





## STATISTICAL NOTES ON THE SIGN-GROUPS FROM PYLOS





The preparation of these statistical notes on the sign-groups from the inscriptions found at Pylos was undertaken in the hope that they might be of some assistance in the assignment of values to the signs of the Minoan script. The basis of the tabulations is the index of sign-groups in the preliminary transcription<sup>1</sup>, with the following additions and corrections:









p. 27; add       
vacat




p. 67, for Un11 read Un10.




p. 82, signs used in sign-groups; insert  between  and .




p. 82, signs used in sign-groups; add  at end.

p. 84, col. 2, s. v.    ; for Xc02.1 read Xc01.1.





p. 85, col. 1, for     read    .








p. 85, col. 1, s. v.   ; for An23.4.6 read An21.4.6.





p. 85, col. 2, s. v.   ; for [Eb43.1 read [Eb43.1].









p. 85, col. 2, s. v.   ; for Xc02.1 read Xc01.1.



p. 86, col. 1; insert ultimate three items before penultimate three items.








p. 88, col. 1, s. v.    ; omit Fno1.1.





p. 88, col. 1; between    and  , insert   Fno1.1.

p. 97, col. 1; delete     Xa25.

p. 97, col. 1. for     read    .





p. 102, col. 1, s. v.  ; omit Ab33.







p. 103, col. 1; between    and  , insert   Eno3.22 E005.2.

p. 105, col. 2. s. v.    ; add Ad06.

p. 107, col. 1, s. v.    ; for Fno3.5 read Fno3.17.

p. 107, col. 1; insert 4th item between 6th and 7th items.

p. 111, col. 1. s. v.    ; for An13.6 read An16.6.

p. 112, col. 1; between   and  , insert   Eq01.6.

<sup>1</sup> E. L. Bennett, Jr., *The Pylos Tablets. A Preliminary Transcription*, Princeton, 1951, pp. 81-117.

p. 115, col. 1, s. v.  $\oplus \times \zeta$  ; for <Jno7.5 Jno8.1.9 Ma01.2>  
read <Jno7.5> Jno8.1.9 Ma01.2.

TABLE I.—Number of sign-groups.

	Number of sign-groups	Number of occurrences
Complete sign-groups.....	1176	3119
Incomplete, discrete sign-groups...	139	141
<i>Total discrete sign-groups...</i>	1315	3260
Incomplete, dependent sign-groups	321	559
<i>Total sign-groups.....</i>	minimum 1315	maximum 3819

NOTES

1. To determine the number of sign-groups, only the first occurrence of a sign-group is counted; to determine the number of occurrences, all occurrences are counted. E. g.  $\vdash \times$  is counted as 1 sign-group, and as 43 occurrences.

2. The incomplete, discrete sign-groups (e. g.  $\vdash \times \emptyset + \text{///}$ ) cannot be incomplete occurrences of other sign-groups.

3. The incomplete, dependent sign-groups (e. g.  $\vdash \zeta \text{f} \text{///}$ ) can be incomplete occurrences of other sign-groups; and although they may actually have been parts of sign-groups different from any that have been preserved, they may not be counted as such.

4. The sign-group  $\neq \times \neq \bar{\tau}$  [[Aa18]] occurring only in erasure is counted as a discrete sign-group.

5. The occurrences in erasure of the following sign-groups are counted:

$\vdash \times$	[[Eb38.2]]	$\text{f} + \text{f} \neq \text{f}$	[[Cno4.5]]
$\neq +$	[[Eb38.2]]	$\text{f} \text{///}$	[[Nno2.1]]
$\neq \times \neq \bar{\tau}$	[[Aa18]]	$\text{A} \neq \text{Y} \bar{\tau} \wedge$	[[Eoo4.4]]
$\text{T} \text{E} \text{T} \text{C}$	[[Eoo2.2.3.7]]	$\text{Y} \wedge \bar{\tau} \text{t}^+$	[[Eoo4.3]]

6 The conjectured occurrences of sign-groups completed, restored, or expanded from apparent abbreviations are not counted.

7 The sign-group 𐤀𐤁𐤃𐤃 [[Eb22 2]] conjecturally completed, and the sign-group 𐤁𐤃 occurring only ideographically are not counted as discrete sign-groups.

8. The ideographic occurrences of the sign-groups 𐤁𐤃 and 𐤁𐤃 are not counted.

9. The occurrences in erasure of the following sign-groups are not counted:

𐤀𐤃𐤃 [[Vno3.1]]  
 𐤀𐤃𐤃 [[Aeo8]]  
 𐤁𐤃𐤃𐤃 [[Uno8.4]]

𐤁𐤃𐤃𐤃 [[Uno8.3]]  
 𐤁𐤃𐤃 [[Aeo8]]

TABLE II.—Lengths of sign-groups.

Lengths of complete sign-groups.

	Number of signs							
	1	2	3	4	5	6	7	8
1176 sign-groups	4	100	371	444	200	45	11	1
3118 occurrences	7	722	1177	784	352	63	13	1

Lengths of complete sign-groups in percentages.

	Number of signs							
	1	2	3	4	5	6	7	8
Sign-groups	0.3	8.5	31.6	37.7	17.0	3.8	0.9	0.1
Occurrences	0.2	23.1	37.8	25.1	11.3	2.0	0.4	0.1

Mean lengths.

