$$\Phi_1 \;=\; c_2 = (c_{20}^0)/(c_{00}^0)^{5/3}$$

$$\Phi_2 \;=\; c_2(2,2)_0^0 = \sqrt{\frac{1}{5}}((c_{22}^0)^2 - 2c_{22}^{-1}c_{22}^1 + 2c_{22}^{-2}c_{22}^2)/(c_{00}^0)^{10/3}$$

$$\Phi_3 \;=\; c_2(2,2)_2c_2 = \sqrt{\frac{1}{35}}(-\sqrt{2}(c_{22}^0)^3 + 3\sqrt{2}c_{22}^{-1}c_{22}^0c_{22}^1 - 3\sqrt{3}(c_{22}^{-1})^2c_{22}^2 - 3\sqrt{3}c_{22}^{-2}(c_{22}^1)^2$$
$$+6\sqrt{2}c_{22}^{-2}c_{22}^0c_{22}^2)/(c_{00}^0)^5$$

$$\Phi_4 \;=\; c_3(3,3)_0^0 = \sqrt{\frac{1}{7}}(-(c_{33}^0)^2 + 2c_{33}^{-1}c_{33}^1 - 2c_{33}^{-2}c_{33}^2 + 2c_{33}^{-3}c_{33}^3)/(c_{00}^0)^4$$

$$\Phi_5 \;=\; c_3(1,1)_0^0 = \sqrt{\frac{1}{3}}(-(c_{31}^0)^2 + 2c_{31}^{-1}c_{31}^1)/(c_{00}^0)^4$$

$$\Phi_6 \;=\; c_3(3,3)_2c_2 = \sqrt{\frac{1}{105}}(\sqrt{6}c_{22}^2(c_{33}^{-1})^2 - 2\sqrt{5}c_{22}^2c_{33}^{-2}c_{33}^0 + \sqrt{10}c_{22}^2c_{33}^{-3}c_{33}^1 - \sqrt{2}c_{22}^1c_{33}^{-1}c_{33}^0$$
$$+\sqrt{15}c_{22}^1c_{33}^{-2}c_{33}^1 - 5c_{22}^1c_{33}^{-3}c_{33}^2 + 2c_{22}^0(c_{33}^0)^2 - 3c_{22}^0c_{33}^{-1}c_{33}^1 + 5c_{22}^0c_{33}^{-3}c_{33}^3$$
$$-\sqrt{2}c_{22}^{-1}c_{33}^0c_{33}^1 + \sqrt{15}c_{22}^{-1}c_{33}^{-1}c_{33}^2 - 5c_{22}^{-1}c_{33}^{-2}c_{33}^3 + \sqrt{6}c_{22}^{-2}(c_{33}^1)^2 - 2\sqrt{5}c_{22}^{-2}c_{33}^0c_{33}^2$$
$$+\sqrt{10}c_{22}^{-2}c_{33}^{-1}c_{33}^3)/(c_{00}^0)^{17/3}$$

$$\Phi_7 \;=\; c_3(3,1)_2c_2 = \sqrt{\frac{1}{105}}(\sqrt{15}c_{22}^2c_{31}^1c_{33}^{-3} - \sqrt{5}c_{22}^2c_{31}^0c_{33}^{-2} + c_{22}^2c_{31}^{-1}c_{33}^{-1} - \sqrt{10}c_{22}^1c_{31}^1c_{33}^{-2}$$
$$+2\sqrt{2}c_{22}^1c_{31}^0c_{33}^{-1} - \sqrt{3}c_{22}^1c_{31}^{-1}c_{33}^0 + \sqrt{6}c_{22}^0c_{31}^1c_{33}^{-1} - 3c_{22}^0c_{31}^0c_{33}^0 + \sqrt{6}c_{22}^0c_{31}^{-1}c_{33}^1$$
$$-\sqrt{3}c_{22}^{-1}c_{31}^1c_{33}^0 + 2\sqrt{2}c_{22}^{-1}c_{31}^0c_{33}^1 - \sqrt{10}c_{22}^{-1}c_{31}^{-1}c_{33}^2 + c_{22}^{-2}c_{31}^1c_{33}^1 - \sqrt{5}c_{22}^{-2}c_{31}^0c_{33}^2$$
$$+\sqrt{15}c_{22}^{-2}c_{31}^{-1}c_{33}^3)/(c_{00}^0)^{17/3}$$

$$\Phi_8 \;=\; c_3(1,1)_2c_2 = \sqrt{\frac{1}{15}}(\sqrt{3}c_{22}^2(c_{31}^{-1})^2 - \sqrt{6}c_{22}^1c_{31}^{-1}c_{31}^0 + \sqrt{2}c_{22}^0(c_{31}^0)^2 + \sqrt{2}c_{22}^0c_{31}^{-1}c_{31}^1$$
$$-\sqrt{6}c_{22}^{-1}c_{31}^0c_{31}^1 + \sqrt{3}c_{22}^{-2}(c_{31}^1)^2)/(c_{00}^0)^{17/3}$$

$$\Phi_9 \;=\; c_3(3,3)_2c_2(2,2)_2 = \frac{1}{7}\sqrt{\frac{2}{15}}(-3(c_{22}^1)^2(c_{33}^{-1})^2 + \sqrt{30}(c_{22}^1)^2c_{33}^{-2}c_{33}^0 - \sqrt{15}(c_{22}^1)^2c_{33}^{-3}c_{33}^1$$
$$+2\sqrt{6}c_{22}^0c_{22}^2(c_{33}^{-1})^2 - 4\sqrt{5}c_{22}^0c_{22}^2c_{33}^{-2}c_{33}^0 + 2\sqrt{10}c_{22}^0c_{22}^2c_{33}^{-3}c_{33}^1 + \sqrt{2}c_{22}^0c_{22}^1c_{33}^{-1}c_{33}^0$$
$$-\sqrt{15}c_{22}^0c_{22}^1c_{33}^{-2}c_{33}^1 + 5c_{22}^0c_{22}^1c_{33}^{-3}c_{33}^2 - 2(c_{22}^0)^2(c_{33}^0)^2 + 3(c_{22}^0)^2c_{33}^{-1}c_{33}^1$$
$$-5(c_{22}^0)^2c_{33}^{-3}c_{33}^3 - 2\sqrt{3}c_{22}^{-1}c_{22}^2c_{33}^{-1}c_{33}^0 + 3\sqrt{10}c_{22}^{-1}c_{22}^2c_{33}^{-2}c_{33}^1 - 5\sqrt{6}c_{22}^{-1}c_{22}^2c_{33}^{-3}c_{33}^2$$
$$+2c_{22}^{-1}c_{22}^1(c_{33}^0)^2 - 3c_{22}^{-1}c_{22}^1c_{33}^{-1}c_{33}^1 + 5c_{22}^{-1}c_{22}^1c_{33}^{-3}c_{33}^3 + \sqrt{2}c_{22}^{-1}c_{22}^0c_{33}^0c_{33}^1$$
$$-\sqrt{15}c_{22}^{-1}c_{22}^0c_{33}^{-1}c_{33}^2 + 5c_{22}^{-1}c_{22}^0c_{33}^{-2}c_{33}^3 - 3(c_{22}^{-1})^2(c_{33}^1)^2 + \sqrt{30}(c_{22}^{-1})^2c_{33}^0c_{33}^2$$
$$-\sqrt{15}(c_{22}^{-1})^2c_{33}^{-1}c_{33}^3 + 4c_{22}^{-2}c_{22}^2(c_{33}^0)^2 - 6c_{22}^{-2}c_{22}^2c_{33}^{-1}c_{33}^1 + 10c_{22}^{-2}c_{22}^2c_{33}^{-3}c_{33}^3$$
$$-2\sqrt{3}c_{22}^{-2}c_{22}^1c_{33}^0c_{33}^1 + 3\sqrt{10}c_{22}^{-2}c_{22}^1c_{33}^{-1}c_{33}^2 - 5\sqrt{6}c_{22}^{-2}c_{22}^1c_{33}^{-2}c_{33}^3 + 2\sqrt{6}c_{22}^{-2}c_{22}^0(c_{33}^1)^2$$
$$-4\sqrt{5}c_{22}^{-2}c_{22}^0c_{33}^0c_{33}^2 + 2\sqrt{10}c_{22}^{-2}c_{22}^0c_{33}^{-1}c_{33}^3)/(c_{00}^0)^{22/3}$$

$$\Phi_{10} = c_3^2(3,3)_2 = \frac{1}{21}\sqrt{\frac{1}{5}}(4(c_{33}^0)^4 - 16c_{33}^{-1}(c_{33}^0)^2c_{33}^1 + 21(c_{33}^{-1})^2(c_{33}^1)^2 - 2\sqrt{30}(c_{33}^{-1})^2c_{33}^0c_{33}^2$$
$$+4\sqrt{15}(c_{33}^{-1})^3c_{33}^3 - 2\sqrt{30}c_{33}^{-2}c_{33}^0(c_{33}^1)^2 + 40c_{33}^{-2}(c_{33}^0)^2c_{33}^2 - 30c_{33}^{-2}c_{33}^{-1}c_{33}^1c_{33}^2$$
$$-30\sqrt{2}c_{33}^{-2}c_{33}^{-1}c_{33}^0c_{33}^3 + 10\sqrt{15}(c_{33}^{-2})^2c_{33}^1c_{33}^3 + 4\sqrt{15}c_{33}^{-3}(c_{33}^1)^3 - 30\sqrt{2}c_{33}^{-3}c_{33}^0c_{33}^1c_{33}^2$$
$$+20c_{33}^{-3}(c_{33}^0)^2c_{33}^3 + 10\sqrt{15}c_{33}^{-3}c_{33}^{-1}(c_{33}^2)^2 - 10c_{33}^{-3}c_{33}^{-1}c_{33}^1c_{33}^3 - 50c_{33}^{-3}c_{33}^{-2}c_{33}^2c_{33}^3$$
$$+25(c_{33}^{-3})^2(c_{33}^3)^2)/(c_{00}^0)^8$$

$$\Phi_{11} = c_3(3,3)_2c_3(3,1)_2 = \frac{1}{21}\sqrt{\frac{1}{5}}(\sqrt{6}c_{31}^1c_{33}^{-1}(c_{33}^0)^2 - 2\sqrt{6}c_{31}^1(c_{33}^{-1})^2c_{33}^1 - \sqrt{5}c_{31}^1c_{33}^{-2}c_{33}^0c_{33}^1$$
$$+5\sqrt{6}c_{31}^1c_{33}^{-2}c_{33}^{-1}c_{33}^2 - 5\sqrt{10}c_{31}^1(c_{33}^{-2})^2c_{33}^3 + 4\sqrt{10}c_{31}^1c_{33}^{-3}(c_{33}^1)^2 - 15\sqrt{3}c_{31}^1c_{33}^{-3}c_{33}^0c_{33}^2$$
$$+10\sqrt{6}c_{31}^1c_{33}^{-3}c_{33}^{-1}c_{33}^3 - 6c_{31}^0(c_{33}^0)^3 + 17c_{31}^0c_{33}^{-1}c_{33}^0c_{33}^1 - 3\sqrt{30}c_{31}^0(c_{33}^{-1})^2c_{33}^2$$
$$-3\sqrt{30}c_{31}^0c_{33}^{-2}(c_{33}^1)^2 + 20c_{31}^0c_{33}^{-2}c_{33}^0c_{33}^2 + 5\sqrt{2}c_{31}^0c_{33}^{-2}c_{33}^{-1}c_{33}^3 + 5\sqrt{2}c_{31}^0c_{33}^{-3}c_{33}^1c_{33}^2$$
$$-15c_{31}^0c_{33}^{-3}c_{33}^0c_{33}^3 + \sqrt{6}c_{31}^{-1}(c_{33}^0)^2c_{33}^1 - 2\sqrt{6}c_{31}^{-1}c_{33}^{-1}(c_{33}^1)^2 - \sqrt{5}c_{31}^{-1}c_{33}^{-1}c_{33}^0c_{33}^2$$
$$+4\sqrt{10}c_{31}^{-1}(c_{33}^{-1})^2c_{33}^3 + 5\sqrt{6}c_{31}^{-1}c_{33}^{-2}c_{33}^1c_{33}^2 - 15\sqrt{3}c_{31}^{-1}c_{33}^{-2}c_{33}^0c_{33}^3 - 5\sqrt{10}c_{31}^{-1}c_{33}^{-3}(c_{33}^2)^2$$
$$+10\sqrt{6}c_{31}^{-1}c_{33}^{-3}c_{33}^1c_{33}^3)/(c_{00}^0)^8$$

