

1378

LaJet Energy Company
Innovative Point Focus Solar Concentrator
U. S. Department of Energy
Contract No. DE-FC04-85 ET30171

PHASE I TOPICAL REPORT

Volume 1 of 5

INTRODUCTION, PRELIMINARY DESIGN
AND WIND LOADING

APPENDIX B

REDUCED DATA OF CSU WIND-TUNNEL STUDY

March 7, 1986

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Program Manager

Monte A. McGlaun, P.E.
Project Manager

Roger D. Wiley
Senior Mechanical Engineer
Larry Payne
Senior Electronics Engineer

Dr. Al Johnson
Mechanical Design Consultant
Electro-Thermo Associates

Dr. Bruce Billings
Optical Consultant
International Technology

Dean Low
Contracts, Purchasing and Costing

Bill Keith
Gary Thomas
Senior Technicians - Abilene

John Linch
Mike Taylor
Senior Technicians - SOLARPLANT 1

C. D. Irby
Chuck Weeth
Designer/Draftsman

The logo for LaJet Energy Company features the word "LaJet" in a stylized, lowercase font with a horizontal line through the middle of the letters. Below "LaJet" is the word "ENERGY" in a bold, uppercase font, and below that is the word "COMPANY" in a smaller, uppercase font.

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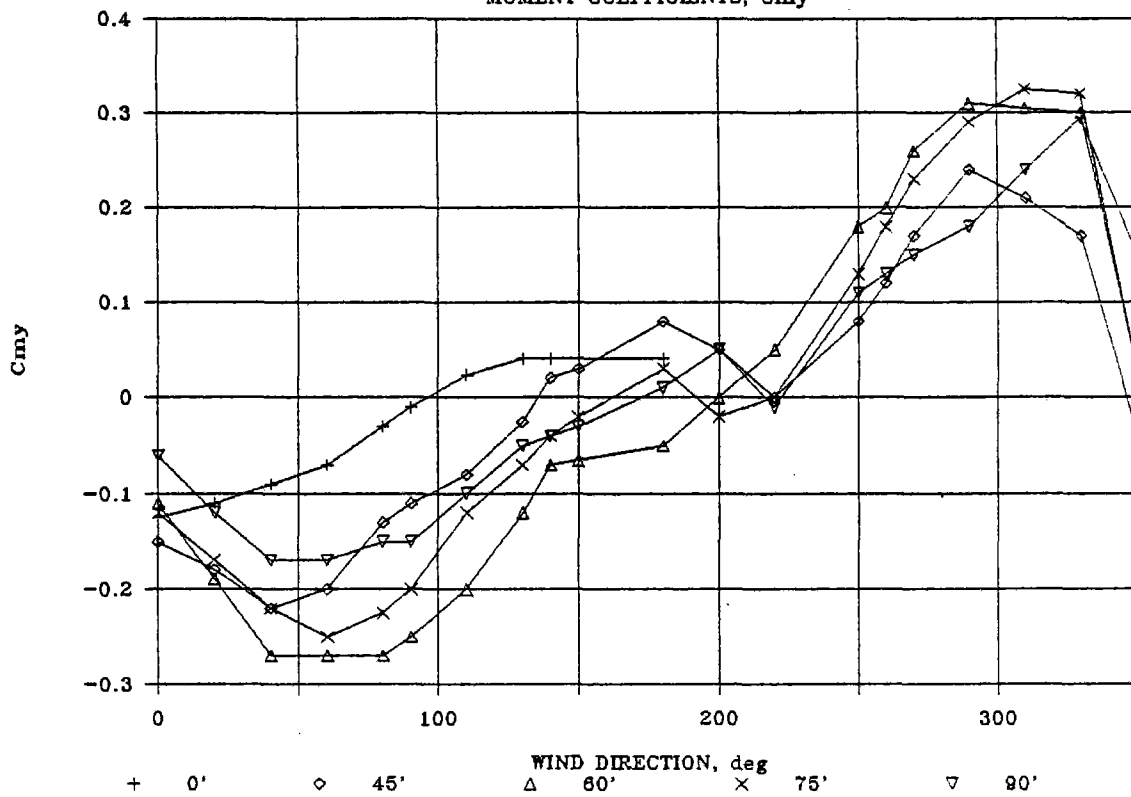
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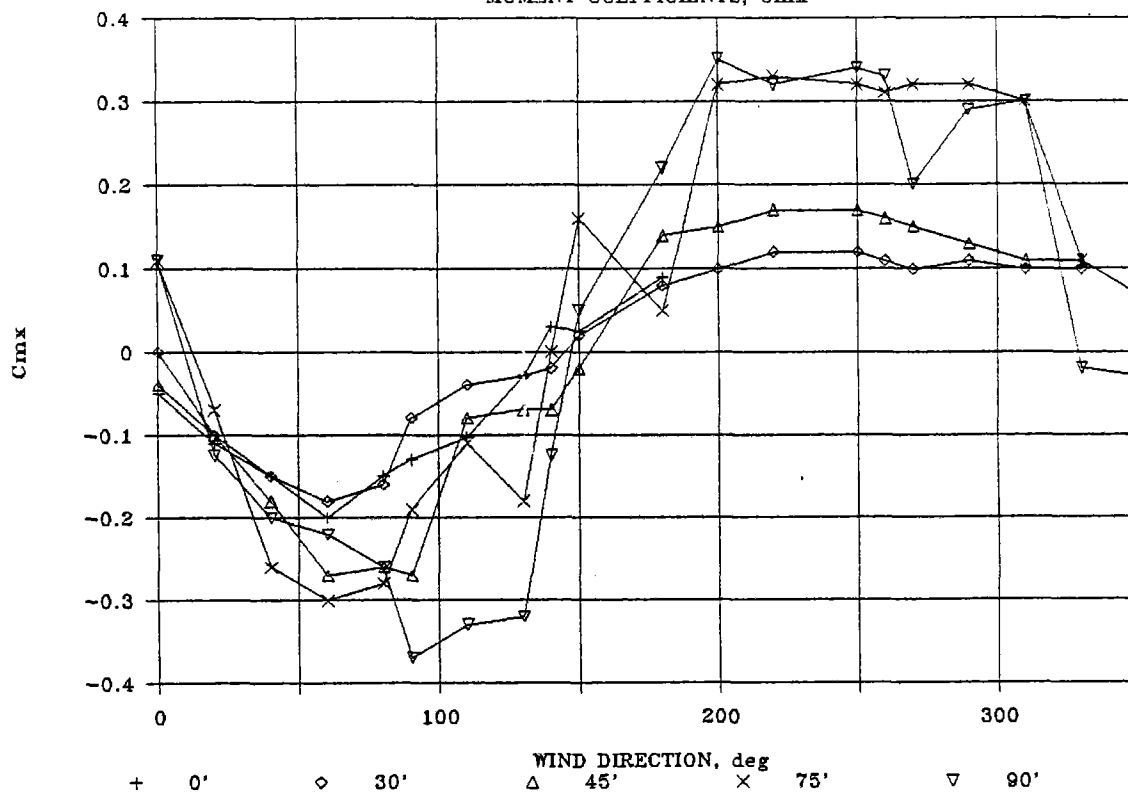
DIURNAL CONDITION

MOMENT COEFFICIENTS, C_{my}



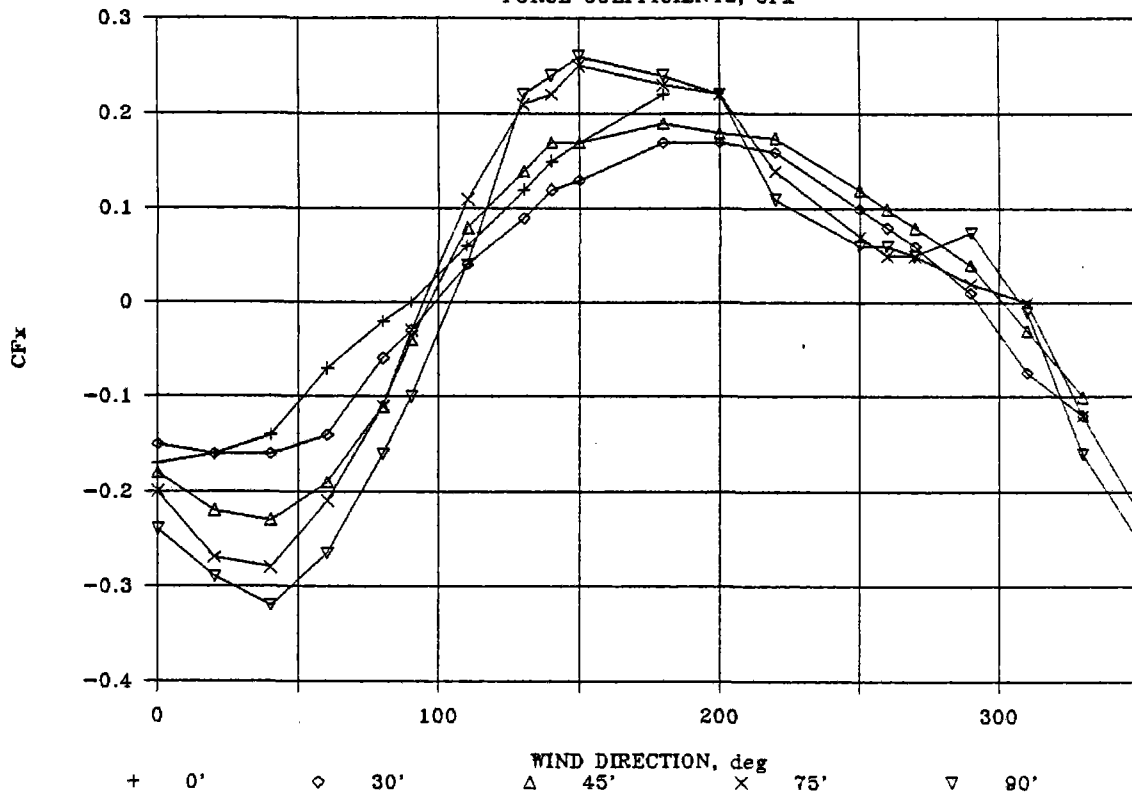
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MOMENT COEFFICIENTS, C_{mx}



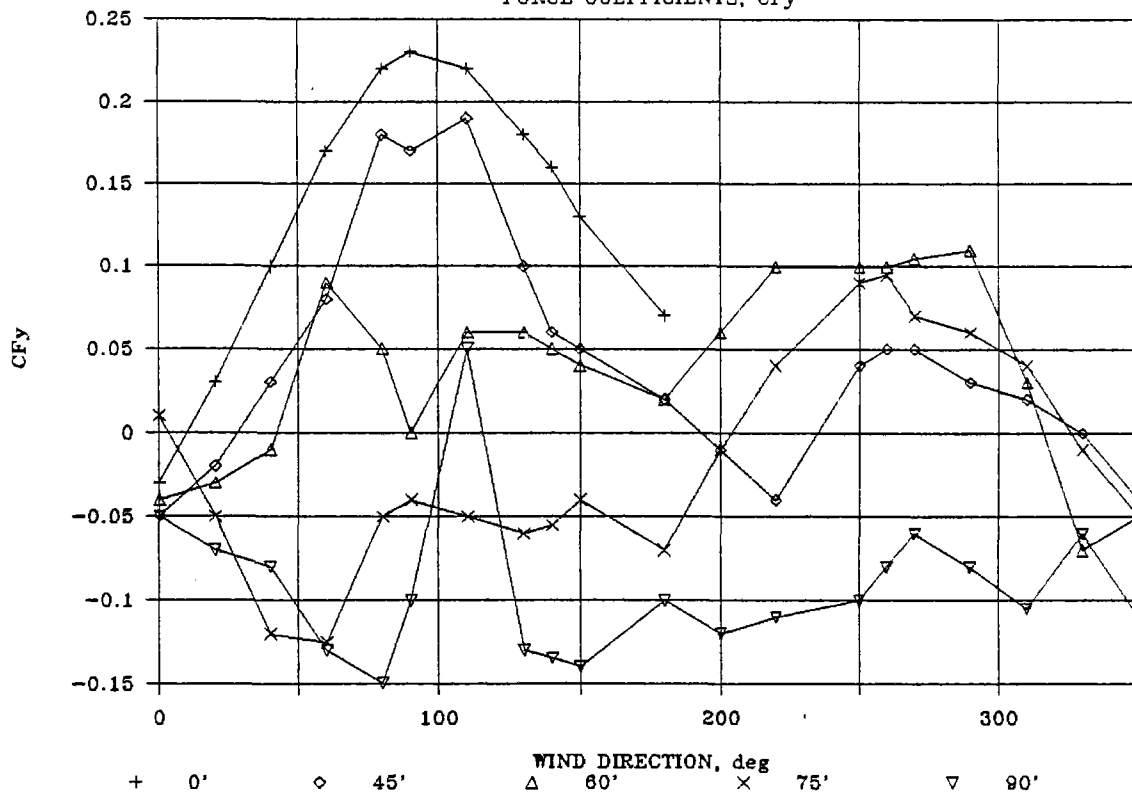
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FORCE COEFFICIENTS, CF_x



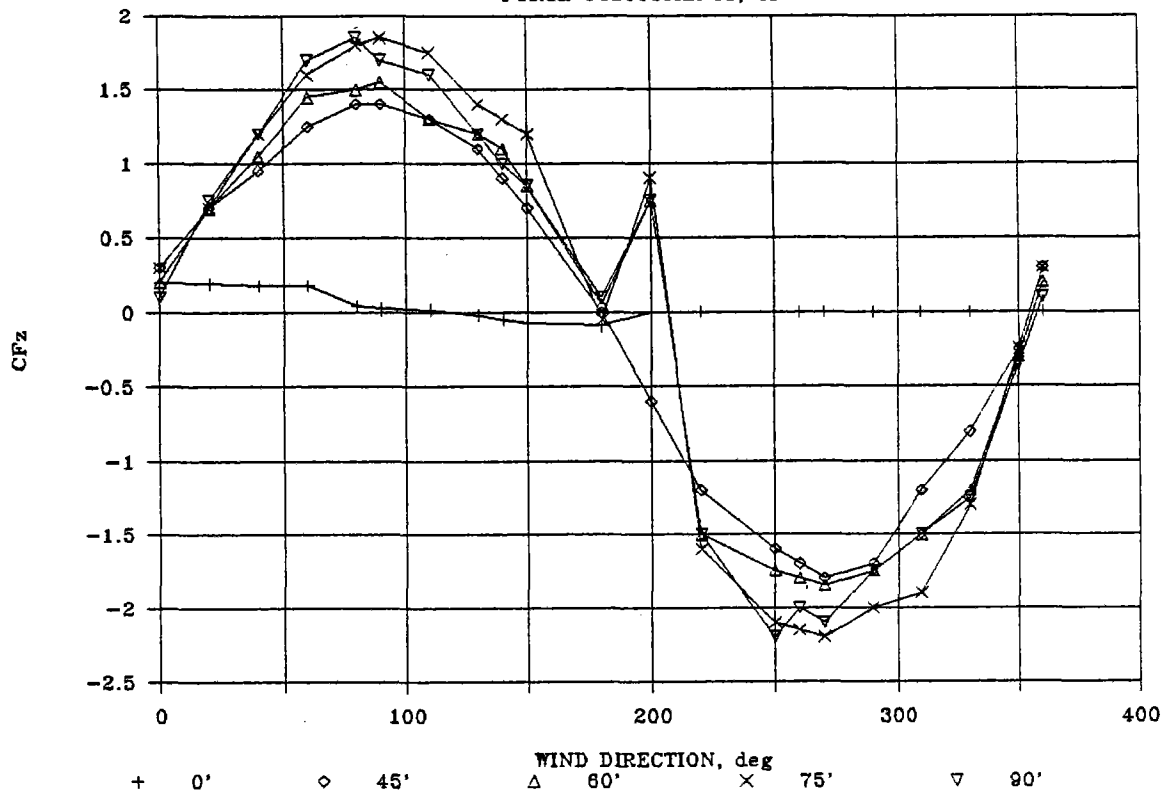
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FORCE COEFFICIENTS, CF_y



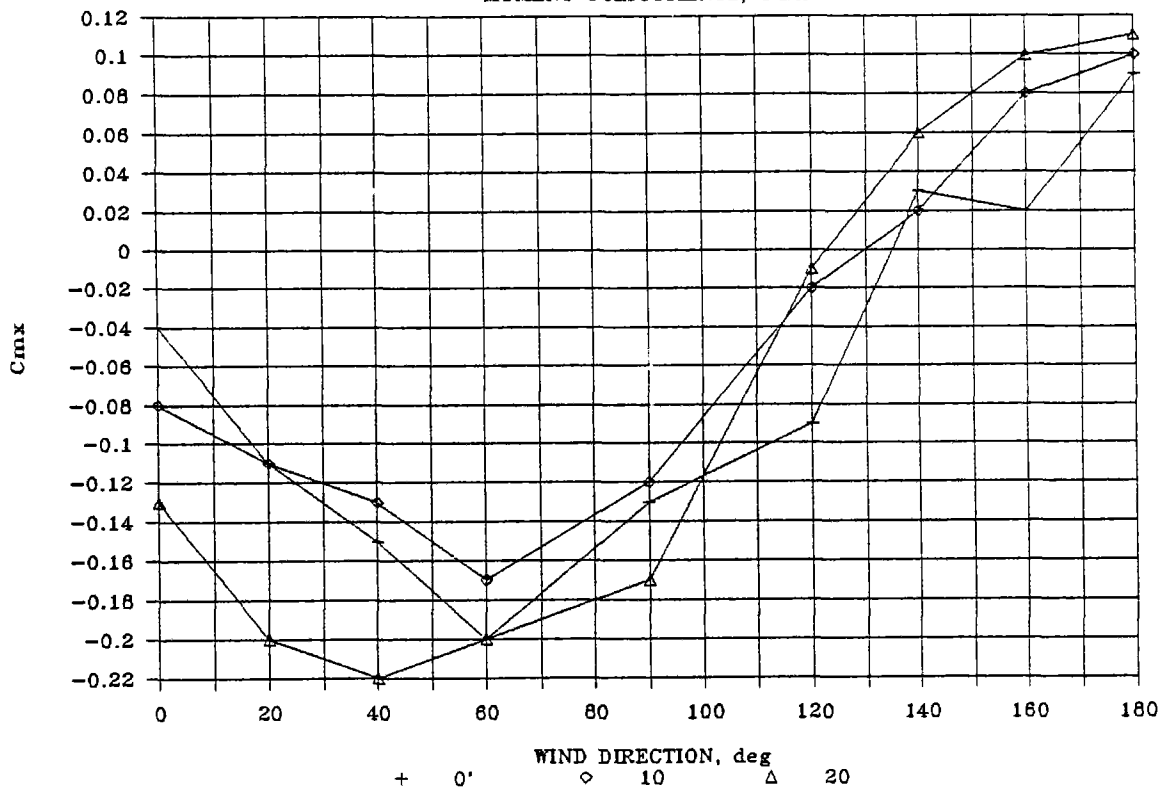
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FORCE COEFFICIENTS, C_{Fz}



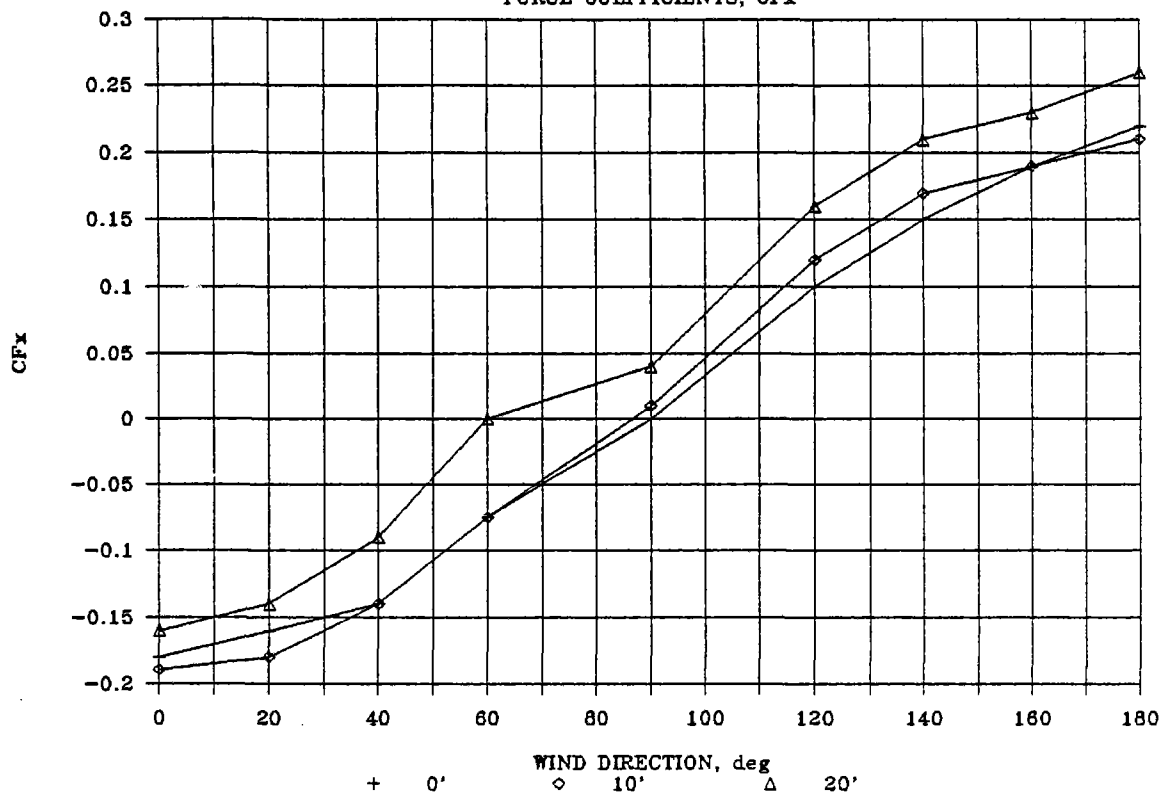
DECLINATION CONDITION

MOMENT COEFFICIENTS, C_{mx}



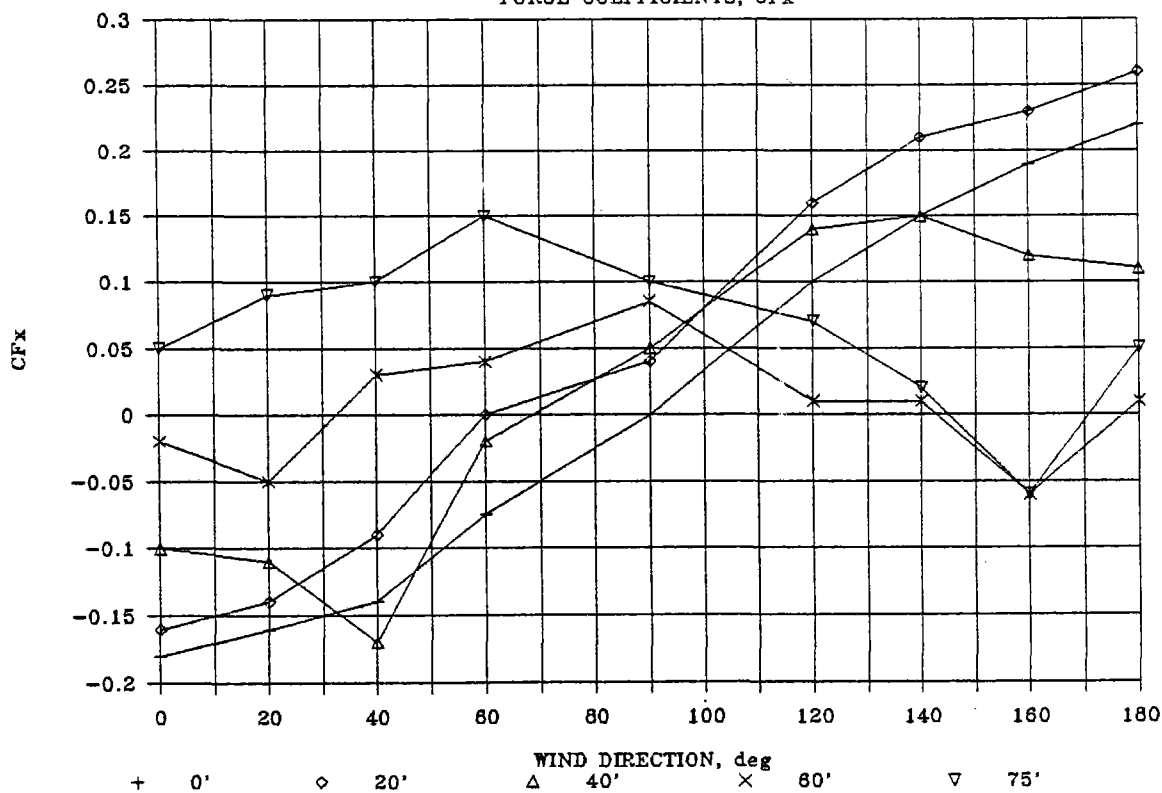
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FORCE COEFFICIENTS, CF_x



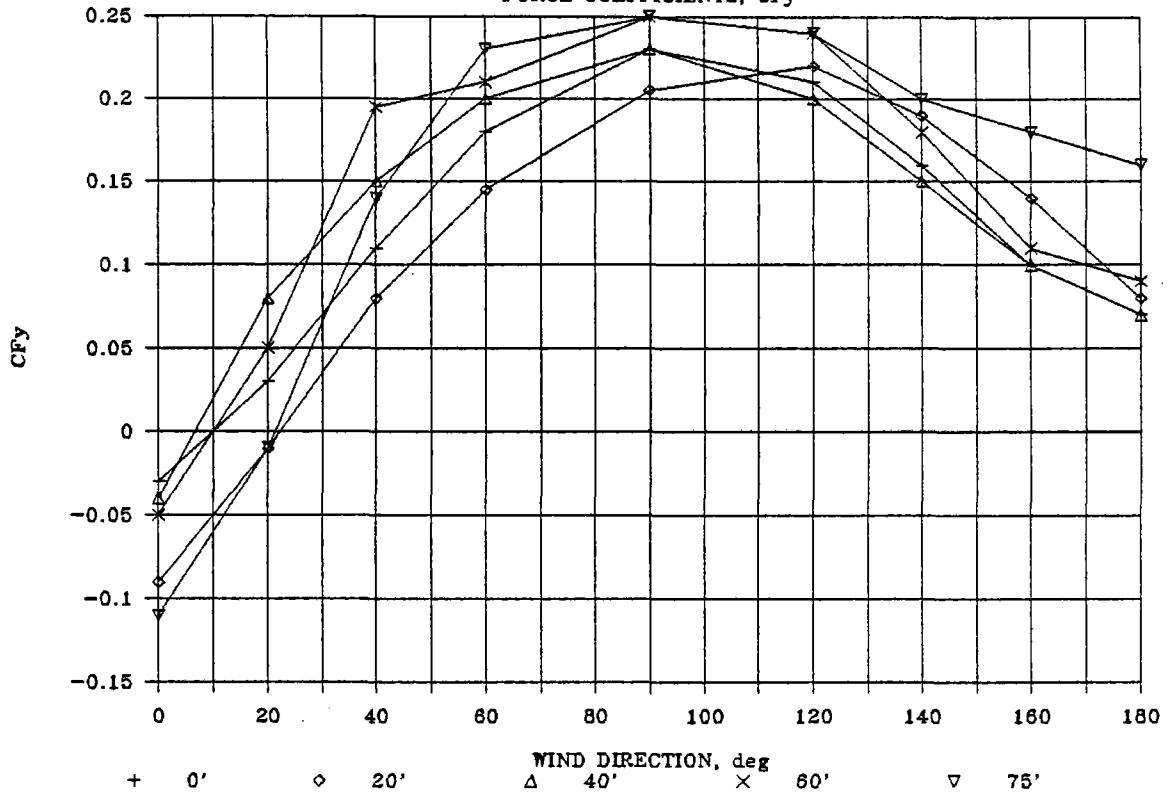
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FORCE COEFFICIENTS, CF_x



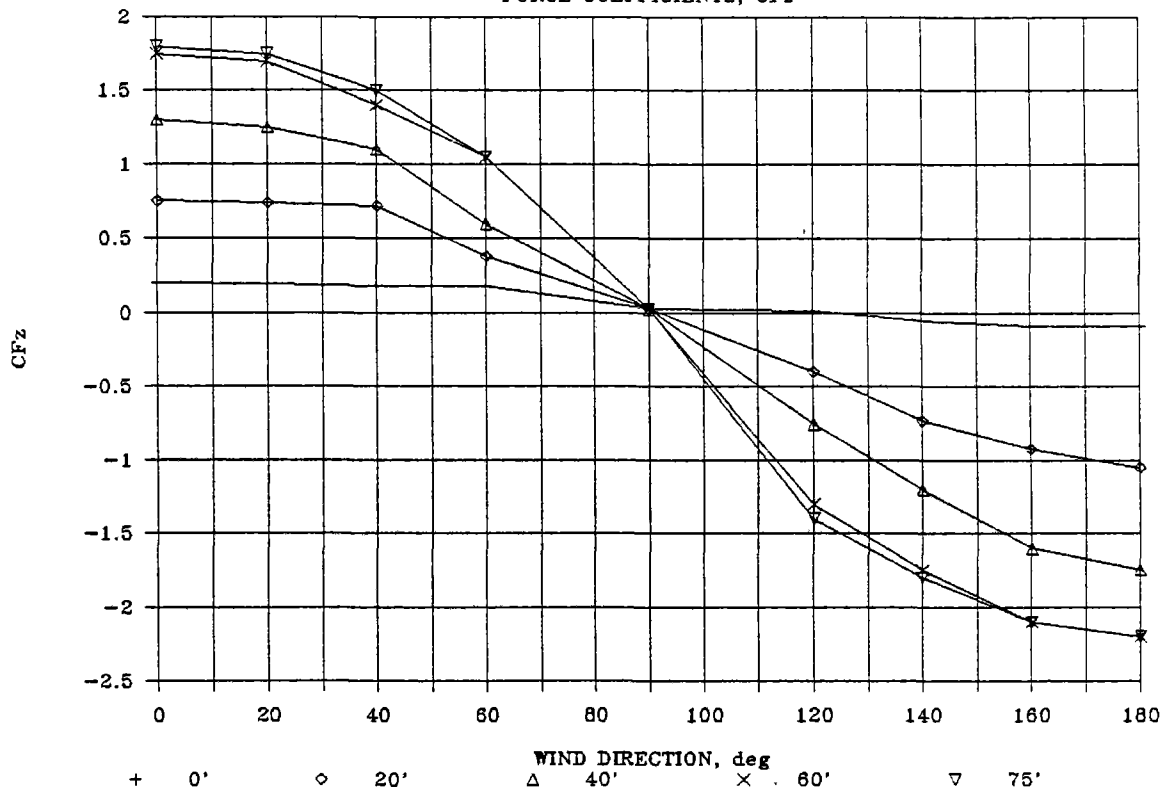
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FORCE COEFFICIENTS, CF_y

