Rank-65540 over GF(32)

January 15, 2021

The equation

The equation of the surface is :

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

(1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0)
The point rank of the equation over GF(32) is 1108378662

General information

Number of lines	1088
Number of points	2049
Number of singular points	65
Number of Eckardt points	0
Number of double points	0
Number of single points	992
Number of points off lines	0
Number of Hesse planes	0
Number of axes	0
Type of points on lines	33^{1088}
Type of lines on points	$64, 33^{1056}, 1^{992}$

Singular Points

The surface has 65 singular points:

$0 : P_1 = \mathbf{P}(0,1,0,0) = \mathbf{P}(0,1,0,0)$
$1 : P_2 = \mathbf{P}(0,0,1,0) = \mathbf{P}(0,0,1,0)$
$2 : P_3 = \mathbf{P}(0,0,0,1) = \mathbf{P}(0,0,0,1)$
$3 : P_{1090} = \mathbf{P}(0,1,0,1) = \mathbf{P}(0,1,0,1)$
$4 : P_{1122} = \mathbf{P}(0,\eta,0,1) = \mathbf{P}(0,2,0,1)$
$5 : P_{1154} = \mathbf{P}(0,\eta^{18},0,1) = \mathbf{P}(0,3,0,1)$
$6 : P_{1186} = \mathbf{P}(0,\eta^2,0,1) = \mathbf{P}(0,4,0,1)$
$7 : P_{1218} = \mathbf{P}(0,\eta^5,0,1) = \mathbf{P}(0,5,0,1)$
$8 : P_{1250} = \mathbf{P}(0,\eta^{19},0,1) = \mathbf{P}(0,6,0,1)$

$9 : P_{1282} = \mathbf{P}(0,\eta^{11},0,1) = \mathbf{P}(0,7,0,1)$
$10 : P_{1314} = \mathbf{P}(0,\eta^3,0,1) = \mathbf{P}(0,8,0,1)$
$11 : P_{1346} = \mathbf{P}(0,\eta^{29},0,1) = \mathbf{P}(0,9,0,1)$
$12 : P_{1378} = \mathbf{P}(0,\eta^6,0,1) = \mathbf{P}(0,10,0,1)$
$13 : P_{1410} = \mathbf{P}(0,\eta^{27},0,1) = \mathbf{P}(0,11,0,1)$
$14 : P_{1442} = \mathbf{P}(0,\eta^{20},0,1) = \mathbf{P}(0,12,0,1)$
$15 : P_{1474} = \mathbf{P}(0,\eta^8,0,1) = \mathbf{P}(0,13,0,1)$
$16 : P_{1506} = \mathbf{P}(0,\eta^{12},0,1) = \mathbf{P}(0,14,0,1)$
$17 : P_{1538} = \mathbf{P}(0,\eta^{23},0,1) = \mathbf{P}(0,15,0,1)$

$18: P_{1570} = \mathbf{P}(0, \eta^4, 0, 1) = \mathbf{P}(0, 16, 0, 1)$
$19: P_{1602} = \mathbf{P}(0, \eta^{10}, 0, 1) = \mathbf{P}(0, 17, 0, 1)$
$20: P_{1634} = \mathbf{P}(0, \eta^{30}, 0, 1) = \mathbf{P}(0, 18, 0, 1)$
$21: P_{1666} = \mathbf{P}(0, \eta^{17}, 0, 1) = \mathbf{P}(0, 19, 0, 1)$
$22: P_{1698} = \mathbf{P}(0, \eta^{7}, 0, 1) = \mathbf{P}(0, 20, 0, 1)$
$23: P_{1730} = \mathbf{P}(0, \eta^{22}, 0, 1) = \mathbf{P}(0, 21, 0, 1)$
$24: P_{1762} = \mathbf{P}(0, \eta^{28}, 0, 1) = \mathbf{P}(0, 22, 0, 1)$
$25: P_{1794} = \mathbf{P}(0, \eta^{26}, 0, 1) = \mathbf{P}(0, 23, 0, 1)$
$26: P_{1826} = \mathbf{P}(0, \eta^{21}, 0, 1) = \mathbf{P}(0, 24, 0, 1)$
$27: P_{1858} = \mathbf{P}(0, \eta^{25}, 0, 1) = \mathbf{P}(0, 25, 0, 1)$
$28: P_{1890} = \mathbf{P}(0, \eta^{9}, 0, 1) = \mathbf{P}(0, 26, 0, 1)$
$29: P_{1922} = \mathbf{P}(0, \eta^{16}, 0, 1) = \mathbf{P}(0, 27, 0, 1)$
$30: P_{1954} = \mathbf{P}(0, \eta^{13}, 0, 1) = \mathbf{P}(0, 28, 0, 1)$
$31: P_{1986} = \mathbf{P}(0, \eta^{14}, 0, 1) = \mathbf{P}(0, 29, 0, 1)$
$32: P_{2018} = \mathbf{P}(0, \eta^{24}, 0, 1) = \mathbf{P}(0, 30, 0, 1)$
$33: P_{2050} = \mathbf{P}(0, \eta^{15}, 0, 1) = \mathbf{P}(0, 31, 0, 1)$
$34: P_{2082} = \mathbf{P}(0, 0, 1, 1) = \mathbf{P}(0, 0, 1, 1)$
$35: P_{3105} = \mathbf{P}(0, 0, \eta, 1) = \mathbf{P}(0, 0, 2, 1)$
$36: P_{4129} = \mathbf{P}(0, 0, \eta^{18}, 1) = \mathbf{P}(0, 0, 3, 1)$
$37: P_{5153} = \mathbf{P}(0, 0, \eta^{2}, 1) = \mathbf{P}(0, 0, 4, 1)$
$38: P_{6177} = \mathbf{P}(0, 0, \eta^{5}, 1) = \mathbf{P}(0, 0, 5, 1)$
$39: P_{7201} = \mathbf{P}(0, 0, \eta^{19}, 1) = \mathbf{P}(0, 0, 6, 1)$
$40: P_{8225} = \mathbf{P}(0, 0, \eta^{11}, 1) = \mathbf{P}(0, 0, 7, 1)$
$41: P_{9249} = \mathbf{P}(0, 0, \eta^{3}, 1) = \mathbf{P}(0, 0, 8, 1)$

$42: P_{10273} = \mathbf{P}(0, 0, \eta^{29}, 1) = \mathbf{P}(0, 0, 9, 1)$
$43: P_{11297} = \mathbf{P}(0, 0, \eta^{6}, 1) = \mathbf{P}(0, 0, 10, 1)$
$44: P_{12321} = \mathbf{P}(0, 0, \eta^{27}, 1) = \mathbf{P}(0, 0, 11, 1)$
$45: P_{13345} = \mathbf{P}(0, 0, \eta^{20}, 1) = \mathbf{P}(0, 0, 12, 1)$
$46: P_{14369} = \mathbf{P}(0, 0, \eta^{8}, 1) = \mathbf{P}(0, 0, 13, 1)$
$47: P_{15393} = \mathbf{P}(0, 0, \eta^{12}, 1) = \mathbf{P}(0, 0, 14, 1)$
$48: P_{16417} = \mathbf{P}(0, 0, \eta^{23}, 1) = \mathbf{P}(0, 0, 15, 1)$
$49: P_{17441} = \mathbf{P}(0, 0, \eta^{4}, 1) = \mathbf{P}(0, 0, 16, 1)$
$50: P_{18465} = \mathbf{P}(0, 0, \eta^{10}, 1) = \mathbf{P}(0, 0, 17, 1)$
$51: P_{19489} = \mathbf{P}(0, 0, \eta^{30}, 1) = \mathbf{P}(0, 0, 18, 1)$
$52: P_{20513} = \mathbf{P}(0, 0, \eta^{17}, 1) = \mathbf{P}(0, 0, 19, 1)$
$53: P_{21537} = \mathbf{P}(0, 0, \eta^{7}, 1) = \mathbf{P}(0, 0, 20, 1)$
$54: P_{22561} = \mathbf{P}(0, 0, \eta^{22}, 1) = \mathbf{P}(0, 0, 21, 1)$
$55: P_{23585} = \mathbf{P}(0, 0, \eta^{28}, 1) = \mathbf{P}(0, 0, 22, 1)$
$56: P_{24609} = \mathbf{P}(0, 0, \eta^{26}, 1) = \mathbf{P}(0, 0, 23, 1)$
$57: P_{25633} = \mathbf{P}(0, 0, \eta^{21}, 1) = \mathbf{P}(0, 0, 24, 1)$
$58: P_{26657} = \mathbf{P}(0, 0, \eta^{25}, 1) = \mathbf{P}(0, 0, 25, 1)$
$59: P_{27681} = \mathbf{P}(0, 0, \eta^{9}, 1) = \mathbf{P}(0, 0, 26, 1)$
$60: P_{28705} = \mathbf{P}(0, 0, \eta^{16}, 1) = \mathbf{P}(0, 0, 27, 1)$
$61: P_{29729} = \mathbf{P}(0, 0, \eta^{13}, 1) = \mathbf{P}(0, 0, 28, 1)$
$62: P_{30753} = \mathbf{P}(0, 0, \eta^{14}, 1) = \mathbf{P}(0, 0, 29, 1)$
$63: P_{31777} = \mathbf{P}(0, 0, \eta^{24}, 1) = \mathbf{P}(0, 0, 30, 1)$
$64: P_{32801} = \mathbf{P}(0, 0, \eta^{15}, 1) = \mathbf{P}(0, 0, 31, 1)$

The 1088 Lines

The lines and their Pluecker coordinates are:

$$\ell_0 = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082368} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082368} = \mathbf{Pl}(0, 0, 0, 0, 0, 1)_{34849}$$

$$\ell_1 = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082400} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082400} = \mathbf{Pl}(0, 0, 0, 1, 0, 0)_{65}$$

$$\ell_2 = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082369} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082369} = \mathbf{Pl}(0, 0, 0, 1, 0, 1)_{36865}$$

$$\ell_3 = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1082386} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1082386} = \mathbf{Pl}(0, 0, 0, 18, 0, 1)_{37936}$$

$$\ell_4 = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1082396} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1082396} = \mathbf{Pl}(0, 0, 0, 28, 0, 1)_{38566}$$

$$\ell_5 = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1082377} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1082377} = \mathbf{Pl}(0, 0, 0, 9, 0, 1)_{37369}$$

$$\ell_6 = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1082391} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1082391} = \mathbf{Pl}(0, 0, 0, 23, 0, 1)_{38251}$$

$$\ell_7 = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1082382} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1082382} = \mathbf{Pl}(0, 0, 0, 14, 0, 1)_{37684}$$

$$\ell_8 = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1082380} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1082380} = \mathbf{Pl}(0, 0, 0, 12, 0, 1)_{37558}$$

$$\ell_9 = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1082390} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1082390} = \mathbf{Pl}(0, 0, 0, 22, 0, 1)_{38188}$$

$$\ell_{10} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^2 \end{bmatrix}_{1082372} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1082372} = \mathbf{Pl}(0,0,0,4,0,1)_{37054}$$

$$\ell_{11} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{25} \end{bmatrix}_{1082393} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 25 \end{bmatrix}_{1082393} = \mathbf{Pl}(0,0,0,25,0,1)_{38377}$$

$$\ell_{12} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^4 \end{bmatrix}_{1082384} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1082384} = \mathbf{Pl}(0,0,0,16,0,1)_{37810}$$

$$\ell_{13} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1082375} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1082375} = \mathbf{Pl}(0,0,0,7,0,1)_{37243}$$

$$\ell_{14} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1082383} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1082383} = \mathbf{Pl}(0,0,0,15,0,1)_{37747}$$

$$\ell_{15} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{19} \end{bmatrix}_{1082374} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{1082374} = \mathbf{Pl}(0,0,0,6,0,1)_{37180}$$

$$\ell_{16} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^8 \end{bmatrix}_{1082381} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1082381} = \mathbf{Pl}(0,0,0,13,0,1)_{37621}$$

$$\ell_{17} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1082379} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1082379} = \mathbf{Pl}(0,0,0,11,0,1)_{37495}$$

$$\ell_{18} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1082392} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1082392} = \mathbf{Pl}(0,0,0,24,0,1)_{38314}$$

$$\ell_{19} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1082370} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1082370} = \mathbf{Pl}(0,0,0,2,0,1)_{36928}$$

$$\ell_{20} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{14} \end{bmatrix}_{1082397} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 29 \end{bmatrix}_{1082397} = \mathbf{Pl}(0,0,0,29,0,1)_{38629}$$

$$\ell_{21} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1082398} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1082398} = \mathbf{Pl}(0,0,0,30,0,1)_{38692}$$

$$\ell_{22} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^9 \end{bmatrix}_{1082394} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 26 \end{bmatrix}_{1082394} = \mathbf{Pl}(0,0,0,26,0,1)_{38440}$$

$$\ell_{23} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^3 \end{bmatrix}_{1082376} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1082376} = \mathbf{Pl}(0,0,0,8,0,1)_{37306}$$

$$\ell_{24} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^5 \end{bmatrix}_{1082373} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1082373} = \mathbf{Pl}(0,0,0,5,0,1)_{37117}$$

$$\ell_{25} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1082385} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1082385} = \mathbf{Pl}(0,0,0,17,0,1)_{37873}$$

$$\ell_{26} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^6 \end{bmatrix}_{1082378} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1082378} = \mathbf{Pl}(0,0,0,10,0,1)_{37432}$$

$$\ell_{27} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1082389} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1082389} = \mathbf{Pl}(0,0,0,21,0,1)_{38125}$$

$$\ell_{28} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1082399} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1082399} = \mathbf{Pl}(0,0,0,31,0,1)_{38755}$$

$$\ell_{29} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1082371} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1082371} = \mathbf{Pl}(0,0,0,3,0,1)_{36991}$$

$$\ell_{30} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1082387} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1082387} = \mathbf{Pl}(0,0,0,19,0,1)_{37999}$$

$$\ell_{31} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^7 \end{bmatrix}_{1082388} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 20 \end{bmatrix}_{1082388} = \mathbf{Pl}(0,0,0,20,0,1)_{38062}$$

$$\ell_{32} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1082395} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1082395} = \mathbf{Pl}(0,0,0,27,0,1)_{38503}$$

$$\ell_{33} = \begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083424} = \begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083424} = \mathbf{Pl}(0,1,0,0,0,0)_{1}$$

$$\ell_{34} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082401} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082401} = \mathbf{Pl}(0,1,0,0,0,1)_{34881}$$

$$\ell_{35} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082962} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082962} = \mathbf{Pl}(0,18,0,0,0,1)_{34898}$$

$$\ell_{36} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083292} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083292} = \mathbf{Pl}(0,28,0,0,0,1)_{34908}$$

$$\ell_{37} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082665} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082665} = \mathbf{Pl}(0,9,0,0,0,1)_{34889}$$

$$\ell_{38} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083127} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083127} = \mathbf{Pl}(0,23,0,0,0,1)_{34903}$$

$$\ell_{39} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082830} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082830} = \mathbf{Pl}(0,14,0,0,0,1)_{34894}$$

$$\ell_{40} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082764} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082764} = \mathbf{Pl}(0,12,0,0,0,1)_{34892}$$

$$\ell_{41} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083094} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083094} = \mathbf{Pl}(0,22,0,0,0,1)_{34902}$$

$$\ell_{42} = \begin{bmatrix} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082500} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082500} = \mathbf{Pl}(0,4,0,0,0,1)_{34884}$$

$$\ell_{43} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083193} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083193} = \mathbf{Pl}(0,25,0,0,0,1)_{34905}$$

$$\ell_{44} = \begin{bmatrix} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082896} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082896} = \mathbf{Pl}(0,16,0,0,0,1)_{34896}$$

$$\ell_{45} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082599} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082599} = \mathbf{Pl}(0,7,0,0,0,1)_{34887}$$

$$\ell_{46} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082863} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082863} = \mathbf{Pl}(0,15,0,0,0,1)_{34895}$$

$$\ell_{47} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082566} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082566} = \mathbf{Pl}(0,6,0,0,0,1)_{34886}$$

$$\ell_{48} = \begin{bmatrix} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082797} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082797} = \mathbf{Pl}(0,13,0,0,0,1)_{34893}$$

$$\ell_{49} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082731} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082731} = \mathbf{Pl}(0,11,0,0,0,1)_{34891}$$

$$\ell_{50} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083160} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083160} = \mathbf{Pl}(0,24,0,0,0,1)_{34904}$$

$$\ell_{51} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082434} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082434} = \mathbf{Pl}(0,2,0,0,0,1)_{34882}$$

$$\ell_{52} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083325} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083325} = \mathbf{Pl}(0, 29, 0, 0, 0, 1)_{34909}$$

$$\ell_{53} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083358} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083358} = \mathbf{Pl}(0, 30, 0, 0, 0, 1)_{34910}$$

$$\ell_{54} = \begin{bmatrix} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083226} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083226} = \mathbf{Pl}(0, 26, 0, 0, 0, 1)_{34906}$$

$$\ell_{55} = \begin{bmatrix} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082632} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082632} = \mathbf{Pl}(0, 8, 0, 0, 0, 1)_{34888}$$

$$\ell_{56} = \begin{bmatrix} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082533} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082533} = \mathbf{Pl}(0, 5, 0, 0, 0, 1)_{34885}$$

$$\ell_{57} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082929} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082929} = \mathbf{Pl}(0, 17, 0, 0, 0, 1)_{34897}$$

$$\ell_{58} = \begin{bmatrix} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082698} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082698} = \mathbf{Pl}(0, 10, 0, 0, 0, 1)_{34890}$$

$$\ell_{59} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083061} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083061} = \mathbf{Pl}(0, 21, 0, 0, 0, 1)_{34901}$$

$$\ell_{60} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083391} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083391} = \mathbf{Pl}(0, 31, 0, 0, 0, 1)_{34911}$$

$$\ell_{61} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082467} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082467} = \mathbf{Pl}(0, 3, 0, 0, 0, 1)_{34883}$$

$$\ell_{62} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082995} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082995} = \mathbf{Pl}(0, 19, 0, 0, 0, 1)_{34899}$$

$$\ell_{63} = \begin{bmatrix} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083028} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083028} = \mathbf{Pl}(0, 20, 0, 0, 0, 1)_{34900}$$

$$\ell_{64} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083259} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083259} = \mathbf{Pl}(0, 27, 0, 0, 0, 1)_{34907}$$

$$\ell_{65} = \begin{bmatrix} 0 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082433} = \begin{bmatrix} 0 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082433} = \mathbf{Pl}(0, 1, 0, 1, 0, 0)_{97}$$

$$\ell_{66} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082402} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082402} = \mathbf{Pl}(0, 1, 0, 1, 0, 1)_{36897}$$

$$\ell_{67} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1082980} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1082980} = \mathbf{Pl}(0, 18, 0, 18, 0, 1)_{37985}$$

$$\ell_{68} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1083320} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1083320} = \mathbf{Pl}(0, 28, 0, 28, 0, 1)_{38625}$$

$$\ell_{69} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1082674} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1082674} = \mathbf{Pl}(0, 9, 0, 9, 0, 1)_{37409}$$

$$\ell_{70} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1083150} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1083150} = \mathbf{Pl}(0, 23, 0, 23, 0, 1)_{38305}$$

$$\ell_{71} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1082844} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1082844} = \mathbf{Pl}(0, 14, 0, 14, 0, 1)_{37729}$$

$$\ell_{72} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1082776} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1082776} = \mathbf{Pl}(0, 12, 0, 12, 0, 1)_{37601}$$

$$\ell_{73} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1083116} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1083116} = \mathbf{Pl}(0, 22, 0, 22, 0, 1)_{38241}$$

$$\ell_{74} = \begin{bmatrix} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{2} \end{bmatrix}_{1082504} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1082504} = \mathbf{Pl}(0, 4, 0, 4, 0, 1)_{37089}$$

$$\ell_{75} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{25} \end{bmatrix}_{1083218} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 25 \end{bmatrix}_{1083218} = \mathbf{Pl}(0, 25, 0, 25, 0, 1)_{38433}$$

$$\ell_{76} = \begin{bmatrix} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{4} \end{bmatrix}_{1082912} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1082912} = \mathbf{Pl}(0, 16, 0, 16, 0, 1)_{37857}$$

$$\ell_{77} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1082606} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1082606} = \mathbf{Pl}(0, 7, 0, 7, 0, 1)_{37281}$$

$$\ell_{78} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1082878} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1082878} = \mathbf{Pl}(0, 15, 0, 15, 0, 1)_{37793}$$

$$\ell_{79} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{19} \end{bmatrix}_{1082572} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{1082572} = \mathbf{Pl}(0, 6, 0, 6, 0, 1)_{37217}$$

$$\ell_{80} = \begin{bmatrix} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{8} \end{bmatrix}_{1082810} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1082810} = \mathbf{Pl}(0, 13, 0, 13, 0, 1)_{37665}$$

$$\ell_{81} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1082742} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1082742} = \mathbf{Pl}(0, 11, 0, 11, 0, 1)_{37537}$$

$$\ell_{82} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1083184} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1083184} = \mathbf{Pl}(0, 24, 0, 24, 0, 1)_{38369}$$

$$\ell_{83} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1082436} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1082436} = \mathbf{Pl}(0, 2, 0, 2, 0, 1)_{36961}$$

$$\ell_{84} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{14} \end{bmatrix}_{1083354} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 29 \end{bmatrix}_{1083354} = \mathbf{Pl}(0, 29, 0, 29, 0, 1)_{38689}$$

$$\ell_{85} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1083388} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1083388} = \mathbf{Pl}(0, 30, 0, 30, 0, 1)_{38753}$$

$$\ell_{86} = \begin{bmatrix} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{9} \end{bmatrix}_{1083252} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 26 \end{bmatrix}_{1083252} = \mathbf{Pl}(0, 26, 0, 26, 0, 1)_{38497}$$

$$\ell_{87} = \begin{bmatrix} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{3} \end{bmatrix}_{1082640} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1082640} = \mathbf{Pl}(0, 8, 0, 8, 0, 1)_{37345}$$

$$\ell_{88} = \begin{bmatrix} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{5} \end{bmatrix}_{1082538} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1082538} = \mathbf{Pl}(0, 5, 0, 5, 0, 1)_{37153}$$

$$\ell_{89} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1082946} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1082946} = \mathbf{Pl}(0, 17, 0, 17, 0, 1)_{37921}$$

$$\ell_{90} = \begin{bmatrix} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{6} \end{bmatrix}_{1082708} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1082708} = \mathbf{Pl}(0, 10, 0, 10, 0, 1)_{37473}$$

$$\ell_{91} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1083082} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1083082} = \mathbf{Pl}(0, 21, 0, 21, 0, 1)_{38177}$$

$$\ell_{92} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1083422} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1083422} = \mathbf{Pl}(0, 31, 0, 31, 0, 1)_{38817}$$

$$\ell_{93} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1082470} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1082470} = \mathbf{Pl}(0, 3, 0, 3, 0, 1)_{37025}$$

$$\ell_{94} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1083014} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1083014} = \mathbf{Pl}(0,19,0,19,0,1)_{38049}$$

$$\ell_{95} = \begin{bmatrix} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{7} \end{bmatrix}_{1083048} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 20 \end{bmatrix}_{1083048} = \mathbf{Pl}(0,20,0,20,0,1)_{38113}$$

$$\ell_{96} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1083286} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1083286} = \mathbf{Pl}(0,27,0,27,0,1)_{38561}$$

$$\ell_{97} = \begin{bmatrix} 1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{35937} = \begin{bmatrix} 1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{35937} = \mathbf{Pl}(0,1,0,1,1,0)_{3137}$$

$$\ell_{98} = \begin{bmatrix} 0 & 1 & \eta^{30} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082994} = \begin{bmatrix} 0 & 1 & 18 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082994} = \mathbf{Pl}(0,18,0,1,0,0)_{114}$$

$$\ell_{99} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1082403} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1082403} = \mathbf{Pl}(0,1,0,2,0,1)_{36960}$$

$$\ell_{100} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082963} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082963} = \mathbf{Pl}(0,18,0,1,0,1)_{36914}$$

$$\ell_{101} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{14} \end{bmatrix}_{1083321} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 29 \end{bmatrix}_{1083321} = \mathbf{Pl}(0,28,0,29,0,1)_{38688}$$

$$\ell_{102} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1082683} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1082683} = \mathbf{Pl}(0,9,0,18,0,1)_{37976}$$

$$\ell_{103} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1083138} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1083138} = \mathbf{Pl}(0,23,0,11,0,1)_{37549}$$

$$\ell_{104} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1082858} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1082858} = \mathbf{Pl}(0,14,0,28,0,1)_{38611}$$

$$\ell_{105} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1082788} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1082788} = \mathbf{Pl}(0,12,0,24,0,1)_{38357}$$

$$\ell_{106} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1083103} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1083103} = \mathbf{Pl}(0,22,0,9,0,1)_{37422}$$

$$\ell_{107} = \begin{bmatrix} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{3} \end{bmatrix}_{1082508} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1082508} = \mathbf{Pl}(0,4,0,8,0,1)_{37341}$$

$$\ell_{108} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1083216} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1083216} = \mathbf{Pl}(0,25,0,23,0,1)_{38307}$$

$$\ell_{109} = \begin{bmatrix} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{5} \end{bmatrix}_{1082901} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1082901} = \mathbf{Pl}(0,16,0,5,0,1)_{37164}$$

$$\ell_{110} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1082613} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1082613} = \mathbf{Pl}(0,7,0,14,0,1)_{37722}$$

$$\ell_{111} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1082893} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1082893} = \mathbf{Pl}(0,15,0,30,0,1)_{38738}$$

$$\ell_{112} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1082578} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1082578} = \mathbf{Pl}(0,6,0,12,0,1)_{37595}$$

$$\ell_{113} = \begin{bmatrix} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{9} \end{bmatrix}_{1082823} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 26 \end{bmatrix}_{1082823} = \mathbf{Pl}(0,13,0,26,0,1)_{38484}$$

$$\ell_{114} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1082753} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1082753} = \mathbf{Pl}(0,11,0,22,0,1)_{38230}$$

$$\ell_{115} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1083181} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1083181} = \mathbf{Pl}(0,24,0,21,0,1)_{38180}$$

$$\ell_{116} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{2} \end{bmatrix}_{1082438} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1082438} = \mathbf{Pl}(0,2,0,4,0,1)_{37087}$$

$$\ell_{117} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1083356} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1083356} = \mathbf{Pl}(0,29,0,31,0,1)_{38815}$$

$$\ell_{118} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{25} \end{bmatrix}_{1083383} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 25 \end{bmatrix}_{1083383} = \mathbf{Pl}(0,30,0,25,0,1)_{38438}$$

$$\ell_{119} = \begin{bmatrix} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1083243} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1083243} = \mathbf{Pl}(0,26,0,17,0,1)_{37930}$$

$$\ell_{120} = \begin{bmatrix} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{4} \end{bmatrix}_{1082648} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1082648} = \mathbf{Pl}(0,8,0,16,0,1)_{37849}$$

$$\ell_{121} = \begin{bmatrix} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{6} \end{bmatrix}_{1082543} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1082543} = \mathbf{Pl}(0,5,0,10,0,1)_{37468}$$

$$\ell_{122} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1082936} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1082936} = \mathbf{Pl}(0,17,0,7,0,1)_{37291}$$

$$\ell_{123} = \begin{bmatrix} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{7} \end{bmatrix}_{1082718} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 20 \end{bmatrix}_{1082718} = \mathbf{Pl}(0,10,0,20,0,1)_{38103}$$

$$\ell_{124} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1083076} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1083076} = \mathbf{Pl}(0,21,0,15,0,1)_{37799}$$

$$\ell_{125} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1083418} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1083418} = \mathbf{Pl}(0,31,0,27,0,1)_{38565}$$

$$\ell_{126} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{19} \end{bmatrix}_{1082473} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{1082473} = \mathbf{Pl}(0,3,0,6,0,1)_{37214}$$

$$\ell_{127} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1082998} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1082998} = \mathbf{Pl}(0,19,0,3,0,1)_{37041}$$

$$\ell_{128} = \begin{bmatrix} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{8} \end{bmatrix}_{1083041} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1083041} = \mathbf{Pl}(0,20,0,13,0,1)_{37672}$$

$$\ell_{129} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1083278} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1083278} = \mathbf{Pl}(0,27,0,19,0,1)_{38057}$$

$$\ell_{130} = \begin{bmatrix} 1 & \eta^{16} & \eta^{15} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1078139} = \begin{bmatrix} 1 & 27 & 31 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1078139} = \mathbf{Pl}(0,31,0,27,1,0)_{4805}$$

$$\ell_{131} = \begin{bmatrix} 0 & 1 & \eta^{13} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083324} = \begin{bmatrix} 0 & 1 & 28 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083324} = \mathbf{Pl}(0,28,0,1,0,0)_{124}$$

$$\ell_{132} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1082404} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1082404} = \mathbf{Pl}(0,1,0,3,0,1)_{37023}$$

$$\ell_{133} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1082981} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1082981} = \mathbf{Pl}(0,18,0,19,0,1)_{38048}$$

$$\ell_{134} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1083293} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1083293} = \mathbf{Pl}(0,28,0,1,0,1)_{36924}$$

$$\ell_{135} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1082692} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1082692} = \mathbf{Pl}(0,9,0,27,0,1)_{38543}$$

$$\ell_{136} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1083155} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1083155} = \mathbf{Pl}(0,23,0,28,0,1)_{38620}$$

$$\ell_{137} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1082848} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1082848} = \mathbf{Pl}(0,14,0,18,0,1)_{37981}$$

$$\ell_{138} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{7} \end{bmatrix}_{1082784} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 20 \end{bmatrix}_{1082784} = \mathbf{Pl}(0,12,0,20,0,1)_{38105}$$

$$\ell_{139} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1083125} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1083125} = \mathbf{Pl}(0,22,0,31,0,1)_{38808}$$

$$\ell_{140} = \begin{bmatrix} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1082512} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1082512} = \mathbf{Pl}(0,4,0,12,0,1)_{37593}$$

$$\ell_{141} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1083207} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1083207} = \mathbf{Pl}(0,25,0,14,0,1)_{37740}$$

$$\ell_{142} = \begin{bmatrix} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1082917} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1082917} = \mathbf{Pl}(0,16,0,21,0,1)_{38172}$$

$$\ell_{143} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1082608} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1082608} = \mathbf{Pl}(0,7,0,9,0,1)_{37407}$$

$$\ell_{144} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1082880} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1082880} = \mathbf{Pl}(0,15,0,17,0,1)_{37919}$$

$$\ell_{145} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{6} \end{bmatrix}_{1082576} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1082576} = \mathbf{Pl}(0,6,0,10,0,1)_{37469}$$

$$\ell_{146} = \begin{bmatrix} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1082820} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1082820} = \mathbf{Pl}(0,13,0,23,0,1)_{38295}$$

$$\ell_{147} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{14} \end{bmatrix}_{1082760} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 29 \end{bmatrix}_{1082760} = \mathbf{Pl}(0,11,0,29,0,1)_{38671}$$

$$\ell_{148} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{8} \end{bmatrix}_{1083173} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1083173} = \mathbf{Pl}(0,24,0,13,0,1)_{37676}$$

$$\ell_{149} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{19} \end{bmatrix}_{1082440} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{1082440} = \mathbf{Pl}(0,2,0,6,0,1)_{37213}$$

$$\ell_{150} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1083327} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1083327} = \mathbf{Pl}(0,29,0,2,0,1)_{36988}$$

$$\ell_{151} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1083365} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1083365} = \mathbf{Pl}(0,30,0,7,0,1)_{37304}$$

$$\ell_{152} = \begin{bmatrix} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1083237} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1083237} = \mathbf{Pl}(0,26,0,11,0,1)_{37552}$$

$$\ell_{153} = \begin{bmatrix} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1082656} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1082656} = \mathbf{Pl}(0,8,0,24,0,1)_{38353}$$

$$\ell_{154} = \begin{bmatrix} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1082548} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1082548} = \mathbf{Pl}(0,5,0,15,0,1)_{37783}$$

$$\ell_{155} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1082951} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1082951} = \mathbf{Pl}(0,17,0,22,0,1)_{38236}$$

$$\ell_{156} = \begin{bmatrix} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1082728} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1082728} = \mathbf{Pl}(0,10,0,30,0,1)_{38733}$$

$$\ell_{157} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{9} \end{array}\right]_{1083087} = \left[\begin{array}{cccc} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 26 \end{array}\right]_{1083087} = \mathbf{Pl}(0,21,0,26,0,1)_{38492}$$

$$\ell_{158} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{2} \end{array}\right]_{1083395} = \left[\begin{array}{cccc} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 4 \end{array}\right]_{1083395} = \mathbf{Pl}(0,31,0,4,0,1)_{37116}$$

$$\ell_{159} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{5} \end{array}\right]_{1082472} = \left[\begin{array}{cccc} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 5 \end{array}\right]_{1082472} = \mathbf{Pl}(0,3,0,5,0,1)_{37151}$$

$$\ell_{160} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{4} \end{array}\right]_{1083011} = \left[\begin{array}{cccc} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 16 \end{array}\right]_{1083011} = \mathbf{Pl}(0,19,0,16,0,1)_{37860}$$

$$\ell_{161} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{25} \end{array}\right]_{1083053} = \left[\begin{array}{cccc} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 25 \end{array}\right]_{1083053} = \mathbf{Pl}(0,20,0,25,0,1)_{38428}$$

$$\ell_{162} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{3} \end{array}\right]_{1083267} = \left[\begin{array}{cccc} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 8 \end{array}\right]_{1083267} = \mathbf{Pl}(0,27,0,8,0,1)_{37364}$$

$$\ell_{163} = \left[\begin{array}{cccc} 1 & \eta^{9} & \eta^{22} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{738842} = \left[\begin{array}{cccc} 1 & 26 & 21 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{738842} = \mathbf{Pl}(0,21,0,26,1,0)_{4732}$$

$$\ell_{164} = \left[\begin{array}{cccc} 0 & 1 & \eta^{29} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082697} = \left[\begin{array}{cccc} 0 & 1 & 9 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082697} = \mathbf{Pl}(0,9,0,1,0,0)_{105}$$

$$\ell_{165} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{2} \end{array}\right]_{1082405} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 4 \end{array}\right]_{1082405} = \mathbf{Pl}(0,1,0,4,0,1)_{37086}$$

$$\ell_{166} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta \end{array}\right]_{1082964} = \left[\begin{array}{cccc} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 2 \end{array}\right]_{1082964} = \mathbf{Pl}(0,18,0,2,0,1)_{36977}$$

$$\ell_{167} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{15} \end{array}\right]_{1083323} = \left[\begin{array}{cccc} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 31 \end{array}\right]_{1083323} = \mathbf{Pl}(0,28,0,31,0,1)_{38814}$$

$$\ell_{168} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082666} = \left[\begin{array}{cccc} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082666} = \mathbf{Pl}(0,9,0,1,0,1)_{36905}$$

$$\ell_{169} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{28} \end{array}\right]_{1083149} = \left[\begin{array}{cccc} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 22 \end{array}\right]_{1083149} = \mathbf{Pl}(0,23,0,22,0,1)_{38242}$$

$$\ell_{170} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{14} \end{array}\right]_{1082859} = \left[\begin{array}{cccc} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 29 \end{array}\right]_{1082859} = \mathbf{Pl}(0,14,0,29,0,1)_{38674}$$

$$\ell_{171} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{22} \end{array}\right]_{1082785} = \left[\begin{array}{cccc} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 21 \end{array}\right]_{1082785} = \mathbf{Pl}(0,12,0,21,0,1)_{38168}$$

$$\ell_{172} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{30} \end{array}\right]_{1083112} = \left[\begin{array}{cccc} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 18 \end{array}\right]_{1083112} = \mathbf{Pl}(0,22,0,18,0,1)_{37989}$$

$$\ell_{173} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{4} \end{array}\right]_{1082516} = \left[\begin{array}{cccc} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 16 \end{array}\right]_{1082516} = \mathbf{Pl}(0,4,0,16,0,1)_{37845}$$

$$\ell_{174} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{27} \end{array}\right]_{1083204} = \left[\begin{array}{cccc} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 11 \end{array}\right]_{1083204} = \mathbf{Pl}(0,25,0,11,0,1)_{37551}$$

$$\ell_{175} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{6} \end{array}\right]_{1082906} = \left[\begin{array}{cccc} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 10 \end{array}\right]_{1082906} = \mathbf{Pl}(0,16,0,10,0,1)_{37479}$$

$$\ell_{176} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{13} \end{array}\right]_{1082627} = \left[\begin{array}{cccc} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 28 \end{array}\right]_{1082627} = \mathbf{Pl}(0,7,0,28,0,1)_{38604}$$

$$\ell_{177} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{25} \end{array}\right]_{1082888} = \left[\begin{array}{cccc} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 25 \end{array}\right]_{1082888} = \mathbf{Pl}(0,15,0,25,0,1)_{38423}$$

$$\ell_{178} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1082590} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1082590} = \mathbf{Pl}(0,6,0,24,0,1)_{38351}$$

$$\ell_{179} = \begin{bmatrix} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1082814} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1082814} = \mathbf{Pl}(0,13,0,17,0,1)_{37917}$$

$$\ell_{180} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1082740} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1082740} = \mathbf{Pl}(0,11,0,9,0,1)_{37411}$$

$$\ell_{181} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1083175} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1083175} = \mathbf{Pl}(0,24,0,15,0,1)_{37802}$$

$$\ell_{182} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{3} \end{bmatrix}_{1082442} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1082442} = \mathbf{Pl}(0,2,0,8,0,1)_{37339}$$

$$\ell_{183} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1083352} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1083352} = \mathbf{Pl}(0,29,0,27,0,1)_{38563}$$

$$\ell_{184} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1083381} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1083381} = \mathbf{Pl}(0,30,0,23,0,1)_{38312}$$

$$\ell_{185} = \begin{bmatrix} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1083233} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1083233} = \mathbf{Pl}(0,26,0,7,0,1)_{37300}$$

$$\ell_{186} = \begin{bmatrix} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{5} \end{bmatrix}_{1082637} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1082637} = \mathbf{Pl}(0,8,0,5,0,1)_{37156}$$

$$\ell_{187} = \begin{bmatrix} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{7} \end{bmatrix}_{1082553} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 20 \end{bmatrix}_{1082553} = \mathbf{Pl}(0,5,0,20,0,1)_{38098}$$

$$\ell_{188} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1082943} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1082943} = \mathbf{Pl}(0,17,0,14,0,1)_{37732}$$

$$\ell_{189} = \begin{bmatrix} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{8} \end{bmatrix}_{1082711} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1082711} = \mathbf{Pl}(0,10,0,13,0,1)_{37662}$$

$$\ell_{190} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1083091} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1083091} = \mathbf{Pl}(0,21,0,30,0,1)_{38744}$$

$$\ell_{191} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1083410} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1083410} = \mathbf{Pl}(0,31,0,19,0,1)_{38061}$$

$$\ell_{192} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1082479} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1082479} = \mathbf{Pl}(0,3,0,12,0,1)_{37592}$$

$$\ell_{193} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{19} \end{bmatrix}_{1083001} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{1083001} = \mathbf{Pl}(0,19,0,6,0,1)_{37230}$$

$$\ell_{194} = \begin{bmatrix} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{9} \end{bmatrix}_{1083054} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 26 \end{bmatrix}_{1083054} = \mathbf{Pl}(0,20,0,26,0,1)_{38491}$$

$$\ell_{195} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1083262} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1083262} = \mathbf{Pl}(0,27,0,3,0,1)_{37049}$$

$$\ell_{196} = \begin{bmatrix} 1 & \eta & \eta^{30} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{612002} = \begin{bmatrix} 1 & 2 & 18 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{612002} = \mathbf{Pl}(0,18,0,2,1,0)_{3217}$$

$$\ell_{197} = \begin{bmatrix} 0 & 1 & \eta^{26} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083159} = \begin{bmatrix} 0 & 1 & 23 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083159} = \mathbf{Pl}(0,23,0,1,0,0)_{119}$$

$$\ell_{198} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{5} \end{bmatrix}_{1082406} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1082406} = \mathbf{Pl}(0,1,0,5,0,1)_{37149}$$

