

Universal Multiple-Octet Coded Character Set
International Organization for Standardization
Organisation internationale de normalisation
Международная организация по стандартизации

Doc Type: Working Group Document
Title: Revised proposal to encode the Cuneiform script in the SMP of the UCS
Source: Michael Everson, Karljürgen Feuerherm, Steve Tinney
Status: Individual Contribution
Date: 2004-01-29

A. Administrative

1. Title

Revised proposal to encode the Cuneiform script in the SMP of the UCS.

2. Requester's name

Michael Everson, Karljürgen Feuerherm, Steve Tinney

3. Requester type (Member body/Liaison/Individual contribution)

Individual contribution.

4. Submission date

2004-01-29

5. Requester's reference (if applicable)

N2297, N2585, N2664R

6. Choose one of the following:

6a. This is a complete proposal

Yes.

6b. More information will be provided later

No.

B. Technical -- General

1. Choose one of the following:

1a. This proposal is for a new script (set of characters)

Yes.

Proposed name of script

Cuneiform and Cuneiform Numbers.

1b. The proposal is for addition of character(s) to an existing block

No.

1b. Name of the existing block

2. Number of characters in proposal

985.

3. Proposed category (see section II, Character Categories)

Category B.

4a. Proposed Level of Implementation (1, 2 or 3) (see clause 14, ISO/IEC 10646-1: 2000)

Level 1.

4b. Is a rationale provided for the choice?

Yes.

4c. If YES, reference

Characters are ordinary spacing characters.

5a. Is a repertoire including character names provided?

Yes.

5b. If YES, are the names in accordance with the character naming guidelines in Annex L of ISO/IEC 10646-1: 2000?

Yes.

5c. Are the character shapes attached in a legible form suitable for review?

Yes.

6a. Who will provide the appropriate computerized font (ordered preference: True Type, or PostScript format) for publishing the standard?

Steve Tinney and Michael Everson. TrueType.

6b. If available now, identify source(s) for the font and indicate the tools used:

Steve Tinney and Michael Everson. Fontographer & FontLab.

7a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?

Yes (see below).

7b. Are published examples of use (such as samples from newspapers, magazines, or other sources) of proposed characters attached?

Yes.

8. Does the proposal address other aspects of character data processing (if applicable) such as input, presentation, sorting, searching, indexing, transliteration etc. (if yes please enclose information)?

Yes.

9. Submitters are invited to provide any additional information about Properties of the proposed Character(s) or Script that will assist in correct understanding of and correct linguistic processing of the proposed character(s) or script. Examples of such properties are: Casing information, Numeric information, Currency information, Display behaviour information such as line breaks, widths etc., Combining behaviour, Spacing behaviour, Directional behaviour, Default Collation behaviour, relevance in Mark Up contexts, Compatibility equivalence and other Unicode normalization related information. See the Unicode standard at <http://www.unicode.org> for such information on other scripts. Also see Unicode Character Database <http://www.unicode.org/Public/UNIDATA/UnicodeCharacterDatabase.html> and associated Unicode Technical Reports for information needed for consideration by the Unicode Technical Committee for inclusion in the Unicode Standard.

UUUUU;CUNEIFORM CHAR NAME;Lo;0;L; ; ; ; ;N; ; ; ; ;

They are all "Letter other" category, strong left to right. Their line-breaking properties are much like CJK ideographic characters.

C. Technical -- Justification

1. Has this proposal for addition of character(s) been submitted before? If YES, explain.

No.

2a. Has contact been made to members of the user community (for example: National Body, user groups of the script or characters, other experts, etc.)?

Yes.

2b. If YES, with whom?

Deborah Anderson, Lloyd Anderson, Miguel Civil, Jerrold Cooper, Patrick Durusau, Karljürgen Feuerherm, Madeleine Fitzgerald, Eckart Frahm, Charles E. Jones, Cale Johnson, David Owen, Simo Parpola, Dean Snyder, Matt Stolper, Steve Tinney, and Petr Vavroušek. This proposal has been aided in part by funds made available to participants by Johns Hopkins University through the Initiative for Cuneiform Encoding, by the National Science Foundation through the Digital Hammurabi Project, by the Society of Biblical Literature, and by the Script Encoding Initiative, University of California Berkeley.

2c. If YES, available relevant documents

N/A

3. Information on the user community for the proposed characters (for example: size, demographics, information technology use, or publishing use) is included?

Scholars.

4a. The context of use for the proposed characters (type of use; common or rare)

Rare.

4b. Reference

See below.

5a. Are the proposed characters in current use by the user community?

Yes.

5b. If YES, where?

In scholarly publications, primarily in the field of Assyriology, but also elsewhere.

6a. After giving due considerations to the principles in Principles and Procedures document (a WG 2 standing document) must the proposed characters be entirely in the BMP?

No.

6b. If YES, is a rationale provided?

6c. If YES, reference

7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?

Yes.

8a. Can any of the proposed characters be considered a presentation form of an existing character or character sequence?

No.

8b. If YES, is a rationale for its inclusion provided?

8c. If YES, reference

9a. Can any of the proposed characters be encoded using a composed character sequence of either existing characters or other proposed characters?

No.

9b. If YES, is a rationale for its inclusion provided?

9c. If YES, reference

10a. Can any of the proposed character(s) be considered to be similar (in appearance or function) to an existing character?

No.

10b. If YES, is a rationale for its inclusion provided?

10c. If YES, reference

11a. Does the proposal include use of combining characters and/or use of composite sequences (see clauses 4.12 and 4.14 in ISO/IEC 10646-1: 2000)?

No.

11b. If YES, is a rationale for such use provided?

11c. If YES, reference

12a. Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided?

No.

12b. If YES, reference

13a. Does the proposal contain characters with any special properties such as control function or similar semantics?

No.

13b. If YES, describe in detail (include attachment if necessary)

14a. Does the proposal contain any Ideographic compatibility character(s)?

No.

14b. If YES, is the equivalent corresponding unified ideographic character(s) identified?

14c. If YES, reference

D. Proposal

1 Introduction and early history

The earliest stage of Mesopotamian Cuneiform, as a complete system of writing, is first attested in Uruk during the so-called Uruk IV period (ca. 3500–3200 BCE) with an initial repertoire of about 700 characters or “signs” as cuneiform scholars customarily call them.

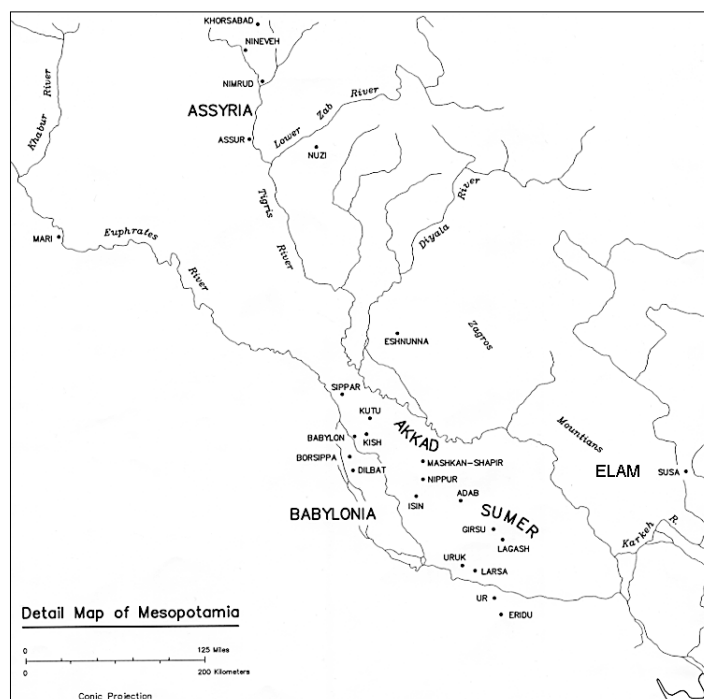





























Figure 1: Map of Mesopotamia

Writing emerged in Sumer simultaneously with a sudden growth in urbanization and an attendant increase in the scope and scale of administrative needs. A large proportion of the elements of the early writing system repertoire was devised to represent quantities and commodities for bureaucratic purposes.

At this earliest stage, signs were mainly pictographic, in that a relatively faithful facsimile of the thing signified was traced, though some items were strictly ideographic in that they were represented by completely arbitrary abstractions, such as the symbol for sheep: ⊕. Some scholars believe that the abstract symbols were derived from an earlier “token” system of accounting, but there is no general agreement on this point.

Where the pictographs are concerned, interpretation was relatively straightforward. The head of a bull was used to denote ‘cattle’; an ear of barley was used to denote ‘barley’. In some cases, pictographs were also interpreted logographically; meaning was derived from the symbol by close conceptual association. For example, the representation of a bowl might mean ‘bowl’, but it could just as well indicate concepts associated with bowls, such as ‘food’. Renditions of a leg might variously suggest ‘leg’, ‘stand’, or ‘walk.’ By the next chronological period of south Mesopotamian history (the Uruk III period, 3200–2900 BCE), logographic usage seems to have become much more widespread. In addition, individual signs were combined into more complex designs to express other concepts: for example, a head with a bowl next to it was used to denote ‘eat’ or ‘drink’. This is the point during script development at which one can truly speak of the first Sumerian texts. In due course, the early graphs underwent change, conditioned by several factors: the most widely available writing medium, the most widely available writing tools, and the need to record information more quickly and more efficiently from the standpoint of the bureaucracy for whose use the system was invented in the first place.

The obvious writing medium in Sumer was clay, since it was widely available and easily moulded into suitable shapes (cushion or pillow-shaped ‘tablets’), and writing utensils were easily made for it by sharpening pieces of reed. Since inscribing curvilinear lines in a piece of clay with a sharpened reed (called a “stylus”) was awkward and slow, the tendency on the part of scribes was to approximate the pictographs by means of short, wedge-shaped impressions made with the edge of the stylus. It is these short, mainly straight shapes which have given rise to the modern word “cuneiform” (from the Latin *cuneus*, meaning ‘wedge’). Cuneiform proper was common from about 2700 BCE (see Figure 2) though it should be noted that the term “cuneiform” is understood by experts in the script to include the earlier forms as well.

| | | | | | | | | | |
|---|---|---|---|---|---|---|--|---|---|
| PICTOGRAPHIC SIGN c. 3100 BC |  |  |  |  |  |  |  |  |  |
| INTERPRETATION | star | ?sun over horizon | ?stream | ear of barley | bull's head | bowl | head + bowl | lower leg | ?shrouded body |
| CUNEIFORM SIGN c. 2400 BC |  |  |  |  |  |  |  |  |  |
| CUNEIFORM SIGN c. 700 BC (turned through 90°) |  |  |  |  |  |  |  |  |  |
| PHONETIC VALUE* | dingir, an | u ₄ , ud | a | še | gu ₄ | nig ₂ , ninda | ku ₂ | du, gin, gub | lu ₂ |
| MEANING | god, sky | day, sun | water, seed, son | barley | ox | food, bread | to eat | to walk, to stand | man |

* Some signs have more than one phonetic value and some sounds are represented by more than one sign. U₄ means the fourth sign with the phonetic value u.

Figure 2: Evolution of Cuneiform from early pictographs

Naturally, as there is an infinite number of ways to approximate a curve by means of short line segments, there were many different approximations to the original round shapes. This is particularly evident in the early script, but even in the latest periods of use of Cuneiform, one can almost never think of a single “canonical” form of any given sign. At best, one can speak of prominent patterns in a given place at a given time.

As can be seen in Figure 2, the orientation of signs shifted at some point in time, mainly due to the evolution of tablet shapes and the manner in which they were held by the scribes. It is difficult to specify this time exactly, but most scholars are inclined to believe that it took place during the so-called Early Dynastic Period (2900–2335 BCE).

It should be noted that the discussion given here has concentrated on the local Mesopotamian contribution to the development of the system. It is of course true that late fourth millennium ideographic tablets were found in other places than Uruk, notably at Susa and several other west Iranian sites, at Nineveh and Tell Brak in Assyria, and even at Habuba Kabira in Syria. The writing system developed in Sumer was repeatedly exported to peripheral regions in the third, second and first millennia BCE. Though local variations in usage are attested, it is valid to discuss script evolution in terms of the core Sumero-Akkadian writing system.

