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GEOPHYSICAL REPORT ON THE  
GOLDFINCH GROUP MINERAL CLAIMS

SITUATED IN THE  
REVELSTOKE MINING DIVISION

LATITUDE 50° 41.5'

LONGITUDE 117° 39.5'

NTS 82-K / 13-E

HELD UNDER OPTION BY;

GRANGES EXPLORATION LTD.  
900 - 625 HOWE ST.  
VANCOUVER, B. C.  
V6C 2T6

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

13,920

OCTOBER 10, 1985

C. M. ARMSTRONG  
(J. J. LEADER)

TABLE OF CONTENTS

	<u>PAGE</u>
INTRODUCTION.....	1
CLAIMS.....	1
LOCATION & ACCESS.....	1
TOPOGRAPHY & VEGETATION.....	2
GEOLOGY.....	2
GEOPHYSICAL SURVEY.....	2-3
RESULTS & RECOMMENDATIONS.....	3
BREAKDOWN OF EXPENDITURES.....	4
AUTHORS QUALIFICATIONS.....	5

ENCLOSURES

1 PLAN SHOWING V.L.F. & MAGNETOMETER SURVEYS

SCALE 1:2500

27 GRAPHS OF V.L.F. RESULTS FOR LINES 210S TO 570N

## INTRODUCTION

The Goldfinch group of claims is composed of 14 crown-granted mineral claims, three reverted crown-granted claims and two located claims.

The property lies approximately 35 Km southeast of Revelstoke, and is accessible both from the Trans-Canada Highway at Revelstoke and B. C. Highway 23 from Revelstoke and Nakusp, by well-maintained roads.

The property is currently held by Granges Exploration Ltd., under an option agreement with Windflower Mining Company.

## CLAIMS

The work was carried out on the following claims:

<u>RECORD NO .</u>	<u>NAME</u>	<u>SIZE</u>
L 12483	Vimy Ridge	1 unit
L 12479	Golden Eagle	1 unit
L 4239	Nina	1 unit
L 12480	Independence	1 unit
L 12481	Dorothy	1 unit
L 5654	Goldfinch	1 unit
L 5653	Walrus	1 unit
L 5655	Sea Lion	1 unit

## LOCATION & ACCESS

The claims are located in the Revelstoke Mining Division, British Columbia. The property lies about four air kilometers north of Camborne, B. C. and about 35 Km southeast of Revelstoke, at Latitude 50° 49.5' N and Longitude 117° 39.5' W, on mapsheet 82K/13E of the National Topographic System.

Elevations on the property range from 1600-6500 feet (488-1981 m) above sea level, with the lowest point at the Incomappleux (Fish) River on the east, to a high at the northwest boundary on the southeast slopes of Camaplix Mountain.

Road access to the property is very good as it is situated within an active logging area, with well-maintained haulage roads and branch roads throughout much of the property.

### TOPOGRAPHY AND VEGETATION

The claims are located in the rugged Selkirk Mountain system. The main showings are located at about elevation 1040 m on a bench with moderate slopes.

Much of the property consists of heavily timbered and logged-over slopes with some rock bluffs, and with more open alpine areas at higher elevations. Most of the rock outcrop is covered by a heavy layer of moss, making prospecting and geological mapping a slow process.

The area has a high snowfall, but due to a southeast exposure and moderate elevation in the area of the main showings, they are usually snowfree from about early May to late October.

### GEOLOGY

The claims are underlain by metamorphic rocks of the early Paleozoic Lardeau group of phyllites and altered greenstone. It includes the Broadview Formation that trends in a general northwest direction for 100 miles, and is host rock to many prospects and former producing mines. Gold is the principal economic mineral found in quartz veins and altered wall rock.

### GEOPHYSICAL SURVEY

During the period August 19th to September 1st, 1985 a program of geophysical surveying was carried out. A grid was blazed and flagged, and then surveyed by magnetometer and V.L.F. electromagnetic equipment.

The magnetometer survey was performed first and a total of 9 Km of surveying was carried out on lines 330N to 570N and 60S to 210S. (The intervening lines of 300N to 30S were surveyed in 1984 by Peter E. Walcott & Assoc. for the previous holder). Readings were taken at 25 m intervals and the results were contoured at 100 gamma intervals, or 1000 gamma intervals where the gradient was too steep. The machine used for the survey was a Scintrex MF2 manufactured by Scintrex Ltd. of Concord, Ontario.

The V.L.F. electromagnetic survey was carried out on lines 210S to 570N for a total of 16.63 Km. Readings were taken at 25 m intervals using a Phoenix V.L.F. 2 machine manufactured by Phoenix Geophysics Ltd. of Willowdale, Ontario. The frequency used was that of 21.4 Khz from Annapolis, Maryland.

The work was performed by K. Taylor, K. Shanks and S. Weekes, Geologists for Granges Exploration Ltd. Results were plotted and interpreted by M. Prew and J. Leader of Granges personnel.

#### RESULTS & RECOMMENDATIONS

The magnetometer survey showed the continuation of a linear anomaly centered about line 100E, but there are no recommendations based on these results.

The V.L.F. survey located 2 second priority anomalies; the first on lines 450N to 360N at 275E to 300E, and the second on lines 180N to 120N at 90W.

A small drill program is proposed to commence almost immediately, comprising of approximately 6 diamond drill holes. Two of these holes will be drilled to test the V.L.F. anomalies, two will be drilled to test the area of gold values found in trenches at 240N & 210N on the baseline, and two holes will be drilled to test for the extension of veins from the old underground workings.

BREAKDOWN OF EXPENDITURES

PERSONNEL

S. Weekes	14 days x \$65	\$910.00
K. Taylor	14 days x \$65	\$910.00
K. Shanks	14 days x \$60	\$840.00

CAMP

For 3 people	42 x \$30	\$1260.00
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REPORT PREPARATION

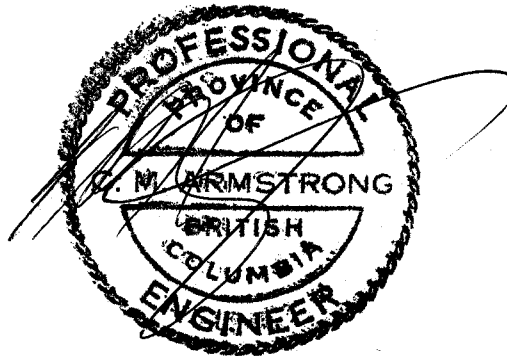
J. J. Leader	2 days @ \$92.15	\$184.30
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ADMINISTRATION

\$410.43

TOTAL

\$4,514.83



CERTIFICATION

I, CHRISTOPHER MACKENDRICK ARMSTRONG of the City of Vancouver, Province of British Columbia, do hereby certify:

THAT I am a practicing Geological Engineer residing at 4085 West 29th Avenue, Vancouver, British Columbia, V6S 1V4, Canada.

THAT I am a registered Professional Engineer in good standing in the Provinces of British Columbia and Ontario.

THAT I received the degree of B.Sc. in Geological Engineering from Queen's University, Kingston, Ontario in 1960, and practiced my profession continuously in the period between leaving university in 1959 and returning to university in 1966.

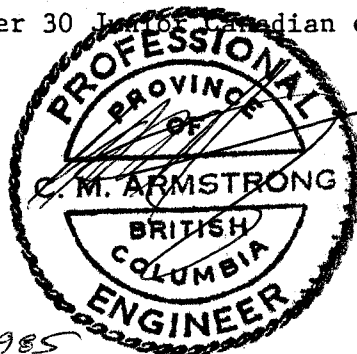
THAT I enrolled in the Department of Mineral Engineering at the University of British Columbia in 1966, and in the period to 1969 completed course work and research work requirements in an M.A.Sc. program, specializing in bacterial-acid leaching systems; thesis writing was not completed; post graduate courses in economic geology and North American geology also were taken and completed.

THAT since leaving university in 1969, I have practiced my profession both as a Geological Engineer and as a Specialist-Advisor in ambient temperature-pressure leaching systems.

THAT the following is a true record of my employment and experience:

- 1957            4 mos. Junior Geologist. Noranda Mines Ltd. Noranda, Quebec.
- 1958            4 mos. Party Chief. Hollinger North Shore Exploration Co. Ltd. New Quebec and Labrador.
- 1959-1961      2 yrs. Assistant Geologist. Pickle Crow Gold Mines Ltd. Pickle Crow, Ontario. Teck Corporation Ltd.
- 1961-1962      1 yr. Assistant Geologist. Willroy Mines Ltd. Manitowadge, Ontario.
- 1962-1964      2 yrs. Chief Geologist. Metal Mines Ltd. Werner Lake, Ontario. Consolidated Canadian Faraday.
- 1964-1966      2 yrs. Chief Geologist. Tegren Goldfields Ltd. Kirkland Lake, Ontario. Teck Corporation Ltd.
- 1967            ½ yr. Project Geologist. Mcleese Lake property, B. C. Geophysical Engineering & Surveys Ltd. Teck Corporation Ltd.
- 1969-1970      1 yr. Laboratory Manager, Chief Geologist, and Consulting Engineer. S. M. Industries Ltd. Vancouver, B. C.
- 1970- 1985      Independent Consulting Engineer. Canada, U.S.A., and Mexico.  
Senior Clients: Long Lac Mineral Exploration Ltd., H.A. Simons (International) Ltd., Granby Mining Corporation, Du Pont of Canada Exploration Ltd., Bethlehem Copper Corporation, Mining Corporation of Canada (1964) Ltd., E & B Explorations Ltd., Granges Exploration Ltd.

Junior Clients: Over 30 ~~of~~ Canadian exploration companies.



Dated at Vancouver this  
16th Day of October, 1985

C. M. Armstrong, P.Eng.  
Consulting Engineer

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SURVEY  
on

WINDFLOWER

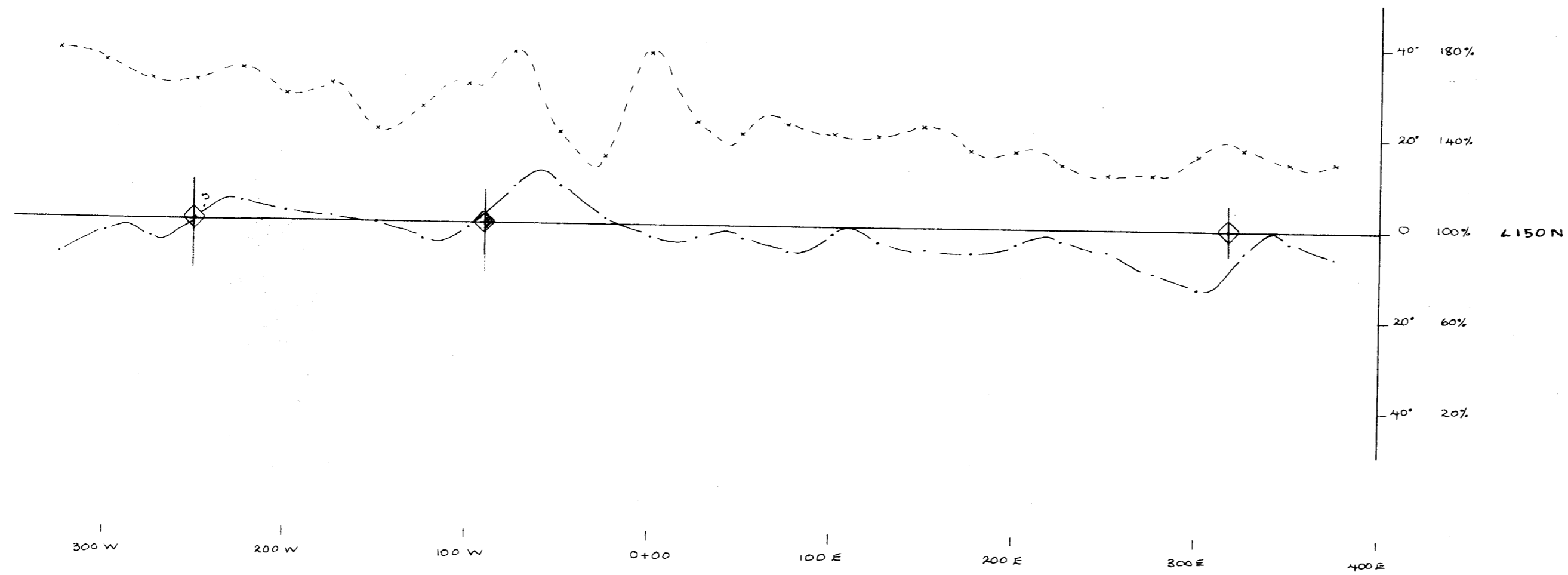
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PROFILE SECTION OF FIELD DIP ANGLE  
AND HORIZONTAL FIELD STRENGTH