$$\Phi_{12} = c_3(3,3)_2c_3(1,1)_2 = \frac{1}{3}\sqrt{\frac{2}{35}}(3(c_{31}^1)^2(c_{33}^{-1})^2 - \sqrt{30}(c_{31}^1)^2c_{33}^{-2}c_{33}^0 + \sqrt{15}(c_{31}^1)^2c_{33}^{-3}c_{33}^1$$
$$-\sqrt{6}c_{31}^0c_{31}^1c_{33}^{-1}c_{33}^0 + 3\sqrt{5}c_{31}^0c_{31}^1c_{33}^{-2}c_{33}^1 - 5\sqrt{3}c_{31}^0c_{31}^1c_{33}^{-3}c_{33}^2 + 2(c_{31}^0)^2(c_{33}^0)^2$$
$$-3(c_{31}^0)^2c_{33}^{-1}c_{33}^1 + 5(c_{31}^0)^2c_{33}^{-3}c_{33}^3 + 2c_{31}^{-1}c_{31}^1(c_{33}^0)^2 - 3c_{31}^{-1}c_{31}^1c_{33}^{-1}c_{33}^1$$
$$+5c_{31}^{-1}c_{31}^1c_{33}^{-3}c_{33}^3 - \sqrt{6}c_{31}^{-1}c_{31}^0c_{33}^0c_{33}^1 + 3\sqrt{5}c_{31}^{-1}c_{31}^0c_{33}^{-1}c_{33}^2 - 5\sqrt{3}c_{31}^{-1}c_{31}^0c_{33}^{-2}c_{33}^3$$
$$+3(c_{31}^{-1})^2(c_{33}^1)^2 - \sqrt{30}(c_{31}^{-1})^2c_{33}^0c_{33}^2 + \sqrt{15}(c_{31}^{-1})^2c_{33}^{-1}c_{33}^3)/(c_{00}^0)^8$$

$$\Phi_{13} = c_3(3,1)_2c_3(1,1)_2 = \sqrt{\frac{1}{35}}(\sqrt{5}(c_{31}^1)^3c_{33}^{-3} - \sqrt{15}c_{31}^0(c_{31}^1)^2c_{33}^{-2} + 2\sqrt{3}(c_{31}^0)^2c_{31}^1c_{33}^{-1}$$
$$-\sqrt{2}(c_{31}^0)^3c_{33}^0 + \sqrt{3}c_{31}^{-1}(c_{31}^1)^2c_{33}^{-1} - 3\sqrt{2}c_{31}^{-1}c_{31}^0c_{31}^1c_{33}^0 + 2\sqrt{3}c_{31}^{-1}(c_{31}^0)^2c_{33}^1$$
$$+\sqrt{3}(c_{31}^{-1})^2c_{31}^1c_{33}^1 - \sqrt{15}(c_{31}^{-1})^2c_{31}^0c_{33}^2 + \sqrt{5}(c_{31}^{-1})^3c_{33}^3)/(c_{00}^0)^8$$

$$\Phi_{14} = c_4 = (c_{40}^0)/(c_{00}^0)^{7/3}$$

$$\Phi_{15} = c_4(4,4)_0^0 = \frac{1}{3}((c_{44}^0)^2 - 2c_{44}^{-1}c_{44}^1 + 2c_{44}^{-2}c_{44}^2 - 2c_{44}^{-3}c_{44}^3 + 2c_{44}^{-4}c_{44}^4)/(c_{00}^0)^{14/3}$$

$$\Phi_{16} = c_4(2,2)_0^0 = \sqrt{\frac{1}{5}}((c_{42}^0)^2 - 2c_{42}^{-1}c_{42}^1 + 2c_{42}^{-2}c_{42}^2)/(c_{00}^0)^{14/3}$$

$$\Phi_{17} = c_4(4,4)_2c_2 = \frac{1}{3}\sqrt{\frac{1}{385}}(-5\sqrt{6}c_{22}^2(c_{44}^{-1})^2 + 6\sqrt{15}c_{22}^2c_{44}^{-2}c_{44}^0 - 3\sqrt{42}c_{22}^2c_{44}^{-3}c_{44}^1$$
$$+2\sqrt{42}c_{22}^2c_{44}^{-4}c_{44}^2 + \sqrt{30}c_{22}^1c_{44}^{-1}c_{44}^0 - 9\sqrt{3}c_{22}^1c_{44}^{-2}c_{44}^1 + 5\sqrt{21}c_{22}^1c_{44}^{-3}c_{44}^2$$
$$-14\sqrt{3}c_{22}^1c_{44}^{-4}c_{44}^3 - 10c_{22}^0(c_{44}^0)^2 + 17c_{22}^0c_{44}^{-1}c_{44}^1 - 8c_{22}^0c_{44}^{-2}c_{44}^2 - 7c_{22}^0c_{44}^{-3}c_{44}^3$$
$$+28c_{22}^0c_{44}^{-4}c_{44}^4 + \sqrt{30}c_{22}^{-1}c_{44}^0c_{44}^1 - 9\sqrt{3}c_{22}^{-1}c_{44}^{-1}c_{44}^2 + 5\sqrt{21}c_{22}^{-1}c_{44}^{-2}c_{44}^3 - 14\sqrt{3}c_{22}^{-1}c_{44}^{-3}c_{44}^4$$
$$-5\sqrt{6}c_{22}^{-2}(c_{44}^1)^2 + 6\sqrt{15}c_{22}^{-2}c_{44}^0c_{44}^2 - 3\sqrt{42}c_{22}^{-2}c_{44}^{-1}c_{44}^3 + 2\sqrt{42}c_{22}^{-2}c_{44}^{-2}c_{44}^4)/(c_{00}^0)^{19/3}$$

$$\Phi_{18} = c_4(4,2)_2c_2 = \frac{1}{3}\sqrt{\frac{1}{70}}(\sqrt{70}c_{22}^2c_{42}^2c_{44}^{-4} - \sqrt{35}c_{22}^2c_{42}^1c_{44}^{-3} + \sqrt{15}c_{22}^2c_{42}^0c_{44}^{-2} - \sqrt{5}c_{22}^2c_{42}^{-1}c_{44}^{-1}$$
$$+ c_{22}^2c_{42}^{-2}c_{44}^0 - \sqrt{35}c_{22}^1c_{42}^2c_{44}^{-3} + 2\sqrt{10}c_{22}^1c_{42}^1c_{44}^{-2} - \sqrt{30}c_{22}^1c_{42}^0c_{44}^{-1} + 4c_{22}^1c_{42}^{-1}c_{44}^0$$
$$- \sqrt{5}c_{22}^1c_{42}^{-2}c_{44}^1 + \sqrt{15}c_{22}^0c_{42}^2c_{44}^{-2} - \sqrt{30}c_{22}^0c_{42}^1c_{44}^{-1} + 6c_{22}^0c_{42}^0c_{44}^0 - \sqrt{30}c_{22}^0c_{42}^{-1}c_{44}^1$$
$$+ \sqrt{15}c_{22}^0c_{42}^{-2}c_{44}^2 - \sqrt{5}c_{22}^{-1}c_{42}^2c_{44}^{-1} + 4c_{22}^{-1}c_{42}^1c_{44}^0 - \sqrt{30}c_{22}^{-1}c_{42}^0c_{44}^1 + 2\sqrt{10}c_{22}^{-1}c_{42}^{-1}c_{44}^2$$
$$- \sqrt{35}c_{22}^{-1}c_{42}^{-2}c_{44}^3 + c_{22}^{-2}c_{42}^2c_{44}^0 - \sqrt{5}c_{22}^{-2}c_{42}^1c_{44}^1 + \sqrt{15}c_{22}^{-2}c_{42}^0c_{44}^2 - \sqrt{35}c_{22}^{-2}c_{42}^{-1}c_{44}^3$$
$$+ \sqrt{70}c_{22}^{-2}c_{42}^{-2}c_{44}^4)/(c_{00}^0)^{19/3}$$

$$\Phi_{19} = c_4(2,2)_2c_2 = \sqrt{\frac{1}{35}}(-\sqrt{3}c_{22}^2(c_{42}^{-1})^2 + 2\sqrt{2}c_{22}^2c_{42}^{-2}c_{42}^0 + \sqrt{2}c_{22}^1c_{42}^{-1}c_{42}^0 - 2\sqrt{3}c_{22}^1c_{42}^{-2}c_{42}^1$$
$$- \sqrt{2}c_{22}^0(c_{42}^0)^2 + \sqrt{2}c_{22}^0c_{42}^{-1}c_{42}^1 + 2\sqrt{2}c_{22}^0c_{42}^{-2}c_{42}^2 + \sqrt{2}c_{22}^{-1}c_{42}^0c_{42}^1 - 2\sqrt{3}c_{22}^{-1}c_{42}^{-1}c_{42}^2$$
$$- \sqrt{3}c_{22}^{-2}(c_{42}^1)^2 + 2\sqrt{2}c_{22}^{-2}c_{42}^0c_{42}^2)/(c_{00}^0)^{19/3}$$

$$\Phi_{20} = c_4(4,4)_2c_4 = \frac{1}{3}\sqrt{\frac{1}{385}}(-5\sqrt{6}c_{42}^2(c_{44}^{-1})^2 + 6\sqrt{15}c_{42}^2c_{44}^{-2}c_{44}^0 - 3\sqrt{42}c_{42}^2c_{44}^{-3}c_{44}^1$$
$$+ 2\sqrt{42}c_{42}^2c_{44}^{-4}c_{44}^2 + \sqrt{30}c_{42}^1c_{44}^{-1}c_{44}^0 - 9\sqrt{3}c_{42}^1c_{44}^{-2}c_{44}^1 + 5\sqrt{21}c_{42}^1c_{44}^{-3}c_{44}^2$$
$$- 14\sqrt{3}c_{42}^1c_{44}^{-4}c_{44}^3 - 10c_{42}^0(c_{44}^0)^2 + 17c_{42}^0c_{44}^{-1}c_{44}^1 - 8c_{42}^0c_{44}^{-2}c_{44}^2 - 7c_{42}^0c_{44}^{-3}c_{44}^3$$
$$+ 28c_{42}^0c_{44}^{-4}c_{44}^4 + \sqrt{30}c_{42}^{-1}c_{44}^0c_{44}^1 - 9\sqrt{3}c_{42}^{-1}c_{44}^{-1}c_{44}^2 + 5\sqrt{21}c_{42}^{-1}c_{44}^{-2}c_{44}^3 - 14\sqrt{3}c_{42}^{-1}c_{44}^{-3}c_{44}^4$$
$$- 5\sqrt{6}c_{42}^{-2}(c_{44}^1)^2 + 6\sqrt{15}c_{42}^{-2}c_{44}^0c_{44}^2 - 3\sqrt{42}c_{42}^{-2}c_{44}^{-1}c_{44}^3 + 2\sqrt{42}c_{42}^{-2}c_{44}^{-2}c_{44}^4)/(c_{00}^0)^7$$

$$\Phi_{21} = c_4(4,2)_2c_4 = \frac{1}{3}\sqrt{\frac{1}{35}}(\sqrt{35}(c_{42}^2)^2c_{44}^{-4} - \sqrt{70}c_{42}^1c_{42}^2c_{44}^{-3} + 2\sqrt{5}(c_{42}^1)^2c_{44}^{-2} + \sqrt{30}c_{42}^0c_{42}^2c_{44}^{-2}$$
$$- 2\sqrt{15}c_{42}^0c_{42}^1c_{44}^{-1} + 3\sqrt{2}(c_{42}^0)^2c_{44}^0 - \sqrt{10}c_{42}^{-1}c_{42}^2c_{44}^{-1} + 4\sqrt{2}c_{42}^{-1}c_{42}^1c_{44}^0 - 2\sqrt{15}c_{42}^{-1}c_{42}^0c_{44}^1$$
$$+ 2\sqrt{5}(c_{42}^{-1})^2c_{44}^2 + \sqrt{2}c_{42}^{-2}c_{42}^2c_{44}^0 - \sqrt{10}c_{42}^{-2}c_{42}^1c_{44}^1 + \sqrt{30}c_{42}^{-2}c_{42}^0c_{44}^2 - \sqrt{70}c_{42}^{-2}c_{42}^{-1}c_{44}^3$$
$$+ \sqrt{35}(c_{42}^{-2})^2c_{44}^4)/(c_{00}^0)^7$$