1.1 Overview of the spread of Cuneiform usage

The Sumerians did not live in complete isolation, and from a very early period there is evidence for the presence of another significant linguistic group in the area immediately north of Sumer known as Agade or Akkad (see Figure 1). Those peoples spoke a Semitic language all of whose dialects are subsumed by scholars under the heading “Akkadian”. In the long run, it was the Akkadian speakers who became the primary users and promulgators of Cuneiform script. Because of their trade involvement with their neighbours, Cuneiform spread through Babylonia (the umbrella term for “Sumer and Akkad”) to Elam, Assyria, eastern Syria, southern Anatolia, and even Egypt. Ultimately, many languages came to be written in Cuneiform script, the most notable being:

- Sumerian
- Akkadian (including Babylonian, Assyrian, Eblaite)
- Elamite
- Hittite
- Hurrian

For the practical purposes of encoding, it is helpful to define time-space categories of script usage according to geography and primary linguistic representation as shown in Figure 3 below.

2 Legacy encodings and the the use of this encoding

Unlike many other scripts, there is for all intents and purposes no “standard” legacy encoding of Cuneiform to take into account. There are a few reasons for this: primarily the fact that the encoding of 600+ items was not possible in the pre-Unicode world of 8-bit fonts, other than by overloading codepoints which could only be differentiated on a mark-up level (such as font-switching); and such mark-up was never implemented in any consistent fashion leading to an accepted standard.

In addition, much of the scholarly work takes place on the level of deciphering and redrafting signs found in autographs (in other words, in engaging in hand-writing analysis). Cuneiform signs are almost all multivalent, and the transmission of document content is in general most useful only when sign identification is packaged alongside sign interpretation. Since the “solution” offered by “font

| | | |
|---------------------------------------|---------------------------------|-----------------------|
| Archaic Period (to 2901) | | |
| Early Dynastic (2900–2335) | | |
| Old Akkadian (2334–2154) | | |
| Ur III (or NeoSumerian; 2112–2095) | | Elamite (2100–360) |
| Old Assyrian (1900–1750) | Old Babylonian (2004–1595) | |
| Middle Assyrian (1500-1000) | Middle Babylonian (1595–627) | |
| Neo-Assyrian (1000-609) | | |
| | Neo-Babylonian (626–539) | |
| Hittite (1570-1220) | | |

Figure 3: Cuneiform script usage

mark-up encodings” was not able to accommodate this need, pre-Unicode encodings of Cuneiform found little support in the user community and consequently never emerged as any kind of standard. There do exist some fonts which had a measure of commercial success (such as it was); Michael Everson supplied an analysis of one of these in N2297.

3 General principles of encoding

The following represents a résumé of the principles which have found consensus since the beginning of the encoding venture, and which have been or are expected to be applied to the provisional character list. It may be helpful to note here that Cuneiform “signs” and Cuneiform “characters” do not correspond in one-to-one relationship. It is clear that many signs could be treated as “molecular” rather than “atomic” in nature, though it is not yet altogether clear, in certain cases, which treatment should be applied. It was recognized that these principles are general rather than absolute, and that following their general application, signs/characters have been reviewed on a case by case basis.

3.1 Chronology

It was agreed that in the interests of breaking up the task into manageable chunks, encoding will be done by stages, and that the first stage encoding will *not* include Archaic Cuneiform, but will take into account factors arising from the earliest stages of cuneiform to the extent that these are already known and understood; that is, no special effort has been made to go farther back than Ur III. It is felt that this will afford the necessary practical expediency while minimizing the risk of having to deprecate first stage characters at a later date. Thus, the task of encoding the complete Cuneiform repertoire is likely to unfold as follows:

- Stage One: Ur III through late periods, and including all major contemporaneous script users;
- Stage Two: Old Akkadian and Early Dynastic and any remaining minor script users;
- Stage Three: Archaic Cuneiform.

Archaic may require an entire separate block.

3.2 Base character inventory

The base character inventory has been distilled from the list of Ur III signs compiled by the Cuneiform Digital Library Initiative (UCLA) in union with the list constructed independently by Miguel Civil. The resultant base list is intended to be comprehensive from Ur III onwards including the most recently published results of an ongoing major scholarly reappraisal of the earlier Fara script (see Manfred Krebernik, *Orbis Biblicus et Orientalis* vol. 160/1). It is felt that comprehensiveness at the level of Old Akkadian and earlier periods is not appropriate given the current state of palaeographic research.

3.3 Mergers and splits

Mergers and splits have been discussed and the decision was made that such occurrences must be encoded at the point of maximum differentiation, even when this results in the duplication of glyphs as represented in fonts appropriate for some periods.

3.4 Complex and compound signs

For the sake of ensuring ease of communication, the terms “complex” and “compound” in relation to Cuneiform signs have been defined as follows:

Complex signs: signs made up of a primary sign with one or more secondary signs written within it or otherwise conjoined to it, such that the whole is generally treated by scholars as a unit; this includes linear sequences of two or more signs or wedge-clusters where one or more of said clusters have not been clearly identified as characters in their own right.

Compound signs: linear sequences of two or more signs or wedge-clusters generally treated by scholars as a single unit, when each and every such wedge-cluster exists as a clearly identified character in its own right.

In light of these definitions, the following principles have been ratified:

- Complex signs, which present a relative visual unity, are assigned single individual code points irrespective of their components.
- Compound signs are encoded as sequences of their component characters.

In general, signs which shift from compound to complex or vice versa have been treated according to their Ur III manifestation.

3.5 Glyph variants acquiring independent semantic status

Glyph variants such as TA*, a Middle Assyrian form of the sign TA which in Neo-Assyrian usage has its own logographic interpretation, have been assigned their own code positions, to be used only when the new interpretation applies.

3.6 Punctuation marks. The small number of signs occasionally used in cuneiform to indicate word division, repetition or phrase separation have been assigned code positions.

3.7 Special case: Numerals

In general, numerals have been encoded separately from signs which are visually identical but semantically different (e.g. ONE BAN2, TWO BAN2, etc. vs. MASH, PA, etc.). The distinction between

curved numerals and their cuneiform descendants is treated as glyphic for the purposes of the present proposal; this issue will need to be revisited in subsequent encoding phases.

3.8 Mark-up/formatting. Case ruling and the like is considered formatting and is not to be treated as punctuation and hence is irrelevant to the encoding.

3.9 Character order

Various alternatives have been suggested including using the traditional numbering, which itself derives from a formal ordering by first millennium character shapes; devising an ordering based on form which is better matched to the third millennium glyphs which appear in the character tables; or simply ordering the characters alphabetically according to their transliteration. A variant of the latter alternative has been chosen in this document: it is alphabetical by primary sign name with complex signs based on the primary sign organized according to graphic principles; in some cases, these correspond to the native analyses.

Row 120: CUNEIFORM

| | 1200 | 1201 | 1202 | 1203 | 1204 | 1205 | 1206 | 1207 |
|---|------|------|------|------|------|------|------|------|
| 0 | | | | | | | | |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |

G = 00
P = 01

Row 120: CUNEIFORM

| hex | Name |
|-------|--|
| 12000 | CUNEIFORM SIGN A |
| 12001 | CUNEIFORM SIGN A TIMES A |
| 12002 | CUNEIFORM SIGN A TIMES BAD |
| 12003 | CUNEIFORM SIGN A TIMES GAN2 TENU |
| 12004 | CUNEIFORM SIGN A TIMES HA |
| 12005 | CUNEIFORM SIGN A TIMES IGI |
| 12006 | CUNEIFORM SIGN A TIMES LAGAR GUNU |
| 12007 | CUNEIFORM SIGN A TIMES MUSH |
| 12008 | CUNEIFORM SIGN A TIMES SAG |
| 12009 | CUNEIFORM SIGN A2 |
| 1200A | CUNEIFORM SIGN AB |
| 1200B | CUNEIFORM SIGN AB TIMES ASH2 |
| 1200C | CUNEIFORM SIGN AB TIMES DUN3 GUNU |
| 1200D | CUNEIFORM SIGN AB TIMES GAL |
| 1200E | CUNEIFORM SIGN AB TIMES GAN2 TENU |
| 1200F | CUNEIFORM SIGN AB TIMES HA |
| 12010 | CUNEIFORM SIGN AB TIMES IGI GUNU |
| 12011 | CUNEIFORM SIGN AB TIMES IMIN |
| 12012 | CUNEIFORM SIGN AB TIMES LAGAB |
| 12013 | CUNEIFORM SIGN AB TIMES SHESH |
| 12014 | CUNEIFORM SIGN AB TIMES U PLUS U PLUS U |
| 12015 | CUNEIFORM SIGN AB GUNU |
| 12016 | CUNEIFORM SIGN AB2 |
| 12017 | CUNEIFORM SIGN AB2 TIMES BALAG |
| 12018 | CUNEIFORM SIGN AB2 TIMES GAN2 TENU |
| 12019 | CUNEIFORM SIGN AB2 TIMES ME PLUS EN |
| 1201A | CUNEIFORM SIGN AB2 TIMES SHA3 |
| 1201B | CUNEIFORM SIGN AB2 TIMES TAK4 |
| 1201C | CUNEIFORM SIGN AD |
| 1201D | CUNEIFORM SIGN AK |
| 1201E | CUNEIFORM SIGN AK TIMES ERIN2 |
| 1201F | CUNEIFORM SIGN AK TIMES SAL PLUS GISH |
| 12020 | CUNEIFORM SIGN AK TIMES SHITA PLUS GISH |
| 12021 | CUNEIFORM SIGN AL |
| 12022 | CUNEIFORM SIGN AL TIMES DIM2 |
| 12023 | CUNEIFORM SIGN AL TIMES GISH |
| 12024 | CUNEIFORM SIGN AL TIMES HA |
| 12025 | CUNEIFORM SIGN AL TIMES KAD3 |
| 12026 | CUNEIFORM SIGN AL TIMES KI |
| 12027 | CUNEIFORM SIGN AL TIMES SHE |
| 12028 | CUNEIFORM SIGN AL TIMES USH |
| 12029 | CUNEIFORM SIGN AL CROSSING AL |
| 1202A | CUNEIFORM SIGN ALAN |
| 1202B | CUNEIFORM SIGN ALEPH |
| 1202C | CUNEIFORM SIGN AMAR |
| 1202D | CUNEIFORM SIGN AMAR TIMES SHE |
| 1202E | CUNEIFORM SIGN AN |
| 1202F | CUNEIFORM SIGN AN PLUS NAGA SQUARED |
| 12030 | CUNEIFORM SIGN AN OVER AN |
| 12031 | CUNEIFORM SIGN AN OPPOSING AN |
| 12032 | CUNEIFORM SIGN AN THREE TIMES |
| 12033 | CUNEIFORM SIGN ANSHE |
| 12034 | CUNEIFORM SIGN APIN |
| 12035 | CUNEIFORM SIGN ARAD |
| 12036 | CUNEIFORM SIGN ARAD TIMES KUR |
| 12037 | CUNEIFORM SIGN ARKAB |
| 12038 | CUNEIFORM SIGN ASAL2 |
| 12039 | CUNEIFORM SIGN ASH |
| 1203A | CUNEIFORM SIGN ASH ZIDA TENU |
| 1203B | CUNEIFORM SIGN ASH KABA TENU |
| 1203C | CUNEIFORM SIGN ASH KABA TENU CROSSING ASH KABA TENU |
| 1203D | CUNEIFORM SIGN ASH OVER ASH TUG2 OVER TUG2 TUG2 OVER TUG2 PAP |
| 1203E | CUNEIFORM SIGN ASH OVER ASH OVER ASH |
| 1203F | CUNEIFORM SIGN ASH OVER ASH OVER ASH CROSSING ASH OVER ASH OVER ASH |
| 12040 | CUNEIFORM SIGN ASH2 |
| 12041 | CUNEIFORM SIGN ASHGAB |
| 12042 | CUNEIFORM SIGN BA |
| 12043 | CUNEIFORM SIGN BAD |
| 12044 | CUNEIFORM SIGN BAHAR2 |
| 12045 | CUNEIFORM SIGN BAL |
| 12046 | CUNEIFORM SIGN BAL OVER BAL |
| 12047 | CUNEIFORM SIGN BALAG |
| 12048 | CUNEIFORM SIGN BAR |
| 12049 | CUNEIFORM SIGN BARA2 |
| 1204A | CUNEIFORM SIGN BI |
| 1204B | CUNEIFORM SIGN BI TIMES A |
| 1204C | CUNEIFORM SIGN BI TIMES GAR |
| 1204D | CUNEIFORM SIGN BI TIMES IGI GUNU |
| 1204E | CUNEIFORM SIGN BU |
| 1204F | CUNEIFORM SIGN BU OVER BU AB |
| 12050 | CUNEIFORM SIGN BU OVER BU UN |
| 12051 | CUNEIFORM SIGN BU CROSSING BU |
| 12052 | CUNEIFORM SIGN BU GUNU |
| 12053 | CUNEIFORM SIGN BULUG |
| 12054 | CUNEIFORM SIGN BULUG OVER BULUG |
| 12055 | CUNEIFORM SIGN BUR |

