

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

**Doc Type: Working Group Document****Title: Preliminary proposal for encoding the Old Bamum script in the SMP of the UCS****Source: Michael Everson, Chuck Riley, Konrad Tuchscherer****Status: Individual Contribution****Action: For consideration by JTC1/SC2/WG2 and UTC****Date: 2008-06-01**

This is a preliminary proposal to encode the Old Bamum script in the SMP of the UCS.

**0. Introduction.** Bamum is spoken by about 215,000 people living in Cameroon, chiefly in West Province, most of Noun Division around Foumban, as well as in the extreme north of Mifi Division and in the southeast of Bamboutos Division. It is a Benue-Congo language of the Grassfields branch. The Bamum script was devised in c. 1896 by Sultan Njoya and his scribes. The traditional Bamum corpus consists of many hundreds of manuscripts, chiefly of history texts, treatises on traditional medicine, local cartography, personal correspondence, and illustrated folktales.

**1. Structure.** The modern Bamum script is a left-to-right script containing 80 base characters, two combining diacritics, and six punctuation marks. Old Bamum characters have the same right-to-left directionality. The modern script represents the final phase, Phase G, of the development of the script. Phase A comprised the largest set of characters, many ideographic. Through successive the script developed through five more phases (B, C, D, E, F), gradually simplifying by removing characters and by re-assigning the values of some characters to positions in the evolving syllabary. Significant glyph differences—significant enough to disunify—are easy to identify when the different phases are examined together. In general, flipping and rotation are not considered “significant” though there are a few exceptions where a rotated glyph becomes used with a different value where a disunification has been made. The glyphs in the chart reflect the earliest example of a character; mostly, therefore, the glyphs are taken from Phase A.

**2. Character names.** Characters are ranged according to the last Phase in which they appear, and the element PHASE-X is inserted; this insures that PHASE-B KET and PHASE-C KET have unique names. The transcription used in the character names follows the IPA forms given in Dugast and Jeffreys 1950. The following conventions are used:

Dugast	a	b	d	ɛ	e	ə	f	ɣ	g	i	k	l	m	n	ŋ	ɔ
English	<i>a</i>	<i>b</i>	<i>d</i>	<i>e</i>	<i>ee</i>	<i>ae</i>	<i>f</i>	<i>gh</i>	<i>g</i>	<i>i</i>	<i>k</i>	<i>l</i>	<i>m</i>	<i>n</i>	<i>ng</i>	<i>o</i>
French	<i>a</i>	<i>b</i>	<i>d</i>	<i>è</i>	<i>é</i>	<i>e</i>	<i>f</i>	<i>gh</i>	<i>g</i>	<i>i</i>	<i>k</i>	<i>l</i>	<i>m</i>	<i>n</i>	<i>ng</i>	<i>o</i>

Dugast	p	r	s	ʃ	t	u	ü	ɯ	v	w	x	y	z	ʒ	ʔ
English	<i>p</i>	<i>r</i>	<i>s</i>	<i>sh</i>	<i>t</i>	<i>u</i>	<i>ue</i>	<i>eu</i>	<i>v</i>	<i>w</i>	<i>x</i>	<i>y</i>	<i>z</i>	<i>j</i>	<i>q</i>
French	<i>p</i>	<i>r</i>	<i>s</i>	<i>sh</i>	<i>t</i>	<i>u</i>	<i>ü</i>	<i>ù</i>	<i>v</i>	<i>w</i>	<i>x</i>	<i>y</i>	<i>z</i>	<i>j</i>	<i>'</i>

**3. Linebreaking.** Letters and digits behave as in Modern Bamum, Canadian Syllabics, Latin, and so on.

**4. Collating order.** In this draft, the characters are ordered as they are in Dugast & Jeffreys 1950 (though divided amongst the six Phases A through F). Since the names of all of these characters can be represented now in the modern syllabary, experts in the user community will write out the names on that basis and they will be reorganized accordingly (still within the six Phases).

## **5. Unicode Character Properties.**

```
16800;BAMUM LETTER PHASE-A NGKUE MFON;Lo;0;L;;;;;N;;;;;
..
16A38;BAMUM LETTER PHASE-F VUEQ;Lo;0;L;;;;;N;;;;;
```

## **6. Bibliography.**

Dugast, J. & M. D. W. Jeffreys. 1950. *L'écriture des bamum: sa naissance, son evolution, sa valeur phonétique, son utilisation*. Mémoires de l'Institut Français d'Afrique Noire, Centre du Cameroun.

Schmitt, Alfred. 1963. *Die Bamum-Schrift*. Band I: Text. Wiesbaden: Otto Harrassowitz.

## **7. Acknowledgements**

This project was made possible in part by invaluable support from the Bamum Scripts and Archives Project in the Palace of Bamum Kings, Foumban, Cameroon, as well as by support from HRAF, the Human Relations Area Files, Inc. at Yale University, New Haven. This project was made possible in part by a grant from the U.S. National Endowment for the Humanities, which funded the Universal Scripts Project (part of the Script Encoding Initiative at UC Berkeley).

## A. Administrative

1. Title

**Preliminary proposal for encoding the Old Bamum script in the SMP of the UCS**

2. Requester's name

**Michael Everson, Charles Riley, Konrad Tuchscherer**

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

**Individual contribution.**

4. Submission date

**2008-06-01**

5. Requester's reference (if applicable)

6. Choose one of the following:

6a. This is a complete proposal

**No.**

6b. More information will be provided later

**Yes.**

## B. Technical – General

1. Choose one of the following:

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

**Yes.**

1b. Proposed name of script

**Old Bamum.**

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

**No.**

1d. Name of the existing block

2. Number of characters in proposal

**596.**

3. Proposed category (A-Contemporary; B.1-Specialized (small collection); B.2-Specialized (large collection); C-Major extinct; D-Attested extinct; E-Minor extinct; F-Archaic Hieroglyphic or Ideographic; G-Obscure or questionable usage symbols)

**Category B.2.**

4a. Is a repertoire including character names provided?

**Yes.**

4b. If YES, are the names in accordance with the "character naming guidelines" in Annex L of P&P document?

**Yes.**

4c. Are the character shapes attached in a legible form suitable for review?

**Yes.**

5a. Who will provide the appropriate computerized font (ordered preference: True Type, or PostScript format) for publishing the standard?

**Jason Glavy and Michael Everson.**

5b. If available now, identify source(s) for the font (include address, e-mail, ftp-site, etc.) and indicate the tools used:

**Michael Everson, Fontographer.**

6a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?

**Yes.**

6b. Are published examples of use (such as samples from newspapers, magazines, or other sources) of proposed characters attached?

**Yes.**

7. 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.**

8. 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.

**See above.**

## 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?

**Experts in Foumban, Cameroon.**

2c. If YES, available relevant documents

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

**People living in and near Foumban, Cameroon.**

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

**Rare.**

4b. Reference

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

**Yes.**

5b. If YES, where?

**In historical documents.**

6a. After giving due considerations to the principles in the P&P 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?

