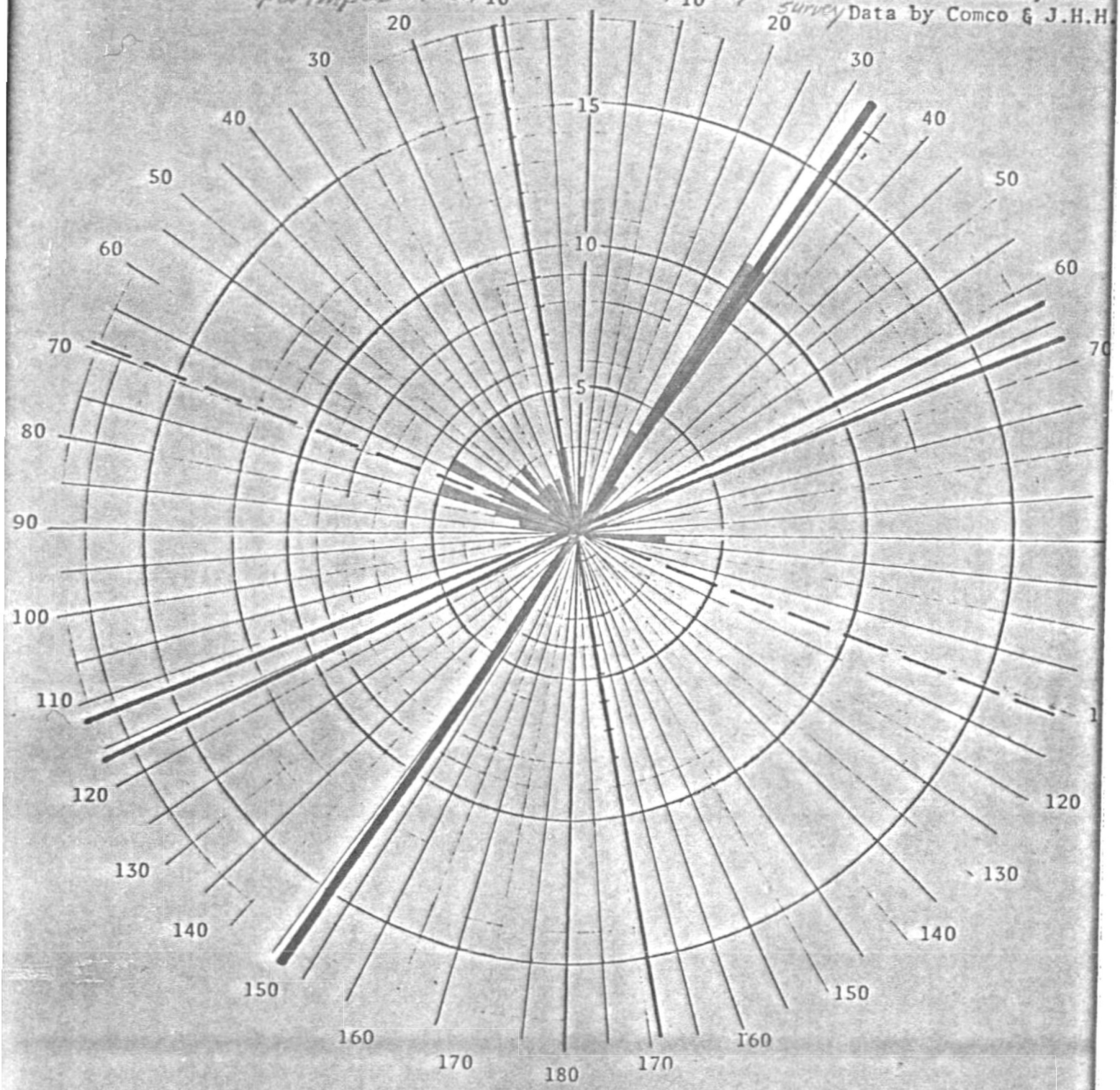
GILT EDGE PROJECT

FRACTURE TRENDS

Rose Diagram of Dakota Pit Trends superimposed on trends from plot of entire survey

222 entries
Fractures nearly verti
Data by Comco & J.H.H.



Most common trend, all ent

Least common trend, all en

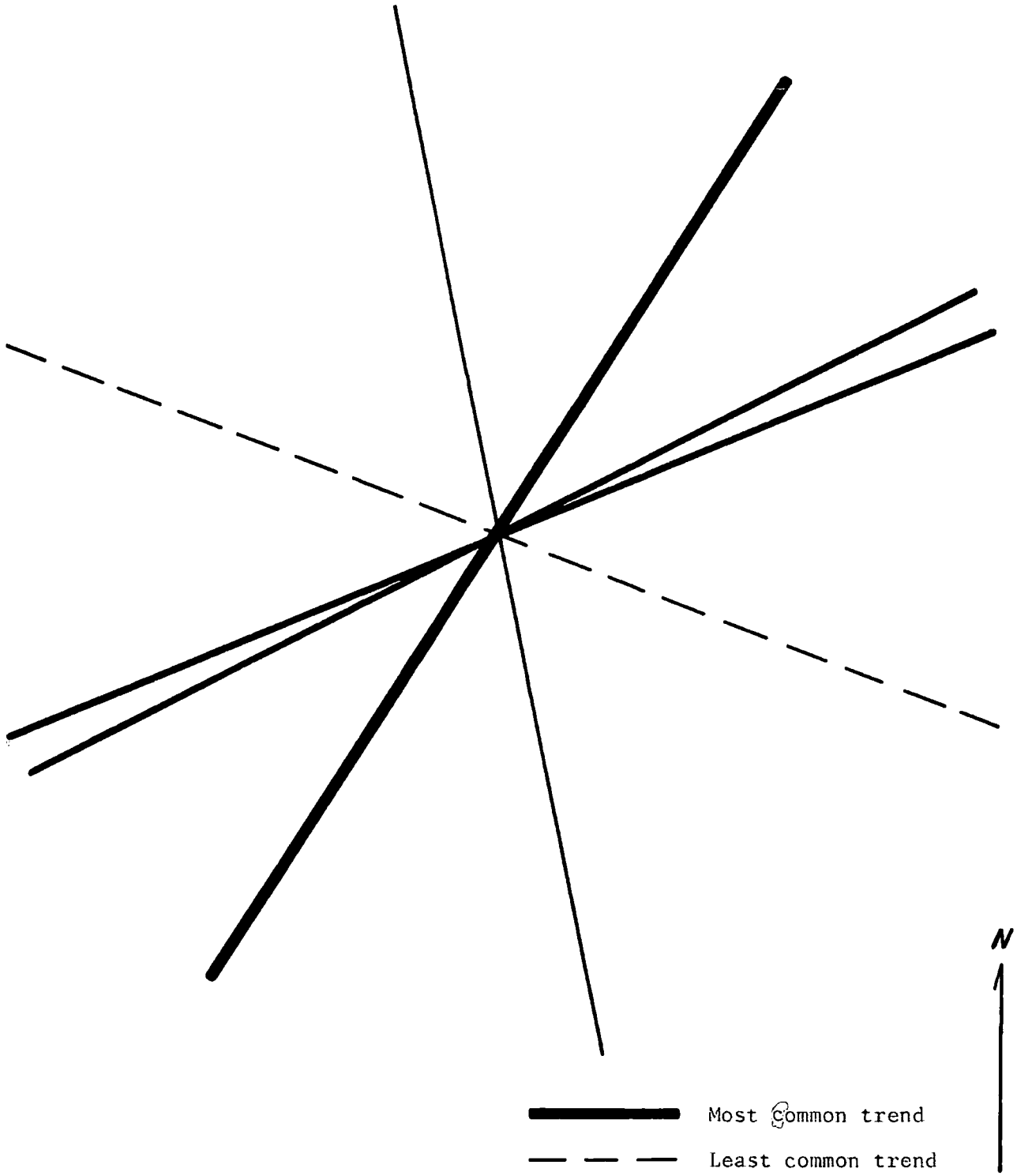
Dakota Maid Pit vertical a
near-vertical fracture t
(70° cutoff)