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- x- FIELD STRENGTH PROFILE  
SCALE 1cm = 20%
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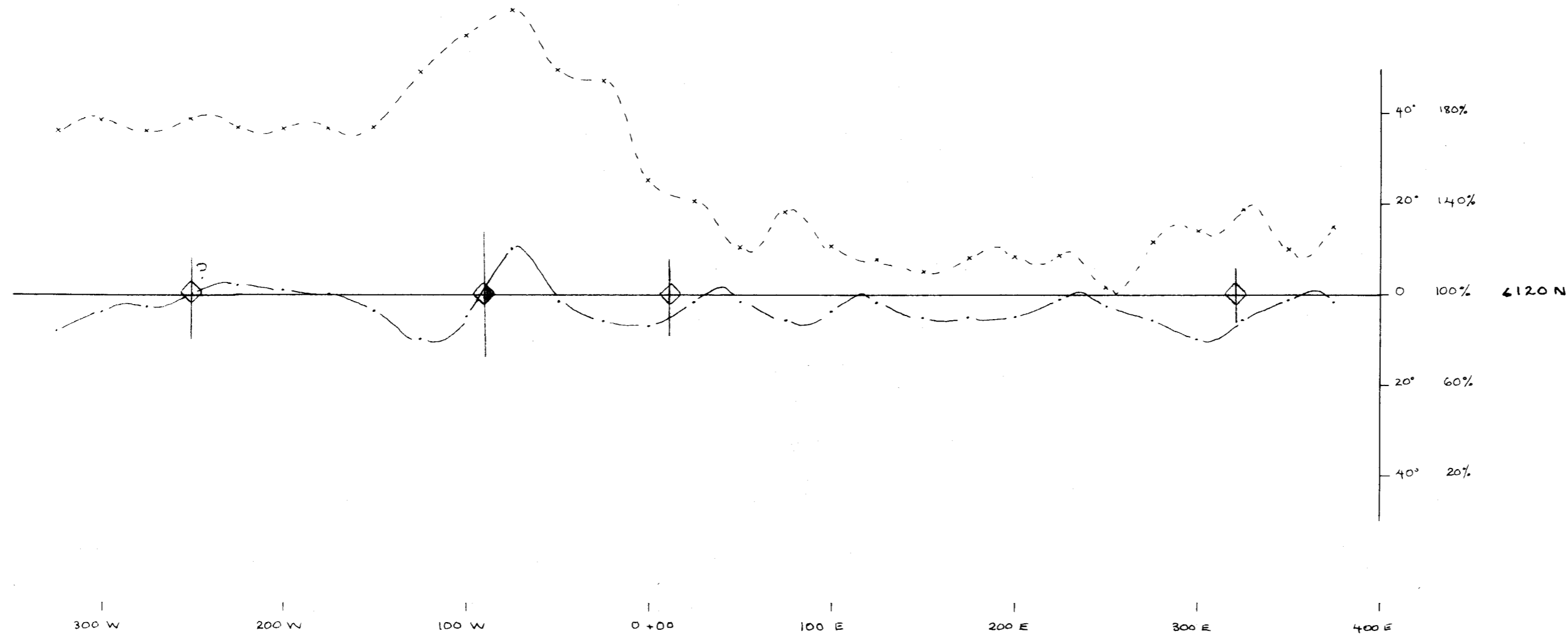
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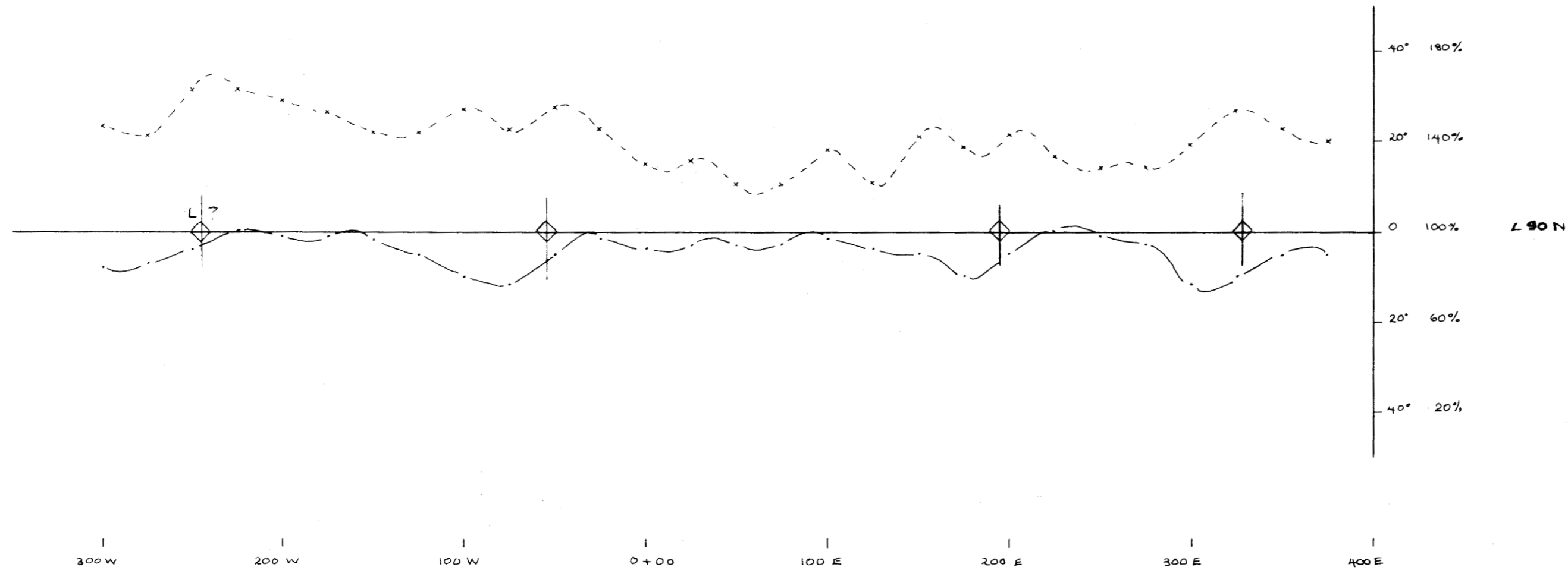
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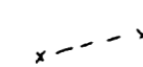
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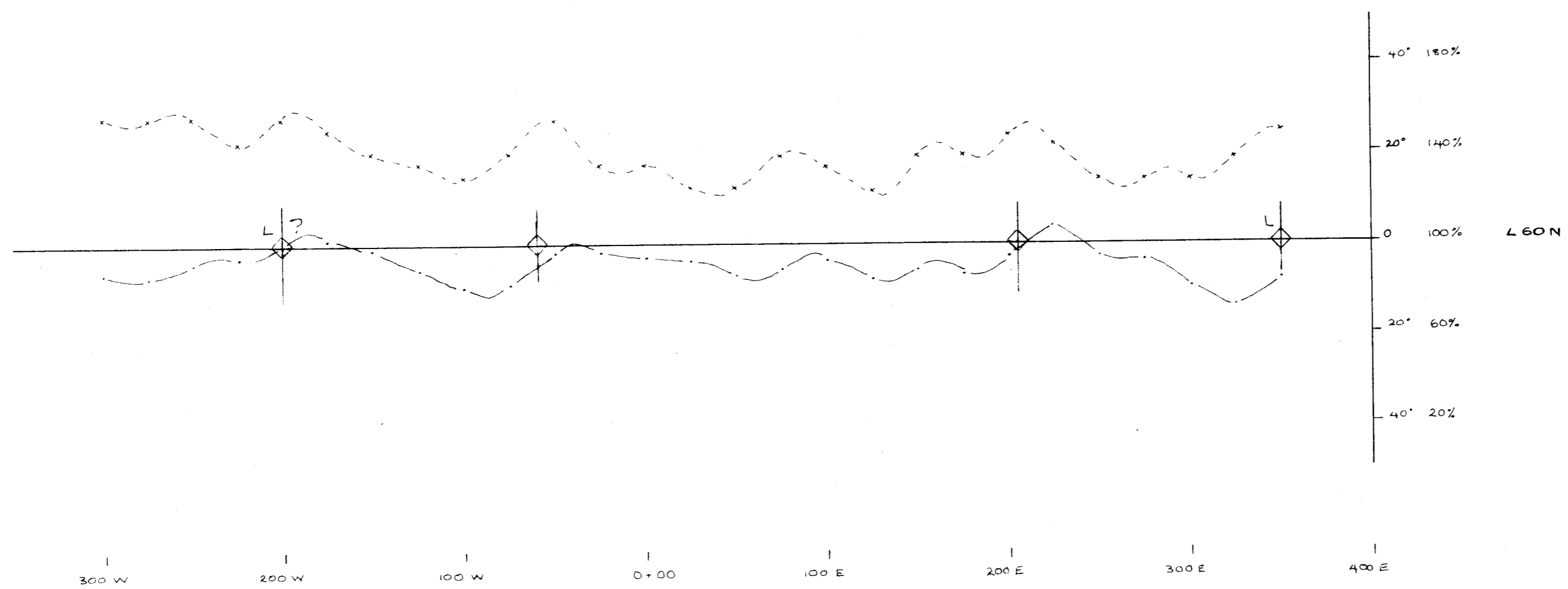
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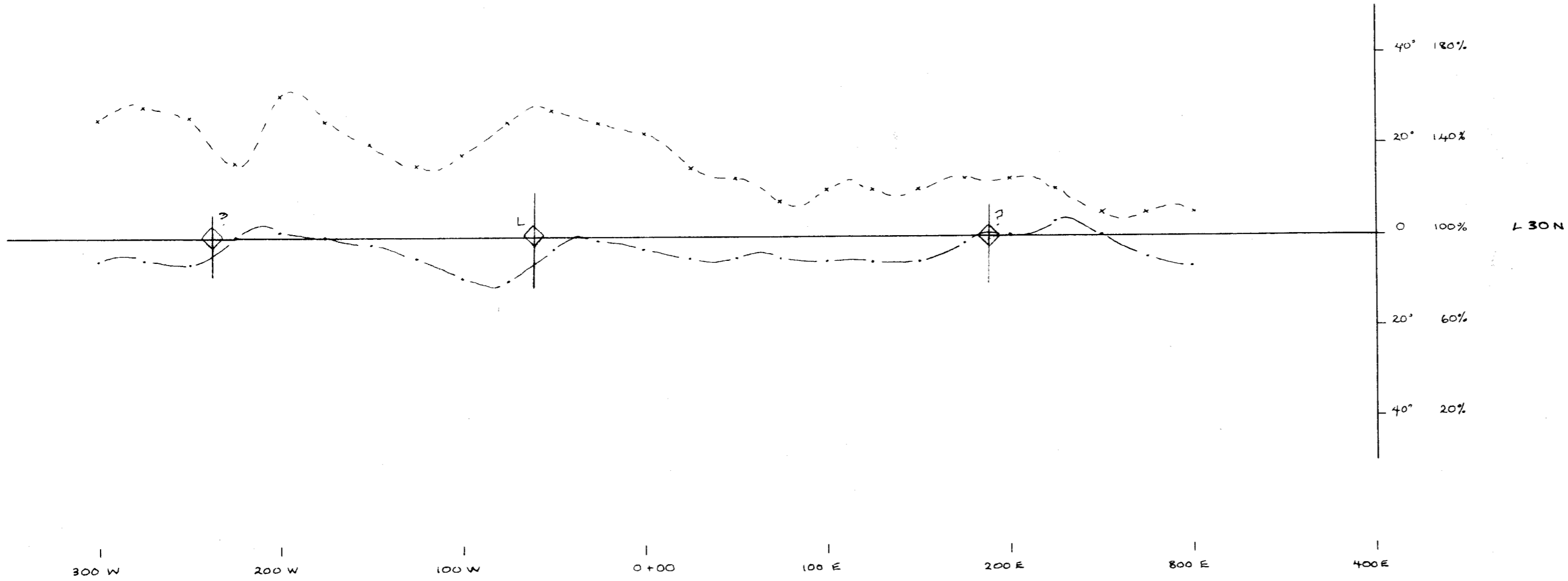
