

Preliminary proposal to encode Linear Elamite in Unicode

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1 Introduction

The document presents to the Unicode Technical Committee (UTC) a script that is referred to as ‘Linear Elamite’. This script is relatively unknown to the UTC and to the Unicode community at-large as no information about it has been provided to date, apart from my request for a tentative allocation for it in the Supplementary Multilingual Plane in 2019. My aim is that this preliminary proposal will establish the basis for an encoding that will ultimately lead to the inclusion of Linear Elamite in the Unicode standard.

Since being brought to light in the early 20th century CE, this undeciphered script from the 3rd millennium BCE continues to engage, excite, and elude scholars of writing systems and the palaeography of the ancient Middle East. This script was used in Elam, a region that coincides with the southwest of modern-day Iran. The language recorded in the script is unknown, but scholars suggest that it is Elamite, an isolate unrelated to other recorded languages. Elam was home to two other writing system that preceded and followed Linear Elamite. The first is referred to by scholars as ‘Proto-Elamite’, for which a Unicode encoding has been proposed (see Pandey 2020a). The other is ‘Elymaic’, an Aramaic-based writing system that was used several millennia later and that is completely unrelated to Linear Elamite, which has already been included in Unicode (see Pandey 2017). While there may be some relationship between the ‘Proto’ and ‘Linear’ scripts for Elamite, the exact nature is unclear; but, they are two of the earliest attested records of writing, along with Proto-Cuneiform (see Pandey 2020b).

Scholars have actively studied Linear Elamite after sources were identified at Susa in 1901 CE by a French archaeological expedition. While experts have agreed upon readings of certain signs and sign sequences, there has been no consensus on the meanings of the majority of the signs in the attested inventory. Nonetheless, the mysteries of the script continue to be lifted. In 2020, François Desset announced that he had deciphered the script, with a publication of his results to appear in the summer of 2020 (see also Desset 2018).

In addition to attempts at decipherment, researchers have made several advancements for Linear Elamite by using digital technologies to enable research of the script. In particular, Michael Mäder and Simon Plachatzik have used computational methods to assemble a database of attested texts; to produce high-resolution digital images of sources; to conduct analyses of signs and sign sequences; and to create a font for the script. They have made such resources available to the public as part of the Online Corpus of Linear Elamite Inscriptions (OCLEI, <http://elamicon.org>) project at the Institut für Sprachwissenschaft, Universität Bern.

The active usage of the script exemplifies the need for a proper encoding for Linear Elamite in Unicode. It is a promising sign that OCLEI utilizes code points in the Private Usage Area (PUA) of Unicode for encoding Linear Elamite characters. Although the code points are not registered specifically for Linear Elamite, usage of the PUA provides OCLEI with the ability to store data and to display it in online content using a font developed by the project. But, usage of the PUA for Linear Elamite is not a stable solution for character or text encoding, as the same code points may be used by multiple users for other scripts and characters. A dedicated encoding for Linear Elamite in Unicode will enable OCLEI and other experts to continue their research using a standardized repertoire for the script.

After a thorough examination of the OCLEI resources and the available scholarship on Linear Elamite, I have determined that there is sufficient information to develop a preliminary proposal for encoding the script in Unicode. This document provides a general overview of the script and the 358 distinctive characters that are attested in 56 extant sources. It is highly likely that a good number of these characters are allographs. In fact, OCLEI has presented a base syllabic repertoire of 110 signs with 185 collations, and 73 signs that have yet to be grouped. A tentative names list and code chart follows p. 44. The graphical representations of signs in this document are based on the Linear Elamite font developed and made available by OCLEI.

It is encouraging that there is active interest and research on Linear Elamite. As additional information is made available, I intend to use it to revise and expand my proposal. I will continue to examine OCLEI data to fine-tune the repertoire. I especially look forward to the publication of Dessel's decipherment of the script, which will surely provide substance for determining a tangible repertoire of distinctive Linear Elamite characters with semantic values. Until that information is made available, I will continue to conduct research on the available materials and to engage those with interests in the script. Towards that aim, I request feedback on the repertoire I've presented, as well as additional information on the values of Linear Elamite signs. A revised proposal developed in collaboration with experts is forthcoming.

2 Sources

Texts in the script appear to flow both from right to left and from left to right, and may proceed from top to bottom or bottom to top.

The script is attested primarily in inscriptions on stone, silver vessels, and clay. There are a total of 56 documented sources, which have been segmented by Mäder (2020) according to find-spots into Western Elamite (lowlands), Central Elamite (highlands), and Eastern Elamite. The sources are catalogued using basic letters of the Latin alphabet, ie. A-Z. When the 27th source was identified, the alphabet was recycled and a prime sign was added after the letters, ie. A'-P'.

Text ID	Group	Region	Material	Text Dir.	# Chars	# Distinctive Chars
A	Susa	western	stone	RTL	50	34
B	Susa	western	stone	LTR	35	23
C	Susa	western	stone	RTL	37	24
D	Susa	western	stone	RTL	56	37
E	Susa	western	stone	RTL	29	24
F	Susa	western	stone	RTL	48	33
G	Susa	western	stone	RTL	44	27
H	Susa	western	stone	RTL	66	33
I	Susa	western	stone	RTL	37	29
J	Susa	western	stone	RTL	18	13

Text ID	Group	Region	Material	Text Dir.	# Chars	# Distinctive Chars
K	Susa	western	stone	RTL	39	23
L	Susa	western	stone	RTL	11	9
M	Susa	western	stone	RTL	20	18
N	Susa	western	stone	RTL	22	20
O	Div	western	stone	RTL	37	35
Or	Div	western	stone	RTL	4	4
P	Susa	western	stone	LTR	7	7
Q	Pers	central	silver vase	RTL	48	31
R	Susa	western	stone	RTL	7	7
Rr	Susa	western	stone	RTL	4	4
S	Sha	eastern	clay jug	RTL	6	6
T	Susa	western	stone	RTL	3	3
U	Susa	western	stone	RTL	20	16
V	Liga	eastern	soapstone	RTL	3	3
W	Phoe1	central	silver kettle	RTL	126	52
X	Mah	central	silver vase	RTL	56	34
Y	Mah	central	silver vase	RTL	126	66
Yb	Mah	central	silver vase	LTR	8	8
Z	Mah	central	silver vase	RTL	160	61
A'	Phoe2	central	silver kettle	RTL	135	52
B'	Jir	eastern	clay tablet	LTR	94	9
B'r	Jir	eastern	clay tablet	LTR	6	5
C'	Jir	eastern	clay tablet	LTR	97	16
C'r	Jir	eastern	clay tablet	LTR	8	7
D'	Jir	eastern	clay tablet	BoustroR	71	19
E'	Jir	eastern	clay tablet	RTL	5	4
F'	Schø	central	silver vase	RTL	65	33
G'	Chris	eastern	clay tablet	LTR	4	4
H'a	Mah	central	silver vase	RTL	48	34
H'b	Mah	central	silver vase	RTL	6	6
I'a	Mah	central	silver vase	RTL	4	4
I'b	Mah	central	silver vase	RTL	26	20
I'c	Mah	central	silver vase	RTL	27	17
J'	Mah	central	silver vase	RTL	16	13
K'a	Mah	central	silver vase	RTL	5	5
K'b	Mah	central	silver vase	RTL	18	12
K'c	Mah	central	silver vase	RTL	9	8
K'd	Mah	central	silver vase	RTL	5	5
L'a	Mah	central	silver vase	RTL	4	4
L'b	Mah	central	silver vase	RTL	2	2
L'c	Mah	central	silver vase	RTL	6	6
L'd	Mah	central	silver vase	RTL	7	6
M'	Time	central	silver vase	RTL	27	27
N'	Mah	central	silver vase	LTR	70	37
O'	Mah	central	silver vase	RTL	129	48
P'	Gonur	eastern	pottery	RTL	2	2

3 Text Specimens



Figure 1: Linear Elamite text A. Drawing from Frank 1912: 29; digitized text from OCLEI.

