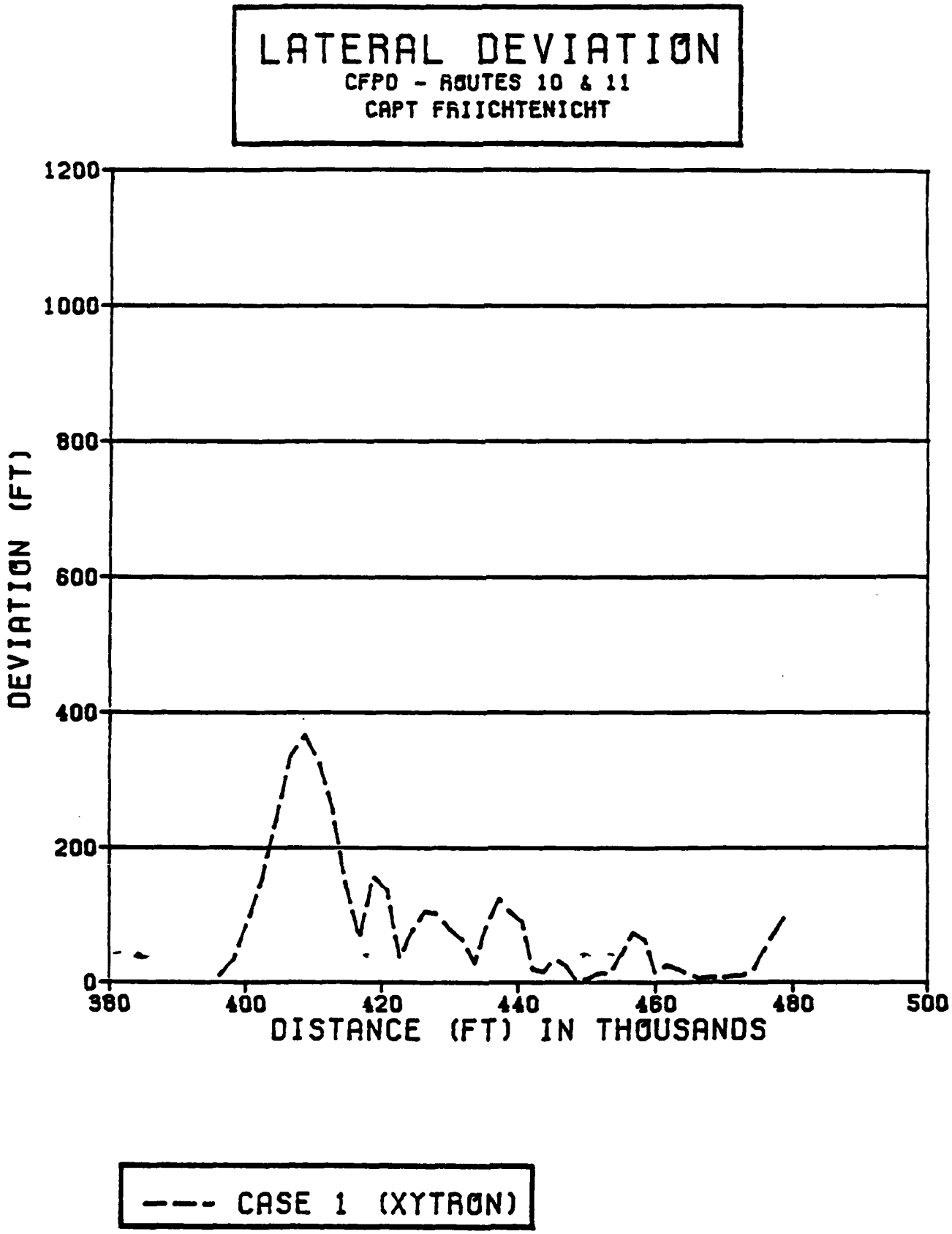

LATERAL DEVIATIØN
SYMBOLOGY - NIAGARA 28R
CAPT FRIICHTENICHT
6000
5000
4000
3000
2000
1000
0
DEVIATIØN (FT)
0
20
40
60
80
100
120
DISTANCE (FT) IN THØUSANDS
--- CASE 1 (XYTRØN)

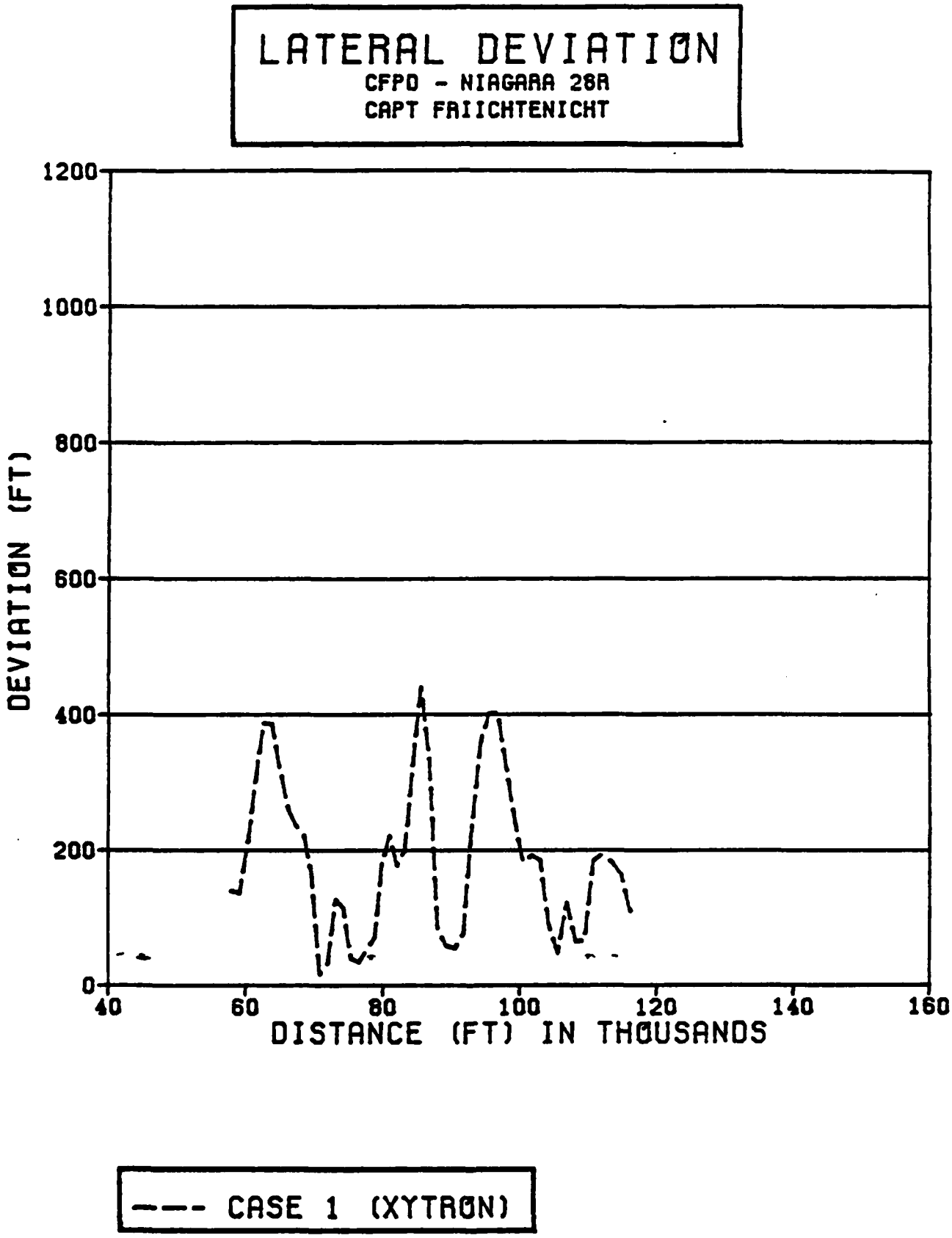

LATERAL DEVIATIØN
CFPD - RØUTES 2 & 3
CAPT FRIICHTENICHT
1200
1000
800
600
400
200
0
DEVIATIØN (FT)
0
20
40
60
80
100
120
DISTANCE (FT) IN THØUSANDS
CASE 1 (XYTRØN)