**Only superficially.**

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

11d. Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided?

**No.**

11e. If YES, reference

12a. Does the proposal contain characters with any special properties such as control function or similar semantics?










































































































**No.**

































































































































































































12b. If YES, describe in detail (include attachment if necessary)

13a. Does the proposal contain any Ideographic compatibility character(s)?

**No.**

13b. If YES, is the equivalent corresponding unified ideographic character(s) identified?

	1680	1681	1682	1683	1684	1685	1686	1687	1688	1689	168A	168B
0	 16800	 16810	 16820	 16830	 16840	 16850	 16860	 16870	 16880	 16890	 168A0	 168B0
1	 16801	 16811	 16821	 16831	 16841	 16851	 16861	 16871	 16881	 16891	 168A1	 168B1
2	 16802	 16812	 16822	 16832	 16842	 16852	 16862	 16872	 16882	 16892	 168A2	 168B2
3	 16803	 16813	 16823	 16833	 16843	 16853	 16863	 16873	 16883	 16893	 168A3	 168B3
4	 16804	 16814	 16824	 16834	 16844	 16854	 16864	 16874	 16884	 16894	 168A4	 168B4
5	 16805	 16815	 16825	 16835	 16845	 16855	 16865	 16875	 16885	 16895	 168A5	 168B5
6	 16806	 16816	 16826	 16836	 16846	 16856	 16866	 16876	 16886	 16896	 168A6	 168B6
7	 16807	 16817	 16827	 16837	 16847	 16857	 16867	 16877	 16887	 16897	 168A7	 168B7
8	 16808	 16818	 16828	 16838	 16848	 16858	 16868	 16878	 16888	 16898	 168A8	 168B8
9	 16809	 16819	 16829	 16839	 16849	 16859	 16869	 16879	 16889	 16899	 168A9	 168B9
A	 1680A	 1681A	 1682A	 1683A	 1684A	 1685A	 1686A	 1687A	 1688A	 1689A	 168AA	 168BA
B	 1680B	 1681B	 1682B	 1683B	 1684B	 1685B	 1686B	 1687B	 1688B	 1689B	 168AB	 168BB
C	 1680C	 1681C	 1682C	 1683C	 1684C	 1685C	 1686C	 1687C	 1688C	 1689C	 168AC	 168BC
D	 1680D	 1681D	 1682D	 1683D	 1684D	 1685D	 1686D	 1687D	 1688D	 1689D	 168AD	 168BD
E	 1680E	 1681E	 1682E	 1683E	 1684E	 1685E	 1686E	 1687E	 1688E	 1689E	 168AE	 168BE
F	 1680F	 1681F	 1682F	 1683F	 1684F	 1685F	 1686F	 1687F	 1688F	 1689F	 168AF	 168BF

	168C	168D	168E	168F	1690	1691	1692	1693	1694	1695	1696	1697
0	 168C0	 168D0	 168E0	 168F0	 16900	 16910	 16920	 16930	 16940	 16950	 16960	 16970
1	 168C1	 168D1	 168E1	 168F1	 16901	 16911	 16921	 16931	 16941	 16951	 16961	 16971
2	 168C2	 168D2	 168E2	 168F2	 16902	 16912	 16922	 16932	 16942	 16952	 16962	 16972
3	 168C3	 168D3	 168E3	 168F3	 16903	 16913	 16923	 16933	 16943	 16953	 16963	 16973
4	 168C4	 168D4	 168E4	 168F4	 16904	 16914	 16924	 16934	 16944	 16954	 16964	 16974
5	 168C5	 168D5	 168E5	 168F5	 16905	 16915	 16925	 16935	 16945	 16955	 16965	 16975
6	 168C6	 168D6	 168E6	 168F6	 16906	 16916	 16926	 16936	 16946	 16956	 16966	 16976
7	 168C7	 168D7	 168E7	 168F7	 16907	 16917	 16927	 16937	 16947	 16957	 16967	 16977
8	 168C8	 168D8	 168E8	 168F8	 16908	 16918	 16928	 16938	 16948	 16958	 16968	 16978
9	 168C9	 168D9	 168E9	 168F9	 16909	 16919	 16929	 16939	 16949	 16959	 16969	 16979
A	 168CA	 168DA	 168EA	 168FA	 1690A	 1691A	 1692A	 1693A	 1694A	 1695A	 1696A	 1697A
B	 168CB	 168DB	 168EB	 168FB	 1690B	 1691B	 1692B	 1693B	 1694B	 1695B	 1696B	 1697B
C	 168CC	 168DC	 168EC	 168FC	 1690C	 1691C	 1692C	 1693C	 1694C	 1695C	 1696C	 1697C
D	 168CD	 168DD	 168ED	 168FD	 1690D	 1691D	 1692D	 1693D	 1694D	 1695D	 1696D	 1697D
E	 168CE	 168DE	 168EE	 168FE	 1690E	 1691E	 1692E	 1693E	 1694E	 1695E	 1696E	 1697E
F	 168CF	 168DF	 168EF	 168FF	 1690F	 1691F	 1692F	 1693F	 1694F	 1695F	 1696F	 1697F

	1698	1699	169A	169B	169C	169D	169E	169F	16A0	16A1	16A2	16A3
0												
1												
2												
3												
4												
5												
6												
7												
8												
9												
A												
B												
C												
D												
E												
F												

