$c_{e_1}^{s_4} = 2^n + 2$

$c_{e_2}^{s_4} = 2^n - 1$

$c_{e_6}^{s_4} = 2^n$

$c_{e_5}^{s_4} = 2^n + 1$

$c_{e_8}^{s_4} = 0$

$c_{e_7}^{s_4} = 2^n$

$c_{e_3}^{s_4} = 2^n + 2$

$c_{e_4}^{s_4} = 2^n - 1$