| hex | Name |
|-------|---|
| 12056 | CUNEIFORM SIGN BUR2 |
| 12057 | CUNEIFORM SIGN DA |
| 12058 | CUNEIFORM SIGN DAG |
| 12059 | CUNEIFORM SIGN DAG KISIM5 TIMES A PLUS MASH |
| 1205A | CUNEIFORM SIGN DAG KISIM5 TIMES AMAR |
| 1205B | CUNEIFORM SIGN DAG KISIM5 TIMES BALAG |
| 1205C | CUNEIFORM SIGN DAG KISIM5 TIMES BI |
| 1205D | CUNEIFORM SIGN DAG KISIM5 TIMES GA |
| 1205E | CUNEIFORM SIGN DAG KISIM5 TIMES GA PLUS MASH |
| 1205F | CUNEIFORM SIGN DAG KISIM5 TIMES GI |
| 12060 | CUNEIFORM SIGN DAG KISIM5 TIMES GIR2 |
| 12061 | CUNEIFORM SIGN DAG KISIM5 TIMES GUD |
| 12062 | CUNEIFORM SIGN DAG KISIM5 TIMES HA |
| 12063 | CUNEIFORM SIGN DAG KISIM5 TIMES IR |
| 12064 | CUNEIFORM SIGN DAG KISIM5 TIMES IR PLUS LU |
| 12065 | CUNEIFORM SIGN DAG KISIM5 TIMES KAK |
| 12066 | CUNEIFORM SIGN DAG KISIM5 TIMES LA |
| 12067 | CUNEIFORM SIGN DAG KISIM5 TIMES LU |
| 12068 | CUNEIFORM SIGN DAG KISIM5 TIMES LU PLUS MASH2 |
| 12069 | CUNEIFORM SIGN DAG KISIM5 TIMES LUM |
| 1206A | CUNEIFORM SIGN DAG KISIM5 TIMES NE |
| 1206B | CUNEIFORM SIGN DAG KISIM5 TIMES PAP PLUS PAP |
| 1206C | CUNEIFORM SIGN DAG KISIM5 TIMES SI |
| 1206D | CUNEIFORM SIGN DAG KISIM5 TIMES TAK4 |
| 1206E | CUNEIFORM SIGN DAG KISIM5 TIMES U2 PLUS GIR2 |
| 1206F | CUNEIFORM SIGN DAG KISIM5 TIMES USH |
| 12070 | CUNEIFORM SIGN DAM |
| 12071 | CUNEIFORM SIGN DAR |
| 12072 | CUNEIFORM SIGN DARA3 |
| 12073 | CUNEIFORM SIGN DARA4 |
| 12074 | CUNEIFORM SIGN DI |
| 12075 | CUNEIFORM SIGN DIB |
| 12076 | CUNEIFORM SIGN DIM |
| 12077 | CUNEIFORM SIGN DIM TIMES SHE |
| 12078 | CUNEIFORM SIGN DIM2 |
| 12079 | CUNEIFORM SIGN DIN |
| 1207A | CUNEIFORM SIGN DIN KASKAL U GUNU DISH |
| 1207B | CUNEIFORM SIGN DISH |
| 1207C | CUNEIFORM SIGN DU |
| 1207D | CUNEIFORM SIGN DU OVER DU |
| 1207E | CUNEIFORM SIGN DU GUNU |
| 1207F | CUNEIFORM SIGN DU SHESHIG |

Row 120: CUNEIFORM

| | 1208 | 1209 | 120A | 120B | 120C | 120D | 120E | 120F |
|---|------|------|------|------|------|------|------|------|
| 0 | | | | | | | | |
| 1 | | | | | | | | |
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| 3 | | | | | | | | |
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| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |

G = 00
P = 01

Row 120: CUNEIFORM

| hex | Name |
|-------|---|
| 12080 | CUNEIFORM SIGN DUB |
| 12081 | CUNEIFORM SIGN DUB TIMES ESH2 |
| 12082 | CUNEIFORM SIGN DUB2 |
| 12083 | CUNEIFORM SIGN DUG |
| 12084 | CUNEIFORM SIGN DUGUD |
| 12085 | CUNEIFORM SIGN DUN |
| 12086 | CUNEIFORM SIGN DUN3 |
| 12087 | CUNEIFORM SIGN DUN3 GUNU |
| 12088 | CUNEIFORM SIGN DUN3 GUNU GUNU |
| 12089 | CUNEIFORM SIGN DUN3 GUNU GUNU SHESHIG |
| 1208A | CUNEIFORM SIGN DUR2 |
| 1208B | CUNEIFORM SIGN E |
| 1208C | CUNEIFORM SIGN E TIMES PAP |
| 1208D | CUNEIFORM SIGN E OVER E |
| 1208E | CUNEIFORM SIGN E OVER E NUN OVER NUN |
| 1208F | CUNEIFORM SIGN E2 |
| 12090 | CUNEIFORM SIGN E2 TIMES A PLUS HA PLUS DA |
| 12091 | CUNEIFORM SIGN E2 TIMES GAR |
| 12092 | CUNEIFORM SIGN E2 TIMES MI |
| 12093 | CUNEIFORM SIGN E2 TIMES SAL |
| 12094 | CUNEIFORM SIGN E2 TIMES SHE |
| 12095 | CUNEIFORM SIGN E2 TIMES U |
| 12096 | CUNEIFORM SIGN EDIN |
| 12097 | CUNEIFORM SIGN EGIR |
| 12098 | CUNEIFORM SIGN EL |
| 12099 | CUNEIFORM SIGN EN |
| 1209A | CUNEIFORM SIGN EN TIMES GAN2 |
| 1209B | CUNEIFORM SIGN EN TIMES GAN2 TENU |
| 1209C | CUNEIFORM SIGN EN TIMES ME |
| 1209D | CUNEIFORM SIGN EN CROSSING EN |
| 1209E | CUNEIFORM SIGN EN OPPOSING EN |
| 1209F | CUNEIFORM SIGN EN SQUARED |
| 120A0 | CUNEIFORM SIGN EREN |
| 120A1 | CUNEIFORM SIGN ERIN2 |
| 120A2 | CUNEIFORM SIGN ESH2 |
| 120A3 | CUNEIFORM SIGN EZEN |
| 120A4 | CUNEIFORM SIGN EZEN TIMES A |
| 120A5 | CUNEIFORM SIGN EZEN TIMES A PLUS LAL |
| 120A6 | CUNEIFORM SIGN EZEN TIMES A PLUS LAL2 |
| 120A7 | CUNEIFORM SIGN EZEN TIMES AN |
| 120A8 | CUNEIFORM SIGN EZEN TIMES BAD |
| 120A9 | CUNEIFORM SIGN EZEN TIMES DUN3 |
| 120AA | CUNEIFORM SIGN EZEN TIMES DUN3 GUNU SHESHIG |
| 120AB | CUNEIFORM SIGN EZEN TIMES HA |
| 120AC | CUNEIFORM SIGN EZEN TIMES HA GUNU |
| 120AD | CUNEIFORM SIGN EZEN TIMES IGI GUNU |
| 120AE | CUNEIFORM SIGN EZEN TIMES KASKAL |
| 120AF | CUNEIFORM SIGN EZEN TIMES KASKAL SQUARED |
| 120B0 | CUNEIFORM SIGN EZEN TIMES KU3 |
| 120B1 | CUNEIFORM SIGN EZEN TIMES LA |
| 120B2 | CUNEIFORM SIGN EZEN TIMES LAL2 |
| 120B3 | CUNEIFORM SIGN EZEN TIMES LI |
| 120B4 | CUNEIFORM SIGN EZEN TIMES LU |
| 120B5 | CUNEIFORM SIGN EZEN TIMES U2 |
| 120B6 | CUNEIFORM SIGN EZEN TIMES UD |
| 120B7 | CUNEIFORM SIGN GA |
| 120B8 | CUNEIFORM SIGN GA GUNU |
| 120B9 | CUNEIFORM SIGN GA2 |
| 120BA | CUNEIFORM SIGN GA2 TIMES A PLUS DA PLUS HA |
| 120BB | CUNEIFORM SIGN GA2 TIMES A PLUS HA |
| 120BC | CUNEIFORM SIGN GA2 TIMES A PLUS IGI |
| 120BD | CUNEIFORM SIGN GA2 TIMES AB2 TENU PLUS TAB |
| 120BE | CUNEIFORM SIGN GA2 TIMES AN |
| 120BF | CUNEIFORM SIGN GA2 TIMES ASH |
| 120C0 | CUNEIFORM SIGN GA2 TIMES ASH2 PLUS GAL |
| 120C1 | CUNEIFORM SIGN GA2 TIMES BAD |
| 120C2 | CUNEIFORM SIGN GA2 TIMES BAR PLUS RA |
| 120C3 | CUNEIFORM SIGN GA2 TIMES BUR |
| 120C4 | CUNEIFORM SIGN GA2 TIMES BUR PLUS RA |
| 120C5 | CUNEIFORM SIGN GA2 TIMES DA |
| 120C6 | CUNEIFORM SIGN GA2 TIMES DI |
| 120C7 | CUNEIFORM SIGN GA2 TIMES DIM TIMES SHE |
| 120C8 | CUNEIFORM SIGN GA2 TIMES DUB |
| 120C9 | CUNEIFORM SIGN GA2 TIMES EL |
| 120CA | CUNEIFORM SIGN GA2 TIMES EL PLUS LA |
| 120CB | CUNEIFORM SIGN GA2 TIMES EN |
| 120CC | CUNEIFORM SIGN GA2 TIMES EN TIMES GAN2 TENU |
| 120CD | CUNEIFORM SIGN GA2 TIMES GAN2 TENU |
| 120CE | CUNEIFORM SIGN GA2 TIMES GAR |
| 120CF | CUNEIFORM SIGN GA2 TIMES GI |
| 120D0 | CUNEIFORM SIGN GA2 TIMES GI4 |
| 120D1 | CUNEIFORM SIGN GA2 TIMES GI4 PLUS A |
| 120D2 | CUNEIFORM SIGN GA2 TIMES GIR2 PLUS SU |
| 120D3 | CUNEIFORM SIGN GA2 TIMES HA PLUS LU PLUS ESH2 |
| 120D4 | CUNEIFORM SIGN GA2 TIMES HAL |
| 120D5 | CUNEIFORM SIGN GA2 TIMES HAL PLUS LA |
| 120D6 | CUNEIFORM SIGN GA2 TIMES HI PLUS LI |
| 120D7 | CUNEIFORM SIGN GA2 TIMES HUB2 |
| 120D8 | CUNEIFORM SIGN GA2 TIMES IGI GUNU |

