Rank-68 over GF(32)

January 15, 2021

The equation

The equation of the surface is :

$$X_1^3 + X_2^3 + X_0^2 X_1 + X_0^2 X_2 = 0$$

(0, 1, 1, 0, 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0)
The point rank of the equation over GF(32) is 2132048

General information

Number of lines	1089
Number of points	2081
Number of singular points	33
Number of Eckardt points	0
Number of double points	0
Number of single points	1024
Number of points off lines	0
Number of Hesse planes	0
Number of axes	0
Type of points on lines	33^{1089}
Type of lines on points	$65, 33^{1056}, 1^{1024}$

Singular Points

The surface has 33 singular points:

$0: P_3 = \mathbf{P}(0,0,0,1) = \mathbf{P}(0,0,0,1)$

$1: P_4 = \mathbf{P}(1,1,1,1) = \mathbf{P}(1,1,1,1)$

$2: P_{68} = \mathbf{P}(1,1,1,0) = \mathbf{P}(1,1,1,0)$

$3: P_{3171} = \mathbf{P}(\eta,\eta,\eta,1) = \mathbf{P}(2,2,2,1)$

$4: P_{4228} = \mathbf{P}(\eta^{18},\eta^{18},\eta^{18},1) = \mathbf{P}(3,3,3,1)$

$5: P_{5285} = \mathbf{P}(\eta^2,\eta^2,\eta^2,1) = \mathbf{P}(4,4,4,1)$

$6: P_{6342} = \mathbf{P}(\eta^5,\eta^5,\eta^5,1) = \mathbf{P}(5,5,5,1)$

$7: P_{7399} = \mathbf{P}(\eta^{19},\eta^{19},\eta^{19},1) = \mathbf{P}(6,6,6,1)$

$8: P_{8456} = \mathbf{P}(\eta^{11},\eta^{11},\eta^{11},1) = \mathbf{P}(7,7,7,1)$

$9: P_{9513} = \mathbf{P}(\eta^3,\eta^3,\eta^3,1) = \mathbf{P}(8,8,8,1)$

$10: P_{10570} = \mathbf{P}(\eta^{29},\eta^{29},\eta^{29},1) = \mathbf{P}(9,9,9,1)$

$11: P_{11627} = \mathbf{P}(\eta^6,\eta^6,\eta^6,1) = \mathbf{P}(10,10,10,1)$

$12: P_{12684} = \mathbf{P}(\eta^{27},\eta^{27},\eta^{27},1) = \mathbf{P}(11,11,11,1)$

$13: P_{13741} = \mathbf{P}(\eta^{20},\eta^{20},\eta^{20},1) = \mathbf{P}(12,12,12,1)$

$14: P_{14798} = \mathbf{P}(\eta^8,\eta^8,\eta^8,1) = \mathbf{P}(13,13,13,1)$

$15: P_{15855} = \mathbf{P}(\eta^{12},\eta^{12},\eta^{12},1) = \mathbf{P}(14,14,14,1)$

$16: P_{16912} = \mathbf{P}(\eta^{23},\eta^{23},\eta^{23},1) = \mathbf{P}(15,15,15,1)$

$17: P_{17969} = \mathbf{P}(\eta^4,\eta^4,\eta^4,1) = \mathbf{P}(16,16,16,1)$

$$18 : P_{19026} = \mathbf{P}(\eta^{10}, \eta^{10}, \eta^{10}, 1) = \mathbf{P}(17, 17, 17, 1) \qquad 26 : P_{27482} = \mathbf{P}(\eta^{25}, \eta^{25}, \eta^{25}, 1) = \mathbf{P}(25, 25, 25, 1)$$
$$19 : P_{20083} = \mathbf{P}(\eta^{30}, \eta^{30}, \eta^{30}, 1) = \mathbf{P}(18, 18, 18, 1) \qquad 27 : P_{28539} = \mathbf{P}(\eta^{9}, \eta^{9}, \eta^{9}, 1) = \mathbf{P}(26, 26, 26, 1)$$
$$20 : P_{21140} = \mathbf{P}(\eta^{17}, \eta^{17}, \eta^{17}, 1) = \mathbf{P}(19, 19, 19, 1) \qquad 28 : P_{29596} = \mathbf{P}(\eta^{16}, \eta^{16}, \eta^{16}, 1) = \mathbf{P}(27, 27, 27, 1)$$
$$21 : P_{22197} = \mathbf{P}(\eta^{7}, \eta^{7}, \eta^{7}, 1) = \mathbf{P}(20, 20, 20, 1) \qquad 29 : P_{30653} = \mathbf{P}(\eta^{13}, \eta^{13}, \eta^{13}, 1) = \mathbf{P}(28, 28, 28, 1)$$
$$22 : P_{23254} = \mathbf{P}(\eta^{22}, \eta^{22}, \eta^{22}, 1) = \mathbf{P}(21, 21, 21, 1) \qquad 30 : P_{31710} = \mathbf{P}(\eta^{14}, \eta^{14}, \eta^{14}, 1) = \mathbf{P}(29, 29, 29, 1)$$
$$23 : P_{24311} = \mathbf{P}(\eta^{28}, \eta^{28}, \eta^{28}, 1) = \mathbf{P}(22, 22, 22, 1) \qquad 31 : P_{32767} = \mathbf{P}(\eta^{24}, \eta^{24}, \eta^{24}, 1) = \mathbf{P}(30, 30, 30, 1)$$
$$24 : P_{25368} = \mathbf{P}(\eta^{26}, \eta^{26}, \eta^{26}, 1) = \mathbf{P}(23, 23, 23, 1) \qquad 32 : P_{33824} = \mathbf{P}(\eta^{15}, \eta^{15}, \eta^{15}, 1) = \mathbf{P}(31, 31, 31, 1)$$
$$25 : P_{26425} = \mathbf{P}(\eta^{21}, \eta^{21}, \eta^{21}, 1) = \mathbf{P}(24, 24, 24, 1)$$

The 1089 Lines

The lines and their Pluecker coordinates are:

$$\ell_0 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 0 \end{bmatrix}_1 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 0 \end{bmatrix}_1 = \mathbf{Pl}(1, 0, 1, 0, 0, 0)_3$$

$$\ell_1 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1056} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1056} = \mathbf{Pl}(0, 0, 0, 0, 1, 0)_{1089}$$

$$\ell_2 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{33} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{33} = \mathbf{Pl}(1, 0, 1, 0, 1, 0)_{1153}$$

$$\ell_3 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & \eta^{30} \end{bmatrix}_{577} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 18 \end{bmatrix}_{577} = \mathbf{Pl}(2, 0, 2, 0, 1, 0)_{1217}$$

$$\ell_4 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & \eta^{13} \end{bmatrix}_{897} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 28 \end{bmatrix}_{897} = \mathbf{Pl}(3, 0, 3, 0, 1, 0)_{1281}$$

$$\ell_5 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & \eta^{29} \end{bmatrix}_{289} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 9 \end{bmatrix}_{289} = \mathbf{Pl}(4, 0, 4, 0, 1, 0)_{1345}$$

$$\ell_6 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & \eta^{26} \end{bmatrix}_{737} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 23 \end{bmatrix}_{737} = \mathbf{Pl}(5, 0, 5, 0, 1, 0)_{1409}$$

$$\ell_7 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & \eta^{12} \end{bmatrix}_{449} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 14 \end{bmatrix}_{449} = \mathbf{Pl}(6, 0, 6, 0, 1, 0)_{1473}$$

$$\ell_8 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & \eta^{20} \end{bmatrix}_{385} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 12 \end{bmatrix}_{385} = \mathbf{Pl}(7, 0, 7, 0, 1, 0)_{1537}$$

$$\ell_9 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & \eta^{28} \end{bmatrix}_{705} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 22 \end{bmatrix}_{705} = \mathbf{Pl}(8, 0, 8, 0, 1, 0)_{1601}$$

$$\ell_{10} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & \eta^{2} \end{bmatrix}_{129} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 4 \end{bmatrix}_{129} = \mathbf{Pl}(9, 0, 9, 0, 1, 0)_{1665}$$

$$\ell_{11} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & \eta^{25} \end{bmatrix}_{801} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 25 \end{bmatrix}_{801} = \mathbf{Pl}(10, 0, 10, 0, 1, 0)_{1729}$$

$$\ell_{12} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & \eta^{4} \end{bmatrix}_{513} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 16 \end{bmatrix}_{513} = \mathbf{Pl}(11, 0, 11, 0, 1, 0)_{1793}$$

$$\ell_{13} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & \eta^{11} \end{bmatrix}_{225} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 7 \end{bmatrix}_{225} = \mathbf{Pl}(12, 0, 12, 0, 1, 0)_{1857}$$

$$\ell_{14} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & \eta^{23} \end{bmatrix}_{481} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 15 \end{bmatrix}_{481} = \mathbf{Pl}(13, 0, 13, 0, 1, 0)_{1921}$$

$$\ell_{15} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & \eta^{19} \end{bmatrix}_{193} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 6 \end{bmatrix}_{193} = \mathbf{Pl}(14, 0, 14, 0, 1, 0)_{1985}$$

$$\ell_{16} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & \eta^8 \end{bmatrix}_{417} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 13 \end{bmatrix}_{417} = \mathbf{Pl}(15,0,15,0,1,0)_{2049}$$

$$\ell_{17} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & \eta^{27} \end{bmatrix}_{353} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 11 \end{bmatrix}_{353} = \mathbf{Pl}(16,0,16,0,1,0)_{2113}$$

$$\ell_{18} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & \eta^{21} \end{bmatrix}_{769} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 24 \end{bmatrix}_{769} = \mathbf{Pl}(17,0,17,0,1,0)_{2177}$$

$$\ell_{19} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & \eta \end{bmatrix}_{65} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 2 \end{bmatrix}_{65} = \mathbf{Pl}(18,0,18,0,1,0)_{2241}$$

$$\ell_{20} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & \eta^{14} \end{bmatrix}_{929} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 29 \end{bmatrix}_{929} = \mathbf{Pl}(19,0,19,0,1,0)_{2305}$$

$$\ell_{21} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & \eta^{24} \end{bmatrix}_{961} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 30 \end{bmatrix}_{961} = \mathbf{Pl}(20,0,20,0,1,0)_{2369}$$

$$\ell_{22} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & \eta^9 \end{bmatrix}_{833} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 26 \end{bmatrix}_{833} = \mathbf{Pl}(21,0,21,0,1,0)_{2433}$$

$$\ell_{23} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & \eta^3 \end{bmatrix}_{257} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 8 \end{bmatrix}_{257} = \mathbf{Pl}(22,0,22,0,1,0)_{2497}$$

$$\ell_{24} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & \eta^5 \end{bmatrix}_{161} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 5 \end{bmatrix}_{161} = \mathbf{Pl}(23,0,23,0,1,0)_{2561}$$

$$\ell_{25} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & \eta^{10} \end{bmatrix}_{545} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 17 \end{bmatrix}_{545} = \mathbf{Pl}(24,0,24,0,1,0)_{2625}$$

$$\ell_{26} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & \eta^6 \end{bmatrix}_{321} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 10 \end{bmatrix}_{321} = \mathbf{Pl}(25,0,25,0,1,0)_{2689}$$

$$\ell_{27} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & \eta^{22} \end{bmatrix}_{673} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 21 \end{bmatrix}_{673} = \mathbf{Pl}(26,0,26,0,1,0)_{2753}$$

$$\ell_{28} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & \eta^{15} \end{bmatrix}_{993} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 31 \end{bmatrix}_{993} = \mathbf{Pl}(27,0,27,0,1,0)_{2817}$$

$$\ell_{29} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & \eta^{18} \end{bmatrix}_{97} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 3 \end{bmatrix}_{97} = \mathbf{Pl}(28,0,28,0,1,0)_{2881}$$

$$\ell_{30} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & \eta^{17} \end{bmatrix}_{609} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 19 \end{bmatrix}_{609} = \mathbf{Pl}(29,0,29,0,1,0)_{2945}$$

$$\ell_{31} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & \eta^7 \end{bmatrix}_{641} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 20 \end{bmatrix}_{641} = \mathbf{Pl}(30,0,30,0,1,0)_{3009}$$

$$\ell_{32} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & \eta^{16} \end{bmatrix}_{865} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 27 \end{bmatrix}_{865} = \mathbf{Pl}(31,0,31,0,1,0)_{3073}$$

$$\ell_{33} = \begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{2113} = \begin{bmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{2113} = \mathbf{Pl}(0,0,0,1,1,0)_{3105}$$

$$\ell_{34} = \begin{bmatrix} 1 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{34880} = \begin{bmatrix} 1 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{34880} = \mathbf{Pl}(0,1,0,0,1,0)_{1121}$$

$$\ell_{35} = \begin{bmatrix} 0 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082433} = \begin{bmatrix} 0 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082433} = \mathbf{Pl}(0,1,0,1,0,0)_{97}$$

$$\ell_{36} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 0 \end{bmatrix}_{33825} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 0 \end{bmatrix}_{33825} = \mathbf{Pl}(1,1,1,1,0,0)_{128}$$

$$\ell_{37} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{30} \\ 0 & 1 & 1 & 0 \end{array}\right]_{608833} = \left[\begin{array}{cccc} 1 & 0 & 0 & 18 \\ 0 & 1 & 1 & 0 \end{array}\right]_{608833} = \mathbf{Pl}(1,1,2,1,0,0)_{159}$$

$$\ell_{38} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{13} \\ 0 & 1 & 1 & 0 \end{array}\right]_{947073} = \left[\begin{array}{cccc} 1 & 0 & 0 & 28 \\ 0 & 1 & 1 & 0 \end{array}\right]_{947073} = \mathbf{Pl}(1,1,3,1,0,0)_{190}$$

$$\ell_{39} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{29} \\ 0 & 1 & 1 & 0 \end{array}\right]_{304417} = \left[\begin{array}{cccc} 1 & 0 & 0 & 9 \\ 0 & 1 & 1 & 0 \end{array}\right]_{304417} = \mathbf{Pl}(1,1,4,1,0,0)_{221}$$

$$\ell_{40} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{26} \\ 0 & 1 & 1 & 0 \end{array}\right]_{777953} = \left[\begin{array}{cccc} 1 & 0 & 0 & 23 \\ 0 & 1 & 1 & 0 \end{array}\right]_{777953} = \mathbf{Pl}(1,1,5,1,0,0)_{252}$$

$$\ell_{41} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{12} \\ 0 & 1 & 1 & 0 \end{array}\right]_{473537} = \left[\begin{array}{cccc} 1 & 0 & 0 & 14 \\ 0 & 1 & 1 & 0 \end{array}\right]_{473537} = \mathbf{Pl}(1,1,6,1,0,0)_{283}$$

$$\ell_{42} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{20} \\ 0 & 1 & 1 & 0 \end{array}\right]_{405889} = \left[\begin{array}{cccc} 1 & 0 & 0 & 12 \\ 0 & 1 & 1 & 0 \end{array}\right]_{405889} = \mathbf{Pl}(1,1,7,1,0,0)_{314}$$

$$\ell_{43} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{28} \\ 0 & 1 & 1 & 0 \end{array}\right]_{744129} = \left[\begin{array}{cccc} 1 & 0 & 0 & 22 \\ 0 & 1 & 1 & 0 \end{array}\right]_{744129} = \mathbf{Pl}(1,1,8,1,0,0)_{345}$$

$$\ell_{44} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{2} \\ 0 & 1 & 1 & 0 \end{array}\right]_{135297} = \left[\begin{array}{cccc} 1 & 0 & 0 & 4 \\ 0 & 1 & 1 & 0 \end{array}\right]_{135297} = \mathbf{Pl}(1,1,9,1,0,0)_{376}$$

$$\ell_{45} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{25} \\ 0 & 1 & 1 & 0 \end{array}\right]_{845601} = \left[\begin{array}{cccc} 1 & 0 & 0 & 25 \\ 0 & 1 & 1 & 0 \end{array}\right]_{845601} = \mathbf{Pl}(1,1,10,1,0,0)_{407}$$

$$\ell_{46} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{4} \\ 0 & 1 & 1 & 0 \end{array}\right]_{541185} = \left[\begin{array}{cccc} 1 & 0 & 0 & 16 \\ 0 & 1 & 1 & 0 \end{array}\right]_{541185} = \mathbf{Pl}(1,1,11,1,0,0)_{438}$$

$$\ell_{47} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{11} \\ 0 & 1 & 1 & 0 \end{array}\right]_{236769} = \left[\begin{array}{cccc} 1 & 0 & 0 & 7 \\ 0 & 1 & 1 & 0 \end{array}\right]_{236769} = \mathbf{Pl}(1,1,12,1,0,0)_{469}$$

$$\ell_{48} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{23} \\ 0 & 1 & 1 & 0 \end{array}\right]_{507361} = \left[\begin{array}{cccc} 1 & 0 & 0 & 15 \\ 0 & 1 & 1 & 0 \end{array}\right]_{507361} = \mathbf{Pl}(1,1,13,1,0,0)_{500}$$

$$\ell_{49} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{19} \\ 0 & 1 & 1 & 0 \end{array}\right]_{202945} = \left[\begin{array}{cccc} 1 & 0 & 0 & 6 \\ 0 & 1 & 1 & 0 \end{array}\right]_{202945} = \mathbf{Pl}(1,1,14,1,0,0)_{531}$$

$$\ell_{50} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{8} \\ 0 & 1 & 1 & 0 \end{array}\right]_{439713} = \left[\begin{array}{cccc} 1 & 0 & 0 & 13 \\ 0 & 1 & 1 & 0 \end{array}\right]_{439713} = \mathbf{Pl}(1,1,15,1,0,0)_{562}$$

$$\ell_{51} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{27} \\ 0 & 1 & 1 & 0 \end{array}\right]_{372065} = \left[\begin{array}{cccc} 1 & 0 & 0 & 11 \\ 0 & 1 & 1 & 0 \end{array}\right]_{372065} = \mathbf{Pl}(1,1,16,1,0,0)_{593}$$

$$\ell_{52} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{21} \\ 0 & 1 & 1 & 0 \end{array}\right]_{811777} = \left[\begin{array}{cccc} 1 & 0 & 0 & 24 \\ 0 & 1 & 1 & 0 \end{array}\right]_{811777} = \mathbf{Pl}(1,1,17,1,0,0)_{624}$$

$$\ell_{53} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta \\ 0 & 1 & 1 & 0 \end{array}\right]_{67649} = \left[\begin{array}{cccc} 1 & 0 & 0 & 2 \\ 0 & 1 & 1 & 0 \end{array}\right]_{67649} = \mathbf{Pl}(1,1,18,1,0,0)_{655}$$

$$\ell_{54} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{14} \\ 0 & 1 & 1 & 0 \end{array}\right]_{980897} = \left[\begin{array}{cccc} 1 & 0 & 0 & 29 \\ 0 & 1 & 1 & 0 \end{array}\right]_{980897} = \mathbf{Pl}(1,1,19,1,0,0)_{686}$$

$$\ell_{55} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{24} \\ 0 & 1 & 1 & 0 \end{array}\right]_{1014721} = \left[\begin{array}{cccc} 1 & 0 & 0 & 30 \\ 0 & 1 & 1 & 0 \end{array}\right]_{1014721} = \mathbf{Pl}(1,1,20,1,0,0)_{717}$$

$$\ell_{56} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{9} \\ 0 & 1 & 1 & 0 \end{array}\right]_{879425} = \left[\begin{array}{cccc} 1 & 0 & 0 & 26 \\ 0 & 1 & 1 & 0 \end{array}\right]_{879425} = \mathbf{Pl}(1,1,21,1,0,0)_{748}$$

$$\ell_{57} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{3} \\ 0 & 1 & 1 & 0 \end{array}\right]_{270593} = \left[\begin{array}{cccc} 1 & 0 & 0 & 8 \\ 0 & 1 & 1 & 0 \end{array}\right]_{270593} = \mathbf{Pl}(1,1,22,1,0,0)_{779}$$

$$\ell_{58} = \begin{bmatrix} 1 & 0 & 0 & \eta^5 \\ 0 & 1 & 1 & 0 \end{bmatrix}_{169121} = \begin{bmatrix} 1 & 0 & 0 & 5 \\ 0 & 1 & 1 & 0 \end{bmatrix}_{169121} = \mathbf{Pl}(1,1,23,1,0,0)_{810}$$

$$\ell_{59} = \begin{bmatrix} 1 & 0 & 0 & \eta^{10} \\ 0 & 1 & 1 & 0 \end{bmatrix}_{575009} = \begin{bmatrix} 1 & 0 & 0 & 17 \\ 0 & 1 & 1 & 0 \end{bmatrix}_{575009} = \mathbf{Pl}(1,1,24,1,0,0)_{841}$$

$$\ell_{60} = \begin{bmatrix} 1 & 0 & 0 & \eta^6 \\ 0 & 1 & 1 & 0 \end{bmatrix}_{338241} = \begin{bmatrix} 1 & 0 & 0 & 10 \\ 0 & 1 & 1 & 0 \end{bmatrix}_{338241} = \mathbf{Pl}(1,1,25,1,0,0)_{872}$$

$$\ell_{61} = \begin{bmatrix} 1 & 0 & 0 & \eta^{22} \\ 0 & 1 & 1 & 0 \end{bmatrix}_{710305} = \begin{bmatrix} 1 & 0 & 0 & 21 \\ 0 & 1 & 1 & 0 \end{bmatrix}_{710305} = \mathbf{Pl}(1,1,26,1,0,0)_{903}$$

$$\ell_{62} = \begin{bmatrix} 1 & 0 & 0 & \eta^{15} \\ 0 & 1 & 1 & 0 \end{bmatrix}_{1048545} = \begin{bmatrix} 1 & 0 & 0 & 31 \\ 0 & 1 & 1 & 0 \end{bmatrix}_{1048545} = \mathbf{Pl}(1,1,27,1,0,0)_{934}$$

$$\ell_{63} = \begin{bmatrix} 1 & 0 & 0 & \eta^{18} \\ 0 & 1 & 1 & 0 \end{bmatrix}_{101473} = \begin{bmatrix} 1 & 0 & 0 & 3 \\ 0 & 1 & 1 & 0 \end{bmatrix}_{101473} = \mathbf{Pl}(1,1,28,1,0,0)_{965}$$

$$\ell_{64} = \begin{bmatrix} 1 & 0 & 0 & \eta^{17} \\ 0 & 1 & 1 & 0 \end{bmatrix}_{642657} = \begin{bmatrix} 1 & 0 & 0 & 19 \\ 0 & 1 & 1 & 0 \end{bmatrix}_{642657} = \mathbf{Pl}(1,1,29,1,0,0)_{996}$$

$$\ell_{65} = \begin{bmatrix} 1 & 0 & 0 & \eta^7 \\ 0 & 1 & 1 & 0 \end{bmatrix}_{676481} = \begin{bmatrix} 1 & 0 & 0 & 20 \\ 0 & 1 & 1 & 0 \end{bmatrix}_{676481} = \mathbf{Pl}(1,1,30,1,0,0)_{1027}$$

$$\ell_{66} = \begin{bmatrix} 1 & 0 & 0 & \eta^{16} \\ 0 & 1 & 1 & 0 \end{bmatrix}_{913249} = \begin{bmatrix} 1 & 0 & 0 & 27 \\ 0 & 1 & 1 & 0 \end{bmatrix}_{913249} = \mathbf{Pl}(1,1,31,1,0,0)_{1058}$$

$$\ell_{67} = \begin{bmatrix} 1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{35937} = \begin{bmatrix} 1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{35937} = \mathbf{Pl}(0,1,0,1,1,0)_{3137}$$

$$\ell_{68} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{33857} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{33857} = \mathbf{Pl}(1,1,1,1,1,0)_{5058}$$

$$\ell_{69} = \begin{bmatrix} 1 & 0 & 0 & \eta^{30} \\ 0 & 1 & 1 & \eta^{30} \end{bmatrix}_{609409} = \begin{bmatrix} 1 & 0 & 0 & 18 \\ 0 & 1 & 1 & 18 \end{bmatrix}_{609409} = \mathbf{Pl}(1,1,2,1,1,0)_{5089}$$

$$\ell_{70} = \begin{bmatrix} 1 & 0 & 0 & \eta^{13} \\ 0 & 1 & 1 & \eta^{13} \end{bmatrix}_{947969} = \begin{bmatrix} 1 & 0 & 0 & 28 \\ 0 & 1 & 1 & 28 \end{bmatrix}_{947969} = \mathbf{Pl}(1,1,3,1,1,0)_{5120}$$

$$\ell_{71} = \begin{bmatrix} 1 & 0 & 0 & \eta^{29} \\ 0 & 1 & 1 & \eta^{29} \end{bmatrix}_{304705} = \begin{bmatrix} 1 & 0 & 0 & 9 \\ 0 & 1 & 1 & 9 \end{bmatrix}_{304705} = \mathbf{Pl}(1,1,4,1,1,0)_{5151}$$

$$\ell_{72} = \begin{bmatrix} 1 & 0 & 0 & \eta^{26} \\ 0 & 1 & 1 & \eta^{26} \end{bmatrix}_{778689} = \begin{bmatrix} 1 & 0 & 0 & 23 \\ 0 & 1 & 1 & 23 \end{bmatrix}_{778689} = \mathbf{Pl}(1,1,5,1,1,0)_{5182}$$

$$\ell_{73} = \begin{bmatrix} 1 & 0 & 0 & \eta^{12} \\ 0 & 1 & 1 & \eta^{12} \end{bmatrix}_{473985} = \begin{bmatrix} 1 & 0 & 0 & 14 \\ 0 & 1 & 1 & 14 \end{bmatrix}_{473985} = \mathbf{Pl}(1,1,6,1,1,0)_{5213}$$

$$\ell_{74} = \begin{bmatrix} 1 & 0 & 0 & \eta^{20} \\ 0 & 1 & 1 & \eta^{20} \end{bmatrix}_{406273} = \begin{bmatrix} 1 & 0 & 0 & 12 \\ 0 & 1 & 1 & 12 \end{bmatrix}_{406273} = \mathbf{Pl}(1,1,7,1,1,0)_{5244}$$

$$\ell_{75} = \begin{bmatrix} 1 & 0 & 0 & \eta^{28} \\ 0 & 1 & 1 & \eta^{28} \end{bmatrix}_{744833} = \begin{bmatrix} 1 & 0 & 0 & 22 \\ 0 & 1 & 1 & 22 \end{bmatrix}_{744833} = \mathbf{Pl}(1,1,8,1,1,0)_{5275}$$

$$\ell_{76} = \begin{bmatrix} 1 & 0 & 0 & \eta^2 \\ 0 & 1 & 1 & \eta^2 \end{bmatrix}_{135425} = \begin{bmatrix} 1 & 0 & 0 & 4 \\ 0 & 1 & 1 & 4 \end{bmatrix}_{135425} = \mathbf{Pl}(1,1,9,1,1,0)_{5306}$$

$$\ell_{77} = \begin{bmatrix} 1 & 0 & 0 & \eta^{25} \\ 0 & 1 & 1 & \eta^{25} \end{bmatrix}_{846401} = \begin{bmatrix} 1 & 0 & 0 & 25 \\ 0 & 1 & 1 & 25 \end{bmatrix}_{846401} = \mathbf{Pl}(1,1,10,1,1,0)_{5337}$$

$$\ell_{78} = \begin{bmatrix} 1 & 0 & 0 & \eta^4 \\ 0 & 1 & 1 & \eta^4 \end{bmatrix}_{541697} = \begin{bmatrix} 1 & 0 & 0 & 16 \\ 0 & 1 & 1 & 16 \end{bmatrix}_{541697} = \mathbf{Pl}(1,1,11,1,1,0)_{5368}$$

$$\ell_{79} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{11} \\ 0 & 1 & 1 & \eta^{11} \end{array}\right]_{236993} = \left[\begin{array}{cccc} 1 & 0 & 0 & 7 \\ 0 & 1 & 1 & 7 \end{array}\right]_{236993} = \mathbf{Pl}(1,1,12,1,1,0)_{5399}$$

$$\ell_{80} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{23} \\ 0 & 1 & 1 & \eta^{23} \end{array}\right]_{507841} = \left[\begin{array}{cccc} 1 & 0 & 0 & 15 \\ 0 & 1 & 1 & 15 \end{array}\right]_{507841} = \mathbf{Pl}(1,1,13,1,1,0)_{5430}$$

$$\ell_{81} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{19} \\ 0 & 1 & 1 & \eta^{19} \end{array}\right]_{203137} = \left[\begin{array}{cccc} 1 & 0 & 0 & 6 \\ 0 & 1 & 1 & 6 \end{array}\right]_{203137} = \mathbf{Pl}(1,1,14,1,1,0)_{5461}$$

$$\ell_{82} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{8} \\ 0 & 1 & 1 & \eta^{8} \end{array}\right]_{440129} = \left[\begin{array}{cccc} 1 & 0 & 0 & 13 \\ 0 & 1 & 1 & 13 \end{array}\right]_{440129} = \mathbf{Pl}(1,1,15,1,1,0)_{5492}$$

$$\ell_{83} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{27} \\ 0 & 1 & 1 & \eta^{27} \end{array}\right]_{372417} = \left[\begin{array}{cccc} 1 & 0 & 0 & 11 \\ 0 & 1 & 1 & 11 \end{array}\right]_{372417} = \mathbf{Pl}(1,1,16,1,1,0)_{5523}$$

$$\ell_{84} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{21} \\ 0 & 1 & 1 & \eta^{21} \end{array}\right]_{812545} = \left[\begin{array}{cccc} 1 & 0 & 0 & 24 \\ 0 & 1 & 1 & 24 \end{array}\right]_{812545} = \mathbf{Pl}(1,1,17,1,1,0)_{5554}$$

$$\ell_{85} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta \\ 0 & 1 & 1 & \eta \end{array}\right]_{67713} = \left[\begin{array}{cccc} 1 & 0 & 0 & 2 \\ 0 & 1 & 1 & 2 \end{array}\right]_{67713} = \mathbf{Pl}(1,1,18,1,1,0)_{5585}$$

$$\ell_{86} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{14} \\ 0 & 1 & 1 & \eta^{14} \end{array}\right]_{981825} = \left[\begin{array}{cccc} 1 & 0 & 0 & 29 \\ 0 & 1 & 1 & 29 \end{array}\right]_{981825} = \mathbf{Pl}(1,1,19,1,1,0)_{5616}$$

$$\ell_{87} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{24} \\ 0 & 1 & 1 & \eta^{24} \end{array}\right]_{1015681} = \left[\begin{array}{cccc} 1 & 0 & 0 & 30 \\ 0 & 1 & 1 & 30 \end{array}\right]_{1015681} = \mathbf{Pl}(1,1,20,1,1,0)_{5647}$$

$$\ell_{88} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{9} \\ 0 & 1 & 1 & \eta^{9} \end{array}\right]_{880257} = \left[\begin{array}{cccc} 1 & 0 & 0 & 26 \\ 0 & 1 & 1 & 26 \end{array}\right]_{880257} = \mathbf{Pl}(1,1,21,1,1,0)_{5678}$$

$$\ell_{89} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{3} \\ 0 & 1 & 1 & \eta^{3} \end{array}\right]_{270849} = \left[\begin{array}{cccc} 1 & 0 & 0 & 8 \\ 0 & 1 & 1 & 8 \end{array}\right]_{270849} = \mathbf{Pl}(1,1,22,1,1,0)_{5709}$$

$$\ell_{90} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{5} \\ 0 & 1 & 1 & \eta^{5} \end{array}\right]_{169281} = \left[\begin{array}{cccc} 1 & 0 & 0 & 5 \\ 0 & 1 & 1 & 5 \end{array}\right]_{169281} = \mathbf{Pl}(1,1,23,1,1,0)_{5740}$$

$$\ell_{91} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{10} \\ 0 & 1 & 1 & \eta^{10} \end{array}\right]_{575553} = \left[\begin{array}{cccc} 1 & 0 & 0 & 17 \\ 0 & 1 & 1 & 17 \end{array}\right]_{575553} = \mathbf{Pl}(1,1,24,1,1,0)_{5771}$$

$$\ell_{92} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{6} \\ 0 & 1 & 1 & \eta^{6} \end{array}\right]_{338561} = \left[\begin{array}{cccc} 1 & 0 & 0 & 10 \\ 0 & 1 & 1 & 10 \end{array}\right]_{338561} = \mathbf{Pl}(1,1,25,1,1,0)_{5802}$$

$$\ell_{93} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{22} \\ 0 & 1 & 1 & \eta^{22} \end{array}\right]_{710977} = \left[\begin{array}{cccc} 1 & 0 & 0 & 21 \\ 0 & 1 & 1 & 21 \end{array}\right]_{710977} = \mathbf{Pl}(1,1,26,1,1,0)_{5833}$$

$$\ell_{94} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{15} \\ 0 & 1 & 1 & \eta^{15} \end{array}\right]_{1049537} = \left[\begin{array}{cccc} 1 & 0 & 0 & 31 \\ 0 & 1 & 1 & 31 \end{array}\right]_{1049537} = \mathbf{Pl}(1,1,27,1,1,0)_{5864}$$

$$\ell_{95} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{18} \\ 0 & 1 & 1 & \eta^{18} \end{array}\right]_{101569} = \left[\begin{array}{cccc} 1 & 0 & 0 & 3 \\ 0 & 1 & 1 & 3 \end{array}\right]_{101569} = \mathbf{Pl}(1,1,28,1,1,0)_{5895}$$

$$\ell_{96} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{17} \\ 0 & 1 & 1 & \eta^{17} \end{array}\right]_{643265} = \left[\begin{array}{cccc} 1 & 0 & 0 & 19 \\ 0 & 1 & 1 & 19 \end{array}\right]_{643265} = \mathbf{Pl}(1,1,29,1,1,0)_{5926}$$

$$\ell_{97} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{7} \\ 0 & 1 & 1 & \eta^{7} \end{array}\right]_{677121} = \left[\begin{array}{cccc} 1 & 0 & 0 & 20 \\ 0 & 1 & 1 & 20 \end{array}\right]_{677121} = \mathbf{Pl}(1,1,30,1,1,0)_{5957}$$

$$\ell_{98} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{16} \\ 0 & 1 & 1 & \eta^{16} \end{array}\right]_{914113} = \left[\begin{array}{cccc} 1 & 0 & 0 & 27 \\ 0 & 1 & 1 & 27 \end{array}\right]_{914113} = \mathbf{Pl}(1,1,31,1,1,0)_{5988}$$

$$\ell_{99} = \left[\begin{array}{cccc} 1 & \eta^{30} & \eta^{30} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{628914} = \left[\begin{array}{cccc} 1 & 18 & 18 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{628914} = \mathbf{Pl}(0,18,0,18,1,0)_{4225}$$

$$\ell_{100} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{13} \\ 0 & 1 & 1 & \eta^{14} \end{array}\right]_{948001} = \left[\begin{array}{cccc} 1 & 0 & 0 & 28 \\ 0 & 1 & 1 & 29 \end{array}\right]_{948001} = \mathbf{Pl}(2,18,19,18,1,0)_{21954}$$

$$\ell_{101} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & \eta \end{array}\right]_{33889} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 2 \end{array}\right]_{33889} = \mathbf{Pl}(2,18,18,18,1,0)_{21923}$$

$$\ell_{102} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{30} \\ 0 & 1 & 1 & 1 \end{array}\right]_{608865} = \left[\begin{array}{cccc} 1 & 0 & 0 & 18 \\ 0 & 1 & 1 & 1 \end{array}\right]_{608865} = \mathbf{Pl}(2,18,1,18,1,0)_{21396}$$

$$\ell_{103} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{29} \\ 0 & 1 & 1 & \eta^{30} \end{array}\right]_{304993} = \left[\begin{array}{cccc} 1 & 0 & 0 & 9 \\ 0 & 1 & 1 & 18 \end{array}\right]_{304993} = \mathbf{Pl}(2,18,2,18,1,0)_{21427}$$

$$\ell_{104} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{26} \\ 0 & 1 & 1 & \eta^{27} \end{array}\right]_{778305} = \left[\begin{array}{cccc} 1 & 0 & 0 & 23 \\ 0 & 1 & 1 & 11 \end{array}\right]_{778305} = \mathbf{Pl}(2,18,16,18,1,0)_{21861}$$

$$\ell_{105} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{12} \\ 0 & 1 & 1 & \eta^{13} \end{array}\right]_{474433} = \left[\begin{array}{cccc} 1 & 0 & 0 & 14 \\ 0 & 1 & 1 & 28 \end{array}\right]_{474433} = \mathbf{Pl}(2,18,3,18,1,0)_{21458}$$

$$\ell_{106} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{20} \\ 0 & 1 & 1 & \eta^{21} \end{array}\right]_{406657} = \left[\begin{array}{cccc} 1 & 0 & 0 & 12 \\ 0 & 1 & 1 & 24 \end{array}\right]_{406657} = \mathbf{Pl}(2,18,17,18,1,0)_{21892}$$

$$\ell_{107} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{28} \\ 0 & 1 & 1 & \eta^{29} \end{array}\right]_{744417} = \left[\begin{array}{cccc} 1 & 0 & 0 & 22 \\ 0 & 1 & 1 & 9 \end{array}\right]_{744417} = \mathbf{Pl}(2,18,4,18,1,0)_{21489}$$

$$\ell_{108} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{2} \\ 0 & 1 & 1 & \eta^{3} \end{array}\right]_{135553} = \left[\begin{array}{cccc} 1 & 0 & 0 & 4 \\ 0 & 1 & 1 & 8 \end{array}\right]_{135553} = \mathbf{Pl}(2,18,22,18,1,0)_{22047}$$

$$\ell_{109} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{25} \\ 0 & 1 & 1 & \eta^{26} \end{array}\right]_{846337} = \left[\begin{array}{cccc} 1 & 0 & 0 & 25 \\ 0 & 1 & 1 & 23 \end{array}\right]_{846337} = \mathbf{Pl}(2,18,5,18,1,0)_{21520}$$

$$\ell_{110} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{4} \\ 0 & 1 & 1 & \eta^{5} \end{array}\right]_{541345} = \left[\begin{array}{cccc} 1 & 0 & 0 & 16 \\ 0 & 1 & 1 & 5 \end{array}\right]_{541345} = \mathbf{Pl}(2,18,23,18,1,0)_{22078}$$

$$\ell_{111} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{11} \\ 0 & 1 & 1 & \eta^{12} \end{array}\right]_{237217} = \left[\begin{array}{cccc} 1 & 0 & 0 & 7 \\ 0 & 1 & 1 & 14 \end{array}\right]_{237217} = \mathbf{Pl}(2,18,6,18,1,0)_{21551}$$

$$\ell_{112} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{23} \\ 0 & 1 & 1 & \eta^{24} \end{array}\right]_{508321} = \left[\begin{array}{cccc} 1 & 0 & 0 & 15 \\ 0 & 1 & 1 & 30 \end{array}\right]_{508321} = \mathbf{Pl}(2,18,20,18,1,0)_{21985}$$

$$\ell_{113} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{19} \\ 0 & 1 & 1 & \eta^{20} \end{array}\right]_{203329} = \left[\begin{array}{cccc} 1 & 0 & 0 & 6 \\ 0 & 1 & 1 & 12 \end{array}\right]_{203329} = \mathbf{Pl}(2,18,7,18,1,0)_{21582}$$

$$\ell_{114} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{8} \\ 0 & 1 & 1 & \eta^{9} \end{array}\right]_{440545} = \left[\begin{array}{cccc} 1 & 0 & 0 & 13 \\ 0 & 1 & 1 & 26 \end{array}\right]_{440545} = \mathbf{Pl}(2,18,21,18,1,0)_{22016}$$

$$\ell_{115} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{27} \\ 0 & 1 & 1 & \eta^{28} \end{array}\right]_{372769} = \left[\begin{array}{cccc} 1 & 0 & 0 & 11 \\ 0 & 1 & 1 & 22 \end{array}\right]_{372769} = \mathbf{Pl}(2,18,8,18,1,0)_{21613}$$

$$\ell_{116} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{21} \\ 0 & 1 & 1 & \eta^{22} \end{array}\right]_{812449} = \left[\begin{array}{cccc} 1 & 0 & 0 & 24 \\ 0 & 1 & 1 & 21 \end{array}\right]_{812449} = \mathbf{Pl}(2,18,26,18,1,0)_{22171}$$

$$\ell_{117} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta \\ 0 & 1 & 1 & \eta^{2} \end{array}\right]_{67777} = \left[\begin{array}{cccc} 1 & 0 & 0 & 2 \\ 0 & 1 & 1 & 4 \end{array}\right]_{67777} = \mathbf{Pl}(2,18,9,18,1,0)_{21644}$$

$$\ell_{118} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{14} \\ 0 & 1 & 1 & \eta^{15} \end{array}\right]_{981889} = \left[\begin{array}{cccc} 1 & 0 & 0 & 29 \\ 0 & 1 & 1 & 31 \end{array}\right]_{981889} = \mathbf{Pl}(2,18,27,18,1,0)_{22202}$$

$$\ell_{119} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{24} \\ 0 & 1 & 1 & \eta^{25} \end{array}\right]_{1015521} = \left[\begin{array}{cccc} 1 & 0 & 0 & 30 \\ 0 & 1 & 1 & 25 \end{array}\right]_{1015521} = \mathbf{Pl}(2,18,10,18,1,0)_{21675}$$

$$\ell_{120} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{9} \\ 0 & 1 & 1 & \eta^{10} \end{array}\right]_{879969} = \left[\begin{array}{cccc} 1 & 0 & 0 & 26 \\ 0 & 1 & 1 & 17 \end{array}\right]_{879969} = \mathbf{Pl}(2,18,24,18,1,0)_{22109}$$

$$\ell_{121} = \begin{bmatrix} 1 & 0 & 0 & \eta^3 \\ 0 & 1 & 1 & \eta^4 \end{bmatrix}_{271105} = \begin{bmatrix} 1 & 0 & 0 & 8 \\ 0 & 1 & 1 & 16 \end{bmatrix}_{271105} = \mathbf{Pl}(2,18,11,18,1,0)_{21706}$$

$$\ell_{122} = \begin{bmatrix} 1 & 0 & 0 & \eta^5 \\ 0 & 1 & 1 & \eta^6 \end{bmatrix}_{169441} = \begin{bmatrix} 1 & 0 & 0 & 5 \\ 0 & 1 & 1 & 10 \end{bmatrix}_{169441} = \mathbf{Pl}(2,18,25,18,1,0)_{22140}$$

$$\ell_{123} = \begin{bmatrix} 1 & 0 & 0 & \eta^{10} \\ 0 & 1 & 1 & \eta^{11} \end{bmatrix}_{575233} = \begin{bmatrix} 1 & 0 & 0 & 17 \\ 0 & 1 & 1 & 7 \end{bmatrix}_{575233} = \mathbf{Pl}(2,18,12,18,1,0)_{21737}$$

$$\ell_{124} = \begin{bmatrix} 1 & 0 & 0 & \eta^6 \\ 0 & 1 & 1 & \eta^7 \end{bmatrix}_{338881} = \begin{bmatrix} 1 & 0 & 0 & 10 \\ 0 & 1 & 1 & 20 \end{bmatrix}_{338881} = \mathbf{Pl}(2,18,30,18,1,0)_{22295}$$

$$\ell_{125} = \begin{bmatrix} 1 & 0 & 0 & \eta^{22} \\ 0 & 1 & 1 & \eta^{23} \end{bmatrix}_{710785} = \begin{bmatrix} 1 & 0 & 0 & 21 \\ 0 & 1 & 1 & 15 \end{bmatrix}_{710785} = \mathbf{Pl}(2,18,13,18,1,0)_{21768}$$

$$\ell_{126} = \begin{bmatrix} 1 & 0 & 0 & \eta^{15} \\ 0 & 1 & 1 & \eta^{16} \end{bmatrix}_{1049409} = \begin{bmatrix} 1 & 0 & 0 & 31 \\ 0 & 1 & 1 & 27 \end{bmatrix}_{1049409} = \mathbf{Pl}(2,18,31,18,1,0)_{22326}$$

$$\ell_{127} = \begin{bmatrix} 1 & 0 & 0 & \eta^{18} \\ 0 & 1 & 1 & \eta^{19} \end{bmatrix}_{101665} = \begin{bmatrix} 1 & 0 & 0 & 3 \\ 0 & 1 & 1 & 6 \end{bmatrix}_{101665} = \mathbf{Pl}(2,18,14,18,1,0)_{21799}$$

$$\ell_{128} = \begin{bmatrix} 1 & 0 & 0 & \eta^{17} \\ 0 & 1 & 1 & \eta^{18} \end{bmatrix}_{642753} = \begin{bmatrix} 1 & 0 & 0 & 19 \\ 0 & 1 & 1 & 3 \end{bmatrix}_{642753} = \mathbf{Pl}(2,18,28,18,1,0)_{22233}$$

$$\ell_{129} = \begin{bmatrix} 1 & 0 & 0 & \eta^7 \\ 0 & 1 & 1 & \eta^8 \end{bmatrix}_{676897} = \begin{bmatrix} 1 & 0 & 0 & 20 \\ 0 & 1 & 1 & 13 \end{bmatrix}_{676897} = \mathbf{Pl}(2,18,15,18,1,0)_{21830}$$

$$\ell_{130} = \begin{bmatrix} 1 & 0 & 0 & \eta^{16} \\ 0 & 1 & 1 & \eta^{17} \end{bmatrix}_{913857} = \begin{bmatrix} 1 & 0 & 0 & 27 \\ 0 & 1 & 1 & 19 \end{bmatrix}_{913857} = \mathbf{Pl}(2,18,29,18,1,0)_{22264}$$

$$\ell_{131} = \begin{bmatrix} 1 & \eta^{13} & \eta^{13} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{977724} = \begin{bmatrix} 1 & 28 & 28 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{977724} = \mathbf{Pl}(0,28,0,28,1,0)_{4865}$$

$$\ell_{132} = \begin{bmatrix} 1 & 0 & 0 & \eta^{30} \\ 0 & 1 & 1 & \eta^{17} \end{bmatrix}_{609441} = \begin{bmatrix} 1 & 0 & 0 & 18 \\ 0 & 1 & 1 & 19 \end{bmatrix}_{609441} = \mathbf{Pl}(3,28,29,28,1,0)_{31875}$$

$$\ell_{133} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & \eta^{18} \end{bmatrix}_{33921} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 3 \end{bmatrix}_{33921} = \mathbf{Pl}(3,28,28,28,1,0)_{31844}$$

$$\ell_{134} = \begin{bmatrix} 1 & 0 & 0 & \eta^{13} \\ 0 & 1 & 1 & 1 \end{bmatrix}_{947105} = \begin{bmatrix} 1 & 0 & 0 & 28 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{947105} = \mathbf{Pl}(3,28,1,28,1,0)_{31007}$$

$$\ell_{135} = \begin{bmatrix} 1 & 0 & 0 & \eta^{29} \\ 0 & 1 & 1 & \eta^{16} \end{bmatrix}_{305281} = \begin{bmatrix} 1 & 0 & 0 & 9 \\ 0 & 1 & 1 & 27 \end{bmatrix}_{305281} = \mathbf{Pl}(3,28,31,28,1,0)_{31937}$$

$$\ell_{136} = \begin{bmatrix} 1 & 0 & 0 & \eta^{26} \\ 0 & 1 & 1 & \eta^{13} \end{bmatrix}_{778849} = \begin{bmatrix} 1 & 0 & 0 & 23 \\ 0 & 1 & 1 & 28 \end{bmatrix}_{778849} = \mathbf{Pl}(3,28,3,28,1,0)_{31069}$$

$$\ell_{137} = \begin{bmatrix} 1 & 0 & 0 & \eta^{12} \\ 0 & 1 & 1 & \eta^{30} \end{bmatrix}_{474113} = \begin{bmatrix} 1 & 0 & 0 & 14 \\ 0 & 1 & 1 & 18 \end{bmatrix}_{474113} = \mathbf{Pl}(3,28,2,28,1,0)_{31038}$$

$$\ell_{138} = \begin{bmatrix} 1 & 0 & 0 & \eta^{20} \\ 0 & 1 & 1 & \eta^7 \end{bmatrix}_{406529} = \begin{bmatrix} 1 & 0 & 0 & 12 \\ 0 & 1 & 1 & 20 \end{bmatrix}_{406529} = \mathbf{Pl}(3,28,30,28,1,0)_{31906}$$

$$\ell_{139} = \begin{bmatrix} 1 & 0 & 0 & \eta^{28} \\ 0 & 1 & 1 & \eta^{15} \end{bmatrix}_{745121} = \begin{bmatrix} 1 & 0 & 0 & 22 \\ 0 & 1 & 1 & 31 \end{bmatrix}_{745121} = \mathbf{Pl}(3,28,27,28,1,0)_{31813}$$

$$\ell_{140} = \begin{bmatrix} 1 & 0 & 0 & \eta^2 \\ 0 & 1 & 1 & \eta^{20} \end{bmatrix}_{135681} = \begin{bmatrix} 1 & 0 & 0 & 4 \\ 0 & 1 & 1 & 12 \end{bmatrix}_{135681} = \mathbf{Pl}(3,28,7,28,1,0)_{31193}$$

$$\ell_{141} = \begin{bmatrix} 1 & 0 & 0 & \eta^{25} \\ 0 & 1 & 1 & \eta^{12} \end{bmatrix}_{846049} = \begin{bmatrix} 1 & 0 & 0 & 25 \\ 0 & 1 & 1 & 14 \end{bmatrix}_{846049} = \mathbf{Pl}(3,28,6,28,1,0)_{31162}$$