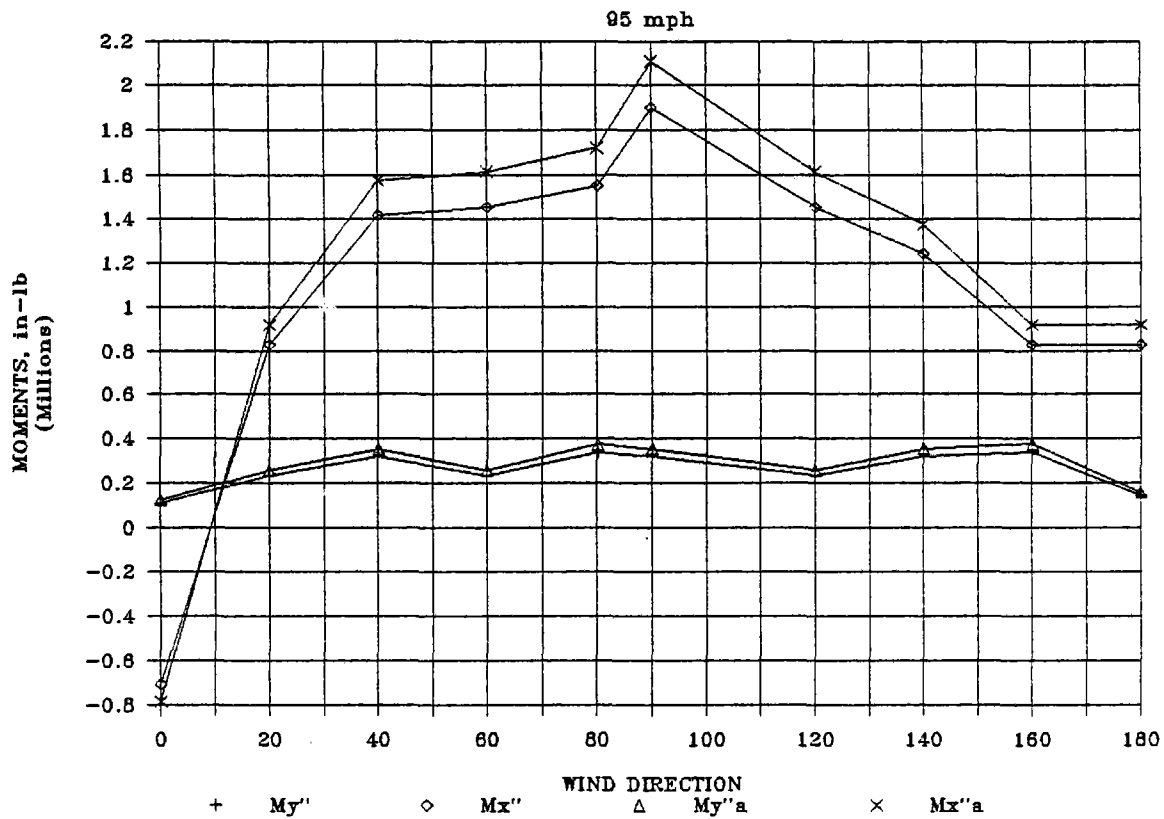


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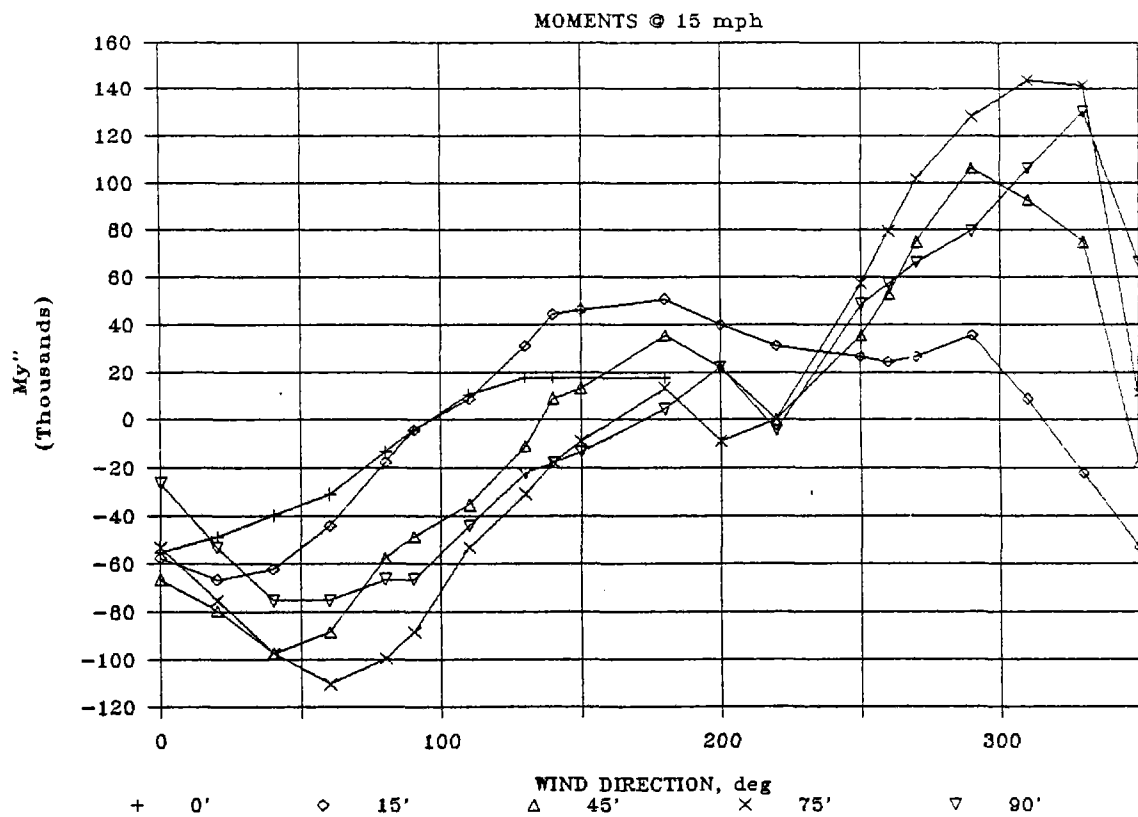
FORCE COEFFICIENTS, CF_z



UMBRELLA POSITION

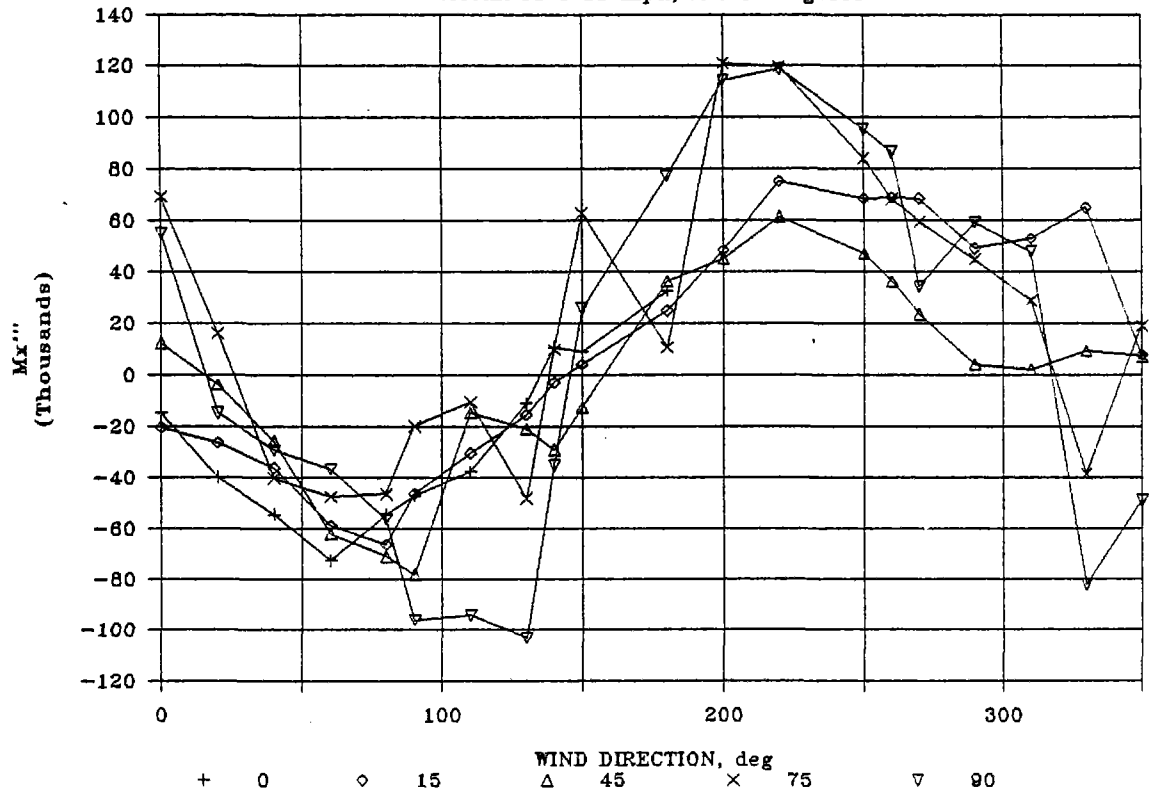


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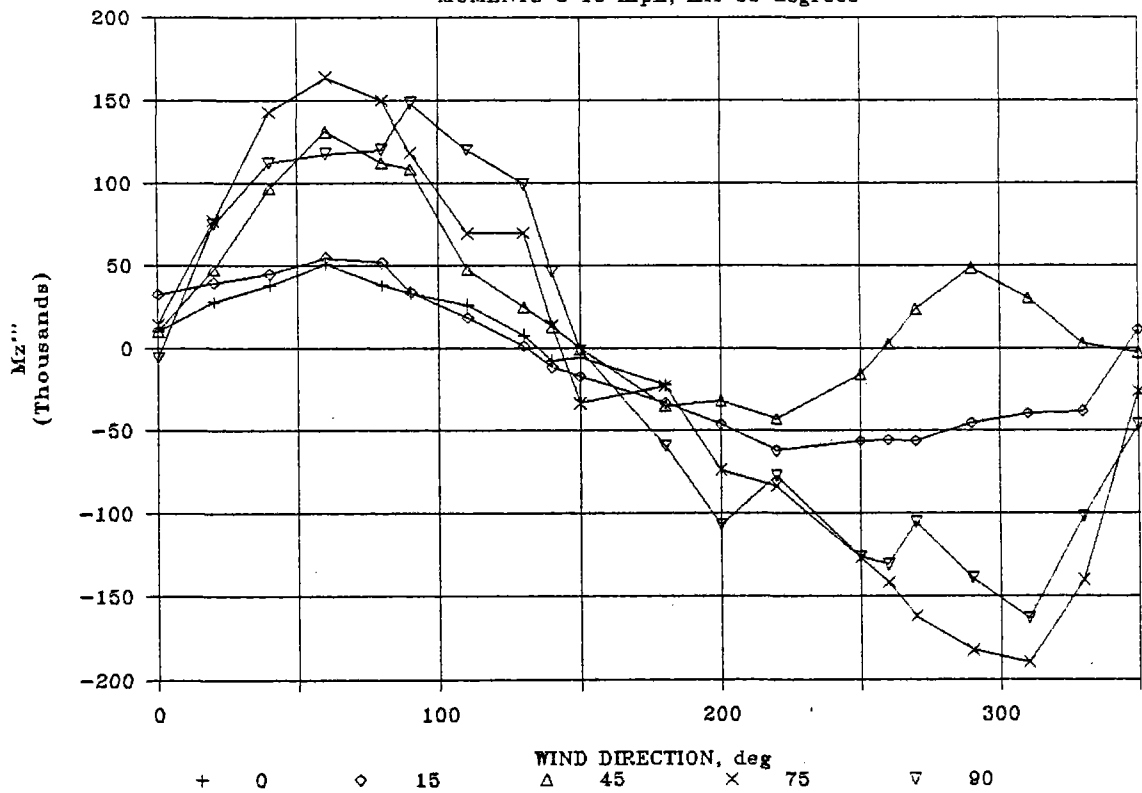
DIURNAL CONDITION

MOMENTS @ 15 mph, LAT 35 degrees



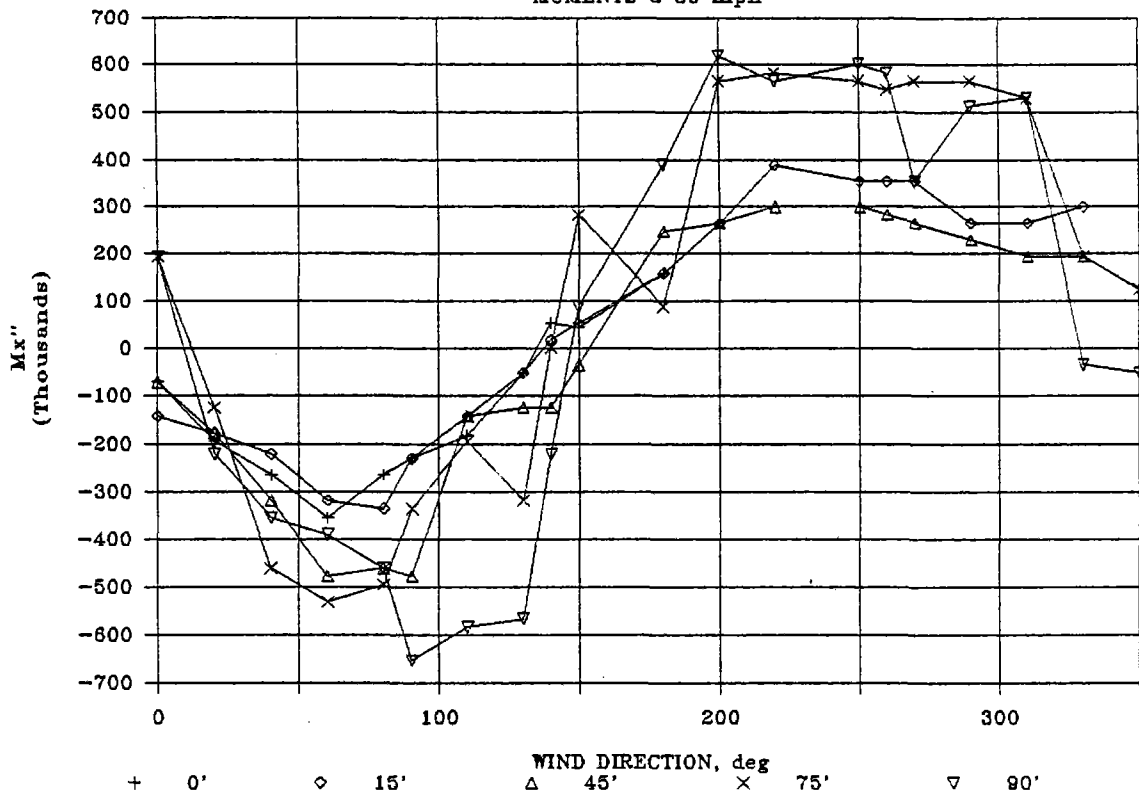
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MOMENTS @ 15 mph, LAT 35 degrees



