

Universal Multiple-Octet Coded Character Set
International Organization for Standardization
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Doc Type: Working Group Document**Title: Proposal to encode Tangut Radicals and CJK Strokes in the UCS****Source: Michael Everson and Andrew West****Status: Individual Contribution****Action: For consideration by JTC1/SC2/WG2 and UTC****Date: 2008-09-01**

1. Introduction. Richard Cook’s proposal to encode the Tangut script (N3297) explicitly does not propose a set of Tangut radical characters, giving the reason that “the competing systems of Tangut radicals ... are idiosyncratic and partial” and because “[t]he task of enumerating the complete set of Tangut radicals is rather open-ended” (N3297:2). Discussion with Tangut scholars, however, has indicated that there is an *overwhelming* desire to see Tangut radicals encoded *at the same time* as the main body of Tangut characters, both to enable representation of dictionary indexes in electronic form (see Figures 2 through 14) and to facilitate discussion of the structural composition of Tangut characters (see Figure 1). Moreover, because there are various traditions of indexing Tangut characters by radicals, it is important that the set of Tangut radicals encoded is a superset of all the different Tangut radicals used by various authors—and not just the set of radicals upon which the ordering of the characters in the main Tangut block is based.

It should be noted that unlike Chinese radicals, which almost all exist as independent ideographic characters in their own right, the vast majority of Tangut radicals do not exist as independent characters, and so need to be encoded separately from the set of Tangut characters in the main Tangut proposal. Although a minority of the radicals proposed in this document do also exist as independent Tangut characters, we believe that for sake of consistency it is best to encode all the radicals as distinct radical characters in a single block, with the same character properties, regardless of whether they exist as independent Tangut characters or not. Moreover, the glyph form of a Tangut radical and its corresponding Tangut character may not have the same proportions (e.g. R0140 𐰃, which is typically drawn much thinner than the corresponding character, U+1782A 𐰃).

2. Endorsements from Tangut scholars.

- **Guillaume Jacques** (<http://xiang.free.fr/>)—*First, I agree that radicals (and recurring parts of characters not recognized as radicals) ought to be part of the Unicode proposal.*
- **Marc Miyake** (<http://www.amritas.com/>)—*I would love radicals to be part of Unicode, as much of my work deals with tangraphic structure ... Needless to say, radicals are an absolute must for typesetting discussions of graphic analyses.*
- **Viacheslav Zaytsev** (Institute of Oriental Manuscripts of the Russian Academy of Sciences)—*I agree that it’s necessary to make superset of Tangut radicals used in different sources. It’s a brilliant solution.*

3. Sources. The present document proposes to encode a set of 802 Tangut radicals, which are a superset of the radicals used in the following sources, which are all major works on Tangut lexicography:

- 1 Kyčanov, E. I. (Е. И. Кычанов). 2006. *Словарь тангутского (Си Ся) языка* (= *Slovar' tangut-skogo (Si Sja) jazyka*) [Tangut-Russian-English-Chinese Dictionary]. St. Petersburg and Kyoto.
- 2 Hán Xiǎománg (韓小忙). 2004. 西夏文正字研究 (*Xīxiàwén Zhengzi Yanjiu*).
- 3 Lǐ Fànwén (李范文). 1997. 夏漢字典 (= *Xià-Han Zidian*). Beijing.
- 4 Lǐ Fànwén (李范文). 1986. 同音研究 (= *Tóngyīn Yánjiū*). Yinchuan.
- 5 Shǐ Jīnbō (史金波) et al. 1983. 文海研究 (= *Wénhǎi Yánjiū*). Beijing.
- 6 Grinstead, Eric. 1972. *Analysis of the Tangut Script* (Scandinavian Institute of Asian Studies Monograph Series No.10).
- 7 Nishida Tatsuo (西田龍雄). 1966. 西夏文小字典 (= *Seikabun Kojiten*). In 西夏語の研究 (= *Seikago no kenkyū*) [A Study of the Hsi-Hsia Language] (1964-1966) vol.2. Tokyo..
- 8 Kolokolov, V. S. (В. С. Колоколов) and E. I. Kyčanov (Е. И. Кычанов). 1966. *Китайская классика в тангутском переводе* (= *Kitajskaja klassika v tangutskom perevode*) [Chinese Classics in Tangut Translation]. Moscow.
- 9 Nevskij N. A. (Н. А. Невский). 1960. *Тангутская филология: Исследования и словарь* (= *Tangutskaja filologija: Issledovanija i slovar'*) [Tangut philology: Researches and dictionary]. Moscow.
- 10 Кeping, К. В. (К. В. Кепинг) et al. 1969. *Море писъмен* (= *More pis'men*) [The Sea of Characters]. Moscow.
- 11 Sofronov M. V. (М. В. Софронов). 1968. *Грамматика тангутского языка* (= *Grammatika tangutskogo jazyka*). Moscow.

4. Radical systems. As no surviving Tangut dictionaries from the Western Xià period use a system of radicals to index characters, the radical systems used in the above sources have, of necessity, been devised by the particular authors based on their own analyses of Tangut characters. Consequently, the different sets of radicals identified by these authors vary considerably, although there is a core set of radicals that are common to all of them.

It should also be noted that these are not strictly radicals in the sense that CJK radicals are, but are structural elements that have been arbitrarily selected to facilitate character lookup. There are two distinct approaches to radical determination:

- most authors (e.g. Nishida, Sofronov, Shǐ Jīnbō, Lǐ Fànwén, and Hán Xiǎománg) choose the leftmost structural element of a character as its radical where possible, and the top, bottom or surrounding element if not;
- some authors (e.g. Grinstead, Kolokov, and Kyčanov) choose the structural element at the bottom right of a character as its radical.

The set of radicals derived by combining these left-oriented and right-oriented approaches comes close to covering every possible structural element that occurs in Tangut characters.

5. Complex components. In addition to the elements used as radicals that are proposed for encoding here, there is an open-ended set of complex components that scholars may want to refer to when analysing Tangut characters. For example, Nishida Tatsuo analyses the structure of the characters U+173ED 𐰽 and U+186EB 𐰽 as follows (see also Figure 1).

One “simple character” can be broken down into several elements or clusters or elements. For example, “ear” 𐰽 upon analysis is found to be composed of elements 𐰽 and 𐰽, and element 𐰽 may in turn be broken down into elements |, 𐰽; and 𐰽; “to see” 𐰽 is made up of elements 𐰽 and 𐰽, and 𐰽 is itself made up of elements 𐰽 and 𐰽.

Nishida Tatsuo, *A Study of Hsi-Hsia Language* (Tokyo, 1966) Vol. 2, p. 547.

In this example the simple elements 𠂇, 丨, 𠂇, 𠂇, 𠂇, 𠂇, and 𠂇 are all used as radicals, and so are proposed for encoding. On the other hand, the complex components 𠂇 and 𠂇 are not used as radicals in any source, and so are not proposed for encoding. However, there is still a need to be able to represent these and other similar complex components in electronic text. We therefore propose that arbitrary complex components such as these should be represented at the encoding level as Ideographic Description Sequences, and, where possible, rendered as a single glyph using smart font technology such as OpenType. Thus 𠂇 could be represented as `[] | 𠂇 <2FF2 18802 18830 18822>`; and 𠂇 could be represented as `[] 𠂇 <2FF0 18836 18843>`. A smart Tangut font would either compose the desired glyph dynamically or substitute a precomposed glyph for the IDS sequence. In cases where a Tangut font does not support this feature, the fallback would be to display all elements of the IDS sequence visibly.