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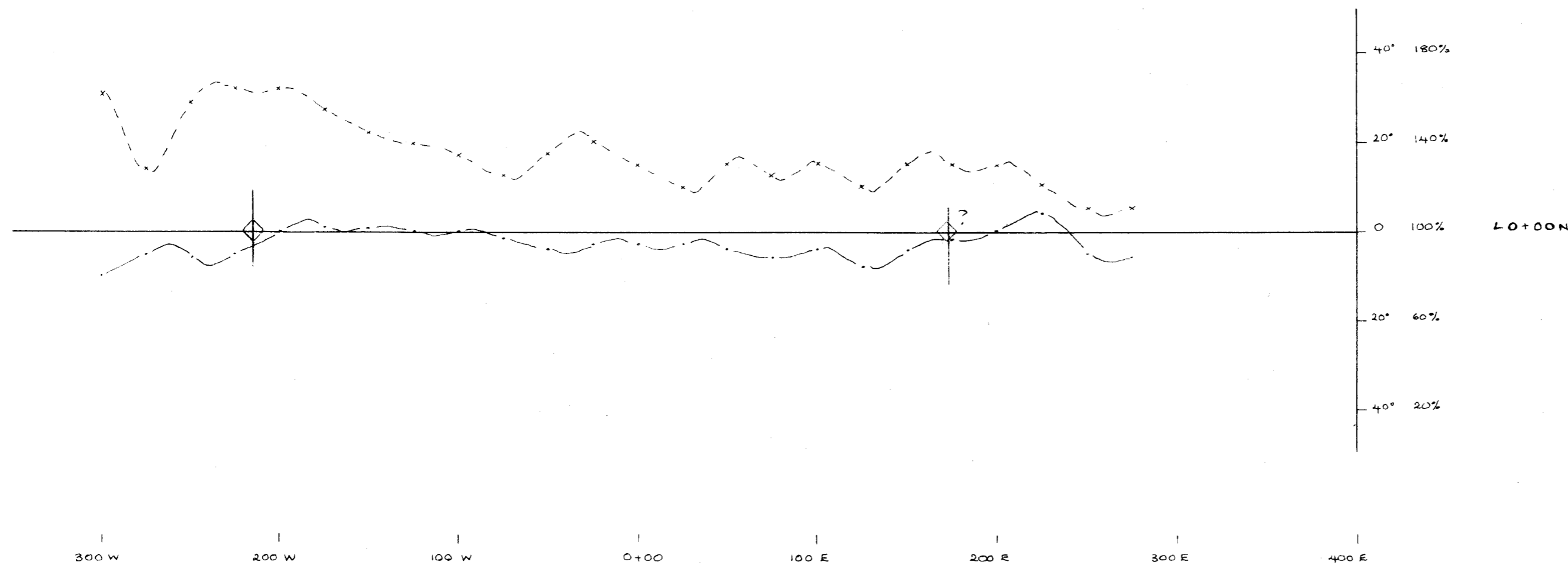
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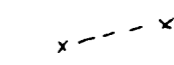
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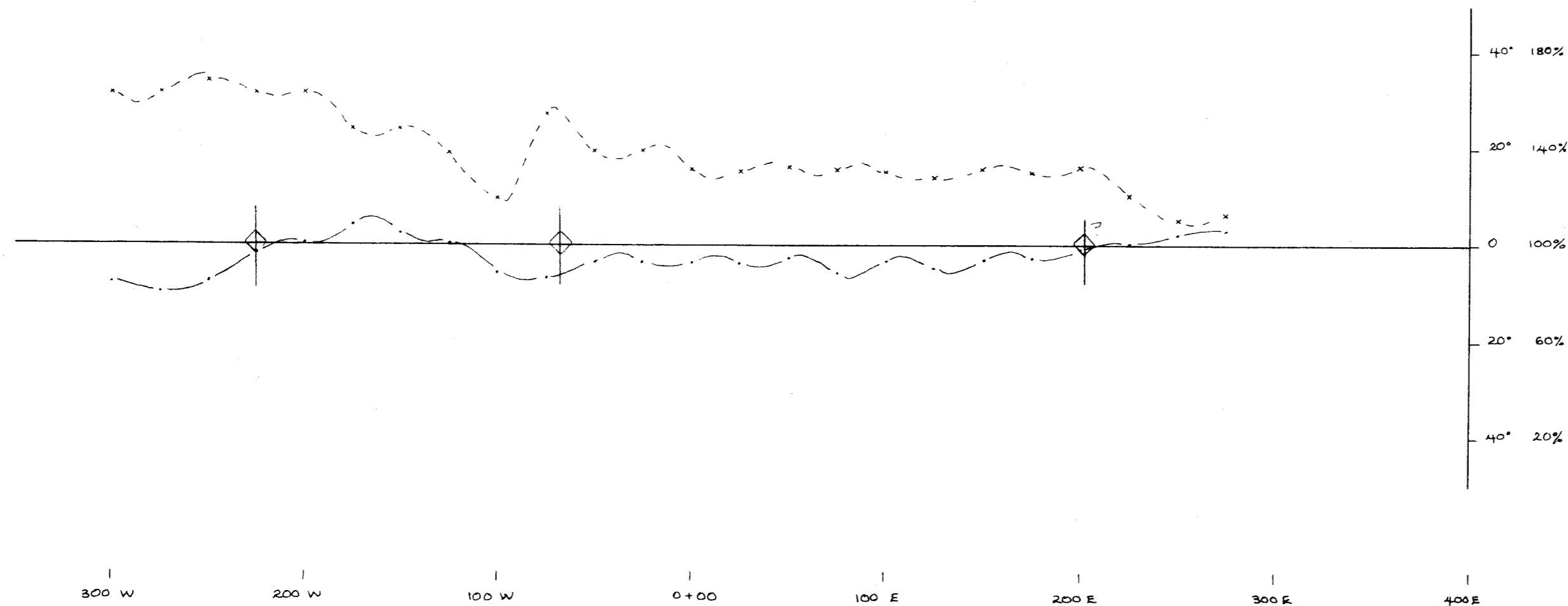
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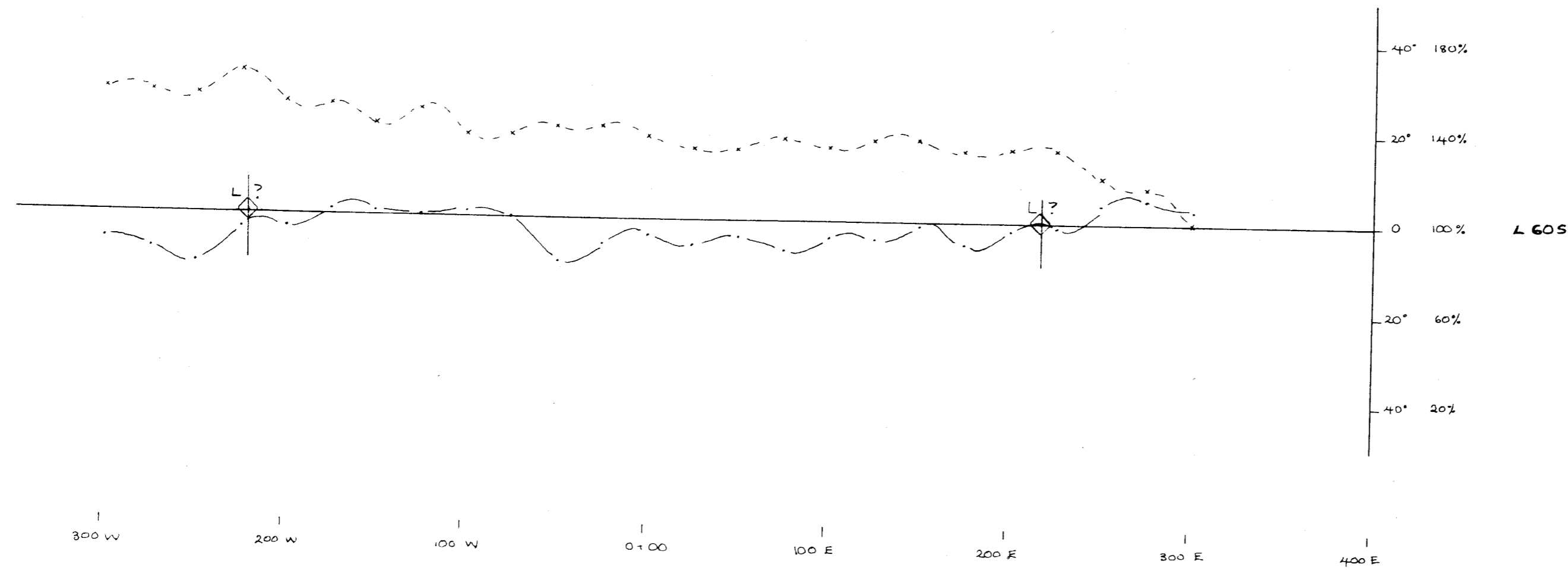
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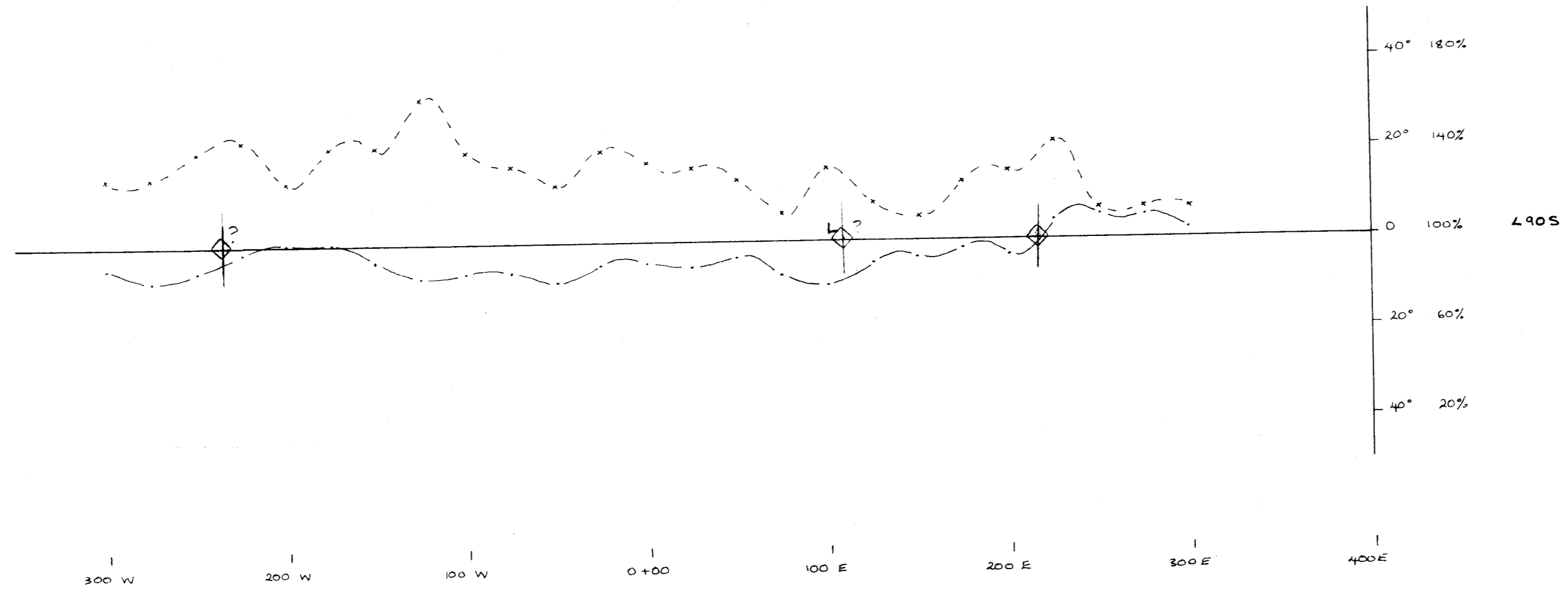