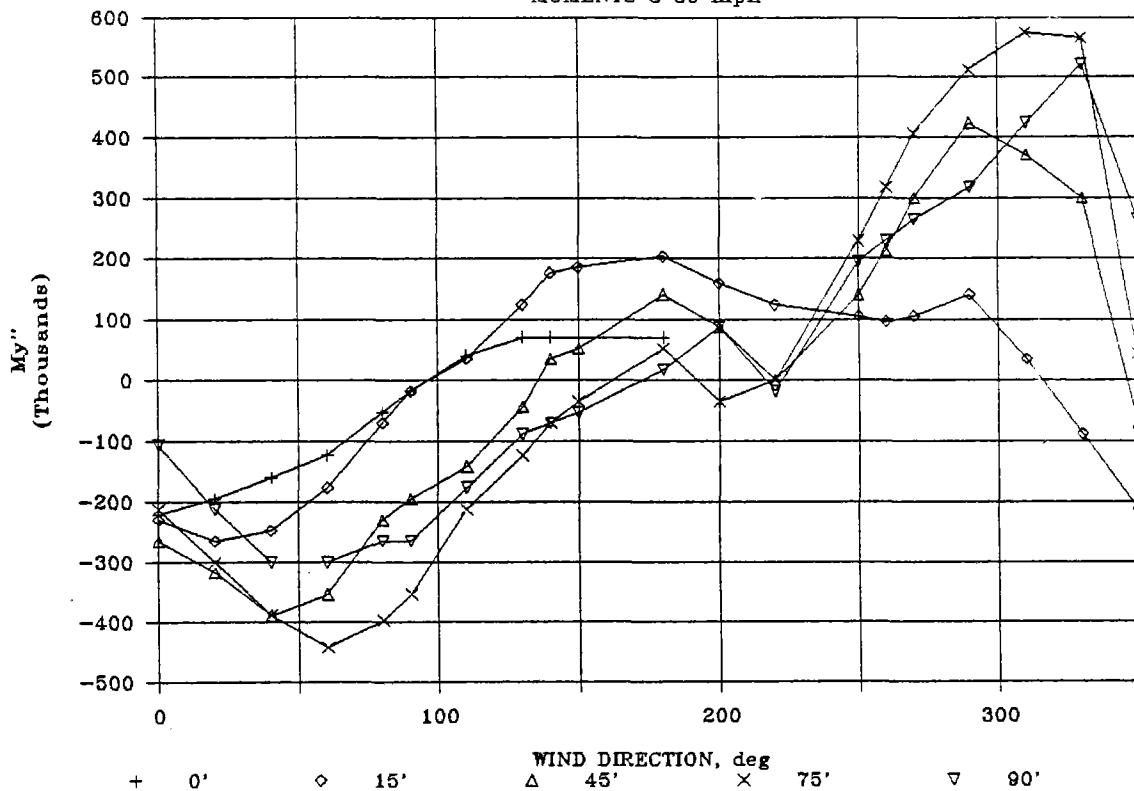
DIURNAL CONDITION

MOMENTS @ 30 mph



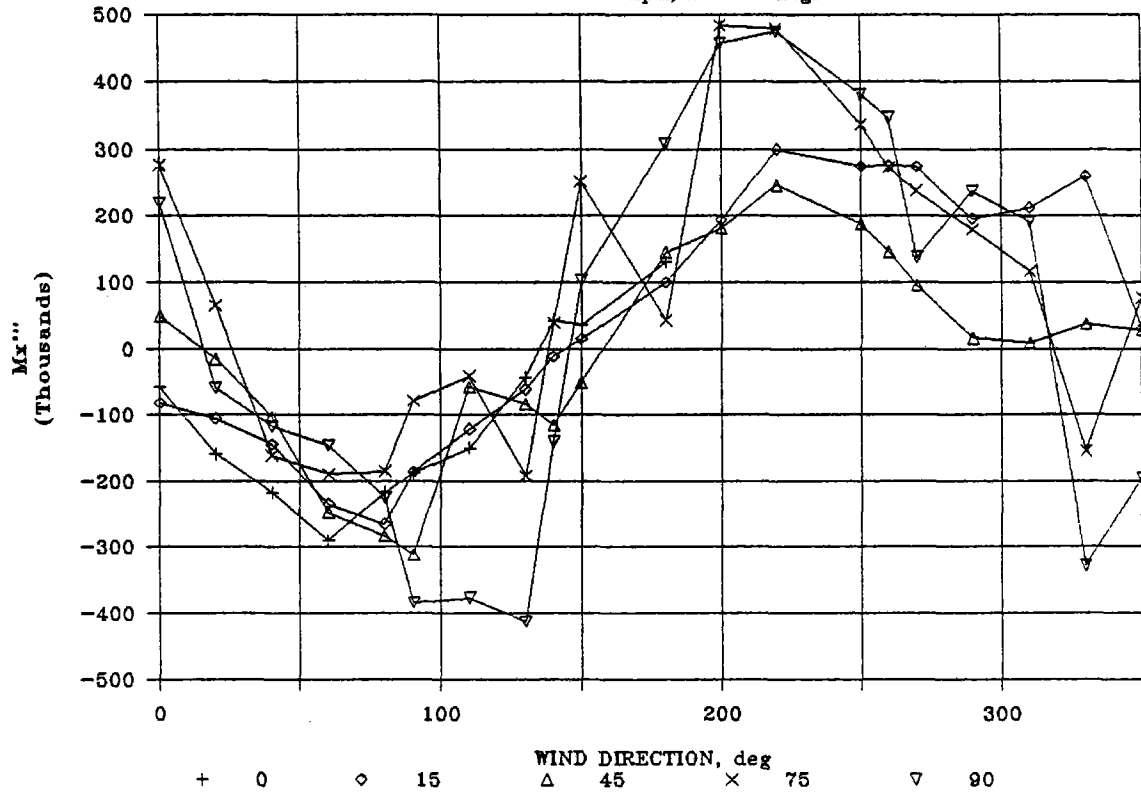
DIURNAL CONDITION

MOMENTS @ 30 mph



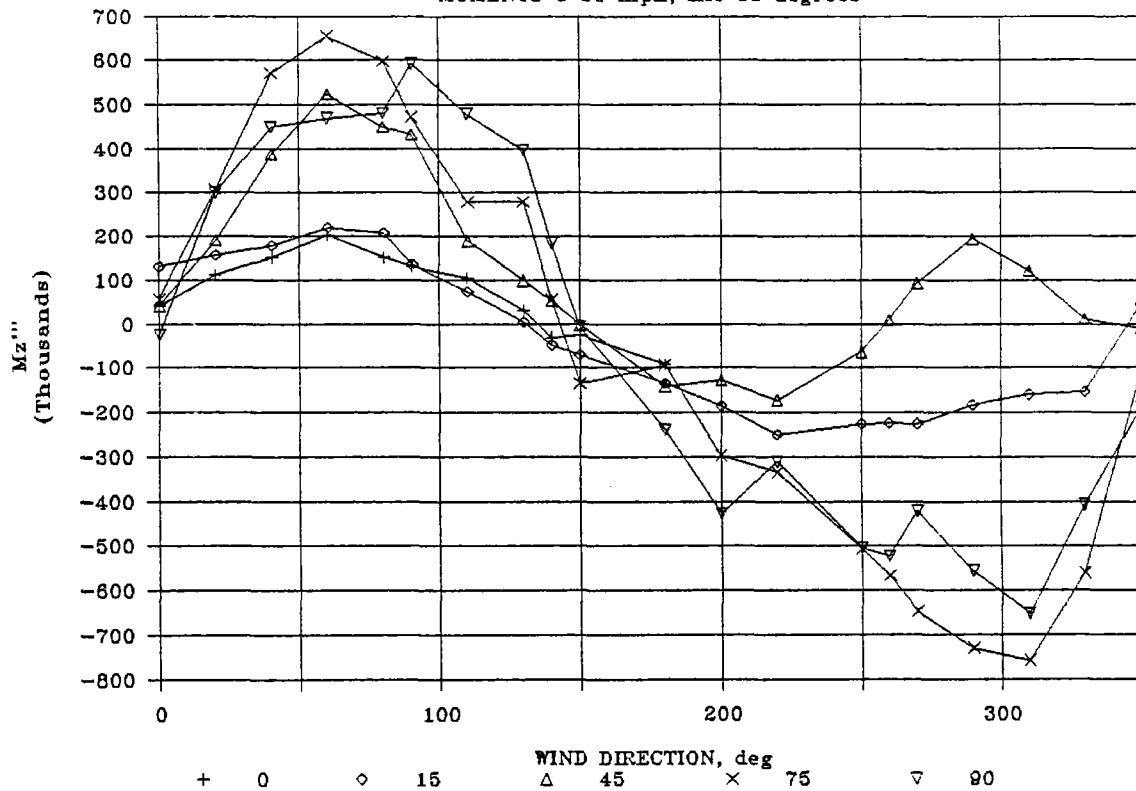
DIURNAL CONDITION

MOMENTS @ 30 mph, LAT 35 degrees



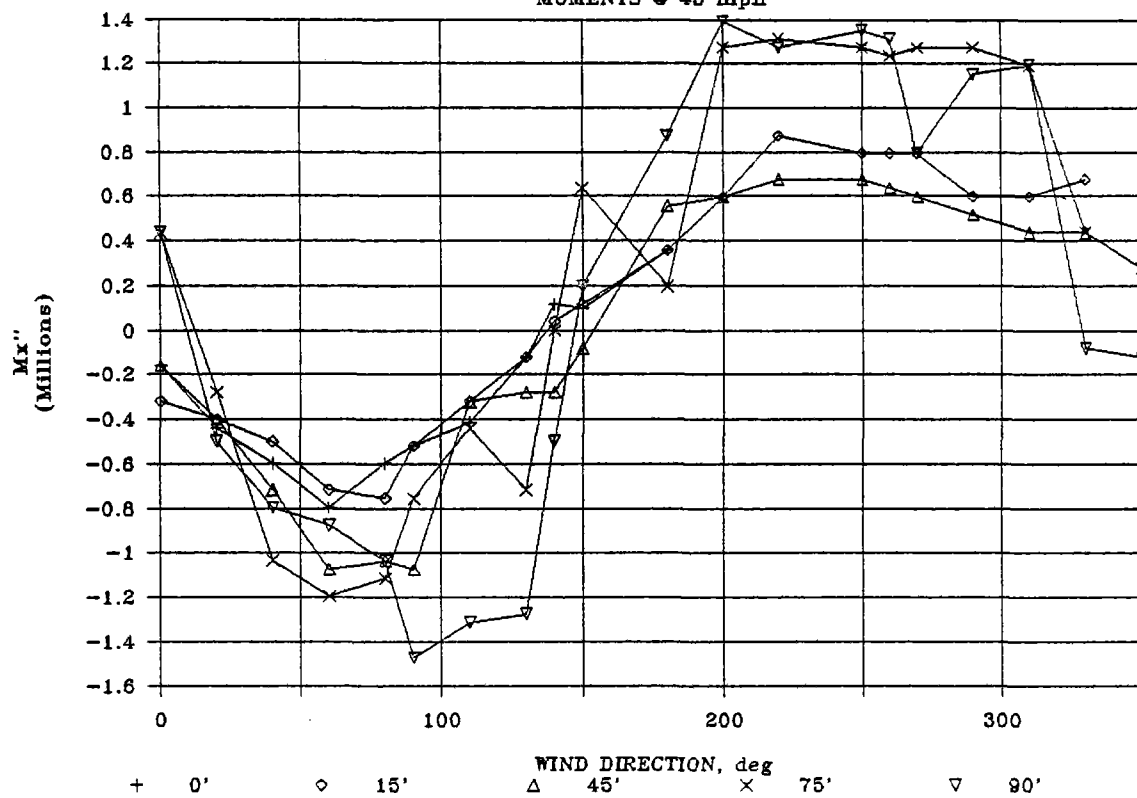
DIURNAL CONDITION

MOMENTS @ 30 mph, LAT 35 degrees



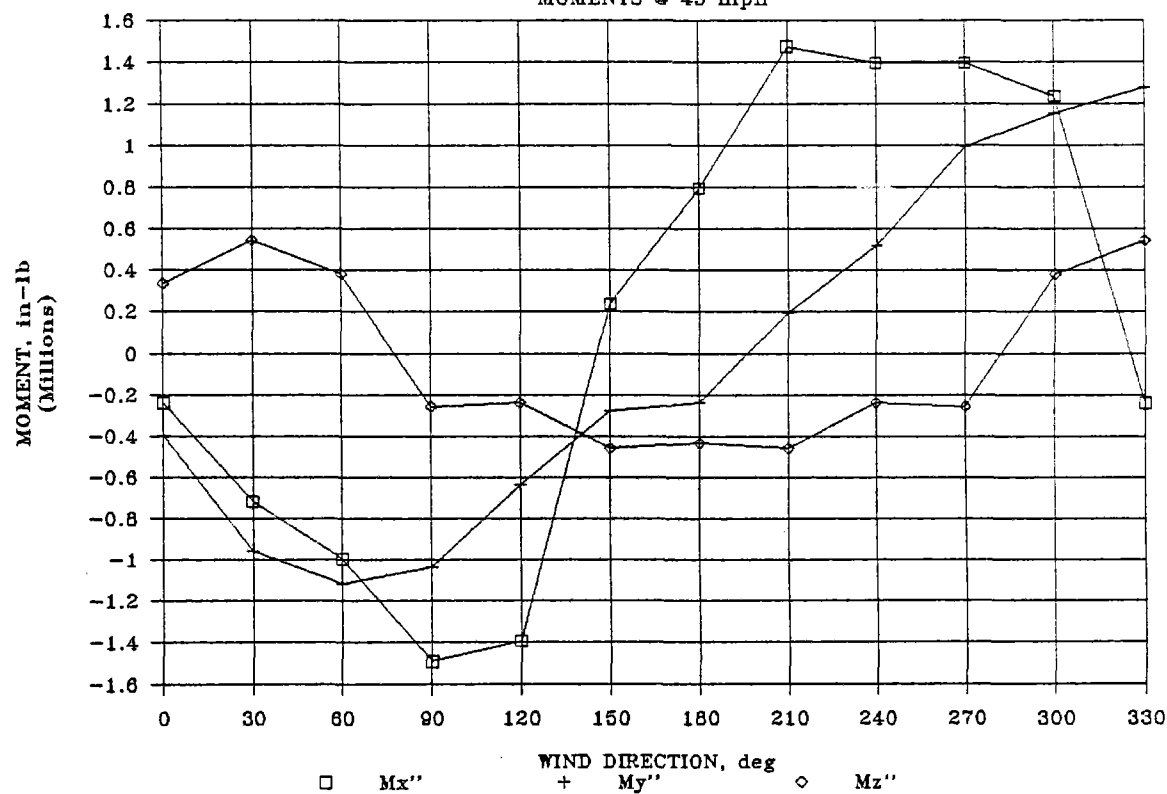
DIURNAL CONDITION

MOMENTS @ 45 mph



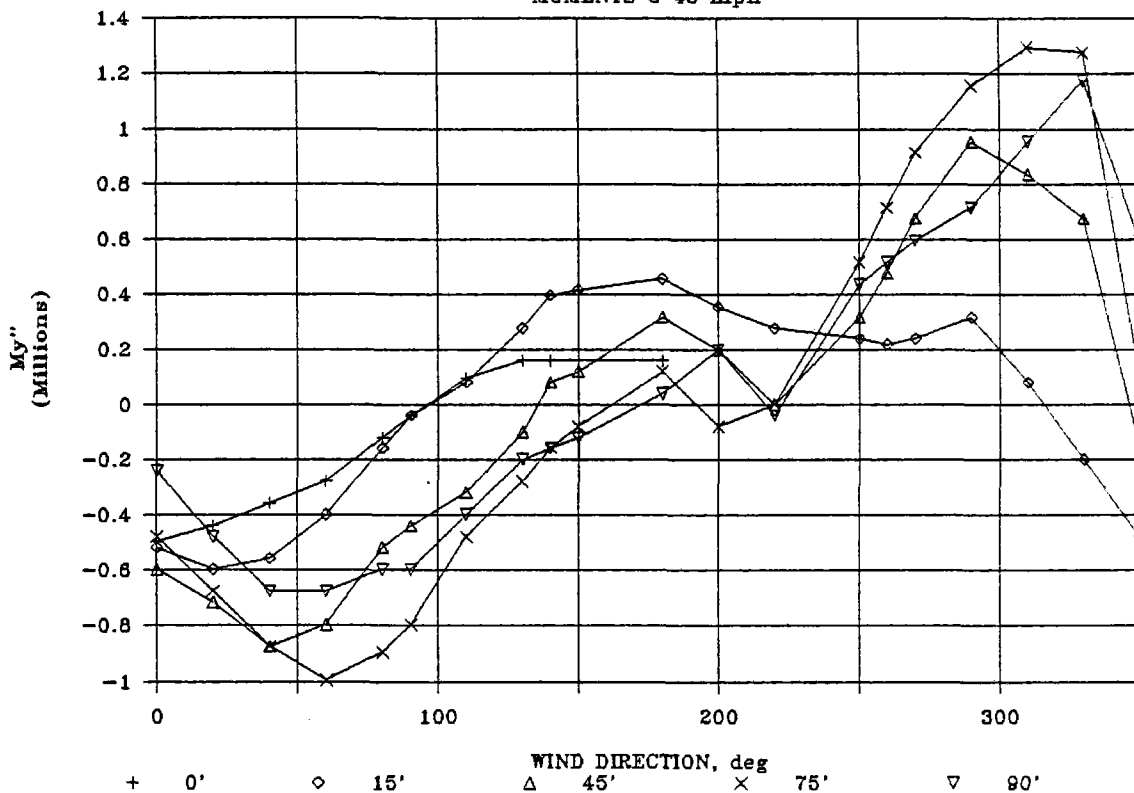
DIURNAL CONDITION

MOMENTS @ 45 mph



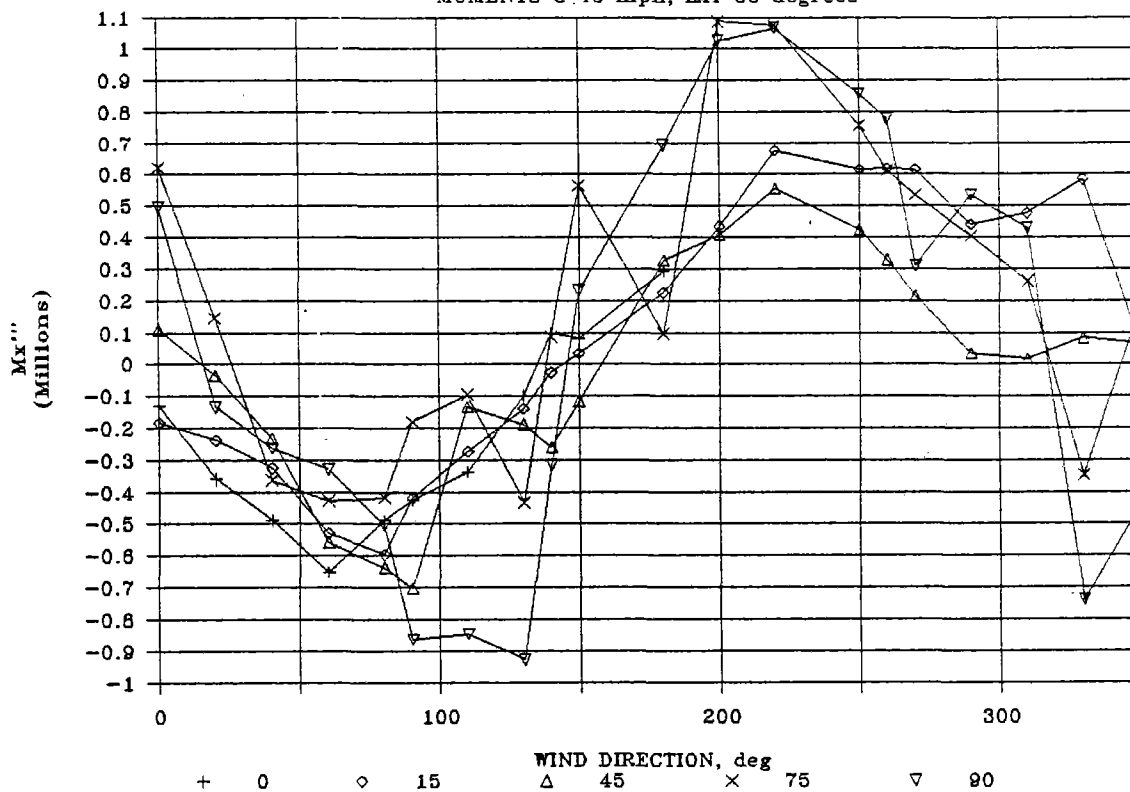
DIURNAL CONDITION

MOMENTS @ 45 mph



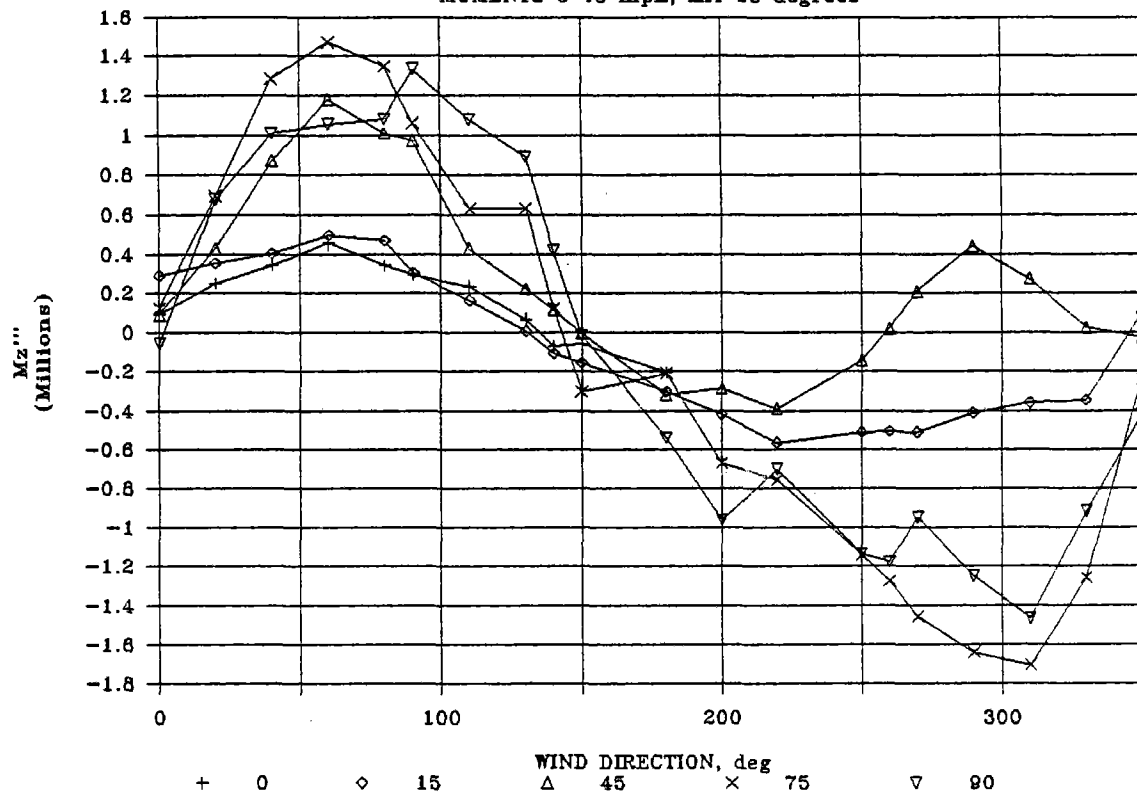
DIURNAL CONDITION

MOMENTS @ 45 mph, LAT 35 degrees



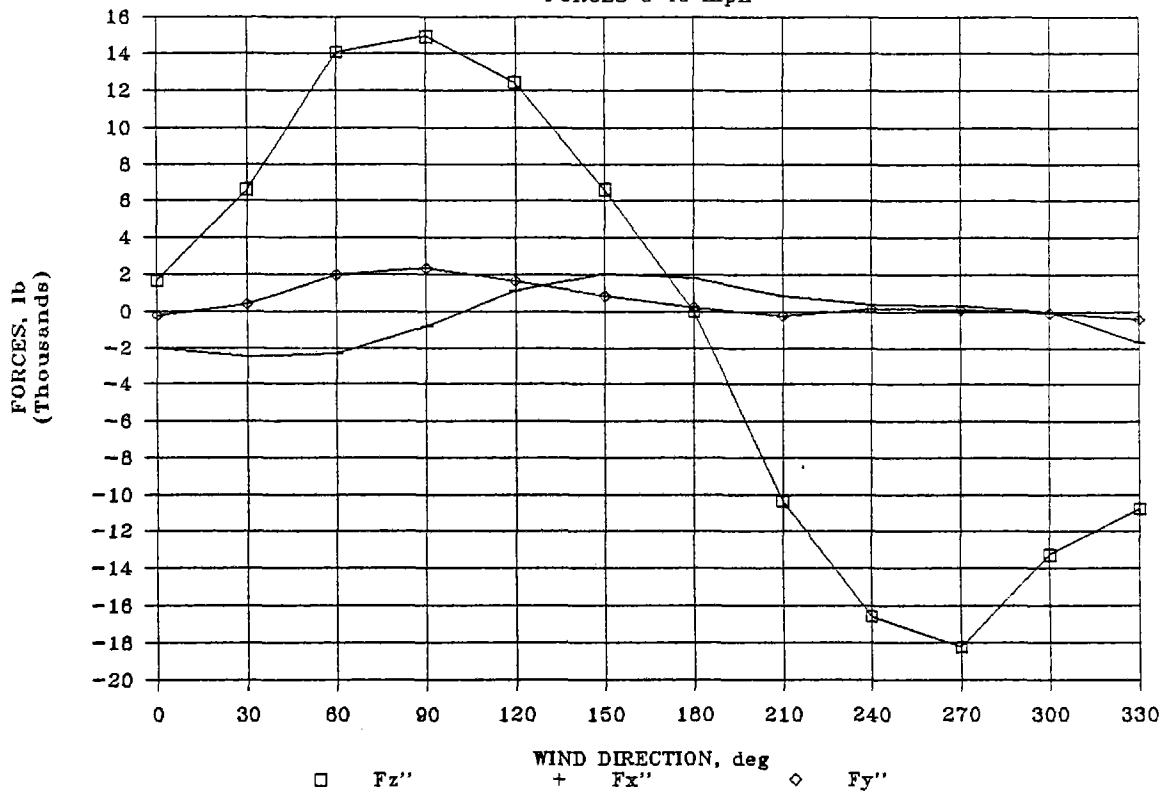
DIURNAL CONDITION

MOMENTS @ 45 mph, LAT 35 degrees



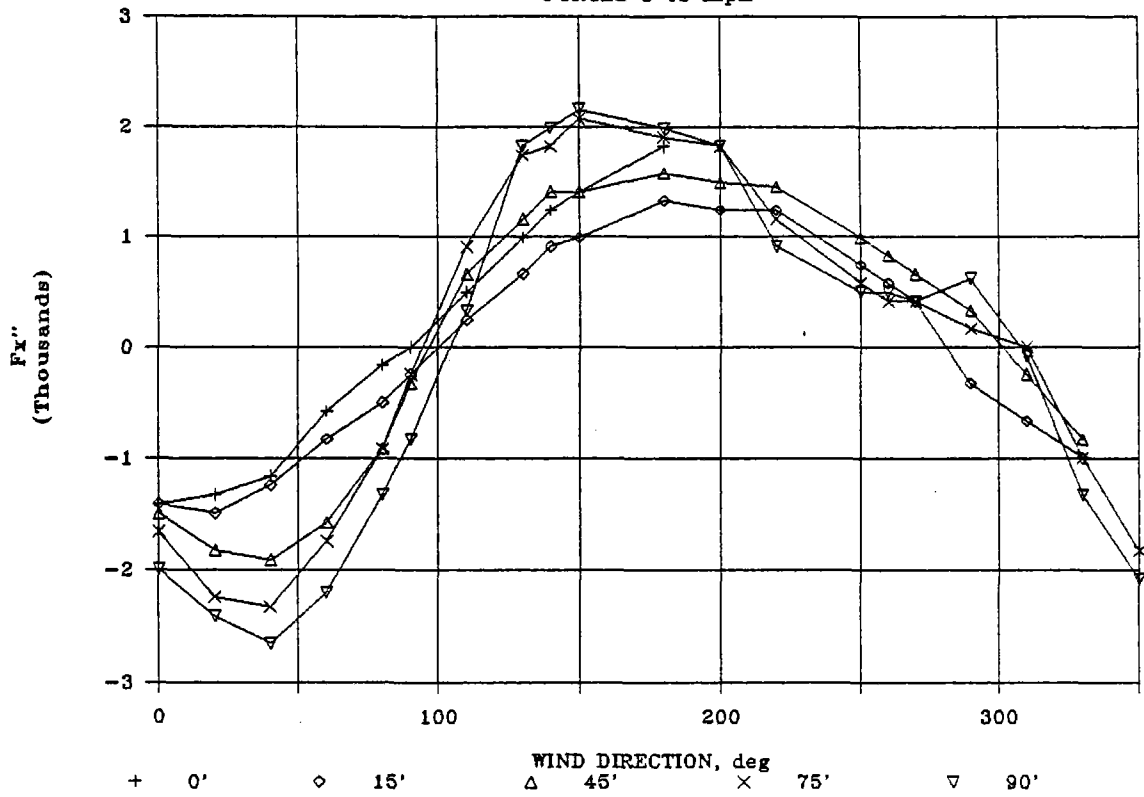
DIURNAL CONDITION

FORCES @ 45 mph



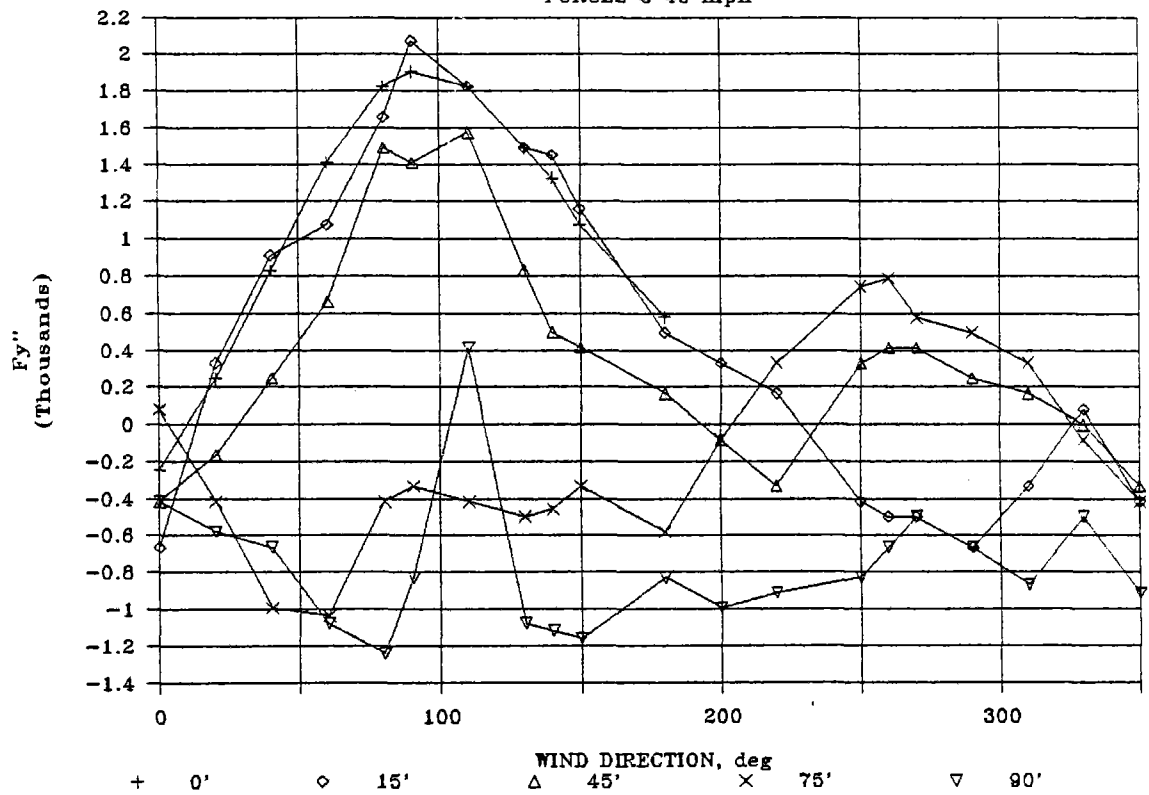
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FORCES @ 45 mph



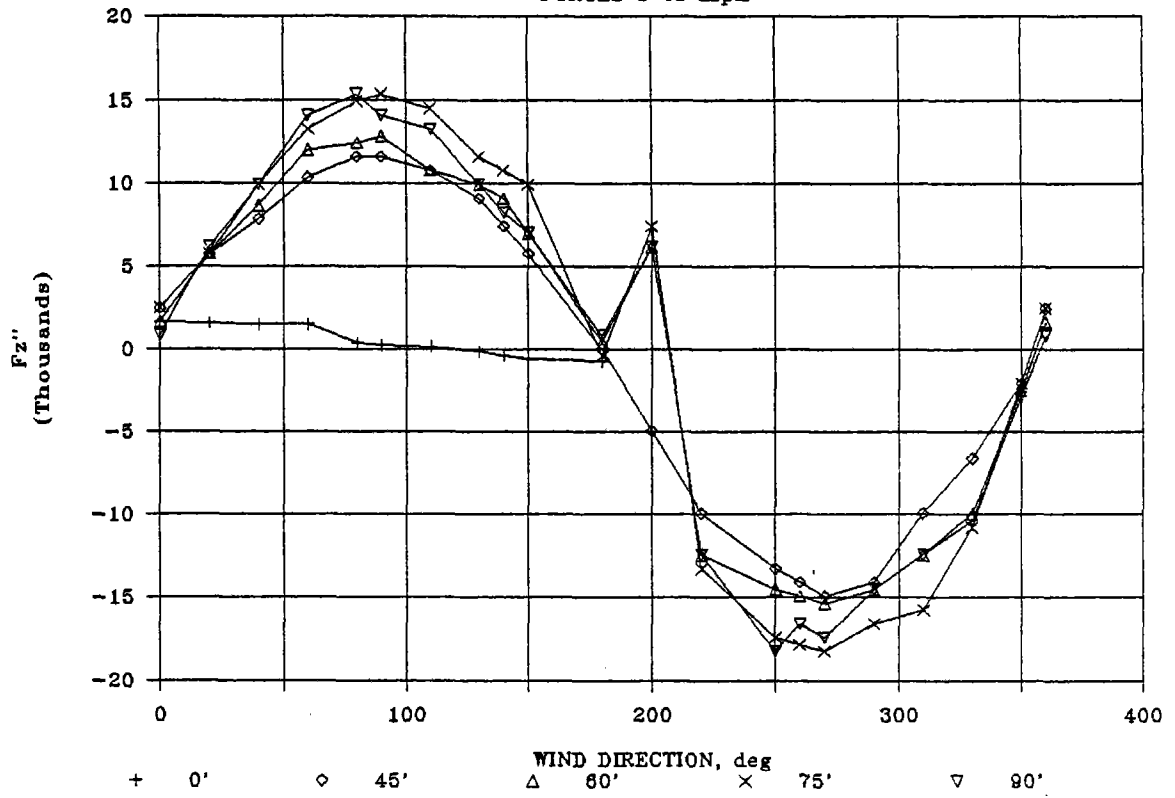
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FORCES @ 45 mph