6. Subsidiary radicals. Both Lǐ Fàn wén (1986 and 1997) and Kyčanov have a number of radicals that can be considered to be subsidiary forms of another radical. In these cases, in addition to the main radical, they also include a subsidiary radical made up of a smaller version of the main radical with a rectangular box placed above or below it, indicating that the radical comprises a base radical plus any other structural element above or below it. For example, Kyčanov has both 𠂇 and 𠂇, whereas Lǐ Fàn wén 1997 has both 𠂇 and 𠂇 (the rectangular box on the right is used to indicate that the radical occurs at the top left of a character). In cases such as these, where there is no difference in character shape between the full-sized radical and the small-sized radical under or above a box, we have proposed only a single radical for encoding (R0034 𠂇 in the preceding example). However, in two cases Kyčanov has a radical that surrounds a box, and there is a difference in shape between this radical and the corresponding radical with no box (𠂇 / 𠂇 and 𠂇 / 𠂇), and in these two cases only we have proposed to encode the two radicals separately as R0009 𠂇 / R0010 𠂇 and R0380 𠂇 / R0381 𠂇 (but with no box).

However, there is still a need to be able to render these subsidiary radicals with a box above or below. We suggest that a simple way of doing this would be by using IDS sequences of Tangut radicals combined with either the character U+25A0 or U+25A1 (which are the characters that Unicode recommends to represent black or white boxes in ideographic text). For example 𠂇 could be represented as `[] 𠂇 <2FF1 25A0 18821>`, and 𠂇 could be represented as `[] 𠂇 <2FF0 2FF1 18821 25A1 25A1>`. Likewise, 𠂇 could be represented as `[] 𠂇 <2FFA 18809 25A0>`. A Tangut font intended to support Lǐ Fàn wén’s or Kyčanov’s system of radicals could substitute an appropriate precomposed glyph for a given IDS sequence. Note that this solution would require a redefinition of the characters that can make up an IDS sequence, but this would also be very beneficial to CJK textual scholars who frequently represent partially missing or obliterated Han ideographs in manuscripts or inscriptions by means of a combination of a white box and a character element, which currently cannot be represented in plain text Unicode.

7. Glyph variants. Non-significant glyph differences for the same radical in different sources have been ignored. In some cases, however, one source treats two glyph forms as separate radicals, even though other sources treat them as glyph variants of the same radical (for example, Kyčanov distinguishes R0088 𠂇 [Kyčanov’s B186] from R0114 𠂇 [Kyčanov’s B168], but Lǐ Fàn wén includes both glyph forms under the same radical). In all such cases the radicals have been encoded separately. On the other hand, where two or more glyph forms of the same element are not differentiated in any source they are not encoded separately. For example, R0028 𠂇 and other radicals that include R0028 may be written with either a short final stroke or an extended stroke, but as no source categorizes the two forms as different radicals, they have not been encoded separately.

8. Naming convention. Although the 5,910 Tangut Ideographs are named by their UCS code position, the much smaller set of Tangut Radicals are best given catalogue numbers so that Tangut scholars can refer to them conveniently. We have prefixed R (for “radical”) to a four digit number including leading zeroes.

9. CJK strokes. Several important modern Tangut dictionaries and studies of Tangut characters refer to the stroke types that make up Tangut characters (see Figures 11a and 13). The majority of Tangut stroke types are the same as strokes used in writing Han ideographs, which are already encoded in the **CJK Strokes** block (31C0..31EF). As the Script property of characters in the CJK Strokes block is *Common*, and as other Sinoform scripts to be encoded, such as Jurchen and Khitan, are also written using a subset of strokes encoded in the CJK Strokes block, we believe that most Tangut strokes can be represented using the corresponding character in the existing CJK Strokes block, as shown in the table below.

Code Point	Character Name	Tangut Stroke	Example Tangut Radicals
31C0	CJK STROKE T	丿	𐰇
31C7	CJK STROKE HP	㇇	𐰇 𐰈 𐰉 𐰊
31C8	CJK STROKE HZWG	㇈	𐰇 𐰈
31CF	CJK STROKE N	㇉	𐰇 𐰈
31D0	CJK STROKE H	一	𐰇 𐰈
31D1	CJK STROKE S	丨	𐰇 𐰈 𐰉
31D2	CJK STROKE P	ノ	𐰇 𐰈
31D4	CJK STROKE D	丶	𐰇 𐰈 𐰉 𐰊 𐰋
31D5	CJK STROKE HZ	㇊	𐰇 𐰈
31D7	CJK STROKE SZ	㇋	𐰇
31DB	CJK STROKE PD	㇌	𐰇
31DC	CJK STROKE PZ	㇍	𐰇
31DE	CJK STROKE SZZ	㇎	𐰇
31DF	CJK STROKE SWG	㇏	𐰇 𐰈
31E1	CJK STROKE HZZZG	㇐	𐰇

However, there are four strokes used for Tangut that are not currently encoded, and we therefore propose to add them to the CJK Strokes block at code points 31E4 through 31E7.

Code Point	Character Name	Tangut Stroke	Example Tangut Radicals
31E4	CJK STROKE HPZ	㇑	𐰇 𐰈 𐰉 𐰊
31E5	CJK STROKE HPDT	㇒	𐰇
31E6	CJK STROKE HPZP	㇓	𐰇 𐰈 𐰉
31E7	CJK STROKE PDT	㇔	𐰇 𐰈

10. Source references. In the table which follows

- **Kyčanov 2006.**

References are the numbers assigned by Kyčanov on pages 2–7. “A” numbers are radicals that occur at the bottom, “B” numbers are radicals that occur at the right side, “C” numbers are radicals that occur at the left side extending along the bottom, and “D” numbers are radicals that occur at the top extending down both sides.

- **Hán Xiǎománg 2004.**

References are the four-digit character reference number for the first character with this radical, as given in the table of radicals on pages 11-13 (the character reference numbers are in the last column of Table 1 on pages 14-337).

- **Lǐ Fànwén 1997.**

References are to the page number, column (A, B, or C) and position in column where the radical starts in the radical index on pages 1091–1166 (e.g. 1096-C3 is the third radical on column C of page 1096). In a few cases the radical is listed in the table of radicals on pages 1088–1090 but has been inadvertently omitted from the actual radical index, and in these cases the position where the

radical occurs is given in brackets. Where two or more forms of the same basic radical are given, they are distinguished by lowercase letters (e.g. 1099-B1a and 1099-B1b).

- **Lǐ Fànwén 1986.**

References are to the page number, column (A, B, or C) and position in column where the radical starts in the radical index on pages 771-845 (e.g. 794-C2 is the second radical on column C of page 794). Where two or more forms of the same basic radical are given, they are distinguished by lowercase letters (e.g. 789-A2a and 789-A2b).

- **Shǐ Jīnbō 1983.**

References are to the page number and position on the page of this radical in the radical index on pages 674-704 (e.g. 686-17 is the 17th radical on page 686).

- **Grinstead 1972.**

References are to the page number and relative position on the page of the start of characters with this radical on pages 72-151 (e.g. 150C is the third radical on page 150). Grinstead radicals are the elements that occur at the bottom right-hand corner of a character.

- **Kolokolov & Kyčanov 1966.**

References are the alphanumeric code indicated in the grid on page 23. These radicals are the bottom right hand components of characters.

- **Nishida 1966.**

References are the three-digit numbers assigned to the radical by Nishida in his radical indices on pages 305-308 and 506-507.

- **Nevskij 1960.**

References are to the volume (I or II) and page number where the first character with this radical occurs, as indicated in the radical index on pages 669-677. If two or more radicals share the same page number they are distinguished by lowercase letters (e.g. I-260a and I-260b).