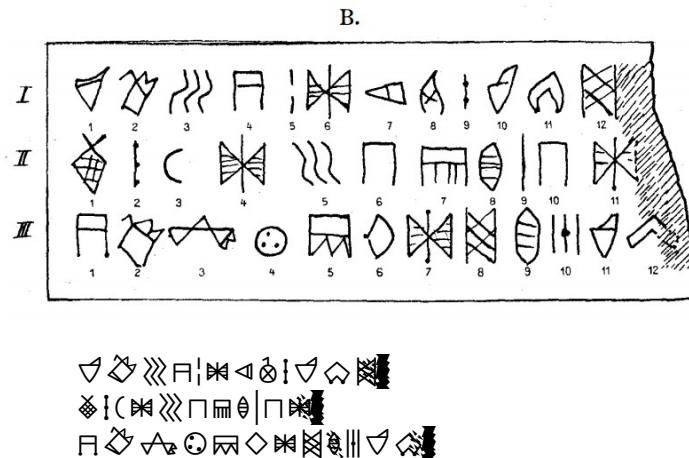


Figure 2: Linear Elamite text B. Drawing from Frank 1912: 32; digitized text from OCLEI.



Figure 3: Linear Elamite text C. Drawing from Frank 1912: 34; digitized text from OCLEI.

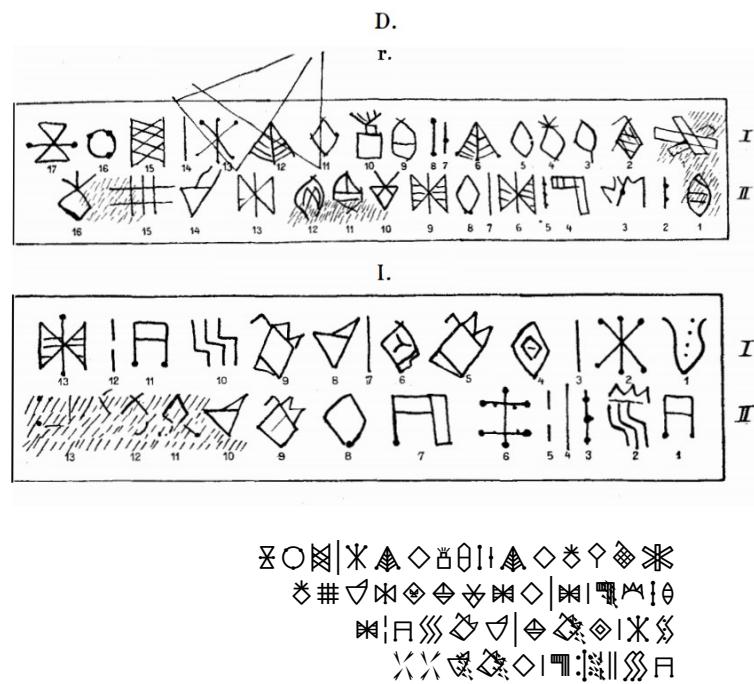


Figure 4: Linear Elamite text D. Drawing from Frank 1912: 37; digitized text from OCLEI.

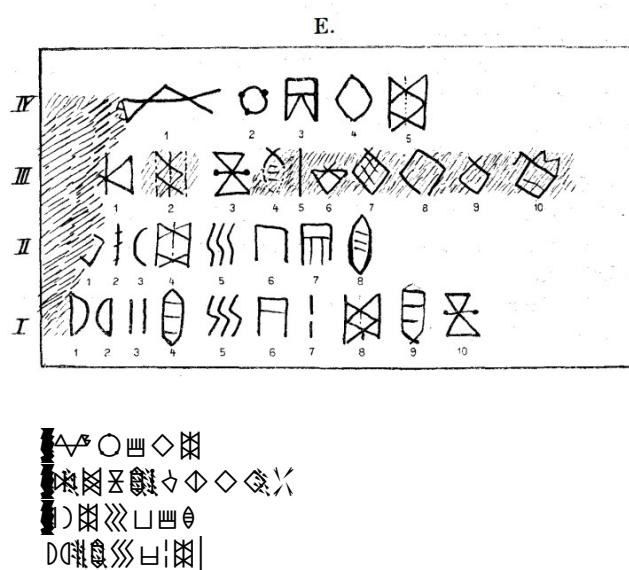
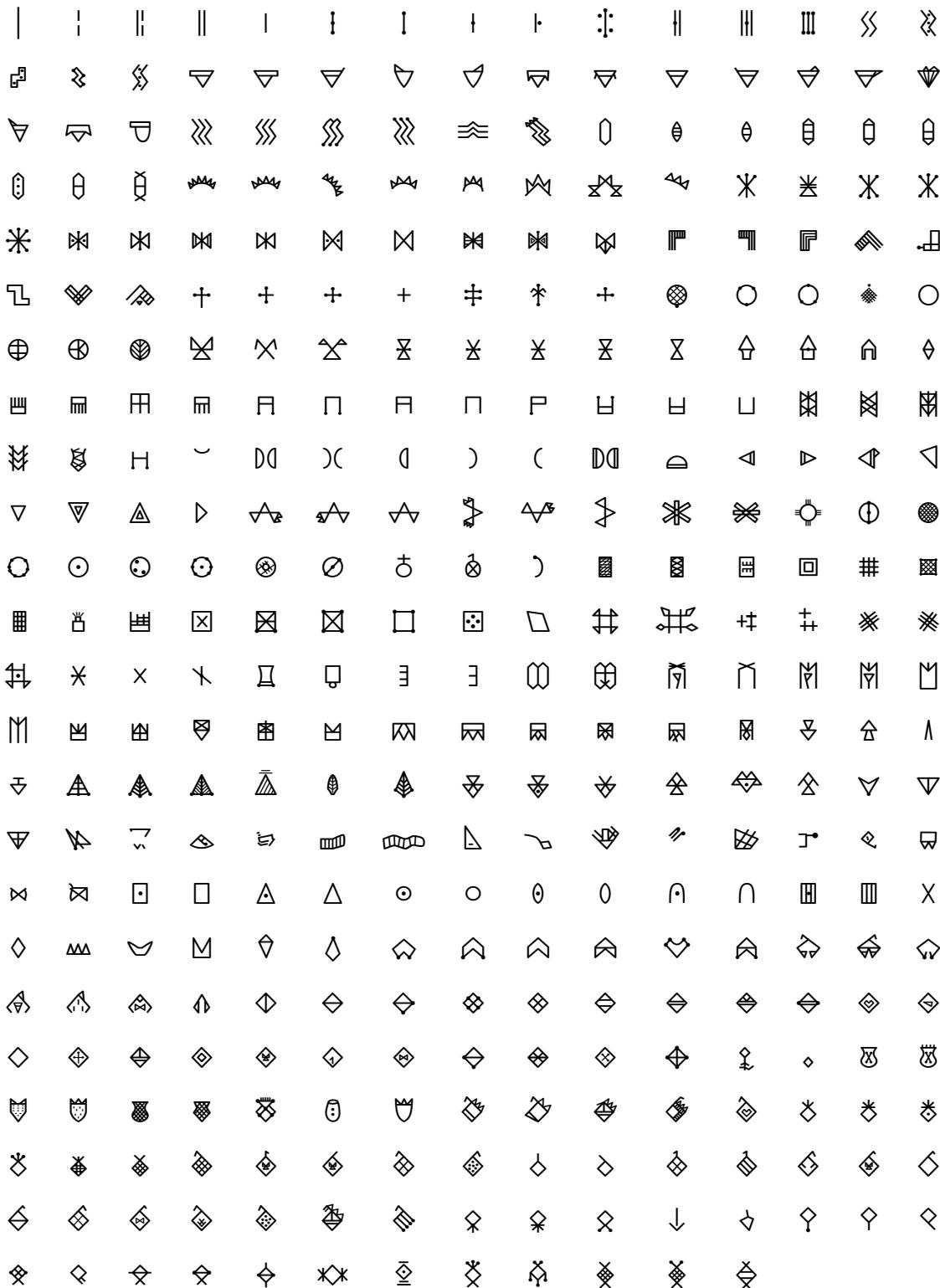


Figure 5: Linear Elamite text E. Drawing from Frank 1912: 39; digitized text from OCLEI (adapted to reflect tracing in Frank 1912).