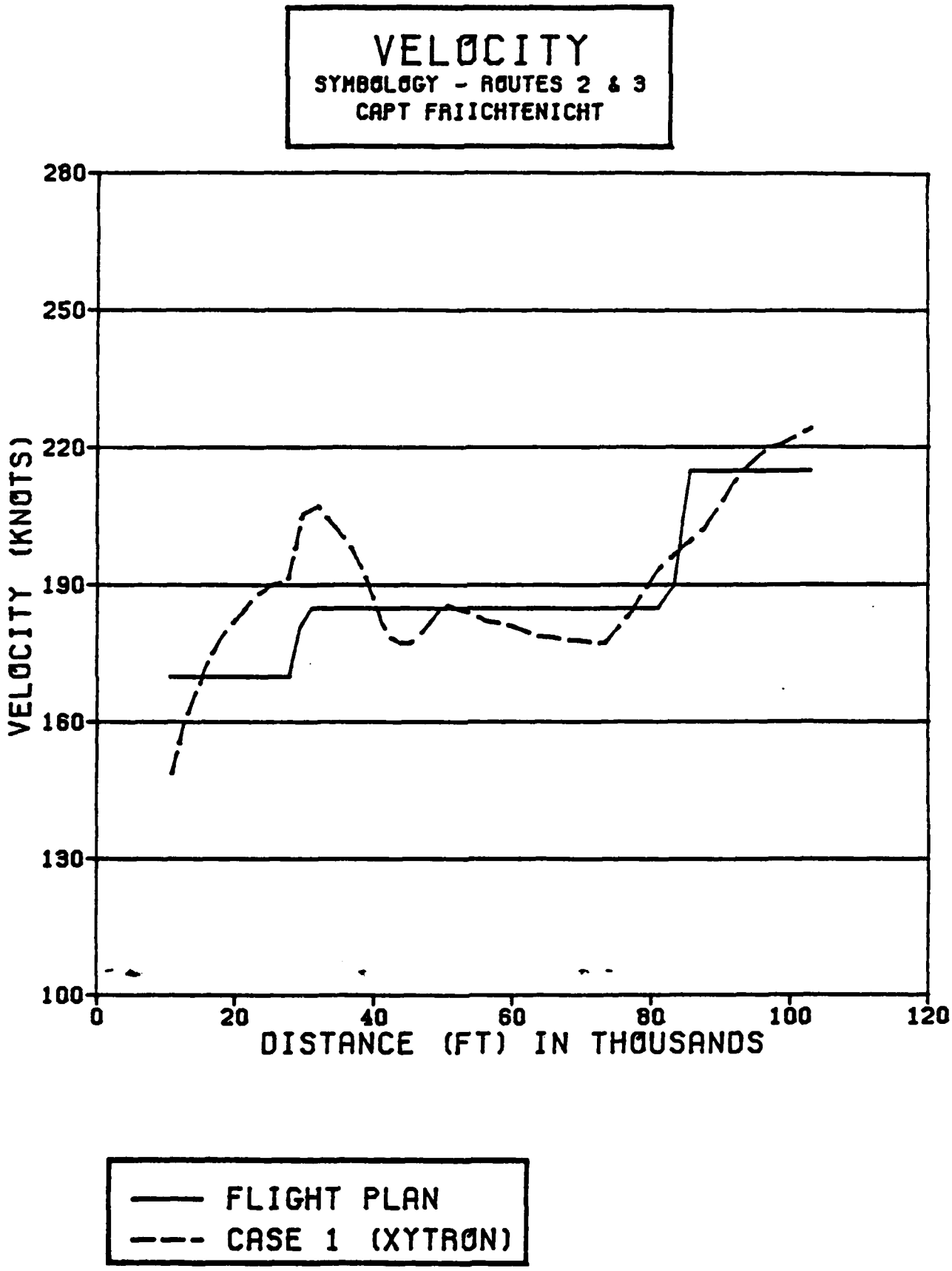

LATERAL DEVIATION
CFPD - ROUTES 4 & 5
CAPT FRIICHTENICHT
1200
1000
800
600
400
200
0
DEVIATION (FT)
90
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
--- CASE 1 (XYTRON)

