

### $U_3(11).3 \pmod{3}$

	blocks	defect	matrix
3.G :	1	4	$24 \times 3$
	2	3	$27 \times 2$
	3	3	$27 \times 2$
	$4 = \overline{3}$	3	$27 \times 2$
	5	3	$27 \times 1$
	6	2	$9 \times 1$
	$7 = \overline{6}$	2	$9 \times 1$
	8	2	$9 \times 1$
	9	2	$9 \times 1$
	10	2	$9 \times 1$
	11	2	$9 \times 1$
	12	2	$9 \times 1$
	$13 = \overline{12}$	2	$9 \times 1$
	14	2	$9 \times 1$
	$15 = \overline{14}$	2	$9 \times 1$
	16	2	$9 \times 1$
	$17 = \overline{16}$	2	$9 \times 1$
	18	2	$9 \times 1$

	blocks	defect	matrix
	$19 = \overline{18}$	2	$9 \times 1$
	20	2	$9 \times 1$
	$21 = \overline{20}$	2	$9 \times 1$
	22	2	$9 \times 1$
	$23 = \overline{22}$	2	$9 \times 1$
	24	2	$9 \times 1$
	$25 = \overline{24}$	2	$9 \times 1$
	26	2	$9 \times 1$
	$27 = \overline{26}$	2	$9 \times 1$
	28	2	$9 \times 1$
	$29 = \overline{28}$	2	$9 \times 1$
	30	2	$9 \times 1$
	$31 = \overline{30}$	2	$9 \times 1$
	32	2	$9 \times 1$
	$33 = \overline{32}$	2	$9 \times 1$
	34	2	$9 \times 1$
	$35 = \overline{34}$	2	$9 \times 1$

<b>Block 1:</b>	$\varphi_{1,0}$	$\varphi_{2,0}$	$\varphi_{6+}$
$1_1 = \chi_{1,0}$	1	.	.
$1_2 = \chi_{1,1}$	1	.	.
$1_3 = \chi_{1,2}$	1	.	.
$110_1 = \chi_{2,0}$	.	1	.
$110_2 = \chi_{2,1}$	.	1	.
$110_3 = \chi_{2,2}$	.	1	.
$1110_1 = \chi_{6+}$	.	.	1
$1331_1 = \chi_{18,0}$	1	2	1
$1331_2 = \chi_{18,1}$	1	2	1
$1331_3 = \chi_{18,2}$	1	2	1
$111_{10} = \chi_{49,0}$	1	1	.
$111_{11} = \chi_{49,1}$	1	1	.
$111_{12} = \chi_{49,2}$	1	1	.
$111_{13} = \chi_{49,0}^{*2}$	1	1	.
$111_{14} = \chi_{49,1}^{*2}$	1	1	.
$111_{15} = \chi_{49,2}^{*2}$	1	1	.
$1440_{37} = \chi_{53+}$	.	3	1
$1440_{38} = \chi_{53*2+}$	.	3	1
$1221_{10} = \chi_{62,0}$	1	1	1
$1221_{11} = \chi_{62,1}$	1	1	1
$1221_{12} = \chi_{62,2}$	1	1	1
$1221_{13} = \chi_{62,0}^{*2}$	1	1	1
$1221_{14} = \chi_{62,1}^{*2}$	1	1	1
$1221_{15} = \chi_{62,2}^{*2}$	1	1	1

$$\begin{aligned} \varphi_{1,0} &= 1_1 \\ \varphi_{2,0} &= 110_1 \\ \varphi_{6+} &= 1110_1 \end{aligned}$$