4 Attested signs

There are 357 distinctive signs attested in the extant sources:



5 Sign frequencies

Occurrences	Sign (count of occurrences)
> 50	(88), (81), { (72), { (60), { (56)
30-49	(47), { (41), { (39), (38), □ (37), ✩ (36), ✩ (36), ✩ (31), △ (30)
20-29	(27), ✩ (26), † (23), □ (23), (22), ✩ (22), ✩ (21),) (21)
13-19	{ (19), ✩ (19), ✩ (18), ✩ (17), + (16), ✩ (16), ✩ (16), ✩ (16), ✩ (16), ✩ (14), ✩ (14), ✩ (14), ✩ (14), ✩ (13)
12	»», ‡, ‡, ✩, ✩, ✩, ✩, ✩, ✩, ✩, ✩, ✩, ✩, ✩, ✩, ✩
11	◊, ◊, ◊, ◊, ✩, ✩, □, □, ✩, ✩, ✩, ✩, ✩
10	»», ✩, ✩, ✩, ✩, ✩, ✩, ✩
9	»», ✩, ✩, ✩
8	◊, ✩, ✩
7	»», ✩, ✩, ✩, ✩, ✩, ✩, ✩
6	»», »», ‡, ✩, ✩, ✩, ✩, ✩, ✩
5	, ✩, ✩, ✩, ✩, ✩
4	»
3	»», ✩, ✩, ✩
2	+, ✩, ✩, ✩, ✩
1	»

6 Sign Values

Scholars have proposed values for 107 signs:

Signs	Count	Proposed Value
❖, ◁, ◁, ◁, ◁, ◁	6	in
❖, ❖, ❖, ❖	4	šu
❖, ❖, ❖, ❖	4	ši
!, , ,	4	na
❖, ❖, ❖, ❖, ❖, ❖, ❖, ❖	8	k
*, *, *, *	4	š
❖, ❖, ❖, ❖	3	pu
	1	zu
	1	ša
{}	1	me
), (, ~	3	ni
□, □, □	3	še
❖, ❖, ❖, ❖	5	en
❖, ❖, ❖, ❖	4	HAL
❖, ❖	2	maš
❖, ❖, ❖, ❖, ❖, ❖	6	KI
❖, ❖	2	ri
❖, ❖, ❖, ❖, ❖, ❖	6	ri
❖, ❖, ❖, ❖, ❖	5	ha
❖, ❖, ❖, ❖, ❖, ❖	6	p
❖, ❖, ❖	3	pi
❖, ❖, ❖	3	e
*, *	2	ia
)	1	b
❖, ❖	2	t
❖	1	l
❖, ❖, ❖, ❖, ❖, ❖, ❖, ❖, ❖	9	ih
❖, ❖, ❖	3	ta
❖, ❖, ❖, ❖, ❖	5	ki

7 The Syllabary Proposed by OCLEI

The association of values with multiple signs may be a result of allography. Some signs may have been used at particular time periods and in different locations within Elam.

Plachtzik, Mäder, and Rawyler (2017) conducted extensive analysis on sign frequencies, sequences, and graphical shapes. The result of their research is a Linear Elamite syllabary which collates signs that may possess the same value. A representation of the syllabary containing 110 primary signs and 185 collations (285 total signs) is presented below. A serial number has been assigned to syllable groups to assist with references.

(#1)	(#2)	(#3)
(#4)	(#5)	(#6)
{	l	t
		t ·
(#7)	(#8)	(#9)
(#10)	(#11)	(#12)
☒	☒☒	☒☒☒☒
☒☒		
(#13)	(#14)	(#15)
≡≡	□□	＊＊＊＊
	□☒☒	

(#16)		(#17)		(#18)
※	+	+	+	⋮
	+	+	+	⋮
	+	+	+	⋮
	+	+	+	⋮
(#19)		(#20)		(#21)
※	※	※	※	††
※	†	※	※	††
※	†	※	※	††
(#22)		(#23)		(#24)
×	●	●	●	●
×	●	●	●	●
×	●	●	●	●
(#25)		(#26)		(#27)
●	○	○	○	○
●	○	○	○	○
●	○	○	○	○
(#28)		(#29)		(#30)
❖	◇	◇	❖	❖
❖	◇	◇	❖	❖
❖	◇	◇	❖	❖
(#31)		(#32)		(#33)
◇	◇	◇	◇	◇
◇	◇	◇	◇	◇
◇	◇	◇	◇	◇
(#34)		(#35)		(#36)
⊖	⊖	⊖	⊖	⊖
⊖	⊖	⊖	⊖	⊖
⊖	⊖	⊖	⊖	⊖

(#{37})



❖ ❖ ❖ ❖ ❖ ❖

(#{38})



(#{39})



(#{40})



□ □

(#{41})



❖ ❖ ❖ ❖

(#{42})



(#{43})



(#{44})



(#{45})



❖ ❖ ❖ ❖

(#{46})



❖ ❖ ❖

(#{47})



❖ ❖

(#{48})



❖ ❖

(#{49})



(#{50})



(#{51})



(#{52})



(#{53})



(#{54})



(#{55})



(#{56})



(#{57})



❖ ❖

(#58)	(#59)	(#60)
❖	❖	❖
❖ ❖ ❖ ❖ ❖ ❖	❖ ❖ ❖	
(#61)	(#62)	(#63)
❖	❖	❖
	❖	❖
	❖ ❖	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖
(#64)	(#65)	(#66)
❖	❖	❖
❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	❖
(#67)	(#68)	(#69)
❖	❖	❖
❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	❖ ❖ ❖ ❖ ❖ ❖ ❖
(#70)	(#71)	(#72)
❖	❖	❖
❖ ❖	❖ ❖	❖ ❖
(#73)	(#74)	(#75)
❖	❖	❖
❖ ❖ ❖	❖ ❖ ❖	❖ ❖ ❖
(#76)	(#77)	(#78)
❖	❖	❖
		❖ ❖ ❖ ❖

(#{79})



(#{80})



𠁿 𠁿 𠁿 𠁿 𠁿 𠁿

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(#{83})



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𠁿 𠁿 𠁿 𠁿

(#{85})



(#{86})



𠁿 ⊕ 𠁿 ⊗ 𠁿

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∅ ⊕

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𠁿 𠁿 𠁿

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(#{99})



(#100)	(#101)	(#102)
(#103)	(#104)	(#105)
(#106)	(#107)	(#108)
(#109)	(#110)	

There are 73 attested signs that are not part of the OCLEI syllabary:

It is likely that these will be added as either primary signs or collations as additional research is conducted.