| hex | Name |
|-------|---|
| 120D9 | CUNEIFORM SIGN GA2 TIMES ISH PLUS HU PLUS ASH |
| 120DA | CUNEIFORM SIGN GA2 TIMES KAK |
| 120DB | CUNEIFORM SIGN GA2 TIMES KASKAL |
| 120DC | CUNEIFORM SIGN GA2 TIMES KID |
| 120DD | CUNEIFORM SIGN GA2 TIMES KID PLUS LAL |
| 120DE | CUNEIFORM SIGN GA2 TIMES KU3 PLUS AN |
| 120DF | CUNEIFORM SIGN GA2 TIMES ME PLUS EN |
| 120E0 | CUNEIFORM SIGN GA2 TIMES MI |
| 120E1 | CUNEIFORM SIGN GA2 TIMES NUN |
| 120E2 | CUNEIFORM SIGN GA2 TIMES NUN OVER NUN |
| 120E3 | CUNEIFORM SIGN GA2 TIMES PA |
| 120E4 | CUNEIFORM SIGN GA2 TIMES SAL |
| 120E5 | CUNEIFORM SIGN GA2 TIMES SAR |
| 120E6 | CUNEIFORM SIGN GA2 TIMES SHE |
| 120E7 | CUNEIFORM SIGN GA2 TIMES SHE PLUS TUR |
| 120E8 | CUNEIFORM SIGN GA2 TIMES SHID |
| 120E9 | CUNEIFORM SIGN GA2 TIMES SUM |
| 120EA | CUNEIFORM SIGN GA2 TIMES TAK4 |
| 120EB | CUNEIFORM SIGN GA2 TIMES U |
| 120EC | CUNEIFORM SIGN GA2 TIMES UD |
| 120ED | CUNEIFORM SIGN GA2 TIMES UD PLUS DU |
| 120EE | CUNEIFORM SIGN GA2 OVER GA2 |
| 120EF | CUNEIFORM SIGN GABA |
| 120F0 | CUNEIFORM SIGN GABA CROSSING GABA |
| 120F1 | CUNEIFORM SIGN GAD |
| 120F2 | CUNEIFORM SIGN GAD OVER GAD GAR OVER GAR |
| 120F3 | CUNEIFORM SIGN GAL |
| 120F4 | CUNEIFORM SIGN GAL GAD OVER GAD GAR OVER GAR |
| 120F5 | CUNEIFORM SIGN GALAM |
| 120F6 | CUNEIFORM SIGN GAM |
| 120F7 | CUNEIFORM SIGN GAN |
| 120F8 | CUNEIFORM SIGN GAN2 |
| 120F9 | CUNEIFORM SIGN GAN2 TENU |
| 120FA | CUNEIFORM SIGN GAN2 OVER GAN2 |
| 120FB | CUNEIFORM SIGN GAN2 CROSSING GAN2 |
| 120FC | CUNEIFORM SIGN GAR |
| 120FD | CUNEIFORM SIGN GAR3 |
| 120FE | CUNEIFORM SIGN GASHAN |
| 120FF | CUNEIFORM SIGN GESHTIN |

Row 121: CUNEIFORM

| | 1210 | 1211 | 1212 | 1213 | 1214 | 1215 | 1216 | 1217 |
|---|------|------|------|------|------|------|------|------|
| 0 | | | | | | | | |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
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| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |

G = 00
P = 01

Row 121: CUNEIFORM

| hex | Name |
|-------|--|
| 12100 | CUNEIFORM SIGN GESHTIN TIMES KUR |
| 12101 | CUNEIFORM SIGN GI |
| 12102 | CUNEIFORM SIGN GI TIMES E |
| 12103 | CUNEIFORM SIGN GI TIMES U |
| 12104 | CUNEIFORM SIGN GI CROSSING GI |
| 12105 | CUNEIFORM SIGN GI4 |
| 12106 | CUNEIFORM SIGN GI4 OVER GI4 |
| 12107 | CUNEIFORM SIGN GI4 CROSSING GI4 |
| 12108 | CUNEIFORM SIGN GIDIM |
| 12109 | CUNEIFORM SIGN GIG |
| 1210A | CUNEIFORM SIGN GIR2 |
| 1210B | CUNEIFORM SIGN GIR2 GUNU |
| 1210C | CUNEIFORM SIGN GIR3 |
| 1210D | CUNEIFORM SIGN GIR3 TIMES A PLUS IGI |
| 1210E | CUNEIFORM SIGN GIR3 TIMES GAN2 TENU |
| 1210F | CUNEIFORM SIGN GIR3 TIMES IGI |
| 12110 | CUNEIFORM SIGN GIR3 TIMES LU PLUS IGI |
| 12111 | CUNEIFORM SIGN GIR3 TIMES PA |
| 12112 | CUNEIFORM SIGN GISAL |
| 12113 | CUNEIFORM SIGN GISH |
| 12114 | CUNEIFORM SIGN GISH TUG2 PI SHIR TENU SILA3 |
| 12115 | CUNEIFORM SIGN GISH TIMES BAD |
| 12116 | CUNEIFORM SIGN GISH TIMES TAK4 |
| 12117 | CUNEIFORM SIGN GISH TENU |
| 12118 | CUNEIFORM SIGN GU |
| 12119 | CUNEIFORM SIGN GU CROSSING GU |
| 1211A | CUNEIFORM SIGN GU2 |
| 1211B | CUNEIFORM SIGN GU2 TIMES KAK |
| 1211C | CUNEIFORM SIGN GU2 TIMES KAK TIMES IGI GUNU |
| 1211D | CUNEIFORM SIGN GU2 TIMES NUN |
| 1211E | CUNEIFORM SIGN GU2 TIMES SAL PLUS TUG2 |
| 1211F | CUNEIFORM SIGN GU2 GUNU |
| 12120 | CUNEIFORM SIGN GUD |
| 12121 | CUNEIFORM SIGN GUD TIMES A PLUS KUR |
| 12122 | CUNEIFORM SIGN GUD TIMES KUR |
| 12123 | CUNEIFORM SIGN GUD OVER GUD LUGAL |
| 12124 | CUNEIFORM SIGN GUM |
| 12125 | CUNEIFORM SIGN GUM TIMES SHE |
| 12126 | CUNEIFORM SIGN GUR |
| 12127 | CUNEIFORM SIGN GUR7 |
| 12128 | CUNEIFORM SIGN GURUN |
| 12129 | CUNEIFORM SIGN GURUSH |
| 1212A | CUNEIFORM SIGN HA |
| 1212B | CUNEIFORM SIGN HA TENU |
| 1212C | CUNEIFORM SIGN HA GUNU |
| 1212D | CUNEIFORM SIGN HAL |
| 1212E | CUNEIFORM SIGN HI |
| 1212F | CUNEIFORM SIGN HI TIMES ASH |
| 12130 | CUNEIFORM SIGN HI TIMES ASH2 |
| 12131 | CUNEIFORM SIGN HI TIMES ASH2 GUNU |
| 12132 | CUNEIFORM SIGN HI TIMES BAD |
| 12133 | CUNEIFORM SIGN HI TIMES DISH |
| 12134 | CUNEIFORM SIGN HI TIMES GAD |
| 12135 | CUNEIFORM SIGN HI TIMES KIN |
| 12136 | CUNEIFORM SIGN HI TIMES NUN |
| 12137 | CUNEIFORM SIGN HI TIMES SHE |
| 12138 | CUNEIFORM SIGN HI TIMES U |
| 12139 | CUNEIFORM SIGN HU |
| 1213A | CUNEIFORM SIGN HUB2 |
| 1213B | CUNEIFORM SIGN HUB2 TIMES AN |
| 1213C | CUNEIFORM SIGN HUB2 TIMES HAL |
| 1213D | CUNEIFORM SIGN HUB2 TIMES KASKAL |
| 1213E | CUNEIFORM SIGN HUB2 TIMES LISH |
| 1213F | CUNEIFORM SIGN HUB2 TIMES UD |
| 12140 | CUNEIFORM SIGN HUL2 |
| 12141 | CUNEIFORM SIGN I |
| 12142 | CUNEIFORM SIGN I A |
| 12143 | CUNEIFORM SIGN IB |
| 12144 | CUNEIFORM SIGN IDIM |
| 12145 | CUNEIFORM SIGN IDIM OVER IDIM BUR |
| 12146 | CUNEIFORM SIGN IDIM OVER IDIM SQUARED |
| 12147 | CUNEIFORM SIGN IG |
| 12148 | CUNEIFORM SIGN IGI |
| 12149 | CUNEIFORM SIGN IGI DIB |
| 1214A | CUNEIFORM SIGN IGI RI |
| 1214B | CUNEIFORM SIGN IGI OVER IGI SHIR OVER SHIR UD OVER UD |
| 1214C | CUNEIFORM SIGN IL |
| 1214D | CUNEIFORM SIGN IL TIMES GAN2 TENU |
| 1214E | CUNEIFORM SIGN IL2 |
| 1214F | CUNEIFORM SIGN IM |
| 12150 | CUNEIFORM SIGN IM TIMES TAK4 |
| 12151 | CUNEIFORM SIGN IM CROSSING IM |
| 12152 | CUNEIFORM SIGN IM OPPOSING IM |
| 12153 | CUNEIFORM SIGN IM SQUARED |
| 12154 | (This position shall not be used) |
| 12155 | CUNEIFORM SIGN IN |
| 12156 | CUNEIFORM SIGN IR |
| 12157 | CUNEIFORM SIGN ISH |

| hex | Name |
|-------|--|
| 12158 | CUNEIFORM SIGN KA |
| 12159 | CUNEIFORM SIGN KA TIMES A |
| 1215A | CUNEIFORM SIGN KA TIMES AD |
| 1215B | CUNEIFORM SIGN KA TIMES AD PLUS KU3 |
| 1215C | CUNEIFORM SIGN KA TIMES ASH2 |
| 1215D | CUNEIFORM SIGN KA TIMES BAD |
| 1215E | CUNEIFORM SIGN KA TIMES BALAG |
| 1215F | CUNEIFORM SIGN KA TIMES BAR |
| 12160 | CUNEIFORM SIGN KA TIMES BI |
| 12161 | CUNEIFORM SIGN KA TIMES DUB2 |
| 12162 | CUNEIFORM SIGN KA TIMES ERIN2 |
| 12163 | CUNEIFORM SIGN KA TIMES ESH2 |
| 12164 | CUNEIFORM SIGN KA TIMES GA |
| 12165 | CUNEIFORM SIGN KA TIMES GAL |
| 12166 | CUNEIFORM SIGN KA TIMES GAN2 TENU |
| 12167 | CUNEIFORM SIGN KA TIMES GAR |
| 12168 | CUNEIFORM SIGN KA TIMES GAR PLUS SHA3 PLUS A |
| 12169 | CUNEIFORM SIGN KA TIMES GI |
| 1216A | CUNEIFORM SIGN KA TIMES GIG |
| 1216B | CUNEIFORM SIGN KA TIMES GIR2 |
| 1216C | CUNEIFORM SIGN KA TIMES GISH PLUS SAR |
| 1216D | CUNEIFORM SIGN KA TIMES GU |
| 1216E | CUNEIFORM SIGN KA TIMES GUR7 |
| 1216F | CUNEIFORM SIGN KA TIMES IGI |
| 12170 | CUNEIFORM SIGN KA TIMES IM |
| 12171 | CUNEIFORM SIGN KA TIMES KAK |
| 12172 | CUNEIFORM SIGN KA TIMES KI |
| 12173 | CUNEIFORM SIGN KA TIMES KIB |
| 12174 | CUNEIFORM SIGN KA TIMES KID |
| 12175 | CUNEIFORM SIGN KA TIMES LI |
| 12176 | CUNEIFORM SIGN KA TIMES LU |
| 12177 | CUNEIFORM SIGN KA TIMES ME |
| 12178 | CUNEIFORM SIGN KA TIMES ME PLUS DU |
| 12179 | CUNEIFORM SIGN KA TIMES ME PLUS GI |
| 1217A | CUNEIFORM SIGN KA TIMES ME PLUS ME |
| 1217B | CUNEIFORM SIGN KA TIMES ME PLUS TE |
| 1217C | CUNEIFORM SIGN KA TIMES MI |
| 1217D | CUNEIFORM SIGN KA TIMES NE |
| 1217E | CUNEIFORM SIGN KA TIMES NUN |
| 1217F | CUNEIFORM SIGN KA TIMES PI |

Row 121: CUNEIFORM

| | 1218 | 1219 | 121A | 121B | 121C | 121D | 121E | 121F |
|---|------|------|------|------|------|------|------|------|
| 0 | | | | | | | | |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
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| 4 | | | | | | | | |
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| 8 | | | | | | | | |
| 9 | | | | | | | | |
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |

G = 00
P = 01

Row 121: CUNEIFORM

| hex | Name |
|-------|--|
| 12180 | CUNEIFORM SIGN KA TIMES RU |
| 12181 | CUNEIFORM SIGN KA TIMES SA |
| 12182 | CUNEIFORM SIGN KA TIMES SAR |
| 12183 | CUNEIFORM SIGN KA TIMES SHA |
| 12184 | CUNEIFORM SIGN KA TIMES SHE |
| 12185 | CUNEIFORM SIGN KA TIMES SHID |
| 12186 | CUNEIFORM SIGN KA TIMES SHU |
| 12187 | CUNEIFORM SIGN KA TIMES SIG |
| 12188 | CUNEIFORM SIGN KA TIMES SUHUR |
| 12189 | CUNEIFORM SIGN KA TIMES TAR |
| 1218A | CUNEIFORM SIGN KA TIMES U |
| 1218B | CUNEIFORM SIGN KA TIMES U2 |
| 1218C | CUNEIFORM SIGN KA TIMES UD |
| 1218D | CUNEIFORM SIGN KA TIMES UMUM TIMES PA |
| 1218E | CUNEIFORM SIGN KA TIMES USH |
| 1218F | CUNEIFORM SIGN KA TIMES ZI |
| 12190 | CUNEIFORM SIGN KA2 |
| 12191 | CUNEIFORM SIGN KA2 CROSSING KA2 |
| 12192 | CUNEIFORM SIGN KAB |
| 12193 | CUNEIFORM SIGN KAD2 |
| 12194 | CUNEIFORM SIGN KAD3 |
| 12195 | CUNEIFORM SIGN KAD4 |
| 12196 | CUNEIFORM SIGN KAD5 |
| 12197 | CUNEIFORM SIGN KAD5 OVER KAD5 |
| 12198 | CUNEIFORM SIGN KAK |
| 12199 | CUNEIFORM SIGN KAK TIMES IGI GUNU |
| 1219A | CUNEIFORM SIGN KAL |
| 1219B | CUNEIFORM SIGN KAL TIMES BAD |
| 1219C | CUNEIFORM SIGN KAL CROSSING KAL |
| 1219D | CUNEIFORM SIGN KAM2 |
| 1219E | CUNEIFORM SIGN KAM4 |
| 1219F | CUNEIFORM SIGN KASKAL |
| 121A0 | CUNEIFORM SIGN KESH2 |
| 121A1 | CUNEIFORM SIGN KI |
| 121A2 | CUNEIFORM SIGN KI TIMES BAD |
| 121A3 | CUNEIFORM SIGN KI TIMES U |
| 121A4 | CUNEIFORM SIGN KI TIMES UD |
| 121A5 | CUNEIFORM SIGN KIB |
| 121A6 | CUNEIFORM SIGN KID |
| 121A7 | CUNEIFORM SIGN KIN |
| 121A8 | CUNEIFORM SIGN KISAL |
| 121A9 | CUNEIFORM SIGN KISH |
| 121AA | CUNEIFORM SIGN KISIM5 |
| 121AB | CUNEIFORM SIGN KISIM5 OVER KISIM5 |
| 121AC | CUNEIFORM SIGN KU |
| 121AD | CUNEIFORM SIGN KU OVER HI TIMES ASH2 KU OVER HI TIMES ASH2 |
| 121AE | CUNEIFORM SIGN KU3 |
| 121AF | CUNEIFORM SIGN KU4 |
| 121B0 | CUNEIFORM SIGN KU4 VARIANT |
| 121B1 | CUNEIFORM SIGN KU7 |
| 121B2 | CUNEIFORM SIGN KUL |
| 121B3 | CUNEIFORM SIGN KUL GUNU |
| 121B4 | CUNEIFORM SIGN KUN |
| 121B5 | CUNEIFORM SIGN KUR |
| 121B6 | CUNEIFORM SIGN KUR OPPOSING KUR |
| 121B7 | CUNEIFORM SIGN KUSHU2 |
| 121B8 | CUNEIFORM SIGN KWU318 |
| 121B9 | CUNEIFORM SIGN LA |
| 121BA | CUNEIFORM SIGN LAGAB |
| 121BB | CUNEIFORM SIGN LAGAB TIMES A |
| 121BC | CUNEIFORM SIGN LAGAB TIMES A PLUS DA PLUS HA |
| 121BD | CUNEIFORM SIGN LAGAB TIMES A PLUS GAR |
| 121BE | CUNEIFORM SIGN LAGAB TIMES A PLUS LAL |
| 121BF | CUNEIFORM SIGN LAGAB TIMES AL |
| 121C0 | CUNEIFORM SIGN LAGAB TIMES AN |
| 121C1 | CUNEIFORM SIGN LAGAB TIMES ASH ZIDA TENU |
| 121C2 | CUNEIFORM SIGN LAGAB TIMES BAD |
| 121C3 | CUNEIFORM SIGN LAGAB TIMES BI |
| 121C4 | CUNEIFORM SIGN LAGAB TIMES DAR |
| 121C5 | CUNEIFORM SIGN LAGAB TIMES EN |
| 121C6 | CUNEIFORM SIGN LAGAB TIMES GA |
| 121C7 | CUNEIFORM SIGN LAGAB TIMES GAR |
| 121C8 | CUNEIFORM SIGN LAGAB TIMES GUD |
| 121C9 | CUNEIFORM SIGN LAGAB TIMES GUD PLUS GUD |
| 121CA | CUNEIFORM SIGN LAGAB TIMES HA |
| 121CB | CUNEIFORM SIGN LAGAB TIMES HAL |
| 121CC | CUNEIFORM SIGN LAGAB TIMES HI TIMES NUN |
| 121CD | CUNEIFORM SIGN LAGAB TIMES IGI GUNU |
| 121CE | CUNEIFORM SIGN LAGAB TIMES IM |
| 121CF | CUNEIFORM SIGN LAGAB TIMES IM PLUS HA |
| 121D0 | CUNEIFORM SIGN LAGAB TIMES IM PLUS LU |
| 121D1 | CUNEIFORM SIGN LAGAB TIMES KI |
| 121D2 | CUNEIFORM SIGN LAGAB TIMES KIN |
| 121D3 | CUNEIFORM SIGN LAGAB TIMES KU3 |
| 121D4 | CUNEIFORM SIGN LAGAB TIMES KUL |
| 121D5 | CUNEIFORM SIGN LAGAB TIMES KUL PLUS HI PLUS A |
| 121D6 | CUNEIFORM SIGN LAGAB TIMES LAGAB |
| 121D7 | CUNEIFORM SIGN LAGAB TIMES LISH |

| hex | Name |
|-------|--|
| 121D8 | CUNEIFORM SIGN LAGAB TIMES LU |
| 121D9 | CUNEIFORM SIGN LAGAB TIMES LUL |
| 121DA | CUNEIFORM SIGN LAGAB TIMES ME |
| 121DB | CUNEIFORM SIGN LAGAB TIMES ME PLUS EN |
| 121DC | CUNEIFORM SIGN LAGAB TIMES MUSH |
| 121DD | CUNEIFORM SIGN LAGAB TIMES NE |
| 121DE | CUNEIFORM SIGN LAGAB TIMES SHE PLUS SUM |
| 121DF | CUNEIFORM SIGN LAGAB TIMES SHITA PLUS ERIN2 |
| 121E0 | CUNEIFORM SIGN LAGAB TIMES SHITA TENU |
| 121E1 | CUNEIFORM SIGN LAGAB TIMES SHU2 |
| 121E2 | CUNEIFORM SIGN LAGAB TIMES SHU2 PLUS SHU2 |
| 121E3 | CUNEIFORM SIGN LAGAB TIMES SUM |
| 121E4 | CUNEIFORM SIGN LAGAB TIMES TAG |
| 121E5 | CUNEIFORM SIGN LAGAB TIMES TAK4 |
| 121E6 | CUNEIFORM SIGN LAGAB TIMES TE PLUS A PLUS SU PLUS NA |
| 121E7 | CUNEIFORM SIGN LAGAB TIMES U PLUS A |
| 121E8 | CUNEIFORM SIGN LAGAB TIMES U PLUS U PLUS U |
| 121E9 | CUNEIFORM SIGN LAGAB TIMES U2 PLUS ASH |
| 121EA | CUNEIFORM SIGN LAGAB TIMES UD |
| 121EB | CUNEIFORM SIGN LAGAB TIMES USH |
| 121EC | CUNEIFORM SIGN LAGAB SQUARED |
| 121ED | CUNEIFORM SIGN LAGAR |
| 121EE | CUNEIFORM SIGN LAGAR TIMES SHE |
| 121EF | CUNEIFORM SIGN LAGAR TIMES SHE PLUS SUM |
| 121F0 | CUNEIFORM SIGN LAGAR GUNU |
| 121F1 | CUNEIFORM SIGN LAGAR GUNU OVER LAGAR GUNU SHE |
| 121F2 | CUNEIFORM SIGN LAHSHU |
| 121F3 | CUNEIFORM SIGN LAL |
| 121F4 | CUNEIFORM SIGN LAL2 |
| 121F5 | CUNEIFORM SIGN LAL2 TIMES DU |
| 121F6 | CUNEIFORM SIGN LAL2 TIMES HAL |
| 121F7 | CUNEIFORM SIGN LAL2 TIMES KAK |
| 121F8 | CUNEIFORM SIGN LAL2 TIMES NI |
| 121F9 | CUNEIFORM SIGN LAL2 TIMES SAR |
| 121FA | CUNEIFORM SIGN LAL2 TIMES URU TIMES MIN |
| 121FB | CUNEIFORM SIGN LAM |
| 121FC | CUNEIFORM SIGN LAM TIMES KUR |
| 121FD | CUNEIFORM SIGN LAM TIMES KUR PLUS RU |
| 121FE | CUNEIFORM SIGN LI |
| 121FF | CUNEIFORM SIGN LIL |

Row 122: CUNEIFORM

| | 1220 | 1221 | 1222 | 1223 | 1224 | 1225 | 1226 | 1227 |
|---|------|------|------|------|------|------|------|------|
| 0 | | | | | | | | |
| 1 | | | | | | | | |
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| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |