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$$\ell_{142} = \begin{bmatrix} 1 & 0 & 0 & \eta^4 \\ 0 & 1 & 1 & \eta^{22} \end{bmatrix}_{541857} = \begin{bmatrix} 1 & 0 & 0 & 16 \\ 0 & 1 & 1 & 21 \end{bmatrix}_{541857} = \mathbf{Pl}(3, 28, 26, 28, 1, 0)_{31782}$$

$$\ell_{143} = \begin{bmatrix} 1 & 0 & 0 & \eta^{11} \\ 0 & 1 & 1 & \eta^{29} \end{bmatrix}_{237057} = \begin{bmatrix} 1 & 0 & 0 & 7 \\ 0 & 1 & 1 & 9 \end{bmatrix}_{237057} = \mathbf{Pl}(3, 28, 4, 28, 1, 0)_{31100}$$

$$\ell_{144} = \begin{bmatrix} 1 & 0 & 0 & \eta^{23} \\ 0 & 1 & 1 & \eta^{10} \end{bmatrix}_{507905} = \begin{bmatrix} 1 & 0 & 0 & 15 \\ 0 & 1 & 1 & 17 \end{bmatrix}_{507905} = \mathbf{Pl}(3, 28, 24, 28, 1, 0)_{31720}$$

$$\ell_{145} = \begin{bmatrix} 1 & 0 & 0 & \eta^{19} \\ 0 & 1 & 1 & \eta^{6} \end{bmatrix}_{203265} = \begin{bmatrix} 1 & 0 & 0 & 6 \\ 0 & 1 & 1 & 10 \end{bmatrix}_{203265} = \mathbf{Pl}(3, 28, 25, 28, 1, 0)_{31751}$$

$$\ell_{146} = \begin{bmatrix} 1 & 0 & 0 & \eta^{8} \\ 0 & 1 & 1 & \eta^{26} \end{bmatrix}_{440449} = \begin{bmatrix} 1 & 0 & 0 & 13 \\ 0 & 1 & 1 & 23 \end{bmatrix}_{440449} = \mathbf{Pl}(3, 28, 5, 28, 1, 0)_{31131}$$

$$\ell_{147} = \begin{bmatrix} 1 & 0 & 0 & \eta^{27} \\ 0 & 1 & 1 & \eta^{14} \end{bmatrix}_{372993} = \begin{bmatrix} 1 & 0 & 0 & 11 \\ 0 & 1 & 1 & 29 \end{bmatrix}_{372993} = \mathbf{Pl}(3, 28, 19, 28, 1, 0)_{31565}$$

$$\ell_{148} = \begin{bmatrix} 1 & 0 & 0 & \eta^{21} \\ 0 & 1 & 1 & \eta^{8} \end{bmatrix}_{812193} = \begin{bmatrix} 1 & 0 & 0 & 24 \\ 0 & 1 & 1 & 13 \end{bmatrix}_{812193} = \mathbf{Pl}(3, 28, 15, 28, 1, 0)_{31441}$$

$$\ell_{149} = \begin{bmatrix} 1 & 0 & 0 & \eta \\ 0 & 1 & 1 & \eta^{19} \end{bmatrix}_{67841} = \begin{bmatrix} 1 & 0 & 0 & 2 \\ 0 & 1 & 1 & 6 \end{bmatrix}_{67841} = \mathbf{Pl}(3, 28, 14, 28, 1, 0)_{31410}$$

$$\ell_{150} = \begin{bmatrix} 1 & 0 & 0 & \eta^{14} \\ 0 & 1 & 1 & \eta \end{bmatrix}_{980961} = \begin{bmatrix} 1 & 0 & 0 & 29 \\ 0 & 1 & 1 & 2 \end{bmatrix}_{980961} = \mathbf{Pl}(3, 28, 18, 28, 1, 0)_{31534}$$

$$\ell_{151} = \begin{bmatrix} 1 & 0 & 0 & \eta^{24} \\ 0 & 1 & 1 & \eta^{11} \end{bmatrix}_{1014945} = \begin{bmatrix} 1 & 0 & 0 & 30 \\ 0 & 1 & 1 & 7 \end{bmatrix}_{1014945} = \mathbf{Pl}(3, 28, 12, 28, 1, 0)_{31348}$$

$$\ell_{152} = \begin{bmatrix} 1 & 0 & 0 & \eta^{9} \\ 0 & 1 & 1 & \eta^{27} \end{bmatrix}_{879777} = \begin{bmatrix} 1 & 0 & 0 & 26 \\ 0 & 1 & 1 & 11 \end{bmatrix}_{879777} = \mathbf{Pl}(3, 28, 16, 28, 1, 0)_{31472}$$

$$\ell_{153} = \begin{bmatrix} 1 & 0 & 0 & \eta^{3} \\ 0 & 1 & 1 & \eta^{21} \end{bmatrix}_{271361} = \begin{bmatrix} 1 & 0 & 0 & 8 \\ 0 & 1 & 1 & 24 \end{bmatrix}_{271361} = \mathbf{Pl}(3, 28, 17, 28, 1, 0)_{31503}$$

$$\ell_{154} = \begin{bmatrix} 1 & 0 & 0 & \eta^{5} \\ 0 & 1 & 1 & \eta^{23} \end{bmatrix}_{169601} = \begin{bmatrix} 1 & 0 & 0 & 5 \\ 0 & 1 & 1 & 15 \end{bmatrix}_{169601} = \mathbf{Pl}(3, 28, 13, 28, 1, 0)_{31379}$$

$$\ell_{155} = \begin{bmatrix} 1 & 0 & 0 & \eta^{10} \\ 0 & 1 & 1 & \eta^{28} \end{bmatrix}_{575713} = \begin{bmatrix} 1 & 0 & 0 & 17 \\ 0 & 1 & 1 & 22 \end{bmatrix}_{575713} = \mathbf{Pl}(3, 28, 8, 28, 1, 0)_{31224}$$

$$\ell_{156} = \begin{bmatrix} 1 & 0 & 0 & \eta^{6} \\ 0 & 1 & 1 & \eta^{24} \end{bmatrix}_{339201} = \begin{bmatrix} 1 & 0 & 0 & 10 \\ 0 & 1 & 1 & 30 \end{bmatrix}_{339201} = \mathbf{Pl}(3, 28, 20, 28, 1, 0)_{31596}$$

$$\ell_{157} = \begin{bmatrix} 1 & 0 & 0 & \eta^{22} \\ 0 & 1 & 1 & \eta^{9} \end{bmatrix}_{711137} = \begin{bmatrix} 1 & 0 & 0 & 21 \\ 0 & 1 & 1 & 26 \end{bmatrix}_{711137} = \mathbf{Pl}(3, 28, 21, 28, 1, 0)_{31627}$$

$$\ell_{158} = \begin{bmatrix} 1 & 0 & 0 & \eta^{15} \\ 0 & 1 & 1 & \eta^{2} \end{bmatrix}_{1048673} = \begin{bmatrix} 1 & 0 & 0 & 31 \\ 0 & 1 & 1 & 4 \end{bmatrix}_{1048673} = \mathbf{Pl}(3, 28, 9, 28, 1, 0)_{31255}$$

$$\ell_{159} = \begin{bmatrix} 1 & 0 & 0 & \eta^{18} \\ 0 & 1 & 1 & \eta^{5} \end{bmatrix}_{101633} = \begin{bmatrix} 1 & 0 & 0 & 3 \\ 0 & 1 & 1 & 5 \end{bmatrix}_{101633} = \mathbf{Pl}(3, 28, 23, 28, 1, 0)_{31689}$$

$$\ell_{160} = \begin{bmatrix} 1 & 0 & 0 & \eta^{17} \\ 0 & 1 & 1 & \eta^{4} \end{bmatrix}_{643169} = \begin{bmatrix} 1 & 0 & 0 & 19 \\ 0 & 1 & 1 & 16 \end{bmatrix}_{643169} = \mathbf{Pl}(3, 28, 11, 28, 1, 0)_{31317}$$

$$\ell_{161} = \begin{bmatrix} 1 & 0 & 0 & \eta^{7} \\ 0 & 1 & 1 & \eta^{25} \end{bmatrix}_{677281} = \begin{bmatrix} 1 & 0 & 0 & 20 \\ 0 & 1 & 1 & 25 \end{bmatrix}_{677281} = \mathbf{Pl}(3, 28, 10, 28, 1, 0)_{31286}$$

$$\ell_{162} = \begin{bmatrix} 1 & 0 & 0 & \eta^{16} \\ 0 & 1 & 1 & \eta^{3} \end{bmatrix}_{913505} = \begin{bmatrix} 1 & 0 & 0 & 27 \\ 0 & 1 & 1 & 8 \end{bmatrix}_{913505} = \mathbf{Pl}(3, 28, 22, 28, 1, 0)_{31658}$$

$$\ell_{163} = \begin{bmatrix} 1 & \eta^{29} & \eta^{29} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{314985} = \begin{bmatrix} 1 & 9 & 9 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{314985} = \mathbf{Pl}(0,9,0,9,1,0)_{3649}$$

$$\ell_{164} = \begin{bmatrix} 1 & 0 & 0 & \eta^{26} \\ 0 & 1 & 1 & \eta^{28} \end{bmatrix}_{778657} = \begin{bmatrix} 1 & 0 & 0 & 23 \\ 0 & 1 & 1 & 22 \end{bmatrix}_{778657} = \mathbf{Pl}(4,9,8,9,1,0)_{12966}$$

$$\ell_{165} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & \eta^{2} \end{bmatrix}_{33953} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 4 \end{bmatrix}_{33953} = \mathbf{Pl}(4,9,9,9,1,0)_{12997}$$

$$\ell_{166} = \begin{bmatrix} 1 & 0 & 0 & \eta^{30} \\ 0 & 1 & 1 & \eta \end{bmatrix}_{608897} = \begin{bmatrix} 1 & 0 & 0 & 18 \\ 0 & 1 & 1 & 2 \end{bmatrix}_{608897} = \mathbf{Pl}(4,9,18,9,1,0)_{13276}$$

$$\ell_{167} = \begin{bmatrix} 1 & 0 & 0 & \eta^{13} \\ 0 & 1 & 1 & \eta^{15} \end{bmatrix}_{948065} = \begin{bmatrix} 1 & 0 & 0 & 28 \\ 0 & 1 & 1 & 31 \end{bmatrix}_{948065} = \mathbf{Pl}(4,9,27,9,1,0)_{13555}$$

$$\ell_{168} = \begin{bmatrix} 1 & 0 & 0 & \eta^{29} \\ 0 & 1 & 1 & 1 \end{bmatrix}_{304449} = \begin{bmatrix} 1 & 0 & 0 & 9 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{304449} = \mathbf{Pl}(4,9,1,9,1,0)_{12749}$$

$$\ell_{169} = \begin{bmatrix} 1 & 0 & 0 & \eta^{12} \\ 0 & 1 & 1 & \eta^{14} \end{bmatrix}_{474465} = \begin{bmatrix} 1 & 0 & 0 & 14 \\ 0 & 1 & 1 & 29 \end{bmatrix}_{474465} = \mathbf{Pl}(4,9,19,9,1,0)_{13307}$$

$$\ell_{170} = \begin{bmatrix} 1 & 0 & 0 & \eta^{20} \\ 0 & 1 & 1 & \eta^{22} \end{bmatrix}_{406561} = \begin{bmatrix} 1 & 0 & 0 & 12 \\ 0 & 1 & 1 & 21 \end{bmatrix}_{406561} = \mathbf{Pl}(4,9,26,9,1,0)_{13524}$$

$$\ell_{171} = \begin{bmatrix} 1 & 0 & 0 & \eta^{28} \\ 0 & 1 & 1 & \eta^{30} \end{bmatrix}_{744705} = \begin{bmatrix} 1 & 0 & 0 & 22 \\ 0 & 1 & 1 & 18 \end{bmatrix}_{744705} = \mathbf{Pl}(4,9,2,9,1,0)_{12780}$$

$$\ell_{172} = \begin{bmatrix} 1 & 0 & 0 & \eta^{2} \\ 0 & 1 & 1 & \eta^{4} \end{bmatrix}_{135809} = \begin{bmatrix} 1 & 0 & 0 & 4 \\ 0 & 1 & 1 & 16 \end{bmatrix}_{135809} = \mathbf{Pl}(4,9,11,9,1,0)_{13059}$$

$$\ell_{173} = \begin{bmatrix} 1 & 0 & 0 & \eta^{25} \\ 0 & 1 & 1 & \eta^{27} \end{bmatrix}_{845953} = \begin{bmatrix} 1 & 0 & 0 & 25 \\ 0 & 1 & 1 & 11 \end{bmatrix}_{845953} = \mathbf{Pl}(4,9,16,9,1,0)_{13214}$$

$$\ell_{174} = \begin{bmatrix} 1 & 0 & 0 & \eta^{4} \\ 0 & 1 & 1 & \eta^{6} \end{bmatrix}_{541505} = \begin{bmatrix} 1 & 0 & 0 & 16 \\ 0 & 1 & 1 & 10 \end{bmatrix}_{541505} = \mathbf{Pl}(4,9,25,9,1,0)_{13493}$$

$$\ell_{175} = \begin{bmatrix} 1 & 0 & 0 & \eta^{11} \\ 0 & 1 & 1 & \eta^{13} \end{bmatrix}_{237665} = \begin{bmatrix} 1 & 0 & 0 & 7 \\ 0 & 1 & 1 & 28 \end{bmatrix}_{237665} = \mathbf{Pl}(4,9,3,9,1,0)_{12811}$$

$$\ell_{176} = \begin{bmatrix} 1 & 0 & 0 & \eta^{23} \\ 0 & 1 & 1 & \eta^{25} \end{bmatrix}_{508161} = \begin{bmatrix} 1 & 0 & 0 & 15 \\ 0 & 1 & 1 & 25 \end{bmatrix}_{508161} = \mathbf{Pl}(4,9,10,9,1,0)_{13028}$$

$$\ell_{177} = \begin{bmatrix} 1 & 0 & 0 & \eta^{19} \\ 0 & 1 & 1 & \eta^{21} \end{bmatrix}_{203713} = \begin{bmatrix} 1 & 0 & 0 & 6 \\ 0 & 1 & 1 & 24 \end{bmatrix}_{203713} = \mathbf{Pl}(4,9,17,9,1,0)_{13245}$$

$$\ell_{178} = \begin{bmatrix} 1 & 0 & 0 & \eta^{8} \\ 0 & 1 & 1 & \eta^{10} \end{bmatrix}_{440257} = \begin{bmatrix} 1 & 0 & 0 & 13 \\ 0 & 1 & 1 & 17 \end{bmatrix}_{440257} = \mathbf{Pl}(4,9,24,9,1,0)_{13462}$$

$$\ell_{179} = \begin{bmatrix} 1 & 0 & 0 & \eta^{27} \\ 0 & 1 & 1 & \eta^{29} \end{bmatrix}_{372353} = \begin{bmatrix} 1 & 0 & 0 & 11 \\ 0 & 1 & 1 & 9 \end{bmatrix}_{372353} = \mathbf{Pl}(4,9,4,9,1,0)_{12842}$$

$$\ell_{180} = \begin{bmatrix} 1 & 0 & 0 & \eta^{21} \\ 0 & 1 & 1 & \eta^{23} \end{bmatrix}_{812257} = \begin{bmatrix} 1 & 0 & 0 & 24 \\ 0 & 1 & 1 & 15 \end{bmatrix}_{812257} = \mathbf{Pl}(4,9,13,9,1,0)_{13121}$$

$$\ell_{181} = \begin{bmatrix} 1 & 0 & 0 & \eta \\ 0 & 1 & 1 & \eta^{3} \end{bmatrix}_{67905} = \begin{bmatrix} 1 & 0 & 0 & 2 \\ 0 & 1 & 1 & 8 \end{bmatrix}_{67905} = \mathbf{Pl}(4,9,22,9,1,0)_{13400}$$

$$\ell_{182} = \begin{bmatrix} 1 & 0 & 0 & \eta^{14} \\ 0 & 1 & 1 & \eta^{16} \end{bmatrix}_{981761} = \begin{bmatrix} 1 & 0 & 0 & 29 \\ 0 & 1 & 1 & 27 \end{bmatrix}_{981761} = \mathbf{Pl}(4,9,31,9,1,0)_{13679}$$

$$\ell_{183} = \begin{bmatrix} 1 & 0 & 0 & \eta^{24} \\ 0 & 1 & 1 & \eta^{26} \end{bmatrix}_{1015457} = \begin{bmatrix} 1 & 0 & 0 & 30 \\ 0 & 1 & 1 & 23 \end{bmatrix}_{1015457} = \mathbf{Pl}(4,9,5,9,1,0)_{12873}$$

$$\ell_{184} = \begin{bmatrix} 1 & 0 & 0 & \eta^9 \\ 0 & 1 & 1 & \eta^{11} \end{bmatrix}_{879649} = \begin{bmatrix} 1 & 0 & 0 & 26 \\ 0 & 1 & 1 & 7 \end{bmatrix}_{879649} = \mathbf{Pl}(4,9,12,9,1,0)_{13090}$$

$$\ell_{185} = \begin{bmatrix} 1 & 0 & 0 & \eta^3 \\ 0 & 1 & 1 & \eta^5 \end{bmatrix}_{270753} = \begin{bmatrix} 1 & 0 & 0 & 8 \\ 0 & 1 & 1 & 5 \end{bmatrix}_{270753} = \mathbf{Pl}(4,9,23,9,1,0)_{13431}$$

$$\ell_{186} = \begin{bmatrix} 1 & 0 & 0 & \eta^5 \\ 0 & 1 & 1 & \eta^7 \end{bmatrix}_{169761} = \begin{bmatrix} 1 & 0 & 0 & 5 \\ 0 & 1 & 1 & 20 \end{bmatrix}_{169761} = \mathbf{Pl}(4,9,30,9,1,0)_{13648}$$

$$\ell_{187} = \begin{bmatrix} 1 & 0 & 0 & \eta^{10} \\ 0 & 1 & 1 & \eta^{12} \end{bmatrix}_{575457} = \begin{bmatrix} 1 & 0 & 0 & 17 \\ 0 & 1 & 1 & 14 \end{bmatrix}_{575457} = \mathbf{Pl}(4,9,6,9,1,0)_{12904}$$

$$\ell_{188} = \begin{bmatrix} 1 & 0 & 0 & \eta^6 \\ 0 & 1 & 1 & \eta^8 \end{bmatrix}_{338657} = \begin{bmatrix} 1 & 0 & 0 & 10 \\ 0 & 1 & 1 & 13 \end{bmatrix}_{338657} = \mathbf{Pl}(4,9,15,9,1,0)_{13183}$$

$$\ell_{189} = \begin{bmatrix} 1 & 0 & 0 & \eta^{22} \\ 0 & 1 & 1 & \eta^{24} \end{bmatrix}_{711265} = \begin{bmatrix} 1 & 0 & 0 & 21 \\ 0 & 1 & 1 & 30 \end{bmatrix}_{711265} = \mathbf{Pl}(4,9,20,9,1,0)_{13338}$$

$$\ell_{190} = \begin{bmatrix} 1 & 0 & 0 & \eta^{15} \\ 0 & 1 & 1 & \eta^{17} \end{bmatrix}_{1049153} = \begin{bmatrix} 1 & 0 & 0 & 31 \\ 0 & 1 & 1 & 19 \end{bmatrix}_{1049153} = \mathbf{Pl}(4,9,29,9,1,0)_{13617}$$

$$\ell_{191} = \begin{bmatrix} 1 & 0 & 0 & \eta^{18} \\ 0 & 1 & 1 & \eta^{20} \end{bmatrix}_{101857} = \begin{bmatrix} 1 & 0 & 0 & 3 \\ 0 & 1 & 1 & 12 \end{bmatrix}_{101857} = \mathbf{Pl}(4,9,7,9,1,0)_{12935}$$

$$\ell_{192} = \begin{bmatrix} 1 & 0 & 0 & \eta^{17} \\ 0 & 1 & 1 & \eta^{19} \end{bmatrix}_{642849} = \begin{bmatrix} 1 & 0 & 0 & 19 \\ 0 & 1 & 1 & 6 \end{bmatrix}_{642849} = \mathbf{Pl}(4,9,14,9,1,0)_{13152}$$

$$\ell_{193} = \begin{bmatrix} 1 & 0 & 0 & \eta^7 \\ 0 & 1 & 1 & \eta^9 \end{bmatrix}_{677313} = \begin{bmatrix} 1 & 0 & 0 & 20 \\ 0 & 1 & 1 & 26 \end{bmatrix}_{677313} = \mathbf{Pl}(4,9,21,9,1,0)_{13369}$$

$$\ell_{194} = \begin{bmatrix} 1 & 0 & 0 & \eta^{16} \\ 0 & 1 & 1 & \eta^{18} \end{bmatrix}_{913345} = \begin{bmatrix} 1 & 0 & 0 & 27 \\ 0 & 1 & 1 & 3 \end{bmatrix}_{913345} = \mathbf{Pl}(4,9,28,9,1,0)_{13586}$$

$$\ell_{195} = \begin{bmatrix} 1 & \eta^{26} & \eta^{26} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{803319} = \begin{bmatrix} 1 & 23 & 23 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{803319} = \mathbf{Pl}(0,23,0,23,1,0)_{4545}$$

$$\ell_{196} = \begin{bmatrix} 1 & 0 & 0 & \eta^{29} \\ 0 & 1 & 1 & \eta^3 \end{bmatrix}_{304673} = \begin{bmatrix} 1 & 0 & 0 & 9 \\ 0 & 1 & 1 & 8 \end{bmatrix}_{304673} = \mathbf{Pl}(5,23,22,23,1,0)_{26855}$$

$$\ell_{197} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & \eta^5 \end{bmatrix}_{33985} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 5 \end{bmatrix}_{33985} = \mathbf{Pl}(5,23,23,23,1,0)_{26886}$$

$$\ell_{198} = \begin{bmatrix} 1 & 0 & 0 & \eta^{30} \\ 0 & 1 & 1 & \eta^4 \end{bmatrix}_{609345} = \begin{bmatrix} 1 & 0 & 0 & 18 \\ 0 & 1 & 1 & 16 \end{bmatrix}_{609345} = \mathbf{Pl}(5,23,11,23,1,0)_{26514}$$

$$\ell_{199} = \begin{bmatrix} 1 & 0 & 0 & \eta^{13} \\ 0 & 1 & 1 & \eta^{18} \end{bmatrix}_{947169} = \begin{bmatrix} 1 & 0 & 0 & 28 \\ 0 & 1 & 1 & 3 \end{bmatrix}_{947169} = \mathbf{Pl}(5,23,28,23,1,0)_{27041}$$

$$\ell_{200} = \begin{bmatrix} 1 & 0 & 0 & \eta^{26} \\ 0 & 1 & 1 & 1 \end{bmatrix}_{777985} = \begin{bmatrix} 1 & 0 & 0 & 23 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{777985} = \mathbf{Pl}(5,23,1,23,1,0)_{26204}$$

$$\ell_{201} = \begin{bmatrix} 1 & 0 & 0 & \eta^{12} \\ 0 & 1 & 1 & \eta^{17} \end{bmatrix}_{474145} = \begin{bmatrix} 1 & 0 & 0 & 14 \\ 0 & 1 & 1 & 19 \end{bmatrix}_{474145} = \mathbf{Pl}(5,23,29,23,1,0)_{27072}$$

$$\ell_{202} = \begin{bmatrix} 1 & 0 & 0 & \eta^{20} \\ 0 & 1 & 1 & \eta^{25} \end{bmatrix}_{406689} = \begin{bmatrix} 1 & 0 & 0 & 12 \\ 0 & 1 & 1 & 25 \end{bmatrix}_{406689} = \mathbf{Pl}(5,23,10,23,1,0)_{26483}$$

$$\ell_{203} = \begin{bmatrix} 1 & 0 & 0 & \eta^{28} \\ 0 & 1 & 1 & \eta^2 \end{bmatrix}_{744257} = \begin{bmatrix} 1 & 0 & 0 & 22 \\ 0 & 1 & 1 & 4 \end{bmatrix}_{744257} = \mathbf{Pl}(5,23,9,23,1,0)_{26452}$$

$$\ell_{204} = \begin{bmatrix} 1 & 0 & 0 & \eta^2 \\ 0 & 1 & 1 & \eta^7 \end{bmatrix}_{135937} = \begin{bmatrix} 1 & 0 & 0 & 4 \\ 0 & 1 & 1 & 20 \end{bmatrix}_{135937} = \mathbf{Pl}(5,23,30,23,1,0)_{27103}$$

$$\ell_{205} = \begin{bmatrix} 1 & 0 & 0 & \eta^{25} \\ 0 & 1 & 1 & \eta^{30} \end{bmatrix}_{846177} = \begin{bmatrix} 1 & 0 & 0 & 25 \\ 0 & 1 & 1 & 18 \end{bmatrix}_{846177} = \mathbf{Pl}(5, 23, 2, 23, 1, 0)_{26235}$$

$$\ell_{206} = \begin{bmatrix} 1 & 0 & 0 & \eta^{4} \\ 0 & 1 & 1 & \eta^{9} \end{bmatrix}_{542017} = \begin{bmatrix} 1 & 0 & 0 & 16 \\ 0 & 1 & 1 & 26 \end{bmatrix}_{542017} = \mathbf{Pl}(5, 23, 21, 23, 1, 0)_{26824}$$

$$\ell_{207} = \begin{bmatrix} 1 & 0 & 0 & \eta^{11} \\ 0 & 1 & 1 & \eta^{16} \end{bmatrix}_{237633} = \begin{bmatrix} 1 & 0 & 0 & 7 \\ 0 & 1 & 1 & 27 \end{bmatrix}_{237633} = \mathbf{Pl}(5, 23, 31, 23, 1, 0)_{27134}$$

$$\ell_{208} = \begin{bmatrix} 1 & 0 & 0 & \eta^{23} \\ 0 & 1 & 1 & \eta^{28} \end{bmatrix}_{508065} = \begin{bmatrix} 1 & 0 & 0 & 15 \\ 0 & 1 & 1 & 22 \end{bmatrix}_{508065} = \mathbf{Pl}(5, 23, 8, 23, 1, 0)_{26421}$$

$$\ell_{209} = \begin{bmatrix} 1 & 0 & 0 & \eta^{19} \\ 0 & 1 & 1 & \eta^{24} \end{bmatrix}_{203905} = \begin{bmatrix} 1 & 0 & 0 & 6 \\ 0 & 1 & 1 & 30 \end{bmatrix}_{203905} = \mathbf{Pl}(5, 23, 20, 23, 1, 0)_{26793}$$

$$\ell_{210} = \begin{bmatrix} 1 & 0 & 0 & \eta^{8} \\ 0 & 1 & 1 & \eta^{13} \end{bmatrix}_{440609} = \begin{bmatrix} 1 & 0 & 0 & 13 \\ 0 & 1 & 1 & 28 \end{bmatrix}_{440609} = \mathbf{Pl}(5, 23, 3, 23, 1, 0)_{26266}$$

$$\ell_{211} = \begin{bmatrix} 1 & 0 & 0 & \eta^{27} \\ 0 & 1 & 1 & \eta \end{bmatrix}_{372129} = \begin{bmatrix} 1 & 0 & 0 & 11 \\ 0 & 1 & 1 & 2 \end{bmatrix}_{372129} = \mathbf{Pl}(5, 23, 18, 23, 1, 0)_{26731}$$

$$\ell_{212} = \begin{bmatrix} 1 & 0 & 0 & \eta^{21} \\ 0 & 1 & 1 & \eta^{26} \end{bmatrix}_{812513} = \begin{bmatrix} 1 & 0 & 0 & 24 \\ 0 & 1 & 1 & 23 \end{bmatrix}_{812513} = \mathbf{Pl}(5, 23, 5, 23, 1, 0)_{26328}$$

$$\ell_{213} = \begin{bmatrix} 1 & 0 & 0 & \eta \\ 0 & 1 & 1 & \eta^{6} \end{bmatrix}_{67969} = \begin{bmatrix} 1 & 0 & 0 & 2 \\ 0 & 1 & 1 & 10 \end{bmatrix}_{67969} = \mathbf{Pl}(5, 23, 25, 23, 1, 0)_{26948}$$

$$\ell_{214} = \begin{bmatrix} 1 & 0 & 0 & \eta^{14} \\ 0 & 1 & 1 & \eta^{19} \end{bmatrix}_{981089} = \begin{bmatrix} 1 & 0 & 0 & 29 \\ 0 & 1 & 1 & 6 \end{bmatrix}_{981089} = \mathbf{Pl}(5, 23, 14, 23, 1, 0)_{26607}$$

$$\ell_{215} = \begin{bmatrix} 1 & 0 & 0 & \eta^{24} \\ 0 & 1 & 1 & \eta^{29} \end{bmatrix}_{1015009} = \begin{bmatrix} 1 & 0 & 0 & 30 \\ 0 & 1 & 1 & 9 \end{bmatrix}_{1015009} = \mathbf{Pl}(5, 23, 4, 23, 1, 0)_{26297}$$

$$\ell_{216} = \begin{bmatrix} 1 & 0 & 0 & \eta^{9} \\ 0 & 1 & 1 & \eta^{14} \end{bmatrix}_{880353} = \begin{bmatrix} 1 & 0 & 0 & 26 \\ 0 & 1 & 1 & 29 \end{bmatrix}_{880353} = \mathbf{Pl}(5, 23, 19, 23, 1, 0)_{26762}$$

$$\ell_{217} = \begin{bmatrix} 1 & 0 & 0 & \eta^{3} \\ 0 & 1 & 1 & \eta^{8} \end{bmatrix}_{271009} = \begin{bmatrix} 1 & 0 & 0 & 8 \\ 0 & 1 & 1 & 13 \end{bmatrix}_{271009} = \mathbf{Pl}(5, 23, 15, 23, 1, 0)_{26638}$$

$$\ell_{218} = \begin{bmatrix} 1 & 0 & 0 & \eta^{5} \\ 0 & 1 & 1 & \eta^{10} \end{bmatrix}_{169665} = \begin{bmatrix} 1 & 0 & 0 & 5 \\ 0 & 1 & 1 & 17 \end{bmatrix}_{169665} = \mathbf{Pl}(5, 23, 24, 23, 1, 0)_{26917}$$

$$\ell_{219} = \begin{bmatrix} 1 & 0 & 0 & \eta^{10} \\ 0 & 1 & 1 & \eta^{15} \end{bmatrix}_{576001} = \begin{bmatrix} 1 & 0 & 0 & 17 \\ 0 & 1 & 1 & 31 \end{bmatrix}_{576001} = \mathbf{Pl}(5, 23, 27, 23, 1, 0)_{27010}$$

$$\ell_{220} = \begin{bmatrix} 1 & 0 & 0 & \eta^{6} \\ 0 & 1 & 1 & \eta^{11} \end{bmatrix}_{338465} = \begin{bmatrix} 1 & 0 & 0 & 10 \\ 0 & 1 & 1 & 7 \end{bmatrix}_{338465} = \mathbf{Pl}(5, 23, 12, 23, 1, 0)_{26545}$$

$$\ell_{221} = \begin{bmatrix} 1 & 0 & 0 & \eta^{22} \\ 0 & 1 & 1 & \eta^{27} \end{bmatrix}_{710657} = \begin{bmatrix} 1 & 0 & 0 & 21 \\ 0 & 1 & 1 & 11 \end{bmatrix}_{710657} = \mathbf{Pl}(5, 23, 16, 23, 1, 0)_{26669}$$

$$\ell_{222} = \begin{bmatrix} 1 & 0 & 0 & \eta^{15} \\ 0 & 1 & 1 & \eta^{20} \end{bmatrix}_{1048929} = \begin{bmatrix} 1 & 0 & 0 & 31 \\ 0 & 1 & 1 & 12 \end{bmatrix}_{1048929} = \mathbf{Pl}(5, 23, 7, 23, 1, 0)_{26390}$$

$$\ell_{223} = \begin{bmatrix} 1 & 0 & 0 & \eta^{18} \\ 0 & 1 & 1 & \eta^{23} \end{bmatrix}_{101953} = \begin{bmatrix} 1 & 0 & 0 & 3 \\ 0 & 1 & 1 & 15 \end{bmatrix}_{101953} = \mathbf{Pl}(5, 23, 13, 23, 1, 0)_{26576}$$

$$\ell_{224} = \begin{bmatrix} 1 & 0 & 0 & \eta^{17} \\ 0 & 1 & 1 & \eta^{22} \end{bmatrix}_{643329} = \begin{bmatrix} 1 & 0 & 0 & 19 \\ 0 & 1 & 1 & 21 \end{bmatrix}_{643329} = \mathbf{Pl}(5, 23, 26, 23, 1, 0)_{26979}$$

$$\ell_{225} = \begin{bmatrix} 1 & 0 & 0 & \eta^{7} \\ 0 & 1 & 1 & \eta^{12} \end{bmatrix}_{676929} = \begin{bmatrix} 1 & 0 & 0 & 20 \\ 0 & 1 & 1 & 14 \end{bmatrix}_{676929} = \mathbf{Pl}(5, 23, 6, 23, 1, 0)_{26359}$$

$$\ell_{226} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{16} \\ 0 & 1 & 1 & \eta^{21} \end{array}\right]_{914017} = \left[\begin{array}{cccc} 1 & 0 & 0 & 27 \\ 0 & 1 & 1 & 24 \end{array}\right]_{914017} = \mathbf{Pl}(5,23,17,23,1,0)_{26700}$$

$$\ell_{227} = \left[\begin{array}{cccc} 1 & \eta^{12} & \eta^{12} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{489390} = \left[\begin{array}{cccc} 1 & 14 & 14 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{489390} = \mathbf{Pl}(0,14,0,14,1,0)_{3969}$$

$$\ell_{228} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{20} \\ 0 & 1 & 1 & \eta^{8} \end{array}\right]_{406305} = \left[\begin{array}{cccc} 1 & 0 & 0 & 12 \\ 0 & 1 & 1 & 13 \end{array}\right]_{406305} = \mathbf{Pl}(6,14,15,14,1,0)_{17990}$$

$$\ell_{229} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & \eta^{19} \end{array}\right]_{34017} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 6 \end{array}\right]_{34017} = \mathbf{Pl}(6,14,14,14,1,0)_{17959}$$

$$\ell_{230} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{30} \\ 0 & 1 & 1 & \eta^{18} \end{array}\right]_{608929} = \left[\begin{array}{cccc} 1 & 0 & 0 & 18 \\ 0 & 1 & 1 & 3 \end{array}\right]_{608929} = \mathbf{Pl}(6,14,28,14,1,0)_{18393}$$

$$\ell_{231} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{13} \\ 0 & 1 & 1 & \eta \end{array}\right]_{947137} = \left[\begin{array}{cccc} 1 & 0 & 0 & 28 \\ 0 & 1 & 1 & 2 \end{array}\right]_{947137} = \mathbf{Pl}(6,14,18,14,1,0)_{18083}$$

$$\ell_{232} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{29} \\ 0 & 1 & 1 & \eta^{17} \end{array}\right]_{305025} = \left[\begin{array}{cccc} 1 & 0 & 0 & 9 \\ 0 & 1 & 1 & 19 \end{array}\right]_{305025} = \mathbf{Pl}(6,14,29,14,1,0)_{18424}$$

$$\ell_{233} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{26} \\ 0 & 1 & 1 & \eta^{14} \end{array}\right]_{778881} = \left[\begin{array}{cccc} 1 & 0 & 0 & 23 \\ 0 & 1 & 1 & 29 \end{array}\right]_{778881} = \mathbf{Pl}(6,14,19,14,1,0)_{18114}$$

$$\ell_{234} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{12} \\ 0 & 1 & 1 & 1 \end{array}\right]_{473569} = \left[\begin{array}{cccc} 1 & 0 & 0 & 14 \\ 0 & 1 & 1 & 1 \end{array}\right]_{473569} = \mathbf{Pl}(6,14,1,14,1,0)_{17556}$$

$$\ell_{235} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{28} \\ 0 & 1 & 1 & \eta^{16} \end{array}\right]_{744993} = \left[\begin{array}{cccc} 1 & 0 & 0 & 22 \\ 0 & 1 & 1 & 27 \end{array}\right]_{744993} = \mathbf{Pl}(6,14,31,14,1,0)_{18486}$$

$$\ell_{236} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{2} \\ 0 & 1 & 1 & \eta^{21} \end{array}\right]_{136065} = \left[\begin{array}{cccc} 1 & 0 & 0 & 4 \\ 0 & 1 & 1 & 24 \end{array}\right]_{136065} = \mathbf{Pl}(6,14,17,14,1,0)_{18052}$$

$$\ell_{237} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{25} \\ 0 & 1 & 1 & \eta^{13} \end{array}\right]_{846497} = \left[\begin{array}{cccc} 1 & 0 & 0 & 25 \\ 0 & 1 & 1 & 28 \end{array}\right]_{846497} = \mathbf{Pl}(6,14,3,14,1,0)_{17618}$$

$$\ell_{238} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{4} \\ 0 & 1 & 1 & \eta^{23} \end{array}\right]_{541665} = \left[\begin{array}{cccc} 1 & 0 & 0 & 16 \\ 0 & 1 & 1 & 15 \end{array}\right]_{541665} = \mathbf{Pl}(6,14,13,14,1,0)_{17928}$$

$$\ell_{239} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{11} \\ 0 & 1 & 1 & \eta^{30} \end{array}\right]_{237345} = \left[\begin{array}{cccc} 1 & 0 & 0 & 7 \\ 0 & 1 & 1 & 18 \end{array}\right]_{237345} = \mathbf{Pl}(6,14,2,14,1,0)_{17587}$$

$$\ell_{240} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{23} \\ 0 & 1 & 1 & \eta^{11} \end{array}\right]_{507585} = \left[\begin{array}{cccc} 1 & 0 & 0 & 15 \\ 0 & 1 & 1 & 7 \end{array}\right]_{507585} = \mathbf{Pl}(6,14,12,14,1,0)_{17897}$$

$$\ell_{241} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{19} \\ 0 & 1 & 1 & \eta^{7} \end{array}\right]_{203585} = \left[\begin{array}{cccc} 1 & 0 & 0 & 6 \\ 0 & 1 & 1 & 20 \end{array}\right]_{203585} = \mathbf{Pl}(6,14,30,14,1,0)_{18455}$$

$$\ell_{242} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{8} \\ 0 & 1 & 1 & \eta^{27} \end{array}\right]_{440065} = \left[\begin{array}{cccc} 1 & 0 & 0 & 13 \\ 0 & 1 & 1 & 11 \end{array}\right]_{440065} = \mathbf{Pl}(6,14,16,14,1,0)_{18021}$$

$$\ell_{243} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{27} \\ 0 & 1 & 1 & \eta^{15} \end{array}\right]_{373057} = \left[\begin{array}{cccc} 1 & 0 & 0 & 11 \\ 0 & 1 & 1 & 31 \end{array}\right]_{373057} = \mathbf{Pl}(6,14,27,14,1,0)_{18362}$$

$$\ell_{244} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{21} \\ 0 & 1 & 1 & \eta^{9} \end{array}\right]_{812609} = \left[\begin{array}{cccc} 1 & 0 & 0 & 24 \\ 0 & 1 & 1 & 26 \end{array}\right]_{812609} = \mathbf{Pl}(6,14,21,14,1,0)_{18176}$$

$$\ell_{245} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta \\ 0 & 1 & 1 & \eta^{20} \end{array}\right]_{68033} = \left[\begin{array}{cccc} 1 & 0 & 0 & 2 \\ 0 & 1 & 1 & 12 \end{array}\right]_{68033} = \mathbf{Pl}(6,14,7,14,1,0)_{17742}$$

$$\ell_{246} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{14} \\ 0 & 1 & 1 & \eta^{2} \end{array}\right]_{981025} = \left[\begin{array}{cccc} 1 & 0 & 0 & 29 \\ 0 & 1 & 1 & 4 \end{array}\right]_{981025} = \mathbf{Pl}(6,14,9,14,1,0)_{17804}$$

$$\ell_{247} = \begin{bmatrix} 1 & 0 & 0 & \eta^{24} \\ 0 & 1 & 1 & \eta^{12} \end{bmatrix}_{1015169} = \begin{bmatrix} 1 & 0 & 0 & 30 \\ 0 & 1 & 1 & 14 \end{bmatrix}_{1015169} = \mathbf{Pl}(6,14,6,14,1,0)_{17711}$$

$$\ell_{248} = \begin{bmatrix} 1 & 0 & 0 & \eta^{9} \\ 0 & 1 & 1 & \eta^{28} \end{bmatrix}_{880129} = \begin{bmatrix} 1 & 0 & 0 & 26 \\ 0 & 1 & 1 & 22 \end{bmatrix}_{880129} = \mathbf{Pl}(6,14,8,14,1,0)_{17773}$$

$$\ell_{249} = \begin{bmatrix} 1 & 0 & 0 & \eta^{3} \\ 0 & 1 & 1 & \eta^{22} \end{bmatrix}_{271265} = \begin{bmatrix} 1 & 0 & 0 & 8 \\ 0 & 1 & 1 & 21 \end{bmatrix}_{271265} = \mathbf{Pl}(6,14,26,14,1,0)_{18331}$$

$$\ell_{250} = \begin{bmatrix} 1 & 0 & 0 & \eta^{5} \\ 0 & 1 & 1 & \eta^{24} \end{bmatrix}_{170081} = \begin{bmatrix} 1 & 0 & 0 & 5 \\ 0 & 1 & 1 & 30 \end{bmatrix}_{170081} = \mathbf{Pl}(6,14,20,14,1,0)_{18145}$$

$$\ell_{251} = \begin{bmatrix} 1 & 0 & 0 & \eta^{10} \\ 0 & 1 & 1 & \eta^{29} \end{bmatrix}_{575297} = \begin{bmatrix} 1 & 0 & 0 & 17 \\ 0 & 1 & 1 & 9 \end{bmatrix}_{575297} = \mathbf{Pl}(6,14,4,14,1,0)_{17649}$$

$$\ell_{252} = \begin{bmatrix} 1 & 0 & 0 & \eta^{6} \\ 0 & 1 & 1 & \eta^{25} \end{bmatrix}_{339041} = \begin{bmatrix} 1 & 0 & 0 & 10 \\ 0 & 1 & 1 & 25 \end{bmatrix}_{339041} = \mathbf{Pl}(6,14,10,14,1,0)_{17835}$$

$$\ell_{253} = \begin{bmatrix} 1 & 0 & 0 & \eta^{22} \\ 0 & 1 & 1 & \eta^{10} \end{bmatrix}_{710849} = \begin{bmatrix} 1 & 0 & 0 & 21 \\ 0 & 1 & 1 & 17 \end{bmatrix}_{710849} = \mathbf{Pl}(6,14,24,14,1,0)_{18269}$$

$$\ell_{254} = \begin{bmatrix} 1 & 0 & 0 & \eta^{15} \\ 0 & 1 & 1 & \eta^{3} \end{bmatrix}_{1048801} = \begin{bmatrix} 1 & 0 & 0 & 31 \\ 0 & 1 & 1 & 8 \end{bmatrix}_{1048801} = \mathbf{Pl}(6,14,22,14,1,0)_{18207}$$

$$\ell_{255} = \begin{bmatrix} 1 & 0 & 0 & \eta^{18} \\ 0 & 1 & 1 & \eta^{6} \end{bmatrix}_{101793} = \begin{bmatrix} 1 & 0 & 0 & 3 \\ 0 & 1 & 1 & 10 \end{bmatrix}_{101793} = \mathbf{Pl}(6,14,25,14,1,0)_{18300}$$

$$\ell_{256} = \begin{bmatrix} 1 & 0 & 0 & \eta^{17} \\ 0 & 1 & 1 & \eta^{5} \end{bmatrix}_{642817} = \begin{bmatrix} 1 & 0 & 0 & 19 \\ 0 & 1 & 1 & 5 \end{bmatrix}_{642817} = \mathbf{Pl}(6,14,23,14,1,0)_{18238}$$

$$\ell_{257} = \begin{bmatrix} 1 & 0 & 0 & \eta^{7} \\ 0 & 1 & 1 & \eta^{26} \end{bmatrix}_{677217} = \begin{bmatrix} 1 & 0 & 0 & 20 \\ 0 & 1 & 1 & 23 \end{bmatrix}_{677217} = \mathbf{Pl}(6,14,5,14,1,0)_{17680}$$

$$\ell_{258} = \begin{bmatrix} 1 & 0 & 0 & \eta^{16} \\ 0 & 1 & 1 & \eta^{4} \end{bmatrix}_{913761} = \begin{bmatrix} 1 & 0 & 0 & 27 \\ 0 & 1 & 1 & 16 \end{bmatrix}_{913761} = \mathbf{Pl}(6,14,11,14,1,0)_{17866}$$

$$\ell_{259} = \begin{bmatrix} 1 & \eta^{20} & \eta^{20} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{419628} = \begin{bmatrix} 1 & 12 & 12 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{419628} = \mathbf{Pl}(0,12,0,12,1,0)_{3841}$$

$$\ell_{260} = \begin{bmatrix} 1 & 0 & 0 & \eta^{12} \\ 0 & 1 & 1 & \eta^{23} \end{bmatrix}_{474017} = \begin{bmatrix} 1 & 0 & 0 & 14 \\ 0 & 1 & 1 & 15 \end{bmatrix}_{474017} = \mathbf{Pl}(7,12,13,12,1,0)_{16007}$$

$$\ell_{261} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & \eta^{11} \end{bmatrix}_{34049} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 7 \end{bmatrix}_{34049} = \mathbf{Pl}(7,12,12,12,1,0)_{15976}$$

$$\ell_{262} = \begin{bmatrix} 1 & 0 & 0 & \eta^{30} \\ 0 & 1 & 1 & \eta^{10} \end{bmatrix}_{609377} = \begin{bmatrix} 1 & 0 & 0 & 18 \\ 0 & 1 & 1 & 17 \end{bmatrix}_{609377} = \mathbf{Pl}(7,12,24,12,1,0)_{16348}$$

$$\ell_{263} = \begin{bmatrix} 1 & 0 & 0 & \eta^{13} \\ 0 & 1 & 1 & \eta^{24} \end{bmatrix}_{948033} = \begin{bmatrix} 1 & 0 & 0 & 28 \\ 0 & 1 & 1 & 30 \end{bmatrix}_{948033} = \mathbf{Pl}(7,12,20,12,1,0)_{16224}$$

$$\ell_{264} = \begin{bmatrix} 1 & 0 & 0 & \eta^{29} \\ 0 & 1 & 1 & \eta^{9} \end{bmatrix}_{305249} = \begin{bmatrix} 1 & 0 & 0 & 9 \\ 0 & 1 & 1 & 26 \end{bmatrix}_{305249} = \mathbf{Pl}(7,12,21,12,1,0)_{16255}$$

$$\ell_{265} = \begin{bmatrix} 1 & 0 & 0 & \eta^{26} \\ 0 & 1 & 1 & \eta^{6} \end{bmatrix}_{778273} = \begin{bmatrix} 1 & 0 & 0 & 23 \\ 0 & 1 & 1 & 10 \end{bmatrix}_{778273} = \mathbf{Pl}(7,12,25,12,1,0)_{16379}$$

$$\ell_{266} = \begin{bmatrix} 1 & 0 & 0 & \eta^{20} \\ 0 & 1 & 1 & 1 \end{bmatrix}_{405921} = \begin{bmatrix} 1 & 0 & 0 & 12 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{405921} = \mathbf{Pl}(7,12,1,12,1,0)_{15635}$$

