University of Illinois Foundation v. Blonder Tongue v. JFD

Depositions 10/24/66
FOUNDATION EXHIBITS

U-1	Dart antenna
U-1a	Hardware (bag)
U-2	Instruction Sheet for Exhibit 1
U-3	Golden Arrow
U-3a	Mounting hardware - Golden Arrow
U-4	Golden Arrow instruction sheet
U-5	Golden Arrow carton
U-6	Manufacturing drawing-wire forms - Dart Earlier SK0527
U-7	Manufacturing drawing-wire forms - Dart Later MD-1551-6
U-8	Manufacturing drawing - wire forms - Arrow MC-1658-C
U-9	Schenfeld notebook No. 4
U-10	Wickert letter to Tongue - 7/25/66

University of Illinois Foundation v. Blonder Tongue v. JFD

Depositions 10/24/66
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U-8	Manufacturing drawing - wire forms - Arrow	MC-1658-C
U-9	Schenfeld notebook No. 4	
U-10	Wickert letter to Tongue - 7/25/66	

University of Illinois Foundation v. Blue Sky Tongue v
JPD

~~Pltf's Ex.~~ Depositions 10/24/66 —

Foundation Exhibits

U - 1 - Dorst engineering drawing — U-1a Hardware (bag)
U 2 - Dorst Cross Section for Ex 1
U 3 Golden Arrow
U 3a — Mounting hardware Golden Arrow
U 4 - Golden Arrow inst. sheet.
U 5 - " " carton
U 6 - Mfg drawing wireforms Dorst Sales SK0527
U 7 " " " " " Sales MD-1551-6
U 8 " " " Arrow MC-1658-C
U 9 Schenfeld notebook
U 10 Wichert letter to Tongue - 7/25/66 -

November 3, 1966

Mr. Myron C. Cass
Silverman & Cass
105 West Adams Street
Chicago, Illinois 60603

RE: UIF v. BT v. JFD

Dear Mike:

* I enclose copies of the following Blonder Tongue drawings:

Drawing No.	Deposition Exhibit No.
SK-0527	U-6
MD-1551-6	U-7
MC-1658-C	U-8

Very truly yours,

Richard S. Phillips

RSP:iag

* Enclosures

July 25, 1966

Mr. Ben H. Tongue
Blonder-Tongue Laboratories, Inc.
9 Alling Street
Newark, New Jersey

UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF ILLINOIS
BEFORE JUDGE HOFFMAN
DEFENDANT EX. NO.
DOROTHY L. BRACKENBURY
OFFICIAL COURT REPORTER

Dear Mr. Tongue:

Subject: University of Illinois Log Periodic Antenna Patents.

I am sorry that I have been unable to reach you by phone during the past two weeks. The purpose of my calls has been to confirm the information that I believe you may already have concerning the availability of licenses under the University of Illinois Foundation antenna patents and patent applications.

Our exclusive agreement with our licensee is limited specifically to the field of receiving antennas for television and frequency modulation (FM) broadcasting stations and antennas for amateur and citizen's band transmission and reception. Our licensee has the right to and has agreed to sublicense within this field and would be happy to discuss terms and conditions for such sublicense. In all other fields, non-exclusive licenses can be obtained directly from us. We would also be happy to discuss terms with you in this connection. In order that you may have ready access to the specific patents that have issued, I have enclosed a schedule of these issued patents. The various patent applications can be discussed in connection with a discussion of terms.

University Patents, Inc. is an affiliate of the University of Illinois Foundation and is charged with the responsibility of handling all of the University's patent assets and programs.

Very truly yours,

Emil W. Wickert
Vice President

EWW/bem
Enclosure

Ex U-10

July 25, 1966

Mr. Ben N. Tongue
Blonder-Tongue Laboratories, Inc.
9 Alling Street
Newark, New Jersey

Dear Mr. Tongue:

Subject: University of Illinois Log Periodic Antenna Patents.

I am sorry that I have been unable to reach you by phone during the past two weeks. The purpose of my calls has been to confirm the information that I believe you may already have concerning the availability of licenses under the University of Illinois Foundation antenna patents and patent applications.

Our exclusive agreement with our licensee is limited specifically to the field of receiving antennas for television and frequency modulation (FM) broadcasting stations and antennas for amateur and citizen's band transmission and reception. Our licensee has the right to and has agreed to sublicense within this field and would be happy to discuss terms and conditions for such sublicense. In all other fields, non-exclusive licenses can be obtained directly from us. We would also be happy to discuss terms with you in this connection. In order that you may have ready access to the specific patents that have issued, I have enclosed a schedule of these issued patents. The various patent applications can be discussed in connection with a discussion of terms.

University Patents, Inc. is an affiliate of the University of Illinois Foundation and is charged with the responsibility of handling all of the University's patent assets and programs.

Very truly yours,

Emil W. Wickert
Vice President

EWW/bcm
Enclosure

Ex U-10

October 24, 1966

Mr. I. Irving Silverman
Silverman & Cass
105 West Adams Street
Chicago, Illinois 60603

RE: University of Illinois Foundation
v. Blonder-Tongue Laboratories
v. JFD Electronics Corporation

Dear Mr. Silverman:

This supplements our letter of October 7, 1966, in connection with the depositions of Prof. Mayes and Mr. Finkel to be taken on October 24. We request that you produce:

1. Copies of all advertisements, circulars, catalogs, news releases, brochures, instructions to distributors and salesmen, memoranda, and other writings dealing with log-periodic antennas manufactured by JFD under its license from University of Illinois Foundation under Isbell 3,210,767 and/or Mayes et al Re.25,740 (hereinafter, "said patents") and the patent applications that matured into said patents.

2. Copies of all correspondence, documents, and other writings between University of Illinois and/or University of Illinois foundation and JFD and others relating to all license agreements under said patents, all negotiations for such licenses and the administration of such licenses, including but not limited to, the policing of said patents by way of suits against alleged infringers of the patent in suit including Blonder-Tongue.

Not to Purchase any items no negot. for license

3. Copies of all correspondence, memoranda, documents and other writings relating to the authorization of JFD to use the name of any and all of University of Illinois, University of Illinois Foundation, the inventor of said patents or other employees of University of Illinois and University

of Illinois Foundation in connection with log-periodic antennas, advertisements relating thereto and said patents.

4. Copies of all correspondence, documents and other writings relating to the hiring by JFD of the former Blonder-Tongue antenna department manager.

5. Any employment contract with such former manager.

6. Copies of the drawings of all JFD log-periodic antennas embodying the invention of said patents together with the dates that such antennas were first manufactured including but not limited to JFD antenna models set forth in paragraph 14 of the counterclaim herein. (LPV-VM18, 15, 12, 9 and 6, LPV-TV 19, 16, 13 and 10)

In addition we wish:

7. Any employment agreement between Paul Mayes and JFD.

8. Any other agreement between Paul Mayes and JFD relating to the antennas manufactured by JFD.

Blonder-Tongue has no objection to the addition to the lawsuit of Mayes et al Re.25,740 provided the University of Illinois Foundation and JFD agree that any Blonder-Tongue patent which issues subsequently hereto may also be added.

Very truly yours,

Richard S. Phillips

RSP:iag

cc: Mr. William A. Marshall
Mr. Robert H. Rines

JFD

Data for gain curves of B53 +
names of parties who took data -

123900001 - part drawing - and
Documents re purchase + sale of B7 Ent. to JICD Lab.

Mayer - check for meeting re mag and +
pictures in ads -

To get from UTF

log periodic
Isbell reports re early antenna work -
Published article re log periodic antenna.

Research & copies of all papers NB thereon &
both & texts of linear log periods. Also Mayes
Arnold.

Inventions disclosures & Patent Comm. re
re Isbell 3,210,767
3,108,280 (RE 25,740)

Universities document

Photographs of antennas developed by Mayes &
bearing on 3,108,280 - as they existed prior to
10/31/62 & (if any) subsequent to
Check Foundation files -

Agreement between UIF and Prof Mayes

Identify technicians

Any Foundation writing re grant -

Ex A to agreement & B ~~2~~ - if any.

UI

Survey of ~~contractors~~ application of log-
periodic antennas. Mayes questionnaire
Employment agreement

JFD

Data for gain curve of B3J &
name of parties who took data -

123900.0001 - part drawing - amplifier

Documents re purchase & calls for B7 ext. to JFD lab.

Maps - check for medley receiving area & pictures in ads -

October 28, 1966

VIA AIR MAIL

Mr. Robert H. Rines
c/o Mr. Isaac S. Blonder
Blonder Tongue Laboratories Inc.
9 Alling Street
Newark, New Jersey 07102

Dear Bob:

* I enclose the material which was produced on behalf of JFD after you left this morning. I did not keep copies in our file. The letters are divided into three groups, one relating to the approval and disapproval of advertising, a second relating to the Foundation news releases, and a third relating to suits against infringers. I also enclose copies
* of advertising material supplementing the duplicate originals you already have.

Cass put several qualifications on the material which he turned over to me. These are as follows:

1. We have all correspondence relating to approved ad copy or ad copy which was used by JFD without approval and to which the Foundation objected. We do not have correspondence relating to advertising material proposed by JFD, objected to by the Foundation and not used.

2. There were no JFD news releases.

3. With regard to suits against other infringers, they have given us copies of the letters from JFD to the Foundation and letters from the Foundation advising of the filing of suits. They will not supply, without a court order, correspondence relating to infringement allegations by parties who have not been sued or relating to pending lawsuits.

4. The last category which we had requested is as follows: "any other questions or relationships between the parties with respect to the licenses". JFD objects to this characterization as too broad and indefinite and will not produce anything further along this line without a court order. I think I can draft some additional specific areas of inquiry which relate directly to the allegations of the counterclaim. Your examination of Mr. Finkle may suggest other specific areas of inquiry. After you have completed your examination of Finkle, we can discuss how much more you would like to try for along this line.

I will send on to you when they are completed the various lists of exhibits, information to be produced, and the like. I wanted to get the enclosed material into the mail as soon as possible so that you would be sure to have it on Tuesday.

Sincerely yours,

Richard S. Phillips

RSP:iag

* Enclosures

Case 10/28/65

1). All re approval & disapproval of.
Have been discussions re eds which
did not appear — don't get

2. — No JPD news release

3 — None

4 - Orig. notices from JPD to UIP of any
to those any which have been sent —
None - Not relevant —
No notices between JPD & UIP are pending
Lawsuits —

5 Nos — None to prove need —

All correspondence, documents and other writings between JFD and the University of Illinois and/or the University of Illinois Foundation or others with respect to the relationship between the parties to the license, including

the approval or disapproval of advertising matter or other literature

news releases by University of Illinois Foundation

news releases by JFD

prosecution of infringers

notices relating to breach

any other questions or relationships between the parties with respect to the licenses;

Excepting - Royalty reports.

10/27/66

Handed to Cox - OK

RSP

All correspondence, documents and other writings between JFD and the University of Illinois and/or the University of Illinois Foundation or others with respect to the relationship between the parties to the license, including

the approval or disapproval of advertising matter or other literature

news releases by University of Illinois Foundation

news releases by JFD

prosecution of infringers

notices relating to breach

any other questions or relationships between the parties with respect to the licenses;

Excepting - Royalty reports.

administration of licenses - make more dynamic

Royalty report. NO

Policy - OK

3. - OK

4. OK - None yet - Berlin looking for -

5 - OK - looks -

6 - OK

7 - OK - Kurt.

All ~~documents~~ correspondence, documents and the writings between, the University of Illinois and/or the University of Illinois Foundation, JPD and/or others relating to the with respect to the relationship between the parties to the license including, ~~but not limited to,~~ the

the approval or disapproval of advertising matter or other literature

~~the Agency~~

News release by UIF

news release by JPD

Prosecution of infringers

Notices reliably to Kraeb - between the parties

any other questions or relationships with respect to the licenses

Existing - Royalty reports

October 28, 1966

Mr. James J. Costello
Legal Counsel
University of Illinois
258 Administration Building
Urbana, Illinois

Dear Mr. Costello:

In accordance with our telephone conversation, I have prepared subpoenas identifying the material we wish and have mailed them directly to Prof. Mayes and Mr. Porter. Copies are enclosed for your information. If there is any question regarding the identification of the material requested from Prof. Mayes, please call me.

Very truly yours,

Richard S. Phillips

RSP:iag

Enclosures

cc: Prof. Paul E. Mayes
Mr. Earl W. Porter
Mr. Robert H. Rines
Mr. Basil P. Mann
Mr. Myron C. Case

CIVIL SUBPOENA TO PRODUCE DOCUMENT OR OBJECT — D. C. Form No. 48 (Rev. 2-57)

United States District Court

FOR THE

NORTHERN DISTRICT OF ILLINOIS

THE UNIVERSITY OF ILLINOIS FOUNDATION,
Plaintiff & Counterclaim Defendant,
- v -
BLONDER-TONGUE LABORATORIES INC.,
Defendant & Counterclaimant,
- v -
JFD ELECTRONICS CORPORATION,
Counterclaim Defendant.

CIVIL ACTION FILE NO. .....

No. 66 C 567

TO: Earl W. Porter
Secretary of the Board of Trustees
of the University of Illinois
Administration Building
University of Illinois
Urbana, Illinois

YOU ARE HEREBY COMMANDED to produce for inspection and copying at the offices of Merriam, Marshall, Shapiro & Klose, 30 West Monroe Street, Chicago, Illinois:

Employment agreements between the University of Illinois and Robert L. Carrel, Dwight E. Isbell and Paul E. Mayes.

October 28, 19 66.

Hofgren, Wegner, Allen, Stellman & McCord
Attorney for Blonder-Tongue Laboratories, Inc.
20 North Wacker Drive,
Address Chicago, Ill. 60606

Robert C. Wagner Jr., *Clerk.*
By William E. Kuby, *Deputy Clerk.*

RETURN ON SERVICE

Received this subpoena at on
and on at
served it on the within named
by delivering a copy to h and tendering to h the fee for one day's attendance and the mileage allowed by law.[1]

Dated:
....., 19.....

.....,
By.....

Service Fees
Travel .....$
Services .....
Total .....$

Subscribed and sworn to before me, a this
day of , 19 .

.....

[1] Fees and mileage need not be tendered to the witness upon service of a subpoena issued in behalf of the United States or an officer or agency thereof. 28 USC 1825.

NOTE.—Affidavit required only if service is made by a person other than a United States Marshal or his deputy.

CIVIL SUBPOENA TO PRODUCE DOCUMENT OR OBJECT — D. C. Form No. 48 (Rev. 2-57)

United States District Court

FOR THE

NORTHERN DISTRICT OF ILLINOIS

CIVIL ACTION FILE NO. 660-567

THE UNIVERSITY OF ILLINOIS FOUNDATION,
Plaintiff & Counterclaim Defendant,
vs.
BLONDER-TONGUE LABORATORIES, INC.,
Defendant & Counterclaimant,
v.
JFD ELECTRONICS CORPORATION,
Counterclaim Defendant.

No.

TO: Paul E. Mayes
Room 455, Electrical Engineering Bldg.
University of Illinois
Urbana, Illinois

YOU ARE HEREBY COMMANDED to ~~appear in the United States District Court for the~~ produce for inspection and ~~District of~~ copying at the offices of ~~at the city of at the day of 19 at o'clock M. to~~ ~~testify on behalf of~~ Merriam, Marshall, Shapiro & Klose, 30 West Monroe Street, Chicago, Illinois: ~~in the above entitled action and bring with you~~

1. Photographs of antennas developed by Mayes, Carrel, Isbell or others at the University of Illinois Antenna Laboratory relating to the disclosures of U.S. patents 3,108,280 or 3,210,767 as they existed prior to October 31, 1962, and (if any) subsequent thereto. These photographs should include all photographs of television antennas assembled by Mayes, Carrel or others using the funds granted to them by the University of Illinois Foundation.

2. A copy of the results of the survey of applications of log periodic antennas.

October 28, 1966.

Hofgren, Wegner, Allen, Stellman & McCord
Blonder-Tongue Laboratories, Inc.
Attorney for

20 North Wacker Drive
Address Chicago, Ill. 60606

Robert A. Wagner Jr.
Clerk.

By William E. Kelley
Deputy Clerk.

RETURN ON SERVICE

Received this subpoena at on
and on at
served it on the within named
by delivering a copy to h and tendering to h the fee for one day's attendance and the mileage allowed by law.[1]

Dated:
....., 19.....

....., ...

By.....

Service Fees
Travel .....$
Services .....
Total .....$

Subscribed and sworn to before me, a this
day of , 19 .

.....

[1] Fees and mileage need not be tendered to the witness upon service of a subpoena issued in behalf of the United States or an officer or agency thereof. 28 USC 1825.

NOTE.—Affidavit required only if service is made by a person other than a United States Marshal or his deputy.

10/31/62

James J Carroll

258 Admin. Bldg.

Urbana

Ph - 333-0562

1). Photographs of antennas or antennae developed by Mayes, Carroll, Schiller or others relating to the declaration of 3,108,280 or 3,210,767 or the expected prior to 10/31/62 (if any) subsequent thereto

In the light photographs of antennas or antennae made by Mayes, Carroll or others will [illegible] from U of I.

2) Surveys, applications, log periodic antennas

3). Employment agreements between U/I and Carroll

Mayes.

Sec/Bd of Trustees of the Univ. of Ill.

Porter

Urbana Bldg

Room 455 Electrical Eng. Bldg.

LAW OFFICES
Silverman & Cass
PATENTS · TRADEMARKS · COPYRIGHTS
105 W. ADAMS STREET · CHICAGO, ILLINOIS, U.S.A. 60603
TELEPHONE 726-6006
AREA CODE 312
CABLE: SILCAS

I. IRVING SILVERMAN
MYRON C. CASS
SIDNEY N. FOX

JAMES L. KNIGHT
GERALD R. HIBNICK, IND. BAR

October 31, 1966

Mr. Richard S. Phillips
Hofgren, Wegner, Allen, Stellman & McCord
20 North Wacker Drive
Chicago, Illinois, 60606

Re: 66 C 567 - UIF vs BT vs JFD

Dear Mr. Phillips:

We are enclosing herewith copies of the test data involving the design of the LPV VU 18. This material comprises the test sheets given to Dr. Mayes by JFD Laboratories at Champaign for transmittal to the attorneys of JFD and presented to you at the deposition of Dr. Mayes.

An identical set of copies is being transmitted to Mr. Mann, attorney for the University of Illinois Foundation.

Very truly yours,

SILVERMAN & CASS

Sidney N. Fox

SNF:MH
Encl.

JFD RESEARCH AND DEVELOPMENT LABORATORIES, INC.

714½ South Randolph Street, Champaign, Illinois

Subsidiary of: JFD ELECTRONICS CORPORATION

PATTERN MODEL LOG PERIODIC VLPV-18 L

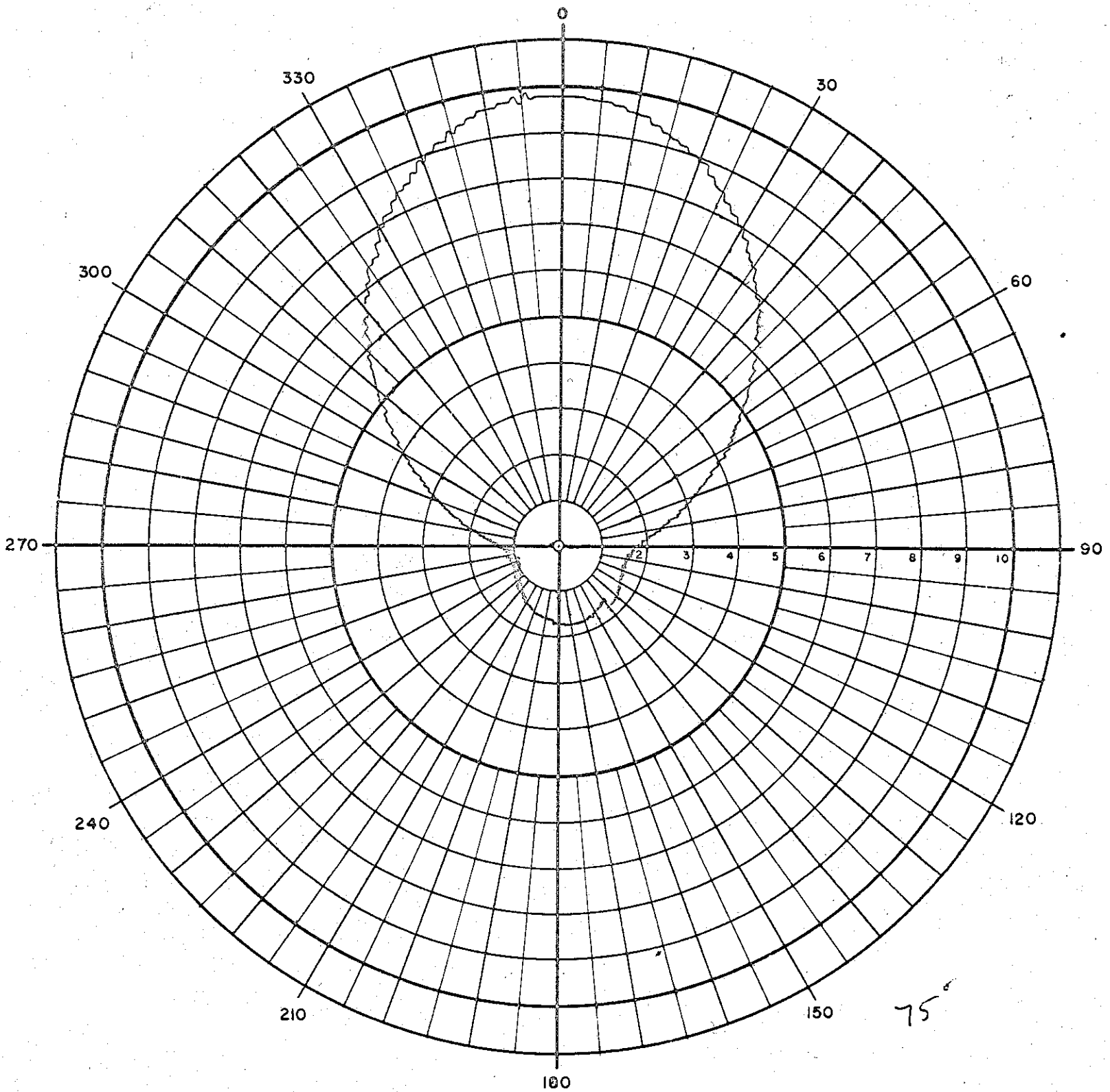
T = _____ s = _____ α = _____ N = _____ h_1 = _____ z_o = _____ ψ = _____

Termination _____

Frequency	f_n	E - Plane		H - Plane		BW	BW	$BW_E \times BW_H$	$D=\frac{41250}{BW_E BW_H}$	D(db) = $10 \log_{10} D$
		E	E - X	H	H - X	E	H			
52		✓				75				
54		✓				78	122			6.40
60		✓				73	9			
66		✓				75	128			6.30
72		✓				75	120			6.55
78		✓				78	129			6.30
82		✓				68	140			6.30
84		✓								
86		✓								
88		✓				78	126			6.20
90		✓								
166		✓								
170		✓								
174		✓				35	124			9.75
176		✓				31	130			10.10
180		✓				29	131			10.40
186		✓				30	82			12.82
192		✓				30	83			12.20
198		✓				34	113			10.30
204		✓				28	104			11.50
210		✓				30	106			11.10
216		✓				28	118			10.95

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS



ANTENNA: VVLPV-18-L

POLARIZATION: E CUT: ϕ= θ=

REMARKS:

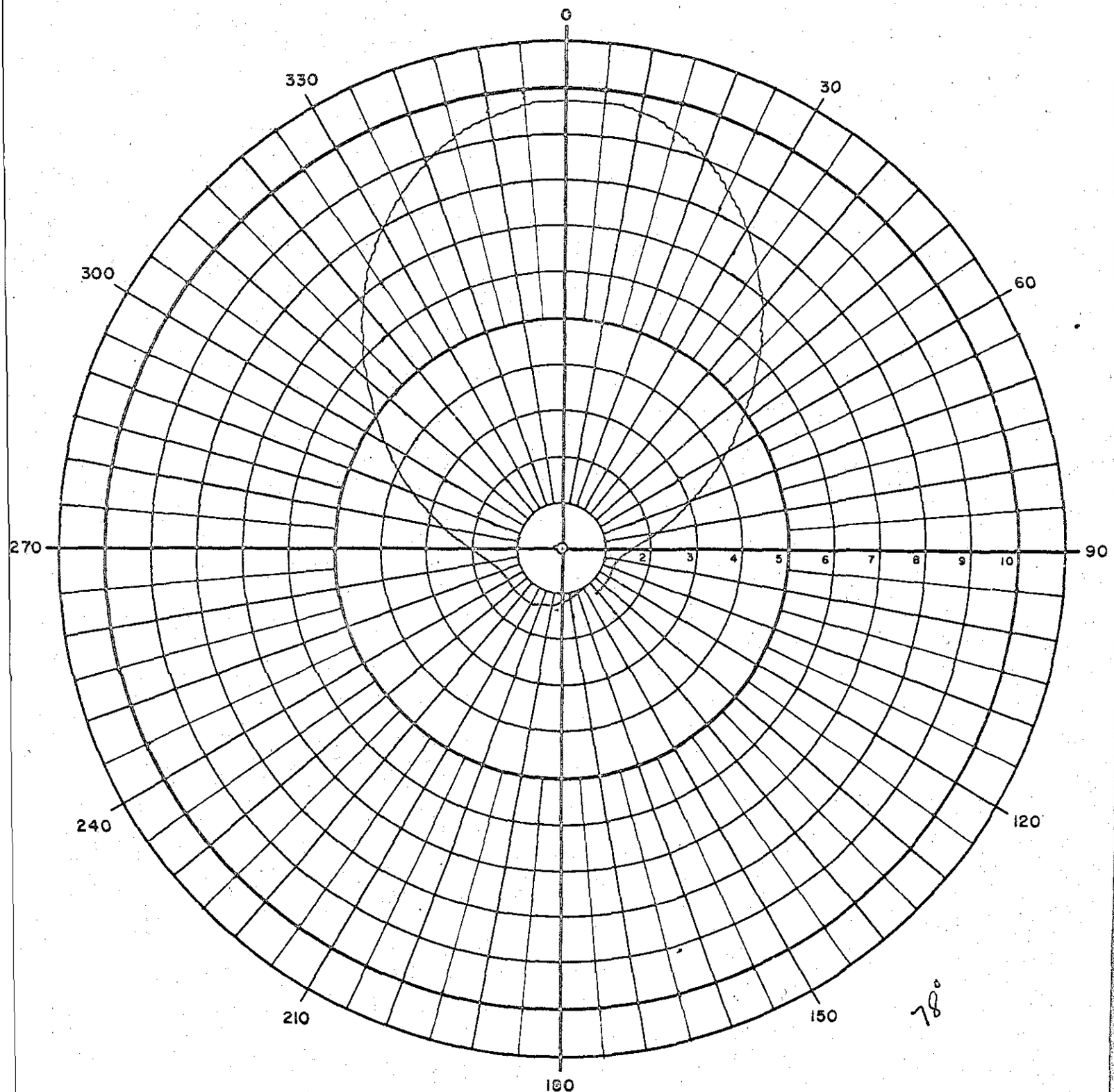
PATTERN NO.:

DATE: 12-3-63

FREQUENCY: ~~5.6~~ 5.2

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS



ANTENNA: VULPV-18-Z

POLARIZATION: ~~VERT~~ CUT: ϕ= Θ=

REMARKS: E PLANE

PATTERN NO.:

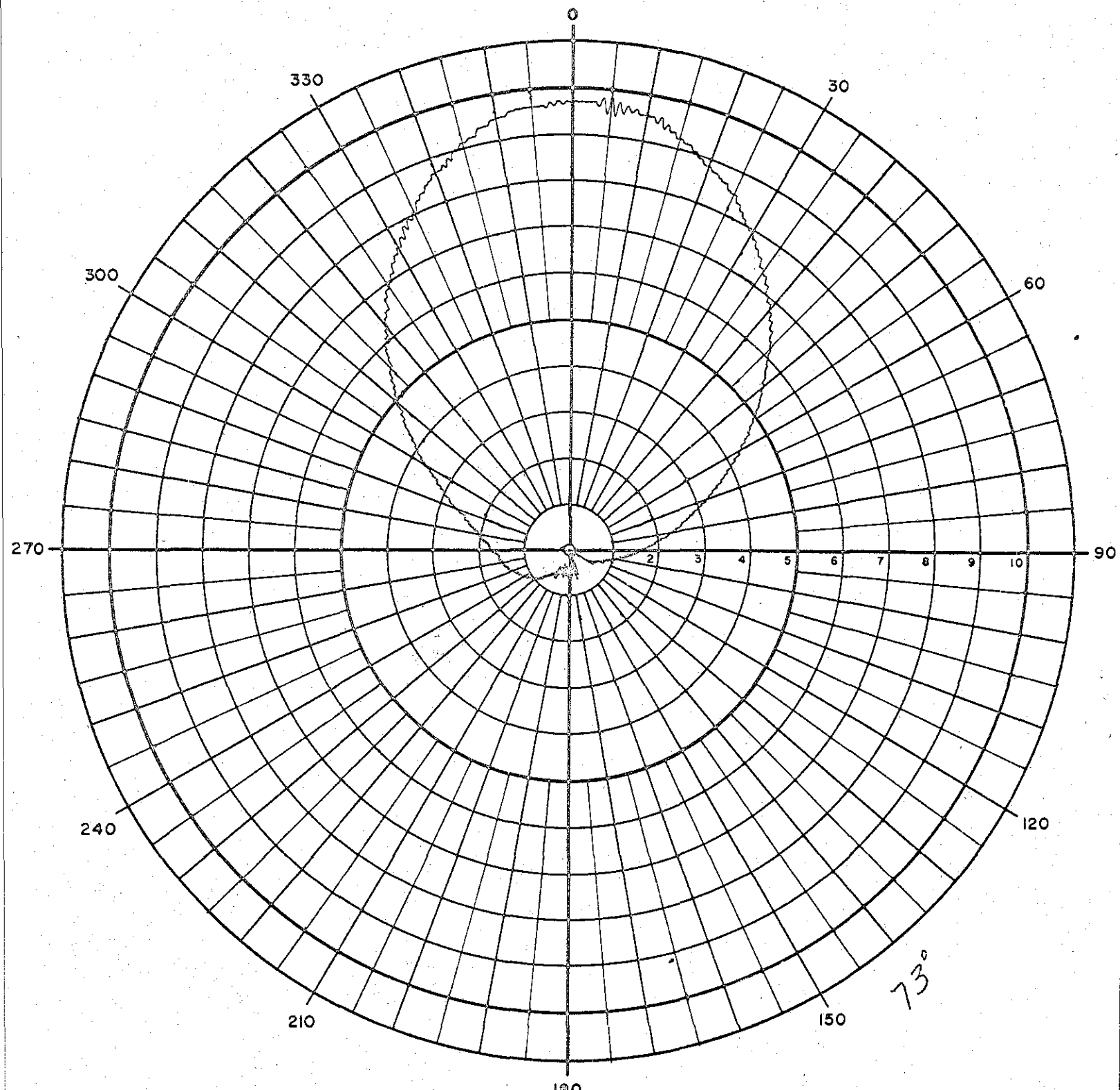
DATE: 12-3-63

FREQUENCY: 54

Ron G & Terry D.

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS



ANTENNA: VULPV-18-L

POLARIZATION: F CUT: ϕ= θ=

REMARKS:

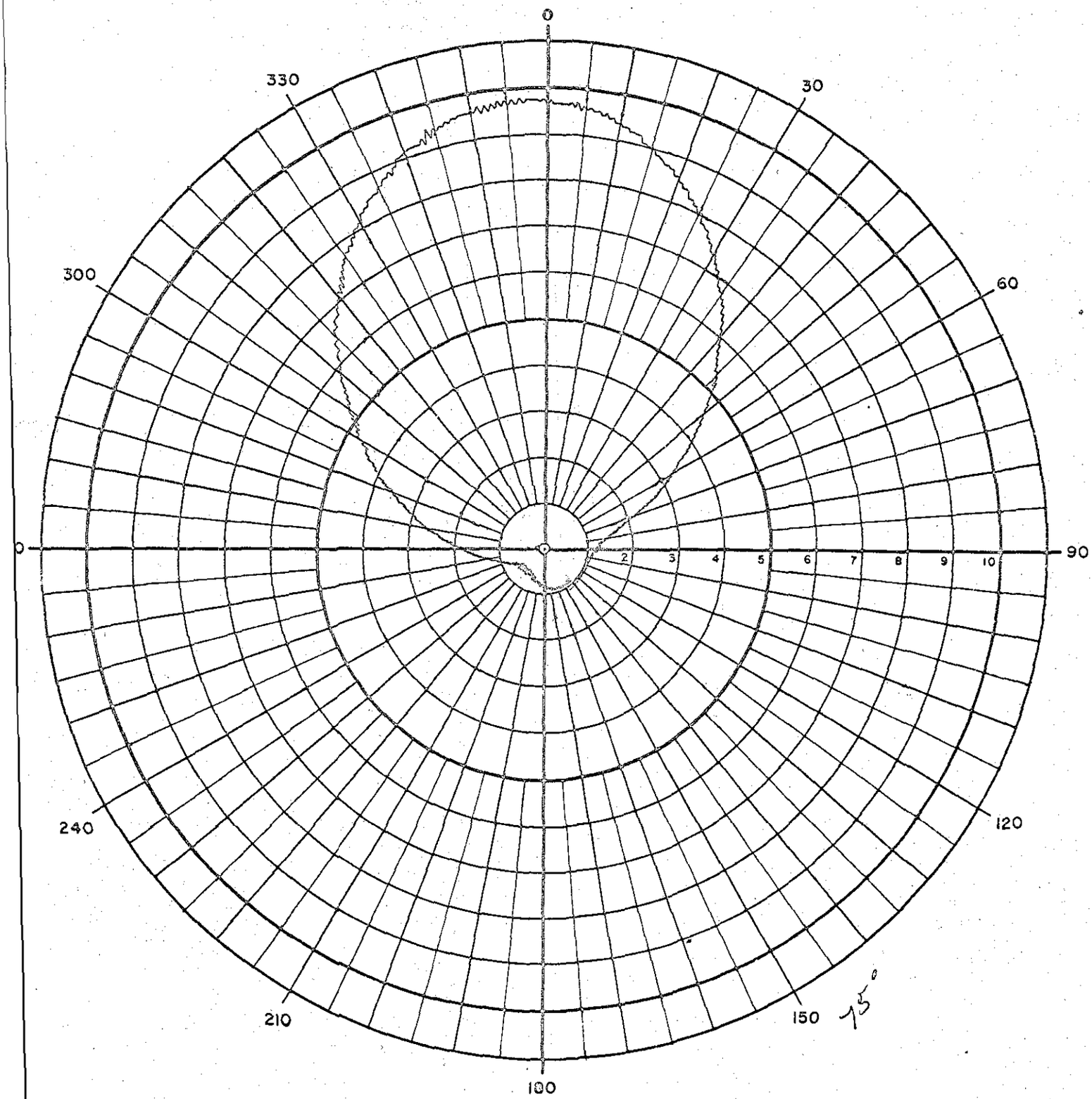
PATTERN NO.:

DATE: 12-3-63

FREQUENCY: 60

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS



ANTENNA: VULPV-18-L

POLARIZATION: E CUT: ϕ= θ=

REMARKS:

PATTERN NO.:

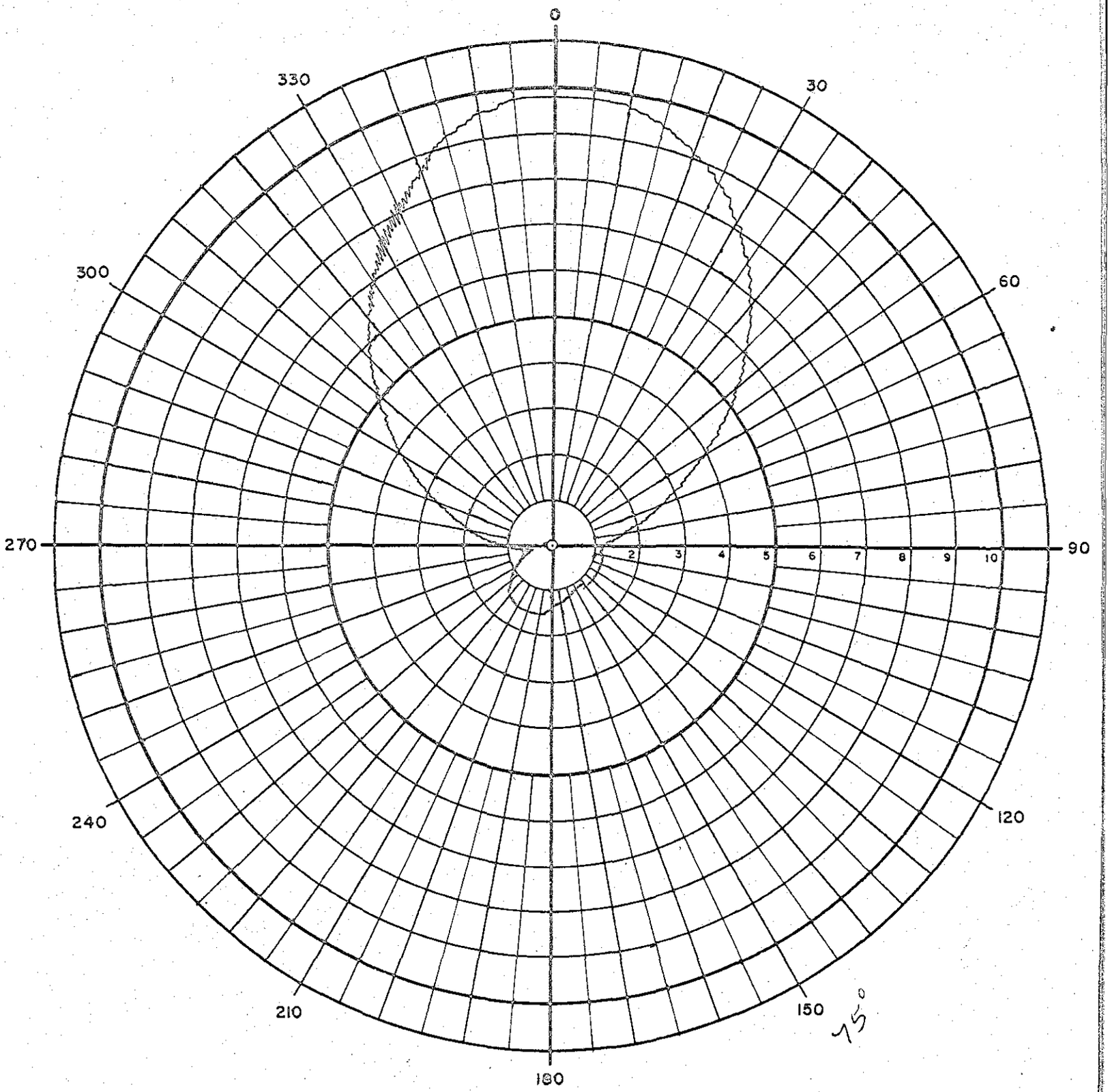
DATE: 12-3-63

FREQUENCY: 66

Ron J + Jerry D

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS



ANTENNA: VULPV-18-I

POLARIZATION: E CUT: ϕ= θ=

REMARKS:

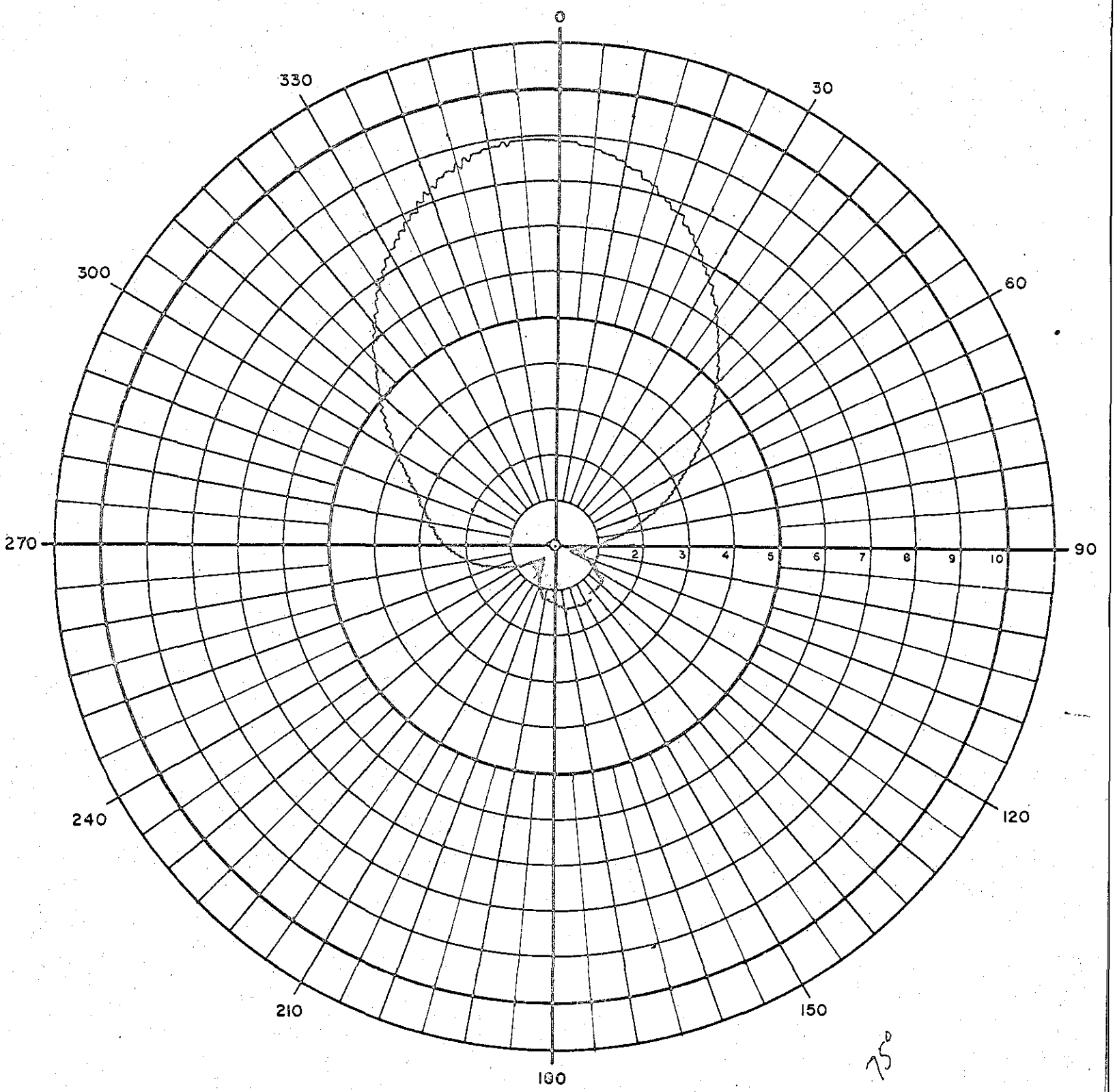
PATTERN NO.:

DATE: 12-3-63

FREQUENCY: [illegible]

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS



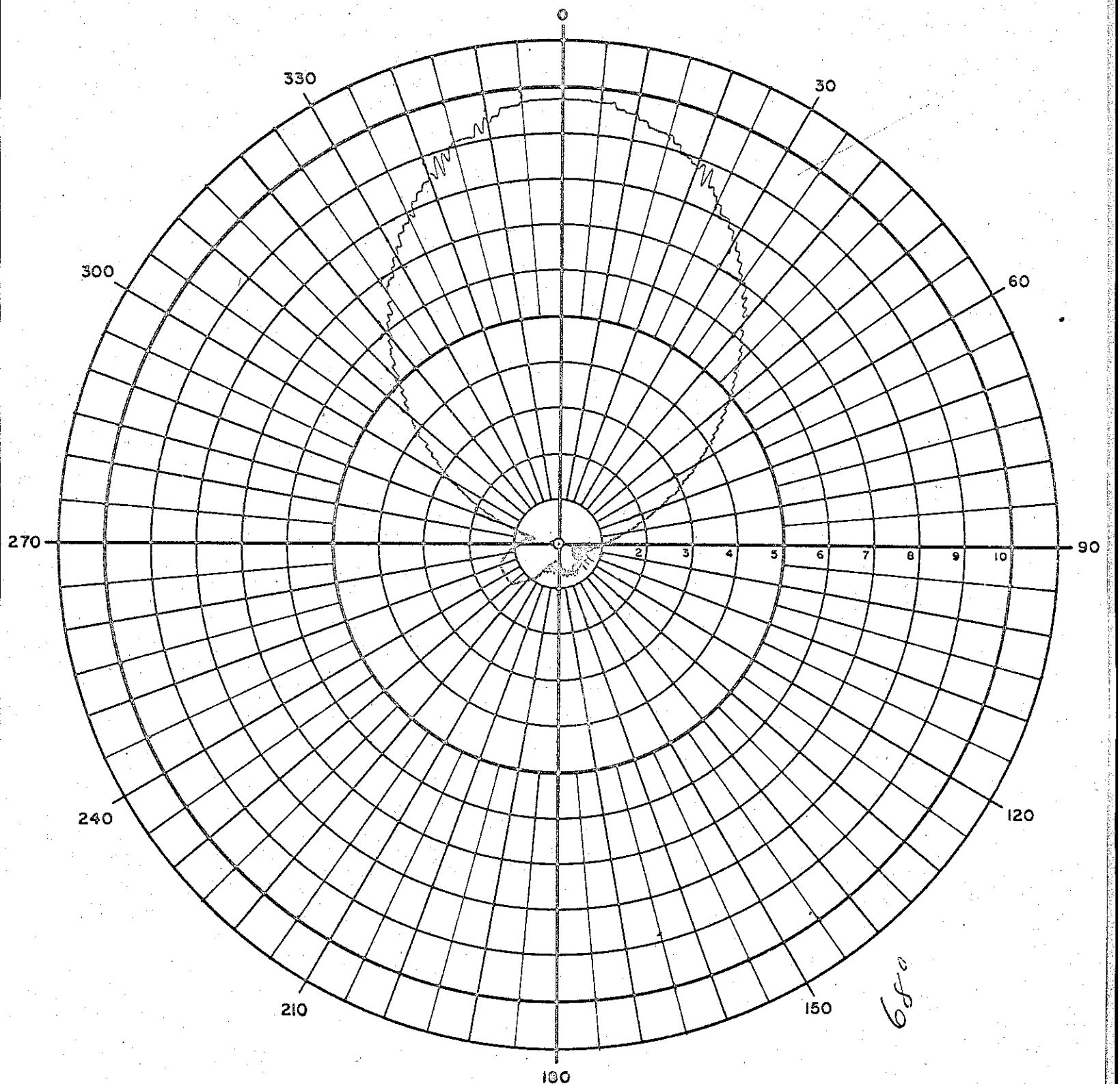
ANTENNA: VULPV-18-L PATTERN NO.:

POLARIZATION: E CUT: ϕ= θ= DATE: 12-3-63

REMARKS: FREQUENCY: 78

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS



ANTENNA: VULPV-18-L

POLARIZATION: E-PLANE CUT: ϕ= Θ=

REMARKS:

PATTERN NO.:

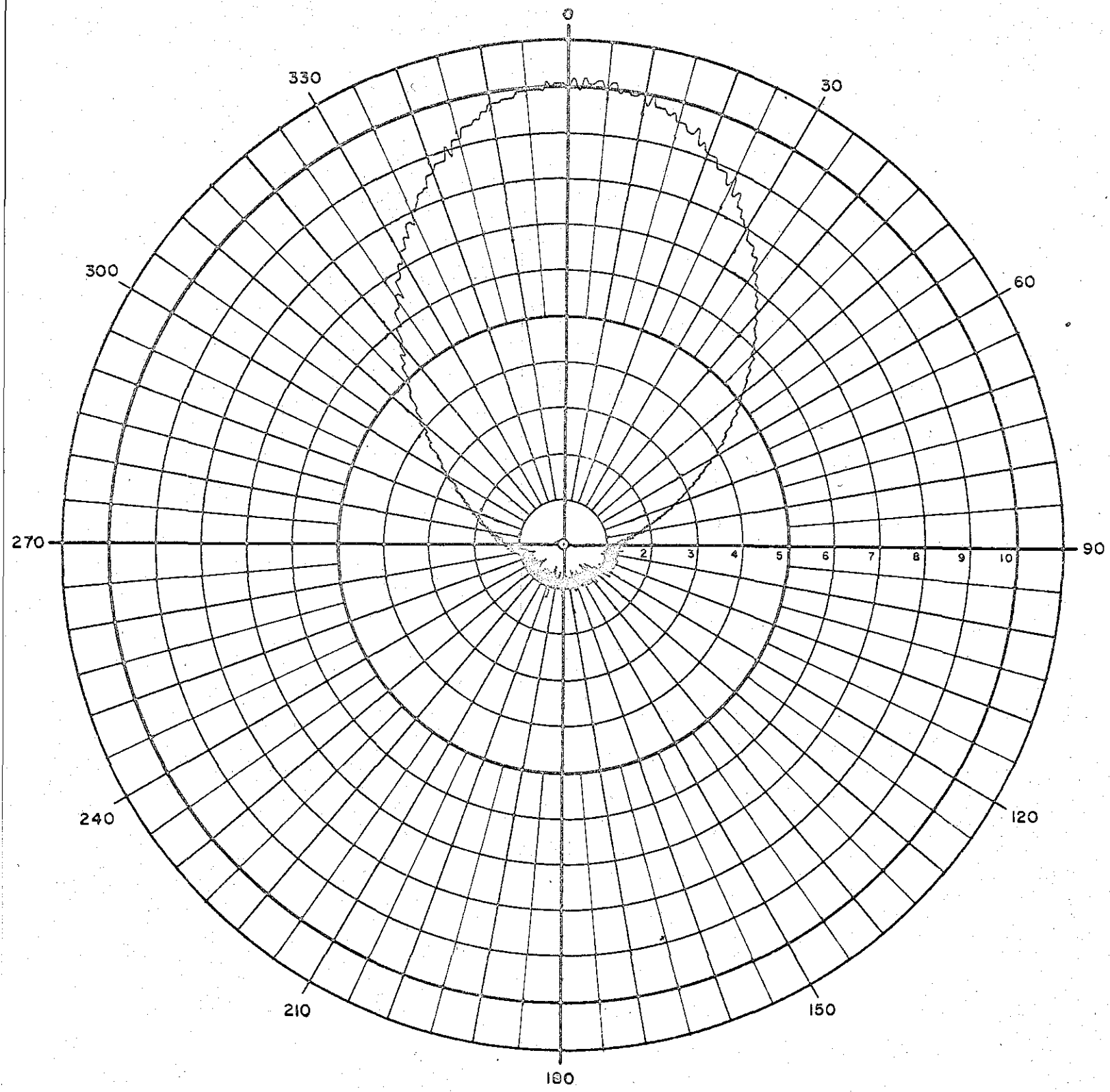
DATE: 12-3-63

FREQUENCY: 82

Jerry & Ron

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS



ANTENNA: VULPV-18-I

POLARIZATION: F CUT: ϕ= θ=

REMARKS:

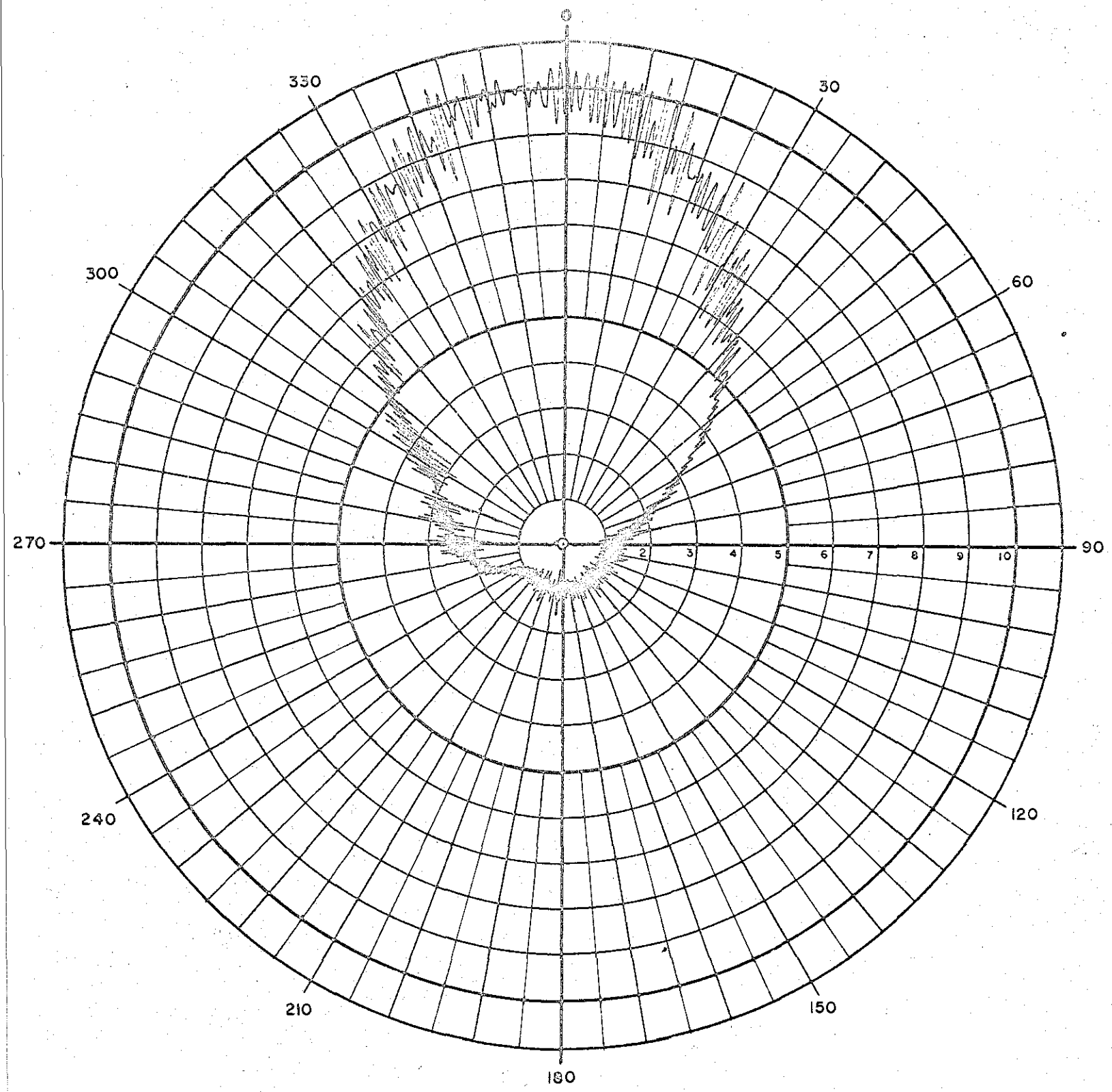
PATTERN NO.:

DATE: 12-3-63

FREQUENCY: 84

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS



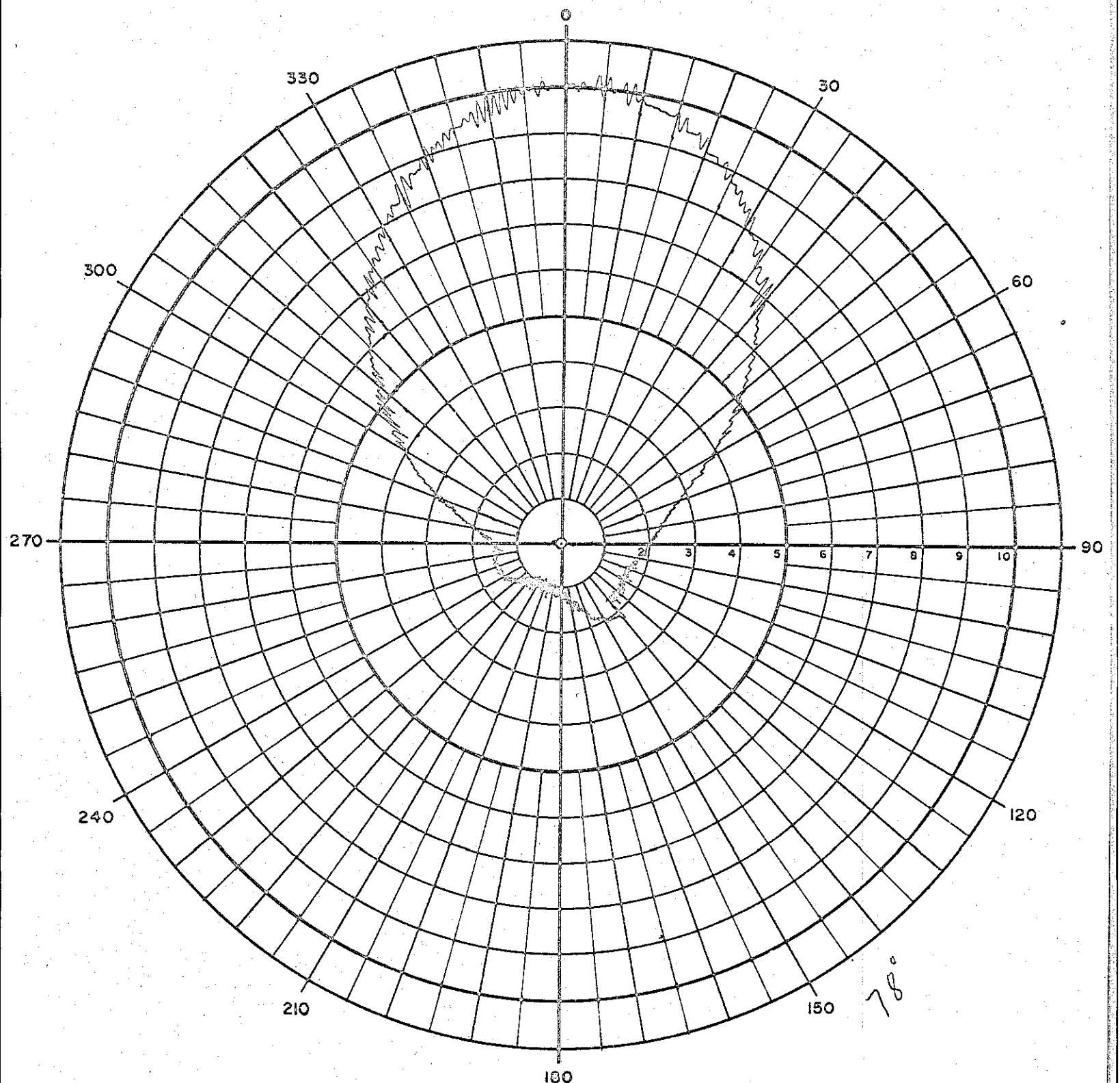
ANTENNA: VULPV-18-I PATTERN NO.:

POLARIZATION: E CUT: ϕ= θ= DATE: 12-3-63

REMARKS: FREQUENCY: 86

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS



ANTENNA: VULPV-18I

POLARIZATION: E-PLANE CUT: ϕ= Θ=

REMARKS:

PATTERN NO.:

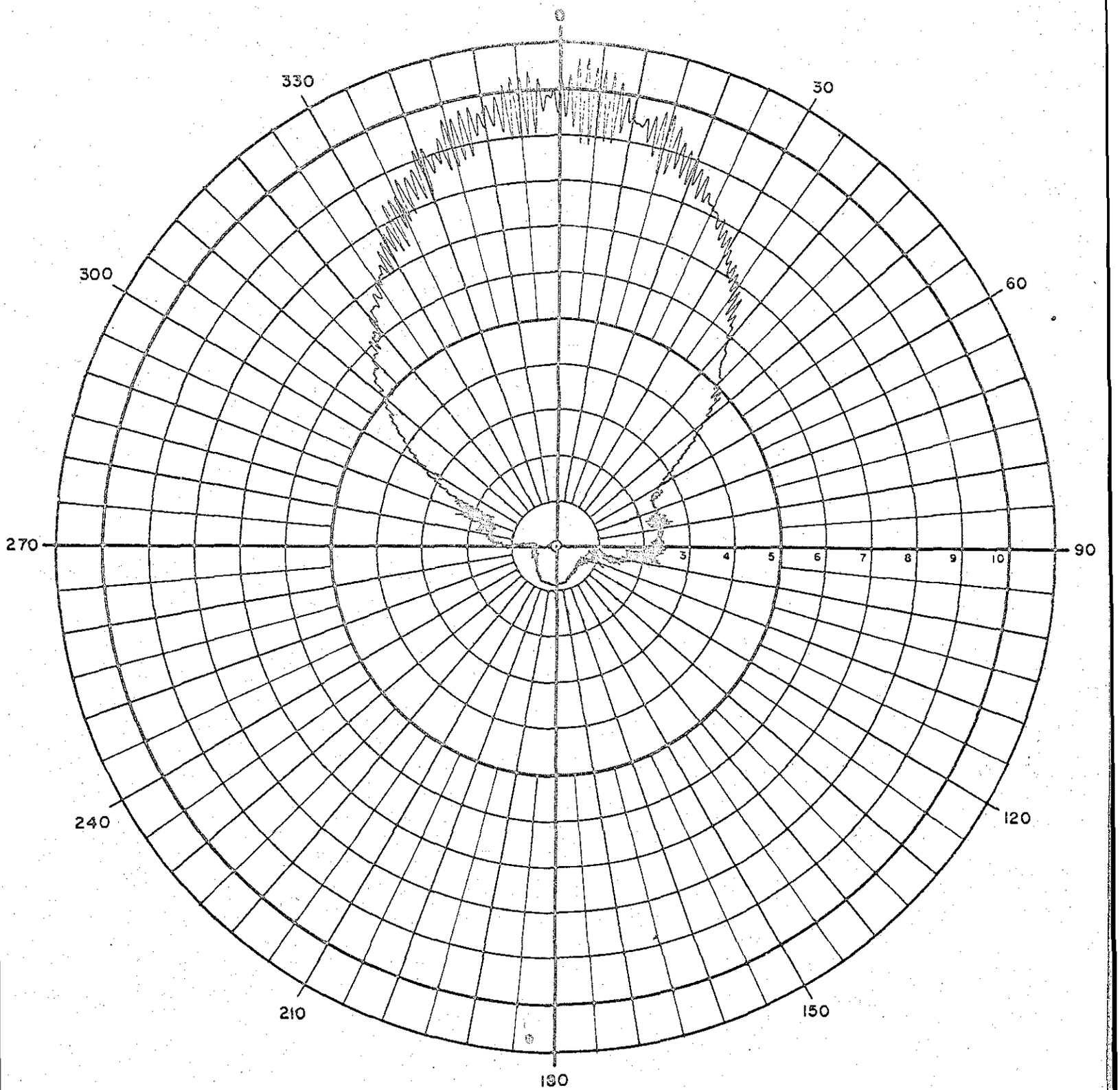
DATE: 12-3-63

FREQUENCY: 88

Jerry L. Rose

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS



ANTENNA: VULPV-18-L

POLARIZATION: E CUT: ϕ= θ=

REMARKS:

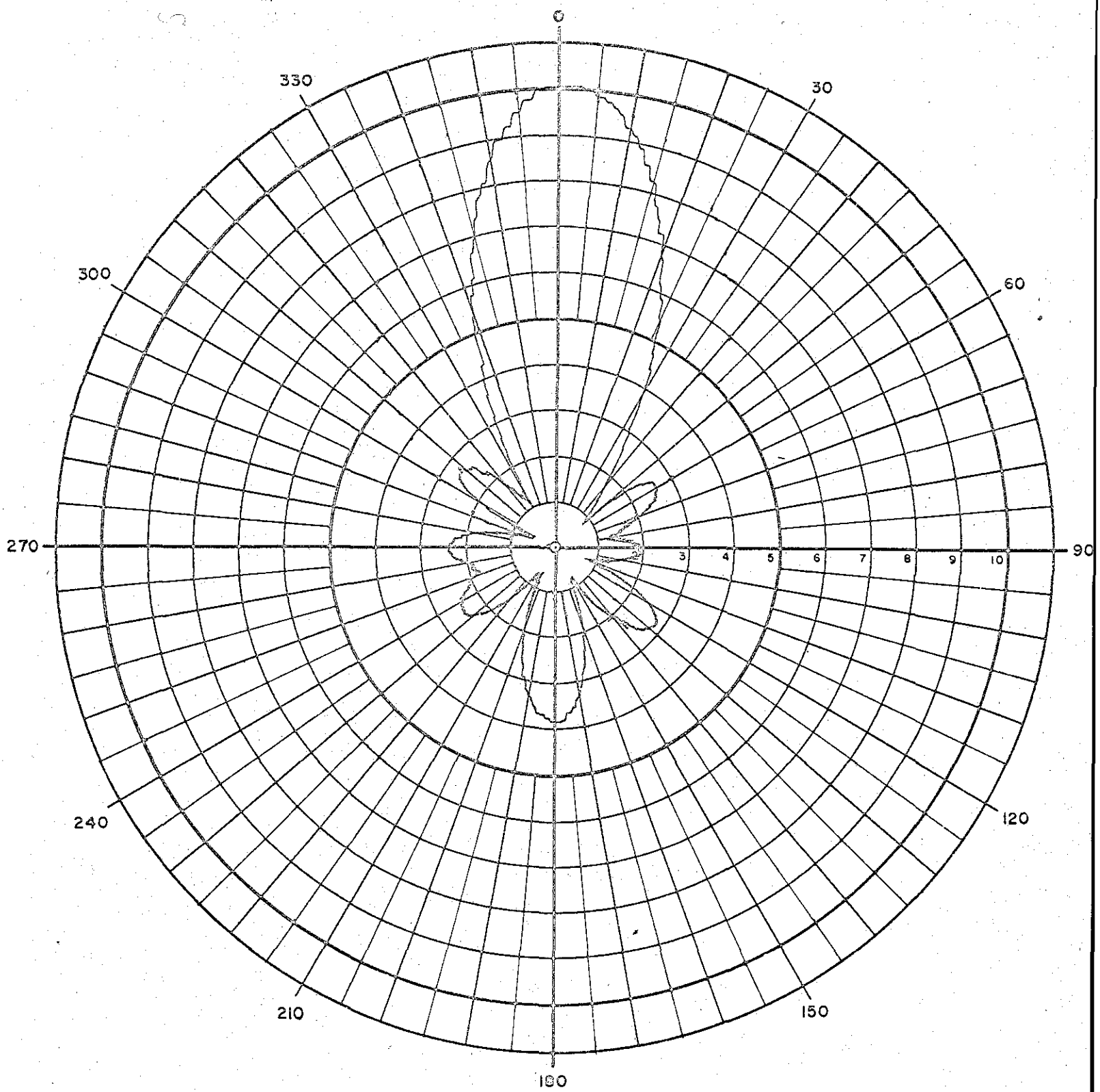
PATTERN NO.:

DATE: 12-3-63

FREQUENCY: 90

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS



ANTENNA: VULPV-18-T

POLARIZATION: E CUT: ϕ= θ=

REMARKS:

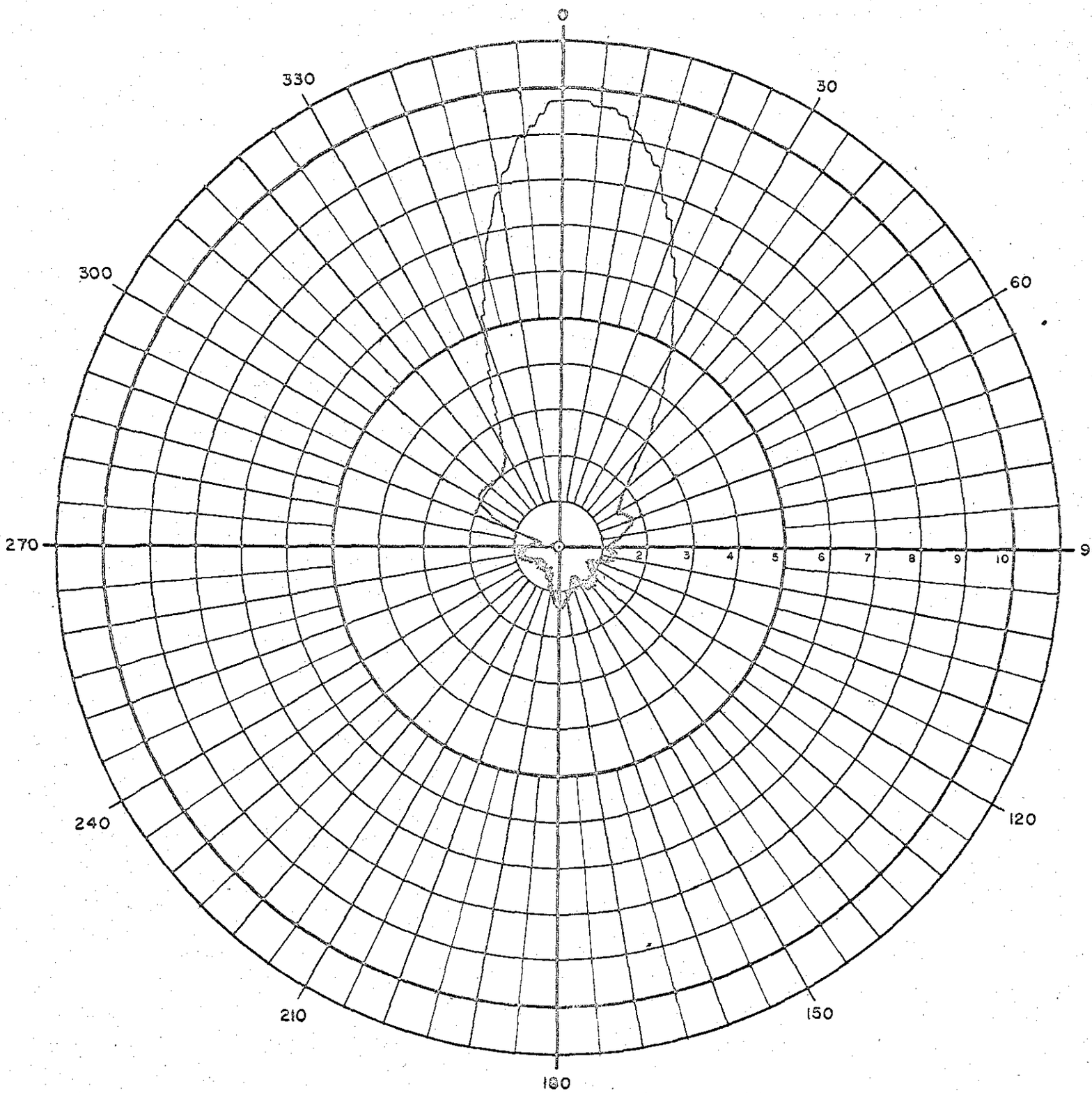
PATTERN NO.:

DATE: 12-3-63

FREQUENCY: 166

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS



ANTENNA: VULPV-18-E

POLARIZATION: E CUT: ϕ= θ=

REMARKS:

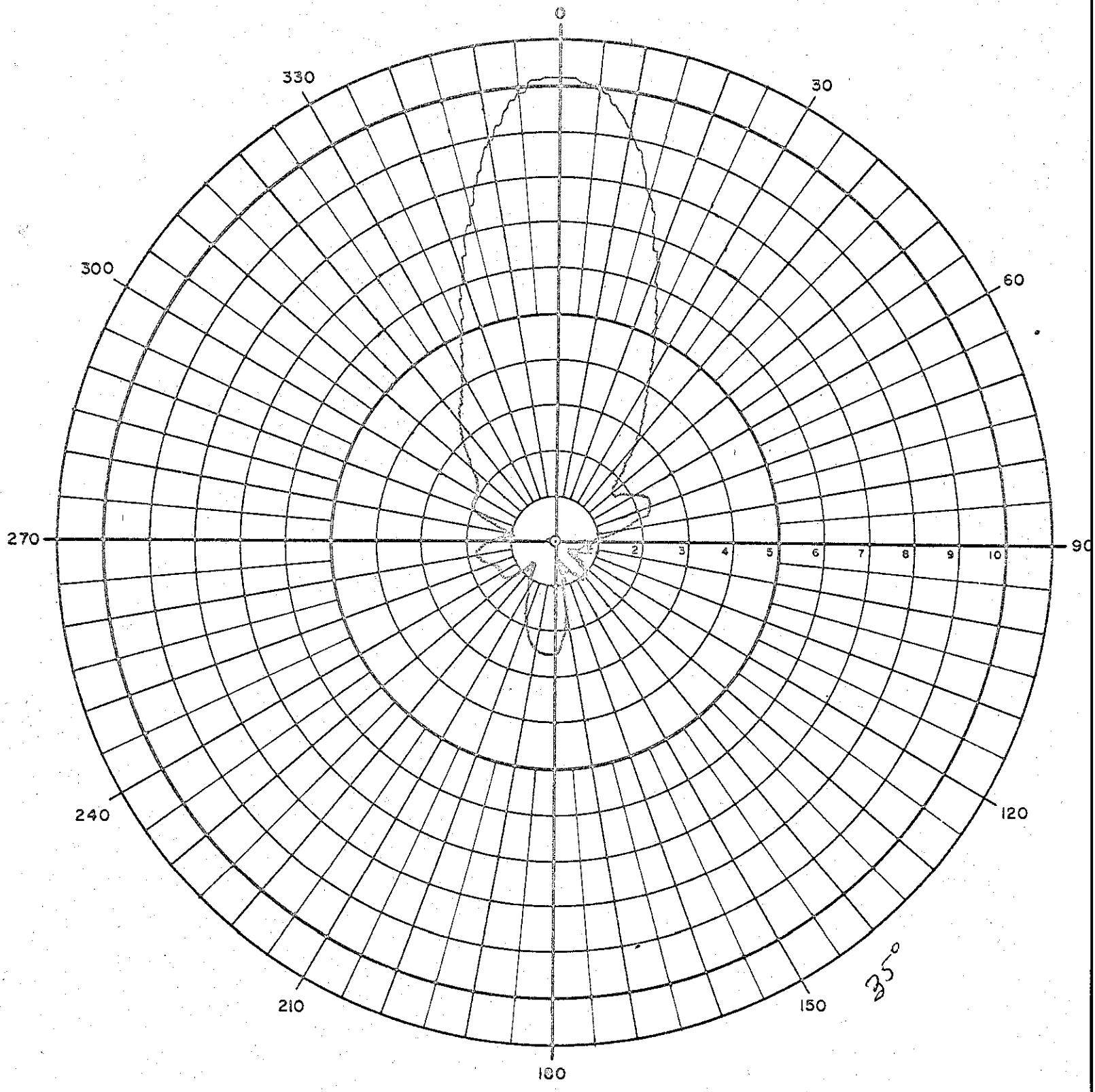
PATTERN NO.:

DATE: 12363

FREQUENCY: 170

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS



ANTENNA: VULPV-18-I

POLARIZATION: E CUT: ϕ= θ=

REMARKS:

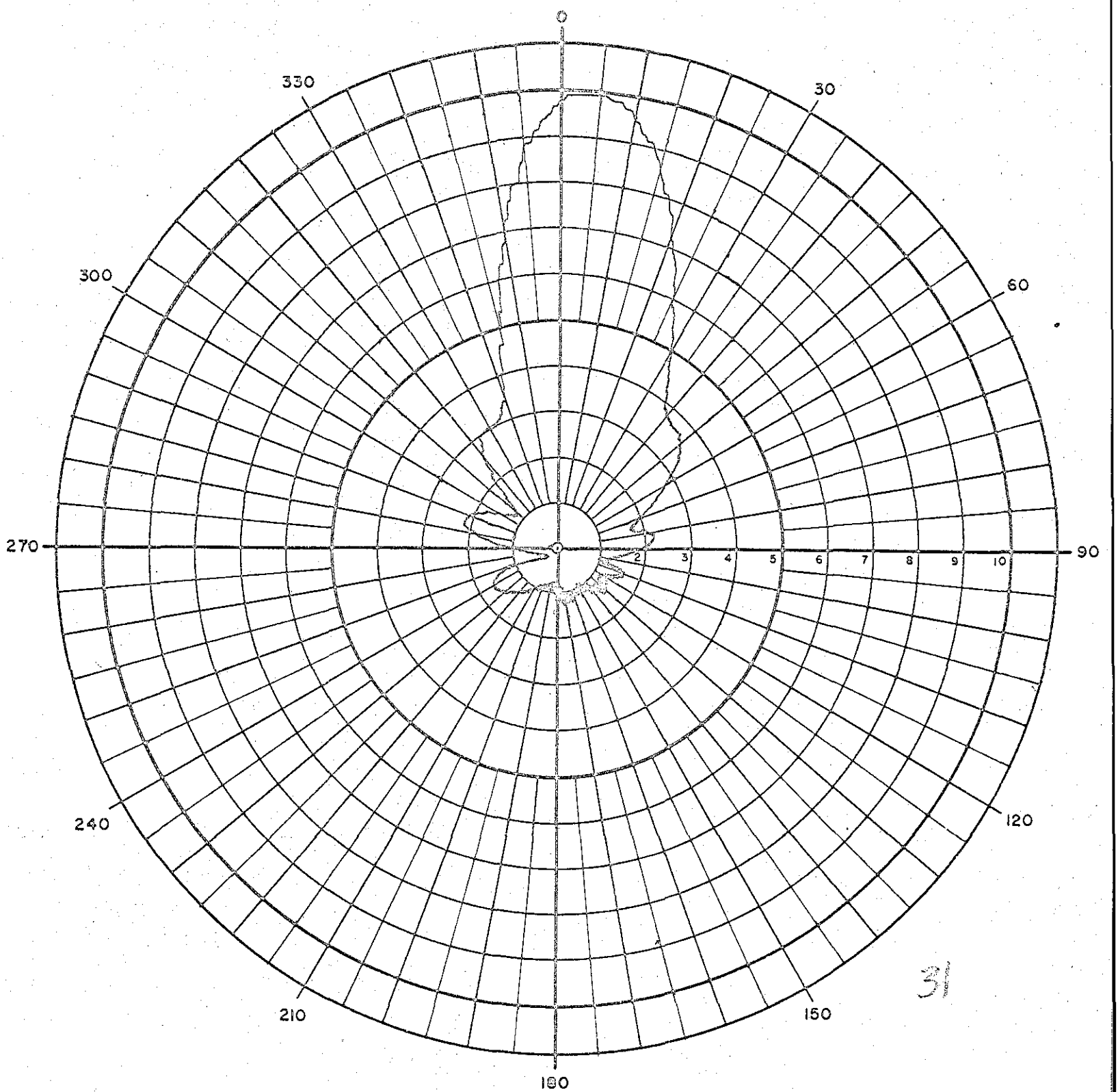
PATTERN NO.:

DATE: 12-3-63

FREQUENCY: 114

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS



37

ANTENNA: VULPV-18-I

POLARIZATION: E CUT: ϕ= θ=

REMARKS:

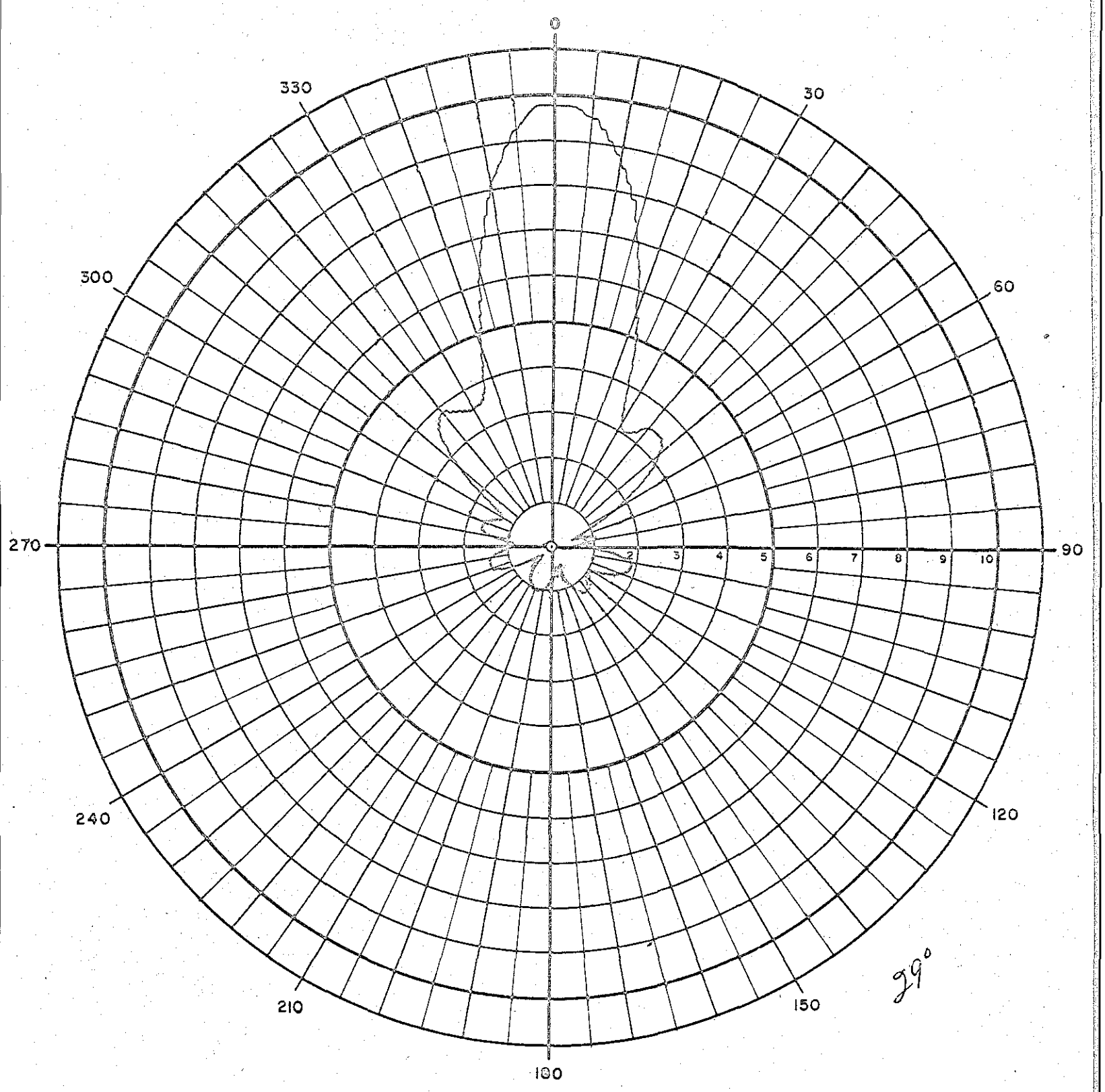
PATTERN NO.:

DATE: 12-3-63

FREQUENCY: 176

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS



ANTENNA: VHLPV-18-L

POLARIZATION: E CUT: ϕ= θ=

REMARKS:

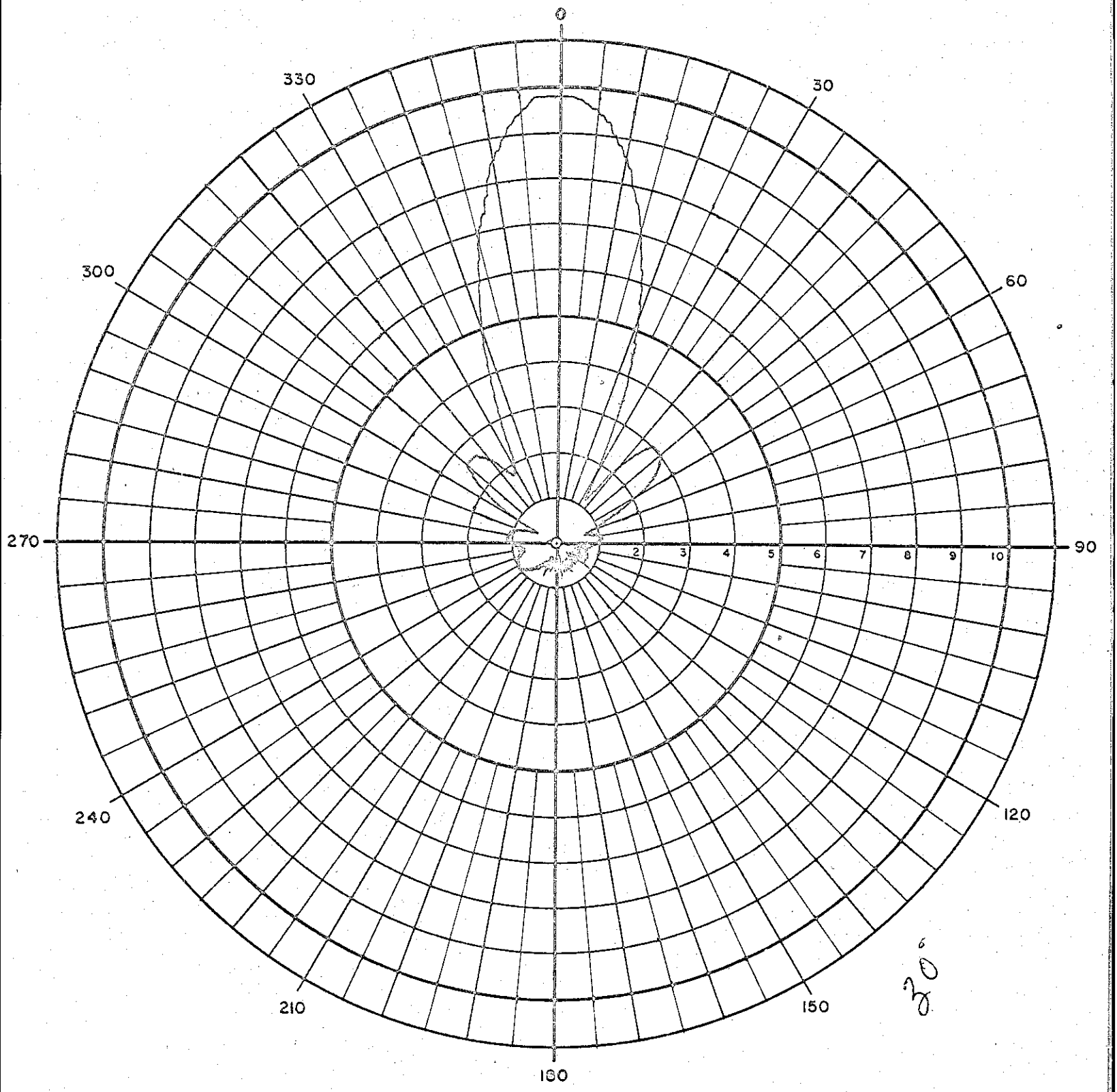
PATTERN NO.:

DATE: 12-3-63

FREQUENCY: 180

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS



ANTENNA: VULPV-18-I

POLARIZATION: E CUT: ϕ= Θ=

REMARKS:

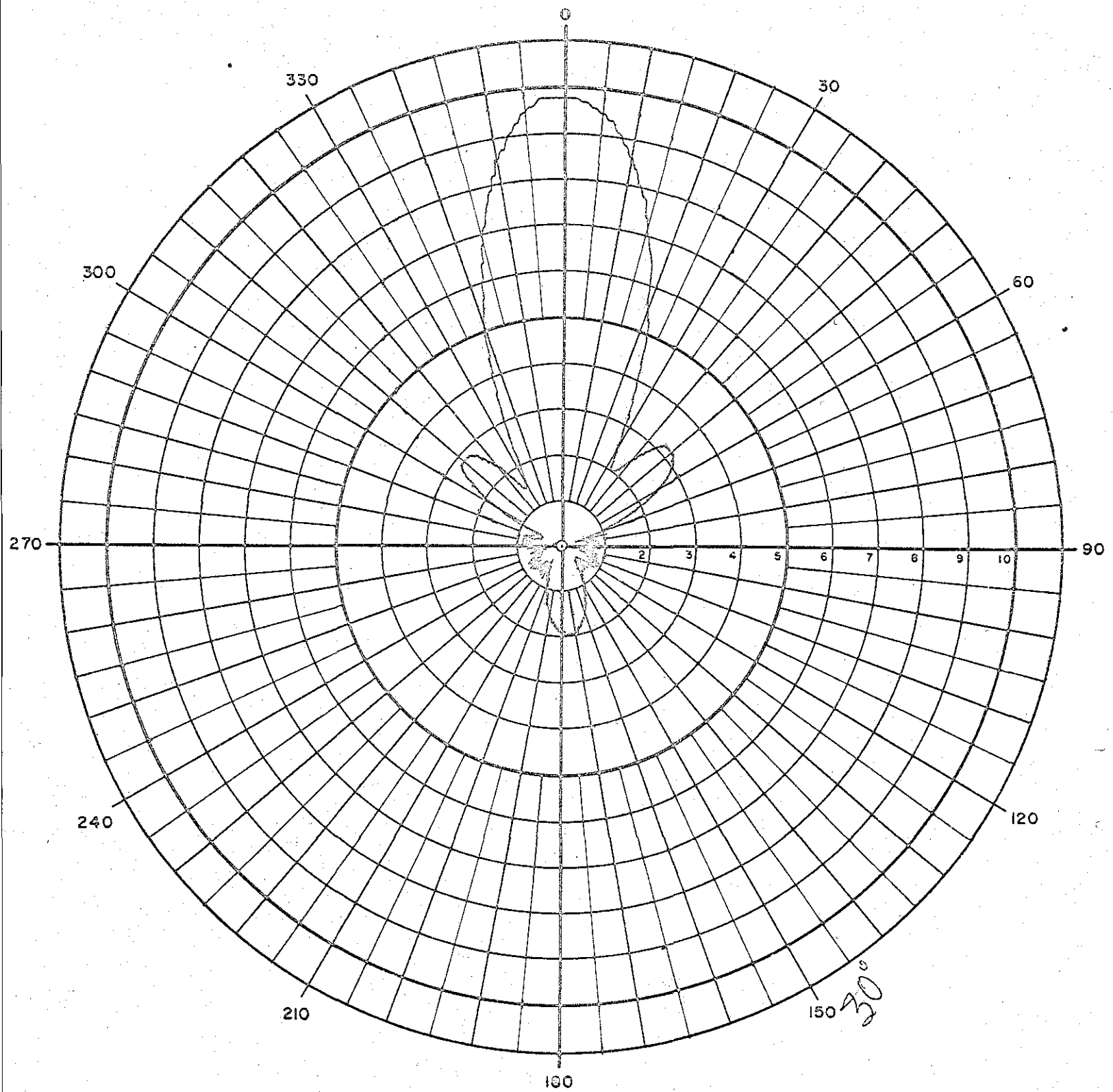
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DATE: 12-3-63

FREQUENCY: 186

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS



ANTENNA: VULPV-18-I

POLARIZATION: E CUT: ϕ= Θ=

REMARKS:

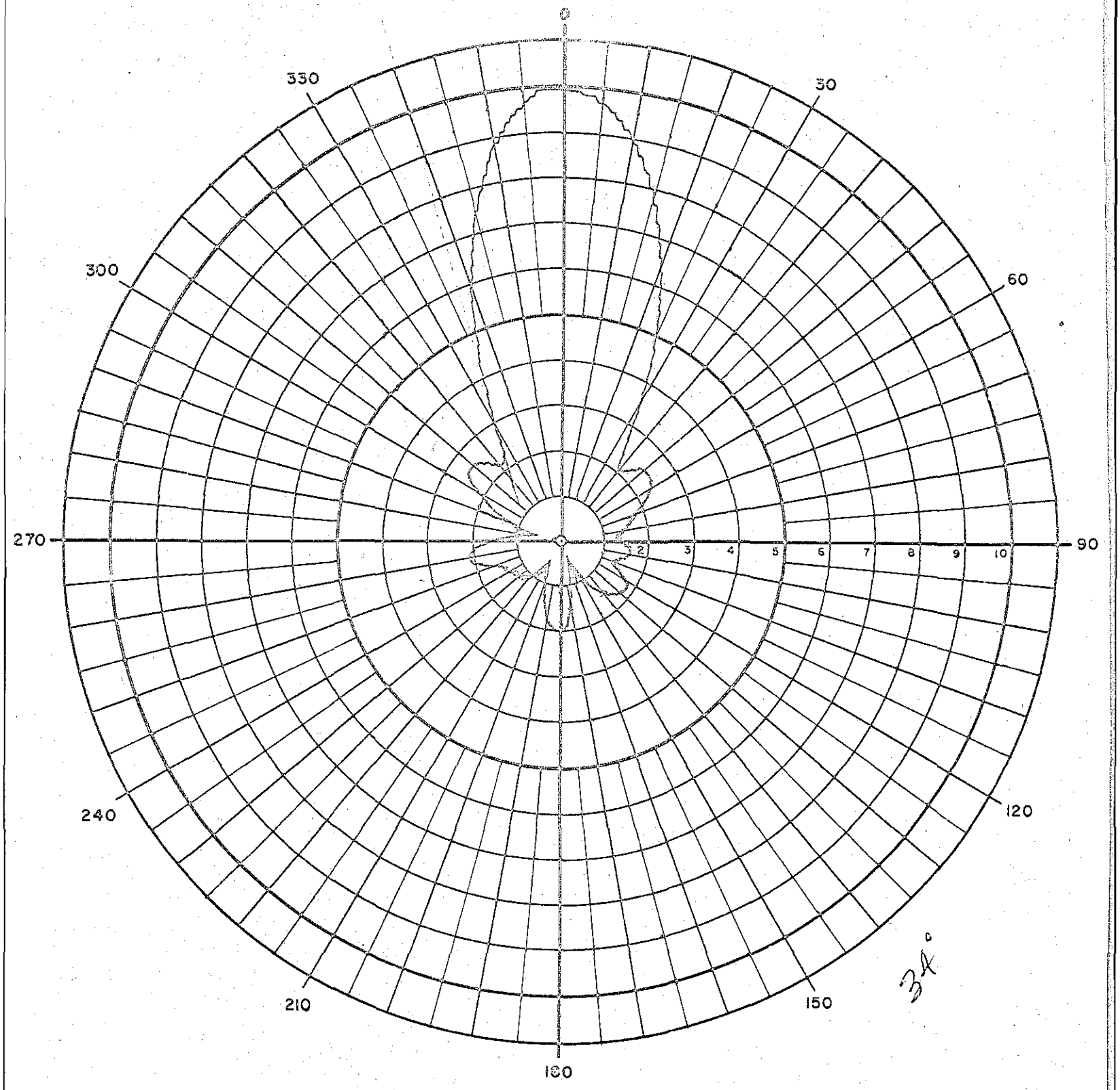
PATTERN NO.:

DATE: 12-3-63

FREQUENCY: 1GHz

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS



ANTENNA: VULP V-18-I

POLARIZATION: E CUT: ϕ= θ=

REMARKS:

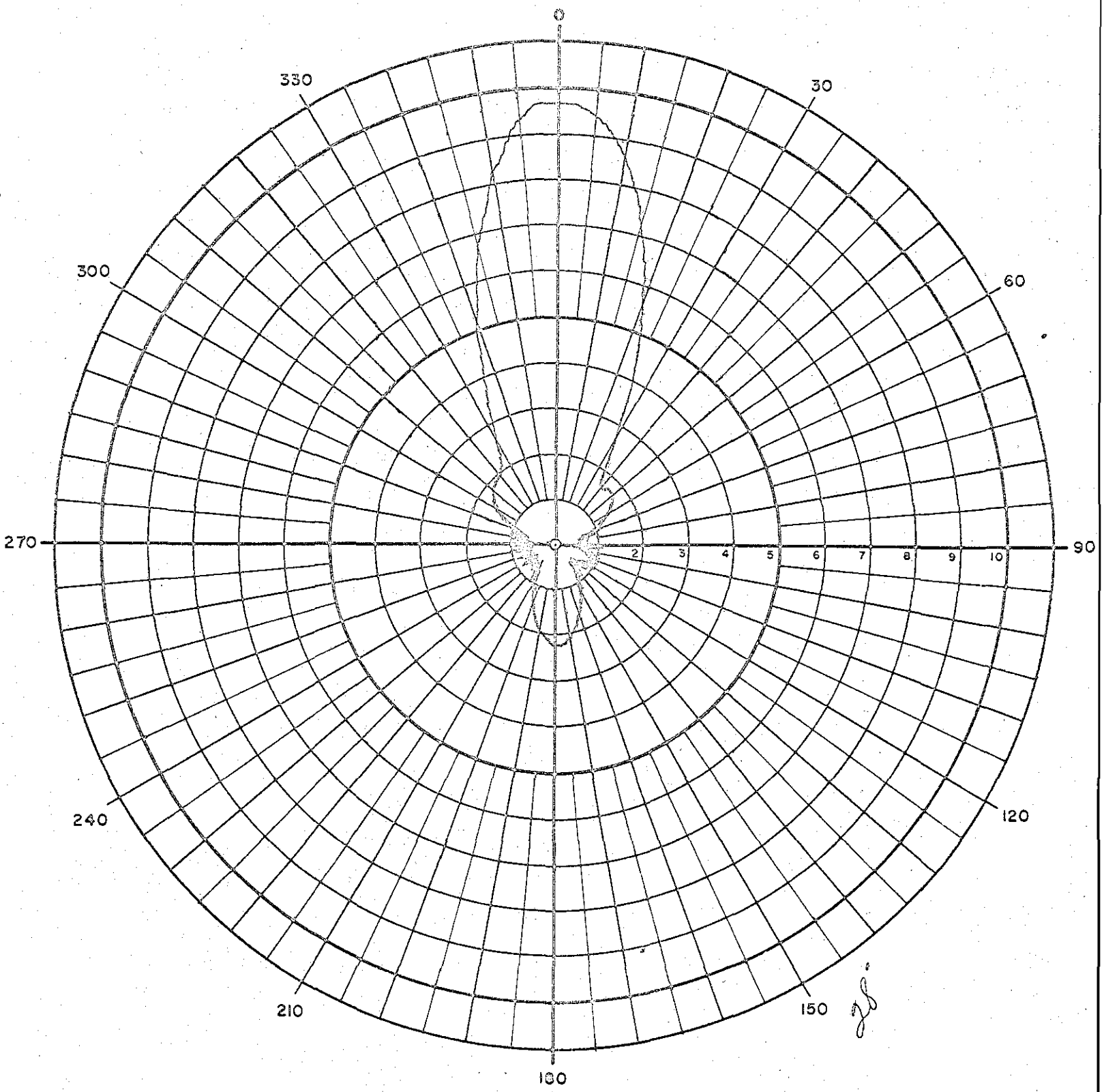
PATTERN NO.:

DATE: 12-3-63

FREQUENCY: 198

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS



ANTENNA: VULPV-18-I

POLARIZATION: E CUT: ϕ= θ=

REMARKS:

PATTERN NO.:

DATE: 12-3-63

FREQUENCY: 204

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS

ANTENNA: VULPV-18-I

POLARIZATION: E CUT: ϕ= θ=

REMARKS:

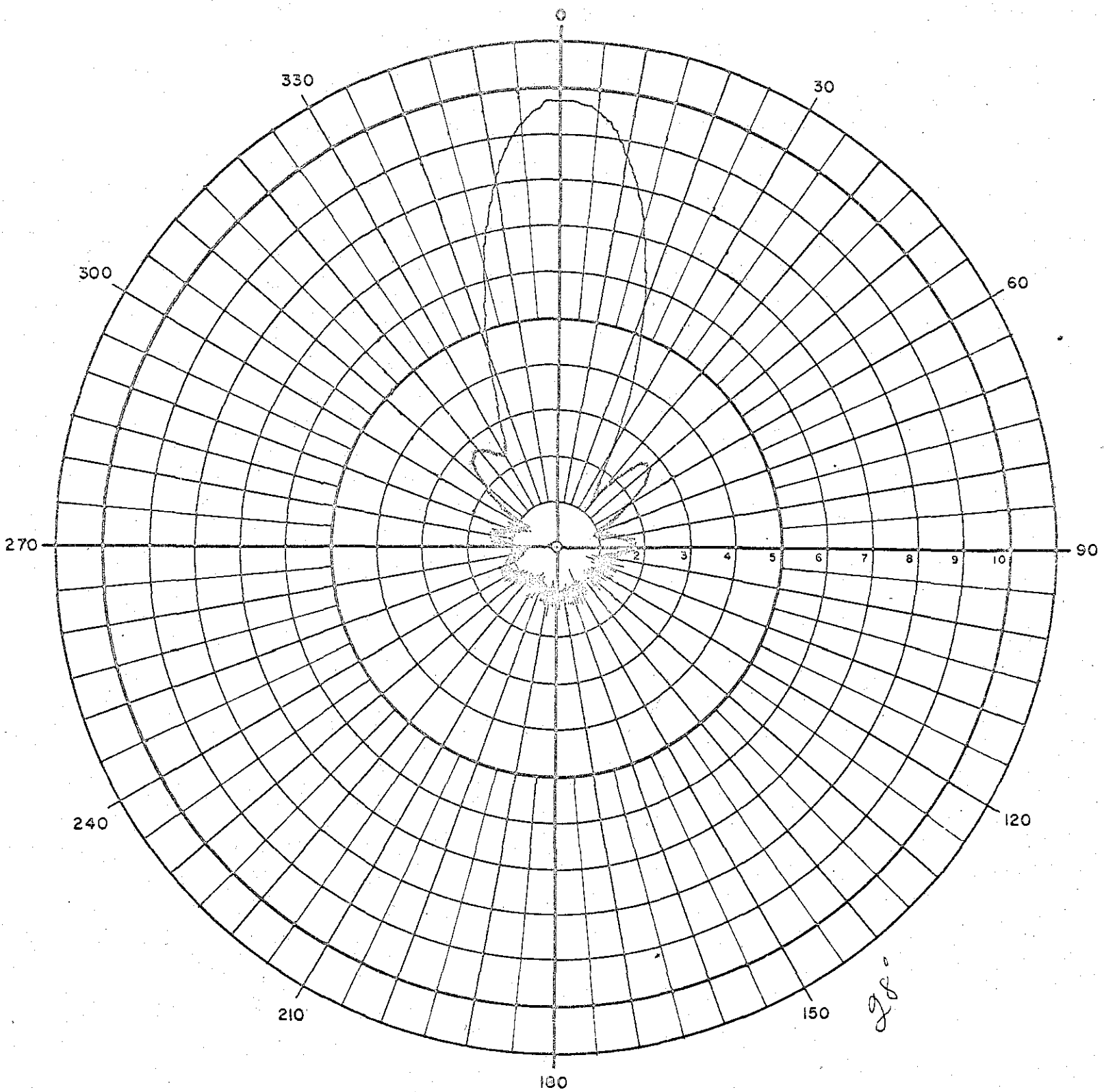
PATTERN NO.:

DATE: 12-3-63

FREQUENCY: 210

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS



ANTENNA: VULPV-18-E PATTERN NO.:

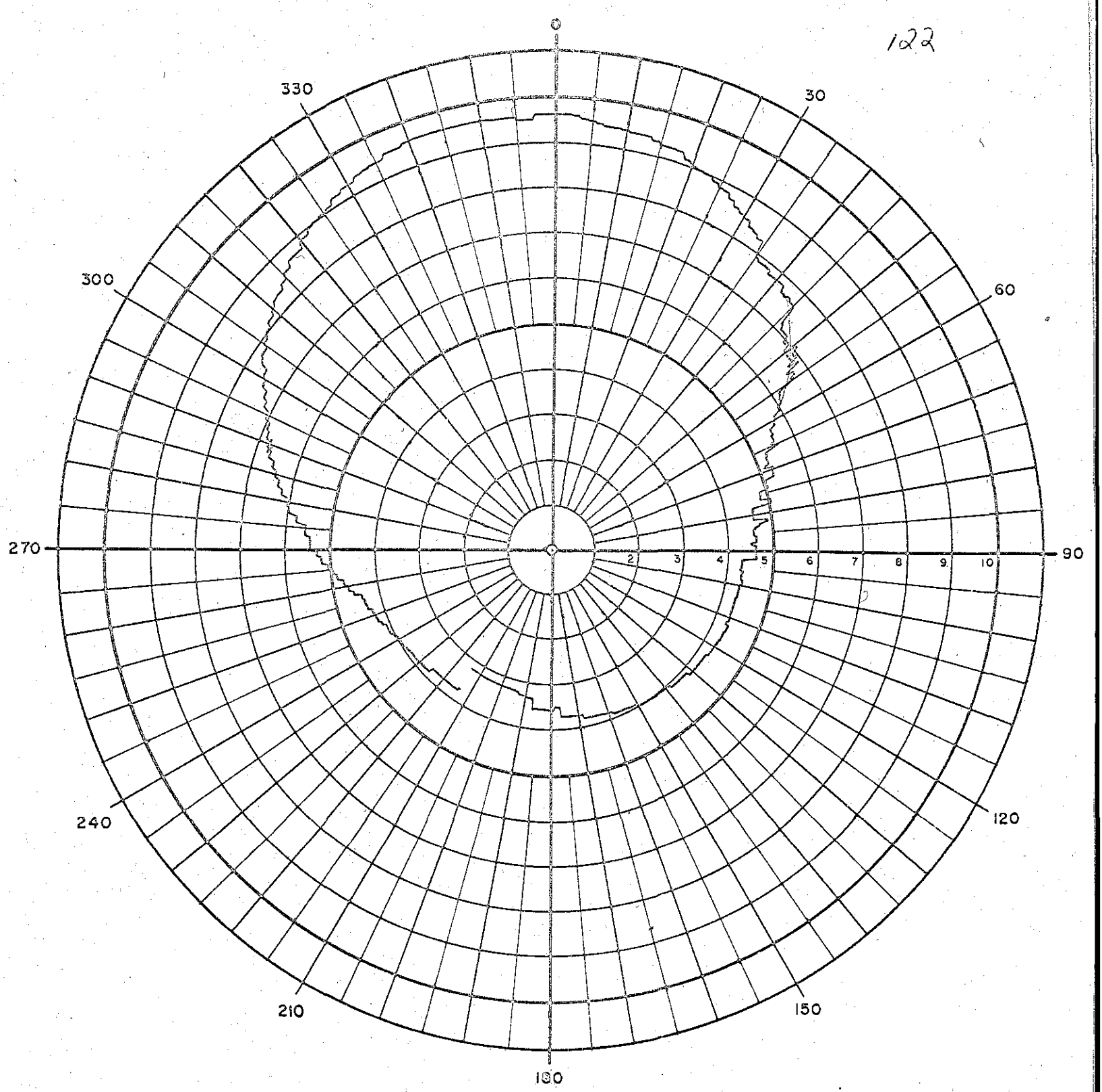
POLARIZATION: E CUT: ϕ= θ= DATE: 12-3-63