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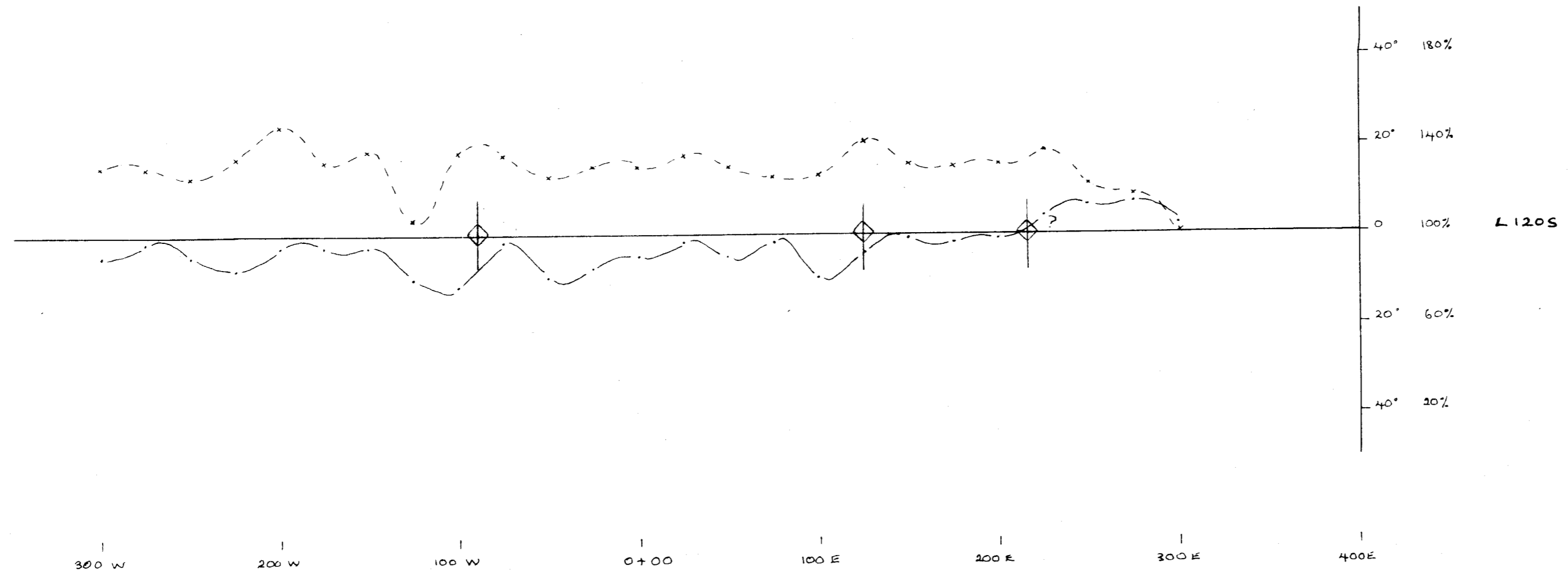
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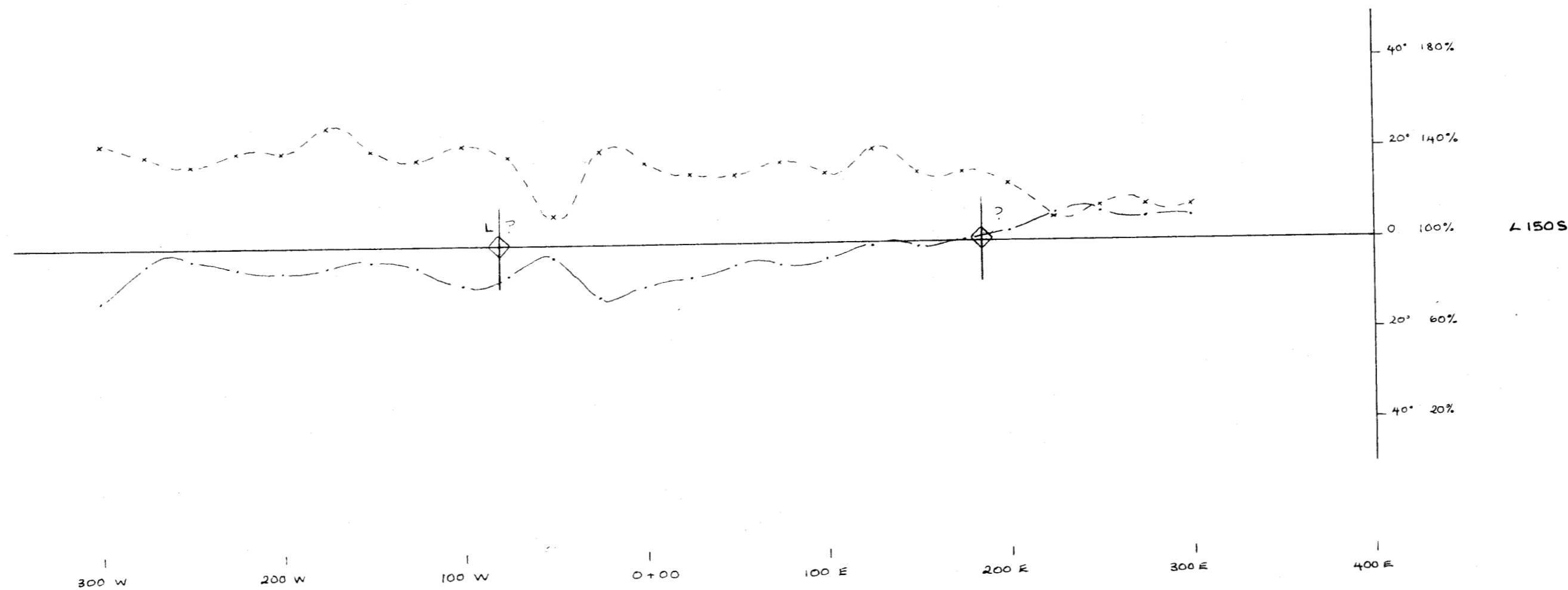
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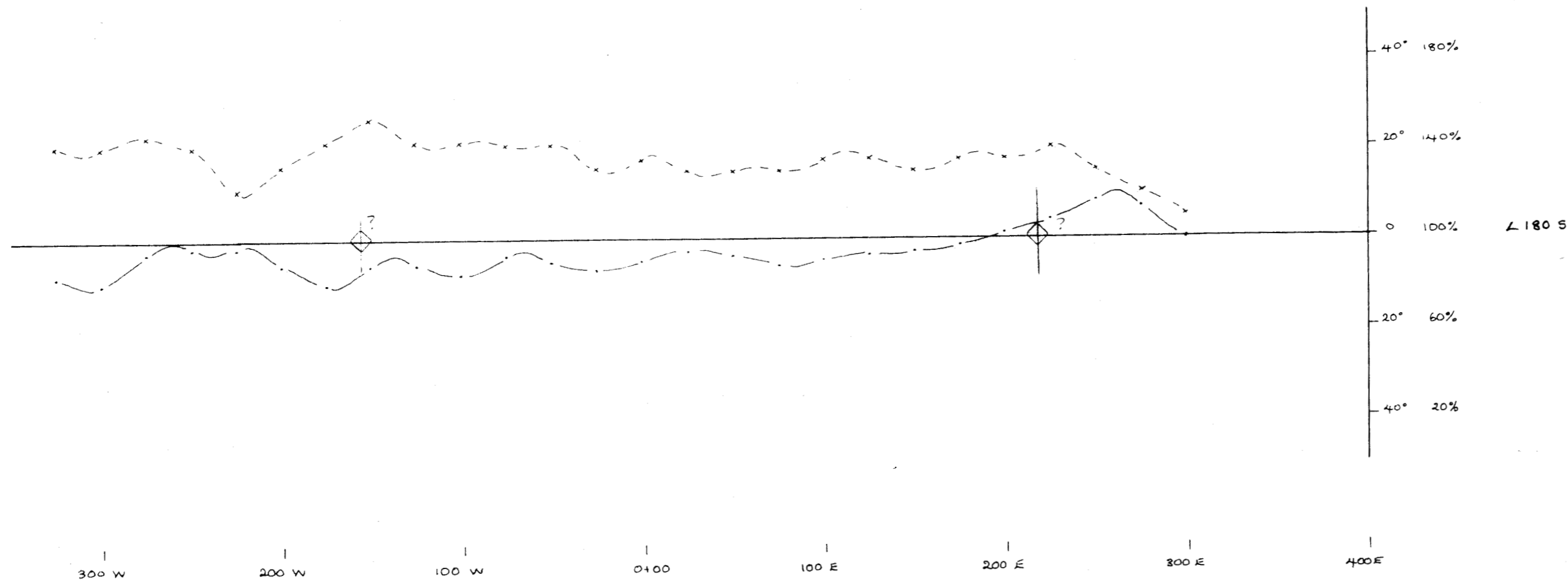
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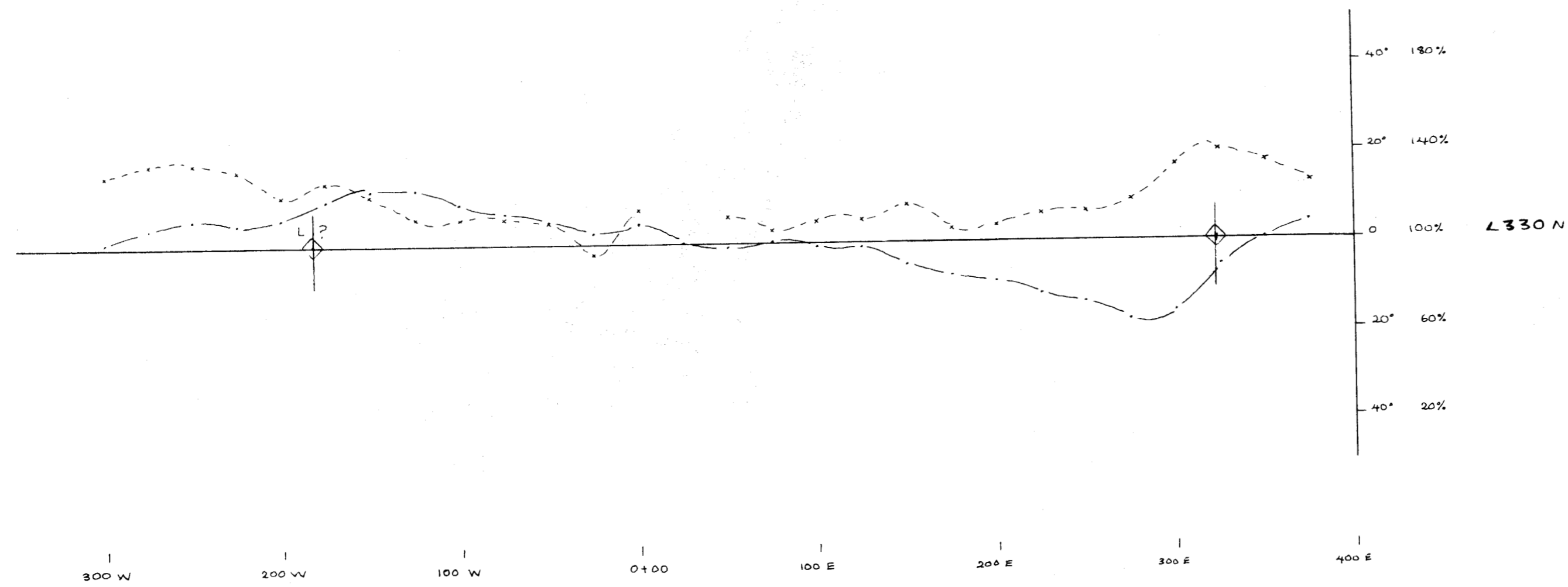
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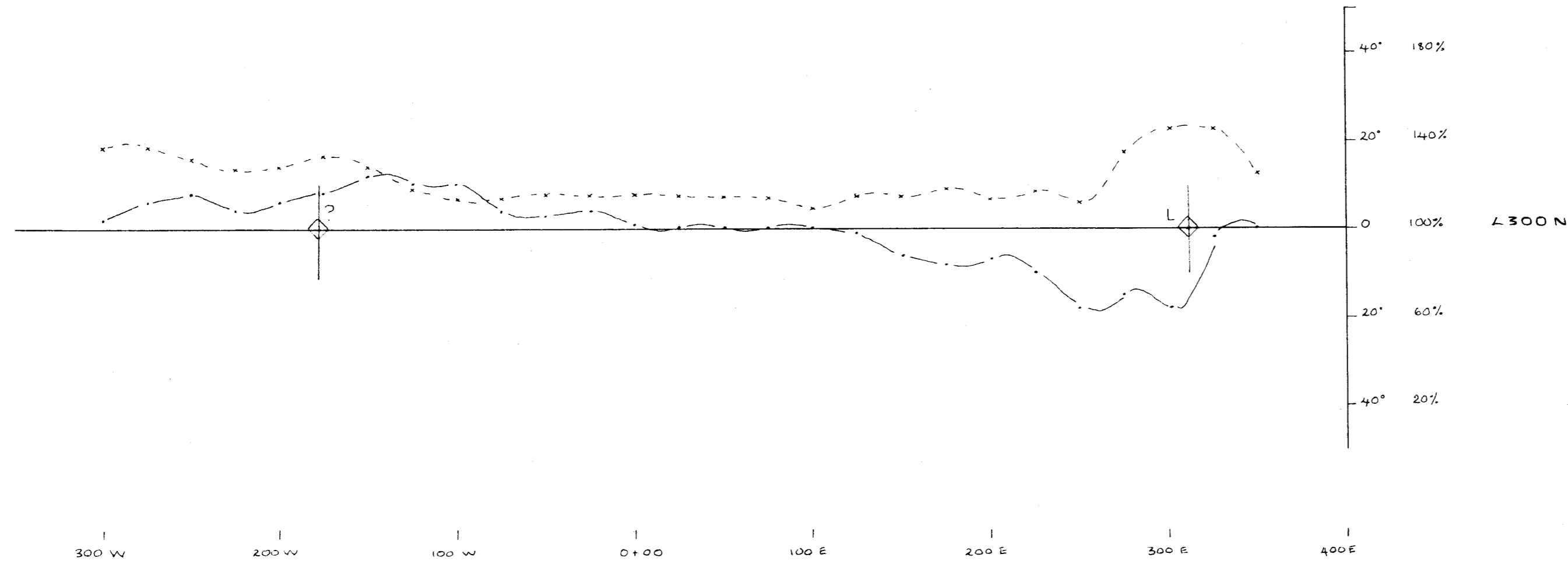
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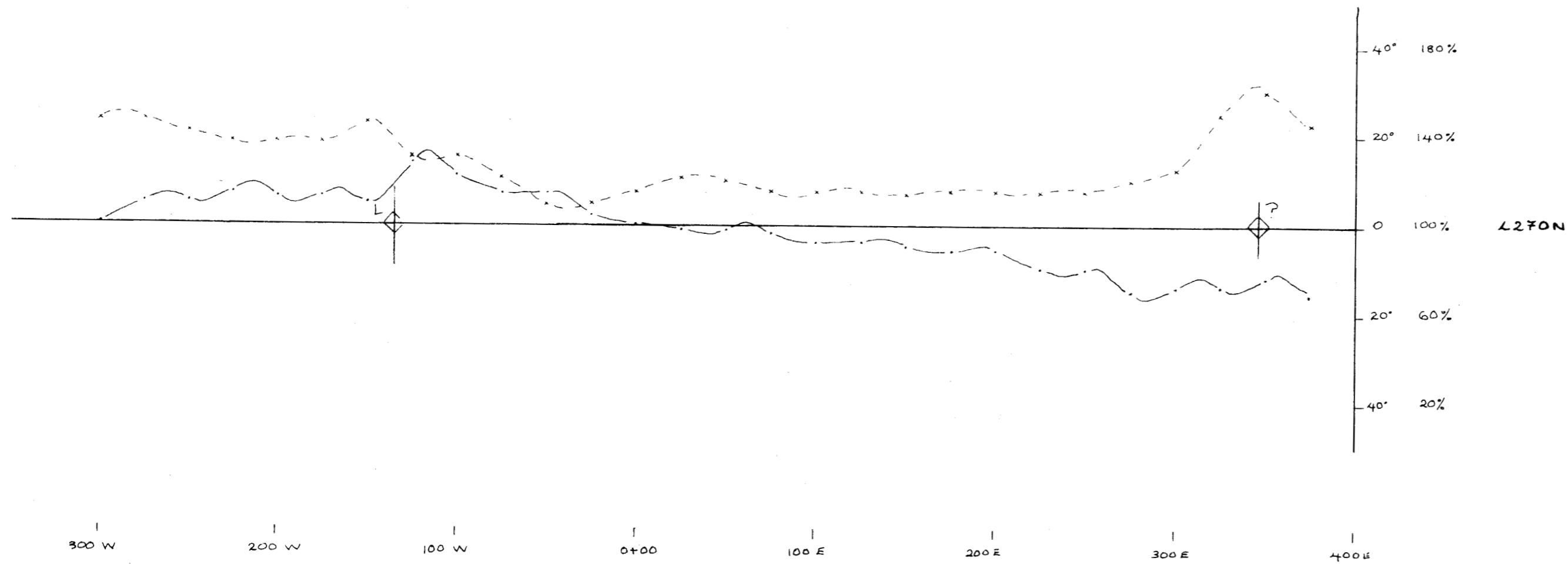