Sign-groups 3.76                      Occurrences 3.33

# DISTRIBUTION OF LENGTHS OF SIGN-GROUPS

Number of Sign-Groups

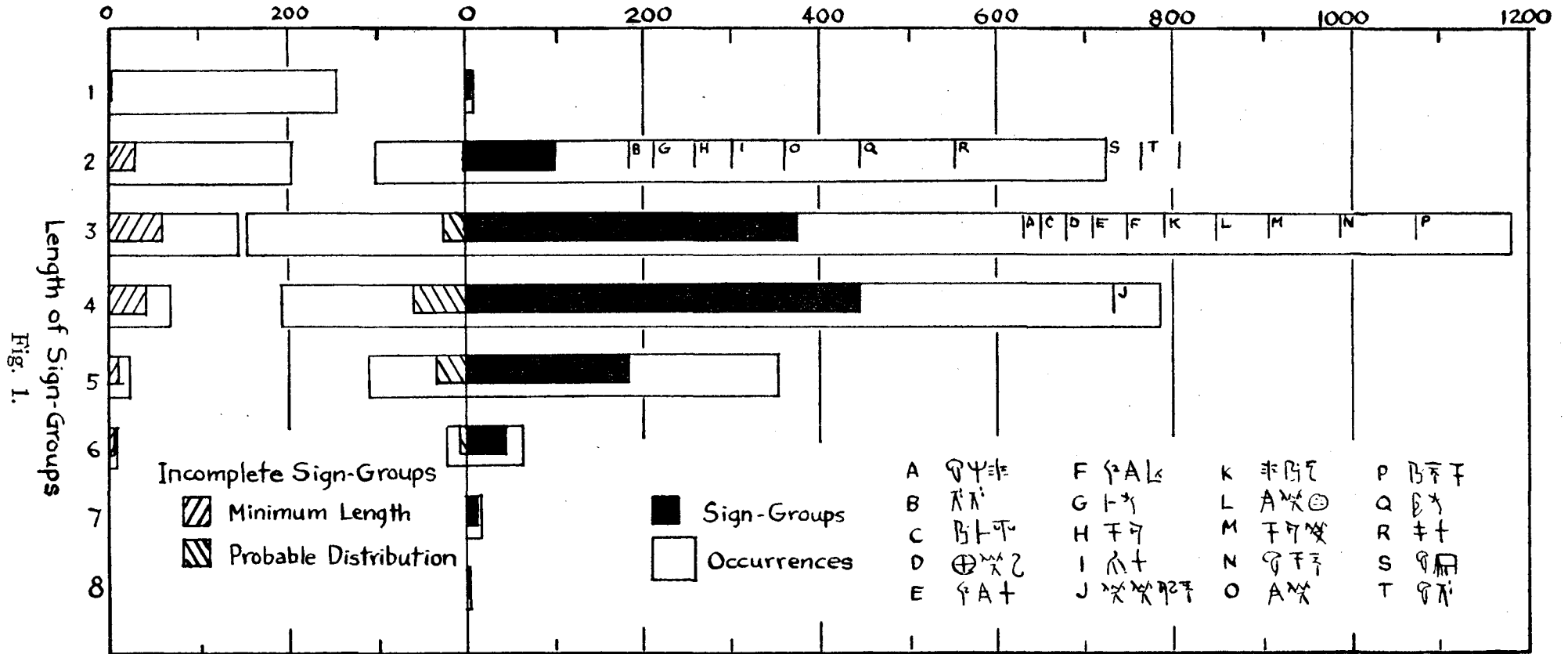


Fig. 1.

## Lengths of incomplete, discrete sign-groups.

	<i>Minimum number of signs</i>					
	1	2	3	4	5	6
139 sign-groups	1	26	59	38	11	4
141 occurrences	1	26	61	38	11	4

## Probable distribution of discrete sign-groups.

	<i>Number of signs</i>							
	1	2	3	4	5	6	7	8
1315 sign-groups	4	102	400	504	234	56	14	1
3260 occurrences	7	724	1207	845	386	74	16	1

## Lengths of incomplete, dependent sign-groups.

	<i>Minimum number of signs</i>					
	1	2	3	4	5	6
321 sign-groups	89	120	71	29	10	2
559 occurrences	256	178	82	30	11	2

## Probable distribution of all sign-groups.

	<i>Number of signs</i>							
	1	2	3	4	5	6	7	8
1315 sign-groups	4	102	400	504	234	56	14	1
3819 occurrences	7	829	1422	992	387	88	16	1

Figure 1 shows graphically the distribution of lengths of sign-groups.

# FREQUENCIES OF SIGN-GROUPS

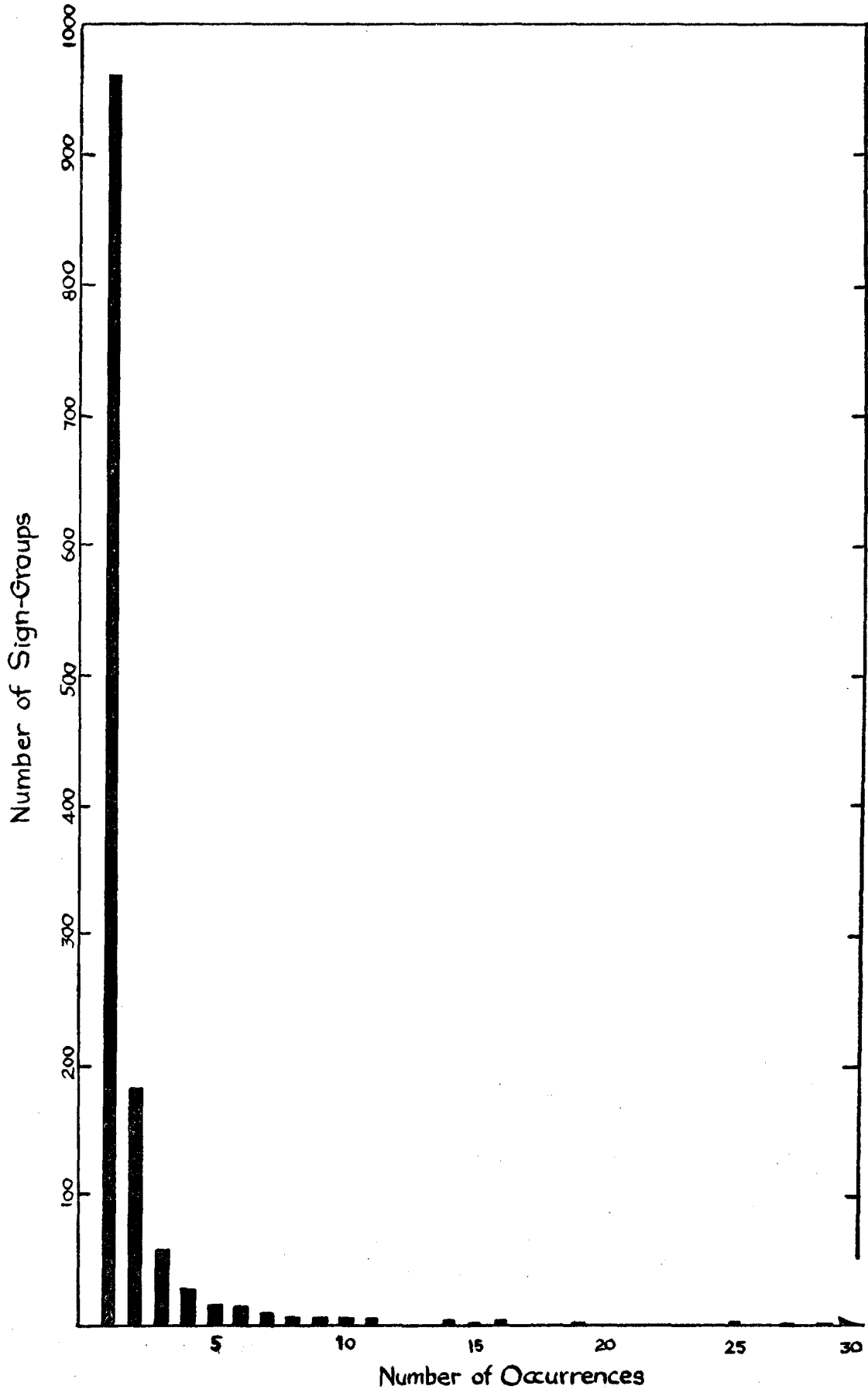


Fig. 2.