5 Number of fractures per tr
Dakota Maid Pit

GILT EDGE PROJECT

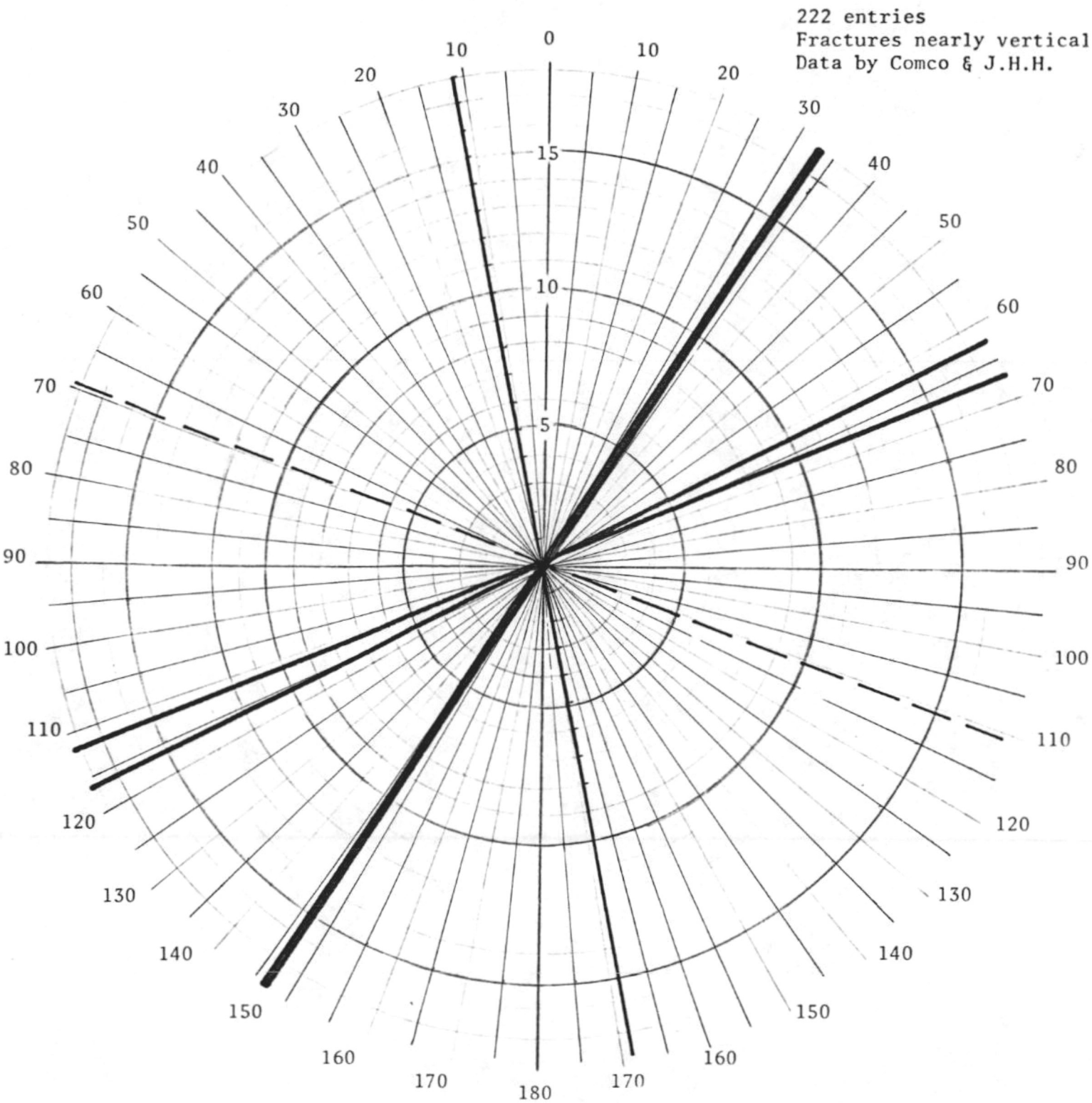
Fracture Trends

222 entries
Fractures nearly vertical
Data by Cômco & J.H.H.