$$\ell_{267} = \begin{bmatrix} 1 & 0 & 0 & \eta^{28} \\ 0 & 1 & 1 & \eta^{8} \end{bmatrix}_{744545} = \begin{bmatrix} 1 & 0 & 0 & 22 \\ 0 & 1 & 1 & 13 \end{bmatrix}_{744545} = \mathbf{Pl}(7,12,15,12,1,0)_{16069}$$

$$\ell_{268} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^2 \\ 0 & 1 & 1 & \eta^{13} \end{array}\right]_{136193} = \left[\begin{array}{cccc} 1 & 0 & 0 & 4 \\ 0 & 1 & 1 & 28 \end{array}\right]_{136193} = \mathbf{Pl}(7,12,3,12,1,0)_{15697}$$

$$\ell_{269} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{25} \\ 0 & 1 & 1 & \eta^{5} \end{array}\right]_{845761} = \left[\begin{array}{cccc} 1 & 0 & 0 & 25 \\ 0 & 1 & 1 & 5 \end{array}\right]_{845761} = \mathbf{Pl}(7,12,23,12,1,0)_{16317}$$

$$\ell_{270} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{4} \\ 0 & 1 & 1 & \eta^{15} \end{array}\right]_{542177} = \left[\begin{array}{cccc} 1 & 0 & 0 & 16 \\ 0 & 1 & 1 & 31 \end{array}\right]_{542177} = \mathbf{Pl}(7,12,27,12,1,0)_{16441}$$

$$\ell_{271} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{11} \\ 0 & 1 & 1 & \eta^{22} \end{array}\right]_{237441} = \left[\begin{array}{cccc} 1 & 0 & 0 & 7 \\ 0 & 1 & 1 & 21 \end{array}\right]_{237441} = \mathbf{Pl}(7,12,26,12,1,0)_{16410}$$

$$\ell_{272} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{23} \\ 0 & 1 & 1 & \eta^{3} \end{array}\right]_{507617} = \left[\begin{array}{cccc} 1 & 0 & 0 & 15 \\ 0 & 1 & 1 & 8 \end{array}\right]_{507617} = \mathbf{Pl}(7,12,22,12,1,0)_{16286}$$

$$\ell_{273} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{19} \\ 0 & 1 & 1 & \eta^{30} \end{array}\right]_{203521} = \left[\begin{array}{cccc} 1 & 0 & 0 & 6 \\ 0 & 1 & 1 & 18 \end{array}\right]_{203521} = \mathbf{Pl}(7,12,2,12,1,0)_{15666}$$

$$\ell_{274} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{8} \\ 0 & 1 & 1 & \eta^{19} \end{array}\right]_{439905} = \left[\begin{array}{cccc} 1 & 0 & 0 & 13 \\ 0 & 1 & 1 & 6 \end{array}\right]_{439905} = \mathbf{Pl}(7,12,14,12,1,0)_{16038}$$

$$\ell_{275} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{27} \\ 0 & 1 & 1 & \eta^{7} \end{array}\right]_{372705} = \left[\begin{array}{cccc} 1 & 0 & 0 & 11 \\ 0 & 1 & 1 & 20 \end{array}\right]_{372705} = \mathbf{Pl}(7,12,30,12,1,0)_{16534}$$

$$\ell_{276} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{21} \\ 0 & 1 & 1 & \eta \end{array}\right]_{811841} = \left[\begin{array}{cccc} 1 & 0 & 0 & 24 \\ 0 & 1 & 1 & 2 \end{array}\right]_{811841} = \mathbf{Pl}(7,12,18,12,1,0)_{16162}$$

$$\ell_{277} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta \\ 0 & 1 & 1 & \eta^{12} \end{array}\right]_{68097} = \left[\begin{array}{cccc} 1 & 0 & 0 & 2 \\ 0 & 1 & 1 & 14 \end{array}\right]_{68097} = \mathbf{Pl}(7,12,6,12,1,0)_{15790}$$

$$\ell_{278} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{14} \\ 0 & 1 & 1 & \eta^{25} \end{array}\right]_{981697} = \left[\begin{array}{cccc} 1 & 0 & 0 & 29 \\ 0 & 1 & 1 & 25 \end{array}\right]_{981697} = \mathbf{Pl}(7,12,10,12,1,0)_{15914}$$

$$\ell_{279} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{24} \\ 0 & 1 & 1 & \eta^{4} \end{array}\right]_{1015233} = \left[\begin{array}{cccc} 1 & 0 & 0 & 30 \\ 0 & 1 & 1 & 16 \end{array}\right]_{1015233} = \mathbf{Pl}(7,12,11,12,1,0)_{15945}$$

$$\ell_{280} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{9} \\ 0 & 1 & 1 & \eta^{20} \end{array}\right]_{879809} = \left[\begin{array}{cccc} 1 & 0 & 0 & 26 \\ 0 & 1 & 1 & 12 \end{array}\right]_{879809} = \mathbf{Pl}(7,12,7,12,1,0)_{15821}$$

$$\ell_{281} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{3} \\ 0 & 1 & 1 & \eta^{14} \end{array}\right]_{271521} = \left[\begin{array}{cccc} 1 & 0 & 0 & 8 \\ 0 & 1 & 1 & 29 \end{array}\right]_{271521} = \mathbf{Pl}(7,12,19,12,1,0)_{16193}$$

$$\ell_{282} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{5} \\ 0 & 1 & 1 & \eta^{16} \end{array}\right]_{169985} = \left[\begin{array}{cccc} 1 & 0 & 0 & 5 \\ 0 & 1 & 1 & 27 \end{array}\right]_{169985} = \mathbf{Pl}(7,12,31,12,1,0)_{16565}$$

$$\ell_{283} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{10} \\ 0 & 1 & 1 & \eta^{21} \end{array}\right]_{575777} = \left[\begin{array}{cccc} 1 & 0 & 0 & 17 \\ 0 & 1 & 1 & 24 \end{array}\right]_{575777} = \mathbf{Pl}(7,12,17,12,1,0)_{16131}$$

$$\ell_{284} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{6} \\ 0 & 1 & 1 & \eta^{17} \end{array}\right]_{338849} = \left[\begin{array}{cccc} 1 & 0 & 0 & 10 \\ 0 & 1 & 1 & 19 \end{array}\right]_{338849} = \mathbf{Pl}(7,12,29,12,1,0)_{16503}$$

$$\ell_{285} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{22} \\ 0 & 1 & 1 & \eta^{2} \end{array}\right]_{710433} = \left[\begin{array}{cccc} 1 & 0 & 0 & 21 \\ 0 & 1 & 1 & 4 \end{array}\right]_{710433} = \mathbf{Pl}(7,12,9,12,1,0)_{15883}$$

$$\ell_{286} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{15} \\ 0 & 1 & 1 & \eta^{26} \end{array}\right]_{1049281} = \left[\begin{array}{cccc} 1 & 0 & 0 & 31 \\ 0 & 1 & 1 & 23 \end{array}\right]_{1049281} = \mathbf{Pl}(7,12,5,12,1,0)_{15759}$$

$$\ell_{287} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{18} \\ 0 & 1 & 1 & \eta^{29} \end{array}\right]_{101761} = \left[\begin{array}{cccc} 1 & 0 & 0 & 3 \\ 0 & 1 & 1 & 9 \end{array}\right]_{101761} = \mathbf{Pl}(7,12,4,12,1,0)_{15728}$$

$$\ell_{288} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{17} \\ 0 & 1 & 1 & \eta^{28} \end{array}\right]_{643361} = \left[\begin{array}{cccc} 1 & 0 & 0 & 19 \\ 0 & 1 & 1 & 22 \end{array}\right]_{643361} = \mathbf{Pl}(7,12,8,12,1,0)_{15852}$$

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$$\ell_{289} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^7 \\ 0 & 1 & 1 & \eta^{18} \end{array}\right]_{676577} = \left[\begin{array}{cccc} 1 & 0 & 0 & 20 \\ 0 & 1 & 1 & 3 \end{array}\right]_{676577} = \mathbf{Pl}(7,12,28,12,1,0)_{16472}$$

$$\ell_{290} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{16} \\ 0 & 1 & 1 & \eta^{27} \end{array}\right]_{913601} = \left[\begin{array}{cccc} 1 & 0 & 0 & 27 \\ 0 & 1 & 1 & 11 \end{array}\right]_{913601} = \mathbf{Pl}(7,12,16,12,1,0)_{16100}$$

$$\ell_{291} = \left[\begin{array}{cccc} 1 & \eta^{28} & \eta^{28} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{768438} = \left[\begin{array}{cccc} 1 & 22 & 22 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{768438} = \mathbf{Pl}(0,22,0,22,1,0)_{4481}$$

$$\ell_{292} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^2 \\ 0 & 1 & 1 & \eta^5 \end{array}\right]_{135457} = \left[\begin{array}{cccc} 1 & 0 & 0 & 4 \\ 0 & 1 & 1 & 5 \end{array}\right]_{135457} = \mathbf{Pl}(8,22,23,22,1,0)_{25928}$$

$$\ell_{293} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & \eta^3 \end{array}\right]_{34081} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 8 \end{array}\right]_{34081} = \mathbf{Pl}(8,22,22,22,1,0)_{25897}$$

$$\ell_{294} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{30} \\ 0 & 1 & 1 & \eta^2 \end{array}\right]_{608961} = \left[\begin{array}{cccc} 1 & 0 & 0 & 18 \\ 0 & 1 & 1 & 4 \end{array}\right]_{608961} = \mathbf{Pl}(8,22,9,22,1,0)_{25494}$$

$$\ell_{295} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{13} \\ 0 & 1 & 1 & \eta^{16} \end{array}\right]_{947937} = \left[\begin{array}{cccc} 1 & 0 & 0 & 28 \\ 0 & 1 & 1 & 27 \end{array}\right]_{947937} = \mathbf{Pl}(8,22,31,22,1,0)_{26176}$$

$$\ell_{296} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{29} \\ 0 & 1 & 1 & \eta \end{array}\right]_{304481} = \left[\begin{array}{cccc} 1 & 0 & 0 & 9 \\ 0 & 1 & 1 & 2 \end{array}\right]_{304481} = \mathbf{Pl}(8,22,18,22,1,0)_{25773}$$

$$\ell_{297} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{26} \\ 0 & 1 & 1 & \eta^{29} \end{array}\right]_{778241} = \left[\begin{array}{cccc} 1 & 0 & 0 & 23 \\ 0 & 1 & 1 & 9 \end{array}\right]_{778241} = \mathbf{Pl}(8,22,4,22,1,0)_{25339}$$

$$\ell_{298} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{12} \\ 0 & 1 & 1 & \eta^{15} \end{array}\right]_{474529} = \left[\begin{array}{cccc} 1 & 0 & 0 & 14 \\ 0 & 1 & 1 & 31 \end{array}\right]_{474529} = \mathbf{Pl}(8,22,27,22,1,0)_{26052}$$

$$\ell_{299} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{20} \\ 0 & 1 & 1 & \eta^{23} \end{array}\right]_{406369} = \left[\begin{array}{cccc} 1 & 0 & 0 & 12 \\ 0 & 1 & 1 & 15 \end{array}\right]_{406369} = \mathbf{Pl}(8,22,13,22,1,0)_{25618}$$

$$\ell_{300} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{28} \\ 0 & 1 & 1 & 1 \end{array}\right]_{744161} = \left[\begin{array}{cccc} 1 & 0 & 0 & 22 \\ 0 & 1 & 1 & 1 \end{array}\right]_{744161} = \mathbf{Pl}(8,22,1,22,1,0)_{25246}$$

$$\ell_{301} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{25} \\ 0 & 1 & 1 & \eta^{28} \end{array}\right]_{846305} = \left[\begin{array}{cccc} 1 & 0 & 0 & 25 \\ 0 & 1 & 1 & 22 \end{array}\right]_{846305} = \mathbf{Pl}(8,22,8,22,1,0)_{25463}$$

$$\ell_{302} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^4 \\ 0 & 1 & 1 & \eta^7 \end{array}\right]_{541825} = \left[\begin{array}{cccc} 1 & 0 & 0 & 16 \\ 0 & 1 & 1 & 20 \end{array}\right]_{541825} = \mathbf{Pl}(8,22,30,22,1,0)_{26145}$$

$$\ell_{303} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{11} \\ 0 & 1 & 1 & \eta^{14} \end{array}\right]_{237697} = \left[\begin{array}{cccc} 1 & 0 & 0 & 7 \\ 0 & 1 & 1 & 29 \end{array}\right]_{237697} = \mathbf{Pl}(8,22,19,22,1,0)_{25804}$$

$$\ell_{304} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{23} \\ 0 & 1 & 1 & \eta^{26} \end{array}\right]_{508097} = \left[\begin{array}{cccc} 1 & 0 & 0 & 15 \\ 0 & 1 & 1 & 23 \end{array}\right]_{508097} = \mathbf{Pl}(8,22,5,22,1,0)_{25370}$$

$$\ell_{305} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{19} \\ 0 & 1 & 1 & \eta^{22} \end{array}\right]_{203617} = \left[\begin{array}{cccc} 1 & 0 & 0 & 6 \\ 0 & 1 & 1 & 21 \end{array}\right]_{203617} = \mathbf{Pl}(8,22,26,22,1,0)_{26021}$$

$$\ell_{306} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^8 \\ 0 & 1 & 1 & \eta^{11} \end{array}\right]_{439937} = \left[\begin{array}{cccc} 1 & 0 & 0 & 13 \\ 0 & 1 & 1 & 7 \end{array}\right]_{439937} = \mathbf{Pl}(8,22,12,22,1,0)_{25587}$$

$$\ell_{307} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{27} \\ 0 & 1 & 1 & \eta^{30} \end{array}\right]_{372641} = \left[\begin{array}{cccc} 1 & 0 & 0 & 11 \\ 0 & 1 & 1 & 18 \end{array}\right]_{372641} = \mathbf{Pl}(8,22,2,22,1,0)_{25277}$$

$$\ell_{308} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{21} \\ 0 & 1 & 1 & \eta^{24} \end{array}\right]_{812737} = \left[\begin{array}{cccc} 1 & 0 & 0 & 24 \\ 0 & 1 & 1 & 30 \end{array}\right]_{812737} = \mathbf{Pl}(8,22,20,22,1,0)_{25835}$$

$$\ell_{309} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta \\ 0 & 1 & 1 & \eta^4 \end{array}\right]_{68161} = \left[\begin{array}{cccc} 1 & 0 & 0 & 2 \\ 0 & 1 & 1 & 16 \end{array}\right]_{68161} = \mathbf{Pl}(8,22,11,22,1,0)_{25556}$$

$$\ell_{310} = \begin{bmatrix} 1 & 0 & 0 & \eta^{14} \\ 0 & 1 & 1 & \eta^{17} \end{bmatrix}_{981505} = \begin{bmatrix} 1 & 0 & 0 & 29 \\ 0 & 1 & 1 & 19 \end{bmatrix}_{981505} = \mathbf{Pl}(8, 22, 29, 22, 1, 0)_{26114}$$

$$\ell_{311} = \begin{bmatrix} 1 & 0 & 0 & \eta^{24} \\ 0 & 1 & 1 & \eta^{27} \end{bmatrix}_{1015073} = \begin{bmatrix} 1 & 0 & 0 & 30 \\ 0 & 1 & 1 & 11 \end{bmatrix}_{1015073} = \mathbf{Pl}(8, 22, 16, 22, 1, 0)_{25711}$$

$$\ell_{312} = \begin{bmatrix} 1 & 0 & 0 & \eta^{9} \\ 0 & 1 & 1 & \eta^{12} \end{bmatrix}_{879873} = \begin{bmatrix} 1 & 0 & 0 & 26 \\ 0 & 1 & 1 & 14 \end{bmatrix}_{879873} = \mathbf{Pl}(8, 22, 6, 22, 1, 0)_{25401}$$

$$\ell_{313} = \begin{bmatrix} 1 & 0 & 0 & \eta^{3} \\ 0 & 1 & 1 & \eta^{6} \end{bmatrix}_{270913} = \begin{bmatrix} 1 & 0 & 0 & 8 \\ 0 & 1 & 1 & 10 \end{bmatrix}_{270913} = \mathbf{Pl}(8, 22, 25, 22, 1, 0)_{25990}$$

$$\ell_{314} = \begin{bmatrix} 1 & 0 & 0 & \eta^{5} \\ 0 & 1 & 1 & \eta^{8} \end{bmatrix}_{169537} = \begin{bmatrix} 1 & 0 & 0 & 5 \\ 0 & 1 & 1 & 13 \end{bmatrix}_{169537} = \mathbf{Pl}(8, 22, 15, 22, 1, 0)_{25680}$$

$$\ell_{315} = \begin{bmatrix} 1 & 0 & 0 & \eta^{10} \\ 0 & 1 & 1 & \eta^{13} \end{bmatrix}_{575905} = \begin{bmatrix} 1 & 0 & 0 & 17 \\ 0 & 1 & 1 & 28 \end{bmatrix}_{575905} = \mathbf{Pl}(8, 22, 3, 22, 1, 0)_{25308}$$

$$\ell_{316} = \begin{bmatrix} 1 & 0 & 0 & \eta^{6} \\ 0 & 1 & 1 & \eta^{9} \end{bmatrix}_{339073} = \begin{bmatrix} 1 & 0 & 0 & 10 \\ 0 & 1 & 1 & 26 \end{bmatrix}_{339073} = \mathbf{Pl}(8, 22, 21, 22, 1, 0)_{25866}$$

$$\ell_{317} = \begin{bmatrix} 1 & 0 & 0 & \eta^{22} \\ 0 & 1 & 1 & \eta^{25} \end{bmatrix}_{711105} = \begin{bmatrix} 1 & 0 & 0 & 21 \\ 0 & 1 & 1 & 25 \end{bmatrix}_{711105} = \mathbf{Pl}(8, 22, 10, 22, 1, 0)_{25525}$$

$$\ell_{318} = \begin{bmatrix} 1 & 0 & 0 & \eta^{15} \\ 0 & 1 & 1 & \eta^{18} \end{bmatrix}_{1048641} = \begin{bmatrix} 1 & 0 & 0 & 31 \\ 0 & 1 & 1 & 3 \end{bmatrix}_{1048641} = \mathbf{Pl}(8, 22, 28, 22, 1, 0)_{26083}$$

$$\ell_{319} = \begin{bmatrix} 1 & 0 & 0 & \eta^{18} \\ 0 & 1 & 1 & \eta^{21} \end{bmatrix}_{102241} = \begin{bmatrix} 1 & 0 & 0 & 3 \\ 0 & 1 & 1 & 24 \end{bmatrix}_{102241} = \mathbf{Pl}(8, 22, 17, 22, 1, 0)_{25742}$$

$$\ell_{320} = \begin{bmatrix} 1 & 0 & 0 & \eta^{17} \\ 0 & 1 & 1 & \eta^{20} \end{bmatrix}_{643041} = \begin{bmatrix} 1 & 0 & 0 & 19 \\ 0 & 1 & 1 & 12 \end{bmatrix}_{643041} = \mathbf{Pl}(8, 22, 7, 22, 1, 0)_{25432}$$

$$\ell_{321} = \begin{bmatrix} 1 & 0 & 0 & \eta^{7} \\ 0 & 1 & 1 & \eta^{10} \end{bmatrix}_{677025} = \begin{bmatrix} 1 & 0 & 0 & 20 \\ 0 & 1 & 1 & 17 \end{bmatrix}_{677025} = \mathbf{Pl}(8, 22, 24, 22, 1, 0)_{25959}$$

$$\ell_{322} = \begin{bmatrix} 1 & 0 & 0 & \eta^{16} \\ 0 & 1 & 1 & \eta^{19} \end{bmatrix}_{913441} = \begin{bmatrix} 1 & 0 & 0 & 27 \\ 0 & 1 & 1 & 6 \end{bmatrix}_{913441} = \mathbf{Pl}(8, 22, 14, 22, 1, 0)_{25649}$$

$$\ell_{323} = \begin{bmatrix} 1 & \eta^{2} & \eta^{2} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{140580} = \begin{bmatrix} 1 & 4 & 4 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{140580} = \mathbf{Pl}(0, 4, 0, 4, 1, 0)_{3329}$$

$$\ell_{324} = \begin{bmatrix} 1 & 0 & 0 & \eta^{28} \\ 0 & 1 & 1 & \eta^{26} \end{bmatrix}_{744865} = \begin{bmatrix} 1 & 0 & 0 & 22 \\ 0 & 1 & 1 & 23 \end{bmatrix}_{744865} = \mathbf{Pl}(9, 4, 5, 4, 1, 0)_{8073}$$

$$\ell_{325} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & \eta^{29} \end{bmatrix}_{34113} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 9 \end{bmatrix}_{34113} = \mathbf{Pl}(9, 4, 4, 4, 1, 0)_{8042}$$

$$\ell_{326} = \begin{bmatrix} 1 & 0 & 0 & \eta^{30} \\ 0 & 1 & 1 & \eta^{28} \end{bmatrix}_{609537} = \begin{bmatrix} 1 & 0 & 0 & 18 \\ 0 & 1 & 1 & 22 \end{bmatrix}_{609537} = \mathbf{Pl}(9, 4, 8, 4, 1, 0)_{8166}$$

$$\ell_{327} = \begin{bmatrix} 1 & 0 & 0 & \eta^{13} \\ 0 & 1 & 1 & \eta^{11} \end{bmatrix}_{947297} = \begin{bmatrix} 1 & 0 & 0 & 28 \\ 0 & 1 & 1 & 7 \end{bmatrix}_{947297} = \mathbf{Pl}(9, 4, 12, 4, 1, 0)_{8290}$$

$$\ell_{328} = \begin{bmatrix} 1 & 0 & 0 & \eta^{29} \\ 0 & 1 & 1 & \eta^{27} \end{bmatrix}_{304769} = \begin{bmatrix} 1 & 0 & 0 & 9 \\ 0 & 1 & 1 & 11 \end{bmatrix}_{304769} = \mathbf{Pl}(9, 4, 16, 4, 1, 0)_{8414}$$

$$\ell_{329} = \begin{bmatrix} 1 & 0 & 0 & \eta^{26} \\ 0 & 1 & 1 & \eta^{24} \end{bmatrix}_{778913} = \begin{bmatrix} 1 & 0 & 0 & 23 \\ 0 & 1 & 1 & 30 \end{bmatrix}_{778913} = \mathbf{Pl}(9, 4, 20, 4, 1, 0)_{8538}$$

$$\ell_{330} = \begin{bmatrix} 1 & 0 & 0 & \eta^{12} \\ 0 & 1 & 1 & \eta^{10} \end{bmatrix}_{474081} = \begin{bmatrix} 1 & 0 & 0 & 14 \\ 0 & 1 & 1 & 17 \end{bmatrix}_{474081} = \mathbf{Pl}(9, 4, 24, 4, 1, 0)_{8662}$$

$$\ell_{331} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{20} \\ 0 & 1 & 1 & \eta^{18} \end{array}\right]_{405985} = \left[\begin{array}{cccc} 1 & 0 & 0 & 12 \\ 0 & 1 & 1 & 3 \end{array}\right]_{405985} = \mathbf{Pl}(9,4,28,4,1,0)_{8786}$$

$$\ell_{332} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{2} \\ 0 & 1 & 1 & 1 \end{array}\right]_{135329} = \left[\begin{array}{cccc} 1 & 0 & 0 & 4 \\ 0 & 1 & 1 & 1 \end{array}\right]_{135329} = \mathbf{Pl}(9,4,1,4,1,0)_{7949}$$

$$\ell_{333} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{25} \\ 0 & 1 & 1 & \eta^{23} \end{array}\right]_{846081} = \left[\begin{array}{cccc} 1 & 0 & 0 & 25 \\ 0 & 1 & 1 & 15 \end{array}\right]_{846081} = \mathbf{Pl}(9,4,13,4,1,0)_{8321}$$

$$\ell_{334} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{4} \\ 0 & 1 & 1 & \eta^{2} \end{array}\right]_{541313} = \left[\begin{array}{cccc} 1 & 0 & 0 & 16 \\ 0 & 1 & 1 & 4 \end{array}\right]_{541313} = \mathbf{Pl}(9,4,9,4,1,0)_{8197}$$

$$\ell_{335} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{11} \\ 0 & 1 & 1 & \eta^{9} \end{array}\right]_{237601} = \left[\begin{array}{cccc} 1 & 0 & 0 & 7 \\ 0 & 1 & 1 & 26 \end{array}\right]_{237601} = \mathbf{Pl}(9,4,21,4,1,0)_{8569}$$

$$\ell_{336} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{23} \\ 0 & 1 & 1 & \eta^{21} \end{array}\right]_{508129} = \left[\begin{array}{cccc} 1 & 0 & 0 & 15 \\ 0 & 1 & 1 & 24 \end{array}\right]_{508129} = \mathbf{Pl}(9,4,17,4,1,0)_{8445}$$

$$\ell_{337} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{19} \\ 0 & 1 & 1 & \eta^{17} \end{array}\right]_{203553} = \left[\begin{array}{cccc} 1 & 0 & 0 & 6 \\ 0 & 1 & 1 & 19 \end{array}\right]_{203553} = \mathbf{Pl}(9,4,29,4,1,0)_{8817}$$

$$\ell_{338} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{8} \\ 0 & 1 & 1 & \eta^{6} \end{array}\right]_{440033} = \left[\begin{array}{cccc} 1 & 0 & 0 & 13 \\ 0 & 1 & 1 & 10 \end{array}\right]_{440033} = \mathbf{Pl}(9,4,25,4,1,0)_{8693}$$

$$\ell_{339} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{27} \\ 0 & 1 & 1 & \eta^{25} \end{array}\right]_{372865} = \left[\begin{array}{cccc} 1 & 0 & 0 & 11 \\ 0 & 1 & 1 & 25 \end{array}\right]_{372865} = \mathbf{Pl}(9,4,10,4,1,0)_{8228}$$

$$\ell_{340} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{21} \\ 0 & 1 & 1 & \eta^{19} \end{array}\right]_{811969} = \left[\begin{array}{cccc} 1 & 0 & 0 & 24 \\ 0 & 1 & 1 & 6 \end{array}\right]_{811969} = \mathbf{Pl}(9,4,14,4,1,0)_{8352}$$

$$\ell_{341} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta \\ 0 & 1 & 1 & \eta^{30} \end{array}\right]_{68225} = \left[\begin{array}{cccc} 1 & 0 & 0 & 2 \\ 0 & 1 & 1 & 18 \end{array}\right]_{68225} = \mathbf{Pl}(9,4,2,4,1,0)_{7980}$$

$$\ell_{342} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{14} \\ 0 & 1 & 1 & \eta^{12} \end{array}\right]_{981345} = \left[\begin{array}{cccc} 1 & 0 & 0 & 29 \\ 0 & 1 & 1 & 14 \end{array}\right]_{981345} = \mathbf{Pl}(9,4,6,4,1,0)_{8104}$$

$$\ell_{343} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{24} \\ 0 & 1 & 1 & \eta^{22} \end{array}\right]_{1015393} = \left[\begin{array}{cccc} 1 & 0 & 0 & 30 \\ 0 & 1 & 1 & 21 \end{array}\right]_{1015393} = \mathbf{Pl}(9,4,26,4,1,0)_{8724}$$

$$\ell_{344} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{9} \\ 0 & 1 & 1 & \eta^{7} \end{array}\right]_{880065} = \left[\begin{array}{cccc} 1 & 0 & 0 & 26 \\ 0 & 1 & 1 & 20 \end{array}\right]_{880065} = \mathbf{Pl}(9,4,30,4,1,0)_{8848}$$

$$\ell_{345} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{3} \\ 0 & 1 & 1 & \eta \end{array}\right]_{270657} = \left[\begin{array}{cccc} 1 & 0 & 0 & 8 \\ 0 & 1 & 1 & 2 \end{array}\right]_{270657} = \mathbf{Pl}(9,4,18,4,1,0)_{8476}$$

$$\ell_{346} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{5} \\ 0 & 1 & 1 & \eta^{3} \end{array}\right]_{169377} = \left[\begin{array}{cccc} 1 & 0 & 0 & 5 \\ 0 & 1 & 1 & 8 \end{array}\right]_{169377} = \mathbf{Pl}(9,4,22,4,1,0)_{8600}$$

$$\ell_{347} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{10} \\ 0 & 1 & 1 & \eta^{8} \end{array}\right]_{575425} = \left[\begin{array}{cccc} 1 & 0 & 0 & 17 \\ 0 & 1 & 1 & 13 \end{array}\right]_{575425} = \mathbf{Pl}(9,4,15,4,1,0)_{8383}$$

$$\ell_{348} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{6} \\ 0 & 1 & 1 & \eta^{4} \end{array}\right]_{338753} = \left[\begin{array}{cccc} 1 & 0 & 0 & 10 \\ 0 & 1 & 1 & 16 \end{array}\right]_{338753} = \mathbf{Pl}(9,4,11,4,1,0)_{8259}$$

$$\ell_{349} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{22} \\ 0 & 1 & 1 & \eta^{20} \end{array}\right]_{710689} = \left[\begin{array}{cccc} 1 & 0 & 0 & 21 \\ 0 & 1 & 1 & 12 \end{array}\right]_{710689} = \mathbf{Pl}(9,4,7,4,1,0)_{8135}$$

$$\ell_{350} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{15} \\ 0 & 1 & 1 & \eta^{13} \end{array}\right]_{1049441} = \left[\begin{array}{cccc} 1 & 0 & 0 & 31 \\ 0 & 1 & 1 & 28 \end{array}\right]_{1049441} = \mathbf{Pl}(9,4,3,4,1,0)_{8011}$$

$$\ell_{351} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{18} \\ 0 & 1 & 1 & \eta^{16} \end{array}\right]_{102337} = \left[\begin{array}{cccc} 1 & 0 & 0 & 3 \\ 0 & 1 & 1 & 27 \end{array}\right]_{102337} = \mathbf{Pl}(9,4,31,4,1,0)_{8879}$$

$$\ell_{352} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{17} \\ 0 & 1 & 1 & \eta^{15} \end{array}\right]_{643649} = \left[\begin{array}{cccc} 1 & 0 & 0 & 19 \\ 0 & 1 & 1 & 31 \end{array}\right]_{643649} = \mathbf{Pl}(9,4,27,4,1,0)_{8755}$$

$$\ell_{353} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{7} \\ 0 & 1 & 1 & \eta^{5} \end{array}\right]_{676641} = \left[\begin{array}{cccc} 1 & 0 & 0 & 20 \\ 0 & 1 & 1 & 5 \end{array}\right]_{676641} = \mathbf{Pl}(9,4,23,4,1,0)_{8631}$$

$$\ell_{354} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{16} \\ 0 & 1 & 1 & \eta^{14} \end{array}\right]_{914177} = \left[\begin{array}{cccc} 1 & 0 & 0 & 27 \\ 0 & 1 & 1 & 29 \end{array}\right]_{914177} = \mathbf{Pl}(9,4,19,4,1,0)_{8507}$$

$$\ell_{355} = \left[\begin{array}{cccc} 1 & \eta^{25} & \eta^{25} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{873081} = \left[\begin{array}{cccc} 1 & 25 & 25 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{873081} = \mathbf{Pl}(0,25,0,25,1,0)_{4673}$$

$$\ell_{356} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{4} \\ 0 & 1 & 1 & \eta^{10} \end{array}\right]_{541729} = \left[\begin{array}{cccc} 1 & 0 & 0 & 16 \\ 0 & 1 & 1 & 17 \end{array}\right]_{541729} = \mathbf{Pl}(10,25,24,25,1,0)_{28844}$$

$$\ell_{357} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & \eta^{6} \end{array}\right]_{34145} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 10 \end{array}\right]_{34145} = \mathbf{Pl}(10,25,25,25,1,0)_{28875}$$

$$\ell_{358} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{30} \\ 0 & 1 & 1 & \eta^{5} \end{array}\right]_{608993} = \left[\begin{array}{cccc} 1 & 0 & 0 & 18 \\ 0 & 1 & 1 & 5 \end{array}\right]_{608993} = \mathbf{Pl}(10,25,23,25,1,0)_{28813}$$

$$\ell_{359} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{13} \\ 0 & 1 & 1 & \eta^{19} \end{array}\right]_{947265} = \left[\begin{array}{cccc} 1 & 0 & 0 & 28 \\ 0 & 1 & 1 & 6 \end{array}\right]_{947265} = \mathbf{Pl}(10,25,14,25,1,0)_{28534}$$

$$\ell_{360} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{29} \\ 0 & 1 & 1 & \eta^{4} \end{array}\right]_{304929} = \left[\begin{array}{cccc} 1 & 0 & 0 & 9 \\ 0 & 1 & 1 & 16 \end{array}\right]_{304929} = \mathbf{Pl}(10,25,11,25,1,0)_{28441}$$

$$\ell_{361} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{26} \\ 0 & 1 & 1 & \eta \end{array}\right]_{778017} = \left[\begin{array}{cccc} 1 & 0 & 0 & 23 \\ 0 & 1 & 1 & 2 \end{array}\right]_{778017} = \mathbf{Pl}(10,25,18,25,1,0)_{28658}$$

$$\ell_{362} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{12} \\ 0 & 1 & 1 & \eta^{18} \end{array}\right]_{473633} = \left[\begin{array}{cccc} 1 & 0 & 0 & 14 \\ 0 & 1 & 1 & 3 \end{array}\right]_{473633} = \mathbf{Pl}(10,25,28,25,1,0)_{28968}$$

$$\ell_{363} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{20} \\ 0 & 1 & 1 & \eta^{26} \end{array}\right]_{406625} = \left[\begin{array}{cccc} 1 & 0 & 0 & 12 \\ 0 & 1 & 1 & 23 \end{array}\right]_{406625} = \mathbf{Pl}(10,25,5,25,1,0)_{28255}$$

$$\ell_{364} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{28} \\ 0 & 1 & 1 & \eta^{3} \end{array}\right]_{744385} = \left[\begin{array}{cccc} 1 & 0 & 0 & 22 \\ 0 & 1 & 1 & 8 \end{array}\right]_{744385} = \mathbf{Pl}(10,25,22,25,1,0)_{28782}$$

$$\ell_{365} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{2} \\ 0 & 1 & 1 & \eta^{8} \end{array}\right]_{135713} = \left[\begin{array}{cccc} 1 & 0 & 0 & 4 \\ 0 & 1 & 1 & 13 \end{array}\right]_{135713} = \mathbf{Pl}(10,25,15,25,1,0)_{28565}$$

$$\ell_{366} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{25} \\ 0 & 1 & 1 & 1 \end{array}\right]_{845633} = \left[\begin{array}{cccc} 1 & 0 & 0 & 25 \\ 0 & 1 & 1 & 1 \end{array}\right]_{845633} = \mathbf{Pl}(10,25,1,25,1,0)_{28131}$$

$$\ell_{367} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{11} \\ 0 & 1 & 1 & \eta^{17} \end{array}\right]_{237377} = \left[\begin{array}{cccc} 1 & 0 & 0 & 7 \\ 0 & 1 & 1 & 19 \end{array}\right]_{237377} = \mathbf{Pl}(10,25,29,25,1,0)_{28999}$$

$$\ell_{368} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{23} \\ 0 & 1 & 1 & \eta^{29} \end{array}\right]_{507649} = \left[\begin{array}{cccc} 1 & 0 & 0 & 15 \\ 0 & 1 & 1 & 9 \end{array}\right]_{507649} = \mathbf{Pl}(10,25,4,25,1,0)_{28224}$$

$$\ell_{369} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{19} \\ 0 & 1 & 1 & \eta^{25} \end{array}\right]_{203745} = \left[\begin{array}{cccc} 1 & 0 & 0 & 6 \\ 0 & 1 & 1 & 25 \end{array}\right]_{203745} = \mathbf{Pl}(10,25,10,25,1,0)_{28410}$$

$$\ell_{370} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{8} \\ 0 & 1 & 1 & \eta^{14} \end{array}\right]_{440641} = \left[\begin{array}{cccc} 1 & 0 & 0 & 13 \\ 0 & 1 & 1 & 29 \end{array}\right]_{440641} = \mathbf{Pl}(10,25,19,25,1,0)_{28689}$$

$$\ell_{371} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{27} \\ 0 & 1 & 1 & \eta^{2} \end{array}\right]_{372193} = \left[\begin{array}{cccc} 1 & 0 & 0 & 11 \\ 0 & 1 & 1 & 4 \end{array}\right]_{372193} = \mathbf{Pl}(10,25,9,25,1,0)_{28379}$$

$$\ell_{372} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{21} \\ 0 & 1 & 1 & \eta^{27} \end{array}\right]_{812129} = \left[\begin{array}{cccc} 1 & 0 & 0 & 24 \\ 0 & 1 & 1 & 11 \end{array}\right]_{812129} = \mathbf{Pl}(10,25,16,25,1,0)_{28596}$$

$$\ell_{373} = \begin{bmatrix} 1 & 0 & 0 & \eta \\ 0 & 1 & 1 & \eta^7 \end{bmatrix}_{68289} = \begin{bmatrix} 1 & 0 & 0 & 2 \\ 0 & 1 & 1 & 20 \end{bmatrix}_{68289} = \mathbf{Pl}(10, 25, 30, 25, 1, 0)_{29030}$$

$$\ell_{374} = \begin{bmatrix} 1 & 0 & 0 & \eta^{14} \\ 0 & 1 & 1 & \eta^{20} \end{bmatrix}_{981281} = \begin{bmatrix} 1 & 0 & 0 & 29 \\ 0 & 1 & 1 & 12 \end{bmatrix}_{981281} = \mathbf{Pl}(10, 25, 7, 25, 1, 0)_{28317}$$

$$\ell_{375} = \begin{bmatrix} 1 & 0 & 0 & \eta^{24} \\ 0 & 1 & 1 & \eta^{30} \end{bmatrix}_{1015297} = \begin{bmatrix} 1 & 0 & 0 & 30 \\ 0 & 1 & 1 & 18 \end{bmatrix}_{1015297} = \mathbf{Pl}(10, 25, 2, 25, 1, 0)_{28162}$$

$$\ell_{376} = \begin{bmatrix} 1 & 0 & 0 & \eta^9 \\ 0 & 1 & 1 & \eta^{15} \end{bmatrix}_{880417} = \begin{bmatrix} 1 & 0 & 0 & 26 \\ 0 & 1 & 1 & 31 \end{bmatrix}_{880417} = \mathbf{Pl}(10, 25, 27, 25, 1, 0)_{28937}$$

$$\ell_{377} = \begin{bmatrix} 1 & 0 & 0 & \eta^3 \\ 0 & 1 & 1 & \eta^9 \end{bmatrix}_{271425} = \begin{bmatrix} 1 & 0 & 0 & 8 \\ 0 & 1 & 1 & 26 \end{bmatrix}_{271425} = \mathbf{Pl}(10, 25, 21, 25, 1, 0)_{28751}$$

$$\ell_{378} = \begin{bmatrix} 1 & 0 & 0 & \eta^5 \\ 0 & 1 & 1 & \eta^{11} \end{bmatrix}_{169345} = \begin{bmatrix} 1 & 0 & 0 & 5 \\ 0 & 1 & 1 & 7 \end{bmatrix}_{169345} = \mathbf{Pl}(10, 25, 12, 25, 1, 0)_{28472}$$

$$\ell_{379} = \begin{bmatrix} 1 & 0 & 0 & \eta^{10} \\ 0 & 1 & 1 & \eta^{16} \end{bmatrix}_{575873} = \begin{bmatrix} 1 & 0 & 0 & 17 \\ 0 & 1 & 1 & 27 \end{bmatrix}_{575873} = \mathbf{Pl}(10, 25, 31, 25, 1, 0)_{29061}$$

$$\ell_{380} = \begin{bmatrix} 1 & 0 & 0 & \eta^6 \\ 0 & 1 & 1 & \eta^{12} \end{bmatrix}_{338689} = \begin{bmatrix} 1 & 0 & 0 & 10 \\ 0 & 1 & 1 & 14 \end{bmatrix}_{338689} = \mathbf{Pl}(10, 25, 6, 25, 1, 0)_{28286}$$

$$\ell_{381} = \begin{bmatrix} 1 & 0 & 0 & \eta^{22} \\ 0 & 1 & 1 & \eta^{28} \end{bmatrix}_{711009} = \begin{bmatrix} 1 & 0 & 0 & 21 \\ 0 & 1 & 1 & 22 \end{bmatrix}_{711009} = \mathbf{Pl}(10, 25, 8, 25, 1, 0)_{28348}$$

$$\ell_{382} = \begin{bmatrix} 1 & 0 & 0 & \eta^{15} \\ 0 & 1 & 1 & \eta^{21} \end{bmatrix}_{1049313} = \begin{bmatrix} 1 & 0 & 0 & 31 \\ 0 & 1 & 1 & 24 \end{bmatrix}_{1049313} = \mathbf{Pl}(10, 25, 17, 25, 1, 0)_{28627}$$

$$\ell_{383} = \begin{bmatrix} 1 & 0 & 0 & \eta^{18} \\ 0 & 1 & 1 & \eta^{24} \end{bmatrix}_{102433} = \begin{bmatrix} 1 & 0 & 0 & 3 \\ 0 & 1 & 1 & 30 \end{bmatrix}_{102433} = \mathbf{Pl}(10, 25, 20, 25, 1, 0)_{28720}$$

$$\ell_{384} = \begin{bmatrix} 1 & 0 & 0 & \eta^{17} \\ 0 & 1 & 1 & \eta^{23} \end{bmatrix}_{643137} = \begin{bmatrix} 1 & 0 & 0 & 19 \\ 0 & 1 & 1 & 15 \end{bmatrix}_{643137} = \mathbf{Pl}(10, 25, 13, 25, 1, 0)_{28503}$$

$$\ell_{385} = \begin{bmatrix} 1 & 0 & 0 & \eta^7 \\ 0 & 1 & 1 & \eta^{13} \end{bmatrix}_{677377} = \begin{bmatrix} 1 & 0 & 0 & 20 \\ 0 & 1 & 1 & 28 \end{bmatrix}_{677377} = \mathbf{Pl}(10, 25, 3, 25, 1, 0)_{28193}$$

$$\ell_{386} = \begin{bmatrix} 1 & 0 & 0 & \eta^{16} \\ 0 & 1 & 1 & \eta^{22} \end{bmatrix}_{913921} = \begin{bmatrix} 1 & 0 & 0 & 27 \\ 0 & 1 & 1 & 21 \end{bmatrix}_{913921} = \mathbf{Pl}(10, 25, 26, 25, 1, 0)_{28906}$$

$$\ell_{387} = \begin{bmatrix} 1 & \eta^4 & \eta^4 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{559152} = \begin{bmatrix} 1 & 16 & 16 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{559152} = \mathbf{Pl}(0, 16, 0, 16, 1, 0)_{4097}$$

$$\ell_{388} = \begin{bmatrix} 1 & 0 & 0 & \eta^{25} \\ 0 & 1 & 1 & \eta^{21} \end{bmatrix}_{846369} = \begin{bmatrix} 1 & 0 & 0 & 25 \\ 0 & 1 & 1 & 24 \end{bmatrix}_{846369} = \mathbf{Pl}(11, 16, 17, 16, 1, 0)_{19979}$$

$$\ell_{389} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & \eta^{27} \end{bmatrix}_{34177} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 11 \end{bmatrix}_{34177} = \mathbf{Pl}(11, 16, 16, 16, 1, 0)_{19948}$$

$$\ell_{390} = \begin{bmatrix} 1 & 0 & 0 & \eta^{30} \\ 0 & 1 & 1 & \eta^{26} \end{bmatrix}_{609569} = \begin{bmatrix} 1 & 0 & 0 & 18 \\ 0 & 1 & 1 & 23 \end{bmatrix}_{609569} = \mathbf{Pl}(11, 16, 5, 16, 1, 0)_{19607}$$

$$\ell_{391} = \begin{bmatrix} 1 & 0 & 0 & \eta^{13} \\ 0 & 1 & 1 & \eta^9 \end{bmatrix}_{947905} = \begin{bmatrix} 1 & 0 & 0 & 28 \\ 0 & 1 & 1 & 26 \end{bmatrix}_{947905} = \mathbf{Pl}(11, 16, 21, 16, 1, 0)_{20103}$$

$$\ell_{392} = \begin{bmatrix} 1 & 0 & 0 & \eta^{29} \\ 0 & 1 & 1 & \eta^{25} \end{bmatrix}_{305217} = \begin{bmatrix} 1 & 0 & 0 & 9 \\ 0 & 1 & 1 & 25 \end{bmatrix}_{305217} = \mathbf{Pl}(11, 16, 10, 16, 1, 0)_{19762}$$

$$\ell_{393} = \begin{bmatrix} 1 & 0 & 0 & \eta^{26} \\ 0 & 1 & 1 & \eta^{22} \end{bmatrix}_{778625} = \begin{bmatrix} 1 & 0 & 0 & 23 \\ 0 & 1 & 1 & 21 \end{bmatrix}_{778625} = \mathbf{Pl}(11, 16, 26, 16, 1, 0)_{20258}$$

$$\ell_{394} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{12} \\ 0 & 1 & 1 & \eta^{8} \end{array}\right]_{473953} = \left[\begin{array}{cccc} 1 & 0 & 0 & 14 \\ 0 & 1 & 1 & 13 \end{array}\right]_{473953} = \mathbf{Pl}(11,16,15,16,1,0)_{19917}$$

$$\ell_{395} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{20} \\ 0 & 1 & 1 & \eta^{16} \end{array}\right]_{406753} = \left[\begin{array}{cccc} 1 & 0 & 0 & 12 \\ 0 & 1 & 1 & 27 \end{array}\right]_{406753} = \mathbf{Pl}(11,16,31,16,1,0)_{20413}$$

$$\ell_{396} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{28} \\ 0 & 1 & 1 & \eta^{24} \end{array}\right]_{745089} = \left[\begin{array}{cccc} 1 & 0 & 0 & 22 \\ 0 & 1 & 1 & 30 \end{array}\right]_{745089} = \mathbf{Pl}(11,16,20,16,1,0)_{20072}$$

$$\ell_{397} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{2} \\ 0 & 1 & 1 & \eta^{29} \end{array}\right]_{135585} = \left[\begin{array}{cccc} 1 & 0 & 0 & 4 \\ 0 & 1 & 1 & 9 \end{array}\right]_{135585} = \mathbf{Pl}(11,16,4,16,1,0)_{19576}$$

$$\ell_{398} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{4} \\ 0 & 1 & 1 & 1 \end{array}\right]_{541217} = \left[\begin{array}{cccc} 1 & 0 & 0 & 16 \\ 0 & 1 & 1 & 1 \end{array}\right]_{541217} = \mathbf{Pl}(11,16,1,16,1,0)_{19483}$$

$$\ell_{399} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{11} \\ 0 & 1 & 1 & \eta^{7} \end{array}\right]_{237409} = \left[\begin{array}{cccc} 1 & 0 & 0 & 7 \\ 0 & 1 & 1 & 20 \end{array}\right]_{237409} = \mathbf{Pl}(11,16,30,16,1,0)_{20382}$$

$$\ell_{400} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{23} \\ 0 & 1 & 1 & \eta^{19} \end{array}\right]_{507553} = \left[\begin{array}{cccc} 1 & 0 & 0 & 15 \\ 0 & 1 & 1 & 6 \end{array}\right]_{507553} = \mathbf{Pl}(11,16,14,16,1,0)_{19886}$$

$$\ell_{401} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{19} \\ 0 & 1 & 1 & \eta^{15} \end{array}\right]_{203937} = \left[\begin{array}{cccc} 1 & 0 & 0 & 6 \\ 0 & 1 & 1 & 31 \end{array}\right]_{203937} = \mathbf{Pl}(11,16,27,16,1,0)_{20289}$$

$$\ell_{402} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{8} \\ 0 & 1 & 1 & \eta^{4} \end{array}\right]_{440225} = \left[\begin{array}{cccc} 1 & 0 & 0 & 13 \\ 0 & 1 & 1 & 16 \end{array}\right]_{440225} = \mathbf{Pl}(11,16,11,16,1,0)_{19793}$$

$$\ell_{403} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{27} \\ 0 & 1 & 1 & \eta^{23} \end{array}\right]_{372545} = \left[\begin{array}{cccc} 1 & 0 & 0 & 11 \\ 0 & 1 & 1 & 15 \end{array}\right]_{372545} = \mathbf{Pl}(11,16,13,16,1,0)_{19855}$$