G = 00
P = 01

Row 122: CUNEIFORM

| hex | Name |
|-------|---|
| 12200 | CUNEIFORM SIGN LIMMU2 |
| 12201 | CUNEIFORM SIGN LISH |
| 12202 | CUNEIFORM SIGN LU |
| 12203 | CUNEIFORM SIGN LU TIMES BAD |
| 12204 | CUNEIFORM SIGN LU2 |
| 12205 | CUNEIFORM SIGN LU2 TIMES AL |
| 12206 | CUNEIFORM SIGN LU2 TIMES BAD |
| 12207 | CUNEIFORM SIGN LU2 TIMES ESH2 |
| 12208 | CUNEIFORM SIGN LU2 TIMES ESH2 TENU |
| 12209 | CUNEIFORM SIGN LU2 TIMES GAN2 TENU |
| 1220A | CUNEIFORM SIGN LU2 TIMES HI TIMES BAD |
| 1220B | CUNEIFORM SIGN LU2 TIMES IM |
| 1220C | CUNEIFORM SIGN LU2 TIMES KAD2 |
| 1220D | CUNEIFORM SIGN LU2 TIMES KAD3 |
| 1220E | CUNEIFORM SIGN LU2 TIMES KAD3 PLUS ASH |
| 1220F | CUNEIFORM SIGN LU2 TIMES KI |
| 12210 | CUNEIFORM SIGN LU2 TIMES LA PLUS ASH |
| 12211 | CUNEIFORM SIGN LU2 TIMES LAGAB |
| 12212 | CUNEIFORM SIGN LU2 TIMES ME PLUS EN |
| 12213 | CUNEIFORM SIGN LU2 TIMES NE |
| 12214 | CUNEIFORM SIGN LU2 TIMES NU |
| 12215 | CUNEIFORM SIGN LU2 TIMES SI PLUS ASH |
| 12216 | CUNEIFORM SIGN LU2 TIMES SIK2 PLUS BU |
| 12217 | CUNEIFORM SIGN LU2 TIMES TUG2 |
| 12218 | CUNEIFORM SIGN LU2 TENU |
| 12219 | CUNEIFORM SIGN LU2 CROSSING LU2 |
| 1221A | CUNEIFORM SIGN LU2 OPPOSING LU2 |
| 1221B | CUNEIFORM SIGN LU2 SQUARED |
| 1221C | CUNEIFORM SIGN LU2 SHESHIG |
| 1221D | CUNEIFORM SIGN LU3 |
| 1221E | CUNEIFORM SIGN LUGAL |
| 1221F | CUNEIFORM SIGN LUGAL OVER LUGAL |
| 12220 | CUNEIFORM SIGN LUGAL OPPOSING LUGAL |
| 12221 | CUNEIFORM SIGN LUGAL SHESHIG |
| 12222 | CUNEIFORM SIGN LUH |
| 12223 | CUNEIFORM SIGN LUL |
| 12224 | CUNEIFORM SIGN LUM |
| 12225 | CUNEIFORM SIGN LUM OVER LUM |
| 12226 | CUNEIFORM SIGN LUM OVER LUM GAR OVER GAR |
| 12227 | CUNEIFORM SIGN MA |
| 12228 | CUNEIFORM SIGN MA TIMES TAK4 |
| 12229 | CUNEIFORM SIGN MA GUNU |
| 1222A | CUNEIFORM SIGN MA2 |
| 1222B | CUNEIFORM SIGN MAH |
| 1222C | CUNEIFORM SIGN MAR |
| 1222D | CUNEIFORM SIGN MASH |
| 1222E | CUNEIFORM SIGN MASH2 |
| 1222F | CUNEIFORM SIGN ME |
| 12230 | CUNEIFORM SIGN MES |
| 12231 | CUNEIFORM SIGN MI |
| 12232 | CUNEIFORM SIGN MIN |
| 12233 | CUNEIFORM SIGN MU |
| 12234 | CUNEIFORM SIGN MU OVER MU |
| 12235 | CUNEIFORM SIGN MUG |
| 12236 | CUNEIFORM SIGN MUNSUB |
| 12237 | CUNEIFORM SIGN MURGU2 |
| 12238 | CUNEIFORM SIGN MUSH |
| 12239 | CUNEIFORM SIGN MUSH TIMES A |
| 1223A | CUNEIFORM SIGN MUSH TIMES KUR |
| 1223B | CUNEIFORM SIGN MUSH TIMES ZA |
| 1223C | CUNEIFORM SIGN MUSH CROSSING MUSH |
| 1223D | CUNEIFORM SIGN MUSH3 |
| 1223E | CUNEIFORM SIGN MUSH3 TIMES A |
| 1223F | CUNEIFORM SIGN MUSH3 TIMES A PLUS DI |
| 12240 | CUNEIFORM SIGN MUSH3 TIMES DI |
| 12241 | CUNEIFORM SIGN MUSH3 GUNU |
| 12242 | CUNEIFORM SIGN NA |
| 12243 | CUNEIFORM SIGN NA2 |
| 12244 | CUNEIFORM SIGN NAGA |
| 12245 | CUNEIFORM SIGN NAGA TIMES SHU TENU |
| 12246 | CUNEIFORM SIGN NAGA OPPOSING NAGA |
| 12247 | CUNEIFORM SIGN NAGAR |
| 12248 | CUNEIFORM SIGN NAM NUTILLU |
| 12249 | CUNEIFORM SIGN NAM |
| 1224A | CUNEIFORM SIGN NAM2 |
| 1224B | CUNEIFORM SIGN NE |
| 1224C | CUNEIFORM SIGN NE TIMES A |
| 1224D | CUNEIFORM SIGN NE TIMES UD |
| 1224E | CUNEIFORM SIGN NE SHESHIG |
| 1224F | CUNEIFORM SIGN NI |
| 12250 | CUNEIFORM SIGN NI TIMES E |
| 12251 | CUNEIFORM SIGN NI2 |
| 12252 | CUNEIFORM SIGN NIM |
| 12253 | CUNEIFORM SIGN NIM TIMES GAN2 TENU |
| 12254 | CUNEIFORM SIGN NIM TIMES GAR PLUS GAN2 TENU |
| 12255 | CUNEIFORM SIGN NINDA2 |
| 12256 | CUNEIFORM SIGN NINDA2 TIMES AN |
| 12257 | CUNEIFORM SIGN NINDA2 TIMES ASH |
| 12258 | CUNEIFORM SIGN NINDA2 TIMES ASH PLUS ASH |

| hex | Name |
|-------|--|
| 12259 | CUNEIFORM SIGN NINDA2 TIMES GUD |
| 1225A | CUNEIFORM SIGN NINDA2 TIMES ME PLUS GAN2 |
| 1225B | CUNEIFORM SIGN NINDA2 TIMES NE |
| 1225C | CUNEIFORM SIGN NINDA2 TIMES NUN |
| 1225D | CUNEIFORM SIGN NINDA2 TIMES SHE |
| 1225E | CUNEIFORM SIGN NINDA2 TIMES SHE PLUS A AN |
| 1225F | CUNEIFORM SIGN NINDA2 TIMES SHE PLUS ASH |
| 12260 | CUNEIFORM SIGN NINDA2 TIMES SHE PLUS ASH PLUS ASH |
| 12261 | CUNEIFORM SIGN NINDA2 TIMES U2 PLUS ASH |
| 12262 | CUNEIFORM SIGN NINDA2 TIMES USH |
| 12263 | CUNEIFORM SIGN NISAG |
| 12264 | CUNEIFORM SIGN NU |
| 12265 | CUNEIFORM SIGN NU11 |
| 12266 | CUNEIFORM SIGN NUN |
| 12267 | CUNEIFORM SIGN NUN LAGAR TIMES GAR |
| 12268 | CUNEIFORM SIGN NUN LAGAR TIMES MASH |
| 12269 | CUNEIFORM SIGN NUN LAGAR TIMES SAL |
| 1226A | CUNEIFORM SIGN NUN LAGAR TIMES SAL OVER NUN LAGAR TIMES SAL |
| 1226B | CUNEIFORM SIGN NUN LAGAR TIMES USH |
| 1226C | CUNEIFORM SIGN NUN TENU |
| 1226D | CUNEIFORM SIGN NUN OVER NUN |
| 1226E | CUNEIFORM SIGN NUN CROSSING NUN |
| 1226F | CUNEIFORM SIGN NUN CROSSING NUN LAGAR OVER LAGAR |
| 12270 | CUNEIFORM SIGN NUNUZ |
| 12271 | CUNEIFORM SIGN NUNUZ AB2 TIMES ASHGAB |
| 12272 | CUNEIFORM SIGN NUNUZ AB2 TIMES BI |
| 12273 | CUNEIFORM SIGN NUNUZ AB2 TIMES DUG |
| 12274 | CUNEIFORM SIGN NUNUZ AB2 TIMES GUD |
| 12275 | CUNEIFORM SIGN NUNUZ AB2 TIMES IGI GUNU |
| 12276 | CUNEIFORM SIGN NUNUZ AB2 TIMES KAD3 |
| 12277 | CUNEIFORM SIGN NUNUZ AB2 TIMES LA |
| 12278 | CUNEIFORM SIGN NUNUZ AB2 TIMES NE |
| 12279 | CUNEIFORM SIGN NUNUZ AB2 TIMES SILA3 |
| 1227A | CUNEIFORM SIGN NUNUZ AB2 TIMES U2 |
| 1227B | CUNEIFORM SIGN NUNUZ KISIM5 TIMES BI |
| 1227C | CUNEIFORM SIGN NUNUZ KISIM5 TIMES BI U |
| 1227D | CUNEIFORM SIGN PA |
| 1227E | CUNEIFORM SIGN PAD |
| 1227F | CUNEIFORM SIGN PAN |

Row 122: CUNEIFORM

| | 1228 | 1229 | 122A | 122B | 122C | 122D | 122E | 122F |
|---|------|------|------|------|------|------|------|------|
| 0 | | | | | | | | |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
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| 8 | | | | | | | | |
| 9 | | | | | | | | |
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |

G = 00
P = 01

Row 122: CUNEIFORM

| hex | Name |
|-------|--|
| 12280 | CUNEIFORM SIGN PAP |
| 12281 | CUNEIFORM SIGN PAP IGI GUNU |
| 12282 | CUNEIFORM SIGN PESH2 |
| 12283 | CUNEIFORM SIGN PI |
| 12284 | CUNEIFORM SIGN PI TIMES A |
| 12285 | CUNEIFORM SIGN PI TIMES AB |
| 12286 | CUNEIFORM SIGN PI TIMES BI |
| 12287 | CUNEIFORM SIGN PI TIMES BU |
| 12288 | CUNEIFORM SIGN PI TIMES E |
| 12289 | CUNEIFORM SIGN PI TIMES I |
| 1228A | CUNEIFORM SIGN PI TIMES IB |
| 1228B | CUNEIFORM SIGN PI TIMES U |
| 1228C | CUNEIFORM SIGN PI TIMES U2 |
| 1228D | CUNEIFORM SIGN PI CROSSING PI |
| 1228E | CUNEIFORM SIGN PIRIG |
| 1228F | CUNEIFORM SIGN PIRIG TIMES KAL |
| 12290 | CUNEIFORM SIGN PIRIG TIMES UD |
| 12291 | CUNEIFORM SIGN PIRIG TIMES ZA |
| 12292 | CUNEIFORM SIGN PIRIG OPPOSING PIRIG |
| 12293 | CUNEIFORM SIGN RA |
| 12294 | CUNEIFORM SIGN RAB |
| 12295 | CUNEIFORM SIGN RI |
| 12296 | CUNEIFORM SIGN RU |
| 12297 | CUNEIFORM SIGN RU TIMES KUR |
| 12298 | CUNEIFORM SIGN SA |
| 12299 | CUNEIFORM SIGN SAG NUTILLU |
| 1229A | CUNEIFORM SIGN SAG |
| 1229B | CUNEIFORM SIGN SAG TIMES A |
| 1229C | CUNEIFORM SIGN SAG TIMES DU |
| 1229D | CUNEIFORM SIGN SAG TIMES DUB |
| 1229E | CUNEIFORM SIGN SAG TIMES HA |
| 1229F | CUNEIFORM SIGN SAG TIMES KAK |
| 122A0 | CUNEIFORM SIGN SAG TIMES KUR |
| 122A1 | CUNEIFORM SIGN SAG TIMES LUM |
| 122A2 | CUNEIFORM SIGN SAG TIMES MI |
| 122A3 | CUNEIFORM SIGN SAG TIMES NUN |
| 122A4 | CUNEIFORM SIGN SAG TIMES SAL |
| 122A5 | CUNEIFORM SIGN SAG TIMES SHID |
| 122A6 | CUNEIFORM SIGN SAG TIMES TAB |
| 122A7 | CUNEIFORM SIGN SAG TIMES U2 |
| 122A8 | CUNEIFORM SIGN SAG TIMES UB |
| 122A9 | CUNEIFORM SIGN SAG TIMES UM |
| 122AA | CUNEIFORM SIGN SAG TIMES UR |
| 122AB | CUNEIFORM SIGN SAG TIMES USH |
| 122AC | CUNEIFORM SIGN SAG OVER SAG |
| 122AD | CUNEIFORM SIGN SAG GUNU |
| 122AE | CUNEIFORM SIGN SAL |
| 122AF | CUNEIFORM SIGN SAL LAGAB TIMES ASH2 |
| 122B0 | CUNEIFORM SIGN SANGA2 |
| 122B1 | CUNEIFORM SIGN SAR |
| 122B2 | CUNEIFORM SIGN SHA |
| 122B3 | CUNEIFORM SIGN SHA3 |
| 122B4 | CUNEIFORM SIGN SHA3 TIMES A |
| 122B5 | CUNEIFORM SIGN SHA3 TIMES BAD |
| 122B6 | CUNEIFORM SIGN SHA3 TIMES GISH |
| 122B7 | CUNEIFORM SIGN SHA3 TIMES NE |
| 122B8 | CUNEIFORM SIGN SHA3 TIMES SHU2 |
| 122B9 | CUNEIFORM SIGN SHA3 TIMES TUR |
| 122BA | CUNEIFORM SIGN SHA3 TIMES U |
| 122BB | CUNEIFORM SIGN SHA3 TIMES U PLUS A |
| 122BC | CUNEIFORM SIGN SHA6 |
| 122BD | CUNEIFORM SIGN SHAB6 |
| 122BE | CUNEIFORM SIGN SHAR2 |
| 122BF | CUNEIFORM SIGN SHE |
| 122C0 | CUNEIFORM SIGN SHE HU |
| 122C1 | CUNEIFORM SIGN SHE OVER SHE GAD OVER GAD GAR OVER GAR |
| 122C2 | CUNEIFORM SIGN SHE OVER SHE TAB OVER TAB GAR OVER GAR |
| 122C3 | CUNEIFORM SIGN SHEG9 |
| 122C4 | CUNEIFORM SIGN SHEN |
| 122C5 | CUNEIFORM SIGN SHESH |
| 122C6 | CUNEIFORM SIGN SHESH2 |
| 122C7 | CUNEIFORM SIGN SHESHLAM |
| 122C8 | CUNEIFORM SIGN SHID |
| 122C9 | CUNEIFORM SIGN SHID TIMES A |
| 122CA | CUNEIFORM SIGN SHID TIMES IM |
| 122CB | CUNEIFORM SIGN SHIM |
| 122CC | CUNEIFORM SIGN SHIM TIMES A |
| 122CD | CUNEIFORM SIGN SHIM TIMES BAL |
| 122CE | CUNEIFORM SIGN SHIM TIMES BULUG |
| 122CF | CUNEIFORM SIGN SHIM TIMES DIN |
| 122D0 | CUNEIFORM SIGN SHIM TIMES GAR |
| 122D1 | CUNEIFORM SIGN SHIM TIMES IGI |
| 122D2 | CUNEIFORM SIGN SHIM TIMES IGI GUNU |
| 122D3 | CUNEIFORM SIGN SHIM TIMES LUL |
| 122D4 | CUNEIFORM SIGN SHIM TIMES MUG |
| 122D5 | CUNEIFORM SIGN SHIM TIMES SAL |
| 122D6 | CUNEIFORM SIGN SHINIG |