8 Sign Inventory

The chart below provides details on the 358 distinctive characters attested in Linear Elamite texts. The ‘count’ column indicates the total number of occurrences of a sign. The ‘group’ indicates the serial number of the syllable group of which the sign is a member.

#	Sign	Count	Group	Sources in which sign is attested
1		81	1	15 : B, C, D, E, F, H, I, Q, Z, A', C'r, F', J', L'a, O'
2		88	1	22 : A, D, E, G, H, J, N, S, U, Y, Z, A', B', C', D', E', I'b, I'c, J', K'b, K'c, K'd
3		47	2	22 : A, B, D, E, F, I, M, N, P, Q, U, W, X, Y, Z, A', F', H'a, I'b, J', N', O'
4		3	2	1 : Q
5		12	3	11 : A, D, E, F, I, K, M, P, C'r, H'a, K'a
6	{}	72	4	26 : A, B, C, D, E, F, G, H, I, J, N, Q, U, W, X, Y, Yb, Z, A', F', I'b, I'c, J', K'b, N', O'
7	↑	22	5	16 : D, F, G, H, I, M, N, R, W, Y, Z, A', D', L'd, M', O'
8	†	23	6	16 : D, F, G, J, W, X, Y, Z, A', C'r, F', H'a, I'c, J', N', O'
9	•	1	6	1 : J
10		1	7	1 : Q
11		38	8	18 : A, B, F, H, Q, R, X, Y, Z, A', F', H'a, I'b, J', K'c, K'd, N', O'
12	§§	1	9	1 : A'
13	§§	4	10	3 : I, M, Q
14	§§	11	10	3 : D, W, A'
15	§§§	5	11	4 : D, K, M, W
16	§§§	11	12	9 : A, D, E, F, I, K, P, U, A'

#	Sign	Count	Group	Sources in which sign is attested
17	☒	1	12	1 : Y
18	☒	1	12	1 : H'a
19	☒	7	12	6 : B, C, E, F, I, Q
20	≡≡	2	13	2 : Y, M'
21	☒	8	14	5 : X, Y, Z, L'd, N'
22	☒	4	14	2 : H'a, O'
23	☒	1	14	1 : I'c
24	☒	22	15	11 : A, D, F, G, H, Q, U, X, Z, H'a, O'
25	☒	14	15	5 : J, W, A', D', H'a
26	☒	1	15	1 : D
27	☒	1	15	1 : Y
28	☒	1	16	1 : Y
29	✚	16	17	11 : Q, X, Y, Z, H'a, H'b, I'a, I'b, K'c, L'c, O'
30	✚	4	17	2 : A', B'r
31	✚	3	17	3 : I, Y, N'
32	+	1	17	1 : T
33	✚	1	17	1 : F'
34	☒	1	17	1 : L
35	׃	4	18	3 : D, K, A'

#	Sign	Count	Group	Sources in which sign is attested
36	‡	5	18	3 : Y, Z, M'
37	※	2	19	1 : X
38	+‡	5	19	2 : W, A'
39	※	13	19	5 : Y, Z, F', H'b, O'
40	#‡	2	19	2 : D, K
41	‡‡	1	19	1 : M
42	*	12	20	9 : A, D, F, H, I, M, Y, Z, A'
43	※	1	20	1 : Y
44	‡‡‡	11	21	11 : F, G, H, X, Yb, A', B'r, H'a, M', N', O'
45	‡‡‡‡	1	21	1 : O'
46	X	2	22	1 : J
47	†	3	22	1 : Z
48	¶	11	23	6 : X, F', H'a, I'b, N', O'
49	¶¶	2	23	1 : Z
50	¶¶¶	1	23	1 : Y
51	¶¶¶¶	5	24	4 : I'b, K'a, L'a, O'
52	¶¶¶¶¶	2	24	1 : Y
53	¶¶¶¶¶¶	1	24	1 : Z
54	¶¶¶¶¶¶¶	1	24	1 : X

#	Sign	Count	Group	Sources in which sign is attested
55	𒃩	1	25	1 : z
56	𒃪	1	25	1 : Y
57	𒃫	1	26	1 : J'
58	𒃬	2	27	2 : Y, M'
59	𒃭	10	28	6 : J, Q, W, Z, F', O'
60	𒃮	1	28	1 : X
61	◇	56	29	26 : A, B, C, D, E, F, G, H, I, J, K, L, M, N, Q, U, W, X, Y, Z, A', C'r, F', J', L'd, N'
62	❖	36	30	16 : A, B, C, F, G, H, I, N, W, X, Y, Z, A', H'a, L'd, N'
63	❖	12	30	7 : F', H'a, H'b, I'b, I'c, K'b, O'
64	❖	3	30	1 : K
65	❖	2	30	1 : J'
66	❖	2	30	2 : D, K'a
67	◇	41	31	21 : E, G, H, I, K, W, X, Y, Yb, Z, A', F', H'a, I'b, I'c, J', K'b, K'c, M', N', O'
68	◇	2	32	2 : I, Z
69	◇	2	32	1 : A'
70	❖	2	32	2 : Y, M'
71	❖	1	32	1 : Y
72	❖	1	32	1 : Z
73	❖	1	33	1 : Y

#	Sign	Count	Group	Sources in which sign is attested
74	❖	2	34	2 : Y, M'
75	❖	16	35	10 : D, F, G, H, Q, S, A', F', G', H'a
76	❖	4	35	2 : Y, Z
77	❖	16	36	9 : A, D, H, R, U, W, Z, A', K'b
78	❖	16	36	9 : X, Y, H'a, I'b, I'c, K'a, M', N', O'
79	❖	2	36	2 : L, W
80	❖	9	37	7 : F, G, H, J, N, X, Z
81	❖	2	37	2 : A, S
82	❖	2	37	1 : Y
83	❖	2	37	2 : G, I
84	❖	1	37	1 : B
85	❖	1	37	1 : F
86	❖	1	38	1 : Q
87	❖	1	39	1 : D'
88	□	2	40	2 : Rr, T
89	□	2	40	2 : M, Or
90	❖	5	41	4 : Y, Z, A', N'
91	❖	3	41	2 : Y, Z
92	❖	2	41	2 : D, A'

#	Sign	Count	Group	Sources in which sign is attested
93	❖	1	41	1 : Q
94	❖	2	42	2 : Yb, Z
95	❖	3	43	3 : X, I'b, N'
96	❖*	1	44	1 : W
97	❖	6	45	4 : M, W, Y, A'
98	❖	6	45	6 : X, Yb, F', H'a, M', O'
99	❖	1	45	1 : Y
100	❖	1	45	1 : A'
101	❖	10	46	7 : D, F, G, H, Q, Y, Z
102	❖	4	46	3 : I, Q, Y
103	❖	3	46	3 : V, F', G'
104	❖	31	47	17 : D, I, K, Q, S, X, Y, Z, F', H'a, H'b, I'a, I'c, J', L'b, N', O'
105	❖	6	47	2 : W, A'
106	❖	6	48	4 : F', I'c, K'b, O'
107	❖	1	48	1 : L'b
108	❖	2	49	2 : K'c, L'c
109	❖	1	50	1 : F'
110	❖	1	51	1 : H'a
111	❖	2	52	1 : E'