GILT EDGE PROJECT

FRACTURE TRENDS

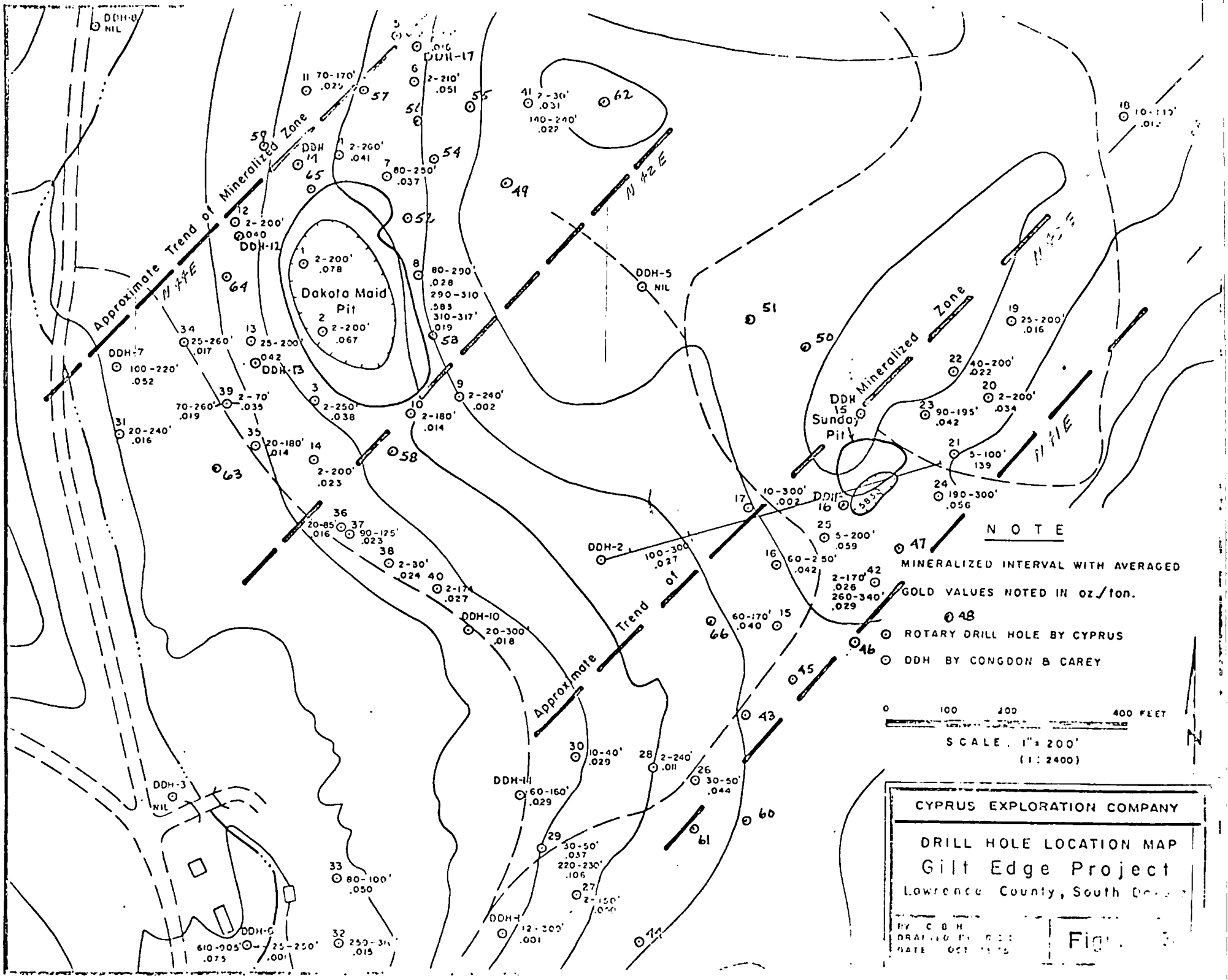


Most common trend, all entries

Least common trend, all entries

Dakota Maid Pit vertical and near-vertical fracture trend

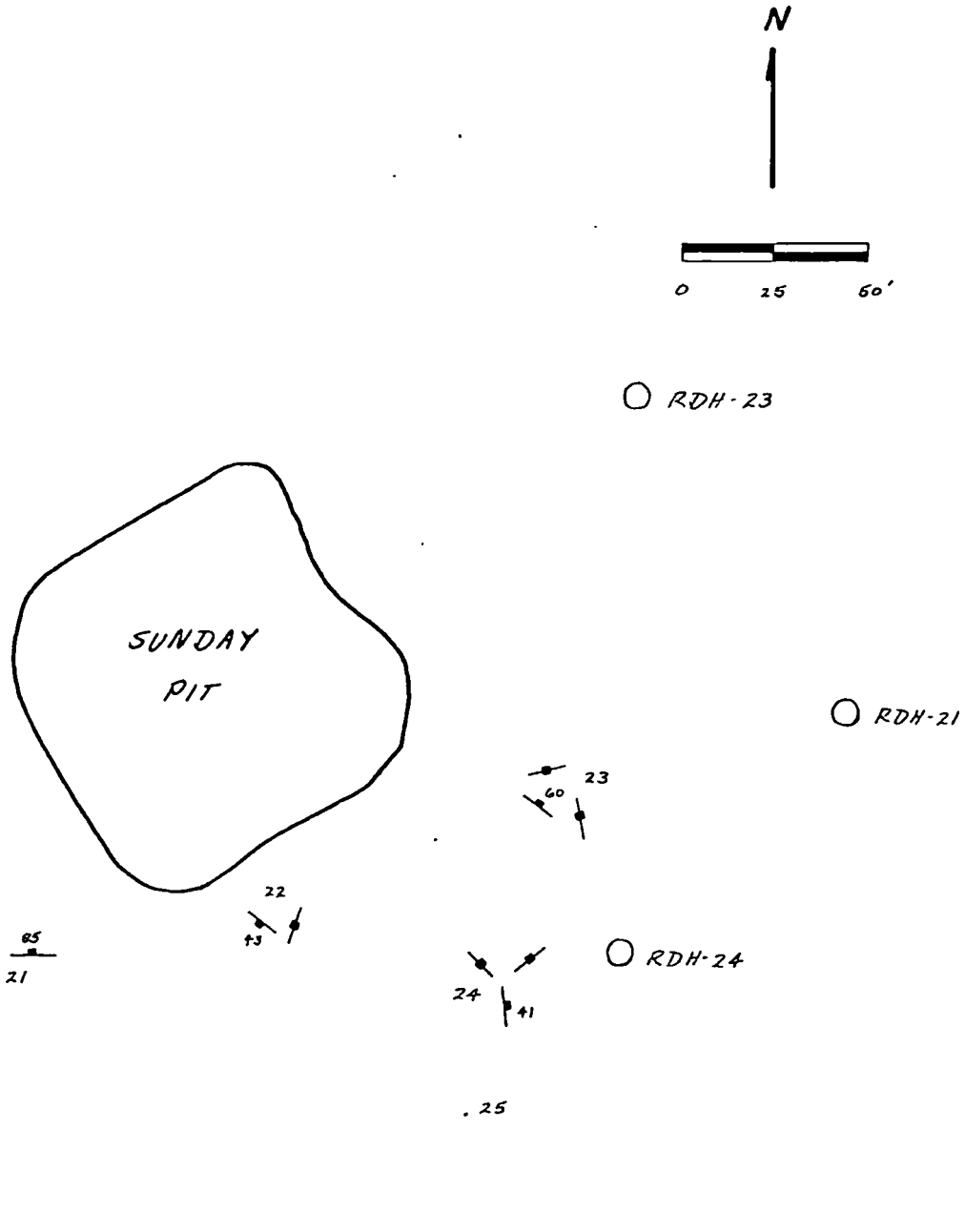
5 Number of fractures per trend, Dakota Maid Pit