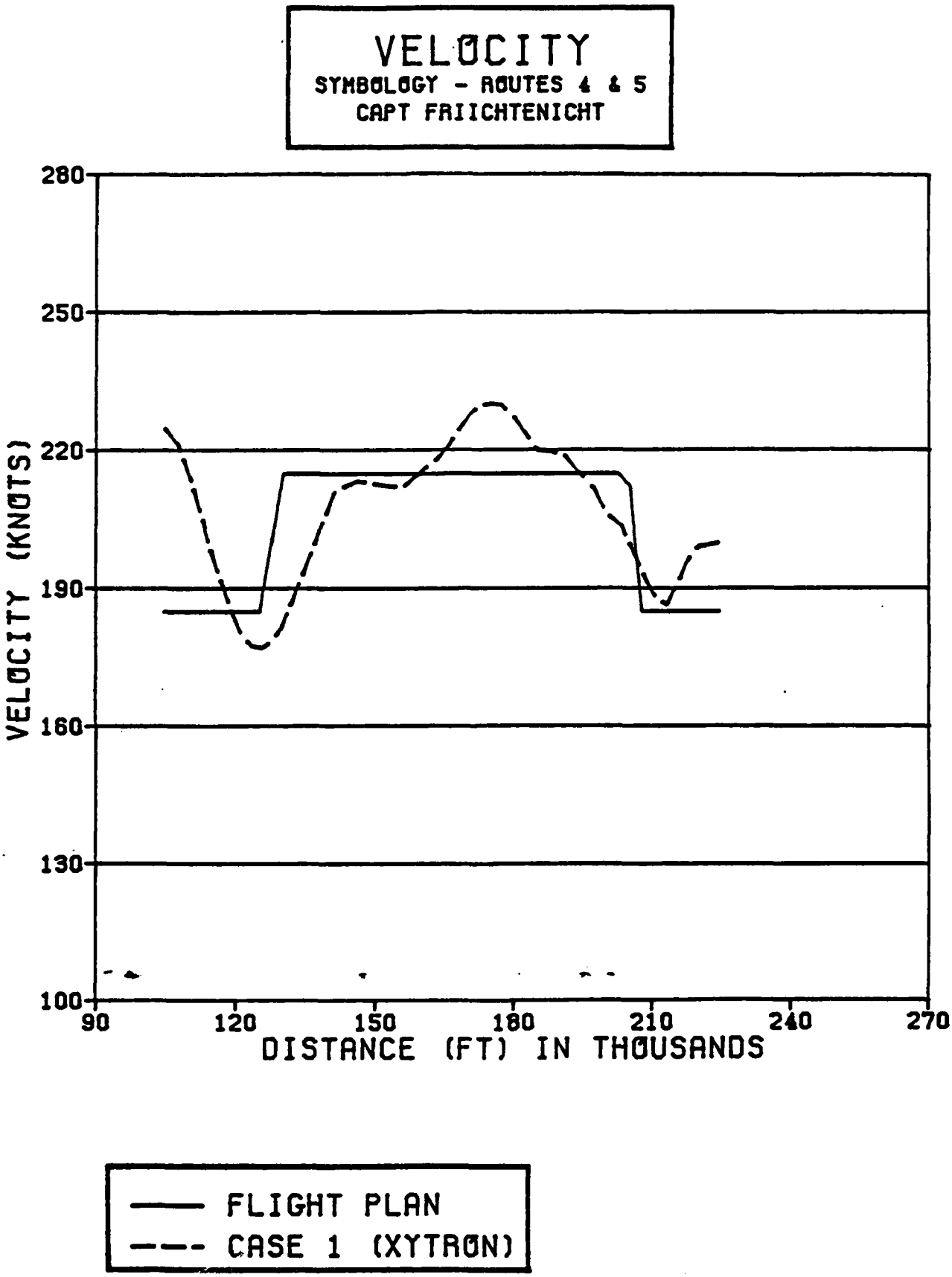

LATERAL DEVIATIØN
CFPD - RØUTES 6 & 7
CAPT FRIICHTENICHT
1200
1000
800
600
400
200
0
DEVIATIØN (FT)
220
240
260
280
300
320
340
DISTANCE (FT) IN THØUSANDS
CASE 1 (XYTRØN)

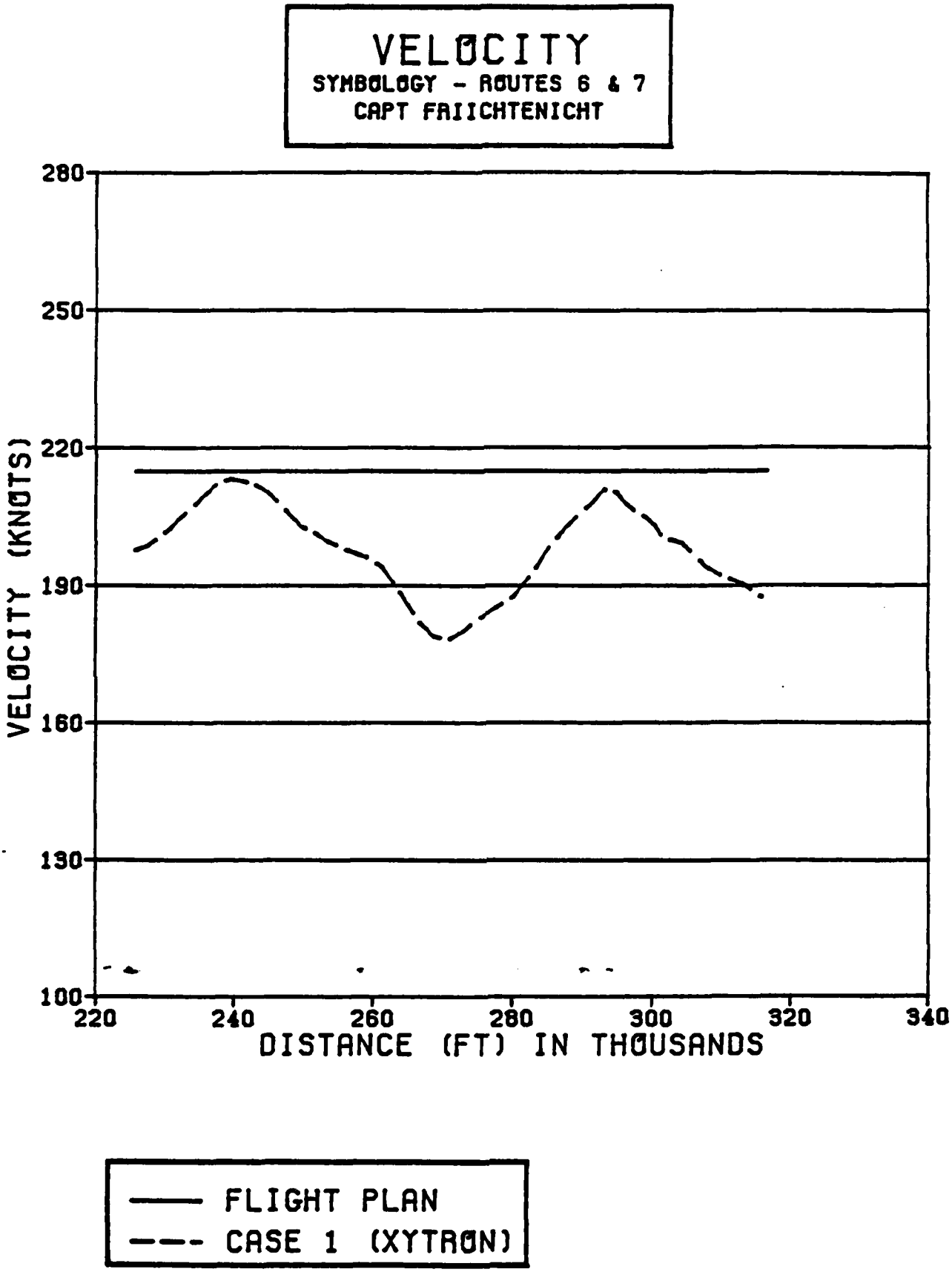

LATERAL DEVIATION
CFPO - ROUTES 8 & 9
CAPT FRIICHTENICHT
1200
1000
800
600
400
200
0
DEVIATION (FT)
300
320
340
360
380
400
420
DISTANCE (FT) IN THOUSANDS
--- CASE 1 (XYTRON)