$$\ell_{404} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{21} \\ 0 & 1 & 1 & \eta^{17} \end{array}\right]_{812385} = \left[\begin{array}{cccc} 1 & 0 & 0 & 24 \\ 0 & 1 & 1 & 19 \end{array}\right]_{812385} = \mathbf{Pl}(11,16,29,16,1,0)_{20351}$$

$$\ell_{405} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta \\ 0 & 1 & 1 & \eta^{28} \end{array}\right]_{68353} = \left[\begin{array}{cccc} 1 & 0 & 0 & 2 \\ 0 & 1 & 1 & 22 \end{array}\right]_{68353} = \mathbf{Pl}(11,16,8,16,1,0)_{19700}$$

$$\ell_{406} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{14} \\ 0 & 1 & 1 & \eta^{10} \end{array}\right]_{981441} = \left[\begin{array}{cccc} 1 & 0 & 0 & 29 \\ 0 & 1 & 1 & 17 \end{array}\right]_{981441} = \mathbf{Pl}(11,16,24,16,1,0)_{20196}$$

$$\ell_{407} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{24} \\ 0 & 1 & 1 & \eta^{20} \end{array}\right]_{1015105} = \left[\begin{array}{cccc} 1 & 0 & 0 & 30 \\ 0 & 1 & 1 & 12 \end{array}\right]_{1015105} = \mathbf{Pl}(11,16,7,16,1,0)_{19669}$$

$$\ell_{408} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{9} \\ 0 & 1 & 1 & \eta^{5} \end{array}\right]_{879585} = \left[\begin{array}{cccc} 1 & 0 & 0 & 26 \\ 0 & 1 & 1 & 5 \end{array}\right]_{879585} = \mathbf{Pl}(11,16,23,16,1,0)_{20165}$$

$$\ell_{409} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{3} \\ 0 & 1 & 1 & \eta^{30} \end{array}\right]_{271169} = \left[\begin{array}{cccc} 1 & 0 & 0 & 8 \\ 0 & 1 & 1 & 18 \end{array}\right]_{271169} = \mathbf{Pl}(11,16,2,16,1,0)_{19514}$$

$$\ell_{410} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{5} \\ 0 & 1 & 1 & \eta \end{array}\right]_{169185} = \left[\begin{array}{cccc} 1 & 0 & 0 & 5 \\ 0 & 1 & 1 & 2 \end{array}\right]_{169185} = \mathbf{Pl}(11,16,18,16,1,0)_{20010}$$

$$\ell_{411} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{10} \\ 0 & 1 & 1 & \eta^{6} \end{array}\right]_{575329} = \left[\begin{array}{cccc} 1 & 0 & 0 & 17 \\ 0 & 1 & 1 & 10 \end{array}\right]_{575329} = \mathbf{Pl}(11,16,25,16,1,0)_{20227}$$

$$\ell_{412} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{6} \\ 0 & 1 & 1 & \eta^{2} \end{array}\right]_{338369} = \left[\begin{array}{cccc} 1 & 0 & 0 & 10 \\ 0 & 1 & 1 & 4 \end{array}\right]_{338369} = \mathbf{Pl}(11,16,9,16,1,0)_{19731}$$

$$\ell_{413} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{22} \\ 0 & 1 & 1 & \eta^{18} \end{array}\right]_{710401} = \left[\begin{array}{cccc} 1 & 0 & 0 & 21 \\ 0 & 1 & 1 & 3 \end{array}\right]_{710401} = \mathbf{Pl}(11,16,28,16,1,0)_{20320}$$

$$\ell_{414} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{15} \\ 0 & 1 & 1 & \eta^{11} \end{array}\right]_{1048769} = \left[\begin{array}{cccc} 1 & 0 & 0 & 31 \\ 0 & 1 & 1 & 7 \end{array}\right]_{1048769} = \mathbf{Pl}(11,16,12,16,1,0)_{19824}$$

$$\ell_{415} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{18} \\ 0 & 1 & 1 & \eta^{14} \end{array}\right]_{102401} = \left[\begin{array}{cccc} 1 & 0 & 0 & 3 \\ 0 & 1 & 1 & 29 \end{array}\right]_{102401} = \mathbf{Pl}(11,16,19,16,1,0)_{20041}$$

$$\ell_{416} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{17} \\ 0 & 1 & 1 & \eta^{13} \end{array}\right]_{643553} = \left[\begin{array}{cccc} 1 & 0 & 0 & 19 \\ 0 & 1 & 1 & 28 \end{array}\right]_{643553} = \mathbf{Pl}(11,16,3,16,1,0)_{19545}$$

$$\ell_{417} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{7} \\ 0 & 1 & 1 & \eta^{3} \end{array}\right]_{676737} = \left[\begin{array}{cccc} 1 & 0 & 0 & 20 \\ 0 & 1 & 1 & 8 \end{array}\right]_{676737} = \mathbf{Pl}(11,16,22,16,1,0)_{20134}$$

$$\ell_{418} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{16} \\ 0 & 1 & 1 & \eta^{12} \end{array}\right]_{913697} = \left[\begin{array}{cccc} 1 & 0 & 0 & 27 \\ 0 & 1 & 1 & 14 \end{array}\right]_{913697} = \mathbf{Pl}(11,16,6,16,1,0)_{19638}$$

$$\ell_{419} = \left[\begin{array}{cccc} 1 & \eta^{11} & \eta^{11} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{245223} = \left[\begin{array}{cccc} 1 & 7 & 7 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{245223} = \mathbf{Pl}(0,7,0,7,1,0)_{3521}$$

$$\ell_{420} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{23} \\ 0 & 1 & 1 & \eta^{12} \end{array}\right]_{507809} = \left[\begin{array}{cccc} 1 & 0 & 0 & 15 \\ 0 & 1 & 1 & 14 \end{array}\right]_{507809} = \mathbf{Pl}(12,7,6,7,1,0)_{10990}$$

$$\ell_{421} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & \eta^{20} \end{array}\right]_{34209} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 12 \end{array}\right]_{34209} = \mathbf{Pl}(12,7,7,7,1,0)_{11021}$$

$$\ell_{422} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{30} \\ 0 & 1 & 1 & \eta^{19} \end{array}\right]_{609025} = \left[\begin{array}{cccc} 1 & 0 & 0 & 18 \\ 0 & 1 & 1 & 6 \end{array}\right]_{609025} = \mathbf{Pl}(12,7,14,7,1,0)_{11238}$$

$$\ell_{423} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{13} \\ 0 & 1 & 1 & \eta^{2} \end{array}\right]_{947201} = \left[\begin{array}{cccc} 1 & 0 & 0 & 28 \\ 0 & 1 & 1 & 4 \end{array}\right]_{947201} = \mathbf{Pl}(12,7,9,7,1,0)_{11083}$$

$$\ell_{424} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{29} \\ 0 & 1 & 1 & \eta^{18} \end{array}\right]_{304513} = \left[\begin{array}{cccc} 1 & 0 & 0 & 9 \\ 0 & 1 & 1 & 3 \end{array}\right]_{304513} = \mathbf{Pl}(12,7,28,7,1,0)_{11672}$$

$$\ell_{425} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{26} \\ 0 & 1 & 1 & \eta^{15} \end{array}\right]_{778945} = \left[\begin{array}{cccc} 1 & 0 & 0 & 23 \\ 0 & 1 & 1 & 31 \end{array}\right]_{778945} = \mathbf{Pl}(12,7,27,7,1,0)_{11641}$$

$$\ell_{426} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{12} \\ 0 & 1 & 1 & \eta \end{array}\right]_{473601} = \left[\begin{array}{cccc} 1 & 0 & 0 & 14 \\ 0 & 1 & 1 & 2 \end{array}\right]_{473601} = \mathbf{Pl}(12,7,18,7,1,0)_{11362}$$

$$\ell_{427} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{20} \\ 0 & 1 & 1 & \eta^{9} \end{array}\right]_{406721} = \left[\begin{array}{cccc} 1 & 0 & 0 & 12 \\ 0 & 1 & 1 & 26 \end{array}\right]_{406721} = \mathbf{Pl}(12,7,21,7,1,0)_{11455}$$

$$\ell_{428} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{28} \\ 0 & 1 & 1 & \eta^{17} \end{array}\right]_{744737} = \left[\begin{array}{cccc} 1 & 0 & 0 & 22 \\ 0 & 1 & 1 & 19 \end{array}\right]_{744737} = \mathbf{Pl}(12,7,29,7,1,0)_{11703}$$

$$\ell_{429} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{2} \\ 0 & 1 & 1 & \eta^{22} \end{array}\right]_{135969} = \left[\begin{array}{cccc} 1 & 0 & 0 & 4 \\ 0 & 1 & 1 & 21 \end{array}\right]_{135969} = \mathbf{Pl}(12,7,26,7,1,0)_{11610}$$

$$\ell_{430} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{25} \\ 0 & 1 & 1 & \eta^{14} \end{array}\right]_{846529} = \left[\begin{array}{cccc} 1 & 0 & 0 & 25 \\ 0 & 1 & 1 & 29 \end{array}\right]_{846529} = \mathbf{Pl}(12,7,19,7,1,0)_{11393}$$

$$\ell_{431} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{4} \\ 0 & 1 & 1 & \eta^{24} \end{array}\right]_{542145} = \left[\begin{array}{cccc} 1 & 0 & 0 & 16 \\ 0 & 1 & 1 & 30 \end{array}\right]_{542145} = \mathbf{Pl}(12,7,20,7,1,0)_{11424}$$

$$\ell_{432} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{11} \\ 0 & 1 & 1 & 1 \end{array}\right]_{236801} = \left[\begin{array}{cccc} 1 & 0 & 0 & 7 \\ 0 & 1 & 1 & 1 \end{array}\right]_{236801} = \mathbf{Pl}(12,7,1,7,1,0)_{10835}$$

$$\ell_{433} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{19} \\ 0 & 1 & 1 & \eta^{8} \end{array}\right]_{203361} = \left[\begin{array}{cccc} 1 & 0 & 0 & 6 \\ 0 & 1 & 1 & 13 \end{array}\right]_{203361} = \mathbf{Pl}(12,7,15,7,1,0)_{11269}$$

$$\ell_{434} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{8} \\ 0 & 1 & 1 & \eta^{28} \end{array}\right]_{440417} = \left[\begin{array}{cccc} 1 & 0 & 0 & 13 \\ 0 & 1 & 1 & 22 \end{array}\right]_{440417} = \mathbf{Pl}(12,7,8,7,1,0)_{11052}$$

$$\ell_{435} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{27} \\ 0 & 1 & 1 & \eta^{16} \end{array}\right]_{372929} = \left[\begin{array}{cccc} 1 & 0 & 0 & 11 \\ 0 & 1 & 1 & 27 \end{array}\right]_{372929} = \mathbf{Pl}(12,7,31,7,1,0)_{11765}$$

$$\ell_{436} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{21} \\ 0 & 1 & 1 & \eta^{10} \end{array}\right]_{812321} = \left[\begin{array}{cccc} 1 & 0 & 0 & 24 \\ 0 & 1 & 1 & 17 \end{array}\right]_{812321} = \mathbf{Pl}(12,7,24,7,1,0)_{11548}$$

$$\ell_{437} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta \\ 0 & 1 & 1 & \eta^{21} \end{array}\right]_{68417} = \left[\begin{array}{cccc} 1 & 0 & 0 & 2 \\ 0 & 1 & 1 & 24 \end{array}\right]_{68417} = \mathbf{Pl}(12,7,17,7,1,0)_{11331}$$

$$\ell_{438} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{14} \\ 0 & 1 & 1 & \eta^{3} \end{array}\right]_{981153} = \left[\begin{array}{cccc} 1 & 0 & 0 & 29 \\ 0 & 1 & 1 & 8 \end{array}\right]_{981153} = \mathbf{Pl}(12,7,22,7,1,0)_{11486}$$

$$\ell_{439} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{24} \\ 0 & 1 & 1 & \eta^{13} \end{array}\right]_{1015617} = \left[\begin{array}{cccc} 1 & 0 & 0 & 30 \\ 0 & 1 & 1 & 28 \end{array}\right]_{1015617} = \mathbf{Pl}(12,7,3,7,1,0)_{10897}$$

$$\ell_{440} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{9} \\ 0 & 1 & 1 & \eta^{29} \end{array}\right]_{879713} = \left[\begin{array}{cccc} 1 & 0 & 0 & 26 \\ 0 & 1 & 1 & 9 \end{array}\right]_{879713} = \mathbf{Pl}(12,7,4,7,1,0)_{10928}$$

$$\ell_{441} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{3} \\ 0 & 1 & 1 & \eta^{23} \end{array}\right]_{271073} = \left[\begin{array}{cccc} 1 & 0 & 0 & 8 \\ 0 & 1 & 1 & 15 \end{array}\right]_{271073} = \mathbf{Pl}(12,7,13,7,1,0)_{11207}$$

$$\ell_{442} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{5} \\ 0 & 1 & 1 & \eta^{25} \end{array}\right]_{169921} = \left[\begin{array}{cccc} 1 & 0 & 0 & 5 \\ 0 & 1 & 1 & 25 \end{array}\right]_{169921} = \mathbf{Pl}(12,7,10,7,1,0)_{11114}$$

$$\ell_{443} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{10} \\ 0 & 1 & 1 & \eta^{30} \end{array}\right]_{575585} = \left[\begin{array}{cccc} 1 & 0 & 0 & 17 \\ 0 & 1 & 1 & 18 \end{array}\right]_{575585} = \mathbf{Pl}(12,7,2,7,1,0)_{10866}$$

$$\ell_{444} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{6} \\ 0 & 1 & 1 & \eta^{26} \end{array}\right]_{338977} = \left[\begin{array}{cccc} 1 & 0 & 0 & 10 \\ 0 & 1 & 1 & 23 \end{array}\right]_{338977} = \mathbf{Pl}(12,7,5,7,1,0)_{10959}$$

$$\ell_{445} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{22} \\ 0 & 1 & 1 & \eta^{11} \end{array}\right]_{710529} = \left[\begin{array}{cccc} 1 & 0 & 0 & 21 \\ 0 & 1 & 1 & 7 \end{array}\right]_{710529} = \mathbf{Pl}(12,7,12,7,1,0)_{11176}$$

$$\ell_{446} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{15} \\ 0 & 1 & 1 & \eta^{4} \end{array}\right]_{1049057} = \left[\begin{array}{cccc} 1 & 0 & 0 & 31 \\ 0 & 1 & 1 & 16 \end{array}\right]_{1049057} = \mathbf{Pl}(12,7,11,7,1,0)_{11145}$$

$$\ell_{447} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{18} \\ 0 & 1 & 1 & \eta^{7} \end{array}\right]_{102113} = \left[\begin{array}{cccc} 1 & 0 & 0 & 3 \\ 0 & 1 & 1 & 20 \end{array}\right]_{102113} = \mathbf{Pl}(12,7,30,7,1,0)_{11734}$$

$$\ell_{448} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{17} \\ 0 & 1 & 1 & \eta^{6} \end{array}\right]_{642977} = \left[\begin{array}{cccc} 1 & 0 & 0 & 19 \\ 0 & 1 & 1 & 10 \end{array}\right]_{642977} = \mathbf{Pl}(12,7,25,7,1,0)_{11579}$$

$$\ell_{449} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{7} \\ 0 & 1 & 1 & \eta^{27} \end{array}\right]_{676833} = \left[\begin{array}{cccc} 1 & 0 & 0 & 20 \\ 0 & 1 & 1 & 11 \end{array}\right]_{676833} = \mathbf{Pl}(12,7,16,7,1,0)_{11300}$$

$$\ell_{450} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{16} \\ 0 & 1 & 1 & \eta^{5} \end{array}\right]_{913409} = \left[\begin{array}{cccc} 1 & 0 & 0 & 27 \\ 0 & 1 & 1 & 5 \end{array}\right]_{913409} = \mathbf{Pl}(12,7,23,7,1,0)_{11517}$$

$$\ell_{451} = \left[\begin{array}{cccc} 1 & \eta^{23} & \eta^{23} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{524271} = \left[\begin{array}{cccc} 1 & 15 & 15 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{524271} = \mathbf{Pl}(0,15,0,15,1,0)_{4033}$$

$$\ell_{452} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{11} \\ 0 & 1 & 1 & \eta^{19} \end{array}\right]_{236961} = \left[\begin{array}{cccc} 1 & 0 & 0 & 7 \\ 0 & 1 & 1 & 6 \end{array}\right]_{236961} = \mathbf{Pl}(13,15,14,15,1,0)_{18927}$$

$$\ell_{453} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & \eta^{8} \end{array}\right]_{34241} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 13 \end{array}\right]_{34241} = \mathbf{Pl}(13,15,15,15,1,0)_{18958}$$

$$\ell_{454} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{30} \\ 0 & 1 & 1 & \eta^{7} \end{array}\right]_{609473} = \left[\begin{array}{cccc} 1 & 0 & 0 & 18 \\ 0 & 1 & 1 & 20 \end{array}\right]_{609473} = \mathbf{Pl}(13,15,30,15,1,0)_{19423}$$

$$\ell_{455} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{13} \\ 0 & 1 & 1 & \eta^{21} \end{array}\right]_{947841} = \left[\begin{array}{cccc} 1 & 0 & 0 & 28 \\ 0 & 1 & 1 & 24 \end{array}\right]_{947841} = \mathbf{Pl}(13,15,17,15,1,0)_{19020}$$

$$\ell_{456} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{29} \\ 0 & 1 & 1 & \eta^{6} \end{array}\right]_{304737} = \left[\begin{array}{cccc} 1 & 0 & 0 & 9 \\ 0 & 1 & 1 & 10 \end{array}\right]_{304737} = \mathbf{Pl}(13,15,25,15,1,0)_{19268}$$

$$\ell_{457} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{26} \\ 0 & 1 & 1 & \eta^{3} \end{array} \right]_{778209} = \left[\begin{array}{cccc} 1 & 0 & 0 & 23 \\ 0 & 1 & 1 & 8 \end{array} \right]_{778209} = \mathbf{Pl}(13, 15, 22, 15, 1, 0)_{19175}$$

$$\ell_{458} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{12} \\ 0 & 1 & 1 & \eta^{20} \end{array} \right]_{473921} = \left[\begin{array}{cccc} 1 & 0 & 0 & 14 \\ 0 & 1 & 1 & 12 \end{array} \right]_{473921} = \mathbf{Pl}(13, 15, 7, 15, 1, 0)_{18710}$$

$$\ell_{459} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{20} \\ 0 & 1 & 1 & \eta^{28} \end{array} \right]_{406593} = \left[\begin{array}{cccc} 1 & 0 & 0 & 12 \\ 0 & 1 & 1 & 22 \end{array} \right]_{406593} = \mathbf{Pl}(13, 15, 8, 15, 1, 0)_{18741}$$

$$\ell_{460} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{28} \\ 0 & 1 & 1 & \eta^{5} \end{array} \right]_{744289} = \left[\begin{array}{cccc} 1 & 0 & 0 & 22 \\ 0 & 1 & 1 & 5 \end{array} \right]_{744289} = \mathbf{Pl}(13, 15, 23, 15, 1, 0)_{19206}$$

$$\ell_{461} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{2} \\ 0 & 1 & 1 & \eta^{10} \end{array} \right]_{135841} = \left[\begin{array}{cccc} 1 & 0 & 0 & 4 \\ 0 & 1 & 1 & 17 \end{array} \right]_{135841} = \mathbf{Pl}(13, 15, 24, 15, 1, 0)_{19237}$$

$$\ell_{462} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{25} \\ 0 & 1 & 1 & \eta^{2} \end{array} \right]_{845729} = \left[\begin{array}{cccc} 1 & 0 & 0 & 25 \\ 0 & 1 & 1 & 4 \end{array} \right]_{845729} = \mathbf{Pl}(13, 15, 9, 15, 1, 0)_{18772}$$

$$\ell_{463} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{4} \\ 0 & 1 & 1 & \eta^{12} \end{array} \right]_{541633} = \left[\begin{array}{cccc} 1 & 0 & 0 & 16 \\ 0 & 1 & 1 & 14 \end{array} \right]_{541633} = \mathbf{Pl}(13, 15, 6, 15, 1, 0)_{18679}$$

$$\ell_{464} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{23} \\ 0 & 1 & 1 & 1 \end{array} \right]_{507393} = \left[\begin{array}{cccc} 1 & 0 & 0 & 15 \\ 0 & 1 & 1 & 1 \end{array} \right]_{507393} = \mathbf{Pl}(13, 15, 1, 15, 1, 0)_{18524}$$

$$\ell_{465} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{19} \\ 0 & 1 & 1 & \eta^{27} \end{array} \right]_{203297} = \left[\begin{array}{cccc} 1 & 0 & 0 & 6 \\ 0 & 1 & 1 & 11 \end{array} \right]_{203297} = \mathbf{Pl}(13, 15, 16, 15, 1, 0)_{18989}$$

$$\ell_{466} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{8} \\ 0 & 1 & 1 & \eta^{16} \end{array} \right]_{440577} = \left[\begin{array}{cccc} 1 & 0 & 0 & 13 \\ 0 & 1 & 1 & 27 \end{array} \right]_{440577} = \mathbf{Pl}(13, 15, 31, 15, 1, 0)_{19454}$$

$$\ell_{467} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{27} \\ 0 & 1 & 1 & \eta^{4} \end{array} \right]_{372577} = \left[\begin{array}{cccc} 1 & 0 & 0 & 11 \\ 0 & 1 & 1 & 16 \end{array} \right]_{372577} = \mathbf{Pl}(13, 15, 11, 15, 1, 0)_{18834}$$

$$\ell_{468} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{21} \\ 0 & 1 & 1 & \eta^{29} \end{array} \right]_{812065} = \left[\begin{array}{cccc} 1 & 0 & 0 & 24 \\ 0 & 1 & 1 & 9 \end{array} \right]_{812065} = \mathbf{Pl}(13, 15, 4, 15, 1, 0)_{18617}$$

$$\ell_{469} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta \\ 0 & 1 & 1 & \eta^{9} \end{array} \right]_{68481} = \left[\begin{array}{cccc} 1 & 0 & 0 & 2 \\ 0 & 1 & 1 & 26 \end{array} \right]_{68481} = \mathbf{Pl}(13, 15, 21, 15, 1, 0)_{19144}$$

$$\ell_{470} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{14} \\ 0 & 1 & 1 & \eta^{22} \end{array} \right]_{981569} = \left[\begin{array}{cccc} 1 & 0 & 0 & 29 \\ 0 & 1 & 1 & 21 \end{array} \right]_{981569} = \mathbf{Pl}(13, 15, 26, 15, 1, 0)_{19299}$$

$$\ell_{471} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{24} \\ 0 & 1 & 1 & \eta \end{array} \right]_{1014785} = \left[\begin{array}{cccc} 1 & 0 & 0 & 30 \\ 0 & 1 & 1 & 2 \end{array} \right]_{1014785} = \mathbf{Pl}(13, 15, 18, 15, 1, 0)_{19051}$$

$$\ell_{472} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{9} \\ 0 & 1 & 1 & \eta^{17} \end{array} \right]_{880033} = \left[\begin{array}{cccc} 1 & 0 & 0 & 26 \\ 0 & 1 & 1 & 19 \end{array} \right]_{880033} = \mathbf{Pl}(13, 15, 29, 15, 1, 0)_{19392}$$

$$\ell_{473} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{3} \\ 0 & 1 & 1 & \eta^{11} \end{array} \right]_{270817} = \left[\begin{array}{cccc} 1 & 0 & 0 & 8 \\ 0 & 1 & 1 & 7 \end{array} \right]_{270817} = \mathbf{Pl}(13, 15, 12, 15, 1, 0)_{18865}$$

$$\ell_{474} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{5} \\ 0 & 1 & 1 & \eta^{13} \end{array} \right]_{170017} = \left[\begin{array}{cccc} 1 & 0 & 0 & 5 \\ 0 & 1 & 1 & 28 \end{array} \right]_{170017} = \mathbf{Pl}(13, 15, 3, 15, 1, 0)_{18586}$$

$$\ell_{475} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{10} \\ 0 & 1 & 1 & \eta^{18} \end{array} \right]_{575105} = \left[\begin{array}{cccc} 1 & 0 & 0 & 17 \\ 0 & 1 & 1 & 3 \end{array} \right]_{575105} = \mathbf{Pl}(13, 15, 28, 15, 1, 0)_{19361}$$

$$\ell_{476} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{6} \\ 0 & 1 & 1 & \eta^{14} \end{array} \right]_{339169} = \left[\begin{array}{cccc} 1 & 0 & 0 & 10 \\ 0 & 1 & 1 & 29 \end{array} \right]_{339169} = \mathbf{Pl}(13, 15, 19, 15, 1, 0)_{19082}$$

$$\ell_{477} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{22} \\ 0 & 1 & 1 & \eta^{30} \end{array} \right]_{710881} = \left[\begin{array}{cccc} 1 & 0 & 0 & 21 \\ 0 & 1 & 1 & 18 \end{array} \right]_{710881} = \mathbf{Pl}(13, 15, 2, 15, 1, 0)_{18555}$$

$$\ell_{478} = \begin{bmatrix} 1 & 0 & 0 & \eta^{15} \\ 0 & 1 & 1 & \eta^{23} \end{bmatrix}_{1049025} = \begin{bmatrix} 1 & 0 & 0 & 31 \\ 0 & 1 & 1 & 15 \end{bmatrix}_{1049025} = \mathbf{Pl}(13,15,13,15,1,0)_{18896}$$

$$\ell_{479} = \begin{bmatrix} 1 & 0 & 0 & \eta^{18} \\ 0 & 1 & 1 & \eta^{26} \end{bmatrix}_{102209} = \begin{bmatrix} 1 & 0 & 0 & 3 \\ 0 & 1 & 1 & 23 \end{bmatrix}_{102209} = \mathbf{Pl}(13,15,5,15,1,0)_{18648}$$

$$\ell_{480} = \begin{bmatrix} 1 & 0 & 0 & \eta^{17} \\ 0 & 1 & 1 & \eta^{25} \end{bmatrix}_{643457} = \begin{bmatrix} 1 & 0 & 0 & 19 \\ 0 & 1 & 1 & 25 \end{bmatrix}_{643457} = \mathbf{Pl}(13,15,10,15,1,0)_{18803}$$

$$\ell_{481} = \begin{bmatrix} 1 & 0 & 0 & \eta^{7} \\ 0 & 1 & 1 & \eta^{15} \end{bmatrix}_{677473} = \begin{bmatrix} 1 & 0 & 0 & 20 \\ 0 & 1 & 1 & 31 \end{bmatrix}_{677473} = \mathbf{Pl}(13,15,27,15,1,0)_{19330}$$

$$\ell_{482} = \begin{bmatrix} 1 & 0 & 0 & \eta^{16} \\ 0 & 1 & 1 & \eta^{24} \end{bmatrix}_{914209} = \begin{bmatrix} 1 & 0 & 0 & 27 \\ 0 & 1 & 1 & 30 \end{bmatrix}_{914209} = \mathbf{Pl}(13,15,20,15,1,0)_{19113}$$

$$\ell_{483} = \begin{bmatrix} 1 & \eta^{19} & \eta^{19} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{210342} = \begin{bmatrix} 1 & 6 & 6 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{210342} = \mathbf{Pl}(0,6,0,6,1,0)_{3457}$$

$$\ell_{484} = \begin{bmatrix} 1 & 0 & 0 & \eta^{8} \\ 0 & 1 & 1 & \eta^{20} \end{bmatrix}_{440097} = \begin{bmatrix} 1 & 0 & 0 & 13 \\ 0 & 1 & 1 & 12 \end{bmatrix}_{440097} = \mathbf{Pl}(14,6,7,6,1,0)_{10062}$$

$$\ell_{485} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & \eta^{12} \end{bmatrix}_{34273} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 14 \end{bmatrix}_{34273} = \mathbf{Pl}(14,6,6,6,1,0)_{10031}$$

$$\ell_{486} = \begin{bmatrix} 1 & 0 & 0 & \eta^{30} \\ 0 & 1 & 1 & \eta^{11} \end{bmatrix}_{609057} = \begin{bmatrix} 1 & 0 & 0 & 18 \\ 0 & 1 & 1 & 7 \end{bmatrix}_{609057} = \mathbf{Pl}(14,6,12,6,1,0)_{10217}$$

$$\ell_{487} = \begin{bmatrix} 1 & 0 & 0 & \eta^{13} \\ 0 & 1 & 1 & \eta^{25} \end{bmatrix}_{947873} = \begin{bmatrix} 1 & 0 & 0 & 28 \\ 0 & 1 & 1 & 25 \end{bmatrix}_{947873} = \mathbf{Pl}(14,6,10,6,1,0)_{10155}$$

$$\ell_{488} = \begin{bmatrix} 1 & 0 & 0 & \eta^{29} \\ 0 & 1 & 1 & \eta^{10} \end{bmatrix}_{304961} = \begin{bmatrix} 1 & 0 & 0 & 9 \\ 0 & 1 & 1 & 17 \end{bmatrix}_{304961} = \mathbf{Pl}(14,6,24,6,1,0)_{10589}$$

$$\ell_{489} = \begin{bmatrix} 1 & 0 & 0 & \eta^{26} \\ 0 & 1 & 1 & \eta^{7} \end{bmatrix}_{778593} = \begin{bmatrix} 1 & 0 & 0 & 23 \\ 0 & 1 & 1 & 20 \end{bmatrix}_{778593} = \mathbf{Pl}(14,6,30,6,1,0)_{10775}$$

$$\ell_{490} = \begin{bmatrix} 1 & 0 & 0 & \eta^{12} \\ 0 & 1 & 1 & \eta^{24} \end{bmatrix}_{474497} = \begin{bmatrix} 1 & 0 & 0 & 14 \\ 0 & 1 & 1 & 30 \end{bmatrix}_{474497} = \mathbf{Pl}(14,6,20,6,1,0)_{10465}$$

$$\ell_{491} = \begin{bmatrix} 1 & 0 & 0 & \eta^{20} \\ 0 & 1 & 1 & \eta \end{bmatrix}_{405953} = \begin{bmatrix} 1 & 0 & 0 & 12 \\ 0 & 1 & 1 & 2 \end{bmatrix}_{405953} = \mathbf{Pl}(14,6,18,6,1,0)_{10403}$$

$$\ell_{492} = \begin{bmatrix} 1 & 0 & 0 & \eta^{28} \\ 0 & 1 & 1 & \eta^{9} \end{bmatrix}_{744961} = \begin{bmatrix} 1 & 0 & 0 & 22 \\ 0 & 1 & 1 & 26 \end{bmatrix}_{744961} = \mathbf{Pl}(14,6,21,6,1,0)_{10496}$$

$$\ell_{493} = \begin{bmatrix} 1 & 0 & 0 & \eta^{2} \\ 0 & 1 & 1 & \eta^{14} \end{bmatrix}_{136225} = \begin{bmatrix} 1 & 0 & 0 & 4 \\ 0 & 1 & 1 & 29 \end{bmatrix}_{136225} = \mathbf{Pl}(14,6,19,6,1,0)_{10434}$$

$$\ell_{494} = \begin{bmatrix} 1 & 0 & 0 & \eta^{25} \\ 0 & 1 & 1 & \eta^{6} \end{bmatrix}_{845921} = \begin{bmatrix} 1 & 0 & 0 & 25 \\ 0 & 1 & 1 & 10 \end{bmatrix}_{845921} = \mathbf{Pl}(14,6,25,6,1,0)_{10620}$$

$$\ell_{495} = \begin{bmatrix} 1 & 0 & 0 & \eta^{4} \\ 0 & 1 & 1 & \eta^{16} \end{bmatrix}_{542049} = \begin{bmatrix} 1 & 0 & 0 & 16 \\ 0 & 1 & 1 & 27 \end{bmatrix}_{542049} = \mathbf{Pl}(14,6,31,6,1,0)_{10806}$$

$$\ell_{496} = \begin{bmatrix} 1 & 0 & 0 & \eta^{11} \\ 0 & 1 & 1 & \eta^{23} \end{bmatrix}_{237249} = \begin{bmatrix} 1 & 0 & 0 & 7 \\ 0 & 1 & 1 & 15 \end{bmatrix}_{237249} = \mathbf{Pl}(14,6,13,6,1,0)_{10248}$$

$$\ell_{497} = \begin{bmatrix} 1 & 0 & 0 & \eta^{23} \\ 0 & 1 & 1 & \eta^{4} \end{bmatrix}_{507873} = \begin{bmatrix} 1 & 0 & 0 & 15 \\ 0 & 1 & 1 & 16 \end{bmatrix}_{507873} = \mathbf{Pl}(14,6,11,6,1,0)_{10186}$$

$$\ell_{498} = \begin{bmatrix} 1 & 0 & 0 & \eta^{19} \\ 0 & 1 & 1 & 1 \end{bmatrix}_{202977} = \begin{bmatrix} 1 & 0 & 0 & 6 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{202977} = \mathbf{Pl}(14,6,1,6,1,0)_{9876}$$

$$\ell_{499} = \begin{bmatrix} 1 & 0 & 0 & \eta^{27} \\ 0 & 1 & 1 & \eta^8 \end{bmatrix}_{372481} = \begin{bmatrix} 1 & 0 & 0 & 11 \\ 0 & 1 & 1 & 13 \end{bmatrix}_{372481} = \mathbf{Pl}(14,6,15,6,1,0)_{10310}$$

$$\ell_{500} = \begin{bmatrix} 1 & 0 & 0 & \eta^{21} \\ 0 & 1 & 1 & \eta^2 \end{bmatrix}_{811905} = \begin{bmatrix} 1 & 0 & 0 & 24 \\ 0 & 1 & 1 & 4 \end{bmatrix}_{811905} = \mathbf{Pl}(14,6,9,6,1,0)_{10124}$$

$$\ell_{501} = \begin{bmatrix} 1 & 0 & 0 & \eta \\ 0 & 1 & 1 & \eta^{13} \end{bmatrix}_{68545} = \begin{bmatrix} 1 & 0 & 0 & 2 \\ 0 & 1 & 1 & 28 \end{bmatrix}_{68545} = \mathbf{Pl}(14,6,3,6,1,0)_{9938}$$

$$\ell_{502} = \begin{bmatrix} 1 & 0 & 0 & \eta^{14} \\ 0 & 1 & 1 & \eta^{26} \end{bmatrix}_{981633} = \begin{bmatrix} 1 & 0 & 0 & 29 \\ 0 & 1 & 1 & 23 \end{bmatrix}_{981633} = \mathbf{Pl}(14,6,5,6,1,0)_{10000}$$

$$\ell_{503} = \begin{bmatrix} 1 & 0 & 0 & \eta^{24} \\ 0 & 1 & 1 & \eta^5 \end{bmatrix}_{1014881} = \begin{bmatrix} 1 & 0 & 0 & 30 \\ 0 & 1 & 1 & 5 \end{bmatrix}_{1014881} = \mathbf{Pl}(14,6,23,6,1,0)_{10558}$$

$$\ell_{504} = \begin{bmatrix} 1 & 0 & 0 & \eta^9 \\ 0 & 1 & 1 & \eta^{21} \end{bmatrix}_{880193} = \begin{bmatrix} 1 & 0 & 0 & 26 \\ 0 & 1 & 1 & 24 \end{bmatrix}_{880193} = \mathbf{Pl}(14,6,17,6,1,0)_{10372}$$

$$\ell_{505} = \begin{bmatrix} 1 & 0 & 0 & \eta^3 \\ 0 & 1 & 1 & \eta^{15} \end{bmatrix}_{271585} = \begin{bmatrix} 1 & 0 & 0 & 8 \\ 0 & 1 & 1 & 31 \end{bmatrix}_{271585} = \mathbf{Pl}(14,6,27,6,1,0)_{10682}$$

$$\ell_{506} = \begin{bmatrix} 1 & 0 & 0 & \eta^5 \\ 0 & 1 & 1 & \eta^{17} \end{bmatrix}_{169729} = \begin{bmatrix} 1 & 0 & 0 & 5 \\ 0 & 1 & 1 & 19 \end{bmatrix}_{169729} = \mathbf{Pl}(14,6,29,6,1,0)_{10744}$$

$$\ell_{507} = \begin{bmatrix} 1 & 0 & 0 & \eta^{10} \\ 0 & 1 & 1 & \eta^{22} \end{bmatrix}_{575681} = \begin{bmatrix} 1 & 0 & 0 & 17 \\ 0 & 1 & 1 & 21 \end{bmatrix}_{575681} = \mathbf{Pl}(14,6,26,6,1,0)_{10651}$$

$$\ell_{508} = \begin{bmatrix} 1 & 0 & 0 & \eta^6 \\ 0 & 1 & 1 & \eta^{18} \end{bmatrix}_{338337} = \begin{bmatrix} 1 & 0 & 0 & 10 \\ 0 & 1 & 1 & 3 \end{bmatrix}_{338337} = \mathbf{Pl}(14,6,28,6,1,0)_{10713}$$

$$\ell_{509} = \begin{bmatrix} 1 & 0 & 0 & \eta^{22} \\ 0 & 1 & 1 & \eta^3 \end{bmatrix}_{710561} = \begin{bmatrix} 1 & 0 & 0 & 21 \\ 0 & 1 & 1 & 8 \end{bmatrix}_{710561} = \mathbf{Pl}(14,6,22,6,1,0)_{10527}$$

$$\ell_{510} = \begin{bmatrix} 1 & 0 & 0 & \eta^{15} \\ 0 & 1 & 1 & \eta^{27} \end{bmatrix}_{1048897} = \begin{bmatrix} 1 & 0 & 0 & 31 \\ 0 & 1 & 1 & 11 \end{bmatrix}_{1048897} = \mathbf{Pl}(14,6,16,6,1,0)_{10341}$$

$$\ell_{511} = \begin{bmatrix} 1 & 0 & 0 & \eta^{18} \\ 0 & 1 & 1 & \eta^{30} \end{bmatrix}_{102049} = \begin{bmatrix} 1 & 0 & 0 & 3 \\ 0 & 1 & 1 & 18 \end{bmatrix}_{102049} = \mathbf{Pl}(14,6,2,6,1,0)_{9907}$$

$$\ell_{512} = \begin{bmatrix} 1 & 0 & 0 & \eta^{17} \\ 0 & 1 & 1 & \eta^{29} \end{bmatrix}_{642945} = \begin{bmatrix} 1 & 0 & 0 & 19 \\ 0 & 1 & 1 & 9 \end{bmatrix}_{642945} = \mathbf{Pl}(14,6,4,6,1,0)_{9969}$$

$$\ell_{513} = \begin{bmatrix} 1 & 0 & 0 & \eta^7 \\ 0 & 1 & 1 & \eta^{19} \end{bmatrix}_{676673} = \begin{bmatrix} 1 & 0 & 0 & 20 \\ 0 & 1 & 1 & 6 \end{bmatrix}_{676673} = \mathbf{Pl}(14,6,14,6,1,0)_{10279}$$

$$\ell_{514} = \begin{bmatrix} 1 & 0 & 0 & \eta^{16} \\ 0 & 1 & 1 & \eta^{28} \end{bmatrix}_{913953} = \begin{bmatrix} 1 & 0 & 0 & 27 \\ 0 & 1 & 1 & 22 \end{bmatrix}_{913953} = \mathbf{Pl}(14,6,8,6,1,0)_{10093}$$

$$\ell_{515} = \begin{bmatrix} 1 & \eta^8 & \eta^8 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{454509} = \begin{bmatrix} 1 & 13 & 13 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{454509} = \mathbf{Pl}(0,13,0,13,1,0)_{3905}$$

$$\ell_{516} = \begin{bmatrix} 1 & 0 & 0 & \eta^{19} \\ 0 & 1 & 1 & \eta^{11} \end{bmatrix}_{203169} = \begin{bmatrix} 1 & 0 & 0 & 6 \\ 0 & 1 & 1 & 7 \end{bmatrix}_{203169} = \mathbf{Pl}(15,13,12,13,1,0)_{16945}$$

$$\ell_{517} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & \eta^{23} \end{bmatrix}_{34305} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 15 \end{bmatrix}_{34305} = \mathbf{Pl}(15,13,13,13,1,0)_{16976}$$

$$\ell_{518} = \begin{bmatrix} 1 & 0 & 0 & \eta^{30} \\ 0 & 1 & 1 & \eta^{22} \end{bmatrix}_{609505} = \begin{bmatrix} 1 & 0 & 0 & 18 \\ 0 & 1 & 1 & 21 \end{bmatrix}_{609505} = \mathbf{Pl}(15,13,26,13,1,0)_{17379}$$

$$\ell_{519} = \begin{bmatrix} 1 & 0 & 0 & \eta^{13} \\ 0 & 1 & 1 & \eta^5 \end{bmatrix}_{947233} = \begin{bmatrix} 1 & 0 & 0 & 28 \\ 0 & 1 & 1 & 5 \end{bmatrix}_{947233} = \mathbf{Pl}(15,13,23,13,1,0)_{17286}$$

$$\ell_{520} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{29} \\ 0 & 1 & 1 & \eta^{21} \end{array}\right]_{305185} = \left[\begin{array}{cccc} 1 & 0 & 0 & 9 \\ 0 & 1 & 1 & 24 \end{array}\right]_{305185} = \mathbf{Pl}(15, 13, 17, 13, 1, 0)_{17100}$$

$$\ell_{521} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{26} \\ 0 & 1 & 1 & \eta^{18} \end{array}\right]_{778049} = \left[\begin{array}{cccc} 1 & 0 & 0 & 23 \\ 0 & 1 & 1 & 3 \end{array}\right]_{778049} = \mathbf{Pl}(15, 13, 28, 13, 1, 0)_{17441}$$

$$\ell_{522} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{12} \\ 0 & 1 & 1 & \eta^{4} \end{array}\right]_{474049} = \left[\begin{array}{cccc} 1 & 0 & 0 & 14 \\ 0 & 1 & 1 & 16 \end{array}\right]_{474049} = \mathbf{Pl}(15, 13, 11, 13, 1, 0)_{16914}$$

$$\ell_{523} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{20} \\ 0 & 1 & 1 & \eta^{12} \end{array}\right]_{406337} = \left[\begin{array}{cccc} 1 & 0 & 0 & 12 \\ 0 & 1 & 1 & 14 \end{array}\right]_{406337} = \mathbf{Pl}(15, 13, 6, 13, 1, 0)_{16759}$$

$$\ell_{524} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{28} \\ 0 & 1 & 1 & \eta^{20} \end{array}\right]_{744513} = \left[\begin{array}{cccc} 1 & 0 & 0 & 22 \\ 0 & 1 & 1 & 12 \end{array}\right]_{744513} = \mathbf{Pl}(15, 13, 7, 13, 1, 0)_{16790}$$

$$\ell_{525} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{2} \\ 0 & 1 & 1 & \eta^{25} \end{array}\right]_{136097} = \left[\begin{array}{cccc} 1 & 0 & 0 & 4 \\ 0 & 1 & 1 & 25 \end{array}\right]_{136097} = \mathbf{Pl}(15, 13, 10, 13, 1, 0)_{16883}$$

$$\ell_{526} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{25} \\ 0 & 1 & 1 & \eta^{17} \end{array}\right]_{846209} = \left[\begin{array}{cccc} 1 & 0 & 0 & 25 \\ 0 & 1 & 1 & 19 \end{array}\right]_{846209} = \mathbf{Pl}(15, 13, 29, 13, 1, 0)_{17472}$$

$$\ell_{527} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{4} \\ 0 & 1 & 1 & \eta^{27} \end{array}\right]_{541537} = \left[\begin{array}{cccc} 1 & 0 & 0 & 16 \\ 0 & 1 & 1 & 11 \end{array}\right]_{541537} = \mathbf{Pl}(15, 13, 16, 13, 1, 0)_{17069}$$

$$\ell_{528} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{11} \\ 0 & 1 & 1 & \eta^{3} \end{array}\right]_{237025} = \left[\begin{array}{cccc} 1 & 0 & 0 & 7 \\ 0 & 1 & 1 & 8 \end{array}\right]_{237025} = \mathbf{Pl}(15, 13, 22, 13, 1, 0)_{17255}$$

$$\ell_{529} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{23} \\ 0 & 1 & 1 & \eta^{15} \end{array}\right]_{508353} = \left[\begin{array}{cccc} 1 & 0 & 0 & 15 \\ 0 & 1 & 1 & 31 \end{array}\right]_{508353} = \mathbf{Pl}(15, 13, 27, 13, 1, 0)_{17410}$$

$$\ell_{530} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{8} \\ 0 & 1 & 1 & 1 \end{array}\right]_{439745} = \left[\begin{array}{cccc} 1 & 0 & 0 & 13 \\ 0 & 1 & 1 & 1 \end{array}\right]_{439745} = \mathbf{Pl}(15, 13, 1, 13, 1, 0)_{16604}$$

$$\ell_{531} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{27} \\ 0 & 1 & 1 & \eta^{19} \end{array}\right]_{372257} = \left[\begin{array}{cccc} 1 & 0 & 0 & 11 \\ 0 & 1 & 1 & 6 \end{array}\right]_{372257} = \mathbf{Pl}(15, 13, 14, 13, 1, 0)_{17007}$$

$$\ell_{532} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{21} \\ 0 & 1 & 1 & \eta^{13} \end{array}\right]_{812673} = \left[\begin{array}{cccc} 1 & 0 & 0 & 24 \\ 0 & 1 & 1 & 28 \end{array}\right]_{812673} = \mathbf{Pl}(15, 13, 3, 13, 1, 0)_{16666}$$

$$\ell_{533} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta \\ 0 & 1 & 1 & \eta^{24} \end{array}\right]_{68609} = \left[\begin{array}{cccc} 1 & 0 & 0 & 2 \\ 0 & 1 & 1 & 30 \end{array}\right]_{68609} = \mathbf{Pl}(15, 13, 20, 13, 1, 0)_{17193}$$

$$\ell_{534} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{14} \\ 0 & 1 & 1 & \eta^{6} \end{array}\right]_{981217} = \left[\begin{array}{cccc} 1 & 0 & 0 & 29 \\ 0 & 1 & 1 & 10 \end{array}\right]_{981217} = \mathbf{Pl}(15, 13, 25, 13, 1, 0)_{17348}$$

$$\ell_{535} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{24} \\ 0 & 1 & 1 & \eta^{16} \end{array}\right]_{1015585} = \left[\begin{array}{cccc} 1 & 0 & 0 & 30 \\ 0 & 1 & 1 & 27 \end{array}\right]_{1015585} = \mathbf{Pl}(15, 13, 31, 13, 1, 0)_{17534}$$

$$\ell_{536} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{9} \\ 0 & 1 & 1 & \eta \end{array}\right]_{879489} = \left[\begin{array}{cccc} 1 & 0 & 0 & 26 \\ 0 & 1 & 1 & 2 \end{array}\right]_{879489} = \mathbf{Pl}(15, 13, 18, 13, 1, 0)_{17131}$$

$$\ell_{537} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{3} \\ 0 & 1 & 1 & \eta^{26} \end{array}\right]_{271329} = \left[\begin{array}{cccc} 1 & 0 & 0 & 8 \\ 0 & 1 & 1 & 23 \end{array}\right]_{271329} = \mathbf{Pl}(15, 13, 5, 13, 1, 0)_{16728}$$

$$\ell_{538} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{5} \\ 0 & 1 & 1 & \eta^{28} \end{array}\right]_{169825} = \left[\begin{array}{cccc} 1 & 0 & 0 & 5 \\ 0 & 1 & 1 & 22 \end{array}\right]_{169825} = \mathbf{Pl}(15, 13, 8, 13, 1, 0)_{16821}$$

$$\ell_{539} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{10} \\ 0 & 1 & 1 & \eta^{2} \end{array}\right]_{575137} = \left[\begin{array}{cccc} 1 & 0 & 0 & 17 \\ 0 & 1 & 1 & 4 \end{array}\right]_{575137} = \mathbf{Pl}(15, 13, 9, 13, 1, 0)_{16852}$$

$$\ell_{540} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{6} \\ 0 & 1 & 1 & \eta^{29} \end{array}\right]_{338529} = \left[\begin{array}{cccc} 1 & 0 & 0 & 10 \\ 0 & 1 & 1 & 9 \end{array}\right]_{338529} = \mathbf{Pl}(15, 13, 4, 13, 1, 0)_{16697}$$

