Rank-73795 over GF(32)

January 15, 2021

The equation

The equation of the surface is :

$$X_0^2 X_3 + X_0 X_3^2 + X_0 X_1 X_2 = 0$$

(0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 1, 0, 0, 1, 0, 0, 0)
The point rank of the equation over GF(32) is -2112846811

General information

Number of lines	1123
Number of points	2113
Number of singular points	33
Number of Eckardt points	0
Number of double points	1056
Number of single points	0
Number of points off lines	0
Number of Hesse planes	0
Number of axes	0
Type of points on lines	33^{1123}
Type of lines on points	35^{33}, 33^{1024}, 2^{1056}

Singular Points

The surface has **33** 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 : $P_{2114} = \mathbf{P}(0,1,1,1) = \mathbf{P}(0,1,1,1)$
3 : $P_{3681} = \mathbf{P}(0,\eta^{30},\eta,1) = \mathbf{P}(0,18,2,1)$
4 : $P_{5025} = \mathbf{P}(0,\eta^{13},\eta^{18},1) = \mathbf{P}(0,28,3,1)$
5 : $P_{5441} = \mathbf{P}(0,\eta^{29},\eta^2,1) = \mathbf{P}(0,9,4,1)$
6 : $P_{6913} = \mathbf{P}(0,\eta^{26},\eta^5,1) = \mathbf{P}(0,23,5,1)$
7 : $P_{7649} = \mathbf{P}(0,\eta^{12},\eta^{19},1) = \mathbf{P}(0,14,6,1)$
8 : $P_{8609} = \mathbf{P}(0,\eta^{20},\eta^{11},1) = \mathbf{P}(0,12,7,1)$
9 : $P_{9953} = \mathbf{P}(0,\eta^{28},\eta^3,1) = \mathbf{P}(0,22,8,1)$
10 : $P_{10401} = \mathbf{P}(0,\eta^2,\eta^{29},1) = \mathbf{P}(0,4,9,1)$
11 : $P_{12097} = \mathbf{P}(0,\eta^{25},\eta^6,1) = \mathbf{P}(0,25,10,1)$
12 : $P_{12833} = \mathbf{P}(0,\eta^4,\eta^{27},1) = \mathbf{P}(0,16,11,1)$
13 : $P_{13569} = \mathbf{P}(0,\eta^{11},\eta^{20},1) = \mathbf{P}(0,7,12,1)$
14 : $P_{14849} = \mathbf{P}(0,\eta^{23},\eta^8,1) = \mathbf{P}(0,15,13,1)$
15 : $P_{15585} = \mathbf{P}(0,\eta^{19},\eta^{12},1) = \mathbf{P}(0,6,14,1)$
16 : $P_{16833} = \mathbf{P}(0,\eta^8,\eta^{23},1) = \mathbf{P}(0,13,15,1)$
17 : $P_{17793} = \mathbf{P}(0,\eta^{27},\eta^4,1) = \mathbf{P}(0,11,16,1)$

$18: P_{19233} = \mathbf{P}(0, \eta^{21}, \eta^{10}, 1) = \mathbf{P}(0, 24, 17, 1)$

$19: P_{19553} = \mathbf{P}(0, \eta, \eta^{30}, 1) = \mathbf{P}(0, 2, 18, 1)$

$20: P_{21441} = \mathbf{P}(0, \eta^{14}, \eta^{17}, 1) = \mathbf{P}(0, 29, 19, 1)$

$21: P_{22497} = \mathbf{P}(0, \eta^{24}, \eta^{7}, 1) = \mathbf{P}(0, 30, 20, 1)$

$22: P_{23393} = \mathbf{P}(0, \eta^{9}, \eta^{22}, 1) = \mathbf{P}(0, 26, 21, 1)$

$23: P_{23841} = \mathbf{P}(0, \eta^{3}, \eta^{28}, 1) = \mathbf{P}(0, 8, 22, 1)$

$24: P_{24769} = \mathbf{P}(0, \eta^{5}, \eta^{26}, 1) = \mathbf{P}(0, 5, 23, 1)$

$25: P_{26177} = \mathbf{P}(0, \eta^{10}, \eta^{21}, 1) = \mathbf{P}(0, 17, 24, 1)$

$26: P_{26977} = \mathbf{P}(0, \eta^{6}, \eta^{25}, 1) = \mathbf{P}(0, 10, 25, 1)$

$27: P_{28353} = \mathbf{P}(0, \eta^{22}, \eta^{9}, 1) = \mathbf{P}(0, 21, 26, 1)$

$28: P_{29697} = \mathbf{P}(0, \eta^{15}, \eta^{16}, 1) = \mathbf{P}(0, 31, 27, 1)$

$29: P_{29825} = \mathbf{P}(0, \eta^{18}, \eta^{13}, 1) = \mathbf{P}(0, 3, 28, 1)$

$30: P_{31361} = \mathbf{P}(0, \eta^{17}, \eta^{14}, 1) = \mathbf{P}(0, 19, 29, 1)$

$31: P_{32417} = \mathbf{P}(0, \eta^{7}, \eta^{24}, 1) = \mathbf{P}(0, 20, 30, 1)$

$32: P_{33665} = \mathbf{P}(0, \eta^{16}, \eta^{15}, 1) = \mathbf{P}(0, 27, 31, 1)$

The 1123 Lines

The lines and their Pluecker coordinates are:

$$\ell_0 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix}_0 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix}_0 = \mathbf{Pl}(1,0,0,0,0,0)_0$$

$$\ell_1 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1024} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1024} = \mathbf{Pl}(0,0,1,0,0,0)_2$$

$$\ell_2 = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082368} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082368} = \mathbf{Pl}(0,0,0,0,0,1)_{34849}$$

$$\ell_3 = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082400} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082400} = \mathbf{Pl}(0,0,0,1,0,0)_{65}$$

$$\ell_4 = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 0 & 0 \end{bmatrix}_{33824} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 0 & 0 \end{bmatrix}_{33824} = \mathbf{Pl}(1,0,0,1,0,0)_{66}$$

$$\ell_5 = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082369} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082369} = \mathbf{Pl}(0,0,0,1,0,1)_{36865}$$

$$\ell_6 = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1082386} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1082386} = \mathbf{Pl}(0,0,0,18,0,1)_{37936}$$

$$\ell_7 = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1082396} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1082396} = \mathbf{Pl}(0,0,0,28,0,1)_{38566}$$

$$\ell_8 = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1082377} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1082377} = \mathbf{Pl}(0,0,0,9,0,1)_{37369}$$

$$\ell_9 = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1082391} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1082391} = \mathbf{Pl}(0,0,0,23,0,1)_{38251}$$

$$\ell_{10} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1082382} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1082382} = \mathbf{Pl}(0,0,0,14,0,1)_{37684}$$

$$\ell_{11} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1082380} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1082380} = \mathbf{Pl}(0,0,0,12,0,1)_{37558}$$

$$\ell_{12} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1082390} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1082390} = \mathbf{Pl}(0,0,0,22,0,1)_{38188}$$

$$\ell_{13} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{2} \end{bmatrix}_{1082372} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1082372} = \mathbf{Pl}(0,0,0,4,0,1)_{37054}$$

$$\ell_{14} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{25} \end{bmatrix}_{1082393} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 25 \end{bmatrix}_{1082393} = \mathbf{Pl}(0,0,0,25,0,1)_{38377}$$

$$\ell_{15} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{4} \end{bmatrix}_{1082384} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1082384} = \mathbf{Pl}(0,0,0,16,0,1)_{37810}$$

$$\ell_{16} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{11} \end{array}\right]_{1082375} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 7 \end{array}\right]_{1082375} = \mathbf{Pl}(0,0,0,7,0,1)_{37243}$$

$$\ell_{17} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{23} \end{array}\right]_{1082383} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 15 \end{array}\right]_{1082383} = \mathbf{Pl}(0,0,0,15,0,1)_{37747}$$

$$\ell_{18} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{19} \end{array}\right]_{1082374} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 6 \end{array}\right]_{1082374} = \mathbf{Pl}(0,0,0,6,0,1)_{37180}$$

$$\ell_{19} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{8} \end{array}\right]_{1082381} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 13 \end{array}\right]_{1082381} = \mathbf{Pl}(0,0,0,13,0,1)_{37621}$$

$$\ell_{20} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{27} \end{array}\right]_{1082379} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 11 \end{array}\right]_{1082379} = \mathbf{Pl}(0,0,0,11,0,1)_{37495}$$

$$\ell_{21} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{21} \end{array}\right]_{1082392} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 24 \end{array}\right]_{1082392} = \mathbf{Pl}(0,0,0,24,0,1)_{38314}$$

$$\ell_{22} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta \end{array}\right]_{1082370} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 2 \end{array}\right]_{1082370} = \mathbf{Pl}(0,0,0,2,0,1)_{36928}$$

$$\ell_{23} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{14} \end{array}\right]_{1082397} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 29 \end{array}\right]_{1082397} = \mathbf{Pl}(0,0,0,29,0,1)_{38629}$$

$$\ell_{24} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{24} \end{array}\right]_{1082398} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 30 \end{array}\right]_{1082398} = \mathbf{Pl}(0,0,0,30,0,1)_{38692}$$

$$\ell_{25} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{9} \end{array}\right]_{1082394} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 26 \end{array}\right]_{1082394} = \mathbf{Pl}(0,0,0,26,0,1)_{38440}$$

$$\ell_{26} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{3} \end{array}\right]_{1082376} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 8 \end{array}\right]_{1082376} = \mathbf{Pl}(0,0,0,8,0,1)_{37306}$$

$$\ell_{27} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{5} \end{array}\right]_{1082373} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 5 \end{array}\right]_{1082373} = \mathbf{Pl}(0,0,0,5,0,1)_{37117}$$

$$\ell_{28} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{10} \end{array}\right]_{1082385} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 17 \end{array}\right]_{1082385} = \mathbf{Pl}(0,0,0,17,0,1)_{37873}$$

$$\ell_{29} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{6} \end{array}\right]_{1082378} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 10 \end{array}\right]_{1082378} = \mathbf{Pl}(0,0,0,10,0,1)_{37432}$$

$$\ell_{30} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{22} \end{array}\right]_{1082389} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 21 \end{array}\right]_{1082389} = \mathbf{Pl}(0,0,0,21,0,1)_{38125}$$

$$\ell_{31} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{15} \end{array}\right]_{1082399} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 31 \end{array}\right]_{1082399} = \mathbf{Pl}(0,0,0,31,0,1)_{38755}$$

$$\ell_{32} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{18} \end{array}\right]_{1082371} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 3 \end{array}\right]_{1082371} = \mathbf{Pl}(0,0,0,3,0,1)_{36991}$$

$$\ell_{33} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{17} \end{array}\right]_{1082387} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 19 \end{array}\right]_{1082387} = \mathbf{Pl}(0,0,0,19,0,1)_{37999}$$

$$\ell_{34} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{7} \end{array}\right]_{1082388} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 20 \end{array}\right]_{1082388} = \mathbf{Pl}(0,0,0,20,0,1)_{38062}$$

$$\ell_{35} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \eta^{16} \end{array}\right]_{1082395} = \left[\begin{array}{cccc} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 27 \end{array}\right]_{1082395} = \mathbf{Pl}(0,0,0,27,0,1)_{38503}$$

$$\ell_{36} = \left[\begin{array}{cccc} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1083424} = \left[\begin{array}{cccc} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1083424} = \mathbf{Pl}(0,1,0,0,0,0)_{1}$$

$$\ell_{37} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{34848} = \begin{bmatrix} 1 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{34848} = \mathbf{Pl}(0,1,1,0,0,0)_{34}$$

$$\ell_{38} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082401} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082401} = \mathbf{Pl}(0,1,0,0,0,1)_{34881}$$

$$\ell_{39} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082962} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082962} = \mathbf{Pl}(0,18,0,0,0,1)_{34898}$$

$$\ell_{40} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083292} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083292} = \mathbf{Pl}(0,28,0,0,0,1)_{34908}$$

$$\ell_{41} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082665} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082665} = \mathbf{Pl}(0,9,0,0,0,1)_{34889}$$

$$\ell_{42} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083127} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083127} = \mathbf{Pl}(0,23,0,0,0,1)_{34903}$$

$$\ell_{43} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082830} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082830} = \mathbf{Pl}(0,14,0,0,0,1)_{34894}$$

$$\ell_{44} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082764} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082764} = \mathbf{Pl}(0,12,0,0,0,1)_{34892}$$

$$\ell_{45} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083094} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083094} = \mathbf{Pl}(0,22,0,0,0,1)_{34902}$$

$$\ell_{46} = \begin{bmatrix} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082500} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082500} = \mathbf{Pl}(0,4,0,0,0,1)_{34884}$$

$$\ell_{47} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083193} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083193} = \mathbf{Pl}(0,25,0,0,0,1)_{34905}$$

$$\ell_{48} = \begin{bmatrix} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082896} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082896} = \mathbf{Pl}(0,16,0,0,0,1)_{34896}$$

$$\ell_{49} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082599} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082599} = \mathbf{Pl}(0,7,0,0,0,1)_{34887}$$

$$\ell_{50} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082863} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082863} = \mathbf{Pl}(0,15,0,0,0,1)_{34895}$$

$$\ell_{51} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082566} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082566} = \mathbf{Pl}(0,6,0,0,0,1)_{34886}$$

$$\ell_{52} = \begin{bmatrix} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082797} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082797} = \mathbf{Pl}(0,13,0,0,0,1)_{34893}$$

$$\ell_{53} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082731} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082731} = \mathbf{Pl}(0,11,0,0,0,1)_{34891}$$

$$\ell_{54} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083160} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083160} = \mathbf{Pl}(0,24,0,0,0,1)_{34904}$$

$$\ell_{55} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082434} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082434} = \mathbf{Pl}(0,2,0,0,0,1)_{34882}$$

$$\ell_{56} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083325} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083325} = \mathbf{Pl}(0,29,0,0,0,1)_{34909}$$

$$\ell_{57} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083358} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083358} = \mathbf{Pl}(0,30,0,0,0,1)_{34910}$$

$$\ell_{58} = \begin{bmatrix} 0 & 1 & 0 & \eta^9 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083226} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083226} = \mathbf{Pl}(0, 26, 0, 0, 0, 1)_{34906}$$

$$\ell_{59} = \begin{bmatrix} 0 & 1 & 0 & \eta^3 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082632} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082632} = \mathbf{Pl}(0, 8, 0, 0, 0, 1)_{34888}$$

$$\ell_{60} = \begin{bmatrix} 0 & 1 & 0 & \eta^5 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082533} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082533} = \mathbf{Pl}(0, 5, 0, 0, 0, 1)_{34885}$$

$$\ell_{61} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082929} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082929} = \mathbf{Pl}(0, 17, 0, 0, 0, 1)_{34897}$$

$$\ell_{62} = \begin{bmatrix} 0 & 1 & 0 & \eta^6 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082698} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082698} = \mathbf{Pl}(0, 10, 0, 0, 0, 1)_{34890}$$

$$\ell_{63} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083061} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083061} = \mathbf{Pl}(0, 21, 0, 0, 0, 1)_{34901}$$

$$\ell_{64} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083391} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083391} = \mathbf{Pl}(0, 31, 0, 0, 0, 1)_{34911}$$

$$\ell_{65} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082467} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082467} = \mathbf{Pl}(0, 3, 0, 0, 0, 1)_{34883}$$

$$\ell_{66} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082995} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1082995} = \mathbf{Pl}(0, 19, 0, 0, 0, 1)_{34899}$$

$$\ell_{67} = \begin{bmatrix} 0 & 1 & 0 & \eta^7 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083028} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083028} = \mathbf{Pl}(0, 20, 0, 0, 0, 1)_{34900}$$

$$\ell_{68} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083259} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 0 \end{bmatrix}_{1083259} = \mathbf{Pl}(0, 27, 0, 0, 0, 1)_{34907}$$

$$\ell_{69} = \begin{bmatrix} 1 & 0 & 1 & 1 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{34914} = \begin{bmatrix} 1 & 0 & 1 & 1 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{34914} = \mathbf{Pl}(1, 0, 1, 1, 1, 1)_{70563}$$

$$\ell_{70} = \begin{bmatrix} 1 & 0 & \eta & 1 \\ 0 & 1 & \eta^2 & \eta \end{bmatrix}_{36006} = \begin{bmatrix} 1 & 0 & 2 & 1 \\ 0 & 1 & 4 & 2 \end{bmatrix}_{36006} = \mathbf{Pl}(18, 0, 2, 18, 1, 1)_{70643}$$

$$\ell_{71} = \begin{bmatrix} 1 & 0 & \eta^{18} & 1 \\ 0 & 1 & \eta^5 & \eta^{18} \end{bmatrix}_{37096} = \begin{bmatrix} 1 & 0 & 3 & 1 \\ 0 & 1 & 5 & 3 \end{bmatrix}_{37096} = \mathbf{Pl}(28, 0, 3, 28, 1, 1)_{70716}$$

$$\ell_{72} = \begin{bmatrix} 1 & 0 & \eta^2 & 1 \\ 0 & 1 & \eta^4 & \eta^2 \end{bmatrix}_{38196} = \begin{bmatrix} 1 & 0 & 4 & 1 \\ 0 & 1 & 16 & 4 \end{bmatrix}_{38196} = \mathbf{Pl}(9, 0, 4, 9, 1, 1)_{70760}$$

$$\ell_{73} = \begin{bmatrix} 1 & 0 & \eta^5 & 1 \\ 0 & 1 & \eta^{10} & \eta^5 \end{bmatrix}_{39286} = \begin{bmatrix} 1 & 0 & 5 & 1 \\ 0 & 1 & 17 & 5 \end{bmatrix}_{39286} = \mathbf{Pl}(23, 0, 5, 23, 1, 1)_{70837}$$

$$\ell_{74} = \begin{bmatrix} 1 & 0 & \eta^{19} & 1 \\ 0 & 1 & \eta^7 & \eta^{19} \end{bmatrix}_{40378} = \begin{bmatrix} 1 & 0 & 6 & 1 \\ 0 & 1 & 20 & 6 \end{bmatrix}_{40378} = \mathbf{Pl}(14, 0, 6, 14, 1, 1)_{70891}$$

$$\ell_{75} = \begin{bmatrix} 1 & 0 & \eta^{11} & 1 \\ 0 & 1 & \eta^{22} & \eta^{11} \end{bmatrix}_{41468} = \begin{bmatrix} 1 & 0 & 7 & 1 \\ 0 & 1 & 21 & 7 \end{bmatrix}_{41468} = \mathbf{Pl}(12, 0, 7, 12, 1, 1)_{70952}$$

$$\ell_{76} = \begin{bmatrix} 1 & 0 & \eta^3 & 1 \\ 0 & 1 & \eta^6 & \eta^3 \end{bmatrix}_{42546} = \begin{bmatrix} 1 & 0 & 8 & 1 \\ 0 & 1 & 10 & 8 \end{bmatrix}_{42546} = \mathbf{Pl}(22, 0, 8, 22, 1, 1)_{71025}$$

$$\ell_{77} = \begin{bmatrix} 1 & 0 & \eta^{29} & 1 \\ 0 & 1 & \eta^{27} & \eta^{29} \end{bmatrix}_{43636} = \begin{bmatrix} 1 & 0 & 9 & 1 \\ 0 & 1 & 11 & 9 \end{bmatrix}_{43636} = \mathbf{Pl}(4, 0, 9, 4, 1, 1)_{71070}$$

$$\ell_{78} = \begin{bmatrix} 1 & 0 & \eta^6 & 1 \\ 0 & 1 & \eta^{12} & \eta^6 \end{bmatrix}_{44728} = \begin{bmatrix} 1 & 0 & 10 & 1 \\ 0 & 1 & 14 & 10 \end{bmatrix}_{44728} = \mathbf{Pl}(25, 0, 10, 25, 1, 1)_{71154}$$

$$\ell_{79} = \begin{bmatrix} 1 & 0 & \eta^{27} & 1 \\ 0 & 1 & \eta^{23} & \eta^{27} \end{bmatrix}_{45818} = \begin{bmatrix} 1 & 0 & 11 & 1 \\ 0 & 1 & 15 & 11 \end{bmatrix}_{45818} = \mathbf{Pl}(16,0,11,16,1,1)_{71208}$$

$$\ell_{80} = \begin{bmatrix} 1 & 0 & \eta^{20} & 1 \\ 0 & 1 & \eta^{9} & \eta^{20} \end{bmatrix}_{46918} = \begin{bmatrix} 1 & 0 & 12 & 1 \\ 0 & 1 & 26 & 12 \end{bmatrix}_{46918} = \mathbf{Pl}(7,0,12,7,1,1)_{71262}$$

$$\ell_{81} = \begin{bmatrix} 1 & 0 & \eta^{8} & 1 \\ 0 & 1 & \eta^{16} & \eta^{8} \end{bmatrix}_{48008} = \begin{bmatrix} 1 & 0 & 13 & 1 \\ 0 & 1 & 27 & 13 \end{bmatrix}_{48008} = \mathbf{Pl}(15,0,13,15,1,1)_{71333}$$

$$\ell_{82} = \begin{bmatrix} 1 & 0 & \eta^{12} & 1 \\ 0 & 1 & \eta^{24} & \eta^{12} \end{bmatrix}_{49100} = \begin{bmatrix} 1 & 0 & 14 & 1 \\ 0 & 1 & 30 & 14 \end{bmatrix}_{49100} = \mathbf{Pl}(6,0,14,6,1,1)_{71387}$$

$$\ell_{83} = \begin{bmatrix} 1 & 0 & \eta^{23} & 1 \\ 0 & 1 & \eta^{15} & \eta^{23} \end{bmatrix}_{50190} = \begin{bmatrix} 1 & 0 & 15 & 1 \\ 0 & 1 & 31 & 15 \end{bmatrix}_{50190} = \mathbf{Pl}(13,0,15,13,1,1)_{71457}$$

$$\ell_{84} = \begin{bmatrix} 1 & 0 & \eta^{4} & 1 \\ 0 & 1 & \eta^{8} & \eta^{4} \end{bmatrix}_{51261} = \begin{bmatrix} 1 & 0 & 16 & 1 \\ 0 & 1 & 13 & 16 \end{bmatrix}_{51261} = \mathbf{Pl}(11,0,16,11,1,1)_{71518}$$

$$\ell_{85} = \begin{bmatrix} 1 & 0 & \eta^{10} & 1 \\ 0 & 1 & \eta^{20} & \eta^{10} \end{bmatrix}_{52349} = \begin{bmatrix} 1 & 0 & 17 & 1 \\ 0 & 1 & 12 & 17 \end{bmatrix}_{52349} = \mathbf{Pl}(24,0,17,24,1,1)_{71594}$$

$$\ell_{86} = \begin{bmatrix} 1 & 0 & \eta^{30} & 1 \\ 0 & 1 & \eta^{29} & \eta^{30} \end{bmatrix}_{53435} = \begin{bmatrix} 1 & 0 & 18 & 1 \\ 0 & 1 & 9 & 18 \end{bmatrix}_{53435} = \mathbf{Pl}(2,0,18,2,1,1)_{71635}$$

$$\ell_{87} = \begin{bmatrix} 1 & 0 & \eta^{17} & 1 \\ 0 & 1 & \eta^{3} & \eta^{17} \end{bmatrix}_{54523} = \begin{bmatrix} 1 & 0 & 19 & 1 \\ 0 & 1 & 8 & 19 \end{bmatrix}_{54523} = \mathbf{Pl}(29,0,19,29,1,1)_{71725}$$

$$\ell_{88} = \begin{bmatrix} 1 & 0 & \eta^{7} & 1 \\ 0 & 1 & \eta^{14} & \eta^{7} \end{bmatrix}_{55633} = \begin{bmatrix} 1 & 0 & 20 & 1 \\ 0 & 1 & 29 & 20 \end{bmatrix}_{55633} = \mathbf{Pl}(30,0,20,30,1,1)_{71789}$$

$$\ell_{89} = \begin{bmatrix} 1 & 0 & \eta^{22} & 1 \\ 0 & 1 & \eta^{13} & \eta^{22} \end{bmatrix}_{56721} = \begin{bmatrix} 1 & 0 & 21 & 1 \\ 0 & 1 & 28 & 21 \end{bmatrix}_{56721} = \mathbf{Pl}(26,0,21,26,1,1)_{71848}$$

$$\ell_{90} = \begin{bmatrix} 1 & 0 & \eta^{28} & 1 \\ 0 & 1 & \eta^{25} & \eta^{28} \end{bmatrix}_{57807} = \begin{bmatrix} 1 & 0 & 22 & 1 \\ 0 & 1 & 25 & 22 \end{bmatrix}_{57807} = \mathbf{Pl}(8,0,22,8,1,1)_{71893}$$

$$\ell_{91} = \begin{bmatrix} 1 & 0 & \eta^{26} & 1 \\ 0 & 1 & \eta^{21} & \eta^{26} \end{bmatrix}_{58895} = \begin{bmatrix} 1 & 0 & 23 & 1 \\ 0 & 1 & 24 & 23 \end{bmatrix}_{58895} = \mathbf{Pl}(5,0,23,5,1,1)_{71953}$$

$$\ell_{92} = \begin{bmatrix} 1 & 0 & \eta^{21} & 1 \\ 0 & 1 & \eta^{11} & \eta^{21} \end{bmatrix}_{59967} = \begin{bmatrix} 1 & 0 & 24 & 1 \\ 0 & 1 & 7 & 24 \end{bmatrix}_{59967} = \mathbf{Pl}(17,0,24,17,1,1)_{72028}$$

$$\ell_{93} = \begin{bmatrix} 1 & 0 & \eta^{25} & 1 \\ 0 & 1 & \eta^{19} & \eta^{25} \end{bmatrix}_{61055} = \begin{bmatrix} 1 & 0 & 25 & 1 \\ 0 & 1 & 6 & 25 \end{bmatrix}_{61055} = \mathbf{Pl}(10,0,25,10,1,1)_{72084}$$

$$\ell_{94} = \begin{bmatrix} 1 & 0 & \eta^{9} & 1 \\ 0 & 1 & \eta^{18} & \eta^{9} \end{bmatrix}_{62141} = \begin{bmatrix} 1 & 0 & 26 & 1 \\ 0 & 1 & 3 & 26 \end{bmatrix}_{62141} = \mathbf{Pl}(21,0,26,21,1,1)_{72158}$$

$$\ell_{95} = \begin{bmatrix} 1 & 0 & \eta^{16} & 1 \\ 0 & 1 & \eta & \eta^{16} \end{bmatrix}_{63229} = \begin{bmatrix} 1 & 0 & 27 & 1 \\ 0 & 1 & 2 & 27 \end{bmatrix}_{63229} = \mathbf{Pl}(31,0,27,31,1,1)_{72231}$$

$$\ell_{96} = \begin{bmatrix} 1 & 0 & \eta^{13} & 1 \\ 0 & 1 & \eta^{26} & \eta^{13} \end{bmatrix}_{64339} = \begin{bmatrix} 1 & 0 & 28 & 1 \\ 0 & 1 & 23 & 28 \end{bmatrix}_{64339} = \mathbf{Pl}(3,0,28,3,1,1)_{72266}$$

$$\ell_{97} = \begin{bmatrix} 1 & 0 & \eta^{14} & 1 \\ 0 & 1 & \eta^{28} & \eta^{14} \end{bmatrix}_{65427} = \begin{bmatrix} 1 & 0 & 29 & 1 \\ 0 & 1 & 22 & 29 \end{bmatrix}_{65427} = \mathbf{Pl}(19,0,29,19,1,1)_{72345}$$

$$\ell_{98} = \begin{bmatrix} 1 & 0 & \eta^{24} & 1 \\ 0 & 1 & \eta^{17} & \eta^{24} \end{bmatrix}_{66513} = \begin{bmatrix} 1 & 0 & 30 & 1 \\ 0 & 1 & 19 & 30 \end{bmatrix}_{66513} = \mathbf{Pl}(20,0,30,20,1,1)_{72409}$$

$$\ell_{99} = \begin{bmatrix} 1 & 0 & \eta^{15} & 1 \\ 0 & 1 & \eta^{30} & \eta^{15} \end{bmatrix}_{67601} = \begin{bmatrix} 1 & 0 & 31 & 1 \\ 0 & 1 & 18 & 31 \end{bmatrix}_{67601} = \mathbf{Pl}(27,0,31,27,1,1)_{72479}$$

$$\ell_{100} = \begin{bmatrix} 1 & 0 & 1 & 0 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{1090} = \begin{bmatrix} 1 & 0 & 1 & 0 \\ 0 & 1 & 1 & 1 \end{bmatrix}_{1090} = \mathbf{Pl}(1,1,1,0,1,1)_{68640}$$

$$\ell_{101} = \begin{bmatrix} 1 & 0 & \eta^{30} & 0 \\ 0 & 1 & \eta^{29} & \eta^{30} \end{bmatrix}_{19611} = \begin{bmatrix} 1 & 0 & 18 & 0 \\ 0 & 1 & 9 & 18 \end{bmatrix}_{19611} = \mathbf{Pl}(2,18,18,0,1,1)_{69168}$$

$$\ell_{102} = \begin{bmatrix} 1 & 0 & \eta^{13} & 0 \\ 0 & 1 & \eta^{26} & \eta^{13} \end{bmatrix}_{30515} = \begin{bmatrix} 1 & 0 & 28 & 0 \\ 0 & 1 & 23 & 28 \end{bmatrix}_{30515} = \mathbf{Pl}(3,28,28,0,1,1)_{69479}$$