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$$\ell_{199} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{4} \end{array} \right]_{1082978} = \left[\begin{array}{cccc} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 16 \end{array} \right]_{1082978} = \mathbf{Pl}(0,18,0,16,0,1)_{37859}$$

$$\ell_{200} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{18} \end{array} \right]_{1083295} = \left[\begin{array}{cccc} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 3 \end{array} \right]_{1083295} = \mathbf{Pl}(0,28,0,3,0,1)_{37050}$$

$$\ell_{201} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{3} \end{array} \right]_{1082673} = \left[\begin{array}{cccc} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 8 \end{array} \right]_{1082673} = \mathbf{Pl}(0,9,0,8,0,1)_{37346}$$

$$\ell_{202} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & 1 \end{array} \right]_{1083128} = \left[\begin{array}{cccc} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 1 \end{array} \right]_{1083128} = \mathbf{Pl}(0,23,0,1,0,1)_{36919}$$

$$\ell_{203} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{17} \end{array} \right]_{1082849} = \left[\begin{array}{cccc} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 19 \end{array} \right]_{1082849} = \mathbf{Pl}(0,14,0,19,0,1)_{38044}$$

$$\ell_{204} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{25} \end{array} \right]_{1082789} = \left[\begin{array}{cccc} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 25 \end{array} \right]_{1082789} = \mathbf{Pl}(0,12,0,25,0,1)_{38420}$$

$$\ell_{205} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{2} \end{array} \right]_{1083098} = \left[\begin{array}{cccc} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 4 \end{array} \right]_{1083098} = \mathbf{Pl}(0,22,0,4,0,1)_{37107}$$

$$\ell_{206} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{7} \end{array} \right]_{1082520} = \left[\begin{array}{cccc} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 20 \end{array} \right]_{1082520} = \mathbf{Pl}(0,4,0,20,0,1)_{38097}$$

$$\ell_{207} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{30} \end{array} \right]_{1083211} = \left[\begin{array}{cccc} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 18 \end{array} \right]_{1083211} = \mathbf{Pl}(0,25,0,18,0,1)_{37992}$$

$$\ell_{208} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{9} \end{array} \right]_{1082922} = \left[\begin{array}{cccc} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 26 \end{array} \right]_{1082922} = \mathbf{Pl}(0,16,0,26,0,1)_{38487}$$

$$\ell_{209} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{16} \end{array} \right]_{1082626} = \left[\begin{array}{cccc} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 27 \end{array} \right]_{1082626} = \mathbf{Pl}(0,7,0,27,0,1)_{38541}$$

$$\ell_{210} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{28} \end{array} \right]_{1082885} = \left[\begin{array}{cccc} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 22 \end{array} \right]_{1082885} = \mathbf{Pl}(0,15,0,22,0,1)_{38234}$$

$$\ell_{211} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{24} \end{array} \right]_{1082596} = \left[\begin{array}{cccc} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 30 \end{array} \right]_{1082596} = \mathbf{Pl}(0,6,0,30,0,1)_{38729}$$

$$\ell_{212} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{13} \end{array} \right]_{1082825} = \left[\begin{array}{cccc} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 28 \end{array} \right]_{1082825} = \mathbf{Pl}(0,13,0,28,0,1)_{38610}$$

$$\ell_{213} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta \end{array} \right]_{1082733} = \left[\begin{array}{cccc} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 2 \end{array} \right]_{1082733} = \mathbf{Pl}(0,11,0,2,0,1)_{36970}$$

$$\ell_{214} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{26} \end{array} \right]_{1083183} = \left[\begin{array}{cccc} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 23 \end{array} \right]_{1083183} = \mathbf{Pl}(0,24,0,23,0,1)_{38306}$$

$$\ell_{215} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{6} \end{array} \right]_{1082444} = \left[\begin{array}{cccc} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 10 \end{array} \right]_{1082444} = \mathbf{Pl}(0,2,0,10,0,1)_{37465}$$

$$\ell_{216} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{19} \end{array} \right]_{1083331} = \left[\begin{array}{cccc} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 6 \end{array} \right]_{1083331} = \mathbf{Pl}(0,29,0,6,0,1)_{37240}$$

$$\ell_{217} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{29} \end{array} \right]_{1083367} = \left[\begin{array}{cccc} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 9 \end{array} \right]_{1083367} = \mathbf{Pl}(0,30,0,9,0,1)_{37430}$$

$$\ell_{218} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{14} \end{array} \right]_{1083255} = \left[\begin{array}{cccc} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 29 \end{array} \right]_{1083255} = \mathbf{Pl}(0,26,0,29,0,1)_{38686}$$

$$\ell_{219} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{8} \end{array} \right]_{1082645} = \left[\begin{array}{cccc} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 13 \end{array} \right]_{1082645} = \mathbf{Pl}(0,8,0,13,0,1)_{37660}$$

$$\ell_{220} = \begin{bmatrix} 0 & 1 & 0 & \eta^5 \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1082550} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1082550} = \mathbf{Pl}(0,5,0,17,0,1)_{37909}$$

$$\ell_{221} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1082960} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1082960} = \mathbf{Pl}(0,17,0,31,0,1)_{38803}$$

$$\ell_{222} = \begin{bmatrix} 0 & 1 & 0 & \eta^6 \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1082705} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1082705} = \mathbf{Pl}(0,10,0,7,0,1)_{37284}$$

$$\ell_{223} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1083072} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1083072} = \mathbf{Pl}(0,21,0,11,0,1)_{37547}$$

$$\ell_{224} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1083403} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1083403} = \mathbf{Pl}(0,31,0,12,0,1)_{37620}$$

$$\ell_{225} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1082482} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1082482} = \mathbf{Pl}(0,3,0,15,0,1)_{37781}$$

$$\ell_{226} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1083016} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1083016} = \mathbf{Pl}(0,19,0,21,0,1)_{38175}$$

$$\ell_{227} = \begin{bmatrix} 0 & 1 & 0 & \eta^7 \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1083042} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1083042} = \mathbf{Pl}(0,20,0,14,0,1)_{37735}$$

$$\ell_{228} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1083283} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1083283} = \mathbf{Pl}(0,27,0,24,0,1)_{38372}$$

$$\ell_{229} = \begin{bmatrix} 1 & \eta^{18} & \eta^{13} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{951299} = \begin{bmatrix} 1 & 3 & 28 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{951299} = \mathbf{Pl}(0,28,0,3,1,0)_{3290}$$

$$\ell_{230} = \begin{bmatrix} 0 & 1 & \eta^{12} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082862} = \begin{bmatrix} 0 & 1 & 14 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082862} = \mathbf{Pl}(0,14,0,1,0,0)_{110}$$

$$\ell_{231} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{19} \end{bmatrix}_{1082407} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{1082407} = \mathbf{Pl}(0,1,0,6,0,1)_{37212}$$

$$\ell_{232} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1082965} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1082965} = \mathbf{Pl}(0,18,0,3,0,1)_{37040}$$

$$\ell_{233} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1083294} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1083294} = \mathbf{Pl}(0,28,0,2,0,1)_{36987}$$

$$\ell_{234} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1082684} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1082684} = \mathbf{Pl}(0,9,0,19,0,1)_{38039}$$

$$\ell_{235} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{14} \end{bmatrix}_{1083156} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 29 \end{bmatrix}_{1083156} = \mathbf{Pl}(0,23,0,29,0,1)_{38683}$$

$$\ell_{236} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082831} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082831} = \mathbf{Pl}(0,14,0,1,0,1)_{36910}$$

$$\ell_{237} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^8 \end{bmatrix}_{1082777} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1082777} = \mathbf{Pl}(0,12,0,13,0,1)_{37664}$$

$$\ell_{238} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1083121} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1083121} = \mathbf{Pl}(0,22,0,27,0,1)_{38556}$$

$$\ell_{239} = \begin{bmatrix} 0 & 1 & 0 & \eta^2 \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1082524} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1082524} = \mathbf{Pl}(0,4,0,24,0,1)_{38349}$$

$$\ell_{240} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1083221} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1083221} = \mathbf{Pl}(0,25,0,28,0,1)_{38622}$$

$$\ell_{241} = \begin{bmatrix} 0 & 1 & 0 & \eta^4 \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1082911} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1082911} = \mathbf{Pl}(0, 16, 0, 15, 0, 1)_{37794}$$

$$\ell_{242} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1082617} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1082617} = \mathbf{Pl}(0, 7, 0, 18, 0, 1)_{37974}$$

$$\ell_{243} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1082870} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1082870} = \mathbf{Pl}(0, 15, 0, 7, 0, 1)_{37289}$$

$$\ell_{244} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{7} \end{bmatrix}_{1082586} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 20 \end{bmatrix}_{1082586} = \mathbf{Pl}(0, 6, 0, 20, 0, 1)_{38099}$$

$$\ell_{245} = \begin{bmatrix} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1082808} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1082808} = \mathbf{Pl}(0, 13, 0, 11, 0, 1)_{37539}$$

$$\ell_{246} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1082762} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1082762} = \mathbf{Pl}(0, 11, 0, 31, 0, 1)_{38797}$$

$$\ell_{247} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{9} \end{bmatrix}_{1083186} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 26 \end{bmatrix}_{1083186} = \mathbf{Pl}(0, 24, 0, 26, 0, 1)_{38495}$$

$$\ell_{248} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1082446} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1082446} = \mathbf{Pl}(0, 2, 0, 12, 0, 1)_{37591}$$

$$\ell_{249} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{2} \end{bmatrix}_{1083329} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1083329} = \mathbf{Pl}(0, 29, 0, 4, 0, 1)_{37114}$$

$$\ell_{250} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1083372} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1083372} = \mathbf{Pl}(0, 30, 0, 14, 0, 1)_{37745}$$

$$\ell_{251} = \begin{bmatrix} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1083248} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1083248} = \mathbf{Pl}(0, 26, 0, 22, 0, 1)_{38245}$$

$$\ell_{252} = \begin{bmatrix} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1082653} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1082653} = \mathbf{Pl}(0, 8, 0, 21, 0, 1)_{38164}$$

$$\ell_{253} = \begin{bmatrix} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1082563} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1082563} = \mathbf{Pl}(0, 5, 0, 30, 0, 1)_{38728}$$

$$\ell_{254} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1082938} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1082938} = \mathbf{Pl}(0, 17, 0, 9, 0, 1)_{37417}$$

$$\ell_{255} = \begin{bmatrix} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{25} \end{bmatrix}_{1082723} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 25 \end{bmatrix}_{1082723} = \mathbf{Pl}(0, 10, 0, 25, 0, 1)_{38418}$$

$$\ell_{256} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1083078} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1083078} = \mathbf{Pl}(0, 21, 0, 17, 0, 1)_{37925}$$

$$\ell_{257} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{3} \end{bmatrix}_{1083399} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1083399} = \mathbf{Pl}(0, 31, 0, 8, 0, 1)_{37368}$$

$$\ell_{258} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{6} \end{bmatrix}_{1082477} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1082477} = \mathbf{Pl}(0, 3, 0, 10, 0, 1)_{37466}$$

$$\ell_{259} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{5} \end{bmatrix}_{1083000} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1083000} = \mathbf{Pl}(0, 19, 0, 5, 0, 1)_{37167}$$

$$\ell_{260} = \begin{bmatrix} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1083051} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1083051} = \mathbf{Pl}(0, 20, 0, 23, 0, 1)_{38302}$$

$$\ell_{261} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{4} \end{bmatrix}_{1083275} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1083275} = \mathbf{Pl}(0, 27, 0, 16, 0, 1)_{37868}$$

$$\ell_{262} = \left[\begin{array}{cccc} 1 & \eta^{25} & \eta^6 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{365721} = \left[\begin{array}{cccc} 1 & 25 & 10 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{365721} = \mathbf{Pl}(0,10,0,25,1,0)_{4658}$$

$$\ell_{263} = \left[\begin{array}{cccc} 0 & 1 & \eta^{20} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082796} = \left[\begin{array}{cccc} 0 & 1 & 12 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082796} = \mathbf{Pl}(0,12,0,1,0,0)_{108}$$

$$\ell_{264} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{11} \end{array}\right]_{1082408} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 7 \end{array}\right]_{1082408} = \mathbf{Pl}(0,1,0,7,0,1)_{37275}$$

$$\ell_{265} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{10} \end{array}\right]_{1082979} = \left[\begin{array}{cccc} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 17 \end{array}\right]_{1082979} = \mathbf{Pl}(0,18,0,17,0,1)_{37922}$$

$$\ell_{266} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{24} \end{array}\right]_{1083322} = \left[\begin{array}{cccc} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 30 \end{array}\right]_{1083322} = \mathbf{Pl}(0,28,0,30,0,1)_{38751}$$

$$\ell_{267} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{9} \end{array}\right]_{1082691} = \left[\begin{array}{cccc} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 26 \end{array}\right]_{1082691} = \mathbf{Pl}(0,9,0,26,0,1)_{38480}$$

$$\ell_{268} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{6} \end{array}\right]_{1083137} = \left[\begin{array}{cccc} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 10 \end{array}\right]_{1083137} = \mathbf{Pl}(0,23,0,10,0,1)_{37486}$$

$$\ell_{269} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{23} \end{array}\right]_{1082845} = \left[\begin{array}{cccc} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 15 \end{array}\right]_{1082845} = \mathbf{Pl}(0,14,0,15,0,1)_{37792}$$

$$\ell_{270} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082765} = \left[\begin{array}{cccc} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082765} = \mathbf{Pl}(0,12,0,1,0,1)_{36908}$$

$$\ell_{271} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{8} \end{array}\right]_{1083107} = \left[\begin{array}{cccc} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 13 \end{array}\right]_{1083107} = \mathbf{Pl}(0,22,0,13,0,1)_{37674}$$

$$\ell_{272} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{13} \end{array}\right]_{1082528} = \left[\begin{array}{cccc} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 28 \end{array}\right]_{1082528} = \mathbf{Pl}(0,4,0,28,0,1)_{38601}$$

$$\ell_{273} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{5} \end{array}\right]_{1083198} = \left[\begin{array}{cccc} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 5 \end{array}\right]_{1083198} = \mathbf{Pl}(0,25,0,5,0,1)_{37173}$$

$$\ell_{274} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{15} \end{array}\right]_{1082927} = \left[\begin{array}{cccc} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 31 \end{array}\right]_{1082927} = \mathbf{Pl}(0,16,0,31,0,1)_{38802}$$

$$\ell_{275} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{22} \end{array}\right]_{1082620} = \left[\begin{array}{cccc} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 21 \end{array}\right]_{1082620} = \mathbf{Pl}(0,7,0,21,0,1)_{38163}$$

$$\ell_{276} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{3} \end{array}\right]_{1082871} = \left[\begin{array}{cccc} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 8 \end{array}\right]_{1082871} = \mathbf{Pl}(0,15,0,8,0,1)_{37352}$$

$$\ell_{277} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{30} \end{array}\right]_{1082584} = \left[\begin{array}{cccc} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 18 \end{array}\right]_{1082584} = \mathbf{Pl}(0,6,0,18,0,1)_{37973}$$

$$\ell_{278} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{19} \end{array}\right]_{1082803} = \left[\begin{array}{cccc} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 6 \end{array}\right]_{1082803} = \mathbf{Pl}(0,13,0,6,0,1)_{37224}$$

$$\ell_{279} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{7} \end{array}\right]_{1082751} = \left[\begin{array}{cccc} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 20 \end{array}\right]_{1082751} = \mathbf{Pl}(0,11,0,20,0,1)_{38104}$$

$$\ell_{280} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta \end{array}\right]_{1083162} = \left[\begin{array}{cccc} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 2 \end{array}\right]_{1083162} = \mathbf{Pl}(0,24,0,2,0,1)_{36983}$$

$$\ell_{281} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{12} \end{array}\right]_{1082448} = \left[\begin{array}{cccc} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 14 \end{array}\right]_{1082448} = \mathbf{Pl}(0,2,0,14,0,1)_{37717}$$

$$\ell_{282} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{25} \end{array}\right]_{1083350} = \left[\begin{array}{cccc} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 25 \end{array}\right]_{1083350} = \mathbf{Pl}(0,29,0,25,0,1)_{38437}$$

$$\ell_{283} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^4 \end{bmatrix}_{1083374} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1083374} = \mathbf{Pl}(0,30,0,16,0,1)_{37871}$$

$$\ell_{284} = \begin{bmatrix} 0 & 1 & 0 & \eta^9 \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1083238} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1083238} = \mathbf{Pl}(0,26,0,12,0,1)_{37615}$$

$$\ell_{285} = \begin{bmatrix} 0 & 1 & 0 & \eta^3 \\ 0 & 0 & 1 & \eta^{14} \end{bmatrix}_{1082661} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 29 \end{bmatrix}_{1082661} = \mathbf{Pl}(0,8,0,29,0,1)_{38668}$$

$$\ell_{286} = \begin{bmatrix} 0 & 1 & 0 & \eta^5 \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1082560} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1082560} = \mathbf{Pl}(0,5,0,27,0,1)_{38539}$$

$$\ell_{287} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1082953} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1082953} = \mathbf{Pl}(0,17,0,24,0,1)_{38362}$$

$$\ell_{288} = \begin{bmatrix} 0 & 1 & 0 & \eta^6 \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1082717} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1082717} = \mathbf{Pl}(0,10,0,19,0,1)_{38040}$$

$$\ell_{289} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^2 \end{bmatrix}_{1083065} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1083065} = \mathbf{Pl}(0,21,0,4,0,1)_{37106}$$

$$\ell_{290} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1083414} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1083414} = \mathbf{Pl}(0,31,0,23,0,1)_{38313}$$

$$\ell_{291} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1082476} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1082476} = \mathbf{Pl}(0,3,0,9,0,1)_{37403}$$

$$\ell_{292} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1083017} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1083017} = \mathbf{Pl}(0,19,0,22,0,1)_{38238}$$

$$\ell_{293} = \begin{bmatrix} 0 & 1 & 0 & \eta^7 \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1083031} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1083031} = \mathbf{Pl}(0,20,0,3,0,1)_{37042}$$

$$\ell_{294} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1083270} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1083270} = \mathbf{Pl}(0,27,0,11,0,1)_{37553}$$

$$\ell_{295} = \begin{bmatrix} 1 & \eta^{21} & \eta^{10} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{601432} = \begin{bmatrix} 1 & 24 & 17 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{601432} = \mathbf{Pl}(0,17,0,24,1,0)_{4602}$$

$$\ell_{296} = \begin{bmatrix} 0 & 1 & \eta^{28} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083126} = \begin{bmatrix} 0 & 1 & 22 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083126} = \mathbf{Pl}(0,22,0,1,0,0)_{118}$$

$$\ell_{297} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^3 \end{bmatrix}_{1082409} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1082409} = \mathbf{Pl}(0,1,0,8,0,1)_{37338}$$

$$\ell_{298} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^2 \end{bmatrix}_{1082966} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1082966} = \mathbf{Pl}(0,18,0,4,0,1)_{37103}$$

$$\ell_{299} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1083319} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1083319} = \mathbf{Pl}(0,28,0,27,0,1)_{38562}$$

$$\ell_{300} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1082667} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1082667} = \mathbf{Pl}(0,9,0,2,0,1)_{36968}$$

$$\ell_{301} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1083136} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1083136} = \mathbf{Pl}(0,23,0,9,0,1)_{37423}$$

$$\ell_{302} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1082861} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1082861} = \mathbf{Pl}(0,14,0,31,0,1)_{38800}$$

$$\ell_{303} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1082779} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1082779} = \mathbf{Pl}(0,12,0,15,0,1)_{37790}$$

$$\ell_{304} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1083095} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1083095} = \mathbf{Pl}(0, 22, 0, 1, 0, 1)_{36918}$$

$$\ell_{305} = \begin{bmatrix} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{5} \end{bmatrix}_{1082505} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1082505} = \mathbf{Pl}(0, 4, 0, 5, 0, 1)_{37152}$$

$$\ell_{306} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1083215} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1083215} = \mathbf{Pl}(0, 25, 0, 22, 0, 1)_{38244}$$

$$\ell_{307} = \begin{bmatrix} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{7} \end{bmatrix}_{1082916} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 20 \end{bmatrix}_{1082916} = \mathbf{Pl}(0, 16, 0, 20, 0, 1)_{38109}$$

$$\ell_{308} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{14} \end{bmatrix}_{1082628} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 29 \end{bmatrix}_{1082628} = \mathbf{Pl}(0, 7, 0, 29, 0, 1)_{38667}$$

$$\ell_{309} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1082886} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1082886} = \mathbf{Pl}(0, 15, 0, 23, 0, 1)_{38297}$$

$$\ell_{310} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1082587} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1082587} = \mathbf{Pl}(0, 6, 0, 21, 0, 1)_{38162}$$

$$\ell_{311} = \begin{bmatrix} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1082804} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1082804} = \mathbf{Pl}(0, 13, 0, 7, 0, 1)_{37287}$$

$$\ell_{312} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1082749} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1082749} = \mathbf{Pl}(0, 11, 0, 18, 0, 1)_{37978}$$

$$\ell_{313} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1083190} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1083190} = \mathbf{Pl}(0, 24, 0, 30, 0, 1)_{38747}$$

$$\ell_{314} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{4} \end{bmatrix}_{1082450} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1082450} = \mathbf{Pl}(0, 2, 0, 16, 0, 1)_{37843}$$

$$\ell_{315} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1083344} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1083344} = \mathbf{Pl}(0, 29, 0, 19, 0, 1)_{38059}$$

$$\ell_{316} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1083369} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1083369} = \mathbf{Pl}(0, 30, 0, 11, 0, 1)_{37556}$$

$$\ell_{317} = \begin{bmatrix} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1083240} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1083240} = \mathbf{Pl}(0, 26, 0, 14, 0, 1)_{37741}$$

$$\ell_{318} = \begin{bmatrix} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{6} \end{bmatrix}_{1082642} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1082642} = \mathbf{Pl}(0, 8, 0, 10, 0, 1)_{37471}$$

$$\ell_{319} = \begin{bmatrix} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{8} \end{bmatrix}_{1082546} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1082546} = \mathbf{Pl}(0, 5, 0, 13, 0, 1)_{37657}$$

$$\ell_{320} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1082957} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1082957} = \mathbf{Pl}(0, 17, 0, 28, 0, 1)_{38614}$$

$$\ell_{321} = \begin{bmatrix} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{9} \end{bmatrix}_{1082724} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 26 \end{bmatrix}_{1082724} = \mathbf{Pl}(0, 10, 0, 26, 0, 1)_{38481}$$

$$\ell_{322} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{25} \end{bmatrix}_{1083086} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 25 \end{bmatrix}_{1083086} = \mathbf{Pl}(0, 21, 0, 25, 0, 1)_{38429}$$

$$\ell_{323} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1083394} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1083394} = \mathbf{Pl}(0, 31, 0, 3, 0, 1)_{37053}$$

$$\ell_{324} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1082491} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1082491} = \mathbf{Pl}(0, 3, 0, 24, 0, 1)_{38348}$$

$$\ell_{325} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{20} \end{array}\right]_{1083007} = \left[\begin{array}{cccc} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 12 \end{array}\right]_{1083007} = \mathbf{Pl}(0,19,0,12,0,1)_{37608}$$

$$\ell_{326} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{10} \end{array}\right]_{1083045} = \left[\begin{array}{cccc} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 17 \end{array}\right]_{1083045} = \mathbf{Pl}(0,20,0,17,0,1)_{37924}$$

$$\ell_{327} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{19} \end{array}\right]_{1083265} = \left[\begin{array}{cccc} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 6 \end{array}\right]_{1083265} = \mathbf{Pl}(0,27,0,6,0,1)_{37238}$$

$$\ell_{328} = \left[\begin{array}{cccc} 1 & \eta^{17} & \eta^{14} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1002035} = \left[\begin{array}{cccc} 1 & 19 & 29 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1002035} = \mathbf{Pl}(0,29,0,19,1,0)_{4299}$$

$$\ell_{329} = \left[\begin{array}{cccc} 0 & 1 & \eta^{2} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082532} = \left[\begin{array}{cccc} 0 & 1 & 4 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082532} = \mathbf{Pl}(0,4,0,1,0,0)_{100}$$

$$\ell_{330} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{29} \end{array}\right]_{1082410} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 9 \end{array}\right]_{1082410} = \mathbf{Pl}(0,1,0,9,0,1)_{37401}$$

$$\ell_{331} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{28} \end{array}\right]_{1082984} = \left[\begin{array}{cccc} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 22 \end{array}\right]_{1082984} = \mathbf{Pl}(0,18,0,22,0,1)_{38237}$$

$$\ell_{332} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{11} \end{array}\right]_{1083299} = \left[\begin{array}{cccc} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 7 \end{array}\right]_{1083299} = \mathbf{Pl}(0,28,0,7,0,1)_{37302}$$

$$\ell_{333} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{27} \end{array}\right]_{1082676} = \left[\begin{array}{cccc} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 11 \end{array}\right]_{1082676} = \mathbf{Pl}(0,9,0,11,0,1)_{37535}$$

$$\ell_{334} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{24} \end{array}\right]_{1083157} = \left[\begin{array}{cccc} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 30 \end{array}\right]_{1083157} = \mathbf{Pl}(0,23,0,30,0,1)_{38746}$$

$$\ell_{335} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{10} \end{array}\right]_{1082847} = \left[\begin{array}{cccc} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 17 \end{array}\right]_{1082847} = \mathbf{Pl}(0,14,0,17,0,1)_{37918}$$

$$\ell_{336} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{18} \end{array}\right]_{1082767} = \left[\begin{array}{cccc} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 3 \end{array}\right]_{1082767} = \mathbf{Pl}(0,12,0,3,0,1)_{37034}$$

$$\ell_{337} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{26} \end{array}\right]_{1083117} = \left[\begin{array}{cccc} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 23 \end{array}\right]_{1083117} = \mathbf{Pl}(0,22,0,23,0,1)_{38304}$$

$$\ell_{338} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082501} = \left[\begin{array}{cccc} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082501} = \mathbf{Pl}(0,4,0,1,0,1)_{36900}$$

$$\ell_{339} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{23} \end{array}\right]_{1083208} = \left[\begin{array}{cccc} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 15 \end{array}\right]_{1083208} = \mathbf{Pl}(0,25,0,15,0,1)_{37803}$$

$$\ell_{340} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{2} \end{array}\right]_{1082900} = \left[\begin{array}{cccc} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 4 \end{array}\right]_{1082900} = \mathbf{Pl}(0,16,0,4,0,1)_{37101}$$

$$\ell_{341} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{9} \end{array}\right]_{1082625} = \left[\begin{array}{cccc} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 26 \end{array}\right]_{1082625} = \mathbf{Pl}(0,7,0,26,0,1)_{38478}$$

$$\ell_{342} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{21} \end{array}\right]_{1082887} = \left[\begin{array}{cccc} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 24 \end{array}\right]_{1082887} = \mathbf{Pl}(0,15,0,24,0,1)_{38360}$$

$$\ell_{343} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{17} \end{array}\right]_{1082585} = \left[\begin{array}{cccc} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 19 \end{array}\right]_{1082585} = \mathbf{Pl}(0,6,0,19,0,1)_{38036}$$

$$\ell_{344} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{6} \end{array}\right]_{1082807} = \left[\begin{array}{cccc} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 10 \end{array}\right]_{1082807} = \mathbf{Pl}(0,13,0,10,0,1)_{37476}$$

$$\ell_{345} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{25} \end{array}\right]_{1082756} = \left[\begin{array}{cccc} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 25 \end{array}\right]_{1082756} = \mathbf{Pl}(0,11,0,25,0,1)_{38419}$$

$$\ell_{346} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{19} \end{array}\right]_{1083166} = \left[\begin{array}{cccc} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 6 \end{array}\right]_{1083166} = \mathbf{Pl}(0,24,0,6,0,1)_{37235}$$

$$\ell_{347} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{30} \end{array}\right]_{1082452} = \left[\begin{array}{cccc} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 18 \end{array}\right]_{1082452} = \mathbf{Pl}(0,2,0,18,0,1)_{37969}$$

$$\ell_{348} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{12} \end{array}\right]_{1083339} = \left[\begin{array}{cccc} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 14 \end{array}\right]_{1083339} = \mathbf{Pl}(0,29,0,14,0,1)_{37744}$$

$$\ell_{349} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{22} \end{array}\right]_{1083379} = \left[\begin{array}{cccc} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 21 \end{array}\right]_{1083379} = \mathbf{Pl}(0,30,0,21,0,1)_{38186}$$

$$\ell_{350} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{7} \end{array}\right]_{1083246} = \left[\begin{array}{cccc} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 20 \end{array}\right]_{1083246} = \mathbf{Pl}(0,26,0,20,0,1)_{38119}$$

$$\ell_{351} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta \end{array}\right]_{1082634} = \left[\begin{array}{cccc} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 2 \end{array}\right]_{1082634} = \mathbf{Pl}(0,8,0,2,0,1)_{36967}$$

$$\ell_{352} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{3} \end{array}\right]_{1082541} = \left[\begin{array}{cccc} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 8 \end{array}\right]_{1082541} = \mathbf{Pl}(0,5,0,8,0,1)_{37342}$$

$$\ell_{353} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{8} \end{array}\right]_{1082942} = \left[\begin{array}{cccc} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 13 \end{array}\right]_{1082942} = \mathbf{Pl}(0,17,0,13,0,1)_{37669}$$

$$\ell_{354} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{4} \end{array}\right]_{1082714} = \left[\begin{array}{cccc} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 16 \end{array}\right]_{1082714} = \mathbf{Pl}(0,10,0,16,0,1)_{37851}$$

$$\ell_{355} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{20} \end{array}\right]_{1083073} = \left[\begin{array}{cccc} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 12 \end{array}\right]_{1083073} = \mathbf{Pl}(0,21,0,12,0,1)_{37610}$$

$$\ell_{356} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{13} \end{array}\right]_{1083419} = \left[\begin{array}{cccc} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 28 \end{array}\right]_{1083419} = \mathbf{Pl}(0,31,0,28,0,1)_{38628}$$

$$\ell_{357} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{16} \end{array}\right]_{1082494} = \left[\begin{array}{cccc} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 27 \end{array}\right]_{1082494} = \mathbf{Pl}(0,3,0,27,0,1)_{38537}$$

$$\ell_{358} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{15} \end{array}\right]_{1083026} = \left[\begin{array}{cccc} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 31 \end{array}\right]_{1083026} = \mathbf{Pl}(0,19,0,31,0,1)_{38805}$$

$$\ell_{359} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{5} \end{array}\right]_{1083033} = \left[\begin{array}{cccc} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 5 \end{array}\right]_{1083033} = \mathbf{Pl}(0,20,0,5,0,1)_{37168}$$

$$\ell_{360} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{14} \end{array}\right]_{1083288} = \left[\begin{array}{cccc} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 29 \end{array}\right]_{1083288} = \mathbf{Pl}(0,27,0,29,0,1)_{38687}$$

$$\ell_{361} = \left[\begin{array}{cccc} 1 & \eta^{30} & \eta & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{87730} = \left[\begin{array}{cccc} 1 & 18 & 2 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{87730} = \mathbf{Pl}(0,2,0,18,1,0)_{4209}$$

$$\ell_{362} = \left[\begin{array}{cccc} 0 & 1 & \eta^{25} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1083225} = \left[\begin{array}{cccc} 0 & 1 & 25 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1083225} = \mathbf{Pl}(0,25,0,1,0,0)_{121}$$

$$\ell_{363} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{6} \end{array}\right]_{1082411} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 10 \end{array}\right]_{1082411} = \mathbf{Pl}(0,1,0,10,0,1)_{37464}$$

$$\ell_{364} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{5} \end{array}\right]_{1082967} = \left[\begin{array}{cccc} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 5 \end{array}\right]_{1082967} = \mathbf{Pl}(0,18,0,5,0,1)_{37166}$$

$$\ell_{365} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{19} \end{array}\right]_{1083298} = \left[\begin{array}{cccc} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 6 \end{array}\right]_{1083298} = \mathbf{Pl}(0,28,0,6,0,1)_{37239}$$

$$\ell_{366} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{4} \end{array}\right]_{1082681} = \left[\begin{array}{cccc} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 16 \end{array}\right]_{1082681} = \mathbf{Pl}(0,9,0,16,0,1)_{37850}$$

$$\ell_{367} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1083129} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1083129} = \mathbf{Pl}(0,23,0,2,0,1)_{36982}$$

$$\ell_{368} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1082833} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1082833} = \mathbf{Pl}(0,14,0,3,0,1)_{37036}$$

$$\ell_{369} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1082787} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1082787} = \mathbf{Pl}(0,12,0,23,0,1)_{38294}$$

$$\ell_{370} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^3 \end{bmatrix}_{1083102} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1083102} = \mathbf{Pl}(0,22,0,8,0,1)_{37359}$$

$$\ell_{371} = \begin{bmatrix} 0 & 1 & 0 & \eta^2 \\ 0 & 0 & 1 & \eta^8 \end{bmatrix}_{1082513} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1082513} = \mathbf{Pl}(0,4,0,13,0,1)_{37656}$$

$$\ell_{372} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1083194} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1083194} = \mathbf{Pl}(0,25,0,1,0,1)_{36921}$$

$$\ell_{373} = \begin{bmatrix} 0 & 1 & 0 & \eta^4 \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1082913} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1082913} = \mathbf{Pl}(0,16,0,17,0,1)_{37920}$$

$$\ell_{374} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1082618} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1082618} = \mathbf{Pl}(0,7,0,19,0,1)_{38037}$$

$$\ell_{375} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1082872} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1082872} = \mathbf{Pl}(0,15,0,9,0,1)_{37415}$$

$$\ell_{376} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{25} \end{bmatrix}_{1082591} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 25 \end{bmatrix}_{1082591} = \mathbf{Pl}(0,6,0,25,0,1)_{38414}$$

$$\ell_{377} = \begin{bmatrix} 0 & 1 & 0 & \eta^8 \\ 0 & 0 & 1 & \eta^{14} \end{bmatrix}_{1082826} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 29 \end{bmatrix}_{1082826} = \mathbf{Pl}(0,13,0,29,0,1)_{38673}$$

$$\ell_{378} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^2 \end{bmatrix}_{1082735} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1082735} = \mathbf{Pl}(0,11,0,4,0,1)_{37096}$$

$$\ell_{379} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1083171} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1083171} = \mathbf{Pl}(0,24,0,11,0,1)_{37550}$$

$$\ell_{380} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^7 \end{bmatrix}_{1082454} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 20 \end{bmatrix}_{1082454} = \mathbf{Pl}(0,2,0,20,0,1)_{38095}$$

$$\ell_{381} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1083337} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1083337} = \mathbf{Pl}(0,29,0,12,0,1)_{37618}$$

$$\ell_{382} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1083376} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1083376} = \mathbf{Pl}(0,30,0,18,0,1)_{37997}$$