$$\ell_{541} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{22} \\ 0 & 1 & 1 & \eta^{14} \end{array}\right]_{711233} = \left[\begin{array}{cccc} 1 & 0 & 0 & 21 \\ 0 & 1 & 1 & 29 \end{array}\right]_{711233} = \mathbf{Pl}(15,13,19,13,1,0)_{17162}$$

$$\ell_{542} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{15} \\ 0 & 1 & 1 & \eta^{7} \end{array}\right]_{1049185} = \left[\begin{array}{cccc} 1 & 0 & 0 & 31 \\ 0 & 1 & 1 & 20 \end{array}\right]_{1049185} = \mathbf{Pl}(15,13,30,13,1,0)_{17503}$$

$$\ell_{543} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{18} \\ 0 & 1 & 1 & \eta^{10} \end{array}\right]_{102017} = \left[\begin{array}{cccc} 1 & 0 & 0 & 3 \\ 0 & 1 & 1 & 17 \end{array}\right]_{102017} = \mathbf{Pl}(15,13,24,13,1,0)_{17317}$$

$$\ell_{544} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{17} \\ 0 & 1 & 1 & \eta^{9} \end{array}\right]_{643489} = \left[\begin{array}{cccc} 1 & 0 & 0 & 19 \\ 0 & 1 & 1 & 26 \end{array}\right]_{643489} = \mathbf{Pl}(15,13,21,13,1,0)_{17224}$$

$$\ell_{545} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{7} \\ 0 & 1 & 1 & \eta^{30} \end{array}\right]_{677057} = \left[\begin{array}{cccc} 1 & 0 & 0 & 20 \\ 0 & 1 & 1 & 18 \end{array}\right]_{677057} = \mathbf{Pl}(15,13,2,13,1,0)_{16635}$$

$$\ell_{546} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{16} \\ 0 & 1 & 1 & \eta^{8} \end{array}\right]_{913665} = \left[\begin{array}{cccc} 1 & 0 & 0 & 27 \\ 0 & 1 & 1 & 13 \end{array}\right]_{913665} = \mathbf{Pl}(15,13,15,13,1,0)_{17038}$$

$$\ell_{547} = \left[\begin{array}{cccc} 1 & \eta^{27} & \eta^{27} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{384747} = \left[\begin{array}{cccc} 1 & 11 & 11 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{384747} = \mathbf{Pl}(0,11,0,11,1,0)_{3777}$$

$$\ell_{548} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{21} \\ 0 & 1 & 1 & \eta^{25} \end{array}\right]_{812577} = \left[\begin{array}{cccc} 1 & 0 & 0 & 24 \\ 0 & 1 & 1 & 25 \end{array}\right]_{812577} = \mathbf{Pl}(16,11,10,11,1,0)_{14962}$$

$$\ell_{549} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & \eta^{4} \end{array}\right]_{34337} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 16 \end{array}\right]_{34337} = \mathbf{Pl}(16,11,11,11,1,0)_{14993}$$

$$\ell_{550} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{30} \\ 0 & 1 & 1 & \eta^{3} \end{array}\right]_{609089} = \left[\begin{array}{cccc} 1 & 0 & 0 & 18 \\ 0 & 1 & 1 & 8 \end{array}\right]_{609089} = \mathbf{Pl}(16,11,22,11,1,0)_{15334}$$

$$\ell_{551} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{13} \\ 0 & 1 & 1 & \eta^{17} \end{array}\right]_{947681} = \left[\begin{array}{cccc} 1 & 0 & 0 & 28 \\ 0 & 1 & 1 & 19 \end{array}\right]_{947681} = \mathbf{Pl}(16,11,29,11,1,0)_{15551}$$

$$\ell_{552} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{29} \\ 0 & 1 & 1 & \eta^{2} \end{array}\right]_{304545} = \left[\begin{array}{cccc} 1 & 0 & 0 & 9 \\ 0 & 1 & 1 & 4 \end{array}\right]_{304545} = \mathbf{Pl}(16,11,9,11,1,0)_{14931}$$

$$\ell_{553} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{26} \\ 0 & 1 & 1 & \eta^{30} \end{array}\right]_{778529} = \left[\begin{array}{cccc} 1 & 0 & 0 & 23 \\ 0 & 1 & 1 & 18 \end{array}\right]_{778529} = \mathbf{Pl}(16,11,2,11,1,0)_{14714}$$

$$\ell_{554} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{12} \\ 0 & 1 & 1 & \eta^{16} \end{array}\right]_{474401} = \left[\begin{array}{cccc} 1 & 0 & 0 & 14 \\ 0 & 1 & 1 & 27 \end{array}\right]_{474401} = \mathbf{Pl}(16,11,31,11,1,0)_{15613}$$

$$\ell_{555} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{20} \\ 0 & 1 & 1 & \eta^{24} \end{array}\right]_{406849} = \left[\begin{array}{cccc} 1 & 0 & 0 & 12 \\ 0 & 1 & 1 & 30 \end{array}\right]_{406849} = \mathbf{Pl}(16,11,20,11,1,0)_{15272}$$

$$\ell_{556} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{28} \\ 0 & 1 & 1 & \eta \end{array}\right]_{744193} = \left[\begin{array}{cccc} 1 & 0 & 0 & 22 \\ 0 & 1 & 1 & 2 \end{array}\right]_{744193} = \mathbf{Pl}(16,11,18,11,1,0)_{15210}$$

$$\ell_{557} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{2} \\ 0 & 1 & 1 & \eta^{6} \end{array}\right]_{135617} = \left[\begin{array}{cccc} 1 & 0 & 0 & 4 \\ 0 & 1 & 1 & 10 \end{array}\right]_{135617} = \mathbf{Pl}(16,11,25,11,1,0)_{15427}$$

$$\ell_{558} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{25} \\ 0 & 1 & 1 & \eta^{29} \end{array}\right]_{845889} = \left[\begin{array}{cccc} 1 & 0 & 0 & 25 \\ 0 & 1 & 1 & 9 \end{array}\right]_{845889} = \mathbf{Pl}(16,11,4,11,1,0)_{14776}$$

$$\ell_{559} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{4} \\ 0 & 1 & 1 & \eta^{8} \end{array}\right]_{541601} = \left[\begin{array}{cccc} 1 & 0 & 0 & 16 \\ 0 & 1 & 1 & 13 \end{array}\right]_{541601} = \mathbf{Pl}(16,11,15,11,1,0)_{15117}$$

$$\ell_{560} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{11} \\ 0 & 1 & 1 & \eta^{15} \end{array}\right]_{237761} = \left[\begin{array}{cccc} 1 & 0 & 0 & 7 \\ 0 & 1 & 1 & 31 \end{array}\right]_{237761} = \mathbf{Pl}(16,11,27,11,1,0)_{15489}$$

$$\ell_{561} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{23} \\ 0 & 1 & 1 & \eta^{27} \end{array}\right]_{507713} = \left[\begin{array}{cccc} 1 & 0 & 0 & 15 \\ 0 & 1 & 1 & 11 \end{array}\right]_{507713} = \mathbf{Pl}(16,11,16,11,1,0)_{15148}$$

$$\ell_{562} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{19} \\ 0 & 1 & 1 & \eta^{23} \end{array}\right]_{203425} = \left[\begin{array}{cccc} 1 & 0 & 0 & 6 \\ 0 & 1 & 1 & 15 \end{array}\right]_{203425} = \mathbf{Pl}(16,11,13,11,1,0)_{15055}$$

$$\ell_{563} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{8} \\ 0 & 1 & 1 & \eta^{12} \end{array}\right]_{440161} = \left[\begin{array}{cccc} 1 & 0 & 0 & 13 \\ 0 & 1 & 1 & 14 \end{array}\right]_{440161} = \mathbf{Pl}(16,11,6,11,1,0)_{14838}$$

$$\ell_{564} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{27} \\ 0 & 1 & 1 & 1 \end{array}\right]_{372097} = \left[\begin{array}{cccc} 1 & 0 & 0 & 11 \\ 0 & 1 & 1 & 1 \end{array}\right]_{372097} = \mathbf{Pl}(16,11,1,11,1,0)_{14683}$$

$$\ell_{565} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta \\ 0 & 1 & 1 & \eta^{5} \end{array}\right]_{67809} = \left[\begin{array}{cccc} 1 & 0 & 0 & 2 \\ 0 & 1 & 1 & 5 \end{array}\right]_{67809} = \mathbf{Pl}(16,11,23,11,1,0)_{15365}$$

$$\ell_{566} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{14} \\ 0 & 1 & 1 & \eta^{18} \end{array}\right]_{980993} = \left[\begin{array}{cccc} 1 & 0 & 0 & 29 \\ 0 & 1 & 1 & 3 \end{array}\right]_{980993} = \mathbf{Pl}(16,11,28,11,1,0)_{15520}$$

$$\ell_{567} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{24} \\ 0 & 1 & 1 & \eta^{28} \end{array}\right]_{1015425} = \left[\begin{array}{cccc} 1 & 0 & 0 & 30 \\ 0 & 1 & 1 & 22 \end{array}\right]_{1015425} = \mathbf{Pl}(16,11,8,11,1,0)_{14900}$$

$$\ell_{568} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{9} \\ 0 & 1 & 1 & \eta^{13} \end{array}\right]_{880321} = \left[\begin{array}{cccc} 1 & 0 & 0 & 26 \\ 0 & 1 & 1 & 28 \end{array}\right]_{880321} = \mathbf{Pl}(16,11,3,11,1,0)_{14745}$$

$$\ell_{569} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{3} \\ 0 & 1 & 1 & \eta^{7} \end{array}\right]_{271233} = \left[\begin{array}{cccc} 1 & 0 & 0 & 8 \\ 0 & 1 & 1 & 20 \end{array}\right]_{271233} = \mathbf{Pl}(16,11,30,11,1,0)_{15582}$$

$$\ell_{570} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{5} \\ 0 & 1 & 1 & \eta^{9} \end{array}\right]_{169953} = \left[\begin{array}{cccc} 1 & 0 & 0 & 5 \\ 0 & 1 & 1 & 26 \end{array}\right]_{169953} = \mathbf{Pl}(16,11,21,11,1,0)_{15303}$$

$$\ell_{571} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{10} \\ 0 & 1 & 1 & \eta^{14} \end{array}\right]_{575937} = \left[\begin{array}{cccc} 1 & 0 & 0 & 17 \\ 0 & 1 & 1 & 29 \end{array}\right]_{575937} = \mathbf{Pl}(16,11,19,11,1,0)_{15241}$$

$$\ell_{572} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{6} \\ 0 & 1 & 1 & \eta^{10} \end{array}\right]_{338785} = \left[\begin{array}{cccc} 1 & 0 & 0 & 10 \\ 0 & 1 & 1 & 17 \end{array}\right]_{338785} = \mathbf{Pl}(16,11,24,11,1,0)_{15396}$$

$$\ell_{573} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{22} \\ 0 & 1 & 1 & \eta^{26} \end{array}\right]_{711041} = \left[\begin{array}{cccc} 1 & 0 & 0 & 21 \\ 0 & 1 & 1 & 23 \end{array}\right]_{711041} = \mathbf{Pl}(16,11,5,11,1,0)_{14807}$$

$$\ell_{574} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{15} \\ 0 & 1 & 1 & \eta^{19} \end{array}\right]_{1048737} = \left[\begin{array}{cccc} 1 & 0 & 0 & 31 \\ 0 & 1 & 1 & 6 \end{array}\right]_{1048737} = \mathbf{Pl}(16,11,14,11,1,0)_{15086}$$

$$\ell_{575} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{18} \\ 0 & 1 & 1 & \eta^{22} \end{array}\right]_{102145} = \left[\begin{array}{cccc} 1 & 0 & 0 & 3 \\ 0 & 1 & 1 & 21 \end{array}\right]_{102145} = \mathbf{Pl}(16,11,26,11,1,0)_{15458}$$

$$\ell_{576} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{17} \\ 0 & 1 & 1 & \eta^{21} \end{array}\right]_{643425} = \left[\begin{array}{cccc} 1 & 0 & 0 & 19 \\ 0 & 1 & 1 & 24 \end{array}\right]_{643425} = \mathbf{Pl}(16,11,17,11,1,0)_{15179}$$

$$\ell_{577} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{7} \\ 0 & 1 & 1 & \eta^{11} \end{array}\right]_{676705} = \left[\begin{array}{cccc} 1 & 0 & 0 & 20 \\ 0 & 1 & 1 & 7 \end{array}\right]_{676705} = \mathbf{Pl}(16,11,12,11,1,0)_{15024}$$

$$\ell_{578} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{16} \\ 0 & 1 & 1 & \eta^{20} \end{array}\right]_{913633} = \left[\begin{array}{cccc} 1 & 0 & 0 & 27 \\ 0 & 1 & 1 & 12 \end{array}\right]_{913633} = \mathbf{Pl}(16,11,7,11,1,0)_{14869}$$

$$\ell_{579} = \left[\begin{array}{cccc} 1 & \eta^{21} & \eta^{21} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{838200} = \left[\begin{array}{cccc} 1 & 24 & 24 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{838200} = \mathbf{Pl}(0,24,0,24,1,0)_{4609}$$

$$\ell_{580} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{27} \\ 0 & 1 & 1 & \eta^{6} \end{array}\right]_{372385} = \left[\begin{array}{cccc} 1 & 0 & 0 & 11 \\ 0 & 1 & 1 & 10 \end{array}\right]_{372385} = \mathbf{Pl}(17,24,25,24,1,0)_{27921}$$

$$\ell_{581} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & \eta^{10} \end{array}\right]_{34369} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 17 \end{array}\right]_{34369} = \mathbf{Pl}(17,24,24,24,1,0)_{27890}$$

$$\ell_{582} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{30} \\ 0 & 1 & 1 & \eta^{9} \end{array}\right]_{609665} = \left[\begin{array}{cccc} 1 & 0 & 0 & 18 \\ 0 & 1 & 1 & 26 \end{array}\right]_{609665} = \mathbf{Pl}(17,24,21,24,1,0)_{27797}$$

$$\ell_{583} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{13} \\ 0 & 1 & 1 & \eta^{23} \end{array}\right]_{947553} = \left[\begin{array}{cccc} 1 & 0 & 0 & 28 \\ 0 & 1 & 1 & 15 \end{array}\right]_{947553} = \mathbf{Pl}(17,24,13,24,1,0)_{27549}$$

$$\ell_{584} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{29} \\ 0 & 1 & 1 & \eta^{8} \end{array}\right]_{304833} = \left[\begin{array}{cccc} 1 & 0 & 0 & 9 \\ 0 & 1 & 1 & 13 \end{array}\right]_{304833} = \mathbf{Pl}(17,24,15,24,1,0)_{27611}$$

$$\ell_{585} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{26} \\ 0 & 1 & 1 & \eta^{5} \end{array}\right]_{778113} = \left[\begin{array}{cccc} 1 & 0 & 0 & 23 \\ 0 & 1 & 1 & 5 \end{array}\right]_{778113} = \mathbf{Pl}(17,24,23,24,1,0)_{27859}$$

$$\ell_{586} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{12} \\ 0 & 1 & 1 & \eta^{22} \end{array}\right]_{474209} = \left[\begin{array}{cccc} 1 & 0 & 0 & 14 \\ 0 & 1 & 1 & 21 \end{array}\right]_{474209} = \mathbf{Pl}(17,24,26,24,1,0)_{27952}$$

$$\ell_{587} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{20} \\ 0 & 1 & 1 & \eta^{30} \end{array}\right]_{406465} = \left[\begin{array}{cccc} 1 & 0 & 0 & 12 \\ 0 & 1 & 1 & 18 \end{array}\right]_{406465} = \mathbf{Pl}(17,24,2,24,1,0)_{27208}$$

$$\ell_{588} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{28} \\ 0 & 1 & 1 & \eta^{7} \end{array}\right]_{744769} = \left[\begin{array}{cccc} 1 & 0 & 0 & 22 \\ 0 & 1 & 1 & 20 \end{array}\right]_{744769} = \mathbf{Pl}(17,24,30,24,1,0)_{28076}$$

$$\ell_{589} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{2} \\ 0 & 1 & 1 & \eta^{12} \end{array}\right]_{135745} = \left[\begin{array}{cccc} 1 & 0 & 0 & 4 \\ 0 & 1 & 1 & 14 \end{array}\right]_{135745} = \mathbf{Pl}(17,24,6,24,1,0)_{27332}$$

$$\ell_{590} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{25} \\ 0 & 1 & 1 & \eta^{4} \end{array}\right]_{846113} = \left[\begin{array}{cccc} 1 & 0 & 0 & 25 \\ 0 & 1 & 1 & 16 \end{array}\right]_{846113} = \mathbf{Pl}(17,24,11,24,1,0)_{27487}$$

$$\ell_{591} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{4} \\ 0 & 1 & 1 & \eta^{14} \end{array}\right]_{542113} = \left[\begin{array}{cccc} 1 & 0 & 0 & 16 \\ 0 & 1 & 1 & 29 \end{array}\right]_{542113} = \mathbf{Pl}(17,24,19,24,1,0)_{27735}$$

$$\ell_{592} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{11} \\ 0 & 1 & 1 & \eta^{21} \end{array}\right]_{237537} = \left[\begin{array}{cccc} 1 & 0 & 0 & 7 \\ 0 & 1 & 1 & 24 \end{array}\right]_{237537} = \mathbf{Pl}(17,24,17,24,1,0)_{27673}$$

$$\ell_{593} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{23} \\ 0 & 1 & 1 & \eta^{2} \end{array}\right]_{507489} = \left[\begin{array}{cccc} 1 & 0 & 0 & 15 \\ 0 & 1 & 1 & 4 \end{array}\right]_{507489} = \mathbf{Pl}(17,24,9,24,1,0)_{27425}$$

$$\ell_{594} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{19} \\ 0 & 1 & 1 & \eta^{29} \end{array}\right]_{203233} = \left[\begin{array}{cccc} 1 & 0 & 0 & 6 \\ 0 & 1 & 1 & 9 \end{array}\right]_{203233} = \mathbf{Pl}(17,24,4,24,1,0)_{27270}$$

$$\ell_{595} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{8} \\ 0 & 1 & 1 & \eta^{18} \end{array}\right]_{439809} = \left[\begin{array}{cccc} 1 & 0 & 0 & 13 \\ 0 & 1 & 1 & 3 \end{array}\right]_{439809} = \mathbf{Pl}(17,24,28,24,1,0)_{28014}$$

$$\ell_{596} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{21} \\ 0 & 1 & 1 & 1 \end{array}\right]_{811809} = \left[\begin{array}{cccc} 1 & 0 & 0 & 24 \\ 0 & 1 & 1 & 1 \end{array}\right]_{811809} = \mathbf{Pl}(17,24,1,24,1,0)_{27177}$$

$$\ell_{597} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta \\ 0 & 1 & 1 & \eta^{11} \end{array}\right]_{67873} = \left[\begin{array}{cccc} 1 & 0 & 0 & 2 \\ 0 & 1 & 1 & 7 \end{array}\right]_{67873} = \mathbf{Pl}(17,24,12,24,1,0)_{27518}$$

$$\ell_{598} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{14} \\ 0 & 1 & 1 & \eta^{24} \end{array}\right]_{981857} = \left[\begin{array}{cccc} 1 & 0 & 0 & 29 \\ 0 & 1 & 1 & 30 \end{array}\right]_{981857} = \mathbf{Pl}(17,24,20,24,1,0)_{27766}$$

$$\ell_{599} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{24} \\ 0 & 1 & 1 & \eta^{3} \end{array}\right]_{1014977} = \left[\begin{array}{cccc} 1 & 0 & 0 & 30 \\ 0 & 1 & 1 & 8 \end{array}\right]_{1014977} = \mathbf{Pl}(17,24,22,24,1,0)_{27828}$$

$$\ell_{600} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{9} \\ 0 & 1 & 1 & \eta^{19} \end{array}\right]_{879617} = \left[\begin{array}{cccc} 1 & 0 & 0 & 26 \\ 0 & 1 & 1 & 6 \end{array}\right]_{879617} = \mathbf{Pl}(17,24,14,24,1,0)_{27580}$$

$$\ell_{601} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{3} \\ 0 & 1 & 1 & \eta^{13} \end{array}\right]_{271489} = \left[\begin{array}{cccc} 1 & 0 & 0 & 8 \\ 0 & 1 & 1 & 28 \end{array}\right]_{271489} = \mathbf{Pl}(17,24,3,24,1,0)_{27239}$$

$$\ell_{602} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{5} \\ 0 & 1 & 1 & \eta^{15} \end{array}\right]_{170113} = \left[\begin{array}{cccc} 1 & 0 & 0 & 5 \\ 0 & 1 & 1 & 31 \end{array}\right]_{170113} = \mathbf{Pl}(17,24,27,24,1,0)_{27983}$$

$$\ell_{603} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{10} \\ 0 & 1 & 1 & \eta^{20} \end{array}\right]_{575393} = \left[\begin{array}{cccc} 1 & 0 & 0 & 17 \\ 0 & 1 & 1 & 12 \end{array}\right]_{575393} = \mathbf{Pl}(17,24,7,24,1,0)_{27363}$$

$$\ell_{604} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^6 \\ 0 & 1 & 1 & \eta^{16} \end{array} \right]_{339105} = \left[\begin{array}{cccc} 1 & 0 & 0 & 10 \\ 0 & 1 & 1 & 27 \end{array} \right]_{339105} = \mathbf{Pl}(17, 24, 31, 24, 1, 0)_{28107}$$

$$\ell_{605} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{22} \\ 0 & 1 & 1 & \eta \end{array} \right]_{710369} = \left[\begin{array}{cccc} 1 & 0 & 0 & 21 \\ 0 & 1 & 1 & 2 \end{array} \right]_{710369} = \mathbf{Pl}(17, 24, 18, 24, 1, 0)_{27704}$$

$$\ell_{606} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{15} \\ 0 & 1 & 1 & \eta^{25} \end{array} \right]_{1049345} = \left[\begin{array}{cccc} 1 & 0 & 0 & 31 \\ 0 & 1 & 1 & 25 \end{array} \right]_{1049345} = \mathbf{Pl}(17, 24, 10, 24, 1, 0)_{27456}$$

$$\ell_{607} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{18} \\ 0 & 1 & 1 & \eta^{28} \end{array} \right]_{102177} = \left[\begin{array}{cccc} 1 & 0 & 0 & 3 \\ 0 & 1 & 1 & 22 \end{array} \right]_{102177} = \mathbf{Pl}(17, 24, 8, 24, 1, 0)_{27394}$$

$$\ell_{608} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{17} \\ 0 & 1 & 1 & \eta^{27} \end{array} \right]_{643009} = \left[\begin{array}{cccc} 1 & 0 & 0 & 19 \\ 0 & 1 & 1 & 11 \end{array} \right]_{643009} = \mathbf{Pl}(17, 24, 16, 24, 1, 0)_{27642}$$

$$\ell_{609} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^7 \\ 0 & 1 & 1 & \eta^{17} \end{array} \right]_{677089} = \left[\begin{array}{cccc} 1 & 0 & 0 & 20 \\ 0 & 1 & 1 & 19 \end{array} \right]_{677089} = \mathbf{Pl}(17, 24, 29, 24, 1, 0)_{28045}$$

$$\ell_{610} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{16} \\ 0 & 1 & 1 & \eta^{26} \end{array} \right]_{913985} = \left[\begin{array}{cccc} 1 & 0 & 0 & 27 \\ 0 & 1 & 1 & 23 \end{array} \right]_{913985} = \mathbf{Pl}(17, 24, 5, 24, 1, 0)_{27301}$$

$$\ell_{611} = \left[\begin{array}{cccc} 1 & \eta & \eta & 0 \\ 0 & 0 & 0 & 1 \end{array} \right]_{70818} = \left[\begin{array}{cccc} 1 & 2 & 2 & 0 \\ 0 & 0 & 0 & 1 \end{array} \right]_{70818} = \mathbf{Pl}(0, 2, 0, 2, 1, 0)_{3201}$$

$$\ell_{612} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{14} \\ 0 & 1 & 1 & \eta^{13} \end{array} \right]_{981793} = \left[\begin{array}{cccc} 1 & 0 & 0 & 29 \\ 0 & 1 & 1 & 28 \end{array} \right]_{981793} = \mathbf{Pl}(18, 2, 3, 2, 1, 0)_{6098}$$

$$\ell_{613} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & \eta^{30} \end{array} \right]_{34401} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 18 \end{array} \right]_{34401} = \mathbf{Pl}(18, 2, 2, 2, 1, 0)_{6067}$$

$$\ell_{614} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{30} \\ 0 & 1 & 1 & \eta^{29} \end{array} \right]_{609121} = \left[\begin{array}{cccc} 1 & 0 & 0 & 18 \\ 0 & 1 & 1 & 9 \end{array} \right]_{609121} = \mathbf{Pl}(18, 2, 4, 2, 1, 0)_{6129}$$

$$\ell_{615} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{13} \\ 0 & 1 & 1 & \eta^{12} \end{array} \right]_{947521} = \left[\begin{array}{cccc} 1 & 0 & 0 & 28 \\ 0 & 1 & 1 & 14 \end{array} \right]_{947521} = \mathbf{Pl}(18, 2, 6, 2, 1, 0)_{6191}$$

$$\ell_{616} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{29} \\ 0 & 1 & 1 & \eta^{28} \end{array} \right]_{305121} = \left[\begin{array}{cccc} 1 & 0 & 0 & 9 \\ 0 & 1 & 1 & 22 \end{array} \right]_{305121} = \mathbf{Pl}(18, 2, 8, 2, 1, 0)_{6253}$$

$$\ell_{617} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{26} \\ 0 & 1 & 1 & \eta^{25} \end{array} \right]_{778753} = \left[\begin{array}{cccc} 1 & 0 & 0 & 23 \\ 0 & 1 & 1 & 25 \end{array} \right]_{778753} = \mathbf{Pl}(18, 2, 10, 2, 1, 0)_{6315}$$

$$\ell_{618} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{12} \\ 0 & 1 & 1 & \eta^{11} \end{array} \right]_{473761} = \left[\begin{array}{cccc} 1 & 0 & 0 & 14 \\ 0 & 1 & 1 & 7 \end{array} \right]_{473761} = \mathbf{Pl}(18, 2, 12, 2, 1, 0)_{6377}$$

$$\ell_{619} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{20} \\ 0 & 1 & 1 & \eta^{19} \end{array} \right]_{406081} = \left[\begin{array}{cccc} 1 & 0 & 0 & 12 \\ 0 & 1 & 1 & 6 \end{array} \right]_{406081} = \mathbf{Pl}(18, 2, 14, 2, 1, 0)_{6439}$$

$$\ell_{620} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{28} \\ 0 & 1 & 1 & \eta^{27} \end{array} \right]_{744481} = \left[\begin{array}{cccc} 1 & 0 & 0 & 22 \\ 0 & 1 & 1 & 11 \end{array} \right]_{744481} = \mathbf{Pl}(18, 2, 16, 2, 1, 0)_{6501}$$

$$\ell_{621} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^2 \\ 0 & 1 & 1 & \eta \end{array} \right]_{135361} = \left[\begin{array}{cccc} 1 & 0 & 0 & 4 \\ 0 & 1 & 1 & 2 \end{array} \right]_{135361} = \mathbf{Pl}(18, 2, 18, 2, 1, 0)_{6563}$$

$$\ell_{622} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{25} \\ 0 & 1 & 1 & \eta^{24} \end{array} \right]_{846561} = \left[\begin{array}{cccc} 1 & 0 & 0 & 25 \\ 0 & 1 & 1 & 30 \end{array} \right]_{846561} = \mathbf{Pl}(18, 2, 20, 2, 1, 0)_{6625}$$

$$\ell_{623} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^4 \\ 0 & 1 & 1 & \eta^3 \end{array} \right]_{541441} = \left[\begin{array}{cccc} 1 & 0 & 0 & 16 \\ 0 & 1 & 1 & 8 \end{array} \right]_{541441} = \mathbf{Pl}(18, 2, 22, 2, 1, 0)_{6687}$$

$$\ell_{624} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{11} \\ 0 & 1 & 1 & \eta^{10} \end{array} \right]_{237313} = \left[\begin{array}{cccc} 1 & 0 & 0 & 7 \\ 0 & 1 & 1 & 17 \end{array} \right]_{237313} = \mathbf{Pl}(18, 2, 24, 2, 1, 0)_{6749}$$

$$\ell_{625} = \begin{bmatrix} 1 & 0 & 0 & \eta^{23} \\ 0 & 1 & 1 & \eta^{22} \end{bmatrix}_{508033} = \begin{bmatrix} 1 & 0 & 0 & 15 \\ 0 & 1 & 1 & 21 \end{bmatrix}_{508033} = \mathbf{Pl}(18,2,26,2,1,0)_{6811}$$

$$\ell_{626} = \begin{bmatrix} 1 & 0 & 0 & \eta^{19} \\ 0 & 1 & 1 & \eta^{18} \end{bmatrix}_{203041} = \begin{bmatrix} 1 & 0 & 0 & 6 \\ 0 & 1 & 1 & 3 \end{bmatrix}_{203041} = \mathbf{Pl}(18,2,28,2,1,0)_{6873}$$

$$\ell_{627} = \begin{bmatrix} 1 & 0 & 0 & \eta^{8} \\ 0 & 1 & 1 & \eta^{7} \end{bmatrix}_{440353} = \begin{bmatrix} 1 & 0 & 0 & 13 \\ 0 & 1 & 1 & 20 \end{bmatrix}_{440353} = \mathbf{Pl}(18,2,30,2,1,0)_{6935}$$

$$\ell_{628} = \begin{bmatrix} 1 & 0 & 0 & \eta^{27} \\ 0 & 1 & 1 & \eta^{26} \end{bmatrix}_{372801} = \begin{bmatrix} 1 & 0 & 0 & 11 \\ 0 & 1 & 1 & 23 \end{bmatrix}_{372801} = \mathbf{Pl}(18,2,5,2,1,0)_{6160}$$

$$\ell_{629} = \begin{bmatrix} 1 & 0 & 0 & \eta^{21} \\ 0 & 1 & 1 & \eta^{20} \end{bmatrix}_{812161} = \begin{bmatrix} 1 & 0 & 0 & 24 \\ 0 & 1 & 1 & 12 \end{bmatrix}_{812161} = \mathbf{Pl}(18,2,7,2,1,0)_{6222}$$

$$\ell_{630} = \begin{bmatrix} 1 & 0 & 0 & \eta \\ 0 & 1 & 1 & 1 \end{bmatrix}_{67681} = \begin{bmatrix} 1 & 0 & 0 & 2 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{67681} = \mathbf{Pl}(18,2,1,2,1,0)_{6036}$$

$$\ell_{631} = \begin{bmatrix} 1 & 0 & 0 & \eta^{24} \\ 0 & 1 & 1 & \eta^{23} \end{bmatrix}_{1015201} = \begin{bmatrix} 1 & 0 & 0 & 30 \\ 0 & 1 & 1 & 15 \end{bmatrix}_{1015201} = \mathbf{Pl}(18,2,13,2,1,0)_{6408}$$

$$\ell_{632} = \begin{bmatrix} 1 & 0 & 0 & \eta^{9} \\ 0 & 1 & 1 & \eta^{8} \end{bmatrix}_{879841} = \begin{bmatrix} 1 & 0 & 0 & 26 \\ 0 & 1 & 1 & 13 \end{bmatrix}_{879841} = \mathbf{Pl}(18,2,15,2,1,0)_{6470}$$

$$\ell_{633} = \begin{bmatrix} 1 & 0 & 0 & \eta^{3} \\ 0 & 1 & 1 & \eta^{2} \end{bmatrix}_{270721} = \begin{bmatrix} 1 & 0 & 0 & 8 \\ 0 & 1 & 1 & 4 \end{bmatrix}_{270721} = \mathbf{Pl}(18,2,9,2,1,0)_{6284}$$

$$\ell_{634} = \begin{bmatrix} 1 & 0 & 0 & \eta^{5} \\ 0 & 1 & 1 & \eta^{4} \end{bmatrix}_{169633} = \begin{bmatrix} 1 & 0 & 0 & 5 \\ 0 & 1 & 1 & 16 \end{bmatrix}_{169633} = \mathbf{Pl}(18,2,11,2,1,0)_{6346}$$

$$\ell_{635} = \begin{bmatrix} 1 & 0 & 0 & \eta^{10} \\ 0 & 1 & 1 & \eta^{9} \end{bmatrix}_{575841} = \begin{bmatrix} 1 & 0 & 0 & 17 \\ 0 & 1 & 1 & 26 \end{bmatrix}_{575841} = \mathbf{Pl}(18,2,21,2,1,0)_{6656}$$

$$\ell_{636} = \begin{bmatrix} 1 & 0 & 0 & \eta^{6} \\ 0 & 1 & 1 & \eta^{5} \end{bmatrix}_{338401} = \begin{bmatrix} 1 & 0 & 0 & 10 \\ 0 & 1 & 1 & 5 \end{bmatrix}_{338401} = \mathbf{Pl}(18,2,23,2,1,0)_{6718}$$

$$\ell_{637} = \begin{bmatrix} 1 & 0 & 0 & \eta^{22} \\ 0 & 1 & 1 & \eta^{21} \end{bmatrix}_{711073} = \begin{bmatrix} 1 & 0 & 0 & 21 \\ 0 & 1 & 1 & 24 \end{bmatrix}_{711073} = \mathbf{Pl}(18,2,17,2,1,0)_{6532}$$

$$\ell_{638} = \begin{bmatrix} 1 & 0 & 0 & \eta^{15} \\ 0 & 1 & 1 & \eta^{14} \end{bmatrix}_{1049473} = \begin{bmatrix} 1 & 0 & 0 & 31 \\ 0 & 1 & 1 & 29 \end{bmatrix}_{1049473} = \mathbf{Pl}(18,2,19,2,1,0)_{6594}$$

$$\ell_{639} = \begin{bmatrix} 1 & 0 & 0 & \eta^{18} \\ 0 & 1 & 1 & \eta^{17} \end{bmatrix}_{102081} = \begin{bmatrix} 1 & 0 & 0 & 3 \\ 0 & 1 & 1 & 19 \end{bmatrix}_{102081} = \mathbf{Pl}(18,2,29,2,1,0)_{6904}$$

$$\ell_{640} = \begin{bmatrix} 1 & 0 & 0 & \eta^{17} \\ 0 & 1 & 1 & \eta^{16} \end{bmatrix}_{643521} = \begin{bmatrix} 1 & 0 & 0 & 19 \\ 0 & 1 & 1 & 27 \end{bmatrix}_{643521} = \mathbf{Pl}(18,2,31,2,1,0)_{6966}$$

$$\ell_{641} = \begin{bmatrix} 1 & 0 & 0 & \eta^{7} \\ 0 & 1 & 1 & \eta^{6} \end{bmatrix}_{676801} = \begin{bmatrix} 1 & 0 & 0 & 20 \\ 0 & 1 & 1 & 10 \end{bmatrix}_{676801} = \mathbf{Pl}(18,2,25,2,1,0)_{6780}$$

$$\ell_{642} = \begin{bmatrix} 1 & 0 & 0 & \eta^{16} \\ 0 & 1 & 1 & \eta^{15} \end{bmatrix}_{914241} = \begin{bmatrix} 1 & 0 & 0 & 27 \\ 0 & 1 & 1 & 31 \end{bmatrix}_{914241} = \mathbf{Pl}(18,2,27,2,1,0)_{6842}$$

$$\ell_{643} = \begin{bmatrix} 1 & \eta^{14} & \eta^{14} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1012605} = \begin{bmatrix} 1 & 29 & 29 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1012605} = \mathbf{Pl}(0,29,0,29,1,0)_{4929}$$

$$\ell_{644} = \begin{bmatrix} 1 & 0 & 0 & \eta \\ 0 & 1 & 1 & \eta^{18} \end{bmatrix}_{67745} = \begin{bmatrix} 1 & 0 & 0 & 2 \\ 0 & 1 & 1 & 3 \end{bmatrix}_{67745} = \mathbf{Pl}(19,29,28,29,1,0)_{32821}$$

$$\ell_{645} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & \eta^{17} \end{bmatrix}_{34433} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 19 \end{bmatrix}_{34433} = \mathbf{Pl}(19,29,29,29,1,0)_{32852}$$

$$\ell_{646} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{30} \\ 0 & 1 & 1 & \eta^{16} \end{array}\right]_{609697} = \left[\begin{array}{cccc} 1 & 0 & 0 & 18 \\ 0 & 1 & 1 & 27 \end{array}\right]_{609697} = \mathbf{Pl}(19, 29, 31, 29, 1, 0)_{32914}$$

$$\ell_{647} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{13} \\ 0 & 1 & 1 & \eta^{30} \end{array}\right]_{947649} = \left[\begin{array}{cccc} 1 & 0 & 0 & 28 \\ 0 & 1 & 1 & 18 \end{array}\right]_{947649} = \mathbf{Pl}(19, 29, 2, 29, 1, 0)_{32015}$$

$$\ell_{648} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{29} \\ 0 & 1 & 1 & \eta^{15} \end{array}\right]_{305409} = \left[\begin{array}{cccc} 1 & 0 & 0 & 9 \\ 0 & 1 & 1 & 31 \end{array}\right]_{305409} = \mathbf{Pl}(19, 29, 27, 29, 1, 0)_{32790}$$

$$\ell_{649} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{26} \\ 0 & 1 & 1 & \eta^{12} \end{array}\right]_{778401} = \left[\begin{array}{cccc} 1 & 0 & 0 & 23 \\ 0 & 1 & 1 & 14 \end{array}\right]_{778401} = \mathbf{Pl}(19, 29, 6, 29, 1, 0)_{32139}$$

$$\ell_{650} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{12} \\ 0 & 1 & 1 & \eta^{29} \end{array}\right]_{473825} = \left[\begin{array}{cccc} 1 & 0 & 0 & 14 \\ 0 & 1 & 1 & 9 \end{array}\right]_{473825} = \mathbf{Pl}(19, 29, 4, 29, 1, 0)_{32077}$$

$$\ell_{651} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{20} \\ 0 & 1 & 1 & \eta^{6} \end{array}\right]_{406209} = \left[\begin{array}{cccc} 1 & 0 & 0 & 12 \\ 0 & 1 & 1 & 10 \end{array}\right]_{406209} = \mathbf{Pl}(19, 29, 25, 29, 1, 0)_{32728}$$

$$\ell_{652} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{28} \\ 0 & 1 & 1 & \eta^{14} \end{array}\right]_{745057} = \left[\begin{array}{cccc} 1 & 0 & 0 & 22 \\ 0 & 1 & 1 & 29 \end{array}\right]_{745057} = \mathbf{Pl}(19, 29, 19, 29, 1, 0)_{32542}$$

$$\ell_{653} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{2} \\ 0 & 1 & 1 & \eta^{19} \end{array}\right]_{135489} = \left[\begin{array}{cccc} 1 & 0 & 0 & 4 \\ 0 & 1 & 1 & 6 \end{array}\right]_{135489} = \mathbf{Pl}(19, 29, 14, 29, 1, 0)_{32387}$$

$$\ell_{654} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{25} \\ 0 & 1 & 1 & \eta^{11} \end{array}\right]_{845825} = \left[\begin{array}{cccc} 1 & 0 & 0 & 25 \\ 0 & 1 & 1 & 7 \end{array}\right]_{845825} = \mathbf{Pl}(19, 29, 12, 29, 1, 0)_{32325}$$

$$\ell_{655} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{4} \\ 0 & 1 & 1 & \eta^{21} \end{array}\right]_{541953} = \left[\begin{array}{cccc} 1 & 0 & 0 & 16 \\ 0 & 1 & 1 & 24 \end{array}\right]_{541953} = \mathbf{Pl}(19, 29, 17, 29, 1, 0)_{32480}$$

$$\ell_{656} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{11} \\ 0 & 1 & 1 & \eta^{28} \end{array}\right]_{237473} = \left[\begin{array}{cccc} 1 & 0 & 0 & 7 \\ 0 & 1 & 1 & 22 \end{array}\right]_{237473} = \mathbf{Pl}(19, 29, 8, 29, 1, 0)_{32201}$$

$$\ell_{657} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{23} \\ 0 & 1 & 1 & \eta^{9} \end{array}\right]_{508193} = \left[\begin{array}{cccc} 1 & 0 & 0 & 15 \\ 0 & 1 & 1 & 26 \end{array}\right]_{508193} = \mathbf{Pl}(19, 29, 21, 29, 1, 0)_{32604}$$

$$\ell_{658} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{19} \\ 0 & 1 & 1 & \eta^{5} \end{array}\right]_{203105} = \left[\begin{array}{cccc} 1 & 0 & 0 & 6 \\ 0 & 1 & 1 & 5 \end{array}\right]_{203105} = \mathbf{Pl}(19, 29, 23, 29, 1, 0)_{32666}$$

$$\ell_{659} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{8} \\ 0 & 1 & 1 & \eta^{25} \end{array}\right]_{440513} = \left[\begin{array}{cccc} 1 & 0 & 0 & 13 \\ 0 & 1 & 1 & 25 \end{array}\right]_{440513} = \mathbf{Pl}(19, 29, 10, 29, 1, 0)_{32263}$$

$$\ell_{660} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{27} \\ 0 & 1 & 1 & \eta^{13} \end{array}\right]_{372961} = \left[\begin{array}{cccc} 1 & 0 & 0 & 11 \\ 0 & 1 & 1 & 28 \end{array}\right]_{372961} = \mathbf{Pl}(19, 29, 3, 29, 1, 0)_{32046}$$

$$\ell_{661} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{21} \\ 0 & 1 & 1 & \eta^{7} \end{array}\right]_{812417} = \left[\begin{array}{cccc} 1 & 0 & 0 & 24 \\ 0 & 1 & 1 & 20 \end{array}\right]_{812417} = \mathbf{Pl}(19, 29, 30, 29, 1, 0)_{32883}$$

$$\ell_{662} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{14} \\ 0 & 1 & 1 & 1 \end{array}\right]_{980929} = \left[\begin{array}{cccc} 1 & 0 & 0 & 29 \\ 0 & 1 & 1 & 1 \end{array}\right]_{980929} = \mathbf{Pl}(19, 29, 1, 29, 1, 0)_{31984}$$

$$\ell_{663} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{24} \\ 0 & 1 & 1 & \eta^{10} \end{array}\right]_{1015265} = \left[\begin{array}{cccc} 1 & 0 & 0 & 30 \\ 0 & 1 & 1 & 17 \end{array}\right]_{1015265} = \mathbf{Pl}(19, 29, 24, 29, 1, 0)_{32697}$$

$$\ell_{664} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{9} \\ 0 & 1 & 1 & \eta^{26} \end{array}\right]_{880161} = \left[\begin{array}{cccc} 1 & 0 & 0 & 26 \\ 0 & 1 & 1 & 23 \end{array}\right]_{880161} = \mathbf{Pl}(19, 29, 5, 29, 1, 0)_{32108}$$

$$\ell_{665} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{3} \\ 0 & 1 & 1 & \eta^{20} \end{array}\right]_{270977} = \left[\begin{array}{cccc} 1 & 0 & 0 & 8 \\ 0 & 1 & 1 & 12 \end{array}\right]_{270977} = \mathbf{Pl}(19, 29, 7, 29, 1, 0)_{32170}$$

$$\ell_{666} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{5} \\ 0 & 1 & 1 & \eta^{22} \end{array}\right]_{169793} = \left[\begin{array}{cccc} 1 & 0 & 0 & 5 \\ 0 & 1 & 1 & 21 \end{array}\right]_{169793} = \mathbf{Pl}(19, 29, 26, 29, 1, 0)_{32759}$$

$$\ell_{667} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{10} \\ 0 & 1 & 1 & \eta^{27} \end{array}\right]_{575361} = \left[\begin{array}{cccc} 1 & 0 & 0 & 17 \\ 0 & 1 & 1 & 11 \end{array}\right]_{575361} = \mathbf{Pl}(19,29,16,29,1,0)_{32449}$$

$$\ell_{668} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{6} \\ 0 & 1 & 1 & \eta^{23} \end{array}\right]_{338721} = \left[\begin{array}{cccc} 1 & 0 & 0 & 10 \\ 0 & 1 & 1 & 15 \end{array}\right]_{338721} = \mathbf{Pl}(19,29,13,29,1,0)_{32356}$$

$$\ell_{669} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{22} \\ 0 & 1 & 1 & \eta^{8} \end{array}\right]_{710721} = \left[\begin{array}{cccc} 1 & 0 & 0 & 21 \\ 0 & 1 & 1 & 13 \end{array}\right]_{710721} = \mathbf{Pl}(19,29,15,29,1,0)_{32418}$$

$$\ell_{670} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{15} \\ 0 & 1 & 1 & \eta \end{array}\right]_{1048609} = \left[\begin{array}{cccc} 1 & 0 & 0 & 31 \\ 0 & 1 & 1 & 2 \end{array}\right]_{1048609} = \mathbf{Pl}(19,29,18,29,1,0)_{32511}$$

$$\ell_{671} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{18} \\ 0 & 1 & 1 & \eta^{4} \end{array}\right]_{101985} = \left[\begin{array}{cccc} 1 & 0 & 0 & 3 \\ 0 & 1 & 1 & 16 \end{array}\right]_{101985} = \mathbf{Pl}(19,29,11,29,1,0)_{32294}$$

$$\ell_{672} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{17} \\ 0 & 1 & 1 & \eta^{3} \end{array}\right]_{642913} = \left[\begin{array}{cccc} 1 & 0 & 0 & 19 \\ 0 & 1 & 1 & 8 \end{array}\right]_{642913} = \mathbf{Pl}(19,29,22,29,1,0)_{32635}$$

$$\ell_{673} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{7} \\ 0 & 1 & 1 & \eta^{24} \end{array}\right]_{677441} = \left[\begin{array}{cccc} 1 & 0 & 0 & 20 \\ 0 & 1 & 1 & 30 \end{array}\right]_{677441} = \mathbf{Pl}(19,29,20,29,1,0)_{32573}$$

$$\ell_{674} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{16} \\ 0 & 1 & 1 & \eta^{2} \end{array}\right]_{913377} = \left[\begin{array}{cccc} 1 & 0 & 0 & 27 \\ 0 & 1 & 1 & 4 \end{array}\right]_{913377} = \mathbf{Pl}(19,29,9,29,1,0)_{32232}$$

$$\ell_{675} = \left[\begin{array}{cccc} 1 & \eta^{24} & \eta^{24} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1047486} = \left[\begin{array}{cccc} 1 & 30 & 30 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1047486} = \mathbf{Pl}(0,30,0,30,1,0)_{4993}$$

$$\ell_{676} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{9} \\ 0 & 1 & 1 & \eta^{16} \end{array}\right]_{880289} = \left[\begin{array}{cccc} 1 & 0 & 0 & 26 \\ 0 & 1 & 1 & 27 \end{array}\right]_{880289} = \mathbf{Pl}(20,30,31,30,1,0)_{33876}$$

$$\ell_{677} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & \eta^{7} \end{array}\right]_{34465} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 20 \end{array}\right]_{34465} = \mathbf{Pl}(20,30,30,30,1,0)_{33845}$$

$$\ell_{678} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{30} \\ 0 & 1 & 1 & \eta^{6} \end{array}\right]_{609153} = \left[\begin{array}{cccc} 1 & 0 & 0 & 18 \\ 0 & 1 & 1 & 10 \end{array}\right]_{609153} = \mathbf{Pl}(20,30,25,30,1,0)_{33690}$$

$$\ell_{679} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{13} \\ 0 & 1 & 1 & \eta^{20} \end{array}\right]_{947457} = \left[\begin{array}{cccc} 1 & 0 & 0 & 28 \\ 0 & 1 & 1 & 12 \end{array}\right]_{947457} = \mathbf{Pl}(20,30,7,30,1,0)_{33132}$$

$$\ell_{680} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{29} \\ 0 & 1 & 1 & \eta^{5} \end{array}\right]_{304577} = \left[\begin{array}{cccc} 1 & 0 & 0 & 9 \\ 0 & 1 & 1 & 5 \end{array}\right]_{304577} = \mathbf{Pl}(20,30,23,30,1,0)_{33628}$$

$$\ell_{681} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{26} \\ 0 & 1 & 1 & \eta^{2} \end{array}\right]_{778081} = \left[\begin{array}{cccc} 1 & 0 & 0 & 23 \\ 0 & 1 & 1 & 4 \end{array}\right]_{778081} = \mathbf{Pl}(20,30,9,30,1,0)_{33194}$$