**Characters found through Phase A**

16800 𐌀 BAMUM LETTER PHASE-A NGKUE MFON  
 16801 𐌁 BAMUM LETTER PHASE-A GBIEE FON  
 16802 𐌂 BAMUM LETTER PHASE-A PON MFON  
 PIPAEMGBIEE  
 16803 𐌃 BAMUM LETTER PHASE-A PON MFON  
 PIPAEMBA  
 16804 𐌄 BAMUM LETTER PHASE-A NAA MFON  
 16805 𐌅 BAMUM LETTER PHASE-A SHUENSHUET  
 16806 𐌆 BAMUM LETTER PHASE-A TITA MFON  
 16807 𐌇 BAMUM LETTER PHASE-A NZA MFON  
 16808 𐌈 BAMUM LETTER PHASE-A SHINDA PA NJI  
 16809 𐌉 BAMUM LETTER PHASE-A PON PA NJI  
 PIPAEMGBIEE  
 1680A 𐌊 BAMUM LETTER PHASE-A PON PA NJI  
 PIPAEMBA  
 1680B 𐌋 BAMUM LETTER PHASE-A MAEMGBIEE  
 1680C 𐌌 BAMUM LETTER PHASE-A TU MAEMBA  
 1680D 𐌍 BAMUM LETTER PHASE-A NGANGU  
 1680E 𐌎 BAMUM LETTER PHASE-A MAEMVEUX  
 1680F 𐌏 BAMUM LETTER PHASE-A MANSUAE  
 16810 𐌐 BAMUM LETTER PHASE-A  
 MVEUAENGAM  
 16811 𐌑 BAMUM LETTER PHASE-A SEUNYAM  
 16812 𐌒 BAMUM LETTER PHASE-A NTOQPEN  
 16813 𐌓 BAMUM LETTER PHASE-A KEUKEUTNDA  
 16814 𐌔 BAMUM LETTER PHASE-A NKINDI  
 16815 𐌕 BAMUM LETTER PHASE-A SUU  
 16816 𐌖 BAMUM LETTER PHASE-A NGKUENZEUM  
 16817 𐌗 BAMUM LETTER PHASE-A LAPAQ  
 16818 𐌘 BAMUM LETTER PHASE-A LET KUT  
 16819 𐌙 BAMUM LETTER PHASE-A NTAP MFAA  
 1681A 𐌚 BAMUM LETTER PHASE-A MAEKEUP  
 1681B 𐌛 BAMUM LETTER PHASE-A PASHAE  
 1681C 𐌜 BAMUM LETTER PHASE-A GHEUAERAE  
 1681D 𐌝 BAMUM LETTER PHASE-A PAMSHAE  
 1681E 𐌞 BAMUM LETTER PHASE-A MON  
 NGGEUAET  
 1681F 𐌟 BAMUM LETTER PHASE-A NZUN MEUT  
 16820 𐌠 BAMUM LETTER PHASE-A U YUQ NAE  
 16821 𐌡 BAMUM LETTER PHASE-A  
 GHEUAEGHEUAE  
 16822 𐌢 BAMUM LETTER PHASE-A NTAP NTAA  
 16823 𐌣 BAMUM LETTER PHASE-A SISA  
 16824 𐌤 BAMUM LETTER PHASE-A MGBASA  
 16825 𐌥 BAMUM LETTER PHASE-A  
 MEUNJOMNDEUQ  
 16826 𐌦 BAMUM LETTER PHASE-A MOOMPUIQ  
 16827 𐌧 BAMUM LETTER PHASE-A KAFA  
 16828 𐌨 BAMUM LETTER PHASE-A PA LEERAEWA  
 16829 𐌩 BAMUM LETTER PHASE-A NDA  
 LEERAEWA  
 1682A 𐌪 BAMUM LETTER PHASE-A PET  
 1682B 𐌫 BAMUM LETTER PHASE-A MAEMKPEN  
 1682C 𐌬 BAMUM LETTER PHASE-A NIKA  
 1682D 𐌭 BAMUM LETTER PHASE-A PUP  
 1682E 𐌮 BAMUM LETTER PHASE-A TUAEP  
 1682F 𐌯 BAMUM LETTER PHASE-A LUAEP  
 16830 𐌰 BAMUM LETTER PHASE-A SONJAM  
 16831 𐌱 BAMUM LETTER PHASE-A TEUTEUWEN  
 16832 𐌲 BAMUM LETTER PHASE-A MAENYI

16833 𐌳 BAMUM LETTER PHASE-A KET  
 16834 𐌴 BAMUM LETTER PHASE-A  
 NDAANGGEUAET  
 16835 𐌵 BAMUM LETTER PHASE-A KUOQ  
 16836 𐌶 BAMUM LETTER PHASE-A MOOMEUT  
 16837 𐌷 BAMUM LETTER PHASE-A SHUM  
 16838 𐌸 BAMUM LETTER PHASE-A LOMMAE  
 16839 𐌹 BAMUM LETTER PHASE-A FIRI  
 1683A 𐌺 BAMUM LETTER PHASE-A ROM  
 1683B 𐌻 BAMUM LETTER PHASE-A KPOQ  
 1683C 𐌼 BAMUM LETTER PHASE-A SOQ  
 1683D 𐌽 BAMUM LETTER PHASE-A MAP PIEET  
 1683E 𐌾 BAMUM LETTER PHASE-A SHIRAE  
 1683F 𐌿 BAMUM LETTER PHASE-A NTAP  
 16840 𐍀 BAMUM LETTER PHASE-A SHOQ NSHUT  
 YUM  
 16841 𐍁 BAMUM LETTER PHASE-A NYIT  
 MONGKEUAEQ  
 16842 𐍂 BAMUM LETTER PHASE-A PAARAE  
 16843 𐍃 BAMUM LETTER PHASE-A NKAARAE  
 16844 𐍄 BAMUM LETTER PHASE-A UNKNOWN  
 16845 𐍅 BAMUM LETTER PHASE-A NGGEN  
 16846 𐍆 BAMUM LETTER PHASE-A MAESI  
 16847 𐍇 BAMUM LETTER PHASE-A NJAM  
 16848 𐍈 BAMUM LETTER PHASE-A MBANYI  
 16849 𐍉 BAMUM LETTER PHASE-A NYET  
 1684A 𐍊 BAMUM LETTER PHASE-A TEUAEN  
 1684B 𐍋 BAMUM LETTER PHASE-A SOT  
 1684C 𐍌 BAMUM LETTER PHASE-A PAAM  
 1684D 𐍍 BAMUM LETTER PHASE-A NSHIEE  
 1684E 𐍎 BAMUM LETTER PHASE-A MAEM  
 1684F 𐍏 BAMUM LETTER PHASE-A NYI  
 16850 𐍐 BAMUM LETTER PHASE-A KAQ  
 16851 𐍑 BAMUM LETTER PHASE-A NSHA  
 16852 𐍒 BAMUM LETTER PHASE-A VEE  
 16853 𐍓 BAMUM LETTER PHASE-A LU  
 16854 𐍔 BAMUM LETTER PHASE-A NEN  
 16855 𐍕 BAMUM LETTER PHASE-A NAQ  
 16856 𐍖 BAMUM LETTER PHASE-A MBAQ

**Characters found through Phase B**

16857 𐍗 BAMUM LETTER PHASE-B NSHUET  
 16858 𐍘 BAMUM LETTER PHASE-B TU  
 MAEMGBIEE  
 16859 𐍙 BAMUM LETTER PHASE-B SIEE  
 1685A 𐍚 BAMUM LETTER PHASE-B SET TU  
 1685B 𐍛 BAMUM LETTER PHASE-B LOM NTEUM  
 1685C 𐍜 BAMUM LETTER PHASE-B MBA MAELEE  
 1685D 𐍝 BAMUM LETTER PHASE-B KIEEM  
 1685E 𐍞 BAMUM LETTER PHASE-B YEURAE  
 1685F 𐍟 BAMUM LETTER PHASE-B MBAARAE  
 16860 𐍠 BAMUM LETTER PHASE-B KAM  
 16861 𐍡 BAMUM LETTER PHASE-B PEESHI  
 16862 𐍢 BAMUM LETTER PHASE-B YAFU  
 LEERAEWA  
 16863 𐍣 BAMUM LETTER PHASE-B LAM NSHUT  
 NYAM  
 16864 𐍤 BAMUM LETTER PHASE-B NTIEE SHEUOQ  
 16865 𐍥 BAMUM LETTER PHASE-B NDU NJAA  
 16866 𐍦 BAMUM LETTER PHASE-B  
 GHEUGHEUAEM  
 16867 𐍧 BAMUM LETTER PHASE-B PIT