TABLE III.—*Frequencies of sign-groups.*

Number of occurrences	Number of sign-groups	Percentage of sign-groups
1	962	73.2
2	183	13.9
3	58	4.4
4	29	2.2
5	16	1.2
6	15	1.1
7	8	0.6
8	5	0.4
9	6	0.5
10	4	0.3
11	4	0.3
12	—	—
13	—	—
14	3	0.2
15	1	0.1
16	3	0.2
over 17	18	1.4
Total	1315	100.0

Mean frequency 2.48

The 18 sign-groups which occur more than 17 times are:

⊙ Ψ ≡	19	⊥ ʘ	43	⊥ ʘ ʘ	78
λ λ	25	⊥ ʘ	44	⊙ ⊥ ʘ	83
⊥ ⊥ ⊥	27	λ +	45	⊥ ʘ	100
⊕ ʘ ʘ	29	ʘ ʘ ʘ ʘ	54	⊥ ʘ ⊥	109
ʘ ⊥ +	38	≡ ⊥ ʘ	57	⊥ ʘ	112
ʘ ⊥ ⊥	43	⊥ ʘ ⊕	62	⊥ +	165
(ideographic ⊙ λ	45;	ideographic ⊙ ⊥	38)		

Figure 2 shows graphically the distribution of frequencies of sign-groups.

TABLE IV.—*Frequencies of signs and digraphs.*

N O T E S

1. Table IV, the frequencies of signs and of digraphs, is printed in 16 sections which are labelled and may be reassembled as follows:

A	B	C	D
E	F	G	H
I	J	K	L
M	N	O	P

2. In this tabulation as in those preceding, the distinction between the frequencies of sign-groups and of their occurrences is preserved. Throughout the table the figure for the frequency counted by sign-groups is above the figure for frequency counted by occurrences. The two figures may also be written in the form: sign-group/occurrence.

3. The figures for the frequencies of individual signs are to be found above and to the left of the indices.

The figures for the frequencies of digraphs are to be found below and to the right of the indices.

The index for the first sign of a digraph is to be found on the left; for the second sign, above.

TABLE OF  
FREQUENCIES  
OF SIGNS  
AND DIGRAPHS

TOT	50	164		
	153	568		
INI	13	6		
	66	17		
FIN	4	69		
	6	381		
TOT	INI	FIN	+	+
50	13	4	+	3
153	66	6	+	4
164	6	69	+	1
568	17	381	+	1

E. g. the following table of frequencies of signs and digraphs represents

total +	50/153
initial +	13/66
final +	4/6
++	3/4
total +	164/568
initial +	6/17
final +	69/381
++	1/1



4.	Number	Total frequencies		Mean frequencies	
		By sign-groups	By occurrences	By sign-groups	By occurrences
All signs.....	80	4889	11813	61.11	147.66
Initial signs...	63	1249	3451	19.82	54.76
Final signs....	64	1246	3460	19.46	54.06

Figures 3 to 8 show the cumulative frequencies of signs. Figures 3 and 4 show total frequencies, 5 and 6 show initial frequencies, 7 and 8 show final frequencies; figures 3, 5, and 7 show frequencies by sign-groups, 4, 6, and 8 show frequencies by occurrences. The signs in the lower right-hand corner of each figure are arranged in the order of frequency and are divided at the median, the 9th decile, and the 99th percentile into very frequent, frequent, less frequent, and rare signs. Those which do not occur as initial or final signs respectively are added in figures 5 to 8.

5.	Number	Total frequencies		Mean frequencies	
		By sign-groups	By occurrences	By sign-groups	By occurrences
Digraphs.....	1392	3555	7939	2.55	5.70
Initial digraphs	628	1232	3308	1.96	5.27
Final digraphs.	626	1235	3304	1.97	5.28

# CUMULATIVE FREQUENCIES OF SIGNS

TOTAL Frequencies

by SIGN-GROUPS

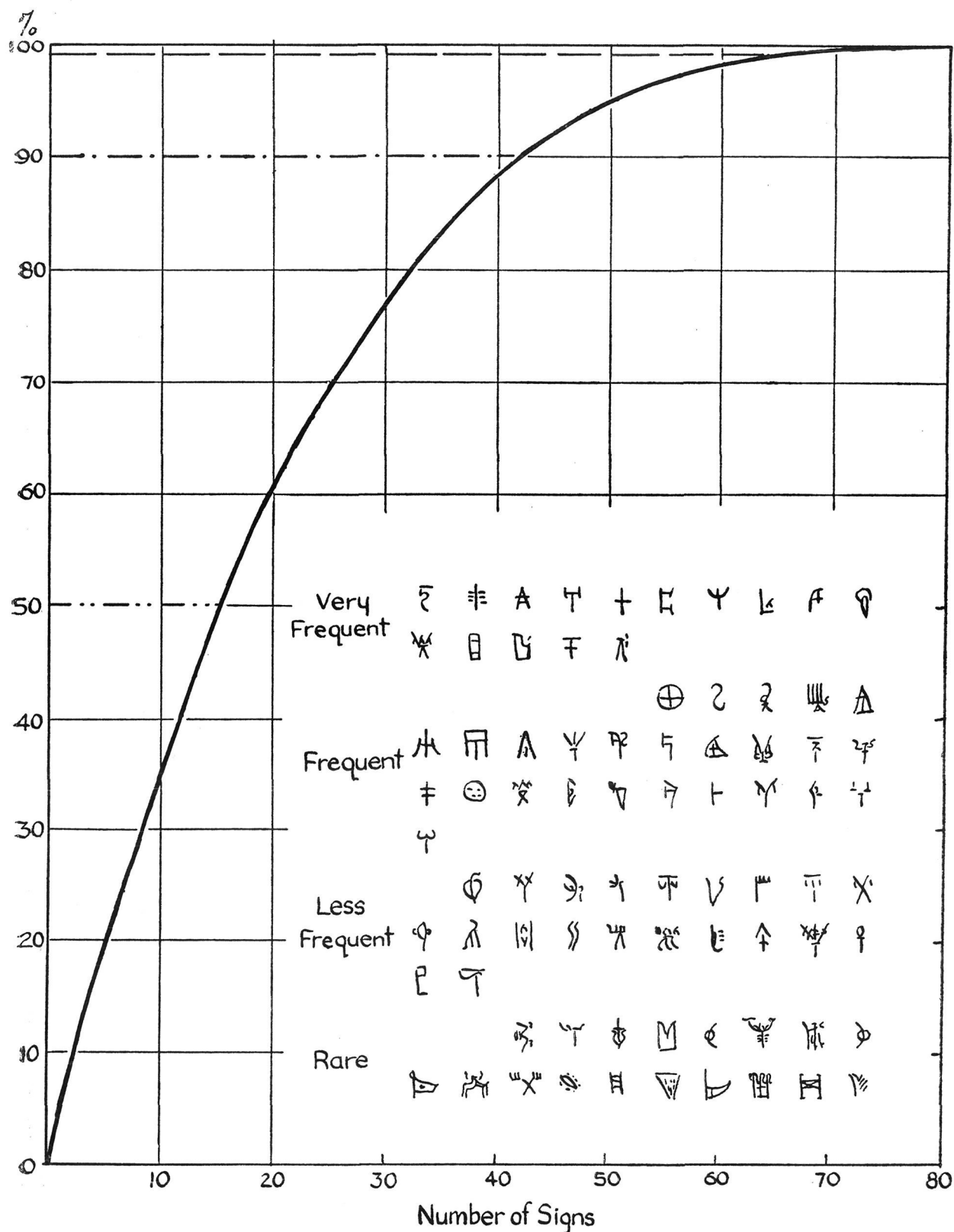


Fig. 3.