#	Sign	Count	Group	Sources in which sign is attested
112	❖	5	53	5 : X, Y, Z, H'a, N'
113	❖	1	54	1 : X
114	❖	1	55	1 : I
115	❖	1	56	1 : Y
116	❖	60	57	27 : A, C, E, F, G, H, I, J, K, N, P, Q, U, W, X, Y, Z, A', F', H'a, I'a, I'b, I'c, K'b, M', N', O'
117	❖	10	57	7 : A, B, C, E, G, I, S
118	❖	19	58	12 : E, K, N, Q, R, W, Y, Z, F', H'a, J', O'
119	❖	5	58	4 : D, C'r, D', G'
120	❖	2	58	2 : F', L'a
121	❖	2	58	1 : D'
122	❖	1	58	1 : v
123	❖	1	58	1 : I'c
124	❖	3	59	3 : F, I, L
125	❖	2	59	2 : A, U
126	❖	1	59	1 : D
127	❖	1	60	1 : K
128	❖	5	61	3 : G, H, A'
129	❖	3	62	1 : W
130	❖	1	62	1 : N

#	Sign	Count	Group	Sources in which sign is attested
131	▽	21	63	10 : A, B, C, D, F, G, H, I'c, K'b, O'
132	▽	8	63	2 : K, A'
133	▽	4	63	2 : N, W
134	▽	3	63	2 : Y, Z
135	▽	2	63	1 : Q
136	▽	3	63	2 : X, N'
137	▽	2	63	1 : F'
138	▽	2	63	2 : Yb, M'
139	▽	3	63	1 : o'
140	◁	5	64	4 : L, Y, Z, M'
141	◁	3	64	3 : A, B, N
142	▷	5	64	4 : F, H, J, N'
143	◁	3	64	1 : z
144	▽	1	64	1 : w
145	▲	1	64	1 : o'
146	▽	1	64	1 : Yb
147	↖	1	64	1 : U
148	↳	1	64	1 : L
149	▲	7	65	1 : w

#	Sign	Count	Group	Sources in which sign is attested
150		4	65	1 : A'
151		2	65	1 : D
152		1	65	1 : W
153		1	65	1 : N'
154		4	65	1 : O'
155		2	66	2 : Y, M'
156		4	67	4 : C, D, F, M
157		4	67	4 : F', I'b, L'c, N'
158		2	67	1 : O'
159		2	67	2 : Q, H'a
160		1	67	1 : Z
161		1	67	1 : Z
162		1	67	1 : W
163		1	67	1 : A'
164		4	68	4 : A, C, H, U
165		2	68	2 : F', H'a
166		2	68	2 : R, Rr
167		1	68	1 : B
168		1	68	1 : A'

#	Sign	Count	Group	Sources in which sign is attested
169	△▽▢	1	68	1 : E
170	▢	17	69	12 : H, I, N, X, Y, Yb, Z, H'a, I'b, M', N', O'
171	▢▽	7	69	5 : G, Y, Z, A', N'
172	▢▽	7	69	7 : C, D, F, H, F', I'c, K'b
173	▢▽	1	69	1 : w
174	▷	1	69	1 : E
175	▷	1	69	1 : M'
176	▷	1	70	1 : N
177	▷	1	70	1 : z
178	△▢	1	71	1 : w
179	▣	36	72	4 : X, Y, Z, N'
180	▣	19	72	8 : A, C, E, F, G, H, J, R
181	▣	14	72	2 : w, A'
182	▣	11	72	5 : B, D, I, P, U
183	▣	8	72	4 : I'b, K'c, L'c, O'
184	▣	1	72	1 : M'
185	Ⓜ	3	72	1 : w
186	Ⓜ	1	72	1 : w
187	▣	1	72	1 : F'

#	Sign	Count	Group	Sources in which sign is attested
188	❖	12	73	10 : A, C, D, E, G, H, M, N, Q, W
189	❖	2	73	1 : A'
190	❖	1	73	1 : E'
191	☒	11	74	8 : C, D, F, H, K, Q, Z, A'
192	☒	3	74	3 : E, Y, N'
193	☒	2	74	2 : N, H'a
194	☒	8	75	7 : M, Y, Z, A', F', I'c, M'
195	☒	9	75	6 : A, W, X, H'a, N', O'
196	☒	1	76	1 : Y
197	☒	1	77	1 : E'
198	☒	6	78	5 : A, B, D, E, K
199	☒	6	78	4 : Z, A', I'b, K'a
200	☒	2	78	2 : Y, M'
201	☒	1	78	1 : N'
202	☒	2	79	1 : B'r
203	☒	26	80	17 : A, B, C, I, O, Q, T, X, Y, Z, F', H'a, I'c, K'b, L'd, N', O'
204	☒	1	80	1 : M'
205	☒	2	80	1 : E
206	☰	2	80	1 : W

#	Sign	Count	Group	Sources in which sign is attested
207	𒃩	1	80	1 : A'
208	𒃪	1	80	1 : K
209	𒃨	11	81	6 : A, B, C, O, X, Z
210	𒃮	7	81	5 : H'a, H'b, I'c, K'b, L'a
211	𒃯	4	81	3 : Y, L'd, N'
212	𒃰	3	81	2 : K, Q
213	𒃲	5	81	2 : F', O'
214	𒃳	1	81	1 : A
215	𒃴	2	81	1 : A'
216	𒃵	2	81	1 : A'
217	𒃶	7	81	1 : W
218	𒃷	2	82	2 : F, H
219	𒃸	2	82	2 : K, L
220	𒃹	1	82	1 : Z
221	𒃺	1	82	1 : O'
222	𒃻	10	83	6 : F, H, Q, Y, Z, N'
223	𒃼	9	83	6 : A, D, N, H'a, I'b, O'
224	𒃽	1	83	1 : X
225	𒃾	1	83	1 : A'

#	Sign	Count	Group	Sources in which sign is attested
226		2	83	2 : W, B'r
227		1	84	1 : W
228		4	85	1 : W
229		14	86	10 : Y, Z, H'a, I'a, I'b, K'c, K'd, L'c, N', O'
230		3	86	1 : W
231		1	86	1 : Q
232		1	86	1 : R
233		1	86	1 : A'
234		11	87	9 : A, D, G, H, N, U, Y, F', O'
235		5	87	4 : A, C, E, Z
236		4	87	2 : W, A'
237		1	87	1 : B
238		2	88	1 : L
239		1	88	1 : A'
240		4	89	4 : Y, I'b, K'd, O'
241		23	90	19 : A, B, C, D, F, G, H, K, Rr, U, V, W, X, Y, B'r, G', H'a, N', O'
242		7	90	5 : G, Z, I'c, J', K'b
243		4	90	3 : B, I, Y
244		5	90	5 : E, P, W, Y, M'

#	Sign	Count	Group	Sources in which sign is attested
245	𠁪	1	90	1 : o'
246	𠁮	3	91	1 : K
247	𠁯	6	92	5 : B, C, I, W, A'
248	𠁰	4	92	4 : A, C, K, P'
249	𠁱	1	92	1 : E
250	𠁲	6	93	6 : A, E, P, W, X, A'
251	𠁳	3	93	2 : Z, H'b
252	𠁴	3	93	3 : F, I, M
253	𠁵	1	94	1 : z
254)	21	95	14 : A, C, E, F, G, H, I, J, K, M, Rr, A', D', H'a
255	(12	95	8 : B, U, W, X, Y, Z, C'r, N'
256)	3	95	2 : F', O'
257	~	2	95	1 : w
258	❖	5	96	1 : w
259	❖	3	96	1 : w
260	❖	2	96	1 : w
261	❖	18	97	8 : A, B, C, D, F, G, H, U
262	❖	6	97	1 : A'
263	❖	4	97	1 : z

