JTC1/SC2/WG2 - ISO/IEC 10646 - UCS

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

Title: **The UCS Tangut Repertory**

Authors: Richard Cook (*UC Berkeley*), Ken Lunde (*Adobe Systems*)
Date: 2008-10-10
Action: For UTC and WG2 consideration
References: PDAM 6.2, N3496, N3498, N3467, N3297, N3297A, N3297B

Purpose: This document seeks to highlight points of general consensus on the repertory of Tangut characters currently under ballot, to address questions relating to unifications, and to outline a path toward consensus on the repertory.

Contents:

《西夏文統一碼字庫存》
The UCS Tangut Repertory

Introduction and Overview

This document seeks to highlight points of general consensus on the repertory of Tangut characters currently under ballot, to address questions relating to unifications, and to outline a path toward consensus on the repertory.

There seems to be general agreement to encode all 5,910 characters in the current repertory, even if some unifications are questioned.

There also seems to be agreement that other forms explicitly unified in the multi-column chart should be handled by means of some encoding mechanism.

Outstanding questions seem to relate to the specific encoding mechanisms for handling specific disunifications. "Do we encode only simple UCS characters, do we define UCS variation sequences (UVS), or are both approaches equally valid?"

In fact, variation sequences may provide the only way to address backwards compatibility with common legacy encodings of Tangut (which encode obvious duplicates, non-distinctive differences, and erroneous distinctions).

So, the questions then become: "Which UCS characters do we encode, which variation sequences do we define, and when?"
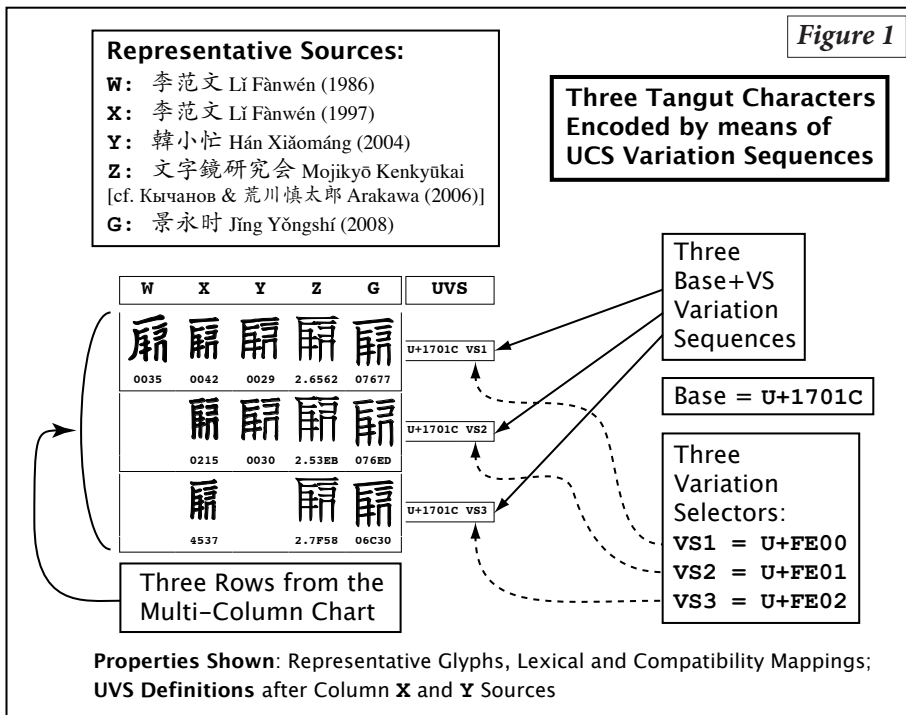
As with CJK, for which repertory and unification issues continue to be addressed, the complex Tangut script is well-suited to being encoded in stages. Additional rows might be added to the multi-column chart, and forms explicitly unified in the proposed repertory might be disunified in the future.

In determining a repertory for the encoding, and for moving forward in stages, the following principles are assumed:

• To encode only simple UCS characters, unifications based on judgements of specific authoritative sources were captured in the original multi-column code chart.

• UVS are defined in the present document in order to accommodate variant lexical-source separations, variant authoritative opinions on unifications, and to address backwards compatibility issues.

• UVS definitions in the current document may also provide a standard framework in which experts may collaborate on future development of the repertory.

• A mechanism is also here proposed for consolidating comments and additional lexical-source property data, to streamline the process of encoding new Tangut characters and variants, and to define new UVS in the future, as needed.

Multi-Column / Multi-Row Charts: A Case Study

The encoding of Tangut is based on five primary sources, each with a column in the *Multi-Column Chart* (see Figure 1 below). Three of these (Columns W, X, Y) represent progressive refinements in the work of Prof. Lǐ Fànwén (1986,1997) and his editor and student Dr. Hán Xiǎománg (2004). Their latter work collating the primary manuscripts had priority in determining Base and UVS character properties and in resolving inconsistencies: it is simply the best work available. The other two sources (Columns Z, G) rely upon the Column X and Y serializations, respectively: Column G uses the best font face available, and would be an excellent choice for use in future single-column charts.

Figure 1

Representative Sources:
W: 李范文 Lǐ Fànwén (1986)
X: 李范文 Lǐ Fànwén (1997)
Y: 韓小忙 Hán Xiǎománg (2004)
Z: 文字鏡研究会 Mojikyō Kenkyūkai
[cf. Кычанов & 荒川慎太郎 Arakawa (2006)]
G: 景永时 Jǐng Yǒngshí (2008)

Three Tangut Characters Encoded by means of UCS Variation Sequences

Three Base+VS Variation Sequences

Base = U+1701C

Three Variation Selectors:
VS1 = U+FE00
VS2 = U+FE01
VS3 = U+FE02

Three Rows from the Multi–Column Chart

Properties Shown: Representative Glyphs, Lexical and Compatibility Mappings; **UVS Definitions** after Column **X** and **Y** Sources

Besides supporting lexical source separations and providing a standard mechanism for exploring problematic edge cases and contradictions, the system here described also provides backwards compatibility with all known legacy encodings of Tangut, including those based on 李范文 Lǐ Fànwén (1986: 龔煌城 Gong Hwang-cherng et al.; 1997: Кычанов & 荒川慎太郎 Arakawa 2006 [文字鏡研究会 Mojikyō Kenkyūkai]), 韓小忙 Hán Xiǎománg & Lǐ Fànwén (2004 [full text linked in the online property data]), and 景永时 Jǐng Yǒngshí et al. (2008). UVS definitions for Tangut are tabulated in full, together with lexical-source and compatibility mappings, in the UVS subset of the *Multi-Column Chart* given below. On the following pages we look at a case study to exemplify encoding principles.

Figure 1 above annotates three successive rows from the version of the *Tangut Multi-Column Chart* appearing at the end of this document. "Representative Sources" of the primary properties underlie the repertory and UVS definitions. Alpha-numeric property values (in the cells below each representative glyph) provide lexical-source and compatibility mappings. Column W mappings relate both to 李范文 Lǐ (1986) and to its *Academia Sinica* encoding (龚煌城 Gong Hwang-cherng, et al.) Column Z values such as "2.6562" map Mojikyo (Shift-JIS) "font.code", i.e. "M202:0x6562" (a glyph with no mapping beneath it is virtual for that source [as for Column X]).