$$\ell_{103} = \begin{bmatrix} 1 & 0 & \eta^{29} & 0 \\ 0 & 1 & \eta^{27} & \eta^{29} \end{bmatrix}_{9812} = \begin{bmatrix} 1 & 0 & 9 & 0 \\ 0 & 1 & 11 & 9 \end{bmatrix}_{9812} = \mathbf{Pl}(4,9,9,0,1,1)_{68891}$$

$$\ell_{104} = \begin{bmatrix} 1 & 0 & \eta^{26} & 0 \\ 0 & 1 & \eta^{21} & \eta^{26} \end{bmatrix}_{25071} = \begin{bmatrix} 1 & 0 & 23 & 0 \\ 0 & 1 & 24 & 23 \end{bmatrix}_{25071} = \mathbf{Pl}(5,23,23,0,1,1)_{69326}$$

$$\ell_{105} = \begin{bmatrix} 1 & 0 & \eta^{12} & 0 \\ 0 & 1 & \eta^{24} & \eta^{12} \end{bmatrix}_{15276} = \begin{bmatrix} 1 & 0 & 14 & 0 \\ 0 & 1 & 30 & 14 \end{bmatrix}_{15276} = \mathbf{Pl}(6,14,14,0,1,1)_{69048}$$

$$\ell_{106} = \begin{bmatrix} 1 & 0 & \eta^{20} & 0 \\ 0 & 1 & \eta^{9} & \eta^{20} \end{bmatrix}_{13094} = \begin{bmatrix} 1 & 0 & 12 & 0 \\ 0 & 1 & 26 & 12 \end{bmatrix}_{13094} = \mathbf{Pl}(7,12,12,0,1,1)_{68987}$$

$$\ell_{107} = \begin{bmatrix} 1 & 0 & \eta^{28} & 0 \\ 0 & 1 & \eta^{25} & \eta^{28} \end{bmatrix}_{23983} = \begin{bmatrix} 1 & 0 & 22 & 0 \\ 0 & 1 & 25 & 22 \end{bmatrix}_{23983} = \mathbf{Pl}(8,22,22,0,1,1)_{69298}$$

$$\ell_{108} = \begin{bmatrix} 1 & 0 & \eta^{2} & 0 \\ 0 & 1 & \eta^{4} & \eta^{2} \end{bmatrix}_{4372} = \begin{bmatrix} 1 & 0 & 4 & 0 \\ 0 & 1 & 16 & 4 \end{bmatrix}_{4372} = \mathbf{Pl}(9,4,4,0,1,1)_{68741}$$

$$\ell_{109} = \begin{bmatrix} 1 & 0 & \eta^{25} & 0 \\ 0 & 1 & \eta^{19} & \eta^{25} \end{bmatrix}_{27231} = \begin{bmatrix} 1 & 0 & 25 & 0 \\ 0 & 1 & 6 & 25 \end{bmatrix}_{27231} = \mathbf{Pl}(10,25,25,0,1,1)_{69393}$$

$$\ell_{110} = \begin{bmatrix} 1 & 0 & \eta^{4} & 0 \\ 0 & 1 & \eta^{8} & \eta^{4} \end{bmatrix}_{17437} = \begin{bmatrix} 1 & 0 & 16 & 0 \\ 0 & 1 & 13 & 16 \end{bmatrix}_{17437} = \mathbf{Pl}(11,16,16,0,1,1)_{69115}$$

$$\ell_{111} = \begin{bmatrix} 1 & 0 & \eta^{11} & 0 \\ 0 & 1 & \eta^{22} & \eta^{11} \end{bmatrix}_{7644} = \begin{bmatrix} 1 & 0 & 7 & 0 \\ 0 & 1 & 21 & 7 \end{bmatrix}_{7644} = \mathbf{Pl}(12,7,7,0,1,1)_{68837}$$

$$\ell_{112} = \begin{bmatrix} 1 & 0 & \eta^{23} & 0 \\ 0 & 1 & \eta^{15} & \eta^{23} \end{bmatrix}_{16366} = \begin{bmatrix} 1 & 0 & 15 & 0 \\ 0 & 1 & 31 & 15 \end{bmatrix}_{16366} = \mathbf{Pl}(13,15,15,0,1,1)_{69086}$$

$$\ell_{113} = \begin{bmatrix} 1 & 0 & \eta^{19} & 0 \\ 0 & 1 & \eta^{7} & \eta^{19} \end{bmatrix}_{6554} = \begin{bmatrix} 1 & 0 & 6 & 0 \\ 0 & 1 & 20 & 6 \end{bmatrix}_{6554} = \mathbf{Pl}(14,6,6,0,1,1)_{68808}$$

$$\ell_{114} = \begin{bmatrix} 1 & 0 & \eta^{8} & 0 \\ 0 & 1 & \eta^{16} & \eta^{8} \end{bmatrix}_{14184} = \begin{bmatrix} 1 & 0 & 13 & 0 \\ 0 & 1 & 27 & 13 \end{bmatrix}_{14184} = \mathbf{Pl}(15,13,13,0,1,1)_{69026}$$

$$\ell_{115} = \begin{bmatrix} 1 & 0 & \eta^{27} & 0 \\ 0 & 1 & \eta^{23} & \eta^{27} \end{bmatrix}_{11994} = \begin{bmatrix} 1 & 0 & 11 & 0 \\ 0 & 1 & 15 & 11 \end{bmatrix}_{11994} = \mathbf{Pl}(16,11,11,0,1,1)_{68965}$$

$$\ell_{116} = \begin{bmatrix} 1 & 0 & \eta^{21} & 0 \\ 0 & 1 & \eta^{11} & \eta^{21} \end{bmatrix}_{26143} = \begin{bmatrix} 1 & 0 & 24 & 0 \\ 0 & 1 & 7 & 24 \end{bmatrix}_{26143} = \mathbf{Pl}(17,24,24,0,1,1)_{69369}$$

$$\ell_{117} = \begin{bmatrix} 1 & 0 & \eta & 0 \\ 0 & 1 & \eta^{2} & \eta \end{bmatrix}_{2182} = \begin{bmatrix} 1 & 0 & 2 & 0 \\ 0 & 1 & 4 & 2 \end{bmatrix}_{2182} = \mathbf{Pl}(18,2,2,0,1,1)_{68688}$$

$$\ell_{118} = \begin{bmatrix} 1 & 0 & \eta^{14} & 0 \\ 0 & 1 & \eta^{28} & \eta^{14} \end{bmatrix}_{31603} = \begin{bmatrix} 1 & 0 & 29 & 0 \\ 0 & 1 & 22 & 29 \end{bmatrix}_{31603} = \mathbf{Pl}(19,29,29,0,1,1)_{69526}$$

$$\ell_{119} = \begin{bmatrix} 1 & 0 & \eta^{24} & 0 \\ 0 & 1 & \eta^{17} & \eta^{24} \end{bmatrix}_{32689} = \begin{bmatrix} 1 & 0 & 30 & 0 \\ 0 & 1 & 19 & 30 \end{bmatrix}_{32689} = \mathbf{Pl}(20,30,30,0,1,1)_{69558}$$

$$\ell_{120} = \begin{bmatrix} 1 & 0 & \eta^{9} & 0 \\ 0 & 1 & \eta^{18} & \eta^{9} \end{bmatrix}_{28317} = \begin{bmatrix} 1 & 0 & 26 & 0 \\ 0 & 1 & 3 & 26 \end{bmatrix}_{28317} = \mathbf{Pl}(21,26,26,0,1,1)_{69435}$$

$$\ell_{121} = \begin{bmatrix} 1 & 0 & \eta^3 & 0 \\ 0 & 1 & \eta^6 & \eta^3 \end{bmatrix}_{8722} = \begin{bmatrix} 1 & 0 & 8 & 0 \\ 0 & 1 & 10 & 8 \end{bmatrix}_{8722} = \mathbf{Pl}(22,8,8,0,1,1)_{68878}$$

$$\ell_{122} = \begin{bmatrix} 1 & 0 & \eta^5 & 0 \\ 0 & 1 & \eta^{10} & \eta^5 \end{bmatrix}_{5462} = \begin{bmatrix} 1 & 0 & 5 & 0 \\ 0 & 1 & 17 & 5 \end{bmatrix}_{5462} = \mathbf{Pl}(23,5,5,0,1,1)_{68786}$$

$$\ell_{123} = \begin{bmatrix} 1 & 0 & \eta^{10} & 0 \\ 0 & 1 & \eta^{20} & \eta^{10} \end{bmatrix}_{18525} = \begin{bmatrix} 1 & 0 & 17 & 0 \\ 0 & 1 & 12 & 17 \end{bmatrix}_{18525} = \mathbf{Pl}(24,17,17,0,1,1)_{69159}$$

$$\ell_{124} = \begin{bmatrix} 1 & 0 & \eta^6 & 0 \\ 0 & 1 & \eta^{12} & \eta^6 \end{bmatrix}_{10904} = \begin{bmatrix} 1 & 0 & 10 & 0 \\ 0 & 1 & 14 & 10 \end{bmatrix}_{10904} = \mathbf{Pl}(25,10,10,0,1,1)_{68943}$$

$$\ell_{125} = \begin{bmatrix} 1 & 0 & \eta^{22} & 0 \\ 0 & 1 & \eta^{13} & \eta^{22} \end{bmatrix}_{22897} = \begin{bmatrix} 1 & 0 & 21 & 0 \\ 0 & 1 & 28 & 21 \end{bmatrix}_{22897} = \mathbf{Pl}(26,21,21,0,1,1)_{69285}$$

$$\ell_{126} = \begin{bmatrix} 1 & 0 & \eta^{15} & 0 \\ 0 & 1 & \eta^{30} & \eta^{15} \end{bmatrix}_{33777} = \begin{bmatrix} 1 & 0 & 31 & 0 \\ 0 & 1 & 18 & 31 \end{bmatrix}_{33777} = \mathbf{Pl}(27,31,31,0,1,1)_{69596}$$

$$\ell_{127} = \begin{bmatrix} 1 & 0 & \eta^{18} & 0 \\ 0 & 1 & \eta^5 & \eta^{18} \end{bmatrix}_{3272} = \begin{bmatrix} 1 & 0 & 3 & 0 \\ 0 & 1 & 5 & 3 \end{bmatrix}_{3272} = \mathbf{Pl}(28,3,3,0,1,1)_{68729}$$

$$\ell_{128} = \begin{bmatrix} 1 & 0 & \eta^{17} & 0 \\ 0 & 1 & \eta^3 & \eta^{17} \end{bmatrix}_{20699} = \begin{bmatrix} 1 & 0 & 19 & 0 \\ 0 & 1 & 8 & 19 \end{bmatrix}_{20699} = \mathbf{Pl}(29,19,19,0,1,1)_{69226}$$

$$\ell_{129} = \begin{bmatrix} 1 & 0 & \eta^7 & 0 \\ 0 & 1 & \eta^{14} & \eta^7 \end{bmatrix}_{21809} = \begin{bmatrix} 1 & 0 & 20 & 0 \\ 0 & 1 & 29 & 20 \end{bmatrix}_{21809} = \mathbf{Pl}(30,20,20,0,1,1)_{69258}$$

$$\ell_{130} = \begin{bmatrix} 1 & 0 & \eta^{16} & 0 \\ 0 & 1 & \eta & \eta^{16} \end{bmatrix}_{29405} = \begin{bmatrix} 1 & 0 & 27 & 0 \\ 0 & 1 & 2 & 27 \end{bmatrix}_{29405} = \mathbf{Pl}(31,27,27,0,1,1)_{69476}$$

$$\ell_{131} = \begin{bmatrix} 0 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082433} = \begin{bmatrix} 0 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082433} = \mathbf{Pl}(0,1,0,1,0,0)_{97}$$

$$\ell_{132} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082402} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082402} = \mathbf{Pl}(0,1,0,1,0,1)_{36897}$$

$$\ell_{133} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1082980} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1082980} = \mathbf{Pl}(0,18,0,18,0,1)_{37985}$$

$$\ell_{134} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1083320} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1083320} = \mathbf{Pl}(0,28,0,28,0,1)_{38625}$$

$$\ell_{135} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1082674} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1082674} = \mathbf{Pl}(0,9,0,9,0,1)_{37409}$$

$$\ell_{136} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1083150} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1083150} = \mathbf{Pl}(0,23,0,23,0,1)_{38305}$$

$$\ell_{137} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1082844} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1082844} = \mathbf{Pl}(0,14,0,14,0,1)_{37729}$$

$$\ell_{138} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1082776} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1082776} = \mathbf{Pl}(0,12,0,12,0,1)_{37601}$$

$$\ell_{139} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1083116} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1083116} = \mathbf{Pl}(0,22,0,22,0,1)_{38241}$$

$$\ell_{140} = \begin{bmatrix} 0 & 1 & 0 & \eta^2 \\ 0 & 0 & 1 & \eta^2 \end{bmatrix}_{1082504} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1082504} = \mathbf{Pl}(0,4,0,4,0,1)_{37089}$$

$$\ell_{141} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{25} \end{bmatrix}_{1083218} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 25 \end{bmatrix}_{1083218} = \mathbf{Pl}(0,25,0,25,0,1)_{38433}$$

$$\ell_{142} = \begin{bmatrix} 0 & 1 & 0 & \eta^4 \\ 0 & 0 & 1 & \eta^4 \end{bmatrix}_{1082912} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1082912} = \mathbf{Pl}(0,16,0,16,0,1)_{37857}$$

$$\ell_{143} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1082606} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1082606} = \mathbf{Pl}(0,7,0,7,0,1)_{37281}$$

$$\ell_{144} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1082878} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1082878} = \mathbf{Pl}(0,15,0,15,0,1)_{37793}$$

$$\ell_{145} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{19} \end{bmatrix}_{1082572} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{1082572} = \mathbf{Pl}(0,6,0,6,0,1)_{37217}$$

$$\ell_{146} = \begin{bmatrix} 0 & 1 & 0 & \eta^8 \\ 0 & 0 & 1 & \eta^8 \end{bmatrix}_{1082810} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1082810} = \mathbf{Pl}(0,13,0,13,0,1)_{37665}$$

$$\ell_{147} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1082742} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1082742} = \mathbf{Pl}(0,11,0,11,0,1)_{37537}$$

$$\ell_{148} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1083184} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1083184} = \mathbf{Pl}(0,24,0,24,0,1)_{38369}$$

$$\ell_{149} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1082436} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1082436} = \mathbf{Pl}(0,2,0,2,0,1)_{36961}$$

$$\ell_{150} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{14} \end{bmatrix}_{1083354} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 29 \end{bmatrix}_{1083354} = \mathbf{Pl}(0,29,0,29,0,1)_{38689}$$

$$\ell_{151} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1083388} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1083388} = \mathbf{Pl}(0,30,0,30,0,1)_{38753}$$

$$\ell_{152} = \begin{bmatrix} 0 & 1 & 0 & \eta^9 \\ 0 & 0 & 1 & \eta^9 \end{bmatrix}_{1083252} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 26 \end{bmatrix}_{1083252} = \mathbf{Pl}(0,26,0,26,0,1)_{38497}$$

$$\ell_{153} = \begin{bmatrix} 0 & 1 & 0 & \eta^3 \\ 0 & 0 & 1 & \eta^3 \end{bmatrix}_{1082640} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1082640} = \mathbf{Pl}(0,8,0,8,0,1)_{37345}$$

$$\ell_{154} = \begin{bmatrix} 0 & 1 & 0 & \eta^5 \\ 0 & 0 & 1 & \eta^5 \end{bmatrix}_{1082538} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1082538} = \mathbf{Pl}(0,5,0,5,0,1)_{37153}$$

$$\ell_{155} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1082946} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1082946} = \mathbf{Pl}(0,17,0,17,0,1)_{37921}$$

$$\ell_{156} = \begin{bmatrix} 0 & 1 & 0 & \eta^6 \\ 0 & 0 & 1 & \eta^6 \end{bmatrix}_{1082708} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1082708} = \mathbf{Pl}(0,10,0,10,0,1)_{37473}$$

$$\ell_{157} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1083082} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1083082} = \mathbf{Pl}(0,21,0,21,0,1)_{38177}$$

$$\ell_{158} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1083422} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1083422} = \mathbf{Pl}(0,31,0,31,0,1)_{38817}$$

$$\ell_{159} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1082470} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1082470} = \mathbf{Pl}(0,3,0,3,0,1)_{37025}$$

$$\ell_{160} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1083014} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1083014} = \mathbf{Pl}(0,19,0,19,0,1)_{38049}$$

$$\ell_{161} = \begin{bmatrix} 0 & 1 & 0 & \eta^7 \\ 0 & 0 & 1 & \eta^7 \end{bmatrix}_{1083048} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 20 \end{bmatrix}_{1083048} = \mathbf{Pl}(0,20,0,20,0,1)_{38113}$$

$$\ell_{162} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1083286} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1083286} = \mathbf{Pl}(0,27,0,27,0,1)_{38561}$$

$$\ell_{163} = \left[\begin{array}{cccc} 0 & 1 & \eta^{30} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082994} = \left[\begin{array}{cccc} 0 & 1 & 18 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082994} = \mathbf{Pl}(0,18,0,1,0,0)_{114}$$

$$\ell_{164} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta \end{array}\right]_{1082403} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 2 \end{array}\right]_{1082403} = \mathbf{Pl}(0,1,0,2,0,1)_{36960}$$

$$\ell_{165} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082963} = \left[\begin{array}{cccc} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082963} = \mathbf{Pl}(0,18,0,1,0,1)_{36914}$$

$$\ell_{166} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{14} \end{array}\right]_{1083321} = \left[\begin{array}{cccc} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 29 \end{array}\right]_{1083321} = \mathbf{Pl}(0,28,0,29,0,1)_{38688}$$

$$\ell_{167} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{30} \end{array}\right]_{1082683} = \left[\begin{array}{cccc} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 18 \end{array}\right]_{1082683} = \mathbf{Pl}(0,9,0,18,0,1)_{37976}$$

$$\ell_{168} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{27} \end{array}\right]_{1083138} = \left[\begin{array}{cccc} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 11 \end{array}\right]_{1083138} = \mathbf{Pl}(0,23,0,11,0,1)_{37549}$$

$$\ell_{169} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{13} \end{array}\right]_{1082858} = \left[\begin{array}{cccc} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 28 \end{array}\right]_{1082858} = \mathbf{Pl}(0,14,0,28,0,1)_{38611}$$

$$\ell_{170} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{21} \end{array}\right]_{1082788} = \left[\begin{array}{cccc} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 24 \end{array}\right]_{1082788} = \mathbf{Pl}(0,12,0,24,0,1)_{38357}$$

$$\ell_{171} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{29} \end{array}\right]_{1083103} = \left[\begin{array}{cccc} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 9 \end{array}\right]_{1083103} = \mathbf{Pl}(0,22,0,9,0,1)_{37422}$$

$$\ell_{172} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{3} \end{array}\right]_{1082508} = \left[\begin{array}{cccc} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 8 \end{array}\right]_{1082508} = \mathbf{Pl}(0,4,0,8,0,1)_{37341}$$

$$\ell_{173} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{26} \end{array}\right]_{1083216} = \left[\begin{array}{cccc} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 23 \end{array}\right]_{1083216} = \mathbf{Pl}(0,25,0,23,0,1)_{38307}$$

$$\ell_{174} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{5} \end{array}\right]_{1082901} = \left[\begin{array}{cccc} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 5 \end{array}\right]_{1082901} = \mathbf{Pl}(0,16,0,5,0,1)_{37164}$$

$$\ell_{175} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{12} \end{array}\right]_{1082613} = \left[\begin{array}{cccc} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 14 \end{array}\right]_{1082613} = \mathbf{Pl}(0,7,0,14,0,1)_{37722}$$

$$\ell_{176} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{24} \end{array}\right]_{1082893} = \left[\begin{array}{cccc} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 30 \end{array}\right]_{1082893} = \mathbf{Pl}(0,15,0,30,0,1)_{38738}$$

$$\ell_{177} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{20} \end{array}\right]_{1082578} = \left[\begin{array}{cccc} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 12 \end{array}\right]_{1082578} = \mathbf{Pl}(0,6,0,12,0,1)_{37595}$$

$$\ell_{178} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{9} \end{array}\right]_{1082823} = \left[\begin{array}{cccc} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 26 \end{array}\right]_{1082823} = \mathbf{Pl}(0,13,0,26,0,1)_{38484}$$

$$\ell_{179} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{28} \end{array}\right]_{1082753} = \left[\begin{array}{cccc} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 22 \end{array}\right]_{1082753} = \mathbf{Pl}(0,11,0,22,0,1)_{38230}$$

$$\ell_{180} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{22} \end{array}\right]_{1083181} = \left[\begin{array}{cccc} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 21 \end{array}\right]_{1083181} = \mathbf{Pl}(0,24,0,21,0,1)_{38180}$$

$$\ell_{181} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{2} \end{array}\right]_{1082438} = \left[\begin{array}{cccc} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 4 \end{array}\right]_{1082438} = \mathbf{Pl}(0,2,0,4,0,1)_{37087}$$

$$\ell_{182} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{15} \end{array}\right]_{1083356} = \left[\begin{array}{cccc} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 31 \end{array}\right]_{1083356} = \mathbf{Pl}(0,29,0,31,0,1)_{38815}$$

$$\ell_{183} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{25} \end{array}\right]_{1083383} = \left[\begin{array}{cccc} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 25 \end{array}\right]_{1083383} = \mathbf{Pl}(0,30,0,25,0,1)_{38438}$$

$$\ell_{184} = \begin{bmatrix} 0 & 1 & 0 & \eta^9 \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1083243} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1083243} = \mathbf{Pl}(0,26,0,17,0,1)_{37930}$$

$$\ell_{185} = \begin{bmatrix} 0 & 1 & 0 & \eta^3 \\ 0 & 0 & 1 & \eta^4 \end{bmatrix}_{1082648} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1082648} = \mathbf{Pl}(0,8,0,16,0,1)_{37849}$$

$$\ell_{186} = \begin{bmatrix} 0 & 1 & 0 & \eta^5 \\ 0 & 0 & 1 & \eta^6 \end{bmatrix}_{1082543} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1082543} = \mathbf{Pl}(0,5,0,10,0,1)_{37468}$$

$$\ell_{187} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1082936} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1082936} = \mathbf{Pl}(0,17,0,7,0,1)_{37291}$$

$$\ell_{188} = \begin{bmatrix} 0 & 1 & 0 & \eta^6 \\ 0 & 0 & 1 & \eta^7 \end{bmatrix}_{1082718} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 20 \end{bmatrix}_{1082718} = \mathbf{Pl}(0,10,0,20,0,1)_{38103}$$

$$\ell_{189} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1083076} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1083076} = \mathbf{Pl}(0,21,0,15,0,1)_{37799}$$

$$\ell_{190} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1083418} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1083418} = \mathbf{Pl}(0,31,0,27,0,1)_{38565}$$

$$\ell_{191} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{19} \end{bmatrix}_{1082473} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{1082473} = \mathbf{Pl}(0,3,0,6,0,1)_{37214}$$

$$\ell_{192} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1082998} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1082998} = \mathbf{Pl}(0,19,0,3,0,1)_{37041}$$

$$\ell_{193} = \begin{bmatrix} 0 & 1 & 0 & \eta^7 \\ 0 & 0 & 1 & \eta^8 \end{bmatrix}_{1083041} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1083041} = \mathbf{Pl}(0,20,0,13,0,1)_{37672}$$

$$\ell_{194} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1083278} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1083278} = \mathbf{Pl}(0,27,0,19,0,1)_{38057}$$

$$\ell_{195} = \begin{bmatrix} 0 & 1 & \eta^{13} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083324} = \begin{bmatrix} 0 & 1 & 28 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083324} = \mathbf{Pl}(0,28,0,1,0,0)_{124}$$

$$\ell_{196} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1082404} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1082404} = \mathbf{Pl}(0,1,0,3,0,1)_{37023}$$

$$\ell_{197} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1082981} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1082981} = \mathbf{Pl}(0,18,0,19,0,1)_{38048}$$

$$\ell_{198} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1083293} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1083293} = \mathbf{Pl}(0,28,0,1,0,1)_{36924}$$

$$\ell_{199} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1082692} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1082692} = \mathbf{Pl}(0,9,0,27,0,1)_{38543}$$

$$\ell_{200} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1083155} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1083155} = \mathbf{Pl}(0,23,0,28,0,1)_{38620}$$

$$\ell_{201} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1082848} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1082848} = \mathbf{Pl}(0,14,0,18,0,1)_{37981}$$

$$\ell_{202} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^7 \end{bmatrix}_{1082784} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 20 \end{bmatrix}_{1082784} = \mathbf{Pl}(0,12,0,20,0,1)_{38105}$$

$$\ell_{203} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1083125} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1083125} = \mathbf{Pl}(0,22,0,31,0,1)_{38808}$$

$$\ell_{204} = \begin{bmatrix} 0 & 1 & 0 & \eta^2 \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1082512} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1082512} = \mathbf{Pl}(0,4,0,12,0,1)_{37593}$$

$$\ell_{205} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{12} \end{array}\right]_{1083207} = \left[\begin{array}{cccc} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 14 \end{array}\right]_{1083207} = \mathbf{Pl}(0,25,0,14,0,1)_{37740}$$

$$\ell_{206} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{22} \end{array}\right]_{1082917} = \left[\begin{array}{cccc} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 21 \end{array}\right]_{1082917} = \mathbf{Pl}(0,16,0,21,0,1)_{38172}$$

$$\ell_{207} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{29} \end{array}\right]_{1082608} = \left[\begin{array}{cccc} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 9 \end{array}\right]_{1082608} = \mathbf{Pl}(0,7,0,9,0,1)_{37407}$$

$$\ell_{208} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{10} \end{array}\right]_{1082880} = \left[\begin{array}{cccc} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 17 \end{array}\right]_{1082880} = \mathbf{Pl}(0,15,0,17,0,1)_{37919}$$

$$\ell_{209} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{6} \end{array}\right]_{1082576} = \left[\begin{array}{cccc} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 10 \end{array}\right]_{1082576} = \mathbf{Pl}(0,6,0,10,0,1)_{37469}$$

$$\ell_{210} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{26} \end{array}\right]_{1082820} = \left[\begin{array}{cccc} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 23 \end{array}\right]_{1082820} = \mathbf{Pl}(0,13,0,23,0,1)_{38295}$$

$$\ell_{211} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{14} \end{array}\right]_{1082760} = \left[\begin{array}{cccc} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 29 \end{array}\right]_{1082760} = \mathbf{Pl}(0,11,0,29,0,1)_{38671}$$

$$\ell_{212} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{8} \end{array}\right]_{1083173} = \left[\begin{array}{cccc} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 13 \end{array}\right]_{1083173} = \mathbf{Pl}(0,24,0,13,0,1)_{37676}$$

$$\ell_{213} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{19} \end{array}\right]_{1082440} = \left[\begin{array}{cccc} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 6 \end{array}\right]_{1082440} = \mathbf{Pl}(0,2,0,6,0,1)_{37213}$$

$$\ell_{214} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta \end{array}\right]_{1083327} = \left[\begin{array}{cccc} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 2 \end{array}\right]_{1083327} = \mathbf{Pl}(0,29,0,2,0,1)_{36988}$$

$$\ell_{215} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{11} \end{array}\right]_{1083365} = \left[\begin{array}{cccc} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 7 \end{array}\right]_{1083365} = \mathbf{Pl}(0,30,0,7,0,1)_{37304}$$

$$\ell_{216} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{27} \end{array}\right]_{1083237} = \left[\begin{array}{cccc} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 11 \end{array}\right]_{1083237} = \mathbf{Pl}(0,26,0,11,0,1)_{37552}$$

$$\ell_{217} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{21} \end{array}\right]_{1082656} = \left[\begin{array}{cccc} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 24 \end{array}\right]_{1082656} = \mathbf{Pl}(0,8,0,24,0,1)_{38353}$$

$$\ell_{218} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{23} \end{array}\right]_{1082548} = \left[\begin{array}{cccc} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 15 \end{array}\right]_{1082548} = \mathbf{Pl}(0,5,0,15,0,1)_{37783}$$

$$\ell_{219} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{28} \end{array}\right]_{1082951} = \left[\begin{array}{cccc} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 22 \end{array}\right]_{1082951} = \mathbf{Pl}(0,17,0,22,0,1)_{38236}$$

$$\ell_{220} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{24} \end{array}\right]_{1082728} = \left[\begin{array}{cccc} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 30 \end{array}\right]_{1082728} = \mathbf{Pl}(0,10,0,30,0,1)_{38733}$$

$$\ell_{221} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{9} \end{array}\right]_{1083087} = \left[\begin{array}{cccc} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 26 \end{array}\right]_{1083087} = \mathbf{Pl}(0,21,0,26,0,1)_{38492}$$

$$\ell_{222} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{2} \end{array}\right]_{1083395} = \left[\begin{array}{cccc} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 4 \end{array}\right]_{1083395} = \mathbf{Pl}(0,31,0,4,0,1)_{37116}$$

$$\ell_{223} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{5} \end{array}\right]_{1082472} = \left[\begin{array}{cccc} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 5 \end{array}\right]_{1082472} = \mathbf{Pl}(0,3,0,5,0,1)_{37151}$$

$$\ell_{224} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{4} \end{array}\right]_{1083011} = \left[\begin{array}{cccc} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 16 \end{array}\right]_{1083011} = \mathbf{Pl}(0,19,0,16,0,1)_{37860}$$

$$\ell_{225} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{25} \end{array}\right]_{1083053} = \left[\begin{array}{cccc} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 25 \end{array}\right]_{1083053} = \mathbf{Pl}(0,20,0,25,0,1)_{38428}$$