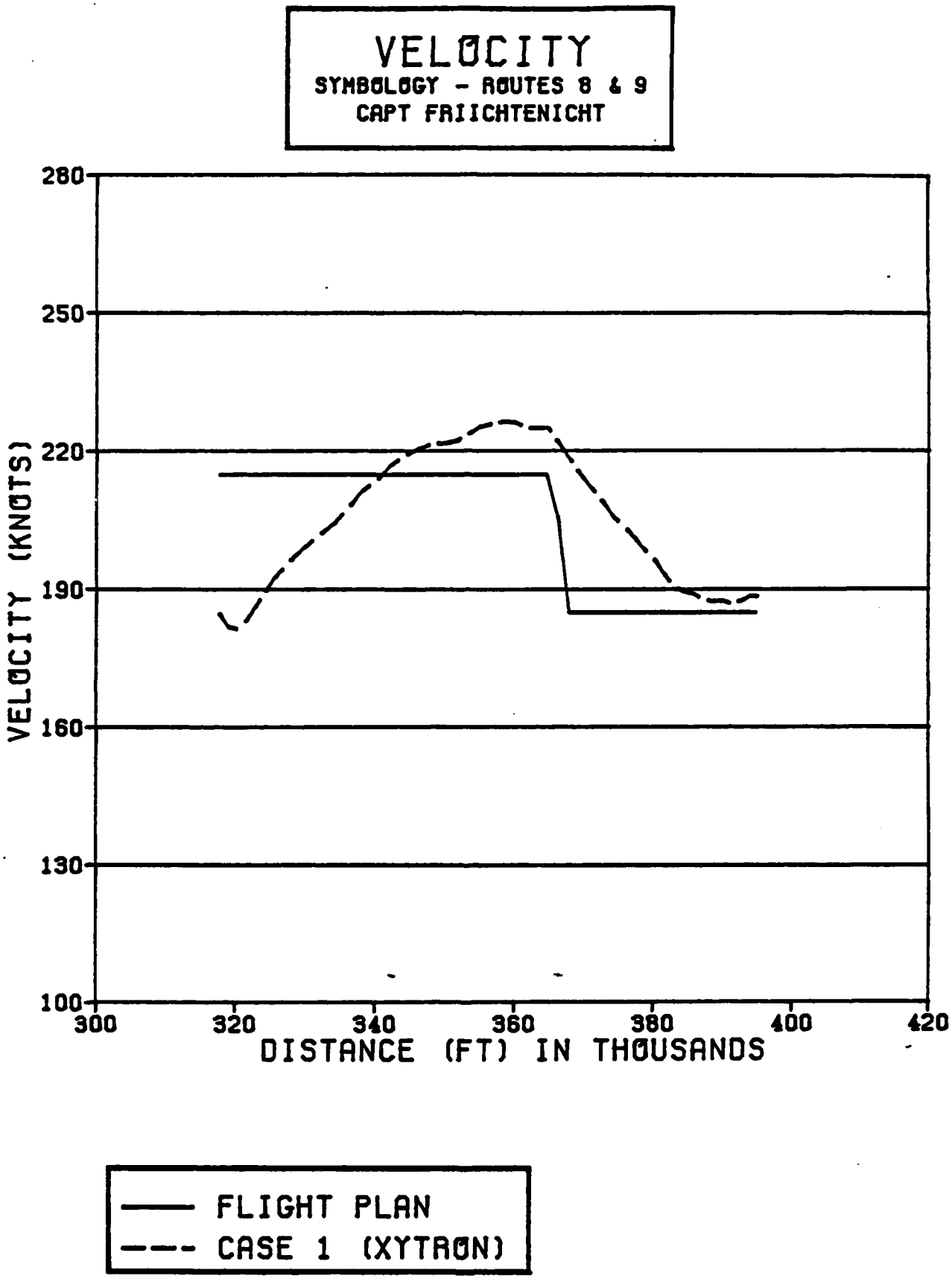

LATERAL DEVIATION
CFPD - ROUTES 10 & 11
CAPT FRIICHTENICHT
1200
1000
800
600
400
200
0
DEVIATION (FT)
380
400
420
440
460
480
500
DISTANCE (FT) IN THOUSANDS
--- CASE 1 (XYTRON)

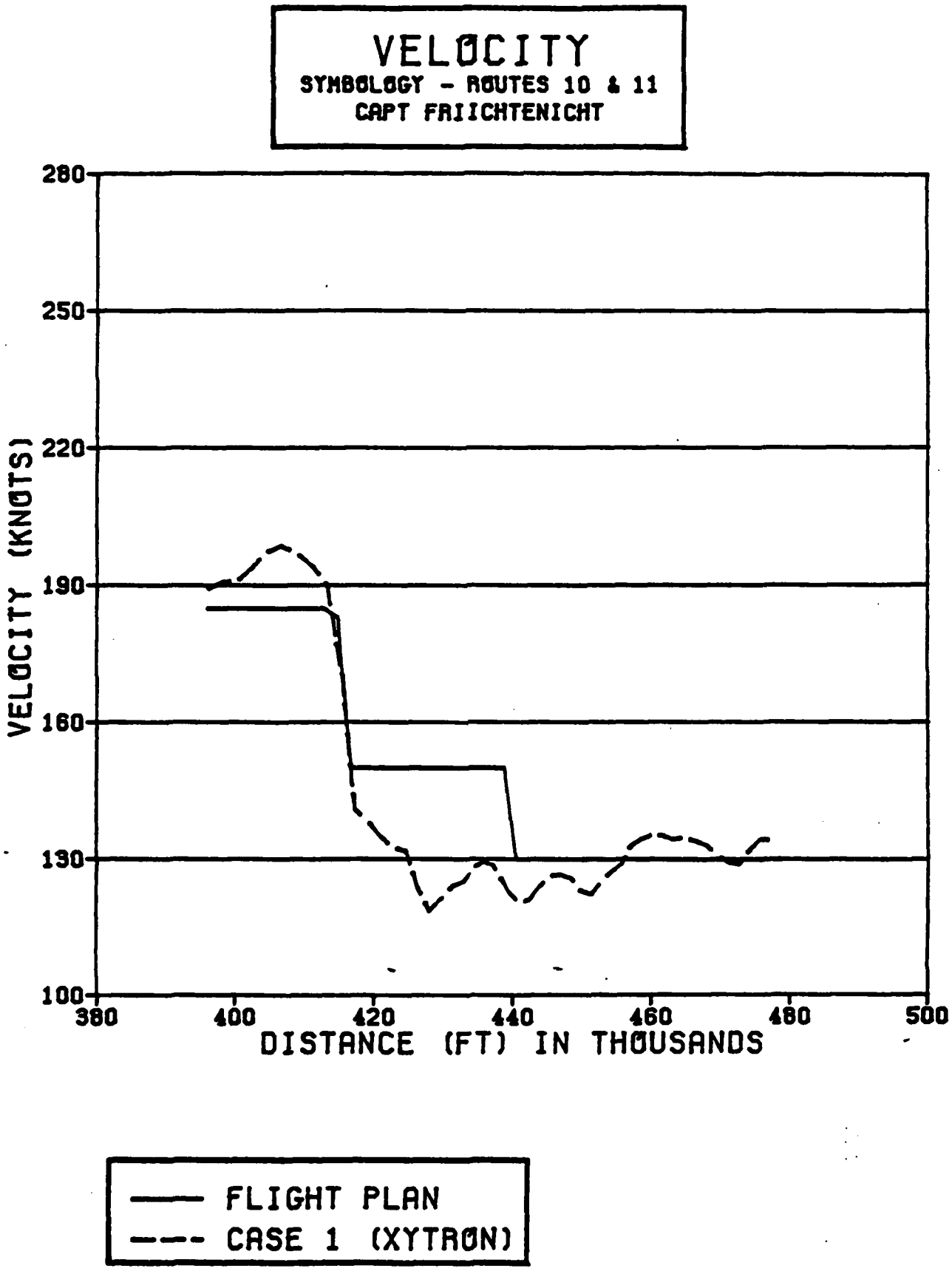

LATERAL DEVIATIØN
CFPD - NIAGARA 28R
CAPT FRIICHTENICHT
1200
1000
800
600
400
200
0
DEVIATIØN (FT)
40
60
80
100
120
140
160
DISTANCE (FT) IN THØUSANDS
CASE 1 (XYTRØN)