Figure 1 illustrates some of the difficult property issues which UVS seeks to resolve. The Column X lexical source (Lǐ 1997) identifies two of these three characters (0215, 4537) as variants of the first (0042), by means of cross-references in the latter two entries. The structural "Four-Corner Code" (FCC) organizes the whole dictionary, and so each variant has a separate serial number. Legacy encodings also use Column X serializations, and so this property is distinctive for backwards compatibility with such encodings. The Column W source (Lǐ 1986) maps only characters occurring in indices based on hand-copies of one important native Tangut text, and so lacks many primary variants (occurring in other native manuscripts) and secondary variants (in the body of this 1986 work itself). The Column Y source (Hán 2004, compiled under the direction of Lǐ Fànwén; see the Figure 2 below) confirms

字形数	字形	资料来源	李号	索号	备注	字种	字种数
0029	𘚏	同音甲 22A54, 同音乙 23A37, *文海甲 ① 17.152, 文海甲 ③ 11.241, 文海乙 ① 14.703, 同义甲 1312.05	0042	0277	注②	𘚏	0028
0030	𘚏	文海甲 ① 47.211, 文海甲 ① 84.112	0215				
Figure 2		② 根据约定俗成、字形构造原则，𘚏 为正体。					

that two of the Lǐ (1997) forms (0042 and 0215) are attested in native manuscripts, but omits the third form (4537) as a "duplicate" of the first (with variant FCC property). Thus, only two forms are given in Column Y. The sequential Column Y serial numbers "0029" and "0030" (字形数 'GID'; left-most column in Figure 2 above) reflect assignment in that source to a single Base "0028" (字种数 'CID'; right-most column above). That is, Hán & Lǐ reckon in their 2004 study that these two forms are in fact variants of the same abstract character, assigned CID "0028". (Figure 2: Hán 2004: 23, 345 n. 2; Col. #4: Lǐ 1997; Col. #5: Софронов 1968.)

As we see here, the majority form is attested in all of the sources listed in the first row (GID=0029), while the minority form is only attested in the two locations listed in the second row (GID=0030). As the note "注②" explains, the majority (conventional) form justifies choice of the Base character's representative glyph (字种

正体). This example shows non-trivial and yet (for the most part) non-distinctive property variation, even within a *single* native Tangut manuscript (文海甲). Furthermore, it shows that we rely (here, as for the entire repertory) upon judgements of specific authorities evaluating primary sources for determination of abstract character classes and UVS property definitions.
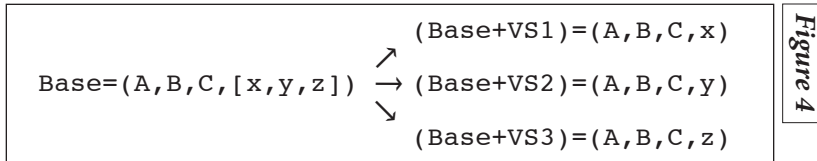
扁 **khji** 1.11 'open; (of the sun) shine upon' (敞開,暴曬) [Lǐ, 1997: 9]

Figure 3

Many details of the pronunciations, meanings, and other lexical-source properties of this and of other Tangut characters may be open to question, variously asserted and possibly contested among various authorities. Consider then that even a *single* lexical-source property difference (according to some authority at some career stage) might be seen as grounds for encoding a new character! Of course it is only prudent to pay close attention to all character properties, and any expert repertory of Tangut characters will be problematic from the perspective of variant character properties. Carefully defined and judiciously applied UVS provides the best means to respect the full range of authoritative opinions, and it is an ideal framework for long-term extensibility of the encoding. Lǐ Fànwén and Hán Xiǎománg are acknowledged pioneers in Tangut studies. Their work on Tangut characters and variants provides an elegant and scientific foundation that scholars may build upon in deciding the difficult graphological and linguistic issues for themselves.

Lexical-Source Properties and UVS

Some generalizations based on the previous example may help to clarify aspects of the lexical-source property model applied in the encoding of Tangut. Given a Base character with three defined UVS, let us write the lexical-source property assignments (mappings) for each of the four script entities as follows:

```
                                    (Base+VS1)=(A,B,C,x)
                              ↗
Base=(A,B,C,[x,y,z])  →  (Base+VS2)=(A,B,C,y)
                              ↘
                                    (Base+VS3)=(A,B,C,z)
```

Figure 4

Our hypothetical Base character has six lexical-source properties (`A,B,C,x,y,z`), each asserted by and associated with a specific authoritative lexical source. A representative glyph (at least one per script entity) is just one such property. The three properties (`x,y,z`) unified in the Base are clearly distinct in each UVS (tracking, for example, each representative glyph to its source).

From the perspective of the authoritative source behind a UVS definition, we have a Base with representative glyph, and three *essentially equivalent* glyph-variants of that Base. The essential equivalence is asserted by the authoritative source: *equivalence* here means that variant properties are unified (conflated) as non-distinctive; *essentially equivalent* means that the conflated properties are *variant* (according to the source, or else the authority would have seen no justification for unification).

A user of the bare Base (without any Variation Selector) may accept the unification, or propose disunification. A user might also choose a specific defined UVS, asserting preference for one set of properties over the others. Thus, the user has several options.

Definition of Base and UVS properties may reflect only a judgement of a high degree of similarity among property sets. Folding of properties (`x,y,z`) in the Base reflects judgement that these features may be non-distinctive for some purposes, according to interpretation of the sources. Separation of these properties by UVS addresses potential disagreement among authorities, reflecting different purposes or judgements.

Such fine-grained property-handling empowers users and may streamline encoding processes, aiding experts in resolving inconsistencies or contradictions evident in the authoritative sources upon which historical character encodings must be based. *Encoding a new Base or UVS may be done at any time, if the properties are felt to be sufficiently distinctive.* Users may choose among existing lexical-source properties, but they may also propose new characters and contribute new properties and foldings.

Extensible Lexical-Source Properties

Because of the fragmentary and variant nature of the primary Tangut source materials (manuscripts), and because of variation evident in secondary sources (early lexical lists and indices based largely on modern hand-copies of the original manuscripts), it is clear that the encoding process for Tangut must be open-ended (as it is for CJK). Characters and variants of various types (as determined by various authorities) will need to be encoded in the future, and their properties registered. And as researchers come to employ this encoding, they will require an increasing number of fine character properties.

In order to consolidate developing and naturally variant character properties in an extensible framework, the five fields (A-E) listed below outline basic structure for future submission of property data to the public Tangut property database.

```
(A) Code point or UVS (as available);

(B) other mapping(s) (as needed);

(C) 1 = encode separate character;
    0 = unify;

(D) if C = 1, justify encoding and method
            (new Base or UVS);
    if C = 0, justify, and propose unification
            (with reference to Base or UVS);

(E) additional property data, reference(s)
            (glyphs, etc., as needed).
```

Figure 5

Users may contribute property data of all kinds, to register expert opinions on encoded and unencoded primary and secondary Tangut characters and variants. Encoding a standard "problem statement" is a first necessary step toward achieving majority opinion among experts world-wide on larger property and repertory issues for Tangut. This is entirely analogous to the encoding process for CJK: the encoded CJK character set presents many very difficult issues, but without that encoding work there would as yet be no standard framework in which to work toward resolution of difficult encoding and linguistic issues.