$$\ell_{682} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{12} \\ 0 & 1 & 1 & \eta^{19} \end{array}\right]_{473729} = \left[\begin{array}{cccc} 1 & 0 & 0 & 14 \\ 0 & 1 & 1 & 6 \end{array}\right]_{473729} = \mathbf{Pl}(20,30,14,30,1,0)_{33349}$$

$$\ell_{683} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{20} \\ 0 & 1 & 1 & \eta^{27} \end{array}\right]_{406241} = \left[\begin{array}{cccc} 1 & 0 & 0 & 12 \\ 0 & 1 & 1 & 11 \end{array}\right]_{406241} = \mathbf{Pl}(20,30,16,30,1,0)_{33411}$$

$$\ell_{684} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{28} \\ 0 & 1 & 1 & \eta^{4} \end{array}\right]_{744641} = \left[\begin{array}{cccc} 1 & 0 & 0 & 22 \\ 0 & 1 & 1 & 16 \end{array}\right]_{744641} = \mathbf{Pl}(20,30,11,30,1,0)_{33256}$$

$$\ell_{685} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{2} \\ 0 & 1 & 1 & \eta^{9} \end{array}\right]_{136129} = \left[\begin{array}{cccc} 1 & 0 & 0 & 4 \\ 0 & 1 & 1 & 26 \end{array}\right]_{136129} = \mathbf{Pl}(20,30,21,30,1,0)_{33566}$$

$$\ell_{686} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{25} \\ 0 & 1 & 1 & \eta \end{array}\right]_{845665} = \left[\begin{array}{cccc} 1 & 0 & 0 & 25 \\ 0 & 1 & 1 & 2 \end{array}\right]_{845665} = \mathbf{Pl}(20,30,18,30,1,0)_{33473}$$

$$\ell_{687} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{4} \\ 0 & 1 & 1 & \eta^{11} \end{array}\right]_{541409} = \left[\begin{array}{cccc} 1 & 0 & 0 & 16 \\ 0 & 1 & 1 & 7 \end{array}\right]_{541409} = \mathbf{Pl}(20,30,12,30,1,0)_{33287}$$

$$\ell_{688} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{11} \\ 0 & 1 & 1 & \eta^{18} \end{array}\right]_{236865} = \left[\begin{array}{cccc} 1 & 0 & 0 & 7 \\ 0 & 1 & 1 & 3 \end{array}\right]_{236865} = \mathbf{Pl}(20,30,28,30,1,0)_{33783}$$

$$\ell_{689} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{23} \\ 0 & 1 & 1 & \eta^{30} \end{array}\right]_{507937} = \left[\begin{array}{cccc} 1 & 0 & 0 & 15 \\ 0 & 1 & 1 & 18 \end{array}\right]_{507937} = \mathbf{Pl}(20,30,2,30,1,0)_{32977}$$

$$\ell_{690} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{19} \\ 0 & 1 & 1 & \eta^{26} \end{array}\right]_{203681} = \left[\begin{array}{cccc} 1 & 0 & 0 & 6 \\ 0 & 1 & 1 & 23 \end{array}\right]_{203681} = \mathbf{Pl}(20,30,5,30,1,0)_{33070}$$

$$\ell_{691} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{8} \\ 0 & 1 & 1 & \eta^{15} \end{array}\right]_{440705} = \left[\begin{array}{cccc} 1 & 0 & 0 & 13 \\ 0 & 1 & 1 & 31 \end{array}\right]_{440705} = \mathbf{Pl}(20,30,27,30,1,0)_{33752}$$

$$\ell_{692} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{27} \\ 0 & 1 & 1 & \eta^{3} \end{array}\right]_{372321} = \left[\begin{array}{cccc} 1 & 0 & 0 & 11 \\ 0 & 1 & 1 & 8 \end{array}\right]_{372321} = \mathbf{Pl}(20,30,22,30,1,0)_{33597}$$

$$\ell_{693} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{21} \\ 0 & 1 & 1 & \eta^{28} \end{array}\right]_{812481} = \left[\begin{array}{cccc} 1 & 0 & 0 & 24 \\ 0 & 1 & 1 & 22 \end{array}\right]_{812481} = \mathbf{Pl}(20,30,8,30,1,0)_{33163}$$

$$\ell_{694} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta \\ 0 & 1 & 1 & \eta^{8} \end{array}\right]_{68065} = \left[\begin{array}{cccc} 1 & 0 & 0 & 2 \\ 0 & 1 & 1 & 13 \end{array}\right]_{68065} = \mathbf{Pl}(20,30,15,30,1,0)_{33380}$$

$$\ell_{695} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{14} \\ 0 & 1 & 1 & \eta^{21} \end{array}\right]_{981665} = \left[\begin{array}{cccc} 1 & 0 & 0 & 29 \\ 0 & 1 & 1 & 24 \end{array}\right]_{981665} = \mathbf{Pl}(20,30,17,30,1,0)_{33442}$$

$$\ell_{696} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{24} \\ 0 & 1 & 1 & 1 \end{array}\right]_{1014753} = \left[\begin{array}{cccc} 1 & 0 & 0 & 30 \\ 0 & 1 & 1 & 1 \end{array}\right]_{1014753} = \mathbf{Pl}(20,30,1,30,1,0)_{32946}$$

$$\ell_{697} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{3} \\ 0 & 1 & 1 & \eta^{10} \end{array}\right]_{271137} = \left[\begin{array}{cccc} 1 & 0 & 0 & 8 \\ 0 & 1 & 1 & 17 \end{array}\right]_{271137} = \mathbf{Pl}(20,30,24,30,1,0)_{33659}$$

$$\ell_{698} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{5} \\ 0 & 1 & 1 & \eta^{12} \end{array}\right]_{169569} = \left[\begin{array}{cccc} 1 & 0 & 0 & 5 \\ 0 & 1 & 1 & 14 \end{array}\right]_{169569} = \mathbf{Pl}(20,30,6,30,1,0)_{33101}$$

$$\ell_{699} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{10} \\ 0 & 1 & 1 & \eta^{17} \end{array}\right]_{575617} = \left[\begin{array}{cccc} 1 & 0 & 0 & 17 \\ 0 & 1 & 1 & 19 \end{array}\right]_{575617} = \mathbf{Pl}(20,30,29,30,1,0)_{33814}$$

$$\ell_{700} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{6} \\ 0 & 1 & 1 & \eta^{13} \end{array}\right]_{339137} = \left[\begin{array}{cccc} 1 & 0 & 0 & 10 \\ 0 & 1 & 1 & 28 \end{array}\right]_{339137} = \mathbf{Pl}(20,30,3,30,1,0)_{33008}$$

$$\ell_{701} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{22} \\ 0 & 1 & 1 & \eta^{29} \end{array}\right]_{710593} = \left[\begin{array}{cccc} 1 & 0 & 0 & 21 \\ 0 & 1 & 1 & 9 \end{array}\right]_{710593} = \mathbf{Pl}(20,30,4,30,1,0)_{33039}$$

$$\ell_{702} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{15} \\ 0 & 1 & 1 & \eta^{22} \end{array}\right]_{1049217} = \left[\begin{array}{cccc} 1 & 0 & 0 & 31 \\ 0 & 1 & 1 & 21 \end{array}\right]_{1049217} = \mathbf{Pl}(20,30,26,30,1,0)_{33721}$$

$$\ell_{703} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{18} \\ 0 & 1 & 1 & \eta^{25} \end{array}\right]_{102273} = \left[\begin{array}{cccc} 1 & 0 & 0 & 3 \\ 0 & 1 & 1 & 25 \end{array}\right]_{102273} = \mathbf{Pl}(20,30,10,30,1,0)_{33225}$$

$$\ell_{704} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{17} \\ 0 & 1 & 1 & \eta^{24} \end{array}\right]_{643617} = \left[\begin{array}{cccc} 1 & 0 & 0 & 19 \\ 0 & 1 & 1 & 30 \end{array}\right]_{643617} = \mathbf{Pl}(20,30,20,30,1,0)_{33535}$$

$$\ell_{705} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{7} \\ 0 & 1 & 1 & \eta^{14} \end{array}\right]_{677409} = \left[\begin{array}{cccc} 1 & 0 & 0 & 20 \\ 0 & 1 & 1 & 29 \end{array}\right]_{677409} = \mathbf{Pl}(20,30,19,30,1,0)_{33504}$$

$$\ell_{706} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{16} \\ 0 & 1 & 1 & \eta^{23} \end{array}\right]_{913729} = \left[\begin{array}{cccc} 1 & 0 & 0 & 27 \\ 0 & 1 & 1 & 15 \end{array}\right]_{913729} = \mathbf{Pl}(20,30,13,30,1,0)_{33318}$$

$$\ell_{707} = \left[\begin{array}{cccc} 1 & \eta^{9} & \eta^{9} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{907962} = \left[\begin{array}{cccc} 1 & 26 & 26 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{907962} = \mathbf{Pl}(0,26,0,26,1,0)_{4737}$$

$$\ell_{708} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{24} \\ 0 & 1 & 1 & \eta^{15} \end{array}\right]_{1015713} = \left[\begin{array}{cccc} 1 & 0 & 0 & 30 \\ 0 & 1 & 1 & 31 \end{array}\right]_{1015713} = \mathbf{Pl}(21,26,27,26,1,0)_{29909}$$

$$\ell_{709} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & \eta^{22} \end{array}\right]_{34497} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 21 \end{array}\right]_{34497} = \mathbf{Pl}(21, 26, 26, 26, 1, 0)_{29878}$$

$$\ell_{710} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{30} \\ 0 & 1 & 1 & \eta^{21} \end{array}\right]_{609601} = \left[\begin{array}{cccc} 1 & 0 & 0 & 18 \\ 0 & 1 & 1 & 24 \end{array}\right]_{609601} = \mathbf{Pl}(21, 26, 17, 26, 1, 0)_{29599}$$

$$\ell_{711} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{13} \\ 0 & 1 & 1 & \eta^{4} \end{array}\right]_{947585} = \left[\begin{array}{cccc} 1 & 0 & 0 & 28 \\ 0 & 1 & 1 & 16 \end{array}\right]_{947585} = \mathbf{Pl}(21, 26, 11, 26, 1, 0)_{29413}$$

$$\ell_{712} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{29} \\ 0 & 1 & 1 & \eta^{20} \end{array}\right]_{304801} = \left[\begin{array}{cccc} 1 & 0 & 0 & 9 \\ 0 & 1 & 1 & 12 \end{array}\right]_{304801} = \mathbf{Pl}(21, 26, 7, 26, 1, 0)_{29289}$$

$$\ell_{713} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{26} \\ 0 & 1 & 1 & \eta^{17} \end{array}\right]_{778561} = \left[\begin{array}{cccc} 1 & 0 & 0 & 23 \\ 0 & 1 & 1 & 19 \end{array}\right]_{778561} = \mathbf{Pl}(21, 26, 29, 26, 1, 0)_{29971}$$

$$\ell_{714} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{12} \\ 0 & 1 & 1 & \eta^{3} \end{array}\right]_{473793} = \left[\begin{array}{cccc} 1 & 0 & 0 & 14 \\ 0 & 1 & 1 & 8 \end{array}\right]_{473793} = \mathbf{Pl}(21, 26, 22, 26, 1, 0)_{29754}$$

$$\ell_{715} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{20} \\ 0 & 1 & 1 & \eta^{11} \end{array}\right]_{406113} = \left[\begin{array}{cccc} 1 & 0 & 0 & 12 \\ 0 & 1 & 1 & 7 \end{array}\right]_{406113} = \mathbf{Pl}(21, 26, 12, 26, 1, 0)_{29444}$$

$$\ell_{716} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{28} \\ 0 & 1 & 1 & \eta^{19} \end{array}\right]_{744321} = \left[\begin{array}{cccc} 1 & 0 & 0 & 22 \\ 0 & 1 & 1 & 6 \end{array}\right]_{744321} = \mathbf{Pl}(21, 26, 14, 26, 1, 0)_{29506}$$

$$\ell_{717} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{2} \\ 0 & 1 & 1 & \eta^{24} \end{array}\right]_{136257} = \left[\begin{array}{cccc} 1 & 0 & 0 & 4 \\ 0 & 1 & 1 & 30 \end{array}\right]_{136257} = \mathbf{Pl}(21, 26, 20, 26, 1, 0)_{29692}$$

$$\ell_{718} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{25} \\ 0 & 1 & 1 & \eta^{16} \end{array}\right]_{846465} = \left[\begin{array}{cccc} 1 & 0 & 0 & 25 \\ 0 & 1 & 1 & 27 \end{array}\right]_{846465} = \mathbf{Pl}(21, 26, 31, 26, 1, 0)_{30033}$$

$$\ell_{719} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{4} \\ 0 & 1 & 1 & \eta^{26} \end{array}\right]_{541921} = \left[\begin{array}{cccc} 1 & 0 & 0 & 16 \\ 0 & 1 & 1 & 23 \end{array}\right]_{541921} = \mathbf{Pl}(21, 26, 5, 26, 1, 0)_{29227}$$

$$\ell_{720} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{11} \\ 0 & 1 & 1 & \eta^{2} \end{array}\right]_{236897} = \left[\begin{array}{cccc} 1 & 0 & 0 & 7 \\ 0 & 1 & 1 & 4 \end{array}\right]_{236897} = \mathbf{Pl}(21, 26, 9, 26, 1, 0)_{29351}$$

$$\ell_{721} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{23} \\ 0 & 1 & 1 & \eta^{14} \end{array}\right]_{508289} = \left[\begin{array}{cccc} 1 & 0 & 0 & 15 \\ 0 & 1 & 1 & 29 \end{array}\right]_{508289} = \mathbf{Pl}(21, 26, 19, 26, 1, 0)_{29661}$$

$$\ell_{722} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{19} \\ 0 & 1 & 1 & \eta^{10} \end{array}\right]_{203489} = \left[\begin{array}{cccc} 1 & 0 & 0 & 6 \\ 0 & 1 & 1 & 17 \end{array}\right]_{203489} = \mathbf{Pl}(21, 26, 24, 26, 1, 0)_{29816}$$

$$\ell_{723} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{8} \\ 0 & 1 & 1 & \eta^{30} \end{array}\right]_{440289} = \left[\begin{array}{cccc} 1 & 0 & 0 & 13 \\ 0 & 1 & 1 & 18 \end{array}\right]_{440289} = \mathbf{Pl}(21, 26, 2, 26, 1, 0)_{29134}$$

$$\ell_{724} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{27} \\ 0 & 1 & 1 & \eta^{18} \end{array}\right]_{372161} = \left[\begin{array}{cccc} 1 & 0 & 0 & 11 \\ 0 & 1 & 1 & 3 \end{array}\right]_{372161} = \mathbf{Pl}(21, 26, 28, 26, 1, 0)_{29940}$$

$$\ell_{725} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{21} \\ 0 & 1 & 1 & \eta^{12} \end{array}\right]_{812225} = \left[\begin{array}{cccc} 1 & 0 & 0 & 24 \\ 0 & 1 & 1 & 14 \end{array}\right]_{812225} = \mathbf{Pl}(21, 26, 6, 26, 1, 0)_{29258}$$

$$\ell_{726} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta \\ 0 & 1 & 1 & \eta^{23} \end{array}\right]_{68129} = \left[\begin{array}{cccc} 1 & 0 & 0 & 2 \\ 0 & 1 & 1 & 15 \end{array}\right]_{68129} = \mathbf{Pl}(21, 26, 13, 26, 1, 0)_{29475}$$

$$\ell_{727} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{14} \\ 0 & 1 & 1 & \eta^{5} \end{array}\right]_{981057} = \left[\begin{array}{cccc} 1 & 0 & 0 & 29 \\ 0 & 1 & 1 & 5 \end{array}\right]_{981057} = \mathbf{Pl}(21, 26, 23, 26, 1, 0)_{29785}$$

$$\ell_{728} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{9} \\ 0 & 1 & 1 & 1 \end{array}\right]_{879457} = \left[\begin{array}{cccc} 1 & 0 & 0 & 26 \\ 0 & 1 & 1 & 1 \end{array}\right]_{879457} = \mathbf{Pl}(21, 26, 1, 26, 1, 0)_{29103}$$

$$\ell_{729} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{3} \\ 0 & 1 & 1 & \eta^{25} \end{array}\right]_{271393} = \left[\begin{array}{cccc} 1 & 0 & 0 & 8 \\ 0 & 1 & 1 & 25 \end{array}\right]_{271393} = \mathbf{Pl}(21, 26, 10, 26, 1, 0)_{29382}$$

$$\ell_{730} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^5 \\ 0 & 1 & 1 & \eta^{27} \end{array}\right]_{169473} = \left[\begin{array}{cccc} 1 & 0 & 0 & 5 \\ 0 & 1 & 1 & 11 \end{array}\right]_{169473} = \mathbf{Pl}(21,26,16,26,1,0)_{29568}$$

$$\ell_{731} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{10} \\ 0 & 1 & 1 & \eta \end{array}\right]_{575073} = \left[\begin{array}{cccc} 1 & 0 & 0 & 17 \\ 0 & 1 & 1 & 2 \end{array}\right]_{575073} = \mathbf{Pl}(21,26,18,26,1,0)_{29630}$$

$$\ell_{732} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^6 \\ 0 & 1 & 1 & \eta^{28} \end{array}\right]_{338945} = \left[\begin{array}{cccc} 1 & 0 & 0 & 10 \\ 0 & 1 & 1 & 22 \end{array}\right]_{338945} = \mathbf{Pl}(21,26,8,26,1,0)_{29320}$$

$$\ell_{733} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{22} \\ 0 & 1 & 1 & \eta^{13} \end{array}\right]_{711201} = \left[\begin{array}{cccc} 1 & 0 & 0 & 21 \\ 0 & 1 & 1 & 28 \end{array}\right]_{711201} = \mathbf{Pl}(21,26,3,26,1,0)_{29165}$$

$$\ell_{734} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{15} \\ 0 & 1 & 1 & \eta^6 \end{array}\right]_{1048865} = \left[\begin{array}{cccc} 1 & 0 & 0 & 31 \\ 0 & 1 & 1 & 10 \end{array}\right]_{1048865} = \mathbf{Pl}(21,26,25,26,1,0)_{29847}$$

$$\ell_{735} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{18} \\ 0 & 1 & 1 & \eta^9 \end{array}\right]_{102305} = \left[\begin{array}{cccc} 1 & 0 & 0 & 3 \\ 0 & 1 & 1 & 26 \end{array}\right]_{102305} = \mathbf{Pl}(21,26,21,26,1,0)_{29723}$$

$$\ell_{736} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{17} \\ 0 & 1 & 1 & \eta^8 \end{array}\right]_{643073} = \left[\begin{array}{cccc} 1 & 0 & 0 & 19 \\ 0 & 1 & 1 & 13 \end{array}\right]_{643073} = \mathbf{Pl}(21,26,15,26,1,0)_{29537}$$

$$\ell_{737} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^7 \\ 0 & 1 & 1 & \eta^{29} \end{array}\right]_{676769} = \left[\begin{array}{cccc} 1 & 0 & 0 & 20 \\ 0 & 1 & 1 & 9 \end{array}\right]_{676769} = \mathbf{Pl}(21,26,4,26,1,0)_{29196}$$

$$\ell_{738} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{16} \\ 0 & 1 & 1 & \eta^7 \end{array}\right]_{913889} = \left[\begin{array}{cccc} 1 & 0 & 0 & 27 \\ 0 & 1 & 1 & 20 \end{array}\right]_{913889} = \mathbf{Pl}(21,26,30,26,1,0)_{30002}$$

$$\ell_{739} = \left[\begin{array}{cccc} 1 & \eta^3 & \eta^3 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{280104} = \left[\begin{array}{cccc} 1 & 8 & 8 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{280104} = \mathbf{Pl}(0,8,0,8,1,0)_{3585}$$

$$\ell_{740} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^5 \\ 0 & 1 & 1 & \eta^2 \end{array}\right]_{169249} = \left[\begin{array}{cccc} 1 & 0 & 0 & 5 \\ 0 & 1 & 1 & 4 \end{array}\right]_{169249} = \mathbf{Pl}(22,8,9,8,1,0)_{12054}$$

$$\ell_{741} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & \eta^{28} \end{array}\right]_{34529} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 22 \end{array}\right]_{34529} = \mathbf{Pl}(22,8,8,8,1,0)_{12023}$$

$$\ell_{742} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{30} \\ 0 & 1 & 1 & \eta^{27} \end{array}\right]_{609185} = \left[\begin{array}{cccc} 1 & 0 & 0 & 18 \\ 0 & 1 & 1 & 11 \end{array}\right]_{609185} = \mathbf{Pl}(22,8,16,8,1,0)_{12271}$$

$$\ell_{743} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{13} \\ 0 & 1 & 1 & \eta^{10} \end{array}\right]_{947617} = \left[\begin{array}{cccc} 1 & 0 & 0 & 28 \\ 0 & 1 & 1 & 17 \end{array}\right]_{947617} = \mathbf{Pl}(22,8,24,8,1,0)_{12519}$$

$$\ell_{744} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{29} \\ 0 & 1 & 1 & \eta^{26} \end{array}\right]_{305153} = \left[\begin{array}{cccc} 1 & 0 & 0 & 9 \\ 0 & 1 & 1 & 23 \end{array}\right]_{305153} = \mathbf{Pl}(22,8,5,8,1,0)_{11930}$$

$$\ell_{745} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{26} \\ 0 & 1 & 1 & \eta^{23} \end{array}\right]_{778433} = \left[\begin{array}{cccc} 1 & 0 & 0 & 23 \\ 0 & 1 & 1 & 15 \end{array}\right]_{778433} = \mathbf{Pl}(22,8,13,8,1,0)_{12178}$$

$$\ell_{746} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{12} \\ 0 & 1 & 1 & \eta^9 \end{array}\right]_{474369} = \left[\begin{array}{cccc} 1 & 0 & 0 & 14 \\ 0 & 1 & 1 & 26 \end{array}\right]_{474369} = \mathbf{Pl}(22,8,21,8,1,0)_{12426}$$

$$\ell_{747} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{20} \\ 0 & 1 & 1 & \eta^{17} \end{array}\right]_{406497} = \left[\begin{array}{cccc} 1 & 0 & 0 & 12 \\ 0 & 1 & 1 & 19 \end{array}\right]_{406497} = \mathbf{Pl}(22,8,29,8,1,0)_{12674}$$

$$\ell_{748} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{28} \\ 0 & 1 & 1 & \eta^{25} \end{array}\right]_{744929} = \left[\begin{array}{cccc} 1 & 0 & 0 & 22 \\ 0 & 1 & 1 & 25 \end{array}\right]_{744929} = \mathbf{Pl}(22,8,10,8,1,0)_{12085}$$

$$\ell_{749} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^2 \\ 0 & 1 & 1 & \eta^{30} \end{array}\right]_{135873} = \left[\begin{array}{cccc} 1 & 0 & 0 & 4 \\ 0 & 1 & 1 & 18 \end{array}\right]_{135873} = \mathbf{Pl}(22,8,2,8,1,0)_{11837}$$

$$\ell_{750} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{25} \\ 0 & 1 & 1 & \eta^{22} \end{array}\right]_{846273} = \left[\begin{array}{cccc} 1 & 0 & 0 & 25 \\ 0 & 1 & 1 & 21 \end{array}\right]_{846273} = \mathbf{Pl}(22,8,26,8,1,0)_{12581}$$

$$\ell_{751} = \begin{bmatrix} 1 & 0 & 0 & \eta^4 \\ 0 & 1 & 1 & \eta \end{bmatrix}_{541249} = \begin{bmatrix} 1 & 0 & 0 & 16 \\ 0 & 1 & 1 & 2 \end{bmatrix}_{541249} = \mathbf{Pl}(22, 8, 18, 8, 1, 0)_{12333}$$

$$\ell_{752} = \begin{bmatrix} 1 & 0 & 0 & \eta^{11} \\ 0 & 1 & 1 & \eta^8 \end{bmatrix}_{237185} = \begin{bmatrix} 1 & 0 & 0 & 7 \\ 0 & 1 & 1 & 13 \end{bmatrix}_{237185} = \mathbf{Pl}(22, 8, 15, 8, 1, 0)_{12240}$$

$$\ell_{753} = \begin{bmatrix} 1 & 0 & 0 & \eta^{23} \\ 0 & 1 & 1 & \eta^{20} \end{bmatrix}_{507745} = \begin{bmatrix} 1 & 0 & 0 & 15 \\ 0 & 1 & 1 & 12 \end{bmatrix}_{507745} = \mathbf{Pl}(22, 8, 7, 8, 1, 0)_{11992}$$

$$\ell_{754} = \begin{bmatrix} 1 & 0 & 0 & \eta^{19} \\ 0 & 1 & 1 & \eta^{16} \end{bmatrix}_{203809} = \begin{bmatrix} 1 & 0 & 0 & 6 \\ 0 & 1 & 1 & 27 \end{bmatrix}_{203809} = \mathbf{Pl}(22, 8, 31, 8, 1, 0)_{12736}$$

$$\ell_{755} = \begin{bmatrix} 1 & 0 & 0 & \eta^8 \\ 0 & 1 & 1 & \eta^5 \end{bmatrix}_{439873} = \begin{bmatrix} 1 & 0 & 0 & 13 \\ 0 & 1 & 1 & 5 \end{bmatrix}_{439873} = \mathbf{Pl}(22, 8, 23, 8, 1, 0)_{12488}$$

$$\ell_{756} = \begin{bmatrix} 1 & 0 & 0 & \eta^{27} \\ 0 & 1 & 1 & \eta^{24} \end{bmatrix}_{373025} = \begin{bmatrix} 1 & 0 & 0 & 11 \\ 0 & 1 & 1 & 30 \end{bmatrix}_{373025} = \mathbf{Pl}(22, 8, 20, 8, 1, 0)_{12395}$$

$$\ell_{757} = \begin{bmatrix} 1 & 0 & 0 & \eta^{21} \\ 0 & 1 & 1 & \eta^{18} \end{bmatrix}_{811873} = \begin{bmatrix} 1 & 0 & 0 & 24 \\ 0 & 1 & 1 & 3 \end{bmatrix}_{811873} = \mathbf{Pl}(22, 8, 28, 8, 1, 0)_{12643}$$

$$\ell_{758} = \begin{bmatrix} 1 & 0 & 0 & \eta \\ 0 & 1 & 1 & \eta^{29} \end{bmatrix}_{67937} = \begin{bmatrix} 1 & 0 & 0 & 2 \\ 0 & 1 & 1 & 9 \end{bmatrix}_{67937} = \mathbf{Pl}(22, 8, 4, 8, 1, 0)_{11899}$$

$$\ell_{759} = \begin{bmatrix} 1 & 0 & 0 & \eta^{14} \\ 0 & 1 & 1 & \eta^{11} \end{bmatrix}_{981121} = \begin{bmatrix} 1 & 0 & 0 & 29 \\ 0 & 1 & 1 & 7 \end{bmatrix}_{981121} = \mathbf{Pl}(22, 8, 12, 8, 1, 0)_{12147}$$

$$\ell_{760} = \begin{bmatrix} 1 & 0 & 0 & \eta^{24} \\ 0 & 1 & 1 & \eta^{21} \end{bmatrix}_{1015489} = \begin{bmatrix} 1 & 0 & 0 & 30 \\ 0 & 1 & 1 & 24 \end{bmatrix}_{1015489} = \mathbf{Pl}(22, 8, 17, 8, 1, 0)_{12302}$$

$$\ell_{761} = \begin{bmatrix} 1 & 0 & 0 & \eta^9 \\ 0 & 1 & 1 & \eta^6 \end{bmatrix}_{879745} = \begin{bmatrix} 1 & 0 & 0 & 26 \\ 0 & 1 & 1 & 10 \end{bmatrix}_{879745} = \mathbf{Pl}(22, 8, 25, 8, 1, 0)_{12550}$$

$$\ell_{762} = \begin{bmatrix} 1 & 0 & 0 & \eta^3 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{270625} = \begin{bmatrix} 1 & 0 & 0 & 8 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{270625} = \mathbf{Pl}(22, 8, 1, 8, 1, 0)_{11806}$$

$$\ell_{763} = \begin{bmatrix} 1 & 0 & 0 & \eta^{10} \\ 0 & 1 & 1 & \eta^7 \end{bmatrix}_{575649} = \begin{bmatrix} 1 & 0 & 0 & 17 \\ 0 & 1 & 1 & 20 \end{bmatrix}_{575649} = \mathbf{Pl}(22, 8, 30, 8, 1, 0)_{12705}$$

$$\ell_{764} = \begin{bmatrix} 1 & 0 & 0 & \eta^6 \\ 0 & 1 & 1 & \eta^3 \end{bmatrix}_{338497} = \begin{bmatrix} 1 & 0 & 0 & 10 \\ 0 & 1 & 1 & 8 \end{bmatrix}_{338497} = \mathbf{Pl}(22, 8, 22, 8, 1, 0)_{12457}$$

$$\ell_{765} = \begin{bmatrix} 1 & 0 & 0 & \eta^{22} \\ 0 & 1 & 1 & \eta^{19} \end{bmatrix}_{710497} = \begin{bmatrix} 1 & 0 & 0 & 21 \\ 0 & 1 & 1 & 6 \end{bmatrix}_{710497} = \mathbf{Pl}(22, 8, 14, 8, 1, 0)_{12209}$$

$$\ell_{766} = \begin{bmatrix} 1 & 0 & 0 & \eta^{15} \\ 0 & 1 & 1 & \eta^{12} \end{bmatrix}_{1048993} = \begin{bmatrix} 1 & 0 & 0 & 31 \\ 0 & 1 & 1 & 14 \end{bmatrix}_{1048993} = \mathbf{Pl}(22, 8, 6, 8, 1, 0)_{11961}$$

$$\ell_{767} = \begin{bmatrix} 1 & 0 & 0 & \eta^{18} \\ 0 & 1 & 1 & \eta^{15} \end{bmatrix}_{102465} = \begin{bmatrix} 1 & 0 & 0 & 3 \\ 0 & 1 & 1 & 31 \end{bmatrix}_{102465} = \mathbf{Pl}(22, 8, 27, 8, 1, 0)_{12612}$$

$$\ell_{768} = \begin{bmatrix} 1 & 0 & 0 & \eta^{17} \\ 0 & 1 & 1 & \eta^{14} \end{bmatrix}_{643585} = \begin{bmatrix} 1 & 0 & 0 & 19 \\ 0 & 1 & 1 & 29 \end{bmatrix}_{643585} = \mathbf{Pl}(22, 8, 19, 8, 1, 0)_{12364}$$

$$\ell_{769} = \begin{bmatrix} 1 & 0 & 0 & \eta^7 \\ 0 & 1 & 1 & \eta^4 \end{bmatrix}_{676993} = \begin{bmatrix} 1 & 0 & 0 & 20 \\ 0 & 1 & 1 & 16 \end{bmatrix}_{676993} = \mathbf{Pl}(22, 8, 11, 8, 1, 0)_{12116}$$

$$\ell_{770} = \begin{bmatrix} 1 & 0 & 0 & \eta^{16} \\ 0 & 1 & 1 & \eta^{13} \end{bmatrix}_{914145} = \begin{bmatrix} 1 & 0 & 0 & 27 \\ 0 & 1 & 1 & 28 \end{bmatrix}_{914145} = \mathbf{Pl}(22, 8, 3, 8, 1, 0)_{11868}$$

$$\ell_{771} = \begin{bmatrix} 1 & \eta^5 & \eta^5 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{175461} = \begin{bmatrix} 1 & 5 & 5 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{175461} = \mathbf{Pl}(0, 5, 0, 5, 1, 0)_{3393}$$

$$\ell_{772} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^3 \\ 0 & 1 & 1 & \eta^{29} \end{array}\right]_{270881} = \left[\begin{array}{cccc} 1 & 0 & 0 & 8 \\ 0 & 1 & 1 & 9 \end{array}\right]_{270881} = \mathbf{Pl}(23,5,4,5,1,0)_{9017}$$

$$\ell_{773} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & \eta^{26} \end{array}\right]_{34561} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 23 \end{array}\right]_{34561} = \mathbf{Pl}(23,5,5,5,1,0)_{9048}$$

$$\ell_{774} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{30} \\ 0 & 1 & 1 & \eta^{25} \end{array}\right]_{609633} = \left[\begin{array}{cccc} 1 & 0 & 0 & 18 \\ 0 & 1 & 1 & 25 \end{array}\right]_{609633} = \mathbf{Pl}(23,5,10,5,1,0)_{9203}$$

$$\ell_{775} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{13} \\ 0 & 1 & 1 & \eta^{8} \end{array}\right]_{947489} = \left[\begin{array}{cccc} 1 & 0 & 0 & 28 \\ 0 & 1 & 1 & 13 \end{array}\right]_{947489} = \mathbf{Pl}(23,5,15,5,1,0)_{9358}$$

$$\ell_{776} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{29} \\ 0 & 1 & 1 & \eta^{24} \end{array}\right]_{305377} = \left[\begin{array}{cccc} 1 & 0 & 0 & 9 \\ 0 & 1 & 1 & 30 \end{array}\right]_{305377} = \mathbf{Pl}(23,5,20,5,1,0)_{9513}$$

$$\ell_{777} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{26} \\ 0 & 1 & 1 & \eta^{21} \end{array}\right]_{778721} = \left[\begin{array}{cccc} 1 & 0 & 0 & 23 \\ 0 & 1 & 1 & 24 \end{array}\right]_{778721} = \mathbf{Pl}(23,5,17,5,1,0)_{9420}$$

$$\ell_{778} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{12} \\ 0 & 1 & 1 & \eta^{7} \end{array}\right]_{474177} = \left[\begin{array}{cccc} 1 & 0 & 0 & 14 \\ 0 & 1 & 1 & 20 \end{array}\right]_{474177} = \mathbf{Pl}(23,5,30,5,1,0)_{9823}$$

$$\ell_{779} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{20} \\ 0 & 1 & 1 & \eta^{15} \end{array}\right]_{406881} = \left[\begin{array}{cccc} 1 & 0 & 0 & 12 \\ 0 & 1 & 1 & 31 \end{array}\right]_{406881} = \mathbf{Pl}(23,5,27,5,1,0)_{9730}$$

$$\ell_{780} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{28} \\ 0 & 1 & 1 & \eta^{23} \end{array}\right]_{744609} = \left[\begin{array}{cccc} 1 & 0 & 0 & 22 \\ 0 & 1 & 1 & 15 \end{array}\right]_{744609} = \mathbf{Pl}(23,5,13,5,1,0)_{9296}$$

$$\ell_{781} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{2} \\ 0 & 1 & 1 & \eta^{28} \end{array}\right]_{136001} = \left[\begin{array}{cccc} 1 & 0 & 0 & 4 \\ 0 & 1 & 1 & 22 \end{array}\right]_{136001} = \mathbf{Pl}(23,5,8,5,1,0)_{9141}$$

$$\ell_{782} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{25} \\ 0 & 1 & 1 & \eta^{20} \end{array}\right]_{845985} = \left[\begin{array}{cccc} 1 & 0 & 0 & 25 \\ 0 & 1 & 1 & 12 \end{array}\right]_{845985} = \mathbf{Pl}(23,5,7,5,1,0)_{9110}$$

$$\ell_{783} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{4} \\ 0 & 1 & 1 & \eta^{30} \end{array}\right]_{541761} = \left[\begin{array}{cccc} 1 & 0 & 0 & 16 \\ 0 & 1 & 1 & 18 \end{array}\right]_{541761} = \mathbf{Pl}(23,5,2,5,1,0)_{8955}$$

$$\ell_{784} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{11} \\ 0 & 1 & 1 & \eta^{6} \end{array}\right]_{237089} = \left[\begin{array}{cccc} 1 & 0 & 0 & 7 \\ 0 & 1 & 1 & 10 \end{array}\right]_{237089} = \mathbf{Pl}(23,5,25,5,1,0)_{9668}$$

$$\ell_{785} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{23} \\ 0 & 1 & 1 & \eta^{18} \end{array}\right]_{507457} = \left[\begin{array}{cccc} 1 & 0 & 0 & 15 \\ 0 & 1 & 1 & 3 \end{array}\right]_{507457} = \mathbf{Pl}(23,5,28,5,1,0)_{9761}$$

$$\ell_{786} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{19} \\ 0 & 1 & 1 & \eta^{14} \end{array}\right]_{203873} = \left[\begin{array}{cccc} 1 & 0 & 0 & 6 \\ 0 & 1 & 1 & 29 \end{array}\right]_{203873} = \mathbf{Pl}(23,5,19,5,1,0)_{9482}$$

$$\ell_{787} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{8} \\ 0 & 1 & 1 & \eta^{3} \end{array}\right]_{439969} = \left[\begin{array}{cccc} 1 & 0 & 0 & 13 \\ 0 & 1 & 1 & 8 \end{array}\right]_{439969} = \mathbf{Pl}(23,5,22,5,1,0)_{9575}$$

$$\ell_{788} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{27} \\ 0 & 1 & 1 & \eta^{22} \end{array}\right]_{372737} = \left[\begin{array}{cccc} 1 & 0 & 0 & 11 \\ 0 & 1 & 1 & 21 \end{array}\right]_{372737} = \mathbf{Pl}(23,5,26,5,1,0)_{9699}$$

$$\ell_{789} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{21} \\ 0 & 1 & 1 & \eta^{16} \end{array}\right]_{812641} = \left[\begin{array}{cccc} 1 & 0 & 0 & 24 \\ 0 & 1 & 1 & 27 \end{array}\right]_{812641} = \mathbf{Pl}(23,5,31,5,1,0)_{9854}$$

$$\ell_{790} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta \\ 0 & 1 & 1 & \eta^{27} \end{array}\right]_{68001} = \left[\begin{array}{cccc} 1 & 0 & 0 & 2 \\ 0 & 1 & 1 & 11 \end{array}\right]_{68001} = \mathbf{Pl}(23,5,16,5,1,0)_{9389}$$

$$\ell_{791} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{14} \\ 0 & 1 & 1 & \eta^{9} \end{array}\right]_{981729} = \left[\begin{array}{cccc} 1 & 0 & 0 & 29 \\ 0 & 1 & 1 & 26 \end{array}\right]_{981729} = \mathbf{Pl}(23,5,21,5,1,0)_{9544}$$

$$\ell_{792} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{24} \\ 0 & 1 & 1 & \eta^{19} \end{array}\right]_{1014913} = \left[\begin{array}{cccc} 1 & 0 & 0 & 30 \\ 0 & 1 & 1 & 6 \end{array}\right]_{1014913} = \mathbf{Pl}(23,5,14,5,1,0)_{9327}$$

$$\ell_{793} = \begin{bmatrix} 1 & 0 & 0 & \eta^9 \\ 0 & 1 & 1 & \eta^4 \end{bmatrix}_{879937} = \begin{bmatrix} 1 & 0 & 0 & 26 \\ 0 & 1 & 1 & 16 \end{bmatrix}_{879937} = \mathbf{Pl}(23,5,11,5,1,0)_{9234}$$

$$\ell_{794} = \begin{bmatrix} 1 & 0 & 0 & \eta^5 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{169153} = \begin{bmatrix} 1 & 0 & 0 & 5 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{169153} = \mathbf{Pl}(23,5,1,5,1,0)_{8924}$$

$$\ell_{795} = \begin{bmatrix} 1 & 0 & 0 & \eta^{10} \\ 0 & 1 & 1 & \eta^5 \end{bmatrix}_{575169} = \begin{bmatrix} 1 & 0 & 0 & 17 \\ 0 & 1 & 1 & 5 \end{bmatrix}_{575169} = \mathbf{Pl}(23,5,23,5,1,0)_{9606}$$

$$\ell_{796} = \begin{bmatrix} 1 & 0 & 0 & \eta^6 \\ 0 & 1 & 1 & \eta \end{bmatrix}_{338305} = \begin{bmatrix} 1 & 0 & 0 & 10 \\ 0 & 1 & 1 & 2 \end{bmatrix}_{338305} = \mathbf{Pl}(23,5,18,5,1,0)_{9451}$$

$$\ell_{797} = \begin{bmatrix} 1 & 0 & 0 & \eta^{22} \\ 0 & 1 & 1 & \eta^{17} \end{bmatrix}_{710913} = \begin{bmatrix} 1 & 0 & 0 & 21 \\ 0 & 1 & 1 & 19 \end{bmatrix}_{710913} = \mathbf{Pl}(23,5,29,5,1,0)_{9792}$$

$$\ell_{798} = \begin{bmatrix} 1 & 0 & 0 & \eta^{15} \\ 0 & 1 & 1 & \eta^{10} \end{bmatrix}_{1049089} = \begin{bmatrix} 1 & 0 & 0 & 31 \\ 0 & 1 & 1 & 17 \end{bmatrix}_{1049089} = \mathbf{Pl}(23,5,24,5,1,0)_{9637}$$

$$\ell_{799} = \begin{bmatrix} 1 & 0 & 0 & \eta^{18} \\ 0 & 1 & 1 & \eta^{13} \end{bmatrix}_{102369} = \begin{bmatrix} 1 & 0 & 0 & 3 \\ 0 & 1 & 1 & 28 \end{bmatrix}_{102369} = \mathbf{Pl}(23,5,3,5,1,0)_{8986}$$

$$\ell_{800} = \begin{bmatrix} 1 & 0 & 0 & \eta^{17} \\ 0 & 1 & 1 & \eta^{12} \end{bmatrix}_{643105} = \begin{bmatrix} 1 & 0 & 0 & 19 \\ 0 & 1 & 1 & 14 \end{bmatrix}_{643105} = \mathbf{Pl}(23,5,6,5,1,0)_{9079}$$

$$\ell_{801} = \begin{bmatrix} 1 & 0 & 0 & \eta^7 \\ 0 & 1 & 1 & \eta^2 \end{bmatrix}_{676609} = \begin{bmatrix} 1 & 0 & 0 & 20 \\ 0 & 1 & 1 & 4 \end{bmatrix}_{676609} = \mathbf{Pl}(23,5,9,5,1,0)_{9172}$$

$$\ell_{802} = \begin{bmatrix} 1 & 0 & 0 & \eta^{16} \\ 0 & 1 & 1 & \eta^{11} \end{bmatrix}_{913473} = \begin{bmatrix} 1 & 0 & 0 & 27 \\ 0 & 1 & 1 & 7 \end{bmatrix}_{913473} = \mathbf{Pl}(23,5,12,5,1,0)_{9265}$$

$$\ell_{803} = \begin{bmatrix} 1 & \eta^{10} & \eta^{10} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{594033} = \begin{bmatrix} 1 & 17 & 17 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{594033} = \mathbf{Pl}(0,17,0,17,1,0)_{4161}$$

$$\ell_{804} = \begin{bmatrix} 1 & 0 & 0 & \eta^6 \\ 0 & 1 & 1 & \eta^{27} \end{bmatrix}_{338593} = \begin{bmatrix} 1 & 0 & 0 & 10 \\ 0 & 1 & 1 & 11 \end{bmatrix}_{338593} = \mathbf{Pl}(24,17,16,17,1,0)_{20922}$$

$$\ell_{805} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & \eta^{21} \end{bmatrix}_{34593} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 24 \end{bmatrix}_{34593} = \mathbf{Pl}(24,17,17,17,1,0)_{20953}$$

$$\ell_{806} = \begin{bmatrix} 1 & 0 & 0 & \eta^{30} \\ 0 & 1 & 1 & \eta^{20} \end{bmatrix}_{609217} = \begin{bmatrix} 1 & 0 & 0 & 18 \\ 0 & 1 & 1 & 12 \end{bmatrix}_{609217} = \mathbf{Pl}(24,17,7,17,1,0)_{20643}$$

$$\ell_{807} = \begin{bmatrix} 1 & 0 & 0 & \eta^{13} \\ 0 & 1 & 1 & \eta^3 \end{bmatrix}_{947329} = \begin{bmatrix} 1 & 0 & 0 & 28 \\ 0 & 1 & 1 & 8 \end{bmatrix}_{947329} = \mathbf{Pl}(24,17,22,17,1,0)_{21108}$$

$$\ell_{808} = \begin{bmatrix} 1 & 0 & 0 & \eta^{29} \\ 0 & 1 & 1 & \eta^{19} \end{bmatrix}_{304609} = \begin{bmatrix} 1 & 0 & 0 & 9 \\ 0 & 1 & 1 & 6 \end{bmatrix}_{304609} = \mathbf{Pl}(24,17,14,17,1,0)_{20860}$$

$$\ell_{809} = \begin{bmatrix} 1 & 0 & 0 & \eta^{26} \\ 0 & 1 & 1 & \eta^{16} \end{bmatrix}_{778817} = \begin{bmatrix} 1 & 0 & 0 & 23 \\ 0 & 1 & 1 & 27 \end{bmatrix}_{778817} = \mathbf{Pl}(24,17,31,17,1,0)_{21387}$$

$$\ell_{810} = \begin{bmatrix} 1 & 0 & 0 & \eta^{12} \\ 0 & 1 & 1 & \eta^2 \end{bmatrix}_{473665} = \begin{bmatrix} 1 & 0 & 0 & 14 \\ 0 & 1 & 1 & 4 \end{bmatrix}_{473665} = \mathbf{Pl}(24,17,9,17,1,0)_{20705}$$

$$\ell_{811} = \begin{bmatrix} 1 & 0 & 0 & \eta^{20} \\ 0 & 1 & 1 & \eta^{10} \end{bmatrix}_{406433} = \begin{bmatrix} 1 & 0 & 0 & 12 \\ 0 & 1 & 1 & 17 \end{bmatrix}_{406433} = \mathbf{Pl}(24,17,24,17,1,0)_{21170}$$

$$\ell_{812} = \begin{bmatrix} 1 & 0 & 0 & \eta^{28} \\ 0 & 1 & 1 & \eta^{18} \end{bmatrix}_{744225} = \begin{bmatrix} 1 & 0 & 0 & 22 \\ 0 & 1 & 1 & 3 \end{bmatrix}_{744225} = \mathbf{Pl}(24,17,28,17,1,0)_{21294}$$

$$\ell_{813} = \begin{bmatrix} 1 & 0 & 0 & \eta^2 \\ 0 & 1 & 1 & \eta^{23} \end{bmatrix}_{135777} = \begin{bmatrix} 1 & 0 & 0 & 4 \\ 0 & 1 & 1 & 15 \end{bmatrix}_{135777} = \mathbf{Pl}(24,17,13,17,1,0)_{20829}$$

$$\ell_{814} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{25} \\ 0 & 1 & 1 & \eta^{15} \end{array}\right]_{846593} = \left[\begin{array}{cccc} 1 & 0 & 0 & 25 \\ 0 & 1 & 1 & 31 \end{array}\right]_{846593} = \mathbf{Pl}(24, 17, 27, 17, 1, 0)_{21263}$$

$$\ell_{815} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{4} \\ 0 & 1 & 1 & \eta^{25} \end{array}\right]_{541985} = \left[\begin{array}{cccc} 1 & 0 & 0 & 16 \\ 0 & 1 & 1 & 25 \end{array}\right]_{541985} = \mathbf{Pl}(24, 17, 10, 17, 1, 0)_{20736}$$

$$\ell_{816} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{11} \\ 0 & 1 & 1 & \eta \end{array}\right]_{236833} = \left[\begin{array}{cccc} 1 & 0 & 0 & 7 \\ 0 & 1 & 1 & 2 \end{array}\right]_{236833} = \mathbf{Pl}(24, 17, 18, 17, 1, 0)_{20984}$$

$$\ell_{817} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{23} \\ 0 & 1 & 1 & \eta^{13} \end{array}\right]_{508257} = \left[\begin{array}{cccc} 1 & 0 & 0 & 15 \\ 0 & 1 & 1 & 28 \end{array}\right]_{508257} = \mathbf{Pl}(24, 17, 3, 17, 1, 0)_{20519}$$

$$\ell_{818} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{19} \\ 0 & 1 & 1 & \eta^{9} \end{array}\right]_{203777} = \left[\begin{array}{cccc} 1 & 0 & 0 & 6 \\ 0 & 1 & 1 & 26 \end{array}\right]_{203777} = \mathbf{Pl}(24, 17, 21, 17, 1, 0)_{21077}$$

$$\ell_{819} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{8} \\ 0 & 1 & 1 & \eta^{29} \end{array}\right]_{440001} = \left[\begin{array}{cccc} 1 & 0 & 0 & 13 \\ 0 & 1 & 1 & 9 \end{array}\right]_{440001} = \mathbf{Pl}(24, 17, 4, 17, 1, 0)_{20550}$$