11. Unicode Character Properties.

```
31E4;CJK STROKE HPZ;So;0;ON;;;;;N;;;;;
31E5;CJK STROKE HPDT;So;0;ON;;;;;N;;;;;
31E6;CJK STROKE HPZP;So;0;ON;;;;;N;;;;;
31E7;CJK STROKE PDT;So;0;ON;;;;;N;;;;;

18880;TANGUT RADICAL R0001;So;0;ON;;;;;N;;;;;
..
18B21;TANGUT RADICAL R0802;So;0;ON;;;;;N;;;;;
```

12. Encoding order. The encoding order of characters is based on their stroke count and stroke type according to the table below.

Precedence	Stroke	Type examples
1	Horizontal	一 𠄎
2	Vertical	丨 𠄏
3	Slanting	ノ
4	Dot	丶
5	Horizontal Bend	㇇ ㇈ ㇉ ㇊ ㇋ ㇌ ㇍
6	Vertical Bend	㇎ ㇏ ㇐ ㇑
7	Slanting Bend	㇒ ㇓

U+18843	R0068	久	B164 B192	久	0880	1111-A4	790-A5	680-11	久	127C	久	202	N-1	久	I-392
U+18844	R0069	久	C012	久	0925	1111-C1	791-A1	680-09	久	136A	久	275			
U+18845	R0070	久			0932	1112-A1	790-C1	680-10	久			032			
U+18846	R0071	多			0878	1111-A2	790-A3	681-02	多			201	L-2	多	I-370
U+18847	R0072	𠂇	B257	𠂇						106	𠂇				
U+18848	R0073	𠂇			0949	1101-C2	785-A1	678-02	𠂇						
U+18849	R0074	𠂇			0951	1101-C3	785-A2	678-01	𠂇			006			
U+1884A	R0075	𠂇													
U+1884B	R0076	𠂇											D-3	𠂇	
U+1884C	R0077	𠂇			1225	1105-C1	785-B1	678-03	𠂇			046			I-362
U+1884D	R0078	𠂇			0961	1102-B3	782-A1	677-03	𠂇			007			I-277
U+1884E	R0079	𠂇			1230	1105-C2	785-B2	677-02	𠂇			037			I-383
U+1884F	R0080	𠂇								76B	𠂇				
U+18850	R0081	𠂇			1237	1108-C2 1109-B1	787-B2	680-01	𠂇			010			I-320
U+18851	R0082	𠂇				1109-B2	787-B1								
U+18852	R0083	𠂇			1279	1107-C1	776-B1	679-11	𠂇			182	X-2	𠂇	I-550
U+18853	R0084	𠂇	B148	𠂇						94	𠂇		W-2	𠂇	
U+18854	R0085	𠂇			1363	1109-B3	788-A1	680-02	𠂇			023			I-406
U+18855	R0086	𠂇	B036	𠂇	1367	1106-C2	786-C2	680-05	𠂇	79A	𠂇	049			I-407
U+18856	R0087	𠂇					789-A2b					086			I-386
U+18857	R0088	久	B186 B191	久	1957	1110-A2	788-C1	684-03	久	129A	久	218			II-141
U+18858	R0089	𠂇						679-10	𠂇						I-452
U+18859	R0090	𠂇			1411	1109-C1 1109-C2	788-A2 788-B1	679-09	𠂇			034			I-456
U+1885A	R0091	𠂇	B016	𠂇	1383	1107-A1	786-B2	680-03	𠂇			073			I-430 II-137
U+1885B	R0092	𠂇	B038	𠂇	1404	1107-A2	786-C1	680-04	𠂇			053			I-600b
U+1885C	R0093	𠂇	B161	𠂇									V-6	𠂇	
U+1885D	R0094	𠂇			1422	1112-A2	791-A2	679-03	𠂇			090			II-219
U+1885E	R0095	𠂇	B258	𠂇											
U+1885F	R0096	𠂇								76C	𠂇				
U+18860	R0097	𠂇	B027	𠂇	1423	1121-A2	796-A1	682-03	𠂇	76F	𠂇	057			I-451
U+18861	R0098	𠂇	B035	𠂇	1427	1115-B1	793-C3	682-06	𠂇			102			I-538
U+18862	R0099	𠂇			1480			682-07	𠂇			016			
U+18863	R0100	𠂇	B074 B078	𠂇	1481	1116-A1	794-B1	682-05	𠂇			104			II-148
U+18864	R0101	𠂇	B288	𠂇											
U+18865	R0102	𠂇	B156	𠂇	1489	1119-B2	796-A2	691-02	𠂇			187	V-3	𠂇	II-270

U+18866	R0103	𠄎											E-5	𠄎	
U+18867	R0104	𠄎	B270 B273	𠄎											
U+18868	R0105	𠄎			1503	1123-A2 1126-C1	799-B5 803-B1	683-01	𠄎			017			I-462
U+18869	R0106	𠄎	A002	𠄎		1127-A2	803-B2 803-C1	684-01	𠄎	72B	𠄎	017b			
U+1886A	R0107	𠄎													I-516
U+1886B	R0108	𠄎	B095 B096	𠄎	1835	1116-B1	794-C2	682-08	𠄎	86C	𠄎	112			I-594
U+1886C	R0109	𠄎	B301	𠄎									H-2 H-4	𠄎	
U+1886D	R0110	𠄎	B064	𠄎	1851	1116-C1	795-A1	682-09	𠄎	91C	𠄎	154			I-589
U+1886E	R0111	𠄎	B293	𠄎									G-3	𠄎	
U+1886F	R0112	𠄎	B242	𠄎	1869	1119-C2	796-B1 797-B1	682-10	𠄎	93B	𠄎	255	M-3	𠄎	I-564
U+18870	R0113	𠄎	B243	𠄎									M-4	𠄎	II-198
U+18871	R0114	𠄎	B168	𠄎			788-C2	684-02	𠄎			219	O-1	𠄎	
U+18872	R0115	𠄎	B187 B188	𠄎	3241	1118-A1		691-09	𠄎			220			
U+18873	R0116	𠄎			1992	1123-A1	799-B1					035			
U+18874	R0117	𠄎	B260	𠄎						109	𠄎				
U+18875	R0118	𠄎	B131	𠄎	1994	1127-A3	803-C2	686-03	𠄎			137			I-455
U+18876	R0119	𠄎	B129	𠄎	1999	1127-B1	803-C3	686-04	𠄎	86B	𠄎	134			I-599
U+18877	R0120	𠄎				1127-B2	803-C4	686-08	𠄎						
U+18878	R0121	𠄎	B029	𠄎	2004	1127-B5	814-C1	686-13	𠄎	77B	𠄎	069			I-432
U+18879	R0122	𠄎								87E	𠄎				
U+1887A	R0123	𠄎											I-1	𠄎	
U+1887B	R0124	𠄎	B318	𠄎											
U+1887C	R0125	𠄎	B108	𠄎	2001		804-A1	686-05	𠄎						
U+1887D	R0126	𠄎								124	𠄎				
U+1887E	R0127	𠄎				1127-B4							C-3	𠄎	
U+1887F	R0128	𠄎											J-1	𠄎	
U+18880	R0129	𠄎	B031	𠄎											
U+18881	R0130	𠄎	D001	𠄎	2631	1127-C1	804-B1	686-15	𠄎	75A	𠄎	031			I-420
U+18882	R0131	𠄎	B308	𠄎											
U+18883	R0132	𠄎					804-A3					045			
U+18884	R0133	𠄎			2008	1127-B7		686-16	𠄎						
U+18885	R0134	𠄎	B079	𠄎	2037			686-14	𠄎						II-136
U+18886	R0135	𠄎	B006	𠄎	2645	1128-A1	804-B2	686-11	𠄎	75B	𠄎	250			II-138
U+18887	R0136	𠄎	B165	𠄎	2647	1128-A3	804-C1	686-09	𠄎	136B	𠄎	203	N-2	𠄎	