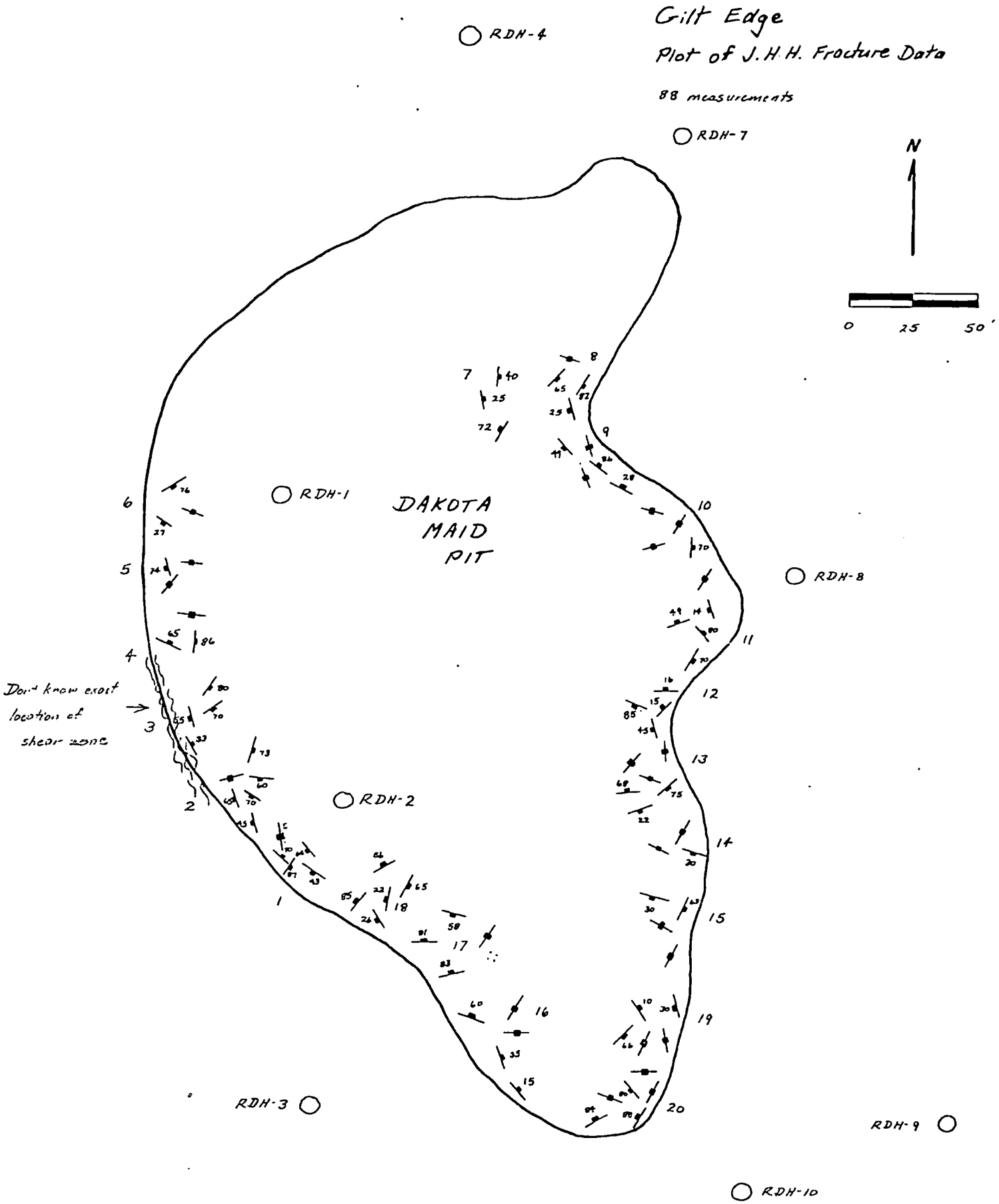

Approximate Trend of Mineralized Zone
N 42 E
Dakota Maid Pit
Sunday Pit
DDH Mineralized Zone
Approximate Trend of
NOTE
MINERALIZED INTERVAL WITH AVERAGED GOLD VALUES NOTED IN oz/ton.
ROTARY DRILL HOLE BY CYPRUS
DDH BY CONGDON & CAREY
0 100 200 400 FEET
SCALE, 1" = 200'
(1 : 2400)
CYPRUS EXPLORATION COMPANY
DRILL HOLE LOCATION MAP
Gilt Edge Project
Lawrence County, South Dakota
Fig.

Gilt Edge

Plot of J.H.H. Fracture Data

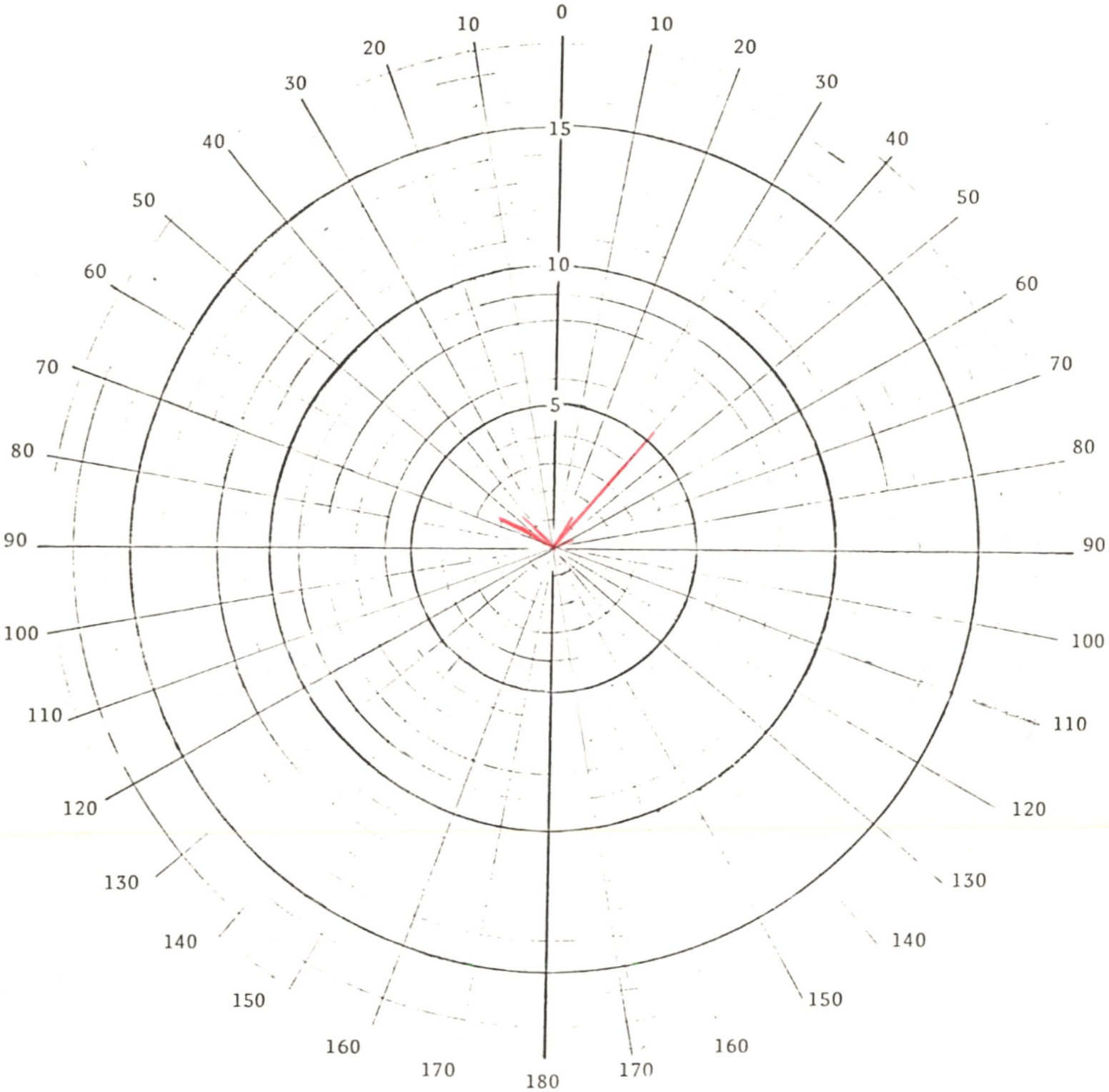
9 Measurements




Gilt Edge
Plot of J.H.H. Fracture Data
88 measurements
N
0
25
50'
RDH-4
RDH-7
RDH-1
DAKOTA
MAID
PIT
RDH-8
RDH-2
RDH-3
RDH-9
RDH-10
Don't know exact
location of
shear zone