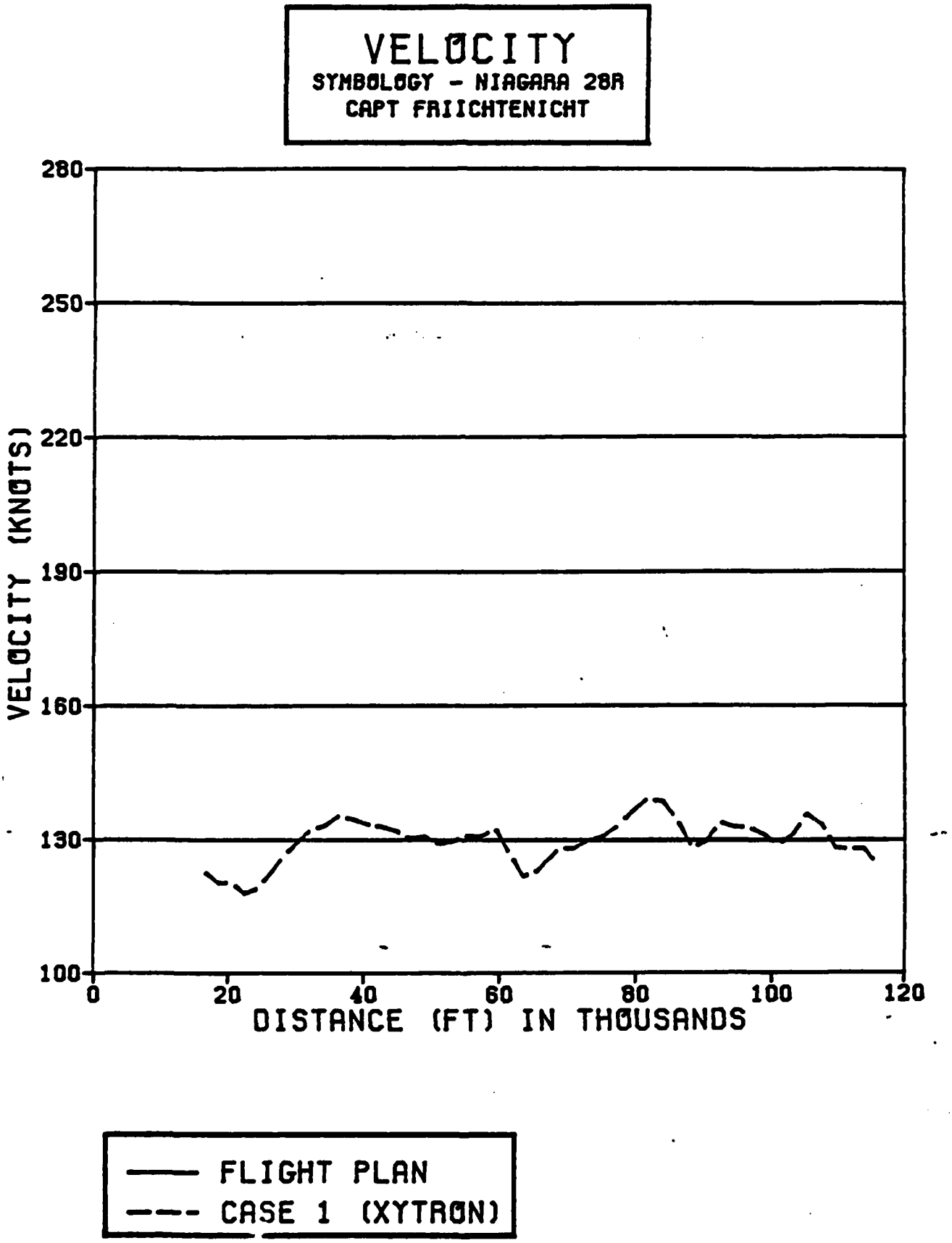

VELØCITY
SYMBØLØGY - RØUTES 2 & 3
CAPT FRIICHTENICHT
280
250
220
190
160
130
100
VELØCITY (KNØTS)
0
20
40
60
80
100
120
DISTANCE (FT) IN THØUSANDS
FLIGHT PLAN
CASE 1 (XYTRØN)

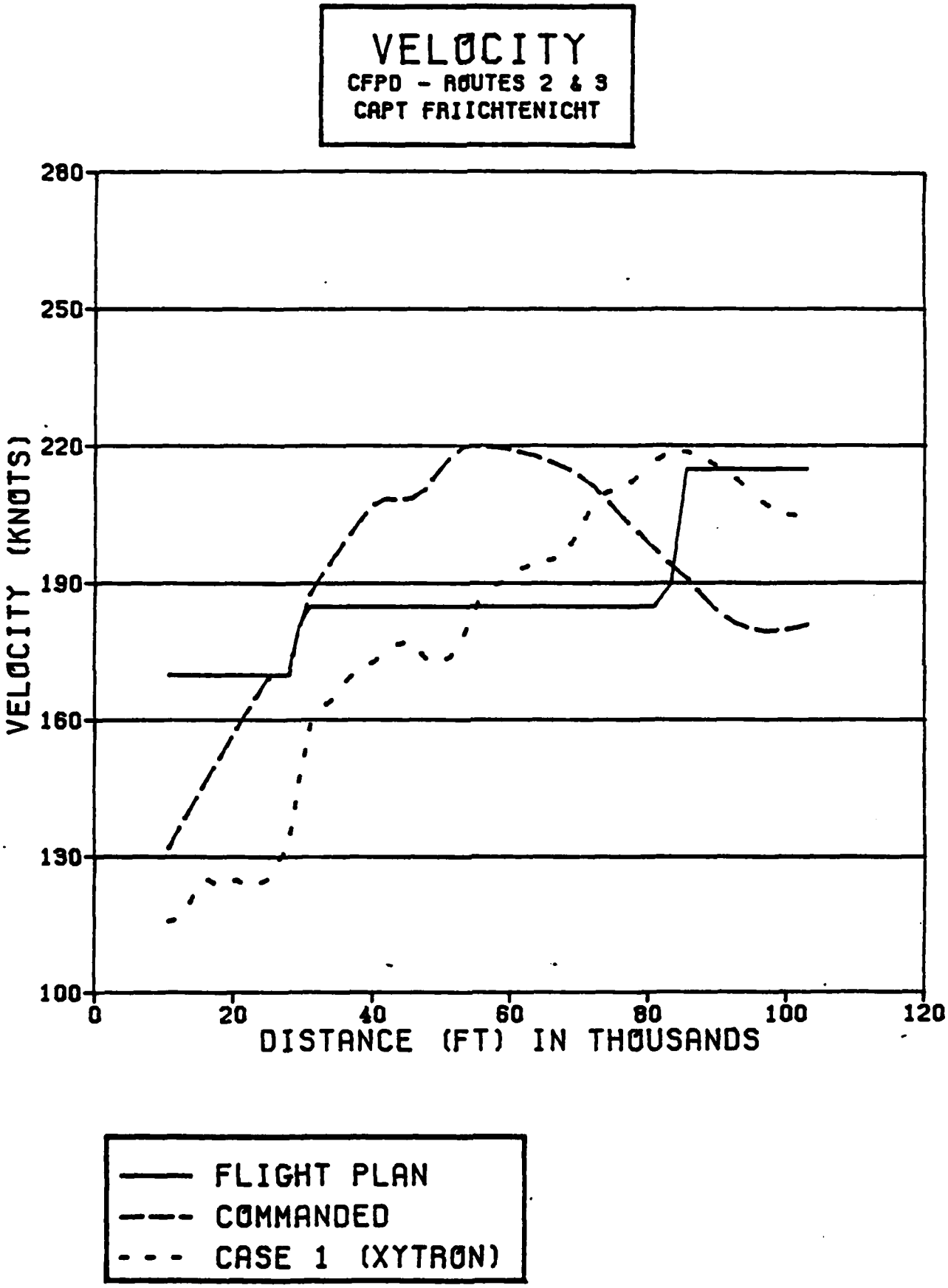

VELOCITY
SYMBOLOGY - ROUTES 4 & 5
CAPT FRIICHTENICHT
280
250
220
190
160
130
100
VELOCITY (KNOTS)
90
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)