UVS Requirements for Tangut

Application of variation sequences to address difficult aspects of the encoding of Tangut script requires at present only four encoded *Variation Selectors* (VS1..VS4) [U+FE00..U+FE03], assigned in relation to properties and mappings given in the *Multi-Column Chart.* Present UVS requirements for Tangut are as follows:

```
+-------------------------------------+
| Selector : VS1 | VS2 | VS3 | VS4 | TOT |
+=========+===========================+
|    Pairs : 282 + 282               = 564 |
| Triplets : 011 + 011 + 011         = 033 |
|  Quartet : 001 + 001 + 001 + 001 = 004 |
+----------+-------------------------===-+
|   Totals : 294 + 294 + 012 + 001 = 601 |
+=========+===========================+
|  5910 - 294 = 5616 ; 5616 + 601 = 6217 |
+-------------------------------------+
```

Figure 6

There are 6,217 rows in the full *Multi-Column Chart*, and a total of 5,910 potential Base characters (U+17000 .. U+18715). Of the 5,910, only 294 are defined in the following pages as participating in UVS. Of the 294, a total of 282 are "Pairs" involving two chart rows with the same Base, separated by means of two variation selectors (VS1,VS2); eleven are "Triplets" involving three adjacent chart rows, and three selectors (VS1..VS3); and only one involves a "Quartet" of separations (VS1..VS4). Representative glyph of the bare Base is that of Base+VS1 (assigned as described in the example above, Figure 1). Remaining members of each variant class are sequenced by Column Y serial number, and assigned (VS2..VS4) as needed.

References

Below are listed primary references relating to standardization and implementation of UCS Variation Sequences, and the encoding of Tangut script. For full references relating to Tangut property data, see the last item in this list.

• *The Unicode Standard 5.0.* § 16.4 "Variation Selectors". (p. 545-6, 914, 1018). *<http://www.unicode.org/versions/Unicode5.0.0/ch16.pdf#page=17>*

• *OpenType Specification.* "OpenType Tables: The *cmap* table: Format 14: Unicode Variation Sequences". *<http://www.microsoft.com/typography/otspec/cmap.htm>*

• *UTS #37: Ideographic Variation Database.* Muller & Hiura (2006). *<http://www.unicode.org/reports/tr37/>*

• *UAX #38: Unicode Han Database (UniHan).* Cook & Jenkins (2008). *<http://www.unicode.org/reports/tr38/>*

• *IVD Recommendation for IRG.* Cook & Lunde (2008). [IRGN1468 = L2/08-238] (Recommends that IRG submit IVD data to resolve Compatibility Character issues.) *<http://appsrv.cse.cuhk.edu.hk/~irg/irg/irg30/IRGN1468IVS_Recommendation.pdf>* *< http://www.unicode.org/L2/L2008/08238-irg-vs-rec.pdf >*

• *Tangut Encoding Project: Document Archive and Database.* *<http://stedt.berkeley.edu/~rscook/UTC/Tangut/>*

Multi-Column Chart of UVS Definitions

UVS definitions for Tangut are tabulated in full, together with lexical-source and compatibility mappings, in the UVS subset of the *Multi-Column Chart* given below (p. 9-20). For explanation of the chart format, please see the discussion of Figure 1 beginning on page 2 above.

W	X	Y	Z	G	UVS
0016	0017	0015	2.7CA5	07659	U+1700F VS1
	0486	0016	2.5411	052C3	U+1700F VS2
0035	0042	0029	2.6562	07677	U+1701C VS1
	0215	0030	2.53EB	076ED	U+1701C VS2
	4537		2.7F58	06C30	U+1701C VS3
	0057	0036	2.7BA1	07692	U+17022 VS1
5155	0232	0037	2.8105	0770E	U+17022 VS2
	4548		2.7F87	06C42	U+17022 VS3
0090	2971	0078	2.5B0B	04EA2	U+1704D VS1
	1972		2.7DCB	07C24	U+1704D VS2
	4544		2.7F82	079CB	U+1704D VS3
0102	1960	0079	2.5F7C	07C17	U+1704E VS1
	1975	0080	2.88AB	07C29	U+1704E VS2
	6071	0084		07E59	U+17052 VS1
0087	2941	0085	2.598D	0E034	U+17052 VS2
0084	3466	0086	2.6773	0803C	U+17053 VS1
	4720		2.8332	067D4	U+17053 VS2
0152	1893	0115	2.7E1B	09505	U+17070 VS1
	6072	0116		0E035	U+17070 VS2
0137	2832	0118	2.56F9	05377	U+17072 VS1
	4162		2.7696	05F6D	U+17072 VS2
0139	2957	0122	2.5A9A	06977	U+17076 VS1
	2940		2.59DC	07E58	U+17076 VS2
0159	2831	0136	2.56EE	07737	U+17084 VS1
	4159		2.7688	062A8	U+17084 VS2
0157	3462	0137	2.6772	08032	U+17085 VS1
	3496		2.66B8	08067	U+17085 VS2
0181	3467	0169	2.6635	0803E	U+170A6 VS1
	4722		2.8340	08339	U+170A6 VS2
0183	2987	0176	2.5B70	06E34	U+170AD VS1
	2922		2.5950	07E45	U+170AD VS2
0202	2921	0192	2.5955	07E44	U+170BD VS1
	2953	0193	2.5A35	05361	U+170BD VS2
0267	2597	0241	2.5195	056BC	U+170EE VS1
2695			2.53A6	07DBE	U+170EE VS2
	6021	6008		053A2	U+170F6 VS1
	6211	6009		0E0AC	U+170F6 VS2
	6020	6006		08237	U+170FC VS1
	6210	6007		095F2	U+170FC VS2
0348	0142	0252	2.7947	062D4	U+170FE VS1
	6073	0253		0E036	U+170FE VS2
	6025	6013		0817A	U+17107 VS1
	6212	6014		0E0AD	U+17107 VS2
0590	3488	0280	2.6698	0805F	U+1711E VS1
0589	3489	0280	2.669D	08060	U+1711E VS2
	6074	0284		0E026	U+17122 VS1
	1947	0285	2.98EF	07C05	U+17122 VS2
0599	2354	0286	2.5F79	07D1C	U+17122 VS3
0636	1949	0316	2.6669	07C08	U+17140 VS1
	6075	0317		0E037	U+17140 VS2
0630	3517	0329	2.6737	05784	U+1714C VS1