#	Sign	Count	Group	Sources in which sign is attested
264	❖	2	97	2 : c, Q
265	❖	1	97	1 : s
266	❖	1	97	1 : D'
267	❖	1	98	1 : F'
268	❖	10	99	8 : A, B, I, L, N, Q, W, A'
269	❖	11	99	5 : X, Y, Z, M', N'
270	❖	14	99	5 : F, H, F', H'a, O'
271	❖	7	99	5 : G, I'b, K'c, K'd, L'c
272	❖	2	99	1 : A'
273	❖	1	99	1 : z
274	❖	2	100	2 : c, Q
275	❖	1	101	1 : C'r
276	❖	1	102	1 : D
277	❖	5	103	1 : w
278	❖	1	104	1 : D'
279	❖	2	105	1 : w
280	❖	2	106	1 : w
281	❖	1	107	1 : Y
282	❖	2	108	2 : Y, M'

#	Sign	Count	Group	Sources in which sign is attested
283		2	109	2 : G, H
284		1	109	1 : Z
285		1	110	1 : Z
286		1	—	1 : O
287		1	—	1 : N'
288		1	—	1 : Y
289		2	—	2 : K, M
290		1	—	1 : O
291		1	—	1 : Or
292		1	—	1 : O
293		1	—	1 : O
294		1	—	1 : O
295		1	—	1 : O
296		1	—	1 : O
297		1	—	1 : P'
298		1	—	1 : O
299		1	—	1 : O
300		1	—	1 : O
301		1	—	1 : O

#	Sign	Count	Group	Sources in which sign is attested
302	𠁠	1	—	1 : O
303	𠁡	1	—	1 : O
304	𠁢	1	—	1 : O
305	𠁣	1	—	1 : O
306	𠁤	1	—	1 : O
307	𠁥	1	—	1 : O
308	𠁦	1	—	1 : O
309	𠁧	6	—	1 : B'
310	𠁨	1	—	1 : M'
311	𠁩	1	—	1 : O
312	𠁪	1	—	1 : O
313	𠁫	1	—	1 : O
314	𠁬	1	—	1 : O
315	𠁭	1	—	1 : M
316	𠁮	1	—	1 : O
317	𠁯	1	—	1 : O
318	𠁰	1	—	1 : N
319	𠁱	1	—	1 : O
320	𠁲	1	—	1 : M

#	Sign	Count	Group	Sources in which sign is attested
321	❖	1	—	1 : O
322	❖	1	—	1 : Or
323	▣	6	—	2 : C', D'
324	□	37	—	3 : B', C', D'
325	▲	4	—	2 : C', D'
326	△	30	—	3 : B', C', D'
327	◎	5	—	2 : C', D'
328	○	39	—	3 : B', C', D'
329	⊖	2	—	1 : C'
330	∅	3	—	2 : B', C'
331	♾	2	—	1 : C'
332	∩	10	—	2 : B', D'
333	▤	3	—	1 : C'
334	☲	27	—	3 : B', C', D'
335	X	6	—	3 : Z, C', D'
336	◊	16	—	2 : C', D'
337	❖	3	—	1 : C'
338	❖	2	—	1 : B'
339	▣	2	—	1 : C'

#	Sign	Count	Group	Sources in which sign is attested
340	❖	2	—	1 : o
341	❖	1	—	1 : Or
342	❖	1	—	1 : o
343	❖	1	—	1 : o
344	❖	1	—	1 : M'
345	❖	1	—	1 : o'
346	❖	1	—	1 : o
347	❖	1	—	1 : o'
348	❖	1	—	1 : M'
349	❖	1	—	1 : N'
350	❖	1	—	1 : N'
351	❖	2	—	1 : o'
352	❖	1	—	1 : o'
353	❖	5	—	1 : o'
354	❖	1	—	1 : o'
355	❖	2	—	1 : o
356	↓	1	—	1 : M'
357	❖	1	—	1 : o

#	Sign	Count	Group	Sources in which sign is attested
358	❖	1	—	1 : o

9 Preliminary Unicode Repertoire

The preliminary Unicode repertoire for Linear Elamite consists of the 358 characters enumerated in the previous section. The characters have been assigned tentative names based on serial numbers. The order of the signs follows that given in the above inventory. Codepoints are based on a tentative allocation for the script in the Supplementary Multilingual Plane (SMP). Character names and code points are subject to change. A tentative names list and code chart follows p. 44.

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12 Character Data

Character Properties: UnicodeData.txt

```
1C380;LINEAR ELAMITE SIGN 1;Lo;0;L;;;;N;;;;;
1C381;LINEAR ELAMITE SIGN 2;Lo;0;L;;;;N;;;;;
1C382;LINEAR ELAMITE SIGN 3;Lo;0;L;;;;N;;;;;
1C383;LINEAR ELAMITE SIGN 4;Lo;0;L;;;;N;;;;;
1C384;LINEAR ELAMITE SIGN 5;Lo;0;L;;;;N;;;;;
1C385;LINEAR ELAMITE SIGN 6;Lo;0;L;;;;N;;;;;
1C386;LINEAR ELAMITE SIGN 7;Lo;0;L;;;;N;;;;;
1C387;LINEAR ELAMITE SIGN 8;Lo;0;L;;;;N;;;;;
1C388;LINEAR ELAMITE SIGN 9;Lo;0;L;;;;N;;;;;
1C389;LINEAR ELAMITE SIGN 10;Lo;0;L;;;;N;;;;;
1C38A;LINEAR ELAMITE SIGN 11;Lo;0;L;;;;N;;;;;
1C38B;LINEAR ELAMITE SIGN 12;Lo;0;L;;;;N;;;;;
1C38C;LINEAR ELAMITE SIGN 13;Lo;0;L;;;;N;;;;;
1C38D;LINEAR ELAMITE SIGN 14;Lo;0;L;;;;N;;;;;
1C38E;LINEAR ELAMITE SIGN 15;Lo;0;L;;;;N;;;;;
1C38F;LINEAR ELAMITE SIGN 16;Lo;0;L;;;;N;;;;;
1C390;LINEAR ELAMITE SIGN 17;Lo;0;L;;;;N;;;;;
1C391;LINEAR ELAMITE SIGN 18;Lo;0;L;;;;N;;;;;
1C392;LINEAR ELAMITE SIGN 19;Lo;0;L;;;;N;;;;;
1C393;LINEAR ELAMITE SIGN 20;Lo;0;L;;;;N;;;;;
1C394;LINEAR ELAMITE SIGN 21;Lo;0;L;;;;N;;;;;
1C395;LINEAR ELAMITE SIGN 22;Lo;0;L;;;;N;;;;;
1C396;LINEAR ELAMITE SIGN 23;Lo;0;L;;;;N;;;;;
1C397;LINEAR ELAMITE SIGN 24;Lo;0;L;;;;N;;;;;
1C398;LINEAR ELAMITE SIGN 25;Lo;0;L;;;;N;;;;;
1C399;LINEAR ELAMITE SIGN 26;Lo;0;L;;;;N;;;;;
1C39A;LINEAR ELAMITE SIGN 27;Lo;0;L;;;;N;;;;;
1C39B;LINEAR ELAMITE SIGN 28;Lo;0;L;;;;N;;;;;
1C39C;LINEAR ELAMITE SIGN 29;Lo;0;L;;;;N;;;;;
1C39D;LINEAR ELAMITE SIGN 30;Lo;0;L;;;;N;;;;;
1C39E;LINEAR ELAMITE SIGN 31;Lo;0;L;;;;N;;;;;
1C39F;LINEAR ELAMITE SIGN 32;Lo;0;L;;;;N;;;;;
1C3A0;LINEAR ELAMITE SIGN 33;Lo;0;L;;;;N;;;;;
1C3A1;LINEAR ELAMITE SIGN 34;Lo;0;L;;;;N;;;;;
1C3A2;LINEAR ELAMITE SIGN 35;Lo;0;L;;;;N;;;;;
1C3A3;LINEAR ELAMITE SIGN 36;Lo;0;L;;;;N;;;;;
1C3A4;LINEAR ELAMITE SIGN 37;Lo;0;L;;;;N;;;;;
1C3A5;LINEAR ELAMITE SIGN 38;Lo;0;L;;;;N;;;;;
1C3A6;LINEAR ELAMITE SIGN 39;Lo;0;L;;;;N;;;;;
1C3A7;LINEAR ELAMITE SIGN 40;Lo;0;L;;;;N;;;;;
1C3A8;LINEAR ELAMITE SIGN 41;Lo;0;L;;;;N;;;;;
1C3A9;LINEAR ELAMITE SIGN 42;Lo;0;L;;;;N;;;;;
1C3AA;LINEAR ELAMITE SIGN 43;Lo;0;L;;;;N;;;;;
1C3AB;LINEAR ELAMITE SIGN 44;Lo;0;L;;;;N;;;;;
1C3AC;LINEAR ELAMITE SIGN 45;Lo;0;L;;;;N;;;;;
```