<b>Block 2:</b>	$\varphi_{3,0}$	$\varphi_{9,0}$
$111_1 = \chi_{3,0}$	1	.
$111_2 = \chi_{3,1}$	1	.
$111_3 = \chi_{3,2}$	1	.
$1110_2 = \chi_{9,0}$	.	1
$1110_3 = \chi_{9,1}$	.	1
$1110_4 = \chi_{9,2}$	.	1
$1221_1 = \chi_{15,0}$	1	1
$1221_2 = \chi_{15,1}$	1	1
$1221_3 = \chi_{15,2}$	1	1
$111_{16} = \chi_{50,0}$	1	.
$111_{17} = \chi_{50,1}$	1	.
$111_{18} = \chi_{50,2}$	1	.
$111_{19} = \chi_{50,0}^{*2}$	1	.
$111_{20} = \chi_{50,1}^{*2}$	1	.
$111_{21} = \chi_{50,2}^{*2}$	1	.
$1110_{20} = \chi_{56,0}$	.	1
$1110_{21} = \chi_{56,1}$	.	1
$1110_{22} = \chi_{56,2}$	.	1
$1110_{23} = \chi_{56,0}^{*2}$	.	1
$1110_{24} = \chi_{56,1}^{*2}$	.	1
$1110_{25} = \chi_{56,2}^{*2}$	.	1
$1221_{16} = \chi_{63,0}$	1	1
$1221_{17} = \chi_{63,1}$	1	1
$1221_{18} = \chi_{63,2}$	1	1
$1221_{19} = \chi_{63,0}^{*2}$	1	1
$1221_{20} = \chi_{63,1}^{*2}$	1	1
$1221_{21} = \chi_{63,2}^{*2}$	1	1

$$\begin{aligned} \varphi_{3,0} &= 111_1 \\ \varphi_{9,0} &= 1110_2 \end{aligned}$$

<b>Block 3:</b>	$\varphi_{4,0}$	$\varphi_{12,0}$
$111_4 = \chi_{4,0}$	1	.
$111_5 = \chi_{4,1}$	1	.
$111_6 = \chi_{4,2}$	1	.
$1110_{17} = \chi_{14,0}$	.	1
$1110_{18} = \chi_{14,1}$	.	1
$1110_{19} = \chi_{14,2}$	.	1
$1221_7 = \chi_{17,0}$	1	1
$1221_8 = \chi_{17,1}$	1	1
$1221_9 = \chi_{17,2}$	1	1
$111_{22} = \chi_{51,0}$	1	.
$111_{23} = \chi_{51,1}$	1	.
$111_{24} = \chi_{51,2}$	1	.
$111_{25} = \chi_{51,0}^{*5}$	1	.
$111_{26} = \chi_{51,1}^{*5}$	1	.
$111_{27} = \chi_{51,2}^{*5}$	1	.
$1110_{50} = \chi_{61,0}$	.	1
$1110_{51} = \chi_{61,1}$	.	1
$1110_{52} = \chi_{61,2}$	.	1
$1110_{53} = \chi_{61,0}^{*5}$	.	1
$1110_{54} = \chi_{61,1}^{*5}$	.	1
$1110_{55} = \chi_{61,2}^{*5}$	.	1
$1221_{28} = \chi_{65,0}$	1	1
$1221_{29} = \chi_{65,1}$	1	1
$1221_{30} = \chi_{65,2}$	1	1
$1221_{31} = \chi_{65,0}^{*5}$	1	1
$1221_{32} = \chi_{65,1}^{*5}$	1	1
$1221_{33} = \chi_{65,2}^{*5}$	1	1

$$\begin{aligned} \varphi_{4,0} &= 111_2 \\ \varphi_{12,0} &= 1110_5 \end{aligned}$$

<b>Block 4:</b>	$\varphi_{5,0}$	$\varphi_{11,0}$
$111_7 = \chi_{5,0}$	1	.
$111_8 = \chi_{5,1}$	1	.
$111_9 = \chi_{5,2}$	1	.
$1110_{14} = \chi_{13,0}$	.	1
$1110_{15} = \chi_{13,1}$	.	1
$1110_{16} = \chi_{13,2}$	.	1
$1221_4 = \chi_{16,0}$	1	1
$1221_5 = \chi_{16,1}$	1	1
$1221_6 = \chi_{16,2}$	1	1
$111_{28} = \chi_{52,0}$	1	.
$111_{29} = \chi_{52,1}$	1	.
$111_{30} = \chi_{52,2}$	1	.
$111_{31} = \chi_{52,0}^{*5}$	1	.
$111_{32} = \chi_{52,1}^{*5}$	1	.
$111_{33} = \chi_{52,2}^{*5}$	1	.
$1110_{44} = \chi_{60,0}$	.	1
$1110_{45} = \chi_{60,1}$	.	1
$1110_{46} = \chi_{60,2}$	.	1
$1110_{47} = \chi_{60,0}^{*5}$	.	1
$1110_{48} = \chi_{60,1}^{*5}$	.	1
$1110_{49} = \chi_{60,2}^{*5}$	.	1
$1221_{22} = \chi_{64,0}$	1	1
$1221_{23} = \chi_{64,1}$	1	1
$1221_{24} = \chi_{64,2}$	1	1
$1221_{25} = \chi_{64,0}^{*5}$	1	1
$1221_{26} = \chi_{64,1}^{*5}$	1	1
$1221_{27} = \chi_{64,2}^{*5}$	1	1