$$\Phi_{22} = c_4(2,2)_2c_4 = \sqrt{\frac{1}{35}}(-\sqrt{2}(c_{42}^0)^3 + 3\sqrt{2}c_{42}^{-1}c_{42}^0c_{42}^1 - 3\sqrt{3}(c_{42}^{-1})^2c_{42}^2 - 3\sqrt{3}c_{42}^{-2}(c_{42}^1)^2$$
$$+ 6\sqrt{2}c_{42}^{-2}c_{42}^0c_{42}^2)/(c_{00}^0)^7$$

$$\Phi_{23} = c_4(4,4)_4c_4 = \sqrt{\frac{1}{1001}}(3\sqrt{2}(c_{44}^0)^3 - 9\sqrt{2}c_{44}^{-1}c_{44}^0c_{44}^1 + 6\sqrt{5}(c_{44}^{-1})^2c_{44}^2 + 6\sqrt{5}c_{44}^{-2}(c_{44}^1)^2$$
$$- 11\sqrt{2}c_{44}^{-2}c_{44}^0c_{44}^2 - 2\sqrt{35}c_{44}^{-2}c_{44}^{-1}c_{44}^3 + 3\sqrt{35}(c_{44}^{-2})^2c_{44}^4 - 2\sqrt{35}c_{44}^{-3}c_{44}^1c_{44}^2$$
$$+ 21\sqrt{2}c_{44}^{-3}c_{44}^0c_{44}^3 - 14\sqrt{5}c_{44}^{-3}c_{44}^{-1}c_{44}^4 + 3\sqrt{35}c_{44}^{-4}(c_{44}^2)^2 - 14\sqrt{5}c_{44}^{-4}c_{44}^1c_{44}^3$$
$$+ 14\sqrt{2}c_{44}^{-4}c_{44}^0c_{44}^4)/(c_{00}^0)^7$$

$$\Phi_{24} \;=\; c_4(4,4)_2 c_2(2,2)_2 = \frac{1}{21}\sqrt{\frac{2}{55}}(15(c_{22}^1)^2(c_{44}^{-1})^2 - 9\sqrt{10}(c_{22}^1)^2 c_{44}^{-2} c_{44}^0 + 9\sqrt{7}(c_{22}^1)^2 c_{44}^{-3} c_{44}^1$$
$$-6\sqrt{7}(c_{22}^1)^2 c_{44}^{-4} c_{44}^2 - 10\sqrt{6} c_{22}^0 c_{22}^2 (c_{44}^{-1})^2 + 12\sqrt{15} c_{22}^0 c_{22}^2 c_{44}^{-2} c_{44}^0 - 6\sqrt{42} c_{22}^0 c_{22}^2 c_{44}^{-3} c_{44}^1$$
$$+4\sqrt{42} c_{22}^0 c_{22}^2 c_{44}^{-4} c_{44}^2 - \sqrt{30} c_{22}^0 c_{22}^1 c_{44}^{-1} c_{44}^0 + 9\sqrt{3} c_{22}^0 c_{22}^1 c_{44}^{-2} c_{44}^1 - 5\sqrt{21} c_{22}^0 c_{22}^1 c_{44}^{-3} c_{44}^2$$
$$+14\sqrt{3} c_{22}^0 c_{22}^1 c_{44}^{-4} c_{44}^3 + 10(c_{22}^0)^2(c_{44}^0)^2 - 17(c_{22}^0)^2 c_{44}^{-1} c_{44}^1 + 8(c_{22}^0)^2 c_{44}^{-2} c_{44}^2$$
$$+7(c_{22}^0)^2 c_{44}^{-3} c_{44}^3 - 28(c_{22}^0)^2 c_{44}^{-4} c_{44}^4 + 6\sqrt{5} c_{22}^{-1} c_{22}^2 c_{44}^{-1} c_{44}^0 - 27\sqrt{2} c_{22}^{-1} c_{22}^2 c_{44}^{-2} c_{44}^1$$
$$+15\sqrt{14} c_{22}^{-1} c_{22}^2 c_{44}^{-3} c_{44}^2 - 42\sqrt{2} c_{22}^{-1} c_{22}^2 c_{44}^{-4} c_{44}^3 - 10 c_{22}^{-1} c_{22}^1 (c_{44}^0)^2 + 17 c_{22}^{-1} c_{22}^1 c_{44}^{-1} c_{44}^1$$
$$-8 c_{22}^{-1} c_{22}^1 c_{44}^{-2} c_{44}^2 - 7 c_{22}^{-1} c_{22}^1 c_{44}^{-3} c_{44}^3 + 28 c_{22}^{-1} c_{22}^1 c_{44}^{-4} c_{44}^4 - \sqrt{30} c_{22}^{-1} c_{22}^0 c_{44}^0 c_{44}^1$$
$$+9\sqrt{3} c_{22}^{-1} c_{22}^0 c_{44}^{-1} c_{44}^2 - 5\sqrt{21} c_{22}^{-1} c_{22}^0 c_{44}^{-2} c_{44}^3 + 14\sqrt{3} c_{22}^{-1} c_{22}^0 c_{44}^{-3} c_{44}^4 + 15(c_{22}^{-1})^2(c_{44}^1)^2$$
$$-9\sqrt{10}(c_{22}^{-1})^2 c_{44}^0 c_{44}^2 + 9\sqrt{7}(c_{22}^{-1})^2 c_{44}^{-1} c_{44}^3 - 6\sqrt{7}(c_{22}^{-1})^2 c_{44}^{-2} c_{44}^4 - 20 c_{22}^{-2} c_{22}^2 (c_{44}^0)^2$$
$$+34 c_{22}^{-2} c_{22}^2 c_{44}^{-1} c_{44}^1 - 16 c_{22}^{-2} c_{22}^2 c_{44}^{-2} c_{44}^2 - 14 c_{22}^{-2} c_{22}^2 c_{44}^{-3} c_{44}^3 + 56 c_{22}^{-2} c_{22}^2 c_{44}^{-4} c_{44}^4$$
$$+6\sqrt{5} c_{22}^{-2} c_{22}^1 c_{44}^0 c_{44}^1 - 27\sqrt{2} c_{22}^{-2} c_{22}^1 c_{44}^{-1} c_{44}^2 + 15\sqrt{14} c_{22}^{-2} c_{22}^1 c_{44}^{-2} c_{44}^3$$
$$-42\sqrt{2} c_{22}^{-2} c_{22}^1 c_{44}^{-3} c_{44}^4 - 10\sqrt{6} c_{22}^{-2} c_{22}^0 (c_{44}^1)^2 + 12\sqrt{15} c_{22}^{-2} c_{22}^0 c_{44}^0 c_{44}^2$$
$$-6\sqrt{42} c_{22}^{-2} c_{22}^0 c_{44}^{-1} c_{44}^3 + 4\sqrt{42} c_{22}^{-2} c_{22}^0 c_{44}^{-2} c_{44}^4)/(c_{00}^0)^8$$

$$\Phi_{25} \;=\; c_4(4,2)_2 c_2(2,2)_2 = \frac{1}{21}\sqrt{\frac{1}{10}}(-\sqrt{210}(c_{22}^1)^2 c_{42}^2 c_{44}^{-4} + \sqrt{105}(c_{22}^1)^2 c_{42}^1 c_{44}^{-3}$$
$$-3\sqrt{5}(c_{22}^1)^2 c_{42}^0 c_{44}^{-2} + \sqrt{15}(c_{22}^1)^2 c_{42}^{-1} c_{44}^{-1} - \sqrt{3}(c_{22}^1)^2 c_{42}^{-2} c_{44}^0 + 4\sqrt{35} c_{22}^0 c_{22}^2 c_{42}^2 c_{44}^{-4}$$
$$-2\sqrt{70} c_{22}^0 c_{22}^2 c_{42}^1 c_{44}^{-3} + 2\sqrt{30} c_{22}^0 c_{22}^2 c_{42}^0 c_{44}^{-2} - 2\sqrt{10} c_{22}^0 c_{22}^2 c_{42}^{-1} c_{44}^{-1} + 2\sqrt{2} c_{22}^0 c_{22}^2 c_{42}^{-2} c_{44}^0$$
$$+\sqrt{70} c_{22}^0 c_{22}^1 c_{42}^2 c_{44}^{-3} - 4\sqrt{5} c_{22}^0 c_{22}^1 c_{42}^1 c_{44}^{-2} + 2\sqrt{15} c_{22}^0 c_{22}^1 c_{42}^0 c_{44}^{-1} - 4\sqrt{2} c_{22}^0 c_{22}^1 c_{42}^{-1} c_{44}^0$$
$$+\sqrt{10} c_{22}^0 c_{22}^1 c_{42}^{-2} c_{44}^1 - \sqrt{30}(c_{22}^0)^2 c_{42}^2 c_{44}^{-2} + 2\sqrt{15}(c_{22}^0)^2 c_{42}^1 c_{44}^{-1} - 6\sqrt{2}(c_{22}^0)^2 c_{42}^0 c_{44}^0$$
$$+2\sqrt{15}(c_{22}^0)^2 c_{42}^{-1} c_{44}^1 - \sqrt{30}(c_{22}^0)^2 c_{42}^{-2} c_{44}^2 - 2\sqrt{105} c_{22}^{-1} c_{22}^2 c_{42}^2 c_{44}^{-3} + 4\sqrt{30} c_{22}^{-1} c_{22}^2 c_{42}^1 c_{44}^{-2}$$
$$-6\sqrt{10} c_{22}^{-1} c_{22}^2 c_{42}^0 c_{44}^{-1} + 8\sqrt{3} c_{22}^{-1} c_{22}^2 c_{42}^{-1} c_{44}^0 - 2\sqrt{15} c_{22}^{-1} c_{22}^2 c_{42}^{-2} c_{44}^1 + \sqrt{30} c_{22}^{-1} c_{22}^1 c_{42}^2 c_{44}^{-2}$$
$$-2\sqrt{15} c_{22}^{-1} c_{22}^1 c_{42}^1 c_{44}^{-1} + 6\sqrt{2} c_{22}^{-1} c_{22}^1 c_{42}^0 c_{44}^0 - 2\sqrt{15} c_{22}^{-1} c_{22}^1 c_{42}^{-1} c_{44}^1 + \sqrt{30} c_{22}^{-1} c_{22}^1 c_{42}^{-2} c_{44}^2$$
$$+\sqrt{10} c_{22}^{-1} c_{22}^0 c_{42}^2 c_{44}^{-1} - 4\sqrt{2} c_{22}^{-1} c_{22}^0 c_{42}^1 c_{44}^0 + 2\sqrt{15} c_{22}^{-1} c_{22}^0 c_{42}^0 c_{44}^1 - 4\sqrt{5} c_{22}^{-1} c_{22}^0 c_{42}^{-1} c_{44}^2$$
$$+\sqrt{70} c_{22}^{-1} c_{22}^0 c_{42}^{-2} c_{44}^3 - \sqrt{3}(c_{22}^{-1})^2 c_{42}^2 c_{44}^0 + \sqrt{15}(c_{22}^{-1})^2 c_{42}^1 c_{44}^1 - 3\sqrt{5}(c_{22}^{-1})^2 c_{42}^0 c_{44}^2$$
$$+\sqrt{105}(c_{22}^{-1})^2 c_{42}^{-1} c_{44}^3 - \sqrt{210}(c_{22}^{-1})^2 c_{42}^{-2} c_{44}^4 + 2\sqrt{30} c_{22}^{-2} c_{22}^2 c_{42}^2 c_{44}^{-2} - 4\sqrt{15} c_{22}^{-2} c_{22}^2 c_{42}^1 c_{44}^{-1}$$
$$+12\sqrt{2} c_{22}^{-2} c_{22}^2 c_{42}^0 c_{44}^0 - 4\sqrt{15} c_{22}^{-2} c_{22}^2 c_{42}^{-1} c_{44}^1 + 2\sqrt{30} c_{22}^{-2} c_{22}^2 c_{42}^{-2} c_{44}^2$$
$$-2\sqrt{15} c_{22}^{-2} c_{22}^1 c_{42}^2 c_{44}^{-1} + 8\sqrt{3} c_{22}^{-2} c_{22}^1 c_{42}^1 c_{44}^0 - 6\sqrt{10} c_{22}^{-2} c_{22}^1 c_{42}^0 c_{44}^1 + 4\sqrt{30} c_{22}^{-2} c_{22}^1 c_{42}^{-1} c_{44}^2$$
$$-2\sqrt{105} c_{22}^{-2} c_{22}^1 c_{42}^{-2} c_{44}^3 + 2\sqrt{2} c_{22}^{-2} c_{22}^0 c_{42}^2 c_{44}^0 - 2\sqrt{10} c_{22}^{-2} c_{22}^0 c_{42}^1 c_{44}^1$$
$$+2\sqrt{30} c_{22}^{-2} c_{22}^0 c_{42}^0 c_{44}^2 - 2\sqrt{70} c_{22}^{-2} c_{22}^0 c_{42}^{-1} c_{44}^3 + 4\sqrt{35} c_{22}^{-2} c_{22}^0 c_{42}^{-2} c_{44}^4)/(c_{00}^0)^8$$