$$\ell_{383} = \begin{bmatrix} 0 & 1 & 0 & \eta^9 \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1083257} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1083257} = \mathbf{Pl}(0,26,0,31,0,1)_{38812}$$

$$\ell_{384} = \begin{bmatrix} 0 & 1 & 0 & \eta^3 \\ 0 & 0 & 1 & \eta^9 \end{bmatrix}_{1082658} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 26 \end{bmatrix}_{1082658} = \mathbf{Pl}(0,8,0,26,0,1)_{38479}$$

$$\ell_{385} = \begin{bmatrix} 0 & 1 & 0 & \eta^5 \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1082540} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1082540} = \mathbf{Pl}(0,5,0,7,0,1)_{37279}$$

$$\ell_{386} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1082956} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1082956} = \mathbf{Pl}(0,17,0,27,0,1)_{38551}$$

$$\ell_{387} = \begin{bmatrix} 0 & 1 & 0 & \eta^6 \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1082712} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1082712} = \mathbf{Pl}(0,10,0,14,0,1)_{37725}$$

$$\ell_{388} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{28} \end{array}\right]_{1083083} = \left[\begin{array}{cccc} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 22 \end{array}\right]_{1083083} = \mathbf{Pl}(0,21,0,22,0,1)_{38240}$$

$$\ell_{389} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{21} \end{array}\right]_{1083415} = \left[\begin{array}{cccc} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 24 \end{array}\right]_{1083415} = \mathbf{Pl}(0,31,0,24,0,1)_{38376}$$

$$\ell_{390} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{24} \end{array}\right]_{1082497} = \left[\begin{array}{cccc} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 30 \end{array}\right]_{1082497} = \mathbf{Pl}(0,3,0,30,0,1)_{38726}$$

$$\ell_{391} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{23} \end{array}\right]_{1083010} = \left[\begin{array}{cccc} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 15 \end{array}\right]_{1083010} = \mathbf{Pl}(0,19,0,15,0,1)_{37797}$$

$$\ell_{392} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{13} \end{array}\right]_{1083056} = \left[\begin{array}{cccc} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 28 \end{array}\right]_{1083056} = \mathbf{Pl}(0,20,0,28,0,1)_{38617}$$

$$\ell_{393} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{22} \end{array}\right]_{1083280} = \left[\begin{array}{cccc} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 21 \end{array}\right]_{1083280} = \mathbf{Pl}(0,27,0,21,0,1)_{38183}$$

$$\ell_{394} = \left[\begin{array}{cccc} 1 & \eta^{3} & \eta^{28} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{753640} = \left[\begin{array}{cccc} 1 & 8 & 22 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{753640} = \mathbf{Pl}(0,22,0,8,1,0)_{3599}$$

$$\ell_{395} = \left[\begin{array}{cccc} 0 & 1 & \eta^{4} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082928} = \left[\begin{array}{cccc} 0 & 1 & 16 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082928} = \mathbf{Pl}(0,16,0,1,0,0)_{112}$$

$$\ell_{396} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{27} \end{array}\right]_{1082412} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 11 \end{array}\right]_{1082412} = \mathbf{Pl}(0,1,0,11,0,1)_{37527}$$

$$\ell_{397} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{26} \end{array}\right]_{1082985} = \left[\begin{array}{cccc} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 23 \end{array}\right]_{1082985} = \mathbf{Pl}(0,18,0,23,0,1)_{38300}$$

$$\ell_{398} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{9} \end{array}\right]_{1083318} = \left[\begin{array}{cccc} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 26 \end{array}\right]_{1083318} = \mathbf{Pl}(0,28,0,26,0,1)_{38499}$$

$$\ell_{399} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{25} \end{array}\right]_{1082690} = \left[\begin{array}{cccc} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 25 \end{array}\right]_{1082690} = \mathbf{Pl}(0,9,0,25,0,1)_{38417}$$

$$\ell_{400} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{22} \end{array}\right]_{1083148} = \left[\begin{array}{cccc} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 21 \end{array}\right]_{1083148} = \mathbf{Pl}(0,23,0,21,0,1)_{38179}$$

$$\ell_{401} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{8} \end{array}\right]_{1082843} = \left[\begin{array}{cccc} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 13 \end{array}\right]_{1082843} = \mathbf{Pl}(0,14,0,13,0,1)_{37666}$$

$$\ell_{402} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{16} \end{array}\right]_{1082791} = \left[\begin{array}{cccc} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 27 \end{array}\right]_{1082791} = \mathbf{Pl}(0,12,0,27,0,1)_{38546}$$

$$\ell_{403} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{24} \end{array}\right]_{1083124} = \left[\begin{array}{cccc} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 30 \end{array}\right]_{1083124} = \mathbf{Pl}(0,22,0,30,0,1)_{38745}$$

$$\ell_{404} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{29} \end{array}\right]_{1082509} = \left[\begin{array}{cccc} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 9 \end{array}\right]_{1082509} = \mathbf{Pl}(0,4,0,9,0,1)_{37404}$$

$$\ell_{405} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{21} \end{array}\right]_{1083217} = \left[\begin{array}{cccc} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 24 \end{array}\right]_{1083217} = \mathbf{Pl}(0,25,0,24,0,1)_{38370}$$

$$\ell_{406} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082897} = \left[\begin{array}{cccc} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082897} = \mathbf{Pl}(0,16,0,1,0,1)_{36912}$$

$$\ell_{407} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{7} \end{array}\right]_{1082619} = \left[\begin{array}{cccc} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 20 \end{array}\right]_{1082619} = \mathbf{Pl}(0,7,0,20,0,1)_{38100}$$

$$\ell_{408} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{19} \end{array}\right]_{1082869} = \left[\begin{array}{cccc} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 6 \end{array}\right]_{1082869} = \mathbf{Pl}(0,15,0,6,0,1)_{37226}$$

$$\ell_{409} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{15} \end{array}\right]_{1082597} = \left[\begin{array}{cccc} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 31 \end{array}\right]_{1082597} = \mathbf{Pl}(0,6,0,31,0,1)_{38792}$$

$$\ell_{410} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{4} \end{array}\right]_{1082813} = \left[\begin{array}{cccc} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 16 \end{array}\right]_{1082813} = \mathbf{Pl}(0,13,0,16,0,1)_{37854}$$

$$\ell_{411} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{23} \end{array}\right]_{1082746} = \left[\begin{array}{cccc} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 15 \end{array}\right]_{1082746} = \mathbf{Pl}(0,11,0,15,0,1)_{37789}$$

$$\ell_{412} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{17} \end{array}\right]_{1083179} = \left[\begin{array}{cccc} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 19 \end{array}\right]_{1083179} = \mathbf{Pl}(0,24,0,19,0,1)_{38054}$$

$$\ell_{413} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{28} \end{array}\right]_{1082456} = \left[\begin{array}{cccc} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 22 \end{array}\right]_{1082456} = \mathbf{Pl}(0,2,0,22,0,1)_{38221}$$

$$\ell_{414} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{10} \end{array}\right]_{1083342} = \left[\begin{array}{cccc} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 17 \end{array}\right]_{1083342} = \mathbf{Pl}(0,29,0,17,0,1)_{37933}$$

$$\ell_{415} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{20} \end{array}\right]_{1083370} = \left[\begin{array}{cccc} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 12 \end{array}\right]_{1083370} = \mathbf{Pl}(0,30,0,12,0,1)_{37619}$$

$$\ell_{416} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{5} \end{array}\right]_{1083231} = \left[\begin{array}{cccc} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 5 \end{array}\right]_{1083231} = \mathbf{Pl}(0,26,0,5,0,1)_{37174}$$

$$\ell_{417} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{30} \end{array}\right]_{1082650} = \left[\begin{array}{cccc} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 18 \end{array}\right]_{1082650} = \mathbf{Pl}(0,8,0,18,0,1)_{37975}$$

$$\ell_{418} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta \end{array}\right]_{1082535} = \left[\begin{array}{cccc} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 2 \end{array}\right]_{1082535} = \mathbf{Pl}(0,5,0,2,0,1)_{36964}$$

$$\ell_{419} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{6} \end{array}\right]_{1082939} = \left[\begin{array}{cccc} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 10 \end{array}\right]_{1082939} = \mathbf{Pl}(0,17,0,10,0,1)_{37480}$$

$$\ell_{420} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{2} \end{array}\right]_{1082702} = \left[\begin{array}{cccc} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 4 \end{array}\right]_{1082702} = \mathbf{Pl}(0,10,0,4,0,1)_{37095}$$

$$\ell_{421} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{18} \end{array}\right]_{1083064} = \left[\begin{array}{cccc} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 3 \end{array}\right]_{1083064} = \mathbf{Pl}(0,21,0,3,0,1)_{37043}$$

$$\ell_{422} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{11} \end{array}\right]_{1083398} = \left[\begin{array}{cccc} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 7 \end{array}\right]_{1083398} = \mathbf{Pl}(0,31,0,7,0,1)_{37305}$$

$$\ell_{423} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{14} \end{array}\right]_{1082496} = \left[\begin{array}{cccc} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 29 \end{array}\right]_{1082496} = \mathbf{Pl}(0,3,0,29,0,1)_{38663}$$

$$\ell_{424} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{13} \end{array}\right]_{1083023} = \left[\begin{array}{cccc} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 28 \end{array}\right]_{1083023} = \mathbf{Pl}(0,19,0,28,0,1)_{38616}$$

$$\ell_{425} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{3} \end{array}\right]_{1083036} = \left[\begin{array}{cccc} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 8 \end{array}\right]_{1083036} = \mathbf{Pl}(0,20,0,8,0,1)_{37357}$$

$$\ell_{426} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{12} \end{array}\right]_{1083273} = \left[\begin{array}{cccc} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 14 \end{array}\right]_{1083273} = \mathbf{Pl}(0,27,0,14,0,1)_{37742}$$

$$\ell_{427} = \left[\begin{array}{cccc} 1 & \eta^{29} & \eta^{2} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{145865} = \left[\begin{array}{cccc} 1 & 9 & 4 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{145865} = \mathbf{Pl}(0,4,0,9,1,0)_{3644}$$

$$\ell_{428} = \left[\begin{array}{cccc} 0 & 1 & \eta^{11} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082631} = \left[\begin{array}{cccc} 0 & 1 & 7 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082631} = \mathbf{Pl}(0,7,0,1,0,0)_{103}$$

$$\ell_{429} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{20} \end{array}\right]_{1082413} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 12 \end{array}\right]_{1082413} = \mathbf{Pl}(0,1,0,12,0,1)_{37590}$$

$$\ell_{430} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{19} \end{bmatrix}_{1082968} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{1082968} = \mathbf{Pl}(0, 18, 0, 6, 0, 1)_{37229}$$

$$\ell_{431} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{2} \end{bmatrix}_{1083296} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1083296} = \mathbf{Pl}(0, 28, 0, 4, 0, 1)_{37113}$$

$$\ell_{432} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1082668} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1082668} = \mathbf{Pl}(0, 9, 0, 3, 0, 1)_{37031}$$

$$\ell_{433} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1083158} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1083158} = \mathbf{Pl}(0, 23, 0, 31, 0, 1)_{38809}$$

$$\ell_{434} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1082832} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1082832} = \mathbf{Pl}(0, 14, 0, 2, 0, 1)_{36973}$$

$$\ell_{435} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{9} \end{bmatrix}_{1082790} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 26 \end{bmatrix}_{1082790} = \mathbf{Pl}(0, 12, 0, 26, 0, 1)_{38483}$$

$$\ell_{436} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1083113} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1083113} = \mathbf{Pl}(0, 22, 0, 19, 0, 1)_{38052}$$

$$\ell_{437} = \begin{bmatrix} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1082521} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1082521} = \mathbf{Pl}(0, 4, 0, 21, 0, 1)_{38160}$$

$$\ell_{438} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{14} \end{bmatrix}_{1083222} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 29 \end{bmatrix}_{1083222} = \mathbf{Pl}(0, 25, 0, 29, 0, 1)_{38685}$$

$$\ell_{439} = \begin{bmatrix} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1082926} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1082926} = \mathbf{Pl}(0, 16, 0, 30, 0, 1)_{38739}$$

$$\ell_{440} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082600} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082600} = \mathbf{Pl}(0, 7, 0, 1, 0, 1)_{36903}$$

$$\ell_{441} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1082877} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1082877} = \mathbf{Pl}(0, 15, 0, 14, 0, 1)_{37730}$$

$$\ell_{442} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{8} \end{bmatrix}_{1082579} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1082579} = \mathbf{Pl}(0, 6, 0, 13, 0, 1)_{37658}$$

$$\ell_{443} = \begin{bmatrix} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1082819} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1082819} = \mathbf{Pl}(0, 13, 0, 22, 0, 1)_{38232}$$

$$\ell_{444} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1082758} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1082758} = \mathbf{Pl}(0, 11, 0, 27, 0, 1)_{38545}$$

$$\ell_{445} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1083177} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1083177} = \mathbf{Pl}(0, 24, 0, 17, 0, 1)_{37928}$$

$$\ell_{446} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1082458} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1082458} = \mathbf{Pl}(0, 2, 0, 24, 0, 1)_{38347}$$

$$\ell_{447} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{3} \end{bmatrix}_{1083333} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1083333} = \mathbf{Pl}(0, 29, 0, 8, 0, 1)_{37366}$$

$$\ell_{448} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1083386} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1083386} = \mathbf{Pl}(0, 30, 0, 28, 0, 1)_{38627}$$

$$\ell_{449} = \begin{bmatrix} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1083235} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1083235} = \mathbf{Pl}(0, 26, 0, 9, 0, 1)_{37426}$$

$$\ell_{450} = \begin{bmatrix} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1082647} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1082647} = \mathbf{Pl}(0, 8, 0, 15, 0, 1)_{37786}$$

$$\ell_{451} = \begin{bmatrix} 0 & 1 & 0 & \eta^5 \\ 0 & 0 & 1 & \eta^{25} \end{bmatrix}_{1082558} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 25 \end{bmatrix}_{1082558} = \mathbf{Pl}(0,5,0,25,0,1)_{38413}$$

$$\ell_{452} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1082947} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1082947} = \mathbf{Pl}(0,17,0,18,0,1)_{37984}$$

$$\ell_{453} = \begin{bmatrix} 0 & 1 & 0 & \eta^6 \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1082721} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1082721} = \mathbf{Pl}(0,10,0,23,0,1)_{38292}$$

$$\ell_{454} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1083068} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1083068} = \mathbf{Pl}(0,21,0,7,0,1)_{37295}$$

$$\ell_{455} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^4 \end{bmatrix}_{1083407} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1083407} = \mathbf{Pl}(0,31,0,16,0,1)_{37872}$$

$$\ell_{456} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^7 \end{bmatrix}_{1082487} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 20 \end{bmatrix}_{1082487} = \mathbf{Pl}(0,3,0,20,0,1)_{38096}$$

$$\ell_{457} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^6 \end{bmatrix}_{1083005} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1083005} = \mathbf{Pl}(0,19,0,10,0,1)_{37482}$$

$$\ell_{458} = \begin{bmatrix} 0 & 1 & 0 & \eta^7 \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1083039} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1083039} = \mathbf{Pl}(0,20,0,11,0,1)_{37546}$$

$$\ell_{459} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^5 \end{bmatrix}_{1083264} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1083264} = \mathbf{Pl}(0,27,0,5,0,1)_{37175}$$

$$\ell_{460} = \begin{bmatrix} 1 & \eta^{10} & \eta^{21} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{830801} = \begin{bmatrix} 1 & 17 & 24 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{830801} = \mathbf{Pl}(0,24,0,17,1,0)_{4168}$$

$$\ell_{461} = \begin{bmatrix} 0 & 1 & \eta^{23} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082895} = \begin{bmatrix} 0 & 1 & 15 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082895} = \mathbf{Pl}(0,15,0,1,0,0)_{111}$$

$$\ell_{462} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^8 \end{bmatrix}_{1082414} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1082414} = \mathbf{Pl}(0,1,0,13,0,1)_{37653}$$

$$\ell_{463} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^7 \end{bmatrix}_{1082982} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 20 \end{bmatrix}_{1082982} = \mathbf{Pl}(0,18,0,20,0,1)_{38111}$$

$$\ell_{464} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1083316} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1083316} = \mathbf{Pl}(0,28,0,24,0,1)_{38373}$$

$$\ell_{465} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^6 \end{bmatrix}_{1082675} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1082675} = \mathbf{Pl}(0,9,0,10,0,1)_{37472}$$

$$\ell_{466} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^3 \end{bmatrix}_{1083135} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1083135} = \mathbf{Pl}(0,23,0,8,0,1)_{37360}$$

$$\ell_{467} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1082842} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1082842} = \mathbf{Pl}(0,14,0,12,0,1)_{37603}$$

$$\ell_{468} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1082786} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1082786} = \mathbf{Pl}(0,12,0,22,0,1)_{38231}$$

$$\ell_{469} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^5 \end{bmatrix}_{1083099} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1083099} = \mathbf{Pl}(0,22,0,5,0,1)_{37170}$$

$$\ell_{470} = \begin{bmatrix} 0 & 1 & 0 & \eta^2 \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1082517} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1082517} = \mathbf{Pl}(0,4,0,17,0,1)_{37908}$$

$$\ell_{471} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^2 \end{bmatrix}_{1083197} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1083197} = \mathbf{Pl}(0,25,0,4,0,1)_{37110}$$

$$\ell_{472} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^4 \\ 0 & 0 & 1 & \eta^{12} \end{array}\right]_{1082910} = \left[\begin{array}{cccc} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 14 \end{array}\right]_{1082910} = \mathbf{Pl}(0,16,0,14,0,1)_{37731}$$

$$\ell_{473} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{19} \end{array}\right]_{1082605} = \left[\begin{array}{cccc} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 6 \end{array}\right]_{1082605} = \mathbf{Pl}(0,7,0,6,0,1)_{37218}$$

$$\ell_{474} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082864} = \left[\begin{array}{cccc} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082864} = \mathbf{Pl}(0,15,0,1,0,1)_{36911}$$

$$\ell_{475} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{27} \end{array}\right]_{1082577} = \left[\begin{array}{cccc} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 11 \end{array}\right]_{1082577} = \mathbf{Pl}(0,6,0,11,0,1)_{37532}$$

$$\ell_{476} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^8 \\ 0 & 0 & 1 & \eta^{16} \end{array}\right]_{1082824} = \left[\begin{array}{cccc} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 27 \end{array}\right]_{1082824} = \mathbf{Pl}(0,13,0,27,0,1)_{38547}$$

$$\ell_{477} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^4 \end{array}\right]_{1082747} = \left[\begin{array}{cccc} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 16 \end{array}\right]_{1082747} = \mathbf{Pl}(0,11,0,16,0,1)_{37852}$$

$$\ell_{478} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{29} \end{array}\right]_{1083169} = \left[\begin{array}{cccc} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 9 \end{array}\right]_{1083169} = \mathbf{Pl}(0,24,0,9,0,1)_{37424}$$

$$\ell_{479} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^9 \end{array}\right]_{1082460} = \left[\begin{array}{cccc} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 26 \end{array}\right]_{1082460} = \mathbf{Pl}(0,2,0,26,0,1)_{38473}$$

$$\ell_{480} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{22} \end{array}\right]_{1083346} = \left[\begin{array}{cccc} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 21 \end{array}\right]_{1083346} = \mathbf{Pl}(0,29,0,21,0,1)_{38185}$$

$$\ell_{481} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta \end{array}\right]_{1083360} = \left[\begin{array}{cccc} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 2 \end{array}\right]_{1083360} = \mathbf{Pl}(0,30,0,2,0,1)_{36989}$$

$$\ell_{482} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^9 \\ 0 & 0 & 1 & \eta^{17} \end{array}\right]_{1083245} = \left[\begin{array}{cccc} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 19 \end{array}\right]_{1083245} = \mathbf{Pl}(0,26,0,19,0,1)_{38056}$$

$$\ell_{483} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^3 \\ 0 & 0 & 1 & \eta^{11} \end{array}\right]_{1082639} = \left[\begin{array}{cccc} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 7 \end{array}\right]_{1082639} = \mathbf{Pl}(0,8,0,7,0,1)_{37282}$$

$$\ell_{484} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^5 \\ 0 & 0 & 1 & \eta^{13} \end{array}\right]_{1082561} = \left[\begin{array}{cccc} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 28 \end{array}\right]_{1082561} = \mathbf{Pl}(0,5,0,28,0,1)_{38602}$$

$$\ell_{485} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{18} \end{array}\right]_{1082932} = \left[\begin{array}{cccc} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 3 \end{array}\right]_{1082932} = \mathbf{Pl}(0,17,0,3,0,1)_{37039}$$

$$\ell_{486} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^6 \\ 0 & 0 & 1 & \eta^{14} \end{array}\right]_{1082727} = \left[\begin{array}{cccc} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 29 \end{array}\right]_{1082727} = \mathbf{Pl}(0,10,0,29,0,1)_{38670}$$

$$\ell_{487} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{30} \end{array}\right]_{1083079} = \left[\begin{array}{cccc} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 18 \end{array}\right]_{1083079} = \mathbf{Pl}(0,21,0,18,0,1)_{37988}$$

$$\ell_{488} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{23} \end{array}\right]_{1083406} = \left[\begin{array}{cccc} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 15 \end{array}\right]_{1083406} = \mathbf{Pl}(0,31,0,15,0,1)_{37809}$$

$$\ell_{489} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{26} \end{array}\right]_{1082490} = \left[\begin{array}{cccc} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 23 \end{array}\right]_{1082490} = \mathbf{Pl}(0,3,0,23,0,1)_{38285}$$

$$\ell_{490} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{25} \end{array}\right]_{1083020} = \left[\begin{array}{cccc} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 25 \end{array}\right]_{1083020} = \mathbf{Pl}(0,19,0,25,0,1)_{38427}$$

$$\ell_{491} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^7 \\ 0 & 0 & 1 & \eta^{15} \end{array}\right]_{1083059} = \left[\begin{array}{cccc} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 31 \end{array}\right]_{1083059} = \mathbf{Pl}(0,20,0,31,0,1)_{38806}$$

$$\ell_{492} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{24} \end{array}\right]_{1083289} = \left[\begin{array}{cccc} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 30 \end{array}\right]_{1083289} = \mathbf{Pl}(0,27,0,30,0,1)_{38750}$$

$$\ell_{493} = \left[\begin{array}{cccc} 1 & \eta^4 & \eta^{27} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{390032} = \left[\begin{array}{cccc} 1 & 16 & 11 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{390032} = \mathbf{Pl}(0,11,0,16,1,0)_{4092}$$

$$\ell_{494} = \left[\begin{array}{cccc} 0 & 1 & \eta^{19} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082598} = \left[\begin{array}{cccc} 0 & 1 & 6 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082598} = \mathbf{Pl}(0,6,0,1,0,0)_{102}$$

$$\ell_{495} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{12} \end{array}\right]_{1082415} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 14 \end{array}\right]_{1082415} = \mathbf{Pl}(0,1,0,14,0,1)_{37716}$$

$$\ell_{496} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{11} \end{array}\right]_{1082969} = \left[\begin{array}{cccc} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 7 \end{array}\right]_{1082969} = \mathbf{Pl}(0,18,0,7,0,1)_{37292}$$

$$\ell_{497} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{25} \end{array}\right]_{1083317} = \left[\begin{array}{cccc} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 25 \end{array}\right]_{1083317} = \mathbf{Pl}(0,28,0,25,0,1)_{38436}$$

$$\ell_{498} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{10} \end{array}\right]_{1082682} = \left[\begin{array}{cccc} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 17 \end{array}\right]_{1082682} = \mathbf{Pl}(0,9,0,17,0,1)_{37913}$$

$$\ell_{499} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{7} \end{array}\right]_{1083147} = \left[\begin{array}{cccc} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 20 \end{array}\right]_{1083147} = \mathbf{Pl}(0,23,0,20,0,1)_{38116}$$

$$\ell_{500} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{24} \end{array}\right]_{1082860} = \left[\begin{array}{cccc} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 30 \end{array}\right]_{1082860} = \mathbf{Pl}(0,14,0,30,0,1)_{38737}$$

$$\ell_{501} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta \end{array}\right]_{1082766} = \left[\begin{array}{cccc} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 2 \end{array}\right]_{1082766} = \mathbf{Pl}(0,12,0,2,0,1)_{36971}$$

$$\ell_{502} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{9} \end{array}\right]_{1083120} = \left[\begin{array}{cccc} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 26 \end{array}\right]_{1083120} = \mathbf{Pl}(0,22,0,26,0,1)_{38493}$$

$$\ell_{503} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{14} \end{array}\right]_{1082529} = \left[\begin{array}{cccc} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 29 \end{array}\right]_{1082529} = \mathbf{Pl}(0,4,0,29,0,1)_{38664}$$

$$\ell_{504} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{6} \end{array}\right]_{1083203} = \left[\begin{array}{cccc} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 10 \end{array}\right]_{1083203} = \mathbf{Pl}(0,25,0,10,0,1)_{37488}$$

$$\ell_{505} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{16} \end{array}\right]_{1082923} = \left[\begin{array}{cccc} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 27 \end{array}\right]_{1082923} = \mathbf{Pl}(0,16,0,27,0,1)_{38550}$$

$$\ell_{506} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{23} \end{array}\right]_{1082614} = \left[\begin{array}{cccc} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 15 \end{array}\right]_{1082614} = \mathbf{Pl}(0,7,0,15,0,1)_{37785}$$

$$\ell_{507} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{4} \end{array}\right]_{1082879} = \left[\begin{array}{cccc} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 16 \end{array}\right]_{1082879} = \mathbf{Pl}(0,15,0,16,0,1)_{37856}$$

$$\ell_{508} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082567} = \left[\begin{array}{cccc} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082567} = \mathbf{Pl}(0,6,0,1,0,1)_{36902}$$

$$\ell_{509} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{20} \end{array}\right]_{1082809} = \left[\begin{array}{cccc} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 12 \end{array}\right]_{1082809} = \mathbf{Pl}(0,13,0,12,0,1)_{37602}$$

$$\ell_{510} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{8} \end{array}\right]_{1082744} = \left[\begin{array}{cccc} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 13 \end{array}\right]_{1082744} = \mathbf{Pl}(0,11,0,13,0,1)_{37663}$$

$$\ell_{511} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{2} \end{array}\right]_{1083164} = \left[\begin{array}{cccc} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 4 \end{array}\right]_{1083164} = \mathbf{Pl}(0,24,0,4,0,1)_{37109}$$

$$\ell_{512} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{13} \end{array}\right]_{1082462} = \left[\begin{array}{cccc} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 28 \end{array}\right]_{1082462} = \mathbf{Pl}(0,2,0,28,0,1)_{38599}$$

$$\ell_{513} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{26} \end{array}\right]_{1083348} = \left[\begin{array}{cccc} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 23 \end{array}\right]_{1083348} = \mathbf{Pl}(0,29,0,23,0,1)_{38311}$$

$$\ell_{514} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{5} \end{array}\right]_{1083363} = \left[\begin{array}{cccc} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 5 \end{array}\right]_{1083363} = \mathbf{Pl}(0,30,0,5,0,1)_{37178}$$

$$\ell_{515} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{21} \end{array}\right]_{1083250} = \left[\begin{array}{cccc} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 24 \end{array}\right]_{1083250} = \mathbf{Pl}(0,26,0,24,0,1)_{38371}$$

$$\ell_{516} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{15} \end{array}\right]_{1082663} = \left[\begin{array}{cccc} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 31 \end{array}\right]_{1082663} = \mathbf{Pl}(0,8,0,31,0,1)_{38794}$$

$$\ell_{517} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{17} \end{array}\right]_{1082552} = \left[\begin{array}{cccc} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 19 \end{array}\right]_{1082552} = \mathbf{Pl}(0,5,0,19,0,1)_{38035}$$

$$\ell_{518} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{22} \end{array}\right]_{1082950} = \left[\begin{array}{cccc} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 21 \end{array}\right]_{1082950} = \mathbf{Pl}(0,17,0,21,0,1)_{38173}$$

$$\ell_{519} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{18} \end{array}\right]_{1082701} = \left[\begin{array}{cccc} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 3 \end{array}\right]_{1082701} = \mathbf{Pl}(0,10,0,3,0,1)_{37032}$$

$$\ell_{520} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{3} \end{array}\right]_{1083069} = \left[\begin{array}{cccc} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 8 \end{array}\right]_{1083069} = \mathbf{Pl}(0,21,0,8,0,1)_{37358}$$

$$\ell_{521} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{27} \end{array}\right]_{1083402} = \left[\begin{array}{cccc} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 11 \end{array}\right]_{1083402} = \mathbf{Pl}(0,31,0,11,0,1)_{37557}$$

$$\ell_{522} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{30} \end{array}\right]_{1082485} = \left[\begin{array}{cccc} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 18 \end{array}\right]_{1082485} = \mathbf{Pl}(0,3,0,18,0,1)_{37970}$$

$$\ell_{523} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{29} \end{array}\right]_{1083004} = \left[\begin{array}{cccc} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 9 \end{array}\right]_{1083004} = \mathbf{Pl}(0,19,0,9,0,1)_{37419}$$

$$\ell_{524} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{19} \end{array}\right]_{1083034} = \left[\begin{array}{cccc} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 6 \end{array}\right]_{1083034} = \mathbf{Pl}(0,20,0,6,0,1)_{37231}$$

$$\ell_{525} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{28} \end{array}\right]_{1083281} = \left[\begin{array}{cccc} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 22 \end{array}\right]_{1083281} = \mathbf{Pl}(0,27,0,22,0,1)_{38246}$$

$$\ell_{526} = \left[\begin{array}{cccc} 1 & \eta^{6} & \eta^{25} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{857226} = \left[\begin{array}{cccc} 1 & 10 & 25 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{857226} = \mathbf{Pl}(0,25,0,10,1,0)_{3728}$$

$$\ell_{527} = \left[\begin{array}{cccc} 0 & 1 & \eta^{8} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082829} = \left[\begin{array}{cccc} 0 & 1 & 13 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082829} = \mathbf{Pl}(0,13,0,1,0,0)_{109}$$

$$\ell_{528} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{23} \end{array}\right]_{1082416} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 15 \end{array}\right]_{1082416} = \mathbf{Pl}(0,1,0,15,0,1)_{37779}$$

$$\ell_{529} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{22} \end{array}\right]_{1082983} = \left[\begin{array}{cccc} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 21 \end{array}\right]_{1082983} = \mathbf{Pl}(0,18,0,21,0,1)_{38174}$$

$$\ell_{530} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{5} \end{array}\right]_{1083297} = \left[\begin{array}{cccc} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 5 \end{array}\right]_{1083297} = \mathbf{Pl}(0,28,0,5,0,1)_{37176}$$

$$\ell_{531} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{21} \end{array}\right]_{1082689} = \left[\begin{array}{cccc} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 24 \end{array}\right]_{1082689} = \mathbf{Pl}(0,9,0,24,0,1)_{38354}$$

$$\ell_{532} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{18} \end{array}\right]_{1083130} = \left[\begin{array}{cccc} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 3 \end{array}\right]_{1083130} = \mathbf{Pl}(0,23,0,3,0,1)_{37045}$$

$$\ell_{533} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{4} \end{array}\right]_{1082846} = \left[\begin{array}{cccc} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 16 \end{array}\right]_{1082846} = \mathbf{Pl}(0,14,0,16,0,1)_{37855}$$

$$\ell_{534} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{12} \end{array}\right]_{1082778} = \left[\begin{array}{cccc} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 14 \end{array}\right]_{1082778} = \mathbf{Pl}(0,12,0,14,0,1)_{37727}$$

$$\ell_{535} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{20} \end{array}\right]_{1083106} = \left[\begin{array}{cccc} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 12 \end{array}\right]_{1083106} = \mathbf{Pl}(0,22,0,12,0,1)_{37611}$$

$$\ell_{536} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{25} \end{array}\right]_{1082525} = \left[\begin{array}{cccc} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 25 \end{array}\right]_{1082525} = \mathbf{Pl}(0,4,0,25,0,1)_{38412}$$

$$\ell_{537} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{17} \end{array}\right]_{1083212} = \left[\begin{array}{cccc} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 19 \end{array}\right]_{1083212} = \mathbf{Pl}(0,25,0,19,0,1)_{38055}$$

$$\ell_{538} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{27} \end{array}\right]_{1082907} = \left[\begin{array}{cccc} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 11 \end{array}\right]_{1082907} = \mathbf{Pl}(0,16,0,11,0,1)_{37542}$$

$$\ell_{539} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{3} \end{array}\right]_{1082607} = \left[\begin{array}{cccc} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 8 \end{array}\right]_{1082607} = \mathbf{Pl}(0,7,0,8,0,1)_{37344}$$

$$\ell_{540} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{15} \end{array}\right]_{1082894} = \left[\begin{array}{cccc} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 31 \end{array}\right]_{1082894} = \mathbf{Pl}(0,15,0,31,0,1)_{38801}$$

$$\ell_{541} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{11} \end{array}\right]_{1082573} = \left[\begin{array}{cccc} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 7 \end{array}\right]_{1082573} = \mathbf{Pl}(0,6,0,7,0,1)_{37280}$$

$$\ell_{542} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082798} = \left[\begin{array}{cccc} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082798} = \mathbf{Pl}(0,13,0,1,0,1)_{36909}$$

$$\ell_{543} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{19} \end{array}\right]_{1082737} = \left[\begin{array}{cccc} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 6 \end{array}\right]_{1082737} = \mathbf{Pl}(0,11,0,6,0,1)_{37222}$$

$$\ell_{544} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{13} \end{array}\right]_{1083188} = \left[\begin{array}{cccc} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 28 \end{array}\right]_{1083188} = \mathbf{Pl}(0,24,0,28,0,1)_{38621}$$

$$\ell_{545} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{24} \end{array}\right]_{1082464} = \left[\begin{array}{cccc} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 30 \end{array}\right]_{1082464} = \mathbf{Pl}(0,2,0,30,0,1)_{38725}$$

$$\ell_{546} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{6} \end{array}\right]_{1083335} = \left[\begin{array}{cccc} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 10 \end{array}\right]_{1083335} = \mathbf{Pl}(0,29,0,10,0,1)_{37492}$$

$$\ell_{547} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{16} \end{array}\right]_{1083385} = \left[\begin{array}{cccc} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 27 \end{array}\right]_{1083385} = \mathbf{Pl}(0,30,0,27,0,1)_{38564}$$

$$\ell_{548} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta \end{array}\right]_{1083228} = \left[\begin{array}{cccc} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 2 \end{array}\right]_{1083228} = \mathbf{Pl}(0,26,0,2,0,1)_{36985}$$

$$\ell_{549} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{26} \end{array}\right]_{1082655} = \left[\begin{array}{cccc} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 23 \end{array}\right]_{1082655} = \mathbf{Pl}(0,8,0,23,0,1)_{38290}$$

$$\ell_{550} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{28} \end{array}\right]_{1082555} = \left[\begin{array}{cccc} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 22 \end{array}\right]_{1082555} = \mathbf{Pl}(0,5,0,22,0,1)_{38224}$$

$$\ell_{551} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{2} \end{array}\right]_{1082933} = \left[\begin{array}{cccc} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 4 \end{array}\right]_{1082933} = \mathbf{Pl}(0,17,0,4,0,1)_{37102}$$

$$\ell_{552} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{29} \end{array}\right]_{1082707} = \left[\begin{array}{cccc} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 9 \end{array}\right]_{1082707} = \mathbf{Pl}(0,10,0,9,0,1)_{37410}$$

$$\ell_{553} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{14} \end{array}\right]_{1083090} = \left[\begin{array}{cccc} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 29 \end{array}\right]_{1083090} = \mathbf{Pl}(0,21,0,29,0,1)_{38681}$$

$$\ell_{554} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{7} \end{array}\right]_{1083411} = \left[\begin{array}{cccc} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 20 \end{array}\right]_{1083411} = \mathbf{Pl}(0,31,0,20,0,1)_{38124}$$

$$\ell_{555} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{10} \end{array}\right]_{1082484} = \left[\begin{array}{cccc} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 17 \end{array}\right]_{1082484} = \mathbf{Pl}(0,3,0,17,0,1)_{37907}$$

$$\ell_{556} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{9} \end{array} \right]_{1083021} = \left[\begin{array}{cccc} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 26 \end{array} \right]_{1083021} = \mathbf{Pl}(0,19,0,26,0,1)_{38490}$$

$$\ell_{557} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{30} \end{array} \right]_{1083046} = \left[\begin{array}{cccc} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 18 \end{array} \right]_{1083046} = \mathbf{Pl}(0,20,0,18,0,1)_{37987}$$

$$\ell_{558} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{8} \end{array} \right]_{1083272} = \left[\begin{array}{cccc} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 13 \end{array} \right]_{1083272} = \mathbf{Pl}(0,27,0,13,0,1)_{37679}$$

$$\ell_{559} = \left[\begin{array}{cccc} 1 & \eta^{27} & \eta^{4} & 0 \\ 0 & 0 & 0 & 1 \end{array} \right]_{553867} = \left[\begin{array}{cccc} 1 & 11 & 16 & 0 \\ 0 & 0 & 0 & 1 \end{array} \right]_{553867} = \mathbf{Pl}(0,16,0,11,1,0)_{3782}$$

$$\ell_{560} = \left[\begin{array}{cccc} 0 & 1 & \eta^{27} & 0 \\ 0 & 0 & 0 & 1 \end{array} \right]_{1082763} = \left[\begin{array}{cccc} 0 & 1 & 11 & 0 \\ 0 & 0 & 0 & 1 \end{array} \right]_{1082763} = \mathbf{Pl}(0,11,0,1,0,0)_{107}$$