$$\begin{aligned} \varphi_{5,0} &= 111_3 \\ \varphi_{11,0} &= 1110_4 \end{aligned}$$

<b>Block 5:</b>	$\varphi_{10,0}$
$1110_5 = \chi_{10,0}$	1
$1110_6 = \chi_{10,1}$	1
$1110_7 = \chi_{10,2}$	1
$1110_8 = \chi_{11,0}$	1
$1110_9 = \chi_{11,1}$	1
$1110_{10} = \chi_{11,2}$	1
$1110_{11} = \chi_{12,0}$	1
$1110_{12} = \chi_{12,1}$	1
$1110_{13} = \chi_{12,2}$	1
$1110_{26} = \chi_{57,0}$	1
$1110_{27} = \chi_{57,1}$	1
$1110_{28} = \chi_{57,2}$	1
$1110_{29} = \chi_{57,0}^{*2}$	1
$1110_{30} = \chi_{57,1}^{*2}$	1
$1110_{31} = \chi_{57,2}^{*2}$	1
$1110_{32} = \chi_{58,0}$	1
$1110_{33} = \chi_{58,1}$	1
$1110_{34} = \chi_{58,2}$	1
$1110_{35} = \chi_{58,0}^{*5}$	1
$1110_{36} = \chi_{58,1}^{*5}$	1
$1110_{37} = \chi_{58,2}^{*5}$	1
$1110_{38} = \chi_{59,0}$	1
$1110_{39} = \chi_{59,1}$	1
$1110_{40} = \chi_{59,2}$	1
$1110_{41} = \chi_{59,0}^{*5}$	1
$1110_{42} = \chi_{59,1}^{*5}$	1
$1110_{43} = \chi_{59,2}^{*5}$	1

$$\varphi_{10,0} = 1110_3$$

<b>Block 6:</b>	$\varphi_{13,0}$
$1332_1 = \chi_{19,0}$	1
$1332_2 = \chi_{19,1}$	1
$1332_3 = \chi_{19,2}$	1
$1332_{55} = \chi_{66,0}$	1
$1332_{56} = \chi_{66,1}$	1
$1332_{57} = \chi_{66,2}$	1
$1332_{58} = \chi_{66,0}^{*5}$	1
$1332_{59} = \chi_{66,1}^{*5}$	1
$1332_{60} = \chi_{66,2}^{*5}$	1

$$\varphi_{13,0} = 1332_1$$

<b>Block 7:</b>	$\varphi_{14,0}$
$1332_4 = \chi_{20,0}$	1
$1332_5 = \chi_{20,1}$	1
$1332_6 = \chi_{20,2}$	1
$1332_{61} = \chi_{67,0}$	1
$1332_{62} = \chi_{67,1}$	1
$1332_{63} = \chi_{67,2}$	1
$1332_{64} = \chi_{67,0}^{*5}$	1
$1332_{65} = \chi_{67,1}^{*5}$	1
$1332_{66} = \chi_{67,2}^{*5}$	1

$$\varphi_{14,0} = 1332_2$$

<b>Block 8:</b>	$\varphi_{15,0}$
$1332_7 = \chi_{21,0}$	1
$1332_8 = \chi_{21,1}$	1
$1332_9 = \chi_{21,2}$	1
$1332_{67} = \chi_{68,0}$	1
$1332_{68} = \chi_{68,1}$	1
$1332_{69} = \chi_{68,2}$	1
$1332_{70} = \chi_{68,0}^{*11}$	1
$1332_{71} = \chi_{68,1}^{*11}$	1
$1332_{72} = \chi_{68,2}^{*11}$	1