W	X	Y	Z	G	UVS
1981			2.6A0B	05784	U+1714C VS2
6076	0365			07E30	U+17170 VS1
0709	2903	0366	2.58EF	0E038	U+17170 VS2
0704	2395	0399	2.4E88	05373	U+17191 VS1
6077	0400			0E039	U+17191 VS2
0722	2356	0407	2.85AC	07D1E	U+17198 VS1
6078	0408			0E03A	U+17198 VS2
3476	0415		2.665D	0804F	U+1719F VS1
0670	3464	0416	2.6603	08039	U+1719F VS2
0730	2552	0425	2.5085	07D8B	U+171A8 VS1
6079	0426			0E03B	U+171A8 VS2
0288	3841	0445	2.6E1D	08187	U+171BB VS1
3837	0446		2.6E3A	08183	U+171BB VS2
0368	1159	0461	2.653F	079A6	U+171CB VS1
6080	0462			0E03C	U+171CB VS2
0379	1144	0469	2.88FE	07996	U+171D2 VS1
6081	0470			0E03D	U+171D2 VS2

W	X	Y	Z	G	UVS
1147	0471		2.5BF8	07999	U+171D3 VS1
0064	0472		2.839E	0769C	U+171D3 VS2
0284	3832	0474	2.6E2B	08175	U+171D3 VS3
6082	0473			0E03E	U+171D3 VS4
0389	1146	0484	2.647A	07998	U+171DD VS1
6083	0485			0E03F	U+171DD VS2
0380	0901	0489	2.53D4	08D50	U+171E1 VS1
6084	0490			0E040	U+171E1 VS2
0381	1189	0491	2.65A5	079D4	U+171E2 VS1
6085	0492			0E041	U+171E2 VS2
1432	0496		2.8131	04E4F	U+171E6 VS1
0399	6086	0497		0E042	U+171E6 VS2
0419	1068	0499	2.5BDD	05200	U+171E8 VS1
3827	0500		2.6E72	0816B	U+171E8 VS2
0408	1469	0510	2.7537	0532A	U+171F3 VS1
6087	0511			0E043	U+171F3 VS2
0404	1298	0517	2.635C	06387	U+171F9 VS1

W	X	Y	Z	G	UVS
6088	0518			0E044	U+171F9 VS2
0407	1550	0520	2.76F4	07AC7	U+171FB VS1
6089	0521			0E045	U+171FB VS2
0423	1459	0526	2.86CB	059A8	U+17202 VS1
6090	0527			0E046	U+17202 VS2
0429	1104	0531	2.8A0A	07B2C	U+17206 VS1
6091	0532			0E047	U+17206 VS2
0432	1377	0536	2.9A28	07A58	U+1720A VS1
6092	0537			0E048	U+1720A VS2
1181	0538		2.9759	079C7	U+1720B VS1
0433	6093	0539		0E049	U+1720B VS2
0436	1180	0543	2.9752	079C5	U+1720F VS1
6094	0544			0E04A	U+1720F VS2
0532	0439	0594	2.67AF	077B6	U+17241 VS1
6095	0595			0E04B	U+17241 VS2
0536	0431	0600	2.56FA	077A8	U+17247 VS1
0453	0601		2.9F13	077C7	U+17247 VS2

W	X	Y	Z	G	UVS
0537	0735	0602	2.65E8	051B2	U+17248 VS1
1521			2.5E16	07AA3	U+17248 VS2
2080	0603		2.4F0F	04E4E	U+17249 VS1
1537	4023		2.737B	081FF	U+17249 VS2
0796	3004	0670	2.5BE2	06263	U+1728E VS1
6096	0671			0E04C	U+1728E VS2
0875	2416	0716	2.7AAF	05FCC	U+172BB VS1
6097	0717			0E04D	U+172BB VS2
6032	6022			0E01F	U+172C4 VS1
6213	6023			07FA1	U+172C4 VS2
6035	6026			0E020	U+172DF VS1
6214	6027			08D24	U+172DF VS2
9991	3007	0753	2.5BEB	0E0B2	U+172E3 VS1
6098	0754			0E04E	U+172E3 VS2
0899	3524	0766	2.6789	06F0F	U+172F0 VS1
3002			2.5BE4	062A0	U+172F0 VS2
1222	0338	0786	2.643A	075F9	U+17306 VS1

W	X	Y	Z	G	UVS
6099	0787			0E04F	U+17306 VS2
0266		0810	2.887F	07742	U+1731E VS1
1242	0325	0811	2.5144	09F3B	U+1731E VS2
1318	6100	0838		0E027	U+1733A VS1
4039	0839		2.743A	0821A	U+1733A VS2
1268	1588	0856	2.505C	07AF8	U+1734B VS1
6101	0857			0E050	U+1734B VS2
2000	0919		2.8098	04EA5	U+1738C VS1
1552	6102	0920		0E051	U+1738C VS2
2722	2283	0925	2.6E4A	07CC3	U+17391 VS1
6103	0926			0E052	U+17391 VS2
3655	0930		2.69B1	080E2	U+17396 VS1
1559	6104	0931		0E053	U+17396 VS2
1598	3156	0970	2.5F73	08D56	U+173BD VS1
3271	0971		2.6196	07F92	U+173BD VS2
1621	3089	0975	2.5DF2	07E90	U+173C1 VS1
3350	0976		2.6302	051C9	U+173C1 VS2

W	X	Y	Z	G	UVS
1620	3088	0978	2.5DEB	07E8F	U+173C3 VS1
3233			2.60F6	07F5C	U+173C3 VS2
1623	3558	0979	2.68B3	06EE4	U+173C4 VS1
3658			2.6A14	080EE	U+173C4 VS2
1178	3822	1000	2.6DEE	08163	U+173D9 VS1
3953			2.71D7	05185	U+173D9 VS2
1174	3820	1004	2.6DD5	08161	U+173DD VS1
3814			2.6DE8	08158	U+173DD VS2
0937	5038	1033	2.8A52	065BD	U+173FA VS1
6105	1034			0E054	U+173FA VS2
0963	4768	1050	2.842A	08496	U+17409 VS1
6106	1049			0E055	U+17409 VS2
0976	5001	1065	2.896D	0855C	U+17418 VS1
0975	5002	1065	2.896A	0855D	U+17418 VS2
0947	4943	1067	2.883B	08506	U+1741A VS1
4863			2.86AF	05239	U+1741A VS2
1013	4951	1099	2.8881	0850F	U+1743B VS1

W	X	Y	Z	G	UVS
4862			2.86B6	06740	U+1743B VS2
4849	1133		2.863F	055D3	U+1745E VS1
1778	6107	1134		0E056	U+1745E VS2
1050	4807	1139	2.8540	084CE	U+17463 VS1
4970			2.88C4	08528	U+17463 VS2
6108	1140			0614E	U+17464 VS1
1056	4932	1141	2.880E	0E057	U+17464 VS2
1086	4754	1185	2.840B	08481	U+17491 VS1
6109	1186			0E058	U+17491 VS2
6110	1192			0E028	U+17496 VS1
1058	5050	1191	2.8A91	05B9E	U+17496 VS2
1090	4944	1194	2.8844	08507	U+17498 VS1
4864	1195		2.86C4	06C99	U+17498 VS2
1185	4852	1281	2.8654	09A9A	U+174F1 VS1
5153			2.8D14	085A6	U+174F1 VS2
1350	1444	1296	2.5606	051E1	U+17500 VS1
6111	1297			0E059	U+17500 VS2