$$\ell_{561} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{4} \end{array} \right]_{1082417} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 16 \end{array} \right]_{1082417} = \mathbf{Pl}(0,1,0,16,0,1)_{37842}$$

$$\ell_{562} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{3} \end{array} \right]_{1082970} = \left[\begin{array}{cccc} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 8 \end{array} \right]_{1082970} = \mathbf{Pl}(0,18,0,8,0,1)_{37355}$$

$$\ell_{563} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{17} \end{array} \right]_{1083311} = \left[\begin{array}{cccc} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 19 \end{array} \right]_{1083311} = \mathbf{Pl}(0,28,0,19,0,1)_{38058}$$

$$\ell_{564} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{2} \end{array} \right]_{1082669} = \left[\begin{array}{cccc} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 4 \end{array} \right]_{1082669} = \mathbf{Pl}(0,9,0,4,0,1)_{37094}$$

$$\ell_{565} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{30} \end{array} \right]_{1083145} = \left[\begin{array}{cccc} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 18 \end{array} \right]_{1083145} = \mathbf{Pl}(0,23,0,18,0,1)_{37990}$$

$$\ell_{566} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{16} \end{array} \right]_{1082857} = \left[\begin{array}{cccc} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 27 \end{array} \right]_{1082857} = \mathbf{Pl}(0,14,0,27,0,1)_{38548}$$

$$\ell_{567} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{24} \end{array} \right]_{1082794} = \left[\begin{array}{cccc} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 30 \end{array} \right]_{1082794} = \mathbf{Pl}(0,12,0,30,0,1)_{38735}$$

$$\ell_{568} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta \end{array} \right]_{1083096} = \left[\begin{array}{cccc} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 2 \end{array} \right]_{1083096} = \mathbf{Pl}(0,22,0,2,0,1)_{36981}$$

$$\ell_{569} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{6} \end{array} \right]_{1082510} = \left[\begin{array}{cccc} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 10 \end{array} \right]_{1082510} = \mathbf{Pl}(0,4,0,10,0,1)_{37467}$$

$$\ell_{570} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{29} \end{array} \right]_{1083202} = \left[\begin{array}{cccc} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 9 \end{array} \right]_{1083202} = \mathbf{Pl}(0,25,0,9,0,1)_{37425}$$

$$\ell_{571} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{8} \end{array} \right]_{1082909} = \left[\begin{array}{cccc} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 13 \end{array} \right]_{1082909} = \mathbf{Pl}(0,16,0,13,0,1)_{37668}$$

$$\ell_{572} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{15} \end{array} \right]_{1082630} = \left[\begin{array}{cccc} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 31 \end{array} \right]_{1082630} = \mathbf{Pl}(0,7,0,31,0,1)_{38793}$$

$$\ell_{573} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{27} \end{array} \right]_{1082874} = \left[\begin{array}{cccc} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 11 \end{array} \right]_{1082874} = \mathbf{Pl}(0,15,0,11,0,1)_{37541}$$

$$\ell_{574} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{23} \end{array} \right]_{1082581} = \left[\begin{array}{cccc} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 15 \end{array} \right]_{1082581} = \mathbf{Pl}(0,6,0,15,0,1)_{37784}$$

$$\ell_{575} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{12} \end{array} \right]_{1082811} = \left[\begin{array}{cccc} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 14 \end{array} \right]_{1082811} = \mathbf{Pl}(0,13,0,14,0,1)_{37728}$$

$$\ell_{576} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & 1 \end{array} \right]_{1082732} = \left[\begin{array}{cccc} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 1 \end{array} \right]_{1082732} = \mathbf{Pl}(0,11,0,1,0,1)_{36907}$$

$$\ell_{577} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{25} \end{array}\right]_{1083185} = \left[\begin{array}{cccc} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 25 \end{array}\right]_{1083185} = \mathbf{Pl}(0,24,0,25,0,1)_{38432}$$

$$\ell_{578} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{5} \end{array}\right]_{1082439} = \left[\begin{array}{cccc} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 5 \end{array}\right]_{1082439} = \mathbf{Pl}(0,2,0,5,0,1)_{37150}$$

$$\ell_{579} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{18} \end{array}\right]_{1083328} = \left[\begin{array}{cccc} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 3 \end{array}\right]_{1083328} = \mathbf{Pl}(0,29,0,3,0,1)_{37051}$$

$$\ell_{580} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{28} \end{array}\right]_{1083380} = \left[\begin{array}{cccc} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 22 \end{array}\right]_{1083380} = \mathbf{Pl}(0,30,0,22,0,1)_{38249}$$

$$\ell_{581} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{13} \end{array}\right]_{1083254} = \left[\begin{array}{cccc} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 28 \end{array}\right]_{1083254} = \mathbf{Pl}(0,26,0,28,0,1)_{38623}$$

$$\ell_{582} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{7} \end{array}\right]_{1082652} = \left[\begin{array}{cccc} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 20 \end{array}\right]_{1082652} = \mathbf{Pl}(0,8,0,20,0,1)_{38101}$$

$$\ell_{583} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{9} \end{array}\right]_{1082559} = \left[\begin{array}{cccc} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 26 \end{array}\right]_{1082559} = \mathbf{Pl}(0,5,0,26,0,1)_{38476}$$

$$\ell_{584} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{14} \end{array}\right]_{1082958} = \left[\begin{array}{cccc} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 29 \end{array}\right]_{1082958} = \mathbf{Pl}(0,17,0,29,0,1)_{38677}$$

$$\ell_{585} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{10} \end{array}\right]_{1082715} = \left[\begin{array}{cccc} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 17 \end{array}\right]_{1082715} = \mathbf{Pl}(0,10,0,17,0,1)_{37914}$$

$$\ell_{586} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{26} \end{array}\right]_{1083084} = \left[\begin{array}{cccc} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 23 \end{array}\right]_{1083084} = \mathbf{Pl}(0,21,0,23,0,1)_{38303}$$

$$\ell_{587} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{19} \end{array}\right]_{1083397} = \left[\begin{array}{cccc} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 6 \end{array}\right]_{1083397} = \mathbf{Pl}(0,31,0,6,0,1)_{37242}$$

$$\ell_{588} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{22} \end{array}\right]_{1082488} = \left[\begin{array}{cccc} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 21 \end{array}\right]_{1082488} = \mathbf{Pl}(0,3,0,21,0,1)_{38159}$$

$$\ell_{589} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{21} \end{array}\right]_{1083019} = \left[\begin{array}{cccc} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 24 \end{array}\right]_{1083019} = \mathbf{Pl}(0,19,0,24,0,1)_{38364}$$

$$\ell_{590} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{11} \end{array}\right]_{1083035} = \left[\begin{array}{cccc} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 7 \end{array}\right]_{1083035} = \mathbf{Pl}(0,20,0,7,0,1)_{37294}$$

$$\ell_{591} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{20} \end{array}\right]_{1083271} = \left[\begin{array}{cccc} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 12 \end{array}\right]_{1083271} = \mathbf{Pl}(0,27,0,12,0,1)_{37616}$$

$$\ell_{592} = \left[\begin{array}{cccc} 1 & \eta^{2} & \eta^{29} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{309700} = \left[\begin{array}{cccc} 1 & 4 & 9 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{309700} = \mathbf{Pl}(0,9,0,4,1,0)_{3334}$$

$$\ell_{593} = \left[\begin{array}{cccc} 0 & 1 & \eta^{21} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1083192} = \left[\begin{array}{cccc} 0 & 1 & 24 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1083192} = \mathbf{Pl}(0,24,0,1,0,0)_{120}$$

$$\ell_{594} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{10} \end{array}\right]_{1082418} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 17 \end{array}\right]_{1082418} = \mathbf{Pl}(0,1,0,17,0,1)_{37905}$$

$$\ell_{595} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{9} \end{array}\right]_{1082988} = \left[\begin{array}{cccc} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 26 \end{array}\right]_{1082988} = \mathbf{Pl}(0,18,0,26,0,1)_{38489}$$

$$\ell_{596} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{23} \end{array}\right]_{1083307} = \left[\begin{array}{cccc} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 15 \end{array}\right]_{1083307} = \mathbf{Pl}(0,28,0,15,0,1)_{37806}$$

$$\ell_{597} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{8} \end{array}\right]_{1082678} = \left[\begin{array}{cccc} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 13 \end{array}\right]_{1082678} = \mathbf{Pl}(0,9,0,13,0,1)_{37661}$$

$$\ell_{598} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{5} \end{bmatrix}_{1083132} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1083132} = \mathbf{Pl}(0,23,0,5,0,1)_{37171}$$

$$\ell_{599} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1082851} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1082851} = \mathbf{Pl}(0,14,0,21,0,1)_{38170}$$

$$\ell_{600} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1082782} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1082782} = \mathbf{Pl}(0,12,0,18,0,1)_{37979}$$

$$\ell_{601} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{7} \end{bmatrix}_{1083114} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 20 \end{bmatrix}_{1083114} = \mathbf{Pl}(0,22,0,20,0,1)_{38115}$$

$$\ell_{602} = \begin{bmatrix} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1082514} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1082514} = \mathbf{Pl}(0,4,0,14,0,1)_{37719}$$

$$\ell_{603} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{4} \end{bmatrix}_{1083209} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1083209} = \mathbf{Pl}(0,25,0,16,0,1)_{37866}$$

$$\ell_{604} = \begin{bmatrix} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{14} \end{bmatrix}_{1082925} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 29 \end{bmatrix}_{1082925} = \mathbf{Pl}(0,16,0,29,0,1)_{38676}$$

$$\ell_{605} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1082623} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1082623} = \mathbf{Pl}(0,7,0,24,0,1)_{38352}$$

$$\ell_{606} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{2} \end{bmatrix}_{1082867} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1082867} = \mathbf{Pl}(0,15,0,4,0,1)_{37100}$$

$$\ell_{607} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1082575} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1082575} = \mathbf{Pl}(0,6,0,9,0,1)_{37406}$$

$$\ell_{608} = \begin{bmatrix} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1082800} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1082800} = \mathbf{Pl}(0,13,0,3,0,1)_{37035}$$

$$\ell_{609} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{6} \end{bmatrix}_{1082741} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1082741} = \mathbf{Pl}(0,11,0,10,0,1)_{37474}$$

$$\ell_{610} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1083161} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1083161} = \mathbf{Pl}(0,24,0,1,0,1)_{36920}$$

$$\ell_{611} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1082441} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1082441} = \mathbf{Pl}(0,2,0,7,0,1)_{37276}$$

$$\ell_{612} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1083355} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1083355} = \mathbf{Pl}(0,29,0,30,0,1)_{38752}$$

$$\ell_{613} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{3} \end{bmatrix}_{1083366} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1083366} = \mathbf{Pl}(0,30,0,8,0,1)_{37367}$$

$$\ell_{614} = \begin{bmatrix} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{19} \end{bmatrix}_{1083232} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{1083232} = \mathbf{Pl}(0,26,0,6,0,1)_{37237}$$

$$\ell_{615} = \begin{bmatrix} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1082660} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1082660} = \mathbf{Pl}(0,8,0,28,0,1)_{38605}$$

$$\ell_{616} = \begin{bmatrix} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1082564} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1082564} = \mathbf{Pl}(0,5,0,31,0,1)_{38791}$$

$$\ell_{617} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1082941} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1082941} = \mathbf{Pl}(0,17,0,12,0,1)_{37606}$$

$$\ell_{618} = \begin{bmatrix} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1082725} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1082725} = \mathbf{Pl}(0,10,0,27,0,1)_{38544}$$

$$\ell_{619} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1083063} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1083063} = \mathbf{Pl}(0,21,0,2,0,1)_{36980}$$

$$\ell_{620} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{25} \end{bmatrix}_{1083416} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 25 \end{bmatrix}_{1083416} = \mathbf{Pl}(0,31,0,25,0,1)_{38439}$$

$$\ell_{621} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1082489} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1082489} = \mathbf{Pl}(0,3,0,22,0,1)_{38222}$$

$$\ell_{622} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1083006} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1083006} = \mathbf{Pl}(0,19,0,11,0,1)_{37545}$$

$$\ell_{623} = \begin{bmatrix} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1083047} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1083047} = \mathbf{Pl}(0,20,0,19,0,1)_{38050}$$

$$\ell_{624} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1083282} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1083282} = \mathbf{Pl}(0,27,0,23,0,1)_{38309}$$

$$\ell_{625} = \begin{bmatrix} 1 & \eta^{5} & \eta^{26} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{784293} = \begin{bmatrix} 1 & 5 & 23 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{784293} = \mathbf{Pl}(0,23,0,5,1,0)_{3411}$$

$$\ell_{626} = \begin{bmatrix} 0 & 1 & \eta & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082466} = \begin{bmatrix} 0 & 1 & 2 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082466} = \mathbf{Pl}(0,2,0,1,0,0)_{98}$$

$$\ell_{627} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1082419} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1082419} = \mathbf{Pl}(0,1,0,18,0,1)_{37968}$$

$$\ell_{628} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1082971} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1082971} = \mathbf{Pl}(0,18,0,9,0,1)_{37418}$$

$$\ell_{629} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1083306} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1083306} = \mathbf{Pl}(0,28,0,14,0,1)_{37743}$$

$$\ell_{630} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1082687} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1082687} = \mathbf{Pl}(0,9,0,22,0,1)_{38228}$$

$$\ell_{631} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{25} \end{bmatrix}_{1083152} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 25 \end{bmatrix}_{1083152} = \mathbf{Pl}(0,23,0,25,0,1)_{38431}$$

$$\ell_{632} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1082837} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1082837} = \mathbf{Pl}(0,14,0,7,0,1)_{37288}$$

$$\ell_{633} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{19} \end{bmatrix}_{1082770} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{1082770} = \mathbf{Pl}(0,12,0,6,0,1)_{37223}$$

$$\ell_{634} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1083105} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1083105} = \mathbf{Pl}(0,22,0,11,0,1)_{37548}$$

$$\ell_{635} = \begin{bmatrix} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1082502} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1082502} = \mathbf{Pl}(0,4,0,2,0,1)_{36963}$$

$$\ell_{636} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1083223} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1083223} = \mathbf{Pl}(0,25,0,30,0,1)_{38748}$$

$$\ell_{637} = \begin{bmatrix} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{3} \end{bmatrix}_{1082904} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1082904} = \mathbf{Pl}(0,16,0,8,0,1)_{37353}$$

$$\ell_{638} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1082616} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1082616} = \mathbf{Pl}(0,7,0,17,0,1)_{37911}$$

$$\ell_{639} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1082884} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1082884} = \mathbf{Pl}(0,15,0,21,0,1)_{38171}$$

$$\ell_{640} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1082569} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1082569} = \mathbf{Pl}(0,6,0,3,0,1)_{37028}$$

$$\ell_{641} = \begin{bmatrix} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{7} \end{bmatrix}_{1082817} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 20 \end{bmatrix}_{1082817} = \mathbf{Pl}(0,13,0,20,0,1)_{38106}$$

$$\ell_{642} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1082754} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1082754} = \mathbf{Pl}(0,11,0,23,0,1)_{38293}$$

$$\ell_{643} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1083172} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1083172} = \mathbf{Pl}(0,24,0,12,0,1)_{37613}$$

$$\ell_{644} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082435} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082435} = \mathbf{Pl}(0,2,0,1,0,1)_{36898}$$

$$\ell_{645} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1083353} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1083353} = \mathbf{Pl}(0,29,0,28,0,1)_{38626}$$

$$\ell_{646} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1083373} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1083373} = \mathbf{Pl}(0,30,0,15,0,1)_{37808}$$

$$\ell_{647} = \begin{bmatrix} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{8} \end{bmatrix}_{1083239} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1083239} = \mathbf{Pl}(0,26,0,13,0,1)_{37678}$$

$$\ell_{648} = \begin{bmatrix} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{2} \end{bmatrix}_{1082636} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1082636} = \mathbf{Pl}(0,8,0,4,0,1)_{37093}$$

$$\ell_{649} = \begin{bmatrix} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{4} \end{bmatrix}_{1082549} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1082549} = \mathbf{Pl}(0,5,0,16,0,1)_{37846}$$

$$\ell_{650} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{9} \end{bmatrix}_{1082955} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 26 \end{bmatrix}_{1082955} = \mathbf{Pl}(0,17,0,26,0,1)_{38488}$$

$$\ell_{651} = \begin{bmatrix} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{5} \end{bmatrix}_{1082703} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1082703} = \mathbf{Pl}(0,10,0,5,0,1)_{37158}$$

$$\ell_{652} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1083085} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1083085} = \mathbf{Pl}(0,21,0,24,0,1)_{38366}$$

$$\ell_{653} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{14} \end{bmatrix}_{1083420} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 29 \end{bmatrix}_{1083420} = \mathbf{Pl}(0,31,0,29,0,1)_{38691}$$

$$\ell_{654} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1082486} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1082486} = \mathbf{Pl}(0,3,0,19,0,1)_{38033}$$

$$\ell_{655} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1083022} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1083022} = \mathbf{Pl}(0,19,0,27,0,1)_{38553}$$

$$\ell_{656} = \begin{bmatrix} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{6} \end{bmatrix}_{1083038} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1083038} = \mathbf{Pl}(0,20,0,10,0,1)_{37483}$$

$$\ell_{657} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1083290} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1083290} = \mathbf{Pl}(0,27,0,31,0,1)_{38813}$$

$$\ell_{658} = \begin{bmatrix} 1 & \eta^{15} & \eta^{16} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{947071} = \begin{bmatrix} 1 & 31 & 27 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{947071} = \mathbf{Pl}(0,27,0,31,1,0)_{5053}$$

$$\ell_{659} = \begin{bmatrix} 0 & 1 & \eta^{14} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083357} = \begin{bmatrix} 0 & 1 & 29 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083357} = \mathbf{Pl}(0,29,0,1,0,0)_{125}$$

$$\ell_{660} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1082420} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1082420} = \mathbf{Pl}(0,1,0,19,0,1)_{38031}$$

$$\ell_{661} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1082989} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1082989} = \mathbf{Pl}(0, 18, 0, 27, 0, 1)_{38552}$$

$$\ell_{662} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1083310} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1083310} = \mathbf{Pl}(0, 28, 0, 18, 0, 1)_{37995}$$

$$\ell_{663} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1082696} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1082696} = \mathbf{Pl}(0, 9, 0, 31, 0, 1)_{38795}$$

$$\ell_{664} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1083141} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1083141} = \mathbf{Pl}(0, 23, 0, 14, 0, 1)_{37738}$$

$$\ell_{665} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1082839} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1082839} = \mathbf{Pl}(0, 14, 0, 9, 0, 1)_{37414}$$

$$\ell_{666} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{6} \end{bmatrix}_{1082774} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1082774} = \mathbf{Pl}(0, 12, 0, 10, 0, 1)_{37475}$$

$$\ell_{667} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{14} \end{bmatrix}_{1083123} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 29 \end{bmatrix}_{1083123} = \mathbf{Pl}(0, 22, 0, 29, 0, 1)_{38682}$$

$$\ell_{668} = \begin{bmatrix} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{19} \end{bmatrix}_{1082506} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{1082506} = \mathbf{Pl}(0, 4, 0, 6, 0, 1)_{37215}$$

$$\ell_{669} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1083200} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1083200} = \mathbf{Pl}(0, 25, 0, 7, 0, 1)_{37299}$$

$$\ell_{670} = \begin{bmatrix} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1082920} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1082920} = \mathbf{Pl}(0, 16, 0, 24, 0, 1)_{38361}$$

$$\ell_{671} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1082621} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1082621} = \mathbf{Pl}(0, 7, 0, 22, 0, 1)_{38226}$$

$$\ell_{672} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{9} \end{bmatrix}_{1082889} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 26 \end{bmatrix}_{1082889} = \mathbf{Pl}(0, 15, 0, 26, 0, 1)_{38486}$$

$$\ell_{673} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{5} \end{bmatrix}_{1082571} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1082571} = \mathbf{Pl}(0, 6, 0, 5, 0, 1)_{37154}$$

$$\ell_{674} = \begin{bmatrix} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{25} \end{bmatrix}_{1082822} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 25 \end{bmatrix}_{1082822} = \mathbf{Pl}(0, 13, 0, 25, 0, 1)_{38421}$$

$$\ell_{675} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1082759} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1082759} = \mathbf{Pl}(0, 11, 0, 28, 0, 1)_{38608}$$

$$\ell_{676} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{7} \end{bmatrix}_{1083180} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 20 \end{bmatrix}_{1083180} = \mathbf{Pl}(0, 24, 0, 20, 0, 1)_{38117}$$

$$\ell_{677} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1082437} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1082437} = \mathbf{Pl}(0, 2, 0, 3, 0, 1)_{37024}$$

$$\ell_{678} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1083326} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1083326} = \mathbf{Pl}(0, 29, 0, 1, 0, 1)_{36925}$$

$$\ell_{679} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1083375} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1083375} = \mathbf{Pl}(0, 30, 0, 17, 0, 1)_{37934}$$

$$\ell_{680} = \begin{bmatrix} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1083249} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1083249} = \mathbf{Pl}(0, 26, 0, 23, 0, 1)_{38308}$$

$$\ell_{681} = \begin{bmatrix} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1082644} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1082644} = \mathbf{Pl}(0, 8, 0, 12, 0, 1)_{37597}$$

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$$\ell_{682} = \begin{bmatrix} 0 & 1 & 0 & \eta^5 \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1082554} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1082554} = \mathbf{Pl}(0,5,0,21,0,1)_{38161}$$

$$\ell_{683} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1082940} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1082940} = \mathbf{Pl}(0,17,0,11,0,1)_{37543}$$

$$\ell_{684} = \begin{bmatrix} 0 & 1 & 0 & \eta^6 \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1082713} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1082713} = \mathbf{Pl}(0,10,0,15,0,1)_{37788}$$

$$\ell_{685} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^8 \end{bmatrix}_{1083074} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1083074} = \mathbf{Pl}(0,21,0,13,0,1)_{37673}$$

$$\ell_{686} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1083393} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1083393} = \mathbf{Pl}(0,31,0,2,0,1)_{36990}$$

$$\ell_{687} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^4 \end{bmatrix}_{1082483} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1082483} = \mathbf{Pl}(0,3,0,16,0,1)_{37844}$$

$$\ell_{688} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^3 \end{bmatrix}_{1083003} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1083003} = \mathbf{Pl}(0,19,0,8,0,1)_{37356}$$

$$\ell_{689} = \begin{bmatrix} 0 & 1 & 0 & \eta^7 \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1083058} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1083058} = \mathbf{Pl}(0,20,0,30,0,1)_{38743}$$

$$\ell_{690} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^2 \end{bmatrix}_{1083263} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1083263} = \mathbf{Pl}(0,27,0,4,0,1)_{37112}$$

$$\ell_{691} = \begin{bmatrix} 1 & \eta^{24} & \eta^7 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{709246} = \begin{bmatrix} 1 & 30 & 20 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{709246} = \mathbf{Pl}(0,20,0,30,1,0)_{4983}$$

$$\ell_{692} = \begin{bmatrix} 0 & 1 & \eta^{24} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083390} = \begin{bmatrix} 0 & 1 & 30 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083390} = \mathbf{Pl}(0,30,0,1,0,0)_{126}$$

$$\ell_{693} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^7 \end{bmatrix}_{1082421} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 20 \end{bmatrix}_{1082421} = \mathbf{Pl}(0,1,0,20,0,1)_{38094}$$

$$\ell_{694} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^6 \end{bmatrix}_{1082972} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1082972} = \mathbf{Pl}(0,18,0,10,0,1)_{37481}$$

$$\ell_{695} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1083304} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1083304} = \mathbf{Pl}(0,28,0,12,0,1)_{37617}$$

$$\ell_{696} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^5 \end{bmatrix}_{1082670} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1082670} = \mathbf{Pl}(0,9,0,5,0,1)_{37157}$$

$$\ell_{697} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^2 \end{bmatrix}_{1083131} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1083131} = \mathbf{Pl}(0,23,0,4,0,1)_{37108}$$

$$\ell_{698} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{19} \end{bmatrix}_{1082836} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{1082836} = \mathbf{Pl}(0,14,0,6,0,1)_{37225}$$

$$\ell_{699} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1082775} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1082775} = \mathbf{Pl}(0,12,0,11,0,1)_{37538}$$

$$\ell_{700} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^4 \end{bmatrix}_{1083110} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1083110} = \mathbf{Pl}(0,22,0,16,0,1)_{37863}$$

$$\ell_{701} = \begin{bmatrix} 0 & 1 & 0 & \eta^2 \\ 0 & 0 & 1 & \eta^9 \end{bmatrix}_{1082526} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 26 \end{bmatrix}_{1082526} = \mathbf{Pl}(0,4,0,26,0,1)_{38475}$$

$$\ell_{702} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1083195} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1083195} = \mathbf{Pl}(0,25,0,2,0,1)_{36984}$$

$$\ell_{703} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^4 \\ 0 & 0 & 1 & \eta^{11} \end{array}\right]_{1082903} = \left[\begin{array}{cccc} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 7 \end{array}\right]_{1082903} = \mathbf{Pl}(0,16,0,7,0,1)_{37290}$$

$$\ell_{704} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{18} \end{array}\right]_{1082602} = \left[\begin{array}{cccc} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 3 \end{array}\right]_{1082602} = \mathbf{Pl}(0,7,0,3,0,1)_{37029}$$

$$\ell_{705} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{30} \end{array}\right]_{1082881} = \left[\begin{array}{cccc} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 18 \end{array}\right]_{1082881} = \mathbf{Pl}(0,15,0,18,0,1)_{37982}$$

$$\ell_{706} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{26} \end{array}\right]_{1082589} = \left[\begin{array}{cccc} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 23 \end{array}\right]_{1082589} = \mathbf{Pl}(0,6,0,23,0,1)_{38288}$$

$$\ell_{707} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^8 \\ 0 & 0 & 1 & \eta^{15} \end{array}\right]_{1082828} = \left[\begin{array}{cccc} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 31 \end{array}\right]_{1082828} = \mathbf{Pl}(0,13,0,31,0,1)_{38799}$$

$$\ell_{708} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^3 \end{array}\right]_{1082739} = \left[\begin{array}{cccc} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 8 \end{array}\right]_{1082739} = \mathbf{Pl}(0,11,0,8,0,1)_{37348}$$

$$\ell_{709} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{28} \end{array}\right]_{1083182} = \left[\begin{array}{cccc} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 22 \end{array}\right]_{1083182} = \mathbf{Pl}(0,24,0,22,0,1)_{38243}$$

$$\ell_{710} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^8 \end{array}\right]_{1082447} = \left[\begin{array}{cccc} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 13 \end{array}\right]_{1082447} = \mathbf{Pl}(0,2,0,13,0,1)_{37654}$$

$$\ell_{711} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{21} \end{array}\right]_{1083349} = \left[\begin{array}{cccc} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 24 \end{array}\right]_{1083349} = \mathbf{Pl}(0,29,0,24,0,1)_{38374}$$

$$\ell_{712} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & 1 \end{array}\right]_{1083359} = \left[\begin{array}{cccc} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 1 \end{array}\right]_{1083359} = \mathbf{Pl}(0,30,0,1,0,1)_{36926}$$

$$\ell_{713} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^9 \\ 0 & 0 & 1 & \eta^{16} \end{array}\right]_{1083253} = \left[\begin{array}{cccc} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 27 \end{array}\right]_{1083253} = \mathbf{Pl}(0,26,0,27,0,1)_{38560}$$

$$\ell_{714} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^3 \\ 0 & 0 & 1 & \eta^{10} \end{array}\right]_{1082649} = \left[\begin{array}{cccc} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 17 \end{array}\right]_{1082649} = \mathbf{Pl}(0,8,0,17,0,1)_{37912}$$

$$\ell_{715} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^5 \\ 0 & 0 & 1 & \eta^{12} \end{array}\right]_{1082547} = \left[\begin{array}{cccc} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 14 \end{array}\right]_{1082547} = \mathbf{Pl}(0,5,0,14,0,1)_{37720}$$

$$\ell_{716} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{17} \end{array}\right]_{1082948} = \left[\begin{array}{cccc} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 19 \end{array}\right]_{1082948} = \mathbf{Pl}(0,17,0,19,0,1)_{38047}$$

$$\ell_{717} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^6 \\ 0 & 0 & 1 & \eta^{13} \end{array}\right]_{1082726} = \left[\begin{array}{cccc} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 28 \end{array}\right]_{1082726} = \mathbf{Pl}(0,10,0,28,0,1)_{38607}$$

$$\ell_{718} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{29} \end{array}\right]_{1083070} = \left[\begin{array}{cccc} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 9 \end{array}\right]_{1083070} = \mathbf{Pl}(0,21,0,9,0,1)_{37421}$$

$$\ell_{719} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{22} \end{array}\right]_{1083412} = \left[\begin{array}{cccc} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 21 \end{array}\right]_{1083412} = \mathbf{Pl}(0,31,0,21,0,1)_{38187}$$

$$\ell_{720} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{25} \end{array}\right]_{1082492} = \left[\begin{array}{cccc} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 25 \end{array}\right]_{1082492} = \mathbf{Pl}(0,3,0,25,0,1)_{38411}$$

$$\ell_{721} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{24} \end{array}\right]_{1083025} = \left[\begin{array}{cccc} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 30 \end{array}\right]_{1083025} = \mathbf{Pl}(0,19,0,30,0,1)_{38742}$$

$$\ell_{722} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^7 \\ 0 & 0 & 1 & \eta^{14} \end{array}\right]_{1083057} = \left[\begin{array}{cccc} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 29 \end{array}\right]_{1083057} = \mathbf{Pl}(0,20,0,29,0,1)_{38680}$$

$$\ell_{723} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{23} \end{array}\right]_{1083274} = \left[\begin{array}{cccc} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 15 \end{array}\right]_{1083274} = \mathbf{Pl}(0,27,0,15,0,1)_{37805}$$

$$\ell_{724} = \begin{bmatrix} 1 & \eta^{19} & \eta^{12} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{480934} = \begin{bmatrix} 1 & 6 & 14 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{480934} = \mathbf{Pl}(0,14,0,6,1,0)_{3465}$$

$$\ell_{725} = \begin{bmatrix} 0 & 1 & \eta^{9} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083258} = \begin{bmatrix} 0 & 1 & 26 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083258} = \mathbf{Pl}(0,26,0,1,0,0)_{122}$$

$$\ell_{726} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1082422} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1082422} = \mathbf{Pl}(0,1,0,21,0,1)_{38157}$$

$$\ell_{727} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1082986} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1082986} = \mathbf{Pl}(0,18,0,24,0,1)_{38363}$$

$$\ell_{728} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{4} \end{bmatrix}_{1083308} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1083308} = \mathbf{Pl}(0,28,0,16,0,1)_{37869}$$

$$\ell_{729} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1082677} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1082677} = \mathbf{Pl}(0,9,0,12,0,1)_{37598}$$

$$\ell_{730} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1083146} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1083146} = \mathbf{Pl}(0,23,0,19,0,1)_{38053}$$

$$\ell_{731} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{3} \end{bmatrix}_{1082838} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1082838} = \mathbf{Pl}(0,14,0,8,0,1)_{37351}$$

$$\ell_{732} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1082771} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1082771} = \mathbf{Pl}(0,12,0,7,0,1)_{37286}$$

$$\ell_{733} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{19} \end{bmatrix}_{1083100} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{1083100} = \mathbf{Pl}(0,22,0,6,0,1)_{37233}$$

$$\ell_{734} = \begin{bmatrix} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1082530} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1082530} = \mathbf{Pl}(0,4,0,30,0,1)_{38727}$$

$$\ell_{735} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1083220} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1083220} = \mathbf{Pl}(0,25,0,27,0,1)_{38559}$$

$$\ell_{736} = \begin{bmatrix} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1082919} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1082919} = \mathbf{Pl}(0,16,0,23,0,1)_{38298}$$

$$\ell_{737} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{2} \end{bmatrix}_{1082603} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1082603} = \mathbf{Pl}(0,7,0,4,0,1)_{37092}$$

$$\ell_{738} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{14} \end{bmatrix}_{1082892} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 29 \end{bmatrix}_{1082892} = \mathbf{Pl}(0,15,0,29,0,1)_{38675}$$

$$\ell_{739} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1082583} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1082583} = \mathbf{Pl}(0,6,0,17,0,1)_{37910}$$

$$\ell_{740} = \begin{bmatrix} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1082815} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1082815} = \mathbf{Pl}(0,13,0,18,0,1)_{37980}$$

$$\ell_{741} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1082734} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1082734} = \mathbf{Pl}(0,11,0,3,0,1)_{37033}$$

$$\ell_{742} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1083174} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1083174} = \mathbf{Pl}(0,24,0,14,0,1)_{37739}$$

$$\ell_{743} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1082449} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1082449} = \mathbf{Pl}(0,2,0,15,0,1)_{37780}$$

$$\ell_{744} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{5} \end{bmatrix}_{1083330} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1083330} = \mathbf{Pl}(0,29,0,5,0,1)_{37177}$$

$$\ell_{745} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1083389} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1083389} = \mathbf{Pl}(0,30,0,31,0,1)_{38816}$$

$$\ell_{746} = \begin{bmatrix} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1083227} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1083227} = \mathbf{Pl}(0,26,0,1,0,1)_{36922}$$

$$\ell_{747} = \begin{bmatrix} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{25} \end{bmatrix}_{1082657} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 25 \end{bmatrix}_{1082657} = \mathbf{Pl}(0,8,0,25,0,1)_{38416}$$

$$\ell_{748} = \begin{bmatrix} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1082544} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1082544} = \mathbf{Pl}(0,5,0,11,0,1)_{37531}$$

$$\ell_{749} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1082931} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1082931} = \mathbf{Pl}(0,17,0,2,0,1)_{36976}$$

$$\ell_{750} = \begin{bmatrix} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1082720} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1082720} = \mathbf{Pl}(0,10,0,22,0,1)_{38229}$$

$$\ell_{751} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1083089} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1083089} = \mathbf{Pl}(0,21,0,28,0,1)_{38618}$$

$$\ell_{752} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{6} \end{bmatrix}_{1083401} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1083401} = \mathbf{Pl}(0,31,0,10,0,1)_{37494}$$

$$\ell_{753} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{9} \end{bmatrix}_{1082493} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 26 \end{bmatrix}_{1082493} = \mathbf{Pl}(0,3,0,26,0,1)_{38474}$$

$$\ell_{754} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{8} \end{bmatrix}_{1083008} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1083008} = \mathbf{Pl}(0,19,0,13,0,1)_{37671}$$

$$\ell_{755} = \begin{bmatrix} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1083037} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1083037} = \mathbf{Pl}(0,20,0,9,0,1)_{37420}$$

$$\ell_{756} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{7} \end{bmatrix}_{1083279} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 20 \end{bmatrix}_{1083279} = \mathbf{Pl}(0,27,0,20,0,1)_{38120}$$

$$\ell_{757} = \begin{bmatrix} 1 & \eta^{11} & \eta^{20} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{414343} = \begin{bmatrix} 1 & 7 & 12 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{414343} = \mathbf{Pl}(0,12,0,7,1,0)_{3526}$$

$$\ell_{758} = \begin{bmatrix} 0 & 1 & \eta^{3} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082664} = \begin{bmatrix} 0 & 1 & 8 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082664} = \mathbf{Pl}(0,8,0,1,0,0)_{104}$$

$$\ell_{759} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1082423} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1082423} = \mathbf{Pl}(0,1,0,22,0,1)_{38220}$$

$$\ell_{760} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1082973} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1082973} = \mathbf{Pl}(0,18,0,11,0,1)_{37544}$$

$$\ell_{761} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1083309} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1083309} = \mathbf{Pl}(0,28,0,17,0,1)_{37932}$$

$$\ell_{762} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1082688} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1082688} = \mathbf{Pl}(0,9,0,23,0,1)_{38291}$$

$$\ell_{763} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1083142} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1083142} = \mathbf{Pl}(0,23,0,15,0,1)_{37801}$$

$$\ell_{764} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{9} \end{bmatrix}_{1082856} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 26 \end{bmatrix}_{1082856} = \mathbf{Pl}(0,14,0,26,0,1)_{38485}$$

$$\ell_{765} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1082783} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1082783} = \mathbf{Pl}(0,12,0,19,0,1)_{38042}$$

$$\ell_{766} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{25} \end{array}\right]_{1083119} = \left[\begin{array}{cccc} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 25 \end{array}\right]_{1083119} = \mathbf{Pl}(0, 22, 0, 25, 0, 1)_{38430}$$

$$\ell_{767} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{30} \end{array}\right]_{1082518} = \left[\begin{array}{cccc} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 18 \end{array}\right]_{1082518} = \mathbf{Pl}(0, 4, 0, 18, 0, 1)_{37971}$$

$$\ell_{768} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{22} \end{array}\right]_{1083214} = \left[\begin{array}{cccc} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 21 \end{array}\right]_{1083214} = \mathbf{Pl}(0, 25, 0, 21, 0, 1)_{38181}$$

$$\ell_{769} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta \end{array}\right]_{1082898} = \left[\begin{array}{cccc} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 2 \end{array}\right]_{1082898} = \mathbf{Pl}(0, 16, 0, 2, 0, 1)_{36975}$$

$$\ell_{770} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{8} \end{array}\right]_{1082612} = \left[\begin{array}{cccc} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 13 \end{array}\right]_{1082612} = \mathbf{Pl}(0, 7, 0, 13, 0, 1)_{37659}$$