GILT EDGE PROJECT

FRACTURE TRENDS

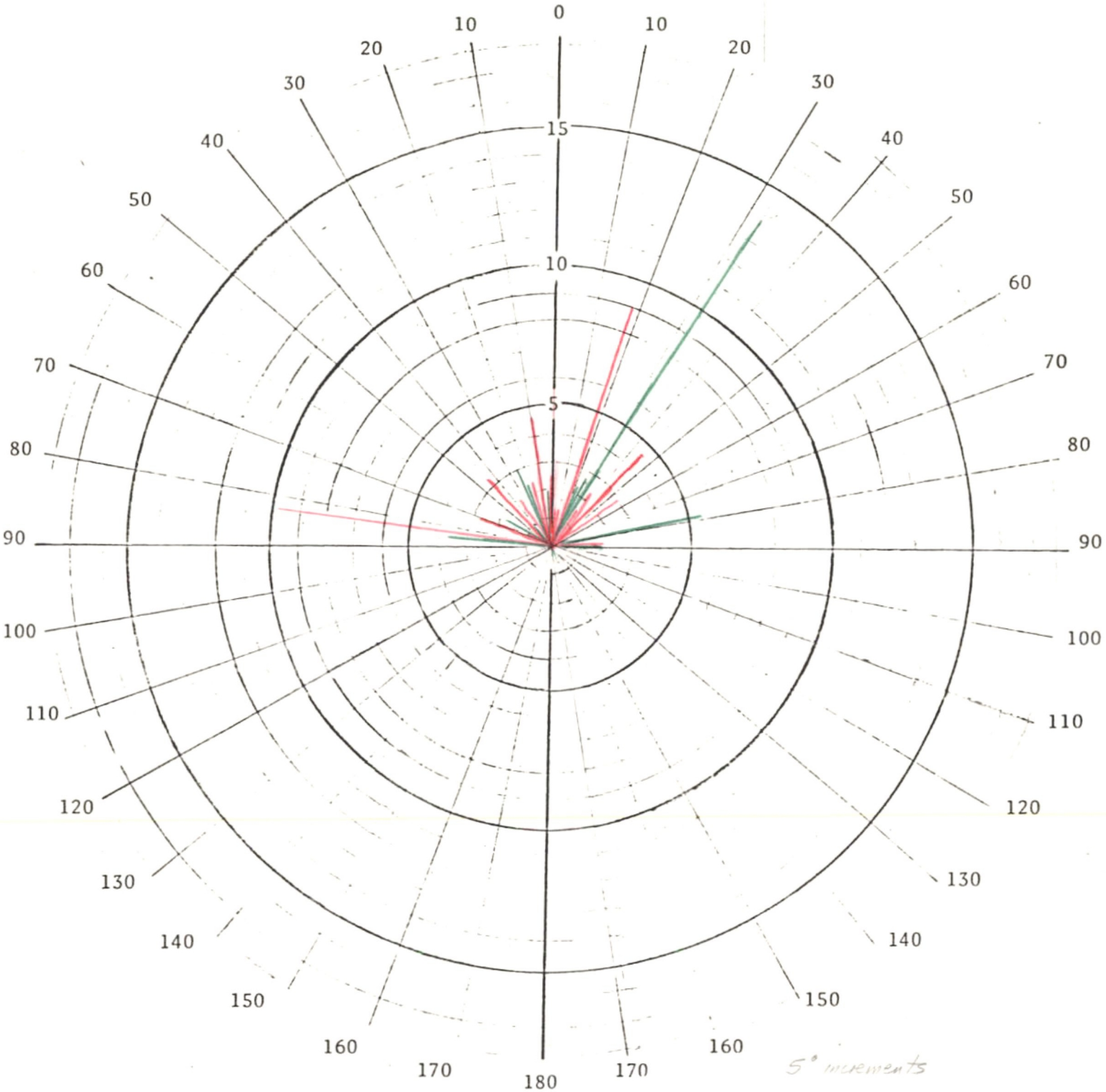


Sunday Level + open cut —

1" = 40'

GILT EDGE PROJECT

FRACTURE TRENDS



5° increments

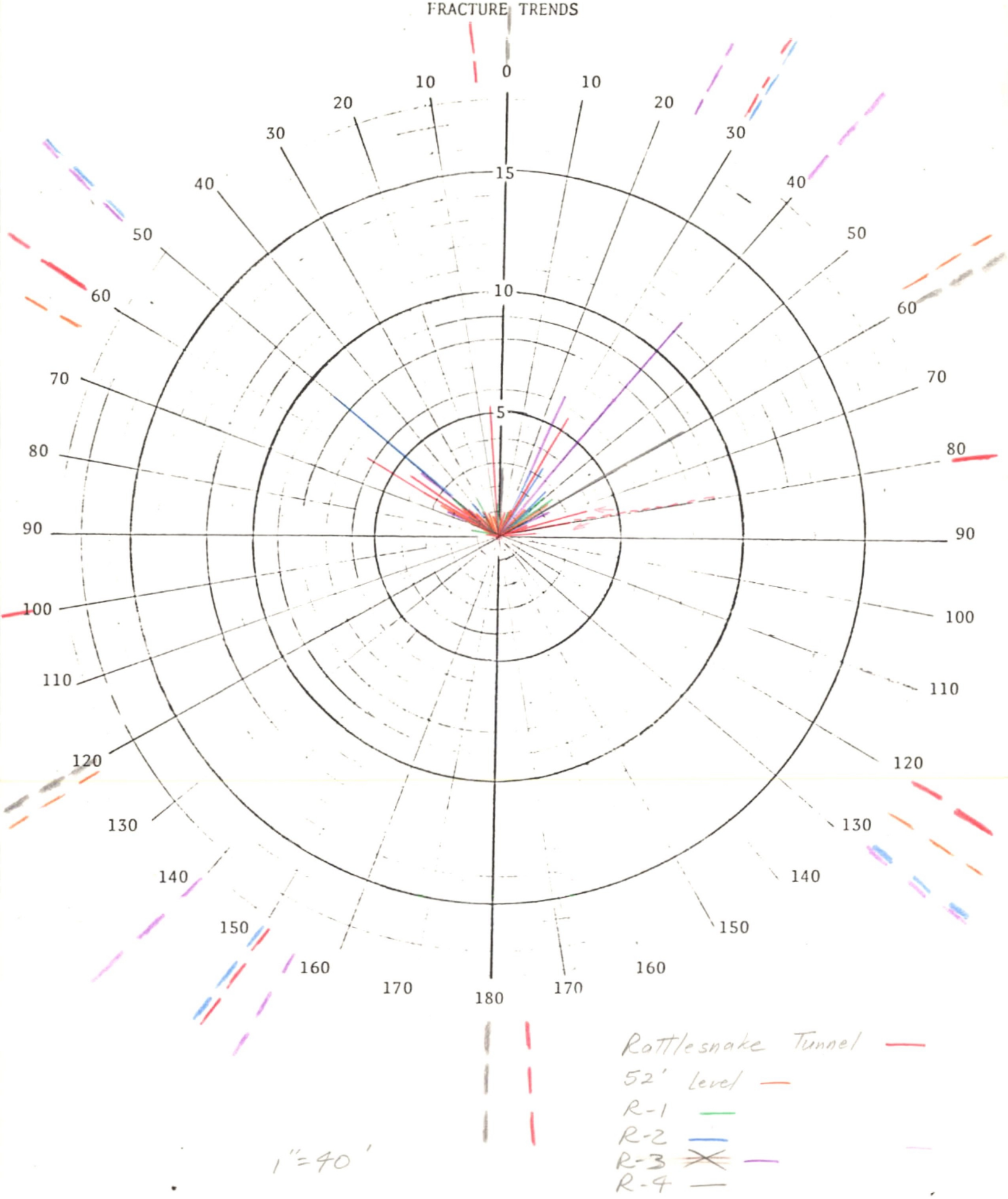
King Tunnel —

K I (100' Level) —

1" = 40'