$$\ell_{820} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{27} \\ 0 & 1 & 1 & \eta^{17} \end{array}\right]_{372673} = \left[\begin{array}{cccc} 1 & 0 & 0 & 11 \\ 0 & 1 & 1 & 19 \end{array}\right]_{372673} = \mathbf{Pl}(24, 17, 29, 17, 1, 0)_{21325}$$

$$\ell_{821} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{21} \\ 0 & 1 & 1 & \eta^{11} \end{array}\right]_{812001} = \left[\begin{array}{cccc} 1 & 0 & 0 & 24 \\ 0 & 1 & 1 & 7 \end{array}\right]_{812001} = \mathbf{Pl}(24, 17, 12, 17, 1, 0)_{20798}$$

$$\ell_{822} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta \\ 0 & 1 & 1 & \eta^{22} \end{array}\right]_{68321} = \left[\begin{array}{cccc} 1 & 0 & 0 & 2 \\ 0 & 1 & 1 & 21 \end{array}\right]_{68321} = \mathbf{Pl}(24, 17, 26, 17, 1, 0)_{21232}$$

$$\ell_{823} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{14} \\ 0 & 1 & 1 & \eta^{4} \end{array}\right]_{981409} = \left[\begin{array}{cccc} 1 & 0 & 0 & 29 \\ 0 & 1 & 1 & 16 \end{array}\right]_{981409} = \mathbf{Pl}(24, 17, 11, 17, 1, 0)_{20767}$$

$$\ell_{824} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{24} \\ 0 & 1 & 1 & \eta^{14} \end{array}\right]_{1015649} = \left[\begin{array}{cccc} 1 & 0 & 0 & 30 \\ 0 & 1 & 1 & 29 \end{array}\right]_{1015649} = \mathbf{Pl}(24, 17, 19, 17, 1, 0)_{21015}$$

$$\ell_{825} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{9} \\ 0 & 1 & 1 & \eta^{30} \end{array}\right]_{880001} = \left[\begin{array}{cccc} 1 & 0 & 0 & 26 \\ 0 & 1 & 1 & 18 \end{array}\right]_{880001} = \mathbf{Pl}(24, 17, 2, 17, 1, 0)_{20488}$$

$$\ell_{826} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{3} \\ 0 & 1 & 1 & \eta^{24} \end{array}\right]_{271553} = \left[\begin{array}{cccc} 1 & 0 & 0 & 8 \\ 0 & 1 & 1 & 30 \end{array}\right]_{271553} = \mathbf{Pl}(24, 17, 20, 17, 1, 0)_{21046}$$

$$\ell_{827} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{5} \\ 0 & 1 & 1 & \eta^{26} \end{array}\right]_{169857} = \left[\begin{array}{cccc} 1 & 0 & 0 & 5 \\ 0 & 1 & 1 & 23 \end{array}\right]_{169857} = \mathbf{Pl}(24, 17, 5, 17, 1, 0)_{20581}$$

$$\ell_{828} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{10} \\ 0 & 1 & 1 & 1 \end{array}\right]_{575041} = \left[\begin{array}{cccc} 1 & 0 & 0 & 17 \\ 0 & 1 & 1 & 1 \end{array}\right]_{575041} = \mathbf{Pl}(24, 17, 1, 17, 1, 0)_{20457}$$

$$\ell_{829} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{22} \\ 0 & 1 & 1 & \eta^{12} \end{array}\right]_{710753} = \left[\begin{array}{cccc} 1 & 0 & 0 & 21 \\ 0 & 1 & 1 & 14 \end{array}\right]_{710753} = \mathbf{Pl}(24, 17, 6, 17, 1, 0)_{20612}$$

$$\ell_{830} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{15} \\ 0 & 1 & 1 & \eta^{5} \end{array}\right]_{1048705} = \left[\begin{array}{cccc} 1 & 0 & 0 & 31 \\ 0 & 1 & 1 & 5 \end{array}\right]_{1048705} = \mathbf{Pl}(24, 17, 23, 17, 1, 0)_{21139}$$

$$\ell_{831} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{18} \\ 0 & 1 & 1 & \eta^{8} \end{array}\right]_{101889} = \left[\begin{array}{cccc} 1 & 0 & 0 & 3 \\ 0 & 1 & 1 & 13 \end{array}\right]_{101889} = \mathbf{Pl}(24, 17, 15, 17, 1, 0)_{20891}$$

$$\ell_{832} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{17} \\ 0 & 1 & 1 & \eta^{7} \end{array}\right]_{643297} = \left[\begin{array}{cccc} 1 & 0 & 0 & 19 \\ 0 & 1 & 1 & 20 \end{array}\right]_{643297} = \mathbf{Pl}(24, 17, 30, 17, 1, 0)_{21356}$$

$$\ell_{833} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{7} \\ 0 & 1 & 1 & \eta^{28} \end{array}\right]_{677185} = \left[\begin{array}{cccc} 1 & 0 & 0 & 20 \\ 0 & 1 & 1 & 22 \end{array}\right]_{677185} = \mathbf{Pl}(24, 17, 8, 17, 1, 0)_{20674}$$

$$\ell_{834} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{16} \\ 0 & 1 & 1 & \eta^{6} \end{array}\right]_{913569} = \left[\begin{array}{cccc} 1 & 0 & 0 & 27 \\ 0 & 1 & 1 & 10 \end{array}\right]_{913569} = \mathbf{Pl}(24, 17, 25, 17, 1, 0)_{21201}$$

$$\ell_{835} = \left[\begin{array}{cccc} 1 & \eta^6 & \eta^6 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{349866} = \left[\begin{array}{cccc} 1 & 10 & 10 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{349866} = \mathbf{Pl}(0, 10, 0, 10, 1, 0)_{3713}$$

$$\ell_{836} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{10} \\ 0 & 1 & 1 & \eta^4 \end{array}\right]_{575521} = \left[\begin{array}{cccc} 1 & 0 & 0 & 17 \\ 0 & 1 & 1 & 16 \end{array}\right]_{575521} = \mathbf{Pl}(25, 10, 11, 10, 1, 0)_{14041}$$

$$\ell_{837} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & \eta^{25} \end{array}\right]_{34625} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 25 \end{array}\right]_{34625} = \mathbf{Pl}(25, 10, 10, 10, 1, 0)_{14010}$$

$$\ell_{838} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{30} \\ 0 & 1 & 1 & \eta^{24} \end{array}\right]_{609793} = \left[\begin{array}{cccc} 1 & 0 & 0 & 18 \\ 0 & 1 & 1 & 30 \end{array}\right]_{609793} = \mathbf{Pl}(25, 10, 20, 10, 1, 0)_{14320}$$

$$\ell_{839} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{13} \\ 0 & 1 & 1 & \eta^{7} \end{array}\right]_{947713} = \left[\begin{array}{cccc} 1 & 0 & 0 & 28 \\ 0 & 1 & 1 & 20 \end{array}\right]_{947713} = \mathbf{Pl}(25, 10, 30, 10, 1, 0)_{14630}$$

$$\ell_{840} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{29} \\ 0 & 1 & 1 & \eta^{23} \end{array}\right]_{304897} = \left[\begin{array}{cccc} 1 & 0 & 0 & 9 \\ 0 & 1 & 1 & 15 \end{array}\right]_{304897} = \mathbf{Pl}(25, 10, 13, 10, 1, 0)_{14103}$$

$$\ell_{841} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{26} \\ 0 & 1 & 1 & \eta^{20} \end{array}\right]_{778337} = \left[\begin{array}{cccc} 1 & 0 & 0 & 23 \\ 0 & 1 & 1 & 12 \end{array}\right]_{778337} = \mathbf{Pl}(25, 10, 7, 10, 1, 0)_{13917}$$

$$\ell_{842} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{12} \\ 0 & 1 & 1 & \eta^{6} \end{array}\right]_{473857} = \left[\begin{array}{cccc} 1 & 0 & 0 & 14 \\ 0 & 1 & 1 & 10 \end{array}\right]_{473857} = \mathbf{Pl}(25, 10, 25, 10, 1, 0)_{14475}$$

$$\ell_{843} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{20} \\ 0 & 1 & 1 & \eta^{14} \end{array}\right]_{406817} = \left[\begin{array}{cccc} 1 & 0 & 0 & 12 \\ 0 & 1 & 1 & 29 \end{array}\right]_{406817} = \mathbf{Pl}(25, 10, 19, 10, 1, 0)_{14289}$$

$$\ell_{844} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{28} \\ 0 & 1 & 1 & \eta^{22} \end{array}\right]_{744801} = \left[\begin{array}{cccc} 1 & 0 & 0 & 22 \\ 0 & 1 & 1 & 21 \end{array}\right]_{744801} = \mathbf{Pl}(25, 10, 26, 10, 1, 0)_{14506}$$

$$\ell_{845} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{2} \\ 0 & 1 & 1 & \eta^{27} \end{array}\right]_{135649} = \left[\begin{array}{cccc} 1 & 0 & 0 & 4 \\ 0 & 1 & 1 & 11 \end{array}\right]_{135649} = \mathbf{Pl}(25, 10, 16, 10, 1, 0)_{14196}$$

$$\ell_{846} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{25} \\ 0 & 1 & 1 & \eta^{19} \end{array}\right]_{845793} = \left[\begin{array}{cccc} 1 & 0 & 0 & 25 \\ 0 & 1 & 1 & 6 \end{array}\right]_{845793} = \mathbf{Pl}(25, 10, 14, 10, 1, 0)_{14134}$$

$$\ell_{847} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{4} \\ 0 & 1 & 1 & \eta^{29} \end{array}\right]_{541473} = \left[\begin{array}{cccc} 1 & 0 & 0 & 16 \\ 0 & 1 & 1 & 9 \end{array}\right]_{541473} = \mathbf{Pl}(25, 10, 4, 10, 1, 0)_{13824}$$

$$\ell_{848} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{11} \\ 0 & 1 & 1 & \eta^{5} \end{array}\right]_{236929} = \left[\begin{array}{cccc} 1 & 0 & 0 & 7 \\ 0 & 1 & 1 & 5 \end{array}\right]_{236929} = \mathbf{Pl}(25, 10, 23, 10, 1, 0)_{14413}$$

$$\ell_{849} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{23} \\ 0 & 1 & 1 & \eta^{17} \end{array}\right]_{507969} = \left[\begin{array}{cccc} 1 & 0 & 0 & 15 \\ 0 & 1 & 1 & 19 \end{array}\right]_{507969} = \mathbf{Pl}(25, 10, 29, 10, 1, 0)_{14599}$$

$$\ell_{850} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{19} \\ 0 & 1 & 1 & \eta^{13} \end{array}\right]_{203841} = \left[\begin{array}{cccc} 1 & 0 & 0 & 6 \\ 0 & 1 & 1 & 28 \end{array}\right]_{203841} = \mathbf{Pl}(25, 10, 3, 10, 1, 0)_{13793}$$

$$\ell_{851} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{8} \\ 0 & 1 & 1 & \eta^{2} \end{array}\right]_{439841} = \left[\begin{array}{cccc} 1 & 0 & 0 & 13 \\ 0 & 1 & 1 & 4 \end{array}\right]_{439841} = \mathbf{Pl}(25, 10, 9, 10, 1, 0)_{13979}$$

$$\ell_{852} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{27} \\ 0 & 1 & 1 & \eta^{21} \end{array}\right]_{372833} = \left[\begin{array}{cccc} 1 & 0 & 0 & 11 \\ 0 & 1 & 1 & 24 \end{array}\right]_{372833} = \mathbf{Pl}(25, 10, 17, 10, 1, 0)_{14227}$$

$$\ell_{853} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{21} \\ 0 & 1 & 1 & \eta^{15} \end{array}\right]_{812769} = \left[\begin{array}{cccc} 1 & 0 & 0 & 24 \\ 0 & 1 & 1 & 31 \end{array}\right]_{812769} = \mathbf{Pl}(25, 10, 27, 10, 1, 0)_{14537}$$

$$\ell_{854} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta \\ 0 & 1 & 1 & \eta^{26} \end{array}\right]_{68385} = \left[\begin{array}{cccc} 1 & 0 & 0 & 2 \\ 0 & 1 & 1 & 23 \end{array}\right]_{68385} = \mathbf{Pl}(25, 10, 5, 10, 1, 0)_{13855}$$

$$\ell_{855} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{14} \\ 0 & 1 & 1 & \eta^{8} \end{array}\right]_{981313} = \left[\begin{array}{cccc} 1 & 0 & 0 & 29 \\ 0 & 1 & 1 & 13 \end{array}\right]_{981313} = \mathbf{Pl}(25, 10, 15, 10, 1, 0)_{14165}$$

$$\ell_{856} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{24} \\ 0 & 1 & 1 & \eta^{18} \end{array} \right]_{1014817} = \left[\begin{array}{cccc} 1 & 0 & 0 & 30 \\ 0 & 1 & 1 & 3 \end{array} \right]_{1014817} = \mathbf{Pl}(25, 10, 28, 10, 1, 0)_{14568}$$

$$\ell_{857} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{9} \\ 0 & 1 & 1 & \eta^{3} \end{array} \right]_{879681} = \left[\begin{array}{cccc} 1 & 0 & 0 & 26 \\ 0 & 1 & 1 & 8 \end{array} \right]_{879681} = \mathbf{Pl}(25, 10, 22, 10, 1, 0)_{14382}$$

$$\ell_{858} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{3} \\ 0 & 1 & 1 & \eta^{28} \end{array} \right]_{271297} = \left[\begin{array}{cccc} 1 & 0 & 0 & 8 \\ 0 & 1 & 1 & 22 \end{array} \right]_{271297} = \mathbf{Pl}(25, 10, 8, 10, 1, 0)_{13948}$$

$$\ell_{859} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{5} \\ 0 & 1 & 1 & \eta^{30} \end{array} \right]_{169697} = \left[\begin{array}{cccc} 1 & 0 & 0 & 5 \\ 0 & 1 & 1 & 18 \end{array} \right]_{169697} = \mathbf{Pl}(25, 10, 2, 10, 1, 0)_{13762}$$

$$\ell_{860} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{6} \\ 0 & 1 & 1 & 1 \end{array} \right]_{338273} = \left[\begin{array}{cccc} 1 & 0 & 0 & 10 \\ 0 & 1 & 1 & 1 \end{array} \right]_{338273} = \mathbf{Pl}(25, 10, 1, 10, 1, 0)_{13731}$$

$$\ell_{861} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{22} \\ 0 & 1 & 1 & \eta^{16} \end{array} \right]_{711169} = \left[\begin{array}{cccc} 1 & 0 & 0 & 21 \\ 0 & 1 & 1 & 27 \end{array} \right]_{711169} = \mathbf{Pl}(25, 10, 31, 10, 1, 0)_{14661}$$

$$\ell_{862} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{15} \\ 0 & 1 & 1 & \eta^{9} \end{array} \right]_{1049377} = \left[\begin{array}{cccc} 1 & 0 & 0 & 31 \\ 0 & 1 & 1 & 26 \end{array} \right]_{1049377} = \mathbf{Pl}(25, 10, 21, 10, 1, 0)_{14351}$$

$$\ell_{863} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{18} \\ 0 & 1 & 1 & \eta^{12} \end{array} \right]_{101921} = \left[\begin{array}{cccc} 1 & 0 & 0 & 3 \\ 0 & 1 & 1 & 14 \end{array} \right]_{101921} = \mathbf{Pl}(25, 10, 6, 10, 1, 0)_{13886}$$

$$\ell_{864} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{17} \\ 0 & 1 & 1 & \eta^{11} \end{array} \right]_{642881} = \left[\begin{array}{cccc} 1 & 0 & 0 & 19 \\ 0 & 1 & 1 & 7 \end{array} \right]_{642881} = \mathbf{Pl}(25, 10, 12, 10, 1, 0)_{14072}$$

$$\ell_{865} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{7} \\ 0 & 1 & 1 & \eta \end{array} \right]_{676545} = \left[\begin{array}{cccc} 1 & 0 & 0 & 20 \\ 0 & 1 & 1 & 2 \end{array} \right]_{676545} = \mathbf{Pl}(25, 10, 18, 10, 1, 0)_{14258}$$

$$\ell_{866} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{16} \\ 0 & 1 & 1 & \eta^{10} \end{array} \right]_{913793} = \left[\begin{array}{cccc} 1 & 0 & 0 & 27 \\ 0 & 1 & 1 & 17 \end{array} \right]_{913793} = \mathbf{Pl}(25, 10, 24, 10, 1, 0)_{14444}$$

$$\ell_{867} = \left[\begin{array}{cccc} 1 & \eta^{22} & \eta^{22} & 0 \\ 0 & 0 & 0 & 1 \end{array} \right]_{733557} = \left[\begin{array}{cccc} 1 & 21 & 21 & 0 \\ 0 & 0 & 0 & 1 \end{array} \right]_{733557} = \mathbf{Pl}(0, 21, 0, 21, 1, 0)_{4417}$$

$$\ell_{868} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{15} \\ 0 & 1 & 1 & \eta^{24} \end{array} \right]_{1049505} = \left[\begin{array}{cccc} 1 & 0 & 0 & 31 \\ 0 & 1 & 1 & 30 \end{array} \right]_{1049505} = \mathbf{Pl}(26, 21, 20, 21, 1, 0)_{24892}$$

$$\ell_{869} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & \eta^{9} \end{array} \right]_{34657} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 26 \end{array} \right]_{34657} = \mathbf{Pl}(26, 21, 21, 21, 1, 0)_{24923}$$

$$\ell_{870} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{30} \\ 0 & 1 & 1 & \eta^{8} \end{array} \right]_{609249} = \left[\begin{array}{cccc} 1 & 0 & 0 & 18 \\ 0 & 1 & 1 & 13 \end{array} \right]_{609249} = \mathbf{Pl}(26, 21, 15, 21, 1, 0)_{24737}$$

$$\ell_{871} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{13} \\ 0 & 1 & 1 & \eta^{22} \end{array} \right]_{947745} = \left[\begin{array}{cccc} 1 & 0 & 0 & 28 \\ 0 & 1 & 1 & 21 \end{array} \right]_{947745} = \mathbf{Pl}(26, 21, 26, 21, 1, 0)_{25078}$$

$$\ell_{872} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{29} \\ 0 & 1 & 1 & \eta^{7} \end{array} \right]_{305057} = \left[\begin{array}{cccc} 1 & 0 & 0 & 9 \\ 0 & 1 & 1 & 20 \end{array} \right]_{305057} = \mathbf{Pl}(26, 21, 30, 21, 1, 0)_{25202}$$

$$\ell_{873} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{26} \\ 0 & 1 & 1 & \eta^{4} \end{array} \right]_{778465} = \left[\begin{array}{cccc} 1 & 0 & 0 & 23 \\ 0 & 1 & 1 & 16 \end{array} \right]_{778465} = \mathbf{Pl}(26, 21, 11, 21, 1, 0)_{24613}$$

$$\ell_{874} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{12} \\ 0 & 1 & 1 & \eta^{21} \end{array} \right]_{474305} = \left[\begin{array}{cccc} 1 & 0 & 0 & 14 \\ 0 & 1 & 1 & 24 \end{array} \right]_{474305} = \mathbf{Pl}(26, 21, 17, 21, 1, 0)_{24799}$$

$$\ell_{875} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{20} \\ 0 & 1 & 1 & \eta^{29} \end{array} \right]_{406177} = \left[\begin{array}{cccc} 1 & 0 & 0 & 12 \\ 0 & 1 & 1 & 9 \end{array} \right]_{406177} = \mathbf{Pl}(26, 21, 4, 21, 1, 0)_{24396}$$

$$\ell_{876} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{28} \\ 0 & 1 & 1 & \eta^{6} \end{array} \right]_{744449} = \left[\begin{array}{cccc} 1 & 0 & 0 & 22 \\ 0 & 1 & 1 & 10 \end{array} \right]_{744449} = \mathbf{Pl}(26, 21, 25, 21, 1, 0)_{25047}$$

$$\ell_{877} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^2 \\ 0 & 1 & 1 & \eta^{11} \end{array}\right]_{135521} = \left[\begin{array}{cccc} 1 & 0 & 0 & 4 \\ 0 & 1 & 1 & 7 \end{array}\right]_{135521} = \mathbf{Pl}(26,21,12,21,1,0)_{24644}$$

$$\ell_{878} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{25} \\ 0 & 1 & 1 & \eta^3 \end{array}\right]_{845857} = \left[\begin{array}{cccc} 1 & 0 & 0 & 25 \\ 0 & 1 & 1 & 8 \end{array}\right]_{845857} = \mathbf{Pl}(26,21,22,21,1,0)_{24954}$$

$$\ell_{879} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^4 \\ 0 & 1 & 1 & \eta^{13} \end{array}\right]_{542081} = \left[\begin{array}{cccc} 1 & 0 & 0 & 16 \\ 0 & 1 & 1 & 28 \end{array}\right]_{542081} = \mathbf{Pl}(26,21,3,21,1,0)_{24365}$$

$$\ell_{880} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{11} \\ 0 & 1 & 1 & \eta^{20} \end{array}\right]_{237153} = \left[\begin{array}{cccc} 1 & 0 & 0 & 7 \\ 0 & 1 & 1 & 12 \end{array}\right]_{237153} = \mathbf{Pl}(26,21,7,21,1,0)_{24489}$$

$$\ell_{881} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{23} \\ 0 & 1 & 1 & \eta \end{array}\right]_{507425} = \left[\begin{array}{cccc} 1 & 0 & 0 & 15 \\ 0 & 1 & 1 & 2 \end{array}\right]_{507425} = \mathbf{Pl}(26,21,18,21,1,0)_{24830}$$

$$\ell_{882} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{19} \\ 0 & 1 & 1 & \eta^{28} \end{array}\right]_{203649} = \left[\begin{array}{cccc} 1 & 0 & 0 & 6 \\ 0 & 1 & 1 & 22 \end{array}\right]_{203649} = \mathbf{Pl}(26,21,8,21,1,0)_{24520}$$

$$\ell_{883} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^8 \\ 0 & 1 & 1 & \eta^{17} \end{array}\right]_{440321} = \left[\begin{array}{cccc} 1 & 0 & 0 & 13 \\ 0 & 1 & 1 & 19 \end{array}\right]_{440321} = \mathbf{Pl}(26,21,29,21,1,0)_{25171}$$

$$\ell_{884} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{27} \\ 0 & 1 & 1 & \eta^5 \end{array}\right]_{372225} = \left[\begin{array}{cccc} 1 & 0 & 0 & 11 \\ 0 & 1 & 1 & 5 \end{array}\right]_{372225} = \mathbf{Pl}(26,21,23,21,1,0)_{24985}$$

$$\ell_{885} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{21} \\ 0 & 1 & 1 & \eta^{30} \end{array}\right]_{812353} = \left[\begin{array}{cccc} 1 & 0 & 0 & 24 \\ 0 & 1 & 1 & 18 \end{array}\right]_{812353} = \mathbf{Pl}(26,21,2,21,1,0)_{24334}$$

$$\ell_{886} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta \\ 0 & 1 & 1 & \eta^{10} \end{array}\right]_{68193} = \left[\begin{array}{cccc} 1 & 0 & 0 & 2 \\ 0 & 1 & 1 & 17 \end{array}\right]_{68193} = \mathbf{Pl}(26,21,24,21,1,0)_{25016}$$

$$\ell_{887} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{14} \\ 0 & 1 & 1 & \eta^{23} \end{array}\right]_{981377} = \left[\begin{array}{cccc} 1 & 0 & 0 & 29 \\ 0 & 1 & 1 & 15 \end{array}\right]_{981377} = \mathbf{Pl}(26,21,13,21,1,0)_{24675}$$

$$\ell_{888} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{24} \\ 0 & 1 & 1 & \eta^2 \end{array}\right]_{1014849} = \left[\begin{array}{cccc} 1 & 0 & 0 & 30 \\ 0 & 1 & 1 & 4 \end{array}\right]_{1014849} = \mathbf{Pl}(26,21,9,21,1,0)_{24551}$$

$$\ell_{889} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^9 \\ 0 & 1 & 1 & \eta^{18} \end{array}\right]_{879521} = \left[\begin{array}{cccc} 1 & 0 & 0 & 26 \\ 0 & 1 & 1 & 3 \end{array}\right]_{879521} = \mathbf{Pl}(26,21,28,21,1,0)_{25140}$$

$$\ell_{890} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^3 \\ 0 & 1 & 1 & \eta^{12} \end{array}\right]_{271041} = \left[\begin{array}{cccc} 1 & 0 & 0 & 8 \\ 0 & 1 & 1 & 14 \end{array}\right]_{271041} = \mathbf{Pl}(26,21,6,21,1,0)_{24458}$$

$$\ell_{891} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^5 \\ 0 & 1 & 1 & \eta^{14} \end{array}\right]_{170049} = \left[\begin{array}{cccc} 1 & 0 & 0 & 5 \\ 0 & 1 & 1 & 29 \end{array}\right]_{170049} = \mathbf{Pl}(26,21,19,21,1,0)_{24861}$$

$$\ell_{892} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{10} \\ 0 & 1 & 1 & \eta^{19} \end{array}\right]_{575201} = \left[\begin{array}{cccc} 1 & 0 & 0 & 17 \\ 0 & 1 & 1 & 6 \end{array}\right]_{575201} = \mathbf{Pl}(26,21,14,21,1,0)_{24706}$$

$$\ell_{893} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^6 \\ 0 & 1 & 1 & \eta^{15} \end{array}\right]_{339233} = \left[\begin{array}{cccc} 1 & 0 & 0 & 10 \\ 0 & 1 & 1 & 31 \end{array}\right]_{339233} = \mathbf{Pl}(26,21,27,21,1,0)_{25109}$$

$$\ell_{894} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{22} \\ 0 & 1 & 1 & 1 \end{array}\right]_{710337} = \left[\begin{array}{cccc} 1 & 0 & 0 & 21 \\ 0 & 1 & 1 & 1 \end{array}\right]_{710337} = \mathbf{Pl}(26,21,1,21,1,0)_{24303}$$

$$\ell_{895} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{18} \\ 0 & 1 & 1 & \eta^{27} \end{array}\right]_{101825} = \left[\begin{array}{cccc} 1 & 0 & 0 & 3 \\ 0 & 1 & 1 & 11 \end{array}\right]_{101825} = \mathbf{Pl}(26,21,16,21,1,0)_{24768}$$

$$\ell_{896} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{17} \\ 0 & 1 & 1 & \eta^{26} \end{array}\right]_{643393} = \left[\begin{array}{cccc} 1 & 0 & 0 & 19 \\ 0 & 1 & 1 & 23 \end{array}\right]_{643393} = \mathbf{Pl}(26,21,5,21,1,0)_{24427}$$

$$\ell_{897} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^7 \\ 0 & 1 & 1 & \eta^{16} \end{array}\right]_{677345} = \left[\begin{array}{cccc} 1 & 0 & 0 & 20 \\ 0 & 1 & 1 & 27 \end{array}\right]_{677345} = \mathbf{Pl}(26,21,31,21,1,0)_{25233}$$

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$$\ell_{898} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{16} \\ 0 & 1 & 1 & \eta^{25} \end{array}\right]_{914049} = \left[\begin{array}{cccc} 1 & 0 & 0 & 27 \\ 0 & 1 & 1 & 25 \end{array}\right]_{914049} = \mathbf{Pl}(26, 21, 10, 21, 1, 0)_{24582}$$

$$\ell_{899} = \left[\begin{array}{cccc} 1 & \eta^{15} & \eta^{15} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082367} = \left[\begin{array}{cccc} 1 & 31 & 31 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082367} = \mathbf{Pl}(0, 31, 0, 31, 1, 0)_{5057}$$

$$\ell_{900} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{22} \\ 0 & 1 & 1 & \eta^{7} \end{array}\right]_{710945} = \left[\begin{array}{cccc} 1 & 0 & 0 & 21 \\ 0 & 1 & 1 & 20 \end{array}\right]_{710945} = \mathbf{Pl}(27, 31, 30, 31, 1, 0)_{34813}$$

$$\ell_{901} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & \eta^{16} \end{array}\right]_{34689} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 27 \end{array}\right]_{34689} = \mathbf{Pl}(27, 31, 31, 31, 1, 0)_{34844}$$

$$\ell_{902} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{30} \\ 0 & 1 & 1 & \eta^{15} \end{array}\right]_{609825} = \left[\begin{array}{cccc} 1 & 0 & 0 & 18 \\ 0 & 1 & 1 & 31 \end{array}\right]_{609825} = \mathbf{Pl}(27, 31, 27, 31, 1, 0)_{34720}$$

$$\ell_{903} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{13} \\ 0 & 1 & 1 & \eta^{29} \end{array}\right]_{947361} = \left[\begin{array}{cccc} 1 & 0 & 0 & 28 \\ 0 & 1 & 1 & 9 \end{array}\right]_{947361} = \mathbf{Pl}(27, 31, 4, 31, 1, 0)_{34007}$$

$$\ell_{904} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{29} \\ 0 & 1 & 1 & \eta^{14} \end{array}\right]_{305345} = \left[\begin{array}{cccc} 1 & 0 & 0 & 9 \\ 0 & 1 & 1 & 29 \end{array}\right]_{305345} = \mathbf{Pl}(27, 31, 19, 31, 1, 0)_{34472}$$

$$\ell_{905} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{26} \\ 0 & 1 & 1 & \eta^{11} \end{array}\right]_{778177} = \left[\begin{array}{cccc} 1 & 0 & 0 & 23 \\ 0 & 1 & 1 & 7 \end{array}\right]_{778177} = \mathbf{Pl}(27, 31, 12, 31, 1, 0)_{34255}$$

$$\ell_{906} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{12} \\ 0 & 1 & 1 & \eta^{28} \end{array}\right]_{474241} = \left[\begin{array}{cccc} 1 & 0 & 0 & 14 \\ 0 & 1 & 1 & 22 \end{array}\right]_{474241} = \mathbf{Pl}(27, 31, 8, 31, 1, 0)_{34131}$$

$$\ell_{907} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{20} \\ 0 & 1 & 1 & \eta^{5} \end{array}\right]_{406049} = \left[\begin{array}{cccc} 1 & 0 & 0 & 12 \\ 0 & 1 & 1 & 5 \end{array}\right]_{406049} = \mathbf{Pl}(27, 31, 23, 31, 1, 0)_{34596}$$

$$\ell_{908} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{28} \\ 0 & 1 & 1 & \eta^{13} \end{array}\right]_{745025} = \left[\begin{array}{cccc} 1 & 0 & 0 & 22 \\ 0 & 1 & 1 & 28 \end{array}\right]_{745025} = \mathbf{Pl}(27, 31, 3, 31, 1, 0)_{33976}$$

$$\ell_{909} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{2} \\ 0 & 1 & 1 & \eta^{18} \end{array}\right]_{135393} = \left[\begin{array}{cccc} 1 & 0 & 0 & 4 \\ 0 & 1 & 1 & 3 \end{array}\right]_{135393} = \mathbf{Pl}(27, 31, 28, 31, 1, 0)_{34751}$$

$$\ell_{910} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{25} \\ 0 & 1 & 1 & \eta^{10} \end{array}\right]_{846145} = \left[\begin{array}{cccc} 1 & 0 & 0 & 25 \\ 0 & 1 & 1 & 17 \end{array}\right]_{846145} = \mathbf{Pl}(27, 31, 24, 31, 1, 0)_{34627}$$

$$\ell_{911} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{4} \\ 0 & 1 & 1 & \eta^{20} \end{array}\right]_{541569} = \left[\begin{array}{cccc} 1 & 0 & 0 & 16 \\ 0 & 1 & 1 & 12 \end{array}\right]_{541569} = \mathbf{Pl}(27, 31, 7, 31, 1, 0)_{34100}$$

$$\ell_{912} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{11} \\ 0 & 1 & 1 & \eta^{27} \end{array}\right]_{237121} = \left[\begin{array}{cccc} 1 & 0 & 0 & 7 \\ 0 & 1 & 1 & 11 \end{array}\right]_{237121} = \mathbf{Pl}(27, 31, 16, 31, 1, 0)_{34379}$$

$$\ell_{913} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{23} \\ 0 & 1 & 1 & \eta^{8} \end{array}\right]_{507777} = \left[\begin{array}{cccc} 1 & 0 & 0 & 15 \\ 0 & 1 & 1 & 13 \end{array}\right]_{507777} = \mathbf{Pl}(27, 31, 15, 31, 1, 0)_{34348}$$

$$\ell_{914} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{19} \\ 0 & 1 & 1 & \eta^{4} \end{array}\right]_{203457} = \left[\begin{array}{cccc} 1 & 0 & 0 & 6 \\ 0 & 1 & 1 & 16 \end{array}\right]_{203457} = \mathbf{Pl}(27, 31, 11, 31, 1, 0)_{34224}$$

$$\ell_{915} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{8} \\ 0 & 1 & 1 & \eta^{24} \end{array}\right]_{440673} = \left[\begin{array}{cccc} 1 & 0 & 0 & 13 \\ 0 & 1 & 1 & 30 \end{array}\right]_{440673} = \mathbf{Pl}(27, 31, 20, 31, 1, 0)_{34503}$$

$$\ell_{916} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{27} \\ 0 & 1 & 1 & \eta^{12} \end{array}\right]_{372513} = \left[\begin{array}{cccc} 1 & 0 & 0 & 11 \\ 0 & 1 & 1 & 14 \end{array}\right]_{372513} = \mathbf{Pl}(27, 31, 6, 31, 1, 0)_{34069}$$

$$\ell_{917} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{21} \\ 0 & 1 & 1 & \eta^{6} \end{array}\right]_{812097} = \left[\begin{array}{cccc} 1 & 0 & 0 & 24 \\ 0 & 1 & 1 & 10 \end{array}\right]_{812097} = \mathbf{Pl}(27, 31, 25, 31, 1, 0)_{34658}$$

$$\ell_{918} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta \\ 0 & 1 & 1 & \eta^{17} \end{array}\right]_{68257} = \left[\begin{array}{cccc} 1 & 0 & 0 & 2 \\ 0 & 1 & 1 & 19 \end{array}\right]_{68257} = \mathbf{Pl}(27, 31, 29, 31, 1, 0)_{34782}$$

$$\ell_{919} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{14} \\ 0 & 1 & 1 & \eta^{30} \end{array} \right]_{981473} = \left[\begin{array}{cccc} 1 & 0 & 0 & 29 \\ 0 & 1 & 1 & 18 \end{array} \right]_{981473} = \mathbf{Pl}(27, 31, 2, 31, 1, 0)_{33945}$$

$$\ell_{920} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{24} \\ 0 & 1 & 1 & \eta^{9} \end{array} \right]_{1015553} = \left[\begin{array}{cccc} 1 & 0 & 0 & 30 \\ 0 & 1 & 1 & 26 \end{array} \right]_{1015553} = \mathbf{Pl}(27, 31, 21, 31, 1, 0)_{34534}$$

$$\ell_{921} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{9} \\ 0 & 1 & 1 & \eta^{25} \end{array} \right]_{880225} = \left[\begin{array}{cccc} 1 & 0 & 0 & 26 \\ 0 & 1 & 1 & 25 \end{array} \right]_{880225} = \mathbf{Pl}(27, 31, 10, 31, 1, 0)_{34193}$$

$$\ell_{922} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{3} \\ 0 & 1 & 1 & \eta^{19} \end{array} \right]_{270785} = \left[\begin{array}{cccc} 1 & 0 & 0 & 8 \\ 0 & 1 & 1 & 6 \end{array} \right]_{270785} = \mathbf{Pl}(27, 31, 14, 31, 1, 0)_{34317}$$

$$\ell_{923} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{5} \\ 0 & 1 & 1 & \eta^{21} \end{array} \right]_{169889} = \left[\begin{array}{cccc} 1 & 0 & 0 & 5 \\ 0 & 1 & 1 & 24 \end{array} \right]_{169889} = \mathbf{Pl}(27, 31, 17, 31, 1, 0)_{34410}$$

$$\ell_{924} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{10} \\ 0 & 1 & 1 & \eta^{26} \end{array} \right]_{575745} = \left[\begin{array}{cccc} 1 & 0 & 0 & 17 \\ 0 & 1 & 1 & 23 \end{array} \right]_{575745} = \mathbf{Pl}(27, 31, 5, 31, 1, 0)_{34038}$$

$$\ell_{925} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{6} \\ 0 & 1 & 1 & \eta^{22} \end{array} \right]_{338913} = \left[\begin{array}{cccc} 1 & 0 & 0 & 10 \\ 0 & 1 & 1 & 21 \end{array} \right]_{338913} = \mathbf{Pl}(27, 31, 26, 31, 1, 0)_{34689}$$

$$\ell_{926} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{15} \\ 0 & 1 & 1 & 1 \end{array} \right]_{1048577} = \left[\begin{array}{cccc} 1 & 0 & 0 & 31 \\ 0 & 1 & 1 & 1 \end{array} \right]_{1048577} = \mathbf{Pl}(27, 31, 1, 31, 1, 0)_{33914}$$

$$\ell_{927} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{18} \\ 0 & 1 & 1 & \eta^{3} \end{array} \right]_{101729} = \left[\begin{array}{cccc} 1 & 0 & 0 & 3 \\ 0 & 1 & 1 & 8 \end{array} \right]_{101729} = \mathbf{Pl}(27, 31, 22, 31, 1, 0)_{34565}$$

$$\ell_{928} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{17} \\ 0 & 1 & 1 & \eta^{2} \end{array} \right]_{642785} = \left[\begin{array}{cccc} 1 & 0 & 0 & 19 \\ 0 & 1 & 1 & 4 \end{array} \right]_{642785} = \mathbf{Pl}(27, 31, 9, 31, 1, 0)_{34162}$$

$$\ell_{929} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{7} \\ 0 & 1 & 1 & \eta^{23} \end{array} \right]_{676961} = \left[\begin{array}{cccc} 1 & 0 & 0 & 20 \\ 0 & 1 & 1 & 15 \end{array} \right]_{676961} = \mathbf{Pl}(27, 31, 13, 31, 1, 0)_{34286}$$

$$\ell_{930} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{16} \\ 0 & 1 & 1 & \eta \end{array} \right]_{913313} = \left[\begin{array}{cccc} 1 & 0 & 0 & 27 \\ 0 & 1 & 1 & 2 \end{array} \right]_{913313} = \mathbf{Pl}(27, 31, 18, 31, 1, 0)_{34441}$$

$$\ell_{931} = \left[\begin{array}{cccc} 1 & \eta^{18} & \eta^{18} & 0 \\ 0 & 0 & 0 & 1 \end{array} \right]_{105699} = \left[\begin{array}{cccc} 1 & 3 & 3 & 0 \\ 0 & 0 & 0 & 1 \end{array} \right]_{105699} = \mathbf{Pl}(0, 3, 0, 3, 1, 0)_{3265}$$

$$\ell_{932} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{17} \\ 0 & 1 & 1 & \eta^{30} \end{array} \right]_{643233} = \left[\begin{array}{cccc} 1 & 0 & 0 & 19 \\ 0 & 1 & 1 & 18 \end{array} \right]_{643233} = \mathbf{Pl}(28, 3, 2, 3, 1, 0)_{7038}$$

$$\ell_{933} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & \eta^{13} \end{array} \right]_{34721} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 28 \end{array} \right]_{34721} = \mathbf{Pl}(28, 3, 3, 3, 1, 0)_{7069}$$

$$\ell_{934} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{30} \\ 0 & 1 & 1 & \eta^{12} \end{array} \right]_{609281} = \left[\begin{array}{cccc} 1 & 0 & 0 & 18 \\ 0 & 1 & 1 & 14 \end{array} \right]_{609281} = \mathbf{Pl}(28, 3, 6, 3, 1, 0)_{7162}$$

$$\ell_{935} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{13} \\ 0 & 1 & 1 & \eta^{26} \end{array} \right]_{947809} = \left[\begin{array}{cccc} 1 & 0 & 0 & 28 \\ 0 & 1 & 1 & 23 \end{array} \right]_{947809} = \mathbf{Pl}(28, 3, 5, 3, 1, 0)_{7131}$$

$$\ell_{936} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{29} \\ 0 & 1 & 1 & \eta^{11} \end{array} \right]_{304641} = \left[\begin{array}{cccc} 1 & 0 & 0 & 9 \\ 0 & 1 & 1 & 7 \end{array} \right]_{304641} = \mathbf{Pl}(28, 3, 12, 3, 1, 0)_{7348}$$

$$\ell_{937} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{26} \\ 0 & 1 & 1 & \eta^{8} \end{array} \right]_{778369} = \left[\begin{array}{cccc} 1 & 0 & 0 & 23 \\ 0 & 1 & 1 & 13 \end{array} \right]_{778369} = \mathbf{Pl}(28, 3, 15, 3, 1, 0)_{7441}$$

$$\ell_{938} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{12} \\ 0 & 1 & 1 & \eta^{25} \end{array} \right]_{474337} = \left[\begin{array}{cccc} 1 & 0 & 0 & 14 \\ 0 & 1 & 1 & 25 \end{array} \right]_{474337} = \mathbf{Pl}(28, 3, 10, 3, 1, 0)_{7286}$$

$$\ell_{939} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{20} \\ 0 & 1 & 1 & \eta^{2} \end{array} \right]_{406017} = \left[\begin{array}{cccc} 1 & 0 & 0 & 12 \\ 0 & 1 & 1 & 4 \end{array} \right]_{406017} = \mathbf{Pl}(28, 3, 9, 3, 1, 0)_{7255}$$

$$\ell_{940} = \begin{bmatrix} 1 & 0 & 0 & \eta^{28} \\ 0 & 1 & 1 & \eta^{10} \end{bmatrix}_{744673} = \begin{bmatrix} 1 & 0 & 0 & 22 \\ 0 & 1 & 1 & 17 \end{bmatrix}_{744673} = \mathbf{Pl}(28, 3, 24, 3, 1, 0)_{7720}$$

$$\ell_{941} = \begin{bmatrix} 1 & 0 & 0 & \eta^{2} \\ 0 & 1 & 1 & \eta^{15} \end{bmatrix}_{136289} = \begin{bmatrix} 1 & 0 & 0 & 4 \\ 0 & 1 & 1 & 31 \end{bmatrix}_{136289} = \mathbf{Pl}(28, 3, 27, 3, 1, 0)_{7813}$$

$$\ell_{942} = \begin{bmatrix} 1 & 0 & 0 & \eta^{25} \\ 0 & 1 & 1 & \eta^{7} \end{bmatrix}_{846241} = \begin{bmatrix} 1 & 0 & 0 & 25 \\ 0 & 1 & 1 & 20 \end{bmatrix}_{846241} = \mathbf{Pl}(28, 3, 30, 3, 1, 0)_{7906}$$

$$\ell_{943} = \begin{bmatrix} 1 & 0 & 0 & \eta^{4} \\ 0 & 1 & 1 & \eta^{17} \end{bmatrix}_{541793} = \begin{bmatrix} 1 & 0 & 0 & 16 \\ 0 & 1 & 1 & 19 \end{bmatrix}_{541793} = \mathbf{Pl}(28, 3, 29, 3, 1, 0)_{7875}$$

$$\ell_{944} = \begin{bmatrix} 1 & 0 & 0 & \eta^{11} \\ 0 & 1 & 1 & \eta^{24} \end{bmatrix}_{237729} = \begin{bmatrix} 1 & 0 & 0 & 7 \\ 0 & 1 & 1 & 30 \end{bmatrix}_{237729} = \mathbf{Pl}(28, 3, 20, 3, 1, 0)_{7596}$$

$$\ell_{945} = \begin{bmatrix} 1 & 0 & 0 & \eta^{23} \\ 0 & 1 & 1 & \eta^{5} \end{bmatrix}_{507521} = \begin{bmatrix} 1 & 0 & 0 & 15 \\ 0 & 1 & 1 & 5 \end{bmatrix}_{507521} = \mathbf{Pl}(28, 3, 23, 3, 1, 0)_{7689}$$

$$\ell_{946} = \begin{bmatrix} 1 & 0 & 0 & \eta^{19} \\ 0 & 1 & 1 & \eta \end{bmatrix}_{203009} = \begin{bmatrix} 1 & 0 & 0 & 6 \\ 0 & 1 & 1 & 2 \end{bmatrix}_{203009} = \mathbf{Pl}(28, 3, 18, 3, 1, 0)_{7534}$$

$$\ell_{947} = \begin{bmatrix} 1 & 0 & 0 & \eta^{8} \\ 0 & 1 & 1 & \eta^{21} \end{bmatrix}_{440481} = \begin{bmatrix} 1 & 0 & 0 & 13 \\ 0 & 1 & 1 & 24 \end{bmatrix}_{440481} = \mathbf{Pl}(28, 3, 17, 3, 1, 0)_{7503}$$

$$\ell_{948} = \begin{bmatrix} 1 & 0 & 0 & \eta^{27} \\ 0 & 1 & 1 & \eta^{9} \end{bmatrix}_{372897} = \begin{bmatrix} 1 & 0 & 0 & 11 \\ 0 & 1 & 1 & 26 \end{bmatrix}_{372897} = \mathbf{Pl}(28, 3, 21, 3, 1, 0)_{7627}$$

$$\ell_{949} = \begin{bmatrix} 1 & 0 & 0 & \eta^{21} \\ 0 & 1 & 1 & \eta^{3} \end{bmatrix}_{812033} = \begin{bmatrix} 1 & 0 & 0 & 24 \\ 0 & 1 & 1 & 8 \end{bmatrix}_{812033} = \mathbf{Pl}(28, 3, 22, 3, 1, 0)_{7658}$$

$$\ell_{950} = \begin{bmatrix} 1 & 0 & 0 & \eta \\ 0 & 1 & 1 & \eta^{14} \end{bmatrix}_{68577} = \begin{bmatrix} 1 & 0 & 0 & 2 \\ 0 & 1 & 1 & 29 \end{bmatrix}_{68577} = \mathbf{Pl}(28, 3, 19, 3, 1, 0)_{7565}$$

$$\ell_{951} = \begin{bmatrix} 1 & 0 & 0 & \eta^{14} \\ 0 & 1 & 1 & \eta^{27} \end{bmatrix}_{981249} = \begin{bmatrix} 1 & 0 & 0 & 29 \\ 0 & 1 & 1 & 11 \end{bmatrix}_{981249} = \mathbf{Pl}(28, 3, 16, 3, 1, 0)_{7472}$$

$$\ell_{952} = \begin{bmatrix} 1 & 0 & 0 & \eta^{24} \\ 0 & 1 & 1 & \eta^{6} \end{bmatrix}_{1015041} = \begin{bmatrix} 1 & 0 & 0 & 30 \\ 0 & 1 & 1 & 10 \end{bmatrix}_{1015041} = \mathbf{Pl}(28, 3, 25, 3, 1, 0)_{7751}$$

$$\ell_{953} = \begin{bmatrix} 1 & 0 & 0 & \eta^{9} \\ 0 & 1 & 1 & \eta^{22} \end{bmatrix}_{880097} = \begin{bmatrix} 1 & 0 & 0 & 26 \\ 0 & 1 & 1 & 21 \end{bmatrix}_{880097} = \mathbf{Pl}(28, 3, 26, 3, 1, 0)_{7782}$$

$$\ell_{954} = \begin{bmatrix} 1 & 0 & 0 & \eta^{3} \\ 0 & 1 & 1 & \eta^{16} \end{bmatrix}_{271457} = \begin{bmatrix} 1 & 0 & 0 & 8 \\ 0 & 1 & 1 & 27 \end{bmatrix}_{271457} = \mathbf{Pl}(28, 3, 31, 3, 1, 0)_{7937}$$

$$\ell_{955} = \begin{bmatrix} 1 & 0 & 0 & \eta^{5} \\ 0 & 1 & 1 & \eta^{18} \end{bmatrix}_{169217} = \begin{bmatrix} 1 & 0 & 0 & 5 \\ 0 & 1 & 1 & 3 \end{bmatrix}_{169217} = \mathbf{Pl}(28, 3, 28, 3, 1, 0)_{7844}$$

$$\ell_{956} = \begin{bmatrix} 1 & 0 & 0 & \eta^{10} \\ 0 & 1 & 1 & \eta^{23} \end{bmatrix}_{575489} = \begin{bmatrix} 1 & 0 & 0 & 17 \\ 0 & 1 & 1 & 15 \end{bmatrix}_{575489} = \mathbf{Pl}(28, 3, 13, 3, 1, 0)_{7379}$$