$$\ell_{771} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{20} \end{array}\right]_{1082875} = \left[\begin{array}{cccc} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 12 \end{array}\right]_{1082875} = \mathbf{Pl}(0, 15, 0, 12, 0, 1)_{37604}$$

$$\ell_{772} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{16} \end{array}\right]_{1082593} = \left[\begin{array}{cccc} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 27 \end{array}\right]_{1082593} = \mathbf{Pl}(0, 6, 0, 27, 0, 1)_{38540}$$

$$\ell_{773} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{5} \end{array}\right]_{1082802} = \left[\begin{array}{cccc} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 5 \end{array}\right]_{1082802} = \mathbf{Pl}(0, 13, 0, 5, 0, 1)_{37161}$$

$$\ell_{774} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{24} \end{array}\right]_{1082761} = \left[\begin{array}{cccc} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 30 \end{array}\right]_{1082761} = \mathbf{Pl}(0, 11, 0, 30, 0, 1)_{38734}$$

$$\ell_{775} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{18} \end{array}\right]_{1083163} = \left[\begin{array}{cccc} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 3 \end{array}\right]_{1083163} = \mathbf{Pl}(0, 24, 0, 3, 0, 1)_{37046}$$

$$\ell_{776} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{29} \end{array}\right]_{1082443} = \left[\begin{array}{cccc} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 9 \end{array}\right]_{1082443} = \mathbf{Pl}(0, 2, 0, 9, 0, 1)_{37402}$$

$$\ell_{777} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{11} \end{array}\right]_{1083332} = \left[\begin{array}{cccc} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 7 \end{array}\right]_{1083332} = \mathbf{Pl}(0, 29, 0, 7, 0, 1)_{37303}$$

$$\ell_{778} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{21} \end{array}\right]_{1083382} = \left[\begin{array}{cccc} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 24 \end{array}\right]_{1083382} = \mathbf{Pl}(0, 30, 0, 24, 0, 1)_{38375}$$

$$\ell_{779} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{6} \end{array}\right]_{1083236} = \left[\begin{array}{cccc} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 10 \end{array}\right]_{1083236} = \mathbf{Pl}(0, 26, 0, 10, 0, 1)_{37489}$$

$$\ell_{780} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082633} = \left[\begin{array}{cccc} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082633} = \mathbf{Pl}(0, 8, 0, 1, 0, 1)_{36904}$$

$$\ell_{781} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{2} \end{array}\right]_{1082537} = \left[\begin{array}{cccc} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 4 \end{array}\right]_{1082537} = \mathbf{Pl}(0, 5, 0, 4, 0, 1)_{37090}$$

$$\ell_{782} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{7} \end{array}\right]_{1082949} = \left[\begin{array}{cccc} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 20 \end{array}\right]_{1082949} = \mathbf{Pl}(0, 17, 0, 20, 0, 1)_{38110}$$

$$\ell_{783} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{3} \end{array}\right]_{1082706} = \left[\begin{array}{cccc} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 8 \end{array}\right]_{1082706} = \mathbf{Pl}(0, 10, 0, 8, 0, 1)_{37347}$$

$$\ell_{784} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{19} \end{array}\right]_{1083067} = \left[\begin{array}{cccc} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 6 \end{array}\right]_{1083067} = \mathbf{Pl}(0, 21, 0, 6, 0, 1)_{37232}$$

$$\ell_{785} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{12} \end{array}\right]_{1083405} = \left[\begin{array}{cccc} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 14 \end{array}\right]_{1083405} = \mathbf{Pl}(0, 31, 0, 14, 0, 1)_{37746}$$

$$\ell_{786} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{15} \end{array}\right]_{1082498} = \left[\begin{array}{cccc} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 31 \end{array}\right]_{1082498} = \mathbf{Pl}(0, 3, 0, 31, 0, 1)_{38789}$$

$$\ell_{787} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{14} \end{array}\right]_{1083024} = \left[\begin{array}{cccc} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 29 \end{array}\right]_{1083024} = \mathbf{Pl}(0,19,0,29,0,1)_{38679}$$

$$\ell_{788} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{4} \end{array}\right]_{1083044} = \left[\begin{array}{cccc} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 16 \end{array}\right]_{1083044} = \mathbf{Pl}(0,20,0,16,0,1)_{37861}$$

$$\ell_{789} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{13} \end{array}\right]_{1083287} = \left[\begin{array}{cccc} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 28 \end{array}\right]_{1083287} = \mathbf{Pl}(0,27,0,28,0,1)_{38624}$$

$$\ell_{790} = \left[\begin{array}{cccc} 1 & \eta^{14} & \eta^{17} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{674365} = \left[\begin{array}{cccc} 1 & 29 & 19 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{674365} = \mathbf{Pl}(0,19,0,29,1,0)_{4919}$$

$$\ell_{791} = \left[\begin{array}{cccc} 0 & 1 & \eta^{5} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082565} = \left[\begin{array}{cccc} 0 & 1 & 5 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082565} = \mathbf{Pl}(0,5,0,1,0,0)_{101}$$

$$\ell_{792} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{26} \end{array}\right]_{1082424} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 23 \end{array}\right]_{1082424} = \mathbf{Pl}(0,1,0,23,0,1)_{38283}$$

$$\ell_{793} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{25} \end{array}\right]_{1082987} = \left[\begin{array}{cccc} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 25 \end{array}\right]_{1082987} = \mathbf{Pl}(0,18,0,25,0,1)_{38426}$$

$$\ell_{794} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{8} \end{array}\right]_{1083305} = \left[\begin{array}{cccc} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 13 \end{array}\right]_{1083305} = \mathbf{Pl}(0,28,0,13,0,1)_{37680}$$

$$\ell_{795} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{24} \end{array}\right]_{1082695} = \left[\begin{array}{cccc} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 30 \end{array}\right]_{1082695} = \mathbf{Pl}(0,9,0,30,0,1)_{38732}$$

$$\ell_{796} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{21} \end{array}\right]_{1083151} = \left[\begin{array}{cccc} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 24 \end{array}\right]_{1083151} = \mathbf{Pl}(0,23,0,24,0,1)_{38368}$$

$$\ell_{797} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{7} \end{array}\right]_{1082850} = \left[\begin{array}{cccc} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 20 \end{array}\right]_{1082850} = \mathbf{Pl}(0,14,0,20,0,1)_{38107}$$

$$\ell_{798} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{15} \end{array}\right]_{1082795} = \left[\begin{array}{cccc} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 31 \end{array}\right]_{1082795} = \mathbf{Pl}(0,12,0,31,0,1)_{38798}$$

$$\ell_{799} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{23} \end{array}\right]_{1083109} = \left[\begin{array}{cccc} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 15 \end{array}\right]_{1083109} = \mathbf{Pl}(0,22,0,15,0,1)_{37800}$$

$$\ell_{800} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{28} \end{array}\right]_{1082522} = \left[\begin{array}{cccc} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 22 \end{array}\right]_{1082522} = \mathbf{Pl}(0,4,0,22,0,1)_{38223}$$

$$\ell_{801} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{20} \end{array}\right]_{1083205} = \left[\begin{array}{cccc} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 12 \end{array}\right]_{1083205} = \mathbf{Pl}(0,25,0,12,0,1)_{37614}$$

$$\ell_{802} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{30} \end{array}\right]_{1082914} = \left[\begin{array}{cccc} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 18 \end{array}\right]_{1082914} = \mathbf{Pl}(0,16,0,18,0,1)_{37983}$$

$$\ell_{803} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{6} \end{array}\right]_{1082609} = \left[\begin{array}{cccc} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 10 \end{array}\right]_{1082609} = \mathbf{Pl}(0,7,0,10,0,1)_{37470}$$

$$\ell_{804} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{18} \end{array}\right]_{1082866} = \left[\begin{array}{cccc} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 3 \end{array}\right]_{1082866} = \mathbf{Pl}(0,15,0,3,0,1)_{37037}$$

$$\ell_{805} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{14} \end{array}\right]_{1082595} = \left[\begin{array}{cccc} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 29 \end{array}\right]_{1082595} = \mathbf{Pl}(0,6,0,29,0,1)_{38666}$$

$$\ell_{806} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{3} \end{array}\right]_{1082805} = \left[\begin{array}{cccc} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 8 \end{array}\right]_{1082805} = \mathbf{Pl}(0,13,0,8,0,1)_{37350}$$

$$\ell_{807} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{22} \end{array}\right]_{1082752} = \left[\begin{array}{cccc} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 21 \end{array}\right]_{1082752} = \mathbf{Pl}(0,11,0,21,0,1)_{38167}$$

$$\ell_{808} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1083187} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1083187} = \mathbf{Pl}(0, 24, 0, 27, 0, 1)_{38558}$$

$$\ell_{809} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1082445} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1082445} = \mathbf{Pl}(0, 2, 0, 11, 0, 1)_{37528}$$

$$\ell_{810} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{9} \end{bmatrix}_{1083351} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 26 \end{bmatrix}_{1083351} = \mathbf{Pl}(0, 29, 0, 26, 0, 1)_{38500}$$

$$\ell_{811} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{19} \end{bmatrix}_{1083364} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{1083364} = \mathbf{Pl}(0, 30, 0, 6, 0, 1)_{37241}$$

$$\ell_{812} = \begin{bmatrix} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{4} \end{bmatrix}_{1083242} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1083242} = \mathbf{Pl}(0, 26, 0, 16, 0, 1)_{37867}$$

$$\ell_{813} = \begin{bmatrix} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1082641} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1082641} = \mathbf{Pl}(0, 8, 0, 9, 0, 1)_{37408}$$

$$\ell_{814} = \begin{bmatrix} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082534} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082534} = \mathbf{Pl}(0, 5, 0, 1, 0, 1)_{36901}$$

$$\ell_{815} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{5} \end{bmatrix}_{1082934} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1082934} = \mathbf{Pl}(0, 17, 0, 5, 0, 1)_{37165}$$

$$\ell_{816} = \begin{bmatrix} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1082700} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1082700} = \mathbf{Pl}(0, 10, 0, 2, 0, 1)_{36969}$$

$$\ell_{817} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1083080} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1083080} = \mathbf{Pl}(0, 21, 0, 19, 0, 1)_{38051}$$

$$\ell_{818} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1083408} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1083408} = \mathbf{Pl}(0, 31, 0, 17, 0, 1)_{37935}$$

$$\ell_{819} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1082495} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1082495} = \mathbf{Pl}(0, 3, 0, 28, 0, 1)_{38600}$$

$$\ell_{820} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1083009} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1083009} = \mathbf{Pl}(0, 19, 0, 14, 0, 1)_{37734}$$

$$\ell_{821} = \begin{bmatrix} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{2} \end{bmatrix}_{1083032} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1083032} = \mathbf{Pl}(0, 20, 0, 4, 0, 1)_{37105}$$

$$\ell_{822} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1083266} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1083266} = \mathbf{Pl}(0, 27, 0, 7, 0, 1)_{37301}$$

$$\ell_{823} = \begin{bmatrix} 1 & \eta^{13} & \eta^{18} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{132124} = \begin{bmatrix} 1 & 28 & 3 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{132124} = \mathbf{Pl}(0, 3, 0, 28, 1, 0)_{4840}$$

$$\ell_{824} = \begin{bmatrix} 0 & 1 & \eta^{10} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082961} = \begin{bmatrix} 0 & 1 & 17 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082961} = \mathbf{Pl}(0, 17, 0, 1, 0, 0)_{113}$$

$$\ell_{825} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1082425} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1082425} = \mathbf{Pl}(0, 1, 0, 24, 0, 1)_{38346}$$

$$\ell_{826} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1082974} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1082974} = \mathbf{Pl}(0, 18, 0, 12, 0, 1)_{37607}$$

$$\ell_{827} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{3} \end{bmatrix}_{1083300} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1083300} = \mathbf{Pl}(0, 28, 0, 8, 0, 1)_{37365}$$

$$\ell_{828} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{19} \end{bmatrix}_{1082671} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{1082671} = \mathbf{Pl}(0, 9, 0, 6, 0, 1)_{37220}$$

$$\ell_{829} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1083154} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1083154} = \mathbf{Pl}(0,23,0,27,0,1)_{38557}$$

$$\ell_{830} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{2} \end{bmatrix}_{1082834} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1082834} = \mathbf{Pl}(0,14,0,4,0,1)_{37099}$$

$$\ell_{831} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1082781} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1082781} = \mathbf{Pl}(0,12,0,17,0,1)_{37916}$$

$$\ell_{832} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1083097} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1083097} = \mathbf{Pl}(0,22,0,3,0,1)_{37044}$$

$$\ell_{833} = \begin{bmatrix} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1082515} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1082515} = \mathbf{Pl}(0,4,0,15,0,1)_{37782}$$

$$\ell_{834} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1083224} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1083224} = \mathbf{Pl}(0,25,0,31,0,1)_{38811}$$

$$\ell_{835} = \begin{bmatrix} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{25} \end{bmatrix}_{1082921} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 25 \end{bmatrix}_{1082921} = \mathbf{Pl}(0,16,0,25,0,1)_{38424}$$

$$\ell_{836} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1082601} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1082601} = \mathbf{Pl}(0,7,0,2,0,1)_{36966}$$

$$\ell_{837} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1082891} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1082891} = \mathbf{Pl}(0,15,0,28,0,1)_{38612}$$

$$\ell_{838} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{9} \end{bmatrix}_{1082592} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 26 \end{bmatrix}_{1082592} = \mathbf{Pl}(0,6,0,26,0,1)_{38477}$$

$$\ell_{839} = \begin{bmatrix} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1082806} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1082806} = \mathbf{Pl}(0,13,0,9,0,1)_{37413}$$

$$\ell_{840} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1082750} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1082750} = \mathbf{Pl}(0,11,0,19,0,1)_{38041}$$

$$\ell_{841} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1083167} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1083167} = \mathbf{Pl}(0,24,0,7,0,1)_{37298}$$

$$\ell_{842} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1082455} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1082455} = \mathbf{Pl}(0,2,0,21,0,1)_{38158}$$

$$\ell_{843} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{4} \end{bmatrix}_{1083341} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1083341} = \mathbf{Pl}(0,29,0,16,0,1)_{37870}$$

$$\ell_{844} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{14} \end{bmatrix}_{1083387} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 29 \end{bmatrix}_{1083387} = \mathbf{Pl}(0,30,0,29,0,1)_{38690}$$

$$\ell_{845} = \begin{bmatrix} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1083244} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1083244} = \mathbf{Pl}(0,26,0,18,0,1)_{37993}$$

$$\ell_{846} = \begin{bmatrix} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1082662} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1082662} = \mathbf{Pl}(0,8,0,30,0,1)_{38731}$$

$$\ell_{847} = \begin{bmatrix} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1082556} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1082556} = \mathbf{Pl}(0,5,0,23,0,1)_{38287}$$

$$\ell_{848} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082930} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082930} = \mathbf{Pl}(0,17,0,1,0,1)_{36913}$$

$$\ell_{849} = \begin{bmatrix} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1082709} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1082709} = \mathbf{Pl}(0,10,0,11,0,1)_{37536}$$

$$\ell_{850} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{12} \end{array}\right]_{1083075} = \left[\begin{array}{cccc} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 14 \end{array}\right]_{1083075} = \mathbf{Pl}(0,21,0,14,0,1)_{37736}$$

$$\ell_{851} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{5} \end{array}\right]_{1083396} = \left[\begin{array}{cccc} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 5 \end{array}\right]_{1083396} = \mathbf{Pl}(0,31,0,5,0,1)_{37179}$$

$$\ell_{852} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{8} \end{array}\right]_{1082480} = \left[\begin{array}{cccc} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 13 \end{array}\right]_{1082480} = \mathbf{Pl}(0,3,0,13,0,1)_{37655}$$

$$\ell_{853} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{7} \end{array}\right]_{1083015} = \left[\begin{array}{cccc} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 20 \end{array}\right]_{1083015} = \mathbf{Pl}(0,19,0,20,0,1)_{38112}$$

$$\ell_{854} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{28} \end{array}\right]_{1083050} = \left[\begin{array}{cccc} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 22 \end{array}\right]_{1083050} = \mathbf{Pl}(0,20,0,22,0,1)_{38239}$$

$$\ell_{855} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{6} \end{array}\right]_{1083269} = \left[\begin{array}{cccc} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 10 \end{array}\right]_{1083269} = \mathbf{Pl}(0,27,0,10,0,1)_{37490}$$

$$\ell_{856} = \left[\begin{array}{cccc} 1 & \eta^{26} & \eta^{5} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{194487} = \left[\begin{array}{cccc} 1 & 23 & 5 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{194487} = \mathbf{Pl}(0,5,0,23,1,0)_{4527}$$

$$\ell_{857} = \left[\begin{array}{cccc} 0 & 1 & \eta^{6} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082730} = \left[\begin{array}{cccc} 0 & 1 & 10 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082730} = \mathbf{Pl}(0,10,0,1,0,0)_{106}$$

$$\ell_{858} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{25} \end{array}\right]_{1082426} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 25 \end{array}\right]_{1082426} = \mathbf{Pl}(0,1,0,25,0,1)_{38409}$$

$$\ell_{859} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{24} \end{array}\right]_{1082992} = \left[\begin{array}{cccc} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 30 \end{array}\right]_{1082992} = \mathbf{Pl}(0,18,0,30,0,1)_{38741}$$

$$\ell_{860} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{7} \end{array}\right]_{1083312} = \left[\begin{array}{cccc} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 20 \end{array}\right]_{1083312} = \mathbf{Pl}(0,28,0,20,0,1)_{38121}$$

$$\ell_{861} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{23} \end{array}\right]_{1082680} = \left[\begin{array}{cccc} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 15 \end{array}\right]_{1082680} = \mathbf{Pl}(0,9,0,15,0,1)_{37787}$$

$$\ell_{862} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{20} \end{array}\right]_{1083139} = \left[\begin{array}{cccc} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 12 \end{array}\right]_{1083139} = \mathbf{Pl}(0,23,0,12,0,1)_{37612}$$

$$\ell_{863} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{6} \end{array}\right]_{1082840} = \left[\begin{array}{cccc} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 10 \end{array}\right]_{1082840} = \mathbf{Pl}(0,14,0,10,0,1)_{37477}$$

$$\ell_{864} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{14} \end{array}\right]_{1082793} = \left[\begin{array}{cccc} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 29 \end{array}\right]_{1082793} = \mathbf{Pl}(0,12,0,29,0,1)_{38672}$$

$$\ell_{865} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{22} \end{array}\right]_{1083115} = \left[\begin{array}{cccc} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 21 \end{array}\right]_{1083115} = \mathbf{Pl}(0,22,0,21,0,1)_{38178}$$

$$\ell_{866} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{27} \end{array}\right]_{1082511} = \left[\begin{array}{cccc} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 11 \end{array}\right]_{1082511} = \mathbf{Pl}(0,4,0,11,0,1)_{37530}$$

$$\ell_{867} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{19} \end{array}\right]_{1083199} = \left[\begin{array}{cccc} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 6 \end{array}\right]_{1083199} = \mathbf{Pl}(0,25,0,6,0,1)_{37236}$$

$$\ell_{868} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{29} \end{array}\right]_{1082905} = \left[\begin{array}{cccc} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 9 \end{array}\right]_{1082905} = \mathbf{Pl}(0,16,0,9,0,1)_{37416}$$

$$\ell_{869} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{5} \end{array}\right]_{1082604} = \left[\begin{array}{cccc} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 5 \end{array}\right]_{1082604} = \mathbf{Pl}(0,7,0,5,0,1)_{37155}$$

$$\ell_{870} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{17} \end{array}\right]_{1082882} = \left[\begin{array}{cccc} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 19 \end{array}\right]_{1082882} = \mathbf{Pl}(0,15,0,19,0,1)_{38045}$$

$$\ell_{871} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1082594} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1082594} = \mathbf{Pl}(0,6,0,28,0,1)_{38603}$$

$$\ell_{872} = \begin{bmatrix} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{2} \end{bmatrix}_{1082801} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1082801} = \mathbf{Pl}(0,13,0,4,0,1)_{37098}$$

$$\ell_{873} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1082755} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1082755} = \mathbf{Pl}(0,11,0,24,0,1)_{38356}$$

$$\ell_{874} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1083191} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1083191} = \mathbf{Pl}(0,24,0,31,0,1)_{38810}$$

$$\ell_{875} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1082457} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1082457} = \mathbf{Pl}(0,2,0,23,0,1)_{38284}$$

$$\ell_{876} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{8} \end{bmatrix}_{1083338} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1083338} = \mathbf{Pl}(0,29,0,13,0,1)_{37681}$$

$$\ell_{877} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1083361} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1083361} = \mathbf{Pl}(0,30,0,3,0,1)_{37052}$$

$$\ell_{878} = \begin{bmatrix} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{3} \end{bmatrix}_{1083234} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1083234} = \mathbf{Pl}(0,26,0,8,0,1)_{37363}$$

$$\ell_{879} = \begin{bmatrix} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1082654} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1082654} = \mathbf{Pl}(0,8,0,22,0,1)_{38227}$$

$$\ell_{880} = \begin{bmatrix} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1082551} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1082551} = \mathbf{Pl}(0,5,0,18,0,1)_{37972}$$

$$\ell_{881} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{4} \end{bmatrix}_{1082945} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1082945} = \mathbf{Pl}(0,17,0,16,0,1)_{37858}$$

$$\ell_{882} = \begin{bmatrix} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082699} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082699} = \mathbf{Pl}(0,10,0,1,0,1)_{36906}$$

$$\ell_{883} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1083088} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1083088} = \mathbf{Pl}(0,21,0,27,0,1)_{38555}$$

$$\ell_{884} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{9} \end{bmatrix}_{1083417} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 26 \end{bmatrix}_{1083417} = \mathbf{Pl}(0,31,0,26,0,1)_{38502}$$

$$\ell_{885} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1082481} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1082481} = \mathbf{Pl}(0,3,0,14,0,1)_{37718}$$

$$\ell_{886} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1083002} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1083002} = \mathbf{Pl}(0,19,0,7,0,1)_{37293}$$

$$\ell_{887} = \begin{bmatrix} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1083030} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1083030} = \mathbf{Pl}(0,20,0,2,0,1)_{36979}$$

$$\ell_{888} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1083276} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1083276} = \mathbf{Pl}(0,27,0,17,0,1)_{37931}$$

$$\ell_{889} = \begin{bmatrix} 1 & \eta^{28} & \eta^{3} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{294902} = \begin{bmatrix} 1 & 22 & 8 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{294902} = \mathbf{Pl}(0,8,0,22,1,0)_{4467}$$

$$\ell_{890} = \begin{bmatrix} 0 & 1 & \eta^{22} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083093} = \begin{bmatrix} 0 & 1 & 21 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083093} = \mathbf{Pl}(0,21,0,1,0,0)_{117}$$

$$\ell_{891} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{9} \end{bmatrix}_{1082427} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 26 \end{bmatrix}_{1082427} = \mathbf{Pl}(0,1,0,26,0,1)_{38472}$$

$$\ell_{892} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^8 \end{bmatrix}_{1082975} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1082975} = \mathbf{Pl}(0,18,0,13,0,1)_{37670}$$

$$\ell_{893} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1083313} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1083313} = \mathbf{Pl}(0,28,0,21,0,1)_{38184}$$

$$\ell_{894} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^7 \end{bmatrix}_{1082685} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 20 \end{bmatrix}_{1082685} = \mathbf{Pl}(0,9,0,20,0,1)_{38102}$$

$$\ell_{895} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^4 \end{bmatrix}_{1083143} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1083143} = \mathbf{Pl}(0,23,0,16,0,1)_{37864}$$

$$\ell_{896} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1082854} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1082854} = \mathbf{Pl}(0,14,0,24,0,1)_{38359}$$

$$\ell_{897} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1082773} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1082773} = \mathbf{Pl}(0,12,0,9,0,1)_{37412}$$

$$\ell_{898} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^6 \end{bmatrix}_{1083104} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1083104} = \mathbf{Pl}(0,22,0,10,0,1)_{37485}$$

$$\ell_{899} = \begin{bmatrix} 0 & 1 & 0 & \eta^2 \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1082507} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1082507} = \mathbf{Pl}(0,4,0,7,0,1)_{37278}$$

$$\ell_{900} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^3 \end{bmatrix}_{1083201} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1083201} = \mathbf{Pl}(0,25,0,8,0,1)_{37362}$$

$$\ell_{901} = \begin{bmatrix} 0 & 1 & 0 & \eta^4 \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1082924} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1082924} = \mathbf{Pl}(0,16,0,28,0,1)_{38613}$$

$$\ell_{902} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1082611} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1082611} = \mathbf{Pl}(0,7,0,12,0,1)_{37596}$$

$$\ell_{903} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1082865} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1082865} = \mathbf{Pl}(0,15,0,2,0,1)_{36974}$$

$$\ell_{904} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1082588} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1082588} = \mathbf{Pl}(0,6,0,22,0,1)_{38225}$$

$$\ell_{905} = \begin{bmatrix} 0 & 1 & 0 & \eta^8 \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1082816} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1082816} = \mathbf{Pl}(0,13,0,19,0,1)_{38043}$$

$$\ell_{906} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^5 \end{bmatrix}_{1082736} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1082736} = \mathbf{Pl}(0,11,0,5,0,1)_{37159}$$

$$\ell_{907} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1083178} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1083178} = \mathbf{Pl}(0,24,0,18,0,1)_{37991}$$

$$\ell_{908} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1082451} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1082451} = \mathbf{Pl}(0,2,0,17,0,1)_{37906}$$

$$\ell_{909} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1083340} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1083340} = \mathbf{Pl}(0,29,0,15,0,1)_{37807}$$

$$\ell_{910} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^2 \end{bmatrix}_{1083362} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1083362} = \mathbf{Pl}(0,30,0,4,0,1)_{37115}$$

$$\ell_{911} = \begin{bmatrix} 0 & 1 & 0 & \eta^9 \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1083229} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1083229} = \mathbf{Pl}(0,26,0,3,0,1)_{37048}$$

$$\ell_{912} = \begin{bmatrix} 0 & 1 & 0 & \eta^3 \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1082646} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1082646} = \mathbf{Pl}(0,8,0,14,0,1)_{37723}$$

$$\ell_{913} = \begin{bmatrix} 0 & 1 & 0 & \eta^5 \\ 0 & 0 & 1 & \eta^{14} \end{bmatrix}_{1082562} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 29 \end{bmatrix}_{1082562} = \mathbf{Pl}(0,5,0,29,0,1)_{38665}$$

$$\ell_{914} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{19} \end{bmatrix}_{1082935} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{1082935} = \mathbf{Pl}(0,17,0,6,0,1)_{37228}$$

$$\ell_{915} = \begin{bmatrix} 0 & 1 & 0 & \eta^6 \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1082729} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1082729} = \mathbf{Pl}(0,10,0,31,0,1)_{38796}$$

$$\ell_{916} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1083062} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1083062} = \mathbf{Pl}(0,21,0,1,0,1)_{36917}$$

$$\ell_{917} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1083421} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1083421} = \mathbf{Pl}(0,31,0,30,0,1)_{38754}$$

$$\ell_{918} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1082478} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1082478} = \mathbf{Pl}(0,3,0,11,0,1)_{37529}$$

$$\ell_{919} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1083018} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1083018} = \mathbf{Pl}(0,19,0,23,0,1)_{38301}$$

$$\ell_{920} = \begin{bmatrix} 0 & 1 & 0 & \eta^7 \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1083055} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1083055} = \mathbf{Pl}(0,20,0,27,0,1)_{38554}$$

$$\ell_{921} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{25} \end{bmatrix}_{1083284} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 25 \end{bmatrix}_{1083284} = \mathbf{Pl}(0,27,0,25,0,1)_{38435}$$

$$\ell_{922} = \begin{bmatrix} 1 & \eta^{20} & \eta^{11} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{250508} = \begin{bmatrix} 1 & 12 & 7 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{250508} = \mathbf{Pl}(0,7,0,12,1,0)_{3836}$$

$$\ell_{923} = \begin{bmatrix} 0 & 1 & \eta^{15} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083423} = \begin{bmatrix} 0 & 1 & 31 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083423} = \mathbf{Pl}(0,31,0,1,0,0)_{127}$$

$$\ell_{924} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1082428} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1082428} = \mathbf{Pl}(0,1,0,27,0,1)_{38535}$$

$$\ell_{925} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1082993} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1082993} = \mathbf{Pl}(0,18,0,31,0,1)_{38804}$$

$$\ell_{926} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1083301} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1083301} = \mathbf{Pl}(0,28,0,9,0,1)_{37428}$$

$$\ell_{927} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{14} \end{bmatrix}_{1082694} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 29 \end{bmatrix}_{1082694} = \mathbf{Pl}(0,9,0,29,0,1)_{38669}$$

$$\ell_{928} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1083134} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1083134} = \mathbf{Pl}(0,23,0,7,0,1)_{37297}$$

$$\ell_{929} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1082852} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1082852} = \mathbf{Pl}(0,14,0,22,0,1)_{38233}$$

$$\ell_{930} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^5 \end{bmatrix}_{1082769} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1082769} = \mathbf{Pl}(0,12,0,5,0,1)_{37160}$$

$$\ell_{931} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1083122} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1083122} = \mathbf{Pl}(0,22,0,28,0,1)_{38619}$$

$$\ell_{932} = \begin{bmatrix} 0 & 1 & 0 & \eta^2 \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1082503} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1082503} = \mathbf{Pl}(0,4,0,3,0,1)_{37026}$$

$$\ell_{933} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1083210} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1083210} = \mathbf{Pl}(0,25,0,17,0,1)_{37929}$$

$$\ell_{934} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^4 \\ 0 & 0 & 1 & \eta^{20} \end{array}\right]_{1082908} = \left[\begin{array}{cccc} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 12 \end{array}\right]_{1082908} = \mathbf{Pl}(0,16,0,12,0,1)_{37605}$$

$$\ell_{935} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{27} \end{array}\right]_{1082610} = \left[\begin{array}{cccc} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 11 \end{array}\right]_{1082610} = \mathbf{Pl}(0,7,0,11,0,1)_{37533}$$

$$\ell_{936} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{8} \end{array}\right]_{1082876} = \left[\begin{array}{cccc} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 13 \end{array}\right]_{1082876} = \mathbf{Pl}(0,15,0,13,0,1)_{37667}$$

$$\ell_{937} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{4} \end{array}\right]_{1082582} = \left[\begin{array}{cccc} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 16 \end{array}\right]_{1082582} = \mathbf{Pl}(0,6,0,16,0,1)_{37847}$$

$$\ell_{938} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{24} \end{array}\right]_{1082827} = \left[\begin{array}{cccc} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 30 \end{array}\right]_{1082827} = \mathbf{Pl}(0,13,0,30,0,1)_{38736}$$

$$\ell_{939} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{12} \end{array}\right]_{1082745} = \left[\begin{array}{cccc} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 14 \end{array}\right]_{1082745} = \mathbf{Pl}(0,11,0,14,0,1)_{37726}$$

$$\ell_{940} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{6} \end{array}\right]_{1083170} = \left[\begin{array}{cccc} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 10 \end{array}\right]_{1083170} = \mathbf{Pl}(0,24,0,10,0,1)_{37487}$$

$$\ell_{941} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{17} \end{array}\right]_{1082453} = \left[\begin{array}{cccc} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 19 \end{array}\right]_{1082453} = \mathbf{Pl}(0,2,0,19,0,1)_{38032}$$

$$\ell_{942} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{30} \end{array}\right]_{1083343} = \left[\begin{array}{cccc} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 18 \end{array}\right]_{1083343} = \mathbf{Pl}(0,29,0,18,0,1)_{37996}$$

$$\ell_{943} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{9} \end{array}\right]_{1083384} = \left[\begin{array}{cccc} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 26 \end{array}\right]_{1083384} = \mathbf{Pl}(0,30,0,26,0,1)_{38501}$$

$$\ell_{944} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{25} \end{array}\right]_{1083251} = \left[\begin{array}{cccc} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 25 \end{array}\right]_{1083251} = \mathbf{Pl}(0,26,0,25,0,1)_{38434}$$

$$\ell_{945} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{19} \end{array}\right]_{1082638} = \left[\begin{array}{cccc} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 6 \end{array}\right]_{1082638} = \mathbf{Pl}(0,8,0,6,0,1)_{37219}$$

$$\ell_{946} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{21} \end{array}\right]_{1082557} = \left[\begin{array}{cccc} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 24 \end{array}\right]_{1082557} = \mathbf{Pl}(0,5,0,24,0,1)_{38350}$$

$$\ell_{947} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{26} \end{array}\right]_{1082952} = \left[\begin{array}{cccc} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 23 \end{array}\right]_{1082952} = \mathbf{Pl}(0,17,0,23,0,1)_{38299}$$

$$\ell_{948} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{22} \end{array}\right]_{1082719} = \left[\begin{array}{cccc} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 21 \end{array}\right]_{1082719} = \mathbf{Pl}(0,10,0,21,0,1)_{38166}$$

$$\ell_{949} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{7} \end{array}\right]_{1083081} = \left[\begin{array}{cccc} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 20 \end{array}\right]_{1083081} = \mathbf{Pl}(0,21,0,20,0,1)_{38114}$$

$$\ell_{950} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & 1 \end{array}\right]_{1083392} = \left[\begin{array}{cccc} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 1 \end{array}\right]_{1083392} = \mathbf{Pl}(0,31,0,1,0,1)_{36927}$$

$$\ell_{951} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{3} \end{array}\right]_{1082475} = \left[\begin{array}{cccc} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 8 \end{array}\right]_{1082475} = \mathbf{Pl}(0,3,0,8,0,1)_{37340}$$

$$\ell_{952} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{2} \end{array}\right]_{1082999} = \left[\begin{array}{cccc} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 4 \end{array}\right]_{1082999} = \mathbf{Pl}(0,19,0,4,0,1)_{37104}$$

$$\ell_{953} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{23} \end{array}\right]_{1083043} = \left[\begin{array}{cccc} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 15 \end{array}\right]_{1083043} = \mathbf{Pl}(0,20,0,15,0,1)_{37798}$$

$$\ell_{954} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta \end{array}\right]_{1083261} = \left[\begin{array}{cccc} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 2 \end{array}\right]_{1083261} = \mathbf{Pl}(0,27,0,2,0,1)_{36986}$$

$$\ell_{955} = \left[\begin{array}{cccc} 1 & \eta^8 & \eta^{23} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{522157} = \left[\begin{array}{cccc} 1 & 13 & 15 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{522157} = \mathbf{Pl}(0,15,0,13,1,0)_{3907}$$

$$\ell_{956} = \left[\begin{array}{cccc} 0 & 1 & \eta^{18} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082499} = \left[\begin{array}{cccc} 0 & 1 & 3 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082499} = \mathbf{Pl}(0,3,0,1,0,0)_{99}$$

$$\ell_{957} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{13} \end{array}\right]_{1082429} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 28 \end{array}\right]_{1082429} = \mathbf{Pl}(0,1,0,28,0,1)_{38598}$$

$$\ell_{958} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{12} \end{array}\right]_{1082976} = \left[\begin{array}{cccc} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 14 \end{array}\right]_{1082976} = \mathbf{Pl}(0,18,0,14,0,1)_{37733}$$

$$\ell_{959} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{26} \end{array}\right]_{1083315} = \left[\begin{array}{cccc} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 23 \end{array}\right]_{1083315} = \mathbf{Pl}(0,28,0,23,0,1)_{38310}$$

$$\ell_{960} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{11} \end{array}\right]_{1082672} = \left[\begin{array}{cccc} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 7 \end{array}\right]_{1082672} = \mathbf{Pl}(0,9,0,7,0,1)_{37283}$$

$$\ell_{961} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^8 \end{array}\right]_{1083140} = \left[\begin{array}{cccc} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 13 \end{array}\right]_{1083140} = \mathbf{Pl}(0,23,0,13,0,1)_{37675}$$

$$\ell_{962} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{25} \end{array}\right]_{1082855} = \left[\begin{array}{cccc} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 25 \end{array}\right]_{1082855} = \mathbf{Pl}(0,14,0,25,0,1)_{38422}$$

$$\ell_{963} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^2 \end{array}\right]_{1082768} = \left[\begin{array}{cccc} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 4 \end{array}\right]_{1082768} = \mathbf{Pl}(0,12,0,4,0,1)_{37097}$$

$$\ell_{964} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{10} \end{array}\right]_{1083111} = \left[\begin{array}{cccc} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 17 \end{array}\right]_{1083111} = \mathbf{Pl}(0,22,0,17,0,1)_{37926}$$

$$\ell_{965} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^2 \\ 0 & 0 & 1 & \eta^{15} \end{array}\right]_{1082531} = \left[\begin{array}{cccc} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 31 \end{array}\right]_{1082531} = \mathbf{Pl}(0,4,0,31,0,1)_{38790}$$

$$\ell_{966} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^7 \end{array}\right]_{1083213} = \left[\begin{array}{cccc} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 20 \end{array}\right]_{1083213} = \mathbf{Pl}(0,25,0,20,0,1)_{38118}$$

$$\ell_{967} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^4 \\ 0 & 0 & 1 & \eta^{17} \end{array}\right]_{1082915} = \left[\begin{array}{cccc} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 19 \end{array}\right]_{1082915} = \mathbf{Pl}(0,16,0,19,0,1)_{38046}$$

$$\ell_{968} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{24} \end{array}\right]_{1082629} = \left[\begin{array}{cccc} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 30 \end{array}\right]_{1082629} = \mathbf{Pl}(0,7,0,30,0,1)_{38730}$$