1C3AD;LINEAR ELAMITE SIGN 46;Lo;0;L;;;;N;;;;
 1C3AE;LINEAR ELAMITE SIGN 47;Lo;0;L;;;;N;;;;
 1C3AF;LINEAR ELAMITE SIGN 48;Lo;0;L;;;;N;;;;
 1C3B0;LINEAR ELAMITE SIGN 49;Lo;0;L;;;;N;;;;
 1C3B1;LINEAR ELAMITE SIGN 50;Lo;0;L;;;;N;;;;
 1C3B2;LINEAR ELAMITE SIGN 51;Lo;0;L;;;;N;;;;
 1C3B3;LINEAR ELAMITE SIGN 52;Lo;0;L;;;;N;;;;
 1C3B4;LINEAR ELAMITE SIGN 53;Lo;0;L;;;;N;;;;
 1C3B5;LINEAR ELAMITE SIGN 54;Lo;0;L;;;;N;;;;
 1C3B6;LINEAR ELAMITE SIGN 55;Lo;0;L;;;;N;;;;
 1C3B7;LINEAR ELAMITE SIGN 56;Lo;0;L;;;;N;;;;
 1C3B8;LINEAR ELAMITE SIGN 57;Lo;0;L;;;;N;;;;
 1C3B9;LINEAR ELAMITE SIGN 58;Lo;0;L;;;;N;;;;
 1C3BA;LINEAR ELAMITE SIGN 59;Lo;0;L;;;;N;;;;
 1C3BB;LINEAR ELAMITE SIGN 60;Lo;0;L;;;;N;;;;
 1C3BC;LINEAR ELAMITE SIGN 61;Lo;0;L;;;;N;;;;
 1C3BD;LINEAR ELAMITE SIGN 62;Lo;0;L;;;;N;;;;
 1C3BE;LINEAR ELAMITE SIGN 63;Lo;0;L;;;;N;;;;
 1C3BF;LINEAR ELAMITE SIGN 64;Lo;0;L;;;;N;;;;
 1C3C0;LINEAR ELAMITE SIGN 65;Lo;0;L;;;;N;;;;
 1C3C1;LINEAR ELAMITE SIGN 66;Lo;0;L;;;;N;;;;
 1C3C2;LINEAR ELAMITE SIGN 67;Lo;0;L;;;;N;;;;
 1C3C3;LINEAR ELAMITE SIGN 68;Lo;0;L;;;;N;;;;
 1C3C4;LINEAR ELAMITE SIGN 69;Lo;0;L;;;;N;;;;
 1C3C5;LINEAR ELAMITE SIGN 70;Lo;0;L;;;;N;;;;
 1C3C6;LINEAR ELAMITE SIGN 71;Lo;0;L;;;;N;;;;
 1C3C7;LINEAR ELAMITE SIGN 72;Lo;0;L;;;;N;;;;
 1C3C8;LINEAR ELAMITE SIGN 73;Lo;0;L;;;;N;;;;
 1C3C9;LINEAR ELAMITE SIGN 74;Lo;0;L;;;;N;;;;
 1C3CA;LINEAR ELAMITE SIGN 75;Lo;0;L;;;;N;;;;
 1C3CB;LINEAR ELAMITE SIGN 76;Lo;0;L;;;;N;;;;
 1C3CC;LINEAR ELAMITE SIGN 77;Lo;0;L;;;;N;;;;
 1C3CD;LINEAR ELAMITE SIGN 78;Lo;0;L;;;;N;;;;
 1C3CE;LINEAR ELAMITE SIGN 79;Lo;0;L;;;;N;;;;
 1C3CF;LINEAR ELAMITE SIGN 80;Lo;0;L;;;;N;;;;
 1C3D0;LINEAR ELAMITE SIGN 81;Lo;0;L;;;;N;;;;
 1C3D1;LINEAR ELAMITE SIGN 82;Lo;0;L;;;;N;;;;
 1C3D2;LINEAR ELAMITE SIGN 83;Lo;0;L;;;;N;;;;
 1C3D3;LINEAR ELAMITE SIGN 84;Lo;0;L;;;;N;;;;
 1C3D4;LINEAR ELAMITE SIGN 85;Lo;0;L;;;;N;;;;
 1C3D5;LINEAR ELAMITE SIGN 86;Lo;0;L;;;;N;;;;
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 1C46B;LINEAR ELAMITE SIGN 236;Lo;0;L;;;;N;;;;
 1C46C;LINEAR ELAMITE SIGN 237;Lo;0;L;;;;N;;;;
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 1C47D;LINEAR ELAMITE SIGN 254;Lo;0;L;;;;N;;;;
 1C47E;LINEAR ELAMITE SIGN 255;Lo;0;L;;;;N;;;;
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 1C48C;LINEAR ELAMITE SIGN 269;Lo;0;L;;;;N;;;;
 1C48D;LINEAR ELAMITE SIGN 270;Lo;0;L;;;;N;;;;
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1C4E5;LINEAR ELAMITE SIGN 358;Lo;0;L;;;;N;;;;

1C380

Linear Elamite

1C43F

	1C38	1C39	1C3A	1C3B	1C3C	1C3D	1C3E	1C3F	1C40	1C41	1C42	1C43
0	 1C380		⊕ 1C3A0			◇ 1C3D0	◇ 1C3E0	◇ 1C3F0				
1	 1C381		☒ 1C3A1							▽ 1C411		
2	 1C382		⋮ 1C3A2							⊓ 1C412		
3	 1C383		⋮⋮ 1C3A3							⊓⊓ 1C413		
4	 1C384		⋮⋮⋮ 1C3A4									
5	⋮ 1C385		#+#+ 1C3A5									
6	⋮ 1C386		⋮⋮ 1C3A6									
7	⋮ 1C387		# 1C3A7									
8	⋮ 1C388		#+#+ 1C3A8									
9	 1C389		⋮⋮ 1C3A9									
A	 1C38A		⋮⋮⋮⋮ 1C3AA									
B			#+#+#+#+ 1C3AB									
C			⊕ 1C3AC									
D			⊕ 1C3AD									
E			⊕ 1C3AE									
F		+										

1C440

Linear Elamite

1C4FF

	1C44	1C45	1C46	1C47	1C48	1C49	1C4A	1C4B	1C4C	1C4D	1C4E	1C4F
0												
1												
2												
3												
4												
5												
6												
7												
8												
9												
A												
B												
C												
D												
E												
F												