$$\Phi_{26} \;=\; c_4(2,2)_2 c_2(2,2)_2 = \frac{1}{7}\sqrt{\frac{1}{5}}(3(c_{22}^1)^2(c_{42}^{-1})^2 - 2\sqrt{6}(c_{22}^1)^2 c_{42}^{-2} c_{42}^0 - 2\sqrt{6} c_{22}^0 c_{22}^2 (c_{42}^{-1})^2$$
$$+8 c_{22}^0 c_{22}^2 c_{42}^{-2} c_{42}^0 - 2 c_{22}^0 c_{22}^1 c_{42}^{-1} c_{42}^0 + 2\sqrt{6} c_{22}^0 c_{22}^1 c_{42}^{-2} c_{42}^1 + 2(c_{22}^0)^2(c_{42}^0)^2$$
$$-2(c_{22}^0)^2 c_{42}^{-1} c_{42}^1 - 4(c_{22}^0)^2 c_{42}^{-2} c_{42}^2 + 2\sqrt{6} c_{22}^{-1} c_{22}^2 c_{42}^{-1} c_{42}^0 - 12 c_{22}^{-1} c_{22}^2 c_{42}^{-2} c_{42}^1$$
$$-2 c_{22}^{-1} c_{22}^1 (c_{42}^0)^2 + 2 c_{22}^{-1} c_{22}^1 c_{42}^{-1} c_{42}^1 + 4 c_{22}^{-1} c_{22}^1 c_{42}^{-2} c_{42}^2 - 2 c_{22}^{-1} c_{22}^0 c_{42}^0 c_{42}^1$$
$$+2\sqrt{6} c_{22}^{-1} c_{22}^0 c_{42}^{-1} c_{42}^2 + 3(c_{22}^{-1})^2(c_{42}^1)^2 - 2\sqrt{6}(c_{22}^{-1})^2 c_{42}^0 c_{42}^2 - 4 c_{22}^{-2} c_{22}^2 (c_{42}^0)^2$$
$$+4 c_{22}^{-2} c_{22}^2 c_{42}^{-1} c_{42}^1 + 8 c_{22}^{-2} c_{22}^2 c_{42}^{-2} c_{42}^2 + 2\sqrt{6} c_{22}^{-2} c_{22}^1 c_{42}^0 c_{42}^1 - 12 c_{22}^{-2} c_{22}^1 c_{42}^{-1} c_{42}^2$$
$$-2\sqrt{6} c_{22}^{-2} c_{22}^0 (c_{42}^1)^2 + 8 c_{22}^{-2} c_{22}^0 c_{42}^0 c_{42}^2)/(c_{00}^0)^8$$

$$\Phi_{27} = c_4(4,4)_2 c_3(3,3)_2 = \frac{1}{21}\sqrt{\frac{1}{165}}(-30(c_{33}^1)^2(c_{44}^{-1})^2 + 18\sqrt{10}(c_{33}^1)^2 c_{44}^{-2}c_{44}^0$$
$$-18\sqrt{7}(c_{33}^1)^2 c_{44}^{-3}c_{44}^1 + 12\sqrt{7}(c_{33}^1)^2 c_{44}^{-4}c_{44}^2 + 10\sqrt{30}c_{33}^0 c_{33}^2(c_{44}^{-1})^2 - 60\sqrt{3}c_{33}^0 c_{33}^2 c_{44}^{-2}c_{44}^0$$
$$+6\sqrt{210}c_{33}^0 c_{33}^2 c_{44}^{-3}c_{44}^1 - 4\sqrt{210}c_{33}^0 c_{33}^2 c_{44}^{-4}c_{44}^2 + 2\sqrt{15}c_{33}^0 c_{33}^1 c_{44}^{-1}c_{44}^0$$
$$-9\sqrt{6}c_{33}^0 c_{33}^1 c_{44}^{-2}c_{44}^1 + 5\sqrt{42}c_{33}^0 c_{33}^1 c_{44}^{-3}c_{44}^2 - 14\sqrt{6}c_{33}^0 c_{33}^1 c_{44}^{-4}c_{44}^3 - 20(c_{33}^0)^2(c_{44}^0)^2$$
$$+34(c_{33}^0)^2 c_{44}^{-1}c_{44}^1 - 16(c_{33}^0)^2 c_{44}^{-2}c_{44}^2 - 14(c_{33}^0)^2 c_{44}^{-3}c_{44}^3 + 56(c_{33}^0)^2 c_{44}^{-4}c_{44}^4$$
$$-10\sqrt{15}c_{33}^{-1}c_{33}^3(c_{44}^{-1})^2 + 30\sqrt{6}c_{33}^{-1}c_{33}^3 c_{44}^{-2}c_{44}^0 - 6\sqrt{105}c_{33}^{-1}c_{33}^3 c_{44}^{-3}c_{44}^1$$
$$+4\sqrt{105}c_{33}^{-1}c_{33}^3 c_{44}^{-4}c_{44}^2 - 15\sqrt{2}c_{33}^{-1}c_{33}^2 c_{44}^{-1}c_{44}^0 + 27\sqrt{5}c_{33}^{-1}c_{33}^2 c_{44}^{-2}c_{44}^1$$
$$-15\sqrt{35}c_{33}^{-1}c_{33}^2 c_{44}^{-3}c_{44}^2 + 42\sqrt{5}c_{33}^{-1}c_{33}^2 c_{44}^{-4}c_{44}^3 + 30c_{33}^{-1}c_{33}^1(c_{44}^0)^2 - 51c_{33}^{-1}c_{33}^1 c_{44}^{-1}c_{44}^1$$
$$+24c_{33}^{-1}c_{33}^1 c_{44}^{-2}c_{44}^2 + 21c_{33}^{-1}c_{33}^1 c_{44}^{-3}c_{44}^3 - 84c_{33}^{-1}c_{33}^1 c_{44}^{-4}c_{44}^4 + 2\sqrt{15}c_{33}^{-1}c_{33}^0 c_{44}^0 c_{44}^1$$
$$-9\sqrt{6}c_{33}^{-1}c_{33}^0 c_{44}^{-1}c_{44}^2 + 5\sqrt{42}c_{33}^{-1}c_{33}^0 c_{44}^{-2}c_{44}^3 - 14\sqrt{6}c_{33}^{-1}c_{33}^0 c_{44}^{-3}c_{44}^4 - 30(c_{33}^{-1})^2(c_{44}^1)^2$$
$$+18\sqrt{10}(c_{33}^{-1})^2 c_{44}^0 c_{44}^2 - 18\sqrt{7}(c_{33}^{-1})^2 c_{44}^{-1}c_{44}^3 + 12\sqrt{7}(c_{33}^{-1})^2 c_{44}^{-2}c_{44}^4 + 5\sqrt{30}c_{33}^{-2}c_{33}^3 c_{44}^{-1}c_{44}^0$$
$$-45\sqrt{3}c_{33}^{-2}c_{33}^3 c_{44}^{-2}c_{44}^1 + 25\sqrt{21}c_{33}^{-2}c_{33}^3 c_{44}^{-3}c_{44}^2 - 70\sqrt{3}c_{33}^{-2}c_{33}^3 c_{44}^{-4}c_{44}^3$$
$$-15\sqrt{2}c_{33}^{-2}c_{33}^1 c_{44}^0 c_{44}^1 + 27\sqrt{5}c_{33}^{-2}c_{33}^1 c_{44}^{-1}c_{44}^2 - 15\sqrt{35}c_{33}^{-2}c_{33}^1 c_{44}^{-2}c_{44}^3$$
$$+42\sqrt{5}c_{33}^{-2}c_{33}^1 c_{44}^{-3}c_{44}^4 + 10\sqrt{30}c_{33}^{-2}c_{33}^0(c_{44}^1)^2 - 60\sqrt{3}c_{33}^{-2}c_{33}^0 c_{44}^0 c_{44}^2$$
$$+6\sqrt{210}c_{33}^{-2}c_{33}^0 c_{44}^{-1}c_{44}^3 - 4\sqrt{210}c_{33}^{-2}c_{33}^0 c_{44}^{-2}c_{44}^4 - 50c_{33}^{-3}c_{33}^3(c_{44}^0)^2 + 85c_{33}^{-3}c_{33}^3 c_{44}^{-1}c_{44}^1$$
$$-40c_{33}^{-3}c_{33}^3 c_{44}^{-2}c_{44}^2 - 35c_{33}^{-3}c_{33}^3 c_{44}^{-3}c_{44}^3 + 140c_{33}^{-3}c_{33}^3 c_{44}^{-4}c_{44}^4 + 5\sqrt{30}c_{33}^{-3}c_{33}^2 c_{44}^0 c_{44}^1$$
$$-45\sqrt{3}c_{33}^{-3}c_{33}^2 c_{44}^{-1}c_{44}^2 + 25\sqrt{21}c_{33}^{-3}c_{33}^2 c_{44}^{-2}c_{44}^3 - 70\sqrt{3}c_{33}^{-3}c_{33}^2 c_{44}^{-3}c_{44}^4$$
$$-10\sqrt{15}c_{33}^{-3}c_{33}^1(c_{44}^1)^2 + 30\sqrt{6}c_{33}^{-3}c_{33}^1 c_{44}^0 c_{44}^2 - 6\sqrt{105}c_{33}^{-3}c_{33}^1 c_{44}^{-1}c_{44}^3$$
$$+4\sqrt{105}c_{33}^{-3}c_{33}^1 c_{44}^{-2}c_{44}^4)/(c_{00}^0)^{26/3}$$