$$\ell_{226} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^3 \end{bmatrix}_{1083267} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1083267} = \mathbf{Pl}(0, 27, 0, 8, 0, 1)_{37364}$$

$$\ell_{227} = \begin{bmatrix} 0 & 1 & \eta^{29} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082697} = \begin{bmatrix} 0 & 1 & 9 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082697} = \mathbf{Pl}(0, 9, 0, 1, 0, 0)_{105}$$

$$\ell_{228} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^2 \end{bmatrix}_{1082405} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1082405} = \mathbf{Pl}(0, 1, 0, 4, 0, 1)_{37086}$$

$$\ell_{229} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1082964} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1082964} = \mathbf{Pl}(0, 18, 0, 2, 0, 1)_{36977}$$

$$\ell_{230} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1083323} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1083323} = \mathbf{Pl}(0, 28, 0, 31, 0, 1)_{38814}$$

$$\ell_{231} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082666} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082666} = \mathbf{Pl}(0, 9, 0, 1, 0, 1)_{36905}$$

$$\ell_{232} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1083149} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1083149} = \mathbf{Pl}(0, 23, 0, 22, 0, 1)_{38242}$$

$$\ell_{233} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{14} \end{bmatrix}_{1082859} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 29 \end{bmatrix}_{1082859} = \mathbf{Pl}(0, 14, 0, 29, 0, 1)_{38674}$$

$$\ell_{234} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1082785} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1082785} = \mathbf{Pl}(0, 12, 0, 21, 0, 1)_{38168}$$

$$\ell_{235} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1083112} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1083112} = \mathbf{Pl}(0, 22, 0, 18, 0, 1)_{37989}$$

$$\ell_{236} = \begin{bmatrix} 0 & 1 & 0 & \eta^2 \\ 0 & 0 & 1 & \eta^4 \end{bmatrix}_{1082516} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1082516} = \mathbf{Pl}(0, 4, 0, 16, 0, 1)_{37845}$$

$$\ell_{237} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1083204} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1083204} = \mathbf{Pl}(0, 25, 0, 11, 0, 1)_{37551}$$

$$\ell_{238} = \begin{bmatrix} 0 & 1 & 0 & \eta^4 \\ 0 & 0 & 1 & \eta^6 \end{bmatrix}_{1082906} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1082906} = \mathbf{Pl}(0, 16, 0, 10, 0, 1)_{37479}$$

$$\ell_{239} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1082627} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1082627} = \mathbf{Pl}(0, 7, 0, 28, 0, 1)_{38604}$$

$$\ell_{240} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{25} \end{bmatrix}_{1082888} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 25 \end{bmatrix}_{1082888} = \mathbf{Pl}(0, 15, 0, 25, 0, 1)_{38423}$$

$$\ell_{241} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1082590} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1082590} = \mathbf{Pl}(0, 6, 0, 24, 0, 1)_{38351}$$

$$\ell_{242} = \begin{bmatrix} 0 & 1 & 0 & \eta^8 \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1082814} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1082814} = \mathbf{Pl}(0, 13, 0, 17, 0, 1)_{37917}$$

$$\ell_{243} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1082740} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1082740} = \mathbf{Pl}(0, 11, 0, 9, 0, 1)_{37411}$$

$$\ell_{244} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1083175} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1083175} = \mathbf{Pl}(0, 24, 0, 15, 0, 1)_{37802}$$

$$\ell_{245} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^3 \end{bmatrix}_{1082442} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1082442} = \mathbf{Pl}(0, 2, 0, 8, 0, 1)_{37339}$$

$$\ell_{246} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1083352} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1083352} = \mathbf{Pl}(0, 29, 0, 27, 0, 1)_{38563}$$

$$\ell_{247} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{26} \end{array}\right]_{1083381} = \left[\begin{array}{cccc} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 23 \end{array}\right]_{1083381} = \mathbf{Pl}(0,30,0,23,0,1)_{38312}$$

$$\ell_{248} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{11} \end{array}\right]_{1083233} = \left[\begin{array}{cccc} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 7 \end{array}\right]_{1083233} = \mathbf{Pl}(0,26,0,7,0,1)_{37300}$$

$$\ell_{249} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{5} \end{array}\right]_{1082637} = \left[\begin{array}{cccc} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 5 \end{array}\right]_{1082637} = \mathbf{Pl}(0,8,0,5,0,1)_{37156}$$

$$\ell_{250} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{7} \end{array}\right]_{1082553} = \left[\begin{array}{cccc} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 20 \end{array}\right]_{1082553} = \mathbf{Pl}(0,5,0,20,0,1)_{38098}$$

$$\ell_{251} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{12} \end{array}\right]_{1082943} = \left[\begin{array}{cccc} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 14 \end{array}\right]_{1082943} = \mathbf{Pl}(0,17,0,14,0,1)_{37732}$$

$$\ell_{252} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{8} \end{array}\right]_{1082711} = \left[\begin{array}{cccc} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 13 \end{array}\right]_{1082711} = \mathbf{Pl}(0,10,0,13,0,1)_{37662}$$

$$\ell_{253} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{24} \end{array}\right]_{1083091} = \left[\begin{array}{cccc} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 30 \end{array}\right]_{1083091} = \mathbf{Pl}(0,21,0,30,0,1)_{38744}$$

$$\ell_{254} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{17} \end{array}\right]_{1083410} = \left[\begin{array}{cccc} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 19 \end{array}\right]_{1083410} = \mathbf{Pl}(0,31,0,19,0,1)_{38061}$$

$$\ell_{255} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{20} \end{array}\right]_{1082479} = \left[\begin{array}{cccc} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 12 \end{array}\right]_{1082479} = \mathbf{Pl}(0,3,0,12,0,1)_{37592}$$

$$\ell_{256} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{19} \end{array}\right]_{1083001} = \left[\begin{array}{cccc} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 6 \end{array}\right]_{1083001} = \mathbf{Pl}(0,19,0,6,0,1)_{37230}$$

$$\ell_{257} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{9} \end{array}\right]_{1083054} = \left[\begin{array}{cccc} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 26 \end{array}\right]_{1083054} = \mathbf{Pl}(0,20,0,26,0,1)_{38491}$$

$$\ell_{258} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{18} \end{array}\right]_{1083262} = \left[\begin{array}{cccc} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 3 \end{array}\right]_{1083262} = \mathbf{Pl}(0,27,0,3,0,1)_{37049}$$

$$\ell_{259} = \left[\begin{array}{cccc} 0 & 1 & \eta^{26} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1083159} = \left[\begin{array}{cccc} 0 & 1 & 23 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1083159} = \mathbf{Pl}(0,23,0,1,0,0)_{119}$$

$$\ell_{260} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{5} \end{array}\right]_{1082406} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 5 \end{array}\right]_{1082406} = \mathbf{Pl}(0,1,0,5,0,1)_{37149}$$

$$\ell_{261} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{4} \end{array}\right]_{1082978} = \left[\begin{array}{cccc} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 16 \end{array}\right]_{1082978} = \mathbf{Pl}(0,18,0,16,0,1)_{37859}$$

$$\ell_{262} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{18} \end{array}\right]_{1083295} = \left[\begin{array}{cccc} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 3 \end{array}\right]_{1083295} = \mathbf{Pl}(0,28,0,3,0,1)_{37050}$$

$$\ell_{263} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{3} \end{array}\right]_{1082673} = \left[\begin{array}{cccc} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 8 \end{array}\right]_{1082673} = \mathbf{Pl}(0,9,0,8,0,1)_{37346}$$

$$\ell_{264} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & 1 \end{array}\right]_{1083128} = \left[\begin{array}{cccc} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 1 \end{array}\right]_{1083128} = \mathbf{Pl}(0,23,0,1,0,1)_{36919}$$

$$\ell_{265} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{17} \end{array}\right]_{1082849} = \left[\begin{array}{cccc} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 19 \end{array}\right]_{1082849} = \mathbf{Pl}(0,14,0,19,0,1)_{38044}$$

$$\ell_{266} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{25} \end{array}\right]_{1082789} = \left[\begin{array}{cccc} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 25 \end{array}\right]_{1082789} = \mathbf{Pl}(0,12,0,25,0,1)_{38420}$$

$$\ell_{267} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{2} \end{array}\right]_{1083098} = \left[\begin{array}{cccc} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 4 \end{array}\right]_{1083098} = \mathbf{Pl}(0,22,0,4,0,1)_{37107}$$

$$\ell_{268} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^2 \\ 0 & 0 & 1 & \eta^7 \end{array} \right]_{1082520} = \left[\begin{array}{cccc} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 20 \end{array} \right]_{1082520} = \mathbf{Pl}(0,4,0,20,0,1)_{38097}$$

$$\ell_{269} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{30} \end{array} \right]_{1083211} = \left[\begin{array}{cccc} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 18 \end{array} \right]_{1083211} = \mathbf{Pl}(0,25,0,18,0,1)_{37992}$$

$$\ell_{270} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^4 \\ 0 & 0 & 1 & \eta^9 \end{array} \right]_{1082922} = \left[\begin{array}{cccc} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 26 \end{array} \right]_{1082922} = \mathbf{Pl}(0,16,0,26,0,1)_{38487}$$

$$\ell_{271} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{16} \end{array} \right]_{1082626} = \left[\begin{array}{cccc} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 27 \end{array} \right]_{1082626} = \mathbf{Pl}(0,7,0,27,0,1)_{38541}$$

$$\ell_{272} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{28} \end{array} \right]_{1082885} = \left[\begin{array}{cccc} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 22 \end{array} \right]_{1082885} = \mathbf{Pl}(0,15,0,22,0,1)_{38234}$$

$$\ell_{273} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{24} \end{array} \right]_{1082596} = \left[\begin{array}{cccc} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 30 \end{array} \right]_{1082596} = \mathbf{Pl}(0,6,0,30,0,1)_{38729}$$

$$\ell_{274} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^8 \\ 0 & 0 & 1 & \eta^{13} \end{array} \right]_{1082825} = \left[\begin{array}{cccc} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 28 \end{array} \right]_{1082825} = \mathbf{Pl}(0,13,0,28,0,1)_{38610}$$

$$\ell_{275} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta \end{array} \right]_{1082733} = \left[\begin{array}{cccc} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 2 \end{array} \right]_{1082733} = \mathbf{Pl}(0,11,0,2,0,1)_{36970}$$

$$\ell_{276} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{26} \end{array} \right]_{1083183} = \left[\begin{array}{cccc} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 23 \end{array} \right]_{1083183} = \mathbf{Pl}(0,24,0,23,0,1)_{38306}$$

$$\ell_{277} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^6 \end{array} \right]_{1082444} = \left[\begin{array}{cccc} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 10 \end{array} \right]_{1082444} = \mathbf{Pl}(0,2,0,10,0,1)_{37465}$$

$$\ell_{278} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{19} \end{array} \right]_{1083331} = \left[\begin{array}{cccc} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 6 \end{array} \right]_{1083331} = \mathbf{Pl}(0,29,0,6,0,1)_{37240}$$

$$\ell_{279} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{29} \end{array} \right]_{1083367} = \left[\begin{array}{cccc} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 9 \end{array} \right]_{1083367} = \mathbf{Pl}(0,30,0,9,0,1)_{37430}$$

$$\ell_{280} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^9 \\ 0 & 0 & 1 & \eta^{14} \end{array} \right]_{1083255} = \left[\begin{array}{cccc} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 29 \end{array} \right]_{1083255} = \mathbf{Pl}(0,26,0,29,0,1)_{38686}$$

$$\ell_{281} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^3 \\ 0 & 0 & 1 & \eta^8 \end{array} \right]_{1082645} = \left[\begin{array}{cccc} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 13 \end{array} \right]_{1082645} = \mathbf{Pl}(0,8,0,13,0,1)_{37660}$$

$$\ell_{282} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^5 \\ 0 & 0 & 1 & \eta^{10} \end{array} \right]_{1082550} = \left[\begin{array}{cccc} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 17 \end{array} \right]_{1082550} = \mathbf{Pl}(0,5,0,17,0,1)_{37909}$$

$$\ell_{283} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{15} \end{array} \right]_{1082960} = \left[\begin{array}{cccc} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 31 \end{array} \right]_{1082960} = \mathbf{Pl}(0,17,0,31,0,1)_{38803}$$

$$\ell_{284} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^6 \\ 0 & 0 & 1 & \eta^{11} \end{array} \right]_{1082705} = \left[\begin{array}{cccc} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 7 \end{array} \right]_{1082705} = \mathbf{Pl}(0,10,0,7,0,1)_{37284}$$

$$\ell_{285} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{27} \end{array} \right]_{1083072} = \left[\begin{array}{cccc} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 11 \end{array} \right]_{1083072} = \mathbf{Pl}(0,21,0,11,0,1)_{37547}$$

$$\ell_{286} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{20} \end{array} \right]_{1083403} = \left[\begin{array}{cccc} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 12 \end{array} \right]_{1083403} = \mathbf{Pl}(0,31,0,12,0,1)_{37620}$$

$$\ell_{287} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{23} \end{array} \right]_{1082482} = \left[\begin{array}{cccc} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 15 \end{array} \right]_{1082482} = \mathbf{Pl}(0,3,0,15,0,1)_{37781}$$

$$\ell_{288} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{22} \end{array} \right]_{1083016} = \left[\begin{array}{cccc} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 21 \end{array} \right]_{1083016} = \mathbf{Pl}(0,19,0,21,0,1)_{38175}$$

$$\ell_{289} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^7 \\ 0 & 0 & 1 & \eta^{12} \end{array}\right]_{1083042} = \left[\begin{array}{cccc} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 14 \end{array}\right]_{1083042} = \mathbf{Pl}(0,20,0,14,0,1)_{37735}$$

$$\ell_{290} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{21} \end{array}\right]_{1083283} = \left[\begin{array}{cccc} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 24 \end{array}\right]_{1083283} = \mathbf{Pl}(0,27,0,24,0,1)_{38372}$$

$$\ell_{291} = \left[\begin{array}{cccc} 0 & 1 & \eta^{12} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082862} = \left[\begin{array}{cccc} 0 & 1 & 14 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082862} = \mathbf{Pl}(0,14,0,1,0,0)_{110}$$

$$\ell_{292} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{19} \end{array}\right]_{1082407} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 6 \end{array}\right]_{1082407} = \mathbf{Pl}(0,1,0,6,0,1)_{37212}$$

$$\ell_{293} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{18} \end{array}\right]_{1082965} = \left[\begin{array}{cccc} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 3 \end{array}\right]_{1082965} = \mathbf{Pl}(0,18,0,3,0,1)_{37040}$$

$$\ell_{294} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta \end{array}\right]_{1083294} = \left[\begin{array}{cccc} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 2 \end{array}\right]_{1083294} = \mathbf{Pl}(0,28,0,2,0,1)_{36987}$$

$$\ell_{295} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{17} \end{array}\right]_{1082684} = \left[\begin{array}{cccc} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 19 \end{array}\right]_{1082684} = \mathbf{Pl}(0,9,0,19,0,1)_{38039}$$

$$\ell_{296} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{14} \end{array}\right]_{1083156} = \left[\begin{array}{cccc} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 29 \end{array}\right]_{1083156} = \mathbf{Pl}(0,23,0,29,0,1)_{38683}$$

$$\ell_{297} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082831} = \left[\begin{array}{cccc} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082831} = \mathbf{Pl}(0,14,0,1,0,1)_{36910}$$

$$\ell_{298} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^8 \end{array}\right]_{1082777} = \left[\begin{array}{cccc} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 13 \end{array}\right]_{1082777} = \mathbf{Pl}(0,12,0,13,0,1)_{37664}$$

$$\ell_{299} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{16} \end{array}\right]_{1083121} = \left[\begin{array}{cccc} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 27 \end{array}\right]_{1083121} = \mathbf{Pl}(0,22,0,27,0,1)_{38556}$$

$$\ell_{300} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^2 \\ 0 & 0 & 1 & \eta^{21} \end{array}\right]_{1082524} = \left[\begin{array}{cccc} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 24 \end{array}\right]_{1082524} = \mathbf{Pl}(0,4,0,24,0,1)_{38349}$$

$$\ell_{301} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{13} \end{array}\right]_{1083221} = \left[\begin{array}{cccc} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 28 \end{array}\right]_{1083221} = \mathbf{Pl}(0,25,0,28,0,1)_{38622}$$

$$\ell_{302} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^4 \\ 0 & 0 & 1 & \eta^{23} \end{array}\right]_{1082911} = \left[\begin{array}{cccc} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 15 \end{array}\right]_{1082911} = \mathbf{Pl}(0,16,0,15,0,1)_{37794}$$

$$\ell_{303} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{30} \end{array}\right]_{1082617} = \left[\begin{array}{cccc} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 18 \end{array}\right]_{1082617} = \mathbf{Pl}(0,7,0,18,0,1)_{37974}$$

$$\ell_{304} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{11} \end{array}\right]_{1082870} = \left[\begin{array}{cccc} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 7 \end{array}\right]_{1082870} = \mathbf{Pl}(0,15,0,7,0,1)_{37289}$$

$$\ell_{305} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^7 \end{array}\right]_{1082586} = \left[\begin{array}{cccc} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 20 \end{array}\right]_{1082586} = \mathbf{Pl}(0,6,0,20,0,1)_{38099}$$

$$\ell_{306} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^8 \\ 0 & 0 & 1 & \eta^{27} \end{array}\right]_{1082808} = \left[\begin{array}{cccc} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 11 \end{array}\right]_{1082808} = \mathbf{Pl}(0,13,0,11,0,1)_{37539}$$

$$\ell_{307} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{15} \end{array}\right]_{1082762} = \left[\begin{array}{cccc} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 31 \end{array}\right]_{1082762} = \mathbf{Pl}(0,11,0,31,0,1)_{38797}$$

$$\ell_{308} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^9 \end{array}\right]_{1083186} = \left[\begin{array}{cccc} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 26 \end{array}\right]_{1083186} = \mathbf{Pl}(0,24,0,26,0,1)_{38495}$$

$$\ell_{309} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{20} \end{array}\right]_{1082446} = \left[\begin{array}{cccc} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 12 \end{array}\right]_{1082446} = \mathbf{Pl}(0,2,0,12,0,1)_{37591}$$

$$\ell_{310} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{2} \end{bmatrix}_{1083329} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1083329} = \mathbf{Pl}(0,29,0,4,0,1)_{37114}$$

$$\ell_{311} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1083372} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1083372} = \mathbf{Pl}(0,30,0,14,0,1)_{37745}$$

$$\ell_{312} = \begin{bmatrix} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1083248} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1083248} = \mathbf{Pl}(0,26,0,22,0,1)_{38245}$$

$$\ell_{313} = \begin{bmatrix} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1082653} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1082653} = \mathbf{Pl}(0,8,0,21,0,1)_{38164}$$

$$\ell_{314} = \begin{bmatrix} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1082563} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1082563} = \mathbf{Pl}(0,5,0,30,0,1)_{38728}$$

$$\ell_{315} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1082938} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1082938} = \mathbf{Pl}(0,17,0,9,0,1)_{37417}$$

$$\ell_{316} = \begin{bmatrix} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{25} \end{bmatrix}_{1082723} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 25 \end{bmatrix}_{1082723} = \mathbf{Pl}(0,10,0,25,0,1)_{38418}$$

$$\ell_{317} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1083078} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1083078} = \mathbf{Pl}(0,21,0,17,0,1)_{37925}$$

$$\ell_{318} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{3} \end{bmatrix}_{1083399} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1083399} = \mathbf{Pl}(0,31,0,8,0,1)_{37368}$$

$$\ell_{319} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{6} \end{bmatrix}_{1082477} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1082477} = \mathbf{Pl}(0,3,0,10,0,1)_{37466}$$

$$\ell_{320} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{5} \end{bmatrix}_{1083000} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1083000} = \mathbf{Pl}(0,19,0,5,0,1)_{37167}$$

$$\ell_{321} = \begin{bmatrix} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1083051} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1083051} = \mathbf{Pl}(0,20,0,23,0,1)_{38302}$$

$$\ell_{322} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{4} \end{bmatrix}_{1083275} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1083275} = \mathbf{Pl}(0,27,0,16,0,1)_{37868}$$

$$\ell_{323} = \begin{bmatrix} 0 & 1 & \eta^{20} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082796} = \begin{bmatrix} 0 & 1 & 12 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082796} = \mathbf{Pl}(0,12,0,1,0,0)_{108}$$

$$\ell_{324} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1082408} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1082408} = \mathbf{Pl}(0,1,0,7,0,1)_{37275}$$

$$\ell_{325} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1082979} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1082979} = \mathbf{Pl}(0,18,0,17,0,1)_{37922}$$

$$\ell_{326} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1083322} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1083322} = \mathbf{Pl}(0,28,0,30,0,1)_{38751}$$

$$\ell_{327} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{9} \end{bmatrix}_{1082691} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 26 \end{bmatrix}_{1082691} = \mathbf{Pl}(0,9,0,26,0,1)_{38480}$$

$$\ell_{328} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{6} \end{bmatrix}_{1083137} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1083137} = \mathbf{Pl}(0,23,0,10,0,1)_{37486}$$

$$\ell_{329} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1082845} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1082845} = \mathbf{Pl}(0,14,0,15,0,1)_{37792}$$

$$\ell_{330} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082765} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082765} = \mathbf{Pl}(0,12,0,1,0,1)_{36908}$$

$$\ell_{331} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^8 \end{bmatrix}_{1083107} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1083107} = \mathbf{Pl}(0, 22, 0, 13, 0, 1)_{37674}$$

$$\ell_{332} = \begin{bmatrix} 0 & 1 & 0 & \eta^2 \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1082528} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1082528} = \mathbf{Pl}(0, 4, 0, 28, 0, 1)_{38601}$$

$$\ell_{333} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^5 \end{bmatrix}_{1083198} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1083198} = \mathbf{Pl}(0, 25, 0, 5, 0, 1)_{37173}$$

$$\ell_{334} = \begin{bmatrix} 0 & 1 & 0 & \eta^4 \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1082927} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1082927} = \mathbf{Pl}(0, 16, 0, 31, 0, 1)_{38802}$$

$$\ell_{335} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1082620} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1082620} = \mathbf{Pl}(0, 7, 0, 21, 0, 1)_{38163}$$

$$\ell_{336} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^3 \end{bmatrix}_{1082871} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1082871} = \mathbf{Pl}(0, 15, 0, 8, 0, 1)_{37352}$$

$$\ell_{337} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1082584} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1082584} = \mathbf{Pl}(0, 6, 0, 18, 0, 1)_{37973}$$

$$\ell_{338} = \begin{bmatrix} 0 & 1 & 0 & \eta^8 \\ 0 & 0 & 1 & \eta^{19} \end{bmatrix}_{1082803} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{1082803} = \mathbf{Pl}(0, 13, 0, 6, 0, 1)_{37224}$$

$$\ell_{339} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^7 \end{bmatrix}_{1082751} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 20 \end{bmatrix}_{1082751} = \mathbf{Pl}(0, 11, 0, 20, 0, 1)_{38104}$$

$$\ell_{340} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1083162} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1083162} = \mathbf{Pl}(0, 24, 0, 2, 0, 1)_{36983}$$

$$\ell_{341} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1082448} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1082448} = \mathbf{Pl}(0, 2, 0, 14, 0, 1)_{37717}$$

$$\ell_{342} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{25} \end{bmatrix}_{1083350} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 25 \end{bmatrix}_{1083350} = \mathbf{Pl}(0, 29, 0, 25, 0, 1)_{38437}$$

$$\ell_{343} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^4 \end{bmatrix}_{1083374} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1083374} = \mathbf{Pl}(0, 30, 0, 16, 0, 1)_{37871}$$

$$\ell_{344} = \begin{bmatrix} 0 & 1 & 0 & \eta^9 \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1083238} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1083238} = \mathbf{Pl}(0, 26, 0, 12, 0, 1)_{37615}$$

$$\ell_{345} = \begin{bmatrix} 0 & 1 & 0 & \eta^3 \\ 0 & 0 & 1 & \eta^{14} \end{bmatrix}_{1082661} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 29 \end{bmatrix}_{1082661} = \mathbf{Pl}(0, 8, 0, 29, 0, 1)_{38668}$$

$$\ell_{346} = \begin{bmatrix} 0 & 1 & 0 & \eta^5 \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1082560} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1082560} = \mathbf{Pl}(0, 5, 0, 27, 0, 1)_{38539}$$

$$\ell_{347} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1082953} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1082953} = \mathbf{Pl}(0, 17, 0, 24, 0, 1)_{38362}$$

$$\ell_{348} = \begin{bmatrix} 0 & 1 & 0 & \eta^6 \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1082717} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1082717} = \mathbf{Pl}(0, 10, 0, 19, 0, 1)_{38040}$$

$$\ell_{349} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^2 \end{bmatrix}_{1083065} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1083065} = \mathbf{Pl}(0, 21, 0, 4, 0, 1)_{37106}$$

$$\ell_{350} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1083414} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1083414} = \mathbf{Pl}(0, 31, 0, 23, 0, 1)_{38313}$$

$$\ell_{351} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1082476} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1082476} = \mathbf{Pl}(0, 3, 0, 9, 0, 1)_{37403}$$

$$\ell_{352} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{28} \end{array}\right]_{1083017} = \left[\begin{array}{cccc} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 22 \end{array}\right]_{1083017} = \mathbf{Pl}(0,19,0,22,0,1)_{38238}$$

$$\ell_{353} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{18} \end{array}\right]_{1083031} = \left[\begin{array}{cccc} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 3 \end{array}\right]_{1083031} = \mathbf{Pl}(0,20,0,3,0,1)_{37042}$$

$$\ell_{354} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{27} \end{array}\right]_{1083270} = \left[\begin{array}{cccc} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 11 \end{array}\right]_{1083270} = \mathbf{Pl}(0,27,0,11,0,1)_{37553}$$

$$\ell_{355} = \left[\begin{array}{cccc} 0 & 1 & \eta^{28} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1083126} = \left[\begin{array}{cccc} 0 & 1 & 22 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1083126} = \mathbf{Pl}(0,22,0,1,0,0)_{118}$$

$$\ell_{356} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{3} \end{array}\right]_{1082409} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 8 \end{array}\right]_{1082409} = \mathbf{Pl}(0,1,0,8,0,1)_{37338}$$

$$\ell_{357} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{2} \end{array}\right]_{1082966} = \left[\begin{array}{cccc} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 4 \end{array}\right]_{1082966} = \mathbf{Pl}(0,18,0,4,0,1)_{37103}$$

$$\ell_{358} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{16} \end{array}\right]_{1083319} = \left[\begin{array}{cccc} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 27 \end{array}\right]_{1083319} = \mathbf{Pl}(0,28,0,27,0,1)_{38562}$$

$$\ell_{359} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta \end{array}\right]_{1082667} = \left[\begin{array}{cccc} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 2 \end{array}\right]_{1082667} = \mathbf{Pl}(0,9,0,2,0,1)_{36968}$$

$$\ell_{360} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{29} \end{array}\right]_{1083136} = \left[\begin{array}{cccc} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 9 \end{array}\right]_{1083136} = \mathbf{Pl}(0,23,0,9,0,1)_{37423}$$

$$\ell_{361} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{15} \end{array}\right]_{1082861} = \left[\begin{array}{cccc} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 31 \end{array}\right]_{1082861} = \mathbf{Pl}(0,14,0,31,0,1)_{38800}$$

$$\ell_{362} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{23} \end{array}\right]_{1082779} = \left[\begin{array}{cccc} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 15 \end{array}\right]_{1082779} = \mathbf{Pl}(0,12,0,15,0,1)_{37790}$$

$$\ell_{363} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & 1 \end{array}\right]_{1083095} = \left[\begin{array}{cccc} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 1 \end{array}\right]_{1083095} = \mathbf{Pl}(0,22,0,1,0,1)_{36918}$$

$$\ell_{364} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{5} \end{array}\right]_{1082505} = \left[\begin{array}{cccc} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 5 \end{array}\right]_{1082505} = \mathbf{Pl}(0,4,0,5,0,1)_{37152}$$

$$\ell_{365} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{28} \end{array}\right]_{1083215} = \left[\begin{array}{cccc} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 22 \end{array}\right]_{1083215} = \mathbf{Pl}(0,25,0,22,0,1)_{38244}$$

$$\ell_{366} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{7} \end{array}\right]_{1082916} = \left[\begin{array}{cccc} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 20 \end{array}\right]_{1082916} = \mathbf{Pl}(0,16,0,20,0,1)_{38109}$$

$$\ell_{367} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{14} \end{array}\right]_{1082628} = \left[\begin{array}{cccc} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 29 \end{array}\right]_{1082628} = \mathbf{Pl}(0,7,0,29,0,1)_{38667}$$

$$\ell_{368} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{26} \end{array}\right]_{1082886} = \left[\begin{array}{cccc} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 23 \end{array}\right]_{1082886} = \mathbf{Pl}(0,15,0,23,0,1)_{38297}$$

$$\ell_{369} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{22} \end{array}\right]_{1082587} = \left[\begin{array}{cccc} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 21 \end{array}\right]_{1082587} = \mathbf{Pl}(0,6,0,21,0,1)_{38162}$$

$$\ell_{370} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{11} \end{array}\right]_{1082804} = \left[\begin{array}{cccc} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 7 \end{array}\right]_{1082804} = \mathbf{Pl}(0,13,0,7,0,1)_{37287}$$

$$\ell_{371} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{30} \end{array}\right]_{1082749} = \left[\begin{array}{cccc} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 18 \end{array}\right]_{1082749} = \mathbf{Pl}(0,11,0,18,0,1)_{37978}$$

$$\ell_{372} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{24} \end{array}\right]_{1083190} = \left[\begin{array}{cccc} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 30 \end{array}\right]_{1083190} = \mathbf{Pl}(0,24,0,30,0,1)_{38747}$$