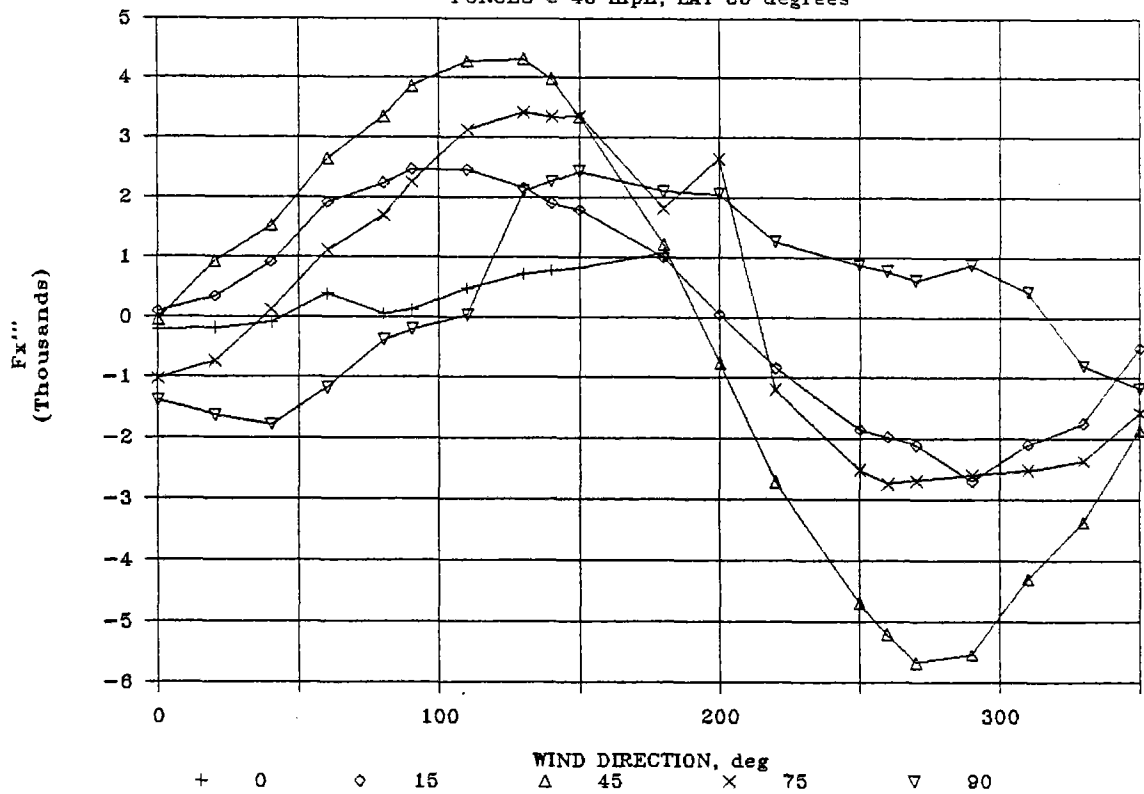
DIURNAL CONDITION

FORCES @ 45 mph



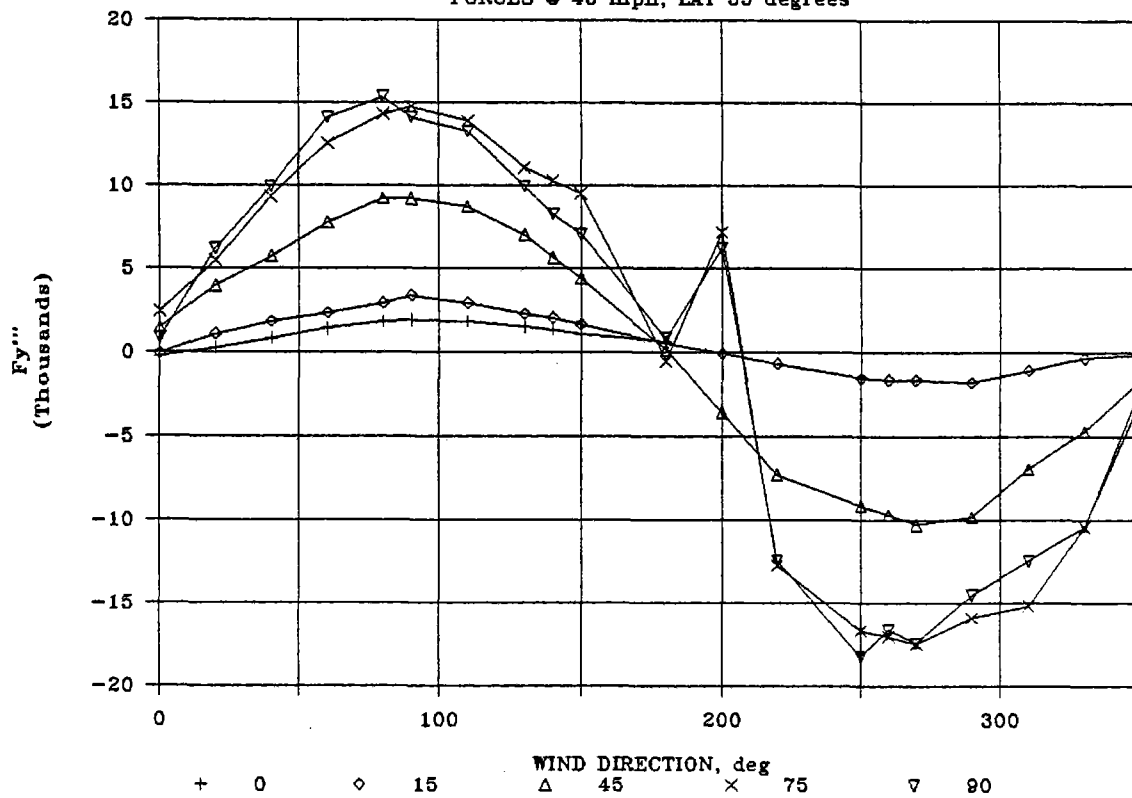
DIURNAL CONDITION

FORCES @ 45 mph, LAT 35 degrees



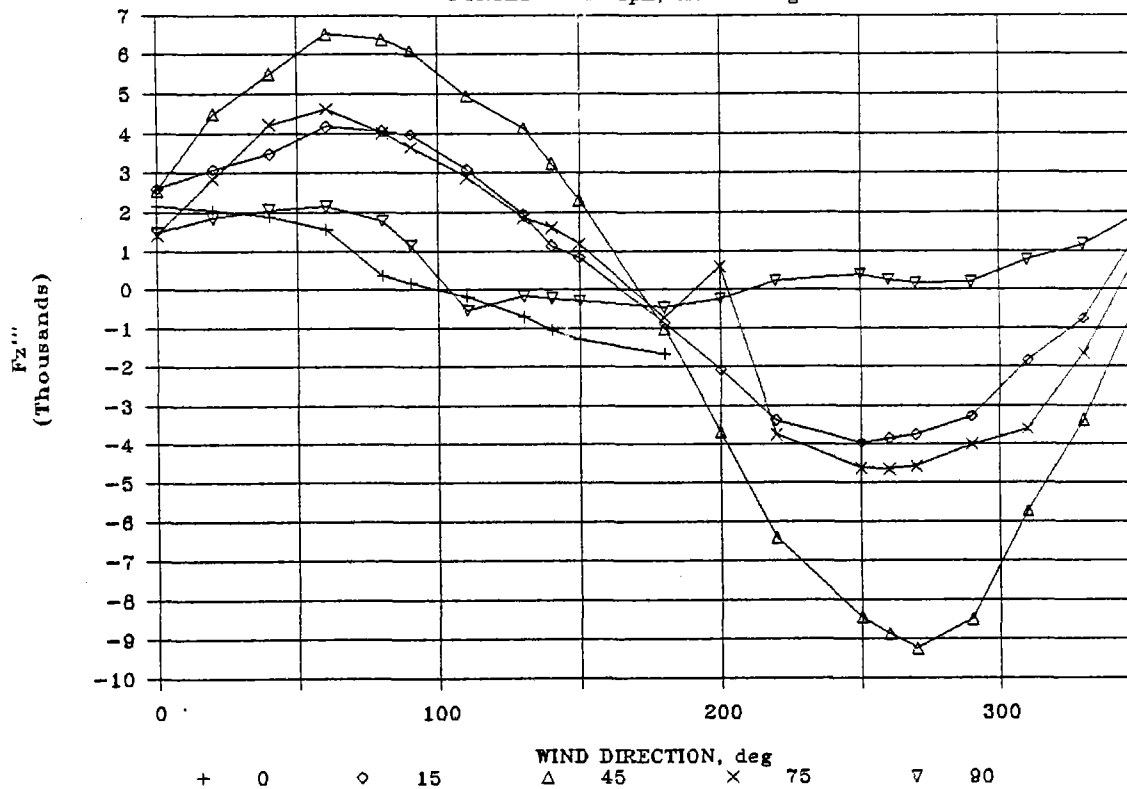
DIURNAL CONDITION

FORCES @ 45 mph, LAT 35 degrees



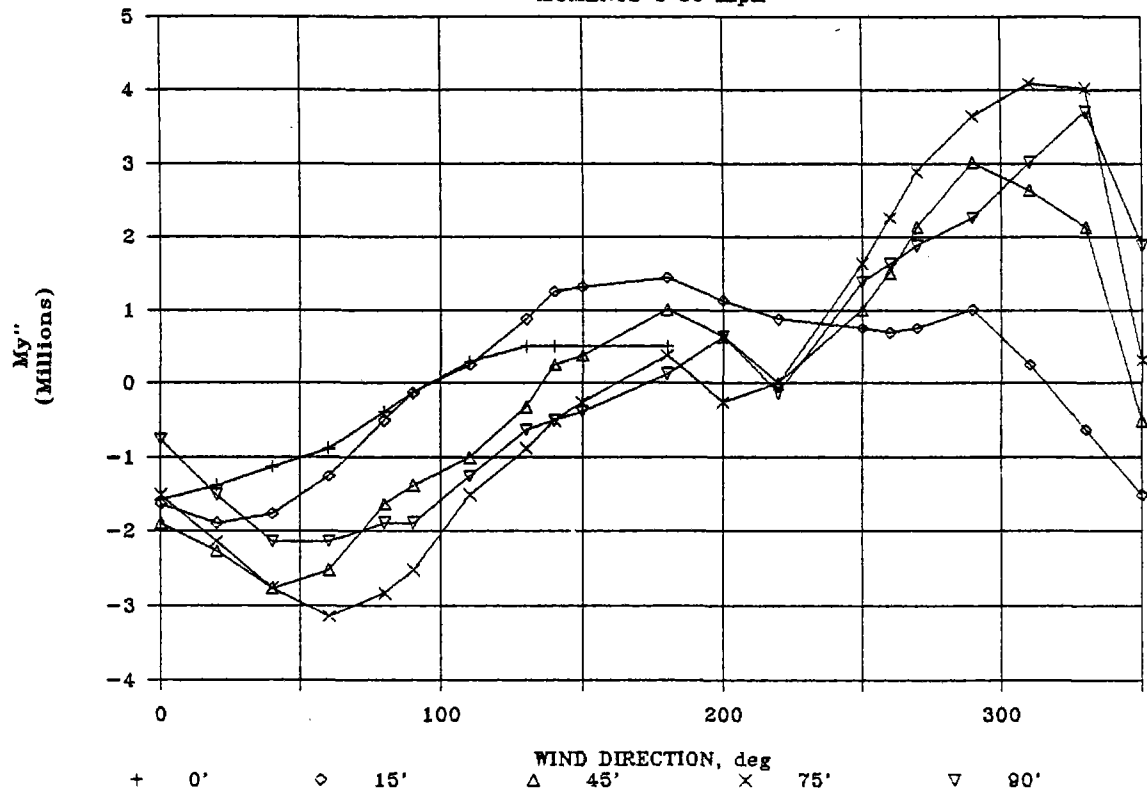
DIURNAL CONDITION

FORCES @ 45 mph, LAT 35 degrees



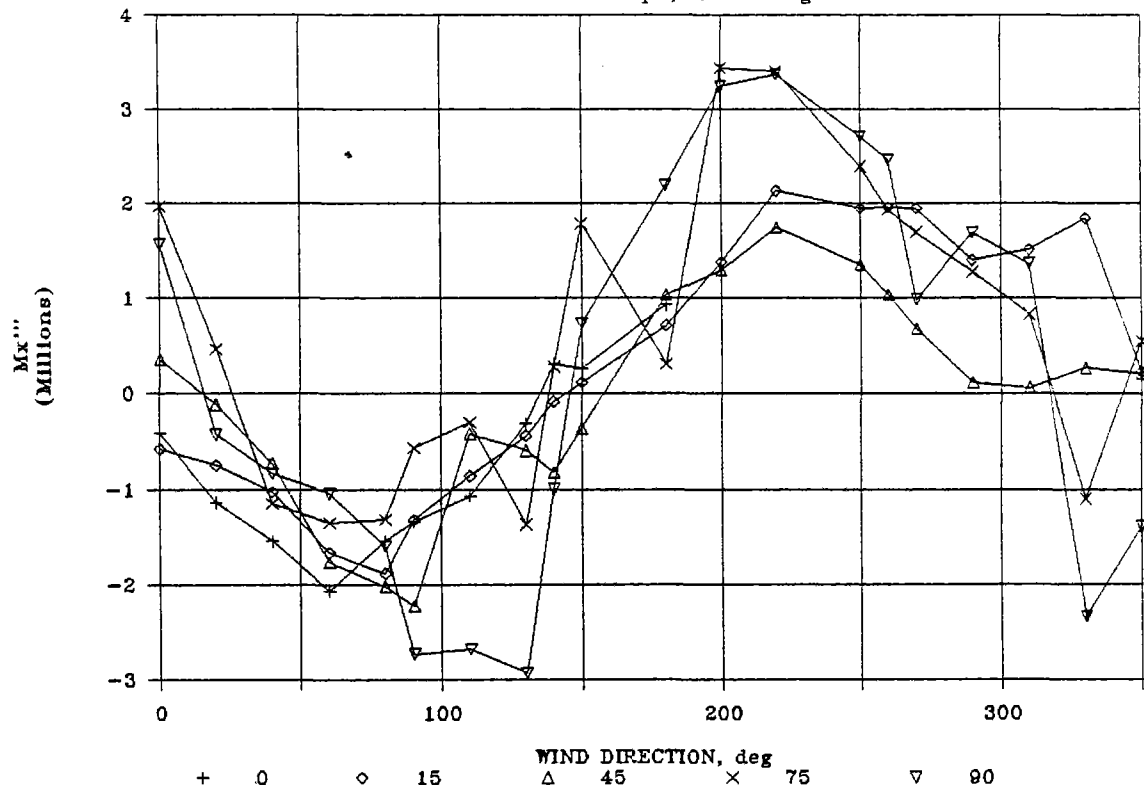
DIURNAL CONDITION

MOMENTS @ 80 mph



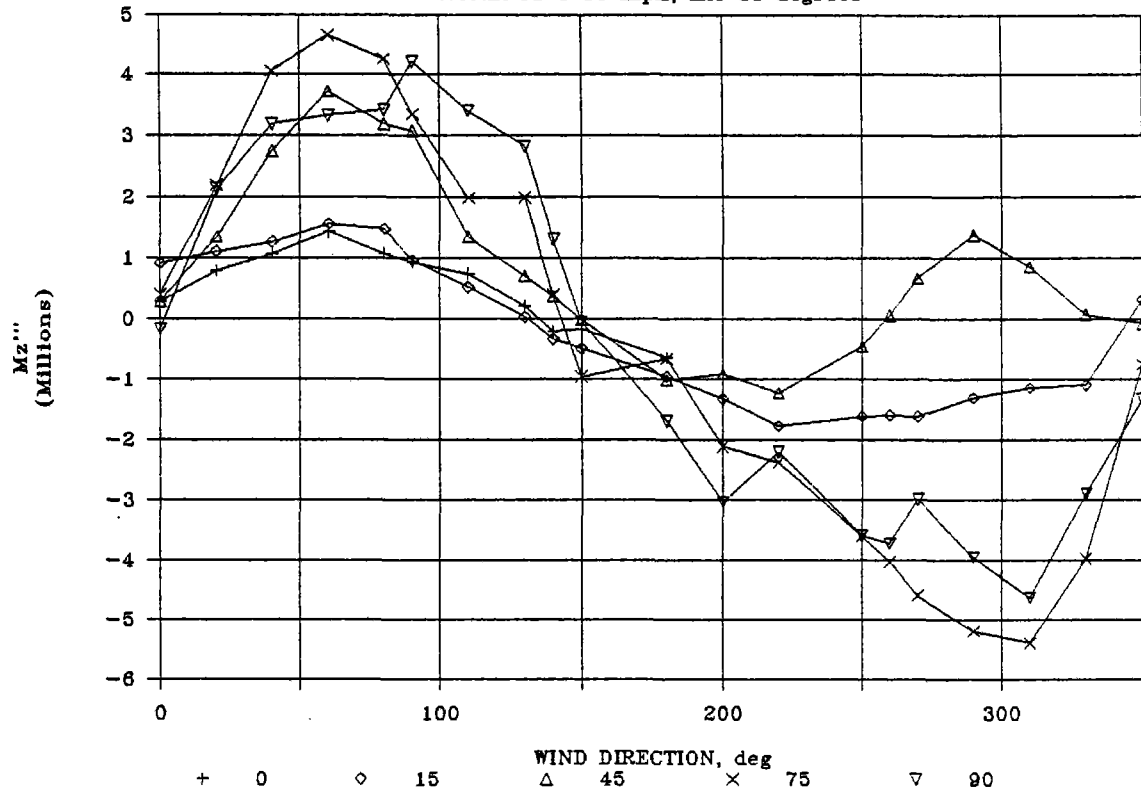
DIURNAL CONDITION

MOMENTS @ 80 mph, LAT 35 degrees



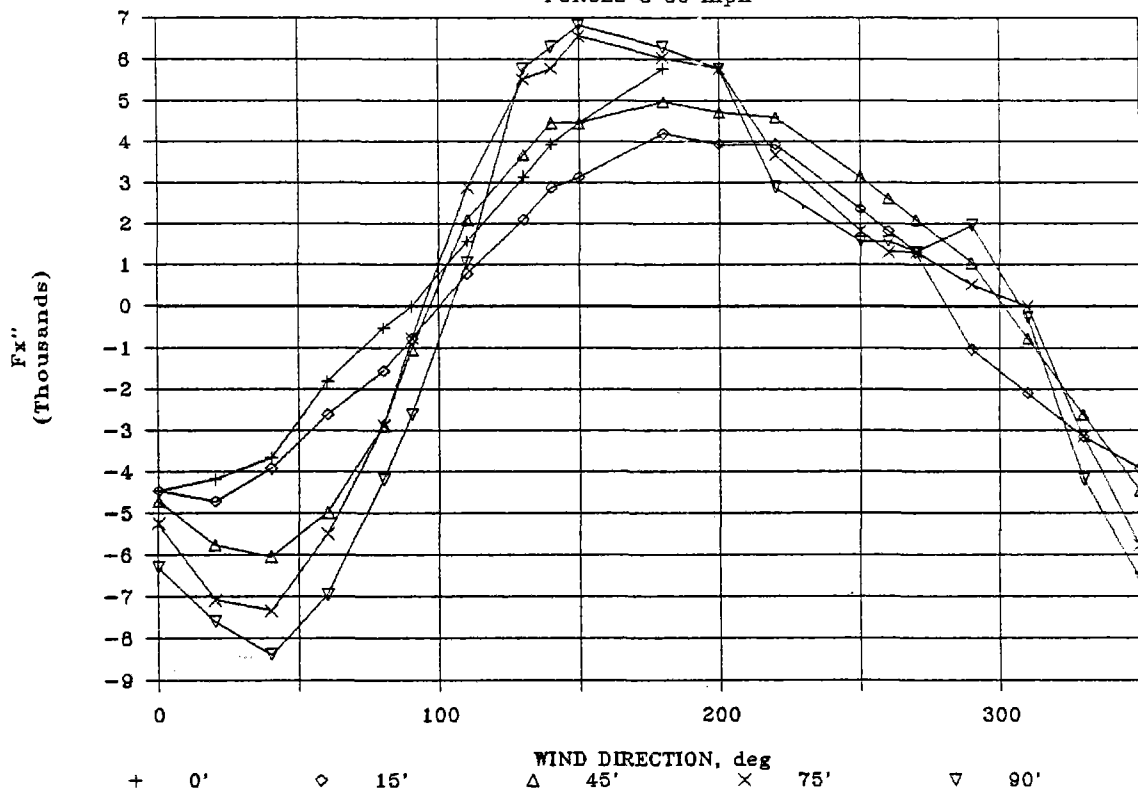
DIURNAL CONDITION

MOMENTS @ 80 mph, LAT 35 degrees



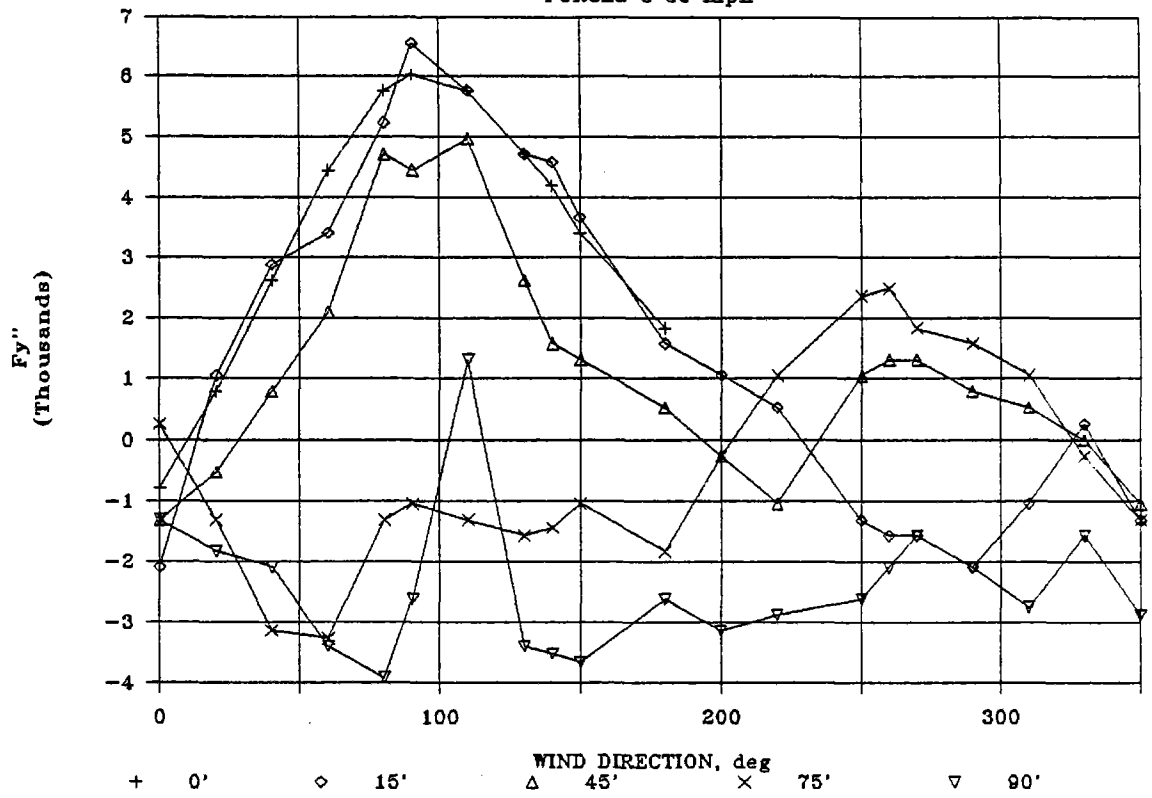
DIURNAL CONDITION

FORCES @ 80 mph



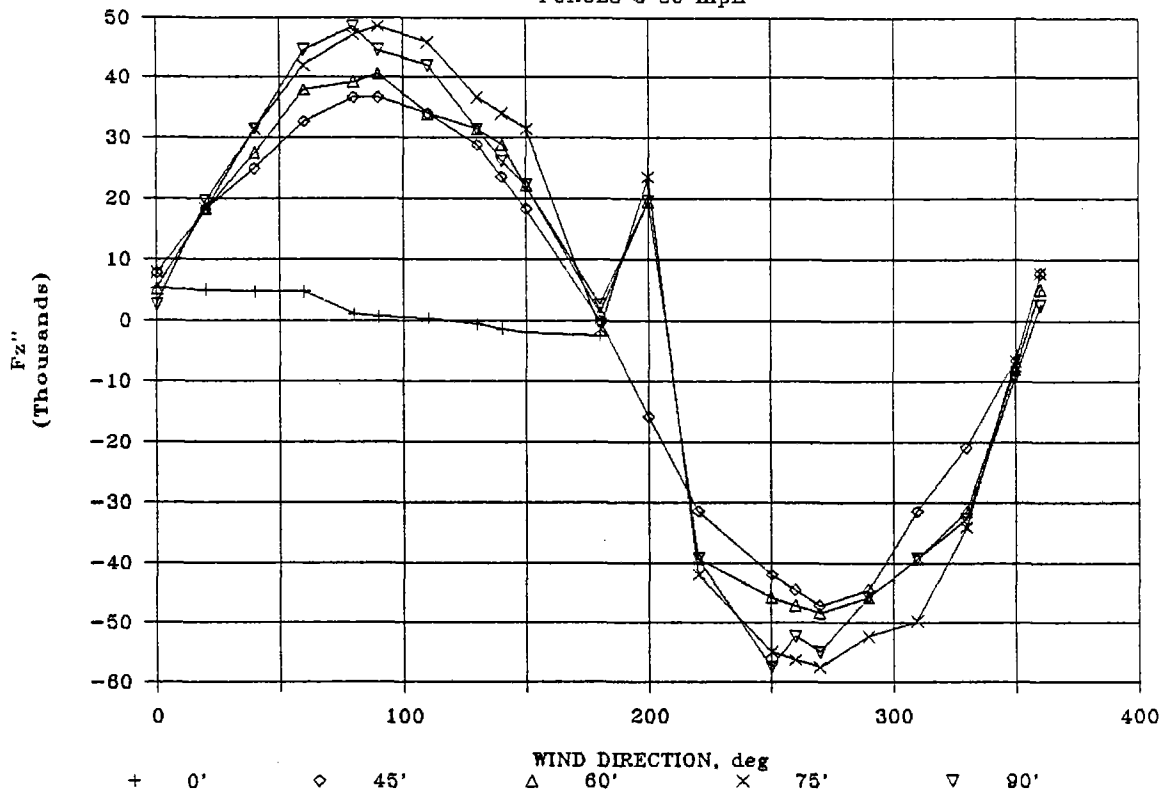
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FORCES @ 80 mph