$$\Phi_{28} = c_4(4,4)_2 c_3(3,1)_2 = \frac{1}{21}\sqrt{\frac{1}{55}}(-5\sqrt{2}c_{31}^1 c_{33}^1(c_{44}^{-1})^2 + 6\sqrt{5}c_{31}^1 c_{33}^1 c_{44}^{-2}c_{44}^0$$
$$-3\sqrt{14}c_{31}^1 c_{33}^1 c_{44}^{-3}c_{44}^1 + 2\sqrt{14}c_{31}^1 c_{33}^1 c_{44}^{-4}c_{44}^2 + \sqrt{30}c_{31}^1 c_{33}^0 c_{44}^{-1}c_{44}^0 - 9\sqrt{3}c_{31}^1 c_{33}^0 c_{44}^{-2}c_{44}^1$$
$$+5\sqrt{21}c_{31}^1 c_{33}^0 c_{44}^{-3}c_{44}^2 - 14\sqrt{3}c_{31}^1 c_{33}^0 c_{44}^{-4}c_{44}^3 - 10\sqrt{2}c_{31}^1 c_{33}^{-1}(c_{44}^0)^2 + 17\sqrt{2}c_{31}^1 c_{33}^{-1}c_{44}^{-1}c_{44}^1$$
$$-8\sqrt{2}c_{31}^1 c_{33}^{-1}c_{44}^{-2}c_{44}^2 - 7\sqrt{2}c_{31}^1 c_{33}^{-1}c_{44}^{-3}c_{44}^3 + 28\sqrt{2}c_{31}^1 c_{33}^{-1}c_{44}^{-4}c_{44}^4 + 10c_{31}^1 c_{33}^{-2}c_{44}^0 c_{44}^1$$
$$-9\sqrt{10}c_{31}^1 c_{33}^{-2}c_{44}^{-1}c_{44}^2 + 5\sqrt{70}c_{31}^1 c_{33}^{-2}c_{44}^{-2}c_{44}^3 - 14\sqrt{10}c_{31}^1 c_{33}^{-2}c_{44}^{-3}c_{44}^4$$
$$-5\sqrt{30}c_{31}^1 c_{33}^{-3}(c_{44}^1)^2 + 30\sqrt{3}c_{31}^1 c_{33}^{-3}c_{44}^0 c_{44}^2 - 3\sqrt{210}c_{31}^1 c_{33}^{-3}c_{44}^{-1}c_{44}^3$$
$$+2\sqrt{210}c_{31}^1 c_{33}^{-3}c_{44}^{-2}c_{44}^4 + 5\sqrt{10}c_{31}^0 c_{33}^2(c_{44}^{-1})^2 - 30c_{31}^0 c_{33}^2 c_{44}^{-2}c_{44}^0 + 3\sqrt{70}c_{31}^0 c_{33}^2 c_{44}^{-3}c_{44}^1$$
$$-2\sqrt{70}c_{31}^0 c_{33}^2 c_{44}^{-4}c_{44}^2 - 4\sqrt{5}c_{31}^0 c_{33}^1 c_{44}^{-1}c_{44}^0 + 18\sqrt{2}c_{31}^0 c_{33}^1 c_{44}^{-2}c_{44}^1$$
$$-10\sqrt{14}c_{31}^0 c_{33}^1 c_{44}^{-3}c_{44}^2 + 28\sqrt{2}c_{31}^0 c_{33}^1 c_{44}^{-4}c_{44}^3 + 10\sqrt{3}c_{31}^0 c_{33}^0(c_{44}^0)^2$$
$$-17\sqrt{3}c_{31}^0 c_{33}^0 c_{44}^{-1}c_{44}^1 + 8\sqrt{3}c_{31}^0 c_{33}^0 c_{44}^{-2}c_{44}^2 + 7\sqrt{3}c_{31}^0 c_{33}^0 c_{44}^{-3}c_{44}^3 - 28\sqrt{3}c_{31}^0 c_{33}^0 c_{44}^{-4}c_{44}^4$$
$$-4\sqrt{5}c_{31}^0 c_{33}^{-1}c_{44}^0 c_{44}^1 + 18\sqrt{2}c_{31}^0 c_{33}^{-1}c_{44}^{-1}c_{44}^2 - 10\sqrt{14}c_{31}^0 c_{33}^{-1}c_{44}^{-2}c_{44}^3$$
$$+28\sqrt{2}c_{31}^0 c_{33}^{-1}c_{44}^{-3}c_{44}^4 + 5\sqrt{10}c_{31}^0 c_{33}^{-2}(c_{44}^1)^2 - 30c_{31}^0 c_{33}^{-2}c_{44}^0 c_{44}^2 + 3\sqrt{70}c_{31}^0 c_{33}^{-2}c_{44}^{-1}c_{44}^3$$
$$-2\sqrt{70}c_{31}^0 c_{33}^{-2}c_{44}^{-2}c_{44}^4 - 5\sqrt{30}c_{31}^{-1}c_{33}^3(c_{44}^{-1})^2 + 30\sqrt{3}c_{31}^{-1}c_{33}^3 c_{44}^{-2}c_{44}^0$$
$$-3\sqrt{210}c_{31}^{-1}c_{33}^3 c_{44}^{-3}c_{44}^1 + 2\sqrt{210}c_{31}^{-1}c_{33}^3 c_{44}^{-4}c_{44}^2 + 10c_{31}^{-1}c_{33}^2 c_{44}^{-1}c_{44}^0$$
$$-9\sqrt{10}c_{31}^{-1}c_{33}^2 c_{44}^{-2}c_{44}^1 + 5\sqrt{70}c_{31}^{-1}c_{33}^2 c_{44}^{-3}c_{44}^2 - 14\sqrt{10}c_{31}^{-1}c_{33}^2 c_{44}^{-4}c_{44}^3$$
$$-10\sqrt{2}c_{31}^{-1}c_{33}^1(c_{44}^0)^2 + 17\sqrt{2}c_{31}^{-1}c_{33}^1 c_{44}^{-1}c_{44}^1 - 8\sqrt{2}c_{31}^{-1}c_{33}^1 c_{44}^{-2}c_{44}^2 - 7\sqrt{2}c_{31}^{-1}c_{33}^1 c_{44}^{-3}c_{44}^3$$
$$+28\sqrt{2}c_{31}^{-1}c_{33}^1 c_{44}^{-4}c_{44}^4 + \sqrt{30}c_{31}^{-1}c_{33}^0 c_{44}^0 c_{44}^1 - 9\sqrt{3}c_{31}^{-1}c_{33}^0 c_{44}^{-1}c_{44}^2 + 5\sqrt{21}c_{31}^{-1}c_{33}^0 c_{44}^{-2}c_{44}^3$$
$$-14\sqrt{3}c_{31}^{-1}c_{33}^0 c_{44}^{-3}c_{44}^4 - 5\sqrt{2}c_{31}^{-1}c_{33}^{-1}(c_{44}^1)^2 + 6\sqrt{5}c_{31}^{-1}c_{33}^{-1}c_{44}^0 c_{44}^2 - 3\sqrt{14}c_{31}^{-1}c_{33}^{-1}c_{44}^{-1}c_{44}^3$$
$$+2\sqrt{14}c_{31}^{-1}c_{33}^{-1}c_{44}^{-2}c_{44}^4)/(c_{00}^0)^{26/3}$$

$$
\begin{aligned}
\Phi_{29} \;=\; c_4(4,4)_2 c_3(1,1)_2 =\; & \frac{1}{3}\sqrt{\frac{2}{1155}}\big(-15(c^1_{31})^2(c^{-1}_{44})^2 + 9\sqrt{10}(c^1_{31})^2 c^{-2}_{44}c^0_{44} - 9\sqrt{7}(c^1_{31})^2 c^{-3}_{44}c^1_{44} \\
& +6\sqrt{7}(c^1_{31})^2 c^{-4}_{44}c^2_{44} + 3\sqrt{10}c^0_{31}c^1_{31}c^{-1}_{44}c^0_{44} - 27c^0_{31}c^1_{31}c^{-2}_{44}c^1_{44} + 15\sqrt{7}c^0_{31}c^1_{31}c^{-3}_{44}c^2_{44} \\
& -42c^0_{31}c^1_{31}c^{-4}_{44}c^3_{44} - 10(c^0_{31})^2(c^0_{44})^2 + 17(c^0_{31})^2 c^{-1}_{44}c^1_{44} - 8(c^0_{31})^2 c^{-2}_{44}c^2_{44} \\
& -7(c^0_{31})^2 c^{-3}_{44}c^3_{44} + 28(c^0_{31})^2 c^{-4}_{44}c^4_{44} - 10c^{-1}_{31}c^1_{31}(c^0_{44})^2 + 17c^{-1}_{31}c^1_{31}c^{-1}_{44}c^1_{44} \\
& -8c^{-1}_{31}c^1_{31}c^{-2}_{44}c^2_{44} - 7c^{-1}_{31}c^1_{31}c^{-3}_{44}c^3_{44} + 28c^{-1}_{31}c^1_{31}c^{-4}_{44}c^4_{44} + 3\sqrt{10}c^{-1}_{31}c^0_{31}c^0_{44}c^1_{44} \\
& -27c^{-1}_{31}c^0_{31}c^{-1}_{44}c^2_{44} + 15\sqrt{7}c^{-1}_{31}c^0_{31}c^{-2}_{44}c^3_{44} - 42c^{-1}_{31}c^0_{31}c^{-3}_{44}c^4_{44} - 15(c^{-1}_{31})^2(c^1_{44})^2 \\
& +9\sqrt{10}(c^{-1}_{31})^2 c^0_{44}c^2_{44} - 9\sqrt{7}(c^{-1}_{31})^2 c^{-1}_{44}c^3_{44} + 6\sqrt{7}(c^{-1}_{31})^2 c^{-2}_{44}c^4_{44}\big)/(c^0_{00})^{26/3}
\end{aligned}
$$