19

$$\ell_{373} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^4 \end{array}\right]_{1082450} = \left[\begin{array}{cccc} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 16 \end{array}\right]_{1082450} = \mathbf{Pl}(0,2,0,16,0,1)_{37843}$$

$$\ell_{374} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{17} \end{array}\right]_{1083344} = \left[\begin{array}{cccc} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 19 \end{array}\right]_{1083344} = \mathbf{Pl}(0,29,0,19,0,1)_{38059}$$

$$\ell_{375} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{27} \end{array}\right]_{1083369} = \left[\begin{array}{cccc} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 11 \end{array}\right]_{1083369} = \mathbf{Pl}(0,30,0,11,0,1)_{37556}$$

$$\ell_{376} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^9 \\ 0 & 0 & 1 & \eta^{12} \end{array}\right]_{1083240} = \left[\begin{array}{cccc} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 14 \end{array}\right]_{1083240} = \mathbf{Pl}(0,26,0,14,0,1)_{37741}$$

$$\ell_{377} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^3 \\ 0 & 0 & 1 & \eta^6 \end{array}\right]_{1082642} = \left[\begin{array}{cccc} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 10 \end{array}\right]_{1082642} = \mathbf{Pl}(0,8,0,10,0,1)_{37471}$$

$$\ell_{378} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^5 \\ 0 & 0 & 1 & \eta^8 \end{array}\right]_{1082546} = \left[\begin{array}{cccc} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 13 \end{array}\right]_{1082546} = \mathbf{Pl}(0,5,0,13,0,1)_{37657}$$

$$\ell_{379} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{13} \end{array}\right]_{1082957} = \left[\begin{array}{cccc} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 28 \end{array}\right]_{1082957} = \mathbf{Pl}(0,17,0,28,0,1)_{38614}$$

$$\ell_{380} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^6 \\ 0 & 0 & 1 & \eta^9 \end{array}\right]_{1082724} = \left[\begin{array}{cccc} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 26 \end{array}\right]_{1082724} = \mathbf{Pl}(0,10,0,26,0,1)_{38481}$$

$$\ell_{381} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{25} \end{array}\right]_{1083086} = \left[\begin{array}{cccc} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 25 \end{array}\right]_{1083086} = \mathbf{Pl}(0,21,0,25,0,1)_{38429}$$

$$\ell_{382} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{18} \end{array}\right]_{1083394} = \left[\begin{array}{cccc} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 3 \end{array}\right]_{1083394} = \mathbf{Pl}(0,31,0,3,0,1)_{37053}$$

$$\ell_{383} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{21} \end{array}\right]_{1082491} = \left[\begin{array}{cccc} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 24 \end{array}\right]_{1082491} = \mathbf{Pl}(0,3,0,24,0,1)_{38348}$$

$$\ell_{384} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{20} \end{array}\right]_{1083007} = \left[\begin{array}{cccc} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 12 \end{array}\right]_{1083007} = \mathbf{Pl}(0,19,0,12,0,1)_{37608}$$

$$\ell_{385} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^7 \\ 0 & 0 & 1 & \eta^{10} \end{array}\right]_{1083045} = \left[\begin{array}{cccc} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 17 \end{array}\right]_{1083045} = \mathbf{Pl}(0,20,0,17,0,1)_{37924}$$

$$\ell_{386} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{19} \end{array}\right]_{1083265} = \left[\begin{array}{cccc} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 6 \end{array}\right]_{1083265} = \mathbf{Pl}(0,27,0,6,0,1)_{37238}$$

$$\ell_{387} = \left[\begin{array}{cccc} 0 & 1 & \eta^2 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082532} = \left[\begin{array}{cccc} 0 & 1 & 4 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082532} = \mathbf{Pl}(0,4,0,1,0,0)_{100}$$

$$\ell_{388} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{29} \end{array}\right]_{1082410} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 9 \end{array}\right]_{1082410} = \mathbf{Pl}(0,1,0,9,0,1)_{37401}$$

$$\ell_{389} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{28} \end{array}\right]_{1082984} = \left[\begin{array}{cccc} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 22 \end{array}\right]_{1082984} = \mathbf{Pl}(0,18,0,22,0,1)_{38237}$$

$$\ell_{390} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{11} \end{array}\right]_{1083299} = \left[\begin{array}{cccc} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 7 \end{array}\right]_{1083299} = \mathbf{Pl}(0,28,0,7,0,1)_{37302}$$

$$\ell_{391} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{27} \end{array}\right]_{1082676} = \left[\begin{array}{cccc} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 11 \end{array}\right]_{1082676} = \mathbf{Pl}(0,9,0,11,0,1)_{37535}$$

$$\ell_{392} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{24} \end{array}\right]_{1083157} = \left[\begin{array}{cccc} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 30 \end{array}\right]_{1083157} = \mathbf{Pl}(0,23,0,30,0,1)_{38746}$$

$$\ell_{393} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{10} \end{array}\right]_{1082847} = \left[\begin{array}{cccc} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 17 \end{array}\right]_{1082847} = \mathbf{Pl}(0,14,0,17,0,1)_{37918}$$

$$\ell_{394} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1082767} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1082767} = \mathbf{Pl}(0,12,0,3,0,1)_{37034}$$

$$\ell_{395} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1083117} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1083117} = \mathbf{Pl}(0,22,0,23,0,1)_{38304}$$

$$\ell_{396} = \begin{bmatrix} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082501} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082501} = \mathbf{Pl}(0,4,0,1,0,1)_{36900}$$

$$\ell_{397} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1083208} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1083208} = \mathbf{Pl}(0,25,0,15,0,1)_{37803}$$

$$\ell_{398} = \begin{bmatrix} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{2} \end{bmatrix}_{1082900} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1082900} = \mathbf{Pl}(0,16,0,4,0,1)_{37101}$$

$$\ell_{399} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{9} \end{bmatrix}_{1082625} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 26 \end{bmatrix}_{1082625} = \mathbf{Pl}(0,7,0,26,0,1)_{38478}$$

$$\ell_{400} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1082887} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1082887} = \mathbf{Pl}(0,15,0,24,0,1)_{38360}$$

$$\ell_{401} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1082585} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1082585} = \mathbf{Pl}(0,6,0,19,0,1)_{38036}$$

$$\ell_{402} = \begin{bmatrix} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{6} \end{bmatrix}_{1082807} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1082807} = \mathbf{Pl}(0,13,0,10,0,1)_{37476}$$

$$\ell_{403} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{25} \end{bmatrix}_{1082756} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 25 \end{bmatrix}_{1082756} = \mathbf{Pl}(0,11,0,25,0,1)_{38419}$$

$$\ell_{404} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{19} \end{bmatrix}_{1083166} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{1083166} = \mathbf{Pl}(0,24,0,6,0,1)_{37235}$$

$$\ell_{405} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1082452} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1082452} = \mathbf{Pl}(0,2,0,18,0,1)_{37969}$$

$$\ell_{406} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1083339} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1083339} = \mathbf{Pl}(0,29,0,14,0,1)_{37744}$$

$$\ell_{407} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1083379} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1083379} = \mathbf{Pl}(0,30,0,21,0,1)_{38186}$$

$$\ell_{408} = \begin{bmatrix} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{7} \end{bmatrix}_{1083246} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 20 \end{bmatrix}_{1083246} = \mathbf{Pl}(0,26,0,20,0,1)_{38119}$$

$$\ell_{409} = \begin{bmatrix} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1082634} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1082634} = \mathbf{Pl}(0,8,0,2,0,1)_{36967}$$

$$\ell_{410} = \begin{bmatrix} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{3} \end{bmatrix}_{1082541} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1082541} = \mathbf{Pl}(0,5,0,8,0,1)_{37342}$$

$$\ell_{411} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{8} \end{bmatrix}_{1082942} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1082942} = \mathbf{Pl}(0,17,0,13,0,1)_{37669}$$

$$\ell_{412} = \begin{bmatrix} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{4} \end{bmatrix}_{1082714} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1082714} = \mathbf{Pl}(0,10,0,16,0,1)_{37851}$$

$$\ell_{413} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1083073} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1083073} = \mathbf{Pl}(0,21,0,12,0,1)_{37610}$$

$$\ell_{414} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1083419} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1083419} = \mathbf{Pl}(0,31,0,28,0,1)_{38628}$$

$$\ell_{415} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{16} \end{array}\right]_{1082494} = \left[\begin{array}{cccc} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 27 \end{array}\right]_{1082494} = \mathbf{Pl}(0,3,0,27,0,1)_{38537}$$

$$\ell_{416} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{15} \end{array}\right]_{1083026} = \left[\begin{array}{cccc} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 31 \end{array}\right]_{1083026} = \mathbf{Pl}(0,19,0,31,0,1)_{38805}$$

$$\ell_{417} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{5} \end{array}\right]_{1083033} = \left[\begin{array}{cccc} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 5 \end{array}\right]_{1083033} = \mathbf{Pl}(0,20,0,5,0,1)_{37168}$$

$$\ell_{418} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{14} \end{array}\right]_{1083288} = \left[\begin{array}{cccc} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 29 \end{array}\right]_{1083288} = \mathbf{Pl}(0,27,0,29,0,1)_{38687}$$

$$\ell_{419} = \left[\begin{array}{cccc} 0 & 1 & \eta^{25} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1083225} = \left[\begin{array}{cccc} 0 & 1 & 25 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1083225} = \mathbf{Pl}(0,25,0,1,0,0)_{121}$$

$$\ell_{420} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{6} \end{array}\right]_{1082411} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 10 \end{array}\right]_{1082411} = \mathbf{Pl}(0,1,0,10,0,1)_{37464}$$

$$\ell_{421} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{5} \end{array}\right]_{1082967} = \left[\begin{array}{cccc} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 5 \end{array}\right]_{1082967} = \mathbf{Pl}(0,18,0,5,0,1)_{37166}$$

$$\ell_{422} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{19} \end{array}\right]_{1083298} = \left[\begin{array}{cccc} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 6 \end{array}\right]_{1083298} = \mathbf{Pl}(0,28,0,6,0,1)_{37239}$$

$$\ell_{423} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{4} \end{array}\right]_{1082681} = \left[\begin{array}{cccc} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 16 \end{array}\right]_{1082681} = \mathbf{Pl}(0,9,0,16,0,1)_{37850}$$

$$\ell_{424} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta \end{array}\right]_{1083129} = \left[\begin{array}{cccc} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 2 \end{array}\right]_{1083129} = \mathbf{Pl}(0,23,0,2,0,1)_{36982}$$

$$\ell_{425} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{18} \end{array}\right]_{1082833} = \left[\begin{array}{cccc} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 3 \end{array}\right]_{1082833} = \mathbf{Pl}(0,14,0,3,0,1)_{37036}$$

$$\ell_{426} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{26} \end{array}\right]_{1082787} = \left[\begin{array}{cccc} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 23 \end{array}\right]_{1082787} = \mathbf{Pl}(0,12,0,23,0,1)_{38294}$$

$$\ell_{427} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{3} \end{array}\right]_{1083102} = \left[\begin{array}{cccc} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 8 \end{array}\right]_{1083102} = \mathbf{Pl}(0,22,0,8,0,1)_{37359}$$

$$\ell_{428} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{8} \end{array}\right]_{1082513} = \left[\begin{array}{cccc} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 13 \end{array}\right]_{1082513} = \mathbf{Pl}(0,4,0,13,0,1)_{37656}$$

$$\ell_{429} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & 1 \end{array}\right]_{1083194} = \left[\begin{array}{cccc} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 1 \end{array}\right]_{1083194} = \mathbf{Pl}(0,25,0,1,0,1)_{36921}$$

$$\ell_{430} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{10} \end{array}\right]_{1082913} = \left[\begin{array}{cccc} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 17 \end{array}\right]_{1082913} = \mathbf{Pl}(0,16,0,17,0,1)_{37920}$$

$$\ell_{431} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{17} \end{array}\right]_{1082618} = \left[\begin{array}{cccc} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 19 \end{array}\right]_{1082618} = \mathbf{Pl}(0,7,0,19,0,1)_{38037}$$

$$\ell_{432} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{29} \end{array}\right]_{1082872} = \left[\begin{array}{cccc} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 9 \end{array}\right]_{1082872} = \mathbf{Pl}(0,15,0,9,0,1)_{37415}$$

$$\ell_{433} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{25} \end{array}\right]_{1082591} = \left[\begin{array}{cccc} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 25 \end{array}\right]_{1082591} = \mathbf{Pl}(0,6,0,25,0,1)_{38414}$$

$$\ell_{434} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{14} \end{array}\right]_{1082826} = \left[\begin{array}{cccc} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 29 \end{array}\right]_{1082826} = \mathbf{Pl}(0,13,0,29,0,1)_{38673}$$

$$\ell_{435} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{2} \end{array}\right]_{1082735} = \left[\begin{array}{cccc} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 4 \end{array}\right]_{1082735} = \mathbf{Pl}(0,11,0,4,0,1)_{37096}$$

$$\ell_{436} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1083171} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1083171} = \mathbf{Pl}(0,24,0,11,0,1)_{37550}$$

$$\ell_{437} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{7} \end{bmatrix}_{1082454} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 20 \end{bmatrix}_{1082454} = \mathbf{Pl}(0,2,0,20,0,1)_{38095}$$

$$\ell_{438} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1083337} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1083337} = \mathbf{Pl}(0,29,0,12,0,1)_{37618}$$

$$\ell_{439} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1083376} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1083376} = \mathbf{Pl}(0,30,0,18,0,1)_{37997}$$

$$\ell_{440} = \begin{bmatrix} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1083257} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1083257} = \mathbf{Pl}(0,26,0,31,0,1)_{38812}$$

$$\ell_{441} = \begin{bmatrix} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{9} \end{bmatrix}_{1082658} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 26 \end{bmatrix}_{1082658} = \mathbf{Pl}(0,8,0,26,0,1)_{38479}$$

$$\ell_{442} = \begin{bmatrix} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1082540} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1082540} = \mathbf{Pl}(0,5,0,7,0,1)_{37279}$$

$$\ell_{443} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1082956} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1082956} = \mathbf{Pl}(0,17,0,27,0,1)_{38551}$$

$$\ell_{444} = \begin{bmatrix} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1082712} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1082712} = \mathbf{Pl}(0,10,0,14,0,1)_{37725}$$

$$\ell_{445} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1083083} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1083083} = \mathbf{Pl}(0,21,0,22,0,1)_{38240}$$

$$\ell_{446} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1083415} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1083415} = \mathbf{Pl}(0,31,0,24,0,1)_{38376}$$

$$\ell_{447} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1082497} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1082497} = \mathbf{Pl}(0,3,0,30,0,1)_{38726}$$

$$\ell_{448} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1083010} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1083010} = \mathbf{Pl}(0,19,0,15,0,1)_{37797}$$

$$\ell_{449} = \begin{bmatrix} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1083056} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1083056} = \mathbf{Pl}(0,20,0,28,0,1)_{38617}$$

$$\ell_{450} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1083280} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1083280} = \mathbf{Pl}(0,27,0,21,0,1)_{38183}$$

$$\ell_{451} = \begin{bmatrix} 0 & 1 & \eta^{4} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082928} = \begin{bmatrix} 0 & 1 & 16 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082928} = \mathbf{Pl}(0,16,0,1,0,0)_{112}$$

$$\ell_{452} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1082412} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1082412} = \mathbf{Pl}(0,1,0,11,0,1)_{37527}$$

$$\ell_{453} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1082985} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1082985} = \mathbf{Pl}(0,18,0,23,0,1)_{38300}$$

$$\ell_{454} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{9} \end{bmatrix}_{1083318} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 26 \end{bmatrix}_{1083318} = \mathbf{Pl}(0,28,0,26,0,1)_{38499}$$

$$\ell_{455} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{25} \end{bmatrix}_{1082690} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 25 \end{bmatrix}_{1082690} = \mathbf{Pl}(0,9,0,25,0,1)_{38417}$$

$$\ell_{456} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1083148} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1083148} = \mathbf{Pl}(0,23,0,21,0,1)_{38179}$$

$$\ell_{457} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^8 \end{array}\right]_{1082843} = \left[\begin{array}{cccc} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 13 \end{array}\right]_{1082843} = \mathbf{Pl}(0,14,0,13,0,1)_{37666}$$

$$\ell_{458} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{16} \end{array}\right]_{1082791} = \left[\begin{array}{cccc} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 27 \end{array}\right]_{1082791} = \mathbf{Pl}(0,12,0,27,0,1)_{38546}$$

$$\ell_{459} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{24} \end{array}\right]_{1083124} = \left[\begin{array}{cccc} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 30 \end{array}\right]_{1083124} = \mathbf{Pl}(0,22,0,30,0,1)_{38745}$$

$$\ell_{460} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^2 \\ 0 & 0 & 1 & \eta^{29} \end{array}\right]_{1082509} = \left[\begin{array}{cccc} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 9 \end{array}\right]_{1082509} = \mathbf{Pl}(0,4,0,9,0,1)_{37404}$$

$$\ell_{461} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{21} \end{array}\right]_{1083217} = \left[\begin{array}{cccc} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 24 \end{array}\right]_{1083217} = \mathbf{Pl}(0,25,0,24,0,1)_{38370}$$

$$\ell_{462} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^4 \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082897} = \left[\begin{array}{cccc} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082897} = \mathbf{Pl}(0,16,0,1,0,1)_{36912}$$

$$\ell_{463} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^7 \end{array}\right]_{1082619} = \left[\begin{array}{cccc} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 20 \end{array}\right]_{1082619} = \mathbf{Pl}(0,7,0,20,0,1)_{38100}$$

$$\ell_{464} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{19} \end{array}\right]_{1082869} = \left[\begin{array}{cccc} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 6 \end{array}\right]_{1082869} = \mathbf{Pl}(0,15,0,6,0,1)_{37226}$$

$$\ell_{465} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{15} \end{array}\right]_{1082597} = \left[\begin{array}{cccc} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 31 \end{array}\right]_{1082597} = \mathbf{Pl}(0,6,0,31,0,1)_{38792}$$

$$\ell_{466} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^8 \\ 0 & 0 & 1 & \eta^4 \end{array}\right]_{1082813} = \left[\begin{array}{cccc} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 16 \end{array}\right]_{1082813} = \mathbf{Pl}(0,13,0,16,0,1)_{37854}$$

$$\ell_{467} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{23} \end{array}\right]_{1082746} = \left[\begin{array}{cccc} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 15 \end{array}\right]_{1082746} = \mathbf{Pl}(0,11,0,15,0,1)_{37789}$$

$$\ell_{468} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{17} \end{array}\right]_{1083179} = \left[\begin{array}{cccc} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 19 \end{array}\right]_{1083179} = \mathbf{Pl}(0,24,0,19,0,1)_{38054}$$

$$\ell_{469} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{28} \end{array}\right]_{1082456} = \left[\begin{array}{cccc} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 22 \end{array}\right]_{1082456} = \mathbf{Pl}(0,2,0,22,0,1)_{38221}$$

$$\ell_{470} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{10} \end{array}\right]_{1083342} = \left[\begin{array}{cccc} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 17 \end{array}\right]_{1083342} = \mathbf{Pl}(0,29,0,17,0,1)_{37933}$$

$$\ell_{471} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{20} \end{array}\right]_{1083370} = \left[\begin{array}{cccc} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 12 \end{array}\right]_{1083370} = \mathbf{Pl}(0,30,0,12,0,1)_{37619}$$

$$\ell_{472} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^9 \\ 0 & 0 & 1 & \eta^5 \end{array}\right]_{1083231} = \left[\begin{array}{cccc} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 5 \end{array}\right]_{1083231} = \mathbf{Pl}(0,26,0,5,0,1)_{37174}$$

$$\ell_{473} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^3 \\ 0 & 0 & 1 & \eta^{30} \end{array}\right]_{1082650} = \left[\begin{array}{cccc} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 18 \end{array}\right]_{1082650} = \mathbf{Pl}(0,8,0,18,0,1)_{37975}$$

$$\ell_{474} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^5 \\ 0 & 0 & 1 & \eta \end{array}\right]_{1082535} = \left[\begin{array}{cccc} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 2 \end{array}\right]_{1082535} = \mathbf{Pl}(0,5,0,2,0,1)_{36964}$$

$$\ell_{475} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^6 \end{array}\right]_{1082939} = \left[\begin{array}{cccc} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 10 \end{array}\right]_{1082939} = \mathbf{Pl}(0,17,0,10,0,1)_{37480}$$

$$\ell_{476} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^6 \\ 0 & 0 & 1 & \eta^2 \end{array}\right]_{1082702} = \left[\begin{array}{cccc} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 4 \end{array}\right]_{1082702} = \mathbf{Pl}(0,10,0,4,0,1)_{37095}$$

$$\ell_{477} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{18} \end{array}\right]_{1083064} = \left[\begin{array}{cccc} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 3 \end{array}\right]_{1083064} = \mathbf{Pl}(0,21,0,3,0,1)_{37043}$$

$$\ell_{478} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1083398} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1083398} = \mathbf{Pl}(0,31,0,7,0,1)_{37305}$$

$$\ell_{479} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{14} \end{bmatrix}_{1082496} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 29 \end{bmatrix}_{1082496} = \mathbf{Pl}(0,3,0,29,0,1)_{38663}$$

$$\ell_{480} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1083023} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1083023} = \mathbf{Pl}(0,19,0,28,0,1)_{38616}$$

$$\ell_{481} = \begin{bmatrix} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{3} \end{bmatrix}_{1083036} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1083036} = \mathbf{Pl}(0,20,0,8,0,1)_{37357}$$

$$\ell_{482} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1083273} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1083273} = \mathbf{Pl}(0,27,0,14,0,1)_{37742}$$

$$\ell_{483} = \begin{bmatrix} 0 & 1 & \eta^{11} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082631} = \begin{bmatrix} 0 & 1 & 7 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082631} = \mathbf{Pl}(0,7,0,1,0,0)_{103}$$

$$\ell_{484} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1082413} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1082413} = \mathbf{Pl}(0,1,0,12,0,1)_{37590}$$

$$\ell_{485} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{19} \end{bmatrix}_{1082968} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{1082968} = \mathbf{Pl}(0,18,0,6,0,1)_{37229}$$

$$\ell_{486} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{2} \end{bmatrix}_{1083296} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1083296} = \mathbf{Pl}(0,28,0,4,0,1)_{37113}$$

$$\ell_{487} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1082668} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1082668} = \mathbf{Pl}(0,9,0,3,0,1)_{37031}$$

$$\ell_{488} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1083158} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1083158} = \mathbf{Pl}(0,23,0,31,0,1)_{38809}$$

$$\ell_{489} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1082832} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1082832} = \mathbf{Pl}(0,14,0,2,0,1)_{36973}$$

$$\ell_{490} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{9} \end{bmatrix}_{1082790} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 26 \end{bmatrix}_{1082790} = \mathbf{Pl}(0,12,0,26,0,1)_{38483}$$

$$\ell_{491} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1083113} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1083113} = \mathbf{Pl}(0,22,0,19,0,1)_{38052}$$

$$\ell_{492} = \begin{bmatrix} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1082521} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1082521} = \mathbf{Pl}(0,4,0,21,0,1)_{38160}$$

$$\ell_{493} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{14} \end{bmatrix}_{1083222} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 29 \end{bmatrix}_{1083222} = \mathbf{Pl}(0,25,0,29,0,1)_{38685}$$

$$\ell_{494} = \begin{bmatrix} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1082926} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1082926} = \mathbf{Pl}(0,16,0,30,0,1)_{38739}$$

$$\ell_{495} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082600} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082600} = \mathbf{Pl}(0,7,0,1,0,1)_{36903}$$

$$\ell_{496} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1082877} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1082877} = \mathbf{Pl}(0,15,0,14,0,1)_{37730}$$

$$\ell_{497} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{8} \end{bmatrix}_{1082579} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1082579} = \mathbf{Pl}(0,6,0,13,0,1)_{37658}$$

$$\ell_{498} = \begin{bmatrix} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1082819} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1082819} = \mathbf{Pl}(0,13,0,22,0,1)_{38232}$$

$$\ell_{499} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{16} \end{array}\right]_{1082758} = \left[\begin{array}{cccc} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 27 \end{array}\right]_{1082758} = \mathbf{Pl}(0,11,0,27,0,1)_{38545}$$

$$\ell_{500} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{10} \end{array}\right]_{1083177} = \left[\begin{array}{cccc} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 17 \end{array}\right]_{1083177} = \mathbf{Pl}(0,24,0,17,0,1)_{37928}$$

$$\ell_{501} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{21} \end{array}\right]_{1082458} = \left[\begin{array}{cccc} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 24 \end{array}\right]_{1082458} = \mathbf{Pl}(0,2,0,24,0,1)_{38347}$$

$$\ell_{502} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{3} \end{array}\right]_{1083333} = \left[\begin{array}{cccc} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 8 \end{array}\right]_{1083333} = \mathbf{Pl}(0,29,0,8,0,1)_{37366}$$

$$\ell_{503} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{13} \end{array}\right]_{1083386} = \left[\begin{array}{cccc} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 28 \end{array}\right]_{1083386} = \mathbf{Pl}(0,30,0,28,0,1)_{38627}$$

$$\ell_{504} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{29} \end{array}\right]_{1083235} = \left[\begin{array}{cccc} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 9 \end{array}\right]_{1083235} = \mathbf{Pl}(0,26,0,9,0,1)_{37426}$$

$$\ell_{505} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{23} \end{array}\right]_{1082647} = \left[\begin{array}{cccc} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 15 \end{array}\right]_{1082647} = \mathbf{Pl}(0,8,0,15,0,1)_{37786}$$

$$\ell_{506} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{25} \end{array}\right]_{1082558} = \left[\begin{array}{cccc} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 25 \end{array}\right]_{1082558} = \mathbf{Pl}(0,5,0,25,0,1)_{38413}$$

$$\ell_{507} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{30} \end{array}\right]_{1082947} = \left[\begin{array}{cccc} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 18 \end{array}\right]_{1082947} = \mathbf{Pl}(0,17,0,18,0,1)_{37984}$$

$$\ell_{508} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{26} \end{array}\right]_{1082721} = \left[\begin{array}{cccc} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 23 \end{array}\right]_{1082721} = \mathbf{Pl}(0,10,0,23,0,1)_{38292}$$

$$\ell_{509} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{11} \end{array}\right]_{1083068} = \left[\begin{array}{cccc} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 7 \end{array}\right]_{1083068} = \mathbf{Pl}(0,21,0,7,0,1)_{37295}$$

$$\ell_{510} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{4} \end{array}\right]_{1083407} = \left[\begin{array}{cccc} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 16 \end{array}\right]_{1083407} = \mathbf{Pl}(0,31,0,16,0,1)_{37872}$$

$$\ell_{511} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{7} \end{array}\right]_{1082487} = \left[\begin{array}{cccc} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 20 \end{array}\right]_{1082487} = \mathbf{Pl}(0,3,0,20,0,1)_{38096}$$

$$\ell_{512} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{6} \end{array}\right]_{1083005} = \left[\begin{array}{cccc} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 10 \end{array}\right]_{1083005} = \mathbf{Pl}(0,19,0,10,0,1)_{37482}$$

$$\ell_{513} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{27} \end{array}\right]_{1083039} = \left[\begin{array}{cccc} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 11 \end{array}\right]_{1083039} = \mathbf{Pl}(0,20,0,11,0,1)_{37546}$$

$$\ell_{514} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{5} \end{array}\right]_{1083264} = \left[\begin{array}{cccc} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 5 \end{array}\right]_{1083264} = \mathbf{Pl}(0,27,0,5,0,1)_{37175}$$

$$\ell_{515} = \left[\begin{array}{cccc} 0 & 1 & \eta^{23} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082895} = \left[\begin{array}{cccc} 0 & 1 & 15 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082895} = \mathbf{Pl}(0,15,0,1,0,0)_{111}$$

$$\ell_{516} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{8} \end{array}\right]_{1082414} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 13 \end{array}\right]_{1082414} = \mathbf{Pl}(0,1,0,13,0,1)_{37653}$$

$$\ell_{517} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{7} \end{array}\right]_{1082982} = \left[\begin{array}{cccc} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 20 \end{array}\right]_{1082982} = \mathbf{Pl}(0,18,0,20,0,1)_{38111}$$

$$\ell_{518} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{21} \end{array}\right]_{1083316} = \left[\begin{array}{cccc} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 24 \end{array}\right]_{1083316} = \mathbf{Pl}(0,28,0,24,0,1)_{38373}$$

$$\ell_{519} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{6} \end{array}\right]_{1082675} = \left[\begin{array}{cccc} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 10 \end{array}\right]_{1082675} = \mathbf{Pl}(0,9,0,10,0,1)_{37472}$$

$$\ell_{520} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{3} \end{bmatrix}_{1083135} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1083135} = \mathbf{Pl}(0, 23, 0, 8, 0, 1)_{37360}$$

$$\ell_{521} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1082842} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1082842} = \mathbf{Pl}(0, 14, 0, 12, 0, 1)_{37603}$$

$$\ell_{522} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1082786} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1082786} = \mathbf{Pl}(0, 12, 0, 22, 0, 1)_{38231}$$

$$\ell_{523} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{5} \end{bmatrix}_{1083099} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1083099} = \mathbf{Pl}(0, 22, 0, 5, 0, 1)_{37170}$$

$$\ell_{524} = \begin{bmatrix} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1082517} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1082517} = \mathbf{Pl}(0, 4, 0, 17, 0, 1)_{37908}$$

$$\ell_{525} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{2} \end{bmatrix}_{1083197} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1083197} = \mathbf{Pl}(0, 25, 0, 4, 0, 1)_{37110}$$