16868	𐌶	BAMUM LETTER PHASE-B TU NSIEE	1689D	𐌶	BAMUM LETTER PHASE-C NDOMBU
16869	+	BAMUM LETTER PHASE-B SHET NJAQ	1689E	𐌷	BAMUM LETTER PHASE-C MBAA CABBAGE-TREE
1686A	△	BAMUM LETTER PHASE-B SHEUAEQTU	1689F	𐌸	BAMUM LETTER PHASE-C KEUSHEUAEP
1686B	𐌸	BAMUM LETTER PHASE-B MFON TEUAEQ	168A0	𐌹	BAMUM LETTER PHASE-C GHAP
1686C	√	BAMUM LETTER PHASE-B MBIT MBAAKET	168A1	𐌺	BAMUM LETTER PHASE-C KEUKAQ
1686D	𐌻	BAMUM LETTER PHASE-B NYI NTEUM	168A2	𐌻	BAMUM LETTER PHASE-C YU MUOMAE
1686E	𐌼	BAMUM LETTER PHASE-B KEUPUQ	168A3	𐌼	BAMUM LETTER PHASE-C NZEUM
1686F	𐌽	BAMUM LETTER PHASE-B GHEUGHEN	168A4	𐌽	BAMUM LETTER PHASE-C MBUE
16870	𐌾	BAMUM LETTER PHASE-B KEUYEUX	168A5	𐌾	BAMUM LETTER PHASE-C NSEUAEN
16871	𐌿	BAMUM LETTER PHASE-B LAANAE	168A6	𐌿	BAMUM LETTER PHASE-C MBIT
16872	↑	BAMUM LETTER PHASE-B PARUM • nsen in Phases C-E	168A7	𐍀	BAMUM LETTER PHASE-C YEUQ
16873	𐍁	BAMUM LETTER PHASE-B VEUM	168A8	𐍁	BAMUM LETTER PHASE-C KPARAQ
16874	𐍂	BAMUM LETTER PHASE-B NGKINDI MVOF	168A9	𐍂	BAMUM LETTER PHASE-C KAA
16875	𐍃	BAMUM LETTER PHASE-B NGGEU MBU	168AA	𐍃	BAMUM LETTER PHASE-C SEUX
16876	△	BAMUM LETTER PHASE-B WUAET	168AB	𐍄	BAMUM LETTER PHASE-C NDIDA
16877	𐍅	BAMUM LETTER PHASE-B SAKUAE	168AC	𐍅	BAMUM LETTER PHASE-C TAASHAE
16878	𐍆	BAMUM LETTER PHASE-B TAAM	168AD	𐍆	BAMUM LETTER PHASE-C NJUEQ
16879	𐍇	BAMUM LETTER PHASE-B MEUQ	168AE	𐍇	BAMUM LETTER PHASE-C TITA YUE
1687A	∴	BAMUM LETTER PHASE-B NGGUOQ	168AF	𐍈	BAMUM LETTER PHASE-C SUAET
1687B	∴	BAMUM LETTER PHASE-B NGGUOQ LARGE	168B0	𐍉	BAMUM LETTER PHASE-C NGGUAEN NYAM
1687C	⊗	BAMUM LETTER PHASE-B MFIYAQ	168B1	𐍊	BAMUM LETTER PHASE-C VEUX
1687D	𐍋	BAMUM LETTER PHASE-B SUE	168B2	𐍋	BAMUM LETTER PHASE-C NANSANAQ
1687E	𐍌	BAMUM LETTER PHASE-B MBEURI	168B3	𐍌	BAMUM LETTER PHASE-C MA KEUAERI
1687F	△	BAMUM LETTER PHASE-B MONTIEEN	168B4	𐍍	BAMUM LETTER PHASE-C NTA
16880	𐍏	BAMUM LETTER PHASE-B NYAEMAE	168B5	𐍎	BAMUM LETTER PHASE-C NGGUON
16881	𐍐	BAMUM LETTER PHASE-B PUNGAAM	168B6	𐍏	BAMUM LETTER PHASE-C LAP
16882	𐍑	BAMUM LETTER PHASE-B MEUT NGGEET	168B7	𐍐	BAMUM LETTER PHASE-C MBIRIEEN
16883	𐍒	BAMUM LETTER PHASE-B FEUX	168B8	𐍑	BAMUM LETTER PHASE-C MGBASAQ
16884	⊗	BAMUM LETTER PHASE-B MBUOQ	168B9	𐍒	BAMUM LETTER PHASE-C NTEUNGBA
16885	𐍕	BAMUM LETTER PHASE-B FEE	168BA	𐍓	BAMUM LETTER PHASE-C TEUTEUX
16886	𐍖	BAMUM LETTER PHASE-B KEUAEM	168BB	𐍔	BAMUM LETTER PHASE-C NGGUM
16887	↑	BAMUM LETTER PHASE-B MA NJEUAEANA	168BC	𐍕	BAMUM LETTER PHASE-C FUE
16888	𐍘	BAMUM LETTER PHASE-B MA NJUQA	168BD	𐍖	BAMUM LETTER PHASE-C NDEUT
16889	𐍙	BAMUM LETTER PHASE-B LET	168BE	𐍗	BAMUM LETTER PHASE-C NSA
1688A	∞	BAMUM LETTER PHASE-B NGGAAM	168BF	𐍘	BAMUM LETTER PHASE-C NSHAQ
1688B	𐍛	BAMUM LETTER PHASE-B NSEN	168C0	𐍙	BAMUM LETTER PHASE-C BUNG
1688C	𐍜	BAMUM LETTER PHASE-B MA	168C1	𐍚	BAMUM LETTER PHASE-C VEUAEPEN
1688D	𐍝	BAMUM LETTER PHASE-B KIQ	168C2	𐍛	BAMUM LETTER PHASE-C MBERAE
1688E	𐍞	BAMUM LETTER PHASE-B NGOM	168C3		BAMUM LETTER PHASE-C RU
<b>Characters found through Phase C</b>			168C4	𐍟	BAMUM LETTER PHASE-C NJAEM
1688F	⊗	BAMUM LETTER PHASE-C NGKUE MAEMBA	168C5	𐍠	BAMUM LETTER PHASE-C LAM
16890	𐍡	BAMUM LETTER PHASE-C NZA	168C6	𐍡	BAMUM LETTER PHASE-C TITUAEP
16891	𐍢	BAMUM LETTER PHASE-C YUM	168C7	𐍢	BAMUM LETTER PHASE-C NSUOT NGOM
16892	𐍣	BAMUM LETTER PHASE-C WANGKUOQ	168C8	𐍣	BAMUM LETTER PHASE-C NJEEEE
16893	𐍤	BAMUM LETTER PHASE-C NGGEN	168C9	𐍤	BAMUM LETTER PHASE-C KET
16894	𐍥	BAMUM LETTER PHASE-C NDEUAEREE	168CA	𐍥	BAMUM LETTER PHASE-C NGGU
16895	𐍦	BAMUM LETTER PHASE-C NGKAQ	168CB	𐍦	BAMUM LETTER PHASE-C MAESI
16896	𐍧	BAMUM LETTER PHASE-C GHARAE	168CC	𐍧	BAMUM LETTER PHASE-C MBUAEM
16897	𐍨	BAMUM LETTER PHASE-C MBEEKEET	168CD	𐍨	BAMUM LETTER PHASE-C LU
16898	𐍩	BAMUM LETTER PHASE-C GBAYI	168CE	𐍩	BAMUM LETTER PHASE-C KUT
16899	𐍪	BAMUM LETTER PHASE-C NYIR MKPARAQ MEUN	168CF	𐍪	BAMUM LETTER PHASE-C NJAM
1689A	𐍫	BAMUM LETTER PHASE-C NTU MBIT	168D0	𐍫	BAMUM LETTER PHASE-C NGOM
1689B	𐍬	BAMUM LETTER PHASE-C MBEUM	168D1	𐍬	BAMUM LETTER PHASE-C WUP
1689C	𐍭	BAMUM LETTER PHASE-C PIRIEEN	168D2	𐍭	BAMUM LETTER PHASE-C NGGUEET
			168D3	𐍮	BAMUM LETTER PHASE-C NSOM
			168D4	𐍯	BAMUM LETTER PHASE-C NTEN
			168D5	𐍰	BAMUM LETTER PHASE-C KUOP NKAARAE
			168D6	𐍱	BAMUM LETTER PHASE-C NSUN