$$
\begin{aligned}
\Phi_{30} \;=\; c_4(4,2)_2 c_3(3,1)_2 =\; & \frac{1}{21}\sqrt{\frac{1}{30}}\big(\sqrt{70}c^1_{31}c^1_{33}c^2_{42}c^{-4}_{44} - \sqrt{35}c^1_{31}c^1_{33}c^1_{42}c^{-3}_{44} \\
& +\sqrt{15}c^1_{31}c^1_{33}c^0_{42}c^{-2}_{44} - \sqrt{5}c^1_{31}c^1_{33}c^{-1}_{42}c^{-1}_{44} + c^1_{31}c^1_{33}c^{-2}_{42}c^0_{44} - \sqrt{105}c^1_{31}c^0_{33}c^2_{42}c^{-3}_{44} \\
& +2\sqrt{30}c^1_{31}c^0_{33}c^1_{42}c^{-2}_{44} - 3\sqrt{10}c^1_{31}c^0_{33}c^0_{42}c^{-1}_{44} + 4\sqrt{3}c^1_{31}c^0_{33}c^{-1}_{42}c^0_{44} - \sqrt{15}c^1_{31}c^0_{33}c^{-2}_{42}c^1_{44} \\
& +3\sqrt{10}c^1_{31}c^{-1}_{33}c^2_{42}c^{-2}_{44} - 6\sqrt{5}c^1_{31}c^{-1}_{33}c^1_{42}c^{-1}_{44} + 6\sqrt{6}c^1_{31}c^{-1}_{33}c^0_{42}c^0_{44} - 6\sqrt{5}c^1_{31}c^{-1}_{33}c^{-1}_{42}c^1_{44} \\
& +3\sqrt{10}c^1_{31}c^{-1}_{33}c^{-2}_{42}c^2_{44} - 5\sqrt{2}c^1_{31}c^{-2}_{33}c^2_{42}c^{-1}_{44} + 4\sqrt{10}c^1_{31}c^{-2}_{33}c^1_{42}c^0_{44} - 10\sqrt{3}c^1_{31}c^{-2}_{33}c^0_{42}c^1_{44} \\
& +20c^1_{31}c^{-2}_{33}c^{-1}_{42}c^2_{44} - 5\sqrt{14}c^1_{31}c^{-2}_{33}c^{-2}_{42}c^3_{44} + \sqrt{15}c^1_{31}c^{-3}_{33}c^2_{42}c^0_{44} - 5\sqrt{3}c^1_{31}c^{-3}_{33}c^1_{42}c^1_{44} \\
& +15c^1_{31}c^{-3}_{33}c^0_{42}c^2_{44} - 5\sqrt{21}c^1_{31}c^{-3}_{33}c^{-1}_{42}c^3_{44} + 5\sqrt{42}c^1_{31}c^{-3}_{33}c^{-2}_{42}c^4_{44} - 5\sqrt{14}c^0_{31}c^2_{33}c^2_{42}c^{-4}_{44} \\
& +5\sqrt{7}c^0_{31}c^2_{33}c^1_{42}c^{-3}_{44} - 5\sqrt{3}c^0_{31}c^2_{33}c^0_{42}c^{-2}_{44} + 5c^0_{31}c^2_{33}c^{-1}_{42}c^{-1}_{44} - \sqrt{5}c^0_{31}c^2_{33}c^{-2}_{42}c^0_{44} \\
& +2\sqrt{70}c^0_{31}c^1_{33}c^2_{42}c^{-3}_{44} - 8\sqrt{5}c^0_{31}c^1_{33}c^1_{42}c^{-2}_{44} + 4\sqrt{15}c^0_{31}c^1_{33}c^0_{42}c^{-1}_{44} - 8\sqrt{2}c^0_{31}c^1_{33}c^{-1}_{42}c^0_{44} \\
& +2\sqrt{10}c^0_{31}c^1_{33}c^{-2}_{42}c^1_{44} - 3\sqrt{15}c^0_{31}c^0_{33}c^2_{42}c^{-2}_{44} + 3\sqrt{30}c^0_{31}c^0_{33}c^1_{42}c^{-1}_{44} - 18c^0_{31}c^0_{33}c^0_{42}c^0_{44} \\
& +3\sqrt{30}c^0_{31}c^0_{33}c^{-1}_{42}c^1_{44} - 3\sqrt{15}c^0_{31}c^0_{33}c^{-2}_{42}c^2_{44} + 2\sqrt{10}c^0_{31}c^{-1}_{33}c^2_{42}c^{-1}_{44} - 8\sqrt{2}c^0_{31}c^{-1}_{33}c^1_{42}c^0_{44} \\
& +4\sqrt{15}c^0_{31}c^{-1}_{33}c^0_{42}c^1_{44} - 8\sqrt{5}c^0_{31}c^{-1}_{33}c^{-1}_{42}c^2_{44} + 2\sqrt{70}c^0_{31}c^{-1}_{33}c^{-2}_{42}c^3_{44} - \sqrt{5}c^0_{31}c^{-2}_{33}c^2_{42}c^0_{44} \\
& +5c^0_{31}c^{-2}_{33}c^1_{42}c^1_{44} - 5\sqrt{3}c^0_{31}c^{-2}_{33}c^0_{42}c^2_{44} + 5\sqrt{7}c^0_{31}c^{-2}_{33}c^{-1}_{42}c^3_{44} - 5\sqrt{14}c^0_{31}c^{-2}_{33}c^{-2}_{42}c^4_{44} \\
& +5\sqrt{42}c^{-1}_{31}c^3_{33}c^2_{42}c^{-4}_{44} - 5\sqrt{21}c^{-1}_{31}c^3_{33}c^1_{42}c^{-3}_{44} + 15c^{-1}_{31}c^3_{33}c^0_{42}c^{-2}_{44} - 5\sqrt{3}c^{-1}_{31}c^3_{33}c^{-1}_{42}c^{-1}_{44} \\
& +\sqrt{15}c^{-1}_{31}c^3_{33}c^{-2}_{42}c^0_{44} - 5\sqrt{14}c^{-1}_{31}c^2_{33}c^2_{42}c^{-3}_{44} + 20c^{-1}_{31}c^2_{33}c^1_{42}c^{-2}_{44} - 10\sqrt{3}c^{-1}_{31}c^2_{33}c^0_{42}c^{-1}_{44} \\
& +4\sqrt{10}c^{-1}_{31}c^2_{33}c^{-1}_{42}c^0_{44} - 5\sqrt{2}c^{-1}_{31}c^2_{33}c^{-2}_{42}c^1_{44} + 3\sqrt{10}c^{-1}_{31}c^1_{33}c^2_{42}c^{-2}_{44} - 6\sqrt{5}c^{-1}_{31}c^1_{33}c^1_{42}c^{-1}_{44} \\
& +6\sqrt{6}c^{-1}_{31}c^1_{33}c^0_{42}c^0_{44} - 6\sqrt{5}c^{-1}_{31}c^1_{33}c^{-1}_{42}c^1_{44} + 3\sqrt{10}c^{-1}_{31}c^1_{33}c^{-2}_{42}c^2_{44} - \sqrt{15}c^{-1}_{31}c^0_{33}c^2_{42}c^{-1}_{44} \\
& +4\sqrt{3}c^{-1}_{31}c^0_{33}c^1_{42}c^0_{44} - 3\sqrt{10}c^{-1}_{31}c^0_{33}c^0_{42}c^1_{44} + 2\sqrt{30}c^{-1}_{31}c^0_{33}c^{-1}_{42}c^2_{44} - \sqrt{105}c^{-1}_{31}c^0_{33}c^{-2}_{42}c^3_{44} \\
& +c^{-1}_{31}c^{-1}_{33}c^2_{42}c^0_{44} - \sqrt{5}c^{-1}_{31}c^{-1}_{33}c^1_{42}c^1_{44} + \sqrt{15}c^{-1}_{31}c^{-1}_{33}c^0_{42}c^2_{44} - \sqrt{35}c^{-1}_{31}c^{-1}_{33}c^{-1}_{42}c^3_{44} \\
& +\sqrt{70}c^{-1}_{31}c^{-1}_{33}c^{-2}_{42}c^4_{44}\big)/(c^0_{00})^{26/3}
\end{aligned}
$$

$$
\begin{aligned}
\Phi_{31} \;=\; c_4(4,2)_2 c_3(1,1)_2 =\; & \frac{1}{3}\sqrt{\frac{1}{70}}\big(\sqrt{70}(c^1_{31})^2 c^2_{42}c^{-4}_{44} - \sqrt{35}(c^1_{31})^2 c^1_{42}c^{-3}_{44} + \sqrt{15}(c^1_{31})^2 c^0_{42}c^{-2}_{44} \\
& -\sqrt{5}(c^1_{31})^2 c^{-1}_{42}c^{-1}_{44} + (c^1_{31})^2 c^{-2}_{42}c^0_{44} - \sqrt{70}c^0_{31}c^1_{31}c^2_{42}c^{-3}_{44} + 4\sqrt{5}c^0_{31}c^1_{31}c^1_{42}c^{-2}_{44} \\
& -2\sqrt{15}c^0_{31}c^1_{31}c^0_{42}c^{-1}_{44} + 4\sqrt{2}c^0_{31}c^1_{31}c^{-1}_{42}c^0_{44} - \sqrt{10}c^0_{31}c^1_{31}c^{-2}_{42}c^1_{44} + \sqrt{10}(c^0_{31})^2 c^2_{42}c^{-2}_{44} \\
& -2\sqrt{5}(c^0_{31})^2 c^1_{42}c^{-1}_{44} + 2\sqrt{6}(c^0_{31})^2 c^0_{42}c^0_{44} - 2\sqrt{5}(c^0_{31})^2 c^{-1}_{42}c^1_{44} + \sqrt{10}(c^0_{31})^2 c^{-2}_{42}c^2_{44} \\
& +\sqrt{10}c^{-1}_{31}c^1_{31}c^2_{42}c^{-2}_{44} - 2\sqrt{5}c^{-1}_{31}c^1_{31}c^1_{42}c^{-1}_{44} + 2\sqrt{6}c^{-1}_{31}c^1_{31}c^0_{42}c^0_{44} - 2\sqrt{5}c^{-1}_{31}c^1_{31}c^{-1}_{42}c^1_{44} \\
& +\sqrt{10}c^{-1}_{31}c^1_{31}c^{-2}_{42}c^2_{44} - \sqrt{10}c^{-1}_{31}c^0_{31}c^2_{42}c^{-1}_{44} + 4\sqrt{2}c^{-1}_{31}c^0_{31}c^1_{42}c^0_{44} - 2\sqrt{15}c^{-1}_{31}c^0_{31}c^0_{42}c^1_{44} \\
& +4\sqrt{5}c^{-1}_{31}c^0_{31}c^{-1}_{42}c^2_{44} - \sqrt{70}c^{-1}_{31}c^0_{31}c^{-2}_{42}c^3_{44} + (c^{-1}_{31})^2 c^2_{42}c^0_{44} - \sqrt{5}(c^{-1}_{31})^2 c^1_{42}c^1_{44} \\
& +\sqrt{15}(c^{-1}_{31})^2 c^0_{42}c^2_{44} - \sqrt{35}(c^{-1}_{31})^2 c^{-1}_{42}c^3_{44} + \sqrt{70}(c^{-1}_{31})^2 c^{-2}_{42}c^4_{44}\big)/(c^0_{00})^{26/3}
\end{aligned}
$$

$$\Phi_{32} = c_4(2,2)_2 c_3(1,1)_2 = \sqrt{\frac{1}{105}}(-3(c_{31}^1)^2(c_{42}^{-1})^2 + 2\sqrt{6}(c_{31}^1)^2 c_{42}^{-2}c_{42}^0 + 2\sqrt{3}c_{31}^0 c_{31}^1 c_{42}^{-1}c_{42}^0$$
$$-6\sqrt{2}c_{31}^0 c_{31}^1 c_{42}^{-2}c_{42}^1 - 2(c_{31}^0)^2(c_{42}^0)^2 + 2(c_{31}^0)^2 c_{42}^{-1}c_{42}^1 + 4(c_{31}^0)^2 c_{42}^{-2}c_{42}^2$$
$$-2c_{31}^{-1}c_{31}^1(c_{42}^0)^2 + 2c_{31}^{-1}c_{31}^1 c_{42}^{-1}c_{42}^1 + 4c_{31}^{-1}c_{31}^1 c_{42}^{-2}c_{42}^2 + 2\sqrt{3}c_{31}^{-1}c_{31}^0 c_{42}^0 c_{42}^1$$
$$-6\sqrt{2}c_{31}^{-1}c_{31}^0 c_{42}^{-1}c_{42}^2 - 3(c_{31}^{-1})^2(c_{42}^1)^2 + 2\sqrt{6}(c_{31}^{-1})^2 c_{42}^0 c_{42}^2)/(c_{00}^0)^{26/3}$$

$$\Phi_{33} = c_4^2(4,4)_2 = \frac{1}{693}\sqrt{\frac{1}{5}}(100(c_{44}^0)^4 - 400c_{44}^{-1}(c_{44}^0)^2 c_{44}^1 + 589(c_{44}^{-1})^2(c_{44}^1)^2$$
$$-126\sqrt{10}(c_{44}^{-1})^2 c_{44}^0 c_{44}^2 + 180\sqrt{7}(c_{44}^{-1})^3 c_{44}^3 - 126\sqrt{10}c_{44}^{-2}c_{44}^0(c_{44}^1)^2 + 1240c_{44}^{-2}(c_{44}^0)^2 c_{44}^2$$
$$-758c_{44}^{-2}c_{44}^{-1}c_{44}^1 c_{44}^2 - 138\sqrt{70}c_{44}^{-2}c_{44}^{-1}c_{44}^0 c_{44}^3 - 120\sqrt{7}c_{44}^{-2}(c_{44}^{-1})^2 c_{44}^4 + 64(c_{44}^{-2})^2(c_{44}^2)^2$$
$$+270\sqrt{7}(c_{44}^{-2})^2 c_{44}^1 c_{44}^3 + 72\sqrt{70}(c_{44}^{-2})^2 c_{44}^0 c_{44}^4 + 180\sqrt{7}c_{44}^{-3}(c_{44}^1)^3 - 138\sqrt{70}c_{44}^{-3}c_{44}^0 c_{44}^1 c_{44}^2$$
$$+140c_{44}^{-3}(c_{44}^0)^2 c_{44}^3 + 270\sqrt{7}c_{44}^{-3}c_{44}^{-1}(c_{44}^2)^2 + 518c_{44}^{-3}c_{44}^{-1}c_{44}^1 c_{44}^3 + 84\sqrt{10}c_{44}^{-3}c_{44}^{-1}c_{44}^0 c_{44}^4$$
$$-938c_{44}^{-3}c_{44}^{-2}c_{44}^2 c_{44}^3 - 1260c_{44}^{-3}c_{44}^{-2}c_{44}^1 c_{44}^4 + 49(c_{44}^{-3})^2(c_{44}^3)^2 + 420\sqrt{7}(c_{44}^{-3})^2 c_{44}^2 c_{44}^4$$
$$-120\sqrt{7}c_{44}^{-4}(c_{44}^1)^2 c_{44}^2 + 72\sqrt{70}c_{44}^{-4}c_{44}^0(c_{44}^2)^2 + 84\sqrt{10}c_{44}^{-4}c_{44}^0 c_{44}^1 c_{44}^3 - 560c_{44}^{-4}(c_{44}^0)^2 c_{44}^4$$
$$-1260c_{44}^{-4}c_{44}^{-1}c_{44}^2 c_{44}^3 + 952c_{44}^{-4}c_{44}^{-1}c_{44}^1 c_{44}^4 + 420\sqrt{7}c_{44}^{-4}c_{44}^{-2}(c_{44}^3)^2 - 112c_{44}^{-4}c_{44}^{-2}c_{44}^2 c_{44}^4$$
$$-1568c_{44}^{-4}c_{44}^{-3}c_{44}^3 c_{44}^4 + 784(c_{44}^{-4})^2(c_{44}^4)^2)/(c_{00}^0)^{28/3}$$

