$\exists x_2, x_3, y_2, y_3, z_{11}, \ldots, z_{44}, \exists u_1, \ldots, u_{12}, v_1, \ldots, v_{12}:$
$0 \geq x_2 \geq x_3 \geq 1,$
$0 \geq y_2 \geq y_3 \geq 1,$
$u_9 \geq 0,$
$u_1 x_2 + u_5 z_{21} + u_9 \geq 0,$
$u_1 x_3 + u_5 z_{31} + u_9 \geq 0,$
$u_1 + u_9 \geq 0,$
$u_{10} + u_6 z_{12} \geq 0,$
$u_{10} + u_2 x_2 + u_6 z_{22} \geq 0,$
$u_{10} + u_2 x_3 + u_6 z_{32} \geq 0,$
$u_{10} + u_2 + u_6 z_{42} \geq 0,$
$u_{11} + u_7 z_{13} \geq 0,$
$u_{11} + u_3 x_2 + u_7 z_{23} \geq 0,$
$u_{11} + u_3 x_3 + u_7 z_{33} \geq 0,$
$u_{11} + u_3 + u_7 z_{43} \geq 0,$
$u_{12} + u_8 \geq 0,$
$u_{12} + u_4 x_2 + u_8 z_{24} \geq 0,$
$u_{12} + u_4 x_3 + u_8 z_{34} \geq 0,$
$u_{12} + u_4 \geq 0,$
$-u_6 y_2 - u_7 y_3 - u_8 \geq 0,$
$-u_1 - u_2 - u_3 - u_4 \geq 0,$
$-u_5 - u_6 - u_7 - u_8 \geq 0,$
$u_6 y_2 + u_7 y_3 + u_8 \geq 0,$
$u_1 + u_2 + u_3 + u_4 \geq 0,$
$u_5 + u_6 + u_7 + u_8 \geq 0,$
$v_9 \geq 0,$
$v_1 y_2 + v_5 z_{12} + v_9 \geq 0,$
$v_1 y_3 + v_5 z_{13} + v_9 \geq 0,$
$v_1 + v_5 + v_9 \geq 0,$
$v_{10} + v_6 z_{21} \geq 0,$
$v_{10} + v_2 y_2 + v_6 z_{22} \geq 0,$
$v_{10} + v_2 y_3 + v_6 z_{23} \geq 0,$
$v_{10} + v_2 + v_6 z_{24} \geq 0,$
$v_{11} + v_7 z_{31} \geq 0,$
$v_{11} + v_3 y_2 + v_7 z_{32} \geq 0,$
$v_{11} + v_3 y_3 + v_7 z_{33} \geq 0,$
$v_{11} + v_3 + v_7 z_{34} \geq 0,$
$v_{12} \geq 0,$
$v_{12} + v_4 y_2 + v_8 z_{42} \geq 0,$
$v_{12} + v_4 y_3 + v_8 z_{43} \geq 0,$
$v_{12} + v_4 \geq 0,$
$-v_6 x_2 - v_7 x_3 - v_8 \geq 0,$
$-v_1 - v_2 - v_3 - v_4 \geq 0,$
$-v_5 - v_6 - v_7 - v_8 \geq 0,$
$v_6 x_2 + v_7 x_3 + v_8 \geq 0,$
$v_1 + v_2 + v_3 + v_4 \geq 0,$
$v_5 + v_6 + v_7 + v_8 \geq 0,$
$u_{10} + u_{11} + u_{12} + u_9 < 0,$
$v_{10} + v_{11} + v_{12} + v_9 < 0,$