U+18888	R0137	彡	B149	彡						95A	彡		W-4	彡	
U+18889	R0138	彡			2659	1128-A2	804-B3	686-10	彡			183			II-243
U+1888A	R0139	彡													II-128
U+1888B	R0140	彡	B210	彡	2038	1128-B1	805-B1	686-20	彡	137	彡	204	R-1	彡	II-8
U+1888C	R0141	彡			2623	1134-C1	805-A2	686-19	彡						
U+1888D	R0142	彡	C016	彡	2597	1134-C2	805-A1	686-17	彡	147B	彡	276			
U+1888E	R0143	彡			2629	1135-A1 1135-B1	804-C2	686-18	彡						I-598
U+1888F	R0144	彡	B266	彡											
U+18890	R0145	彡	C021	彡	2678	1127-B6	804-A2	686-12	彡			283			
U+18891	R0146	彡	B012	彡											
U+18892	R0147	彡	B069	彡	2679	1112-B1	791-A3	681-08	彡			105			II-156
U+18893	R0148	彡			2708	1112-C1	791-B1	681-07	彡			270			
U+18894	R0149	彡				1136-A3		681-06	彡						II-274b
U+18895	R0150	彡	B153	彡	2710	1094-C1	793-A4	690-07	彡			191			II-272
U+18896	R0151	彡	B259	彡									E-3	彡	
U+18897	R0152	彡			2715										
U+18898	R0153	彡	B137	彡											
U+18899	R0154	彡					789-A2a	682-01	彡	77C	彡	088			
U+1889A	R0155	彡	B025	彡	2809	1114-C1		682-02	彡	78A	彡	087			
U+1889B	R0156	彡			2844	1115-A1	793-C2	681-11	彡			089			II-197
U+1889C	R0157	彡	B037	彡	2725	1112-C2	791-B2	681-14	彡			047			I-437
U+1889D	R0158	彡	B084	彡	2753	1113-B1	791-C1	681-13	彡						
U+1889E	R0159	彡	C005	彡	2756	1113-B2	791-C2	681-12	彡			269			I-443
U+1889F	R0160	彡	B204	彡	2847	1114-A3	793-A3	681-10	彡			207			I-454
U+188A0	R0161	彡			2883	1095-A1	793-C1	690-11	彡			188			II-269
U+188A1	R0162	彡	B011	彡	2716	1114-A1	792-B1a	681-03	彡			096			I-424
U+188A2	R0163	彡					792-C1 793-A1	681-04	彡			008			
U+188A3	R0164	彡	B010	彡			792-B1b								
U+188A4	R0165	彡			2850	1114-A2	793-A2	681-05	彡			013			I-425
U+188A5	R0166	彡	B158	彡	2856	1114-B1	793-B1	689-03	彡			194	V-4	彡	I-600a II-264 II-494
U+188A6	R0167	彡	B173	彡	3893	1112-A3	816-B5	690-10	彡			233	O-2	彡	II-235
U+188A7	R0168	彡	C013	彡											
U+188A8	R0169	彡			2892		799-B3	685-02	彡						
U+188A9	R0170	彡	B019	彡	2894							092			

U+188EF	R0240	𠂔	B332	𠂔						126	𠂔		I-3	𠂔	
U+188F0	R0241	𠂔	B246	𠂔		1145-C3				92C	𠂔	258			
U+188F1	R0242	𠂔			3494	1149-B2	827-C4	694-03	𠂔			060			
U+188F2	R0243	𠂔	B040	𠂔	3495	1149-B1	827-C3	694-04	𠂔						II-284a
U+188F3	R0244	𠂔	B058	𠂔											
U+188F4	R0245	𠂔											0-3	𠂔	
U+188F5	R0246	𠂔	B316	𠂔											
U+188F6	R0247	𠂔	B201	𠂔	3736	1149-A3	828-A2	695-02	𠂔	148C	𠂔	214	P-1 T-7	𠂔	II-238a
U+188F7	R0248	𠂔				1149-A1	827-C1								
U+188F8	R0249	𠂔	B100	𠂔	3504	1149-B3	826-B3	695-01	𠂔	87A	𠂔	144			
U+188F9	R0250	𠂔	B087	𠂔						86A	𠂔				
U+188FA	R0251	𠂔	B234 B237	𠂔	3739	1145-C5	813-B1	694-06	𠂔	148D	𠂔	211	U-1	𠂔	II-303a
U+188FB	R0252	𠂔	B166	𠂔									N-3	𠂔	
U+188FC	R0253	𠂔			3855	1149-A2	828-A1	694-05	𠂔						
U+188FD	R0254	𠂔			3609	[1148-B3]	811-C1	695-03	𠂔			205			II-262
U+188FE	R0255	𠂔	B211	𠂔	3651	1147-B1	812-B1	694-09	𠂔	147C	𠂔	210	R-3	𠂔	
U+188FF	R0256	𠂔				1148-B1	813-A1	694-08	𠂔			033			
U+18900	R0257	𠂔	B222	𠂔	3602	1148-B2	812-A1	695-04	𠂔	148A	𠂔	206	T-5	𠂔	II-322
U+18901	R0258	𠂔	B268	𠂔									E-8	𠂔	
U+18902	R0259	𠂔	B075	𠂔	3858	1135-C3	815-A1	690-08	𠂔			110			II-172
U+18903	R0260	𠂔			3881	1094-C2	817-A1	697-01	𠂔			192			II-448
U+18904	R0261	𠂔			3890	1136-A1	816-B2	690-09	𠂔			114			II-224
U+18905	R0262	𠂔	B302	𠂔											
U+18906	R0263	𠂔	B294	𠂔									G-4	𠂔	
U+18907	R0264	𠂔	B171	𠂔	4470	1135-C2	828-C1	697-03	𠂔				O-6	𠂔	II-452
U+18908	R0265	𠂔	B261	𠂔									E-6	𠂔	
U+18909	R0266	𠂔	B267	𠂔											
U+1890A	R0267	𠂔						694-02	𠂔						
U+1890B	R0268	𠂔			3062	1139-A1	817-B3	685-08	𠂔			071			I-453
U+1890C	R0269	𠂔	B080	𠂔											
U+1890D	R0270	𠂔	B291	𠂔											
U+1890E	R0271	𠂔			3990	1139-A2	817-B1	697-11	𠂔			196			II-302 II-425a
U+1890F	R0272	𠂔	B138	𠂔	3992	1138-B2	817-B5	690-12	𠂔	81E	𠂔	157			II-423a
U+18910	R0273	𠂔			4030							166			