$$\ell_{969} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^5 \end{array}\right]_{1082868} = \left[\begin{array}{cccc} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 5 \end{array}\right]_{1082868} = \mathbf{Pl}(0,15,0,5,0,1)_{37163}$$

$$\ell_{970} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta \end{array}\right]_{1082568} = \left[\begin{array}{cccc} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 2 \end{array}\right]_{1082568} = \mathbf{Pl}(0,6,0,2,0,1)_{36965}$$

$$\ell_{971} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^8 \\ 0 & 0 & 1 & \eta^{21} \end{array}\right]_{1082821} = \left[\begin{array}{cccc} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 24 \end{array}\right]_{1082821} = \mathbf{Pl}(0,13,0,24,0,1)_{38358}$$

$$\ell_{972} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^9 \end{array}\right]_{1082757} = \left[\begin{array}{cccc} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 26 \end{array}\right]_{1082757} = \mathbf{Pl}(0,11,0,26,0,1)_{38482}$$

$$\ell_{973} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^3 \end{array}\right]_{1083168} = \left[\begin{array}{cccc} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 8 \end{array}\right]_{1083168} = \mathbf{Pl}(0,24,0,8,0,1)_{37361}$$

$$\ell_{974} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{14} \end{array}\right]_{1082463} = \left[\begin{array}{cccc} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 29 \end{array}\right]_{1082463} = \mathbf{Pl}(0,2,0,29,0,1)_{38662}$$

$$\ell_{975} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{27} \end{array}\right]_{1083336} = \left[\begin{array}{cccc} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 11 \end{array}\right]_{1083336} = \mathbf{Pl}(0,29,0,11,0,1)_{37555}$$

$$\ell_{976} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{6} \end{array}\right]_{1083368} = \left[\begin{array}{cccc} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 10 \end{array}\right]_{1083368} = \mathbf{Pl}(0,30,0,10,0,1)_{37493}$$

$$\ell_{977} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{22} \end{array}\right]_{1083247} = \left[\begin{array}{cccc} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 21 \end{array}\right]_{1083247} = \mathbf{Pl}(0,26,0,21,0,1)_{38182}$$

$$\ell_{978} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{16} \end{array}\right]_{1082659} = \left[\begin{array}{cccc} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 27 \end{array}\right]_{1082659} = \mathbf{Pl}(0,8,0,27,0,1)_{38542}$$

$$\ell_{979} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{18} \end{array}\right]_{1082536} = \left[\begin{array}{cccc} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 3 \end{array}\right]_{1082536} = \mathbf{Pl}(0,5,0,3,0,1)_{37027}$$

$$\ell_{980} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{23} \end{array}\right]_{1082944} = \left[\begin{array}{cccc} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 15 \end{array}\right]_{1082944} = \mathbf{Pl}(0,17,0,15,0,1)_{37795}$$

$$\ell_{981} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{19} \end{array}\right]_{1082704} = \left[\begin{array}{cccc} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 6 \end{array}\right]_{1082704} = \mathbf{Pl}(0,10,0,6,0,1)_{37221}$$

$$\ell_{982} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{4} \end{array}\right]_{1083077} = \left[\begin{array}{cccc} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 16 \end{array}\right]_{1083077} = \mathbf{Pl}(0,21,0,16,0,1)_{37862}$$

$$\ell_{983} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{28} \end{array}\right]_{1083413} = \left[\begin{array}{cccc} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 22 \end{array}\right]_{1083413} = \mathbf{Pl}(0,31,0,22,0,1)_{38250}$$

$$\ell_{984} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082468} = \left[\begin{array}{cccc} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082468} = \mathbf{Pl}(0,3,0,1,0,1)_{36899}$$

$$\ell_{985} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{30} \end{array}\right]_{1083013} = \left[\begin{array}{cccc} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 18 \end{array}\right]_{1083013} = \mathbf{Pl}(0,19,0,18,0,1)_{37986}$$

$$\ell_{986} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{20} \end{array}\right]_{1083040} = \left[\begin{array}{cccc} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 12 \end{array}\right]_{1083040} = \mathbf{Pl}(0,20,0,12,0,1)_{37609}$$

$$\ell_{987} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{29} \end{array}\right]_{1083268} = \left[\begin{array}{cccc} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 9 \end{array}\right]_{1083268} = \mathbf{Pl}(0,27,0,9,0,1)_{37427}$$

$$\ell_{988} = \left[\begin{array}{cccc} 1 & \eta^{22} & \eta^{9} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{902677} = \left[\begin{array}{cccc} 1 & 21 & 26 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{902677} = \mathbf{Pl}(0,26,0,21,1,0)_{4422}$$

$$\ell_{989} = \left[\begin{array}{cccc} 0 & 1 & \eta^{17} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1083027} = \left[\begin{array}{cccc} 0 & 1 & 19 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1083027} = \mathbf{Pl}(0,19,0,1,0,0)_{115}$$

$$\ell_{990} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{14} \end{array}\right]_{1082430} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 29 \end{array}\right]_{1082430} = \mathbf{Pl}(0,1,0,29,0,1)_{38661}$$

$$\ell_{991} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{13} \end{array}\right]_{1082990} = \left[\begin{array}{cccc} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 28 \end{array}\right]_{1082990} = \mathbf{Pl}(0,18,0,28,0,1)_{38615}$$

$$\ell_{992} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{27} \end{array}\right]_{1083303} = \left[\begin{array}{cccc} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 11 \end{array}\right]_{1083303} = \mathbf{Pl}(0,28,0,11,0,1)_{37554}$$

$$\ell_{993} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{12} \end{array}\right]_{1082679} = \left[\begin{array}{cccc} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 14 \end{array}\right]_{1082679} = \mathbf{Pl}(0,9,0,14,0,1)_{37724}$$

$$\ell_{994} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{9} \end{array}\right]_{1083153} = \left[\begin{array}{cccc} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 26 \end{array}\right]_{1083153} = \mathbf{Pl}(0,23,0,26,0,1)_{38494}$$

$$\ell_{995} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{26} \end{array}\right]_{1082853} = \left[\begin{array}{cccc} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 23 \end{array}\right]_{1082853} = \mathbf{Pl}(0,14,0,23,0,1)_{38296}$$

$$\ell_{996} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{3} \end{array}\right]_{1082772} = \left[\begin{array}{cccc} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 8 \end{array}\right]_{1082772} = \mathbf{Pl}(0,12,0,8,0,1)_{37349}$$

$$\ell_{997} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1083101} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1083101} = \mathbf{Pl}(0,22,0,7,0,1)_{37296}$$

$$\ell_{998} = \begin{bmatrix} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1082527} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1082527} = \mathbf{Pl}(0,4,0,27,0,1)_{38538}$$

$$\ell_{999} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{8} \end{bmatrix}_{1083206} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1083206} = \mathbf{Pl}(0,25,0,13,0,1)_{37677}$$

$$\ell_{1000} = \begin{bmatrix} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1082899} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1082899} = \mathbf{Pl}(0,16,0,3,0,1)_{37038}$$

$$\ell_{1001} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{25} \end{bmatrix}_{1082624} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 25 \end{bmatrix}_{1082624} = \mathbf{Pl}(0,7,0,25,0,1)_{38415}$$

$$\ell_{1002} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{6} \end{bmatrix}_{1082873} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1082873} = \mathbf{Pl}(0,15,0,10,0,1)_{37478}$$

$$\ell_{1003} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{2} \end{bmatrix}_{1082570} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1082570} = \mathbf{Pl}(0,6,0,4,0,1)_{37091}$$

$$\ell_{1004} = \begin{bmatrix} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1082818} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1082818} = \mathbf{Pl}(0,13,0,21,0,1)_{38169}$$

$$\ell_{1005} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1082748} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1082748} = \mathbf{Pl}(0,11,0,17,0,1)_{37915}$$

$$\ell_{1006} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{4} \end{bmatrix}_{1083176} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1083176} = \mathbf{Pl}(0,24,0,16,0,1)_{37865}$$

$$\ell_{1007} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1082465} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1082465} = \mathbf{Pl}(0,2,0,31,0,1)_{38788}$$

$$\ell_{1008} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1083347} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1083347} = \mathbf{Pl}(0,29,0,22,0,1)_{38248}$$

$$\ell_{1009} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{7} \end{bmatrix}_{1083378} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 20 \end{bmatrix}_{1083378} = \mathbf{Pl}(0,30,0,20,0,1)_{38123}$$

$$\ell_{1010} = \begin{bmatrix} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1083241} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1083241} = \mathbf{Pl}(0,26,0,15,0,1)_{37804}$$

$$\ell_{1011} = \begin{bmatrix} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1082651} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1082651} = \mathbf{Pl}(0,8,0,19,0,1)_{38038}$$

$$\ell_{1012} = \begin{bmatrix} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{19} \end{bmatrix}_{1082539} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{1082539} = \mathbf{Pl}(0,5,0,6,0,1)_{37216}$$

$$\ell_{1013} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1082959} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1082959} = \mathbf{Pl}(0,17,0,30,0,1)_{38740}$$

$$\ell_{1014} = \begin{bmatrix} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1082710} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1082710} = \mathbf{Pl}(0,10,0,12,0,1)_{37599}$$

$$\ell_{1015} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{5} \end{bmatrix}_{1083066} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1083066} = \mathbf{Pl}(0,21,0,5,0,1)_{37169}$$

$$\ell_{1016} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1083400} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1083400} = \mathbf{Pl}(0,31,0,9,0,1)_{37431}$$

$$\ell_{1017} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1082469} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1082469} = \mathbf{Pl}(0,3,0,2,0,1)_{36962}$$

$$\ell_{1018} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082996} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082996} = \mathbf{Pl}(0, 19, 0, 1, 0, 1)_{36915}$$

$$\ell_{1019} = \begin{bmatrix} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1083052} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1083052} = \mathbf{Pl}(0, 20, 0, 24, 0, 1)_{38365}$$

$$\ell_{1020} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1083277} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1083277} = \mathbf{Pl}(0, 27, 0, 18, 0, 1)_{37994}$$

$$\ell_{1021} = \begin{bmatrix} 1 & \eta^{7} & \eta^{24} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1036916} = \begin{bmatrix} 1 & 20 & 30 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1036916} = \mathbf{Pl}(0, 30, 0, 20, 1, 0)_{4363}$$

$$\ell_{1022} = \begin{bmatrix} 0 & 1 & \eta^{7} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083060} = \begin{bmatrix} 0 & 1 & 20 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083060} = \mathbf{Pl}(0, 20, 0, 1, 0, 0)_{116}$$

$$\ell_{1023} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1082431} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1082431} = \mathbf{Pl}(0, 1, 0, 30, 0, 1)_{38724}$$

$$\ell_{1024} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1082977} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1082977} = \mathbf{Pl}(0, 18, 0, 15, 0, 1)_{37796}$$

$$\ell_{1025} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{6} \end{bmatrix}_{1083302} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1083302} = \mathbf{Pl}(0, 28, 0, 10, 0, 1)_{37491}$$

$$\ell_{1026} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1082686} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1082686} = \mathbf{Pl}(0, 9, 0, 21, 0, 1)_{38165}$$

$$\ell_{1027} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{19} \end{bmatrix}_{1083133} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{1083133} = \mathbf{Pl}(0, 23, 0, 6, 0, 1)_{37234}$$

$$\ell_{1028} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{5} \end{bmatrix}_{1082835} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1082835} = \mathbf{Pl}(0, 14, 0, 5, 0, 1)_{37162}$$

$$\ell_{1029} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1082792} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1082792} = \mathbf{Pl}(0, 12, 0, 28, 0, 1)_{38609}$$

$$\ell_{1030} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1083118} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1083118} = \mathbf{Pl}(0, 22, 0, 24, 0, 1)_{38367}$$

$$\ell_{1031} = \begin{bmatrix} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1082523} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1082523} = \mathbf{Pl}(0, 4, 0, 23, 0, 1)_{38286}$$

$$\ell_{1032} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1083196} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1083196} = \mathbf{Pl}(0, 25, 0, 3, 0, 1)_{37047}$$

$$\ell_{1033} = \begin{bmatrix} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1082918} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1082918} = \mathbf{Pl}(0, 16, 0, 22, 0, 1)_{38235}$$

$$\ell_{1034} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{4} \end{bmatrix}_{1082615} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1082615} = \mathbf{Pl}(0, 7, 0, 16, 0, 1)_{37848}$$

$$\ell_{1035} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1082890} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1082890} = \mathbf{Pl}(0, 15, 0, 27, 0, 1)_{38549}$$

$$\ell_{1036} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1082580} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1082580} = \mathbf{Pl}(0, 6, 0, 14, 0, 1)_{37721}$$

$$\ell_{1037} = \begin{bmatrix} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1082799} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1082799} = \mathbf{Pl}(0, 13, 0, 2, 0, 1)_{36972}$$

$$\ell_{1038} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1082743} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1082743} = \mathbf{Pl}(0, 11, 0, 12, 0, 1)_{37600}$$

$$\ell_{1039} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{14} \end{bmatrix}_{1083189} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 29 \end{bmatrix}_{1083189} = \mathbf{Pl}(0,24,0,29,0,1)_{38684}$$

$$\ell_{1040} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{25} \end{bmatrix}_{1082459} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 25 \end{bmatrix}_{1082459} = \mathbf{Pl}(0,2,0,25,0,1)_{38410}$$

$$\ell_{1041} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{7} \end{bmatrix}_{1083345} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 20 \end{bmatrix}_{1083345} = \mathbf{Pl}(0,29,0,20,0,1)_{38122}$$

$$\ell_{1042} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1083377} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1083377} = \mathbf{Pl}(0,30,0,19,0,1)_{38060}$$

$$\ell_{1043} = \begin{bmatrix} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{2} \end{bmatrix}_{1083230} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1083230} = \mathbf{Pl}(0,26,0,4,0,1)_{37111}$$

$$\ell_{1044} = \begin{bmatrix} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1082643} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1082643} = \mathbf{Pl}(0,8,0,11,0,1)_{37534}$$

$$\ell_{1045} = \begin{bmatrix} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1082542} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1082542} = \mathbf{Pl}(0,5,0,9,0,1)_{37405}$$

$$\ell_{1046} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{3} \end{bmatrix}_{1082937} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1082937} = \mathbf{Pl}(0,17,0,8,0,1)_{37354}$$

$$\ell_{1047} = \begin{bmatrix} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1082716} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1082716} = \mathbf{Pl}(0,10,0,18,0,1)_{37977}$$

$$\ell_{1048} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1083092} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1083092} = \mathbf{Pl}(0,21,0,31,0,1)_{38807}$$

$$\ell_{1049} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{8} \end{bmatrix}_{1083404} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1083404} = \mathbf{Pl}(0,31,0,13,0,1)_{37683}$$

$$\ell_{1050} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1082474} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1082474} = \mathbf{Pl}(0,3,0,7,0,1)_{37277}$$

$$\ell_{1051} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1083012} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1083012} = \mathbf{Pl}(0,19,0,17,0,1)_{37923}$$

$$\ell_{1052} = \begin{bmatrix} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1083029} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1083029} = \mathbf{Pl}(0,20,0,1,0,1)_{36916}$$

$$\ell_{1053} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{9} \end{bmatrix}_{1083285} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 26 \end{bmatrix}_{1083285} = \mathbf{Pl}(0,27,0,26,0,1)_{38498}$$

$$\ell_{1054} = \begin{bmatrix} 1 & \eta^{12} & \eta^{19} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{218798} = \begin{bmatrix} 1 & 14 & 6 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{218798} = \mathbf{Pl}(0,6,0,14,1,0)_{3961}$$

$$\ell_{1055} = \begin{bmatrix} 0 & 1 & \eta^{16} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083291} = \begin{bmatrix} 0 & 1 & 27 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083291} = \mathbf{Pl}(0,27,0,1,0,0)_{123}$$

$$\ell_{1056} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1082432} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1082432} = \mathbf{Pl}(0,1,0,31,0,1)_{38787}$$

$$\ell_{1057} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{14} \end{bmatrix}_{1082991} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 29 \end{bmatrix}_{1082991} = \mathbf{Pl}(0,18,0,29,0,1)_{38678}$$

$$\ell_{1058} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1083314} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1083314} = \mathbf{Pl}(0,28,0,22,0,1)_{38247}$$

$$\ell_{1059} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1082693} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1082693} = \mathbf{Pl}(0,9,0,28,0,1)_{38606}$$

$$\ell_{1060} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1083144} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1083144} = \mathbf{Pl}(0, 23, 0, 17, 0, 1)_{37927}$$

$$\ell_{1061} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1082841} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1082841} = \mathbf{Pl}(0, 14, 0, 11, 0, 1)_{37540}$$

$$\ell_{1062} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{4} \end{bmatrix}_{1082780} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1082780} = \mathbf{Pl}(0, 12, 0, 16, 0, 1)_{37853}$$

$$\ell_{1063} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1083108} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1083108} = \mathbf{Pl}(0, 22, 0, 14, 0, 1)_{37737}$$

$$\ell_{1064} = \begin{bmatrix} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1082519} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1082519} = \mathbf{Pl}(0, 4, 0, 19, 0, 1)_{38034}$$

$$\ell_{1065} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{9} \end{bmatrix}_{1083219} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 26 \end{bmatrix}_{1083219} = \mathbf{Pl}(0, 25, 0, 26, 0, 1)_{38496}$$

$$\ell_{1066} = \begin{bmatrix} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{19} \end{bmatrix}_{1082902} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{1082902} = \mathbf{Pl}(0, 16, 0, 6, 0, 1)_{37227}$$

$$\ell_{1067} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1082622} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1082622} = \mathbf{Pl}(0, 7, 0, 23, 0, 1)_{38289}$$

$$\ell_{1068} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{7} \end{bmatrix}_{1082883} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 20 \end{bmatrix}_{1082883} = \mathbf{Pl}(0, 15, 0, 20, 0, 1)_{38108}$$

$$\ell_{1069} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{3} \end{bmatrix}_{1082574} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1082574} = \mathbf{Pl}(0, 6, 0, 8, 0, 1)_{37343}$$

$$\ell_{1070} = \begin{bmatrix} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1082812} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1082812} = \mathbf{Pl}(0, 13, 0, 15, 0, 1)_{37791}$$

$$\ell_{1071} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1082738} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1082738} = \mathbf{Pl}(0, 11, 0, 7, 0, 1)_{37285}$$

$$\ell_{1072} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{5} \end{bmatrix}_{1083165} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1083165} = \mathbf{Pl}(0, 24, 0, 5, 0, 1)_{37172}$$

$$\ell_{1073} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1082461} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1082461} = \mathbf{Pl}(0, 2, 0, 27, 0, 1)_{38536}$$

$$\ell_{1074} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1083334} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1083334} = \mathbf{Pl}(0, 29, 0, 9, 0, 1)_{37429}$$

$$\ell_{1075} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{8} \end{bmatrix}_{1083371} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1083371} = \mathbf{Pl}(0, 30, 0, 13, 0, 1)_{37682}$$

$$\ell_{1076} = \begin{bmatrix} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1083256} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1083256} = \mathbf{Pl}(0, 26, 0, 30, 0, 1)_{38749}$$

$$\ell_{1077} = \begin{bmatrix} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1082635} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1082635} = \mathbf{Pl}(0, 8, 0, 3, 0, 1)_{37030}$$

$$\ell_{1078} = \begin{bmatrix} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1082545} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1082545} = \mathbf{Pl}(0, 5, 0, 12, 0, 1)_{37594}$$

$$\ell_{1079} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{25} \end{bmatrix}_{1082954} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 25 \end{bmatrix}_{1082954} = \mathbf{Pl}(0, 17, 0, 25, 0, 1)_{38425}$$

$$\ell_{1080} = \begin{bmatrix} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1082722} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1082722} = \mathbf{Pl}(0, 10, 0, 24, 0, 1)_{38355}$$

$$\ell_{1081} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{6} \end{bmatrix}_{1083071} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1083071} = \mathbf{Pl}(0,21,0,10,0,1)_{37484}$$

$$\ell_{1082} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1083409} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1083409} = \mathbf{Pl}(0,31,0,18,0,1)_{37998}$$

$$\ell_{1083} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{2} \end{bmatrix}_{1082471} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1082471} = \mathbf{Pl}(0,3,0,4,0,1)_{37088}$$

$$\ell_{1084} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1082997} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1082997} = \mathbf{Pl}(0,19,0,2,0,1)_{36978}$$

$$\ell_{1085} = \begin{bmatrix} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1083049} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1083049} = \mathbf{Pl}(0,20,0,21,0,1)_{38176}$$

$$\ell_{1086} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1083260} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1083260} = \mathbf{Pl}(0,27,0,1,0,1)_{36923}$$

$$\ell_{1087} = \begin{bmatrix} 1 & \eta^{23} & \eta^{8} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{456623} = \begin{bmatrix} 1 & 15 & 13 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{456623} = \mathbf{Pl}(0,13,0,15,1,0)_{4031}$$

Rank of lines: (1082368, 1082400, 1082369, 1082386, 1082396, 1082377, 1082391, 1082382, 1082380, 1082390, 1082372, 1082393, 1082384, 1082375, 1082383, 1082374, 1082381, 1082379, 1082392, 1082370, 1082397, 1082398, 1082394, 1082376, 1082373, 1082385, 1082378, 1082389, 1082399, 1082371, 1082387, 1082388, 1082395, 1083424, 1082401, 1082962, 1083292, 1082665, 1083127, 1082830, 1082764, 1083094, 1082500, 1083193, 1082896, 1082599, 1082863, 1082566, 1082797, 1082731, ...1083049, 1083260, 456623)

Rank of points on Klein quadric: (34849, 65, 36865, 37936, 38566, 37369, 38251, 37684, 37558, 38188, 37054, 38377, 37810, 37243, 37747, 37180, 37621, 37495, 38314, 36928, 38629, 38692, 38440, 37306, 37117, 37873, 37432, 38125, 38755, 36991, 37999, 38062, 38503, 1, 34881, 34898, 34908, 34889, 34903, 34894, 34892, 34902, 34884, 34905, 34896, 34887, 34895, 34886, 34893, 34891, ...38176, 36923, 4031)

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 992 single points:
The single points on the surface are:

0 : $P_4 = (1,1,1,1)$ lies on line ℓ_{97}

1 : $P_{68} = (1,1,1,0)$ lies on line ℓ_{97}

2 : $P_{126} = (27,2,1,0)$ lies on line ℓ_{130}

3 : $P_{157} = (26,3,1,0)$ lies on line ℓ_{163}

4 : $P_{165} = (2,4,1,0)$ lies on line ℓ_{196}

5 : $P_{198} = (3,5,1,0)$ lies on line ℓ_{229}

6 : $P_{252} = (25,6,1,0)$ lies on line ℓ_{262}

7 : $P_{283} = (24,7,1,0)$ lies on line ℓ_{295}

8 : $P_{310} = (19,8,1,0)$ lies on line ℓ_{328}

9 : $P_{341} = (18,9,1,0)$ lies on line ℓ_{361}

10 : $P_{363} = (8,10,1,0)$ lies on line ℓ_{394}

11 : $P_{396} = (9,11,1,0)$ lies on line ℓ_{427}

12 : $P_{436} = (17,12,1,0)$ lies on line ℓ_{460}

13 : $P_{467} = (16,13,1,0)$ lies on line ℓ_{493}

14 : $P_{493} = (10, 14, 1, 0)$ lies on line ℓ_{526}
15 : $P_{526} = (11, 15, 1, 0)$ lies on line ℓ_{559}
16 : $P_{551} = (4, 16, 1, 0)$ lies on line ℓ_{592}
17 : $P_{584} = (5, 17, 1, 0)$ lies on line ℓ_{625}
18 : $P_{642} = (31, 18, 1, 0)$ lies on line ℓ_{658}
19 : $P_{673} = (30, 19, 1, 0)$ lies on line ℓ_{691}
20 : $P_{681} = (6, 20, 1, 0)$ lies on line ℓ_{724}
21 : $P_{714} = (7, 21, 1, 0)$ lies on line ℓ_{757}
22 : $P_{768} = (29, 22, 1, 0)$ lies on line ℓ_{790}
23 : $P_{799} = (28, 23, 1, 0)$ lies on line ℓ_{823}
24 : $P_{826} = (23, 24, 1, 0)$ lies on line ℓ_{856}
25 : $P_{857} = (22, 25, 1, 0)$ lies on line ℓ_{889}
26 : $P_{879} = (12, 26, 1, 0)$ lies on line ℓ_{922}
27 : $P_{912} = (13, 27, 1, 0)$ lies on line ℓ_{955}
28 : $P_{952} = (21, 28, 1, 0)$ lies on line ℓ_{988}
29 : $P_{983} = (20, 29, 1, 0)$ lies on line ℓ_{1021}
30 : $P_{1009} = (14, 30, 1, 0)$ lies on line ℓ_{1054}
31 : $P_{1042} = (15, 31, 1, 0)$ lies on line ℓ_{1087}
32 : $P_{2172} = (27, 2, 1, 1)$ lies on line ℓ_{130}
33 : $P_{2203} = (26, 3, 1, 1)$ lies on line ℓ_{163}
34 : $P_{2211} = (2, 4, 1, 1)$ lies on line ℓ_{196}
35 : $P_{2244} = (3, 5, 1, 1)$ lies on line ℓ_{229}
36 : $P_{2298} = (25, 6, 1, 1)$ lies on line ℓ_{262}
37 : $P_{2329} = (24, 7, 1, 1)$ lies on line ℓ_{295}
38 : $P_{2356} = (19, 8, 1, 1)$ lies on line ℓ_{328}
39 : $P_{2387} = (18, 9, 1, 1)$ lies on line ℓ_{361}
40 : $P_{2409} = (8, 10, 1, 1)$ lies on line ℓ_{394}
41 : $P_{2442} = (9, 11, 1, 1)$ lies on line ℓ_{427}
42 : $P_{2482} = (17, 12, 1, 1)$ lies on line ℓ_{460}
43 : $P_{2513} = (16, 13, 1, 1)$ lies on line ℓ_{493}
44 : $P_{2539} = (10, 14, 1, 1)$ lies on line ℓ_{526}
45 : $P_{2572} = (11, 15, 1, 1)$ lies on line ℓ_{559}
46 : $P_{2597} = (4, 16, 1, 1)$ lies on line ℓ_{592}
47 : $P_{2630} = (5, 17, 1, 1)$ lies on line ℓ_{625}
48 : $P_{2688} = (31, 18, 1, 1)$ lies on line ℓ_{658}
49 : $P_{2719} = (30, 19, 1, 1)$ lies on line ℓ_{691}
50 : $P_{2727} = (6, 20, 1, 1)$ lies on line ℓ_{724}
51 : $P_{2760} = (7, 21, 1, 1)$ lies on line ℓ_{757}
52 : $P_{2814} = (29, 22, 1, 1)$ lies on line ℓ_{790}
53 : $P_{2845} = (28, 23, 1, 1)$ lies on line ℓ_{823}
54 : $P_{2872} = (23, 24, 1, 1)$ lies on line ℓ_{856}
55 : $P_{2903} = (22, 25, 1, 1)$ lies on line ℓ_{889}
56 : $P_{2925} = (12, 26, 1, 1)$ lies on line ℓ_{922}
57 : $P_{2958} = (13, 27, 1, 1)$ lies on line ℓ_{955}
58 : $P_{2998} = (21, 28, 1, 1)$ lies on line ℓ_{988}
59 : $P_{3029} = (20, 29, 1, 1)$ lies on line ℓ_{1021}
60 : $P_{3055} = (14, 30, 1, 1)$ lies on line ℓ_{1054}
61 : $P_{3088} = (15, 31, 1, 1)$ lies on line ℓ_{1087}
62 : $P_{3164} = (27, 1, 2, 1)$ lies on line ℓ_{658}
63 : $P_{3171} = (2, 2, 2, 1)$ lies on line ℓ_{97}
64 : $P_{3226} = (25, 3, 2, 1)$ lies on line ℓ_{691}
65 : $P_{3252} = (19, 4, 2, 1)$ lies on line ℓ_{130}
66 : $P_{3273} = (8, 5, 2, 1)$ lies on line ℓ_{592}
67 : $P_{3314} = (17, 6, 2, 1)$ lies on line ℓ_{163}

68 : $P_{3339} = (10, 7, 2, 1)$ lies on line ℓ_{625}
69 : $P_{3365} = (4, 8, 2, 1)$ lies on line ℓ_{196}
70 : $P_{3424} = (31, 9, 2, 1)$ lies on line ℓ_{790}
71 : $P_{3431} = (6, 10, 2, 1)$ lies on line ℓ_{229}
72 : $P_{3486} = (29, 11, 2, 1)$ lies on line ℓ_{823}
73 : $P_{3512} = (23, 12, 2, 1)$ lies on line ℓ_{262}
74 : $P_{3533} = (12, 13, 2, 1)$ lies on line ℓ_{724}
75 : $P_{3574} = (21, 14, 2, 1)$ lies on line ℓ_{295}
76 : $P_{3599} = (14, 15, 2, 1)$ lies on line ℓ_{757}
77 : $P_{3620} = (3, 16, 2, 1)$ lies on line ℓ_{328}
78 : $P_{3673} = (24, 17, 2, 1)$ lies on line ℓ_{922}
79 : $P_{3682} = (1, 18, 2, 1)$ lies on line ℓ_{361}
80 : $P_{3739} = (26, 19, 2, 1)$ lies on line ℓ_{955}
81 : $P_{3761} = (16, 20, 2, 1)$ lies on line ℓ_{394}
82 : $P_{3788} = (11, 21, 2, 1)$ lies on line ℓ_{856}
83 : $P_{3827} = (18, 22, 2, 1)$ lies on line ℓ_{427}
84 : $P_{3850} = (9, 23, 2, 1)$ lies on line ℓ_{889}
85 : $P_{3880} = (7, 24, 2, 1)$ lies on line ℓ_{460}
86 : $P_{3933} = (28, 25, 2, 1)$ lies on line ℓ_{1054}
87 : $P_{3942} = (5, 26, 2, 1)$ lies on line ℓ_{493}
88 : $P_{3999} = (30, 27, 2, 1)$ lies on line ℓ_{1087}
89 : $P_{4021} = (20, 28, 2, 1)$ lies on line ℓ_{526}
90 : $P_{4048} = (15, 29, 2, 1)$ lies on line ℓ_{988}
91 : $P_{4087} = (22, 30, 2, 1)$ lies on line ℓ_{559}
92 : $P_{4110} = (13, 31, 2, 1)$ lies on line ℓ_{1021}
93 : $P_{4187} = (26, 1, 3, 1)$ lies on line ℓ_{988}
94 : $P_{4218} = (25, 2, 3, 1)$ lies on line ℓ_{1021}
95 : $P_{4228} = (3, 3, 3, 1)$ lies on line ℓ_{97}
96 : $P_{4274} = (17, 4, 3, 1)$ lies on line ℓ_{1087}
97 : $P_{4300} = (11, 5, 3, 1)$ lies on line ℓ_{163}
98 : $P_{4329} = (8, 6, 3, 1)$ lies on line ℓ_{130}
99 : $P_{4371} = (18, 7, 3, 1)$ lies on line ℓ_{1054}
100 : $P_{4408} = (23, 8, 3, 1)$ lies on line ℓ_{955}
101 : $P_{4430} = (13, 9, 3, 1)$ lies on line ℓ_{295}
102 : $P_{4463} = (14, 10, 3, 1)$ lies on line ℓ_{262}
103 : $P_{4501} = (20, 11, 3, 1)$ lies on line ℓ_{922}
104 : $P_{4519} = (6, 12, 3, 1)$ lies on line ℓ_{196}
105 : $P_{4573} = (28, 13, 3, 1)$ lies on line ℓ_{856}
106 : $P_{4608} = (31, 14, 3, 1)$ lies on line ℓ_{889}
107 : $P_{4614} = (5, 15, 3, 1)$ lies on line ℓ_{229}
108 : $P_{4648} = (7, 16, 3, 1)$ lies on line ℓ_{691}
109 : $P_{4702} = (29, 17, 3, 1)$ lies on line ℓ_{559}
110 : $P_{4735} = (30, 18, 3, 1)$ lies on line ℓ_{526}
111 : $P_{4741} = (4, 19, 3, 1)$ lies on line ℓ_{658}
112 : $P_{4791} = (22, 20, 3, 1)$ lies on line ℓ_{460}
113 : $P_{4813} = (12, 21, 3, 1)$ lies on line ℓ_{592}
114 : $P_{4848} = (15, 22, 3, 1)$ lies on line ℓ_{625}
115 : $P_{4886} = (21, 23, 3, 1)$ lies on line ℓ_{493}
116 : $P_{4913} = (16, 24, 3, 1)$ lies on line ℓ_{328}
117 : $P_{4939} = (10, 25, 3, 1)$ lies on line ℓ_{724}
118 : $P_{4970} = (9, 26, 3, 1)$ lies on line ℓ_{757}
119 : $P_{5012} = (19, 27, 3, 1)$ lies on line ℓ_{361}
120 : $P_{5026} = (1, 28, 3, 1)$ lies on line ℓ_{823}
121 : $P_{5084} = (27, 29, 3, 1)$ lies on line ℓ_{427}