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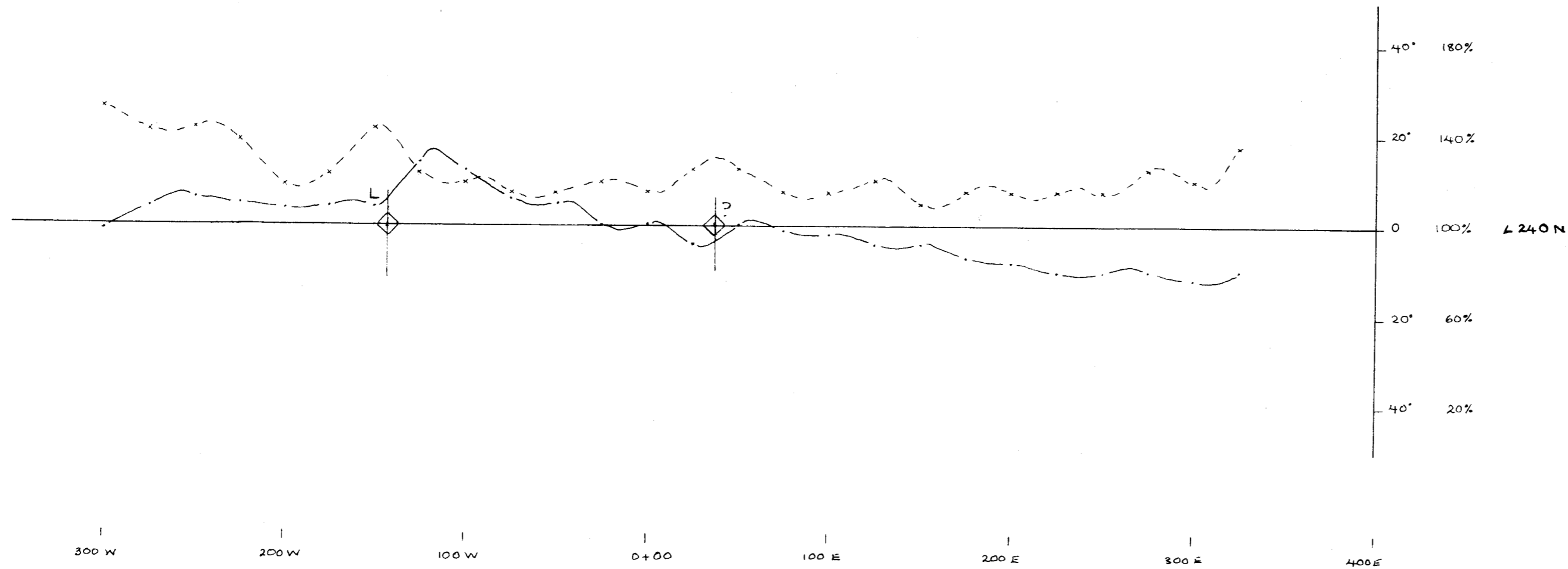
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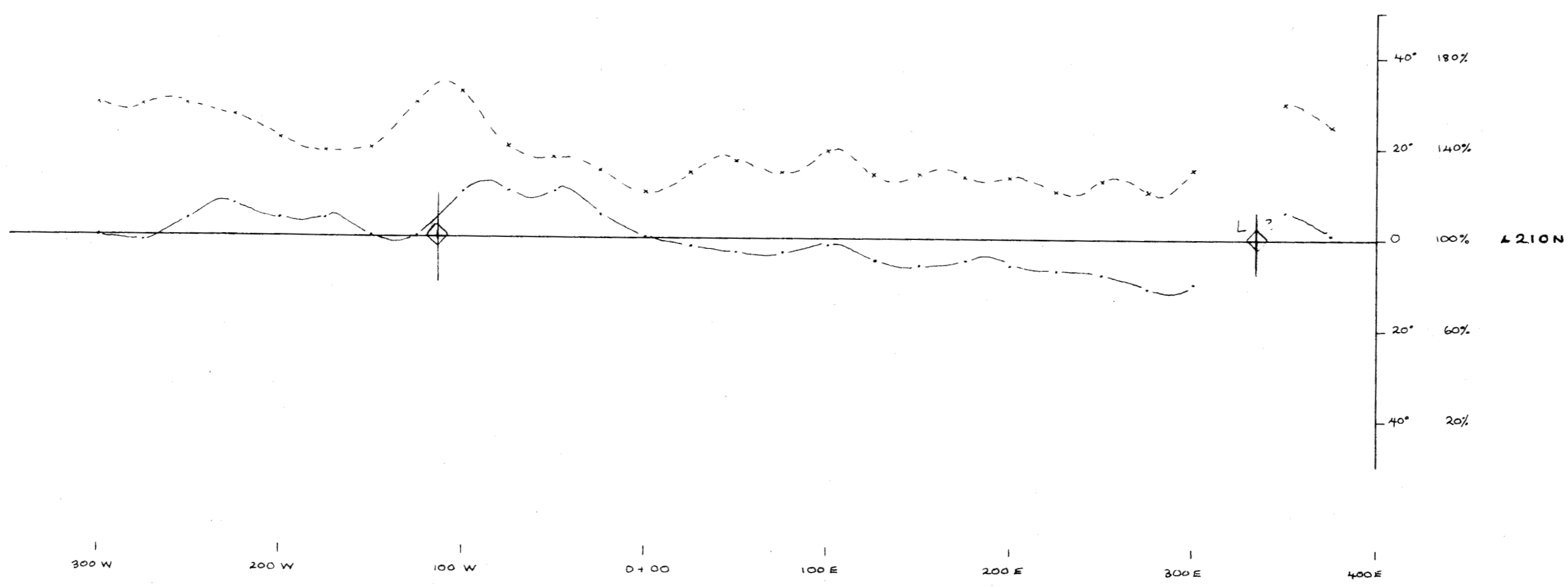
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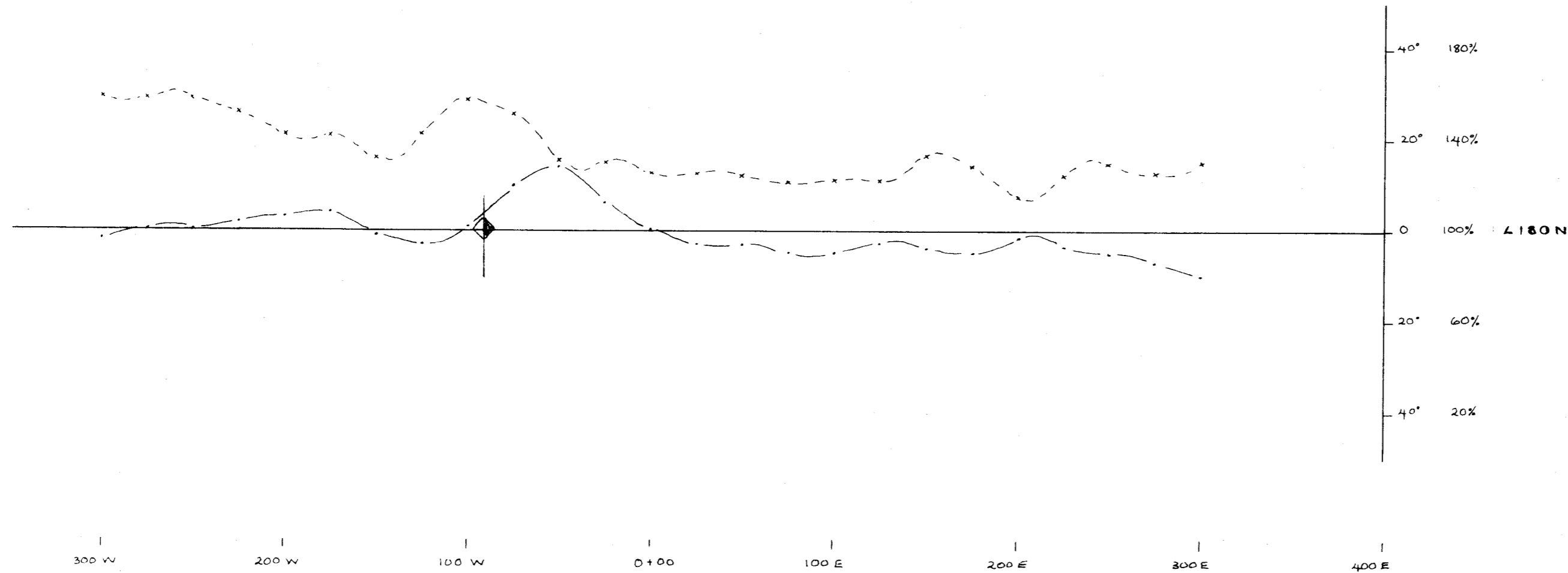
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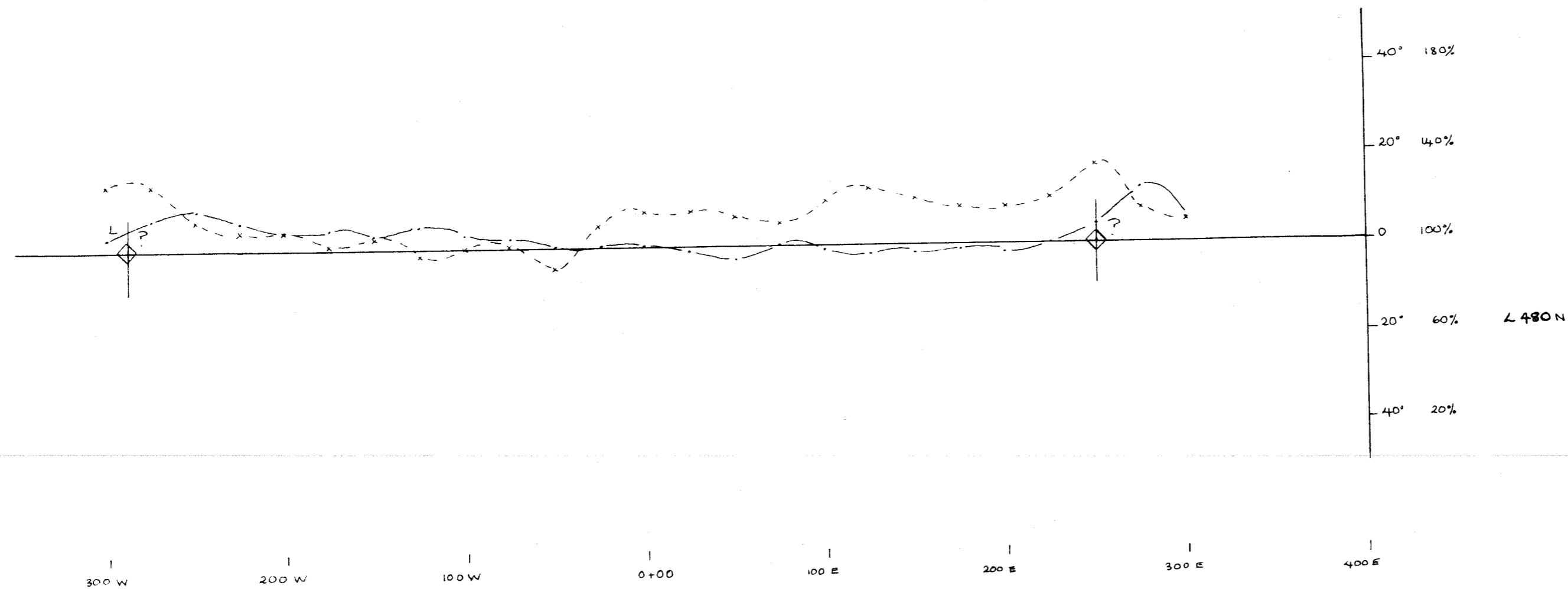
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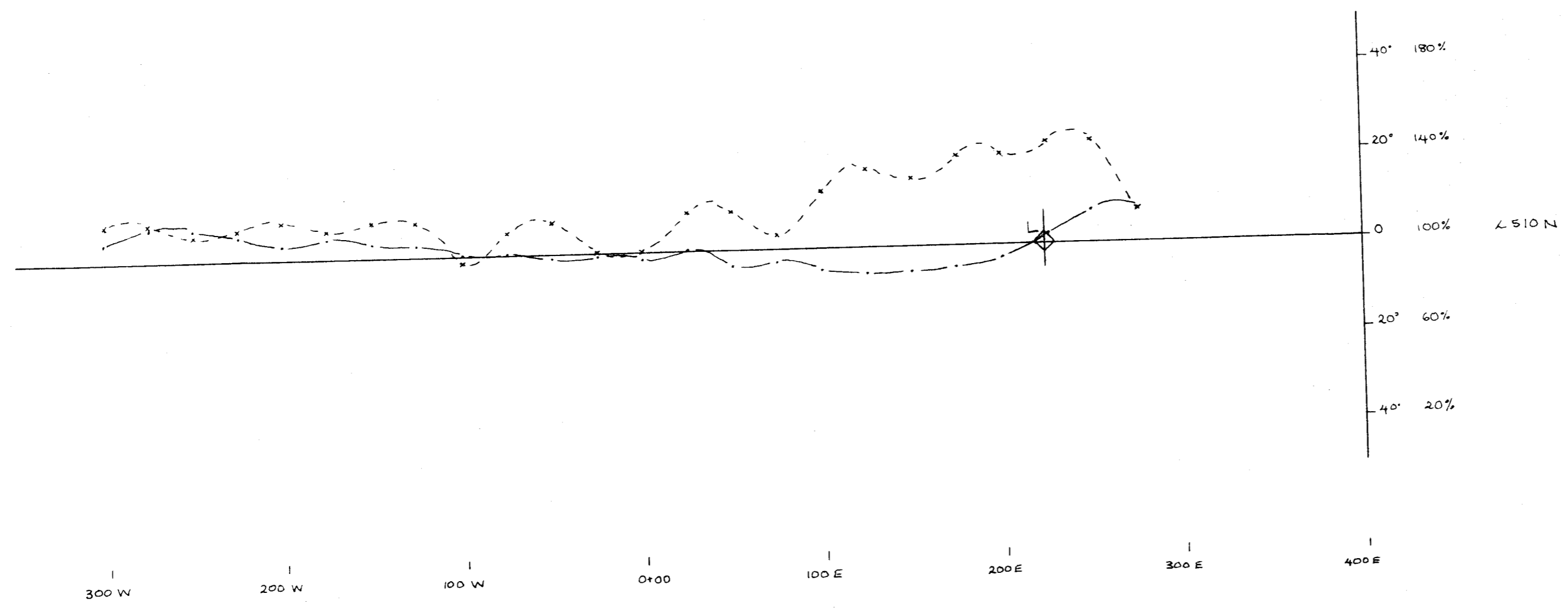
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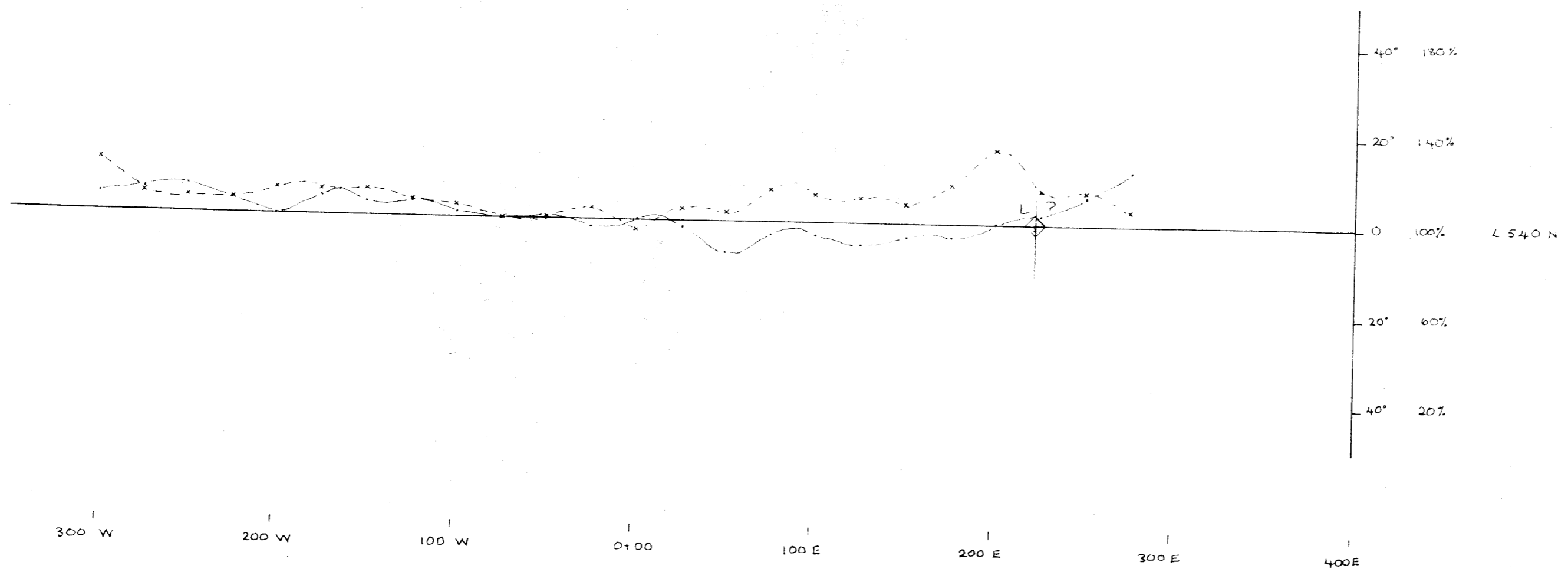