# CUMULATIVE FREQUENCIES OF SIGNS

TOTAL Frequencies

by OCCURRENCES

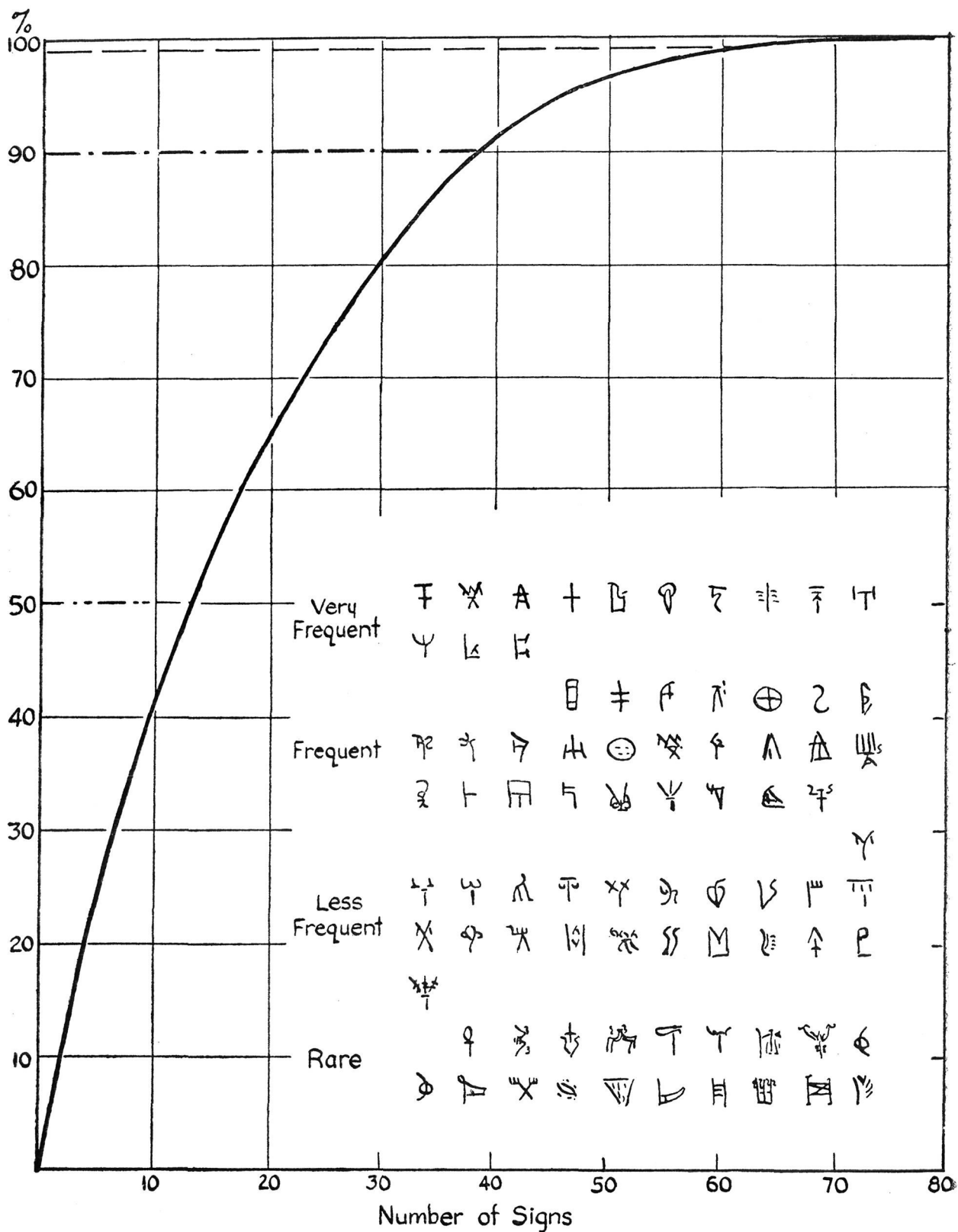


Fig. 4.









## 6. Frequencies of digraphs:

Number of occurrences	Digraphs		Initial digraphs		Final digraphs	
	By sign-groups	By occurrences	By sign-groups	By occurrences	By sign-groups	By occurrences
1	679	514	381	283	402	280
2	295	248	124	115	110	112
3	175	157	57	67	41	51
4	76	101	22	38	27	42
5	48	72	14	25	13	27
6	26	47	7	13	8	15
7	22	35	4	11	6	16
8	14	31	5	9	3	9
9	12	19	3	9	4	8
10	7	25	3	3	1	12
11	8	14	3	8	2	7
12	3	11	2	—	—	1
13	7	9	—	5	5	5
14	1	5	1	4	—	1
15	5	8	—	1	—	1
16	1	6	1	1	1	4
17	—	2	—	3	—	—
18	3	4	—	1	3	2
19	1	6	—	5	—	2
20	—	8	1	1	—	2
21	1	5	—	—	—	2
22	1	1	—	4	—	—
23	3	4	—	1	—	1
24	2	2	—	1	—	1
25	—	4	—	2	—	1
over 25	2	54	—	18	—	24

Figures 9 to 12 show the cumulative frequency of digraphs. Figures 9 and 10 show total frequencies by sign-groups and by occurrences respectively. Figure 11 shows initial and final frequencies by sign-groups; figure 12 shows initial and final frequencies by occurrences.