$$\ell_{526} = \begin{bmatrix} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1082910} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1082910} = \mathbf{Pl}(0, 16, 0, 14, 0, 1)_{37731}$$

$$\ell_{527} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{19} \end{bmatrix}_{1082605} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{1082605} = \mathbf{Pl}(0, 7, 0, 6, 0, 1)_{37218}$$

$$\ell_{528} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082864} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082864} = \mathbf{Pl}(0, 15, 0, 1, 0, 1)_{36911}$$

$$\ell_{529} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1082577} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1082577} = \mathbf{Pl}(0, 6, 0, 11, 0, 1)_{37532}$$

$$\ell_{530} = \begin{bmatrix} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1082824} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1082824} = \mathbf{Pl}(0, 13, 0, 27, 0, 1)_{38547}$$

$$\ell_{531} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{4} \end{bmatrix}_{1082747} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1082747} = \mathbf{Pl}(0, 11, 0, 16, 0, 1)_{37852}$$

$$\ell_{532} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1083169} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1083169} = \mathbf{Pl}(0, 24, 0, 9, 0, 1)_{37424}$$

$$\ell_{533} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{9} \end{bmatrix}_{1082460} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 26 \end{bmatrix}_{1082460} = \mathbf{Pl}(0, 2, 0, 26, 0, 1)_{38473}$$

$$\ell_{534} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1083346} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1083346} = \mathbf{Pl}(0, 29, 0, 21, 0, 1)_{38185}$$

$$\ell_{535} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1083360} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1083360} = \mathbf{Pl}(0, 30, 0, 2, 0, 1)_{36989}$$

$$\ell_{536} = \begin{bmatrix} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1083245} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1083245} = \mathbf{Pl}(0, 26, 0, 19, 0, 1)_{38056}$$

$$\ell_{537} = \begin{bmatrix} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1082639} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1082639} = \mathbf{Pl}(0, 8, 0, 7, 0, 1)_{37282}$$

$$\ell_{538} = \begin{bmatrix} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1082561} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1082561} = \mathbf{Pl}(0, 5, 0, 28, 0, 1)_{38602}$$

$$\ell_{539} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1082932} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1082932} = \mathbf{Pl}(0, 17, 0, 3, 0, 1)_{37039}$$

$$\ell_{540} = \begin{bmatrix} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{14} \end{bmatrix}_{1082727} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 29 \end{bmatrix}_{1082727} = \mathbf{Pl}(0, 10, 0, 29, 0, 1)_{38670}$$

$$\ell_{541} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1083079} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1083079} = \mathbf{Pl}(0,21,0,18,0,1)_{37988}$$

$$\ell_{542} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1083406} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1083406} = \mathbf{Pl}(0,31,0,15,0,1)_{37809}$$

$$\ell_{543} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1082490} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1082490} = \mathbf{Pl}(0,3,0,23,0,1)_{38285}$$

$$\ell_{544} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{25} \end{bmatrix}_{1083020} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 25 \end{bmatrix}_{1083020} = \mathbf{Pl}(0,19,0,25,0,1)_{38427}$$

$$\ell_{545} = \begin{bmatrix} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1083059} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1083059} = \mathbf{Pl}(0,20,0,31,0,1)_{38806}$$

$$\ell_{546} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1083289} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1083289} = \mathbf{Pl}(0,27,0,30,0,1)_{38750}$$

$$\ell_{547} = \begin{bmatrix} 0 & 1 & \eta^{19} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082598} = \begin{bmatrix} 0 & 1 & 6 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082598} = \mathbf{Pl}(0,6,0,1,0,0)_{102}$$

$$\ell_{548} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1082415} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1082415} = \mathbf{Pl}(0,1,0,14,0,1)_{37716}$$

$$\ell_{549} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1082969} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1082969} = \mathbf{Pl}(0,18,0,7,0,1)_{37292}$$

$$\ell_{550} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{25} \end{bmatrix}_{1083317} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 25 \end{bmatrix}_{1083317} = \mathbf{Pl}(0,28,0,25,0,1)_{38436}$$

$$\ell_{551} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1082682} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1082682} = \mathbf{Pl}(0,9,0,17,0,1)_{37913}$$

$$\ell_{552} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{7} \end{bmatrix}_{1083147} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 20 \end{bmatrix}_{1083147} = \mathbf{Pl}(0,23,0,20,0,1)_{38116}$$

$$\ell_{553} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1082860} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1082860} = \mathbf{Pl}(0,14,0,30,0,1)_{38737}$$

$$\ell_{554} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1082766} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1082766} = \mathbf{Pl}(0,12,0,2,0,1)_{36971}$$

$$\ell_{555} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{9} \end{bmatrix}_{1083120} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 26 \end{bmatrix}_{1083120} = \mathbf{Pl}(0,22,0,26,0,1)_{38493}$$

$$\ell_{556} = \begin{bmatrix} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{14} \end{bmatrix}_{1082529} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 29 \end{bmatrix}_{1082529} = \mathbf{Pl}(0,4,0,29,0,1)_{38664}$$

$$\ell_{557} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{6} \end{bmatrix}_{1083203} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1083203} = \mathbf{Pl}(0,25,0,10,0,1)_{37488}$$

$$\ell_{558} = \begin{bmatrix} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1082923} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1082923} = \mathbf{Pl}(0,16,0,27,0,1)_{38550}$$

$$\ell_{559} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1082614} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1082614} = \mathbf{Pl}(0,7,0,15,0,1)_{37785}$$

$$\ell_{560} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{4} \end{bmatrix}_{1082879} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1082879} = \mathbf{Pl}(0,15,0,16,0,1)_{37856}$$

$$\ell_{561} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082567} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082567} = \mathbf{Pl}(0,6,0,1,0,1)_{36902}$$

$$\ell_{562} = \begin{bmatrix} 0 & 1 & 0 & \eta^8 \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1082809} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1082809} = \mathbf{Pl}(0,13,0,12,0,1)_{37602}$$

$$\ell_{563} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^8 \end{bmatrix}_{1082744} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1082744} = \mathbf{Pl}(0,11,0,13,0,1)_{37663}$$

$$\ell_{564} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^2 \end{bmatrix}_{1083164} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1083164} = \mathbf{Pl}(0,24,0,4,0,1)_{37109}$$

$$\ell_{565} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1082462} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1082462} = \mathbf{Pl}(0,2,0,28,0,1)_{38599}$$

$$\ell_{566} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1083348} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1083348} = \mathbf{Pl}(0,29,0,23,0,1)_{38311}$$

$$\ell_{567} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^5 \end{bmatrix}_{1083363} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1083363} = \mathbf{Pl}(0,30,0,5,0,1)_{37178}$$

$$\ell_{568} = \begin{bmatrix} 0 & 1 & 0 & \eta^9 \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1083250} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1083250} = \mathbf{Pl}(0,26,0,24,0,1)_{38371}$$

$$\ell_{569} = \begin{bmatrix} 0 & 1 & 0 & \eta^3 \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1082663} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1082663} = \mathbf{Pl}(0,8,0,31,0,1)_{38794}$$

$$\ell_{570} = \begin{bmatrix} 0 & 1 & 0 & \eta^5 \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1082552} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1082552} = \mathbf{Pl}(0,5,0,19,0,1)_{38035}$$

$$\ell_{571} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1082950} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1082950} = \mathbf{Pl}(0,17,0,21,0,1)_{38173}$$

$$\ell_{572} = \begin{bmatrix} 0 & 1 & 0 & \eta^6 \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1082701} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1082701} = \mathbf{Pl}(0,10,0,3,0,1)_{37032}$$

$$\ell_{573} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^3 \end{bmatrix}_{1083069} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1083069} = \mathbf{Pl}(0,21,0,8,0,1)_{37358}$$

$$\ell_{574} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1083402} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1083402} = \mathbf{Pl}(0,31,0,11,0,1)_{37557}$$

$$\ell_{575} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1082485} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1082485} = \mathbf{Pl}(0,3,0,18,0,1)_{37970}$$

$$\ell_{576} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1083004} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1083004} = \mathbf{Pl}(0,19,0,9,0,1)_{37419}$$

$$\ell_{577} = \begin{bmatrix} 0 & 1 & 0 & \eta^7 \\ 0 & 0 & 1 & \eta^{19} \end{bmatrix}_{1083034} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{1083034} = \mathbf{Pl}(0,20,0,6,0,1)_{37231}$$

$$\ell_{578} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1083281} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1083281} = \mathbf{Pl}(0,27,0,22,0,1)_{38246}$$

$$\ell_{579} = \begin{bmatrix} 0 & 1 & \eta^8 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082829} = \begin{bmatrix} 0 & 1 & 13 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082829} = \mathbf{Pl}(0,13,0,1,0,0)_{109}$$

$$\ell_{580} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1082416} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1082416} = \mathbf{Pl}(0,1,0,15,0,1)_{37779}$$

$$\ell_{581} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1082983} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1082983} = \mathbf{Pl}(0,18,0,21,0,1)_{38174}$$

$$\ell_{582} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^5 \end{bmatrix}_{1083297} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1083297} = \mathbf{Pl}(0,28,0,5,0,1)_{37176}$$

$$\ell_{583} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1082689} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1082689} = \mathbf{Pl}(0,9,0,24,0,1)_{38354}$$

$$\ell_{584} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1083130} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1083130} = \mathbf{Pl}(0,23,0,3,0,1)_{37045}$$

$$\ell_{585} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{4} \end{bmatrix}_{1082846} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1082846} = \mathbf{Pl}(0,14,0,16,0,1)_{37855}$$

$$\ell_{586} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1082778} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1082778} = \mathbf{Pl}(0,12,0,14,0,1)_{37727}$$

$$\ell_{587} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1083106} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1083106} = \mathbf{Pl}(0,22,0,12,0,1)_{37611}$$

$$\ell_{588} = \begin{bmatrix} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{25} \end{bmatrix}_{1082525} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 25 \end{bmatrix}_{1082525} = \mathbf{Pl}(0,4,0,25,0,1)_{38412}$$

$$\ell_{589} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1083212} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1083212} = \mathbf{Pl}(0,25,0,19,0,1)_{38055}$$

$$\ell_{590} = \begin{bmatrix} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1082907} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1082907} = \mathbf{Pl}(0,16,0,11,0,1)_{37542}$$

$$\ell_{591} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{3} \end{bmatrix}_{1082607} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1082607} = \mathbf{Pl}(0,7,0,8,0,1)_{37344}$$

$$\ell_{592} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1082894} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1082894} = \mathbf{Pl}(0,15,0,31,0,1)_{38801}$$

$$\ell_{593} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1082573} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1082573} = \mathbf{Pl}(0,6,0,7,0,1)_{37280}$$

$$\ell_{594} = \begin{bmatrix} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082798} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082798} = \mathbf{Pl}(0,13,0,1,0,1)_{36909}$$

$$\ell_{595} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{19} \end{bmatrix}_{1082737} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{1082737} = \mathbf{Pl}(0,11,0,6,0,1)_{37222}$$

$$\ell_{596} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1083188} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1083188} = \mathbf{Pl}(0,24,0,28,0,1)_{38621}$$

$$\ell_{597} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1082464} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1082464} = \mathbf{Pl}(0,2,0,30,0,1)_{38725}$$

$$\ell_{598} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{6} \end{bmatrix}_{1083335} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1083335} = \mathbf{Pl}(0,29,0,10,0,1)_{37492}$$

$$\ell_{599} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1083385} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1083385} = \mathbf{Pl}(0,30,0,27,0,1)_{38564}$$

$$\ell_{600} = \begin{bmatrix} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1083228} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1083228} = \mathbf{Pl}(0,26,0,2,0,1)_{36985}$$

$$\ell_{601} = \begin{bmatrix} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1082655} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1082655} = \mathbf{Pl}(0,8,0,23,0,1)_{38290}$$

$$\ell_{602} = \begin{bmatrix} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1082555} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1082555} = \mathbf{Pl}(0,5,0,22,0,1)_{38224}$$

$$\ell_{603} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{2} \end{bmatrix}_{1082933} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1082933} = \mathbf{Pl}(0,17,0,4,0,1)_{37102}$$

$$\ell_{604} = \begin{bmatrix} 0 & 1 & 0 & \eta^6 \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1082707} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1082707} = \mathbf{Pl}(0,10,0,9,0,1)_{37410}$$

$$\ell_{605} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{14} \end{bmatrix}_{1083090} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 29 \end{bmatrix}_{1083090} = \mathbf{Pl}(0,21,0,29,0,1)_{38681}$$

$$\ell_{606} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^7 \end{bmatrix}_{1083411} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 20 \end{bmatrix}_{1083411} = \mathbf{Pl}(0,31,0,20,0,1)_{38124}$$

$$\ell_{607} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1082484} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1082484} = \mathbf{Pl}(0,3,0,17,0,1)_{37907}$$

$$\ell_{608} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^9 \end{bmatrix}_{1083021} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 26 \end{bmatrix}_{1083021} = \mathbf{Pl}(0,19,0,26,0,1)_{38490}$$

$$\ell_{609} = \begin{bmatrix} 0 & 1 & 0 & \eta^7 \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1083046} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1083046} = \mathbf{Pl}(0,20,0,18,0,1)_{37987}$$

$$\ell_{610} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^8 \end{bmatrix}_{1083272} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1083272} = \mathbf{Pl}(0,27,0,13,0,1)_{37679}$$

$$\ell_{611} = \begin{bmatrix} 0 & 1 & \eta^{27} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082763} = \begin{bmatrix} 0 & 1 & 11 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082763} = \mathbf{Pl}(0,11,0,1,0,0)_{107}$$

$$\ell_{612} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^4 \end{bmatrix}_{1082417} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1082417} = \mathbf{Pl}(0,1,0,16,0,1)_{37842}$$

$$\ell_{613} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^3 \end{bmatrix}_{1082970} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1082970} = \mathbf{Pl}(0,18,0,8,0,1)_{37355}$$

$$\ell_{614} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1083311} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1083311} = \mathbf{Pl}(0,28,0,19,0,1)_{38058}$$

$$\ell_{615} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^2 \end{bmatrix}_{1082669} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1082669} = \mathbf{Pl}(0,9,0,4,0,1)_{37094}$$

$$\ell_{616} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1083145} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1083145} = \mathbf{Pl}(0,23,0,18,0,1)_{37990}$$

$$\ell_{617} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1082857} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1082857} = \mathbf{Pl}(0,14,0,27,0,1)_{38548}$$

$$\ell_{618} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1082794} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1082794} = \mathbf{Pl}(0,12,0,30,0,1)_{38735}$$

$$\ell_{619} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1083096} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1083096} = \mathbf{Pl}(0,22,0,2,0,1)_{36981}$$

$$\ell_{620} = \begin{bmatrix} 0 & 1 & 0 & \eta^2 \\ 0 & 0 & 1 & \eta^6 \end{bmatrix}_{1082510} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1082510} = \mathbf{Pl}(0,4,0,10,0,1)_{37467}$$

$$\ell_{621} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1083202} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1083202} = \mathbf{Pl}(0,25,0,9,0,1)_{37425}$$

$$\ell_{622} = \begin{bmatrix} 0 & 1 & 0 & \eta^4 \\ 0 & 0 & 1 & \eta^8 \end{bmatrix}_{1082909} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1082909} = \mathbf{Pl}(0,16,0,13,0,1)_{37668}$$

$$\ell_{623} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1082630} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1082630} = \mathbf{Pl}(0,7,0,31,0,1)_{38793}$$

$$\ell_{624} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1082874} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1082874} = \mathbf{Pl}(0,15,0,11,0,1)_{37541}$$

$$\ell_{625} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{23} \end{array}\right]_{1082581} = \left[\begin{array}{cccc} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 15 \end{array}\right]_{1082581} = \mathbf{Pl}(0,6,0,15,0,1)_{37784}$$

$$\ell_{626} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{12} \end{array}\right]_{1082811} = \left[\begin{array}{cccc} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 14 \end{array}\right]_{1082811} = \mathbf{Pl}(0,13,0,14,0,1)_{37728}$$

$$\ell_{627} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082732} = \left[\begin{array}{cccc} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082732} = \mathbf{Pl}(0,11,0,1,0,1)_{36907}$$

$$\ell_{628} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{25} \end{array}\right]_{1083185} = \left[\begin{array}{cccc} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 25 \end{array}\right]_{1083185} = \mathbf{Pl}(0,24,0,25,0,1)_{38432}$$

$$\ell_{629} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{5} \end{array}\right]_{1082439} = \left[\begin{array}{cccc} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 5 \end{array}\right]_{1082439} = \mathbf{Pl}(0,2,0,5,0,1)_{37150}$$

$$\ell_{630} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{18} \end{array}\right]_{1083328} = \left[\begin{array}{cccc} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 3 \end{array}\right]_{1083328} = \mathbf{Pl}(0,29,0,3,0,1)_{37051}$$

$$\ell_{631} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{28} \end{array}\right]_{1083380} = \left[\begin{array}{cccc} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 22 \end{array}\right]_{1083380} = \mathbf{Pl}(0,30,0,22,0,1)_{38249}$$

$$\ell_{632} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{13} \end{array}\right]_{1083254} = \left[\begin{array}{cccc} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 28 \end{array}\right]_{1083254} = \mathbf{Pl}(0,26,0,28,0,1)_{38623}$$

$$\ell_{633} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{7} \end{array}\right]_{1082652} = \left[\begin{array}{cccc} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 20 \end{array}\right]_{1082652} = \mathbf{Pl}(0,8,0,20,0,1)_{38101}$$

$$\ell_{634} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{9} \end{array}\right]_{1082559} = \left[\begin{array}{cccc} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 26 \end{array}\right]_{1082559} = \mathbf{Pl}(0,5,0,26,0,1)_{38476}$$

$$\ell_{635} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{14} \end{array}\right]_{1082958} = \left[\begin{array}{cccc} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 29 \end{array}\right]_{1082958} = \mathbf{Pl}(0,17,0,29,0,1)_{38677}$$

$$\ell_{636} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{10} \end{array}\right]_{1082715} = \left[\begin{array}{cccc} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 17 \end{array}\right]_{1082715} = \mathbf{Pl}(0,10,0,17,0,1)_{37914}$$

$$\ell_{637} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{26} \end{array}\right]_{1083084} = \left[\begin{array}{cccc} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 23 \end{array}\right]_{1083084} = \mathbf{Pl}(0,21,0,23,0,1)_{38303}$$

$$\ell_{638} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{19} \end{array}\right]_{1083397} = \left[\begin{array}{cccc} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 6 \end{array}\right]_{1083397} = \mathbf{Pl}(0,31,0,6,0,1)_{37242}$$

$$\ell_{639} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{22} \end{array}\right]_{1082488} = \left[\begin{array}{cccc} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 21 \end{array}\right]_{1082488} = \mathbf{Pl}(0,3,0,21,0,1)_{38159}$$

$$\ell_{640} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{21} \end{array}\right]_{1083019} = \left[\begin{array}{cccc} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 24 \end{array}\right]_{1083019} = \mathbf{Pl}(0,19,0,24,0,1)_{38364}$$

$$\ell_{641} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{11} \end{array}\right]_{1083035} = \left[\begin{array}{cccc} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 7 \end{array}\right]_{1083035} = \mathbf{Pl}(0,20,0,7,0,1)_{37294}$$

$$\ell_{642} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{20} \end{array}\right]_{1083271} = \left[\begin{array}{cccc} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 12 \end{array}\right]_{1083271} = \mathbf{Pl}(0,27,0,12,0,1)_{37616}$$

$$\ell_{643} = \left[\begin{array}{cccc} 0 & 1 & \eta^{21} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1083192} = \left[\begin{array}{cccc} 0 & 1 & 24 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1083192} = \mathbf{Pl}(0,24,0,1,0,0)_{120}$$

$$\ell_{644} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{10} \end{array}\right]_{1082418} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 17 \end{array}\right]_{1082418} = \mathbf{Pl}(0,1,0,17,0,1)_{37905}$$

$$\ell_{645} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{9} \end{array}\right]_{1082988} = \left[\begin{array}{cccc} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 26 \end{array}\right]_{1082988} = \mathbf{Pl}(0,18,0,26,0,1)_{38489}$$

$$\ell_{646} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{23} \end{array}\right]_{1083307} = \left[\begin{array}{cccc} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 15 \end{array}\right]_{1083307} = \mathbf{Pl}(0,28,0,15,0,1)_{37806}$$

$$\ell_{647} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{8} \end{array}\right]_{1082678} = \left[\begin{array}{cccc} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 13 \end{array}\right]_{1082678} = \mathbf{Pl}(0,9,0,13,0,1)_{37661}$$

$$\ell_{648} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{5} \end{array}\right]_{1083132} = \left[\begin{array}{cccc} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 5 \end{array}\right]_{1083132} = \mathbf{Pl}(0,23,0,5,0,1)_{37171}$$

$$\ell_{649} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{22} \end{array}\right]_{1082851} = \left[\begin{array}{cccc} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 21 \end{array}\right]_{1082851} = \mathbf{Pl}(0,14,0,21,0,1)_{38170}$$

$$\ell_{650} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{30} \end{array}\right]_{1082782} = \left[\begin{array}{cccc} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 18 \end{array}\right]_{1082782} = \mathbf{Pl}(0,12,0,18,0,1)_{37979}$$

$$\ell_{651} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{7} \end{array}\right]_{1083114} = \left[\begin{array}{cccc} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 20 \end{array}\right]_{1083114} = \mathbf{Pl}(0,22,0,20,0,1)_{38115}$$

$$\ell_{652} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{12} \end{array}\right]_{1082514} = \left[\begin{array}{cccc} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 14 \end{array}\right]_{1082514} = \mathbf{Pl}(0,4,0,14,0,1)_{37719}$$

$$\ell_{653} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{4} \end{array}\right]_{1083209} = \left[\begin{array}{cccc} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 16 \end{array}\right]_{1083209} = \mathbf{Pl}(0,25,0,16,0,1)_{37866}$$

$$\ell_{654} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{14} \end{array}\right]_{1082925} = \left[\begin{array}{cccc} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 29 \end{array}\right]_{1082925} = \mathbf{Pl}(0,16,0,29,0,1)_{38676}$$

$$\ell_{655} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{21} \end{array}\right]_{1082623} = \left[\begin{array}{cccc} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 24 \end{array}\right]_{1082623} = \mathbf{Pl}(0,7,0,24,0,1)_{38352}$$

$$\ell_{656} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{2} \end{array}\right]_{1082867} = \left[\begin{array}{cccc} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 4 \end{array}\right]_{1082867} = \mathbf{Pl}(0,15,0,4,0,1)_{37100}$$

$$\ell_{657} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{29} \end{array}\right]_{1082575} = \left[\begin{array}{cccc} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 9 \end{array}\right]_{1082575} = \mathbf{Pl}(0,6,0,9,0,1)_{37406}$$

$$\ell_{658} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{18} \end{array}\right]_{1082800} = \left[\begin{array}{cccc} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 3 \end{array}\right]_{1082800} = \mathbf{Pl}(0,13,0,3,0,1)_{37035}$$

$$\ell_{659} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{6} \end{array}\right]_{1082741} = \left[\begin{array}{cccc} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 10 \end{array}\right]_{1082741} = \mathbf{Pl}(0,11,0,10,0,1)_{37474}$$

$$\ell_{660} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & 1 \end{array}\right]_{1083161} = \left[\begin{array}{cccc} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 1 \end{array}\right]_{1083161} = \mathbf{Pl}(0,24,0,1,0,1)_{36920}$$

$$\ell_{661} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{11} \end{array}\right]_{1082441} = \left[\begin{array}{cccc} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 7 \end{array}\right]_{1082441} = \mathbf{Pl}(0,2,0,7,0,1)_{37276}$$

$$\ell_{662} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{24} \end{array}\right]_{1083355} = \left[\begin{array}{cccc} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 30 \end{array}\right]_{1083355} = \mathbf{Pl}(0,29,0,30,0,1)_{38752}$$

$$\ell_{663} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{3} \end{array}\right]_{1083366} = \left[\begin{array}{cccc} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 8 \end{array}\right]_{1083366} = \mathbf{Pl}(0,30,0,8,0,1)_{37367}$$

$$\ell_{664} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{19} \end{array}\right]_{1083232} = \left[\begin{array}{cccc} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 6 \end{array}\right]_{1083232} = \mathbf{Pl}(0,26,0,6,0,1)_{37237}$$

$$\ell_{665} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{13} \end{array}\right]_{1082660} = \left[\begin{array}{cccc} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 28 \end{array}\right]_{1082660} = \mathbf{Pl}(0,8,0,28,0,1)_{38605}$$

$$\ell_{666} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{15} \end{array}\right]_{1082564} = \left[\begin{array}{cccc} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 31 \end{array}\right]_{1082564} = \mathbf{Pl}(0,5,0,31,0,1)_{38791}$$

$$\ell_{667} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{20} \end{array}\right]_{1082941} = \left[\begin{array}{cccc} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 12 \end{array}\right]_{1082941} = \mathbf{Pl}(0,17,0,12,0,1)_{37606}$$

$$\ell_{668} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{16} \end{array}\right]_{1082725} = \left[\begin{array}{cccc} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 27 \end{array}\right]_{1082725} = \mathbf{Pl}(0,10,0,27,0,1)_{38544}$$

$$\ell_{669} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta \end{array}\right]_{1083063} = \left[\begin{array}{cccc} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 2 \end{array}\right]_{1083063} = \mathbf{Pl}(0,21,0,2,0,1)_{36980}$$

$$\ell_{670} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{25} \end{array}\right]_{1083416} = \left[\begin{array}{cccc} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 25 \end{array}\right]_{1083416} = \mathbf{Pl}(0,31,0,25,0,1)_{38439}$$

$$\ell_{671} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{28} \end{array}\right]_{1082489} = \left[\begin{array}{cccc} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 22 \end{array}\right]_{1082489} = \mathbf{Pl}(0,3,0,22,0,1)_{38222}$$

$$\ell_{672} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{27} \end{array}\right]_{1083006} = \left[\begin{array}{cccc} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 11 \end{array}\right]_{1083006} = \mathbf{Pl}(0,19,0,11,0,1)_{37545}$$

$$\ell_{673} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{17} \end{array}\right]_{1083047} = \left[\begin{array}{cccc} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 19 \end{array}\right]_{1083047} = \mathbf{Pl}(0,20,0,19,0,1)_{38050}$$

$$\ell_{674} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{26} \end{array}\right]_{1083282} = \left[\begin{array}{cccc} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 23 \end{array}\right]_{1083282} = \mathbf{Pl}(0,27,0,23,0,1)_{38309}$$

$$\ell_{675} = \left[\begin{array}{cccc} 0 & 1 & \eta & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082466} = \left[\begin{array}{cccc} 0 & 1 & 2 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082466} = \mathbf{Pl}(0,2,0,1,0,0)_{98}$$

$$\ell_{676} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{30} \end{array}\right]_{1082419} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 18 \end{array}\right]_{1082419} = \mathbf{Pl}(0,1,0,18,0,1)_{37968}$$

$$\ell_{677} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{29} \end{array}\right]_{1082971} = \left[\begin{array}{cccc} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 9 \end{array}\right]_{1082971} = \mathbf{Pl}(0,18,0,9,0,1)_{37418}$$

$$\ell_{678} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{12} \end{array}\right]_{1083306} = \left[\begin{array}{cccc} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 14 \end{array}\right]_{1083306} = \mathbf{Pl}(0,28,0,14,0,1)_{37743}$$

$$\ell_{679} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{28} \end{array}\right]_{1082687} = \left[\begin{array}{cccc} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 22 \end{array}\right]_{1082687} = \mathbf{Pl}(0,9,0,22,0,1)_{38228}$$

$$\ell_{680} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{25} \end{array}\right]_{1083152} = \left[\begin{array}{cccc} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 25 \end{array}\right]_{1083152} = \mathbf{Pl}(0,23,0,25,0,1)_{38431}$$

$$\ell_{681} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{11} \end{array}\right]_{1082837} = \left[\begin{array}{cccc} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 7 \end{array}\right]_{1082837} = \mathbf{Pl}(0,14,0,7,0,1)_{37288}$$

$$\ell_{682} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{19} \end{array}\right]_{1082770} = \left[\begin{array}{cccc} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 6 \end{array}\right]_{1082770} = \mathbf{Pl}(0,12,0,6,0,1)_{37223}$$

$$\ell_{683} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{27} \end{array}\right]_{1083105} = \left[\begin{array}{cccc} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 11 \end{array}\right]_{1083105} = \mathbf{Pl}(0,22,0,11,0,1)_{37548}$$

$$\ell_{684} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta \end{array}\right]_{1082502} = \left[\begin{array}{cccc} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 2 \end{array}\right]_{1082502} = \mathbf{Pl}(0,4,0,2,0,1)_{36963}$$

$$\ell_{685} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{24} \end{array}\right]_{1083223} = \left[\begin{array}{cccc} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 30 \end{array}\right]_{1083223} = \mathbf{Pl}(0,25,0,30,0,1)_{38748}$$

$$\ell_{686} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{3} \end{array}\right]_{1082904} = \left[\begin{array}{cccc} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 8 \end{array}\right]_{1082904} = \mathbf{Pl}(0,16,0,8,0,1)_{37353}$$

$$\ell_{687} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{10} \end{array}\right]_{1082616} = \left[\begin{array}{cccc} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 17 \end{array}\right]_{1082616} = \mathbf{Pl}(0,7,0,17,0,1)_{37911}$$

$$\ell_{688} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{22} \end{array}\right]_{1082884} = \left[\begin{array}{cccc} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 21 \end{array}\right]_{1082884} = \mathbf{Pl}(0,15,0,21,0,1)_{38171}$$