$$\Phi_{34} = c_4(4,4)_2 c_4(4,2)_2 = \frac{1}{21}\sqrt{\frac{2}{165}}(-2\sqrt{5}c_{42}^2 c_{44}^{-2}(c_{44}^0)^2 + 4\sqrt{5}c_{42}^2 c_{44}^{-2}c_{44}^{-1}c_{44}^1$$
$$-4\sqrt{5}c_{42}^2(c_{44}^{-2})^2 c_{44}^2 + \sqrt{14}c_{42}^2 c_{44}^{-3}c_{44}^0 c_{44}^1 - 2\sqrt{35}c_{42}^2 c_{44}^{-3}c_{44}^{-1}c_{44}^2 + 14\sqrt{5}c_{42}^2 c_{44}^{-3}c_{44}^{-2}c_{44}^3$$
$$-7\sqrt{35}c_{42}^2(c_{44}^{-3})^2 c_{44}^4 - 5\sqrt{35}c_{42}^2 c_{44}^{-4}(c_{44}^1)^2 + 16\sqrt{14}c_{42}^2 c_{44}^{-4}c_{44}^0 c_{44}^2 - 28\sqrt{5}c_{42}^2 c_{44}^{-4}c_{44}^{-1}c_{44}^3$$
$$+28\sqrt{5}c_{42}^2 c_{44}^{-4}c_{44}^{-2}c_{44}^4 + 3\sqrt{10}c_{42}^1 c_{44}^{-1}(c_{44}^0)^2 - 6\sqrt{10}c_{42}^1(c_{44}^{-1})^2 c_{44}^1 - 7c_{42}^1 c_{44}^{-2}c_{44}^0 c_{44}^1$$
$$+13\sqrt{10}c_{42}^1 c_{44}^{-2}c_{44}^{-1}c_{44}^2 - 5\sqrt{70}c_{42}^1(c_{44}^{-2})^2 c_{44}^3 + 4\sqrt{70}c_{42}^1 c_{44}^{-3}(c_{44}^1)^2 - 25\sqrt{7}c_{42}^1 c_{44}^{-3}c_{44}^0 c_{44}^2$$
$$+14\sqrt{10}c_{42}^1 c_{44}^{-3}c_{44}^{-1}c_{44}^3 + 7\sqrt{10}c_{42}^1 c_{44}^{-3}c_{44}^{-2}c_{44}^4 - \sqrt{70}c_{42}^1 c_{44}^{-4}c_{44}^1 c_{44}^2 + 28c_{42}^1 c_{44}^{-4}c_{44}^0 c_{44}^3$$
$$-14\sqrt{10}c_{42}^1 c_{44}^{-4}c_{44}^{-1}c_{44}^4 - 10\sqrt{3}c_{42}^0(c_{44}^0)^3 + 27\sqrt{3}c_{42}^0 c_{44}^{-1}c_{44}^0 c_{44}^1 - 7\sqrt{30}c_{42}^0(c_{44}^{-1})^2 c_{44}^2$$
$$-7\sqrt{30}c_{42}^0 c_{44}^{-2}(c_{44}^1)^2 + 22\sqrt{3}c_{42}^0 c_{44}^{-2}c_{44}^0 c_{44}^2 + \sqrt{210}c_{42}^0 c_{44}^{-2}c_{44}^{-1}c_{44}^3 + \sqrt{210}c_{42}^0(c_{44}^{-2})^2 c_{44}^4$$
$$+\sqrt{210}c_{42}^0 c_{44}^{-3}c_{44}^1 c_{44}^2 - 7\sqrt{3}c_{42}^0 c_{44}^{-3}c_{44}^0 c_{44}^3 - 7\sqrt{30}c_{42}^0 c_{44}^{-3}c_{44}^{-1}c_{44}^4 + \sqrt{210}c_{42}^0 c_{44}^{-4}(c_{44}^2)^2$$
$$-7\sqrt{30}c_{42}^0 c_{44}^{-4}c_{44}^1 c_{44}^3 + 28\sqrt{3}c_{42}^0 c_{44}^{-4}c_{44}^0 c_{44}^4 + 3\sqrt{10}c_{42}^{-1}(c_{44}^0)^2 c_{44}^1 - 6\sqrt{10}c_{42}^{-1}c_{44}^{-1}(c_{44}^1)^2$$
$$-7c_{42}^{-1}c_{44}^{-1}c_{44}^0 c_{44}^2 + 4\sqrt{70}c_{42}^{-1}(c_{44}^{-1})^2 c_{44}^3 + 13\sqrt{10}c_{42}^{-1}c_{44}^{-2}c_{44}^1 c_{44}^2 - 25\sqrt{7}c_{42}^{-1}c_{44}^{-2}c_{44}^0 c_{44}^3$$
$$-\sqrt{70}c_{42}^{-1}c_{44}^{-2}c_{44}^{-1}c_{44}^4 - 5\sqrt{70}c_{42}^{-1}c_{44}^{-3}(c_{44}^2)^2 + 14\sqrt{10}c_{42}^{-1}c_{44}^{-3}c_{44}^1 c_{44}^3 + 28c_{42}^{-1}c_{44}^{-3}c_{44}^0 c_{44}^4$$
$$+7\sqrt{10}c_{42}^{-1}c_{44}^{-4}c_{44}^2 c_{44}^3 - 14\sqrt{10}c_{42}^{-1}c_{44}^{-4}c_{44}^1 c_{44}^4 - 2\sqrt{5}c_{42}^{-2}(c_{44}^0)^2 c_{44}^2 + 4\sqrt{5}c_{42}^{-2}c_{44}^{-1}c_{44}^1 c_{44}^2$$
$$+\sqrt{14}c_{42}^{-2}c_{44}^{-1}c_{44}^0 c_{44}^3 - 5\sqrt{35}c_{42}^{-2}(c_{44}^{-1})^2 c_{44}^4 - 4\sqrt{5}c_{42}^{-2}c_{44}^{-2}(c_{44}^2)^2 - 2\sqrt{35}c_{42}^{-2}c_{44}^{-2}c_{44}^1 c_{44}^3$$
$$+16\sqrt{14}c_{42}^{-2}c_{44}^{-2}c_{44}^0 c_{44}^4 + 14\sqrt{5}c_{42}^{-2}c_{44}^{-3}c_{44}^2 c_{44}^3 - 28\sqrt{5}c_{42}^{-2}c_{44}^{-3}c_{44}^1 c_{44}^4$$
$$-7\sqrt{35}c_{42}^{-2}c_{44}^{-4}(c_{44}^3)^2 + 28\sqrt{5}c_{42}^{-2}c_{44}^{-4}c_{44}^2 c_{44}^4)/(c_{00}^0)^{28/3}$$

$$\Phi_{35} = c_4(4,4)_2 c_4(2,2)_2 = \frac{1}{21}\sqrt{\frac{2}{55}}(15(c_{42}^1)^2(c_{44}^{-1})^2 - 9\sqrt{10}(c_{42}^1)^2 c_{44}^{-2} c_{44}^0 + 9\sqrt{7}(c_{42}^1)^2 c_{44}^{-3} c_{44}^1$$
$$-6\sqrt{7}(c_{42}^1)^2 c_{44}^{-4} c_{44}^2 - 10\sqrt{6} c_{42}^0 c_{42}^2 (c_{44}^{-1})^2 + 12\sqrt{15} c_{42}^0 c_{42}^2 c_{44}^{-2} c_{44}^0 - 6\sqrt{42} c_{42}^0 c_{42}^2 c_{44}^{-3} c_{44}^1$$
$$+4\sqrt{42} c_{42}^0 c_{42}^2 c_{44}^{-4} c_{44}^2 - \sqrt{30} c_{42}^0 c_{42}^1 c_{44}^{-1} c_{44}^0 + 9\sqrt{3} c_{42}^0 c_{42}^1 c_{44}^{-2} c_{44}^1 - 5\sqrt{21} c_{42}^0 c_{42}^1 c_{44}^{-3} c_{44}^2$$
$$+14\sqrt{3} c_{42}^0 c_{42}^1 c_{44}^{-4} c_{44}^3 + 10(c_{42}^0)^2(c_{44}^0)^2 - 17(c_{42}^0)^2 c_{44}^{-1} c_{44}^1 + 8(c_{42}^0)^2 c_{44}^{-2} c_{44}^2$$
$$+7(c_{42}^0)^2 c_{44}^{-3} c_{44}^3 - 28(c_{42}^0)^2 c_{44}^{-4} c_{44}^4 + 6\sqrt{5} c_{42}^0 c_{42}^2 c_{44}^{-1} c_{44}^0 - 27\sqrt{2} c_{42}^{-1} c_{42}^2 c_{44}^{-2} c_{44}^1$$
$$+15\sqrt{14} c_{42}^{-1} c_{42}^2 c_{44}^{-3} c_{44}^2 - 42\sqrt{2} c_{42}^{-1} c_{42}^2 c_{44}^{-4} c_{44}^3 - 10 c_{42}^{-1} c_{42}^1 (c_{44}^0)^2 + 17 c_{42}^{-1} c_{42}^1 c_{44}^{-1} c_{44}^1$$
$$-8 c_{42}^{-1} c_{42}^1 c_{44}^{-2} c_{44}^2 - 7 c_{42}^{-1} c_{42}^1 c_{44}^{-3} c_{44}^3 + 28 c_{42}^{-1} c_{42}^1 c_{44}^{-4} c_{44}^4 - \sqrt{30} c_{42}^{-1} c_{42}^0 c_{44}^0 c_{44}^1$$
$$+9\sqrt{3} c_{42}^{-1} c_{42}^0 c_{44}^{-1} c_{44}^2 - 5\sqrt{21} c_{42}^{-1} c_{42}^0 c_{44}^{-2} c_{44}^3 + 14\sqrt{3} c_{42}^{-1} c_{42}^0 c_{44}^{-3} c_{44}^4 + 15(c_{42}^{-1})^2(c_{44}^1)^2$$
$$-9\sqrt{10}(c_{42}^{-1})^2 c_{44}^0 c_{44}^2 + 9\sqrt{7}(c_{42}^{-1})^2 c_{44}^{-1} c_{44}^3 - 6\sqrt{7}(c_{42}^{-1})^2 c_{44}^{-2} c_{44}^4 - 20 c_{42}^{-2} c_{42}^2 (c_{44}^0)^2$$
$$+34 c_{42}^{-2} c_{42}^2 c_{44}^{-1} c_{44}^1 - 16 c_{42}^{-2} c_{42}^2 c_{44}^{-2} c_{44}^2 - 14 c_{42}^{-2} c_{42}^2 c_{44}^{-3} c_{44}^3 + 56 c_{42}^{-2} c_{42}^2 c_{44}^{-4} c_{44}^4$$
$$+6\sqrt{5} c_{42}^{-2} c_{42}^1 c_{44}^0 c_{44}^1 - 27\sqrt{2} c_{42}^{-2} c_{42}^1 c_{44}^{-1} c_{44}^2 + 15\sqrt{14} c_{42}^{-2} c_{42}^1 c_{44}^{-2} c_{44}^3$$
$$-42\sqrt{2} c_{42}^{-2} c_{42}^1 c_{44}^{-3} c_{44}^4 - 10\sqrt{6} c_{42}^{-2} c_{42}^0 (c_{44}^1)^2 + 12\sqrt{15} c_{42}^{-2} c_{42}^0 c_{44}^0 c_{44}^2$$
$$-6\sqrt{42} c_{42}^{-2} c_{42}^0 c_{44}^{-1} c_{44}^3 + 4\sqrt{42} c_{42}^{-2} c_{42}^0 c_{44}^{-2} c_{44}^4)/(c_{00}^0)^{28/3}$$