$$\ell_{957} = \begin{bmatrix} 1 & 0 & 0 & \eta^{6} \\ 0 & 1 & 1 & \eta^{19} \end{bmatrix}_{338433} = \begin{bmatrix} 1 & 0 & 0 & 10 \\ 0 & 1 & 1 & 6 \end{bmatrix}_{338433} = \mathbf{Pl}(28, 3, 14, 3, 1, 0)_{7410}$$

$$\ell_{958} = \begin{bmatrix} 1 & 0 & 0 & \eta^{22} \\ 0 & 1 & 1 & \eta^{4} \end{bmatrix}_{710817} = \begin{bmatrix} 1 & 0 & 0 & 21 \\ 0 & 1 & 1 & 16 \end{bmatrix}_{710817} = \mathbf{Pl}(28, 3, 11, 3, 1, 0)_{7317}$$

$$\ell_{959} = \begin{bmatrix} 1 & 0 & 0 & \eta^{15} \\ 0 & 1 & 1 & \eta^{28} \end{bmatrix}_{1049249} = \begin{bmatrix} 1 & 0 & 0 & 31 \\ 0 & 1 & 1 & 22 \end{bmatrix}_{1049249} = \mathbf{Pl}(28, 3, 8, 3, 1, 0)_{7224}$$

$$\ell_{960} = \begin{bmatrix} 1 & 0 & 0 & \eta^{18} \\ 0 & 1 & 1 & 1 \end{bmatrix}_{101505} = \begin{bmatrix} 1 & 0 & 0 & 3 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{101505} = \mathbf{Pl}(28, 3, 1, 3, 1, 0)_{7007}$$

$$\ell_{961} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^7 \\ 0 & 1 & 1 & \eta^{20} \end{array}\right]_{676865} = \left[\begin{array}{cccc} 1 & 0 & 0 & 20 \\ 0 & 1 & 1 & 12 \end{array}\right]_{676865} = \mathbf{Pl}(28,3,7,3,1,0)_{7193}$$

$$\ell_{962} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{16} \\ 0 & 1 & 1 & \eta^{29} \end{array}\right]_{913537} = \left[\begin{array}{cccc} 1 & 0 & 0 & 27 \\ 0 & 1 & 1 & 9 \end{array}\right]_{913537} = \mathbf{Pl}(28,3,4,3,1,0)_{7100}$$

$$\ell_{963} = \left[\begin{array}{cccc} 1 & \eta^{17} & \eta^{17} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{663795} = \left[\begin{array}{cccc} 1 & 19 & 19 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{663795} = \mathbf{Pl}(0,19,0,19,1,0)_{4289}$$

$$\ell_{964} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{18} \\ 0 & 1 & 1 & \eta \end{array}\right]_{101537} = \left[\begin{array}{cccc} 1 & 0 & 0 & 3 \\ 0 & 1 & 1 & 2 \end{array}\right]_{101537} = \mathbf{Pl}(29,19,18,19,1,0)_{22911}$$

$$\ell_{965} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & \eta^{14} \end{array}\right]_{34753} = \left[\begin{array}{cccc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 29 \end{array}\right]_{34753} = \mathbf{Pl}(29,19,19,19,1,0)_{22942}$$

$$\ell_{966} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{30} \\ 0 & 1 & 1 & \eta^{13} \end{array}\right]_{609729} = \left[\begin{array}{cccc} 1 & 0 & 0 & 18 \\ 0 & 1 & 1 & 28 \end{array}\right]_{609729} = \mathbf{Pl}(29,19,3,19,1,0)_{22446}$$

$$\ell_{967} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{13} \\ 0 & 1 & 1 & \eta^{27} \end{array}\right]_{947425} = \left[\begin{array}{cccc} 1 & 0 & 0 & 28 \\ 0 & 1 & 1 & 11 \end{array}\right]_{947425} = \mathbf{Pl}(29,19,16,19,1,0)_{22849}$$

$$\ell_{968} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{29} \\ 0 & 1 & 1 & \eta^{12} \end{array}\right]_{304865} = \left[\begin{array}{cccc} 1 & 0 & 0 & 9 \\ 0 & 1 & 1 & 14 \end{array}\right]_{304865} = \mathbf{Pl}(29,19,6,19,1,0)_{22539}$$

$$\ell_{969} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{26} \\ 0 & 1 & 1 & \eta^9 \end{array}\right]_{778785} = \left[\begin{array}{cccc} 1 & 0 & 0 & 23 \\ 0 & 1 & 1 & 26 \end{array}\right]_{778785} = \mathbf{Pl}(29,19,21,19,1,0)_{23004}$$

$$\ell_{970} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{12} \\ 0 & 1 & 1 & \eta^{26} \end{array}\right]_{474273} = \left[\begin{array}{cccc} 1 & 0 & 0 & 14 \\ 0 & 1 & 1 & 23 \end{array}\right]_{474273} = \mathbf{Pl}(29,19,5,19,1,0)_{22508}$$

$$\ell_{971} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{20} \\ 0 & 1 & 1 & \eta^3 \end{array}\right]_{406145} = \left[\begin{array}{cccc} 1 & 0 & 0 & 12 \\ 0 & 1 & 1 & 8 \end{array}\right]_{406145} = \mathbf{Pl}(29,19,22,19,1,0)_{23035}$$

$$\ell_{972} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{28} \\ 0 & 1 & 1 & \eta^{11} \end{array}\right]_{744353} = \left[\begin{array}{cccc} 1 & 0 & 0 & 22 \\ 0 & 1 & 1 & 7 \end{array}\right]_{744353} = \mathbf{Pl}(29,19,12,19,1,0)_{22725}$$

$$\ell_{973} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^2 \\ 0 & 1 & 1 & \eta^{16} \end{array}\right]_{136161} = \left[\begin{array}{cccc} 1 & 0 & 0 & 4 \\ 0 & 1 & 1 & 27 \end{array}\right]_{136161} = \mathbf{Pl}(29,19,31,19,1,0)_{23314}$$

$$\ell_{974} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{25} \\ 0 & 1 & 1 & \eta^8 \end{array}\right]_{846017} = \left[\begin{array}{cccc} 1 & 0 & 0 & 25 \\ 0 & 1 & 1 & 13 \end{array}\right]_{846017} = \mathbf{Pl}(29,19,15,19,1,0)_{22818}$$

$$\ell_{975} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^4 \\ 0 & 1 & 1 & \eta^{18} \end{array}\right]_{541281} = \left[\begin{array}{cccc} 1 & 0 & 0 & 16 \\ 0 & 1 & 1 & 3 \end{array}\right]_{541281} = \mathbf{Pl}(29,19,28,19,1,0)_{23221}$$

$$\ell_{976} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{11} \\ 0 & 1 & 1 & \eta^{25} \end{array}\right]_{237569} = \left[\begin{array}{cccc} 1 & 0 & 0 & 7 \\ 0 & 1 & 1 & 25 \end{array}\right]_{237569} = \mathbf{Pl}(29,19,10,19,1,0)_{22663}$$

$$\ell_{977} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{23} \\ 0 & 1 & 1 & \eta^6 \end{array}\right]_{507681} = \left[\begin{array}{cccc} 1 & 0 & 0 & 15 \\ 0 & 1 & 1 & 10 \end{array}\right]_{507681} = \mathbf{Pl}(29,19,25,19,1,0)_{23128}$$

$$\ell_{978} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{19} \\ 0 & 1 & 1 & \eta^2 \end{array}\right]_{203073} = \left[\begin{array}{cccc} 1 & 0 & 0 & 6 \\ 0 & 1 & 1 & 4 \end{array}\right]_{203073} = \mathbf{Pl}(29,19,9,19,1,0)_{22632}$$

$$\ell_{979} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^8 \\ 0 & 1 & 1 & \eta^{22} \end{array}\right]_{440385} = \left[\begin{array}{cccc} 1 & 0 & 0 & 13 \\ 0 & 1 & 1 & 21 \end{array}\right]_{440385} = \mathbf{Pl}(29,19,26,19,1,0)_{23159}$$

$$\ell_{980} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{27} \\ 0 & 1 & 1 & \eta^{10} \end{array}\right]_{372609} = \left[\begin{array}{cccc} 1 & 0 & 0 & 11 \\ 0 & 1 & 1 & 17 \end{array}\right]_{372609} = \mathbf{Pl}(29,19,24,19,1,0)_{23097}$$

$$\ell_{981} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{21} \\ 0 & 1 & 1 & \eta^4 \end{array}\right]_{812289} = \left[\begin{array}{cccc} 1 & 0 & 0 & 24 \\ 0 & 1 & 1 & 16 \end{array}\right]_{812289} = \mathbf{Pl}(29,19,11,19,1,0)_{22694}$$

$$\ell_{982} = \begin{bmatrix} 1 & 0 & 0 & \eta \\ 0 & 1 & 1 & \eta^{15} \end{bmatrix}_{68641} = \begin{bmatrix} 1 & 0 & 0 & 2 \\ 0 & 1 & 1 & 31 \end{bmatrix}_{68641} = \mathbf{Pl}(29, 19, 27, 19, 1, 0)_{23190}$$

$$\ell_{983} = \begin{bmatrix} 1 & 0 & 0 & \eta^{14} \\ 0 & 1 & 1 & \eta^{28} \end{bmatrix}_{981601} = \begin{bmatrix} 1 & 0 & 0 & 29 \\ 0 & 1 & 1 & 22 \end{bmatrix}_{981601} = \mathbf{Pl}(29, 19, 8, 19, 1, 0)_{22601}$$

$$\ell_{984} = \begin{bmatrix} 1 & 0 & 0 & \eta^{24} \\ 0 & 1 & 1 & \eta^{7} \end{bmatrix}_{1015361} = \begin{bmatrix} 1 & 0 & 0 & 30 \\ 0 & 1 & 1 & 20 \end{bmatrix}_{1015361} = \mathbf{Pl}(29, 19, 30, 19, 1, 0)_{23283}$$

$$\ell_{985} = \begin{bmatrix} 1 & 0 & 0 & \eta^{9} \\ 0 & 1 & 1 & \eta^{23} \end{bmatrix}_{879905} = \begin{bmatrix} 1 & 0 & 0 & 26 \\ 0 & 1 & 1 & 15 \end{bmatrix}_{879905} = \mathbf{Pl}(29, 19, 13, 19, 1, 0)_{22756}$$

$$\ell_{986} = \begin{bmatrix} 1 & 0 & 0 & \eta^{3} \\ 0 & 1 & 1 & \eta^{17} \end{bmatrix}_{271201} = \begin{bmatrix} 1 & 0 & 0 & 8 \\ 0 & 1 & 1 & 19 \end{bmatrix}_{271201} = \mathbf{Pl}(29, 19, 29, 19, 1, 0)_{23252}$$

$$\ell_{987} = \begin{bmatrix} 1 & 0 & 0 & \eta^{5} \\ 0 & 1 & 1 & \eta^{19} \end{bmatrix}_{169313} = \begin{bmatrix} 1 & 0 & 0 & 5 \\ 0 & 1 & 1 & 6 \end{bmatrix}_{169313} = \mathbf{Pl}(29, 19, 14, 19, 1, 0)_{22787}$$

$$\ell_{988} = \begin{bmatrix} 1 & 0 & 0 & \eta^{10} \\ 0 & 1 & 1 & \eta^{24} \end{bmatrix}_{575969} = \begin{bmatrix} 1 & 0 & 0 & 17 \\ 0 & 1 & 1 & 30 \end{bmatrix}_{575969} = \mathbf{Pl}(29, 19, 20, 19, 1, 0)_{22973}$$

$$\ell_{989} = \begin{bmatrix} 1 & 0 & 0 & \eta^{6} \\ 0 & 1 & 1 & \eta^{20} \end{bmatrix}_{338625} = \begin{bmatrix} 1 & 0 & 0 & 10 \\ 0 & 1 & 1 & 12 \end{bmatrix}_{338625} = \mathbf{Pl}(29, 19, 7, 19, 1, 0)_{22570}$$

$$\ell_{990} = \begin{bmatrix} 1 & 0 & 0 & \eta^{22} \\ 0 & 1 & 1 & \eta^{5} \end{bmatrix}_{710465} = \begin{bmatrix} 1 & 0 & 0 & 21 \\ 0 & 1 & 1 & 5 \end{bmatrix}_{710465} = \mathbf{Pl}(29, 19, 23, 19, 1, 0)_{23066}$$

$$\ell_{991} = \begin{bmatrix} 1 & 0 & 0 & \eta^{15} \\ 0 & 1 & 1 & \eta^{29} \end{bmatrix}_{1048833} = \begin{bmatrix} 1 & 0 & 0 & 31 \\ 0 & 1 & 1 & 9 \end{bmatrix}_{1048833} = \mathbf{Pl}(29, 19, 4, 19, 1, 0)_{22477}$$

$$\ell_{992} = \begin{bmatrix} 1 & 0 & 0 & \eta^{17} \\ 0 & 1 & 1 & 1 \end{bmatrix}_{642689} = \begin{bmatrix} 1 & 0 & 0 & 19 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{642689} = \mathbf{Pl}(29, 19, 1, 19, 1, 0)_{22384}$$

$$\ell_{993} = \begin{bmatrix} 1 & 0 & 0 & \eta^{7} \\ 0 & 1 & 1 & \eta^{21} \end{bmatrix}_{677249} = \begin{bmatrix} 1 & 0 & 0 & 20 \\ 0 & 1 & 1 & 24 \end{bmatrix}_{677249} = \mathbf{Pl}(29, 19, 17, 19, 1, 0)_{22880}$$

$$\ell_{994} = \begin{bmatrix} 1 & 0 & 0 & \eta^{16} \\ 0 & 1 & 1 & \eta^{30} \end{bmatrix}_{913825} = \begin{bmatrix} 1 & 0 & 0 & 27 \\ 0 & 1 & 1 & 18 \end{bmatrix}_{913825} = \mathbf{Pl}(29, 19, 2, 19, 1, 0)_{22415}$$

$$\ell_{995} = \begin{bmatrix} 1 & \eta^{7} & \eta^{7} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{698676} = \begin{bmatrix} 1 & 20 & 20 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{698676} = \mathbf{Pl}(0, 20, 0, 20, 1, 0)_{4353}$$

$$\ell_{996} = \begin{bmatrix} 1 & 0 & 0 & \eta^{16} \\ 0 & 1 & 1 & \eta^{9} \end{bmatrix}_{914081} = \begin{bmatrix} 1 & 0 & 0 & 27 \\ 0 & 1 & 1 & 26 \end{bmatrix}_{914081} = \mathbf{Pl}(30, 20, 21, 20, 1, 0)_{23966}$$

$$\ell_{997} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & \eta^{24} \end{bmatrix}_{34785} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 30 \end{bmatrix}_{34785} = \mathbf{Pl}(30, 20, 20, 20, 1, 0)_{23935}$$

$$\ell_{998} = \begin{bmatrix} 1 & 0 & 0 & \eta^{30} \\ 0 & 1 & 1 & \eta^{23} \end{bmatrix}_{609313} = \begin{bmatrix} 1 & 0 & 0 & 18 \\ 0 & 1 & 1 & 15 \end{bmatrix}_{609313} = \mathbf{Pl}(30, 20, 13, 20, 1, 0)_{23718}$$

$$\ell_{999} = \begin{bmatrix} 1 & 0 & 0 & \eta^{13} \\ 0 & 1 & 1 & \eta^{6} \end{bmatrix}_{947393} = \begin{bmatrix} 1 & 0 & 0 & 28 \\ 0 & 1 & 1 & 10 \end{bmatrix}_{947393} = \mathbf{Pl}(30, 20, 25, 20, 1, 0)_{24090}$$

$$\ell_{1000} = \begin{bmatrix} 1 & 0 & 0 & \eta^{29} \\ 0 & 1 & 1 & \eta^{22} \end{bmatrix}_{305089} = \begin{bmatrix} 1 & 0 & 0 & 9 \\ 0 & 1 & 1 & 21 \end{bmatrix}_{305089} = \mathbf{Pl}(30, 20, 26, 20, 1, 0)_{24121}$$

$$\ell_{1001} = \begin{bmatrix} 1 & 0 & 0 & \eta^{26} \\ 0 & 1 & 1 & \eta^{19} \end{bmatrix}_{778145} = \begin{bmatrix} 1 & 0 & 0 & 23 \\ 0 & 1 & 1 & 6 \end{bmatrix}_{778145} = \mathbf{Pl}(30, 20, 14, 20, 1, 0)_{23749}$$

$$\ell_{1002} = \begin{bmatrix} 1 & 0 & 0 & \eta^{12} \\ 0 & 1 & 1 & \eta^{5} \end{bmatrix}_{473697} = \begin{bmatrix} 1 & 0 & 0 & 14 \\ 0 & 1 & 1 & 5 \end{bmatrix}_{473697} = \mathbf{Pl}(30, 20, 23, 20, 1, 0)_{24028}$$

$$\ell_{1003} = \begin{bmatrix} 1 & 0 & 0 & \eta^{20} \\ 0 & 1 & 1 & \eta^{13} \end{bmatrix}_{406785} = \begin{bmatrix} 1 & 0 & 0 & 12 \\ 0 & 1 & 1 & 28 \end{bmatrix}_{406785} = \mathbf{Pl}(30, 20, 3, 20, 1, 0)_{23408}$$

$$\ell_{1004} = \begin{bmatrix} 1 & 0 & 0 & \eta^{28} \\ 0 & 1 & 1 & \eta^{21} \end{bmatrix}_{744897} = \begin{bmatrix} 1 & 0 & 0 & 22 \\ 0 & 1 & 1 & 24 \end{bmatrix}_{744897} = \mathbf{Pl}(30, 20, 17, 20, 1, 0)_{23842}$$

$$\ell_{1005} = \begin{bmatrix} 1 & 0 & 0 & \eta^{2} \\ 0 & 1 & 1 & \eta^{26} \end{bmatrix}_{136033} = \begin{bmatrix} 1 & 0 & 0 & 4 \\ 0 & 1 & 1 & 23 \end{bmatrix}_{136033} = \mathbf{Pl}(30, 20, 5, 20, 1, 0)_{23470}$$

$$\ell_{1006} = \begin{bmatrix} 1 & 0 & 0 & \eta^{25} \\ 0 & 1 & 1 & \eta^{18} \end{bmatrix}_{845697} = \begin{bmatrix} 1 & 0 & 0 & 25 \\ 0 & 1 & 1 & 3 \end{bmatrix}_{845697} = \mathbf{Pl}(30, 20, 28, 20, 1, 0)_{24183}$$

$$\ell_{1007} = \begin{bmatrix} 1 & 0 & 0 & \eta^{4} \\ 0 & 1 & 1 & \eta^{28} \end{bmatrix}_{541889} = \begin{bmatrix} 1 & 0 & 0 & 16 \\ 0 & 1 & 1 & 22 \end{bmatrix}_{541889} = \mathbf{Pl}(30, 20, 8, 20, 1, 0)_{23563}$$

$$\ell_{1008} = \begin{bmatrix} 1 & 0 & 0 & \eta^{11} \\ 0 & 1 & 1 & \eta^{4} \end{bmatrix}_{237281} = \begin{bmatrix} 1 & 0 & 0 & 7 \\ 0 & 1 & 1 & 16 \end{bmatrix}_{237281} = \mathbf{Pl}(30, 20, 11, 20, 1, 0)_{23656}$$

$$\ell_{1009} = \begin{bmatrix} 1 & 0 & 0 & \eta^{23} \\ 0 & 1 & 1 & \eta^{16} \end{bmatrix}_{508225} = \begin{bmatrix} 1 & 0 & 0 & 15 \\ 0 & 1 & 1 & 27 \end{bmatrix}_{508225} = \mathbf{Pl}(30, 20, 31, 20, 1, 0)_{24276}$$

$$\ell_{1010} = \begin{bmatrix} 1 & 0 & 0 & \eta^{19} \\ 0 & 1 & 1 & \eta^{12} \end{bmatrix}_{203393} = \begin{bmatrix} 1 & 0 & 0 & 6 \\ 0 & 1 & 1 & 14 \end{bmatrix}_{203393} = \mathbf{Pl}(30, 20, 6, 20, 1, 0)_{23501}$$

$$\ell_{1011} = \begin{bmatrix} 1 & 0 & 0 & \eta^{8} \\ 0 & 1 & 1 & \eta \end{bmatrix}_{439777} = \begin{bmatrix} 1 & 0 & 0 & 13 \\ 0 & 1 & 1 & 2 \end{bmatrix}_{439777} = \mathbf{Pl}(30, 20, 18, 20, 1, 0)_{23873}$$

$$\ell_{1012} = \begin{bmatrix} 1 & 0 & 0 & \eta^{27} \\ 0 & 1 & 1 & \eta^{20} \end{bmatrix}_{372449} = \begin{bmatrix} 1 & 0 & 0 & 11 \\ 0 & 1 & 1 & 12 \end{bmatrix}_{372449} = \mathbf{Pl}(30, 20, 7, 20, 1, 0)_{23532}$$

$$\ell_{1013} = \begin{bmatrix} 1 & 0 & 0 & \eta^{21} \\ 0 & 1 & 1 & \eta^{14} \end{bmatrix}_{812705} = \begin{bmatrix} 1 & 0 & 0 & 24 \\ 0 & 1 & 1 & 29 \end{bmatrix}_{812705} = \mathbf{Pl}(30, 20, 19, 20, 1, 0)_{23904}$$

$$\ell_{1014} = \begin{bmatrix} 1 & 0 & 0 & \eta \\ 0 & 1 & 1 & \eta^{25} \end{bmatrix}_{68449} = \begin{bmatrix} 1 & 0 & 0 & 2 \\ 0 & 1 & 1 & 25 \end{bmatrix}_{68449} = \mathbf{Pl}(30, 20, 10, 20, 1, 0)_{23625}$$

$$\ell_{1015} = \begin{bmatrix} 1 & 0 & 0 & \eta^{14} \\ 0 & 1 & 1 & \eta^{7} \end{bmatrix}_{981537} = \begin{bmatrix} 1 & 0 & 0 & 29 \\ 0 & 1 & 1 & 20 \end{bmatrix}_{981537} = \mathbf{Pl}(30, 20, 30, 20, 1, 0)_{24245}$$

$$\ell_{1016} = \begin{bmatrix} 1 & 0 & 0 & \eta^{24} \\ 0 & 1 & 1 & \eta^{17} \end{bmatrix}_{1015329} = \begin{bmatrix} 1 & 0 & 0 & 30 \\ 0 & 1 & 1 & 19 \end{bmatrix}_{1015329} = \mathbf{Pl}(30, 20, 29, 20, 1, 0)_{24214}$$

$$\ell_{1017} = \begin{bmatrix} 1 & 0 & 0 & \eta^{9} \\ 0 & 1 & 1 & \eta^{2} \end{bmatrix}_{879553} = \begin{bmatrix} 1 & 0 & 0 & 26 \\ 0 & 1 & 1 & 4 \end{bmatrix}_{879553} = \mathbf{Pl}(30, 20, 9, 20, 1, 0)_{23594}$$

$$\ell_{1018} = \begin{bmatrix} 1 & 0 & 0 & \eta^{3} \\ 0 & 1 & 1 & \eta^{27} \end{bmatrix}_{270945} = \begin{bmatrix} 1 & 0 & 0 & 8 \\ 0 & 1 & 1 & 11 \end{bmatrix}_{270945} = \mathbf{Pl}(30, 20, 16, 20, 1, 0)_{23811}$$

$$\ell_{1019} = \begin{bmatrix} 1 & 0 & 0 & \eta^{5} \\ 0 & 1 & 1 & \eta^{29} \end{bmatrix}_{169409} = \begin{bmatrix} 1 & 0 & 0 & 5 \\ 0 & 1 & 1 & 9 \end{bmatrix}_{169409} = \mathbf{Pl}(30, 20, 4, 20, 1, 0)_{23439}$$

$$\ell_{1020} = \begin{bmatrix} 1 & 0 & 0 & \eta^{10} \\ 0 & 1 & 1 & \eta^{3} \end{bmatrix}_{575265} = \begin{bmatrix} 1 & 0 & 0 & 17 \\ 0 & 1 & 1 & 8 \end{bmatrix}_{575265} = \mathbf{Pl}(30, 20, 22, 20, 1, 0)_{23997}$$

$$\ell_{1021} = \begin{bmatrix} 1 & 0 & 0 & \eta^{6} \\ 0 & 1 & 1 & \eta^{30} \end{bmatrix}_{338817} = \begin{bmatrix} 1 & 0 & 0 & 10 \\ 0 & 1 & 1 & 18 \end{bmatrix}_{338817} = \mathbf{Pl}(30, 20, 2, 20, 1, 0)_{23377}$$

$$\ell_{1022} = \begin{bmatrix} 1 & 0 & 0 & \eta^{22} \\ 0 & 1 & 1 & \eta^{15} \end{bmatrix}_{711297} = \begin{bmatrix} 1 & 0 & 0 & 21 \\ 0 & 1 & 1 & 31 \end{bmatrix}_{711297} = \mathbf{Pl}(30, 20, 27, 20, 1, 0)_{24152}$$

$$\ell_{1023} = \begin{bmatrix} 1 & 0 & 0 & \eta^{15} \\ 0 & 1 & 1 & \eta^{8} \end{bmatrix}_{1048961} = \begin{bmatrix} 1 & 0 & 0 & 31 \\ 0 & 1 & 1 & 13 \end{bmatrix}_{1048961} = \mathbf{Pl}(30, 20, 15, 20, 1, 0)_{23780}$$

$$\ell_{1024} = \begin{bmatrix} 1 & 0 & 0 & \eta^{18} \\ 0 & 1 & 1 & \eta^{11} \end{bmatrix}_{101697} = \begin{bmatrix} 1 & 0 & 0 & 3 \\ 0 & 1 & 1 & 7 \end{bmatrix}_{101697} = \mathbf{Pl}(30, 20, 12, 20, 1, 0)_{23687}$$

$$\ell_{1025} = \begin{bmatrix} 1 & 0 & 0 & \eta^{17} \\ 0 & 1 & 1 & \eta^{10} \end{bmatrix}_{643201} = \begin{bmatrix} 1 & 0 & 0 & 19 \\ 0 & 1 & 1 & 17 \end{bmatrix}_{643201} = \mathbf{Pl}(30, 20, 24, 20, 1, 0)_{24059}$$

$$\ell_{1026} = \begin{bmatrix} 1 & 0 & 0 & \eta^{7} \\ 0 & 1 & 1 & 1 \end{bmatrix}_{676513} = \begin{bmatrix} 1 & 0 & 0 & 20 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{676513} = \mathbf{Pl}(30, 20, 1, 20, 1, 0)_{23346}$$

$$\ell_{1027} = \begin{bmatrix} 1 & \eta^{16} & \eta^{16} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{942843} = \begin{bmatrix} 1 & 27 & 27 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{942843} = \mathbf{Pl}(0, 27, 0, 27, 1, 0)_{4801}$$

$$\ell_{1028} = \begin{bmatrix} 1 & 0 & 0 & \eta^{7} \\ 0 & 1 & 1 & \eta^{22} \end{bmatrix}_{677153} = \begin{bmatrix} 1 & 0 & 0 & 20 \\ 0 & 1 & 1 & 21 \end{bmatrix}_{677153} = \mathbf{Pl}(31, 27, 26, 27, 1, 0)_{30849}$$

$$\ell_{1029} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & \eta^{15} \end{bmatrix}_{34817} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 31 \end{bmatrix}_{34817} = \mathbf{Pl}(31, 27, 27, 27, 1, 0)_{30880}$$

$$\ell_{1030} = \begin{bmatrix} 1 & 0 & 0 & \eta^{30} \\ 0 & 1 & 1 & \eta^{14} \end{bmatrix}_{609761} = \begin{bmatrix} 1 & 0 & 0 & 18 \\ 0 & 1 & 1 & 29 \end{bmatrix}_{609761} = \mathbf{Pl}(31, 27, 19, 27, 1, 0)_{30632}$$

$$\ell_{1031} = \begin{bmatrix} 1 & 0 & 0 & \eta^{13} \\ 0 & 1 & 1 & \eta^{28} \end{bmatrix}_{947777} = \begin{bmatrix} 1 & 0 & 0 & 28 \\ 0 & 1 & 1 & 22 \end{bmatrix}_{947777} = \mathbf{Pl}(31, 27, 8, 27, 1, 0)_{30291}$$

$$\ell_{1032} = \begin{bmatrix} 1 & 0 & 0 & \eta^{29} \\ 0 & 1 & 1 & \eta^{13} \end{bmatrix}_{305313} = \begin{bmatrix} 1 & 0 & 0 & 9 \\ 0 & 1 & 1 & 28 \end{bmatrix}_{305313} = \mathbf{Pl}(31, 27, 3, 27, 1, 0)_{30136}$$

$$\ell_{1033} = \begin{bmatrix} 1 & 0 & 0 & \eta^{26} \\ 0 & 1 & 1 & \eta^{10} \end{bmatrix}_{778497} = \begin{bmatrix} 1 & 0 & 0 & 23 \\ 0 & 1 & 1 & 17 \end{bmatrix}_{778497} = \mathbf{Pl}(31, 27, 24, 27, 1, 0)_{30787}$$

$$\ell_{1034} = \begin{bmatrix} 1 & 0 & 0 & \eta^{12} \\ 0 & 1 & 1 & \eta^{27} \end{bmatrix}_{473889} = \begin{bmatrix} 1 & 0 & 0 & 14 \\ 0 & 1 & 1 & 11 \end{bmatrix}_{473889} = \mathbf{Pl}(31, 27, 16, 27, 1, 0)_{30539}$$

$$\ell_{1035} = \begin{bmatrix} 1 & 0 & 0 & \eta^{20} \\ 0 & 1 & 1 & \eta^{4} \end{bmatrix}_{406401} = \begin{bmatrix} 1 & 0 & 0 & 12 \\ 0 & 1 & 1 & 16 \end{bmatrix}_{406401} = \mathbf{Pl}(31, 27, 11, 27, 1, 0)_{30384}$$

$$\ell_{1036} = \begin{bmatrix} 1 & 0 & 0 & \eta^{28} \\ 0 & 1 & 1 & \eta^{12} \end{bmatrix}_{744577} = \begin{bmatrix} 1 & 0 & 0 & 22 \\ 0 & 1 & 1 & 14 \end{bmatrix}_{744577} = \mathbf{Pl}(31, 27, 6, 27, 1, 0)_{30229}$$

$$\ell_{1037} = \begin{bmatrix} 1 & 0 & 0 & \eta^{2} \\ 0 & 1 & 1 & \eta^{17} \end{bmatrix}_{135905} = \begin{bmatrix} 1 & 0 & 0 & 4 \\ 0 & 1 & 1 & 19 \end{bmatrix}_{135905} = \mathbf{Pl}(31, 27, 29, 27, 1, 0)_{30942}$$

$$\ell_{1038} = \begin{bmatrix} 1 & 0 & 0 & \eta^{25} \\ 0 & 1 & 1 & \eta^{9} \end{bmatrix}_{846433} = \begin{bmatrix} 1 & 0 & 0 & 25 \\ 0 & 1 & 1 & 26 \end{bmatrix}_{846433} = \mathbf{Pl}(31, 27, 21, 27, 1, 0)_{30694}$$

$$\ell_{1039} = \begin{bmatrix} 1 & 0 & 0 & \eta^{4} \\ 0 & 1 & 1 & \eta^{19} \end{bmatrix}_{541377} = \begin{bmatrix} 1 & 0 & 0 & 16 \\ 0 & 1 & 1 & 6 \end{bmatrix}_{541377} = \mathbf{Pl}(31, 27, 14, 27, 1, 0)_{30477}$$

$$\ell_{1040} = \begin{bmatrix} 1 & 0 & 0 & \eta^{11} \\ 0 & 1 & 1 & \eta^{26} \end{bmatrix}_{237505} = \begin{bmatrix} 1 & 0 & 0 & 7 \\ 0 & 1 & 1 & 23 \end{bmatrix}_{237505} = \mathbf{Pl}(31, 27, 5, 27, 1, 0)_{30198}$$

$$\ell_{1041} = \begin{bmatrix} 1 & 0 & 0 & \eta^{23} \\ 0 & 1 & 1 & \eta^{7} \end{bmatrix}_{508001} = \begin{bmatrix} 1 & 0 & 0 & 15 \\ 0 & 1 & 1 & 20 \end{bmatrix}_{508001} = \mathbf{Pl}(31, 27, 30, 27, 1, 0)_{30973}$$

$$\ell_{1042} = \begin{bmatrix} 1 & 0 & 0 & \eta^{19} \\ 0 & 1 & 1 & \eta^{3} \end{bmatrix}_{203201} = \begin{bmatrix} 1 & 0 & 0 & 6 \\ 0 & 1 & 1 & 8 \end{bmatrix}_{203201} = \mathbf{Pl}(31, 27, 22, 27, 1, 0)_{30725}$$

$$\ell_{1043} = \begin{bmatrix} 1 & 0 & 0 & \eta^{8} \\ 0 & 1 & 1 & \eta^{23} \end{bmatrix}_{440193} = \begin{bmatrix} 1 & 0 & 0 & 13 \\ 0 & 1 & 1 & 15 \end{bmatrix}_{440193} = \mathbf{Pl}(31, 27, 13, 27, 1, 0)_{30446}$$

$$\ell_{1044} = \begin{bmatrix} 1 & 0 & 0 & \eta^{27} \\ 0 & 1 & 1 & \eta^{11} \end{bmatrix}_{372289} = \begin{bmatrix} 1 & 0 & 0 & 11 \\ 0 & 1 & 1 & 7 \end{bmatrix}_{372289} = \mathbf{Pl}(31, 27, 12, 27, 1, 0)_{30415}$$

$$\ell_{1045} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{21} \\ 0 & 1 & 1 & \eta^5 \end{array}\right]_{811937} = \left[\begin{array}{cccc} 1 & 0 & 0 & 24 \\ 0 & 1 & 1 & 5 \end{array}\right]_{811937} = \mathbf{Pl}(31, 27, 23, 27, 1, 0)_{30756}$$

$$\ell_{1046} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta \\ 0 & 1 & 1 & \eta^{16} \end{array}\right]_{68513} = \left[\begin{array}{cccc} 1 & 0 & 0 & 2 \\ 0 & 1 & 1 & 27 \end{array}\right]_{68513} = \mathbf{Pl}(31, 27, 31, 27, 1, 0)_{31004}$$

$$\ell_{1047} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{14} \\ 0 & 1 & 1 & \eta^{29} \end{array}\right]_{981185} = \left[\begin{array}{cccc} 1 & 0 & 0 & 29 \\ 0 & 1 & 1 & 9 \end{array}\right]_{981185} = \mathbf{Pl}(31, 27, 4, 27, 1, 0)_{30167}$$

$$\ell_{1048} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{24} \\ 0 & 1 & 1 & \eta^8 \end{array}\right]_{1015137} = \left[\begin{array}{cccc} 1 & 0 & 0 & 30 \\ 0 & 1 & 1 & 13 \end{array}\right]_{1015137} = \mathbf{Pl}(31, 27, 15, 27, 1, 0)_{30508}$$

$$\ell_{1049} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^9 \\ 0 & 1 & 1 & \eta^{24} \end{array}\right]_{880385} = \left[\begin{array}{cccc} 1 & 0 & 0 & 26 \\ 0 & 1 & 1 & 30 \end{array}\right]_{880385} = \mathbf{Pl}(31, 27, 20, 27, 1, 0)_{30663}$$

$$\ell_{1050} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^3 \\ 0 & 1 & 1 & \eta^{18} \end{array}\right]_{270689} = \left[\begin{array}{cccc} 1 & 0 & 0 & 8 \\ 0 & 1 & 1 & 3 \end{array}\right]_{270689} = \mathbf{Pl}(31, 27, 28, 27, 1, 0)_{30911}$$

$$\ell_{1051} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^5 \\ 0 & 1 & 1 & \eta^{20} \end{array}\right]_{169505} = \left[\begin{array}{cccc} 1 & 0 & 0 & 5 \\ 0 & 1 & 1 & 12 \end{array}\right]_{169505} = \mathbf{Pl}(31, 27, 7, 27, 1, 0)_{30260}$$

$$\ell_{1052} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{10} \\ 0 & 1 & 1 & \eta^{25} \end{array}\right]_{575809} = \left[\begin{array}{cccc} 1 & 0 & 0 & 17 \\ 0 & 1 & 1 & 25 \end{array}\right]_{575809} = \mathbf{Pl}(31, 27, 10, 27, 1, 0)_{30353}$$

$$\ell_{1053} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^6 \\ 0 & 1 & 1 & \eta^{21} \end{array}\right]_{339009} = \left[\begin{array}{cccc} 1 & 0 & 0 & 10 \\ 0 & 1 & 1 & 24 \end{array}\right]_{339009} = \mathbf{Pl}(31, 27, 17, 27, 1, 0)_{30570}$$

$$\ell_{1054} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{22} \\ 0 & 1 & 1 & \eta^6 \end{array}\right]_{710625} = \left[\begin{array}{cccc} 1 & 0 & 0 & 21 \\ 0 & 1 & 1 & 10 \end{array}\right]_{710625} = \mathbf{Pl}(31, 27, 25, 27, 1, 0)_{30818}$$

$$\ell_{1055} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{15} \\ 0 & 1 & 1 & \eta^{30} \end{array}\right]_{1049121} = \left[\begin{array}{cccc} 1 & 0 & 0 & 31 \\ 0 & 1 & 1 & 18 \end{array}\right]_{1049121} = \mathbf{Pl}(31, 27, 2, 27, 1, 0)_{30105}$$

$$\ell_{1056} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{18} \\ 0 & 1 & 1 & \eta^2 \end{array}\right]_{101601} = \left[\begin{array}{cccc} 1 & 0 & 0 & 3 \\ 0 & 1 & 1 & 4 \end{array}\right]_{101601} = \mathbf{Pl}(31, 27, 9, 27, 1, 0)_{30322}$$

$$\ell_{1057} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{17} \\ 0 & 1 & 1 & \eta \end{array}\right]_{642721} = \left[\begin{array}{cccc} 1 & 0 & 0 & 19 \\ 0 & 1 & 1 & 2 \end{array}\right]_{642721} = \mathbf{Pl}(31, 27, 18, 27, 1, 0)_{30601}$$

$$\ell_{1058} = \left[\begin{array}{cccc} 1 & 0 & 0 & \eta^{16} \\ 0 & 1 & 1 & 1 \end{array}\right]_{913281} = \left[\begin{array}{cccc} 1 & 0 & 0 & 27 \\ 0 & 1 & 1 & 1 \end{array}\right]_{913281} = \mathbf{Pl}(31, 27, 1, 27, 1, 0)_{30074}$$

$$\ell_{1059} = \left[\begin{array}{cccc} 1 & \eta^{11} & \eta^{10} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{583463} = \left[\begin{array}{cccc} 1 & 7 & 17 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{583463} = \mathbf{Pl}(0, 17, 0, 7, 1, 0)_{3531}$$

$$\ell_{1060} = \left[\begin{array}{cccc} 1 & \eta^{28} & \eta^{10} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{599318} = \left[\begin{array}{cccc} 1 & 22 & 17 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{599318} = \mathbf{Pl}(0, 17, 0, 22, 1, 0)_{4476}$$

$$\ell_{1061} = \left[\begin{array}{cccc} 1 & \eta^{22} & \eta^{20} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{429141} = \left[\begin{array}{cccc} 1 & 21 & 12 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{429141} = \mathbf{Pl}(0, 12, 0, 21, 1, 0)_{4408}$$

$$\ell_{1062} = \left[\begin{array}{cccc} 1 & \eta^{25} & \eta^{20} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{433369} = \left[\begin{array}{cccc} 1 & 25 & 12 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{433369} = \mathbf{Pl}(0, 12, 0, 25, 1, 0)_{4660}$$

$$\ell_{1063} = \left[\begin{array}{cccc} 1 & \eta^{26} & \eta^7 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{701847} = \left[\begin{array}{cccc} 1 & 23 & 20 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{701847} = \mathbf{Pl}(0, 20, 0, 23, 1, 0)_{4542}$$

$$\ell_{1064} = \left[\begin{array}{cccc} 1 & \eta^{18} & \eta^7 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{680707} = \left[\begin{array}{cccc} 1 & 3 & 20 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{680707} = \mathbf{Pl}(0, 20, 0, 3, 1, 0)_{3282}$$

$$\ell_{1065} = \left[\begin{array}{cccc} 1 & \eta^{25} & \eta^{22} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{737785} = \left[\begin{array}{cccc} 1 & 25 & 21 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{737785} = \mathbf{Pl}(0, 21, 0, 25, 1, 0)_{4669}$$

$$\ell_{1066} = \left[\begin{array}{cccc} 1 & \eta^{20} & \eta^{22} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{724044} = \left[\begin{array}{cccc} 1 & 12 & 21 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{724044} = \mathbf{Pl}(0, 21, 0, 12, 1, 0)_{3850}$$

$$\ell_{1067} = \left[\begin{array}{cccc} 1 & \eta^{19} & \eta^{13} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{954470} = \left[\begin{array}{cccc} 1 & 6 & 28 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{954470} = \mathbf{Pl}(0, 28, 0, 6, 1, 0)_{3479}$$

$$\ell_{1068} = \left[\begin{array}{cccc} 1 & \eta^{9} & \eta^{13} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{975610} = \left[\begin{array}{cccc} 1 & 26 & 28 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{975610} = \mathbf{Pl}(0, 28, 0, 26, 1, 0)_{4739}$$

$$\ell_{1069} = \left[\begin{array}{cccc} 1 & \eta^{7} & \eta^{18} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{123668} = \left[\begin{array}{cccc} 1 & 20 & 3 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{123668} = \mathbf{Pl}(0, 3, 0, 20, 1, 0)_{4336}$$

$$\ell_{1070} = \left[\begin{array}{cccc} 1 & \eta^{26} & \eta^{18} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{126839} = \left[\begin{array}{cccc} 1 & 23 & 3 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{126839} = \mathbf{Pl}(0, 3, 0, 23, 1, 0)_{4525}$$

$$\ell_{1071} = \left[\begin{array}{cccc} 1 & \eta^{7} & \eta^{26} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{800148} = \left[\begin{array}{cccc} 1 & 20 & 23 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{800148} = \mathbf{Pl}(0, 23, 0, 20, 1, 0)_{4356}$$

$$\ell_{1072} = \left[\begin{array}{cccc} 1 & \eta^{18} & \eta^{26} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{782179} = \left[\begin{array}{cccc} 1 & 3 & 23 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{782179} = \mathbf{Pl}(0, 23, 0, 3, 1, 0)_{3285}$$

$$\ell_{1073} = \left[\begin{array}{cccc} 1 & \eta^{13} & \eta^{9} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{910076} = \left[\begin{array}{cccc} 1 & 28 & 26 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{910076} = \mathbf{Pl}(0, 26, 0, 28, 1, 0)_{4863}$$

$$\ell_{1074} = \left[\begin{array}{cccc} 1 & \eta^{19} & \eta^{9} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{886822} = \left[\begin{array}{cccc} 1 & 6 & 26 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{886822} = \mathbf{Pl}(0, 26, 0, 6, 1, 0)_{3477}$$

$$\ell_{1075} = \left[\begin{array}{cccc} 1 & \eta^{10} & \eta^{11} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{255793} = \left[\begin{array}{cccc} 1 & 17 & 7 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{255793} = \mathbf{Pl}(0, 7, 0, 17, 1, 0)_{4151}$$

$$\ell_{1076} = \left[\begin{array}{cccc} 1 & \eta^{28} & \eta^{11} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{261078} = \left[\begin{array}{cccc} 1 & 22 & 7 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{261078} = \mathbf{Pl}(0, 7, 0, 22, 1, 0)_{4466}$$

$$\ell_{1077} = \left[\begin{array}{cccc} 1 & \eta^{21} & \eta^{14} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1007320} = \left[\begin{array}{cccc} 1 & 24 & 29 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1007320} = \mathbf{Pl}(0, 29, 0, 24, 1, 0)_{4614}$$

$$\ell_{1078} = \left[\begin{array}{cccc} 1 & \eta^{5} & \eta^{14} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{987237} = \left[\begin{array}{cccc} 1 & 5 & 29 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{987237} = \mathbf{Pl}(0, 29, 0, 5, 1, 0)_{3417}$$

$$\ell_{1079} = \left[\begin{array}{cccc} 1 & \eta^{22} & \eta^{25} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{868853} = \left[\begin{array}{cccc} 1 & 21 & 25 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{868853} = \mathbf{Pl}(0, 25, 0, 21, 1, 0)_{4421}$$

$$\ell_{1080} = \left[\begin{array}{cccc} 1 & \eta^{20} & \eta^{25} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{859340} = \left[\begin{array}{cccc} 1 & 12 & 25 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{859340} = \mathbf{Pl}(0, 25, 0, 12, 1, 0)_{3854}$$

$$\ell_{1081} = \left[\begin{array}{cccc} 1 & \eta^{9} & \eta^{19} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{231482} = \left[\begin{array}{cccc} 1 & 26 & 6 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{231482} = \mathbf{Pl}(0, 6, 0, 26, 1, 0)_{4717}$$

$$\ell_{1082} = \left[\begin{array}{cccc} 1 & \eta^{13} & \eta^{19} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{233596} = \left[\begin{array}{cccc} 1 & 28 & 6 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{233596} = \mathbf{Pl}(0, 6, 0, 28, 1, 0)_{4843}$$

$$\ell_{1083} = \left[\begin{array}{cccc} 1 & \eta^{14} & \eta^{5} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{200829} = \left[\begin{array}{cccc} 1 & 29 & 5 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{200829} = \mathbf{Pl}(0, 5, 0, 29, 1, 0)_{4905}$$

$$\ell_{1084} = \left[\begin{array}{cccc} 1 & \eta^{21} & \eta^{5} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{195544} = \left[\begin{array}{cccc} 1 & 24 & 5 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{195544} = \mathbf{Pl}(0, 5, 0, 24, 1, 0)_{4590}$$

$$\ell_{1085} = \left[\begin{array}{cccc} 1 & \eta^{10} & \eta^{28} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{763153} = \left[\begin{array}{cccc} 1 & 17 & 22 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{763153} = \mathbf{Pl}(0, 22, 0, 17, 1, 0)_{4166}$$

$$\ell_{1086} = \left[\begin{array}{cccc} 1 & \eta^{11} & \eta^{28} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{752583} = \left[\begin{array}{cccc} 1 & 7 & 22 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{752583} = \mathbf{Pl}(0, 22, 0, 7, 1, 0)_{3536}$$

$$\ell_{1087} = \begin{bmatrix} 1 & \eta^{14} & \eta^{21} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{843485} = \begin{bmatrix} 1 & 29 & 24 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{843485} = \mathbf{Pl}(0, 24, 0, 29, 1, 0)_{4924}$$

$$\ell_{1088} = \begin{bmatrix} 1 & \eta^{5} & \eta^{21} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{818117} = \begin{bmatrix} 1 & 5 & 24 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{818117} = \mathbf{Pl}(0, 24, 0, 5, 1, 0)_{3412}$$

Rank of lines: (1, 1056, 33, 577, 897, 289, 737, 449, 385, 705, 129, 801, 513, 225, 481, 193, 417, 353, 769, 65, 929, 961, 833, 257, 161, 545, 321, 673, 993, 97, 609, 641, 865, 2113, 34880, 1082433, 33825, 608833, 947073, 304417, 777953, 473537, 405889, 744129, 135297, 845601, 541185, 236769, 507361, 202945, ...752583, 843485, 818117)

Rank of points on Klein quadric: (3, 1089, 1153, 1217, 1281, 1345, 1409, 1473, 1537, 1601, 1665, 1729, 1793, 1857, 1921, 1985, 2049, 2113, 2177, 2241, 2305, 2369, 2433, 2497, 2561, 2625, 2689, 2753, 2817, 2881, 2945, 3009, 3073, 3105, 1121, 97, 128, 159, 190, 221, 252, 283, 314, 345, 376, 407, 438, 469, 500, 531, ...3536, 4924, 3412)

Eckardt Points

The surface has 0 Eckardt points:

Double Points

The surface has 0 Double points:
The double points on the surface are:

Single Points

The surface has 1024 single points:
Too many to print.

Points on surface but on no line

The surface has 0 points not on any line:
The points on the surface but not on lines are:

Line Intersection Graph

Too many lines to print.
Neighbor sets in the line intersection graph:
Too many lines to print.
The surface has 2081 points:
Too many to print.