$$\ell_{689} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{18} \end{array}\right]_{1082569} = \left[\begin{array}{cccc} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 3 \end{array}\right]_{1082569} = \mathbf{Pl}(0,6,0,3,0,1)_{37028}$$

$$\ell_{690} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{7} \end{array}\right]_{1082817} = \left[\begin{array}{cccc} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 20 \end{array}\right]_{1082817} = \mathbf{Pl}(0,13,0,20,0,1)_{38106}$$

$$\ell_{691} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{26} \end{array}\right]_{1082754} = \left[\begin{array}{cccc} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 23 \end{array}\right]_{1082754} = \mathbf{Pl}(0,11,0,23,0,1)_{38293}$$

$$\ell_{692} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{20} \end{array}\right]_{1083172} = \left[\begin{array}{cccc} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 12 \end{array}\right]_{1083172} = \mathbf{Pl}(0,24,0,12,0,1)_{37613}$$

$$\ell_{693} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082435} = \left[\begin{array}{cccc} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082435} = \mathbf{Pl}(0,2,0,1,0,1)_{36898}$$

$$\ell_{694} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{13} \end{array}\right]_{1083353} = \left[\begin{array}{cccc} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 28 \end{array}\right]_{1083353} = \mathbf{Pl}(0,29,0,28,0,1)_{38626}$$

$$\ell_{695} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{23} \end{array}\right]_{1083373} = \left[\begin{array}{cccc} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 15 \end{array}\right]_{1083373} = \mathbf{Pl}(0,30,0,15,0,1)_{37808}$$

$$\ell_{696} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{8} \end{array}\right]_{1083239} = \left[\begin{array}{cccc} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 13 \end{array}\right]_{1083239} = \mathbf{Pl}(0,26,0,13,0,1)_{37678}$$

$$\ell_{697} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{2} \end{array}\right]_{1082636} = \left[\begin{array}{cccc} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 4 \end{array}\right]_{1082636} = \mathbf{Pl}(0,8,0,4,0,1)_{37093}$$

$$\ell_{698} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{4} \end{array}\right]_{1082549} = \left[\begin{array}{cccc} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 16 \end{array}\right]_{1082549} = \mathbf{Pl}(0,5,0,16,0,1)_{37846}$$

$$\ell_{699} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{9} \end{array}\right]_{1082955} = \left[\begin{array}{cccc} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 26 \end{array}\right]_{1082955} = \mathbf{Pl}(0,17,0,26,0,1)_{38488}$$

$$\ell_{700} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{5} \end{array}\right]_{1082703} = \left[\begin{array}{cccc} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 5 \end{array}\right]_{1082703} = \mathbf{Pl}(0,10,0,5,0,1)_{37158}$$

$$\ell_{701} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{21} \end{array}\right]_{1083085} = \left[\begin{array}{cccc} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 24 \end{array}\right]_{1083085} = \mathbf{Pl}(0,21,0,24,0,1)_{38366}$$

$$\ell_{702} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{14} \end{array}\right]_{1083420} = \left[\begin{array}{cccc} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 29 \end{array}\right]_{1083420} = \mathbf{Pl}(0,31,0,29,0,1)_{38691}$$

$$\ell_{703} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{17} \end{array}\right]_{1082486} = \left[\begin{array}{cccc} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 19 \end{array}\right]_{1082486} = \mathbf{Pl}(0,3,0,19,0,1)_{38033}$$

$$\ell_{704} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{16} \end{array}\right]_{1083022} = \left[\begin{array}{cccc} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 27 \end{array}\right]_{1083022} = \mathbf{Pl}(0,19,0,27,0,1)_{38553}$$

$$\ell_{705} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{6} \end{array}\right]_{1083038} = \left[\begin{array}{cccc} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 10 \end{array}\right]_{1083038} = \mathbf{Pl}(0,20,0,10,0,1)_{37483}$$

$$\ell_{706} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{15} \end{array}\right]_{1083290} = \left[\begin{array}{cccc} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 31 \end{array}\right]_{1083290} = \mathbf{Pl}(0,27,0,31,0,1)_{38813}$$

$$\ell_{707} = \left[\begin{array}{cccc} 0 & 1 & \eta^{14} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1083357} = \left[\begin{array}{cccc} 0 & 1 & 29 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1083357} = \mathbf{Pl}(0,29,0,1,0,0)_{125}$$

$$\ell_{708} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{17} \end{array}\right]_{1082420} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 19 \end{array}\right]_{1082420} = \mathbf{Pl}(0,1,0,19,0,1)_{38031}$$

$$\ell_{709} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{16} \end{array}\right]_{1082989} = \left[\begin{array}{cccc} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 27 \end{array}\right]_{1082989} = \mathbf{Pl}(0,18,0,27,0,1)_{38552}$$

$$\ell_{710} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{30} \end{array}\right]_{1083310} = \left[\begin{array}{cccc} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 18 \end{array}\right]_{1083310} = \mathbf{Pl}(0,28,0,18,0,1)_{37995}$$

$$\ell_{711} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{15} \end{array}\right]_{1082696} = \left[\begin{array}{cccc} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 31 \end{array}\right]_{1082696} = \mathbf{Pl}(0,9,0,31,0,1)_{38795}$$

$$\ell_{712} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{12} \end{array}\right]_{1083141} = \left[\begin{array}{cccc} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 14 \end{array}\right]_{1083141} = \mathbf{Pl}(0,23,0,14,0,1)_{37738}$$

$$\ell_{713} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{29} \end{array}\right]_{1082839} = \left[\begin{array}{cccc} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 9 \end{array}\right]_{1082839} = \mathbf{Pl}(0,14,0,9,0,1)_{37414}$$

$$\ell_{714} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{6} \end{array}\right]_{1082774} = \left[\begin{array}{cccc} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 10 \end{array}\right]_{1082774} = \mathbf{Pl}(0,12,0,10,0,1)_{37475}$$

$$\ell_{715} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{14} \end{array}\right]_{1083123} = \left[\begin{array}{cccc} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 29 \end{array}\right]_{1083123} = \mathbf{Pl}(0,22,0,29,0,1)_{38682}$$

$$\ell_{716} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{19} \end{array}\right]_{1082506} = \left[\begin{array}{cccc} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 6 \end{array}\right]_{1082506} = \mathbf{Pl}(0,4,0,6,0,1)_{37215}$$

$$\ell_{717} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{11} \end{array}\right]_{1083200} = \left[\begin{array}{cccc} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 7 \end{array}\right]_{1083200} = \mathbf{Pl}(0,25,0,7,0,1)_{37299}$$

$$\ell_{718} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{21} \end{array}\right]_{1082920} = \left[\begin{array}{cccc} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 24 \end{array}\right]_{1082920} = \mathbf{Pl}(0,16,0,24,0,1)_{38361}$$

$$\ell_{719} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{28} \end{array}\right]_{1082621} = \left[\begin{array}{cccc} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 22 \end{array}\right]_{1082621} = \mathbf{Pl}(0,7,0,22,0,1)_{38226}$$

$$\ell_{720} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{9} \end{array}\right]_{1082889} = \left[\begin{array}{cccc} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 26 \end{array}\right]_{1082889} = \mathbf{Pl}(0,15,0,26,0,1)_{38486}$$

$$\ell_{721} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{5} \end{array}\right]_{1082571} = \left[\begin{array}{cccc} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 5 \end{array}\right]_{1082571} = \mathbf{Pl}(0,6,0,5,0,1)_{37154}$$

$$\ell_{722} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{25} \end{array}\right]_{1082822} = \left[\begin{array}{cccc} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 25 \end{array}\right]_{1082822} = \mathbf{Pl}(0,13,0,25,0,1)_{38421}$$

$$\ell_{723} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{13} \end{array}\right]_{1082759} = \left[\begin{array}{cccc} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 28 \end{array}\right]_{1082759} = \mathbf{Pl}(0,11,0,28,0,1)_{38608}$$

$$\ell_{724} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{7} \end{array}\right]_{1083180} = \left[\begin{array}{cccc} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 20 \end{array}\right]_{1083180} = \mathbf{Pl}(0,24,0,20,0,1)_{38117}$$

$$\ell_{725} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{18} \end{array}\right]_{1082437} = \left[\begin{array}{cccc} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 3 \end{array}\right]_{1082437} = \mathbf{Pl}(0,2,0,3,0,1)_{37024}$$

$$\ell_{726} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & 1 \end{array}\right]_{1083326} = \left[\begin{array}{cccc} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 1 \end{array}\right]_{1083326} = \mathbf{Pl}(0,29,0,1,0,1)_{36925}$$

$$\ell_{727} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{10} \end{array}\right]_{1083375} = \left[\begin{array}{cccc} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 17 \end{array}\right]_{1083375} = \mathbf{Pl}(0,30,0,17,0,1)_{37934}$$

$$\ell_{728} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{26} \end{array}\right]_{1083249} = \left[\begin{array}{cccc} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 23 \end{array}\right]_{1083249} = \mathbf{Pl}(0,26,0,23,0,1)_{38308}$$

$$\ell_{729} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{20} \end{array}\right]_{1082644} = \left[\begin{array}{cccc} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 12 \end{array}\right]_{1082644} = \mathbf{Pl}(0,8,0,12,0,1)_{37597}$$

$$\ell_{730} = \begin{bmatrix} 0 & 1 & 0 & \eta^5 \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1082554} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1082554} = \mathbf{Pl}(0,5,0,21,0,1)_{38161}$$

$$\ell_{731} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1082940} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1082940} = \mathbf{Pl}(0,17,0,11,0,1)_{37543}$$

$$\ell_{732} = \begin{bmatrix} 0 & 1 & 0 & \eta^6 \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1082713} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1082713} = \mathbf{Pl}(0,10,0,15,0,1)_{37788}$$

$$\ell_{733} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^8 \end{bmatrix}_{1083074} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1083074} = \mathbf{Pl}(0,21,0,13,0,1)_{37673}$$

$$\ell_{734} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1083393} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1083393} = \mathbf{Pl}(0,31,0,2,0,1)_{36990}$$

$$\ell_{735} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^4 \end{bmatrix}_{1082483} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1082483} = \mathbf{Pl}(0,3,0,16,0,1)_{37844}$$

$$\ell_{736} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^3 \end{bmatrix}_{1083003} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1083003} = \mathbf{Pl}(0,19,0,8,0,1)_{37356}$$

$$\ell_{737} = \begin{bmatrix} 0 & 1 & 0 & \eta^7 \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1083058} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1083058} = \mathbf{Pl}(0,20,0,30,0,1)_{38743}$$

$$\ell_{738} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^2 \end{bmatrix}_{1083263} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1083263} = \mathbf{Pl}(0,27,0,4,0,1)_{37112}$$

$$\ell_{739} = \begin{bmatrix} 0 & 1 & \eta^{24} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083390} = \begin{bmatrix} 0 & 1 & 30 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083390} = \mathbf{Pl}(0,30,0,1,0,0)_{126}$$

$$\ell_{740} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^7 \end{bmatrix}_{1082421} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 20 \end{bmatrix}_{1082421} = \mathbf{Pl}(0,1,0,20,0,1)_{38094}$$

$$\ell_{741} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^6 \end{bmatrix}_{1082972} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1082972} = \mathbf{Pl}(0,18,0,10,0,1)_{37481}$$

$$\ell_{742} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1083304} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1083304} = \mathbf{Pl}(0,28,0,12,0,1)_{37617}$$

$$\ell_{743} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^5 \end{bmatrix}_{1082670} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1082670} = \mathbf{Pl}(0,9,0,5,0,1)_{37157}$$

$$\ell_{744} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^2 \end{bmatrix}_{1083131} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1083131} = \mathbf{Pl}(0,23,0,4,0,1)_{37108}$$

$$\ell_{745} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{19} \end{bmatrix}_{1082836} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{1082836} = \mathbf{Pl}(0,14,0,6,0,1)_{37225}$$

$$\ell_{746} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1082775} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1082775} = \mathbf{Pl}(0,12,0,11,0,1)_{37538}$$

$$\ell_{747} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^4 \end{bmatrix}_{1083110} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1083110} = \mathbf{Pl}(0,22,0,16,0,1)_{37863}$$

$$\ell_{748} = \begin{bmatrix} 0 & 1 & 0 & \eta^2 \\ 0 & 0 & 1 & \eta^9 \end{bmatrix}_{1082526} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 26 \end{bmatrix}_{1082526} = \mathbf{Pl}(0,4,0,26,0,1)_{38475}$$

$$\ell_{749} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1083195} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1083195} = \mathbf{Pl}(0,25,0,2,0,1)_{36984}$$

$$\ell_{750} = \begin{bmatrix} 0 & 1 & 0 & \eta^4 \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1082903} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1082903} = \mathbf{Pl}(0,16,0,7,0,1)_{37290}$$

$$\ell_{751} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1082602} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1082602} = \mathbf{Pl}(0,7,0,3,0,1)_{37029}$$

$$\ell_{752} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1082881} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1082881} = \mathbf{Pl}(0,15,0,18,0,1)_{37982}$$

$$\ell_{753} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1082589} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1082589} = \mathbf{Pl}(0,6,0,23,0,1)_{38288}$$

$$\ell_{754} = \begin{bmatrix} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1082828} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1082828} = \mathbf{Pl}(0,13,0,31,0,1)_{38799}$$

$$\ell_{755} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{3} \end{bmatrix}_{1082739} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1082739} = \mathbf{Pl}(0,11,0,8,0,1)_{37348}$$

$$\ell_{756} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1083182} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1083182} = \mathbf{Pl}(0,24,0,22,0,1)_{38243}$$

$$\ell_{757} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{8} \end{bmatrix}_{1082447} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1082447} = \mathbf{Pl}(0,2,0,13,0,1)_{37654}$$

$$\ell_{758} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1083349} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1083349} = \mathbf{Pl}(0,29,0,24,0,1)_{38374}$$

$$\ell_{759} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1083359} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1083359} = \mathbf{Pl}(0,30,0,1,0,1)_{36926}$$

$$\ell_{760} = \begin{bmatrix} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1083253} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1083253} = \mathbf{Pl}(0,26,0,27,0,1)_{38560}$$

$$\ell_{761} = \begin{bmatrix} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1082649} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1082649} = \mathbf{Pl}(0,8,0,17,0,1)_{37912}$$

$$\ell_{762} = \begin{bmatrix} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1082547} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1082547} = \mathbf{Pl}(0,5,0,14,0,1)_{37720}$$

$$\ell_{763} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1082948} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1082948} = \mathbf{Pl}(0,17,0,19,0,1)_{38047}$$

$$\ell_{764} = \begin{bmatrix} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1082726} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1082726} = \mathbf{Pl}(0,10,0,28,0,1)_{38607}$$

$$\ell_{765} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1083070} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1083070} = \mathbf{Pl}(0,21,0,9,0,1)_{37421}$$

$$\ell_{766} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1083412} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1083412} = \mathbf{Pl}(0,31,0,21,0,1)_{38187}$$

$$\ell_{767} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{25} \end{bmatrix}_{1082492} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 25 \end{bmatrix}_{1082492} = \mathbf{Pl}(0,3,0,25,0,1)_{38411}$$

$$\ell_{768} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1083025} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1083025} = \mathbf{Pl}(0,19,0,30,0,1)_{38742}$$

$$\ell_{769} = \begin{bmatrix} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{14} \end{bmatrix}_{1083057} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 29 \end{bmatrix}_{1083057} = \mathbf{Pl}(0,20,0,29,0,1)_{38680}$$

$$\ell_{770} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1083274} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1083274} = \mathbf{Pl}(0,27,0,15,0,1)_{37805}$$

$$\ell_{771} = \begin{bmatrix} 0 & 1 & \eta^{9} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083258} = \begin{bmatrix} 0 & 1 & 26 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083258} = \mathbf{Pl}(0,26,0,1,0,0)_{122}$$

$$\ell_{772} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1082422} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1082422} = \mathbf{Pl}(0,1,0,21,0,1)_{38157}$$

$$\ell_{773} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1082986} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1082986} = \mathbf{Pl}(0,18,0,24,0,1)_{38363}$$

$$\ell_{774} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{4} \end{bmatrix}_{1083308} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1083308} = \mathbf{Pl}(0,28,0,16,0,1)_{37869}$$

$$\ell_{775} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1082677} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1082677} = \mathbf{Pl}(0,9,0,12,0,1)_{37598}$$

$$\ell_{776} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1083146} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1083146} = \mathbf{Pl}(0,23,0,19,0,1)_{38053}$$

$$\ell_{777} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{3} \end{bmatrix}_{1082838} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1082838} = \mathbf{Pl}(0,14,0,8,0,1)_{37351}$$

$$\ell_{778} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1082771} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1082771} = \mathbf{Pl}(0,12,0,7,0,1)_{37286}$$

$$\ell_{779} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{19} \end{bmatrix}_{1083100} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{1083100} = \mathbf{Pl}(0,22,0,6,0,1)_{37233}$$

$$\ell_{780} = \begin{bmatrix} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1082530} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1082530} = \mathbf{Pl}(0,4,0,30,0,1)_{38727}$$

$$\ell_{781} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1083220} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1083220} = \mathbf{Pl}(0,25,0,27,0,1)_{38559}$$

$$\ell_{782} = \begin{bmatrix} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1082919} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1082919} = \mathbf{Pl}(0,16,0,23,0,1)_{38298}$$

$$\ell_{783} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{2} \end{bmatrix}_{1082603} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1082603} = \mathbf{Pl}(0,7,0,4,0,1)_{37092}$$

$$\ell_{784} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{14} \end{bmatrix}_{1082892} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 29 \end{bmatrix}_{1082892} = \mathbf{Pl}(0,15,0,29,0,1)_{38675}$$

$$\ell_{785} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1082583} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1082583} = \mathbf{Pl}(0,6,0,17,0,1)_{37910}$$

$$\ell_{786} = \begin{bmatrix} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1082815} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1082815} = \mathbf{Pl}(0,13,0,18,0,1)_{37980}$$

$$\ell_{787} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1082734} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1082734} = \mathbf{Pl}(0,11,0,3,0,1)_{37033}$$

$$\ell_{788} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1083174} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1083174} = \mathbf{Pl}(0,24,0,14,0,1)_{37739}$$

$$\ell_{789} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1082449} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1082449} = \mathbf{Pl}(0,2,0,15,0,1)_{37780}$$

$$\ell_{790} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{5} \end{bmatrix}_{1083330} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1083330} = \mathbf{Pl}(0,29,0,5,0,1)_{37177}$$

$$\ell_{791} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1083389} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1083389} = \mathbf{Pl}(0,30,0,31,0,1)_{38816}$$

$$\ell_{792} = \begin{bmatrix} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1083227} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1083227} = \mathbf{Pl}(0,26,0,1,0,1)_{36922}$$

$$\ell_{793} = \begin{bmatrix} 0 & 1 & 0 & \eta^3 \\ 0 & 0 & 1 & \eta^{25} \end{bmatrix}_{1082657} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 25 \end{bmatrix}_{1082657} = \mathbf{Pl}(0,8,0,25,0,1)_{38416}$$

$$\ell_{794} = \begin{bmatrix} 0 & 1 & 0 & \eta^5 \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1082544} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1082544} = \mathbf{Pl}(0,5,0,11,0,1)_{37531}$$

$$\ell_{795} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1082931} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1082931} = \mathbf{Pl}(0,17,0,2,0,1)_{36976}$$

$$\ell_{796} = \begin{bmatrix} 0 & 1 & 0 & \eta^6 \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1082720} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1082720} = \mathbf{Pl}(0,10,0,22,0,1)_{38229}$$

$$\ell_{797} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1083089} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1083089} = \mathbf{Pl}(0,21,0,28,0,1)_{38618}$$

$$\ell_{798} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^6 \end{bmatrix}_{1083401} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1083401} = \mathbf{Pl}(0,31,0,10,0,1)_{37494}$$

$$\ell_{799} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^9 \end{bmatrix}_{1082493} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 26 \end{bmatrix}_{1082493} = \mathbf{Pl}(0,3,0,26,0,1)_{38474}$$

$$\ell_{800} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^8 \end{bmatrix}_{1083008} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1083008} = \mathbf{Pl}(0,19,0,13,0,1)_{37671}$$

$$\ell_{801} = \begin{bmatrix} 0 & 1 & 0 & \eta^7 \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1083037} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1083037} = \mathbf{Pl}(0,20,0,9,0,1)_{37420}$$

$$\ell_{802} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^7 \end{bmatrix}_{1083279} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 20 \end{bmatrix}_{1083279} = \mathbf{Pl}(0,27,0,20,0,1)_{38120}$$

$$\ell_{803} = \begin{bmatrix} 0 & 1 & \eta^3 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082664} = \begin{bmatrix} 0 & 1 & 8 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082664} = \mathbf{Pl}(0,8,0,1,0,0)_{104}$$

$$\ell_{804} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1082423} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1082423} = \mathbf{Pl}(0,1,0,22,0,1)_{38220}$$

$$\ell_{805} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1082973} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1082973} = \mathbf{Pl}(0,18,0,11,0,1)_{37544}$$

$$\ell_{806} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1083309} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1083309} = \mathbf{Pl}(0,28,0,17,0,1)_{37932}$$

$$\ell_{807} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1082688} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1082688} = \mathbf{Pl}(0,9,0,23,0,1)_{38291}$$

$$\ell_{808} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1083142} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1083142} = \mathbf{Pl}(0,23,0,15,0,1)_{37801}$$

$$\ell_{809} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^9 \end{bmatrix}_{1082856} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 26 \end{bmatrix}_{1082856} = \mathbf{Pl}(0,14,0,26,0,1)_{38485}$$

$$\ell_{810} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1082783} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1082783} = \mathbf{Pl}(0,12,0,19,0,1)_{38042}$$

$$\ell_{811} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{25} \end{bmatrix}_{1083119} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 25 \end{bmatrix}_{1083119} = \mathbf{Pl}(0,22,0,25,0,1)_{38430}$$

$$\ell_{812} = \begin{bmatrix} 0 & 1 & 0 & \eta^2 \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1082518} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1082518} = \mathbf{Pl}(0,4,0,18,0,1)_{37971}$$

$$\ell_{813} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1083214} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1083214} = \mathbf{Pl}(0,25,0,21,0,1)_{38181}$$

$$\ell_{814} = \begin{bmatrix} 0 & 1 & 0 & \eta^4 \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1082898} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1082898} = \mathbf{Pl}(0,16,0,2,0,1)_{36975}$$

$$\ell_{815} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^8 \end{bmatrix}_{1082612} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1082612} = \mathbf{Pl}(0,7,0,13,0,1)_{37659}$$

$$\ell_{816} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1082875} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1082875} = \mathbf{Pl}(0,15,0,12,0,1)_{37604}$$

$$\ell_{817} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1082593} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1082593} = \mathbf{Pl}(0,6,0,27,0,1)_{38540}$$

$$\ell_{818} = \begin{bmatrix} 0 & 1 & 0 & \eta^8 \\ 0 & 0 & 1 & \eta^5 \end{bmatrix}_{1082802} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1082802} = \mathbf{Pl}(0,13,0,5,0,1)_{37161}$$

$$\ell_{819} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1082761} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1082761} = \mathbf{Pl}(0,11,0,30,0,1)_{38734}$$

$$\ell_{820} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1083163} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1083163} = \mathbf{Pl}(0,24,0,3,0,1)_{37046}$$

$$\ell_{821} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1082443} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1082443} = \mathbf{Pl}(0,2,0,9,0,1)_{37402}$$

$$\ell_{822} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1083332} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1083332} = \mathbf{Pl}(0,29,0,7,0,1)_{37303}$$

$$\ell_{823} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1083382} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1083382} = \mathbf{Pl}(0,30,0,24,0,1)_{38375}$$

$$\ell_{824} = \begin{bmatrix} 0 & 1 & 0 & \eta^9 \\ 0 & 0 & 1 & \eta^6 \end{bmatrix}_{1083236} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1083236} = \mathbf{Pl}(0,26,0,10,0,1)_{37489}$$

$$\ell_{825} = \begin{bmatrix} 0 & 1 & 0 & \eta^3 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082633} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082633} = \mathbf{Pl}(0,8,0,1,0,1)_{36904}$$

$$\ell_{826} = \begin{bmatrix} 0 & 1 & 0 & \eta^5 \\ 0 & 0 & 1 & \eta^2 \end{bmatrix}_{1082537} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1082537} = \mathbf{Pl}(0,5,0,4,0,1)_{37090}$$

$$\ell_{827} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^7 \end{bmatrix}_{1082949} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 20 \end{bmatrix}_{1082949} = \mathbf{Pl}(0,17,0,20,0,1)_{38110}$$

$$\ell_{828} = \begin{bmatrix} 0 & 1 & 0 & \eta^6 \\ 0 & 0 & 1 & \eta^3 \end{bmatrix}_{1082706} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1082706} = \mathbf{Pl}(0,10,0,8,0,1)_{37347}$$

$$\ell_{829} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{19} \end{bmatrix}_{1083067} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{1083067} = \mathbf{Pl}(0,21,0,6,0,1)_{37232}$$

$$\ell_{830} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1083405} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1083405} = \mathbf{Pl}(0,31,0,14,0,1)_{37746}$$

$$\ell_{831} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1082498} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1082498} = \mathbf{Pl}(0,3,0,31,0,1)_{38789}$$

$$\ell_{832} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{14} \end{bmatrix}_{1083024} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 29 \end{bmatrix}_{1083024} = \mathbf{Pl}(0,19,0,29,0,1)_{38679}$$

$$\ell_{833} = \begin{bmatrix} 0 & 1 & 0 & \eta^7 \\ 0 & 0 & 1 & \eta^4 \end{bmatrix}_{1083044} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1083044} = \mathbf{Pl}(0,20,0,16,0,1)_{37861}$$

$$\ell_{834} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1083287} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1083287} = \mathbf{Pl}(0,27,0,28,0,1)_{38624}$$

$$\ell_{835} = \left[\begin{array}{cccc} 0 & 1 & \eta^5 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082565} = \left[\begin{array}{cccc} 0 & 1 & 5 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082565} = \mathbf{Pl}(0,5,0,1,0,0)_{101}$$

$$\ell_{836} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{26} \end{array}\right]_{1082424} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 23 \end{array}\right]_{1082424} = \mathbf{Pl}(0,1,0,23,0,1)_{38283}$$

$$\ell_{837} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{25} \end{array}\right]_{1082987} = \left[\begin{array}{cccc} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 25 \end{array}\right]_{1082987} = \mathbf{Pl}(0,18,0,25,0,1)_{38426}$$

$$\ell_{838} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{8} \end{array}\right]_{1083305} = \left[\begin{array}{cccc} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 13 \end{array}\right]_{1083305} = \mathbf{Pl}(0,28,0,13,0,1)_{37680}$$

$$\ell_{839} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{24} \end{array}\right]_{1082695} = \left[\begin{array}{cccc} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 30 \end{array}\right]_{1082695} = \mathbf{Pl}(0,9,0,30,0,1)_{38732}$$

$$\ell_{840} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{21} \end{array}\right]_{1083151} = \left[\begin{array}{cccc} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 24 \end{array}\right]_{1083151} = \mathbf{Pl}(0,23,0,24,0,1)_{38368}$$

$$\ell_{841} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{7} \end{array}\right]_{1082850} = \left[\begin{array}{cccc} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 20 \end{array}\right]_{1082850} = \mathbf{Pl}(0,14,0,20,0,1)_{38107}$$

$$\ell_{842} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{15} \end{array}\right]_{1082795} = \left[\begin{array}{cccc} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 31 \end{array}\right]_{1082795} = \mathbf{Pl}(0,12,0,31,0,1)_{38798}$$

$$\ell_{843} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{23} \end{array}\right]_{1083109} = \left[\begin{array}{cccc} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 15 \end{array}\right]_{1083109} = \mathbf{Pl}(0,22,0,15,0,1)_{37800}$$

$$\ell_{844} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{28} \end{array}\right]_{1082522} = \left[\begin{array}{cccc} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 22 \end{array}\right]_{1082522} = \mathbf{Pl}(0,4,0,22,0,1)_{38223}$$

$$\ell_{845} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{20} \end{array}\right]_{1083205} = \left[\begin{array}{cccc} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 12 \end{array}\right]_{1083205} = \mathbf{Pl}(0,25,0,12,0,1)_{37614}$$

$$\ell_{846} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{30} \end{array}\right]_{1082914} = \left[\begin{array}{cccc} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 18 \end{array}\right]_{1082914} = \mathbf{Pl}(0,16,0,18,0,1)_{37983}$$

$$\ell_{847} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{6} \end{array}\right]_{1082609} = \left[\begin{array}{cccc} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 10 \end{array}\right]_{1082609} = \mathbf{Pl}(0,7,0,10,0,1)_{37470}$$

$$\ell_{848} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{18} \end{array}\right]_{1082866} = \left[\begin{array}{cccc} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 3 \end{array}\right]_{1082866} = \mathbf{Pl}(0,15,0,3,0,1)_{37037}$$

$$\ell_{849} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{14} \end{array}\right]_{1082595} = \left[\begin{array}{cccc} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 29 \end{array}\right]_{1082595} = \mathbf{Pl}(0,6,0,29,0,1)_{38666}$$

$$\ell_{850} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{3} \end{array}\right]_{1082805} = \left[\begin{array}{cccc} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 8 \end{array}\right]_{1082805} = \mathbf{Pl}(0,13,0,8,0,1)_{37350}$$

$$\ell_{851} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{22} \end{array}\right]_{1082752} = \left[\begin{array}{cccc} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 21 \end{array}\right]_{1082752} = \mathbf{Pl}(0,11,0,21,0,1)_{38167}$$