$$\varphi_{15,0} = 1332_3$$

<b>Block 9:</b>	$\varphi_{16,0}$
$1332_{10} = \chi_{22,0}$	1
$1332_{11} = \chi_{22,1}$	1
$1332_{12} = \chi_{22,2}$	1
$1332_{73} = \chi_{69,0}$	1
$1332_{74} = \chi_{69,1}$	1
$1332_{75} = \chi_{69,2}$	1
$1332_{76} = \chi_{69,0}^{*11}$	1
$1332_{77} = \chi_{69,1}^{*11}$	1
$1332_{78} = \chi_{69,2}^{*11}$	1

$$\varphi_{16,0} = 1332_4$$

<b>Block 10:</b>	$\varphi_{17,0}$
$1332_{13} = \chi_{23,0}$	1
$1332_{14} = \chi_{23,1}$	1
$1332_{15} = \chi_{23,2}$	1
$1332_{79} = \chi_{70,0}$	1
$1332_{80} = \chi_{70,1}$	1
$1332_{81} = \chi_{70,2}$	1
$1332_{82} = \chi_{70,0}^{*11}$	1
$1332_{83} = \chi_{70,1}^{*11}$	1
$1332_{84} = \chi_{70,2}^{*11}$	1

$$\varphi_{17,0} = 1332_5$$

<b>Block 11:</b>	$\varphi_{18,0}$
$1332_{16} = \chi_{24,0}$	1
$1332_{17} = \chi_{24,1}$	1
$1332_{18} = \chi_{24,2}$	1
$1332_{85} = \chi_{71,0}$	1
$1332_{86} = \chi_{71,1}$	1
$1332_{87} = \chi_{71,2}$	1
$1332_{88} = \chi_{71,0}^{*11}$	1
$1332_{89} = \chi_{71,1}^{*11}$	1
$1332_{90} = \chi_{71,2}^{*11}$	1

$$\varphi_{18,0} = 1332_6$$

<b>Block 12:</b>	$\varphi_{19,0}$
$1332_{19} = \chi_{25,0}$	1
$1332_{20} = \chi_{25,1}$	1
$1332_{21} = \chi_{25,2}$	1
$1332_{91} = \chi_{72,0}$	1
$1332_{92} = \chi_{72,1}$	1
$1332_{93} = \chi_{72,2}$	1
$1332_{94} = \chi_{72,0}^{*41}$	1
$1332_{95} = \chi_{72,1}^{*41}$	1
$1332_{96} = \chi_{72,2}^{*41}$	1

$$\varphi_{19,0} = 1332_7$$



<b>Block 13:</b>	$\varphi_{20,0}$
$1332_{22} = \chi_{26,0}$	1
$1332_{23} = \chi_{26,1}$	1
$1332_{24} = \chi_{26,2}$	1
$1332_{97} = \chi_{73,0}$	1
$1332_{98} = \chi_{73,1}$	1
$1332_{99} = \chi_{73,2}$	1
$1332_{100} = \chi_{73,0}^{*41}$	1
$1332_{101} = \chi_{73,1}^{*41}$	1
$1332_{102} = \chi_{73,2}^{*41}$	1

$$\varphi_{20,0} = 1332_8$$

<b>Block 14:</b>	$\varphi_{21,0}$
$1332_{25} = \chi_{27,0}$	1
$1332_{26} = \chi_{27,1}$	1
$1332_{27} = \chi_{27,2}$	1
$1332_{103} = \chi_{74,0}$	1
$1332_{104} = \chi_{74,1}$	1
$1332_{105} = \chi_{74,2}$	1
$1332_{106} = \chi_{74,0}^{*41}$	1
$1332_{107} = \chi_{74,1}^{*41}$	1
$1332_{108} = \chi_{74,2}^{*41}$	1

$$\varphi_{21,0} = 1332_9$$

<b>Block 15:</b>	$\varphi_{22,0}$
$1332_{28} = \chi_{28,0}$	1
$1332_{29} = \chi_{28,1}$	1
$1332_{30} = \chi_{28,2}$	1
$1332_{109} = \chi_{75,0}$	1
$1332_{110} = \chi_{75,1}$	1
$1332_{111} = \chi_{75,2}$	1
$1332_{112} = \chi_{75,0}^{*41}$	1
$1332_{113} = \chi_{75,1}^{*41}$	1
$1332_{114} = \chi_{75,2}^{*41}$	1