168D7	𐌄	BAMUM LETTER PHASE-C NDAM • pen in Phase D	1690F	𐌆	BAMUM LETTER PHASE-D KEUOT MBUAE
168D8	𐌅	BAMUM LETTER PHASE-C MA NSIEE	16910	𐌇	BAMUM LETTER PHASE-D NGKEURI
168D9	𐌆	BAMUM LETTER PHASE-C YAA	16911	𐌈	BAMUM LETTER PHASE-D TU
168DA	𐌇	BAMUM LETTER PHASE-C NDAP	16912	𐌉	BAMUM LETTER PHASE-D GHAA
168DB	𐌈	BAMUM LETTER PHASE-C SHUEQ	16913	𐌊	BAMUM LETTER PHASE-D NGKYEE
168DC	𐌉	BAMUM LETTER PHASE-C SETFON	16914	𐌋	BAMUM LETTER PHASE-D FEUFUEAET
168DD	𐌊	BAMUM LETTER PHASE-C MBI	16915	𐌌	BAMUM LETTER PHASE-D NDEE
168DE	𐌋	BAMUM LETTER PHASE-C MAEMBA	16916	𐌍	BAMUM LETTER PHASE-D MGBOFUM
168DF	𐌌	BAMUM LETTER PHASE-C MBANYI	16917	𐌎	BAMUM LETTER PHASE-D LEUAEP
168E0	𐌍	BAMUM LETTER PHASE-C KEUSEUX	16918	𐌏	BAMUM LETTER PHASE-D NDON
168E1	𐌎	BAMUM LETTER PHASE-C MBEUX	16919	𐌐	BAMUM LETTER PHASE-D MONI
168E2	𐌏	BAMUM LETTER PHASE-C KEUM	1691A	𐌑	BAMUM LETTER PHASE-D MGBEUN
168E3	𐌐	BAMUM LETTER PHASE-C MBAA PICKET	1691B	𐌒	BAMUM LETTER PHASE-D PUUT
168E4	𐌑	BAMUM LETTER PHASE-C YUWOQ	1691C	𐌓	BAMUM LETTER PHASE-D MGBIEE
168E5	𐌒	BAMUM LETTER PHASE-C NJEUX	1691D	𐌔	BAMUM LETTER PHASE-D MFO
168E6	𐌓	BAMUM LETTER PHASE-C MIEE	1691E	𐌕	BAMUM LETTER PHASE-D LUM
168E7	𐌔	BAMUM LETTER PHASE-C MUAE	1691F	𐌖	BAMUM LETTER PHASE-D NSIEEP
168E8	𐌕	BAMUM LETTER PHASE-C SHIQ	16920	𐌗	BAMUM LETTER PHASE-D MBAA
168E9	𐌖	BAMUM LETTER PHASE-C KEN LAW	16921	𐌘	BAMUM LETTER PHASE-D KWAET
168EA	𐌗	BAMUM LETTER PHASE-C KEN FATIGUE	16922	𐌙	BAMUM LETTER PHASE-D NYET
168EB	𐌘	BAMUM LETTER PHASE-C NGAQ	16923	𐌚	BAMUM LETTER PHASE-D TEUAEN
168EC	𐌙	BAMUM LETTER PHASE-C NAQ	16924	𐌛	BAMUM LETTER PHASE-D SOT
168ED	𐌚	BAMUM LETTER PHASE-C LIQ	16925	𐌜	BAMUM LETTER PHASE-D YUWOQ
168EE	𐌛	BAMUM LETTER PHASE-C PIN	16926	𐌝	BAMUM LETTER PHASE-D KEUM
168EF	𐌜	BAMUM LETTER PHASE-C PEN	16927	𐌞	BAMUM LETTER PHASE-D RAEM
168F0	𐌝	BAMUM LETTER PHASE-C TET	16928	𐌟	BAMUM LETTER PHASE-D TEEEE
			16929	𐌠	BAMUM LETTER PHASE-D NGKEUAEQ • faamae '8' in Phase F