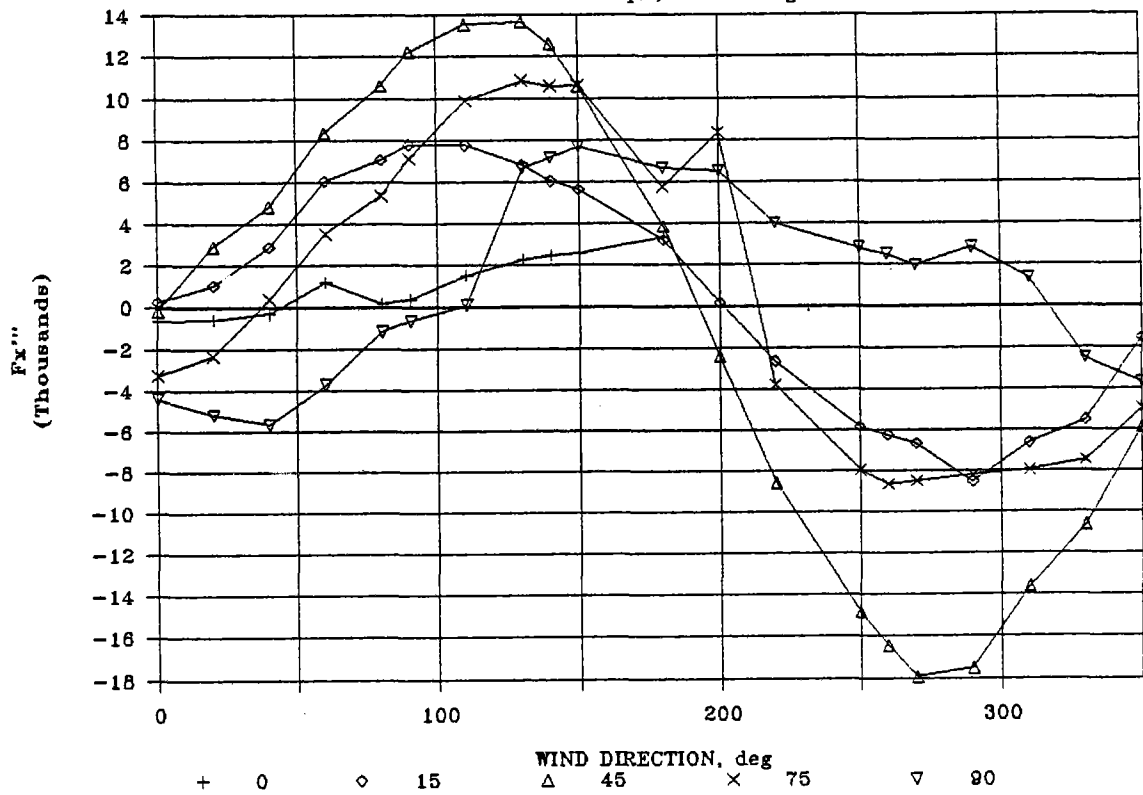
DIURNAL CONDITION

FORCES @ 80 mph



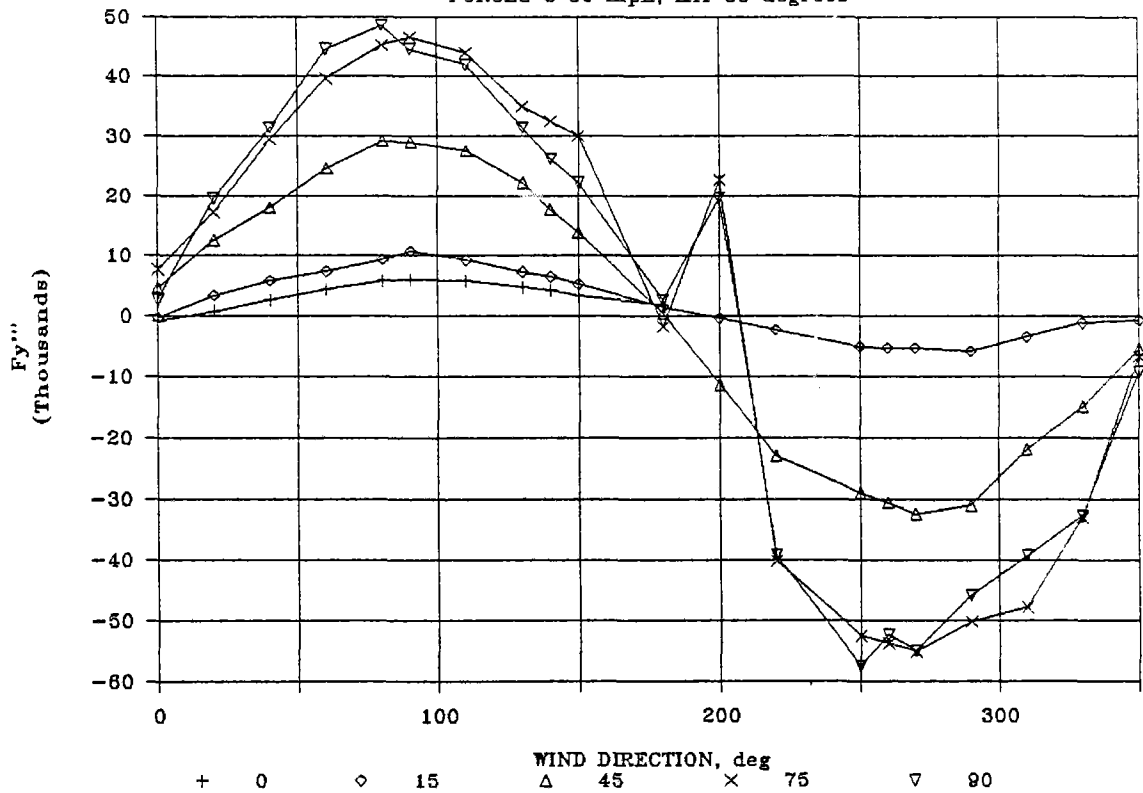
DIURNAL CONDITION

FORCES @ 80 mph, LAT 35 degrees



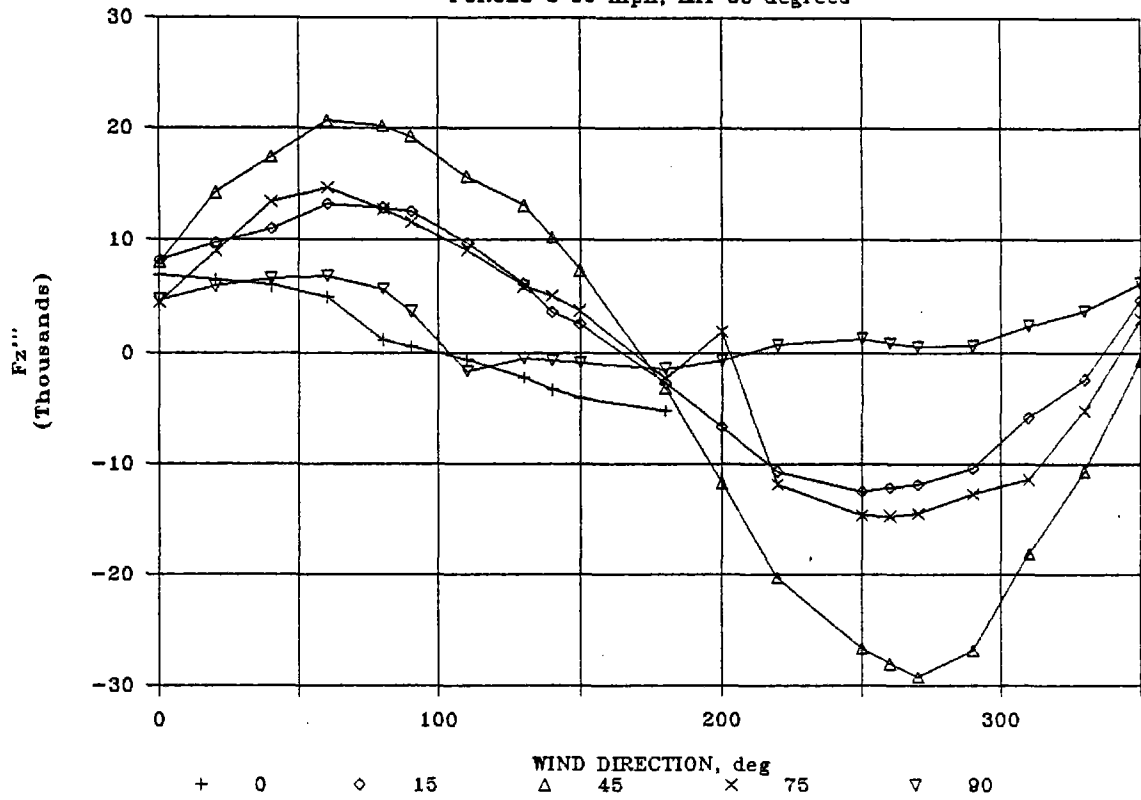
DIURNAL CONDITION

FORCES @ 80 mph, LAT 35 degrees



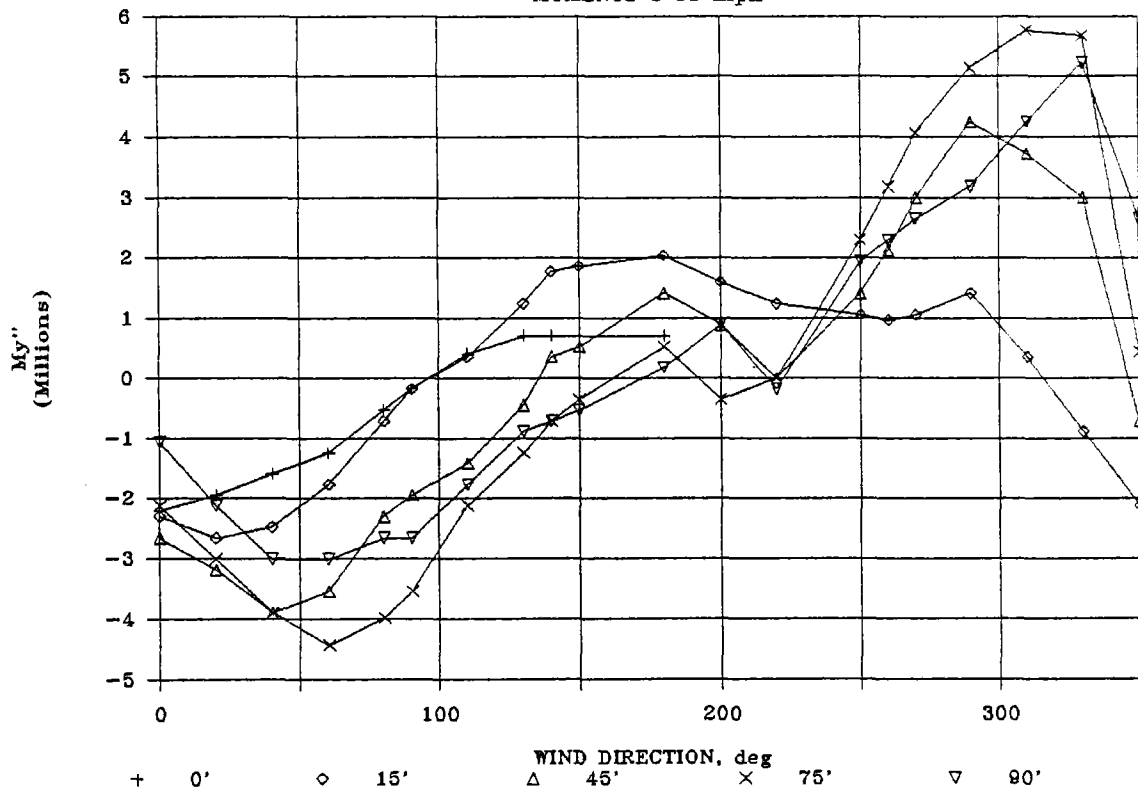
DIURNAL CONDITION

FORCES @ 80 mph, LAT 35 degrees



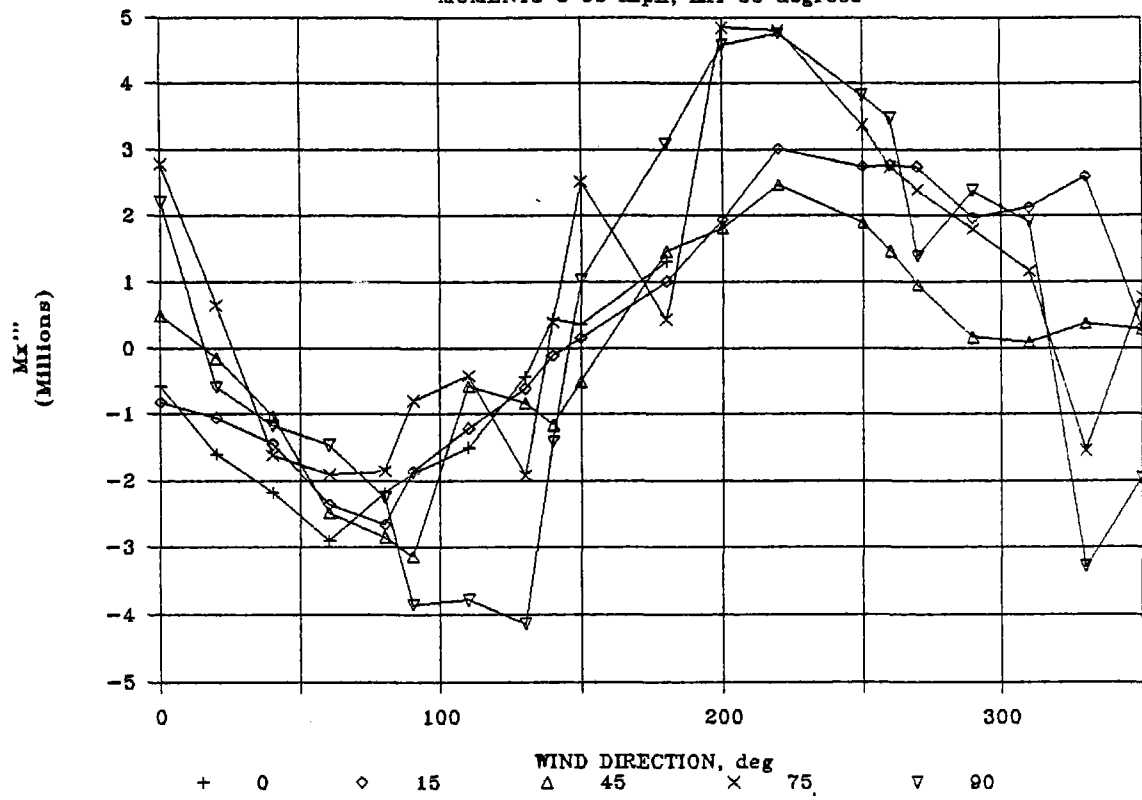
DIURNAL CONDITION

MOMENTS @ 95 mph



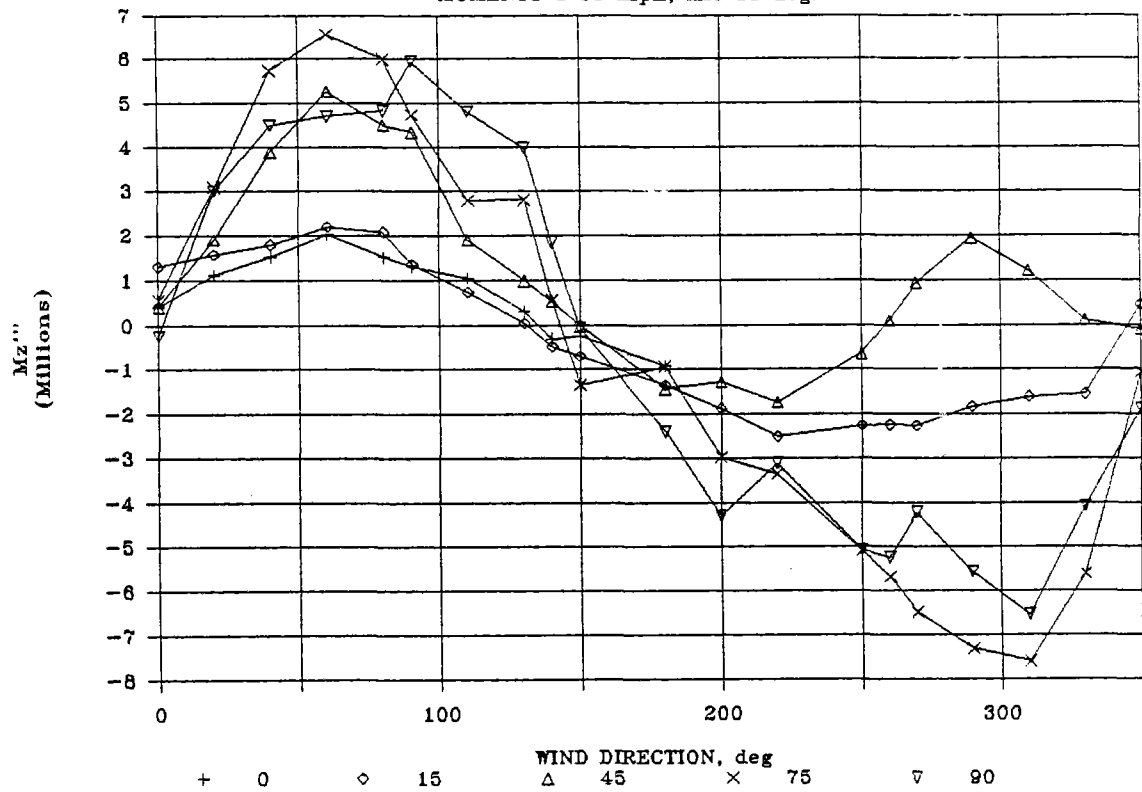
DIURNAL CONDITION

MOMENTS @ 95 mph, LAT 35 degrees



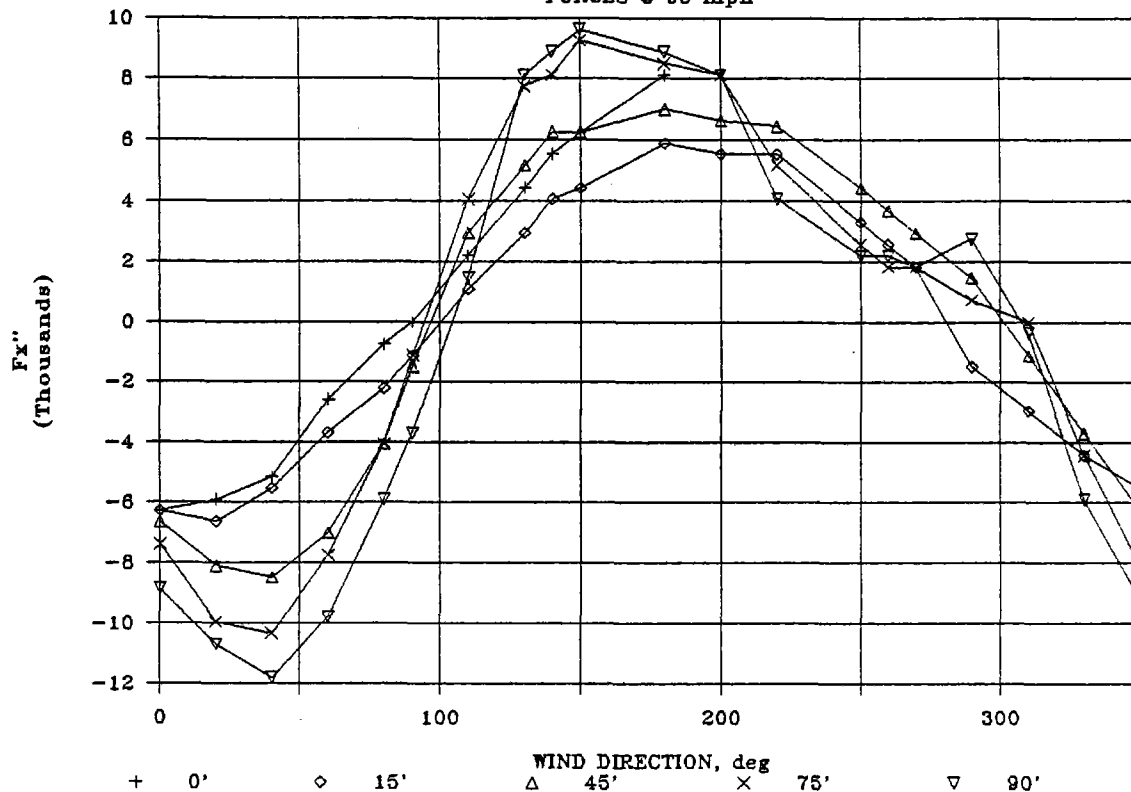
DIURNAL CONDITION

MOMENTS @ 95 mph, LAT 35 degrees



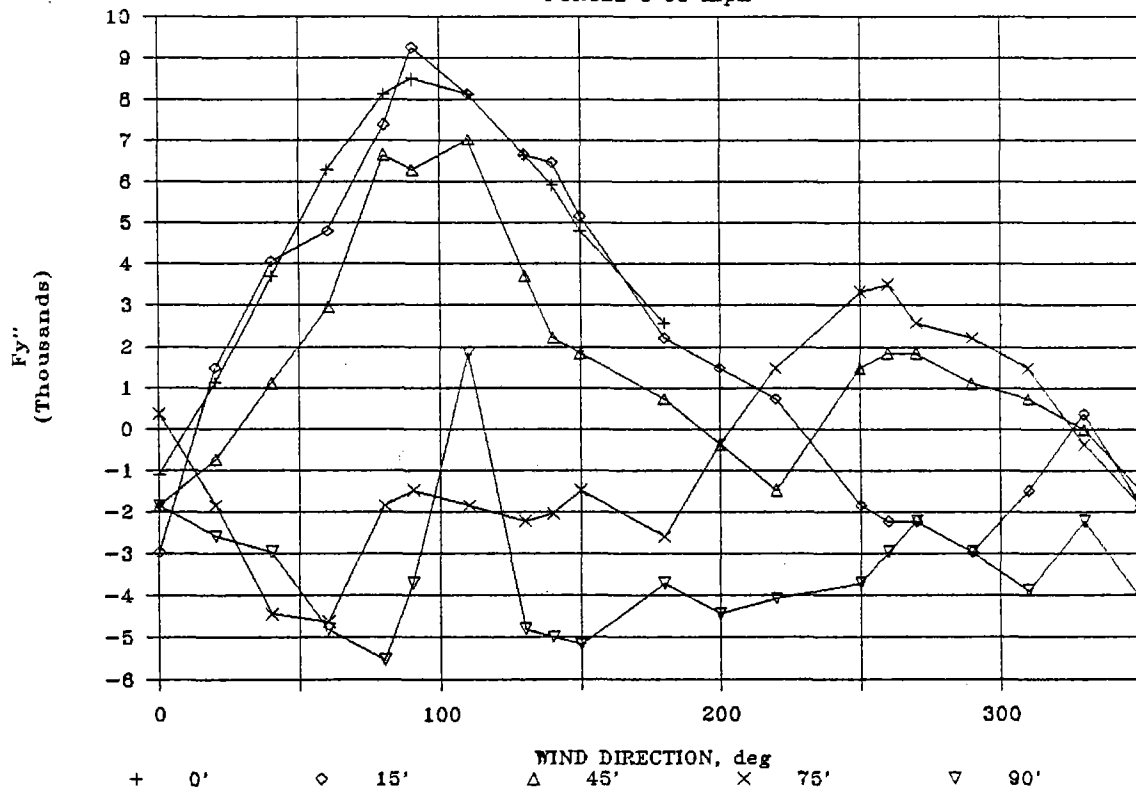
DIURNAL CONDITION

FORCES @ 95 mph



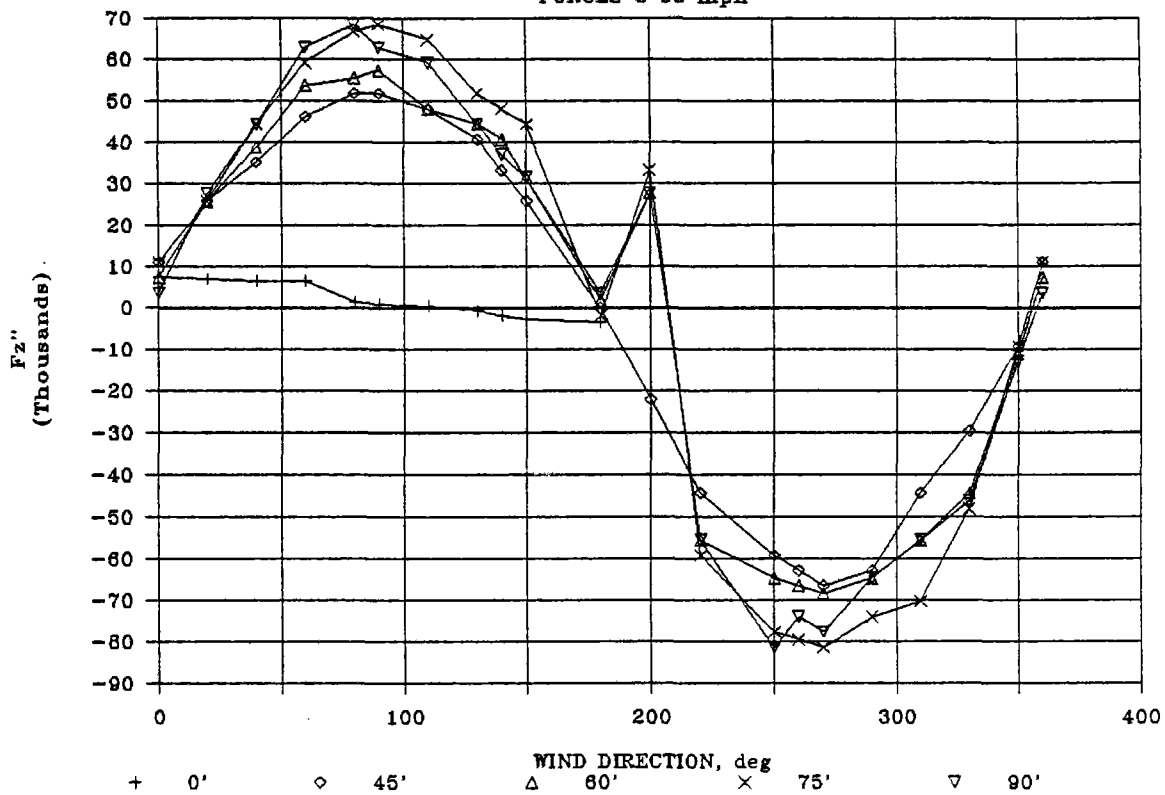
DIURNAL CONDITION

FORCES @ 95 mph



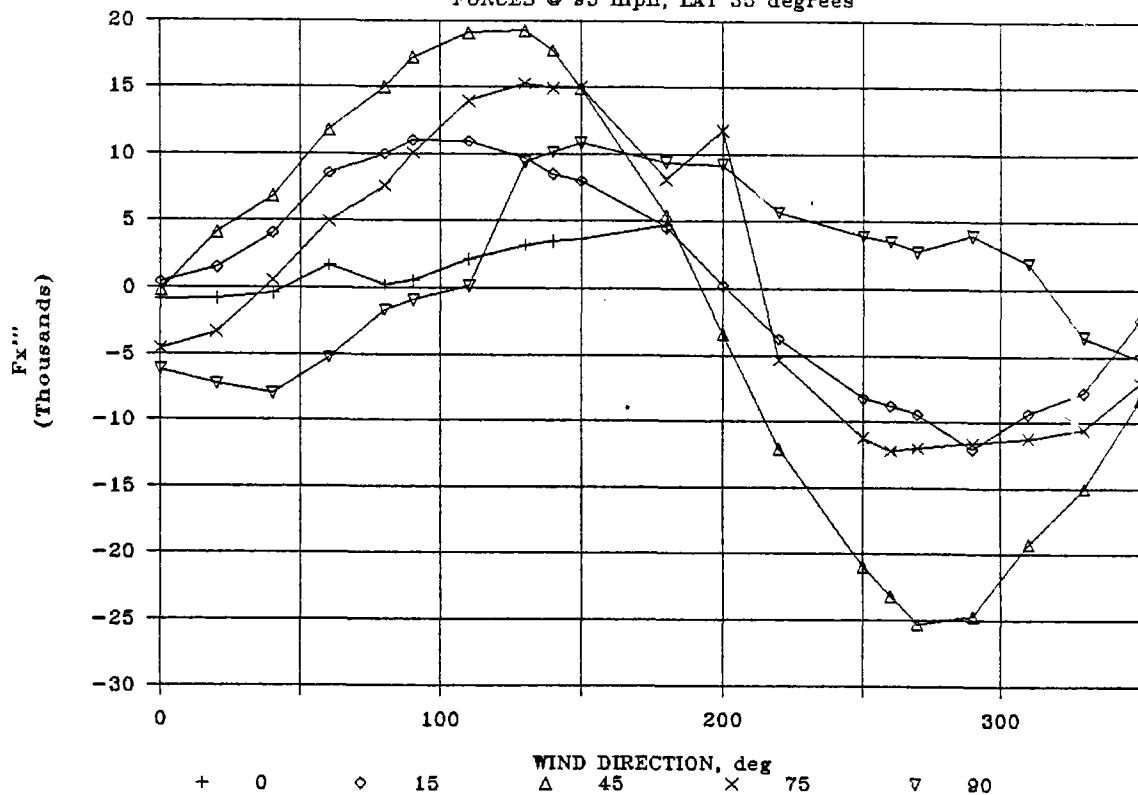
DIURNAL CONDITION

FORCES @ 95 mph



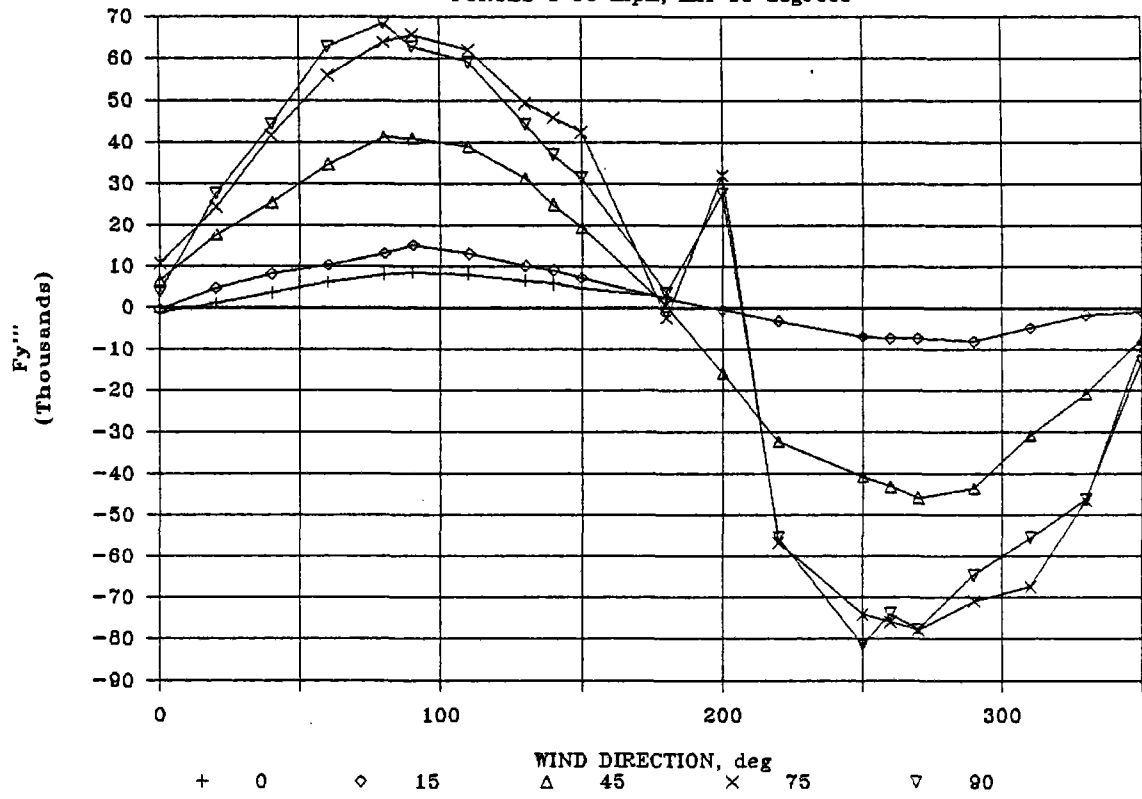
DIURNAL CONDITION

FORCES @ 95 mph, LAT 35 degrees



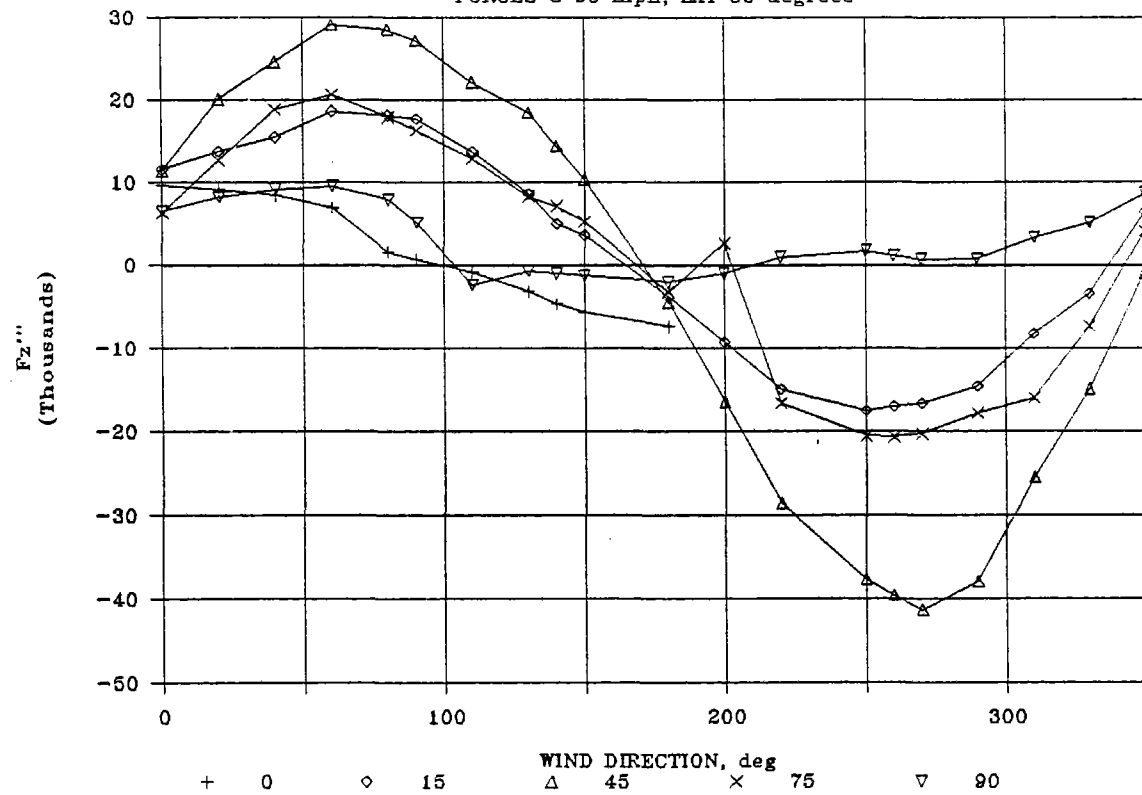
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FORCES @ 95 mph, LAT 35 degrees



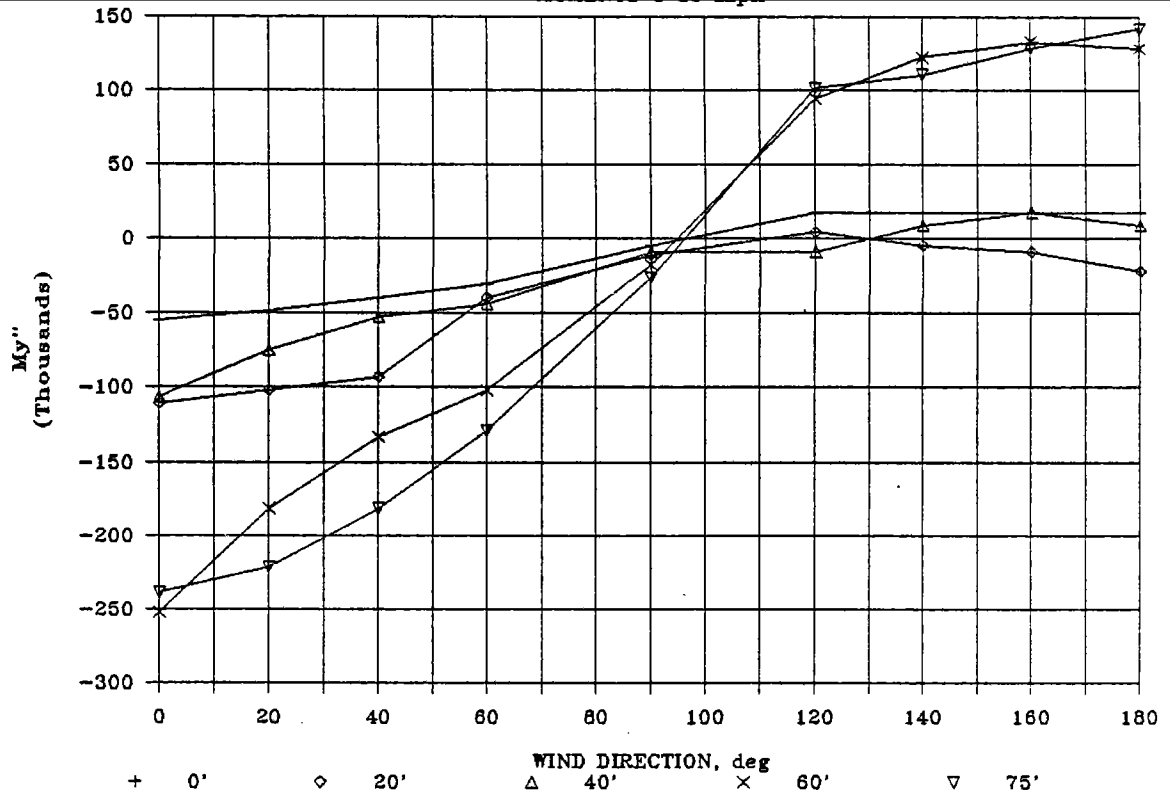
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FORCES @ 95 mph, LAT 35 degrees