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13,920

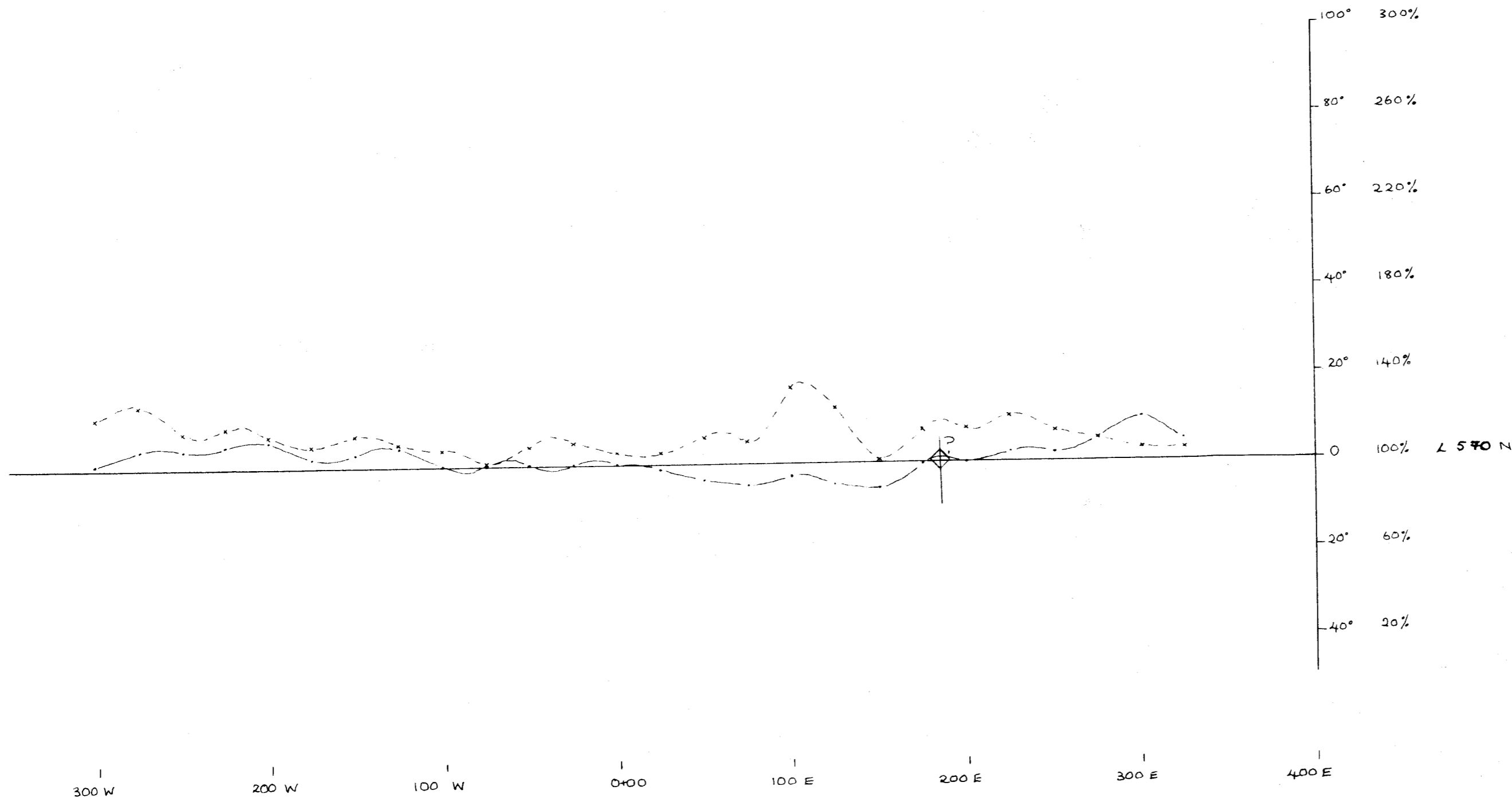
PROFILE SECTION OF FIELD DIP ANGLE  
AND HORIZONTAL FIELD STRENGTH

SCALE 1 : 2500

DIP ANGLE PROFILE  
SCALE 1cm = 10°

FIELD STRENGTH PROFILE  
SCALE 1cm = 20%

TRANSMITTER SITE: ANNAPOLIS



VLF  
ELECTROMAGNETIC  
SURVEY  
on  
WINDFLOWER  
OPTION

by


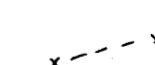
GRANGES  
EXPLORATION LTD  
VANCOUVER, BC