$$\varphi_{22,0} = 1332_{10}$$

<b>Block 16:</b>	$\varphi_{23,0}$
$1332_{31} = \chi_{29,0}$	1
$1332_{32} = \chi_{29,1}$	1
$1332_{33} = \chi_{29,2}$	1
$1332_{115} = \chi_{76,0}$	1
$1332_{116} = \chi_{76,1}$	1
$1332_{117} = \chi_{76,2}$	1
$1332_{118} = \chi_{76,0}^{*41}$	1
$1332_{119} = \chi_{76,1}^{*41}$	1
$1332_{120} = \chi_{76,2}^{*41}$	1

$$\varphi_{23,0} = 1332_{11}$$

<b>Block 17:</b>	$\varphi_{24,0}$
$1332_{34} = \chi_{30,0}$	1
$1332_{35} = \chi_{30,1}$	1
$1332_{36} = \chi_{30,2}$	1
$1332_{121} = \chi_{77,0}$	1
$1332_{122} = \chi_{77,1}$	1
$1332_{123} = \chi_{77,2}$	1
$1332_{124} = \chi_{77,0}^{*41}$	1
$1332_{125} = \chi_{77,1}^{*41}$	1
$1332_{126} = \chi_{77,2}^{*41}$	1

$$\varphi_{24,0} = 1332_{12}$$

<b>Block 18:</b>	$\varphi_{25,0}$
$1332_{37} = \chi_{31,0}$	1
$1332_{38} = \chi_{31,1}$	1
$1332_{39} = \chi_{31,2}$	1
$1332_{127} = \chi_{78,0}$	1
$1332_{128} = \chi_{78,1}$	1
$1332_{129} = \chi_{78,2}$	1
$1332_{130} = \chi_{78,0}^{*41}$	1
$1332_{131} = \chi_{78,1}^{*41}$	1
$1332_{132} = \chi_{78,2}^{*41}$	1

$$\varphi_{25,0} = 1332_{13}$$

<b>Block 19:</b>	$\varphi_{26,0}$
$1332_{40} = \chi_{32,0}$	1
$1332_{41} = \chi_{32,1}$	1
$1332_{42} = \chi_{32,2}$	1
$1332_{133} = \chi_{79,0}$	1
$1332_{134} = \chi_{79,1}$	1
$1332_{135} = \chi_{79,2}$	1
$1332_{136} = \chi_{79,0}^{*41}$	1
$1332_{137} = \chi_{79,1}^{*41}$	1
$1332_{138} = \chi_{79,2}^{*41}$	1

$$\varphi_{26,0} = 1332_{14}$$

<b>Block 20:</b>	$\varphi_{27,0}$
$1332_{43} = \chi_{33,0}$	1
$1332_{44} = \chi_{33,1}$	1
$1332_{45} = \chi_{33,2}$	1
$1332_{139} = \chi_{80,0}$	1
$1332_{140} = \chi_{80,1}$	1
$1332_{141} = \chi_{80,2}$	1
$1332_{142} = \chi_{80,0}^{*41}$	1
$1332_{143} = \chi_{80,1}^{*41}$	1
$1332_{144} = \chi_{80,2}^{*41}$	1

$$\varphi_{27,0} = 1332_{15}$$

<b>Block 21:</b>	$\varphi_{28,0}$
$1332_{46} = \chi_{34,0}$	1
$1332_{47} = \chi_{34,1}$	1
$1332_{48} = \chi_{34,2}$	1
$1332_{145} = \chi_{81,0}$	1
$1332_{146} = \chi_{81,1}$	1
$1332_{147} = \chi_{81,2}$	1
$1332_{148} = \chi_{81,0}^{*41}$	1
$1332_{149} = \chi_{81,1}^{*41}$	1
$1332_{150} = \chi_{81,2}^{*41}$	1

$$\varphi_{28,0} = 1332_{16}$$

<b>Block 22:</b>	$\varphi_{29,0}$
$1332_{49} = \chi_{35,0}$	1
$1332_{50} = \chi_{35,1}$	1
$1332_{51} = \chi_{35,2}$	1
$1332_{151} = \chi_{82,0}$	1
$1332_{152} = \chi_{82,1}$	1
$1332_{153} = \chi_{82,2}$	1
$1332_{154} = \chi_{82,0}^{*41}$	1
$1332_{155} = \chi_{82,1}^{*41}$	1
$1332_{156} = \chi_{82,2}^{*41}$	1