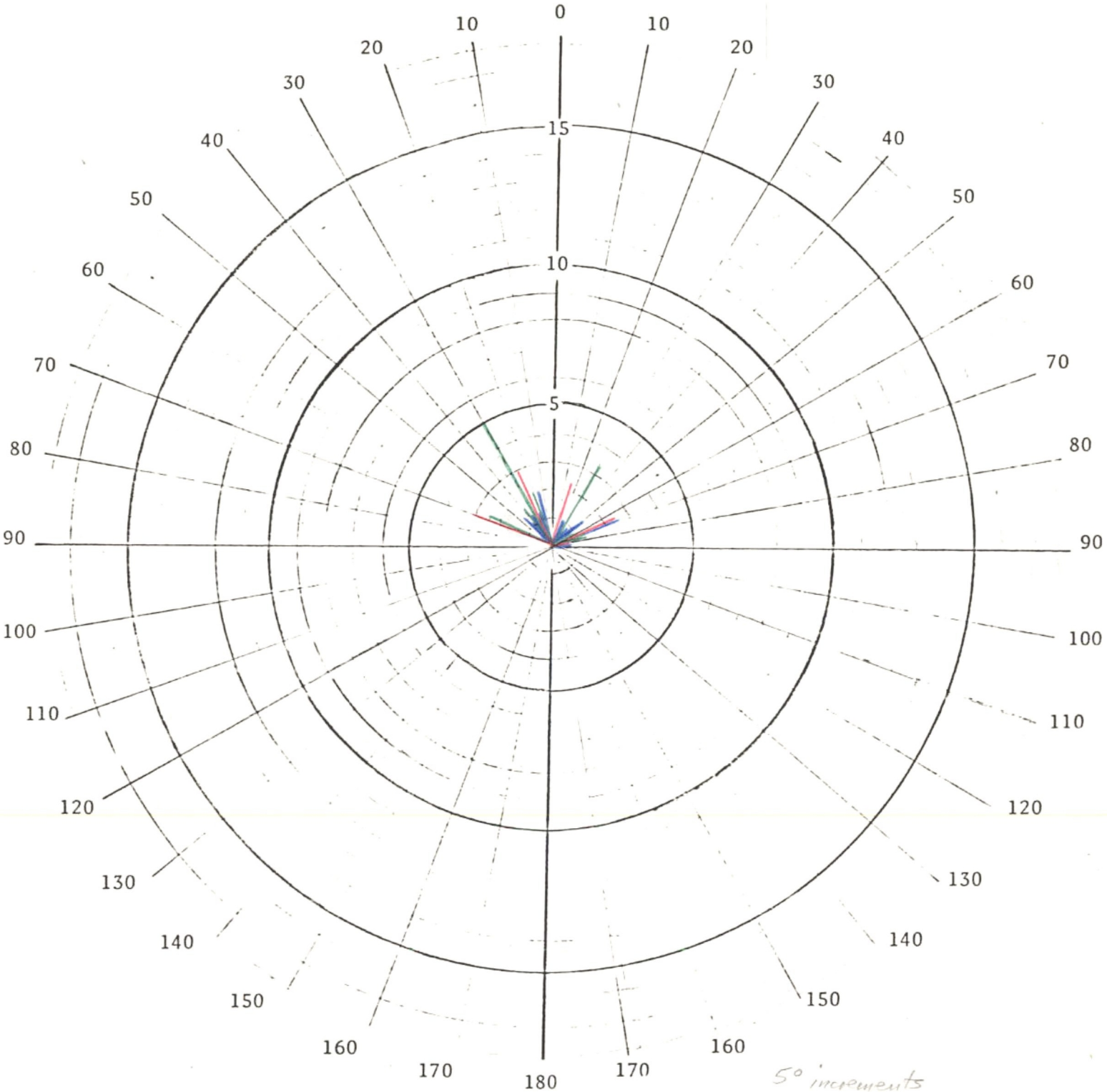
GILT EDGE PROJECT

FRACTURE TRENDS



GILT EDGE PROJECT

FRACTURE TRENDS (Length / trend)