W	X	Y	Z	G	UVS
1399	0921	1330	2.5FAA	07601	U+17521 VS1
6112	1331			0E05A	U+17521 VS2
1362		1335	2.4ED6	07A47	U+17525 VS1
1389	0583	1336	2.4ECA	077FB	U+17525 VS2
0507	1523	1388	2.5E81	07AA7	U+1755A VS1
6113	1389			0E05B	U+1755A VS2
1538	1398		2.8178	07ABA	U+17563 VS1
0849	3069	1399	2.5D73	07E7B	U+17563 VS2
0514	0430	1409	2.547C	077A6	U+1756E VS1
0452	1410		2.9867	077C6	U+1756E VS2
1407	4069	1425	2.7504	08255	U+1757E VS1
4066			2.74F1	08252	U+1757E VS2
1192	1480		2.77F3	079D9	U+175B5 VS1
1426	6114	1481		0E05C	U+175B5 VS2
1827	0162	1492	2.8650	06273	U+175C0 VS1
0202			2.4EA8	076DE	U+175C0 VS2
6115	1548			07AFC	U+175F8 VS1

W	X	Y	Z	G	UVS
1837	1590	1549	2.5243	0E05D	U+175F8 VS2
2284	4383	1569	2.7BF7	08355	U+1760C VS1
4206	1570		2.779E	0829E	U+1760C VS2
2317	4142	1608	2.7646	05228	U+17632 VS1
6116	1609			0E05E	U+17632 VS2
2635	5944	1611	3.7AAA	087F6	U+17634 VS1
5947	1612		3.7C82	087FA	U+17634 VS2
2321	4384	1613	2.7C17	08356	U+17635 VS1
4224	1614		2.7926	082D0	U+17635 VS2
2308	4412	1622	2.7CAB	0838F	U+1763D VS1
6117	1623			0E05F	U+1763D VS2
4153	1629		2.7672	0E029	U+17643 VS1
2347	6118	1630		0914D	U+17643 VS2
2520	1656		2.4FD1	07D69	U+1765D VS1
2638	6119	1657		08964	U+1765D VS2
2385	4332	1670	2.7B06	07011	U+1766A VS1
2345	4333	1670	2.7B33	0671F	U+1766A VS2

W	X	Y	Z	G	UVS
2401	4408	1710	2.7C90	0838A	U+17692 VS1
	4415		2.7CB3	08394	U+17692 VS2
2438	6120	1753		0E02A	U+176BE VS1
	4330	1754	2.7B0F	08C31	U+176BE VS2
2588	4260	1878	2.795F	0831F	U+1773C VS1
2587	4261		2.795A	08320	U+1773C VS2
2561	4128	1880	2.760B	06F58	U+1773E VS1
	6121	1881		0E060	U+1773E VS2
2581	4093	1882	2.7578	06D53	U+1773F VS1
	6122	1883		0E061	U+1773F VS2
2611	4233	1907	2.788C	082EA	U+17758 VS1
	6123	1908		0E062	U+17758 VS2
1919	0815	1919	2.8D66	078DB	U+17765 VS1
	6124	1920		0E063	U+17765 VS2
1923	1855	1924	2.676F	06302	U+17769 VS1
	6125	1925		0E064	U+17769 VS2
2074	4534	1986	2.7F51	06E05	U+177A6 VS1

W	X	Y	Z	G	UVS
4514			2.8FAE	08304	U+177A6 VS2
2102	4512	2020	2.7DD5	07A8D	U+177C8 VS1
	6126	2021		0E065	U+177C8 VS2
0534		2036	2.8154	07749	U+177D7 VS1
1458	0271		2.541F	07CD9	U+177D7 VS2
1440	1666	2046	2.90FD	06562	U+177E1 VS1
1439	1667	2046	2.934D	08D63	U+177E1 VS2
2661	4591	2081	2.8068	08420	U+17806 VS1
	2840		2.5713	089C9	U+17806 VS2
2664	3029	2086	2.5C6E	07736	U+1780B VS1
	3225	2087	2.5FF0	05386	U+1780B VS2
2663	3072	2088	2.5D84	07E7E	U+1780C VS1
	3363	2089	2.6376	07597	U+1780C VS2
9992	3044	2091	2.5CC7	07E62	U+1780F VS1
	6127	2092		0E066	U+1780F VS2
	2844	2093	2.571C	05747	U+17810 VS1
2665	6128	2094		0E067	U+17810 VS2

W	X	Y	Z	G	UVS
2667	3076	2095	2.5DAC	07E83	U+17811 VS1
	6129	2096		0E068	U+17811 VS2
4583	2026	2097	2.82D7	0568E	U+17812 VS1
	6130	2098		0E069	U+17812 VS2
2669	2051	2099	2.6016	08D3A	U+17813 VS1
	6131	2100		0E06A	U+17813 VS2
4586	2027	2101	2.9328	08C6A	U+17814 VS1
	2350		2.91CE	07D18	U+17814 VS2
2674	2420	2104	2.84C9	07EAA	U+17817 VS1
	6132	2105		0E06B	U+17817 VS2
2672	3054	2108	2.5D17	07E6C	U+1781A VS1
	3325	2109	2.6292	07FE3	U+1781A VS2
2671	3003	2110	2.5BE6	053E3	U+1781B VS1
	3112	2111	2.5E7F	07F10	U+1781B VS2
2676	2578	2117	2.513B	06C5F	U+17821 VS1
	2608	2118	2.51B0	0527F	U+17821 VS2
2682	2003	2122	2.7562	09163	U+17825 VS1

W	X	Y	Z	G	UVS
6133	2123			0E06C	U+17825 VS2
2683	2592	2124	2.518C	04EA4	U+17826 VS1
2659			2.52E6	06D78	U+17826 VS2
2783	3619	2149	2.6930	08090	U+1783F VS1
3560	2150		2.6859	05CE6	U+1783F VS2
3191			2.600F	0956D	U+17841 VS1
2798	3114	2152	2.5EC1	07F37	U+17841 VS2
2817	3797	2190	2.6D79	0547D	U+17867 VS1
2816	3798	2190	2.6D59	08C2C	U+17867 VS2
2925	2630	2277	2.524F	07ED3	U+178BF VS1
2610			2.51BD	09175	U+178BF VS2
6134		2299		08C62	U+178D5 VS1
2996	2216	2300	2.8C8C	0E06D	U+178D5 VS2
2989	3259	2338	2.6159	07F83	U+178FB VS1
6135		2339		0E06E	U+178FB VS2
3220	6136	2453		0E02B	U+1796E VS1
3781		2454	2.6CEA	06E3A	U+1796E VS2