$$\ell_{852} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{16} \end{array}\right]_{1083187} = \left[\begin{array}{cccc} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 27 \end{array}\right]_{1083187} = \mathbf{Pl}(0,24,0,27,0,1)_{38558}$$

$$\ell_{853} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{27} \end{array}\right]_{1082445} = \left[\begin{array}{cccc} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 11 \end{array}\right]_{1082445} = \mathbf{Pl}(0,2,0,11,0,1)_{37528}$$

$$\ell_{854} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{9} \end{array}\right]_{1083351} = \left[\begin{array}{cccc} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 26 \end{array}\right]_{1083351} = \mathbf{Pl}(0,29,0,26,0,1)_{38500}$$

$$\ell_{855} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{19} \end{array}\right]_{1083364} = \left[\begin{array}{cccc} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 6 \end{array}\right]_{1083364} = \mathbf{Pl}(0,30,0,6,0,1)_{37241}$$

$$\ell_{856} = \begin{bmatrix} 0 & 1 & 0 & \eta^9 \\ 0 & 0 & 1 & \eta^4 \end{bmatrix}_{1083242} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1083242} = \mathbf{Pl}(0,26,0,16,0,1)_{37867}$$

$$\ell_{857} = \begin{bmatrix} 0 & 1 & 0 & \eta^3 \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1082641} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1082641} = \mathbf{Pl}(0,8,0,9,0,1)_{37408}$$

$$\ell_{858} = \begin{bmatrix} 0 & 1 & 0 & \eta^5 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082534} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082534} = \mathbf{Pl}(0,5,0,1,0,1)_{36901}$$

$$\ell_{859} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^5 \end{bmatrix}_{1082934} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1082934} = \mathbf{Pl}(0,17,0,5,0,1)_{37165}$$

$$\ell_{860} = \begin{bmatrix} 0 & 1 & 0 & \eta^6 \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1082700} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1082700} = \mathbf{Pl}(0,10,0,2,0,1)_{36969}$$

$$\ell_{861} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1083080} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1083080} = \mathbf{Pl}(0,21,0,19,0,1)_{38051}$$

$$\ell_{862} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1083408} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1083408} = \mathbf{Pl}(0,31,0,17,0,1)_{37935}$$

$$\ell_{863} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1082495} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1082495} = \mathbf{Pl}(0,3,0,28,0,1)_{38600}$$

$$\ell_{864} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1083009} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1083009} = \mathbf{Pl}(0,19,0,14,0,1)_{37734}$$

$$\ell_{865} = \begin{bmatrix} 0 & 1 & 0 & \eta^7 \\ 0 & 0 & 1 & \eta^2 \end{bmatrix}_{1083032} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1083032} = \mathbf{Pl}(0,20,0,4,0,1)_{37105}$$

$$\ell_{866} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1083266} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1083266} = \mathbf{Pl}(0,27,0,7,0,1)_{37301}$$

$$\ell_{867} = \begin{bmatrix} 0 & 1 & \eta^{10} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082961} = \begin{bmatrix} 0 & 1 & 17 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082961} = \mathbf{Pl}(0,17,0,1,0,0)_{113}$$

$$\ell_{868} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1082425} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1082425} = \mathbf{Pl}(0,1,0,24,0,1)_{38346}$$

$$\ell_{869} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1082974} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1082974} = \mathbf{Pl}(0,18,0,12,0,1)_{37607}$$

$$\ell_{870} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^3 \end{bmatrix}_{1083300} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1083300} = \mathbf{Pl}(0,28,0,8,0,1)_{37365}$$

$$\ell_{871} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{19} \end{bmatrix}_{1082671} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{1082671} = \mathbf{Pl}(0,9,0,6,0,1)_{37220}$$

$$\ell_{872} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1083154} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1083154} = \mathbf{Pl}(0,23,0,27,0,1)_{38557}$$

$$\ell_{873} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^2 \end{bmatrix}_{1082834} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1082834} = \mathbf{Pl}(0,14,0,4,0,1)_{37099}$$

$$\ell_{874} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1082781} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1082781} = \mathbf{Pl}(0,12,0,17,0,1)_{37916}$$

$$\ell_{875} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1083097} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1083097} = \mathbf{Pl}(0,22,0,3,0,1)_{37044}$$

$$\ell_{876} = \begin{bmatrix} 0 & 1 & 0 & \eta^2 \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1082515} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1082515} = \mathbf{Pl}(0,4,0,15,0,1)_{37782}$$

$$\ell_{877} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{15} \end{array}\right]_{1083224} = \left[\begin{array}{cccc} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 31 \end{array}\right]_{1083224} = \mathbf{Pl}(0,25,0,31,0,1)_{38811}$$

$$\ell_{878} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{25} \end{array}\right]_{1082921} = \left[\begin{array}{cccc} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 25 \end{array}\right]_{1082921} = \mathbf{Pl}(0,16,0,25,0,1)_{38424}$$

$$\ell_{879} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta \end{array}\right]_{1082601} = \left[\begin{array}{cccc} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 2 \end{array}\right]_{1082601} = \mathbf{Pl}(0,7,0,2,0,1)_{36966}$$

$$\ell_{880} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{13} \end{array}\right]_{1082891} = \left[\begin{array}{cccc} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 28 \end{array}\right]_{1082891} = \mathbf{Pl}(0,15,0,28,0,1)_{38612}$$

$$\ell_{881} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{9} \end{array}\right]_{1082592} = \left[\begin{array}{cccc} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 26 \end{array}\right]_{1082592} = \mathbf{Pl}(0,6,0,26,0,1)_{38477}$$

$$\ell_{882} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{29} \end{array}\right]_{1082806} = \left[\begin{array}{cccc} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 9 \end{array}\right]_{1082806} = \mathbf{Pl}(0,13,0,9,0,1)_{37413}$$

$$\ell_{883} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{17} \end{array}\right]_{1082750} = \left[\begin{array}{cccc} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 19 \end{array}\right]_{1082750} = \mathbf{Pl}(0,11,0,19,0,1)_{38041}$$

$$\ell_{884} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{11} \end{array}\right]_{1083167} = \left[\begin{array}{cccc} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 7 \end{array}\right]_{1083167} = \mathbf{Pl}(0,24,0,7,0,1)_{37298}$$

$$\ell_{885} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{22} \end{array}\right]_{1082455} = \left[\begin{array}{cccc} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 21 \end{array}\right]_{1082455} = \mathbf{Pl}(0,2,0,21,0,1)_{38158}$$

$$\ell_{886} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{4} \end{array}\right]_{1083341} = \left[\begin{array}{cccc} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 16 \end{array}\right]_{1083341} = \mathbf{Pl}(0,29,0,16,0,1)_{37870}$$

$$\ell_{887} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{14} \end{array}\right]_{1083387} = \left[\begin{array}{cccc} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 29 \end{array}\right]_{1083387} = \mathbf{Pl}(0,30,0,29,0,1)_{38690}$$

$$\ell_{888} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{30} \end{array}\right]_{1083244} = \left[\begin{array}{cccc} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 18 \end{array}\right]_{1083244} = \mathbf{Pl}(0,26,0,18,0,1)_{37993}$$

$$\ell_{889} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{24} \end{array}\right]_{1082662} = \left[\begin{array}{cccc} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 30 \end{array}\right]_{1082662} = \mathbf{Pl}(0,8,0,30,0,1)_{38731}$$

$$\ell_{890} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{26} \end{array}\right]_{1082556} = \left[\begin{array}{cccc} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 23 \end{array}\right]_{1082556} = \mathbf{Pl}(0,5,0,23,0,1)_{38287}$$

$$\ell_{891} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082930} = \left[\begin{array}{cccc} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082930} = \mathbf{Pl}(0,17,0,1,0,1)_{36913}$$

$$\ell_{892} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{27} \end{array}\right]_{1082709} = \left[\begin{array}{cccc} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 11 \end{array}\right]_{1082709} = \mathbf{Pl}(0,10,0,11,0,1)_{37536}$$

$$\ell_{893} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{12} \end{array}\right]_{1083075} = \left[\begin{array}{cccc} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 14 \end{array}\right]_{1083075} = \mathbf{Pl}(0,21,0,14,0,1)_{37736}$$

$$\ell_{894} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{5} \end{array}\right]_{1083396} = \left[\begin{array}{cccc} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 5 \end{array}\right]_{1083396} = \mathbf{Pl}(0,31,0,5,0,1)_{37179}$$

$$\ell_{895} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{8} \end{array}\right]_{1082480} = \left[\begin{array}{cccc} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 13 \end{array}\right]_{1082480} = \mathbf{Pl}(0,3,0,13,0,1)_{37655}$$

$$\ell_{896} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{7} \end{array}\right]_{1083015} = \left[\begin{array}{cccc} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 20 \end{array}\right]_{1083015} = \mathbf{Pl}(0,19,0,20,0,1)_{38112}$$

$$\ell_{897} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{28} \end{array}\right]_{1083050} = \left[\begin{array}{cccc} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 22 \end{array}\right]_{1083050} = \mathbf{Pl}(0,20,0,22,0,1)_{38239}$$

$$\ell_{898} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^6 \end{bmatrix}_{1083269} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1083269} = \mathbf{Pl}(0, 27, 0, 10, 0, 1)_{37490}$$

$$\ell_{899} = \begin{bmatrix} 0 & 1 & \eta^6 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082730} = \begin{bmatrix} 0 & 1 & 10 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1082730} = \mathbf{Pl}(0, 10, 0, 1, 0, 0)_{106}$$

$$\ell_{900} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{25} \end{bmatrix}_{1082426} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 25 \end{bmatrix}_{1082426} = \mathbf{Pl}(0, 1, 0, 25, 0, 1)_{38409}$$

$$\ell_{901} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1082992} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1082992} = \mathbf{Pl}(0, 18, 0, 30, 0, 1)_{38741}$$

$$\ell_{902} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^7 \end{bmatrix}_{1083312} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 20 \end{bmatrix}_{1083312} = \mathbf{Pl}(0, 28, 0, 20, 0, 1)_{38121}$$

$$\ell_{903} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1082680} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1082680} = \mathbf{Pl}(0, 9, 0, 15, 0, 1)_{37787}$$

$$\ell_{904} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1083139} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1083139} = \mathbf{Pl}(0, 23, 0, 12, 0, 1)_{37612}$$

$$\ell_{905} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^6 \end{bmatrix}_{1082840} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1082840} = \mathbf{Pl}(0, 14, 0, 10, 0, 1)_{37477}$$

$$\ell_{906} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{14} \end{bmatrix}_{1082793} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 29 \end{bmatrix}_{1082793} = \mathbf{Pl}(0, 12, 0, 29, 0, 1)_{38672}$$

$$\ell_{907} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1083115} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1083115} = \mathbf{Pl}(0, 22, 0, 21, 0, 1)_{38178}$$

$$\ell_{908} = \begin{bmatrix} 0 & 1 & 0 & \eta^2 \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1082511} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1082511} = \mathbf{Pl}(0, 4, 0, 11, 0, 1)_{37530}$$

$$\ell_{909} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{19} \end{bmatrix}_{1083199} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{1083199} = \mathbf{Pl}(0, 25, 0, 6, 0, 1)_{37236}$$

$$\ell_{910} = \begin{bmatrix} 0 & 1 & 0 & \eta^4 \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1082905} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1082905} = \mathbf{Pl}(0, 16, 0, 9, 0, 1)_{37416}$$

$$\ell_{911} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^5 \end{bmatrix}_{1082604} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1082604} = \mathbf{Pl}(0, 7, 0, 5, 0, 1)_{37155}$$

$$\ell_{912} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1082882} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1082882} = \mathbf{Pl}(0, 15, 0, 19, 0, 1)_{38045}$$

$$\ell_{913} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1082594} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1082594} = \mathbf{Pl}(0, 6, 0, 28, 0, 1)_{38603}$$

$$\ell_{914} = \begin{bmatrix} 0 & 1 & 0 & \eta^8 \\ 0 & 0 & 1 & \eta^2 \end{bmatrix}_{1082801} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1082801} = \mathbf{Pl}(0, 13, 0, 4, 0, 1)_{37098}$$

$$\ell_{915} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1082755} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1082755} = \mathbf{Pl}(0, 11, 0, 24, 0, 1)_{38356}$$

$$\ell_{916} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1083191} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1083191} = \mathbf{Pl}(0, 24, 0, 31, 0, 1)_{38810}$$

$$\ell_{917} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1082457} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1082457} = \mathbf{Pl}(0, 2, 0, 23, 0, 1)_{38284}$$

$$\ell_{918} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^8 \end{bmatrix}_{1083338} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1083338} = \mathbf{Pl}(0, 29, 0, 13, 0, 1)_{37681}$$

$$\ell_{919} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1083361} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1083361} = \mathbf{Pl}(0,30,0,3,0,1)_{37052}$$

$$\ell_{920} = \begin{bmatrix} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{3} \end{bmatrix}_{1083234} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1083234} = \mathbf{Pl}(0,26,0,8,0,1)_{37363}$$

$$\ell_{921} = \begin{bmatrix} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1082654} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1082654} = \mathbf{Pl}(0,8,0,22,0,1)_{38227}$$

$$\ell_{922} = \begin{bmatrix} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1082551} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1082551} = \mathbf{Pl}(0,5,0,18,0,1)_{37972}$$

$$\ell_{923} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{4} \end{bmatrix}_{1082945} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1082945} = \mathbf{Pl}(0,17,0,16,0,1)_{37858}$$

$$\ell_{924} = \begin{bmatrix} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082699} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1082699} = \mathbf{Pl}(0,10,0,1,0,1)_{36906}$$

$$\ell_{925} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1083088} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1083088} = \mathbf{Pl}(0,21,0,27,0,1)_{38555}$$

$$\ell_{926} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{9} \end{bmatrix}_{1083417} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 26 \end{bmatrix}_{1083417} = \mathbf{Pl}(0,31,0,26,0,1)_{38502}$$

$$\ell_{927} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1082481} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1082481} = \mathbf{Pl}(0,3,0,14,0,1)_{37718}$$

$$\ell_{928} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1083002} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1083002} = \mathbf{Pl}(0,19,0,7,0,1)_{37293}$$

$$\ell_{929} = \begin{bmatrix} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1083030} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1083030} = \mathbf{Pl}(0,20,0,2,0,1)_{36979}$$

$$\ell_{930} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1083276} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1083276} = \mathbf{Pl}(0,27,0,17,0,1)_{37931}$$

$$\ell_{931} = \begin{bmatrix} 0 & 1 & \eta^{22} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083093} = \begin{bmatrix} 0 & 1 & 21 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083093} = \mathbf{Pl}(0,21,0,1,0,0)_{117}$$

$$\ell_{932} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{9} \end{bmatrix}_{1082427} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 26 \end{bmatrix}_{1082427} = \mathbf{Pl}(0,1,0,26,0,1)_{38472}$$

$$\ell_{933} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{8} \end{bmatrix}_{1082975} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1082975} = \mathbf{Pl}(0,18,0,13,0,1)_{37670}$$

$$\ell_{934} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1083313} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1083313} = \mathbf{Pl}(0,28,0,21,0,1)_{38184}$$

$$\ell_{935} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{7} \end{bmatrix}_{1082685} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 20 \end{bmatrix}_{1082685} = \mathbf{Pl}(0,9,0,20,0,1)_{38102}$$

$$\ell_{936} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{4} \end{bmatrix}_{1083143} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1083143} = \mathbf{Pl}(0,23,0,16,0,1)_{37864}$$

$$\ell_{937} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1082854} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1082854} = \mathbf{Pl}(0,14,0,24,0,1)_{38359}$$

$$\ell_{938} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1082773} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1082773} = \mathbf{Pl}(0,12,0,9,0,1)_{37412}$$

$$\ell_{939} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{6} \end{bmatrix}_{1083104} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1083104} = \mathbf{Pl}(0,22,0,10,0,1)_{37485}$$

$$\ell_{940} = \begin{bmatrix} 0 & 1 & 0 & \eta^2 \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1082507} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1082507} = \mathbf{Pl}(0,4,0,7,0,1)_{37278}$$

$$\ell_{941} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^3 \end{bmatrix}_{1083201} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1083201} = \mathbf{Pl}(0,25,0,8,0,1)_{37362}$$

$$\ell_{942} = \begin{bmatrix} 0 & 1 & 0 & \eta^4 \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1082924} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1082924} = \mathbf{Pl}(0,16,0,28,0,1)_{38613}$$

$$\ell_{943} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1082611} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1082611} = \mathbf{Pl}(0,7,0,12,0,1)_{37596}$$

$$\ell_{944} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1082865} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1082865} = \mathbf{Pl}(0,15,0,2,0,1)_{36974}$$

$$\ell_{945} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1082588} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1082588} = \mathbf{Pl}(0,6,0,22,0,1)_{38225}$$

$$\ell_{946} = \begin{bmatrix} 0 & 1 & 0 & \eta^8 \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1082816} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1082816} = \mathbf{Pl}(0,13,0,19,0,1)_{38043}$$

$$\ell_{947} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^5 \end{bmatrix}_{1082736} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1082736} = \mathbf{Pl}(0,11,0,5,0,1)_{37159}$$

$$\ell_{948} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1083178} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1083178} = \mathbf{Pl}(0,24,0,18,0,1)_{37991}$$

$$\ell_{949} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1082451} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1082451} = \mathbf{Pl}(0,2,0,17,0,1)_{37906}$$

$$\ell_{950} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{23} \end{bmatrix}_{1083340} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 15 \end{bmatrix}_{1083340} = \mathbf{Pl}(0,29,0,15,0,1)_{37807}$$

$$\ell_{951} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^2 \end{bmatrix}_{1083362} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1083362} = \mathbf{Pl}(0,30,0,4,0,1)_{37115}$$

$$\ell_{952} = \begin{bmatrix} 0 & 1 & 0 & \eta^9 \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1083229} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1083229} = \mathbf{Pl}(0,26,0,3,0,1)_{37048}$$

$$\ell_{953} = \begin{bmatrix} 0 & 1 & 0 & \eta^3 \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1082646} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1082646} = \mathbf{Pl}(0,8,0,14,0,1)_{37723}$$

$$\ell_{954} = \begin{bmatrix} 0 & 1 & 0 & \eta^5 \\ 0 & 0 & 1 & \eta^{14} \end{bmatrix}_{1082562} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 29 \end{bmatrix}_{1082562} = \mathbf{Pl}(0,5,0,29,0,1)_{38665}$$

$$\ell_{955} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{19} \end{bmatrix}_{1082935} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 6 \end{bmatrix}_{1082935} = \mathbf{Pl}(0,17,0,6,0,1)_{37228}$$

$$\ell_{956} = \begin{bmatrix} 0 & 1 & 0 & \eta^6 \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1082729} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1082729} = \mathbf{Pl}(0,10,0,31,0,1)_{38796}$$

$$\ell_{957} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1083062} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1083062} = \mathbf{Pl}(0,21,0,1,0,1)_{36917}$$

$$\ell_{958} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1083421} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1083421} = \mathbf{Pl}(0,31,0,30,0,1)_{38754}$$

$$\ell_{959} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1082478} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1082478} = \mathbf{Pl}(0,3,0,11,0,1)_{37529}$$

$$\ell_{960} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1083018} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1083018} = \mathbf{Pl}(0,19,0,23,0,1)_{38301}$$

$$\ell_{961} = \begin{bmatrix} 0 & 1 & 0 & \eta^7 \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1083055} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1083055} = \mathbf{Pl}(0,20,0,27,0,1)_{38554}$$

$$\ell_{962} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{25} \end{bmatrix}_{1083284} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 25 \end{bmatrix}_{1083284} = \mathbf{Pl}(0,27,0,25,0,1)_{38435}$$

$$\ell_{963} = \begin{bmatrix} 0 & 1 & \eta^{15} & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083423} = \begin{bmatrix} 0 & 1 & 31 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}_{1083423} = \mathbf{Pl}(0,31,0,1,0,0)_{127}$$

$$\ell_{964} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1082428} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1082428} = \mathbf{Pl}(0,1,0,27,0,1)_{38535}$$

$$\ell_{965} = \begin{bmatrix} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1082993} = \begin{bmatrix} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1082993} = \mathbf{Pl}(0,18,0,31,0,1)_{38804}$$

$$\ell_{966} = \begin{bmatrix} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1083301} = \begin{bmatrix} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1083301} = \mathbf{Pl}(0,28,0,9,0,1)_{37428}$$

$$\ell_{967} = \begin{bmatrix} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{14} \end{bmatrix}_{1082694} = \begin{bmatrix} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 29 \end{bmatrix}_{1082694} = \mathbf{Pl}(0,9,0,29,0,1)_{38669}$$

$$\ell_{968} = \begin{bmatrix} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{11} \end{bmatrix}_{1083134} = \begin{bmatrix} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 7 \end{bmatrix}_{1083134} = \mathbf{Pl}(0,23,0,7,0,1)_{37297}$$

$$\ell_{969} = \begin{bmatrix} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1082852} = \begin{bmatrix} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1082852} = \mathbf{Pl}(0,14,0,22,0,1)_{38233}$$

$$\ell_{970} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^5 \end{bmatrix}_{1082769} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1082769} = \mathbf{Pl}(0,12,0,5,0,1)_{37160}$$

$$\ell_{971} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1083122} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1083122} = \mathbf{Pl}(0,22,0,28,0,1)_{38619}$$

$$\ell_{972} = \begin{bmatrix} 0 & 1 & 0 & \eta^2 \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1082503} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1082503} = \mathbf{Pl}(0,4,0,3,0,1)_{37026}$$

$$\ell_{973} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{10} \end{bmatrix}_{1083210} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 17 \end{bmatrix}_{1083210} = \mathbf{Pl}(0,25,0,17,0,1)_{37929}$$

$$\ell_{974} = \begin{bmatrix} 0 & 1 & 0 & \eta^4 \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1082908} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1082908} = \mathbf{Pl}(0,16,0,12,0,1)_{37605}$$

$$\ell_{975} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1082610} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1082610} = \mathbf{Pl}(0,7,0,11,0,1)_{37533}$$

$$\ell_{976} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^8 \end{bmatrix}_{1082876} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1082876} = \mathbf{Pl}(0,15,0,13,0,1)_{37667}$$

$$\ell_{977} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^4 \end{bmatrix}_{1082582} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1082582} = \mathbf{Pl}(0,6,0,16,0,1)_{37847}$$

$$\ell_{978} = \begin{bmatrix} 0 & 1 & 0 & \eta^8 \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1082827} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1082827} = \mathbf{Pl}(0,13,0,30,0,1)_{38736}$$

$$\ell_{979} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1082745} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1082745} = \mathbf{Pl}(0,11,0,14,0,1)_{37726}$$

$$\ell_{980} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^6 \end{bmatrix}_{1083170} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1083170} = \mathbf{Pl}(0,24,0,10,0,1)_{37487}$$

$$\ell_{981} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1082453} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1082453} = \mathbf{Pl}(0,2,0,19,0,1)_{38032}$$

$$\ell_{982} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{30} \end{array}\right]_{1083343} = \left[\begin{array}{cccc} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 18 \end{array}\right]_{1083343} = \mathbf{Pl}(0,29,0,18,0,1)_{37996}$$

$$\ell_{983} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{9} \end{array}\right]_{1083384} = \left[\begin{array}{cccc} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 26 \end{array}\right]_{1083384} = \mathbf{Pl}(0,30,0,26,0,1)_{38501}$$

$$\ell_{984} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{25} \end{array}\right]_{1083251} = \left[\begin{array}{cccc} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 25 \end{array}\right]_{1083251} = \mathbf{Pl}(0,26,0,25,0,1)_{38434}$$

$$\ell_{985} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{19} \end{array}\right]_{1082638} = \left[\begin{array}{cccc} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 6 \end{array}\right]_{1082638} = \mathbf{Pl}(0,8,0,6,0,1)_{37219}$$

$$\ell_{986} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{21} \end{array}\right]_{1082557} = \left[\begin{array}{cccc} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 24 \end{array}\right]_{1082557} = \mathbf{Pl}(0,5,0,24,0,1)_{38350}$$

$$\ell_{987} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{26} \end{array}\right]_{1082952} = \left[\begin{array}{cccc} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 23 \end{array}\right]_{1082952} = \mathbf{Pl}(0,17,0,23,0,1)_{38299}$$

$$\ell_{988} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{22} \end{array}\right]_{1082719} = \left[\begin{array}{cccc} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 21 \end{array}\right]_{1082719} = \mathbf{Pl}(0,10,0,21,0,1)_{38166}$$

$$\ell_{989} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{7} \end{array}\right]_{1083081} = \left[\begin{array}{cccc} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 20 \end{array}\right]_{1083081} = \mathbf{Pl}(0,21,0,20,0,1)_{38114}$$

$$\ell_{990} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & 1 \end{array}\right]_{1083392} = \left[\begin{array}{cccc} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 1 \end{array}\right]_{1083392} = \mathbf{Pl}(0,31,0,1,0,1)_{36927}$$

$$\ell_{991} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{3} \end{array}\right]_{1082475} = \left[\begin{array}{cccc} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 8 \end{array}\right]_{1082475} = \mathbf{Pl}(0,3,0,8,0,1)_{37340}$$

$$\ell_{992} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{2} \end{array}\right]_{1082999} = \left[\begin{array}{cccc} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 4 \end{array}\right]_{1082999} = \mathbf{Pl}(0,19,0,4,0,1)_{37104}$$

$$\ell_{993} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{23} \end{array}\right]_{1083043} = \left[\begin{array}{cccc} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 15 \end{array}\right]_{1083043} = \mathbf{Pl}(0,20,0,15,0,1)_{37798}$$

$$\ell_{994} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta \end{array}\right]_{1083261} = \left[\begin{array}{cccc} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 2 \end{array}\right]_{1083261} = \mathbf{Pl}(0,27,0,2,0,1)_{36986}$$

$$\ell_{995} = \left[\begin{array}{cccc} 0 & 1 & \eta^{18} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082499} = \left[\begin{array}{cccc} 0 & 1 & 3 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1082499} = \mathbf{Pl}(0,3,0,1,0,0)_{99}$$

$$\ell_{996} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{13} \end{array}\right]_{1082429} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 28 \end{array}\right]_{1082429} = \mathbf{Pl}(0,1,0,28,0,1)_{38598}$$

$$\ell_{997} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{12} \end{array}\right]_{1082976} = \left[\begin{array}{cccc} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 14 \end{array}\right]_{1082976} = \mathbf{Pl}(0,18,0,14,0,1)_{37733}$$

$$\ell_{998} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{26} \end{array}\right]_{1083315} = \left[\begin{array}{cccc} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 23 \end{array}\right]_{1083315} = \mathbf{Pl}(0,28,0,23,0,1)_{38310}$$

$$\ell_{999} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{11} \end{array}\right]_{1082672} = \left[\begin{array}{cccc} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 7 \end{array}\right]_{1082672} = \mathbf{Pl}(0,9,0,7,0,1)_{37283}$$

$$\ell_{1000} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{8} \end{array}\right]_{1083140} = \left[\begin{array}{cccc} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 13 \end{array}\right]_{1083140} = \mathbf{Pl}(0,23,0,13,0,1)_{37675}$$

$$\ell_{1001} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{25} \end{array}\right]_{1082855} = \left[\begin{array}{cccc} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 25 \end{array}\right]_{1082855} = \mathbf{Pl}(0,14,0,25,0,1)_{38422}$$

$$\ell_{1002} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{2} \end{array}\right]_{1082768} = \left[\begin{array}{cccc} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 4 \end{array}\right]_{1082768} = \mathbf{Pl}(0,12,0,4,0,1)_{37097}$$

$$\ell_{1003} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{10} \end{array}\right]_{1083111} = \left[\begin{array}{cccc} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 17 \end{array}\right]_{1083111} = \mathbf{Pl}(0,22,0,17,0,1)_{37926}$$

$$\ell_{1004} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{15} \end{array}\right]_{1082531} = \left[\begin{array}{cccc} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 31 \end{array}\right]_{1082531} = \mathbf{Pl}(0,4,0,31,0,1)_{38790}$$

$$\ell_{1005} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{7} \end{array}\right]_{1083213} = \left[\begin{array}{cccc} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 20 \end{array}\right]_{1083213} = \mathbf{Pl}(0,25,0,20,0,1)_{38118}$$

$$\ell_{1006} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{17} \end{array}\right]_{1082915} = \left[\begin{array}{cccc} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 19 \end{array}\right]_{1082915} = \mathbf{Pl}(0,16,0,19,0,1)_{38046}$$

$$\ell_{1007} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{24} \end{array}\right]_{1082629} = \left[\begin{array}{cccc} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 30 \end{array}\right]_{1082629} = \mathbf{Pl}(0,7,0,30,0,1)_{38730}$$

$$\ell_{1008} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{5} \end{array}\right]_{1082868} = \left[\begin{array}{cccc} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 5 \end{array}\right]_{1082868} = \mathbf{Pl}(0,15,0,5,0,1)_{37163}$$

$$\ell_{1009} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta \end{array}\right]_{1082568} = \left[\begin{array}{cccc} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 2 \end{array}\right]_{1082568} = \mathbf{Pl}(0,6,0,2,0,1)_{36965}$$

$$\ell_{1010} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{21} \end{array}\right]_{1082821} = \left[\begin{array}{cccc} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 24 \end{array}\right]_{1082821} = \mathbf{Pl}(0,13,0,24,0,1)_{38358}$$

$$\ell_{1011} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{9} \end{array}\right]_{1082757} = \left[\begin{array}{cccc} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 26 \end{array}\right]_{1082757} = \mathbf{Pl}(0,11,0,26,0,1)_{38482}$$