$122 : P_{5113} = (24, 30, 3, 1)$ lies on line ℓ_{394}

$123 : P_{5123} = (2, 31, 3, 1)$ lies on line ℓ_{790}

$124 : P_{5187} = (2, 1, 4, 1)$ lies on line ℓ_{361}

$125 : P_{5236} = (19, 2, 4, 1)$ lies on line ℓ_{658}

$126 : P_{5266} = (17, 3, 4, 1)$ lies on line ℓ_{955}

$127 : P_{5285} = (4, 4, 4, 1)$ lies on line ℓ_{97}

$128 : P_{5319} = (6, 5, 4, 1)$ lies on line ℓ_{328}

$129 : P_{5368} = (23, 6, 4, 1)$ lies on line ℓ_{691}

$130 : P_{5398} = (21, 7, 4, 1)$ lies on line ℓ_{922}

$131 : P_{5412} = (3, 8, 4, 1)$ lies on line ℓ_{130}

$132 : P_{5442} = (1, 9, 4, 1)$ lies on line ℓ_{427}

$133 : P_{5489} = (16, 10, 4, 1)$ lies on line ℓ_{592}

$134 : P_{5523} = (18, 11, 4, 1)$ lies on line ℓ_{889}

$135 : P_{5544} = (7, 12, 4, 1)$ lies on line ℓ_{163}

$136 : P_{5574} = (5, 13, 4, 1)$ lies on line ℓ_{394}

$137 : P_{5621} = (20, 14, 4, 1)$ lies on line ℓ_{625}

$138 : P_{5655} = (22, 15, 4, 1)$ lies on line ℓ_{856}

$139 : P_{5673} = (8, 16, 4, 1)$ lies on line ℓ_{196}

$140 : P_{5707} = (10, 17, 4, 1)$ lies on line ℓ_{493}

$141 : P_{5756} = (27, 18, 4, 1)$ lies on line ℓ_{790}

$142 : P_{5786} = (25, 19, 4, 1)$ lies on line ℓ_{1087}

$143 : P_{5805} = (12, 20, 4, 1)$ lies on line ℓ_{229}

$144 : P_{5839} = (14, 21, 4, 1)$ lies on line ℓ_{460}

$145 : P_{5888} = (31, 22, 4, 1)$ lies on line ℓ_{823}

$146 : P_{5918} = (29, 23, 4, 1)$ lies on line ℓ_{1054}

$147 : P_{5932} = (11, 24, 4, 1)$ lies on line ℓ_{262}

$148 : P_{5962} = (9, 25, 4, 1)$ lies on line ℓ_{559}

$149 : P_{6009} = (24, 26, 4, 1)$ lies on line ℓ_{724}

$150 : P_{6043} = (26, 27, 4, 1)$ lies on line ℓ_{1021}

$151 : P_{6064} = (15, 28, 4, 1)$ lies on line ℓ_{295}

$152 : P_{6094} = (13, 29, 4, 1)$ lies on line ℓ_{526}

$153 : P_{6141} = (28, 30, 4, 1)$ lies on line ℓ_{757}

$154 : P_{6175} = (30, 31, 4, 1)$ lies on line ℓ_{988}

$155 : P_{6212} = (3, 1, 5, 1)$ lies on line ℓ_{823}

$156 : P_{6249} = (8, 2, 5, 1)$ lies on line ℓ_{427}

$157 : P_{6284} = (11, 3, 5, 1)$ lies on line ℓ_{988}

$158 : P_{6311} = (6, 4, 5, 1)$ lies on line ℓ_{790}

$159 : P_{6342} = (5, 5, 5, 1)$ lies on line ℓ_{97}

$160 : P_{6383} = (14, 6, 5, 1)$ lies on line ℓ_{1021}

$161 : P_{6414} = (13, 7, 5, 1)$ lies on line ℓ_{394}

$162 : P_{6449} = (16, 8, 5, 1)$ lies on line ℓ_{361}

$163 : P_{6484} = (19, 9, 5, 1)$ lies on line ℓ_{1054}

$164 : P_{6521} = (24, 10, 5, 1)$ lies on line ℓ_{130}

$165 : P_{6556} = (27, 11, 5, 1)$ lies on line ℓ_{757}

$166 : P_{6583} = (22, 12, 5, 1)$ lies on line ℓ_{1087}

$167 : P_{6614} = (21, 13, 5, 1)$ lies on line ℓ_{328}

$168 : P_{6655} = (30, 14, 5, 1)$ lies on line ℓ_{724}

$169 : P_{6686} = (29, 15, 5, 1)$ lies on line ℓ_{163}

$170 : P_{6701} = (12, 16, 5, 1)$ lies on line ℓ_{658}

$171 : P_{6736} = (15, 17, 5, 1)$ lies on line ℓ_{229}

$172 : P_{6757} = (4, 18, 5, 1)$ lies on line ℓ_{889}

$173 : P_{6792} = (7, 19, 5, 1)$ lies on line ℓ_{526}

$174 : P_{6827} = (10, 20, 5, 1)$ lies on line ℓ_{196}

$175 : P_{6858} = (9, 21, 5, 1)$ lies on line ℓ_{691}

$176 : P_{6883} = (2, 22, 5, 1)$ lies on line ℓ_{559}

$177 : P_{6914} = (1, 23, 5, 1)$ lies on line ℓ_{856}

$178 : P_{6973} = (28, 24, 5, 1)$ lies on line ℓ_{955}

$179 : P_{7008} = (31, 25, 5, 1)$ lies on line ℓ_{460}

$180 : P_{7029} = (20, 26, 5, 1)$ lies on line ℓ_{592}

$181 : P_{7064} = (23, 27, 5, 1)$ lies on line ℓ_{295}

$182 : P_{7099} = (26, 28, 5, 1)$ lies on line ℓ_{493}

$183 : P_{7130} = (25, 29, 5, 1)$ lies on line ℓ_{922}

$184 : P_{7155} = (18, 30, 5, 1)$ lies on line ℓ_{262}

$185 : P_{7186} = (17, 31, 5, 1)$ lies on line ℓ_{625}

$186 : P_{7258} = (25, 1, 6, 1)$ lies on line ℓ_{526}

$187 : P_{7282} = (17, 2, 6, 1)$ lies on line ℓ_{988}

$188 : P_{7305} = (8, 3, 6, 1)$ lies on line ℓ_{658}

$189 : P_{7352} = (23, 4, 6, 1)$ lies on line ℓ_{1021}

$190 : P_{7375} = (14, 5, 6, 1)$ lies on line ℓ_{691}

$191 : P_{7399} = (6, 6, 6, 1)$ lies on line ℓ_{97}

$192 : P_{7456} = (31, 7, 6, 1)$ lies on line ℓ_{559}

$193 : P_{7464} = (7, 8, 6, 1)$ lies on line ℓ_{1087}

$194 : P_{7519} = (30, 9, 6, 1)$ lies on line ℓ_{625}

$195 : P_{7543} = (22, 10, 6, 1)$ lies on line ℓ_{163}

$196 : P_{7568} = (15, 11, 6, 1)$ lies on line ℓ_{493}

$197 : P_{7601} = (16, 12, 6, 1)$ lies on line ℓ_{130}

$198 : P_{7626} = (9, 13, 6, 1)$ lies on line ℓ_{460}

$199 : P_{7650} = (1, 14, 6, 1)$ lies on line ℓ_{1054}

$200 : P_{7705} = (24, 15, 6, 1)$ lies on line ℓ_{592}

$201 : P_{7724} = (11, 16, 6, 1)$ lies on line ℓ_{955}

$202 : P_{7763} = (18, 17, 6, 1)$ lies on line ℓ_{757}

$203 : P_{7803} = (26, 18, 6, 1)$ lies on line ℓ_{295}

$204 : P_{7812} = (3, 19, 6, 1)$ lies on line ℓ_{361}

$205 : P_{7869} = (28, 20, 6, 1)$ lies on line ℓ_{262}

$206 : P_{7878} = (5, 21, 6, 1)$ lies on line ℓ_{328}

$207 : P_{7918} = (13, 22, 6, 1)$ lies on line ℓ_{922}

$208 : P_{7957} = (20, 23, 6, 1)$ lies on line ℓ_{724}

$209 : P_{7981} = (12, 24, 6, 1)$ lies on line ℓ_{196}

$210 : P_{8022} = (21, 25, 6, 1)$ lies on line ℓ_{394}

$211 : P_{8062} = (29, 26, 6, 1)$ lies on line ℓ_{856}

$212 : P_{8069} = (4, 27, 6, 1)$ lies on line ℓ_{790}

$213 : P_{8124} = (27, 28, 6, 1)$ lies on line ℓ_{889}

$214 : P_{8131} = (2, 29, 6, 1)$ lies on line ℓ_{823}

$215 : P_{8171} = (10, 30, 6, 1)$ lies on line ℓ_{229}

$216 : P_{8212} = (19, 31, 6, 1)$ lies on line ℓ_{427}

$217 : P_{8281} = (24, 1, 7, 1)$ lies on line ℓ_{460}

$218 : P_{8299} = (10, 2, 7, 1)$ lies on line ℓ_{856}

$219 : P_{8339} = (18, 3, 7, 1)$ lies on line ℓ_{724}

$220 : P_{8374} = (21, 4, 7, 1)$ lies on line ℓ_{757}

$221 : P_{8398} = (13, 5, 7, 1)$ lies on line ℓ_{889}

$222 : P_{8448} = (31, 6, 7, 1)$ lies on line ℓ_{493}

$223 : P_{8456} = (7, 7, 7, 1)$ lies on line ℓ_{97}

$224 : P_{8501} = (20, 8, 7, 1)$ lies on line ℓ_{559}

$225 : P_{8525} = (12, 9, 7, 1)$ lies on line ℓ_{163}

$226 : P_{8575} = (30, 10, 7, 1)$ lies on line ℓ_{823}

$227 : P_{8583} = (6, 11, 7, 1)$ lies on line ℓ_{955}

$228 : P_{8610} = (1, 12, 7, 1)$ lies on line ℓ_{922}

$229 : P_{8666} = (25, 13, 7, 1)$ lies on line ℓ_{790}

$230 : P_{8684} = (11, 14, 7, 1)$ lies on line ℓ_{130}
$231 : P_{8724} = (19, 15, 7, 1)$ lies on line ℓ_{526}
$232 : P_{8752} = (15, 16, 7, 1)$ lies on line ℓ_{1054}
$233 : P_{8792} = (23, 17, 7, 1)$ lies on line ℓ_{658}
$234 : P_{8806} = (5, 18, 7, 1)$ lies on line ℓ_{262}
$235 : P_{8862} = (29, 19, 7, 1)$ lies on line ℓ_{394}
$236 : P_{8891} = (26, 20, 7, 1)$ lies on line ℓ_{427}
$237 : P_{8899} = (2, 21, 7, 1)$ lies on line ℓ_{295}
$238 : P_{8945} = (16, 22, 7, 1)$ lies on line ℓ_{691}
$239 : P_{8969} = (8, 23, 7, 1)$ lies on line ℓ_{1087}
$240 : P_{9020} = (27, 24, 7, 1)$ lies on line ℓ_{625}
$241 : P_{9028} = (3, 25, 7, 1)$ lies on line ℓ_{1021}
$242 : P_{9074} = (17, 26, 7, 1)$ lies on line ℓ_{361}
$243 : P_{9098} = (9, 27, 7, 1)$ lies on line ℓ_{229}
$244 : P_{9135} = (14, 28, 7, 1)$ lies on line ℓ_{196}
$245 : P_{9175} = (22, 29, 7, 1)$ lies on line ℓ_{328}
$246 : P_{9189} = (4, 30, 7, 1)$ lies on line ℓ_{988}
$247 : P_{9245} = (28, 31, 7, 1)$ lies on line ℓ_{592}
$248 : P_{9300} = (19, 1, 8, 1)$ lies on line ℓ_{790}
$249 : P_{9317} = (4, 2, 8, 1)$ lies on line ℓ_{361}
$250 : P_{9368} = (23, 3, 8, 1)$ lies on line ℓ_{1087}
$251 : P_{9380} = (3, 4, 8, 1)$ lies on line ℓ_{658}
$252 : P_{9425} = (16, 5, 8, 1)$ lies on line ℓ_{196}
$253 : P_{9448} = (7, 6, 8, 1)$ lies on line ℓ_{955}
$254 : P_{9493} = (20, 7, 8, 1)$ lies on line ℓ_{493}
$255 : P_{9513} = (8, 8, 8, 1)$ lies on line ℓ_{97}
$256 : P_{9564} = (27, 9, 8, 1)$ lies on line ℓ_{823}
$257 : P_{9581} = (12, 10, 8, 1)$ lies on line ℓ_{328}
$258 : P_{9632} = (31, 11, 8, 1)$ lies on line ℓ_{1054}
$259 : P_{9644} = (11, 12, 8, 1)$ lies on line ℓ_{691}
$260 : P_{9689} = (24, 13, 8, 1)$ lies on line ℓ_{229}
$261 : P_{9712} = (15, 14, 8, 1)$ lies on line ℓ_{922}
$262 : P_{9757} = (28, 15, 8, 1)$ lies on line ℓ_{460}
$263 : P_{9767} = (6, 16, 8, 1)$ lies on line ℓ_{130}
$264 : P_{9814} = (21, 17, 8, 1)$ lies on line ℓ_{724}
$265 : P_{9827} = (2, 18, 8, 1)$ lies on line ℓ_{427}
$266 : P_{9874} = (17, 19, 8, 1)$ lies on line ℓ_{1021}
$267 : P_{9894} = (5, 20, 8, 1)$ lies on line ℓ_{592}
$268 : P_{9943} = (22, 21, 8, 1)$ lies on line ℓ_{262}
$269 : P_{9954} = (1, 22, 8, 1)$ lies on line ℓ_{889}
$270 : P_{10003} = (18, 23, 8, 1)$ lies on line ℓ_{559}
$271 : P_{10031} = (14, 24, 8, 1)$ lies on line ℓ_{163}
$272 : P_{10078} = (29, 25, 8, 1)$ lies on line ℓ_{757}
$273 : P_{10091} = (10, 26, 8, 1)$ lies on line ℓ_{394}
$274 : P_{10138} = (25, 27, 8, 1)$ lies on line ℓ_{988}
$275 : P_{10158} = (13, 28, 8, 1)$ lies on line ℓ_{625}
$276 : P_{10207} = (30, 29, 8, 1)$ lies on line ℓ_{295}
$277 : P_{10218} = (9, 30, 8, 1)$ lies on line ℓ_{856}
$278 : P_{10267} = (26, 31, 8, 1)$ lies on line ℓ_{526}
$279 : P_{10323} = (18, 1, 9, 1)$ lies on line ℓ_{196}
$280 : P_{10368} = (31, 2, 9, 1)$ lies on line ℓ_{328}
$281 : P_{10382} = (13, 3, 9, 1)$ lies on line ℓ_{460}
$282 : P_{10402} = (1, 4, 9, 1)$ lies on line ℓ_{592}
$283 : P_{10452} = (19, 5, 9, 1)$ lies on line ℓ_{724}

$284 : P_{10495} = (30, 6, 9, 1)$ lies on line ℓ_{856}
$285 : P_{10509} = (12, 7, 9, 1)$ lies on line ℓ_{988}
$286 : P_{10556} = (27, 8, 9, 1)$ lies on line ℓ_{229}
$287 : P_{10570} = (9, 9, 9, 1)$ lies on line ℓ_{97}
$288 : P_{10597} = (4, 10, 9, 1)$ lies on line ℓ_{493}
$289 : P_{10647} = (22, 11, 9, 1)$ lies on line ℓ_{361}
$290 : P_{10683} = (26, 12, 9, 1)$ lies on line ℓ_{757}
$291 : P_{10697} = (8, 13, 9, 1)$ lies on line ℓ_{625}
$292 : P_{10726} = (5, 14, 9, 1)$ lies on line ℓ_{1021}
$293 : P_{10776} = (23, 15, 9, 1)$ lies on line ℓ_{889}
$294 : P_{10787} = (2, 16, 9, 1)$ lies on line ℓ_{394}
$295 : P_{10833} = (16, 17, 9, 1)$ lies on line ℓ_{526}
$296 : P_{10878} = (29, 18, 9, 1)$ lies on line ℓ_{130}
$297 : P_{10896} = (15, 19, 9, 1)$ lies on line ℓ_{262}
$298 : P_{10916} = (3, 20, 9, 1)$ lies on line ℓ_{922}
$299 : P_{10962} = (17, 21, 9, 1)$ lies on line ℓ_{1054}
$300 : P_{11005} = (28, 22, 9, 1)$ lies on line ℓ_{658}
$301 : P_{11023} = (14, 23, 9, 1)$ lies on line ℓ_{790}
$302 : P_{11066} = (25, 24, 9, 1)$ lies on line ℓ_{559}
$303 : P_{11084} = (11, 25, 9, 1)$ lies on line ℓ_{427}
$304 : P_{11111} = (6, 26, 9, 1)$ lies on line ℓ_{295}
$305 : P_{11157} = (20, 27, 9, 1)$ lies on line ℓ_{163}
$306 : P_{11193} = (24, 28, 9, 1)$ lies on line ℓ_{1087}
$307 : P_{11211} = (10, 29, 9, 1)$ lies on line ℓ_{955}
$308 : P_{11240} = (7, 30, 9, 1)$ lies on line ℓ_{823}
$309 : P_{11286} = (21, 31, 9, 1)$ lies on line ℓ_{691}
$310 : P_{11337} = (8, 1, 10, 1)$ lies on line ℓ_{889}
$311 : P_{11367} = (6, 2, 10, 1)$ lies on line ℓ_{823}
$312 : P_{11407} = (14, 3, 10, 1)$ lies on line ℓ_{526}
$313 : P_{11441} = (16, 4, 10, 1)$ lies on line ℓ_{427}
$314 : P_{11481} = (24, 5, 10, 1)$ lies on line ℓ_{658}
$315 : P_{11511} = (22, 6, 10, 1)$ lies on line ℓ_{988}
$316 : P_{11551} = (30, 7, 10, 1)$ lies on line ℓ_{229}
$317 : P_{11565} = (12, 8, 10, 1)$ lies on line ℓ_{790}
$318 : P_{11589} = (4, 9, 10, 1)$ lies on line ℓ_{559}
$319 : P_{11627} = (10, 10, 10, 1)$ lies on line ℓ_{97}
$320 : P_{11651} = (2, 11, 10, 1)$ lies on line ℓ_{856}
$321 : P_{11709} = (28, 12, 10, 1)$ lies on line ℓ_{1021}
$322 : P_{11733} = (20, 13, 10, 1)$ lies on line ℓ_{196}
$323 : P_{11771} = (26, 14, 10, 1)$ lies on line ℓ_{394}
$324 : P_{11795} = (18, 15, 10, 1)$ lies on line ℓ_{691}
$325 : P_{11814} = (5, 16, 10, 1)$ lies on line ℓ_{361}
$326 : P_{11854} = (13, 17, 10, 1)$ lies on line ℓ_{592}
$327 : P_{11876} = (3, 18, 10, 1)$ lies on line ℓ_{1054}
$328 : P_{11916} = (11, 19, 10, 1)$ lies on line ℓ_{295}
$329 : P_{11958} = (21, 20, 10, 1)$ lies on line ℓ_{130}
$330 : P_{11998} = (29, 21, 10, 1)$ lies on line ℓ_{955}
$331 : P_{12020} = (19, 22, 10, 1)$ lies on line ℓ_{757}
$332 : P_{12060} = (27, 23, 10, 1)$ lies on line ℓ_{460}
$333 : P_{12074} = (9, 24, 10, 1)$ lies on line ℓ_{1087}
$334 : P_{12098} = (1, 25, 10, 1)$ lies on line ℓ_{262}
$335 : P_{12144} = (15, 26, 10, 1)$ lies on line ℓ_{328}
$336 : P_{12168} = (7, 27, 10, 1)$ lies on line ℓ_{625}
$337 : P_{12218} = (25, 28, 10, 1)$ lies on line ℓ_{724}