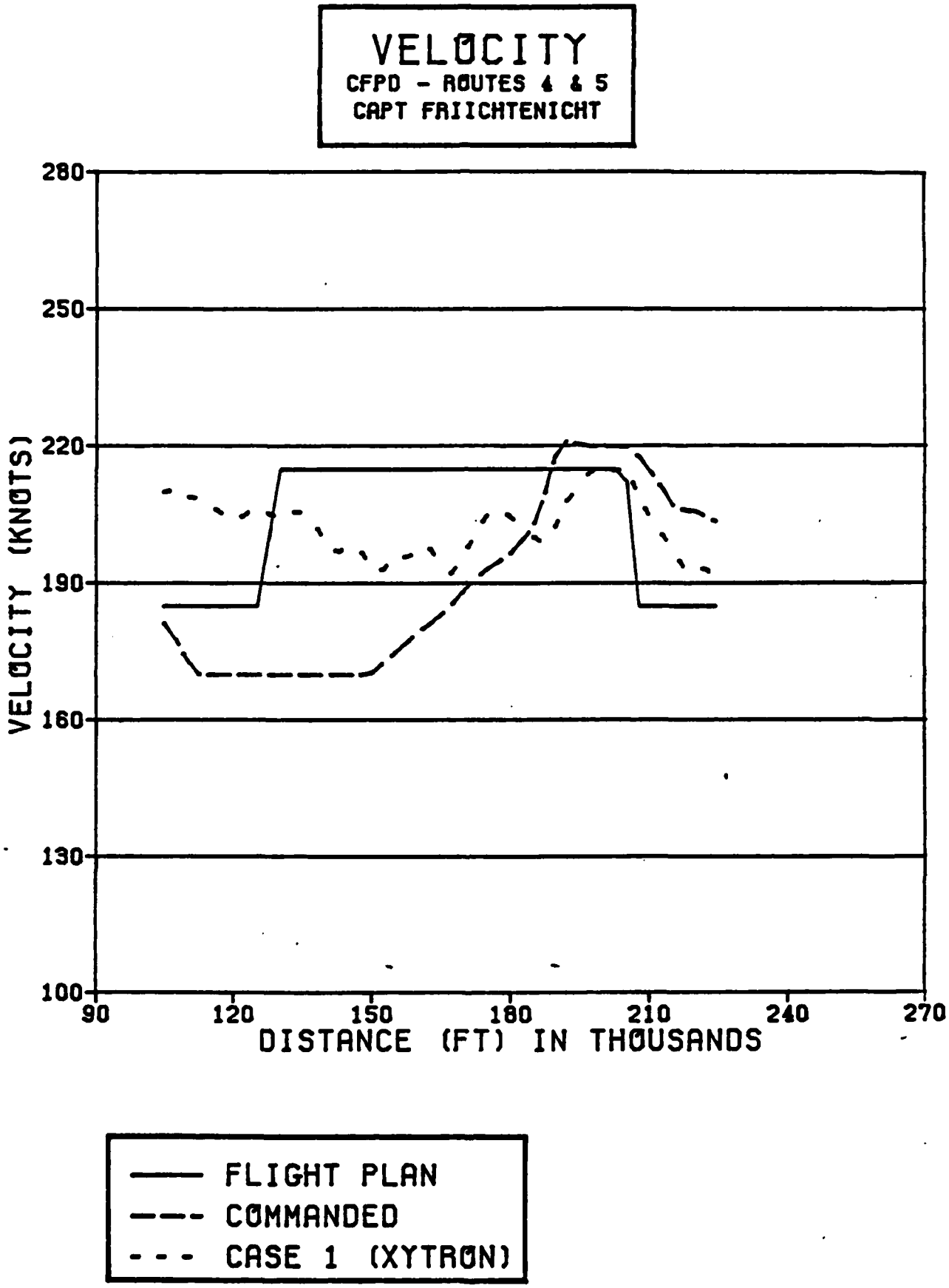

VELØCITY
SYMBØLØGY - RØUTES 6 & 7
CAPT FRIICHTENICHT
280
250
220
190
160
130
100
VELØCITY (KNØTS)
220
240
260
280
300
320
340
DISTANCE (FT) IN THØUSANDS
FLIGHT PLAN
CASE 1 (XYTRØN)

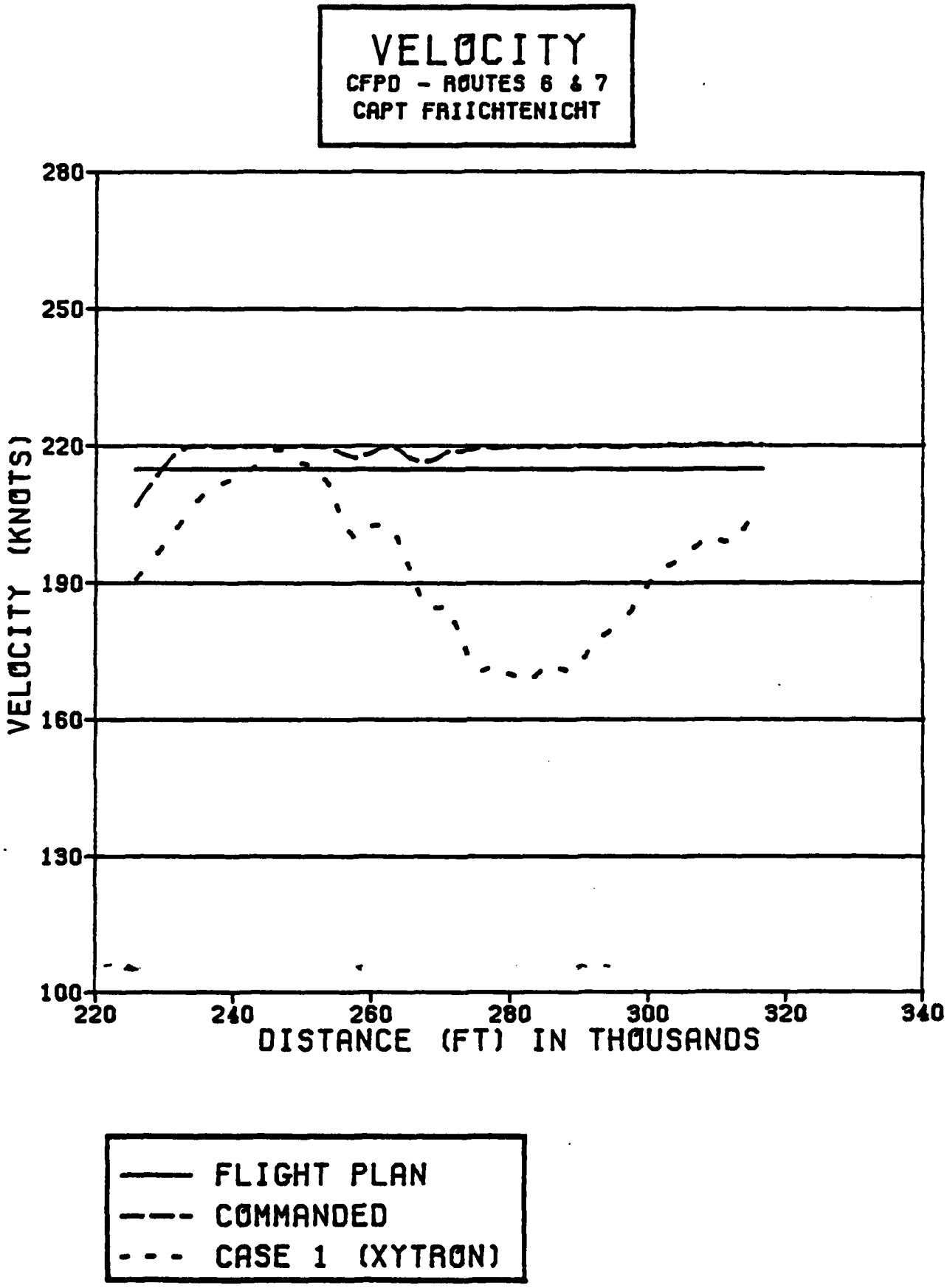

VELØCITY
SYMBØLØGY - RØUTES 8 & 9
CAPT FRIICHTENICHT
280
250
220
190
160
130
100
VELØCITY (KNØTS)
300
320
340
360
380
400
420
DISTANCE (FT) IN THØUSANDS
FLIGHT PLAN
CASE 1 (XYTRØN)