### Characters found through Phase D

168F1	𐌞	BAMUM LETTER PHASE-D MBUO	1692A	𐌡	BAMUM LETTER PHASE-D MFEUAE
168F2	𐌟	BAMUM LETTER PHASE-D WAP	1692B	𐌢	BAMUM LETTER PHASE-D NSIEET
168F3	𐌠	BAMUM LETTER PHASE-D NJI	1692C	𐌣	BAMUM LETTER PHASE-D KEUP
168F4	𐌡	BAMUM LETTER PHASE-D MFON	1692D	𐌤	BAMUM LETTER PHASE-D PIP
168F5	𐌢	BAMUM LETTER PHASE-D NJIEE	1692E	𐌥	BAMUM LETTER PHASE-D NYUTAE
168F6	𐌣	BAMUM LETTER PHASE-D LIEE	1692F	𐌦	BAMUM LETTER PHASE-D NEUTAE
168F7	𐌤	BAMUM LETTER PHASE-D NJEUT	16930	𐌧	BAMUM LETTER PHASE-D LET • lee in Phases E-F
168F8	𐌥	BAMUM LETTER PHASE-D NSHEE	16931	𐌨	BAMUM LETTER PHASE-D NGGAAM • mu in Phases E-F
168F9	𐌦	BAMUM LETTER PHASE-D NGGAAMAE	16932	𐌩	BAMUM LETTER PHASE-D MFIEE
168FA	𐌧	BAMUM LETTER PHASE-D NYAM	16933	𐌪	BAMUM LETTER PHASE-D NGGWAEN
168FB	𐌨	BAMUM LETTER PHASE-D WUAEN • ti in Phases E-F	16934	𐌫	BAMUM LETTER PHASE-D YUOM
168FC	𐌩	BAMUM LETTER PHASE-D NGKUN	16935	𐌬	BAMUM LETTER PHASE-D PAP
168FD	𐌪	BAMUM LETTER PHASE-D SHEE	16936	𐌭	BAMUM LETTER PHASE-D YUOP
168FE	𐌫	BAMUM LETTER PHASE-D NGKAP	16937	𐌮	BAMUM LETTER PHASE-D NDAM
168FF	𐌬	BAMUM LETTER PHASE-D KEUAETMEUN	16938	𐌯	BAMUM LETTER PHASE-D NTEUM
16900	𐌭	BAMUM LETTER PHASE-D TEUT	16939	𐌰	BAMUM LETTER PHASE-D SUAE
16901	𐌮	BAMUM LETTER PHASE-D SHEUAE	1693A	𐌱	BAMUM LETTER PHASE-D KUN
16902	𐌯	BAMUM LETTER PHASE-D NJAP	1693B	𐌲	BAMUM LETTER PHASE-D NGGEUX
16903	𐌰	BAMUM LETTER PHASE-D SUE	1693C	𐌳	BAMUM LETTER PHASE-D NGKIEE
16904	𐌱	BAMUM LETTER PHASE-D KET	1693D	𐌴	BAMUM LETTER PHASE-D TUOT
16905	𐌲	BAMUM LETTER PHASE-D YAEMMAE	1693E	𐌵	BAMUM LETTER PHASE-D MEUN
16906	𐌳	BAMUM LETTER PHASE-D KUOM	1693F	𐌶	BAMUM LETTER PHASE-D KUQ
16907	𐌴	BAMUM LETTER PHASE-D SAP	16940	𐌷	BAMUM LETTER PHASE-D NSUM
16908	𐌵	BAMUM LETTER PHASE-D MFEUT	16941	𐌸	BAMUM LETTER PHASE-D TEUN
16909	𐌶	BAMUM LETTER PHASE-D NDEUX	16942	𐌹	BAMUM LETTER PHASE-D MAENJET
1690A	𐌷	BAMUM LETTER PHASE-D MALEERI	16943	𐌺	BAMUM LETTER PHASE-D NGGAP
1690B	𐌸	BAMUM LETTER PHASE-D MEUT	16944	𐌻	BAMUM LETTER PHASE-D LEUM
1690C	𐌹	BAMUM LETTER PHASE-D SEUAEQ	16945	𐌼	BAMUM LETTER PHASE-D NGGUOM
1690D	𐌺	BAMUM LETTER PHASE-D YEN	16946	𐌽	BAMUM LETTER PHASE-D NSHUT
1690E	𐌻	BAMUM LETTER PHASE-D NJEUAE	16947	𐌾	BAMUM LETTER PHASE-D NJUEQ

16948	€	BAMUM LETTER PHASE-D GHEUAE
16949	⋈	BAMUM LETTER PHASE-D KU
1694A	𐌗	BAMUM LETTER PHASE-D REN OLD
1694B	𐌘	BAMUM LETTER PHASE-D TAE
1694C	𐌙	BAMUM LETTER PHASE-D TOQ
1694D	𐌚	BAMUM LETTER PHASE-D NYI
1694E	𐌛	BAMUM LETTER PHASE-D RII
1694F	𐌜	BAMUM LETTER PHASE-D LEEEE
16950	𐌝	BAMUM LETTER PHASE-D MEEEE • meq in Phase E
16951	𐌞	BAMUM LETTER PHASE-D M
16952	𐌟	BAMUM LETTER PHASE-D SUU
16953	𐌠	BAMUM LETTER PHASE-D MU
16954	𐌡	BAMUM LETTER PHASE-D SHII
16955	𐌢	BAMUM LETTER PHASE-D SHEUX
16956	𐌣	BAMUM LETTER PHASE-D KYEE
16957	𐌤	BAMUM LETTER PHASE-D NU
16958	𐌥	BAMUM LETTER PHASE-D SHU
16959	𐌦	BAMUM LETTER PHASE-D NTEE
1695A	𐌧	BAMUM LETTER PHASE-D PEE
1695B	𐌨	BAMUM LETTER PHASE-D NI
1695C	𐌩	BAMUM LETTER PHASE-D SHOQ
1695D	𐌪	BAMUM LETTER PHASE-D PUQ
1695E	𐌫	BAMUM LETTER PHASE-D MVOP
1695F	𐌬	BAMUM LETTER PHASE-D LOQ
16960	𐌭	BAMUM LETTER PHASE-D REN MUCH
16961	𐌮	BAMUM LETTER PHASE-D TI
16962	𐌯	BAMUM LETTER PHASE-D NTUU
16963	𐌰	BAMUM LETTER PHASE-D MBAA SEVEN • used after 16985 𐌰 for samba ‘7’ in Phases A-D
16964	𐌱	BAMUM LETTER PHASE-D SAQ
16965	𐌲	BAMUM LETTER PHASE-D FAA • used before 169B8 𐌲 for faamae ‘8’ in Phases A-D

### Characters found through Phase E

16966	𐌳	BAMUM LETTER PHASE-E NDAP • i in Phase F
16967	𐌴	BAMUM LETTER PHASE-E TOON
16968	𐌵	BAMUM LETTER PHASE-E MBEUM
16969	𐌶	BAMUM LETTER PHASE-E LAP • men in Phase F
1696A	𐌷	BAMUM LETTER PHASE-E VOM
1696B	𐌸	BAMUM LETTER PHASE-E LOON
1696C	𐌹	BAMUM LETTER PHASE-E PAA
1696D	𐌺	BAMUM LETTER PHASE-E SOM
1696E	𐌻	BAMUM LETTER PHASE-E RAQ • nga in Phase F
1696F	𐌼	BAMUM LETTER PHASE-E NSHUOP • pa in Phase F
16970	𐌽	BAMUM LETTER PHASE-E NDUN • pue in Phase F
16971	𐌾	BAMUM LETTER PHASE-E PUAE • fae in Phase F
16972	𐌿	BAMUM LETTER PHASE-E TAM
16973	𐍀	BAMUM LETTER PHASE-E NGKA
16974	𐍁	BAMUM LETTER PHASE-E KPEUX
16975	𐍂	BAMUM LETTER PHASE-E WUO
16976	𐍃	BAMUM LETTER PHASE-E SEE
16977	𐍄	BAMUM LETTER PHASE-E NGGEUAET