| hex | Name |
|-------|--|
| 122D7 | CUNEIFORM SIGN SHIR |
| 122D8 | CUNEIFORM SIGN SHIR OVER SHIR BUR OVER BUR |
| 122D9 | CUNEIFORM SIGN SHITA |
| 122DA | CUNEIFORM SIGN SHU |
| 122DB | CUNEIFORM SIGN SHU OVER INVERTED SHU |
| 122DC | CUNEIFORM SIGN SHU2 |
| 122DD | CUNEIFORM SIGN SHUBUR |
| 122DE | CUNEIFORM SIGN SI |
| 122DF | CUNEIFORM SIGN SI GUNU |
| 122E0 | CUNEIFORM SIGN SIG |
| 122E1 | CUNEIFORM SIGN SIG4 |
| 122E2 | CUNEIFORM SIGN SIG4 OVER SIG4 SHU2 |
| 122E3 | CUNEIFORM SIGN SIK2 |
| 122E4 | CUNEIFORM SIGN SILA3 |
| 122E5 | CUNEIFORM SIGN SU |
| 122E6 | CUNEIFORM SIGN SU OVER SU A |
| 122E7 | CUNEIFORM SIGN SUD |
| 122E8 | CUNEIFORM SIGN SUD2 |
| 122E9 | CUNEIFORM SIGN SUHUR |
| 122EA | CUNEIFORM SIGN SUM |
| 122EB | CUNEIFORM SIGN SUMASH |
| 122EC | CUNEIFORM SIGN SUR |
| 122ED | CUNEIFORM SIGN TA |
| 122EE | CUNEIFORM SIGN TA ASTERISK |
| 122EF | CUNEIFORM SIGN TA TIMES HI |
| 122F0 | CUNEIFORM SIGN TA TIMES MI |
| 122F1 | CUNEIFORM SIGN TA GUNU |
| 122F2 | CUNEIFORM SIGN TAB |
| 122F3 | CUNEIFORM SIGN TAB OVER TAB NI OVER NI DISH OVER DISH |
| 122F4 | CUNEIFORM SIGN TAB SQUARED |
| 122F5 | CUNEIFORM SIGN TAG |
| 122F6 | CUNEIFORM SIGN TAG TIMES BI |
| 122F7 | CUNEIFORM SIGN TAG TIMES GUD |
| 122F8 | CUNEIFORM SIGN TAG TIMES KU |
| 122F9 | CUNEIFORM SIGN TAG TIMES SHE |
| 122FA | CUNEIFORM SIGN TAG TIMES SHU |
| 122FB | CUNEIFORM SIGN TAG TIMES TUG2 |
| 122FC | CUNEIFORM SIGN TAG TIMES UD |
| 122FD | CUNEIFORM SIGN TAK4 |
| 122FE | CUNEIFORM SIGN TAR |
| 122FF | CUNEIFORM SIGN TE |

Row 123: CUNEIFORM

| | 1230 | 1231 | 1232 | 1233 | 1234 | 1235 | 1236 | 1237 |
|---|------|------|------|------|------|------|------|------|
| 0 | | | | | | | | |
| 1 | | | | | | | | |
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| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |

G = 00
P = 01

Row 123: CUNEIFORM

| hex | Name |
|-------|--|
| 12300 | CUNEIFORM SIGN TE GUNU |
| 12301 | CUNEIFORM SIGN TI |
| 12302 | CUNEIFORM SIGN TI TENU |
| 12303 | CUNEIFORM SIGN TIL |
| 12304 | CUNEIFORM SIGN TIR |
| 12305 | CUNEIFORM SIGN TIR TIMES TAK4 |
| 12306 | CUNEIFORM SIGN TIR OVER TIR |
| 12307 | CUNEIFORM SIGN TIR OVER TIR GAD OVER GAD GAR OVER GAR |
| 12308 | CUNEIFORM SIGN TU |
| 12309 | CUNEIFORM SIGN TUG2 |
| 1230A | CUNEIFORM SIGN TUK |
| 1230B | CUNEIFORM SIGN TUM |
| 1230C | CUNEIFORM SIGN TUR |
| 1230D | CUNEIFORM SIGN TUR OVER TUR ZA OVER ZA |
| 1230E | CUNEIFORM SIGN U |
| 1230F | CUNEIFORM SIGN U GUD |
| 12310 | CUNEIFORM SIGN U U U |
| 12311 | CUNEIFORM SIGN U OVER U PA OVER PA GAR OVER GAR |
| 12312 | CUNEIFORM SIGN U OVER U SUR OVER SUR |
| 12313 | CUNEIFORM SIGN U OVER U U REVERSED OVER U REVERSED |
| 12314 | CUNEIFORM SIGN U2 |
| 12315 | CUNEIFORM SIGN UB |
| 12316 | CUNEIFORM SIGN UD |
| 12317 | CUNEIFORM SIGN UD KUSHU2 |
| 12318 | CUNEIFORM SIGN UD TIMES BAD |
| 12319 | CUNEIFORM SIGN UD TIMES MI |
| 1231A | CUNEIFORM SIGN UD TIMES U PLUS U PLUS U |
| 1231B | CUNEIFORM SIGN UD TIMES U PLUS U PLUS U GUNU |
| 1231C | CUNEIFORM SIGN UD GUNU |
| 1231D | CUNEIFORM SIGN UD SHESHIG |
| 1231E | CUNEIFORM SIGN UD SHESHIG TIMES BAD |
| 1231F | CUNEIFORM SIGN UDUG |
| 12320 | CUNEIFORM SIGN UM |
| 12321 | CUNEIFORM SIGN UM TIMES LAGAB |
| 12322 | CUNEIFORM SIGN UM TIMES ME PLUS DA |
| 12323 | CUNEIFORM SIGN UM TIMES SHA3 |
| 12324 | CUNEIFORM SIGN UM TIMES U |
| 12325 | CUNEIFORM SIGN UMUM |
| 12326 | CUNEIFORM SIGN UMUM TIMES KASKAL |
| 12327 | CUNEIFORM SIGN UMUM TIMES PA |
| 12328 | CUNEIFORM SIGN UN |
| 12329 | CUNEIFORM SIGN UN GUNU |
| 1232A | CUNEIFORM SIGN UR |
| 1232B | CUNEIFORM SIGN UR CROSSING UR |
| 1232C | CUNEIFORM SIGN UR SHESHIG |
| 1232D | CUNEIFORM SIGN UR2 |
| 1232E | CUNEIFORM SIGN UR2 TIMES A PLUS HA |
| 1232F | CUNEIFORM SIGN UR2 TIMES HA |
| 12330 | CUNEIFORM SIGN UR2 TIMES NUN |
| 12331 | CUNEIFORM SIGN UR2 TIMES U2 |
| 12332 | CUNEIFORM SIGN UR2 TIMES U2 PLUS ASH |
| 12333 | CUNEIFORM SIGN UR2 TIMES U2 PLUS BI |
| 12334 | CUNEIFORM SIGN UR4 |
| 12335 | CUNEIFORM SIGN URI |
| 12336 | CUNEIFORM SIGN UR13 |
| 12337 | CUNEIFORM SIGN URU |
| 12338 | CUNEIFORM SIGN URU TIMES A |
| 12339 | CUNEIFORM SIGN URU TIMES ASHGAB |
| 1233A | CUNEIFORM SIGN URU TIMES BAR |
| 1233B | CUNEIFORM SIGN URU TIMES DUN |
| 1233C | CUNEIFORM SIGN URU TIMES GA |
| 1233D | CUNEIFORM SIGN URU TIMES GAL |
| 1233E | CUNEIFORM SIGN URU TIMES GAN2 TENU |
| 1233F | CUNEIFORM SIGN URU TIMES GAR |
| 12340 | CUNEIFORM SIGN URU TIMES GU |
| 12341 | CUNEIFORM SIGN URU TIMES HA |
| 12342 | CUNEIFORM SIGN URU TIMES IGI |
| 12343 | CUNEIFORM SIGN URU TIMES IM |
| 12344 | CUNEIFORM SIGN URU TIMES ISH |
| 12345 | CUNEIFORM SIGN URU TIMES KI |
| 12346 | CUNEIFORM SIGN URU TIMES LUM |
| 12347 | CUNEIFORM SIGN URU TIMES MIN |
| 12348 | CUNEIFORM SIGN URU TIMES PA |
| 12349 | CUNEIFORM SIGN URU TIMES SHE |
| 1234A | CUNEIFORM SIGN URU TIMES SIG4 |
| 1234B | CUNEIFORM SIGN URU TIMES TU |
| 1234C | CUNEIFORM SIGN URU TIMES TU PLUS TU |
| 1234D | CUNEIFORM SIGN URU TIMES U PLUS GUD |
| 1234E | CUNEIFORM SIGN URU TIMES UD |
| 1234F | CUNEIFORM SIGN URU TIMES URUDA |
| 12350 | CUNEIFORM SIGN URUDA |
| 12351 | CUNEIFORM SIGN URUDA TIMES U |
| 12352 | CUNEIFORM SIGN USH |
| 12353 | CUNEIFORM SIGN USH TIMES A |
| 12354 | CUNEIFORM SIGN USH TIMES KU |
| 12355 | CUNEIFORM SIGN USH TIMES KUR |
| 12356 | CUNEIFORM SIGN USH TIMES TAK4 |

| hex | Name |
|-------|-------------------------------------|
| 12357 | CUNEIFORM SIGN USHX |
| 12358 | CUNEIFORM SIGN USH2 |
| 12359 | CUNEIFORM SIGN USHUMX |
| 1235A | CUNEIFORM SIGN UTUKI |
| 1235B | CUNEIFORM SIGN UZ3 |
| 1235C | CUNEIFORM SIGN UZ3 TIMES KASKAL |
| 1235D | CUNEIFORM SIGN UZU |
| 1235E | CUNEIFORM SIGN ZA |
| 1235F | CUNEIFORM SIGN ZA TENU |
| 12360 | CUNEIFORM SIGN ZA SQUARED TIMES KUR |
| 12361 | CUNEIFORM SIGN ZAX |
| 12362 | CUNEIFORM SIGN ZADIM |
| 12363 | CUNEIFORM SIGN ZAG |
| 12364 | CUNEIFORM SIGN ZAMX |
| 12365 | CUNEIFORM SIGN ZE2 |
| 12366 | CUNEIFORM SIGN ZI |
| 12367 | CUNEIFORM SIGN ZI OVER ZI |
| 12368 | CUNEIFORM SIGN ZI3 |
| 12369 | CUNEIFORM SIGN ZIB |
| 1236A | CUNEIFORM SIGN ZIB KABA TENU |
| 1236B | CUNEIFORM SIGN ZIG |
| 1236C | CUNEIFORM SIGN ZIZ2 |
| 1236D | CUNEIFORM SIGN ZU |
| 1236E | CUNEIFORM SIGN ZU5 |
| 1236F | CUNEIFORM SIGN ZU5 TIMES A |
| 12370 | CUNEIFORM SIGN ZUBUR |
| 12371 | CUNEIFORM SIGN ZUM |
| 12372 | (This position shall not be used) |
| 12373 | (This position shall not be used) |
| 12374 | (This position shall not be used) |
| 12375 | (This position shall not be used) |
| 12376 | (This position shall not be used) |
| 12377 | (This position shall not be used) |
| 12378 | (This position shall not be used) |
| 12379 | (This position shall not be used) |
| 1237A | (This position shall not be used) |
| 1237B | (This position shall not be used) |
| 1237C | (This position shall not be used) |
| 1237D | (This position shall not be used) |
| 1237E | (This position shall not be used) |
| 1237F | (This position shall not be used) |