U+18911	R0274	𦍋					816-B1					091			
U+18912	R0275	𦍌			3975	1137-A1	816-B3	690-14	𦍌			141			II-240
U+18913	R0276	𦍍	B309	𦍍											
U+18914	R0277	𦍎	B299	𦍎											
U+18915	R0278	𦍇	B245	𦍇	3979	1137-B1	816-B4	697-19	𦍇			260			II-418
U+18916	R0279	𦍈	B212	𦍈	4031	1137-C2	816-C2	690-15	𦍈	148B	𦍈	208	R-4 T-6	𦍈	II-296y
U+18917	R0280	𦍉	B024	𦍉	3914	1136-B2	815-B1	689-01	𦍉			099			II-301
U+18918	R0281	𦍊			3958	1138-B1	818-A1	690-02	𦍊			025			II-213
U+18919	R0282	𦍋			3957	1136-A4	815-B3	690-01	𦍋			101			
U+1891A	R0283	𦍌	B070	𦍌	3925	1136-B3	815-B4	689-04	𦍌	85A	𦍌	106			II-238b II-275
U+1891B	R0284	𦍍			3970	1137-B2	816-C1	690-03	𦍍			232			II-218
U+1891C	R0285	𦍎	B154	𦍎	3974	1136-B1	817-B4	695-05	𦍎			193			
U+1891D	R0286	𦍇											E-4	𦍇	
U+1891E	R0287	𦍈			3966	1137-A2	816-A2	689-02	𦍈						
U+1891F	R0288	𦍉										014			
U+18920	R0289	𦍊			4059	1136-C1	815-B2	690-06	𦍊			151			II-284c
U+18921	R0290	𦍋	B189	𦍋	4558	1137-B3	828-C2	690-05	𦍋			235			II-256
U+18922	R0291	𦍌	B039	𦍌	4063	1136-C2	816-A1	695-06	𦍌			056			II-397
U+18923	R0292	𦍍													II-403a
U+18924	R0293	𦍎	B162	𦍎											
U+18925	R0294	𦍇	B277	𦍇											
U+18926	R0295	𦍈	B218	𦍈	4504	1150-C6	828-B2	697-10	𦍈						
U+18927	R0296	𦍉			4085	1140-C5	823-C1	692-14	𦍉			065			
U+18928	R0297	𦍊	B020	𦍊	4089	[1140-C4]						066			II-216
U+18929	R0298	𦍋	B071	𦍋	4094	1140-B3	818-C2	692-17	𦍋			108			II-165
U+1892A	R0299	𦍌			4093	1140-C1	818-A5	692-16	𦍌	84	𦍌				II-263
U+1892B	R0300	𦍍			4119	1141-B1	820-B5 825-C1	698-17	𦍍						II-450
U+1892C	R0301	𦍎			4126	1140-C3	818-A4	693-04	𦍎						II-261b
U+1892D	R0302	𦍇					818-A3								
U+1892E	R0303	𦍈	B102 B104	𦍈	4129	1140-C2	818-C1	693-05	𦍈			116			II-222
U+1892F	R0304	𦍉	B305	𦍉											
U+18930	R0305	𦍊			4138	1141-C4	820-A4	693-06	𦍊			155			II-239a
U+18931	R0306	𦍋													II-239b
U+18932	R0307	𦍌	B298	𦍌									G-6	𦍌	

U+18979	R0378	𠃉			4414		835-A6								II-485
U+1897A	R0379	𠃊	B249 B252	𠃊	4416	1157-C1	835-B5	699-09	𠃊	93A	𠃊	259	R-2	𠃊	II-386
U+1897B	R0380	𠃋	B254	𠃋						127A	𠃋				
U+1897C	R0381	𠃌	C011	𠃌	4434	1157-B5	835-C1	699-08	𠃌			274			II-390
U+1897D	R0382	𠃍											G-8	𠃍	
U+1897E	R0383	𠃎													II-451a
U+1897F	R0384	𠃏	B060	𠃏	4436	1158-C4	836-1	699-10	𠃏			175			II-451b
U+18980	R0385	𠃐											J-5	𠃐	
U+18981	R0386	𠃑											S-3	𠃑	
U+18982	R0387	𠃒											F-6	𠃒	
U+18983	R0388	𠃓											P-9	𠃓	
U+18984	R0389	𠃔			4458	1158-C2	835-C2	699-11	𠃔						II-429c
U+18985	R0390	𠃕	B314	𠃕									H-10	𠃕	
U+18986	R0391	𠃖	B008	𠃖	4459		836-A1					251			II-489b
U+18987	R0392	𠃗	B205 B207	𠃗	4460	1157-C2	835-C3	699-12	𠃗	150C	𠃗	215			II-303b II-410
U+18988	R0393	𠃘	B235	𠃘											
U+18989	R0394	𠃙			4442	1158-B1	836-A4	699-15	𠃙						
U+1898A	R0395	𠃚										150			
U+1898B	R0396	𠃛			4446	1158-B2		699-14	𠃛						II-444b
U+1898C	R0397	𠃜	B244	𠃜	5082	1158-A2	836-A5	699-16	𠃜			243			II-467
U+1898D	R0398	𠃝	B239	𠃝	4447	1158-A1	836-A2	699-17	𠃝	150A	𠃝	217			II-407
U+1898E	R0399	𠃞													II-429b
U+1898F	R0400	𠃟	B202	𠃟									P-7	𠃟	
U+18990	R0401	𠃠	B098	𠃠	4469	1150-C5	828-A6					119			II-429a
U+18991	R0402	𠃡	B295	𠃡											
U+18992	R0403	𠃢	B013	𠃢	4477	1150-C1	828-A7	697-02	𠃢			314			II-459
U+18993	R0404	𠃣			4485	1150-C4	828-A3	697-06	𠃣						II-424
U+18994	R0405	𠃤	B174	𠃤	4486	1102-A1	828-B1	697-08	𠃤			246	Q-2	𠃤	II-472
U+18995	R0406	𠃥			4498	1150-C2	828-A4	697-05	𠃥			125			II-427
U+18996	R0407	𠃦	B321	𠃦											
U+18997	R0408	𠃧	B110	𠃧	4503	1150-C3	828-A5	697-04	𠃧			126			II-420b
U+18998	R0409	𠃨											J-4	𠃨	
U+18999	R0410	𠃩	C018	𠃩	5134	1102-A2 1151-A1	817-B2	697-07	𠃩			286			II-462
U+1899A	R0411	𠃪			4509	1136-A2	828-B3	697-09	𠃪						
U+1899B	R0412	𠃫										234	S-2	𠃫	II-446b

U+1899C	R0413	𦵑														II-454b
U+1899D	R0414	𦵒			4224	1155-A1	833-A3	693-10	𦵓			072				II-241
U+1899E	R0415	𦵔			4634	1154-C1b	833-A1b	697-14	𦵕			142				
U+1899F	R0416	𦵖	B311	𦵗		1154-C1a	833-A1a									II-497b
U+189A0	R0417	𦵙	B209	𦵚												
U+189A1	R0418	𦵛	B140	𦵜												
U+189A2	R0419	𦵞	B081	𦵟	4517	1154-B1a	832-C1a	697-13	𦵠			139				II-391
U+189A3	R0420	𦵡				1154-B1b	832-C1b	697-12	𦵢			281				II-396
U+189A4	R0421	𦵤	B157	𦵥	4510	1095-A2	832-B1	700-09	𦵦			189				II-521
U+189A5	R0422	𦵨	B044	𦵩	4589	1151-B2	831-C5	697-16	𦵪			078				II-484
U+189A6	R0423	𦵬	B167	𦵭	4597	1154-A1	831-A1	697-20	𦵮	135C	𦵯	241	Q-1	𦵰		II-477
U+189A7	R0424	𦵲	C015	𦵳	4633		831-C1									
U+189A8	R0425	𦵵			4639		832-B2	697-18	𦵷			145				
U+189A9	R0426	𦵹	B123	𦵺	4640	1151-A4	832-B3b	697-17	𦵼							II-490
U+189AA	R0427	𦵽	C006	𦵾			832-B3a									
U+189AB	R0428	𦵿	B323	𦶀												
U+189AC	R0429	𦶂	B238	𦶃	4873	1151-C1	832-A2	698-01	𦶄	150B	𦶅	212				
U+189AD	R0430	𦶇			4650	1095-A3	832-A1	698-02	𦶈			209				II-385
U+189AE	R0431	𦶊	B076	𦶋												
U+189AF	R0432	𦶍	B271	𦶎												
U+189B0	R0433	𦶐	B097	𦶑	4544	1151-A2	832-A3	696-02	𦶒			115				II-426a
U+189B1	R0434	𦶔	B303	𦶕									H-5	𦶖		
U+189B2	R0435	𦶘	B063	𦶙	4551	1154-C2	833-A2	696-03	𦶚			176				
U+189B3	R0436	𦶜	B296	𦶝									G-5	𦶞		
U+189B4	R0437	𦶟	B139	𦶠				696-01	𦶡							
U+189B5	R0438	𦶣	B175	𦶤				690-04	𦶥	134	𦶦		O-4	𦶧		
U+189B6	R0439	𦶨											V-7	𦶩		
U+189B7	R0440	𦶬	B269	𦶭						111	𦶮		E-7	𦶯		
U+189B8	R0441	𦶱	B093	𦶲	4658	1151-B1	832-B4	696-04	𦶳			111				II-403b
U+189B9	R0442	𦶶			4674	1155-A2	831-C2	696-05	𦶷			027				II-463
U+189BA	R0443	𦶺					831-C4									
U+189BB	R0444	𦶾			4858	1151-A3	832-A4	696-06	𦶿			152				II-486
U+189BC	R0445	𦷀	B310	𦷁									H-6	𦷂		
U+189BD	R0446	𦷄														II-572
U+189BE	R0447	𦷈	B225	𦷉	4687	1151-C2	829-A1	696-08	𦷊	144	𦷋	236				II-361