REMARKS: FREQUENCY: 216

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS

122



ANTENNA: _____ PATTERN NO.: _____

POLARIZATION: H CUT: ϕ= _____ θ= _____ DATE: _____

REMARKS: _____ FREQUENCY: 54

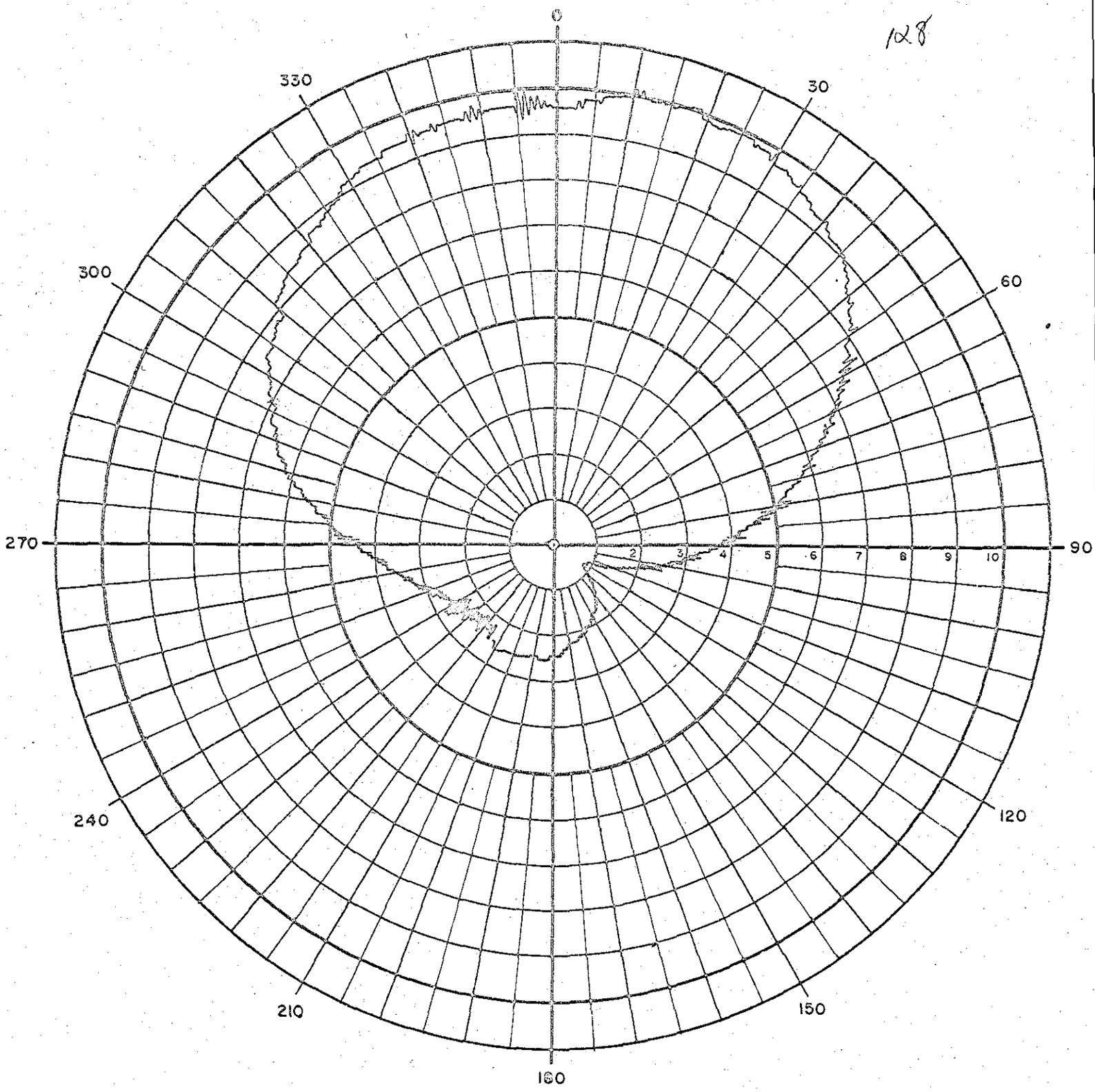
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JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS

128



ANTENNA: _____ PATTERN NO.: _____

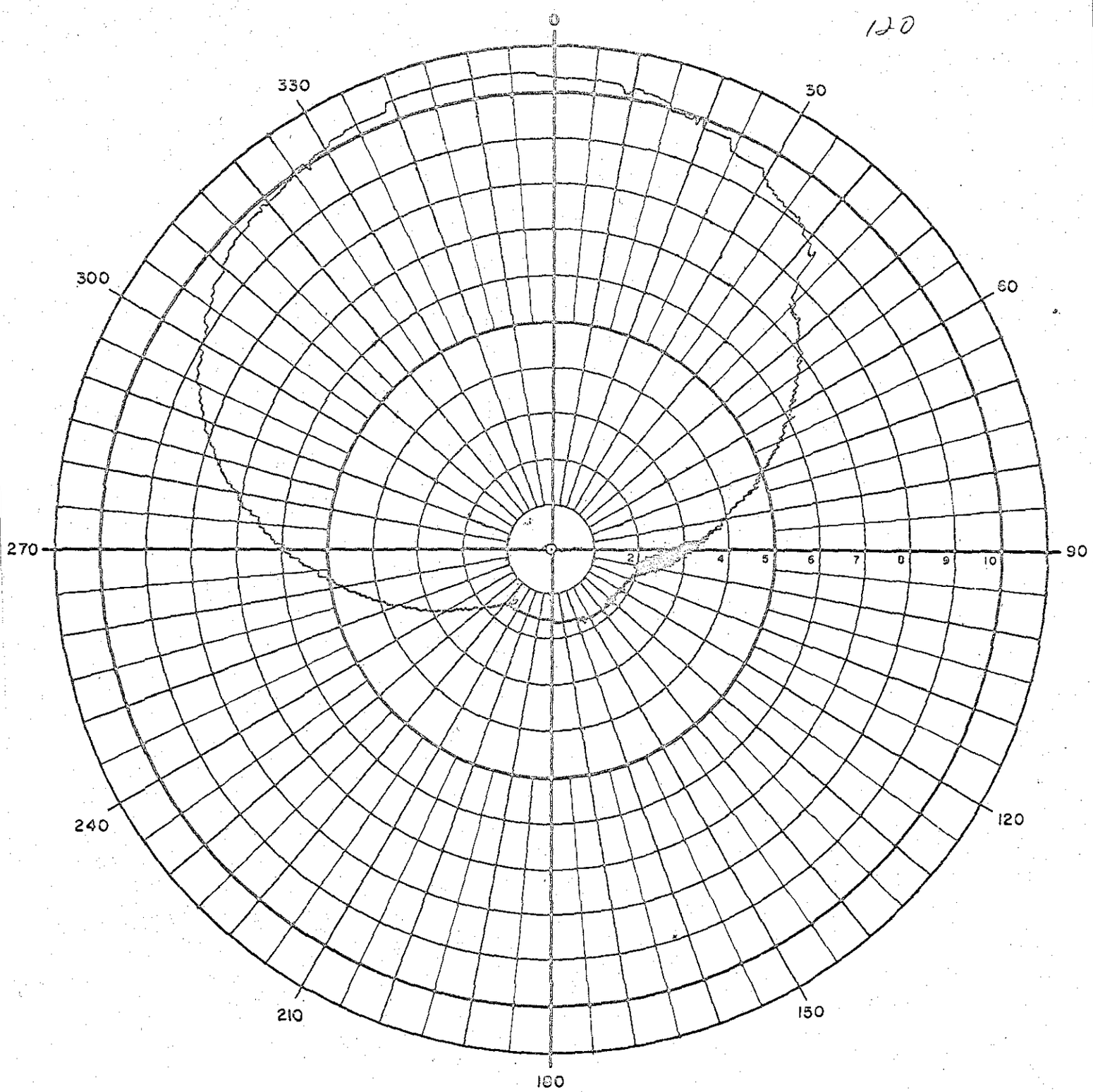
POLARIZATION: _____ CUT: ϕ= _____ θ= _____ DATE: _____

REMARKS: _____ FREQUENCY: 66

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS

120



ANTENNA: _____ PATTERN NO.: _____

POLARIZATION: _____ CUT: ϕ= _____ θ= _____ DATE: _____

REMARKS: _____ FREQUENCY: 72

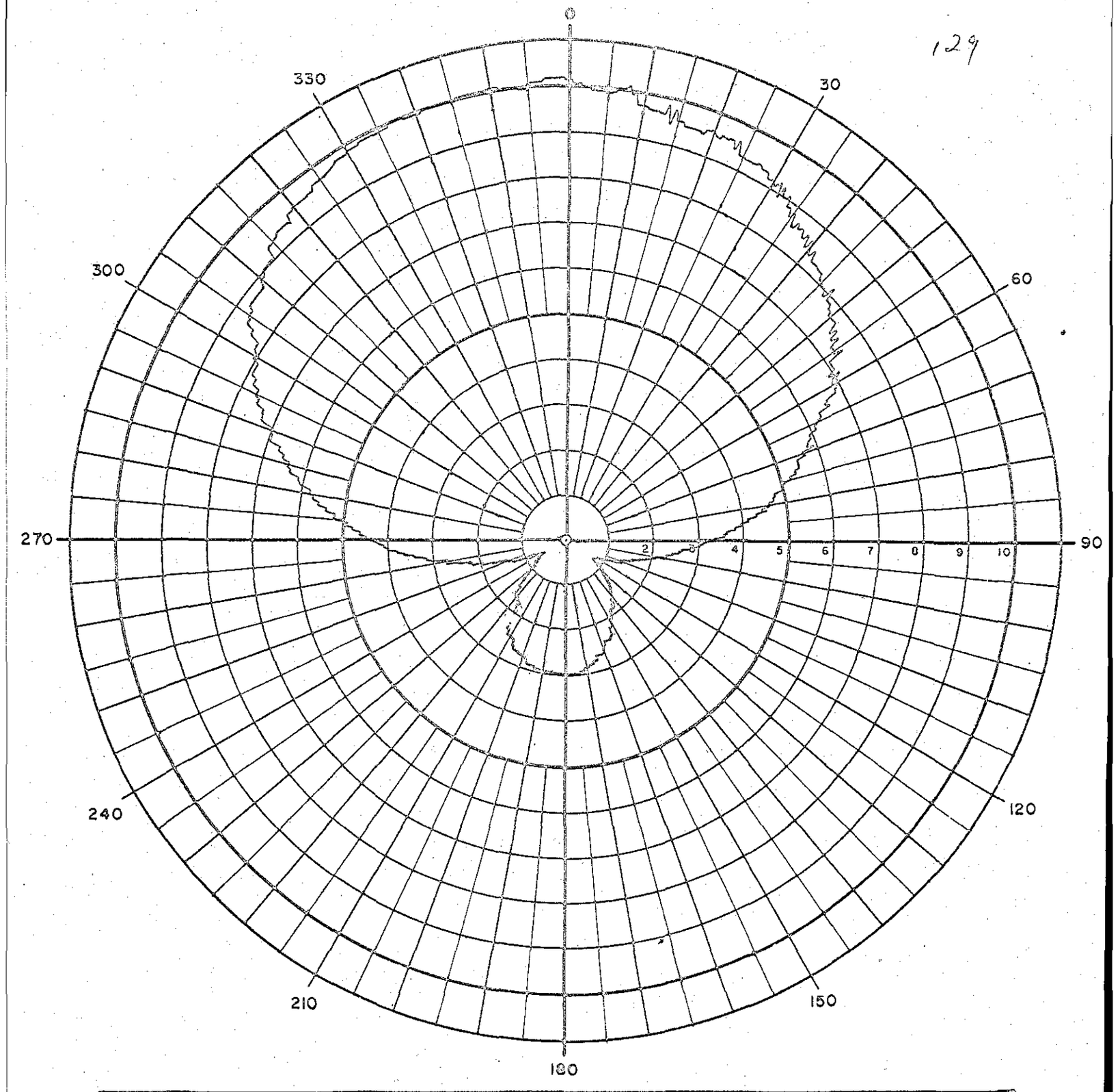
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JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS

129



ANTENNA: _____ PATTERN NO.: _____

POLARIZATION: _____ CUT: ϕ= _____ θ= _____ DATE: _____

REMARKS: _____ FREQUENCY: 78

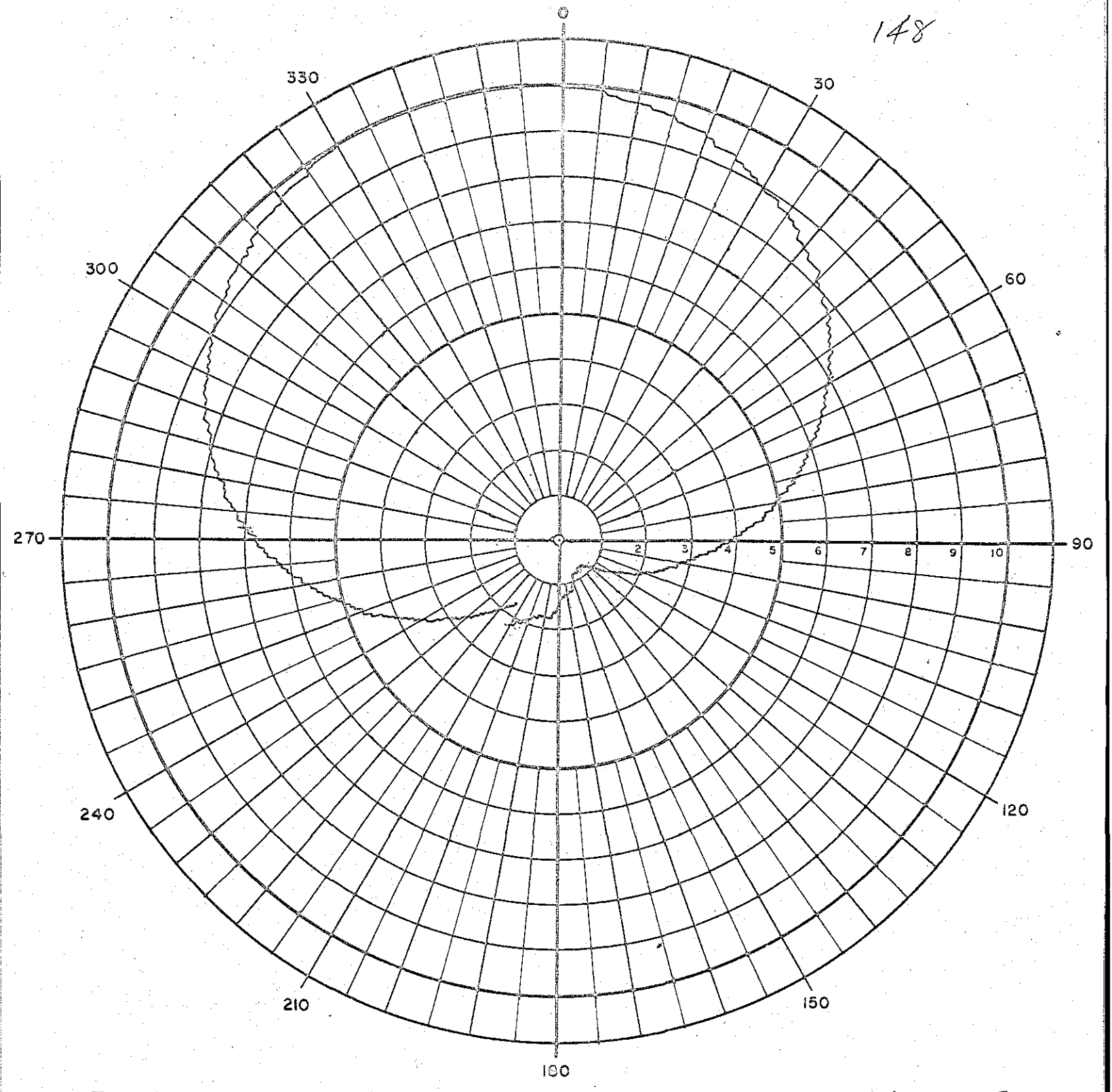
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JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS

148



ANTENNA: _____ PATTERN NO.: _____

POLARIZATION: _____ CUT: ϕ= _____ θ= _____ DATE: _____

REMARKS: _____ FREQUENCY: 80

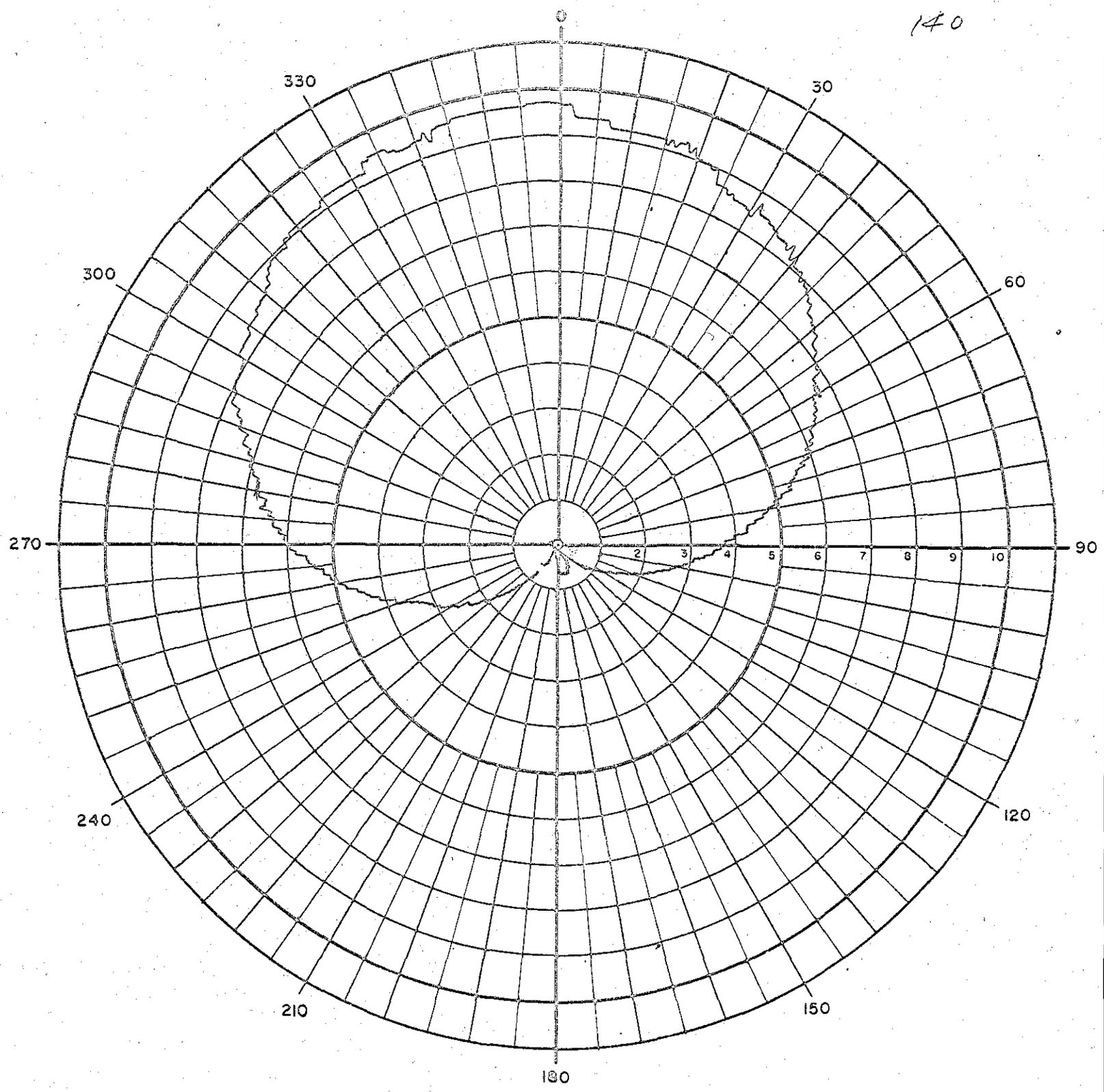
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JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS

140



ANTENNA: _____ PATTERN NO.: _____

POLARIZATION: _____ CUT: ϕ= _____ θ= _____ DATE: _____

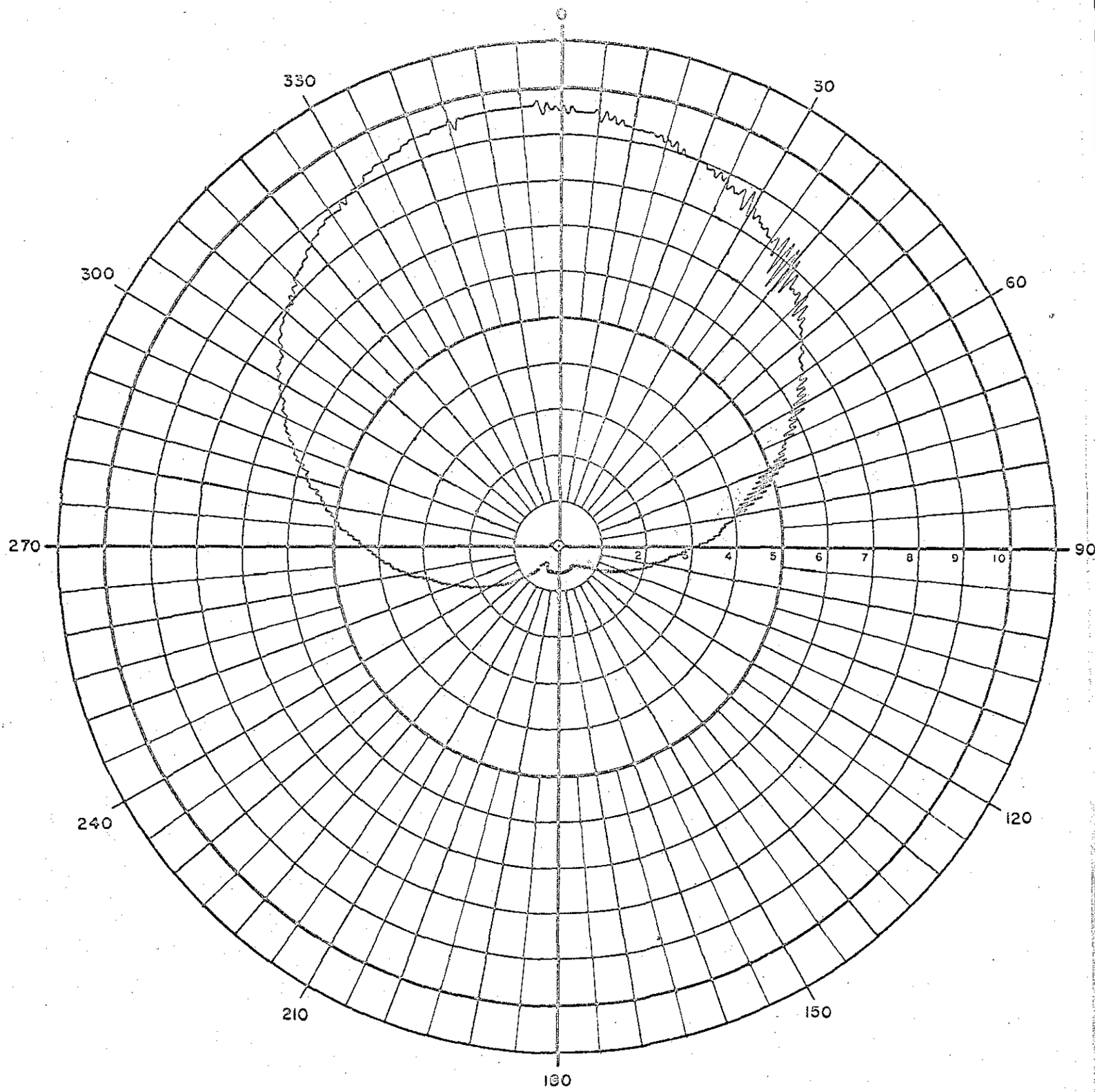
REMARKS: _____ FREQUENCY: 82

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JFD RESEARCH & DEVELOPMENT LABS, INC.

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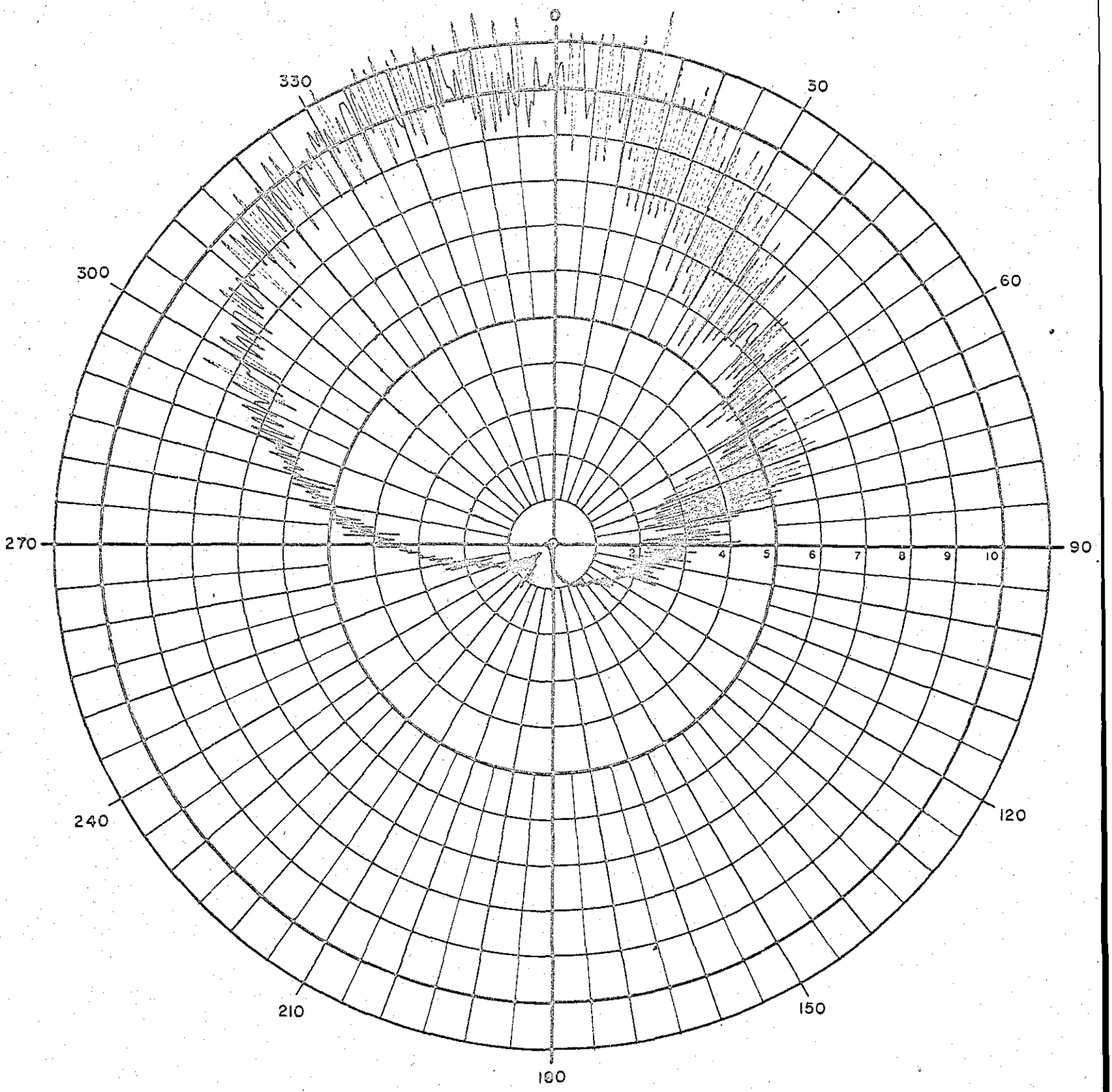
ANTENNA: _____ PATTERN NO.: _____