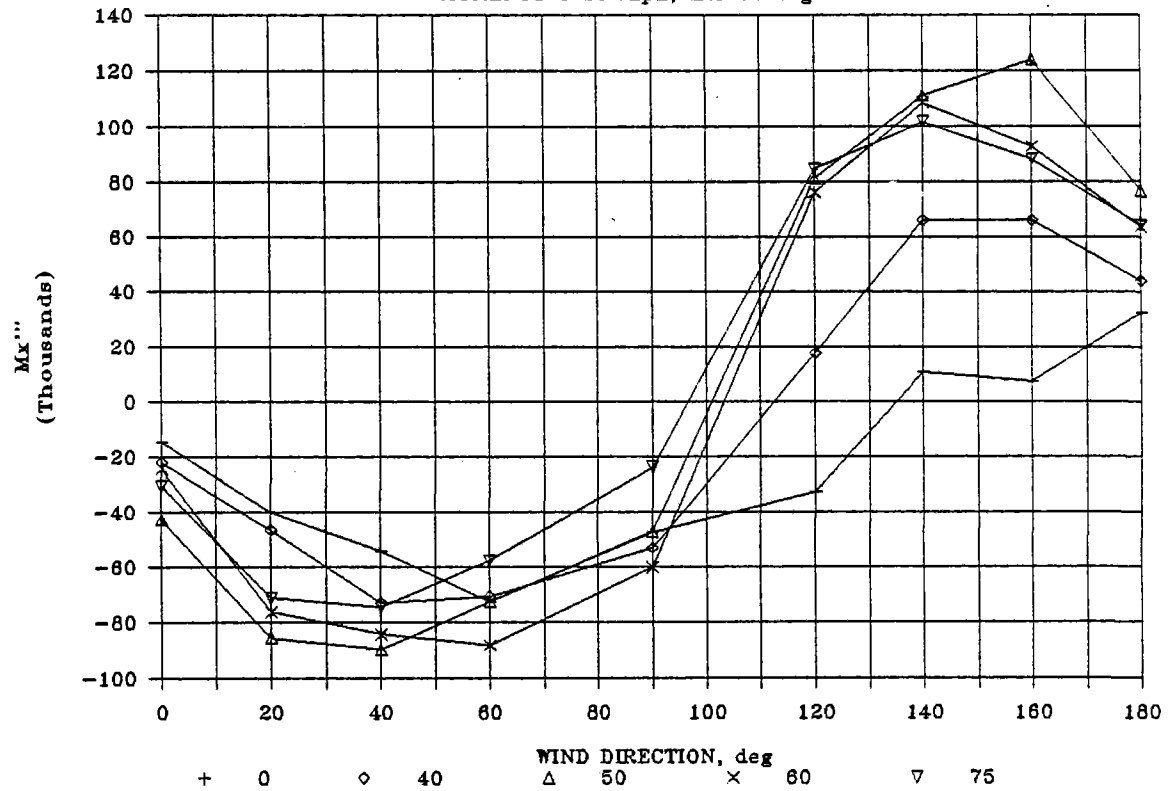
DECLINATION CONDITION

MOMENTS @ 15 mph



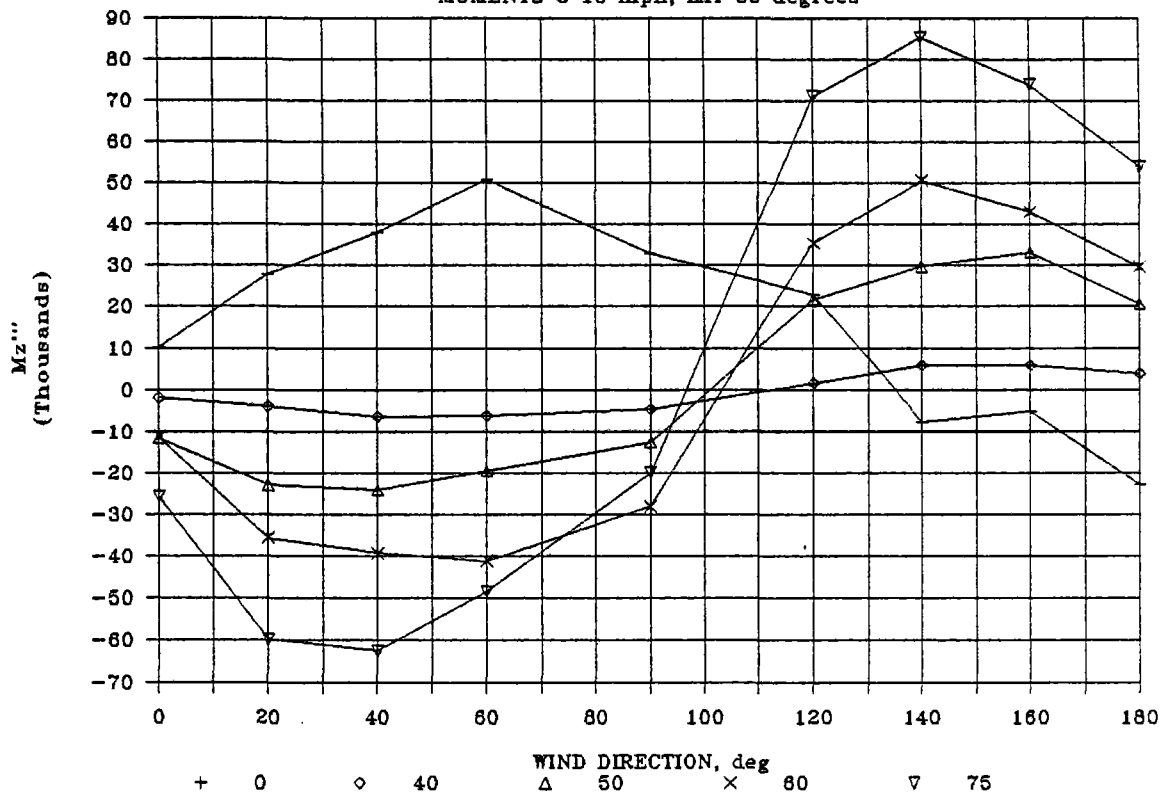
DECLINATION CONDITION

MOMENTS @ 15 mph, LAT 35 degrees



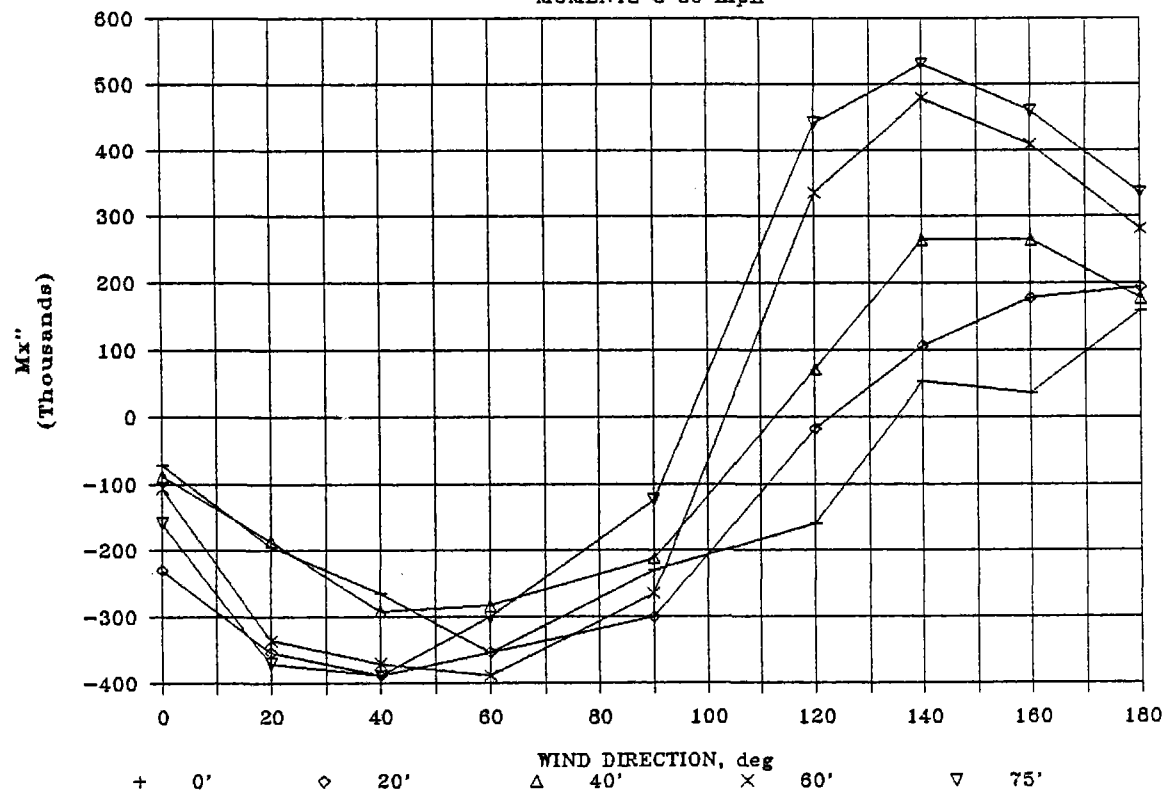
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MOMENTS @ 15 mph, LAT 35 degrees



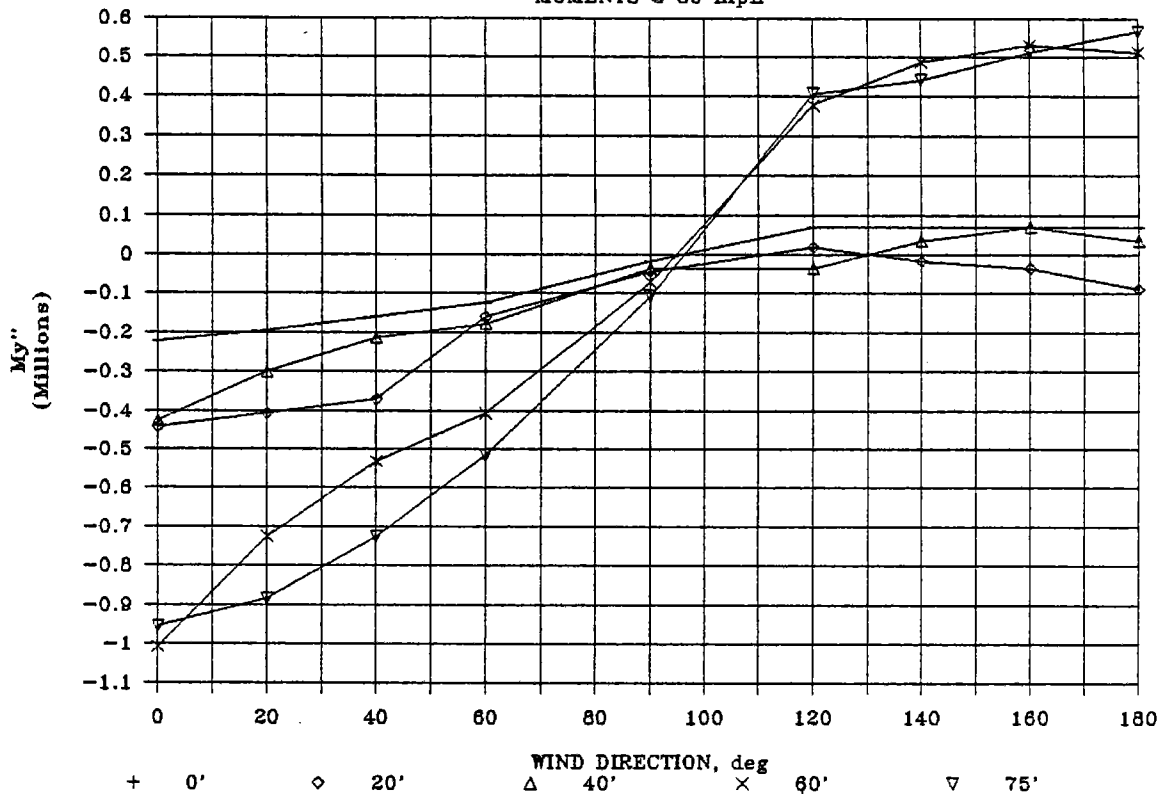
DECLINATION CONDITION

MOMENTS @ 30 mph



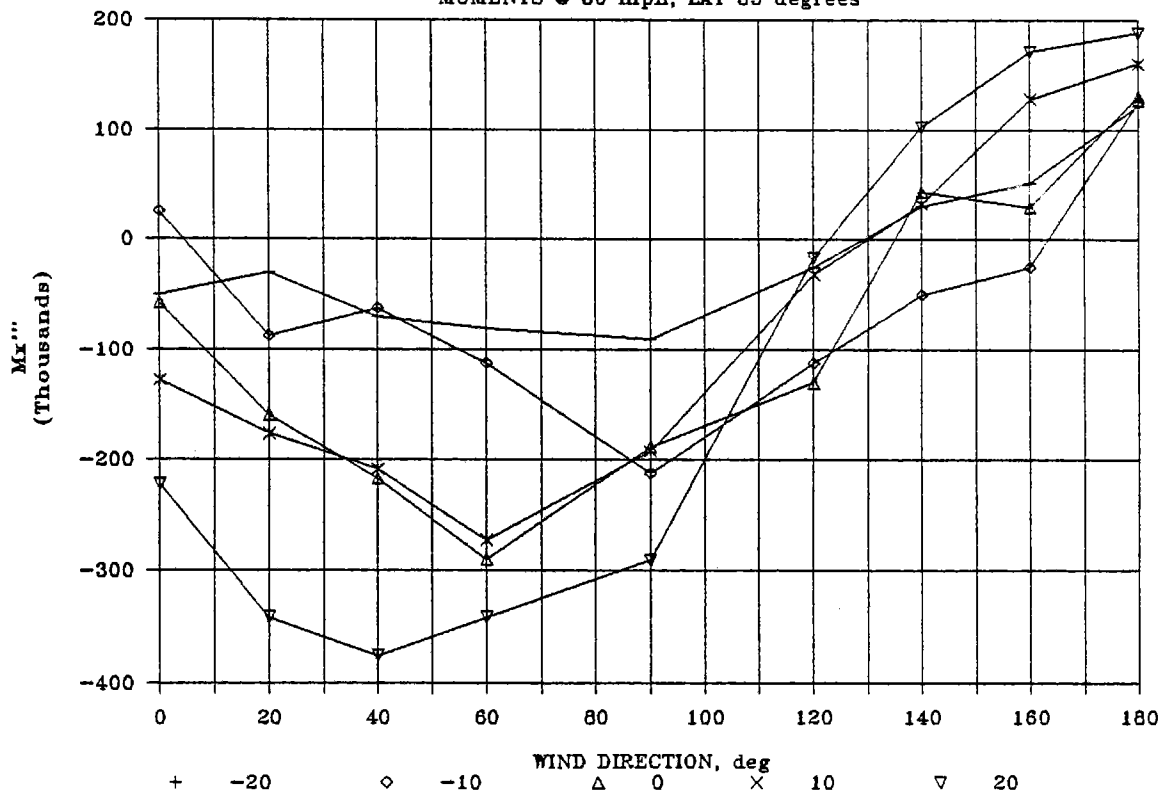
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MOMENTS @ 30 mph



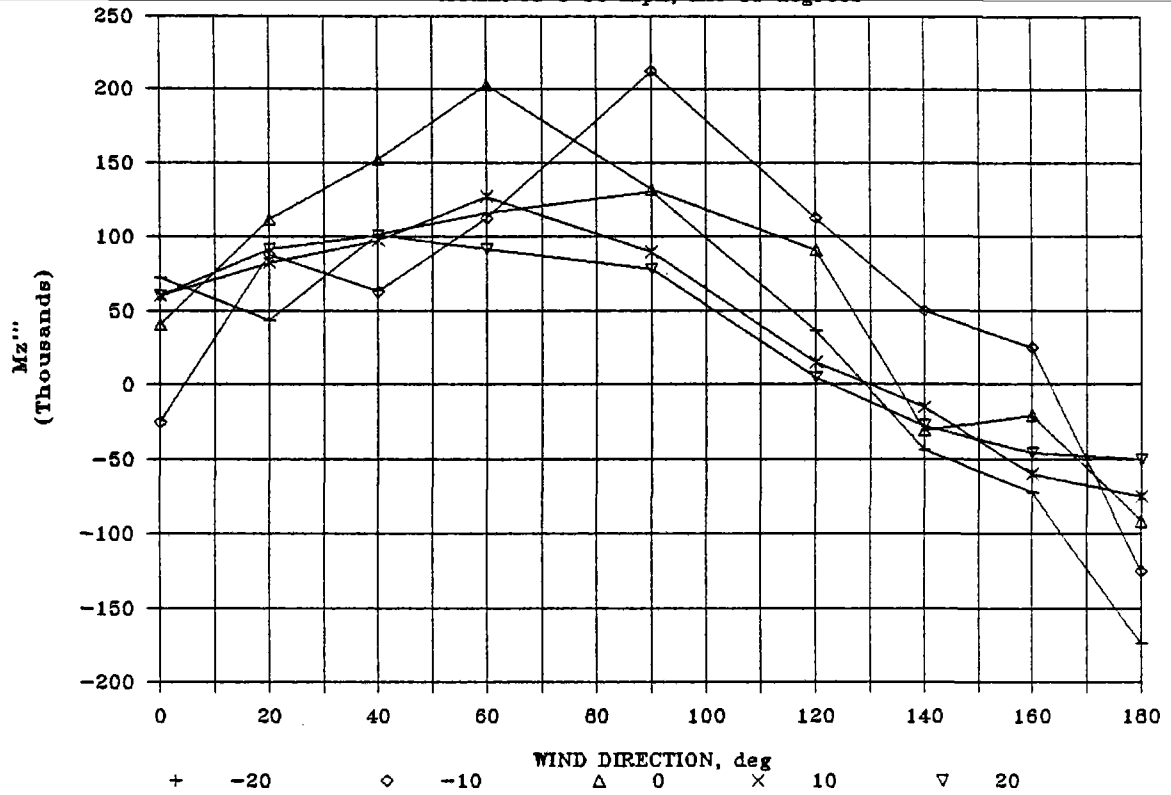
DECLINATION CONDITION

MOMENTS @ 30 mph, LAT 35 degrees



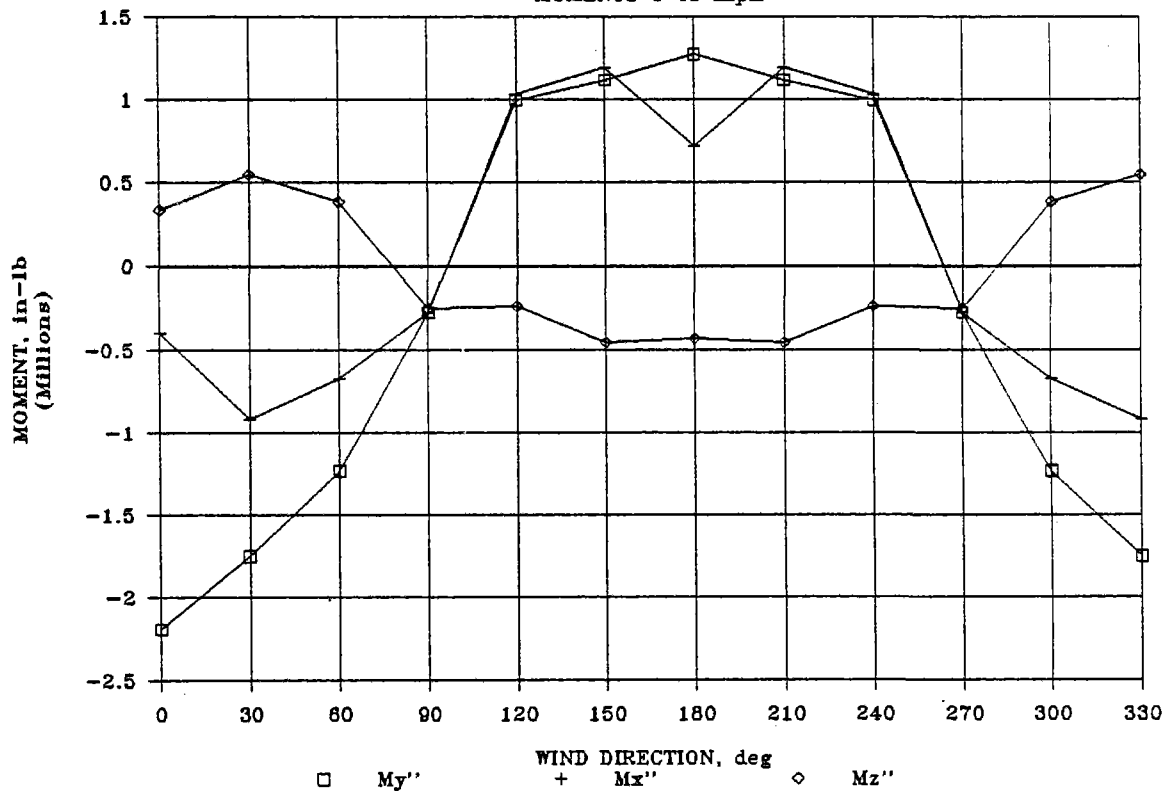
DECLINATION CONDITION

MOMENTS @ 30 mph, LAT 35 degrees



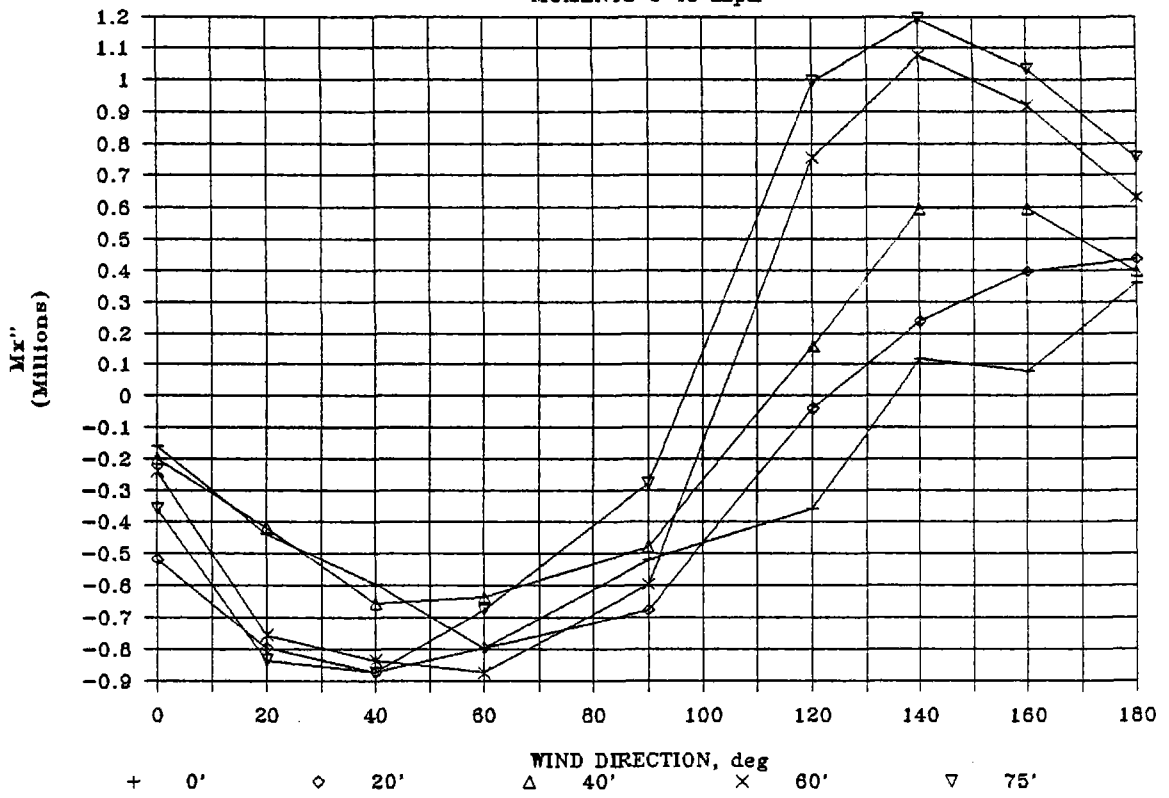
DECLINATION CONDITION

MOMENTS @ 45 mph



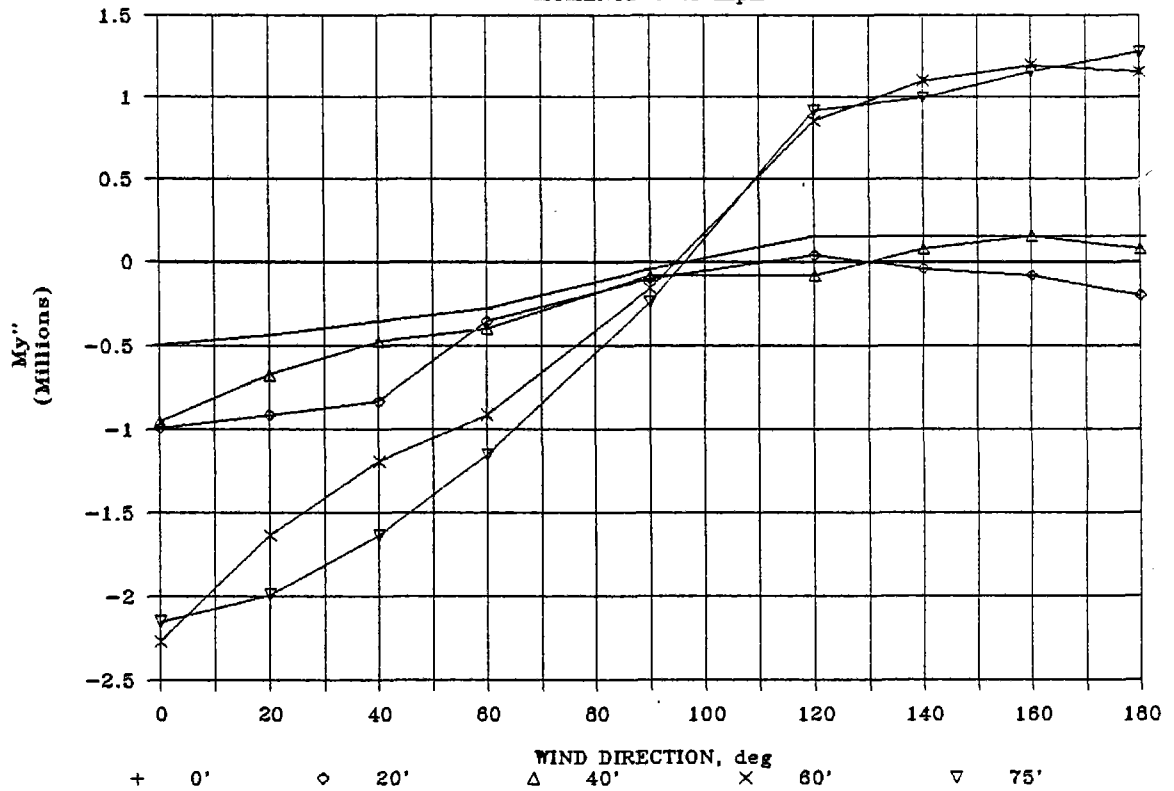
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MOMENTS @ 45 mph



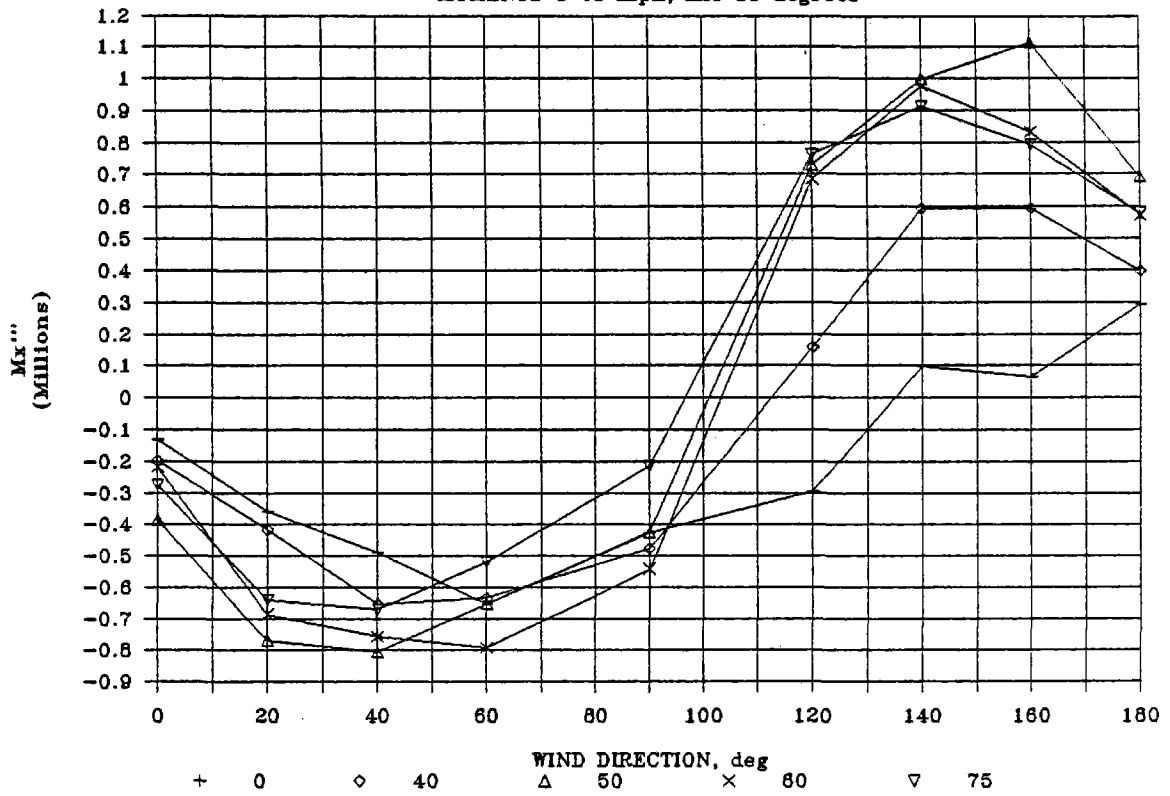
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MOMENTS @ 45 mph