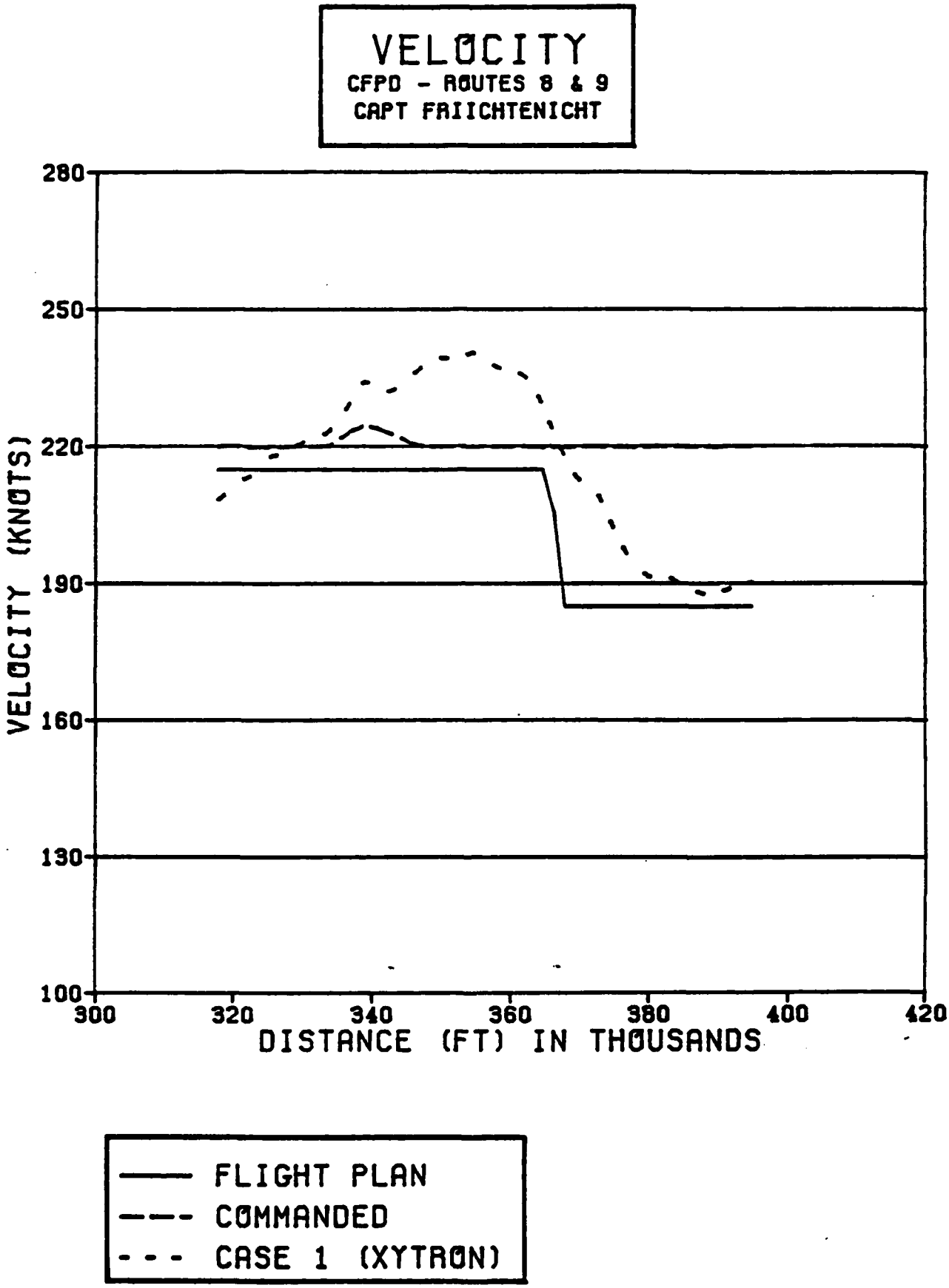

VELØCITY
SYMBØLØGY - RØUTES 10 & 11
CAPT FRIICHTENICHT
280
250
220
190
160
130
100
VELØCITY (KNØTS)
380
400
420
440
460
480
500
DISTANCE (FT) IN THØUSANDS
FLIGHT PLAN
CASE 1 (XYTRØN)