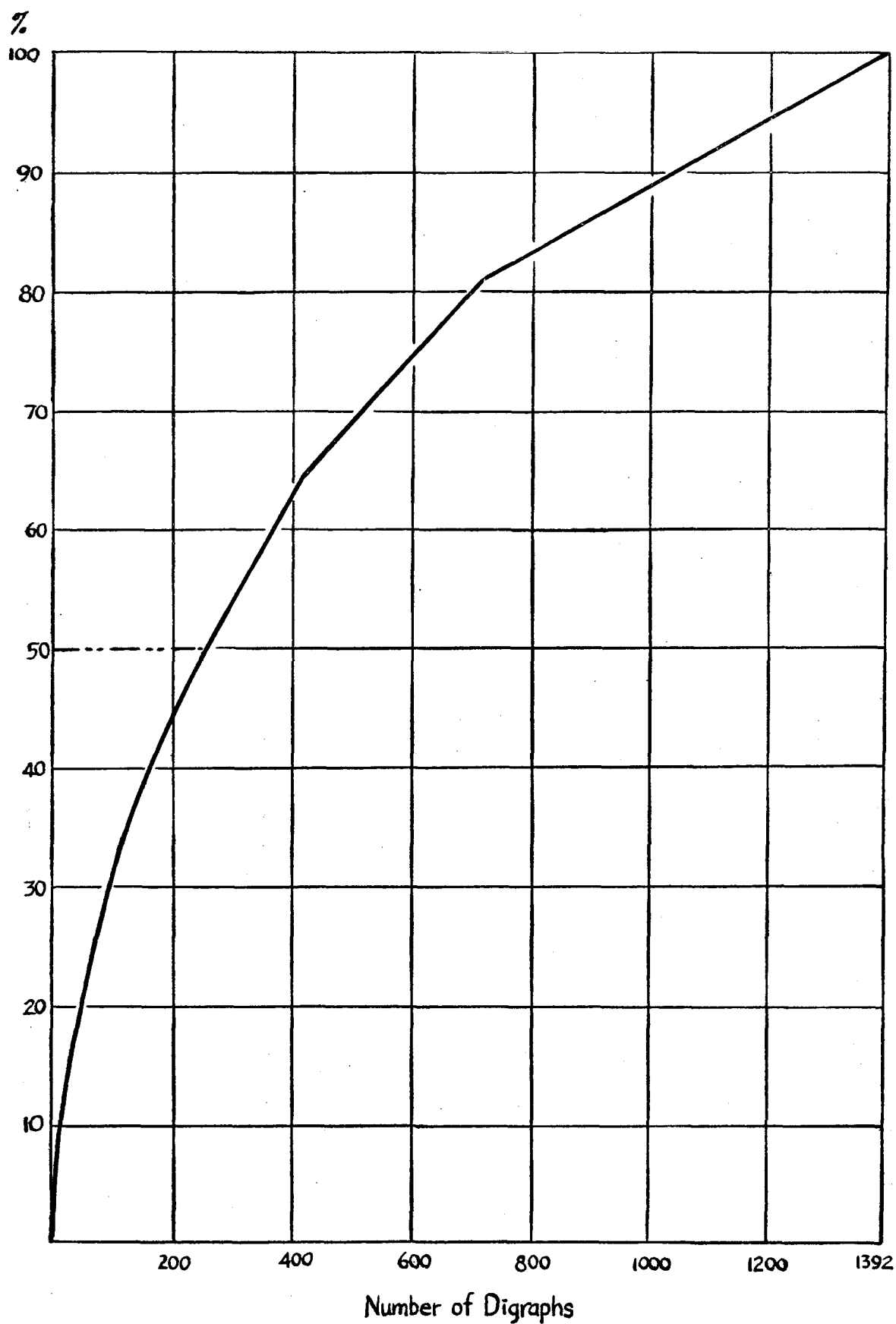




## CUMULATIVE FREQUENCIES OF DIGRAPHS

TOTAL Frequencies

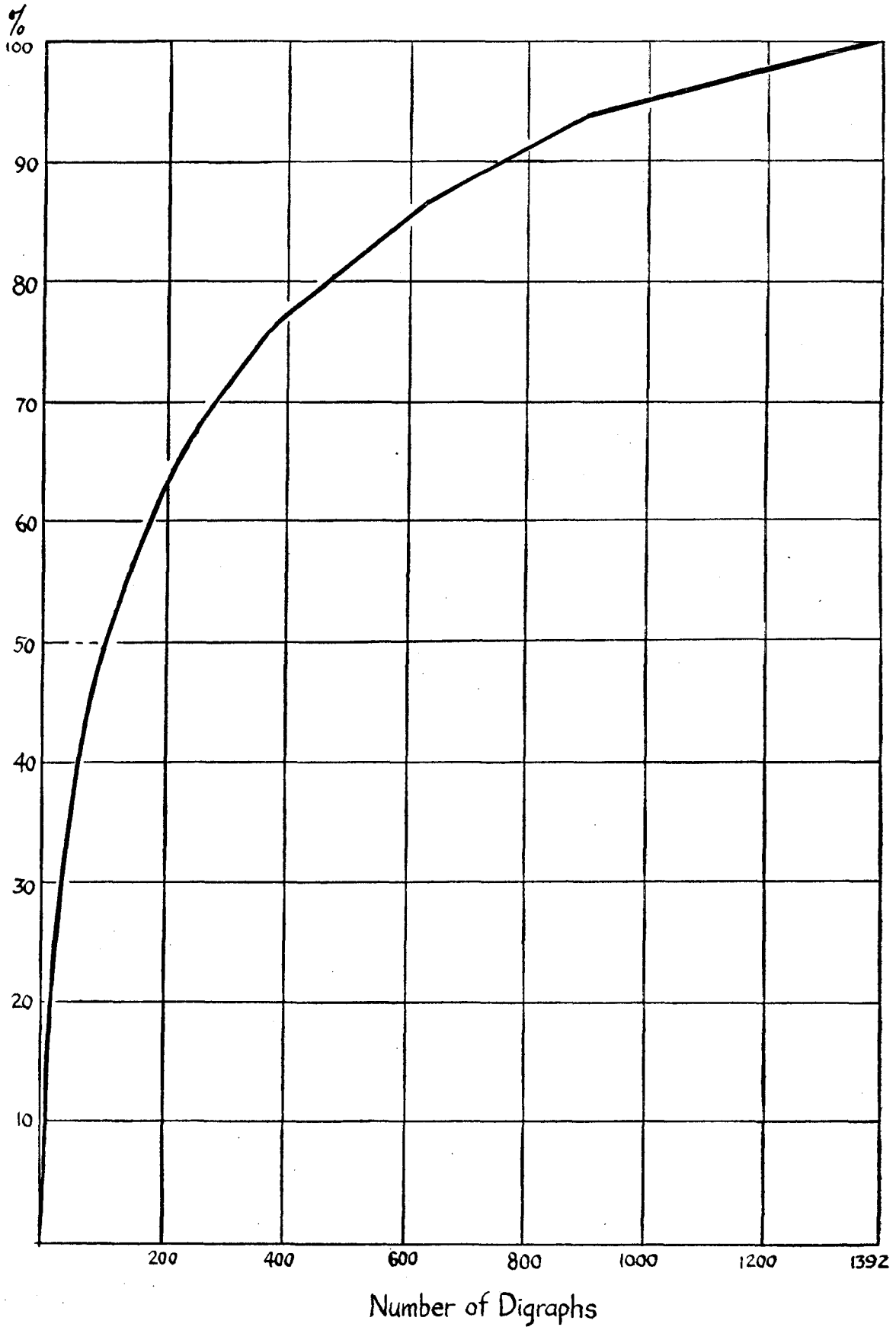
by SIGN-GROUPS



# CUMULATIVE FREQUENCIES OF DIGRAPHS

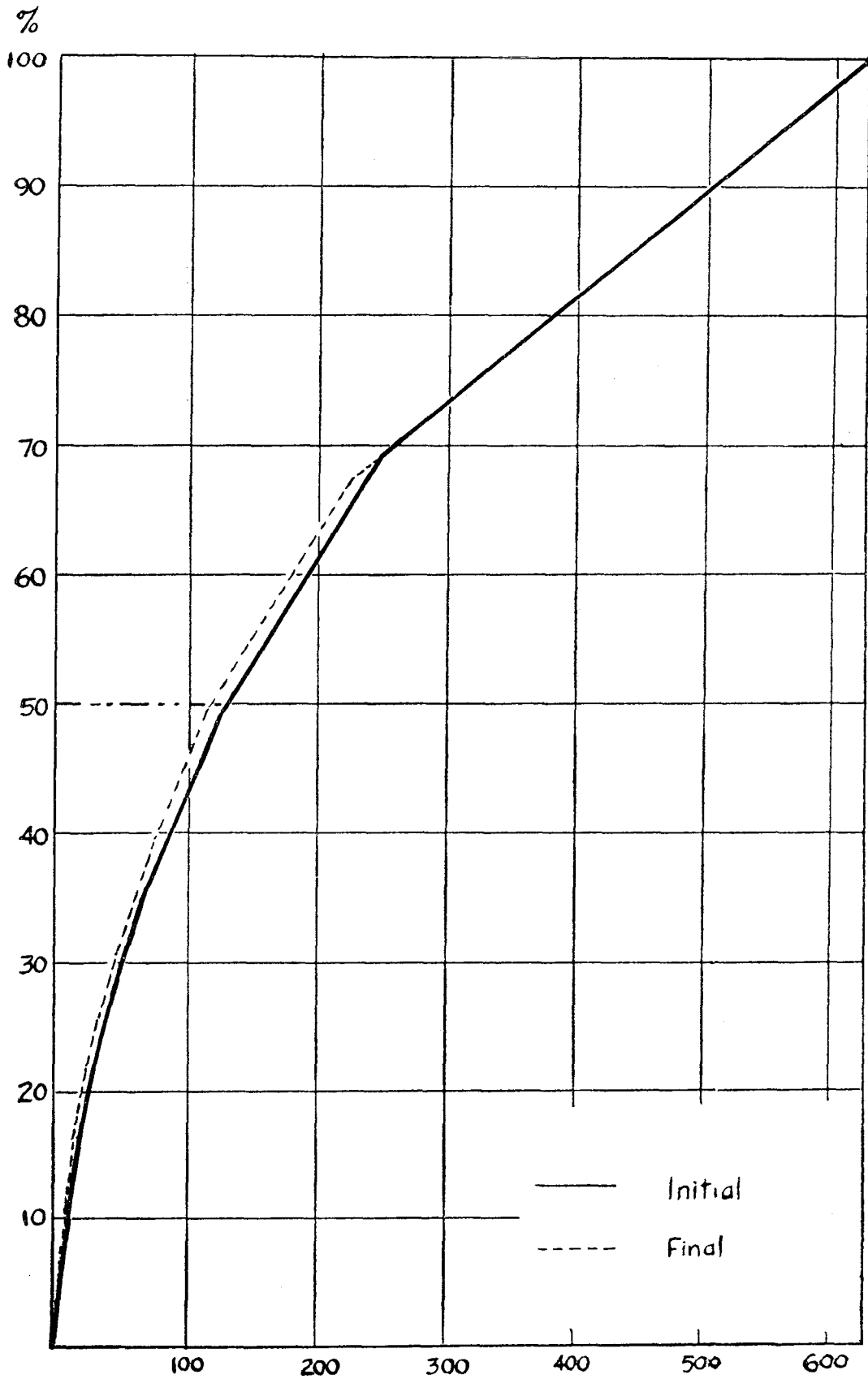
TOTAL Frequencies