POLARIZATION: _____ CUT: ϕ= _____ θ= _____ DATE: _____

REMARKS: _____ FREQUENCY: 824

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS



ANTENNA: _____ PATTERN NO.: _____

POLARIZATION: _____ CUT: ϕ= _____ θ= _____ DATE: _____

REMARKS: _____ FREQUENCY: 86

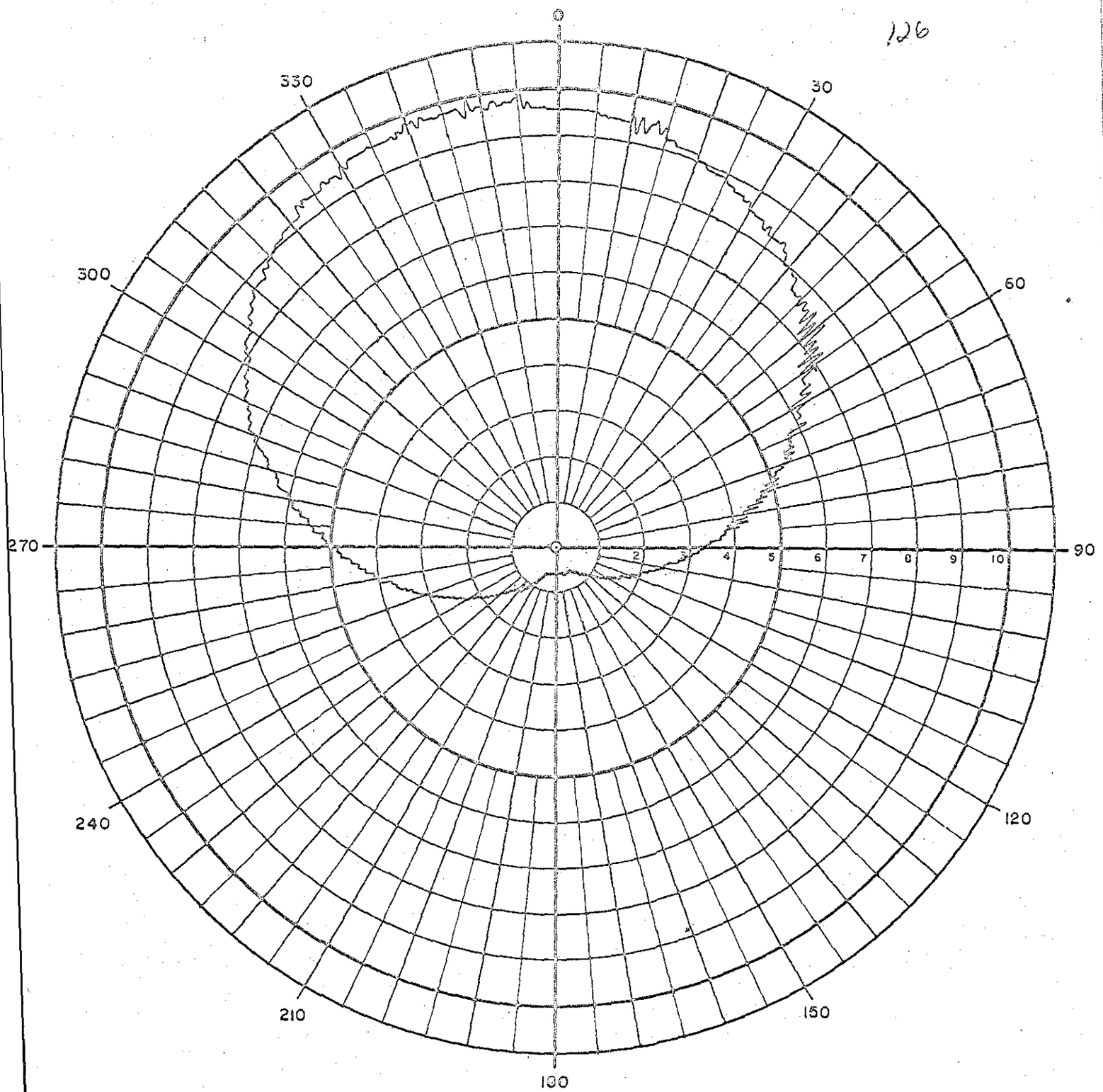
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JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS

126



ANTENNA: _____ PATTERN NO.: _____

POLARIZATION: _____ CUT: ϕ= _____ θ= _____ DATE: _____

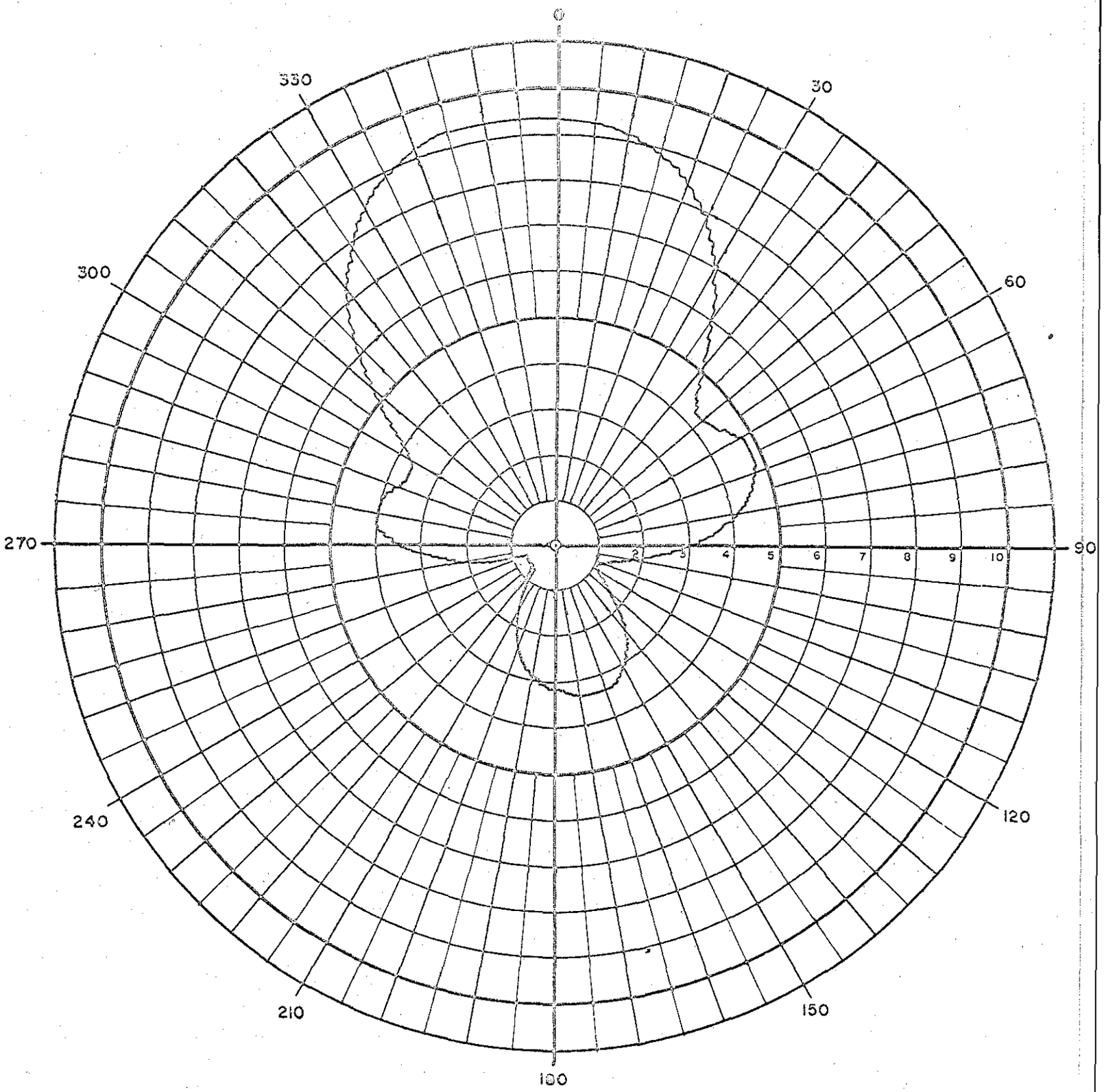
REMARKS: _____ FREQUENCY: 88

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_____

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS



ANTENNA: VULPV 18

POLARIZATION: H CUT: ϕ= θ=

REMARKS:

PATTERN NO.:

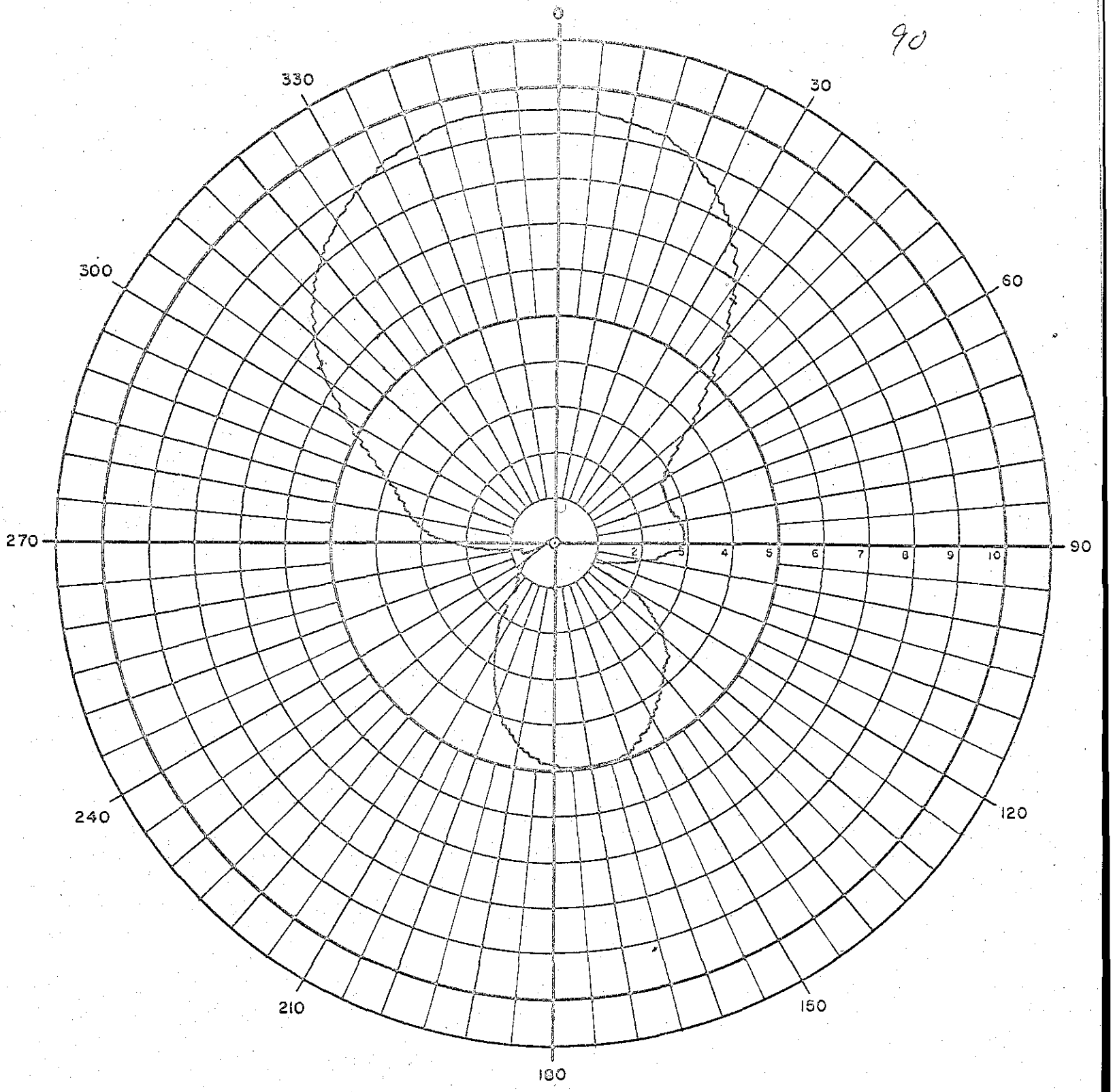
DATE: 12-4-63

FREQUENCY: 1616

J.F.D RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS

90



ANTENNA: VILPV-18 PATTERN NO.:

POLARIZATION: H CUT: ϕ= θ= DATE: 12-4-63

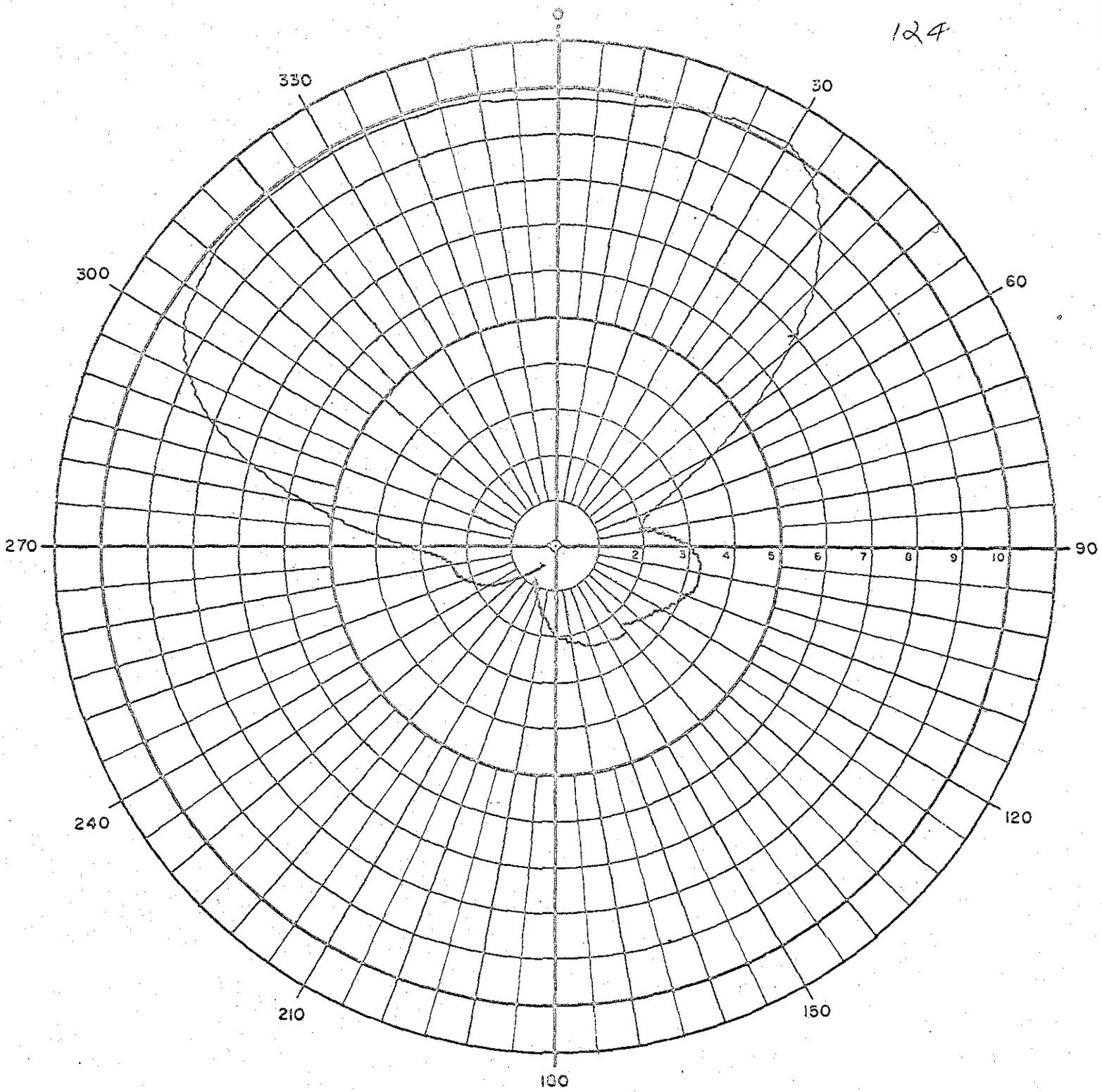
REMARKS: FREQUENCY: 162 mc

HH

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS

124



ANTENNA: VULPV-18 PATTERN NO.:

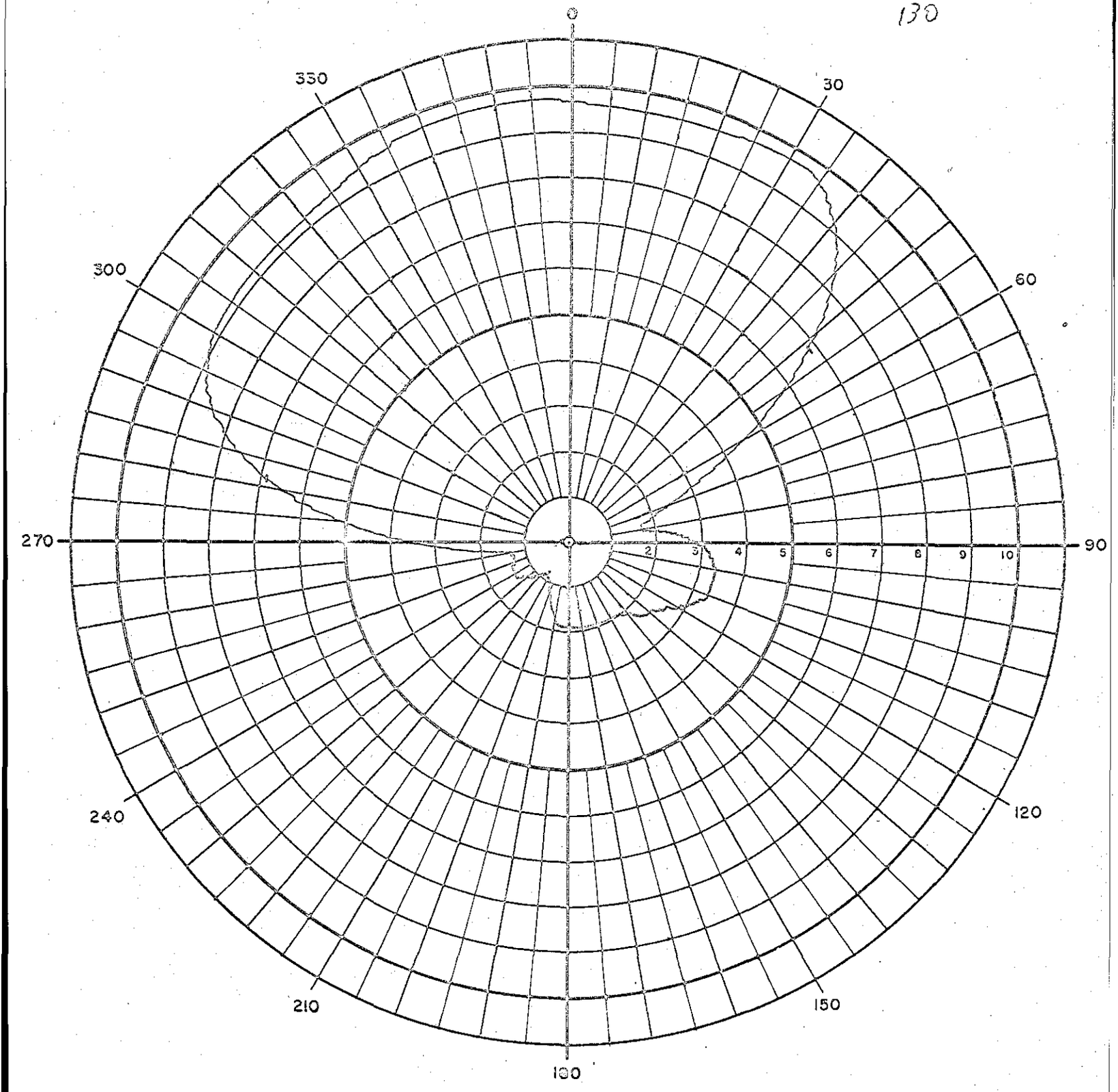
POLARIZATION: H CUT: ϕ= Θ= DATE: 12-9-63

REMARKS: FREQUENCY: 174 mc

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS

130



ANTENNA: VHF-30 PATTERN NO.:

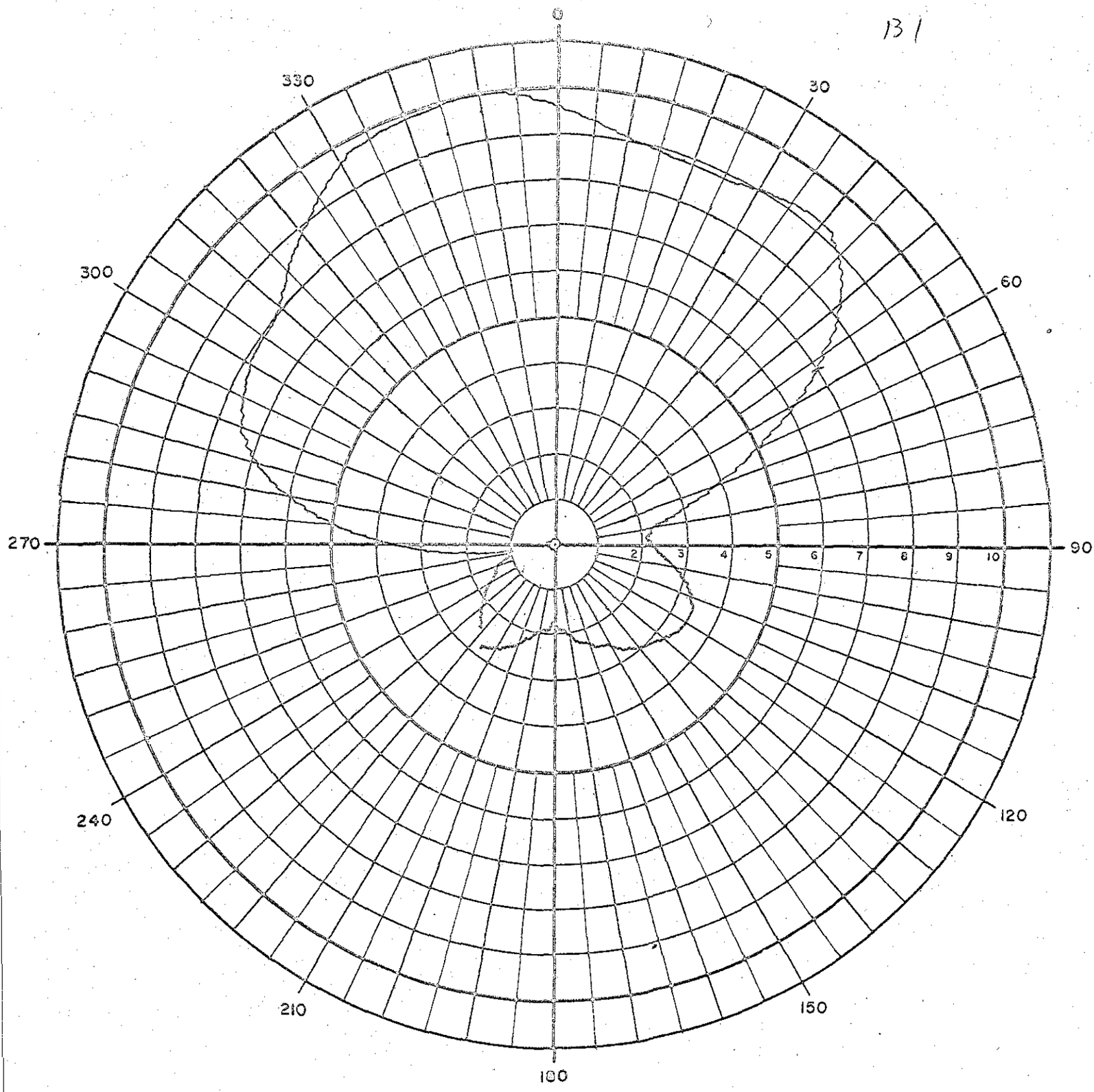
POLARIZATION: H CUT: ϕ= θ= DATE: 12-4-63

REMARKS: FREQUENCY: 176 mc

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714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS

13 1



ANTENNA: VULPV-1B

POLARIZATION: (V) CUT: ϕ= Θ=

REMARKS:

PATTERN NO.:

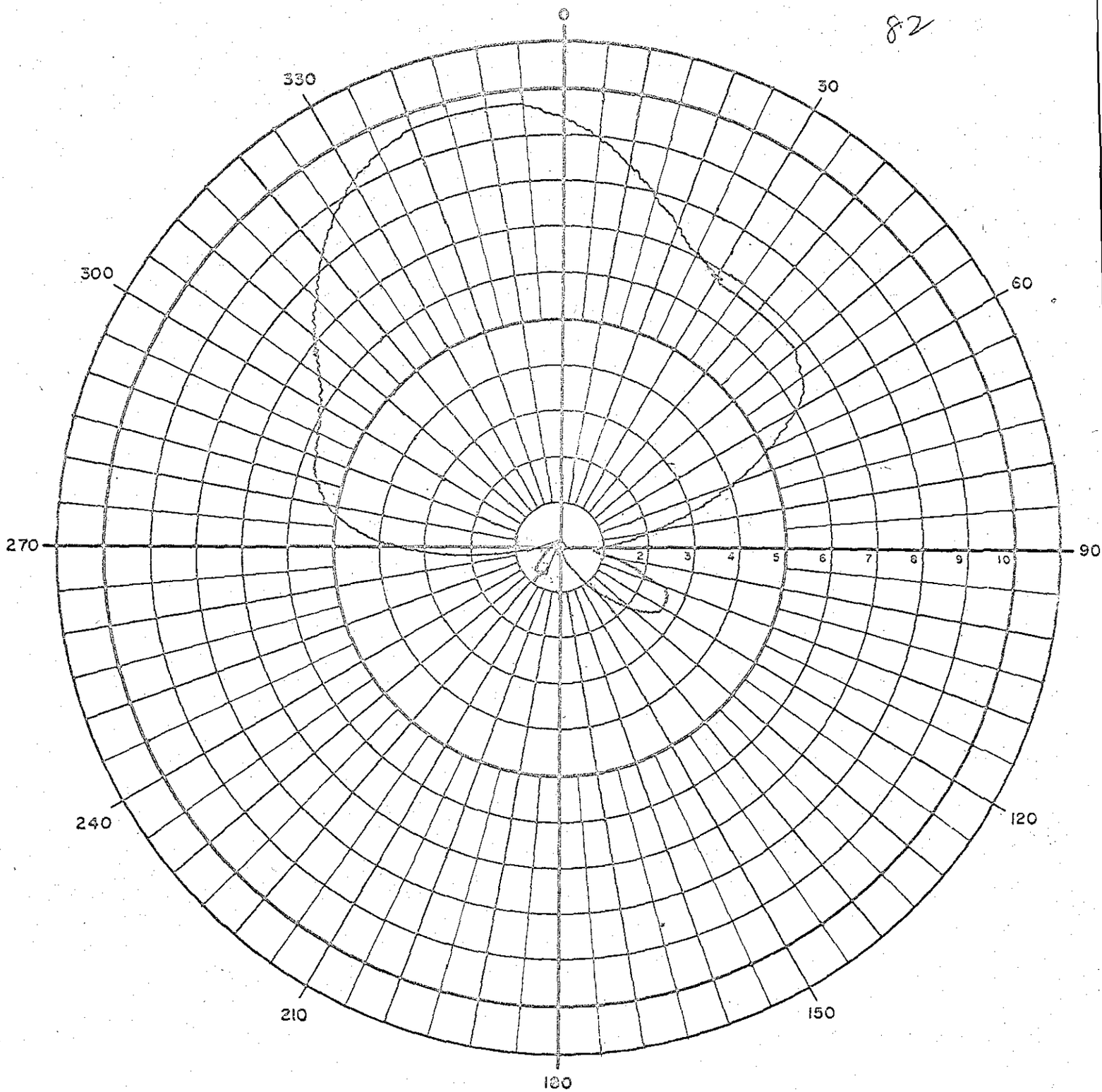
DATE: 12-4-69

FREQUENCY: 180

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS

82



ANTENNA: VULPV-10

POLARIZATION: H CUT: ϕ= θ=

REMARKS:

PATTERN NO.:

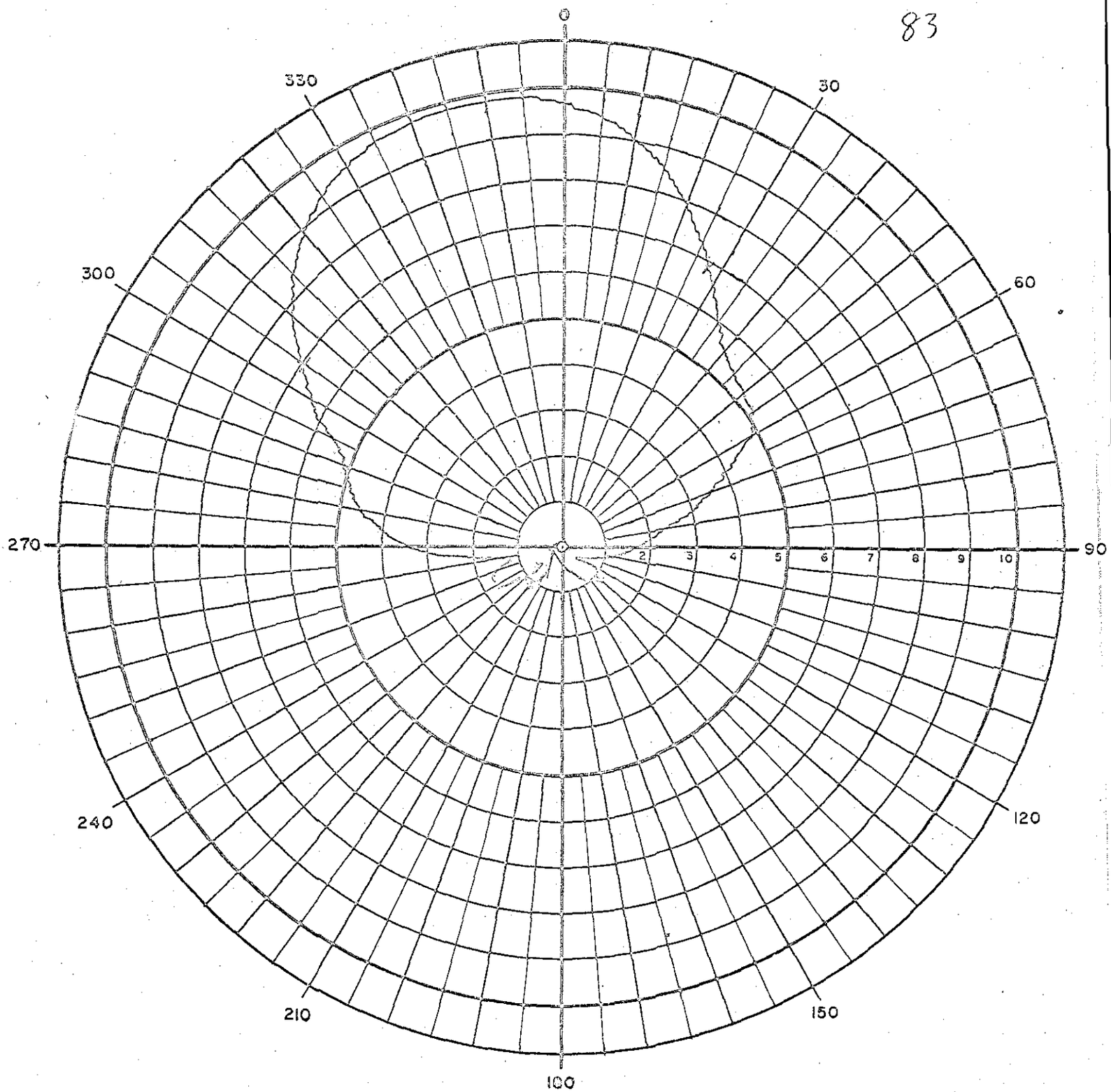
DATE: 12-4-63

FREQUENCY: 184

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS

83



ANTENNA: VOL PV-18

POLARIZATION: H CUT: ϕ= θ=

REMARKS:

PATTERN NO.:

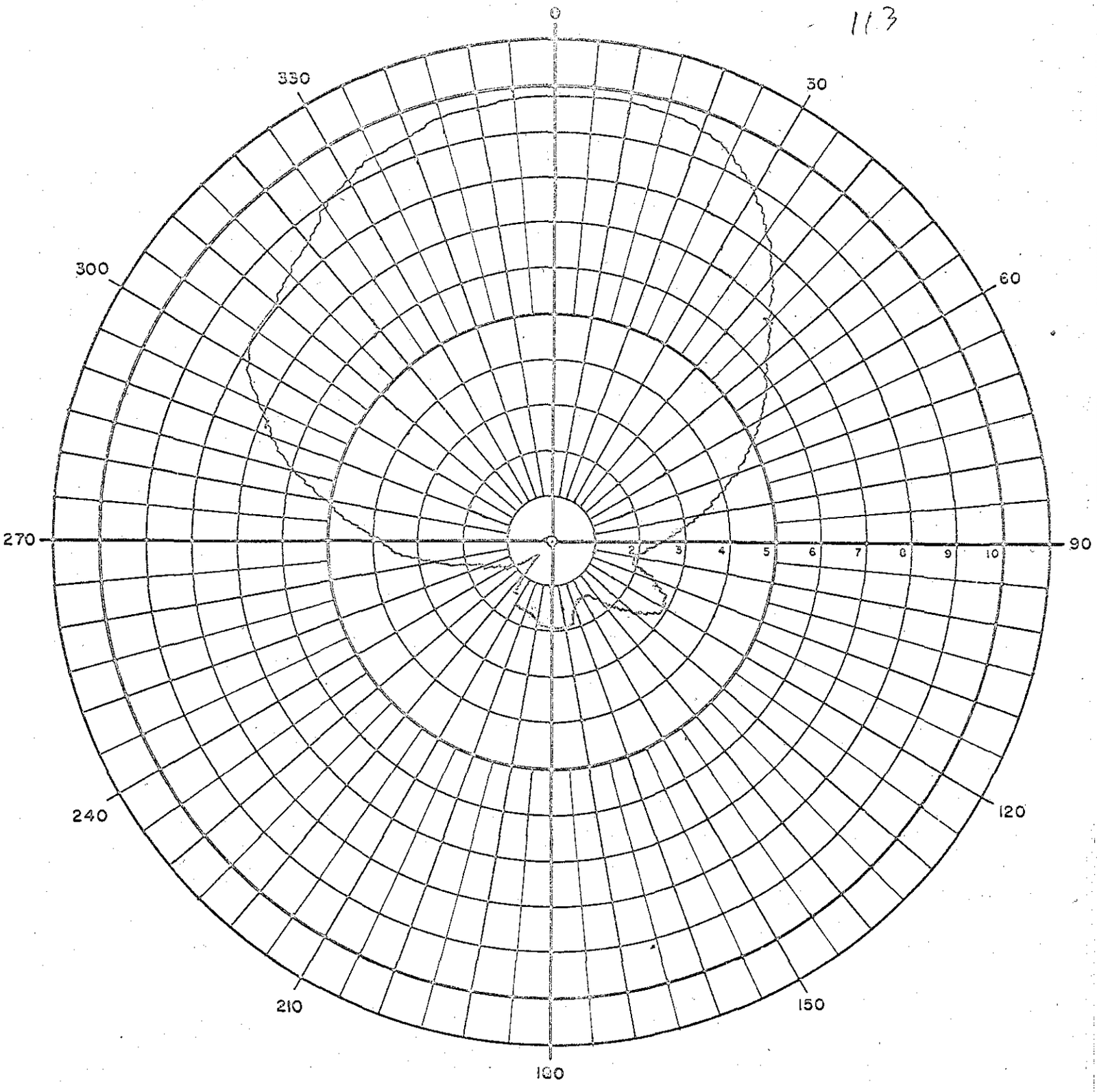
DATE: 12-4-63

FREQUENCY: 192 mc

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS

113



ANTENNA: VULPV -18

POLARIZATION: H CUT: ϕ= θ=

REMARKS:

PATTERN NO.:

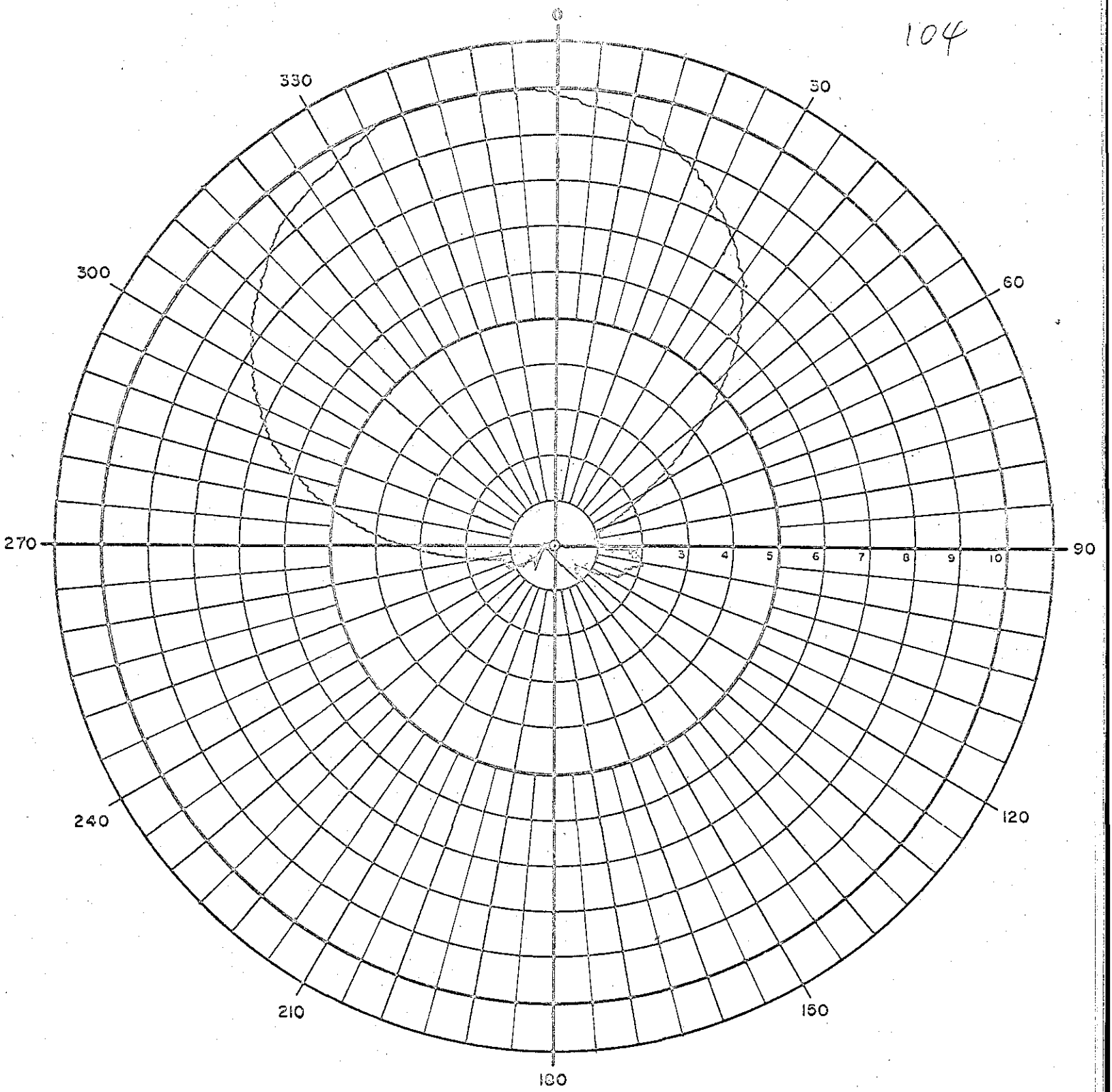
DATE: 11-4-63

FREQUENCY: 198 mc

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS

104



ANTENNA: VULPV-10

POLARIZATION: H CUT: ϕ= Θ=

REMARKS:

PATTERN NO.:

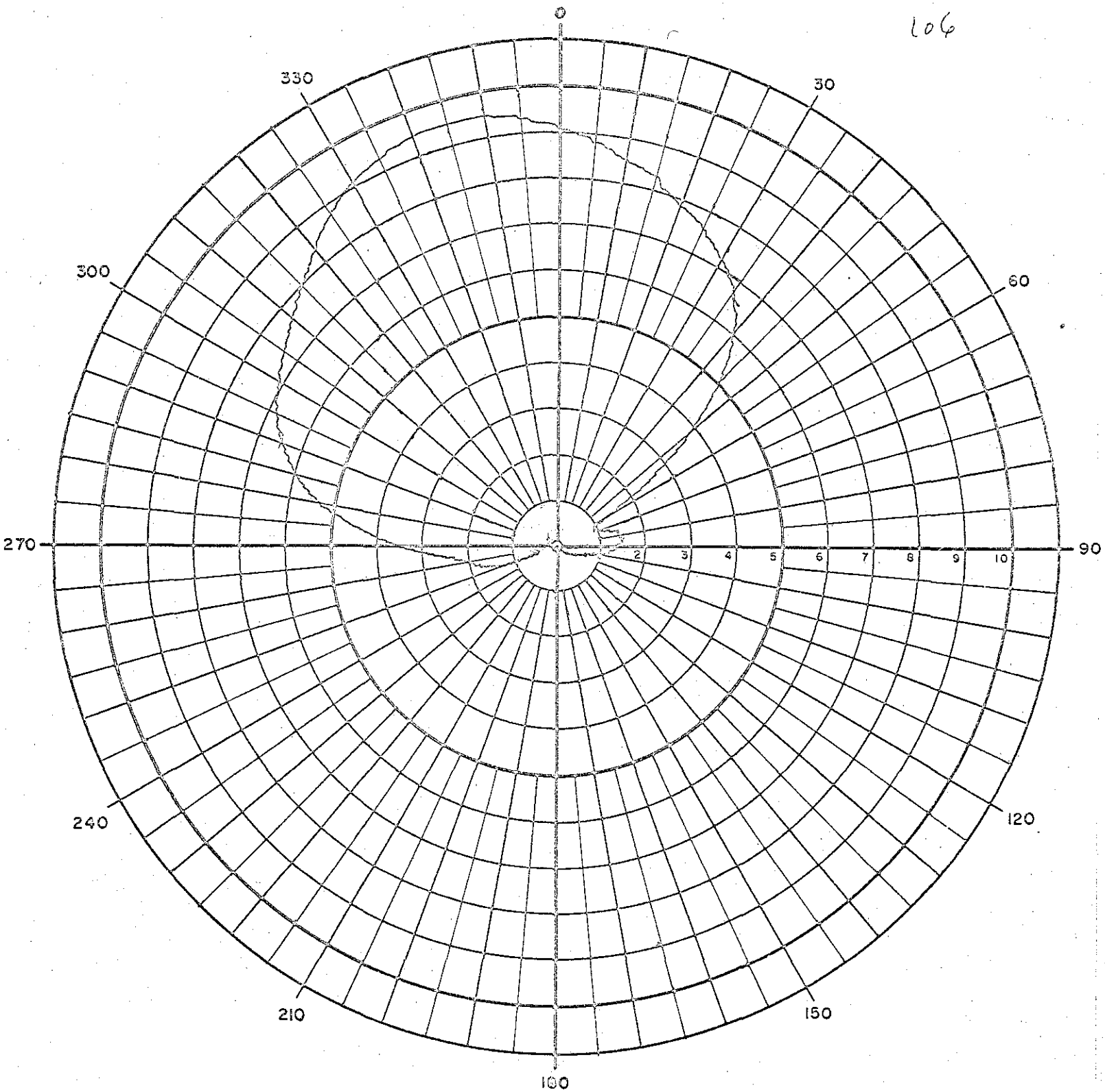
DATE: 12-4-53

FREQUENCY: 204 mc

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS

106



ANTENNA: VHF PV-16

POLARIZATION: H CUT: φ= θ=

REMARKS:

PATTERN NO.:

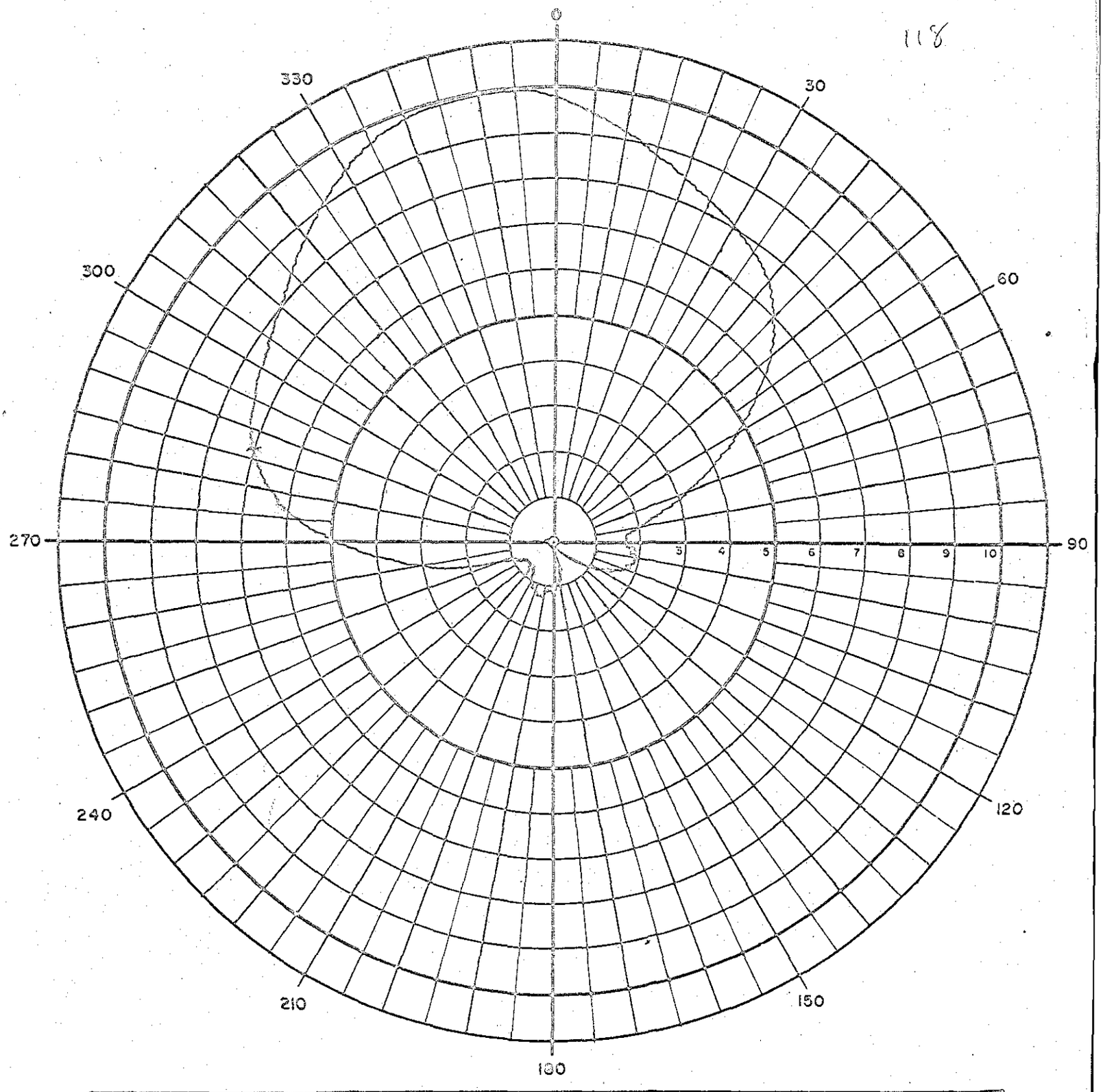
DATE: 12-4-63

FREQUENCY: 210

JFD RESEARCH & DEVELOPMENT LABS, INC.

714½ SO. RANDOLPH CHAMPAIGN, ILLINOIS

118



ANTENNA: VUEPI-18 PATTERN NO.:

POLARIZATION: H CUT: ϕ= θ= DATE: 12-4-63

REMARKS: FREQUENCY: 218 mc

LAW OFFICES

AXEL A. HOFGREN
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JOHN REX ALLEN
WILLIAM J. STELLMAN
JOHN B. McCORD
BRADFORD WILES
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DILLIS V. ALLEN
W. A. VAN SANTEN, JR.
JOHN R. HOFFMAN
A. R. OSTRAUSKAS

HOFGREN, WEGNER, ALLEN, STELLMAN & McCORD

20 NORTH WACKER DRIVE
CHICAGO 60606

TELEPHONE
FINANCIAL 6-1630
AREA CODE 312

October 31, 1966

VIA AIR MAIL

Mr. Isaac S. Blonder
Blonder Tongue Laboratories Inc.
9 Alling Street
Newark, New Jersey 07102

Dear Mr. Blonder:

* I enclose the first two volumes of the testimony you gave at the depositions last week. I discussed these with Bob and he thought it might be best for you to read them first to see whether you believe them to be correct. I don't think you will need copies of the University's exhibits as you have them available to you. I have enclosed
* copies of the JFD exhibits so that you can relate them to the testimony. I don't have a copy of the pencilled sketch, J-3. It may be this is still in the material Bob took back to Boston.

Very truly yours,

Richard S. Phillips

RSP:iag

* Enclosures

cc: Mr. Robert H. Rines

LAW OFFICES

AXEL A. HOFGREN
ERNEST A. WEGNER
JOHN REX ALLEN
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HOFGREN, WEGNER, ALLEN, STELLMAN & McCORD

20 NORTH WACKER DRIVE

CHICAGO 60606

TELEPHONE
FINANCIAL 6-1630
AREA CODE 312

October 31, 1966

VIA AIR MAIL

Mr. Robert H. Rines
c/o Mr. Isaac S. Blonder
Blonder Tongue Laboratories Inc.
9 Alling Street
Newark, New Jersey 07102

Dear Bob:

* I enclose copies of the radiation pattern diagrams for the LPV VU-18. I did not keep copies of this material in our file.

Very truly yours,

Richard S. Phillips

RSP:iag

* Enclosures

LAW OFFICES

AXEL A. HOFGREN
ERNEST A. WEGNER
JOHN REX ALLEN
WILLIAM J. STELLMAN
JOHN B. McCORD
BRADFORD WILES
JAMES C. WOOD
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RICHARD S. PHILLIPS
LLOYD W. MASON
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A. R. OSTRAUSKAS

HOFGREN, WEGNER, ALLEN, STELLMAN & McCORD

20 NORTH WACKER DRIVE
CHICAGO 60606

TELEPHONE
FINANCIAL 6-1630
AREA CODE 312

October 31, 1966

Mr. Basil P. Mann
Merriam, Marshall, Shapiro & Klose
30 West Monroe Street
Chicago, Illinois 60603

RE: U. of I. Foundation v. Blonder Tongue

Dear Pete:

* I enclose copies of lists of documents and other information which are to be produced by the various parties in the above suit. If your records do not agree with mine, please let me know so that there will be no misunderstanding on either side with regard to this material.

I understand from Mr. Costello that the materials we have requested from the University will be sent to you as soon as possible. Please let me know when you have them so that I can advise Bob Rines and he can arrange to come out and examine them.

Very truly yours,

Richard S. Phillips

RSP:lag

* Enclosures

cc: Mr. Robert H. Rines

University of Illinois Foundation v. Blonder Tongue v. JFD

Depositions 10/24/66
FOUNDATION EXHIBITS

U-1	Dart antenna	
U-1a	Hardware (bag)	
U-2	Instruction Sheet for Exhibit 1	
U-3	Golden Arrow	
U-3a	Mounting hardware - Golden Arrow	
U-4	Golden Arrow instruction sheet	
U-5	Golden Arrow carton	
U-6	Manufacturing drawing-wire forms - Dart	Earlier SK0527
U-7	Manufacturing drawing-wire forms - Dart	Later MD-1551-6
U-8	Manufacturing drawing - wire forms - Arrow	MC-1658-C
U-9	Schenfeld notebook No. 4	
U-10	Wickert letter to Tongue - 7/25/66	

BLONDER TONGUE IS TO BE PROVIDED THE FOLLOWING INFORMATION:

A. From JFD

1. Data for the gain curve of Exhibit B-33

2. Names of the parties who took the data

3. Insulator part drawing 123950001

4. Documents relating to the purchase and shipment of a B-T antenna (DART and/or ARROW) by JFD to JFD Laboratories

B. From the University of Illinois Foundation

1. Reports prepared by Isbell relating to log periodic antenna work

2. Copies of technical articles relating to the log periodic antenna work at the University of Illinois Antenna Laboratory

3. Access to and copies of the notebooks or other laboratory records of work done by or under the supervision of Isbell, Carrel or Mayes

4. Copies of the invention disclosures relating to Isbell 3,210,767 and Mayes & Carrel 3,108,280

5. Documents relating to the grant from the University of Illinois Foundation to Prof. Mayes relating to the adaptation of a periodic log antenna to the VHF television frequencies, including

   a. The request by Prof. Mayes for support

   b. The agreement, if any, between the Foundation and Prof. Mayes

   c. Any documentary evidence of the consideration given or action taken by the Foundation with respect to the request

   d. Reports by Prof. Mayes or anyone who is connected with the Foundation relating to the work supported by the Foundation

   e. Identify by name and present address the technicians who worked with Prof. Mayes in developing the antenna for the Foundation

C. From Prof. Mayes or the Foundation

1. With regard to the meeting at which there was a discussion of the use of pictures of Prof. Mayes and University buildings, the University name and the like in advertising by JFD

   a. The name, title and address of all persons who attended the meeting

   b. Copies of any materials provided to those attending the meeting to illustrate the nature of the advertising which was discussed

   c. Copies of minutes, reports or the like resulting from the meeting

2. Exhibit A of the Mayes-JFD consulting agreement - B-24

3. A copy of the current Mayes-JFD consulting agreement

4. Copies of all minutes of meetings of the Foundation Board bearing on the license with JFD and its administration

5. Proposed ads from UIF and MMSK files

6. Correspondence relating to advertising and subsequent to that already produced

7. Letters from UI to UIF releasing the Mayes and Carrel inventions

BLONDER TONGUE TO GET FOR U/I FOUNDATION AND JFD

1. Dart and Arrow instructionsheets - earlier
2. Dart and Arrow instruction sheets - most recent
3. Insulator drawing - Dart and Arrow
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5. Search for prior publication re periodic or log-periodic antennas
6. Early antennas used in tests - ship out for examination
7. Any other log antennas - ship out for examination
8. Check BT files for Wickert letter of 7/25/66

JFD

9. When did BT buy latest JFD double boom antenna - purchase order - before or after 9/1/66
10. Prosecution information re foreign patents - on BT antenna

CC 9 & 7

11. Antitrust - give Sherman and Clayton Act Sections
12. LPV-TV - Test results and reports
13. LPV-VU - Test results and reports
14. Schenfeld residence address
15. Prints and technical reports re Color Ranger (but omit clamp - antenna only)
16. Any indemnification letters other than those already produced
17. All documents regarding adoption of the trademark RANGER for all antennas
18. Date of instruction sheet for RANGER
19. Invoice - first commercial sale - ARROW
    Invoice - first commercial sale - DART
    Invoice - first commercial sale - COLOR RANGER

20. Invoice for insulator mold - ARROW, DART

21. Information re double boom antennas of others which do and do not infringe the Blonder patent

22. Any requests for licenses under Blonder 3,259,904

23. Home address of Jerry Cohn
Home address of Lineman

24. Identify JFD ads which show all elements of claim 5, Blonder 3,259,904

25. Identify front end feed, strain relief and mast mounting in such ads

26. Identify JFD ads with false patent marking

27. Check LPV VU and LPV TV for false patent marking

28. Provide reports of field tests of Blonder Tongue antennas

29. List of patent infringement suits involving Blonder Tongue

30. List customers and potential customers lost by Blonder Tongue as a result of JFD and UIF misconduct

31. Provide evidence regarding loss of sales by Blonder Tongue, if it appears that such evidence is properly discoverable in an antitrust action

LAW OFFICES

HOFGREN, WEGNER, ALLEN, STELLMAN & McCORD

20 NORTH WACKER DRIVE

CHICAGO 60606

TELEPHONE
FINANCIAL 6-1630
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AXEL A. HOFGREN
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JOHN P. MILNAMOW
DILLIS V. ALLEN
W. A. VAN SANTEN, JR.
JOHN R. HOFFMAN
A. R. OSTRAUSKAS

October 31, 1966

Mr. Myron C. Cass
Silverman & Cass
105 West Adams Street
Chicago, Illinois 60603

RE: U. of I. Foundation v. Blonder Tongue

Dear Mr. Cass:

* I enclose copies of lists of documents and other information which are to be produced by the various parties in the above suit. If your records do not agree with mine, please let me know so that there will be no misunderstanding on either side with regard to this material.