16978	𐍅	BAMUM LETTER PHASE-E PAAM
16979	𐍆	BAMUM LETTER PHASE-E TOO
1697A	𐍇	BAMUM LETTER PHASE-E KUOP
1697B	𐍈	BAMUM LETTER PHASE-E LOM
1697C	𐍉	BAMUM LETTER PHASE-E NSHIEE
1697D	𐍊	BAMUM LETTER PHASE-E NGOP
1697E	𐍋	BAMUM LETTER PHASE-E MAEM
1697F	𐍌	BAMUM LETTER PHASE-E NGKEUX
16980	𐍍	BAMUM LETTER PHASE-E NGOQ
16981	𐍎	BAMUM LETTER PHASE-E NSHUE
16982	𐍏	BAMUM LETTER PHASE-E RIMGBA
16983	𐍐	BAMUM LETTER PHASE-E NJEUX
16984	𐍑	BAMUM LETTER PHASE-E PEEM
16985	𐍒	BAMUM LETTER PHASE-E SAA • used before 16963 𐍒 for samba ‘7’ in Phases A-D
16986	𐍓	BAMUM LETTER PHASE-E NGGURAE
16987	𐍔	BAMUM LETTER PHASE-E MGBA
16988	𐍕	BAMUM LETTER PHASE-E GHEUX
16989	𐍖	BAMUM LETTER PHASE-E NGKEUAEM
1698A	𐍗	BAMUM LETTER PHASE-E NJAEMLI
1698B	𐍘	BAMUM LETTER PHASE-E MAP
1698C	𐍙	BAMUM LETTER PHASE-E LOOT
1698D	𐍚	BAMUM LETTER PHASE-E NGGEEEE
1698E	𐍛	BAMUM LETTER PHASE-E NDIQ
1698F	𐍜	BAMUM LETTER PHASE-E TAEN NTEUM
16990	𐍝	BAMUM LETTER PHASE-E SET
16991	𐍞	BAMUM LETTER PHASE-E PUM • o in Phase F
16992	𐍟	BAMUM LETTER PHASE-E NDAA SOFTNESS
16993	𐍠	BAMUM LETTER PHASE-E NGGUAESHA NYAM • fee in Phase F
16994	𐍡	BAMUM LETTER PHASE-E YIEE
16995	𐍢	BAMUM LETTER PHASE-E GHEUN
16996	𐍣	BAMUM LETTER PHASE-E TUAE
16997	𐍤	BAMUM LETTER PHASE-E YEUA E
16998	𐍥	BAMUM LETTER PHASE-E PO
16999	𐍦	BAMUM LETTER PHASE-E TUMAE
1699A	𐍧	BAMUM LETTER PHASE-E KEUAE
1699B	𐍨	BAMUM LETTER PHASE-E SUAEN
1699C	𐍩	BAMUM LETTER PHASE-E TEUA EQ
1699D	𐍪	BAMUM LETTER PHASE-E VEUA E
1699E	𐍫	BAMUM LETTER PHASE-E WEUX
1699F	𐍬	BAMUM LETTER PHASE-E LAAM
169A0	𐍭	BAMUM LETTER PHASE-E PU • also puq in Phase E
169A1	𐍮	BAMUM LETTER PHASE-E TAAQ
169A2	𐍯	BAMUM LETTER PHASE-E GHAAMAE
169A3	𐍰	BAMUM LETTER PHASE-E NGEURE UT
169A4	𐍱	BAMUM LETTER PHASE-E SHEUA EQ
169A5	𐍲	BAMUM LETTER PHASE-E MGBEN
169A6	𐍳	BAMUM LETTER PHASE-E MBEE
169A7	𐍴	BAMUM LETTER PHASE-E NZAQ
169A8	𐍵	BAMUM LETTER PHASE-E NKOM • ten in Phase F
169A9	𐍶	BAMUM LETTER PHASE-E GBET
169AA	𐍷	BAMUM LETTER PHASE-E TUM
169AB	𐍸	BAMUM LETTER PHASE-E KUET
169AC	𐍹	BAMUM LETTER PHASE-E YAP