Row 123: CUNEIFORM NUMBERS

| | 1238 | 1239 | 123A | 123B | 123C | 123D | 123E | 123F |
|---|------|------|------|------|------|------|------|------|
| 0 | | | | | | | | |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |

G = 00
P = 01

Row 123: CUNEIFORM NUMBERS

| hex | Name |
|-------|---|
| 12380 | CUNEIFORM NUMERIC SIGN TWO ASH |
| 12381 | CUNEIFORM NUMERIC SIGN THREE ASH |
| 12382 | CUNEIFORM NUMERIC SIGN FOUR ASH |
| 12383 | CUNEIFORM NUMERIC SIGN FIVE ASH |
| 12384 | CUNEIFORM NUMERIC SIGN SIX ASH |
| 12385 | CUNEIFORM NUMERIC SIGN SEVEN ASH |
| 12386 | CUNEIFORM NUMERIC SIGN EIGHT ASH |
| 12387 | CUNEIFORM NUMERIC SIGN NINE ASH |
| 12388 | CUNEIFORM NUMERIC SIGN THREE DISH |
| 12389 | CUNEIFORM NUMERIC SIGN FOUR DISH |
| 1238A | CUNEIFORM NUMERIC SIGN FIVE DISH |
| 1238B | CUNEIFORM NUMERIC SIGN SIX DISH |
| 1238C | CUNEIFORM NUMERIC SIGN SEVEN DISH |
| 1238D | CUNEIFORM NUMERIC SIGN EIGHT DISH |
| 1238E | CUNEIFORM NUMERIC SIGN NINE DISH |
| 1238F | CUNEIFORM NUMERIC SIGN FOUR U |
| 12390 | CUNEIFORM NUMERIC SIGN FIVE U |
| 12391 | CUNEIFORM NUMERIC SIGN SIX U |
| 12392 | CUNEIFORM NUMERIC SIGN SEVEN U |
| 12393 | CUNEIFORM NUMERIC SIGN EIGHT U |
| 12394 | CUNEIFORM NUMERIC SIGN NINE U |
| 12395 | CUNEIFORM NUMERIC SIGN ONE GESH2 |
| 12396 | CUNEIFORM NUMERIC SIGN TWO GESH2 |
| 12397 | CUNEIFORM NUMERIC SIGN THREE GESH2 |
| 12398 | CUNEIFORM NUMERIC SIGN FOUR GESH2 |
| 12399 | CUNEIFORM NUMERIC SIGN FIVE GESH2 |
| 1239A | CUNEIFORM NUMERIC SIGN SIX GESH2 |
| 1239B | CUNEIFORM NUMERIC SIGN SEVEN GESH2 |
| 1239C | CUNEIFORM NUMERIC SIGN EIGHT GESH2 |
| 1239D | CUNEIFORM NUMERIC SIGN NINE GESH2 |
| 1239E | CUNEIFORM NUMERIC SIGN ONE GESHU |
| 1239F | CUNEIFORM NUMERIC SIGN TWO GESHU |
| 123A0 | CUNEIFORM NUMERIC SIGN THREE GESHU |
| 123A1 | CUNEIFORM NUMERIC SIGN FOUR GESHU |
| 123A2 | CUNEIFORM NUMERIC SIGN FIVE GESHU |
| 123A3 | CUNEIFORM NUMERIC SIGN TWO SHAR2 |
| 123A4 | CUNEIFORM NUMERIC SIGN THREE SHAR2 |
| 123A5 | CUNEIFORM NUMERIC SIGN THREE SHAR2 VARIANT FORM |
| 123A6 | CUNEIFORM NUMERIC SIGN FOUR SHAR2 |
| 123A7 | CUNEIFORM NUMERIC SIGN FIVE SHAR2 |
| 123A8 | CUNEIFORM NUMERIC SIGN SIX SHAR2 |
| 123A9 | CUNEIFORM NUMERIC SIGN SEVEN SHAR2 |
| 123AA | CUNEIFORM NUMERIC SIGN EIGHT SHAR2 |
| 123AB | CUNEIFORM NUMERIC SIGN NINE SHAR2 |
| 123AC | CUNEIFORM NUMERIC SIGN ONE SHARU |
| 123AD | CUNEIFORM NUMERIC SIGN TWO SHARU |
| 123AE | CUNEIFORM NUMERIC SIGN THREE SHARU |
| 123AF | CUNEIFORM NUMERIC SIGN THREE SHARU VARIANT FORM |
| 123B0 | CUNEIFORM NUMERIC SIGN FOUR SHARU |
| 123B1 | CUNEIFORM NUMERIC SIGN FIVE SHARU |
| 123B2 | CUNEIFORM NUMERIC SIGN SHAR2 TIMES GAL PLUS DISH |
| 123B3 | CUNEIFORM NUMERIC SIGN SHAR2 TIMES GAL PLUS MIN |
| 123B4 | CUNEIFORM NUMERIC SIGN ONE BURU |
| 123B5 | CUNEIFORM NUMERIC SIGN TWO BURU |
| 123B6 | CUNEIFORM NUMERIC SIGN THREE BURU |
| 123B7 | CUNEIFORM NUMERIC SIGN THREE BURU VARIANT FORM |
| 123B8 | CUNEIFORM NUMERIC SIGN FOUR BURU |
| 123B9 | CUNEIFORM NUMERIC SIGN FIVE BURU |
| 123BA | CUNEIFORM NUMERIC SIGN THREE VARIANT FORM ESH16 |
| 123BB | CUNEIFORM NUMERIC SIGN THREE VARIANT FORM ESH21 |
| 123BC | CUNEIFORM NUMERIC SIGN FOUR VARIANT FORM LIMMU |
| 123BD | CUNEIFORM NUMERIC SIGN FOUR VARIANT FORM LIMMU4 |
| 123BE | CUNEIFORM NUMERIC SIGN FOUR VARIANT FORM LIMMU A |
| 123BF | CUNEIFORM NUMERIC SIGN FOUR VARIANT FORM LIMMU B |
| 123C0 | CUNEIFORM NUMERIC SIGN SIX VARIANT FORM ASH9 |
| 123C1 | CUNEIFORM NUMERIC SIGN SEVEN VARIANT FORM IMIN3 |
| 123C2 | CUNEIFORM NUMERIC SIGN SEVEN VARIANT FORM IMIN A |
| 123C3 | CUNEIFORM NUMERIC SIGN SEVEN VARIANT FORM IMIN B |
| 123C4 | CUNEIFORM NUMERIC SIGN EIGHT VARIANT FORM USSU |
| 123C5 | CUNEIFORM NUMERIC SIGN EIGHT VARIANT FORM USSU3 |
| 123C6 | CUNEIFORM NUMERIC SIGN NINE VARIANT FORM ILIMMU |
| 123C7 | CUNEIFORM NUMERIC SIGN NINE VARIANT FORM ILIMMU3 |
| 123C8 | CUNEIFORM NUMERIC SIGN NINE VARIANT FORM ILIMMU4 |
| 123C9 | CUNEIFORM NUMERIC SIGN NINE VARIANT FORM ILIMMU A |
| 123CA | CUNEIFORM NUMERIC SIGN TWO ASH TENU |
| 123CB | CUNEIFORM NUMERIC SIGN THREE ASH TENU |
| 123CC | CUNEIFORM NUMERIC SIGN FOUR ASH TENU |
| 123CD | CUNEIFORM NUMERIC SIGN FIVE ASH TENU |
| 123CE | CUNEIFORM NUMERIC SIGN SIX ASH TENU |
| 123CF | CUNEIFORM NUMERIC SIGN ONE BAN2 |
| 123D0 | CUNEIFORM NUMERIC SIGN TWO BAN2 |
| 123D1 | CUNEIFORM NUMERIC SIGN THREE BAN2 |
| 123D2 | CUNEIFORM NUMERIC SIGN FOUR BAN2 |
| 123D3 | CUNEIFORM NUMERIC SIGN FOUR BAN2 VARIANT FORM |
| 123D4 | CUNEIFORM NUMERIC SIGN FIVE BAN2 |
| 123D5 | CUNEIFORM NUMERIC SIGN FIVE BAN2 VARIANT FORM |
| 123D6 | CUNEIFORM NUMERIC SIGN TWO BARIG |
| 123D7 | CUNEIFORM NUMERIC SIGN THREE BARIG |
| 123D8 | CUNEIFORM NUMERIC SIGN ONE ESHE3 |

| hex | Name |
|-------|--|
| 123D9 | CUNEIFORM NUMERIC SIGN TWO ESHE3 |
| 123DA | CUNEIFORM NUMERIC SIGN ONE THIRD DISH |
| 123DB | CUNEIFORM NUMERIC SIGN TWO THIRDS DISH |
| 123DC | CUNEIFORM NUMERIC SIGN FIVE SIXTHS DISH |
| 123DD | CUNEIFORM NUMERIC SIGN ONE THIRD VARIANT FORM |
| 123DE | CUNEIFORM NUMERIC SIGN TWO THIRDS VARIANT FORM |
| 123DF | CUNEIFORM NUMERIC SIGN ONE EIGHTH ASH |
| 123E0 | CUNEIFORM NUMERIC SIGN ONE QUARTER ASH |
| 123E1 | CUNEIFORM NUMERIC SIGN OLD ASSYRIAN ONE SIXTH |
| 123E2 | CUNEIFORM NUMERIC SIGN OLD ASSYRIAN ONE QUARTER |
| 123E3 | (This position shall not be used) |
| 123E4 | (This position shall not be used) |
| 123E5 | (This position shall not be used) |
| 123E6 | (This position shall not be used) |
| 123E7 | (This position shall not be used) |
| 123E8 | (This position shall not be used) |
| 123E9 | (This position shall not be used) |
| 123EA | (This position shall not be used) |
| 123EB | (This position shall not be used) |
| 123EC | (This position shall not be used) |
| 123ED | (This position shall not be used) |
| 123EE | (This position shall not be used) |
| 123EF | (This position shall not be used) |
| 123F0 | CUNEIFORM PUNCTUATION SIGN OLD ASSYRIAN WORD DIVIDER |
| 123F1 | CUNEIFORM PUNCTUATION SIGN VERTICAL COLON |
| 123F2 | CUNEIFORM PUNCTUATION SIGN DIAGONAL COLON |
| 123F3 | CUNEIFORM PUNCTUATION SIGN DIAGONAL TRICOLON |
| 123F4 | (This position shall not be used) |
| 123F5 | (This position shall not be used) |
| 123F6 | (This position shall not be used) |
| 123F7 | (This position shall not be used) |
| 123F8 | (This position shall not be used) |
| 123F9 | (This position shall not be used) |
| 123FA | (This position shall not be used) |
| 123FB | (This position shall not be used) |
| 123FC | (This position shall not be used) |
| 123FD | (This position shall not be used) |
| 123FE | (This position shall not be used) |
| 123FF | (This position shall not be used) |