$$\varphi_{29,0} = 1332_{17}$$

<b>Block 23:</b>	$\varphi_{30,0}$
$1332_{52} = \chi_{36,0}$	1
$1332_{53} = \chi_{36,1}$	1
$1332_{54} = \chi_{36,2}$	1
$1332_{157} = \chi_{83,0}$	1
$1332_{158} = \chi_{83,1}$	1
$1332_{159} = \chi_{83,2}$	1
$1332_{160} = \chi_{83,0}^{*41}$	1
$1332_{161} = \chi_{83,1}^{*41}$	1
$1332_{162} = \chi_{83,2}^{*41}$	1

$$\varphi_{30,0} = 1332_{18}$$

<b>Block 24:</b>	$\varphi_{31,0}$
$1440_1 = \chi_{37,0}$	1
$1440_2 = \chi_{37,1}$	1
$1440_3 = \chi_{37,2}$	1
$1440_{39} = \chi_{84,0}$	1
$1440_{40} = \chi_{84,1}$	1
$1440_{41} = \chi_{84,2}$	1
$1440_{42} = \chi_{84,0}^{*38}$	1
$1440_{43} = \chi_{84,1}^{*38}$	1
$1440_{44} = \chi_{84,2}^{*38}$	1

$$\varphi_{31,0} = 1440_1$$

<b>Block 25:</b>	$\varphi_{32,0}$
$1440_4 = \chi_{38,0}$	1
$1440_5 = \chi_{38,1}$	1
$1440_6 = \chi_{38,2}$	1
$1440_{45} = \chi_{85,0}$	1
$1440_{46} = \chi_{85,1}$	1
$1440_{47} = \chi_{85,2}$	1
$1440_{48} = \chi_{85,0}^{*38}$	1
$1440_{49} = \chi_{85,1}^{*38}$	1
$1440_{50} = \chi_{85,2}^{*38}$	1

$$\varphi_{32,0} = 1440_2$$

<b>Block 26:</b>	$\varphi_{33,0}$
$1440_7 = \chi_{39,0}$	1
$1440_8 = \chi_{39,1}$	1
$1440_9 = \chi_{39,2}$	1
$1440_{51} = \chi_{86,0}$	1
$1440_{52} = \chi_{86,1}$	1
$1440_{53} = \chi_{86,2}$	1
$1440_{54} = \chi_{86,0}^{*38}$	1
$1440_{55} = \chi_{86,1}^{*38}$	1
$1440_{56} = \chi_{86,2}^{*38}$	1

$$\varphi_{33,0} = 1440_3$$

<b>Block 27:</b>	$\varphi_{34,0}$
$1440_{10} = \chi_{40,0}$	1
$1440_{11} = \chi_{40,1}$	1
$1440_{12} = \chi_{40,2}$	1
$1440_{57} = \chi_{87,0}$	1
$1440_{58} = \chi_{87,1}$	1
$1440_{59} = \chi_{87,2}$	1
$1440_{60} = \chi_{87,0}^{*38}$	1
$1440_{61} = \chi_{87,1}^{*38}$	1
$1440_{62} = \chi_{87,2}^{*38}$	1

$$\varphi_{34,0} = 1440_4$$

<b>Block 28:</b>	$\varphi_{35,0}$
$1440_{13} = \chi_{41,0}$	1
$1440_{14} = \chi_{41,1}$	1
$1440_{15} = \chi_{41,2}$	1
$1440_{63} = \chi_{88,0}$	1
$1440_{64} = \chi_{88,1}$	1
$1440_{65} = \chi_{88,2}$	1
$1440_{66} = \chi_{88,0}^{*38}$	1
$1440_{67} = \chi_{88,1}^{*38}$	1
$1440_{68} = \chi_{88,2}^{*38}$	1