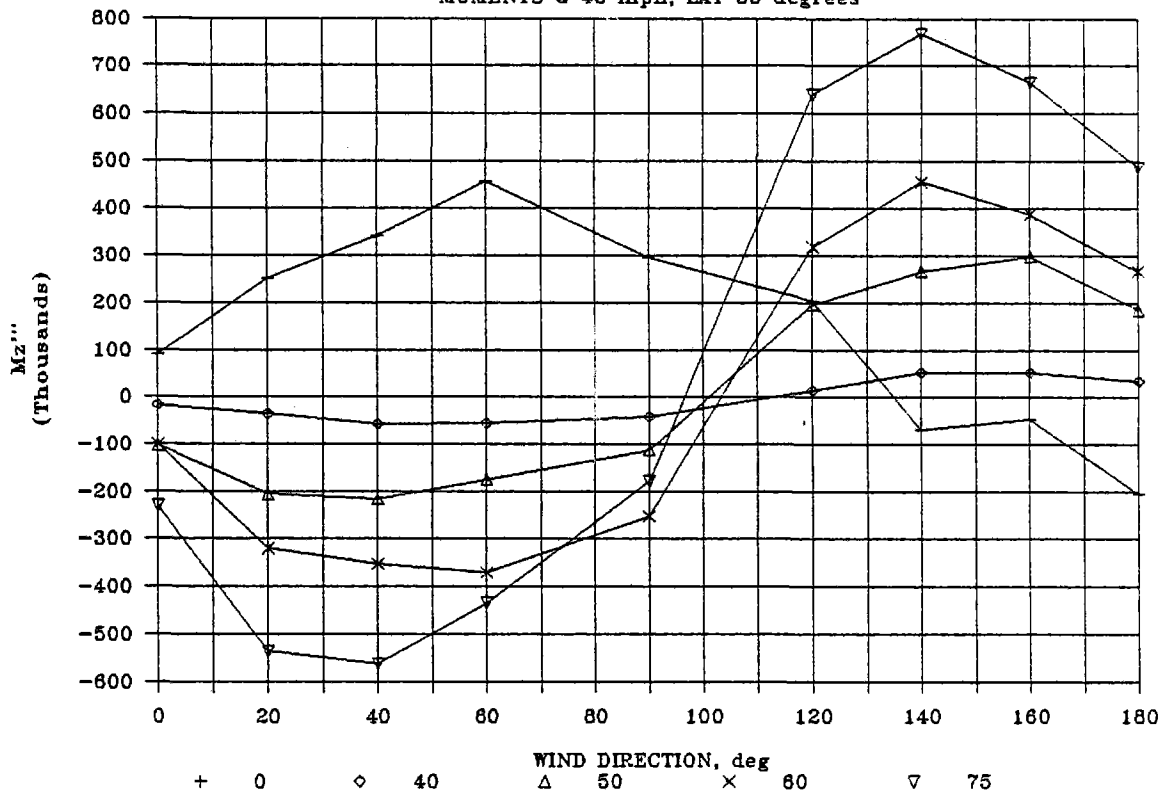
DECLINATION CONDITION

MOMENTS @ 45 mph, LAT 35 degrees



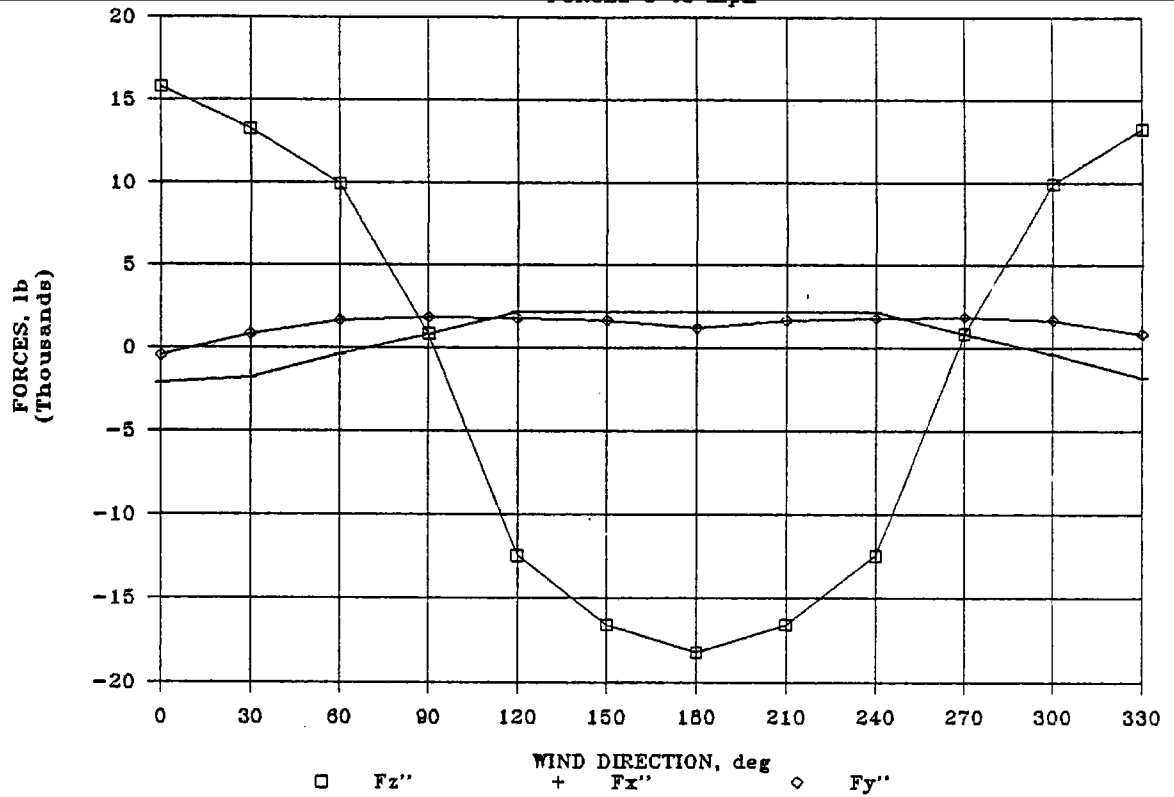
DECLINATION CONDITION

MOMENTS @ 45 mph, LAT 35 degrees



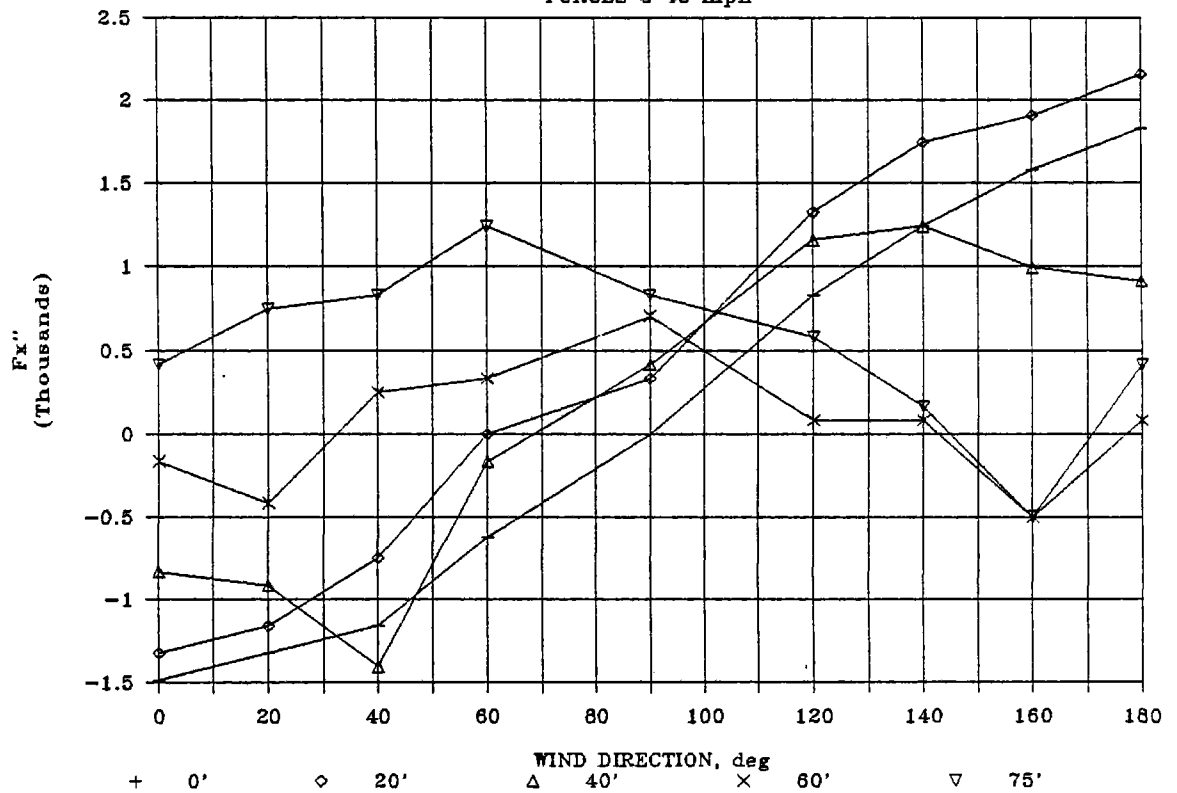
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FORCES @ 45 mph



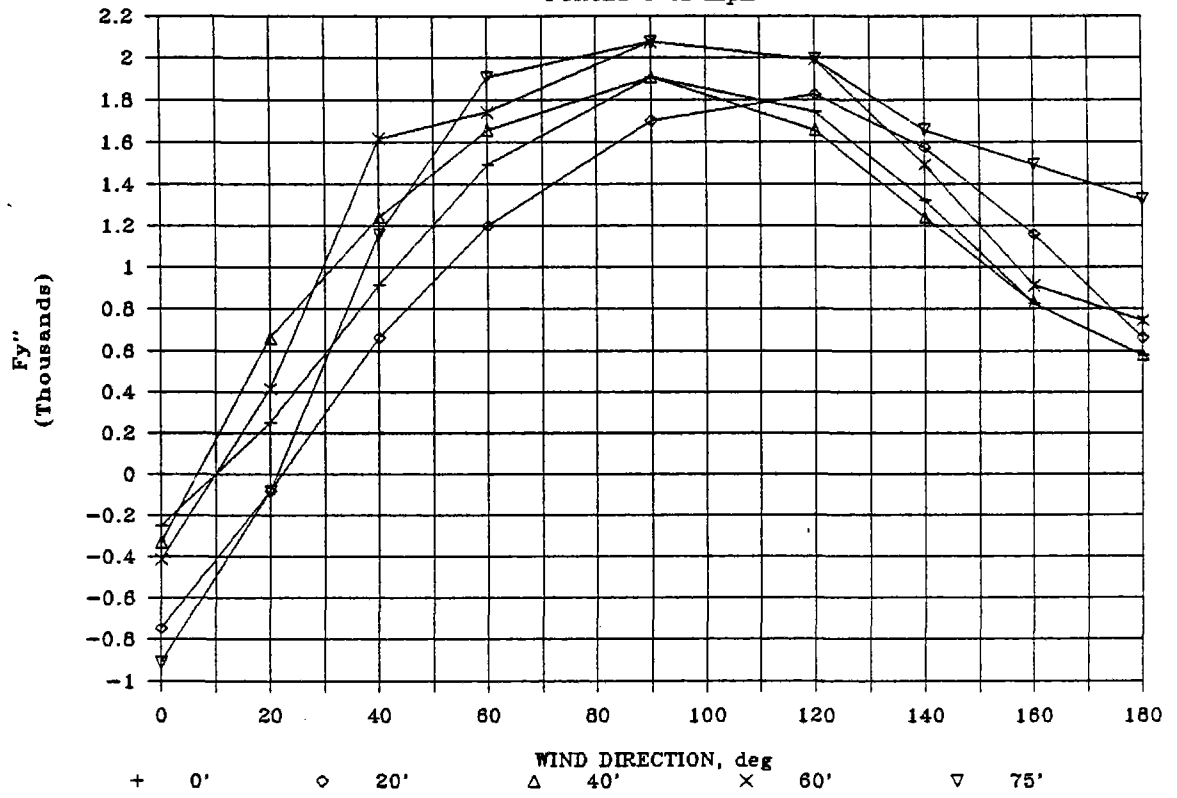
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FORCES @ 45 mph



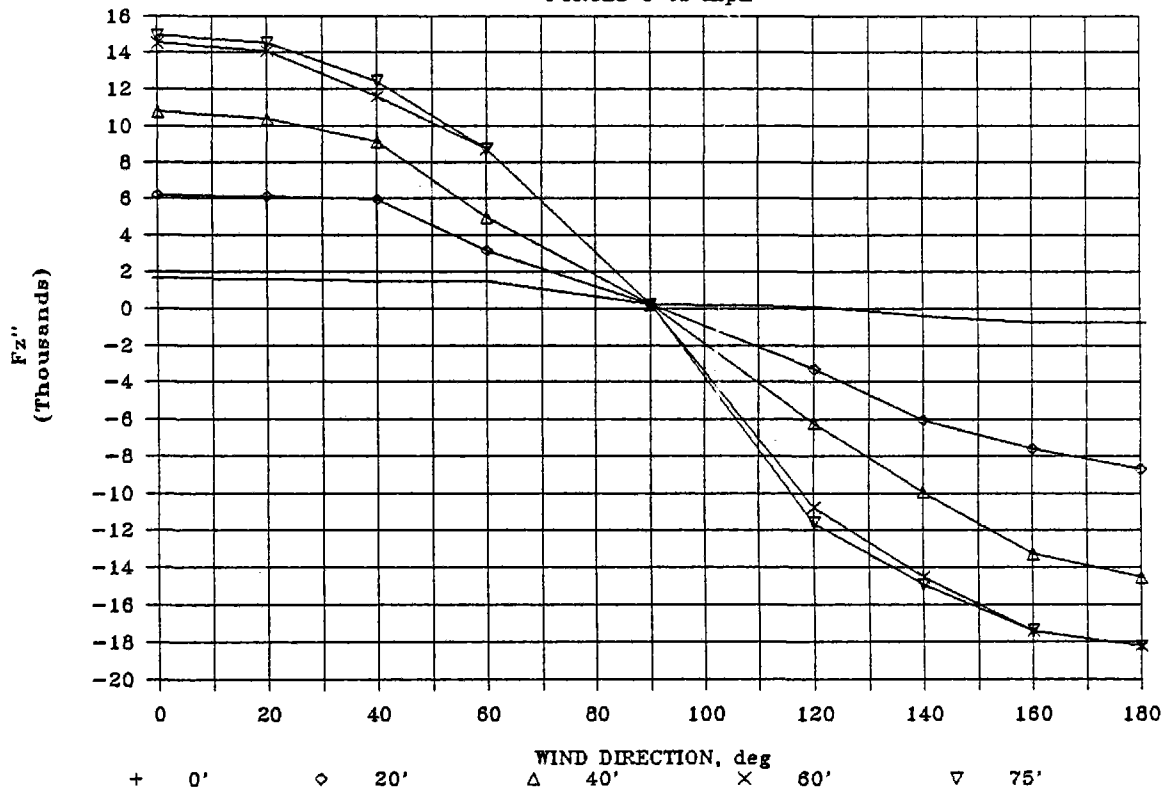
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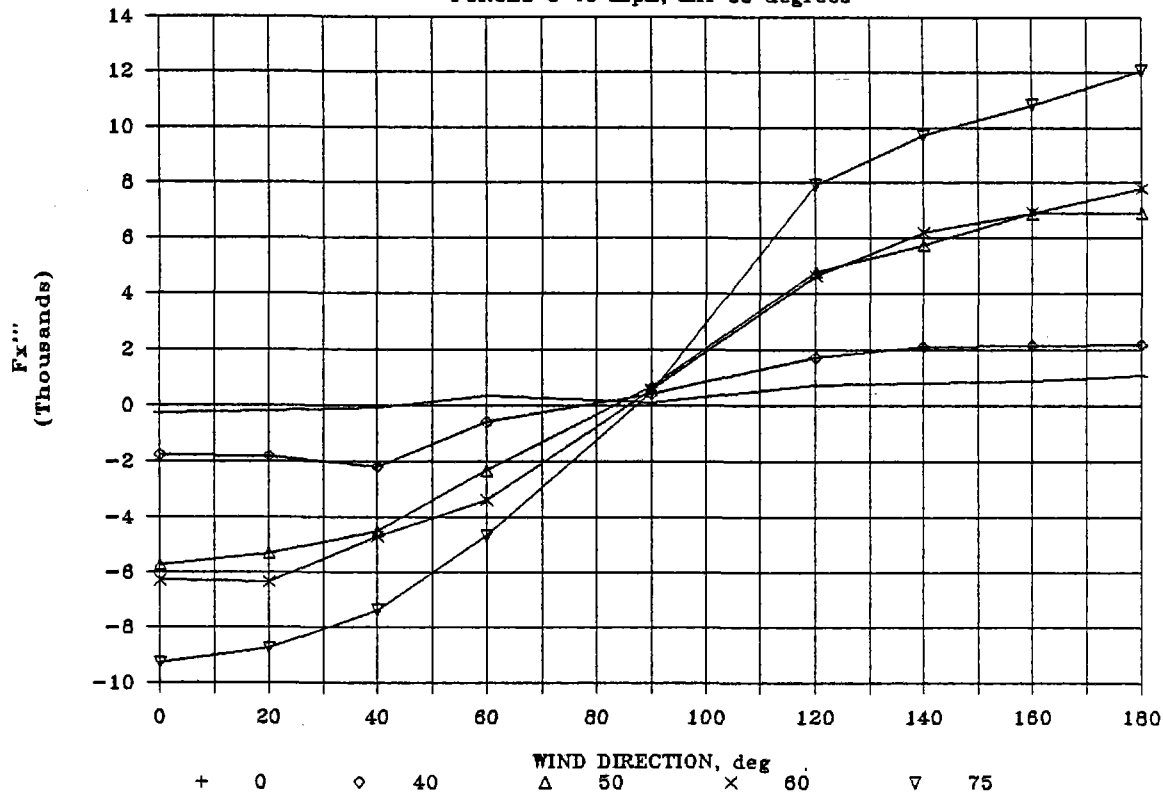
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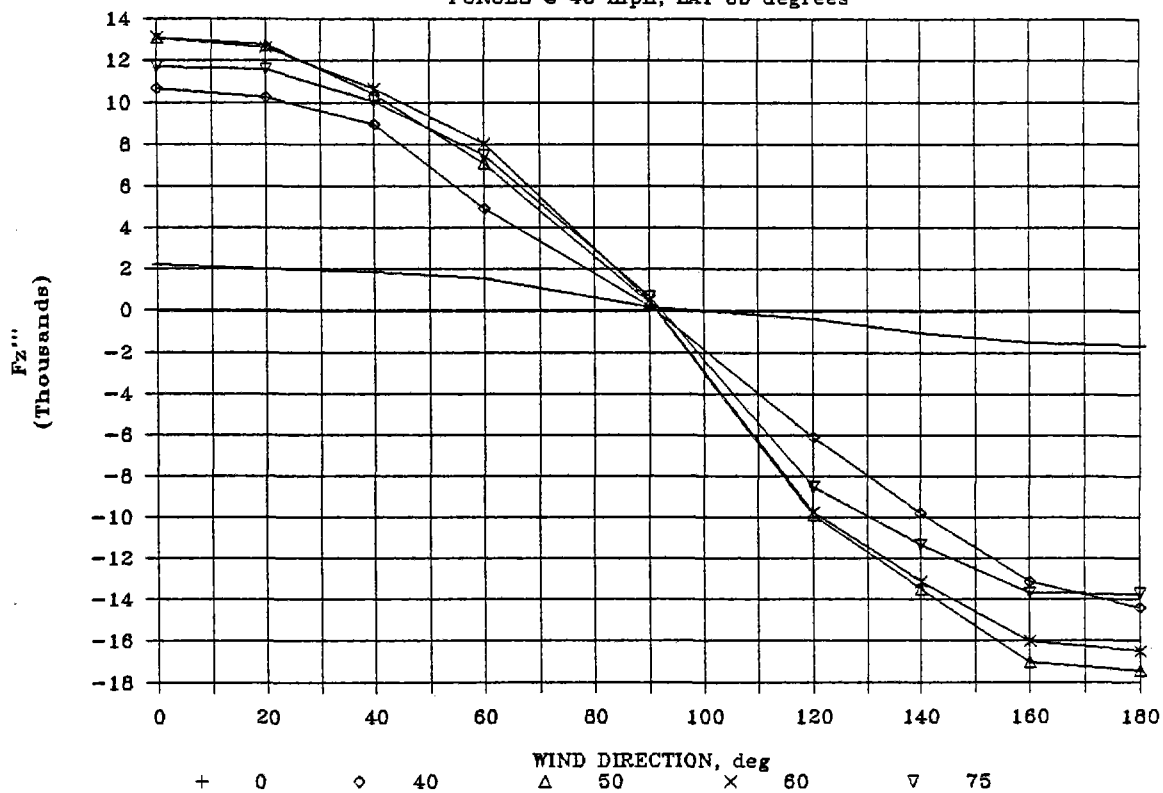
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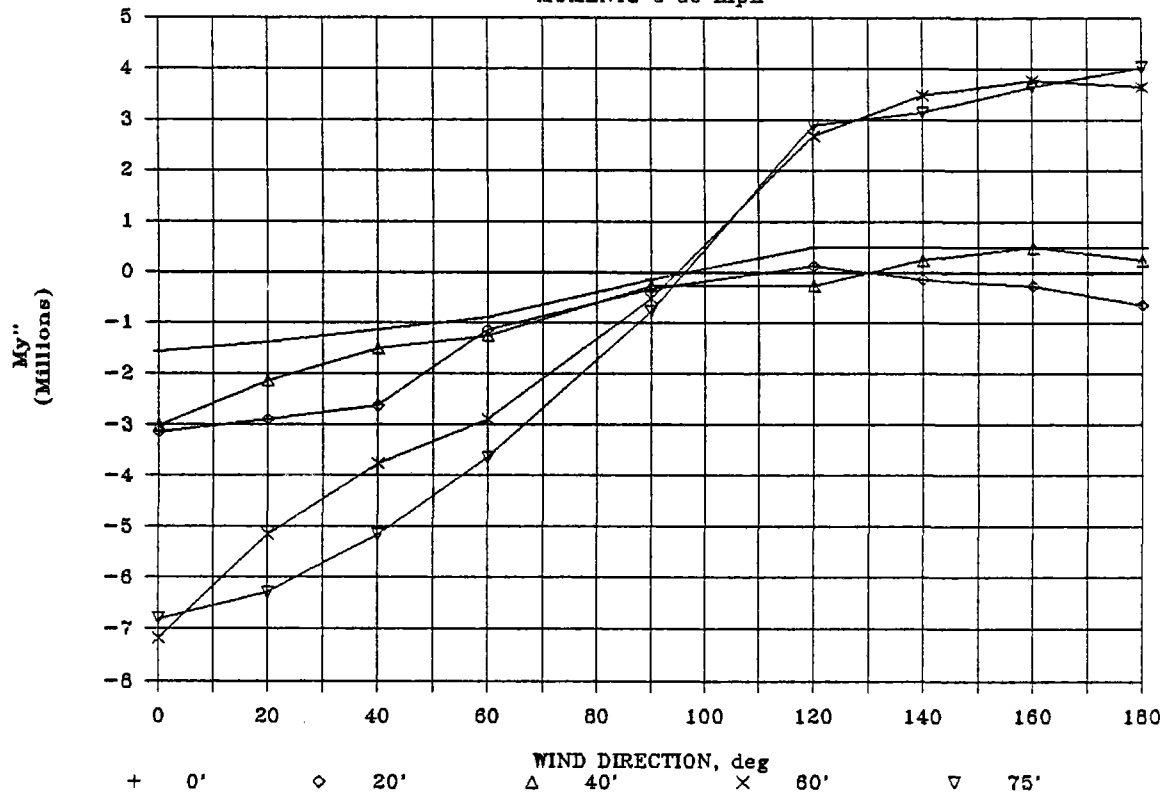
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FORCES @ 45 mph, LAT 35 degrees



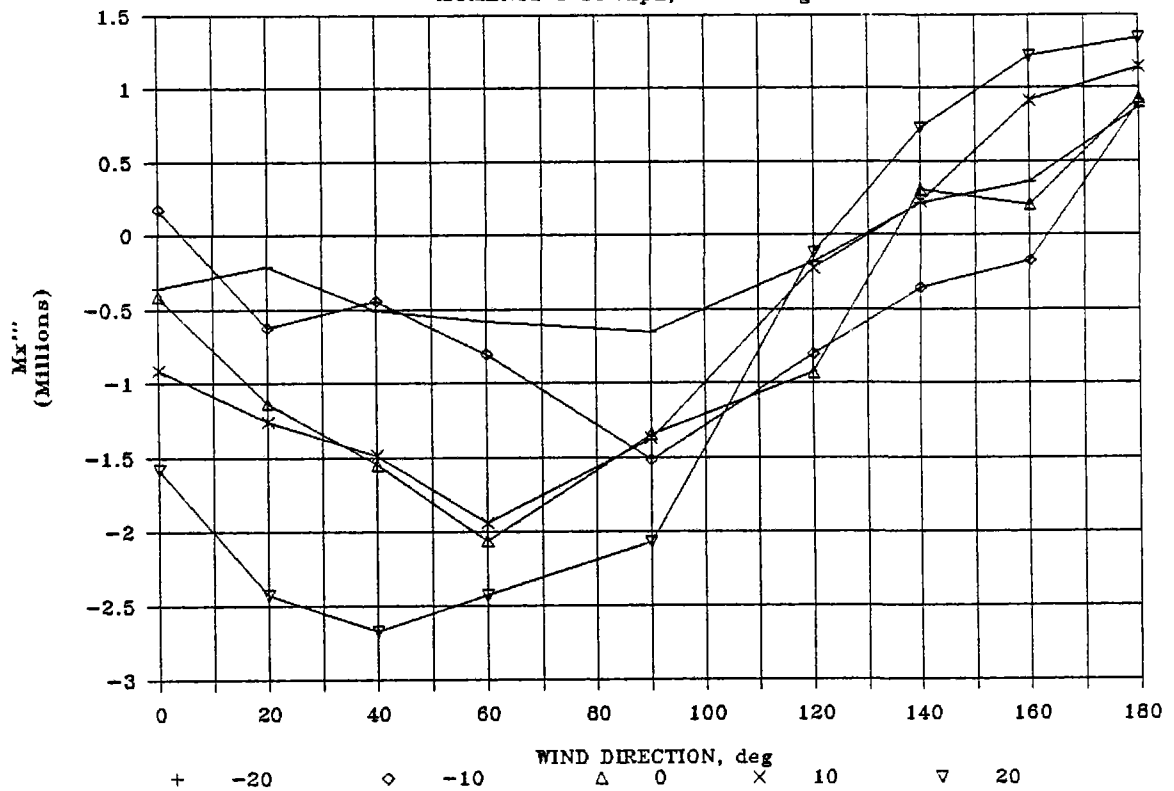
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MOMENTS @ 80 mph