5° increments

Orofino 100' Level

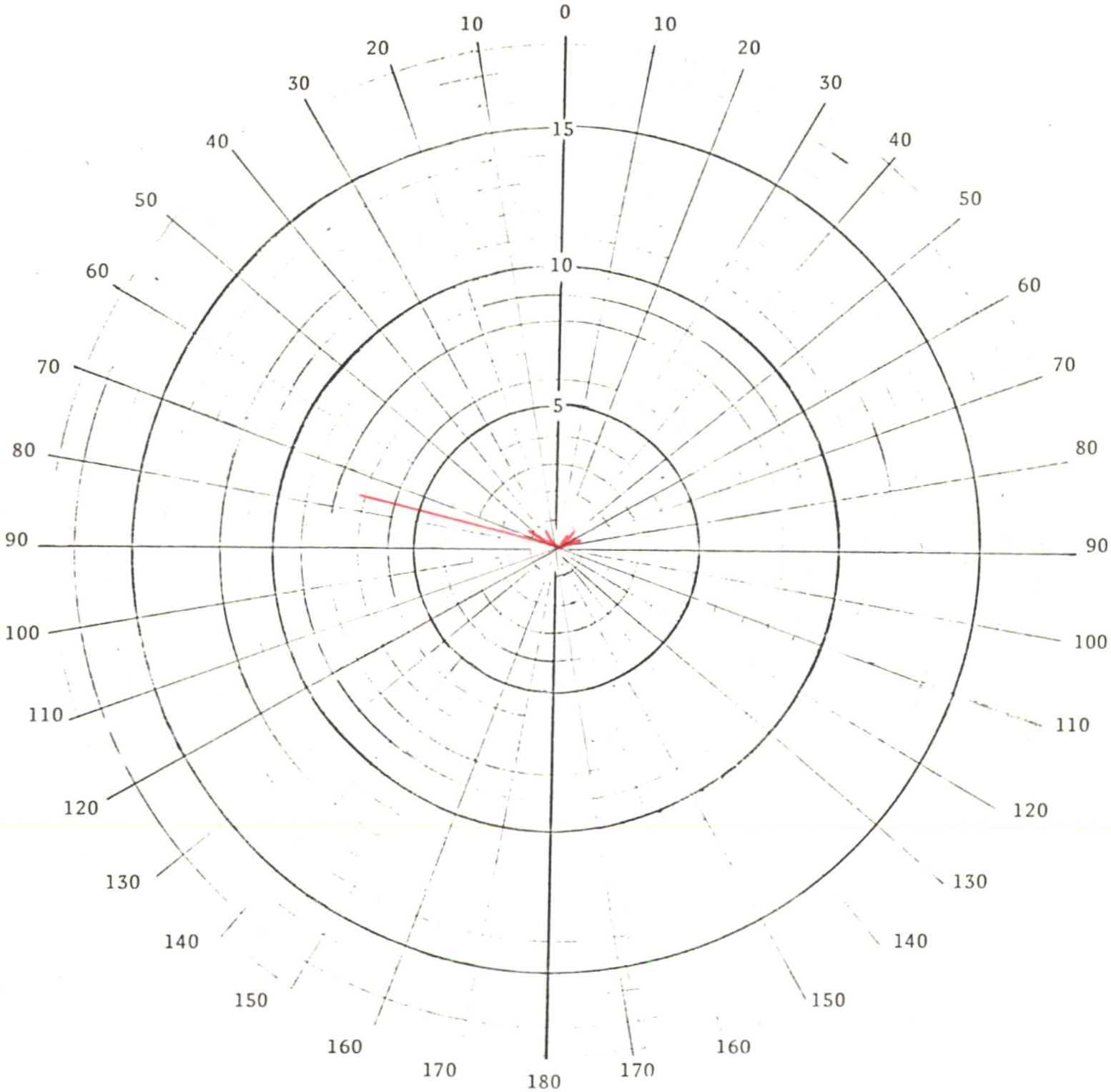
200

300

1" = 30'

GILT EDGE PROJECT

FRACTURE TRENDS

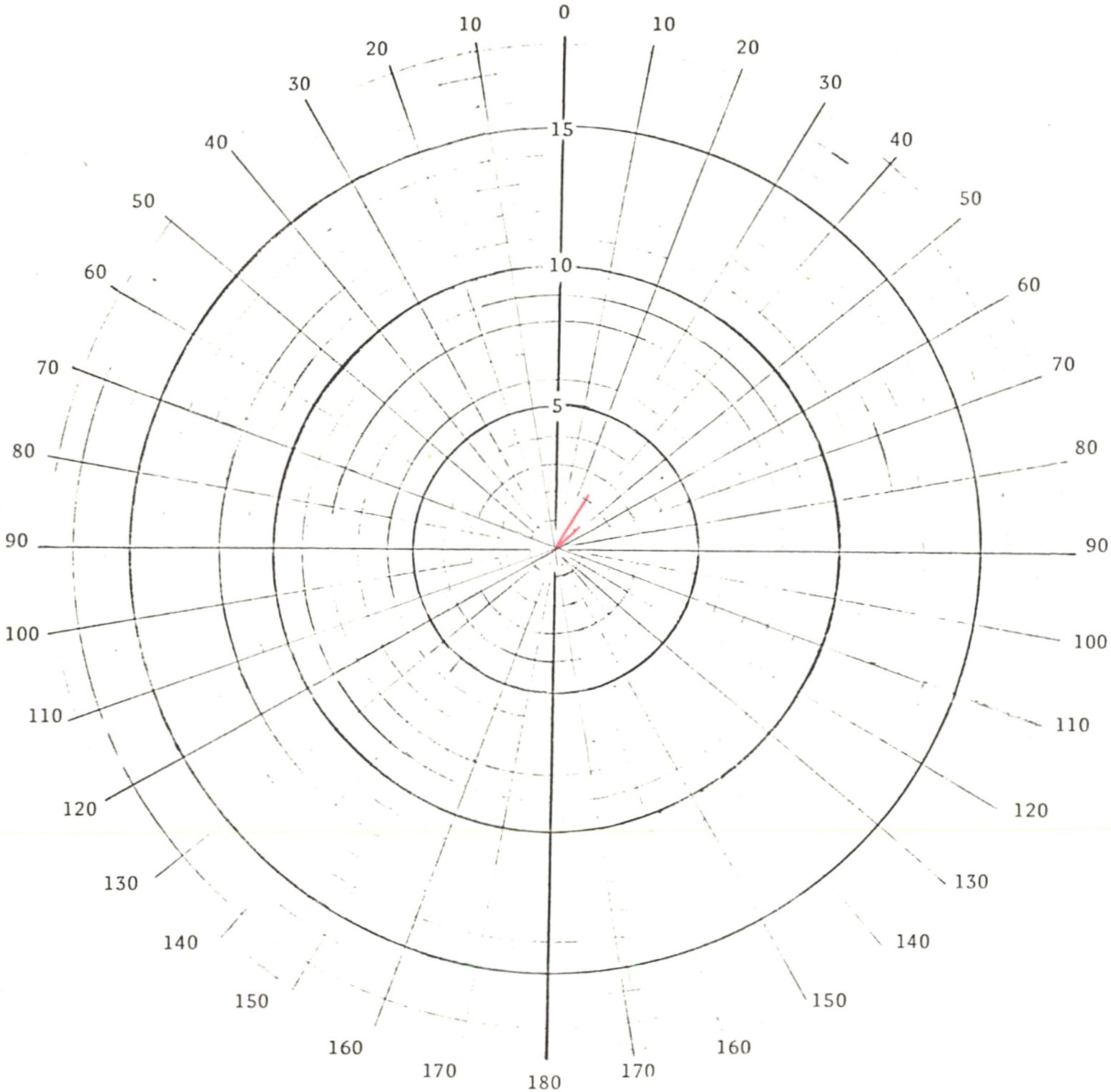


Langley Tunnel —

1" = 50'

GILT EDGE PROJECT

FRACTURE TRENDS



One John

1" = 50'

Gilt Edge - Trends of Underground Workings

1"=40'

Name + Level	Trend	Length
King	N 43 E	4.5"
	N 55 E	3.0"
	N 18 E	9.0
	N 31 E	1.5
	N 36 W	2.0
	N 58 W	1.0
	N 10 W	4.5
	N 0	0.8
	N 20 W	2.0
	N 42 W	3.3
	N 60 W	2.8
	N 88 E	1.8
	N 82 W	9.9
	N 10 E	1.2
	N 18 W	0.6
	N 4 E	1.2
	N 0	c.f. map 2.5
King K-1 (100' Level)	N 32 E	3.1
	N 85 W	2.4
	N 35 E	3.6
	N 25 W	3.0
	N 2 W	1.8
	N 35 W	0.9

Name + Level	Trend	Length
K-1 continued	N 31 E	5.6
	N 61 W	1.9
	N 28 E	2.6
	N 30 E	1.9
	N 40 W	0.7
from main shaft	N 79 E	5.2
	N 22 E	2.2
	N 20 W	1.2
	N 90 E	1.9
	N 85 W	1.3
	N 36 E	2.2

Gilt Edge - Trends of Underground Workings

1" = 30'

Name + Level	Trend	Length	Name + Level	Trend	Length
Orofino 100'	N 26 W	3.0	Orofino 300	N 31 E	0.4
	N 80 E	0.4	continued	N 70 E	0.9
	N 16 E	1.2		N 80 E	0.7
	N 65 E	2.4		N 45 W	1.6
	N 70 W	3.0		N 66 E	2.5
	N 18 E	1.1		N 14 W	2.0
				N 50 E	1.1
" 200'	N 30 W	incomplete 1.7		N 43 E	0.6
through main shaft	N 60 E	1.0			
	N 27 W	3.4			
	N 30 E	2.4			
	N 65 E	1.2			
	N 79 E	1.2			
	N 68 W	2.5			
	N 23 W	2.0			
stope	N 40 W	Incomplete 1.6			
	N 25 E	1.0			
300'	N 35 W	1.3			
	N 20 W	1.5			
	N 20 E	1.0			
through main shaft	N 60 E	1.0			
	N 38 W	1.2			