169AD	𐌰	BAMUM LETTER PHASE-E NYI CLEAVER	169E5	𐌰	BAMUM LETTER PHASE-E YUN
169AE	𐌱	BAMUM LETTER PHASE-E YIT	169E6	𐌱	BAMUM LETTER PHASE-E KEUX
169AF	𐌲	BAMUM LETTER PHASE-E MFEUQ	169E7	𐌲	BAMUM LETTER PHASE-E PEUX
169B0	𐌳	BAMUM LETTER PHASE-E NDIAQ	169E8	𐌳	BAMUM LETTER PHASE-E NJEE EPOCH
169B1	𐌴	BAMUM LETTER PHASE-E PIEEQ	169E9	𐌴	BAMUM LETTER PHASE-E PUE
169B2	𐌵	BAMUM LETTER PHASE-E YUEQ	169EA	𐌵	BAMUM LETTER PHASE-E WUE
169B3	𐌶	BAMUM LETTER PHASE-E LEUAEM	169EB	𐌶	BAMUM LETTER PHASE-E FEE
169B4	𐌷	BAMUM LETTER PHASE-E FUE	169EC	𐌷	BAMUM LETTER PHASE-E VEE
169B5	𐌸	BAMUM LETTER PHASE-E GBEUX	169ED	𐌸	BAMUM LETTER PHASE-E LU
169B6	𐌹	BAMUM LETTER PHASE-E NGKUP	169EE	𐌹	BAMUM LETTER PHASE-E MI
169B7	𐌺	BAMUM LETTER PHASE-E KET	169EF	𐌺	BAMUM LETTER PHASE-E REUX
169B8	◦	BAMUM LETTER PHASE-E MAE • used after 16965 𐌾 for faamae ‘8’ in Phases A-D	169F0	𐌻	BAMUM LETTER PHASE-E RAU
169B9	◉	BAMUM LETTER PHASE-E NGKAAMI	169F1	𐌼	BAMUM LETTER PHASE-E NGUAET
169BA	𐌻	BAMUM LETTER PHASE-E GHET	169F2	𐌽	BAMUM LETTER PHASE-E NGA
169BB	𐌼	BAMUM LETTER PHASE-E FA	169F3	𐌾	BAMUM LETTER PHASE-E SHO
169BC	𐌽	BAMUM LETTER PHASE-E NTUM	169F4	𐌿	BAMUM LETTER PHASE-E SHOQ
169BD	𐌾	BAMUM LETTER PHASE-E PEUT	169F5	𐍀	BAMUM LETTER PHASE-E FU REMEDY
169BE	𐌿	BAMUM LETTER PHASE-E YEUM	169F6	𐍁	BAMUM LETTER PHASE-E NA
169BF	𐍀	BAMUM LETTER PHASE-E NGGEUAE	169F7	𐍂	BAMUM LETTER PHASE-E PI
169C0	𐍁	BAMUM LETTER PHASE-E NYI BETWEEN	169F8	𐍃	BAMUM LETTER PHASE-E LOQ
169C1	𐍂	BAMUM LETTER PHASE-E NZUQ	169F9	•	BAMUM LETTER PHASE-E KO • used before 16A02 𐍄 for koghom ‘10’ in Phases A-D • used before 16A38 𐍅 for kovue ‘9’ in Phases A-D
169C2	𐍃	BAMUM LETTER PHASE-E POON	169FA	𐍆	BAMUM LETTER PHASE-E MEN
169C3	𐍄	BAMUM LETTER PHASE-E MIEE	169FB	𐍇	BAMUM LETTER PHASE-E MA
169C4	𐍅	BAMUM LETTER PHASE-E FUET	169FC	𐍈	BAMUM LETTER PHASE-E MAQ
169C5	𐍆	BAMUM LETTER PHASE-E NAE	169FD	𐍉	BAMUM LETTER PHASE-E TEU
169C6	𐍇	BAMUM LETTER PHASE-E MUAE	169FE	𐍊	BAMUM LETTER PHASE-E KI • koghom in Phase F
169C7	𐍈	BAMUM LETTER PHASE-E GHEUAE	169FF	𐍋	BAMUM LETTER PHASE-E MON
169C8	𐍉	BAMUM LETTER PHASE-E FU I	16A00	𐍌	BAMUM LETTER PHASE-E TEN
169C9	𐍊	BAMUM LETTER PHASE-E MVI	16A01	𐍍	BAMUM LETTER PHASE-E FAQ
169CA	𐍋	BAMUM LETTER PHASE-E PUAQ	16A02	𐍎	BAMUM LETTER PHASE-E GHOM • used after 169F9 • for koghom ‘10’ in Phases A-D
169CB	◦	BAMUM LETTER PHASE-E NGKUM	<b>Characters found through Phase F</b>		
169CC	𐍎	BAMUM LETTER PHASE-E KUT	16A03	𐍏	BAMUM LETTER PHASE-F KA
169CD	𐍇	BAMUM LETTER PHASE-E PIET	16A04	𐍐	BAMUM LETTER PHASE-F U
169CE	𐍈	BAMUM LETTER PHASE-E NTAP	16A05	𐍑	BAMUM LETTER PHASE-F KU
169CF	𐍉	BAMUM LETTER PHASE-E YEUAET	16A06	𐍒	BAMUM LETTER PHASE-F EE
169D0	𐍊	BAMUM LETTER PHASE-E NGGUP	16A07	𐍓	BAMUM LETTER PHASE-F REE
169D1	𐍋	BAMUM LETTER PHASE-E PA PEOPLE	16A08	𐍔	BAMUM LETTER PHASE-F TAE
169D2	𐍌	BAMUM LETTER PHASE-E FU CALL	16A09	𐍕	BAMUM LETTER PHASE-F NYI
169D3	𐍍	BAMUM LETTER PHASE-E FOM	16A0A	𐍖	BAMUM LETTER PHASE-F LA
169D4	𐍎	BAMUM LETTER PHASE-E NJEE	16A0B	𐍗	BAMUM LETTER PHASE-F RII
169D5	𐍇	BAMUM LETTER PHASE-E A	16A0C	𐍘	BAMUM LETTER PHASE-F RIEE
169D6	𐍈	BAMUM LETTER PHASE-E TOQ	16A0D	𐍙	BAMUM LETTER PHASE-F MEEEE
169D7	𐍉	BAMUM LETTER PHASE-E O	16A0E	𐍚	BAMUM LETTER PHASE-F TAA
169D8	𐍊	BAMUM LETTER PHASE-E I	16A0F	𐍛	BAMUM LETTER PHASE-F NDAA
169D9	𐍋	BAMUM LETTER PHASE-E LAQ	16A10	𐍜	BAMUM LETTER PHASE-F NJAEM
169DA	𐍌	BAMUM LETTER PHASE-E PA PLURAL	16A11	𐍝	BAMUM LETTER PHASE-F M
169DB	𐍍	BAMUM LETTER PHASE-E TAA	16A12	𐍞	BAMUM LETTER PHASE-F SUU
169DC	𐍎	BAMUM LETTER PHASE-E TAQ	16A13	𐍟	BAMUM LETTER PHASE-F SHII
169DD	𐍇	BAMUM LETTER PHASE-E NDAA MY HOUSE	16A14	𐍠	BAMUM LETTER PHASE-F SI
169DE	𐍈	BAMUM LETTER PHASE-E SHIQ	16A15	𐍡	BAMUM LETTER PHASE-F SEUX
169DF	𐍉	BAMUM LETTER PHASE-E YEUX	16A16	𐍢	BAMUM LETTER PHASE-F KYEE
169E0	𐍊	BAMUM LETTER PHASE-E NGUAE	16A17	𐍣	BAMUM LETTER PHASE-F KET
169E1	𐍋	BAMUM LETTER PHASE-E YUAEN • pi in Phase F	16A18	𐍤	BAMUM LETTER PHASE-F NUAE
169E2	𐍌	BAMUM LETTER PHASE-E YOQ SWIMMING			
169E3	𐍍	BAMUM LETTER PHASE-E YOQ COVER			
169E4	𐍎	BAMUM LETTER PHASE-E YUQ			

16A19	𐌗	BAMUM LETTER PHASE-F NU
16A1A	𐌘	BAMUM LETTER PHASE-F NJUAE
16A1B	𐌙	BAMUM LETTER PHASE-F YOQ
16A1C	𐌚	BAMUM LETTER PHASE-F SHU
16A1D	𐌛	BAMUM LETTER PHASE-F YA
16A1E	𐌜	BAMUM LETTER PHASE-F NSHA
16A1F	𐌝	BAMUM LETTER PHASE-F PEUX
16A20	𐌞	BAMUM LETTER PHASE-F NTEE
16A21	𐌟	BAMUM LETTER PHASE-F WUE
16A22	𐌠	BAMUM LETTER PHASE-F PEE
16A23	𐌡	BAMUM LETTER PHASE-F RU
16A24	𐌢	BAMUM LETTER PHASE-F NI
16A25	𐌣	BAMUM LETTER PHASE-F REUX
16A26	𐌤	BAMUM LETTER PHASE-F KEN
16A27	𐌥	BAMUM LETTER PHASE-F NGKWAEN
16A28	𐌦	BAMUM LETTER PHASE-F NGGA
16A29	𐌧	BAMUM LETTER PHASE-F SHO
16A2A	𐌨	BAMUM LETTER PHASE-F PUAE
16A2B	𐌩	BAMUM LETTER PHASE-F FOM
16A2C	𐌪	BAMUM LETTER PHASE-F WA
16A2D	𐌫	BAMUM LETTER PHASE-F LI
16A2E	𐌬	BAMUM LETTER PHASE-F LOQ
16A2F	𐌭	BAMUM LETTER PHASE-F KO
16A30	𐌮	BAMUM LETTER PHASE-F MBEN
16A31	𐌯	BAMUM LETTER PHASE-F REN
16A32	𐌰	BAMUM LETTER PHASE-F MA
16A33	𐌱	BAMUM LETTER PHASE-F MO
16A34	𐌲	BAMUM LETTER PHASE-F MBAA
16A35	𐌳	BAMUM LETTER PHASE-F TET
16A36	𐌴	BAMUM LETTER PHASE-F KPA
16A37	𐌵	BAMUM LETTER PHASE-F SAMBA
16A38	𐌶	BAMUM LETTER PHASE-F VUEQ

• used after 169F9 • for kovue ‘9’ in Phases A-D