by OCCURRENCES



# CUMULATIVE FREQUENCIES OF DIGRAPHS

INITIAL and FINAL Frequencies by SIGN-GROUPS



Number of Digraphs

Fig. 11.

120 CUMULATIVE FREQUENCIES OF DIGRAPHS

INITIAL and FINAL Frequencies by OCCURRENCES

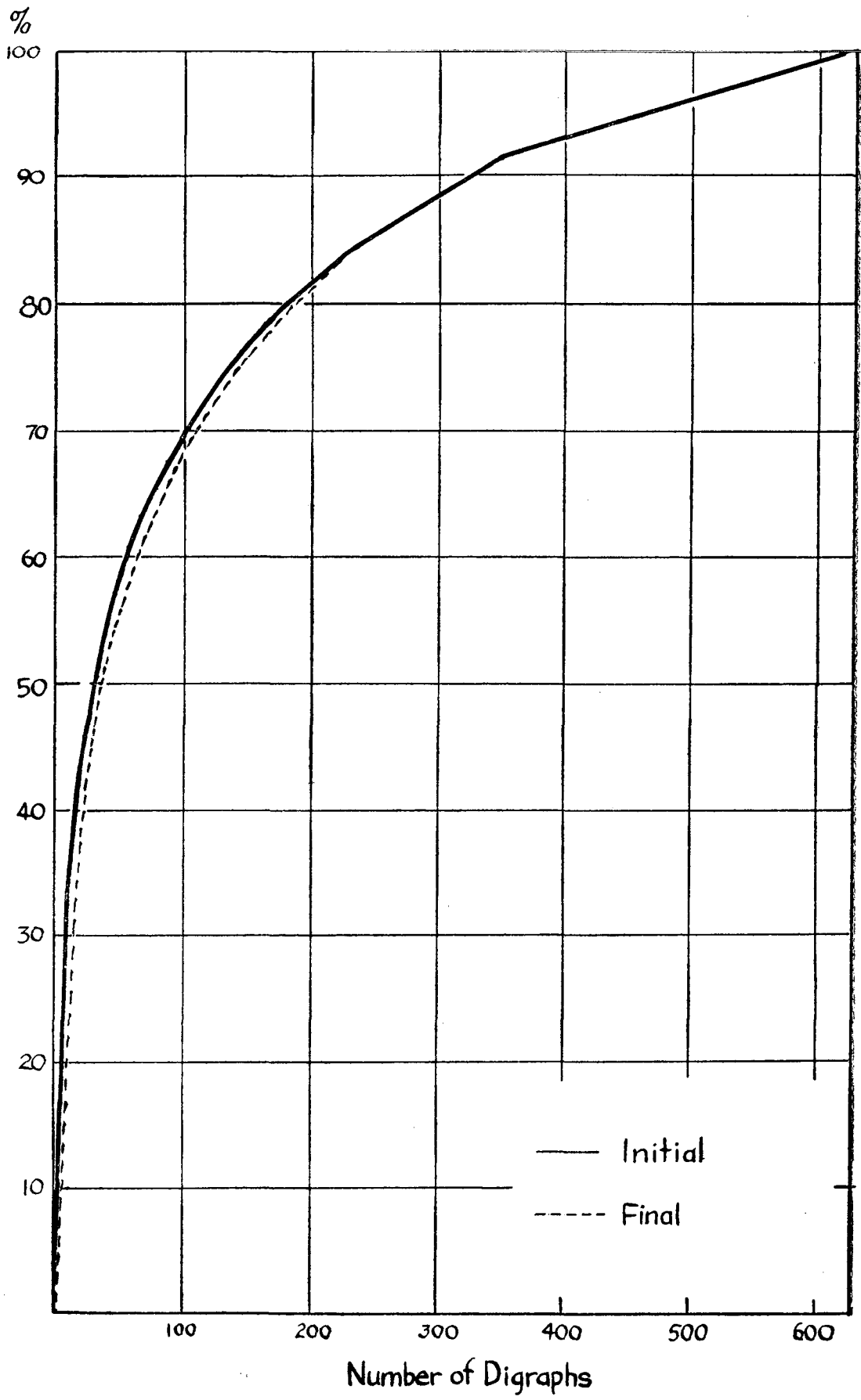


Fig. 12.