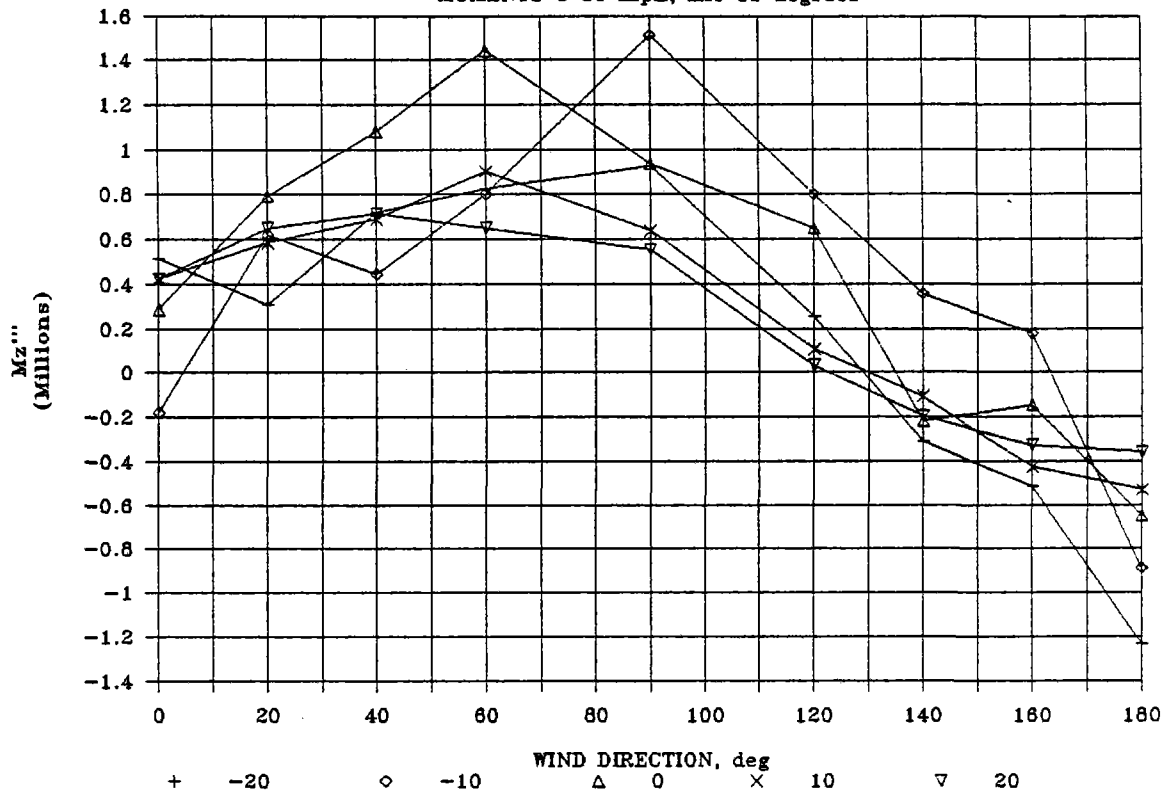
DECLINATION CONDITION

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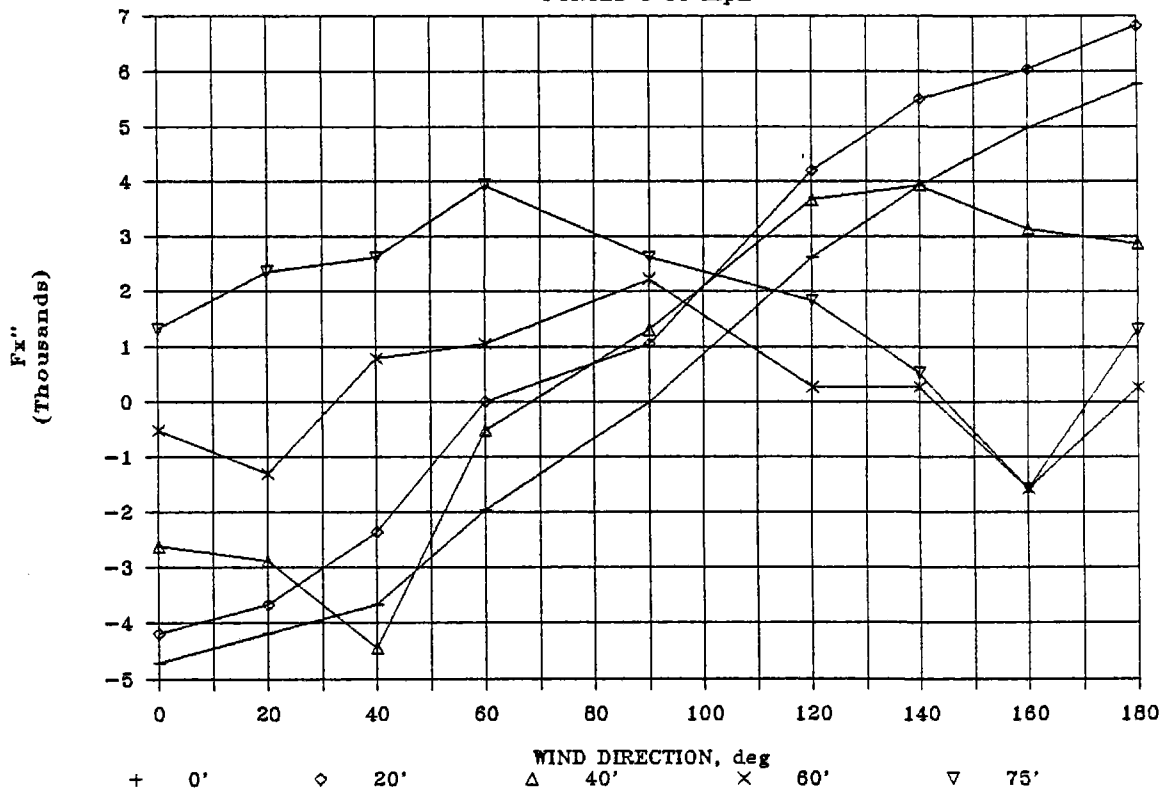
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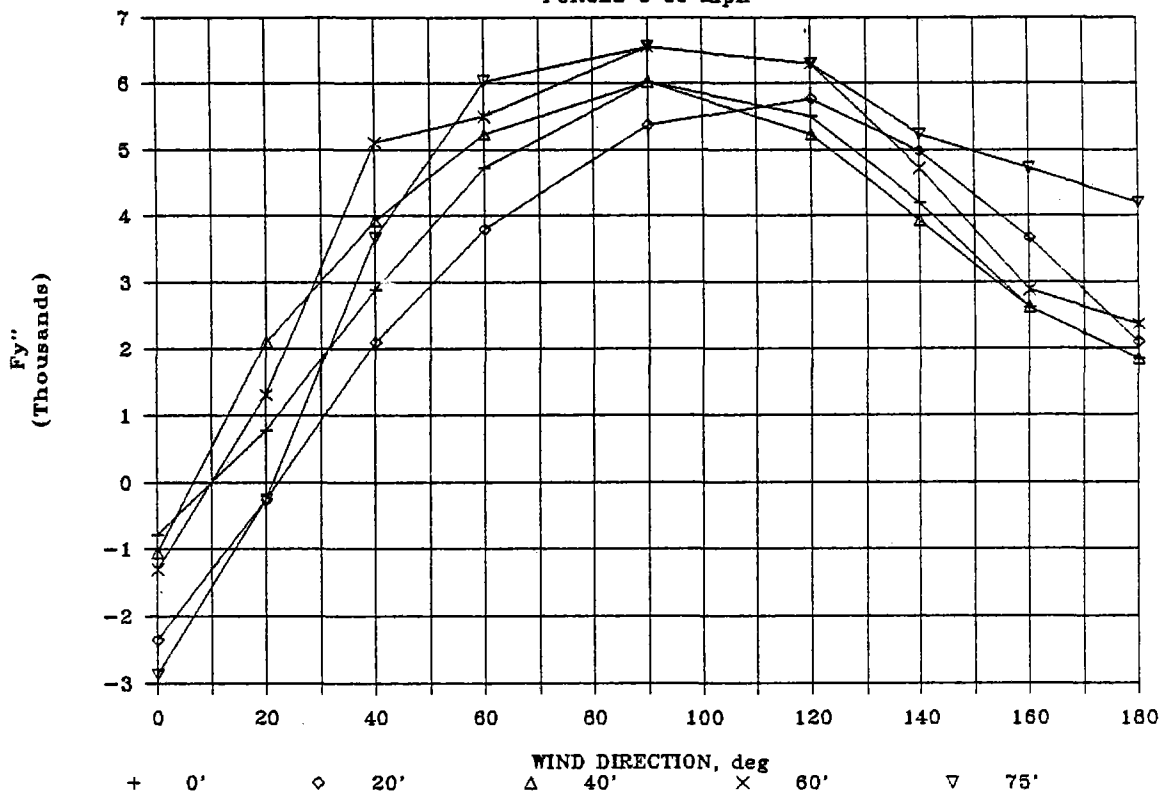
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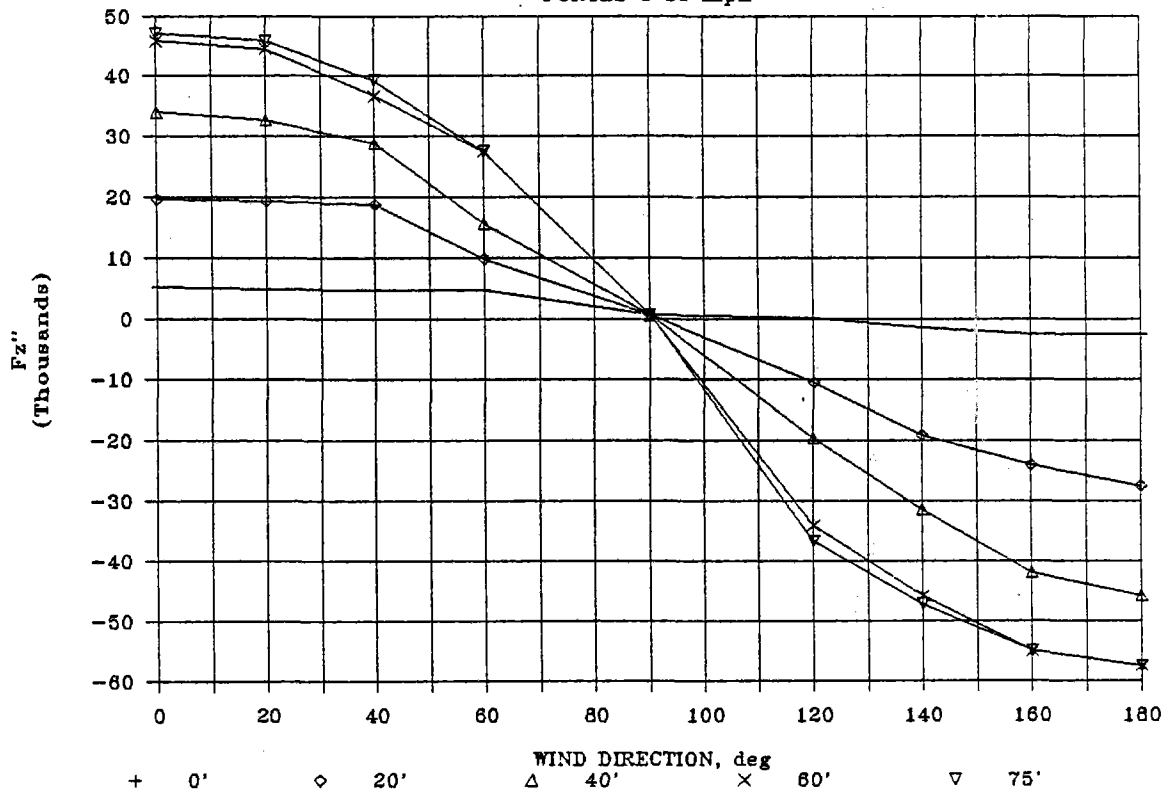
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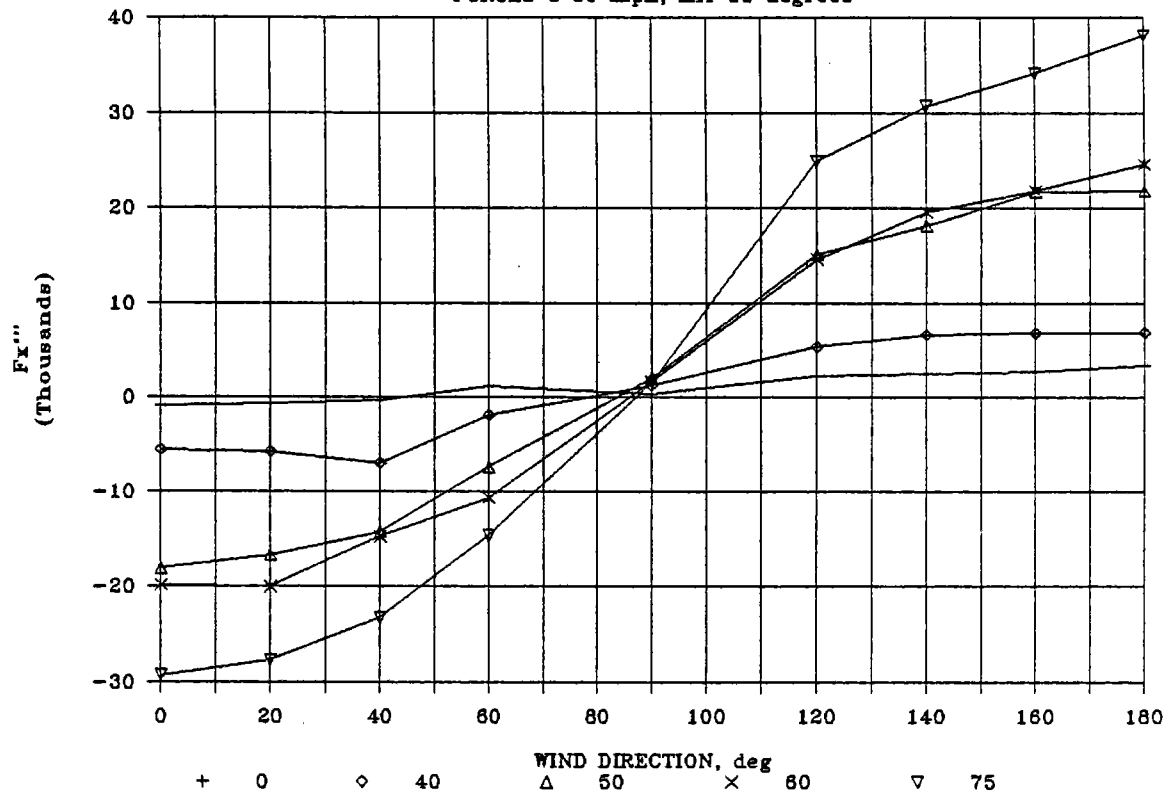
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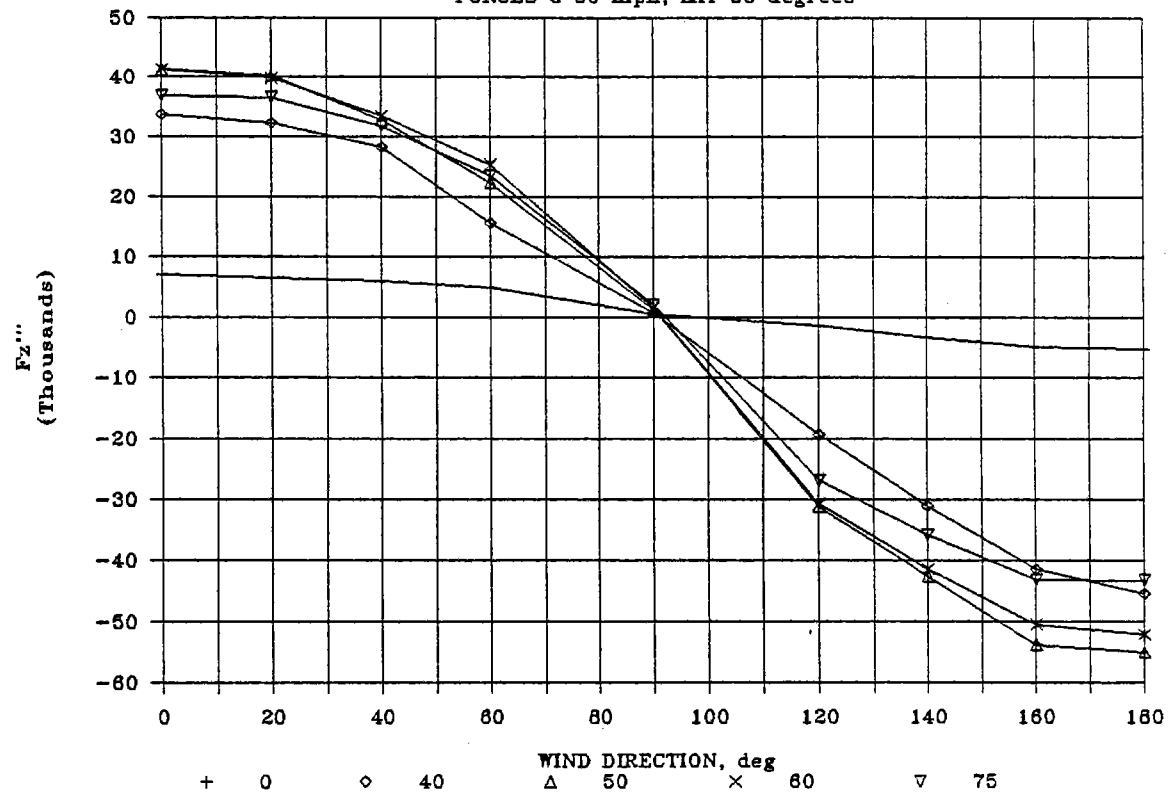
DECLINATION CONDITION

FORCES @ 80 mph, LAT 35 degrees



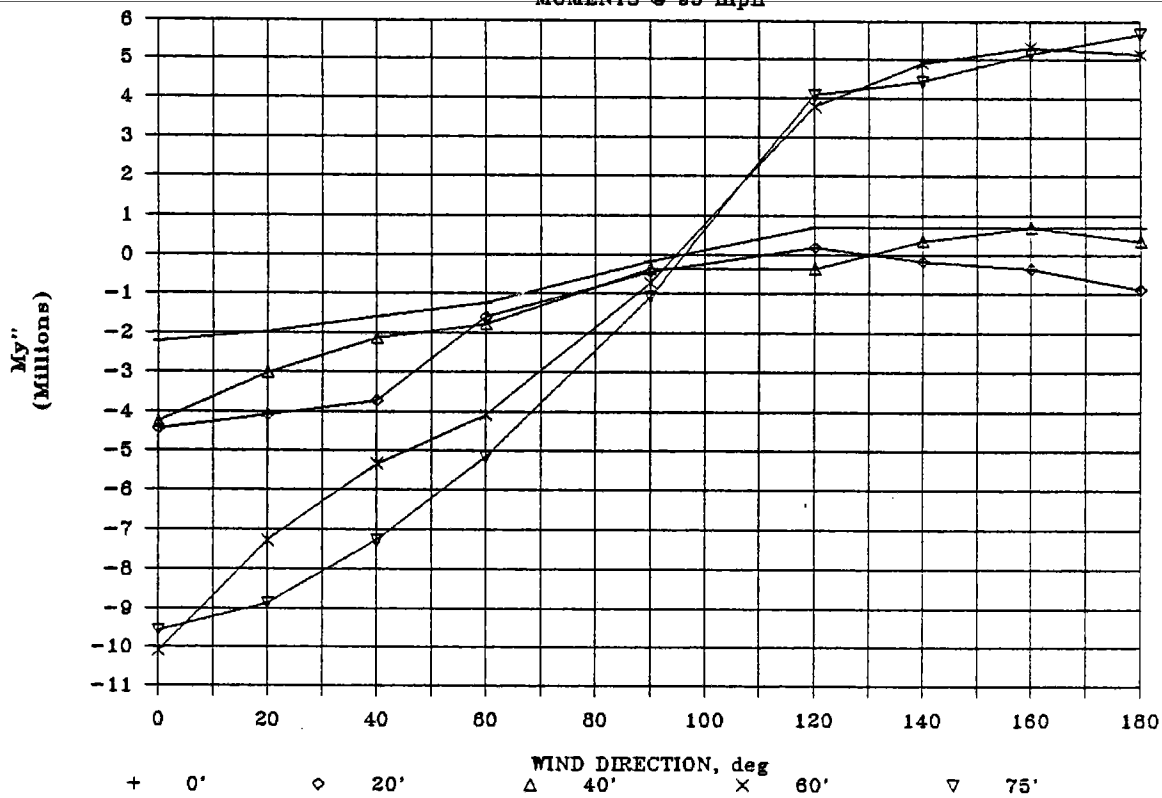
DECLINATION CONDITION

FORCES @ 80 mph, LAT 35 degrees



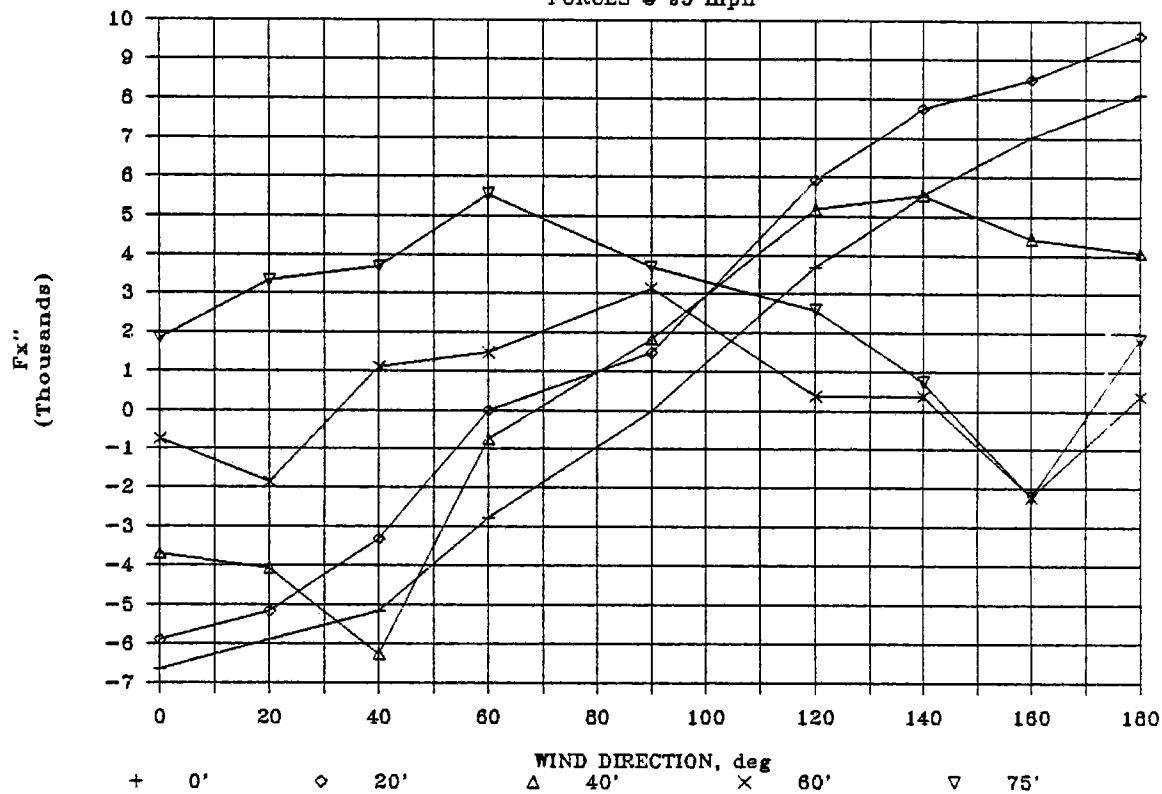
DECLINATION CONDITION

MOMENTS @ 95 mph



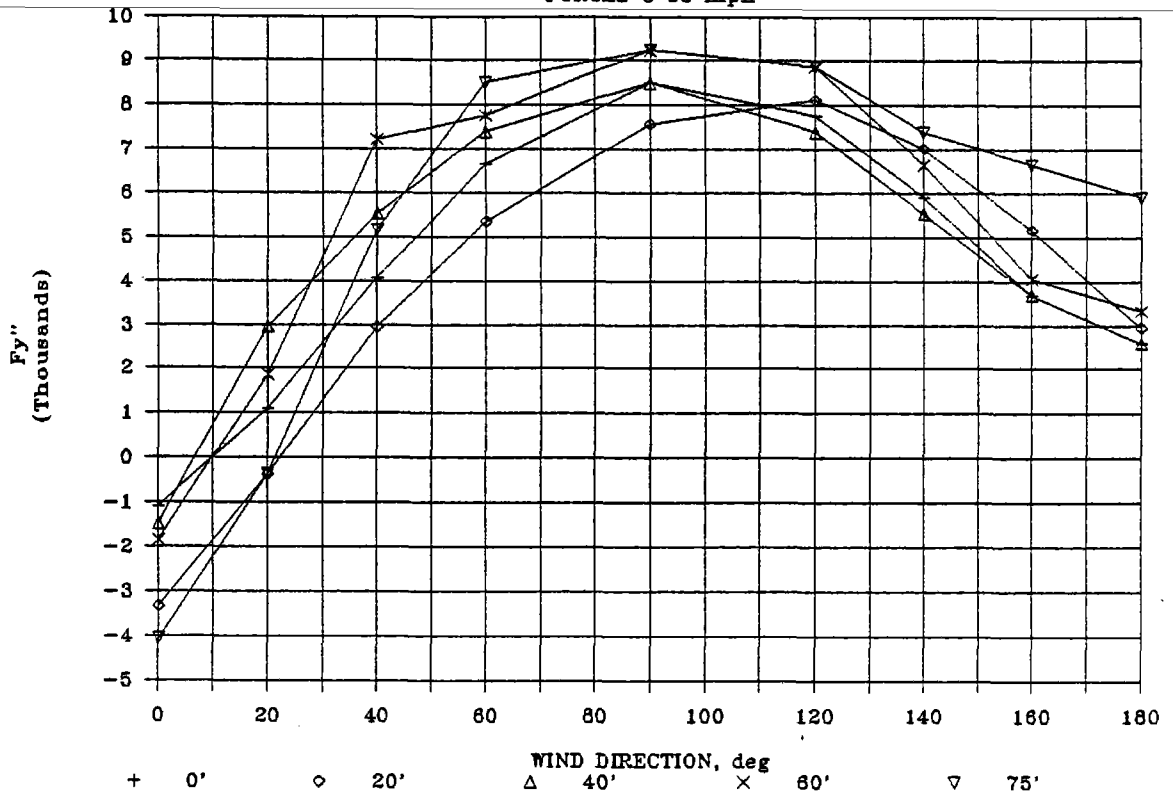
DECLINATION CONDITION

FORCES @ 95 mph



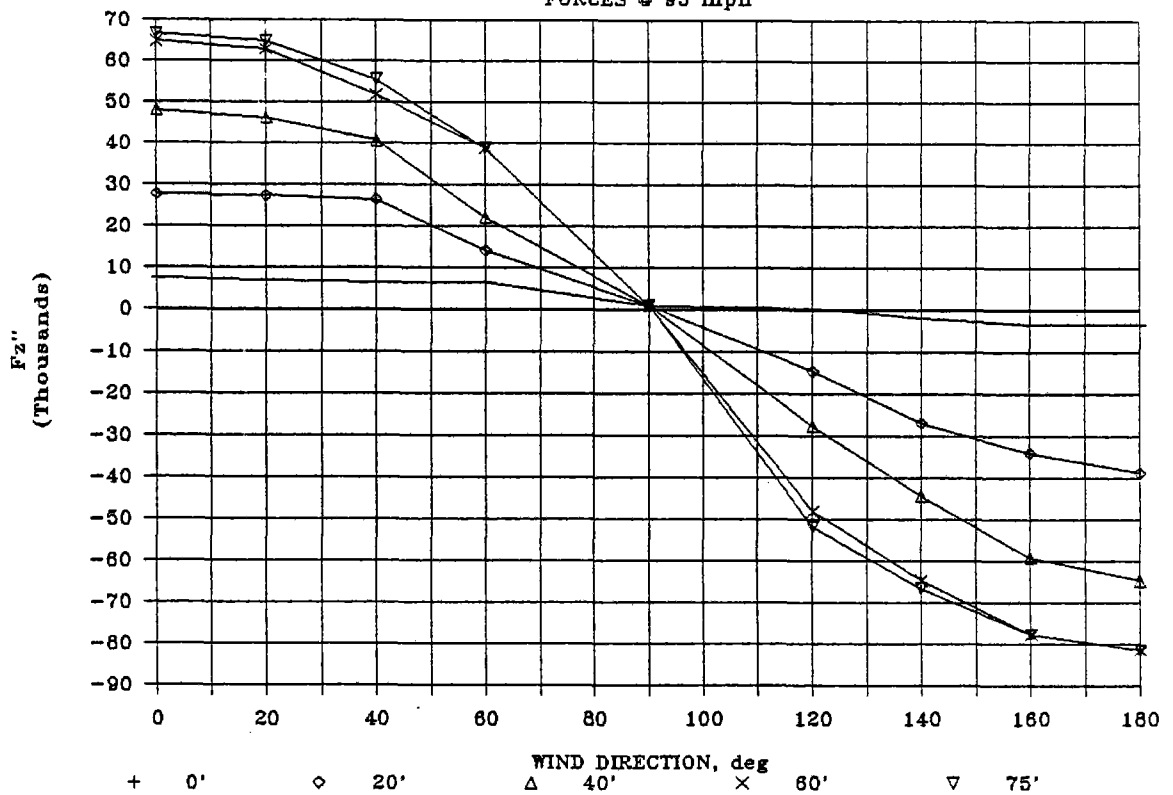
DECLINATION CONDITION

FORCES @ 95 mph



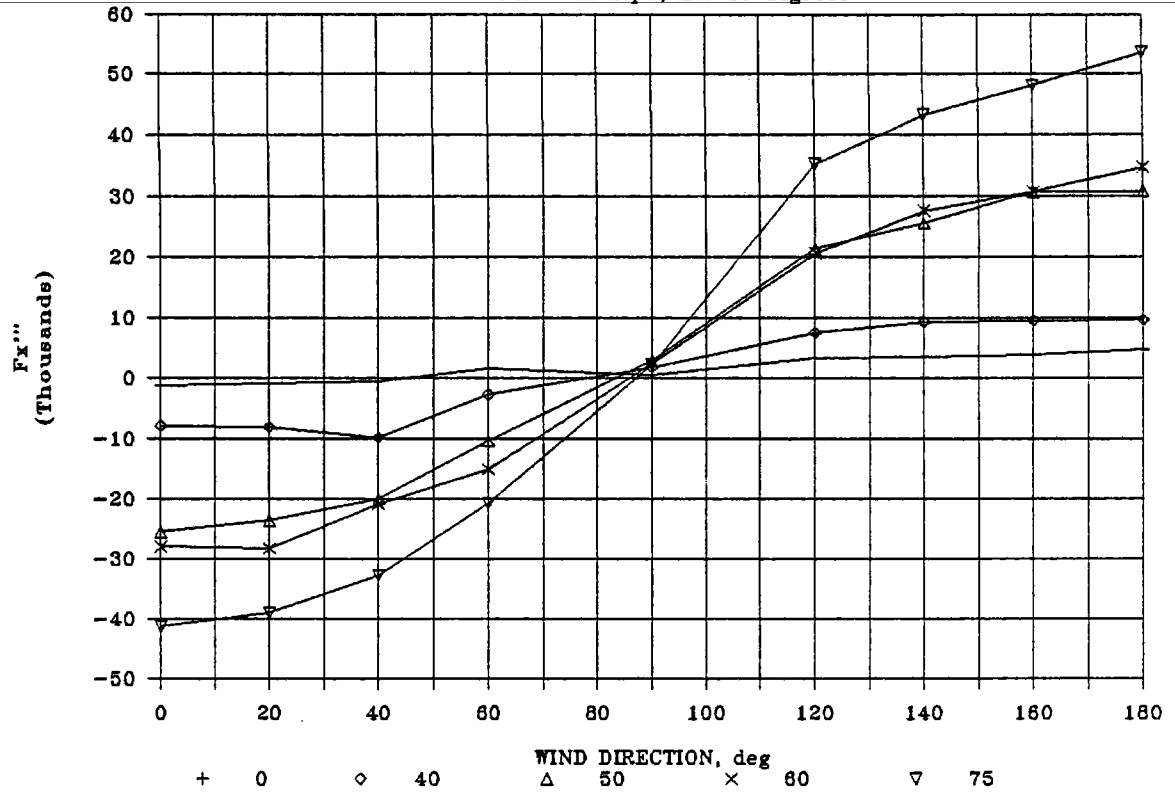
DECLINATION CONDITION

FORCES @ 95 mph



DECLINATION CONDITION

FORCES @ 95 mph, LAT 35 degrees



DECLINATION CONDITION

FORCES @ 95 mph, LAT 35 degrees