U+189BF	R0448	𠄎			4875	1157-A5	833-C1	698-16	𠄎			067			II-460
U+189C0	R0449	𠄏										022			
U+189C1	R0450	𠄐			4886	1156-A2		698-19	𠄐						
U+189C2	R0451	𠄑	B061	𠄑											
U+189C3	R0452	𠄒				1155-C7	834-C3					240			II-428b
U+189C4	R0453	𠄓	B279	𠄓											
U+189C5	R0454	𠄔	B307	𠄔											
U+189C6	R0455	𠄕	B185	𠄕	4888	1157-A6	834-C1	698-25	𠄕			249			II-475
U+189C7	R0456	𠄖			4891	1156-C2	833-B4								
U+189C8	R0457	𠄗			4892										II-420a
U+189C9	R0458	𠄘	B116	𠄘	4893	1156-C3	833-B5	698-22	𠄘	90A	𠄘	128			
U+189CA	R0459	𠄙	B322	𠄙											
U+189CB	R0460	𠄚	C008	𠄚											
U+189CC	R0461	𠄛			4915										
U+189CD	R0462	𠄜	B181	𠄜	4916	1157-A4	834-C2								
U+189CE	R0463	𠄝	B226	𠄝	4900	1156-A1	835-A1	698-26	𠄝	143A	𠄝		S-5	𠄝	II-446a
U+189CF	R0464	𠄞	C017	𠄞	4911		835-A2					277			
U+189D0	R0465	𠄟			4917	1156-C1	833-C2	698-21	𠄟						II-454a
U+189D1	R0466	𠄠	B220	𠄠	5302	1161-A5	839-C2								
U+189D2	R0467	𠄡	B283	𠄡									F-5	𠄡	
U+189D3	R0468	𠄢			4966	1157-A2	834-A2	698-18	𠄢						II-497a
U+189D4	R0469	𠄣			4918	1156-B2	834-A3	698-24	𠄣						II-455
U+189D5	R0470	𠄤													II-547
U+189D6	R0471	𠄥											V-5	𠄥	
U+189D7	R0472	𠄦	B197	𠄦	4946	1155-C5	835-A4								
U+189D8	R0473	𠄧	B046	𠄧	4947	1157-A1	833-C6	698-28	𠄧			081			II-482
U+189D9	R0474	𠄨	B206	𠄨											
U+189DA	R0475	𠄩						699-02	𠄩						
U+189DB	R0476	𠄪													II-622a
U+189DC	R0477	𠄫			4969	1156-B1	842-A3					168			
U+189DD	R0478	𠄬	B142	𠄬	4971							164			
U+189DE	R0479	𠄭	B028	𠄭											
U+189DF	R0480	𠄮													II-609
U+189E0	R0481	𠄯	B227	𠄯	4983	1161-B4	835-A5								
U+189E1	R0482	𠄰	B089	𠄰	4979			698-15	𠄰						II-501

U+189E2	R0483	𦍋			4984	1157-A3	834-A1	698-27	𦍋						II-566
U+189E3	R0484	𦍌			4988	1158-C3	836-C2	699-01	𦍌			160			II-613b
U+189E4	R0485	𦍍	B032	𦍍	4990	1158-C5		697-15	𦍍	77A	𦍍	061			
U+189E5	R0486	𦍎			5009										
U+189E6	R0487	𦍇	B134	𦍇											
U+189E7	R0488	𦍈			5012	1161-C3	841-B1	700-19	𦍈			131			II-576b
U+189E8	R0489	𦍉	B334	𦍉											
U+189E9	R0490	𦍊	B101	𦍊	5013	1161-C2		700-18	𦍊						II-519
U+189EA	R0491	𦍋			5015		841-A5	700-25	𦍋						II-560
U+189EB	R0492	𦍌	B312	𦍌									H-8	𦍌	
U+189EC	R0493	𦍍											0-8	𦍍	
U+189ED	R0494	𦍎	B264	𦍎											
U+189EE	R0495	𦍇					841-A1								
U+189EF	R0496	𦍈			5016	1162-B5	841-A4	700-23	𦍈						II-526
U+189F0	R0497	𦍉	B194	𦍉											
U+189F1	R0498	𦍊	B253	𦍊	5017	1162-A1	840-C4	700-24	𦍊			261			II-505
U+189F2	R0499	𦍋	B107	𦍋	5031	1120-C1	842-A5	700-22	𦍋			256			II-524
U+189F3	R0500	𦍌	B317	𦍌									H-9	𦍌	
U+189F4	R0501	𦍍											T-1	𦍍	
U+189F5	R0502	𦍎			5046	1161-C4	839-B1	700-26	𦍎			254			II-577c
U+189F6	R0503	𦍇	B009	𦍇	5049	1162-B2	839-B2	701-01	𦍇			253			II-580c
U+189F7	R0504	𦍈			5051	1161-C5	839-B3	700-27	𦍈			226			II-539
U+189F8	R0505	𦍉			5045		841-A2								
U+189F9	R0506	𦍊			5072	1161-C1	841-B5	700-16	𦍊						
U+189FA	R0507	𦍋			5073	1161-B6 1162-B3	842-A1	700-21	𦍋						II-598b
U+189FB	R0508	𦍌	B062	𦍌	5076	1162-B4	841-C3	700-20	𦍌			179			II-589
U+189FC	R0509	𦍍			5081		842-A6	702-01	𦍍						II-574c
U+189FD	R0510	𦍎											H-7	𦍎	
U+189FE	R0511	𦍇	B094	𦍇											
U+189FF	R0512	𦍈	B120	𦍈											
U+18A00	R0513	𦍉			5131	1163-C4	842-B2	702-02	𦍉			311			II-561
U+18A01	R0514	𦍊			5119	1163-C3	842-B1	702-03	𦍊	151	𦍊	216	U-4	𦍊	II-542
U+18A02	R0515	𦍋	B208	𦍋	5133										
U+18A03	R0516	𦍌											U-7	𦍌	