Final — by sign-groups:

18 𐤀𐤁 𐤀𐤂 𐤀𐤃 𐤀𐤄 16 𐤀𐤅 13 𐤀𐤆 𐤀𐤇 𐤀𐤈 𐤀𐤉 𐤀𐤊 𐤀𐤋 11 𐤀𐤌  
 𐤀𐤍 10 𐤀𐤎 9 𐤀𐤏 8 𐤀𐤐 7 𐤀𐤑 6 𐤀𐤒 5 𐤀𐤓 4 𐤀𐤔 3 𐤀𐤕 2 𐤀𐤖 1 𐤀𐤗  
 𐤀𐤘 𐤀𐤙 𐤀𐤚 𐤀𐤛 𐤀𐤜 𐤀𐤝 𐤀𐤞 𐤀𐤟 𐤀𐤠 𐤀𐤡 𐤀𐤢 𐤀𐤣 𐤀𐤤 𐤀𐤥 𐤀𐤦 𐤀𐤧 𐤀𐤨 𐤀𐤩  
 𐤀𐤪 𐤀𐤫 𐤀𐤬 𐤀𐤭 𐤀𐤮 𐤀𐤯 𐤀𐤰 𐤀𐤱 𐤀𐤲 𐤀𐤳 𐤀𐤴 𐤀𐤵 𐤀𐤶 𐤀𐤷 𐤀𐤸 𐤀𐤹 𐤀𐤺 𐤀𐤻 𐤀𐤼 𐤀𐤽 𐤀𐤾 𐤀𐤿

Final — by occurrences:

165 𐤀𐤁 119 𐤀𐤂 112 𐤀𐤃 101 𐤀𐤄 87 𐤀𐤅 79 𐤀𐤆 74 𐤀𐤇 72 𐤀𐤈 66 𐤀𐤉  
 46 𐤀𐤊 44 𐤀𐤋 40 𐤀𐤌 37 𐤀𐤍 36 𐤀𐤎 34 𐤀𐤏 31 𐤀𐤐 30 𐤀𐤑 28 𐤀𐤒 26 𐤀𐤓 25 𐤀𐤔 24 𐤀𐤕 23 𐤀𐤖  
 21 𐤀𐤗 20 𐤀𐤘 19 𐤀𐤙 18 𐤀𐤚 16 𐤀𐤛 15 𐤀𐤜 14 𐤀𐤝 13 𐤀𐤞 12 𐤀𐤟 11 𐤀𐤠  
 11 𐤀𐤡 10 𐤀𐤢 9 𐤀𐤣 8 𐤀𐤤 7 𐤀𐤥 6 𐤀𐤦 5 𐤀𐤧 4 𐤀𐤨 3 𐤀𐤩 2 𐤀𐤪 1 𐤀𐤫

EMMETT L. BENNETT, JR.

New Haven, Conn.



TABLE IV SHEET B

A	B	C	D
	F		
	J		
	N		

TOT	8	7	71	31	43	157	86	12	35	49	47	4	5	3	220	88	181	95	76	91	135
	8	8	102	71	75	337	129	15	67	86	80	7	5	5	422	172	577	163	105	204	266
INI		5	15	14	10	17	36	5		13	10		3	3	3	16	128	24	14	11	20
		6	16	17	18	29	63	5		23	14		3	5	3	30	388	37	18	13	54
FIN			21	7	1	17	17	1	2	5	13	2			167	5	20	21	3	22	57
			34	37	1	33	24	1	3	6	25	4			347	7	40	38	4	56	131
	፲	፳	፳፫	፳፱	፳፻	፳፻፱	፳፻፹	፳፻፺	፳፻፺፯	፳፻፺፰	፳፻፺፱	፳፻፺፻	፳፻፺፻፱	፳፻፺፻፺	፳፻፺፻፺፰	፳፻፺፻፺፱	፳፻፺፻፺፻	፳፻፺፻፺፻፱	፳፻፺፻፺፻፺	፳፻፺፻፺፻፺፰	፳፻፺፻፺፻፺፱
፲			2	1			4										1			3	
			12	28			4										1			3	
፳							3			1	7				8	1	1	1	3	2	5
							6			1	10				13	1	1	3	4	23	7
፳፫						1	1			3	2				1	1			2	1	1
						1	1			5	3				1	3			2	1	1
፳፻	2			1		30	3					1			4			2	3	1	7
	2			1		55	3					2			4			2	6	1	9
፳፻፱	1					5			1	4	1		1		6	1		1			5
	1					5			4	18	1		1		6	1		1			9
፳፻፺			1						1	1					2	2		2	1	1	1
			1						3	1					4	4		2	1	1	1
፳፻፺፰									1	1					2	2		2	1	1	1
									3	1					4	4		2	1	1	1
፳፻፺፱						1					1				3			3	4		2
						1					1				5			2	4		2
፳፻፺፻	1	1	2			6	2	3		2						3	3	14		2	1
	1	1	3			8	2	6		3						3	6	33		13	1
፳፻፺፻፱																	2				2
																	2				4
፳፻፺፻፺					3	1					1				3	2		6		7	
					5	1					1				4	3		11		10	
፳፻፺፻፺፰			1		5	2					2				1	4		1	2	5	1
			2		7	5					5				1	11		2	4	5	1
፳፻፺፻፺፱			2			1			1						3		1			2	3
			3			3			2						4		1			2	3
፳፻፺፻፺፻			3			3	1		3	1						2	1		3		1
			7			3	1		5	1						2	1		3		2
፳፻፺፻፺፻፱											1				3	1	3			5	2
											1				3	1	88			24	3
፳፻፺፻፺፻፺			2			1	2								1						
			3			2	2								1						
፳፻፺፻፺፻፺፰				1						1					2					2	2
				1						1					3					7	2
፳፻፺፻፺፻፺፱			1														1				1
			1														1				1
፳፻፺፻፺፻፺፻፱																	1		1		1
																	1		1		2



A	B	C	D
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TOT	16 31	149 598	66 179	21 43	2 3	20 75	16 28	98 156	113 155	91 151	20 28	2 2	149 292	8 16	161 308	154 321	146 508	5 21	1 2	1 1	3 8
INI	15 30	47 148	12 13			12 62	8 16	2 2	10 15	24 42			1 1	4 11	19 41	26 54	74 298	1 1			
FIN		9 123	35 141					61 84	5 8	14 34	1 1		88 187		67 123	21 85	50 94	1 6			1 3
	𐌸	𐌹	𐌺	𐌻	𐌼	𐌽	𐌾	𐌿	𐍀	𐍁	𐍂	𐍃	𐍄	𐍅	𐍆	𐍇	𐍈	𐍉	𐍊	𐍋	𐍌
𐍍				2 8						1 1						3 4					
𐍎	1 1	3 3	1 1			1 1	2 2	1 2		2 3			2 2		1 1		3 6				
𐍏		2 2	3 5			1 1		1 1	3 3	1 2					4 6	6 17					
𐍐		1 1	2 4						4 5	3 6			7 9		1 2	6 19	3 61				
𐍑		1 1	2 2					9 29	2 2	2 2							1 1				
𐍒		2 2	4 5					1 1		1 1					5 14		3 9				
𐍓									2 2				1 1					1 2			
𐍔		23 67	2 2			3 7		7 9	2 2	2 3	3 4				11 30	3 4	1 1				1 1
𐍕								1 1		2 2	1 1		1 1								
𐍖		3 6	3 3						1 1	2 2			2 2		4 5	3 3					
𐍗		1 1						1 1	1 1						1 1	2 8					
𐍘			1 79					2 2	2 3	1 1					2 13						
𐍙			8 10					19 27	6 10		1 1		1 1		8 21		1 1				
𐍚		1 2						3 3	1 1	2 2						1 4					
𐍛		1 1													1 1		1 1				
𐍜													1 1		2 2						
𐍝																					
𐍞																	2 2				