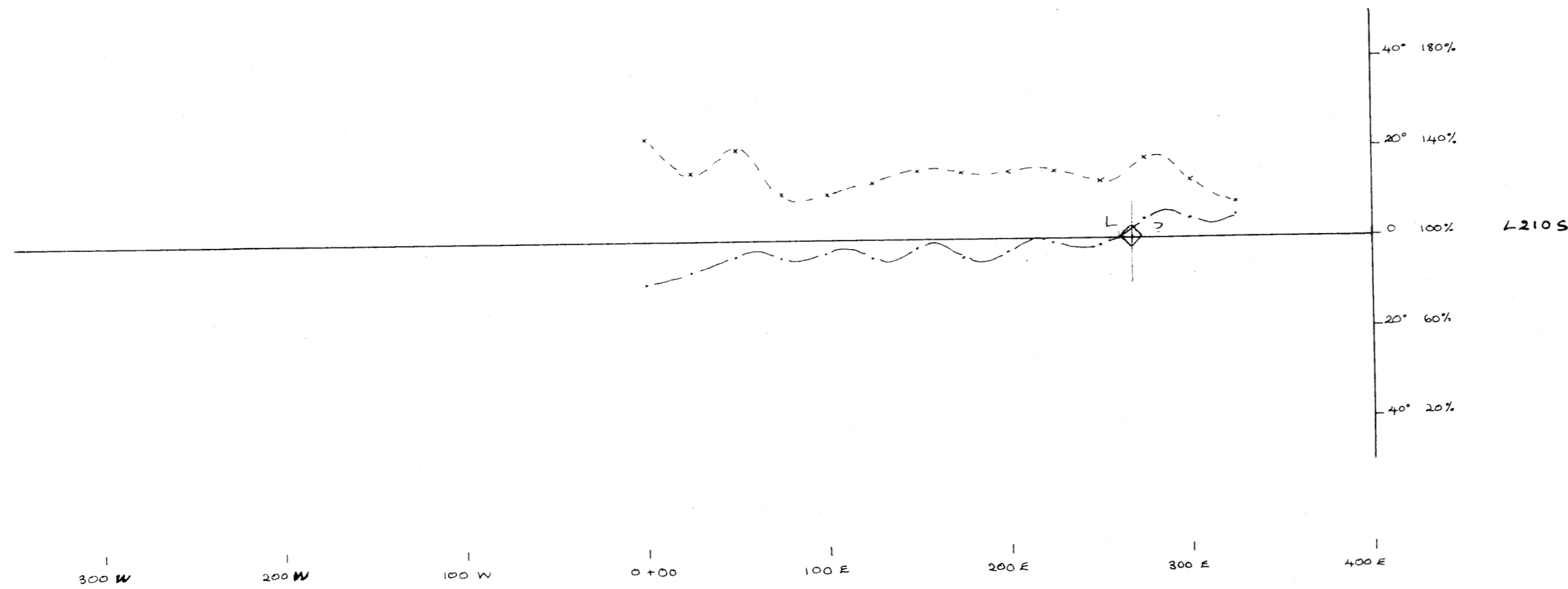
**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**13,920**

SECTION OF FIELD DIP ANGLE  
AND HORIZONTAL FIELD STRENGTH

SCALE 1: 2500

-  DIP ANGLE PROFILE  
SCALE 1cm = 10°
  -  FIELD STRENGTH PROFILE  
SCALE 1cm = 20%
- TRANSMITTER SITE: ANNAPOLIS



VLF  
ELECTROMAGNETIC  
SURVEY  
on

WINDFLOWER

OPTION

by

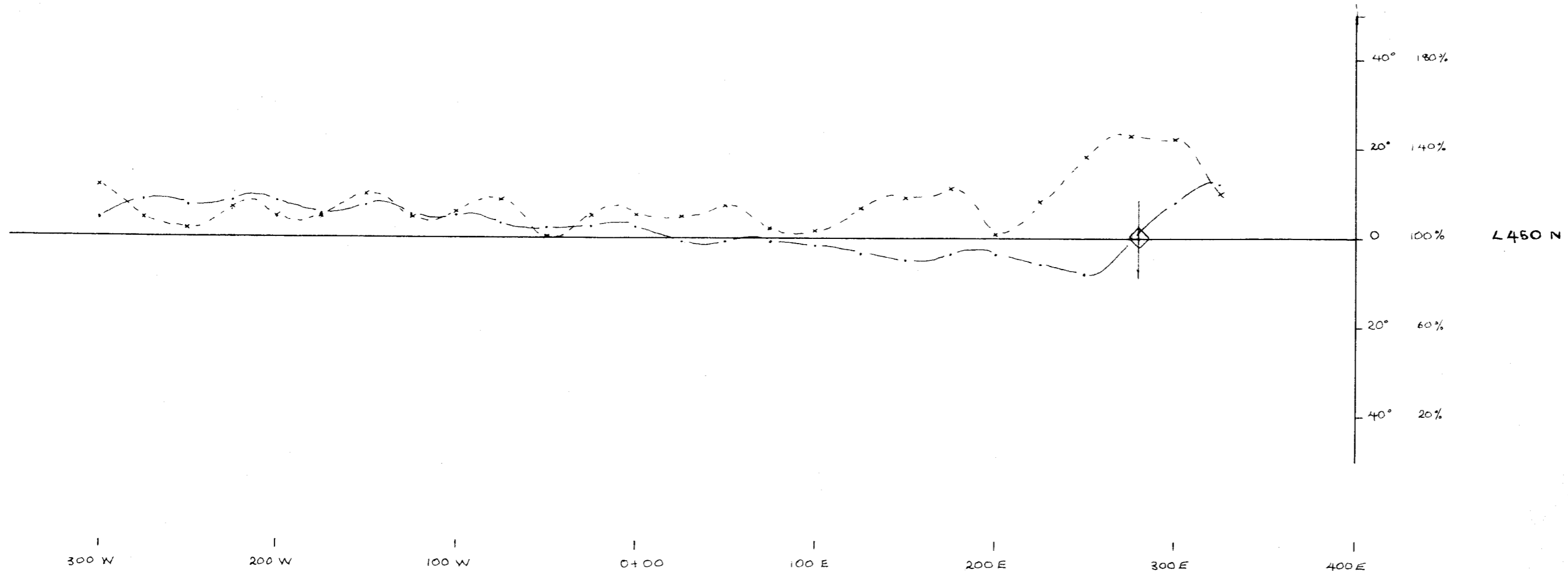
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VANCOUVER, BC

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

13,920



PROFILE SECTION OF FIELD DIP ANGLE  
AND HORIZONTAL FIELD STRENGTH

SCALE 1: 2500

—•— DIP ANGLE PROFILE

SCALE 1cm = 10°

- - x - - FIELD STRENGTH PROFILE

SCALE 1cm = 20%

TRANSMITTER SITE: ANNAPOLIS

VLF  
ELECTROMAGNETIC  
SURVEY  
on

WINDFLOWER

OPTION

by

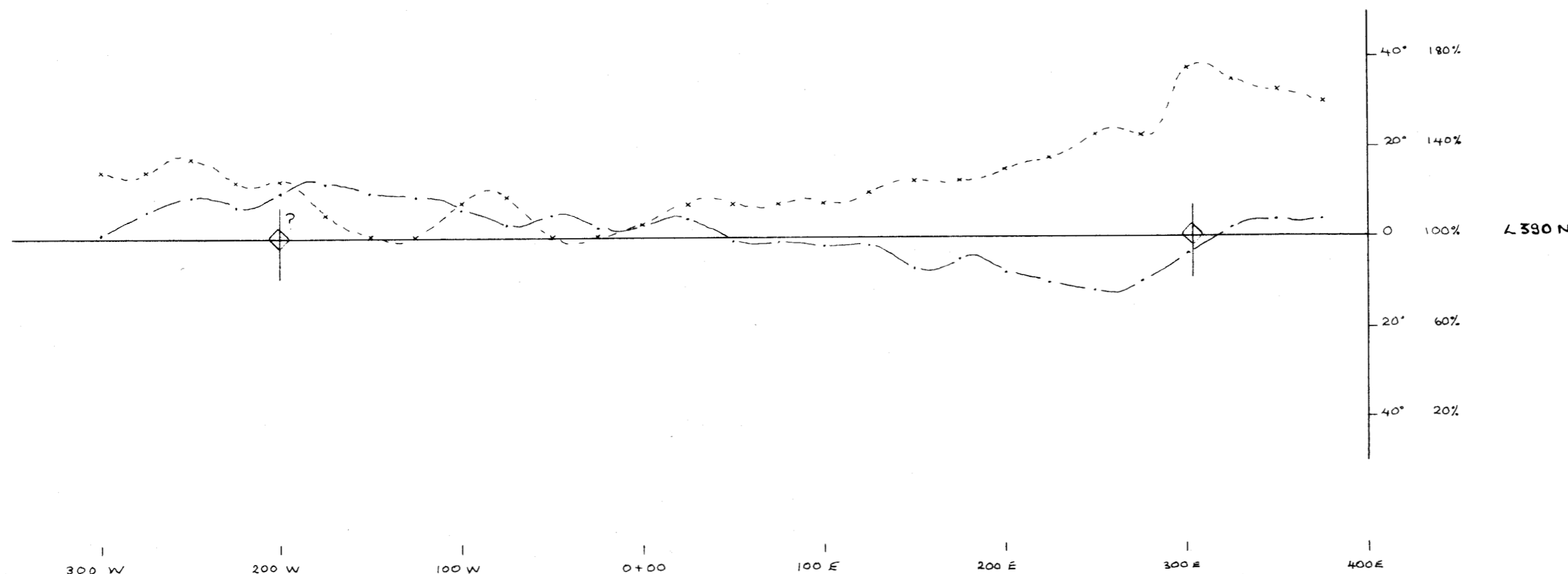
GRANGES

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GEOLOGICAL BRANCH  
ASSESSMENT REPORT

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PROFILE SECTION OF FIELD DIP ANGLE  
AND HORIZONTAL FIELD STRENGTH

SCALE 1: 2500

— DIP ANGLE PROFILE  
SCALE 1cm = 10°

- - - x FIELD STRENGTH PROFILE  
SCALE 1cm = 20%

TRANSMITTER SITE: ANNAPOLIS



VLF  
ELECTROMAGNETIC  
SURVEY  
on

WINDFLOWER

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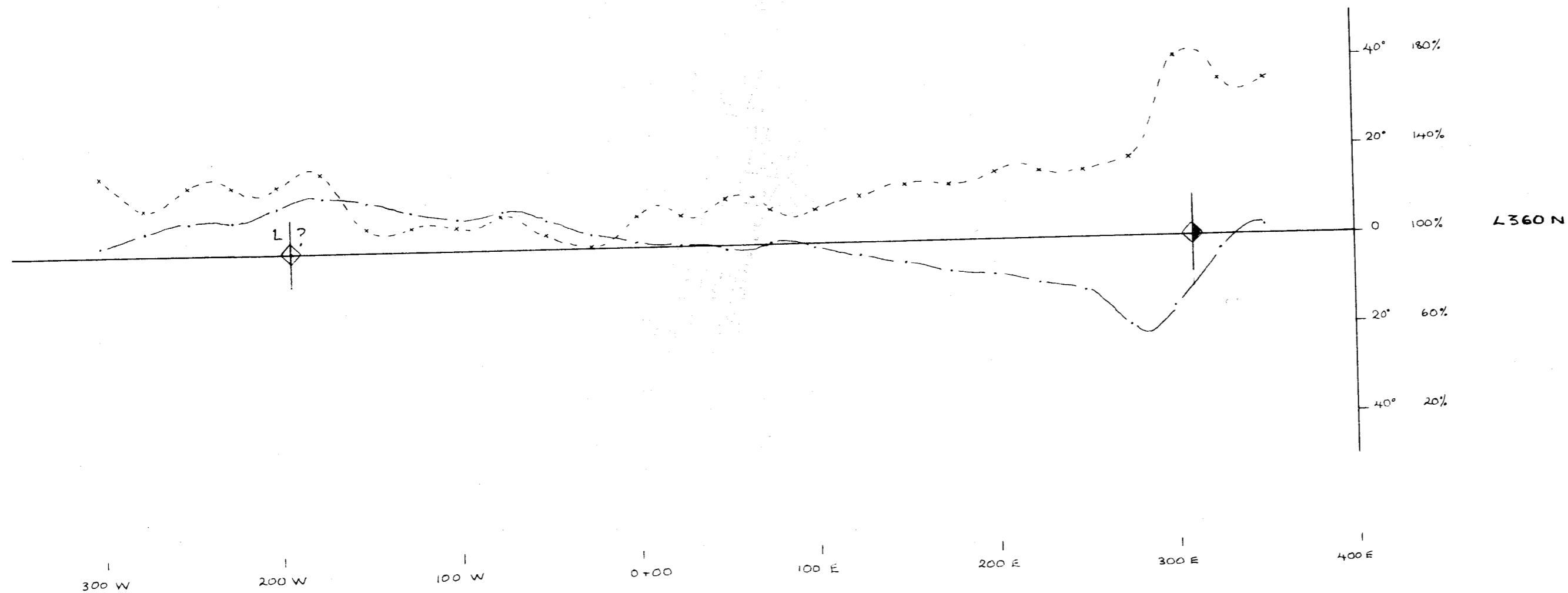
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GEOLOGICAL BRANCH  
ASSESSMENT REPORT