W	X	Y	Z	G	UVS
3129	3147	2466	2.5F4C	05783	U+1797A VS1
	2619	2467	2.51F5	08857	U+1797A VS2
3107	3780	2470	2.6CD9	079D2	U+1797D VS1
	6137	2471		0E06F	U+1797D VS2
3098	3129	2476	2.5EF1	07F4B	U+17982 VS1
	6138	2477		0E070	U+17982 VS2
2762	3270	2510	2.6199	07F91	U+179A3 VS1
	6139	2509		0E071	U+179A3 VS2
3081	3117	2518	2.5ED0	07F3C	U+179AB VS1
	6140	2519		0E072	U+179AB VS2
3216	2221	2541	2.982C	08352	U+179C2 VS1
	2807		2.5664	09A79	U+179C2 VS2
3258	2078	2591	2.847A	0540E	U+179F5 VS1
	2227	2592	2.6734	07687	U+179F5 VS2
3171	6000		3.8FCE	07F5B	U+17A03 VS1
	3232	2606	2.6106	07F5B	U+17A03 VS2
3242	3326	2626	2.6293	075E2	U+17A17 VS1

W	X	Y	Z	G	UVS
	3145		2.5F41	05ED3	U+17A17 VS2
	3141	2637	2.5F16	06346	U+17A22 VS1
	2124		2.50FB	07C66	U+17A22 VS2
3262	2455	2638	2.540F	062E3	U+17A22 VS3
2741	3093	2704	2.5E19	07E94	U+17A66 VS1
	3181	2705	2.6060	07262	U+17A66 VS2
2746	3096	2711	2.5E36	07E97	U+17A6C VS1
	3276		2.618A	07F98	U+17A6C VS2
2751	3098	2715	2.5E44	07E99	U+17A70 VS1
	3182		2.6019	08001	U+17A70 VS2
2750	3561	2716	2.6863	0631B	U+17A71 VS1
	3691		2.6ADE	0812A	U+17A71 VS2
2761	2062	2724	2.8B5C	06052	U+17A79 VS1
	6141	2725		0E073	U+17A79 VS2
2698	4742	2747	2.8373	06D12	U+17A8F VS1
	6142	2748		0E074	U+17A8F VS2
1638	3857	2792	2.6EC2	0819F	U+17ABA VS1

W	X	Y	Z	G	UVS
6143	2791			0E075	U+17ABA VS2
1640	3945	2798	2.7156	056CA	U+17AC0 VS1
	3944	2799	2.714C	096BE	U+17AC0 VS2
1652	3922	2812	2.7063	05E55	U+17ACD VS1
	3930		2.70AE	062FF	U+17ACD VS2
0287	6144	2821		051DD	U+17AD6 VS1
	3988		2.7296	0E076	U+17AD6 VS2
	4009	2822	2.7334	081E9	U+17AD6 VS3
1697	5510	2870	3.79D1	08675	U+17B07 VS1
	5496	2871	3.4E0B	0773A	U+17B07 VS2
1736	5110	2912	2.8C4C	08700	U+17B30 VS1
	5361		3.8328	0862F	U+17B30 VS2
1484	5845	2919	3.4F9B	0545C	U+17B37 VS1
	5836		3.8A31	08717	U+17B37 VS2
1491	5841	2923	3.9B5A	05367	U+17B3B VS1
	5197	2924	2.8E55	085E0	U+17B3B VS2
1496	5834	2928	3.6E20	0631D	U+17B3F VS1

W	X	Y	Z	G	UVS
	5174		2.8DFC	085C3	U+17B3F VS2
1495	5835	2928	3.865A	074EE	U+17B3F VS3
1490	5846	2929	3.4FA0	094A8	U+17B40 VS1
	5837	2930	3.8DDD	06DA1	U+17B40 VS2
1497	5895	2931	3.9326	087B7	U+17B41 VS1
	6145	2932		0E077	U+17B41 VS2
1503	5980	2944	3.666F	07EC6	U+17B4D VS1
	6146	2945		07A00	U+17B4D VS2
1504	5912	2946	3.9280	087CE	U+17B4E VS1
	5446	2947	3.6CBF	0819B	U+17B4E VS2
1516	5842	2955	3.4EA8	063E1	U+17B57 VS1
	5198	2956	2.8E76	085E1	U+17B57 VS2
1805	5327	2977	3.56F2	08609	U+17B6D VS1
	6147	2978		0E078	U+17B6D VS2
1813	5185	2988	2.8E34	085D1	U+17B77 VS1
	5240		2.8F39	08BF4	U+17B77 VS2
1821	5187	2997	2.8E47	085D4	U+17B80 VS1

W	X	Y	Z	G	UVS
	5597		3.920E	08711	U+17B80 VS2
1997	1878	3063	2.4F2F	05F52	U+17BC3 VS1
	0608		2.7473	0782E	U+17BC3 VS2
2180	1157	3099	2.6027	079A4	U+17BE7 VS1
	6148	3100		0E079	U+17BE7 VS2
1471		3159	2.5024	05420	U+17C22 VS1
2231	6149	3160		0E07A	U+17C22 VS2
	3400	3254	2.64BC	05CAD	U+17C81 VS1
3592	6150	3255		0E07B	U+17C81 VS2
1493		3278	2.8336	067AB	U+17C99 VS1
0483	1505	3279	2.8877	051E4	U+17C99 VS2
0246	3396	3281	2.6493	07F9A	U+17C9B VS1
	3428		2.652B	07FF2	U+17C9B VS2
	6151	3305		0E02C	U+17CB3 VS1
4164	0103	3306	2.5FCC	054C0	U+17CB3 VS2
3871	1383	3357	2.5E2F	07A5E	U+17CE6 VS1
3870	1384		2.5F85	07A5F	U+17CE6 VS2

W	X	Y	Z	G	UVS	W	X	Y	Z	G	UVS	W	X	Y	Z	G	UVS
4340	0541	3364	2.8CA2	0518C	U+17CED VS1	0895			2.6C41	08F9E	U+17D3C VS2		2358	3588	2.8E8D	07D21	U+17DD6 VS1
4339	0542	3364	2.8CFC	06D4B	U+17CED VS2	4266	4483	3445	2.7E23	09063	U+17D42 VS1	4473	6156	3589		0E080	U+17DD6 VS2
4334	0346	3367	2.7D4C	0907F	U+17CF0 VS1		6153	3446		0E07D	U+17D42 VS2	1686	3393	3622	2.644E	09F84	U+17DF7 VS1
4333	0347	3367	2.7D99	0965B	U+17CF0 VS2	3911	1605	3473	2.6C40	07B17	U+17D63 VS1		6157	3623		0E081	U+17DF7 VS2
4343	1871	3371	2.8CE0	05149	U+17CF4 VS1	1665			2.9014	079C6	U+17D63 VS2	4597	3728	3624	2.6B9E	06885	U+17DF8 VS1
4362	1872	3371	2.966A	05E7F	U+17CF4 VS2	0555		3477	2.52AB	08BE7	U+17D67 VS1		6158	3625		0E082	U+17DF8 VS2
0115	1131	3396	2.9AC4	0540A	U+17D12 VS1	3965	0533	3478	2.80B1	064CD	U+17D67 VS2	4591	4035	3627	2.746F	08216	U+17DFA VS1
	2985		2.5B65	054B3	U+17D12 VS2	0316		3480	2.7FA4	0672C	U+17D69 VS1		6159	3628		0E083	U+17DFA VS2
0174	1039	3397	2.6756	07989	U+17D13 VS1	3964	0256	3481	2.65A4	07730	U+17D69 VS2	4593	4036	3631	2.7425	08217	U+17DFD VS1
	2943		2.59DA	07E5B	U+17D13 VS2	3944	0406	3514	2.8ED2	07783	U+17D8B VS1		6160	3632		0E084	U+17DFD VS2
4463	0514	3398	2.6897	08D22	U+17D14 VS1	3945	0407	3514	2.9063	07786	U+17D8B VS2	4499	3337	3653	2.64D4	08FDE	U+17E12 VS1
	2388		2.8A98	08F91	U+17D14 VS2		6154	3533		096CC	U+17DA0 VS1	4500	3338	3653	2.62C8	09570	U+17E12 VS2
4466	0213	3399	2.5321	076EB	U+17D15 VS1	4327	0894	3534	2.67D4	0E07E	U+17DA0 VS2		6057	6050		054B8	U+17E2C VS1
	1957		2.5426	07C13	U+17D15 VS2	4328	0276	3538	2.533A	0774E	U+17DA4 VS1		6215	6051		0E0AE	U+17E2C VS2
4222	5491	3408	3.5378	08214	U+17D1E VS1		2099		2.58B3	07C4C	U+17DA4 VS2	4528	2687	3682	2.5369	07DB6	U+17E30 VS1
	6152	3409		0E07C	U+17D1E VS2		0623	3579	2.5BB0	07849	U+17DCE VS1		2622		2.520B	052AB	U+17E30 VS2
4267	4491	3439	2.7E46	0545B	U+17D3C VS1	0042	6155	3580		0E07F	U+17DCE VS2	4564	3247	3715	2.6127	07F73	U+17E51 VS1