$338: P_{12242} = (17, 29, 10, 1)$ lies on line ℓ_{493}

$339: P_{12288} = (31, 30, 10, 1)$ lies on line ℓ_{163}

$340: P_{12312} = (23, 31, 10, 1)$ lies on line ℓ_{922}

$341: P_{12362} = (9, 1, 11, 1)$ lies on line ℓ_{592}

$342: P_{12414} = (29, 2, 11, 1)$ lies on line ℓ_{229}

$343: P_{12437} = (20, 3, 11, 1)$ lies on line ℓ_{757}

$344: P_{12467} = (18, 4, 11, 1)$ lies on line ℓ_{394}

$345: P_{12508} = (27, 5, 11, 1)$ lies on line ℓ_{922}

$346: P_{12528} = (15, 6, 11, 1)$ lies on line ℓ_{559}

$347: P_{12551} = (6, 7, 11, 1)$ lies on line ℓ_{1087}

$348: P_{12608} = (31, 8, 11, 1)$ lies on line ℓ_{724}

$349: P_{12631} = (22, 9, 11, 1)$ lies on line ℓ_{196}

$350: P_{12643} = (2, 10, 11, 1)$ lies on line ℓ_{625}

$351: P_{12684} = (11, 11, 11, 1)$ lies on line ℓ_{97}

$352: P_{12718} = (13, 12, 11, 1)$ lies on line ℓ_{1054}

$353: P_{12741} = (4, 13, 11, 1)$ lies on line ℓ_{526}

$354: P_{12785} = (16, 14, 11, 1)$ lies on line ℓ_{955}

$355: P_{12826} = (25, 15, 11, 1)$ lies on line ℓ_{427}

$356: P_{12834} = (1, 16, 11, 1)$ lies on line ℓ_{493}

$357: P_{12873} = (8, 17, 11, 1)$ lies on line ℓ_{1021}

$358: P_{12925} = (28, 18, 11, 1)$ lies on line ℓ_{328}

$359: P_{12950} = (21, 19, 11, 1)$ lies on line ℓ_{856}

$360: P_{12980} = (19, 20, 11, 1)$ lies on line ℓ_{295}

$361: P_{13019} = (26, 21, 11, 1)$ lies on line ℓ_{823}

$362: P_{13039} = (14, 22, 11, 1)$ lies on line ℓ_{130}

$363: P_{13064} = (7, 23, 11, 1)$ lies on line ℓ_{658}

$364: P_{13119} = (30, 24, 11, 1)$ lies on line ℓ_{889}

$365: P_{13144} = (23, 25, 11, 1)$ lies on line ℓ_{361}

$366: P_{13156} = (3, 26, 11, 1)$ lies on line ℓ_{988}

$367: P_{13195} = (10, 27, 11, 1)$ lies on line ℓ_{460}

$368: P_{13229} = (12, 28, 11, 1)$ lies on line ℓ_{691}

$369: P_{13254} = (5, 29, 11, 1)$ lies on line ℓ_{163}

$370: P_{13298} = (17, 30, 11, 1)$ lies on line ℓ_{790}

$371: P_{13337} = (24, 31, 11, 1)$ lies on line ℓ_{262}

$372: P_{13394} = (17, 1, 12, 1)$ lies on line ℓ_{295}

$373: P_{13432} = (23, 2, 12, 1)$ lies on line ℓ_{526}

$374: P_{13447} = (6, 3, 12, 1)$ lies on line ℓ_{361}

$375: P_{13480} = (7, 4, 12, 1)$ lies on line ℓ_{988}

$376: P_{13527} = (22, 5, 12, 1)$ lies on line ℓ_{955}

$377: P_{13553} = (16, 6, 12, 1)$ lies on line ℓ_{658}

$378: P_{13570} = (1, 7, 12, 1)$ lies on line ℓ_{757}

$379: P_{13612} = (11, 8, 12, 1)$ lies on line ℓ_{1021}

$380: P_{13659} = (26, 9, 12, 1)$ lies on line ℓ_{922}

$381: P_{13693} = (28, 10, 12, 1)$ lies on line ℓ_{691}

$382: P_{13710} = (13, 11, 12, 1)$ lies on line ℓ_{724}

$383: P_{13741} = (12, 12, 12, 1)$ lies on line ℓ_{97}

$384: P_{13790} = (29, 13, 12, 1)$ lies on line ℓ_{262}

$385: P_{13820} = (27, 14, 12, 1)$ lies on line ℓ_{559}

$386: P_{13835} = (10, 15, 12, 1)$ lies on line ℓ_{328}

$387: P_{13871} = (14, 16, 12, 1)$ lies on line ℓ_{1087}

$388: P_{13920} = (31, 17, 12, 1)$ lies on line ℓ_{856}

$389: P_{13946} = (25, 18, 12, 1)$ lies on line ℓ_{625}

$390: P_{13961} = (8, 19, 12, 1)$ lies on line ℓ_{790}

$391: P_{13994} = (9, 20, 12, 1)$ lies on line ℓ_{163}

$392: P_{14041} = (24, 21, 12, 1)$ lies on line ℓ_{196}

$393: P_{14079} = (30, 22, 12, 1)$ lies on line ℓ_{493}

$394: P_{14096} = (15, 23, 12, 1)$ lies on line ℓ_{394}

$395: P_{14118} = (5, 24, 12, 1)$ lies on line ℓ_{130}

$396: P_{14165} = (20, 25, 12, 1)$ lies on line ℓ_{229}

$397: P_{14195} = (18, 26, 12, 1)$ lies on line ℓ_{460}

$398: P_{14212} = (3, 27, 12, 1)$ lies on line ℓ_{427}

$399: P_{14243} = (2, 28, 12, 1)$ lies on line ℓ_{1054}

$400: P_{14292} = (19, 29, 12, 1)$ lies on line ℓ_{889}

$401: P_{14326} = (21, 30, 12, 1)$ lies on line ℓ_{592}

$402: P_{14341} = (4, 31, 12, 1)$ lies on line ℓ_{823}

$403: P_{14417} = (16, 1, 13, 1)$ lies on line ℓ_{559}

$404: P_{14445} = (12, 2, 13, 1)$ lies on line ℓ_{1054}

$405: P_{14493} = (28, 3, 13, 1)$ lies on line ℓ_{625}

$406: P_{14502} = (5, 4, 13, 1)$ lies on line ℓ_{889}

$407: P_{14550} = (21, 5, 13, 1)$ lies on line ℓ_{790}

$408: P_{14570} = (9, 6, 13, 1)$ lies on line ℓ_{295}

$409: P_{14618} = (25, 7, 13, 1)$ lies on line ℓ_{328}

$410: P_{14649} = (24, 8, 13, 1)$ lies on line ℓ_{823}

$411: P_{14665} = (8, 9, 13, 1)$ lies on line ℓ_{856}

$412: P_{14709} = (20, 10, 13, 1)$ lies on line ℓ_{361}

$413: P_{14725} = (4, 11, 13, 1)$ lies on line ℓ_{262}

$414: P_{14782} = (29, 12, 13, 1)$ lies on line ℓ_{526}

$415: P_{14798} = (13, 13, 13, 1)$ lies on line ℓ_{97}

$416: P_{14834} = (17, 14, 13, 1)$ lies on line ℓ_{592}

$417: P_{14850} = (1, 15, 13, 1)$ lies on line ℓ_{1087}

$418: P_{14891} = (10, 16, 13, 1)$ lies on line ℓ_{427}

$419: P_{14939} = (26, 17, 13, 1)$ lies on line ℓ_{196}

$420: P_{14951} = (6, 18, 13, 1)$ lies on line ℓ_{757}

$421: P_{14999} = (22, 19, 13, 1)$ lies on line ℓ_{922}

$422: P_{15024} = (15, 20, 13, 1)$ lies on line ℓ_{658}

$423: P_{15072} = (31, 21, 13, 1)$ lies on line ℓ_{1021}

$424: P_{15076} = (3, 22, 13, 1)$ lies on line ℓ_{460}

$425: P_{15124} = (19, 23, 13, 1)$ lies on line ℓ_{163}

$426: P_{15155} = (18, 24, 13, 1)$ lies on line ℓ_{988}

$427: P_{15171} = (2, 25, 13, 1)$ lies on line ℓ_{691}

$428: P_{15231} = (30, 26, 13, 1)$ lies on line ℓ_{130}

$429: P_{15247} = (14, 27, 13, 1)$ lies on line ℓ_{493}

$430: P_{15288} = (23, 28, 13, 1)$ lies on line ℓ_{229}

$431: P_{15304} = (7, 29, 13, 1)$ lies on line ℓ_{394}

$432: P_{15356} = (27, 30, 13, 1)$ lies on line ℓ_{955}

$433: P_{15372} = (11, 31, 13, 1)$ lies on line ℓ_{724}

$434: P_{15435} = (10, 1, 14, 1)$ lies on line ℓ_{262}

$435: P_{15478} = (21, 2, 14, 1)$ lies on line ℓ_{460}

$436: P_{15520} = (31, 3, 14, 1)$ lies on line ℓ_{394}

$437: P_{15541} = (20, 4, 14, 1)$ lies on line ℓ_{856}

$438: P_{15583} = (30, 5, 14, 1)$ lies on line ℓ_{1054}

$439: P_{15586} = (1, 6, 14, 1)$ lies on line ℓ_{724}

$440: P_{15628} = (11, 7, 14, 1)$ lies on line ℓ_{658}

$441: P_{15664} = (15, 8, 14, 1)$ lies on line ℓ_{757}

$442: P_{15686} = (5, 9, 14, 1)$ lies on line ℓ_{691}

$443: P_{15739} = (26, 10, 14, 1)$ lies on line ℓ_{889}

$444: P_{15761} = (16, 11, 14, 1)$ lies on line ℓ_{1087}

$445: P_{15804} = (27, 12, 14, 1)$ lies on line ℓ_{493}

$446: P_{15826} = (17, 13, 14, 1)$ lies on line ℓ_{427}

$447: P_{15855} = (14, 14, 14, 1)$ lies on line ℓ_{97}

$448: P_{15877} = (4, 15, 14, 1)$ lies on line ℓ_{295}

$449: P_{15918} = (13, 16, 14, 1)$ lies on line ℓ_{559}

$450: P_{15944} = (7, 17, 14, 1)$ lies on line ℓ_{361}

$451: P_{15993} = (24, 18, 14, 1)$ lies on line ℓ_{163}

$452: P_{16019} = (18, 19, 14, 1)$ lies on line ℓ_{229}

$453: P_{16058} = (25, 20, 14, 1)$ lies on line ℓ_{823}

$454: P_{16084} = (19, 21, 14, 1)$ lies on line ℓ_{625}

$455: P_{16109} = (12, 22, 14, 1)$ lies on line ℓ_{955}

$456: P_{16135} = (6, 23, 14, 1)$ lies on line ℓ_{1021}

$457: P_{16163} = (2, 24, 14, 1)$ lies on line ℓ_{922}

$458: P_{16201} = (8, 25, 14, 1)$ lies on line ℓ_{988}

$459: P_{16248} = (23, 26, 14, 1)$ lies on line ℓ_{790}

$460: P_{16286} = (29, 27, 14, 1)$ lies on line ℓ_{592}

$461: P_{16311} = (22, 28, 14, 1)$ lies on line ℓ_{130}

$462: P_{16349} = (28, 29, 14, 1)$ lies on line ℓ_{196}

$463: P_{16356} = (3, 30, 14, 1)$ lies on line ℓ_{526}

$464: P_{16394} = (9, 31, 14, 1)$ lies on line ℓ_{328}

$465: P_{16460} = (11, 1, 15, 1)$ lies on line ℓ_{493}

$466: P_{16495} = (14, 2, 15, 1)$ lies on line ℓ_{922}

$467: P_{16518} = (5, 3, 15, 1)$ lies on line ℓ_{823}

$468: P_{16567} = (22, 4, 15, 1)$ lies on line ℓ_{625}

$469: P_{16606} = (29, 5, 15, 1)$ lies on line ℓ_{988}

$470: P_{16633} = (24, 6, 15, 1)$ lies on line ℓ_{427}

$471: P_{16660} = (19, 7, 15, 1)$ lies on line ℓ_{262}

$472: P_{16701} = (28, 8, 15, 1)$ lies on line ℓ_{295}

$473: P_{16728} = (23, 9, 15, 1)$ lies on line ℓ_{394}

$474: P_{16755} = (18, 10, 15, 1)$ lies on line ℓ_{1021}

$475: P_{16794} = (25, 11, 15, 1)$ lies on line ℓ_{592}

$476: P_{16811} = (10, 12, 15, 1)$ lies on line ℓ_{790}

$477: P_{16834} = (1, 13, 15, 1)$ lies on line ℓ_{955}

$478: P_{16869} = (4, 14, 15, 1)$ lies on line ℓ_{460}

$479: P_{16912} = (15, 15, 15, 1)$ lies on line ℓ_{97}

$480: P_{16938} = (9, 16, 15, 1)$ lies on line ℓ_{526}

$481: P_{16963} = (2, 17, 15, 1)$ lies on line ℓ_{163}

$482: P_{17000} = (7, 18, 15, 1)$ lies on line ℓ_{724}

$483: P_{17037} = (12, 19, 15, 1)$ lies on line ℓ_{889}

$484: P_{17088} = (31, 20, 15, 1)$ lies on line ℓ_{1087}

$485: P_{17109} = (20, 21, 15, 1)$ lies on line ℓ_{658}

$486: P_{17138} = (17, 22, 15, 1)$ lies on line ℓ_{229}

$487: P_{17179} = (26, 23, 15, 1)$ lies on line ℓ_{328}

$488: P_{17206} = (21, 24, 15, 1)$ lies on line ℓ_{361}

$489: P_{17247} = (30, 25, 15, 1)$ lies on line ℓ_{196}

$490: P_{17276} = (27, 26, 15, 1)$ lies on line ℓ_{691}

$491: P_{17297} = (16, 27, 15, 1)$ lies on line ℓ_{1054}

$492: P_{17316} = (3, 28, 15, 1)$ lies on line ℓ_{856}

$493: P_{17353} = (8, 29, 15, 1)$ lies on line ℓ_{757}

$494: P_{17390} = (13, 30, 15, 1)$ lies on line ℓ_{130}

$495: P_{17415} = (6, 31, 15, 1)$ lies on line ℓ_{559}

$496: P_{17477} = (4, 1, 16, 1)$ lies on line ℓ_{427}

$497: P_{17508} = (3, 2, 16, 1)$ lies on line ℓ_{790}

$498: P_{17544} = (7, 3, 16, 1)$ lies on line ℓ_{1021}

$499: P_{17577} = (8, 4, 16, 1)$ lies on line ℓ_{361}

$500: P_{17613} = (12, 5, 16, 1)$ lies on line ℓ_{130}

$501: P_{17644} = (11, 6, 16, 1)$ lies on line ℓ_{1087}

$502: P_{17680} = (15, 7, 16, 1)$ lies on line ℓ_{724}

$503: P_{17703} = (6, 8, 16, 1)$ lies on line ℓ_{658}

$504: P_{17731} = (2, 9, 16, 1)$ lies on line ℓ_{889}

$505: P_{17766} = (5, 10, 16, 1)$ lies on line ℓ_{196}

$506: P_{17794} = (1, 11, 16, 1)$ lies on line ℓ_{559}

$507: P_{17839} = (14, 12, 16, 1)$ lies on line ℓ_{955}

$508: P_{17867} = (10, 13, 16, 1)$ lies on line ℓ_{592}

$509: P_{17902} = (13, 14, 16, 1)$ lies on line ℓ_{493}

$510: P_{17930} = (9, 15, 16, 1)$ lies on line ℓ_{262}

$511: P_{17969} = (16, 16, 16, 1)$ lies on line ℓ_{97}

$512: P_{18005} = (20, 17, 16, 1)$ lies on line ℓ_{394}

$513: P_{18036} = (19, 18, 16, 1)$ lies on line ℓ_{823}

$514: P_{18072} = (23, 19, 16, 1)$ lies on line ℓ_{988}

$515: P_{18105} = (24, 20, 16, 1)$ lies on line ℓ_{328}

$516: P_{18141} = (28, 21, 16, 1)$ lies on line ℓ_{163}

$517: P_{18172} = (27, 22, 16, 1)$ lies on line ℓ_{1054}

$518: P_{18208} = (31, 23, 16, 1)$ lies on line ℓ_{757}

$519: P_{18231} = (22, 24, 16, 1)$ lies on line ℓ_{691}

$520: P_{18259} = (18, 25, 16, 1)$ lies on line ℓ_{856}

$521: P_{18294} = (21, 26, 16, 1)$ lies on line ℓ_{229}

$522: P_{18322} = (17, 27, 16, 1)$ lies on line ℓ_{526}

$523: P_{18367} = (30, 28, 16, 1)$ lies on line ℓ_{922}

$524: P_{18395} = (26, 29, 16, 1)$ lies on line ℓ_{625}

$525: P_{18430} = (29, 30, 16, 1)$ lies on line ℓ_{460}

$526: P_{18458} = (25, 31, 16, 1)$ lies on line ℓ_{295}

$527: P_{18502} = (5, 1, 17, 1)$ lies on line ℓ_{856}

$528: P_{18553} = (24, 2, 17, 1)$ lies on line ℓ_{757}

$529: P_{18590} = (29, 3, 17, 1)$ lies on line ℓ_{493}

$530: P_{18603} = (10, 4, 17, 1)$ lies on line ℓ_{559}

$531: P_{18640} = (15, 5, 17, 1)$ lies on line ℓ_{823}

$532: P_{18675} = (18, 6, 17, 1)$ lies on line ℓ_{922}

$533: P_{18712} = (23, 7, 17, 1)$ lies on line ℓ_{130}

$534: P_{18742} = (21, 8, 17, 1)$ lies on line ℓ_{1054}

$535: P_{18769} = (16, 9, 17, 1)$ lies on line ℓ_{262}

$536: P_{18798} = (13, 10, 17, 1)$ lies on line ℓ_{427}

$537: P_{18825} = (8, 11, 17, 1)$ lies on line ℓ_{691}

$538: P_{18880} = (31, 12, 17, 1)$ lies on line ℓ_{625}

$539: P_{18907} = (26, 13, 17, 1)$ lies on line ℓ_{361}

$540: P_{18920} = (7, 14, 17, 1)$ lies on line ℓ_{196}

$541: P_{18947} = (2, 15, 17, 1)$ lies on line ℓ_{988}

$542: P_{18997} = (20, 16, 17, 1)$ lies on line ℓ_{889}

$543: P_{19026} = (17, 17, 17, 1)$ lies on line ℓ_{97}

$544: P_{19053} = (12, 18, 17, 1)$ lies on line ℓ_{460}

$545: P_{19082} = (9, 19, 17, 1)$ lies on line ℓ_{724}

$546: P_{19135} = (30, 20, 17, 1)$ lies on line ℓ_{790}

$547: P_{19164} = (27, 21, 17, 1)$ lies on line ℓ_{526}

$548: P_{19175} = (6, 22, 17, 1)$ lies on line ℓ_{163}

$549: P_{19204} = (3, 23, 17, 1)$ lies on line ℓ_{955}

$550: P_{19234} = (1, 24, 17, 1)$ lies on line ℓ_{295}

$551: P_{19269} = (4, 25, 17, 1)$ lies on line ℓ_{1087}

$552: P_{19322} = (25, 26, 17, 1)$ lies on line ℓ_{658}

$553: P_{19357} = (28, 27, 17, 1)$ lies on line ℓ_{394}

$554: P_{19372} = (11, 28, 17, 1)$ lies on line ℓ_{328}

$555: P_{19407} = (14, 29, 17, 1)$ lies on line ℓ_{592}

$556: P_{19444} = (19, 30, 17, 1)$ lies on line ℓ_{1021}

$557: P_{19479} = (22, 31, 17, 1)$ lies on line ℓ_{229}

$558: P_{19552} = (31, 1, 18, 1)$ lies on line ℓ_{130}

$559: P_{19554} = (1, 2, 18, 1)$ lies on line ℓ_{196}

$560: P_{19615} = (30, 3, 18, 1)$ lies on line ℓ_{262}

$561: P_{19644} = (27, 4, 18, 1)$ lies on line ℓ_{328}

$562: P_{19653} = (4, 5, 18, 1)$ lies on line ℓ_{394}

$563: P_{19707} = (26, 6, 18, 1)$ lies on line ℓ_{460}

$564: P_{19718} = (5, 7, 18, 1)$ lies on line ℓ_{526}

$565: P_{19747} = (2, 8, 18, 1)$ lies on line ℓ_{592}

$566: P_{19806} = (29, 9, 18, 1)$ lies on line ℓ_{658}

$567: P_{19812} = (3, 10, 18, 1)$ lies on line ℓ_{724}

$568: P_{19869} = (28, 11, 18, 1)$ lies on line ℓ_{790}

$569: P_{19898} = (25, 12, 18, 1)$ lies on line ℓ_{856}

$570: P_{19911} = (6, 13, 18, 1)$ lies on line ℓ_{922}

$571: P_{19961} = (24, 14, 18, 1)$ lies on line ℓ_{988}

$572: P_{19976} = (7, 15, 18, 1)$ lies on line ℓ_{1054}

$573: P_{20020} = (19, 16, 18, 1)$ lies on line ℓ_{229}

$574: P_{20045} = (12, 17, 18, 1)$ lies on line ℓ_{295}

$575: P_{20083} = (18, 18, 18, 1)$ lies on line ℓ_{97}

$576: P_{20110} = (13, 19, 18, 1)$ lies on line ℓ_{163}

$577: P_{20137} = (8, 20, 18, 1)$ lies on line ℓ_{493}

$578: P_{20184} = (23, 21, 18, 1)$ lies on line ℓ_{559}

$579: P_{20202} = (9, 22, 18, 1)$ lies on line ℓ_{361}

$580: P_{20247} = (22, 23, 18, 1)$ lies on line ℓ_{427}

$581: P_{20274} = (17, 24, 18, 1)$ lies on line ℓ_{757}

$582: P_{20303} = (14, 25, 18, 1)$ lies on line ℓ_{823}

$583: P_{20337} = (16, 26, 18, 1)$ lies on line ℓ_{625}

$584: P_{20368} = (15, 27, 18, 1)$ lies on line ℓ_{691}

$585: P_{20395} = (10, 28, 18, 1)$ lies on line ℓ_{1021}

$586: P_{20438} = (21, 29, 18, 1)$ lies on line ℓ_{1087}

$587: P_{20460} = (11, 30, 18, 1)$ lies on line ℓ_{889}

$588: P_{20501} = (20, 31, 18, 1)$ lies on line ℓ_{955}

$589: P_{20575} = (30, 1, 19, 1)$ lies on line ℓ_{1021}

$590: P_{20603} = (26, 2, 19, 1)$ lies on line ℓ_{1087}

$591: P_{20613} = (4, 3, 19, 1)$ lies on line ℓ_{130}

$592: P_{20666} = (25, 4, 19, 1)$ lies on line ℓ_{955}

$593: P_{20680} = (7, 5, 19, 1)$ lies on line ℓ_{262}

$594: P_{20708} = (3, 6, 19, 1)$ lies on line ℓ_{196}

$595: P_{20766} = (29, 7, 19, 1)$ lies on line ℓ_{889}

$596: P_{20786} = (17, 8, 19, 1)$ lies on line ℓ_{691}

$597: P_{20816} = (15, 9, 19, 1)$ lies on line ℓ_{526}

$598: P_{20844} = (11, 10, 19, 1)$ lies on line ℓ_{460}

$599: P_{20886} = (21, 11, 19, 1)$ lies on line ℓ_{625}

$600: P_{20905} = (8, 12, 19, 1)$ lies on line ℓ_{328}

$601: P_{20951} = (22, 13, 19, 1)$ lies on line ℓ_{757}

$602: P_{20979} = (18, 14, 19, 1)$ lies on line ℓ_{823}

$603: P_{21005} = (12, 15, 19, 1)$ lies on line ℓ_{394}

$604: P_{21048} = (23, 16, 19, 1)$ lies on line ℓ_{163}

$605: P_{21066} = (9, 17, 19, 1)$ lies on line ℓ_{1054}

$606: P_{21102} = (13, 18, 19, 1)$ lies on line ℓ_{988}

$607: P_{21140} = (19, 19, 19, 1)$ lies on line ℓ_{97}

$608: P_{21167} = (14, 20, 19, 1)$ lies on line ℓ_{856}

$609: P_{21201} = (16, 21, 19, 1)$ lies on line ℓ_{229}

$610: P_{21237} = (20, 22, 19, 1)$ lies on line ℓ_{295}

$611: P_{21259} = (10, 23, 19, 1)$ lies on line ℓ_{922}

$612: P_{21287} = (6, 24, 19, 1)$ lies on line ℓ_{592}

$613: P_{21337} = (24, 25, 19, 1)$ lies on line ℓ_{493}

$614: P_{21373} = (28, 26, 19, 1)$ lies on line ℓ_{559}

$615: P_{21379} = (2, 27, 19, 1)$ lies on line ℓ_{658}

$616: P_{21440} = (31, 28, 19, 1)$ lies on line ℓ_{427}

$617: P_{21442} = (1, 29, 19, 1)$ lies on line ℓ_{790}

$618: P_{21478} = (5, 30, 19, 1)$ lies on line ℓ_{724}

$619: P_{21532} = (27, 31, 19, 1)$ lies on line ℓ_{361}

$620: P_{21575} = (6, 1, 20, 1)$ lies on line ℓ_{1054}

$621: P_{21617} = (16, 2, 20, 1)$ lies on line ℓ_{889}

$622: P_{21655} = (22, 3, 20, 1)$ lies on line ℓ_{295}

$623: P_{21677} = (12, 4, 20, 1)$ lies on line ℓ_{823}

$624: P_{21707} = (10, 5, 20, 1)$ lies on line ℓ_{361}

$625: P_{21757} = (28, 6, 20, 1)$ lies on line ℓ_{526}

$626: P_{21787} = (26, 7, 20, 1)$ lies on line ℓ_{592}

$627: P_{21798} = (5, 8, 20, 1)$ lies on line ℓ_{427}

$628: P_{21828} = (3, 9, 20, 1)$ lies on line ℓ_{757}

$629: P_{21878} = (21, 10, 20, 1)$ lies on line ℓ_{658}

$630: P_{21908} = (19, 11, 20, 1)$ lies on line ℓ_{460}

$631: P_{21930} = (9, 12, 20, 1)$ lies on line ℓ_{988}

$632: P_{21968} = (15, 13, 20, 1)$ lies on line ℓ_{130}

$633: P_{22010} = (25, 14, 20, 1)$ lies on line ℓ_{229}

$634: P_{22048} = (31, 15, 20, 1)$ lies on line ℓ_{955}

$635: P_{22073} = (24, 16, 20, 1)$ lies on line ℓ_{790}

$636: P_{22111} = (30, 17, 20, 1)$ lies on line ℓ_{328}

$637: P_{22121} = (8, 18, 20, 1)$ lies on line ℓ_{559}

$638: P_{22159} = (14, 19, 20, 1)$ lies on line ℓ_{625}

$639: P_{22197} = (20, 20, 20, 1)$ lies on line ℓ_{97}

$640: P_{22227} = (18, 21, 20, 1)$ lies on line ℓ_{1087}

$641: P_{22245} = (4, 22, 20, 1)$ lies on line ℓ_{856}

$642: P_{22275} = (2, 23, 20, 1)$ lies on line ℓ_{262}

$643: P_{22334} = (29, 24, 20, 1)$ lies on line ℓ_{1021}

$644: P_{22364} = (27, 25, 20, 1)$ lies on line ℓ_{163}

$645: P_{22382} = (13, 26, 20, 1)$ lies on line ℓ_{196}

$646: P_{22412} = (11, 27, 20, 1)$ lies on line ℓ_{922}

$647: P_{22450} = (17, 28, 20, 1)$ lies on line ℓ_{394}

$648: P_{22488} = (23, 29, 20, 1)$ lies on line ℓ_{724}

$649: P_{22498} = (1, 30, 20, 1)$ lies on line ℓ_{691}

$650: P_{22536} = (7, 31, 20, 1)$ lies on line ℓ_{493}

$651: P_{22600} = (7, 1, 21, 1)$ lies on line ℓ_{922}

$652: P_{22636} = (11, 2, 21, 1)$ lies on line ℓ_{625}

$653: P_{22669} = (12, 3, 21, 1)$ lies on line ℓ_{427}

$654: P_{22703} = (14, 4, 21, 1)$ lies on line ℓ_{295}

$655: P_{22730} = (9, 5, 21, 1)$ lies on line ℓ_{1021}

$656: P_{22758} = (5, 6, 21, 1)$ lies on line ℓ_{790}

$657: P_{22787} = (2, 7, 21, 1)$ lies on line ℓ_{460}

$658: P_{22839} = (22, 8, 21, 1)$ lies on line ℓ_{526}

$659: P_{22866} = (17, 9, 21, 1)$ lies on line ℓ_{724}

$660: P_{22910} = (29, 10, 21, 1)$ lies on line ℓ_{1087}

$661: P_{22939} = (26, 11, 21, 1)$ lies on line ℓ_{229}

662 : $P_{22969} = (24, 12, 21, 1)$ lies on line ℓ_{361}

663 : $P_{23008} = (31, 13, 21, 1)$ lies on line ℓ_{691}

664 : $P_{23028} = (19, 14, 21, 1)$ lies on line ℓ_{856}

665 : $P_{23061} = (20, 15, 21, 1)$ lies on line ℓ_{130}

666 : $P_{23101} = (28, 16, 21, 1)$ lies on line ℓ_{988}

667 : $P_{23132} = (27, 17, 21, 1)$ lies on line ℓ_{262}

668 : $P_{23160} = (23, 18, 21, 1)$ lies on line ℓ_{493}

669 : $P_{23185} = (16, 19, 21, 1)$ lies on line ℓ_{823}

670 : $P_{23219} = (18, 20, 21, 1)$ lies on line ℓ_{955}

671 : $P_{23254} = (21, 21, 21, 1)$ lies on line ℓ_{97}

672 : $P_{23290} = (25, 22, 21, 1)$ lies on line ℓ_{394}

673 : $P_{23327} = (30, 23, 21, 1)$ lies on line ℓ_{592}

674 : $P_{23339} = (10, 24, 21, 1)$ lies on line ℓ_{658}

675 : $P_{23374} = (13, 25, 21, 1)$ lies on line ℓ_{328}

676 : $P_{23394} = (1, 26, 21, 1)$ lies on line ℓ_{163}

677 : $P_{23431} = (6, 27, 21, 1)$ lies on line ℓ_{889}

678 : $P_{23461} = (4, 28, 21, 1)$ lies on line ℓ_{757}

679 : $P_{23492} = (3, 29, 21, 1)$ lies on line ℓ_{559}

680 : $P_{23536} = (15, 30, 21, 1)$ lies on line ℓ_{196}

681 : $P_{23561} = (8, 31, 21, 1)$ lies on line ℓ_{1054}

682 : $P_{23646} = (29, 1, 22, 1)$ lies on line ℓ_{328}

683 : $P_{23667} = (18, 2, 22, 1)$ lies on line ℓ_{592}

684 : $P_{23696} = (15, 3, 22, 1)$ lies on line ℓ_{856}

685 : $P_{23744} = (31, 4, 22, 1)$ lies on line ℓ_{229}

686 : $P_{23747} = (2, 5, 22, 1)$ lies on line ℓ_{493}

687 : $P_{23790} = (13, 6, 22, 1)$ lies on line ℓ_{757}

688 : $P_{23825} = (16, 7, 22, 1)$ lies on line ℓ_{1021}

689 : $P_{23842} = (1, 8, 22, 1)$ lies on line ℓ_{394}

690 : $P_{23901} = (28, 9, 22, 1)$ lies on line ℓ_{130}

691 : $P_{23924} = (19, 10, 22, 1)$ lies on line ℓ_{922}

692 : $P_{23951} = (14, 11, 22, 1)$ lies on line ℓ_{658}

693 : $P_{23999} = (30, 12, 22, 1)$ lies on line ℓ_{559}

694 : $P_{24004} = (3, 13, 22, 1)$ lies on line ℓ_{295}

695 : $P_{24045} = (12, 14, 22, 1)$ lies on line ℓ_{1087}

696 : $P_{24082} = (17, 15, 22, 1)$ lies on line ℓ_{823}

697 : $P_{24124} = (27, 16, 22, 1)$ lies on line ℓ_{724}

698 : $P_{24135} = (6, 17, 22, 1)$ lies on line ℓ_{988}

699 : $P_{24170} = (9, 18, 22, 1)$ lies on line ℓ_{196}

700 : $P_{24213} = (20, 19, 22, 1)$ lies on line ℓ_{460}

701 : $P_{24229} = (4, 20, 22, 1)$ lies on line ℓ_{625}

702 : $P_{24282} = (25, 21, 22, 1)$ lies on line ℓ_{889}

703 : $P_{24311} = (22, 22, 22, 1)$ lies on line ℓ_{97}

704 : $P_{24332} = (11, 23, 22, 1)$ lies on line ℓ_{361}

705 : $P_{24379} = (26, 24, 22, 1)$ lies on line ℓ_{1054}

706 : $P_{24392} = (7, 25, 22, 1)$ lies on line ℓ_{790}

707 : $P_{24425} = (8, 26, 22, 1)$ lies on line ℓ_{526}

708 : $P_{24470} = (21, 27, 22, 1)$ lies on line ℓ_{262}

709 : $P_{24486} = (5, 28, 22, 1)$ lies on line ℓ_{955}

710 : $P_{24537} = (24, 29, 22, 1)$ lies on line ℓ_{691}

711 : $P_{24568} = (23, 30, 22, 1)$ lies on line ℓ_{427}

712 : $P_{24587} = (10, 31, 22, 1)$ lies on line ℓ_{163}

713 : $P_{24669} = (28, 1, 23, 1)$ lies on line ℓ_{229}

714 : $P_{24682} = (9, 2, 23, 1)$ lies on line ℓ_{394}

715 : $P_{24726} = (21, 3, 23, 1)$ lies on line ℓ_{559}

716 : $P_{24766} = (29, 4, 23, 1)$ lies on line ℓ_{724}

717 : $P_{24770} = (1, 5, 23, 1)$ lies on line ℓ_{625}

718 : $P_{24821} = (20, 6, 23, 1)$ lies on line ℓ_{1054}

719 : $P_{24841} = (8, 7, 23, 1)$ lies on line ℓ_{955}

720 : $P_{24883} = (18, 8, 23, 1)$ lies on line ℓ_{493}

721 : $P_{24911} = (14, 9, 23, 1)$ lies on line ℓ_{328}

722 : $P_{24956} = (27, 10, 23, 1)$ lies on line ℓ_{295}

723 : $P_{24968} = (7, 11, 23, 1)$ lies on line ℓ_{130}

724 : $P_{25008} = (15, 12, 23, 1)$ lies on line ℓ_{889}

725 : $P_{25044} = (19, 13, 23, 1)$ lies on line ℓ_{988}

726 : $P_{25063} = (6, 14, 23, 1)$ lies on line ℓ_{691}

727 : $P_{25115} = (26, 15, 23, 1)$ lies on line ℓ_{790}

728 : $P_{25152} = (31, 16, 23, 1)$ lies on line ℓ_{922}

729 : $P_{25156} = (3, 17, 23, 1)$ lies on line ℓ_{1087}

730 : $P_{25207} = (22, 18, 23, 1)$ lies on line ℓ_{592}

731 : $P_{25227} = (10, 19, 23, 1)$ lies on line ℓ_{757}

732 : $P_{25251} = (2, 20, 23, 1)$ lies on line ℓ_{526}

733 : $P_{25311} = (30, 21, 23, 1)$ lies on line ℓ_{427}

734 : $P_{25324} = (11, 22, 23, 1)$ lies on line ℓ_{196}

735 : $P_{25368} = (23, 23, 23, 1)$ lies on line ℓ_{97}

736 : $P_{25390} = (13, 24, 23, 1)$ lies on line ℓ_{823}

737 : $P_{25426} = (17, 25, 23, 1)$ lies on line ℓ_{658}

738 : $P_{25445} = (4, 26, 23, 1)$ lies on line ℓ_{1021}

739 : $P_{25497} = (24, 27, 23, 1)$ lies on line ℓ_{856}

740 : $P_{25521} = (16, 28, 23, 1)$ lies on line ℓ_{163}

741 : $P_{25549} = (12, 29, 23, 1)$ lies on line ℓ_{262}

742 : $P_{25594} = (25, 30, 23, 1)$ lies on line ℓ_{361}

743 : $P_{25606} = (5, 31, 23, 1)$ lies on line ℓ_{460}

744 : $P_{25688} = (23, 1, 24, 1)$ lies on line ℓ_{625}

745 : $P_{25704} = (7, 2, 24, 1)$ lies on line ℓ_{295}

746 : $P_{25745} = (16, 3, 24, 1)$ lies on line ℓ_{790}

747 : $P_{25772} = (11, 4, 24, 1)$ lies on line ℓ_{526}

748 : $P_{25821} = (28, 5, 24, 1)$ lies on line ℓ_{1087}

749 : $P_{25837} = (12, 6, 24, 1)$ lies on line ℓ_{361}

750 : $P_{25884} = (27, 7, 24, 1)$ lies on line ℓ_{856}

751 : $P_{25903} = (14, 8, 24, 1)$ lies on line ℓ_{988}

752 : $P_{25946} = (25, 9, 24, 1)$ lies on line ℓ_{493}

753 : $P_{25962} = (9, 10, 24, 1)$ lies on line ℓ_{955}

754 : $P_{26015} = (30, 11, 24, 1)$ lies on line ℓ_{394}

755 : $P_{26022} = (5, 12, 24, 1)$ lies on line ℓ_{658}

756 : $P_{26067} = (18, 13, 24, 1)$ lies on line ℓ_{163}

757 : $P_{26083} = (2, 14, 24, 1)$ lies on line ℓ_{757}

758 : $P_{26134} = (21, 15, 24, 1)$ lies on line ℓ_{196}

759 : $P_{26167} = (22, 16, 24, 1)$ lies on line ℓ_{1021}

760 : $P_{26178} = (1, 17, 24, 1)$ lies on line ℓ_{460}

761 : $P_{26226} = (17, 18, 24, 1)$ lies on line ℓ_{922}

762 : $P_{26247} = (6, 19, 24, 1)$ lies on line ℓ_{427}

763 : $P_{26302} = (29, 20, 24, 1)$ lies on line ℓ_{691}

764 : $P_{26315} = (10, 21, 24, 1)$ lies on line ℓ_{130}

765 : $P_{26363} = (26, 22, 24, 1)$ lies on line ℓ_{724}

766 : $P_{26382} = (13, 23, 24, 1)$ lies on line ℓ_{229}

767 : $P_{26425} = (24, 24, 24, 1)$ lies on line ℓ_{97}

768 : $P_{26448} = (15, 25, 24, 1)$ lies on line ℓ_{592}

769 : $P_{26496} = (31, 26, 24, 1)$ lies on line ℓ_{262}

$770 : P_{26505} = (8, 27, 24, 1)$ lies on line ℓ_{823}

$771 : P_{26548} = (19, 28, 24, 1)$ lies on line ℓ_{559}

$772 : P_{26565} = (4, 29, 24, 1)$ lies on line ℓ_{1054}

$773 : P_{26613} = (20, 30, 24, 1)$ lies on line ℓ_{328}

$774 : P_{26628} = (3, 31, 24, 1)$ lies on line ℓ_{889}

$775 : P_{26711} = (22, 1, 25, 1)$ lies on line ℓ_{394}

$776 : P_{26749} = (28, 2, 25, 1)$ lies on line ℓ_{724}

$777 : P_{26763} = (10, 3, 25, 1)$ lies on line ℓ_{1054}

$778 : P_{26794} = (9, 4, 25, 1)$ lies on line ℓ_{493}

$779 : P_{26848} = (31, 5, 25, 1)$ lies on line ℓ_{295}

$780 : P_{26870} = (21, 6, 25, 1)$ lies on line ℓ_{889}

$781 : P_{26884} = (3, 7, 25, 1)$ lies on line ℓ_{691}

$782 : P_{26942} = (29, 8, 25, 1)$ lies on line ℓ_{922}

$783 : P_{26956} = (11, 9, 25, 1)$ lies on line ℓ_{592}

$784 : P_{26978} = (1, 10, 25, 1)$ lies on line ℓ_{526}

$785 : P_{27032} = (23, 11, 25, 1)$ lies on line ℓ_{196}

$786 : P_{27061} = (20, 12, 25, 1)$ lies on line ℓ_{823}

$787 : P_{27075} = (2, 13, 25, 1)$ lies on line ℓ_{1021}

$788 : P_{27113} = (8, 14, 25, 1)$ lies on line ℓ_{163}

$789 : P_{27167} = (30, 15, 25, 1)$ lies on line ℓ_{361}

$790 : P_{27187} = (18, 16, 25, 1)$ lies on line ℓ_{625}

$791 : P_{27205} = (4, 17, 25, 1)$ lies on line ℓ_{955}

$792 : P_{27247} = (14, 18, 25, 1)$ lies on line ℓ_{229}

$793 : P_{27289} = (24, 19, 25, 1)$ lies on line ℓ_{559}

$794 : P_{27324} = (27, 20, 25, 1)$ lies on line ℓ_{988}

$795 : P_{27342} = (13, 21, 25, 1)$ lies on line ℓ_{790}

$796 : P_{27368} = (7, 22, 25, 1)$ lies on line ℓ_{328}

$797 : P_{27410} = (17, 23, 25, 1)$ lies on line ℓ_{130}

$798 : P_{27440} = (15, 24, 25, 1)$ lies on line ℓ_{427}

$799 : P_{27482} = (25, 25, 25, 1)$ lies on line ℓ_{97}

$800 : P_{27508} = (19, 26, 25, 1)$ lies on line ℓ_{1087}

$801 : P_{27526} = (5, 27, 25, 1)$ lies on line ℓ_{757}

$802 : P_{27559} = (6, 28, 25, 1)$ lies on line ℓ_{262}

$803 : P_{27601} = (16, 29, 25, 1)$ lies on line ℓ_{460}

$804 : P_{27643} = (26, 30, 25, 1)$ lies on line ℓ_{658}

$805 : P_{27661} = (12, 31, 25, 1)$ lies on line ℓ_{856}

$806 : P_{27725} = (12, 1, 26, 1)$ lies on line ℓ_{757}

$807 : P_{27750} = (5, 2, 26, 1)$ lies on line ℓ_{559}

$808 : P_{27786} = (9, 3, 26, 1)$ lies on line ℓ_{922}

$809 : P_{27833} = (24, 4, 26, 1)$ lies on line ℓ_{1054}

$810 : P_{27861} = (20, 5, 26, 1)$ lies on line ℓ_{427}

$811 : P_{27902} = (29, 6, 26, 1)$ lies on line ℓ_{625}

$812 : P_{27922} = (17, 7, 26, 1)$ lies on line ℓ_{196}

$813 : P_{27947} = (10, 8, 26, 1)$ lies on line ℓ_{889}

$814 : P_{27975} = (6, 9, 26, 1)$ lies on line ℓ_{460}

$815 : P_{28016} = (15, 10, 26, 1)$ lies on line ℓ_{790}

$816 : P_{28036} = (3, 11, 26, 1)$ lies on line ℓ_{163}

$817 : P_{28083} = (18, 12, 26, 1)$ lies on line ℓ_{295}

$818 : P_{28127} = (30, 13, 26, 1)$ lies on line ℓ_{658}

$819 : P_{28152} = (23, 14, 26, 1)$ lies on line ℓ_{328}

$820 : P_{28188} = (27, 15, 26, 1)$ lies on line ℓ_{1021}

$821 : P_{28214} = (21, 16, 26, 1)$ lies on line ℓ_{823}

$822 : P_{28250} = (25, 17, 26, 1)$ lies on line ℓ_{130}

$823 : P_{28273} = (16, 18, 26, 1)$ lies on line ℓ_{856}

$824 : P_{28317} = (28, 19, 26, 1)$ lies on line ℓ_{493}

$825 : P_{28334} = (13, 20, 26, 1)$ lies on line ℓ_{361}

$826 : P_{28354} = (1, 21, 26, 1)$ lies on line ℓ_{988}

$827 : P_{28393} = (8, 22, 26, 1)$ lies on line ℓ_{262}

$828 : P_{28421} = (4, 23, 26, 1)$ lies on line ℓ_{691}

$829 : P_{28480} = (31, 24, 26, 1)$ lies on line ℓ_{526}

$830 : P_{28500} = (19, 25, 26, 1)$ lies on line ℓ_{955}

$831 : P_{28539} = (26, 26, 26, 1)$ lies on line ℓ_{97}

$832 : P_{28567} = (22, 27, 26, 1)$ lies on line ℓ_{724}

$833 : P_{28584} = (7, 28, 26, 1)$ lies on line ℓ_{592}

$834 : P_{28620} = (11, 29, 26, 1)$ lies on line ℓ_{229}

$835 : P_{28643} = (2, 30, 26, 1)$ lies on line ℓ_{1087}

$836 : P_{28687} = (14, 31, 26, 1)$ lies on line ℓ_{394}

$837 : P_{28750} = (13, 1, 27, 1)$ lies on line ℓ_{1087}

$838 : P_{28799} = (30, 2, 27, 1)$ lies on line ℓ_{955}

$839 : P_{28820} = (19, 3, 27, 1)$ lies on line ℓ_{196}

$840 : P_{28859} = (26, 4, 27, 1)$ lies on line ℓ_{691}

$841 : P_{28888} = (23, 5, 27, 1)$ lies on line ℓ_{460}

$842 : P_{28901} = (4, 6, 27, 1)$ lies on line ℓ_{328}

$843 : P_{28938} = (9, 7, 27, 1)$ lies on line ℓ_{823}

$844 : P_{28986} = (25, 8, 27, 1)$ lies on line ℓ_{163}

$845 : P_{29013} = (20, 9, 27, 1)$ lies on line ℓ_{988}

$846 : P_{29032} = (7, 10, 27, 1)$ lies on line ℓ_{856}

$847 : P_{29067} = (10, 11, 27, 1)$ lies on line ℓ_{295}

$848 : P_{29092} = (3, 12, 27, 1)$ lies on line ℓ_{592}

$849 : P_{29135} = (14, 13, 27, 1)$ lies on line ℓ_{559}

$850 : P_{29182} = (29, 14, 27, 1)$ lies on line ℓ_{427}

$851 : P_{29201} = (16, 15, 27, 1)$ lies on line ℓ_{724}

$852 : P_{29234} = (17, 16, 27, 1)$ lies on line ℓ_{262}

$853 : P_{29277} = (28, 17, 27, 1)$ lies on line ℓ_{889}

$854 : P_{29296} = (15, 18, 27, 1)$ lies on line ℓ_{1021}

$855 : P_{29315} = (2, 19, 27, 1)$ lies on line ℓ_{130}

$856 : P_{29356} = (11, 20, 27, 1)$ lies on line ℓ_{757}

$857 : P_{29383} = (6, 21, 27, 1)$ lies on line ℓ_{394}

$858 : P_{29430} = (21, 22, 27, 1)$ lies on line ℓ_{526}

$859 : P_{29465} = (24, 23, 27, 1)$ lies on line ℓ_{625}

$860 : P_{29481} = (8, 24, 27, 1)$ lies on line ℓ_{229}

$861 : P_{29510} = (5, 25, 27, 1)$ lies on line ℓ_{922}

$862 : P_{29559} = (22, 26, 27, 1)$ lies on line ℓ_{1054}

$863 : P_{29596} = (27, 27, 27, 1)$ lies on line ℓ_{97}

$864 : P_{29619} = (18, 28, 27, 1)$ lies on line ℓ_{790}

$865 : P_{29664} = (31, 29, 27, 1)$ lies on line ℓ_{361}

$866 : P_{29677} = (12, 30, 27, 1)$ lies on line ℓ_{493}

$867 : P_{29698} = (1, 31, 27, 1)$ lies on line ℓ_{658}

$868 : P_{29782} = (21, 1, 28, 1)$ lies on line ℓ_{163}

$869 : P_{29813} = (20, 2, 28, 1)$ lies on line ℓ_{262}

$870 : P_{29826} = (1, 3, 28, 1)$ lies on line ℓ_{229}

$871 : P_{29872} = (15, 4, 28, 1)$ lies on line ℓ_{460}

$872 : P_{29915} = (26, 5, 28, 1)$ lies on line ℓ_{559}

$873 : P_{29948} = (27, 6, 28, 1)$ lies on line ℓ_{394}

$874 : P_{29967} = (14, 7, 28, 1)$ lies on line ℓ_{361}

$875 : P_{29998} = (13, 8, 28, 1)$ lies on line ℓ_{856}

$876 : P_{30041} = (24, 9, 28, 1)$ lies on line ℓ_{955}

$877 : P_{30074} = (25, 10, 28, 1)$ lies on line ℓ_{1054}

878 : $P_{30093} = (12, 11, 28, 1)$ lies on line ℓ_{1021}
879 : $P_{30115} = (2, 12, 28, 1)$ lies on line ℓ_{724}
880 : $P_{30168} = (23, 13, 28, 1)$ lies on line ℓ_{823}
881 : $P_{30199} = (22, 14, 28, 1)$ lies on line ℓ_{658}
882 : $P_{30212} = (3, 15, 28, 1)$ lies on line ℓ_{625}
883 : $P_{30271} = (30, 16, 28, 1)$ lies on line ℓ_{757}
884 : $P_{30284} = (11, 17, 28, 1)$ lies on line ℓ_{790}
885 : $P_{30315} = (10, 18, 28, 1)$ lies on line ℓ_{691}
886 : $P_{30368} = (31, 19, 28, 1)$ lies on line ℓ_{592}
887 : $P_{30386} = (17, 20, 28, 1)$ lies on line ℓ_{889}
888 : $P_{30405} = (4, 21, 28, 1)$ lies on line ℓ_{922}
889 : $P_{30438} = (5, 22, 28, 1)$ lies on line ℓ_{1087}
890 : $P_{30481} = (16, 23, 28, 1)$ lies on line ℓ_{988}
891 : $P_{30516} = (19, 24, 28, 1)$ lies on line ℓ_{493}
892 : $P_{30535} = (6, 25, 28, 1)$ lies on line ℓ_{526}
893 : $P_{30568} = (7, 26, 28, 1)$ lies on line ℓ_{427}
894 : $P_{30611} = (18, 27, 28, 1)$ lies on line ℓ_{328}
895 : $P_{30653} = (28, 28, 28, 1)$ lies on line ℓ_{97}
896 : $P_{30666} = (9, 29, 28, 1)$ lies on line ℓ_{130}
897 : $P_{30697} = (8, 30, 28, 1)$ lies on line ℓ_{295}
898 : $P_{30750} = (29, 31, 28, 1)$ lies on line ℓ_{196}
899 : $P_{30805} = (20, 1, 29, 1)$ lies on line ℓ_{691}
900 : $P_{30832} = (15, 2, 29, 1)$ lies on line ℓ_{163}
901 : $P_{30876} = (27, 3, 29, 1)$ lies on line ℓ_{592}
902 : $P_{30894} = (13, 4, 29, 1)$ lies on line ℓ_{262}
903 : $P_{30938} = (25, 5, 29, 1)$ lies on line ℓ_{757}
904 : $P_{30947} = (2, 6, 29, 1)$ lies on line ℓ_{229}
905 : $P_{30999} = (22, 7, 29, 1)$ lies on line ℓ_{790}
906 : $P_{31039} = (30, 8, 29, 1)$ lies on line ℓ_{460}
907 : $P_{31051} = (10, 9, 29, 1)$ lies on line ℓ_{1087}
908 : $P_{31090} = (17, 10, 29, 1)$ lies on line ℓ_{559}
909 : $P_{31110} = (5, 11, 29, 1)$ lies on line ℓ_{988}
910 : $P_{31156} = (19, 12, 29, 1)$ lies on line ℓ_{394}
911 : $P_{31176} = (7, 13, 29, 1)$ lies on line ℓ_{889}
912 : $P_{31229} = (28, 14, 29, 1)$ lies on line ℓ_{361}
913 : $P_{31241} = (8, 15, 29, 1)$ lies on line ℓ_{922}
914 : $P_{31291} = (26, 16, 29, 1)$ lies on line ℓ_{856}
915 : $P_{31311} = (14, 17, 29, 1)$ lies on line ℓ_{427}
916 : $P_{31350} = (21, 18, 29, 1)$ lies on line ℓ_{955}
917 : $P_{31362} = (1, 19, 29, 1)$ lies on line ℓ_{328}
918 : $P_{31416} = (23, 20, 29, 1)$ lies on line ℓ_{1054}
919 : $P_{31428} = (3, 21, 29, 1)$ lies on line ℓ_{493}
920 : $P_{31481} = (24, 22, 29, 1)$ lies on line ℓ_{1021}
921 : $P_{31501} = (12, 23, 29, 1)$ lies on line ℓ_{526}
922 : $P_{31525} = (4, 24, 29, 1)$ lies on line ℓ_{724}
923 : $P_{31569} = (16, 25, 29, 1)$ lies on line ℓ_{295}
924 : $P_{31596} = (11, 26, 29, 1)$ lies on line ℓ_{823}
925 : $P_{31648} = (31, 27, 29, 1)$ lies on line ℓ_{196}
926 : $P_{31658} = (9, 28, 29, 1)$ lies on line ℓ_{658}
927 : $P_{31710} = (29, 29, 29, 1)$ lies on line ℓ_{97}
928 : $P_{31719} = (6, 30, 29, 1)$ lies on line ℓ_{625}
929 : $P_{31763} = (18, 31, 29, 1)$ lies on line ℓ_{130}
930 : $P_{31823} = (14, 1, 30, 1)$ lies on line ℓ_{724}
931 : $P_{31863} = (22, 2, 30, 1)$ lies on line ℓ_{493}

932 : $P_{31897} = (24, 3, 30, 1)$ lies on line ℓ_{889}
933 : $P_{31933} = (28, 4, 30, 1)$ lies on line ℓ_{922}
934 : $P_{31955} = (18, 5, 30, 1)$ lies on line ℓ_{526}
935 : $P_{31979} = (10, 6, 30, 1)$ lies on line ℓ_{823}
936 : $P_{32005} = (4, 7, 30, 1)$ lies on line ℓ_{163}
937 : $P_{32042} = (9, 8, 30, 1)$ lies on line ℓ_{625}
938 : $P_{32072} = (7, 9, 30, 1)$ lies on line ℓ_{229}
939 : $P_{32128} = (31, 10, 30, 1)$ lies on line ℓ_{988}
940 : $P_{32146} = (17, 11, 30, 1)$ lies on line ℓ_{328}
941 : $P_{32182} = (21, 12, 30, 1)$ lies on line ℓ_{427}
942 : $P_{32220} = (27, 13, 30, 1)$ lies on line ℓ_{1087}
943 : $P_{32228} = (3, 14, 30, 1)$ lies on line ℓ_{262}
944 : $P_{32270} = (13, 15, 30, 1)$ lies on line ℓ_{658}
945 : $P_{32318} = (29, 16, 30, 1)$ lies on line ℓ_{295}
946 : $P_{32340} = (19, 17, 30, 1)$ lies on line ℓ_{691}
947 : $P_{32364} = (11, 18, 30, 1)$ lies on line ℓ_{394}
948 : $P_{32390} = (5, 19, 30, 1)$ lies on line ℓ_{1054}
949 : $P_{32418} = (1, 20, 30, 1)$ lies on line ℓ_{1021}
950 : $P_{32464} = (15, 21, 30, 1)$ lies on line ℓ_{361}
951 : $P_{32504} = (23, 22, 30, 1)$ lies on line ℓ_{592}
952 : $P_{32538} = (25, 23, 30, 1)$ lies on line ℓ_{196}
953 : $P_{32565} = (20, 24, 30, 1)$ lies on line ℓ_{790}
954 : $P_{32603} = (26, 25, 30, 1)$ lies on line ℓ_{130}
955 : $P_{32611} = (2, 26, 30, 1)$ lies on line ℓ_{955}
956 : $P_{32653} = (12, 27, 30, 1)$ lies on line ℓ_{559}
957 : $P_{32681} = (8, 28, 30, 1)$ lies on line ℓ_{460}
958 : $P_{32711} = (6, 29, 30, 1)$ lies on line ℓ_{856}
959 : $P_{32767} = (30, 30, 30, 1)$ lies on line ℓ_{97}
960 : $P_{32785} = (16, 31, 30, 1)$ lies on line ℓ_{757}
961 : $P_{32848} = (15, 1, 31, 1)$ lies on line ℓ_{955}
962 : $P_{32878} = (13, 2, 31, 1)$ lies on line ℓ_{691}
963 : $P_{32899} = (2, 3, 31, 1)$ lies on line ℓ_{328}
964 : $P_{32959} = (30, 4, 31, 1)$ lies on line ℓ_{163}
965 : $P_{32978} = (17, 5, 31, 1)$ lies on line ℓ_{856}
966 : $P_{33012} = (19, 6, 31, 1)$ lies on line ℓ_{592}
967 : $P_{33053} = (28, 7, 31, 1)$ lies on line ℓ_{427}
968 : $P_{33083} = (26, 8, 31, 1)$ lies on line ℓ_{262}
969 : $P_{33110} = (21, 9, 31, 1)$ lies on line ℓ_{1021}
970 : $P_{33144} = (23, 10, 31, 1)$ lies on line ℓ_{757}
971 : $P_{33177} = (24, 11, 31, 1)$ lies on line ℓ_{526}
972 : $P_{33189} = (4, 12, 31, 1)$ lies on line ℓ_{229}
973 : $P_{33228} = (11, 13, 31, 1)$ lies on line ℓ_{1054}
974 : $P_{33258} = (9, 14, 31, 1)$ lies on line ℓ_{790}
975 : $P_{33287} = (6, 15, 31, 1)$ lies on line ℓ_{493}
976 : $P_{33338} = (25, 16, 31, 1)$ lies on line ℓ_{460}
977 : $P_{33367} = (22, 17, 31, 1)$ lies on line ℓ_{823}
978 : $P_{33397} = (20, 18, 31, 1)$ lies on line ℓ_{1087}
979 : $P_{33436} = (27, 19, 31, 1)$ lies on line ℓ_{196}
980 : $P_{33448} = (7, 20, 31, 1)$ lies on line ℓ_{559}
981 : $P_{33481} = (8, 21, 31, 1)$ lies on line ℓ_{724}
982 : $P_{33515} = (10, 22, 31, 1)$ lies on line ℓ_{988}
983 : $P_{33542} = (5, 23, 31, 1)$ lies on line ℓ_{295}
984 : $P_{33572} = (3, 24, 31, 1)$ lies on line ℓ_{394}
985 : $P_{33613} = (12, 25, 31, 1)$ lies on line ℓ_{625}

986 : $P_{33647} = (14, 26, 31, 1)$ lies on line ℓ_{889}
987 : $P_{33666} = (1, 27, 31, 1)$ lies on line ℓ_{130}
988 : $P_{33726} = (29, 28, 31, 1)$ lies on line ℓ_{361}
989 : $P_{33747} = (18, 29, 31, 1)$ lies on line ℓ_{658}

990 : $P_{33777} = (16, 30, 31, 1)$ lies on line ℓ_{922}
991 : $P_{33824} = (31, 31, 31, 1)$ lies on line ℓ_{97}

The single points on the surface are:

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 2049 points:
Too many to print.