$$\ell_{1012} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{3} \end{array}\right]_{1083168} = \left[\begin{array}{cccc} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 8 \end{array}\right]_{1083168} = \mathbf{Pl}(0,24,0,8,0,1)_{37361}$$

$$\ell_{1013} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{14} \end{array}\right]_{1082463} = \left[\begin{array}{cccc} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 29 \end{array}\right]_{1082463} = \mathbf{Pl}(0,2,0,29,0,1)_{38662}$$

$$\ell_{1014} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{27} \end{array}\right]_{1083336} = \left[\begin{array}{cccc} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 11 \end{array}\right]_{1083336} = \mathbf{Pl}(0,29,0,11,0,1)_{37555}$$

$$\ell_{1015} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{6} \end{array}\right]_{1083368} = \left[\begin{array}{cccc} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 10 \end{array}\right]_{1083368} = \mathbf{Pl}(0,30,0,10,0,1)_{37493}$$

$$\ell_{1016} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{22} \end{array}\right]_{1083247} = \left[\begin{array}{cccc} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 21 \end{array}\right]_{1083247} = \mathbf{Pl}(0,26,0,21,0,1)_{38182}$$

$$\ell_{1017} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{16} \end{array}\right]_{1082659} = \left[\begin{array}{cccc} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 27 \end{array}\right]_{1082659} = \mathbf{Pl}(0,8,0,27,0,1)_{38542}$$

$$\ell_{1018} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{18} \end{array}\right]_{1082536} = \left[\begin{array}{cccc} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 3 \end{array}\right]_{1082536} = \mathbf{Pl}(0,5,0,3,0,1)_{37027}$$

$$\ell_{1019} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{23} \end{array}\right]_{1082944} = \left[\begin{array}{cccc} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 15 \end{array}\right]_{1082944} = \mathbf{Pl}(0,17,0,15,0,1)_{37795}$$

$$\ell_{1020} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{19} \end{array}\right]_{1082704} = \left[\begin{array}{cccc} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 6 \end{array}\right]_{1082704} = \mathbf{Pl}(0,10,0,6,0,1)_{37221}$$

$$\ell_{1021} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{4} \end{array}\right]_{1083077} = \left[\begin{array}{cccc} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 16 \end{array}\right]_{1083077} = \mathbf{Pl}(0,21,0,16,0,1)_{37862}$$

$$\ell_{1022} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{28} \end{array}\right]_{1083413} = \left[\begin{array}{cccc} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 22 \end{array}\right]_{1083413} = \mathbf{Pl}(0,31,0,22,0,1)_{38250}$$

$$\ell_{1023} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082468} = \left[\begin{array}{cccc} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082468} = \mathbf{Pl}(0,3,0,1,0,1)_{36899}$$

$$\ell_{1024} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{30} \end{array}\right]_{1083013} = \left[\begin{array}{cccc} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 18 \end{array}\right]_{1083013} = \mathbf{Pl}(0,19,0,18,0,1)_{37986}$$

$$\ell_{1025} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{20} \end{array}\right]_{1083040} = \left[\begin{array}{cccc} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 12 \end{array}\right]_{1083040} = \mathbf{Pl}(0,20,0,12,0,1)_{37609}$$

$$\ell_{1026} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{29} \end{array}\right]_{1083268} = \left[\begin{array}{cccc} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 9 \end{array}\right]_{1083268} = \mathbf{Pl}(0,27,0,9,0,1)_{37427}$$

$$\ell_{1027} = \left[\begin{array}{cccc} 0 & 1 & \eta^{17} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1083027} = \left[\begin{array}{cccc} 0 & 1 & 19 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1083027} = \mathbf{Pl}(0,19,0,1,0,0)_{115}$$

$$\ell_{1028} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{14} \end{array}\right]_{1082430} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 29 \end{array}\right]_{1082430} = \mathbf{Pl}(0,1,0,29,0,1)_{38661}$$

$$\ell_{1029} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{13} \end{array}\right]_{1082990} = \left[\begin{array}{cccc} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 28 \end{array}\right]_{1082990} = \mathbf{Pl}(0,18,0,28,0,1)_{38615}$$

$$\ell_{1030} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{27} \end{array}\right]_{1083303} = \left[\begin{array}{cccc} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 11 \end{array}\right]_{1083303} = \mathbf{Pl}(0,28,0,11,0,1)_{37554}$$

$$\ell_{1031} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{12} \end{array}\right]_{1082679} = \left[\begin{array}{cccc} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 14 \end{array}\right]_{1082679} = \mathbf{Pl}(0,9,0,14,0,1)_{37724}$$

$$\ell_{1032} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{9} \end{array}\right]_{1083153} = \left[\begin{array}{cccc} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 26 \end{array}\right]_{1083153} = \mathbf{Pl}(0,23,0,26,0,1)_{38494}$$

$$\ell_{1033} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{26} \end{array}\right]_{1082853} = \left[\begin{array}{cccc} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 23 \end{array}\right]_{1082853} = \mathbf{Pl}(0,14,0,23,0,1)_{38296}$$

$$\ell_{1034} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{3} \end{array}\right]_{1082772} = \left[\begin{array}{cccc} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 8 \end{array}\right]_{1082772} = \mathbf{Pl}(0,12,0,8,0,1)_{37349}$$

$$\ell_{1035} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{11} \end{array}\right]_{1083101} = \left[\begin{array}{cccc} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 7 \end{array}\right]_{1083101} = \mathbf{Pl}(0,22,0,7,0,1)_{37296}$$

$$\ell_{1036} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{16} \end{array}\right]_{1082527} = \left[\begin{array}{cccc} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 27 \end{array}\right]_{1082527} = \mathbf{Pl}(0,4,0,27,0,1)_{38538}$$

$$\ell_{1037} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{8} \end{array}\right]_{1083206} = \left[\begin{array}{cccc} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 13 \end{array}\right]_{1083206} = \mathbf{Pl}(0,25,0,13,0,1)_{37677}$$

$$\ell_{1038} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{18} \end{array}\right]_{1082899} = \left[\begin{array}{cccc} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 3 \end{array}\right]_{1082899} = \mathbf{Pl}(0,16,0,3,0,1)_{37038}$$

$$\ell_{1039} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{25} \end{array}\right]_{1082624} = \left[\begin{array}{cccc} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 25 \end{array}\right]_{1082624} = \mathbf{Pl}(0,7,0,25,0,1)_{38415}$$

$$\ell_{1040} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{6} \end{array}\right]_{1082873} = \left[\begin{array}{cccc} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 10 \end{array}\right]_{1082873} = \mathbf{Pl}(0,15,0,10,0,1)_{37478}$$

$$\ell_{1041} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{2} \end{array}\right]_{1082570} = \left[\begin{array}{cccc} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 4 \end{array}\right]_{1082570} = \mathbf{Pl}(0,6,0,4,0,1)_{37091}$$

$$\ell_{1042} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{22} \end{array}\right]_{1082818} = \left[\begin{array}{cccc} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 21 \end{array}\right]_{1082818} = \mathbf{Pl}(0,13,0,21,0,1)_{38169}$$

$$\ell_{1043} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{10} \end{array}\right]_{1082748} = \left[\begin{array}{cccc} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 17 \end{array}\right]_{1082748} = \mathbf{Pl}(0,11,0,17,0,1)_{37915}$$

$$\ell_{1044} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{4} \end{array}\right]_{1083176} = \left[\begin{array}{cccc} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 16 \end{array}\right]_{1083176} = \mathbf{Pl}(0,24,0,16,0,1)_{37865}$$

$$\ell_{1045} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{15} \end{array}\right]_{1082465} = \left[\begin{array}{cccc} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 31 \end{array}\right]_{1082465} = \mathbf{Pl}(0,2,0,31,0,1)_{38788}$$

$$\ell_{1046} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{28} \end{array}\right]_{1083347} = \left[\begin{array}{cccc} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 22 \end{array}\right]_{1083347} = \mathbf{Pl}(0,29,0,22,0,1)_{38248}$$

$$\ell_{1047} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{7} \end{array}\right]_{1083378} = \left[\begin{array}{cccc} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 20 \end{array}\right]_{1083378} = \mathbf{Pl}(0,30,0,20,0,1)_{38123}$$

$$\ell_{1048} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{23} \end{array}\right]_{1083241} = \left[\begin{array}{cccc} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 15 \end{array}\right]_{1083241} = \mathbf{Pl}(0,26,0,15,0,1)_{37804}$$

$$\ell_{1049} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{17} \end{array}\right]_{1082651} = \left[\begin{array}{cccc} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 19 \end{array}\right]_{1082651} = \mathbf{Pl}(0,8,0,19,0,1)_{38038}$$

$$\ell_{1050} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{19} \end{array}\right]_{1082539} = \left[\begin{array}{cccc} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 6 \end{array}\right]_{1082539} = \mathbf{Pl}(0,5,0,6,0,1)_{37216}$$

$$\ell_{1051} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{24} \end{array}\right]_{1082959} = \left[\begin{array}{cccc} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 30 \end{array}\right]_{1082959} = \mathbf{Pl}(0,17,0,30,0,1)_{38740}$$

$$\ell_{1052} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{20} \end{array}\right]_{1082710} = \left[\begin{array}{cccc} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 12 \end{array}\right]_{1082710} = \mathbf{Pl}(0,10,0,12,0,1)_{37599}$$

$$\ell_{1053} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{5} \end{array}\right]_{1083066} = \left[\begin{array}{cccc} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 5 \end{array}\right]_{1083066} = \mathbf{Pl}(0,21,0,5,0,1)_{37169}$$

$$\ell_{1054} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{29} \end{array}\right]_{1083400} = \left[\begin{array}{cccc} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 9 \end{array}\right]_{1083400} = \mathbf{Pl}(0,31,0,9,0,1)_{37431}$$

$$\ell_{1055} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta \end{array}\right]_{1082469} = \left[\begin{array}{cccc} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 2 \end{array}\right]_{1082469} = \mathbf{Pl}(0,3,0,2,0,1)_{36962}$$

$$\ell_{1056} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082996} = \left[\begin{array}{cccc} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 1 \end{array}\right]_{1082996} = \mathbf{Pl}(0,19,0,1,0,1)_{36915}$$

$$\ell_{1057} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{21} \end{array}\right]_{1083052} = \left[\begin{array}{cccc} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 24 \end{array}\right]_{1083052} = \mathbf{Pl}(0,20,0,24,0,1)_{38365}$$

$$\ell_{1058} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{30} \end{array}\right]_{1083277} = \left[\begin{array}{cccc} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 18 \end{array}\right]_{1083277} = \mathbf{Pl}(0,27,0,18,0,1)_{37994}$$

$$\ell_{1059} = \left[\begin{array}{cccc} 0 & 1 & \eta^{7} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1083060} = \left[\begin{array}{cccc} 0 & 1 & 20 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1083060} = \mathbf{Pl}(0,20,0,1,0,0)_{116}$$

$$\ell_{1060} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{24} \end{array}\right]_{1082431} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 30 \end{array}\right]_{1082431} = \mathbf{Pl}(0,1,0,30,0,1)_{38724}$$

$$\ell_{1061} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{23} \end{array}\right]_{1082977} = \left[\begin{array}{cccc} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 15 \end{array}\right]_{1082977} = \mathbf{Pl}(0,18,0,15,0,1)_{37796}$$

$$\ell_{1062} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{6} \end{array}\right]_{1083302} = \left[\begin{array}{cccc} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 10 \end{array}\right]_{1083302} = \mathbf{Pl}(0,28,0,10,0,1)_{37491}$$

$$\ell_{1063} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{22} \end{array}\right]_{1082686} = \left[\begin{array}{cccc} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 21 \end{array}\right]_{1082686} = \mathbf{Pl}(0,9,0,21,0,1)_{38165}$$

$$\ell_{1064} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{19} \end{array}\right]_{1083133} = \left[\begin{array}{cccc} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 6 \end{array}\right]_{1083133} = \mathbf{Pl}(0,23,0,6,0,1)_{37234}$$

$$\ell_{1065} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{5} \end{array}\right]_{1082835} = \left[\begin{array}{cccc} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 5 \end{array}\right]_{1082835} = \mathbf{Pl}(0,14,0,5,0,1)_{37162}$$

$$\ell_{1066} = \begin{bmatrix} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{13} \end{bmatrix}_{1082792} = \begin{bmatrix} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 28 \end{bmatrix}_{1082792} = \mathbf{Pl}(0,12,0,28,0,1)_{38609}$$

$$\ell_{1067} = \begin{bmatrix} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1083118} = \begin{bmatrix} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1083118} = \mathbf{Pl}(0,22,0,24,0,1)_{38367}$$

$$\ell_{1068} = \begin{bmatrix} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{26} \end{bmatrix}_{1082523} = \begin{bmatrix} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 23 \end{bmatrix}_{1082523} = \mathbf{Pl}(0,4,0,23,0,1)_{38286}$$

$$\ell_{1069} = \begin{bmatrix} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1083196} = \begin{bmatrix} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1083196} = \mathbf{Pl}(0,25,0,3,0,1)_{37047}$$

$$\ell_{1070} = \begin{bmatrix} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{28} \end{bmatrix}_{1082918} = \begin{bmatrix} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 22 \end{bmatrix}_{1082918} = \mathbf{Pl}(0,16,0,22,0,1)_{38235}$$

$$\ell_{1071} = \begin{bmatrix} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{4} \end{bmatrix}_{1082615} = \begin{bmatrix} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 16 \end{bmatrix}_{1082615} = \mathbf{Pl}(0,7,0,16,0,1)_{37848}$$

$$\ell_{1072} = \begin{bmatrix} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1082890} = \begin{bmatrix} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1082890} = \mathbf{Pl}(0,15,0,27,0,1)_{38549}$$

$$\ell_{1073} = \begin{bmatrix} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{12} \end{bmatrix}_{1082580} = \begin{bmatrix} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 14 \end{bmatrix}_{1082580} = \mathbf{Pl}(0,6,0,14,0,1)_{37721}$$

$$\ell_{1074} = \begin{bmatrix} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1082799} = \begin{bmatrix} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1082799} = \mathbf{Pl}(0,13,0,2,0,1)_{36972}$$

$$\ell_{1075} = \begin{bmatrix} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1082743} = \begin{bmatrix} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1082743} = \mathbf{Pl}(0,11,0,12,0,1)_{37600}$$

$$\ell_{1076} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{14} \end{bmatrix}_{1083189} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 29 \end{bmatrix}_{1083189} = \mathbf{Pl}(0,24,0,29,0,1)_{38684}$$

$$\ell_{1077} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{25} \end{bmatrix}_{1082459} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 25 \end{bmatrix}_{1082459} = \mathbf{Pl}(0,2,0,25,0,1)_{38410}$$

$$\ell_{1078} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{7} \end{bmatrix}_{1083345} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 20 \end{bmatrix}_{1083345} = \mathbf{Pl}(0,29,0,20,0,1)_{38122}$$

$$\ell_{1079} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{17} \end{bmatrix}_{1083377} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 19 \end{bmatrix}_{1083377} = \mathbf{Pl}(0,30,0,19,0,1)_{38060}$$

$$\ell_{1080} = \begin{bmatrix} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{2} \end{bmatrix}_{1083230} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1083230} = \mathbf{Pl}(0,26,0,4,0,1)_{37111}$$

$$\ell_{1081} = \begin{bmatrix} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{27} \end{bmatrix}_{1082643} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 11 \end{bmatrix}_{1082643} = \mathbf{Pl}(0,8,0,11,0,1)_{37534}$$

$$\ell_{1082} = \begin{bmatrix} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1082542} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1082542} = \mathbf{Pl}(0,5,0,9,0,1)_{37405}$$

$$\ell_{1083} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{3} \end{bmatrix}_{1082937} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 8 \end{bmatrix}_{1082937} = \mathbf{Pl}(0,17,0,8,0,1)_{37354}$$

$$\ell_{1084} = \begin{bmatrix} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1082716} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1082716} = \mathbf{Pl}(0,10,0,18,0,1)_{37977}$$

$$\ell_{1085} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{15} \end{bmatrix}_{1083092} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 31 \end{bmatrix}_{1083092} = \mathbf{Pl}(0,21,0,31,0,1)_{38807}$$

$$\ell_{1086} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{8} \end{bmatrix}_{1083404} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1083404} = \mathbf{Pl}(0,31,0,13,0,1)_{37683}$$

$$\ell_{1087} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{11} \end{array}\right]_{1082474} = \left[\begin{array}{cccc} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 7 \end{array}\right]_{1082474} = \mathbf{Pl}(0,3,0,7,0,1)_{37277}$$

$$\ell_{1088} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta^{10} \end{array}\right]_{1083012} = \left[\begin{array}{cccc} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 17 \end{array}\right]_{1083012} = \mathbf{Pl}(0,19,0,17,0,1)_{37923}$$

$$\ell_{1089} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & 1 \end{array}\right]_{1083029} = \left[\begin{array}{cccc} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 1 \end{array}\right]_{1083029} = \mathbf{Pl}(0,20,0,1,0,1)_{36916}$$

$$\ell_{1090} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & \eta^{9} \end{array}\right]_{1083285} = \left[\begin{array}{cccc} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 26 \end{array}\right]_{1083285} = \mathbf{Pl}(0,27,0,26,0,1)_{38498}$$

$$\ell_{1091} = \left[\begin{array}{cccc} 0 & 1 & \eta^{16} & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1083291} = \left[\begin{array}{cccc} 0 & 1 & 27 & 0 \\ 0 & 0 & 0 & 1 \end{array}\right]_{1083291} = \mathbf{Pl}(0,27,0,1,0,0)_{123}$$

$$\ell_{1092} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \eta^{15} \end{array}\right]_{1082432} = \left[\begin{array}{cccc} 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 31 \end{array}\right]_{1082432} = \mathbf{Pl}(0,1,0,31,0,1)_{38787}$$

$$\ell_{1093} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{30} \\ 0 & 0 & 1 & \eta^{14} \end{array}\right]_{1082991} = \left[\begin{array}{cccc} 0 & 1 & 0 & 18 \\ 0 & 0 & 1 & 29 \end{array}\right]_{1082991} = \mathbf{Pl}(0,18,0,29,0,1)_{38678}$$

$$\ell_{1094} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{13} \\ 0 & 0 & 1 & \eta^{28} \end{array}\right]_{1083314} = \left[\begin{array}{cccc} 0 & 1 & 0 & 28 \\ 0 & 0 & 1 & 22 \end{array}\right]_{1083314} = \mathbf{Pl}(0,28,0,22,0,1)_{38247}$$

$$\ell_{1095} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{29} \\ 0 & 0 & 1 & \eta^{13} \end{array}\right]_{1082693} = \left[\begin{array}{cccc} 0 & 1 & 0 & 9 \\ 0 & 0 & 1 & 28 \end{array}\right]_{1082693} = \mathbf{Pl}(0,9,0,28,0,1)_{38606}$$

$$\ell_{1096} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{26} \\ 0 & 0 & 1 & \eta^{10} \end{array}\right]_{1083144} = \left[\begin{array}{cccc} 0 & 1 & 0 & 23 \\ 0 & 0 & 1 & 17 \end{array}\right]_{1083144} = \mathbf{Pl}(0,23,0,17,0,1)_{37927}$$

$$\ell_{1097} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{12} \\ 0 & 0 & 1 & \eta^{27} \end{array}\right]_{1082841} = \left[\begin{array}{cccc} 0 & 1 & 0 & 14 \\ 0 & 0 & 1 & 11 \end{array}\right]_{1082841} = \mathbf{Pl}(0,14,0,11,0,1)_{37540}$$

$$\ell_{1098} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{20} \\ 0 & 0 & 1 & \eta^{4} \end{array}\right]_{1082780} = \left[\begin{array}{cccc} 0 & 1 & 0 & 12 \\ 0 & 0 & 1 & 16 \end{array}\right]_{1082780} = \mathbf{Pl}(0,12,0,16,0,1)_{37853}$$

$$\ell_{1099} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{28} \\ 0 & 0 & 1 & \eta^{12} \end{array}\right]_{1083108} = \left[\begin{array}{cccc} 0 & 1 & 0 & 22 \\ 0 & 0 & 1 & 14 \end{array}\right]_{1083108} = \mathbf{Pl}(0,22,0,14,0,1)_{37737}$$

$$\ell_{1100} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{2} \\ 0 & 0 & 1 & \eta^{17} \end{array}\right]_{1082519} = \left[\begin{array}{cccc} 0 & 1 & 0 & 4 \\ 0 & 0 & 1 & 19 \end{array}\right]_{1082519} = \mathbf{Pl}(0,4,0,19,0,1)_{38034}$$

$$\ell_{1101} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{25} \\ 0 & 0 & 1 & \eta^{9} \end{array}\right]_{1083219} = \left[\begin{array}{cccc} 0 & 1 & 0 & 25 \\ 0 & 0 & 1 & 26 \end{array}\right]_{1083219} = \mathbf{Pl}(0,25,0,26,0,1)_{38496}$$

$$\ell_{1102} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{4} \\ 0 & 0 & 1 & \eta^{19} \end{array}\right]_{1082902} = \left[\begin{array}{cccc} 0 & 1 & 0 & 16 \\ 0 & 0 & 1 & 6 \end{array}\right]_{1082902} = \mathbf{Pl}(0,16,0,6,0,1)_{37227}$$

$$\ell_{1103} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{11} \\ 0 & 0 & 1 & \eta^{26} \end{array}\right]_{1082622} = \left[\begin{array}{cccc} 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 23 \end{array}\right]_{1082622} = \mathbf{Pl}(0,7,0,23,0,1)_{38289}$$

$$\ell_{1104} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{23} \\ 0 & 0 & 1 & \eta^{7} \end{array}\right]_{1082883} = \left[\begin{array}{cccc} 0 & 1 & 0 & 15 \\ 0 & 0 & 1 & 20 \end{array}\right]_{1082883} = \mathbf{Pl}(0,15,0,20,0,1)_{38108}$$

$$\ell_{1105} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{19} \\ 0 & 0 & 1 & \eta^{3} \end{array}\right]_{1082574} = \left[\begin{array}{cccc} 0 & 1 & 0 & 6 \\ 0 & 0 & 1 & 8 \end{array}\right]_{1082574} = \mathbf{Pl}(0,6,0,8,0,1)_{37343}$$

$$\ell_{1106} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{8} \\ 0 & 0 & 1 & \eta^{23} \end{array}\right]_{1082812} = \left[\begin{array}{cccc} 0 & 1 & 0 & 13 \\ 0 & 0 & 1 & 15 \end{array}\right]_{1082812} = \mathbf{Pl}(0,13,0,15,0,1)_{37791}$$

$$\ell_{1107} = \left[\begin{array}{cccc} 0 & 1 & 0 & \eta^{27} \\ 0 & 0 & 1 & \eta^{11} \end{array}\right]_{1082738} = \left[\begin{array}{cccc} 0 & 1 & 0 & 11 \\ 0 & 0 & 1 & 7 \end{array}\right]_{1082738} = \mathbf{Pl}(0,11,0,7,0,1)_{37285}$$

$$\ell_{1108} = \begin{bmatrix} 0 & 1 & 0 & \eta^{21} \\ 0 & 0 & 1 & \eta^{5} \end{bmatrix}_{1083165} = \begin{bmatrix} 0 & 1 & 0 & 24 \\ 0 & 0 & 1 & 5 \end{bmatrix}_{1083165} = \mathbf{Pl}(0,24,0,5,0,1)_{37172}$$

$$\ell_{1109} = \begin{bmatrix} 0 & 1 & 0 & \eta \\ 0 & 0 & 1 & \eta^{16} \end{bmatrix}_{1082461} = \begin{bmatrix} 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 27 \end{bmatrix}_{1082461} = \mathbf{Pl}(0,2,0,27,0,1)_{38536}$$

$$\ell_{1110} = \begin{bmatrix} 0 & 1 & 0 & \eta^{14} \\ 0 & 0 & 1 & \eta^{29} \end{bmatrix}_{1083334} = \begin{bmatrix} 0 & 1 & 0 & 29 \\ 0 & 0 & 1 & 9 \end{bmatrix}_{1083334} = \mathbf{Pl}(0,29,0,9,0,1)_{37429}$$

$$\ell_{1111} = \begin{bmatrix} 0 & 1 & 0 & \eta^{24} \\ 0 & 0 & 1 & \eta^{8} \end{bmatrix}_{1083371} = \begin{bmatrix} 0 & 1 & 0 & 30 \\ 0 & 0 & 1 & 13 \end{bmatrix}_{1083371} = \mathbf{Pl}(0,30,0,13,0,1)_{37682}$$

$$\ell_{1112} = \begin{bmatrix} 0 & 1 & 0 & \eta^{9} \\ 0 & 0 & 1 & \eta^{24} \end{bmatrix}_{1083256} = \begin{bmatrix} 0 & 1 & 0 & 26 \\ 0 & 0 & 1 & 30 \end{bmatrix}_{1083256} = \mathbf{Pl}(0,26,0,30,0,1)_{38749}$$

$$\ell_{1113} = \begin{bmatrix} 0 & 1 & 0 & \eta^{3} \\ 0 & 0 & 1 & \eta^{18} \end{bmatrix}_{1082635} = \begin{bmatrix} 0 & 1 & 0 & 8 \\ 0 & 0 & 1 & 3 \end{bmatrix}_{1082635} = \mathbf{Pl}(0,8,0,3,0,1)_{37030}$$

$$\ell_{1114} = \begin{bmatrix} 0 & 1 & 0 & \eta^{5} \\ 0 & 0 & 1 & \eta^{20} \end{bmatrix}_{1082545} = \begin{bmatrix} 0 & 1 & 0 & 5 \\ 0 & 0 & 1 & 12 \end{bmatrix}_{1082545} = \mathbf{Pl}(0,5,0,12,0,1)_{37594}$$

$$\ell_{1115} = \begin{bmatrix} 0 & 1 & 0 & \eta^{10} \\ 0 & 0 & 1 & \eta^{25} \end{bmatrix}_{1082954} = \begin{bmatrix} 0 & 1 & 0 & 17 \\ 0 & 0 & 1 & 25 \end{bmatrix}_{1082954} = \mathbf{Pl}(0,17,0,25,0,1)_{38425}$$

$$\ell_{1116} = \begin{bmatrix} 0 & 1 & 0 & \eta^{6} \\ 0 & 0 & 1 & \eta^{21} \end{bmatrix}_{1082722} = \begin{bmatrix} 0 & 1 & 0 & 10 \\ 0 & 0 & 1 & 24 \end{bmatrix}_{1082722} = \mathbf{Pl}(0,10,0,24,0,1)_{38355}$$

$$\ell_{1117} = \begin{bmatrix} 0 & 1 & 0 & \eta^{22} \\ 0 & 0 & 1 & \eta^{6} \end{bmatrix}_{1083071} = \begin{bmatrix} 0 & 1 & 0 & 21 \\ 0 & 0 & 1 & 10 \end{bmatrix}_{1083071} = \mathbf{Pl}(0,21,0,10,0,1)_{37484}$$

$$\ell_{1118} = \begin{bmatrix} 0 & 1 & 0 & \eta^{15} \\ 0 & 0 & 1 & \eta^{30} \end{bmatrix}_{1083409} = \begin{bmatrix} 0 & 1 & 0 & 31 \\ 0 & 0 & 1 & 18 \end{bmatrix}_{1083409} = \mathbf{Pl}(0,31,0,18,0,1)_{37998}$$

$$\ell_{1119} = \begin{bmatrix} 0 & 1 & 0 & \eta^{18} \\ 0 & 0 & 1 & \eta^{2} \end{bmatrix}_{1082471} = \begin{bmatrix} 0 & 1 & 0 & 3 \\ 0 & 0 & 1 & 4 \end{bmatrix}_{1082471} = \mathbf{Pl}(0,3,0,4,0,1)_{37088}$$

$$\ell_{1120} = \begin{bmatrix} 0 & 1 & 0 & \eta^{17} \\ 0 & 0 & 1 & \eta \end{bmatrix}_{1082997} = \begin{bmatrix} 0 & 1 & 0 & 19 \\ 0 & 0 & 1 & 2 \end{bmatrix}_{1082997} = \mathbf{Pl}(0,19,0,2,0,1)_{36978}$$

$$\ell_{1121} = \begin{bmatrix} 0 & 1 & 0 & \eta^{7} \\ 0 & 0 & 1 & \eta^{22} \end{bmatrix}_{1083049} = \begin{bmatrix} 0 & 1 & 0 & 20 \\ 0 & 0 & 1 & 21 \end{bmatrix}_{1083049} = \mathbf{Pl}(0,20,0,21,0,1)_{38176}$$

$$\ell_{1122} = \begin{bmatrix} 0 & 1 & 0 & \eta^{16} \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1083260} = \begin{bmatrix} 0 & 1 & 0 & 27 \\ 0 & 0 & 1 & 1 \end{bmatrix}_{1083260} = \mathbf{Pl}(0,27,0,1,0,1)_{36923}$$

Rank of lines: (0, 1024, 1082368, 1082400, 33824, 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, 34848, 1082401, 1082962, 1083292, 1082665, 1083127, 1082830, 1082764, 1083094, 1082500, 1083193, 1082896, 1082599, ...1082997, 1083049, 1083260)

Rank of points on Klein quadric: (0, 2, 34849, 65, 66, 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, 34, 34881, 34898, 34908, 34889, 34903, 34894, 34892, 34902, 34884, 34905, 34896, 34887, ...36978, 38176, 36923)

Eckardt Points

The surface has 0 Eckardt points:

Double Points

The surface has 1056 Double points:
Too many to print.

Single Points

The surface has 0 single points:
The single points on the surface are:

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 2113 points:
Too many to print.