W	X	Y	Z	G	UVS
6161	3716			0E085	U+17E51 VS2
2905	3435	3751	2.6548	07FFA	U+17E75 VS1
3348	3436	3751	2.6556	07FFD	U+17E75 VS2
3358	2342	3759	2.7D0B	07D10	U+17E7D VS1
	2545	3760	2.5048	07D84	U+17E7D VS2
2773	3831	2.558A		09759	U+17EC5 VS1
3437	3137		2.5F5D	06127	U+17EC5 VS2
3464	2593	3859	2.5189	090CA	U+17EE2 VS1
	6162	3860		0E086	U+17EE2 VS2
3471	2252	3877	2.69D9	06C47	U+17EF3 VS1
3472	2253	3877	2.5E55	08BB3	U+17EF3 VS2
3491	3683	3903	2.6A97	08122	U+17F0D VS1
3492	3684	3903	2.8617	08123	U+17F0D VS2
3533	2175	3922	2.6367	07CAC	U+17F21 VS1
	2146		2.8217	07C81	U+17F21 VS2
	2451	3924	2.85CD	068C0	U+17F23 VS1
3537	6163	3925		06D17	U+17F23 VS2

W	X	Y	Z	G	UVS
3511	3297	3940	2.61FD	07FB7	U+17F32 VS1
	6164	3941		0E087	U+17F32 VS2
3561	3709	3971	2.98EE	076F2	U+17F50 VS1
	3694	3972	2.6AAA	0812E	U+17F50 VS2
3706	3877	4028	2.6F81	081B8	U+17F88 VS1
	3880	4029	2.6F5B	081BD	U+17F88 VS2
	4003	4044	2.500F	081E1	U+17F98 VS1
3738	4005		2.730A	081E4	U+17F98 VS2
3642	5310	4063	3.9B8E	04ED6	U+17FAA VS1
	6165	4062		09699	U+17FAA VS2
3803	5880	4140	3.4EF0	0563B	U+17FF7 VS1
3802	5881	4140	3.51DD	05438	U+17FF7 VS2
3801	5878	4141	3.9957	077FD	U+17FF8 VS1
	5899		3.7434	087BC	U+17FF8 VS2
	6166	4167		08965	U+18011 VS1
3829	5993	4166	3.8A08	088AD	U+18011 VS2
3754	5599	4178	3.5687	08716	U+1801C VS1

W	X	Y	Z	G	UVS
6167	4179			0E088	U+1801C VS2
6168	4274			058C1	U+1807F VS1
3877	0344	4275	2.7A3D	0E089	U+1807F VS2
3995	1850	4282	2.4FF3	096C7	U+18086 VS1
	6169	4283		0E08A	U+18086 VS2
4378	1317	4297	2.8061	06076	U+18095 VS1
4374	1318	4297	2.8349	05384	U+18095 VS2
4395	1355	4302	2.63C3	07A3E	U+1809A VS1
	1217		2.5343	0E033	U+1809A VS2
4387	1734	4309	2.8404	07B59	U+180A1 VS1
4388	1735	4309	2.9053	07B5C	U+180A1 VS2
4380	1296	4311	2.60E3	076FE	U+180A4 VS1
	1151		2.662F	0799E	U+180A4 VS2
6170	4342			08239	U+180C6 VS1
4431	0868	4343	2.62FE	0E08B	U+180C6 VS2
4427	0342	4344	2.6E13	05FC5	U+180C7 VS1
6171	4345			0E08C	U+180C7 VS2

W	X	Y	Z	G	UVS
4432	0259	4350	2.7434	07733	U+180CD VS1
	0345	4351	2.7CFB	081C2	U+180CD VS2
	6062	6056		09576	U+180D3 VS1
	6216	6057		0E0AF	U+180D3 VS2
	0987	4382	2.68A2	07935	U+180EE VS1
4125	0490	4383	2.57A2	04F2F	U+180EE VS2
4079	0525	4423	2.7CE0	0E000	U+18115 VS1
	6172	4422		0E08D	U+18115 VS2
	2046	4493	2.5A66	06CB3	U+1815C VS1
0247	6173	4494		0E08E	U+1815C VS2
	0607	4505	2.6C99	0782B	U+18168 VS1
5023	6174	4506		0E08F	U+18168 VS2
5098	0786	4516	2.9D2B	078AE	U+18172 VS1
	0076		2.8218	076A9	U+18172 VS2
5147	0515	4520	2.69CB	0776C	U+18176 VS1
	2390		2.9091	096C6	U+18176 VS2
	0193	4523	2.6319	076C9	U+18179 VS1

W	X	Y	Z	G	UVS
5150	6175	4524		0E090	U+18179 VS2
0096	0184	4526	2.7CFE	0508D	U+1817B VS1
	1919		2.9CE9	07BE0	U+1817B VS2
	4510		2.7E7B	05CED	U+1817B VS3
0134	0644	4527	2.6750	07866	U+1817C VS1
	2553		2.50B4	07D8C	U+1817C VS2
0116	1134	4528	2.6570	08DCC	U+1817D VS1
	2988		2.5B73	0514B	U+1817D VS2
	4624		2.8146	0844B	U+1817D VS3
	0671	4530	2.7B39	0507F	U+1817F VS1
0153	2572		2.5114	06DA7	U+1817F VS2
	4578		2.8019	0840A	U+1817F VS3
	3444	4562	2.6582	0800E	U+1819D VS1
5146	3447	4563	2.659B	08013	U+1819D VS2
4991	5819	4693	3.7403	05C09	U+1821E VS1
	5826		3.65E7	095FB	U+1821E VS2
4670	5190	4735	2.8E50	085D8	U+1824A VS1