U+18A04	R0517	𪗇	B172	𪗇											
U+18A05	R0518	𪗈			5137	1159-A1	836-C3	700-04	𪗈						II-563b
U+18A06	R0519	𪗉			5138	1102-A3	836-C4	700-06	𪗉			247b			II-579
U+18A07	R0520	𪗊	B335	𪗊									I-5	𪗊	
U+18A08	R0521	𪗋			5143	1102-A4		700-05	𪗋			247			
U+18A09	R0522	𪗌			5144			700-07	𪗌						II-548
U+18A0A	R0523	𪗍			4955	1160-C3	838-A2	701-23	𪗍			197			II-619
U+18A0B	R0524	𪗎	B117	𪗎	5198	1160-C1	839-A4	700-08	𪗎	90B	𪗎	146			II-509
U+18A0C	R0525	𪗏			5212		839-A2					165			
U+18A0D	R0526	𪗐	B141	𪗐	5213	1161-A1	839-A3	700-11	𪗐	87D	𪗐	158			II-608
U+18A0E	R0527	𪗑	B262	𪗑											
U+18A0F	R0528	𪗒					837-B2								
U+18A10	R0529	𪗓	B112	𪗓	5171	1159-A3		700-10	𪗓			147			II-575
U+18A11	R0530	𪗔													II-596b
U+18A12	R0531	𪗕	B047	𪗕	5193	1159-A5	837-A3	700-12	𪗕			079			II-549b
U+18A13	R0532	𪗖			5196										
U+18A14	R0533	𪗗	B223	𪗗	5206			700-13	𪗗	147A	𪗗	242			II-578
U+18A15	R0534	𪗘	B338	𪗘									I-8	𪗘	
U+18A16	R0535	𪗙			5216	1095-B3		700-15	𪗙			213			
U+18A17	R0536	𪗚			5217	1095-A4									II-523
U+18A18	R0537	𪗛			5218	1095-B2		700-14	𪗛						II-576c
U+18A19	R0538	𪗜	B275	𪗜											
U+18A1A	R0539	𪗝	B059	𪗝	5156	1159-C4	837-C2	699-18	𪗝			177			II-520a
U+18A1B	R0540	𪗞										178			II-413
U+18A1C	R0541	𪗟			5157	1159-B4	836-C5	699-20	𪗟						
U+18A1D	R0542	𪗠			5159	1159-C7	837-A1	699-21	𪗠						
U+18A1E	R0543	𪗡	B082	𪗡	5146	1160-C2	839-A1	699-22	𪗡	85B	𪗡	140			II-517
U+18A1F	R0544	𪗢	B304	𪗢											
U+18A20	R0545	𪗣	B297	𪗣											
U+18A21	R0546	𪗤	B176 B177	𪗤	5161	1159-B5	837-A2	699-24	𪗤			248	Q-3	𪗤	II-573
U+18A22	R0547	𪗥			5170	1159-A2		699-23	𪗥			127			
U+18A23	R0548	𪗦													II-592
U+18A24	R0549	𪗧	B221	𪗧									S-8	𪗧	
U+18A25	R0550	𪗨				1155-B1		696-07	𪗨			030			II-463
U+18A26	R0551	𪗩	B284	𪗩									F-4	𪗩	

U+18A27	R0552	𪛑			5175	1159-C2	838-A1	699-19	𪛑		284			II-520b II-577b
U+18A28	R0553	𪛒										I-7	𪛒	
U+18A29	R0554	𪛓			5176	1159-C5		699-27	𪛓					II-563a
U+18A2A	R0555	𪛔					837-B5							
U+18A2B	R0556	𪛕	B241	𪛕				699-28	𪛕		015			II-574b
U+18A2C	R0557	𪛖	B105	𪛖	5177	1159-C6	837-B4	699-29	𪛖		120			
U+18A2D	R0558	𪛗			5178	1159-C8	837-C4	702-16	𪛗		264			II-596a
U+18A2E	R0559	𪛘			5179	[1153-C1]	837-C6	700-01	𪛘		238			II-567
U+18A2F	R0560	𪛙			5219	1159-B1	837-B1	699-25	𪛙		062			II-545
U+18A30	R0561	𪛚			5221	1159-C9 1160-B1	838-A3 838-C1	699-30	𪛚		028			II-527
U+18A31	R0562	𪛛	A005	𪛛										
U+18A32	R0563	𪛜												II-546
U+18A33	R0564	𪛝	B042	𪛝	5270	1159-B2	837-A4	700-02	𪛝		083			II-570
U+18A34	R0565	𪛞	B122	𪛞	5282	1159-A4	837-B3	700-03	𪛞		153			II-552
U+18A35	R0566	𪛟			5511	1164-C2	837-C5				237			II-614a
U+18A36	R0567	𪛠			5288	1159-C3	837-C3				064			II-617
U+18A37	R0568	𪛡			5289	1159-B3	831-C3	699-26	𪛡		172			II-615b
U+18A38	R0569	𪛢			5291	1163-C1	841-B4	701-10	𪛢					II-538
U+18A39	R0570	𪛣	B170	𪛣										
U+18A3A	R0571	𪛤						701-09	𪛤					
U+18A3B	R0572	𪛥			5293	1161-A2	841-B3							
U+18A3C	R0573	𪛦			5294	1161-A3	841-B2	701-08	𪛦		132			II-564
U+18A3D	R0574	𪛧						701-11	𪛧			S-7	𪛧	II-549a
U+18A3E	R0575	𪛨												II-576a
U+18A3F	R0576	𪛩	B341	𪛩										
U+18A40	R0577	𪛪			5303			701-21	𪛪					II-574a
U+18A41	R0578	𪛫			5304	1161-B1	839-C1	701-20	𪛫		229	U-2	𪛫	II-544
U+18A42	R0579	𪛬												II-615a
U+18A43	R0580	𪛭			5311		840-C1	701-07	𪛭					II-605b
U+18A44	R0581	𪛮			5308		840-C2	701-05	𪛮					II-550a
U+18A45	R0582	𪛯			5546		840-B1	701-06	𪛯					
U+18A46	R0583	𪛰			5319	1161-A4	841-A6	701-12	𪛰		118			II-513
U+18A47	R0584	𪛱	B066	𪛱	5325	1163-C2	840-C3	701-13	𪛱		156			II-515
U+18A48	R0585	𪛲	B285	𪛲						114	𪛲	285		
U+18A49	R0586	𪛳	C024	𪛳	5314	1161-B2	841-B6	701-14	𪛳					II-511