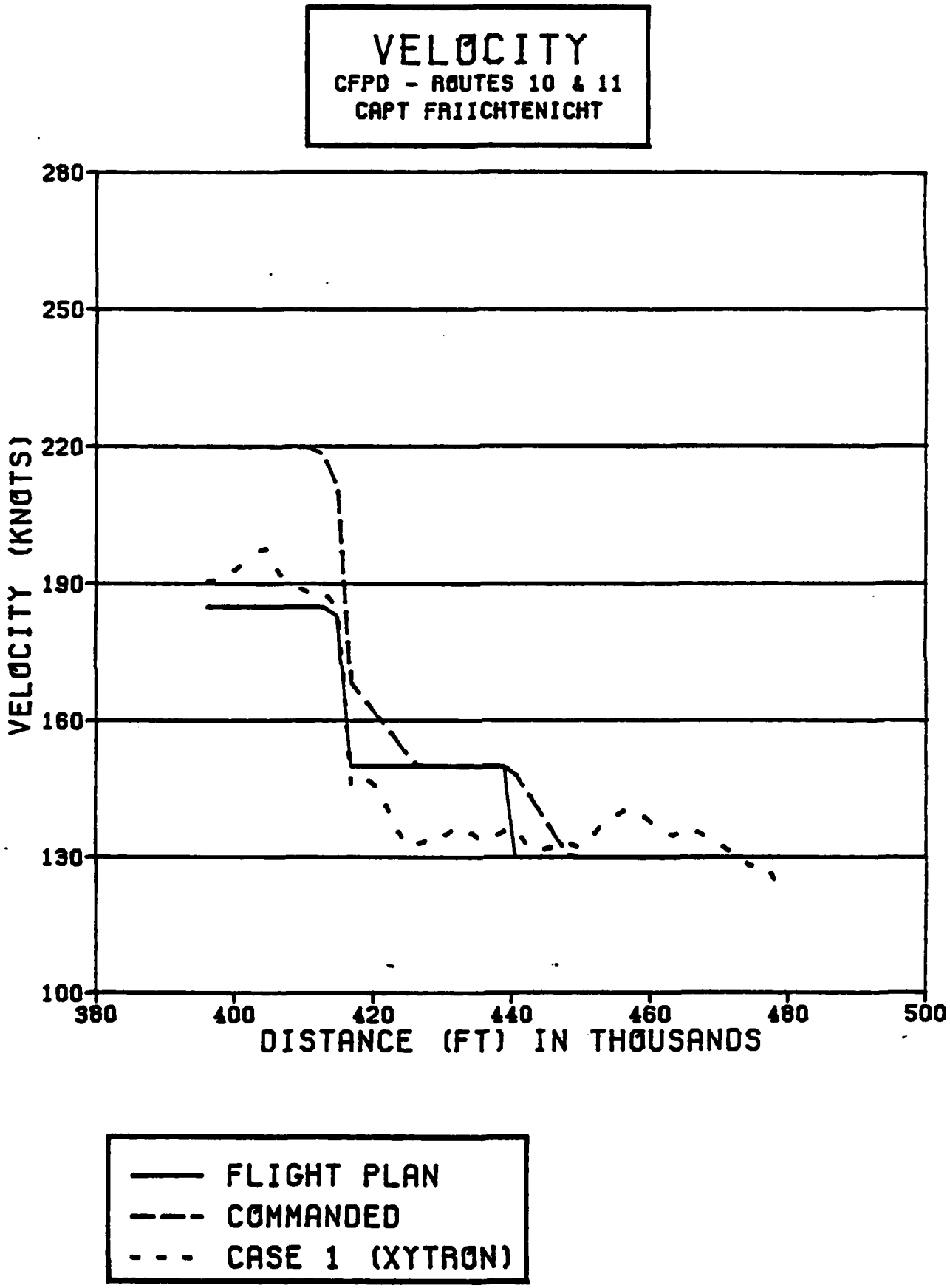

VELOCITY
SYMBOLOGY - NIAGARA 28R
CAPT FRIICHTENICHT
280
250
220
190
160
130
100
VELOCITY (KNOTS)
0
20
40
60
80
100
120
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
CASE 1 (XYTRON)

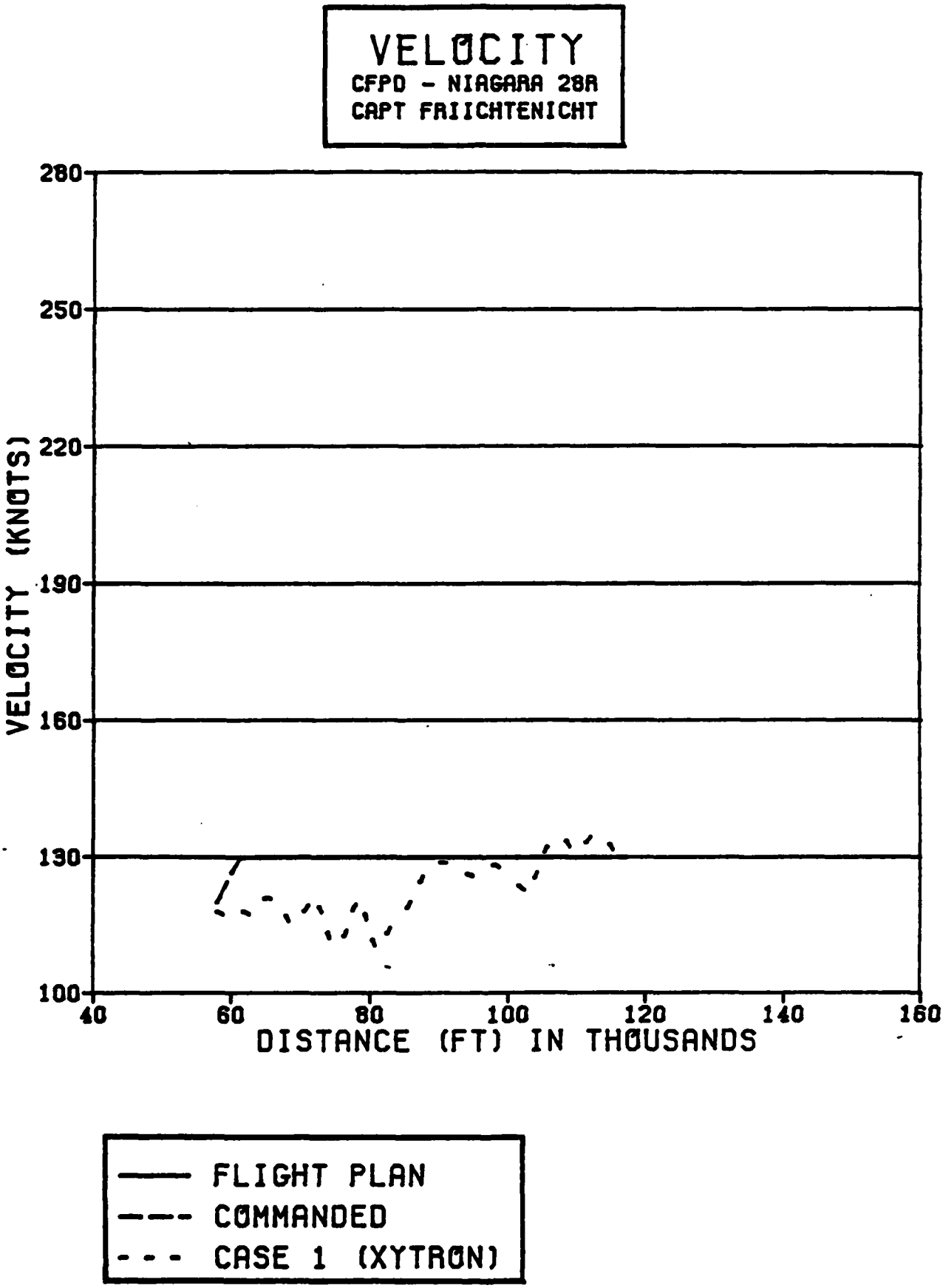

VELØCITY
CFPD - RØUTES 2 & 3
CAPT FRIICHTENICHT
280
250
220
190
160
130
100
VELØCITY (KNØTS)
0
20
40
60
80
100
120
DISTANCE (FT) IN THØUSANDS
FLIGHT PLAN
CØMMANDED
CASE 1 (XYTRØN)


VELOCITY
CFPD - ROUTES 4 & 5
CAPT FRIICHTENICHT
280
250
220
190
160
130
100
VELOCITY (KNOTS)
90
120
150
180
210
240
270
DISTANCE (FT) IN THOUSANDS
FLIGHT PLAN
COMMANDED
CASE 1 (XYTRON)


VELØCITY
CFPD - RØUTES 6 & 7
CAPT FRIICHTENICHT
280
250
220
190
160
130
100
VELØCITY (KNØTS)
220
240
260
280
300
320
340
DISTANCE (FT) IN THØUSANDS
FLIGHT PLAN
CØMMANDED
CASE 1 (XYTRØN)


VELØCITY
CFPD - RØUTES 8 & 9
CAPT FRIICHTENICHT
280
250
220
190
160
130
100
VELØCITY (KNØTS)
300
320
340
360
380
400
420
DISTANCE (FT) IN THØUSANDS
FLIGHT PLAN
CØMMANDED
CASE 1 (XYTRØN)


VELØCITY
CFPD - RØUTES 10 & 11
CAPT FRIICHTENICHT
280
250
220
190
160
130
100
VELØCITY (KNØTS)
380
400
420
440
460
480
500
DISTANCE (FT) IN THØUSANDS
FLIGHT PLAN
CØMMANDED
CASE 1 (XYTRØN)


VELØCITY
CFPD - NIAGARA 28R
CAPT FRIICHTENICHT
280
250
220
190
160
130
100
VELØCITY (KNØTS)
40
60
80
100
120
140
160
DISTANCE (FT) IN THØUSANDS
FLIGHT PLAN
CØMMANDED
CASE 1 (XYTRØN)

END

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