W	X	Y	Z	G	UVS
4671	5191	4735	2.8E48	085D9	U+1824A VS2
4874	5096	4768	2.8B74	06292	U+1826C VS1
	5152	4769	2.8CCD	085A5	U+1826C VS2
	5263	4780	2.8FEF	09882	U+18277 VS1
4883	6176	4781		05323	U+18277 VS2
4888	5506	4786	3.590F	08670	U+1827C VS1
	5266	4787	2.9005	08BBC	U+1827C VS2
4692	5802	4866	3.8650	082C7	U+182CE VS1
	6177	4867		0E091	U+182CE VS2
4769	5404	4942	3.4E91	08665	U+18319 VS1
	5373		3.80E4	0863D	U+18319 VS2
3765	5764	4970	3.8CB4	08784	U+18335 VS1
	5729	4971	3.9854	08750	U+18335 VS2
4805	5206	4982	2.8E8A	085EB	U+18342 VS1
	6178	4983		0E092	U+18342 VS2
4845	5172	5005	2.8DDF	085C0	U+18358 VS1
	5231	5006	2.8F19	0723D	U+18358 VS2

W	X	Y	Z	G	UVS
6068	6064			09669	U+1835C VS1
6217	6065			0E0B0	U+1835C VS2
5311	5033		3.6216	05B83	U+18375 VS1
4917	6179	5034		0971E	U+18375 VS2
5102	1037	5048	2.64FE	07987	U+18383 VS1
6180	5049			0E093	U+18383 VS2
5104	1132	5050	2.5D07	09493	U+18384 VS1
6181	5051			0E094	U+18384 VS2
5103	0645	5052	2.7F6A	07867	U+18385 VS1
6182	5053			0E095	U+18385 VS2
5120	1389	5071	2.6CF0	07A64	U+18397 VS1
6183	5072			0E096	U+18397 VS2
5132	0242	5076	2.5C2D	07718	U+1839B VS1
6184	5077			0E097	U+1839B VS2
5085	6185	5109		0559C	U+183BA VS1
1186	5110		2.5E2D	079CF	U+183BA VS2
5051	0187	5150	2.725B	080DE	U+183E2 VS1

W	X	Y	Z	G	UVS
0647	5151		2.51B4	07869	U+183E2 VS2
5538	1106	5188	2.9663	05F1F	U+18408 VS1
5537	1107	5188	2.976D	09012	U+18408 VS2
5607	0638	5241	2.83DC	07860	U+1843D VS1
6186	5242			0E098	U+1843D VS2
0982	5243		2.6607	0792F	U+1843E VS1
5605	6187	5244		0E099	U+1843E VS2
6188	5295			0E02D	U+18471 VS1
5632	2276	5296	2.672A	07578	U+18471 VS2
6189	5303			0814E	U+18478 VS1
5185	3809	5304	2.6DB8	0E09A	U+18478 VS2
5406	5925	5325	3.5177	087DF	U+1848D VS1
5920			3.82E6	087D9	U+1848D VS2
5287	5777	5345	3.6280	08796	U+184A3 VS1
5348	5346		3.907A	08620	U+184A3 VS2
5318	5173	5364	2.8DE3	085C2	U+184B5 VS1
5232	5365		2.8F13	08C01	U+184B5 VS2

W	X	Y	Z	G	UVS
5281	5370		3.4E9C	05BBF	U+184BA VS1
1190	6190	5371		0E09B	U+184BA VS2
5415	5873	5375	3.8208	06614	U+184BE VS1
6191	5376			0E09C	U+184BE VS2
5375	5010	5431	2.8993	08567	U+184F7 VS1
6192	5432			0E09D	U+184F7 VS2
5550	0985	5593	2.6676	07932	U+1859B VS1
6193	5594			0E09E	U+1859B VS2
0451	5613		2.96C7	0E02E	U+185AE VS1
5618	6194	5614		077C5	U+185AE VS2
1430	0664	5617	2.67F5	07881	U+185B1 VS1
6195	5618			0E09F	U+185B1 VS2
2629	4441	5632	2.7D2E	083C6	U+185BF VS1
6196	5633			0E0A0	U+185BF VS2
6197	5640			0796B	U+185C6 VS1
5717	1018	5641	2.8CDE	0E0A1	U+185C6 VS2
0332	4554	5644	2.7FA3	086C6	U+185C9 VS1

Column 1

W	X	Y	Z	G	UVS
	1984		2.5C3E	07C33	U+185C9 VS2
0523	5645	2.786C		08695	U+185CA VS1
4549	5646	2.7F8C		056DA	U+185CA VS2
0186	4565		2.7FD5	083F6	U+185CA VS3
	6198	5671		08452	U+185E6 VS1
5687	4630	5672	2.816E	0E0A2	U+185E6 VS2
5745	2402	5673	2.5E7C	084DF	U+185E7 VS1
	6199	5674		0620F	U+185E7 VS2
2643	2298	5762	2.690B	07CDD	U+18640 VS1
	2299		2.5A7F	07CDE	U+18640 VS2
2298	4423	5769	2.7CC2	083A1	U+18647 VS1
	4278	5770	2.79EC	075B2	U+18647 VS2
2621	4456	5779	2.7D5B	083DE	U+18650 VS1
2622	4457	5779	2.7D8F	083E2	U+18650 VS2
5769	5904	5823	3.82B9	087C3	U+1867D VS1
	6200	5824		0E0A3	U+1867D VS2
5783	0156	5865	2.7827	08D25	U+186A9 VS1

Column 2

W	X	Y	Z	G	UVS
6201	5866			0E0A4	U+186A9 VS2
5784	1580	5867	2.5B2C	07AF0	U+186AA VS1
6202	5868			0E0A5	U+186AA VS2
0359	0676	5881	2.62F6	05531	U+186B7 VS1
0079	5882		2.5CB8	076AC	U+186B7 VS2
4993	5805	5900	3.4E45	04F1F	U+186CB VS1
	5863	5901	3.606D	04FAE	U+186CB VS2
	6203	5903		0E02F	U+186CC VS1
4994	5908	5902	3.8B39	087C8	U+186CC VS2
5808	0002	5940	2.53F6	07646	U+186F2 VS1
	6204	5941		0E0A6	U+186F2 VS2
5809	1581	5942	2.7D2C	07AF1	U+186F3 VS1
	6205	5943		0E0A7	U+186F3 VS2
5810	0741	5944	2.7949	07574	U+186F4 VS1
	6206	5945		0E0A8	U+186F4 VS2
2632	4453	5946	2.7D63	083D9	U+186F5 VS1
	6207	5947		0E0A9	U+186F5 VS2

Column 3

W	X	Y	Z	G	UVS
1429	1031	5958	2.57CE	0797D	U+18700 VS1
	6208	5959		0E0AA	U+18700 VS2
5390	5309	5966	3.7DBE	0584C	U+18707 VS1
	6209	5967		0E0AB	U+18707 VS2
5393	5787	5977	3.63AC	087A2	U+18711 VS1
	5794		3.6A58	08FDD	U+18711 VS2