U+18A4A	R0587	𠂇			5333	1162-B6	841-B7	701-15	𠂇			296			II-522
U+18A4B	R0588	𠂈	B072	𠂈	5342	1162-C1	841-C1	701-16	𠂈			289			II-536
U+18A4C	R0589	𠂉						701-18	𠂉				P-2	𠂉	
U+18A4D	R0590	𠂊			5549	1164-C5	840-B2					301			II-633
U+18A4E	R0591	𠂋	B214	𠂋	5351	1162-C3	839-C3	701-19	𠂋	143B	𠂋	297			
U+18A4F	R0592	𠂌	C004	𠂌				701-17	𠂌						
U+18A50	R0593	𠂍										292			
U+18A51	R0594	𠂎	B048	𠂎	5416	1163-B1	841-A3	701-22	𠂎			082			
U+18A52	R0595	𠂏			5420										
U+18A53	R0596	𠂐	B250	𠂐											
U+18A54	R0597	𠂑	B054	𠂑	5422	1161-B3	841-C2	701-04	𠂑	81B	𠂑	170			II-581
U+18A55	R0598	𠂒	B136 B144	𠂒	5428	1161-B7 1162-B1	842-A2	701-03	𠂒	87C	𠂒	162			II-611
U+18A56	R0599	𠂓				1164-C6 1165-A4									
U+18A57	R0600	𠂔			5439	1161-B5		701-02	𠂔						II-607a
U+18A58	R0601	𠂕	B327	𠂕											
U+18A59	R0602	𠂖											S-10	𠂖	
U+18A5A	R0603	𠂗	B073	𠂗											
U+18A5B	R0604	𠂘			5441			702-27	𠂘						II-618a
U+18A5C	R0605	𠂙			5445	1165-A3	843-B3	702-28	𠂙				0-9	𠂙	II-585a
U+18A5D	R0606	𠂚			5450	1165-A1		702-29	𠂚			228			II-599b
U+18A5E	R0607	𠂛			5458		844-A3	702-33	𠂛						II-601a
U+18A5F	R0608	𠂜	B265	𠂜											
U+18A60	R0609	𠂝	B216	𠂝	5451			702-36	𠂝			017e			II-606
U+18A61	R0610	𠂞			5453			702-34	𠂞						
U+18A62	R0611	𠂟			5454			703-16	𠂟						II-631b
U+18A63	R0612	𠂠			5457			702-35	𠂠						II-593b
U+18A64	R0613	𠂡			5462			702-30	𠂡						II-598a
U+18A65	R0614	𠂢			5459	1165-A5	844-A1	702-31	𠂢			308			II-582
U+18A66	R0615	𠂣			5599	1165-C5	843-B8	703-14	𠂣			304			
U+18A67	R0616	𠂤	B190	𠂤											
U+18A68	R0617	𠂥			5463										II-601b
U+18A69	R0618	𠂦			5465	1165-A6	843-B6	702-32	𠂦			262			II-586
U+18A6A	R0619	𠂧			5467										
U+18A6B	R0620	𠂨			5468	1121-A1									II-595a
U+18A6C	R0621	𠂩			5471		843-A9	702-37	𠂩						

U+18A90	R0657	𪗇			5512	1164-B10	843-A4	702-05	𪗇						
U+18A91	R0658	𪗈			5648	1164-B3	842-C8	702-04	𪗈						II-616
U+18A92	R0659	𪗉			5529	1164-B1	842-C4	702-14	𪗉			121			II-621a
U+18A93	R0660	𪗊			5525	1164-B6	843-A2	702-17	𪗊				Q-4	𪗊	II-577a
U+18A94	R0661	𪗋					842-C3								II-584
U+18A95	R0662	𪗌			5531	1164-B5		702-15	𪗌			129			
U+18A96	R0663	𪗍			5532	1164-B2	842-C6	702-18	𪗍			318			II-607b
U+18A97	R0664	𪗎				1164-A3	842-C2								
U+18A98	R0665	𪗏			5534		842-C1	702-13	𪗏						II-595b
U+18A99	R0666	𪗐					843-A6								
U+18A9A	R0667	𪗑	B198	𪗑	5526	1164-A4	843-A3					298			
U+18A9B	R0668	𪗒				1164-A5							P-5	𪗒	
U+18A9C	R0669	𪗓			5541	1164-C8	843-B5	702-42	𪗓						
U+18A9D	R0670	𪗔										316			
U+18A9E	R0671	𪗕			5544	1164-C9	843-B4	702-40	𪗕						II-620a
U+18A9F	R0672	𪗖						702-41	𪗖						
U+18AA0	R0673	𪗗													II-646b
U+18AA1	R0674	𪗘	B077	𪗘											
U+18AA2	R0675	𪗙					844-A2								
U+18AA3	R0676	𪗚			5553										
U+18AA4	R0677	𪗛	B324	𪗛											
U+18AA5	R0678	𪗜											W-6	𪗜	
U+18AA6	R0679	𪗝			5558	1164-C7		702-47	𪗝						
U+18AA7	R0680	𪗞													II-551
U+18AA8	R0681	𪗟			5561		843-B2	702-43	𪗟			287			II-602
U+18AA9	R0682	𪗠			5571			702-45	𪗠			273			II-621b
U+18AAA	R0683	𪗡			5547			703-25	𪗡						
U+18AAB	R0684	𪗢						702-44	𪗢						
U+18AAC	R0685	𪗣			5557	1162-C2		702-46	𪗣			293			II-593a
U+18AAD	R0686	𪗤			5572	1164-C4	844-A4	702-48	𪗤						
U+18AAE	R0687	𪗥													II-612a
U+18AAF	R0688	𪗦	B090	𪗦	5574			702-39	𪗦						II-623b
U+18AB0	R0689	𪗧	B213	𪗧									S-9?	𪗧	
U+18AB1	R0690	𪗨			5576	1135-C1		702-49	𪗨			159b			II-650

U+18AF8	R0761	麥	B200	麥		1165-C1	844-B3								
U+18AF9	R0762	麥						703-35	麥			235b			II-655a
U+18AFA	R0763	麥			5729			704-04	麥						
U+18AFB	R0764	麥			5727			704-05	麥			317			
U+18AFC	R0765	麥			5731			704-02	麥						II-656
U+18AFD	R0766	麥			5733			704-03	麥						II-649a
U+18AFE	R0767	麥			5734			704-01	麥						II-648a
U+18AFF	R0768	麥			5735			703-46	麥						II-652b II-645
U+18B00	R0769	麥													II-666b
U+18B01	R0770	麥			5763			704-13	麥						
U+18B02	R0771	麥						703-11	麥						II-662b
U+18B03	R0772	麥			5749	1166-C3	845-B4	704-14	麥						II-651b
U+18B04	R0773	麥			5738			704-08	麥						
U+18B05	R0774	麥			5742			704-09	麥						II-654
U+18B06	R0775	麥			5745			704-10	麥						
U+18B07	R0776	麥			5747			704-07	麥						
U+18B08	R0777	麥										295			
U+18B09	R0778	麥			5752										
U+18B0A	R0779	麥			5753			704-11	麥			307			II-652a
U+18B0B	R0780	麥				1166-C2	845-B3								
U+18B0C	R0781	麥			5755			704-12	麥						
U+18B0D	R0782	麥			5757	1094-C3		704-06	麥						II-658a
U+18B0E	R0783	麥			5758	1137-C1									
U+18B0F	R0784	麥	B229	麥									P-6	麥	
U+18B10	R0785	麥			5761			704-15	麥						
U+18B11	R0786	麥													II-657a
U+18B12	R0787	麥			5764	1166-C5	845-B5	704-19	麥			267			II-665b
U+18B13	R0788	麥			5766	1102-B2		704-18	麥						II-661b
U+18B14	R0789	麥			5768										
U+18B15	R0790	麥	B344	麥		1166-C1									
U+18B16	R0791	麥	C010	麥				704-17	麥						II-655b
U+18B17	R0792	麥			5771			704-16	麥						II-666a
U+18B18	R0793	麥			5773	1166-C4		704-20	麥						II-658b
U+18B19	R0794	麥			5776			704-21	麥						II-661a
U+18B1A	R0795	麥			5778		845-B6	704-23	麥			313			II-659c

U+18B1B	R0796	𪛗													II-659a
U+18B1C	R0797	𪛘			5780			704-22	𪛙						
U+18B1D	R0798	𪛚			5781										
U+18B1E	R0799	𪛛													II-665a
U+18B1F	R0800	𪛜	B247	𪛜											
U+18B20	R0801	𪛝													II-662a
U+18B21	R0802	𪛞			5782	1166-C6		704-24	𪛟						II-660