Very truly yours,

Richard S. Phillips

RSP:iag

* Enclosures

cc: Mr. Robert H. Rines

LAW OFFICES

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20 NORTH WACKER DRIVE

CHICAGO 60606

TELEPHONE
FINANCIAL 6-1630
AREA CODE 312

October 31, 1966

VIA AIR MAIL

Mr. Robert H. Rines
c/o Mr. Isaac S. Blonder
Blonder Tongue Laboratories Inc.
9 Alling Street
Newark, New Jersey 07102

Dear Bob:

* I enclose copies of the lists of exhibits identified on behalf of all the parties at the depositions. This should replace the prints you have of my pencilled notes.

* I also enclose two copies of the lists of material which Blonder Tongue is to provide to the Foundation and JFD and of the information to be provided by JFD, the Foundation and Prof. Mayes.

I had a phone call this morning from Sidney Fox. They have been unable to locate the documents which were identified during the depositions as J-2 through J-7. Except for J-6, these are all things which were produced on behalf of Blonder Tongue and it is possible that the marked originals are still in your possession. If they are, I suggest you have copies made and send the originals to me.

Good hunting with Mr. Finkle.

Sincerely yours,

Dick

Richard S. Phillips

RSP:iag

* Enclosures

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w/Ltr 10/31

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Rec'd 12/9

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JFD

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    Invoice - first commercial sale - DART
    Invoice - first commercial sale - COLOR RANGER

Boom Tongue

Tongue for U/T Foundation and JFD

1. Instruction Sheets earlier Dart & Arrow
2. " " most recent
3. Insulator drawing: DART & ARROW -
4. Check Schenfeld notebook for data on boom spacing - antennas
5. Search for any specifications re foiolator on log-periodic
6. Early use of antennas - Sharp used in Tests for examination
7. Any data on antennas "
8. Check BT files for Wickert letter of 7/25/66
9. When did BT buy later JFD double boom antenna
   Purchase Order before on or by 9/1/66
10. Promotion use re foreign patent
11. Patent gave Sherman & Clayton Hall
12. LPV-TV - Test results & report
13. LPV-VU - " " & "
14. Schenfeld residence address

Set

15. Print & technical reports re Color Ranger ~~Set~~ Set
    Joint Comp - already
16. Any other indemnification letters other than those already produced
17. All documents regarding adoption of the TM Ranger for all antennas.
18. Date of instruction sheet for ~~Color~~ Ranger
19. Invoice Set Commercial Sale - Arrow
    " " Dart
    " " Color Ranger
20. Invoice for insulator mold - Arrow Dart
21. Info re double boom antennas - of others which do & don't infringe the Blonder Tongue & Stanley & Stanley & Depeau-Finney

(over)

Identify TD and which shows all elements of Block - Cl 5

identify front end feeding - Strain relief - mechanical clamping - in all

Identify all reference point markings

Check LPV VU & TV - reference point markings

Report of field test of BT antennas -

Ref. in f.

List of faults involving B.T.

~~Testing~~ Customers lost

Sales lost - (One antitrust)

Potential customers lost

U.S 3,016,510

BLONDER-TONGUE

Laboratories Inc. / 9 Alling St., Newark, N. J. 07102 / 201 MArket 2-8151

RECEIVED
NOV - 3 1966
RINES AND RINES
NO. TEN POST OFFICE SQUARE, BOSTON

November 2, 1966

Mr. Robert H. Rines
Rines & Rines
Ten Post Office Square
Boston, Massachusetts

Dear Bob:

I kept one copy of the list of materials Blonder-Tongue is to provide.

Should I ship them out as I get them or collect them?

Sincerely,

Blonder-Tongue Laboratories, Inc.

Isaac S. Blonder
Chairman of the Board

ISB:dal
Enc.

LAW OFFICES

AXEL A. HOFGREN
ERNEST A. WEGNER
JOHN REX ALLEN
WILLIAM J. STELLMAN
JOHN B. McCORD
BRADFORD WILES
JAMES C. WOOD
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A. R. OSTRAUSKAS

HOFGREN, WEGNER, ALLEN, STELLMAN & McCORD

20 NORTH WACKER DRIVE
CHICAGO 60606

TELEPHONE
FINANCIAL 6-1630
AREA CODE 312

November 3, 1966

Mr. I. S. Blonder
Blonder Tongue Laboratories Inc.
9 Alling Street
Newark, New Jersey 07102

Dear Mr. Blonder:

I enclose two volumes of your testimony. I think pages 139 through 290 correspond with one of the volumes I sent you earlier, but with the pages renumbered.

I received the copies of your drawings of the wire forms for the DART and ARROW antennas and have sent them on to the attorneys for JFD and the Foundation.

Very truly yours,

Richard S. Phillips

RSP:lag

Enclosures

cc: Mr. Robert H. Rines

RECEIVED
NOV - 7 1966
RINES AND RINES
NO. TEN POST OFFICE SQUARE, BOSTON

November 9, 1966

Richard S. Phillips, Esq.
Hofgren, Wegner, Allen, Stellman & McCord
20 North Wacker Drive
Chicago, Illinois 60606

Re: UIF v. BT v. JFD -Cross Claim

Dear Mr. Phillips:

Acknowledging your letter of November 2nd with enclosures, since we are pushed for time, we would appreciate it if you would file any necessary answer to the JFD cross claim.

Very truly yours,

RINES AND RINES

MGH

By_____

11/9

Helen

Pueblos Chi- ... JFD

LAW OFFICES

HOFGREN, WEGNER, ALLEN, STELLMAN & McCORD

20 NORTH WACKER DRIVE

CHICAGO 60606

TELEPHONE
FINANCIAL 6-1630
AREA CODE 312

AXEL A. HOFGREN
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JOHN REX ALLEN
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J. R. STAPLETON
WILLIAM R. McNAIR
JOHN P. MILNAMOW
DILLIS V. ALLEN
W. A. VAN SANTEN, JR.
JOHN R. HOFFMAN

November 2, 1966

Mr. Robert H. Rines
Rines and Rines
No. Ten Post Office Square
Boston, Massachusetts 02109

Dear Bob:

* I enclose a copy of the *JFD* reply and a cross-claim with respect to mismarking of a Blonder Tongue patent. The defenses with regard to the charge of infringement of the Blonder Tongue patent include all the standard recitals without any specific allegations. Paragraph F, page 7, advances a novel ground for invalidity that no claim of the patent is generic to the two species disclosed.

Will you prepare the answer to the cross-claim or should we?

Very truly yours,

Dick

Richard S. Phillips

RSP:iag

* Enclosure

RECEIVED
NOV - 4 1966
RINES AND RINES
NO. TEN POST OFFICE SQUARE, BOSTON

SEND TO R. RINES
PER I.S. BLONDER

Blonder-Tongue's Antenna Charges Denied by JFD

CHICAGO. — JFD Electronics Co., Brooklyn, N. Y., joined the University of Illinois Foundation in denying in Federal Court that they conspired to restrain competition in television and FM antennas and infringe a patent owned by Blonder-Tongue Laboratories, Inc.

JFD says it was formerly known as JFD Electronics Corp. and is now a division of Stratford Retreat House, a religious corporation authorized under New York State law.

The conspiracy and infringement charges are in Blonder-Tongue's counterclaim to the foundation's suit charging B-T infringes Patent No. 3,210,767, for frequency-independent, unidirectional antennas for television and radio. B-T, Newark, N. J., denied the charge and asked for judgment that the patent is invalid and not infringed.

JFD, exclusive licensee under the foundation's patent, denies it and the foundation changed the design of some of their antennas to copy the invention claimed in B-T's Patent No. 3,259,904, for ultra-high-frequency antennas with combined support and lead-in. B-T's patent, JFD charges, is invalid because of prior art and patents.

B-T says antennas covered by its patent are accused of infringing the foundation's patent.

JFD and the foundation also deny they have falsely represented that the foundation's patent embraces all antennas of the so-called log-periodic type and that only JFD has the right to make such antennas. And they deny they have falsely labeled and disparaged competitor's products.

JFD charges further that B-T uses Patent No. 3,016,510 on Golden Dart antennas to deceive the public. It charges B-T knows the patent does not cover certain Golden Dart antennas.

It asks the court to enjoin B-T from further allegedly false use of the patent number, fine B-T $500 for each instance of false patent marking and award it half the fine.

RECEIVED
NOV - 8 1966
RINES AND RINES
NO. TEN POST OFFICE SQUARE, BOSTON

November 14, 1966

Mr. James J. Costello
Legal Counsel
University of Illinois
258 Administration Building
Urbana, Illinois

RE: University of Illinois Foundation v.
Blonder-Tongue v. JFD

Dear Mr. Costello:

Pete Mann advised me that some of the records which we have requested from the Foundation were University documents. Accordingly, I have directed another subpoena * to Prof. Mayes. A copy is enclosed for your information. If there is any question, please call me.

Very truly yours,

Richard S. Phillips

RSP:lag

* Enclosure

cc: Prof. Paul E. Mayes
Mr. Basil P. Mann
Mr. Myron C. Cass
Mr. Robert M. Rines

CIVIL SUBPOENA TO PRODUCE DOCUMENT OR OBJECT — D. C. Form No. 48 (Rev. 2-57)

United States District Court

FOR THE

THE UNIVERSITY OF ILLINOIS FOUNDATION,
Plaintiff and Counterclaim Defendant,
vs.
BLONDER-TONGUE LABORATORIES, INC.,
Defendant and Counterclaimant,
vs.
JFD ELECTRONICS CORPORATION,
Counterclaim Defendant.

CIVIL ACTION FILE NO. .....

No. 66 C 567

TO: Paul E. Mayes
Room 455, Electrical Engineering Building
University of Illinois
Urbana, Illinois

YOU ARE HEREBY COMMANDED to ~~appear in the United States District Court for the~~ produce for inspection and ~~District of~~ copying at the offices of Merriam, ~~at~~ Marshall, Shapiro & Klose, ~~in the city of~~ 30 West Adams Street, in the ~~the~~ ~~day of~~ ~~19~~ ~~at~~ ~~o'clock~~ ~~to~~ ~~testify on behalf of~~ city of Chicago, Illinois, the following:

~~in the above entitled action and bring with you~~
1. Reports prepared by Dwight E. Isbell relating to log periodic antenna work.
2. Copies of all technical articles relating to the log periodic antenna work at the University of Illinois Antenna Laboratory.
3. The notebooks or other laboratory records of work done by or under the supervision of Dwight E. Isbell, Robert L. Carrel or Paul E. Mayes, relating to log periodic antennas.

November 14, 1966.
Hofgren, Wegner, Allen,
Stellman & McCord
Attorney for
Blonder-Tongue Laboratories, Inc.
Address
20 North Wacker Drive
Chicago, Illinois 60606

Robert A. Wagner Jr., *Clerk.*
By William C. Kelly, *Deputy Clerk.*

RETURN ON SERVICE

Received this subpoena at ..... on .....
and on ..... at .....
served it on the within named .....
by delivering a copy to h ..... and tendering to h ..... the fee for one day's attendance and the mileage allowed by law.[1]

Dated:
....., 19.....

.....,
By .....

Service Fees
Travel .....$
Services .....
Total .....$

Subscribed and sworn to before me, a ..... this
day of ....., 19 .

.....

[1] Fees and mileage need not be tendered to the witness upon service of a subpoena issued in behalf of the United States or an officer or agency thereof. 28 USC 1825.

NOTE.—Affidavit required only if service is made by a person other than a United States Marshal or his deputy.

CHARLES J. MERRIAM
WILLIAM A. MARSHALL
JEROME B. KLOSE
NORMAN M. SHAPIRO
BASIL P. MANN
CLYDE V. ERWIN, JR.
ALVIN D. SHULMAN
EDWARD M. O'TOOLE
ALLEN H. GERSTEIN
OWEN J. MURRAY
DONALD E. EGAN
NATE F. SCARPELLI

LAW OFFICES
MERRIAM, MARSHALL, SHAPIRO & KLOSE
THIRTY WEST MONROE STREET
CHICAGO, ILLINOIS 60603

TELEPHONE
FINANCIAL 6-5750

November 23, 1966

RECEIVED
NOV 25 1966
HOFGREN, WEGNER, ALLEN, STELLMAN & McCORD

Mr. Richard S. Phillips
Hofgren, Wegner, Allen,
Stellman & McCord
Suite 2200
20 North Wacker Drive
Chicago, Illinois 60606

Re: University of Illinois Foundation
v. Blonder-Tongue Laboratories, Inc.
v. JFD Electronics Corporation
Civil Action No. 66 C 567

Dear Dick:

We have just received a copy of Mr. Finkel's deposition, but do not have copies of the new exhibits (i.e., Exhibits B-101 through B-113). Would you please supply me with a copy of these exhibits.

Very truly yours,

Basil P. Mann

BPM/mto

11/25 — Sent copy & Exhibits w/ request for copies — RLP

November 23, 1966

Mr. Myron C. Cass
Silverman & Cass
105 West Adams Street
Chicago, Illinois 60603

RE: UIP v. BT v. JFD

Dear Mike:

I have your letter of November 21 regarding the material to be produced. I have checked this against the list I sent you with my letter of October 31 and find only one item on your list which was not on mine. This is the listing of the prior art resulting from a search. I had not included it in my list as there was some question at the time regarding the propriety of the request. We have had subsequent correspondence on this.

I believe that item 8 of my list was clarified in the New York depositions of Mr. Pinkel. Item 11 was covered orally during the Chicago deposition.

Very truly yours,

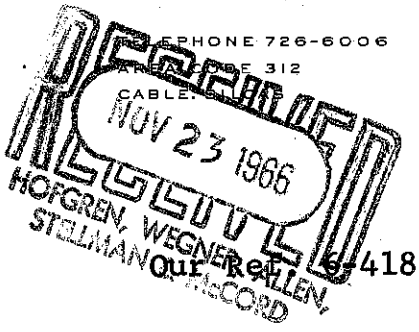
Richard S. Phillips

RSP:iag

cc: Mr. Robert H. Rines
Mr. I. S. Hlonder
Mr. Basil P. Mann

LAW OFFICES
Silverman & Cass
PATENTS · TRADEMARKS · COPYRIGHTS
105 W. ADAMS STREET · CHICAGO, ILLINOIS, U.S.A. 60603 · · · · · TELEPHONE 726-6006
AREA CODE 312
CABLE:
I. IRVING SILVERMAN
MYRON C. CASS
SIDNEY N. FOX
JAMES L. KNIGHT
GERALD R. HIBNICK, IND. BAR

November 21, 1966



Our Ref. S-418

Richard S. Phillips, Esq.
Hofgren, Wegner, Allen, Stellman & McCord
20 N. Wacker Drive - S. 2200
Chicago, Illinois

Re: U. of I. Foundation v. Blonder-Tongue v. JFD -
Civil Action No. 66 C 567.

Dear Dick:

To expedite discovery in compliance with the local rules, there is itemized below a list of items which were culled from Mr. Blonder's deposition as desired to be produced by you. The listing below also identifies the page of the transcript of Mr. Blonder's deposition on which reference is made to the item.

RBP List

Page No.		Item
9	154	Purchase Order for an antenna of the "new LPV series" referred to in J-2.
10	201	Information in respect of the prosecution of corresponding patent applications in any foreign countries (i.e., corresponding to patent in suit).
12	234	Reports on tests conducted on purchased LPV TV series antenna.
13	236	Results of tests and measurements conducted on "new antenna series of October 3, 1966". BT 33 (J-2) LPV-VU.
14	273	Schenfeld's residence address.

	Page No.	Item
	278	Search results "in Washington", listing of prior art located in this search.
16	293	Specific information and documents or tie-in sales and things of this sort.
15	293-4	Blueprints, specifications, notebooks, memoranda and technical reports, i.e., COLOR RANGER series with bracket portions omitted of blueprints.
16	299	Copies of all letters of indemnification that BT provided.
17	301	All documents relating to the adoption of the RANGER name on all of the antenna products of BT.
18	304	Date of publication of the instruction sheets for COLOR RANGER series antennas.
19	304	Invoices pertaining to the first commercial sale of the GOLDEN ARROW, GOLDEN DART and COLOR RANGER antennas.
20	304	Invoices and documents with respect to the mold produced for making the insulation parts of the GOLDEN DART and GOLDEN ARROW antennas.
21	313-314	Identification of antenna manufacturers other than JFD which make antennas believed to infringe the Blonder patent in suit, exhibit J-1, and identification of the specific antennas believed to infringe.
21	315	Identification of the model of the Finney UHF section that did not infringe the Blonder patent because it is a double boom made to have a substantially co-planar arrangement by putting "S" shaped devices in the dipoles.

Page No.	Item	
22	316	Any requests for licenses under J-1.
30,31	365	Salesmen, distributors, service people and everyone else involved in allegations of anti-trust - events, names, and specific evidence particularly relating to "drop your line or else be sued by JFD" communicated to BT by parts distributors.
23	376	Address of Jerry Cohn.
23	377	Last known address of John Lineman.
30	382-3	Data concerning customers who were threatened with suit if JFD's entire line was not handled exclusively.
24,25	404-5	"Identify, in any JFD advertising or any releases or advertising of the Foundation wherein the Foundation or JFD have publicized the features of the manner in which the transmission line is connected to the feed end of the antenna, that is, the end adjacent the rigid insulating means you referred to, and also the strain relief that we are referring to."
25	405	"Also in connection with the manner in which the antenna is mounted to the mast."
26,27	405-6	Identification of specific advertisements of JFD which show false marking. Also, cartons of JFD which have patent numbers that do not apply to actual antennas shipped in them.
27	406-7	Does false marking charges apply to LPV VU or LPV TV series?
28	408	Reports on field tests of BT GOLDEN DART and GOLDEN ARROW antennas.
29	411	Listing of patent infringement suits brought by BT.
30	425-6	Information as to loss of sales and customers lost (names, addresses, dates and descriptive details with respect to each instance which will be relied upon)

Page No.	Item
425-6	as specifically referred to in connection with paragraph 7(i) of the Counterclaim and the anti-trust count. Also, a complete description of damages sustained in each instance and explanation of how goodwill was damaged or lost in connection with each instance and identification of the potential customers referred to.

I appreciate that you have supplied me with a list of items that you were going to produce pursuant to Mr. Blonder's deposition and that there will be items common to both lists. May I go on record as stating that one production of the requested item common to both lists will be acceptable to me?

I look forward to your early compliance with the foregoing request.

Sincerely yours,

SILVERMAN & CASS

Myron C. Cass

MCC/gm

cc: Robert H. Rines, Esq.
Basil P. Mann, Esq.

P.S. The list which you supplied with your letter of October 31, 1966 refers to items Nos. 1 through 8 and 11 which have not been repeated on the above list. I presume that you will supply these items also.

November 23, 1966

Mr. Robert H. Rines
Rines and Rines
No. Ten Post Office Square
Boston, Massachusetts 02109

RE: RUF v. HF v. JFD

Dear Bob:

I have had an opportunity to read the transcript of Mr. Finkel's deposition. I enclose a copy of a list of material to be produced by JFD.

Very truly yours,

Richard S. Phillips

RSP:lag

Enclosure

cc: Mr. I. S. Blonder
Mr. Basil P. Mann
Mr. Myron C. Cass

MATERIAL TO BE PRODUCED BY JFD
(Requested of Finkel Deposition)

1. Date of purchase of Blonder-Tongue ARROW or DART antenna. (Page 48)

2. Results of comparison tests of Blonder-Tongue antenna. (Page 49)

3. Tests or other evidence of infringement supplied to the Foundation with regard to Blonder-Tongue DART and ARROW antennas and correspondence between Mayes and JFD or any other writings bearing on the relationship between the Blonder-Tongue antennas and the Isbell work. (Page 51)

4. All drawings, notebooks or other writings showing dual boom construction and the earliest dates of dual boom construction at JFD. (Page 54)

5. The names of all people who worked with Mr. Grant on any dual boom construction at JFD Laboratories in the spring of 1963. (Page 56)

6. Any documents bearing on the request to JFD from Sears for a VHF-UHF antenna or relating to the initiation of the development project in response to the Sears request. (Page 59)

LAW OFFICES
SHAPIRO AND SHAPIRO
PATENT, TRADEMARK AND COPYRIGHT CAUSES
WASHINGTON, D. C.

December 7, 1966

Robert H. Rines, Esq.
Rines and Rines
No. Ten Post Office Square
Boston, Massachusetts 02109

Re: Isaac S. Blonder
Ser. No. 534,844

Dear Bob:

After reviewing this case and the prior art thoroughly, I have come to the conclusion that it may be possible to obtain the allowance of the captioned claim. The art does not teach the use of a permanent magnet rotor in conjunction with a stator having legs provided with AC and DC fields in the particular relationship recited in the claim.

If this claim will give the desired protection, I shall present the same by amendment, along with a few dependent claims. I propose to have an interview with the Examiner to obtain the allowance of this claim without any further tests or affidavit at this time.

Please let me have your reaction just as soon as possible. If I do not hear from you before December 16, 1966, I shall have to obtain an extension.

Very truly yours,

SHAPIRO AND SHAPIRO

Edward H. Shapiro

NHS/lm
encl.

cc: R. Rines, Esq.
at Blonder-Tongue

December 13, 1966

Mr. Myron C. Cass
Silverman & Cass
105 West Adams Street
Chicago, Illinois 60603

RE: UIF v. BT v. JFD

Dear Mike:

This supplements the material we have provided already in response to the requests for production during Mr. Blonder's deposition. The following items are identified by the number on the list I prepared and the page number or numbers from your corresponding list.

No. 10, page 201 - information regarding foreign patents on Blonder-Tongue antenna. Spanish patent 310,655 has issued. An application is pending in one other country.

No. 19, page 304 - first sale invoices, ARROW, * DART and RANGER antennas. See attached invoices, B-T documents 235, 236 and 237.

Nos. 30, 31, pages 293, 365, 382, 383, evidence regarding alleged antitrust violations.

The activities to which Mr. Blonder testified and the sales practices outlined by Mr. Finkel at pages 73-77 of his deposition of November 1, 1966. We can at present supply the following specific names:

Wholesale Radio Company
Philadelphia, Pennsylvania
Mr. Sidney Love

Leder Electronics Company
Newark, New Jersey

Sacramento Electronics Supply Company
Sacramento, California
Mr. Womack

* I am returning the documents which were marked for identification as exhibits J-3 through J-7 at Mr. Blonder's deposition.

Very truly yours,

Richard S. Phillips

RSP:iag

* Enclosures

cc: Mr. Basil P. Mann
Mr. Robert H. Rines

December 16, 1966

Mr. James J. Costello
Legal Counsel
University of Illinois
258 Administration Building
Urbana, Illinois

RE: UIF v. HT v. JFD

Dear Mr. Costello:

I enclose a copy of a subpoena with regard to some additional documentary material we wish to examine.

Very truly yours,

Richard S. Phillips

RSP:ieg

Enclosure

cc: Mr. Harold B. Lawler
Mr. Basil P. Mann
Mr. Myron C. Cass
Mr. Robert H. Wines
Mr. I. S. Mlander

CIVIL SUBPOENA TO PRODUCE DOCUMENT OR OBJECT — D. C. Form No. 48 (Rev. 2-57)

United States District Court

FOR THE

THE UNIVERSITY OF ILLINOIS FOUNDATION,
Plaintiff and Counterclaim Defendant,
- v -
BLONDER-TONGUE LABORATORIES, INC.,
Defendant and Counterclaimant,
- v -
JFD ELECTRONICS CORPORATION,
Counterclaim Defendant.

CIVIL ACTION FILE NO. .....

No. 66 C 567

TO: Harold B. Lawler, Business Manager
Department of Electrical Engineering
Electrical Engineering Building
University of Illinois
Urbana, Illinois

YOU ARE HEREBY COMMANDED to produce for inspection and copying at the offices of Merriam, Marshall, Shapiro & Klose, 30 West Adams Street, in the city of Chicago, Illinois, the following:

(1) All reports, drafts of reports, correspondence with the sponsoring agency, memoranda of University personnel regarding reports under contract No. AF33(616)-6079 Project No. 9-(13-6278) Task 40572, during the period March 1, 1959 - June 1, 1959.
(2) All cover letters accompanying copies of reports.
(3) All records regarding the printing and mailing of reports under said contract during said period.
(4) All accounting records relating to reports under said contract during said period, including, but not limited to, records of the printing expense and the mailing expense of said reports.

December 16, 1966.

Hofgren, Wegner, Allen, Stellman & McCord
Attorney for

Blonder-Tongue Laboratories, Inc.
Address
20 North Wacker Drive
Chicago, Illinois 60606

Robert C. Wagner Jr., *Clerk.*

By Adelaide C. Kirby, *Deputy Clerk.*

RETURN ON SERVICE

Received this subpoena at ..... on .....
and on ..... at .....
served it on the within named .....
by delivering a copy to h ..... and tendering to h ..... the fee for one day's attendance and the mileage allowed by law.[1]

Dated:
....., 19.....

.....,
By.....

Service Fees
Travel .....$
Services .....
Total .....$

Subscribed and sworn to before me, a ..... this
day of , 19 .

.....

[1] Fees and mileage need not be tendered to the witness upon service of a subpoena issued in behalf of the United States or an officer or agency thereof. 28 USC 1825.

NOTE.—Affidavit required only if service is made by a person other than a United States Marshal or his deputy.