$$\varphi_{35,0} = 1440_5$$

<b>Block 29:</b>	$\varphi_{36,0}$
$1440_{16} = \chi_{42,0}$	1
$1440_{17} = \chi_{42,1}$	1
$1440_{18} = \chi_{42,2}$	1
$1440_{69} = \chi_{89,0}$	1
$1440_{70} = \chi_{89,1}$	1
$1440_{71} = \chi_{89,2}$	1
$1440_{72} = \chi_{89,0}^{*38}$	1
$1440_{73} = \chi_{89,1}^{*38}$	1
$1440_{74} = \chi_{89,2}^{*38}$	1

$$\varphi_{36,0} = 1440_6$$

<b>Block 30:</b>	$\varphi_{37,0}$
$1440_{19} = \chi_{43,0}$	1
$1440_{20} = \chi_{43,1}$	1
$1440_{21} = \chi_{43,2}$	1
$1440_{75} = \chi_{90,0}$	1
$1440_{76} = \chi_{90,1}$	1
$1440_{77} = \chi_{90,2}$	1
$1440_{78} = \chi_{90,0}^{*38}$	1
$1440_{79} = \chi_{90,1}^{*38}$	1
$1440_{80} = \chi_{90,2}^{*38}$	1

$$\varphi_{37,0} = 1440_7$$

<b>Block 31:</b>	$\varphi_{38,0}$
$1440_{22} = \chi_{44,0}$	1
$1440_{23} = \chi_{44,1}$	1
$1440_{24} = \chi_{44,2}$	1
$1440_{81} = \chi_{91,0}$	1
$1440_{82} = \chi_{91,1}$	1
$1440_{83} = \chi_{91,2}$	1
$1440_{84} = \chi_{91,0}^{*38}$	1
$1440_{85} = \chi_{91,1}^{*38}$	1
$1440_{86} = \chi_{91,2}^{*38}$	1

$$\varphi_{38,0} = 1440_8$$

<b>Block 32:</b>	$\varphi_{39,0}$
$1440_{25} = \chi_{45,0}$	1
$1440_{26} = \chi_{45,1}$	1
$1440_{27} = \chi_{45,2}$	1
$1440_{87} = \chi_{92,0}$	1
$1440_{88} = \chi_{92,1}$	1
$1440_{89} = \chi_{92,2}$	1
$1440_{90} = \chi_{92,0}^{*38}$	1
$1440_{91} = \chi_{92,1}^{*38}$	1
$1440_{92} = \chi_{92,2}^{*38}$	1

$$\varphi_{39,0} = 1440_9$$

<b>Block 33:</b>	$\varphi_{40,0}$
$1440_{28} = \chi_{46,0}$	1
$1440_{29} = \chi_{46,1}$	1
$1440_{30} = \chi_{46,2}$	1
$1440_{93} = \chi_{93,0}$	1
$1440_{94} = \chi_{93,1}$	1
$1440_{95} = \chi_{93,2}$	1
$1440_{96} = \chi_{93,0}^{*38}$	1
$1440_{97} = \chi_{93,1}^{*38}$	1
$1440_{98} = \chi_{93,2}^{*38}$	1

$$\varphi_{40,0} = 1440_{10}$$

<b>Block 34:</b>	$\varphi_{41,0}$
$1440_{31} = \chi_{47,0}$	1
$1440_{32} = \chi_{47,1}$	1
$1440_{33} = \chi_{47,2}$	1
$1440_{99} = \chi_{94,0}$	1
$1440_{100} = \chi_{94,1}$	1
$1440_{101} = \chi_{94,2}$	1
$1440_{102} = \chi_{94,0}^{*38}$	1
$1440_{103} = \chi_{94,1}^{*38}$	1
$1440_{104} = \chi_{94,2}^{*38}$	1

$$\varphi_{41,0} = 1440_{11}$$

<b>Block 35:</b>	$\varphi_{42,0}$
$1440_{34} = \chi_{48,0}$	1
$1440_{35} = \chi_{48,1}$	1
$1440_{36} = \chi_{48,2}$	1
$1440_{105} = \chi_{95,0}$	1
$1440_{106} = \chi_{95,1}$	1
$1440_{107} = \chi_{95,2}$	1
$1440_{108} = \chi_{95,0}^{*38}$	1
$1440_{109} = \chi_{95,1}^{*38}$	1
$1440_{110} = \chi_{95,2}^{*38}$	1

$$\varphi_{42,0} = 1440_{12}$$