Gilt Edge - Trends of Underground Workings

1" = 50'

Name + Level	Trend	Length	Name + Level	Trend	Length
One John	N 30 E	2.2			
	N 47 E	1.1			
—					
Langley Tunnel	N 76 W	7.2			
	N 35 E	0.6			
	N 54 W	1.2			
	N 60 E	0.9			
	N 74 E	1.0			
	N 50 E	0.8			
	N 30 W	0.5			
	N 40 E	0.8			

Gilt Edge - Trends of Underground Workings

1" = 40'

Name + Level	Trend	Length	Name + Level	Trend	Length
RSS continued	N 50 W	7.2	RSS R4	N 60 E	4.9
R2 level	N 50 W	1.6		N 55 E	3.7
	N 40 W	1.9		N 0	1.5
	N 50 E	1.9		N 0	0.8
	N 26 E	3.0		N 60 W	0.6
	N 60 E	1.3		N 40 W	0.6
	N 6 W	0.8		N 0	0.5
	N 30 W	1.1			
	N 48 E	1.5			
	N 33 E	3.3			
	N 45 E	3.3			
	N 55 E	1.0			
RSS R3	N 40 E	7.3			
	N 38 E	4.2			
	N 25 E	6.2			
Stope	N 55 W	1.8			
	N 50 W	4.0			
	N 65 W	2.3			
	N 65 E	2.2			

Gilt Edge - Trends of Underground Workings

1"=40'

Name + Level	Trend	Length
Rattlesnake Tunnel	N 4 W	5.2
(1938 map used;	N 14 E	1.0
1968 has less info)	N 30 E	1.5
	N 76 E	3.9
	N 30 E	4.1
	N 48 E	0.8
	N 80 E	3.0
	N 53 W	4.1
	N 85 W	0.6
	N 55 E	0.7
	N 60 W	3.4
	N 85 E	2.6
	N 48 W	1.7
Stope	N 58 E	1.7
	N 61 W	2.8
52' level of RS shaft	N 50 W	2.4
	N 28 W	1.2
	N 45 W	1.5
	N 36 W	0.9
	N 3 E	0.7
	N 20 E	1.2
	N 30 E	1.3

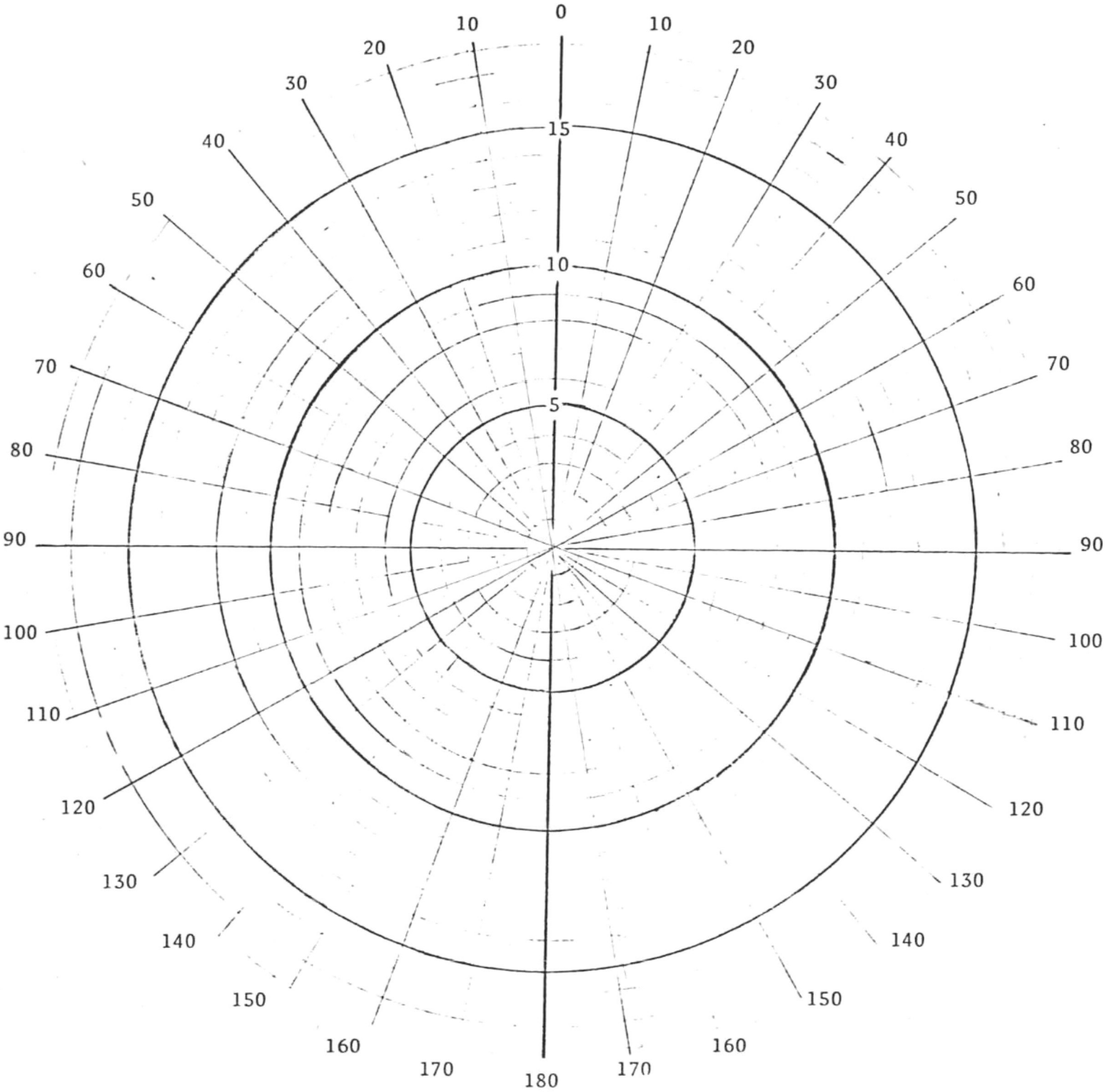
Name + Level	Trend	Length
52 continued	N 20 W	1.0
	N 85 W	0.8
	N 45 E	1.7
	N 58 E	0.7
	N 10 E	1.0
	N 60 W	0.8
	N 40 E	1.0
	N 15 W	0.7
RSS R1 Level	N 58 E	3.1
	N 55 W	0.8
	N 45 W	1.0
	N 55 W	1.6
Through shaft	N 2 W	1.3
	N 80 W	1.3
	N 22 E	1.1
	N 30 W	1.8
	N 57 E	0.7
	N 50 W	2.3
	N 40 E	2.5

Gilt Edge - Trends of Underground Workings

Name + Level	Trend	1"=40' Length	Name + Level	Trend	Length
Sunday	N 40 E	3.8			
Level + Open Cut	N 30 E	1.2			
	N 40 E	1.7			
	N 64 E	0.3			
	N 45 W	1.0			
	N 56 W	0.8			
	N 55 W	1.0			
	N 65 W	2.3			

Gilt Edge - Trends of Underground Workings

Name + Level	Trend	Length	Name + Level	Trend	Length

GILT EDGE PROJECT

FRACTURE TRENDS