Attested Signs

1C380		LINEAR ELAMITE SIGN 1
1C381		LINEAR ELAMITE SIGN 2
1C382		LINEAR ELAMITE SIGN 3
1C383		LINEAR ELAMITE SIGN 4
1C384		LINEAR ELAMITE SIGN 5
1C385		LINEAR ELAMITE SIGN 6
1C386		LINEAR ELAMITE SIGN 7
1C387	†	LINEAR ELAMITE SIGN 8
1C388	‡	LINEAR ELAMITE SIGN 9
1C389		LINEAR ELAMITE SIGN 10
1C38A		LINEAR ELAMITE SIGN 11
1C38B		LINEAR ELAMITE SIGN 12
1C38C		LINEAR ELAMITE SIGN 13
1C38D		LINEAR ELAMITE SIGN 14
1C38E		LINEAR ELAMITE SIGN 15
1C38F		LINEAR ELAMITE SIGN 16
1C390		LINEAR ELAMITE SIGN 17
1C391		LINEAR ELAMITE SIGN 18
1C392		LINEAR ELAMITE SIGN 19
1C393		LINEAR ELAMITE SIGN 20
1C394	¤	LINEAR ELAMITE SIGN 21
1C395	¤	LINEAR ELAMITE SIGN 22
1C396	¤	LINEAR ELAMITE SIGN 23
1C397	¤	LINEAR ELAMITE SIGN 24
1C398	¤	LINEAR ELAMITE SIGN 25
1C399	¤	LINEAR ELAMITE SIGN 26
1C39A	¤	LINEAR ELAMITE SIGN 27
1C39B	¤	LINEAR ELAMITE SIGN 28
1C39C	+	LINEAR ELAMITE SIGN 29
1C39D	+	LINEAR ELAMITE SIGN 30
1C39E	+	LINEAR ELAMITE SIGN 31
1C39F	+	LINEAR ELAMITE SIGN 32
1C3A0	+	LINEAR ELAMITE SIGN 33
1C3A1	☒	LINEAR ELAMITE SIGN 34
1C3A2	::	LINEAR ELAMITE SIGN 35
1C3A3	#	LINEAR ELAMITE SIGN 36
1C3A4	※	LINEAR ELAMITE SIGN 37
1C3A5	#	LINEAR ELAMITE SIGN 38
1C3A6	※	LINEAR ELAMITE SIGN 39
1C3A7	#	LINEAR ELAMITE SIGN 40
1C3A8	#	LINEAR ELAMITE SIGN 41
1C3A9	※	LINEAR ELAMITE SIGN 42
1C3AA	※	LINEAR ELAMITE SIGN 43
1C3AB	#	LINEAR ELAMITE SIGN 44
1C3AC	#	LINEAR ELAMITE SIGN 45
1C3AD	×	LINEAR ELAMITE SIGN 46
1C3AE	†	LINEAR ELAMITE SIGN 47
1C3AF	¤	LINEAR ELAMITE SIGN 48
1C3B0	¤	LINEAR ELAMITE SIGN 49
1C3B1	¤	LINEAR ELAMITE SIGN 50
1C3B2	¤	LINEAR ELAMITE SIGN 51
1C3B3	¤	LINEAR ELAMITE SIGN 52
1C3B4	¤	LINEAR ELAMITE SIGN 53
1C3B5	¤	LINEAR ELAMITE SIGN 54
1C3B6	¤	LINEAR ELAMITE SIGN 55
1C3B7	¤	LINEAR ELAMITE SIGN 56
1C3B8	¤	LINEAR ELAMITE SIGN 57
1C3B9	¤	LINEAR ELAMITE SIGN 58
1C3BA	¤	LINEAR ELAMITE SIGN 59
1C3BB	¤	LINEAR ELAMITE SIGN 60
1C3BC	◊	LINEAR ELAMITE SIGN 61
1C3BD	◊	LINEAR ELAMITE SIGN 62
1C3BE	◊	LINEAR ELAMITE SIGN 63
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 1C48D ⌻ LINEAR ELAMITE SIGN 270

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1C48F	☲	LINEAR ELAMITE SIGN 272
1C490	☱	LINEAR ELAMITE SIGN 273
1C491	☲	LINEAR ELAMITE SIGN 274
1C492	☱	LINEAR ELAMITE SIGN 275
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1C494	☱	LINEAR ELAMITE SIGN 277
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1C496	☱	LINEAR ELAMITE SIGN 279
1C497	☲	LINEAR ELAMITE SIGN 280
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1C499	☲	LINEAR ELAMITE SIGN 282
1C49A	☱☱	LINEAR ELAMITE SIGN 283
1C49B	☲☲	LINEAR ELAMITE SIGN 284
1C49C	☱☱	LINEAR ELAMITE SIGN 285
1C49D	☲☲	LINEAR ELAMITE SIGN 286
1C49E	☱	LINEAR ELAMITE SIGN 287
1C49F	☲	LINEAR ELAMITE SIGN 288
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1C4A2	☲	LINEAR ELAMITE SIGN 291
1C4A3	☱	LINEAR ELAMITE SIGN 292
1C4A4	◆	LINEAR ELAMITE SIGN 293
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1C4A6	☱	LINEAR ELAMITE SIGN 295
1C4A7	☲	LINEAR ELAMITE SIGN 296
1C4A8	☱	LINEAR ELAMITE SIGN 297
1C4A9	☲	LINEAR ELAMITE SIGN 298
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1C4AD	☱	LINEAR ELAMITE SIGN 302
1C4AE	☲	LINEAR ELAMITE SIGN 303
1C4AF	☱	LINEAR ELAMITE SIGN 304
1C4B0	☲	LINEAR ELAMITE SIGN 305
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1C4BB	☱	LINEAR ELAMITE SIGN 316
1C4BC	☲	LINEAR ELAMITE SIGN 317
1C4BD	☱	LINEAR ELAMITE SIGN 318
1C4BE	☲	LINEAR ELAMITE SIGN 319
1C4BF	☱	LINEAR ELAMITE SIGN 320
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1C4CB	☱	LINEAR ELAMITE SIGN 332
1C4CC	☲	LINEAR ELAMITE SIGN 333
1C4CD	☱	LINEAR ELAMITE SIGN 334
1C4CE	☱	LINEAR ELAMITE SIGN 335
1C4CF	☲	LINEAR ELAMITE SIGN 336
1C4D0	☱	LINEAR ELAMITE SIGN 337
1C4D1	☲	LINEAR ELAMITE SIGN 338

Linear Elamite

1C4E5

1C4D2	☱	LINEAR ELAMITE SIGN 339
1C4D3	☲	LINEAR ELAMITE SIGN 340
1C4D4	☱	LINEAR ELAMITE SIGN 341
1C4D5	☲	LINEAR ELAMITE SIGN 342
1C4D6	☱	LINEAR ELAMITE SIGN 343
1C4D7	☲	LINEAR ELAMITE SIGN 344
1C4D8	☱	LINEAR ELAMITE SIGN 345
1C4D9	☲	LINEAR ELAMITE SIGN 346
1C4DA	☱	LINEAR ELAMITE SIGN 347
1C4DB	☲	LINEAR ELAMITE SIGN 348
1C4DC	☱	LINEAR ELAMITE SIGN 349
1C4DD	☲	LINEAR ELAMITE SIGN 350
1C4DE	☱	LINEAR ELAMITE SIGN 351
1C4DF	☲	LINEAR ELAMITE SIGN 352
1C4E0	☱	LINEAR ELAMITE SIGN 353
1C4E1	☲	LINEAR ELAMITE SIGN 354
1C4E2	☱	LINEAR ELAMITE SIGN 355
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1C4E4	☲	LINEAR ELAMITE SIGN 357
1C4E5	☱	LINEAR ELAMITE SIGN 358