13,920



PROFILE SECTION OF FIELD DIP ANGLE  
AND HORIZONTAL FIELD STRENGTH

SCALE 1: 2 500

— DIP ANGLE PROFILE  
SCALE 1cm = 10°

- - - x FIELD STRENGTH PROFILE  
SCALE 1cm = 20%

TRANSMITTER SITE: ANNAPOLIS

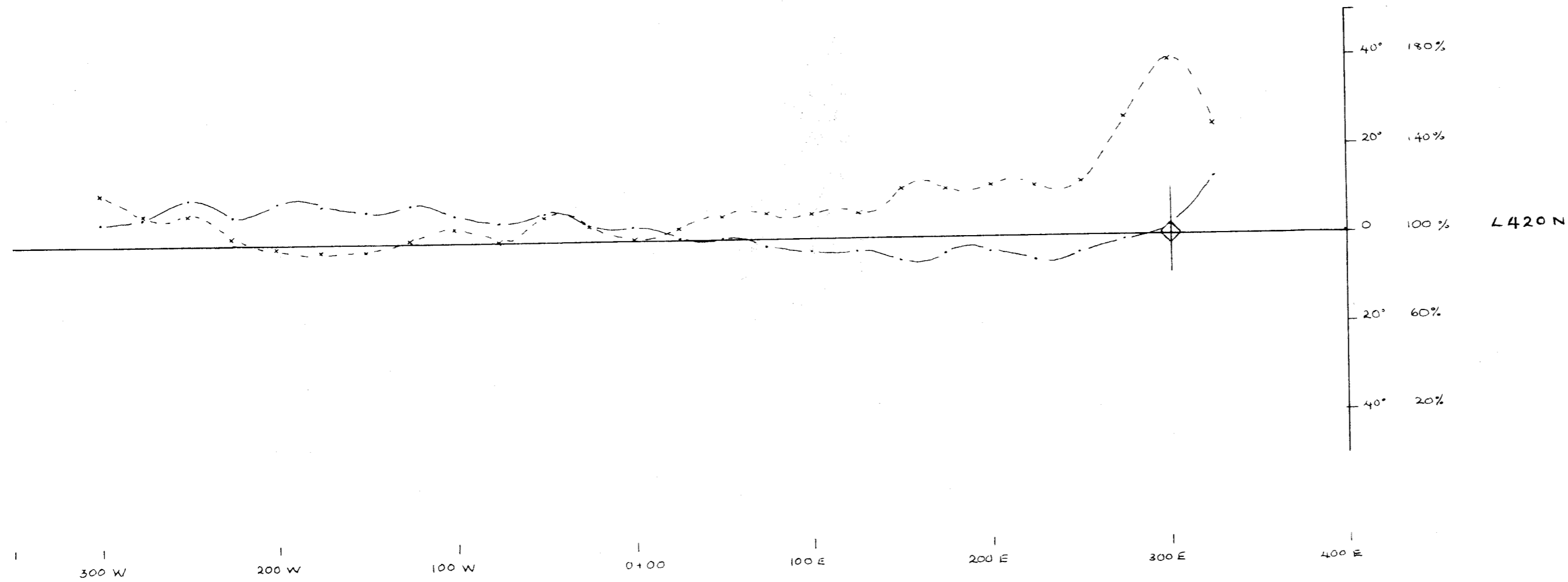
VLF  
ELECTROMAGNETIC  
SURVEY  
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GRANGES  
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GEOLOGICAL BRANCH  
ASSESSMENT REPORT

13,920

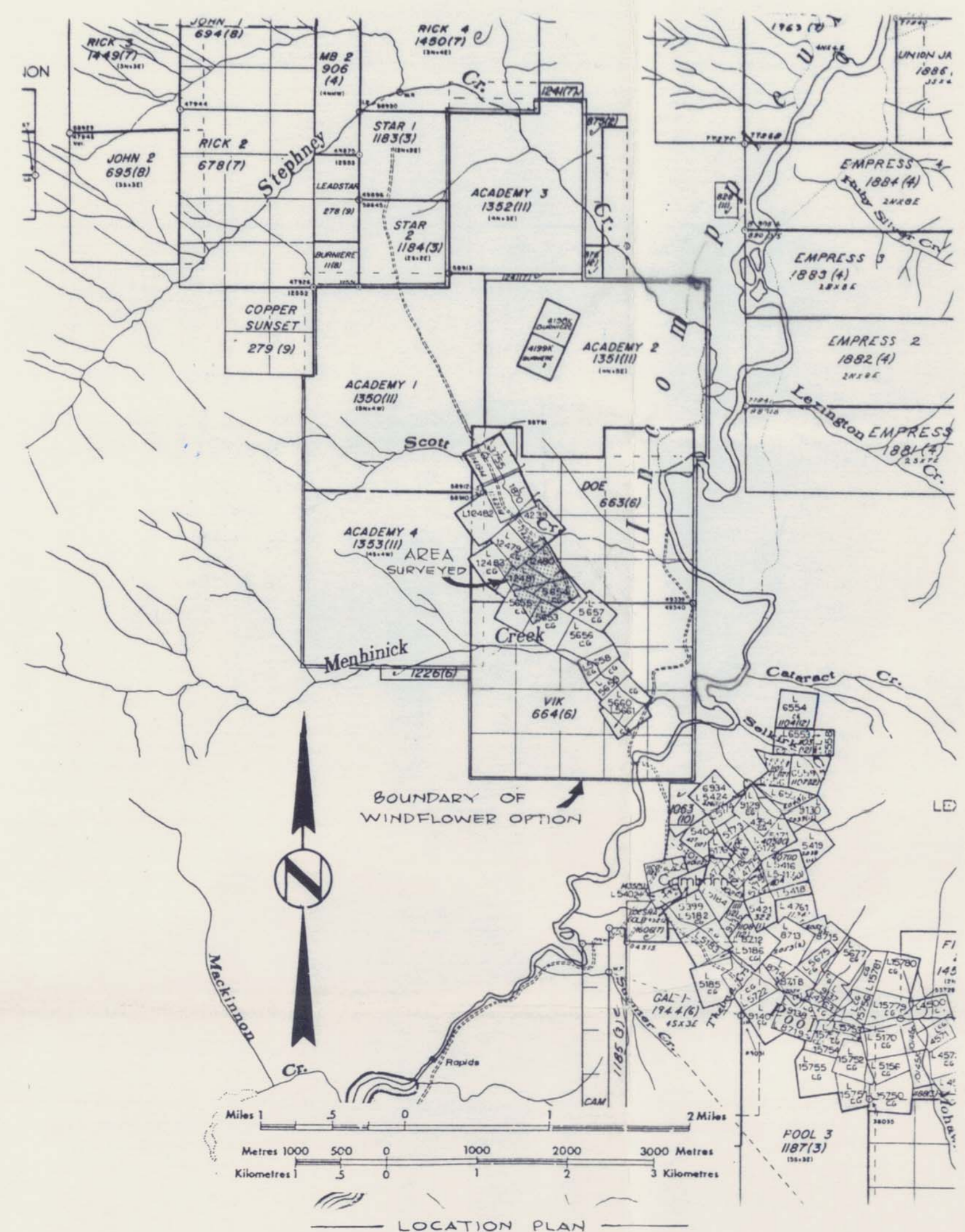


PROFILE SECTION OF FIELD DIP ANGLE  
AND HORIZONTAL FIELD STRENGTH

SCALE 1: 2500

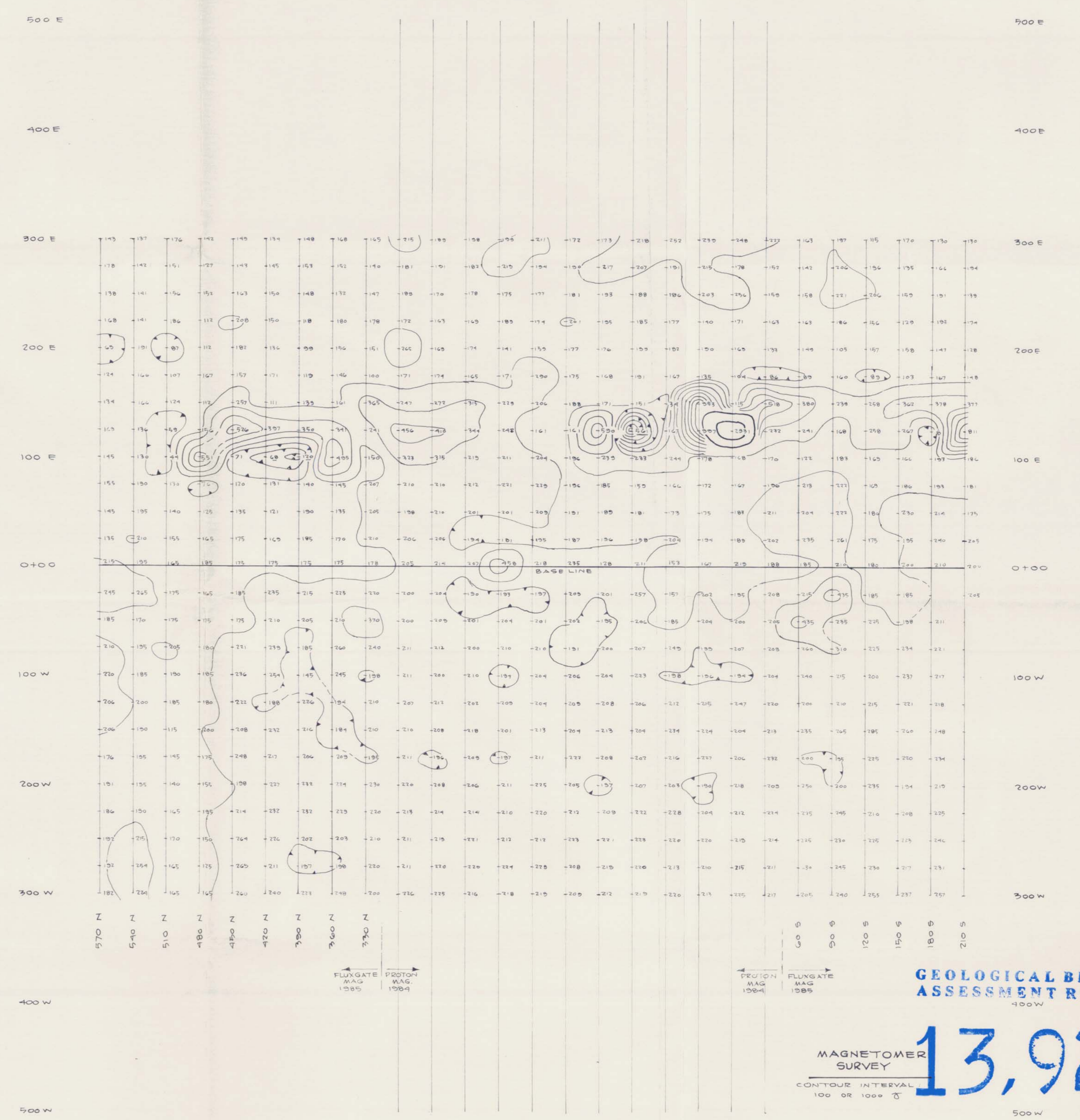
- DIP ANGLE PROFILE  
SCALE 1cm = 10°
- x-x- FIELD STRENGTH PROFILE  
SCALE 1cm = 20%

TRANSMITTER SITE: ANNAPOLIS



**KEY**

- Indicates locations shown by hill angle and field strength components are not coincidental.
- FIRST PRIORITY ANOMALY
- SECOND PRIORITY ANOMALY
- THIRD PRIORITY ANOMALY
- DOUBTFUL ANOMALY



**GEOLOGICAL BRANCH ASSESSMENT REPORT**

**MAGNETOMETER SURVEY**  
 13,920  
 CONTOUR INTERVAL 100 OR 1000 G

SURVEYED BY S. WELLES & TAYLOR  
 AUG. 10 - SEPT. 11, 1985  
 DRAWN BY: M.P.  
 DATE: SEPT. 1985

**GRANGES EXPLORATION LTD.**  
 VANCOUVER, B.C.

PLAN OF  
 MAGNETIC & VLF ELECTROMAGNETIC SURVEYS  
 WINDFLOWER OPTION  
 TROUT LAKE AREA  
 REVELSTOCK MINING DIVISION, B.C.

SCALE: 1:2500  
 PROJECT No: 224  
 N.T.S. No: 83 K-13 E