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	𐤀	𐤁	𐤂	𐤃	𐤄	𐤅	𐤆	𐤇	𐤈	𐤉	𐤊	𐤋	𐤌	𐤍	𐤎	𐤏	𐤐	𐤑	𐤒	𐤓	
𐤔							1 1	1 1				1 1									
𐤕													3 4								
𐤖			1 1					1 1	1 1	1 1		4 5	1 1								
𐤗								3 3		1 1			1 2	2 2							
𐤘		2 5					1 1						4 12				1 2				
𐤙		3 6					2 2		10 21			4 17	5 11		1 1						
𐤚				9 25					4 4			10 11	1 1								1 3
𐤛			1 1									1 1									
𐤜												13 25	1 1								
𐤝		2 3	2 16				3 3	3 6		1 1			2 2	1 1							
𐤞							3 5						10 21		2 2						
𐤟		1 1											2 2								
𐤠																					
𐤡			4 4				2 2	1 1					2 2								
𐤢				2 2	2 3		2 3	12 14	1 1			13 30	3 6	2 2							
𐤣		13 181						11 16				1 1	3 3	11 55	1 2						1 4
𐤤		5 10	3 6			2 3	1 7	7 9				7 8	1 1	1 1	2 3	1 2					1 1
𐤥			1 1	1 1		2 2	1 1	5 5		1 1		24 34	1 1	1 1							
𐤦		1 1		3 3			1 1	1 1		3 6		7 49									
𐤧		3 3					9 10			1 1	1 1			2 5		1 1					













A			
B			
I			
M	N	O	P

TOI	INI	FIN		ト	十	≠	≠	フ	フ	フ	フ	フ	フ	フ	フ	フ	フ	フ	フ	フ	フ
1/3		1/3																			
61/115	16/36	1/1			2/3	1/3	1/1	4/4													
6/9		4/6																			
36/51	14/17	1/1			1/2				1/1		1/1										
153/431	48/203	44/90			23/36	1/1	1/10	18/139	1/1					8/20	2/5	3/5				1/1	
64/223	33/170	3/8			5/16		1/1	2/5			1/2	3/6	1/1		2/2	1/1	1/112		1/1		
31/49	7/13	1/1					1/1	3/11													
13/19	5/5	2/3						1/1				1/1		1/1							
116/223	14/39	58/117		2/12	5/5		4/8	3/11		1/1		6/11									
17/22		8/8					2/3	1/4		2/2											
117/231	48/129	16/21		2/2	3/4	2/4	6/14	1/1	5/10		1/1	1/1	1/1	2/2		1/1					
66/180	12/20	37/129					1/1	2/4				4/4								1/1	
2/3		1/2																			
74/139	21/36	5/20			2/6		9/15	5/10	2/2	1/3		1/2		2/2					1/1		
33/52	18/29	1/1			3/5	2/3	2/4		2/3					2/2							
7/14	1/2	2/8																			
2/9																					
3/5	3/5							2/2													
1/3		1/3																			
1/1		1/1																			
				1/4	1/17	2/2	5/22	1/13	1/15	1/1	0/5	1/1	1/15	0/3	2/7	3/12	0/1	1/6			0/1

TABLE IV SHEET N

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	J		
M	N	O	P

	Г	Г	ЗФ	Г <sub>0</sub>	Г	Г	Г	Г	Г	Г	Г	Г	Г	Г	Г	Г	Г	Г	Г	Г
▽																				
Г				1 1		1 1			1 2					7 7	7 29	3 3			1 1	2 2
Г			1 1						1 2											
Г					3 5			1 1							1 1				2 2	4 7
Г			2 2	1 1	3 3	5 33		1 2	2 2					1 1			1 1		2 10	5 15
Г					3 7	13 19	1 2			1 2	2 3					2 2				1 1
Г								4 5						5 5	2 4					
Г							1 1	2 2						1 1						
Г					3 5	3 3								2 6	1 1	2 2		2 2	4 8	1 2
Г																				1 1
⊕			1 1	1 1	2 5	2 3	1 1	1 1	7 8		1 2			1 1			1 3	2 2	3 3	3 6
⊙	1 1					4 4								1 1					1 1	
⊖																				
⊗			2 2	1 2	2 10	1 2	1 1							3 3	1 1	4 14			2 2	1 2
⊘					3 3	1 3			1 2								1 3		1 1	1 1
⊙														2 2						
⊚																1 7				
⊛																				
⊜																				
⊝																				
⊞			1 9	2 7	1 3	5 24	1 7	1 1	0 2	0 1	1 3			4 22	2 4	2 9	1 4	0 1	1 5	4 15

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	𐌲	𐌳	𐌴	𐌵	𐌶	𐌷	𐌸	𐌹	𐌺	𐌻	𐌼	𐌽	𐌾	𐌿	𐍀	𐍁	𐍂	𐍃	𐍄	𐍅
𐍆																				
𐍇			2 3				1 1	2 3	10 16				8 23		2 5	1 1				
𐍈																				
𐍉		1 1					1 1	2 2	4 4					1 1	4 8	1 1				
𐍊			1 1				4 4	4 9	1 1					2 2	5 6	1 1				
𐍋		3 3						3 3					1 1	1 1	3 3	4 4				
𐍌			1 1	1 1						1 1			3 3	1 1	3 6					
𐍍													1 1							
𐍎		2 4		1 1			1 2	1 1					2 2	2 2	1 2	1 1				
𐍏			1 1													1 1				
𐍐		3 37						3 4	2 2	1 1				5 10	24 30	3 3				
𐍑								1 1	1 1				2 7	5 10		1 1				
𐍒																				
𐍓								2 3	1 1					6 8	8 11	3 3				
𐍔								2 3	1 2				1 2	2 3	1 4	1 1		1 2		
𐍕			2 3																	
𐍖																1 2				
𐍗		1 2																		
𐍘																				
𐍙																				
𐍚		2 18	1 9				0 1	3 8	1 5	1 10	0 1		2 16	2 17	4 9	3 10	0 1			

TABLE IV SHEET P

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										1			1							1
			1		2															1
			2		4															3
				3						1	1		3							2
		2			1						1		1							19
		3			2							2	4							6
					1					3										1
					1					6										2
					2															8
					2															2
					2															8
																				1
					1	1				1			5							1
					10	1				1			22							11
																				1
																				9
					1															
					1															
				1	2					3			1							1
				1	2					3			2							5
			1								1									1
			1				1				1									1
																				1
																				1
																				1
																				0
																				1
	0	3		1	2	1	1	0	0	1	6	0	4	1					0	
	1	11		1	14	3	2	1	3	1	14	9	12	2					2	