$$\mathrm{SC}_4(n) = \frac{15! \cdot 12^{15}}{6} \left(24! \cdot 32! \cdot 2^{88 + \frac{n-1}{2}} \cdot 6^{41} \right)^{(n \bmod 2)} \left(\frac{64!}{2} \cdot 3^{63} \right)^{2 \left\lfloor \frac{n-2}{2} \right\rfloor} \cdot$$

$$\left(48! \cdot 2^{94} \right)^{(n \bmod 2)\left(\frac{n-3}{2} \right)} \left(96! \cdot 2^{94} \right)^{\left\lfloor \frac{n-2}{2} \right\rfloor + (n \bmod 2)(n-3)} \cdot$$

$$\left(\frac{192!}{2} \right)^{\left\lfloor \frac{n-4}{2} \right\rfloor \left\lfloor \frac{n-2}{2} \right\rfloor + \frac{(n \bmod 2)(n-5)(n-3)(n-1)}{24} + \frac{\left| (n \bmod 2) - 1 \right| \binom{n-2}{3}}{4}}$$