$$\Phi_{36} = c_4^2(4,2)_2 = \frac{1}{126}\sqrt{\frac{1}{5}}(15(c_{42}^2)^2(c_{44}^{-2})^2 - 10\sqrt{7}(c_{42}^2)^2 c_{44}^{-3} c_{44}^{-1} + 2\sqrt{70}(c_{42}^2)^2 c_{44}^{-4} c_{44}^0$$
$$-10\sqrt{2} c_{42}^1 c_{42}^2 c_{44}^{-2} c_{44}^{-1} + 6\sqrt{35} c_{42}^1 c_{42}^2 c_{44}^{-3} c_{44}^0 - 10\sqrt{14} c_{42}^1 c_{42}^2 c_{44}^{-4} c_{44}^1 + 30(c_{42}^1)^2(c_{44}^{-1})^2$$
$$-16\sqrt{10}(c_{42}^1)^2 c_{44}^{-2} c_{44}^0 + 10\sqrt{7}(c_{42}^1)^2 c_{44}^{-3} c_{44}^1 - 10\sqrt{6} c_{42}^0 c_{42}^2 (c_{44}^{-1})^2 + 14\sqrt{15} c_{42}^0 c_{42}^2 c_{44}^{-2} c_{44}^0$$
$$-10\sqrt{42} c_{42}^0 c_{42}^2 c_{44}^{-3} c_{44}^1 + 10\sqrt{42} c_{42}^0 c_{42}^2 c_{44}^{-4} c_{44}^2 - 4\sqrt{30} c_{42}^0 c_{42}^1 c_{44}^{-1} c_{44}^0$$
$$+30\sqrt{3} c_{42}^0 c_{42}^1 c_{44}^{-2} c_{44}^1 - 10\sqrt{21} c_{42}^0 c_{42}^1 c_{44}^{-3} c_{44}^2 + 36(c_{42}^0)^2(c_{44}^0)^2 - 60(c_{42}^0)^2 c_{44}^{-1} c_{44}^1$$
$$+30(c_{42}^0)^2 c_{44}^{-2} c_{44}^2 + 6\sqrt{5} c_{42}^{-1} c_{42}^2 c_{44}^{-1} c_{44}^0 - 30\sqrt{2} c_{42}^{-1} c_{42}^2 c_{44}^{-2} c_{44}^1 + 20\sqrt{14} c_{42}^{-1} c_{42}^2 c_{44}^{-3} c_{44}^2$$
$$-70\sqrt{2} c_{42}^{-1} c_{42}^2 c_{44}^{-4} c_{44}^3 - 32 c_{42}^{-1} c_{42}^1 (c_{44}^0)^2 + 70 c_{42}^{-1} c_{42}^1 c_{44}^{-1} c_{44}^1 - 80 c_{42}^{-1} c_{42}^1 c_{44}^{-2} c_{44}^2$$
$$+70 c_{42}^{-1} c_{42}^1 c_{44}^{-3} c_{44}^3 - 4\sqrt{30} c_{42}^{-1} c_{42}^0 c_{44}^0 c_{44}^1 + 30\sqrt{3} c_{42}^{-1} c_{42}^0 c_{44}^{-1} c_{44}^2 - 10\sqrt{21} c_{42}^{-1} c_{42}^0 c_{44}^{-2} c_{44}^3$$
$$+30(c_{42}^{-1})^2(c_{44}^1)^2 - 16\sqrt{10}(c_{42}^{-1})^2 c_{44}^0 c_{44}^2 + 10\sqrt{7}(c_{42}^{-1})^2 c_{44}^{-1} c_{44}^3 + 2 c_{42}^{-2} c_{42}^2 (c_{44}^0)^2$$
$$-10 c_{42}^{-2} c_{42}^2 c_{44}^{-1} c_{44}^1 + 30 c_{42}^{-2} c_{42}^2 c_{44}^{-2} c_{44}^2 - 70 c_{42}^{-2} c_{42}^2 c_{44}^{-3} c_{44}^3 + 140 c_{42}^{-2} c_{42}^2 c_{44}^{-4} c_{44}^4$$
$$+6\sqrt{5} c_{42}^{-2} c_{42}^1 c_{44}^0 c_{44}^1 - 30\sqrt{2} c_{42}^{-2} c_{42}^1 c_{44}^{-1} c_{44}^2 + 20\sqrt{14} c_{42}^{-2} c_{42}^1 c_{44}^{-2} c_{44}^3$$
$$-70\sqrt{2} c_{42}^{-2} c_{42}^1 c_{44}^{-3} c_{44}^4 - 10\sqrt{6} c_{42}^{-2} c_{42}^0 (c_{44}^1)^2 + 14\sqrt{15} c_{42}^{-2} c_{42}^0 c_{44}^0 c_{44}^2$$
$$-10\sqrt{42} c_{42}^{-2} c_{42}^0 c_{44}^{-1} c_{44}^3 + 10\sqrt{42} c_{42}^{-2} c_{42}^0 c_{44}^{-2} c_{44}^4 - 10\sqrt{2} c_{42}^{-2} c_{42}^2 c_{44}^1 c_{44}^2$$
$$+6\sqrt{35} c_{42}^{-2} c_{42}^{-1} c_{44}^0 c_{44}^3 - 10\sqrt{14} c_{42}^{-2} c_{42}^{-1} c_{44}^{-1} c_{44}^4 + 15(c_{42}^{-2})^2(c_{44}^2)^2 - 10\sqrt{7}(c_{42}^{-2})^2 c_{44}^1 c_{44}^3$$
$$+2\sqrt{70}(c_{42}^{-2})^2 c_{44}^0 c_{44}^4)/(c_{00}^0)^{28/3}$$

$$\Phi_{37} = c_4(4,2)_2 c_4(2,2)_2 = \frac{1}{21}\sqrt{\frac{1}{10}}(-\sqrt{210}(c_{42}^1)^2 c_{42}^2 c_{44}^{-4} + \sqrt{105}(c_{42}^1)^3 c_{44}^{-3} + 4\sqrt{35} c_{42}^0 (c_{42}^2)^2 c_{44}^{-4}$$
$$-\sqrt{70} c_{42}^0 c_{42}^1 c_{42}^2 c_{44}^{-3} - 7\sqrt{5} c_{42}^0 (c_{42}^1)^2 c_{44}^{-2} + \sqrt{30}(c_{42}^0)^2 c_{42}^2 c_{44}^{-2} + 4\sqrt{15}(c_{42}^0)^2 c_{42}^1 c_{44}^{-1}$$
$$-6\sqrt{2}(c_{42}^0)^3 c_{44}^0 - 2\sqrt{105} c_{42}^{-1}(c_{42}^2)^2 c_{44}^{-3} + 5\sqrt{30} c_{42}^{-1} c_{42}^1 c_{42}^2 c_{44}^{-2} - \sqrt{15} c_{42}^{-1}(c_{42}^1)^2 c_{44}^{-1}$$
$$-7\sqrt{10} c_{42}^{-1} c_{42}^0 c_{42}^2 c_{44}^{-1} - 2\sqrt{2} c_{42}^{-1} c_{42}^0 c_{42}^1 c_{44}^0 + 4\sqrt{15} c_{42}^{-1}(c_{42}^0)^2 c_{44}^1 + 7\sqrt{3}(c_{42}^{-1})^2 c_{42}^2 c_{44}^0$$
$$-\sqrt{15}(c_{42}^{-1})^2 c_{42}^1 c_{44}^1 - 7\sqrt{5}(c_{42}^{-1})^2 c_{42}^0 c_{44}^2 + \sqrt{105}(c_{42}^{-1})^3 c_{44}^3 + 2\sqrt{30} c_{42}^{-2}(c_{42}^2)^2 c_{44}^{-2}$$
$$-6\sqrt{15} c_{42}^{-2} c_{42}^1 c_{42}^2 c_{44}^{-1} + 7\sqrt{3} c_{42}^{-2}(c_{42}^1)^2 c_{44}^0 + 16\sqrt{2} c_{42}^{-2} c_{42}^0 c_{42}^2 c_{44}^0 - 7\sqrt{10} c_{42}^{-2} c_{42}^0 c_{42}^1 c_{44}^1$$
$$+\sqrt{30} c_{42}^{-2}(c_{42}^0)^2 c_{44}^2 - 6\sqrt{15} c_{42}^{-2} c_{42}^{-1} c_{42}^2 c_{44}^1 + 5\sqrt{30} c_{42}^{-2} c_{42}^{-1} c_{42}^1 c_{44}^2 - \sqrt{70} c_{42}^{-2} c_{42}^{-1} c_{42}^0 c_{44}^3$$
$$-\sqrt{210} c_{42}^{-2}(c_{42}^{-1})^2 c_{44}^4 + 2\sqrt{30}(c_{42}^{-2})^2 c_{42}^2 c_{44}^2 - 2\sqrt{105}(c_{42}^{-2})^2 c_{42}^1 c_{44}^3$$
$$+4\sqrt{35}(c_{42}^{-2})^2 c_{42}^0 c_{44}^4)/(c_{00}^0)^{28/3}$$

$$\Phi_{38} \;=\; c_5(5,5)_0^0 = \sqrt{\frac{1}{11}}(-(c_{55}^0)^2 + 2c_{55}^{-1}c_{55}^1 - 2c_{55}^{-2}c_{55}^2 + 2c_{55}^{-3}c_{55}^3 - 2c_{55}^{-4}c_{55}^4 + 2c_{55}^{-5}c_{55}^5)/(c_{00}^0)^{16/3}$$

$$\Phi_{39} \;=\; c_5(3,3)_0^0 = \sqrt{\frac{1}{7}}(-(c_{53}^0)^2 + 2c_{53}^{-1}c_{53}^1 - 2c_{53}^{-2}c_{53}^2 + 2c_{53}^{-3}c_{53}^3)/(c_{00}^0)^{16/3}$$

$$\Phi_{40} \;=\; c_5(1,1)_0^0 = \sqrt{\frac{1}{3}}(-(c_{51}^0)^2 + 2c_{51}^{-1}c_{51}^1)/(c_{00}^0)^{16/3}$$

$$\begin{aligned}
\Phi_{41} \;=\; c_5(5,5)_2c_2 &= \sqrt{\frac{1}{2145}}(5\sqrt{3}c_{22}^2(c_{55}^{-1})^2 - 2\sqrt{70}c_{22}^2c_{55}^{-2}c_{55}^0 + 4\sqrt{14}c_{22}^2c_{55}^{-3}c_{55}^1 - 12c_{22}^2c_{55}^{-4}c_{55}^2 \\
&\quad +2\sqrt{15}c_{22}^2c_{55}^{-5}c_{55}^3 - \sqrt{10}c_{22}^1c_{55}^{-1}c_{55}^0 + 2\sqrt{21}c_{22}^1c_{55}^{-2}c_{55}^1 - 10\sqrt{2}c_{22}^1c_{55}^{-3}c_{55}^2 \\
&\quad +7\sqrt{6}c_{22}^1c_{55}^{-4}c_{55}^3 - 3\sqrt{30}c_{22}^1c_{55}^{-5}c_{55}^4 + 5\sqrt{2}c_{22}^0(c_{55}^0)^2 - 9\sqrt{2}c_{22}^0c_{55}^{-1}c_{55}^1 + 6\sqrt{2}c_{22}^0c_{55}^{-2}c_{55}^2 \\
&\quad -\sqrt{2}c_{22}^0c_{55}^{-3}c_{55}^3 - 6\sqrt{2}c_{22}^0c_{55}^{-4}c_{55}^4 + 15\sqrt{2}c_{22}^0c_{55}^{-5}c_{55}^5 - \sqrt{10}c_{22}^{-1}c_{55}^0c_{55}^1 + 2\sqrt{21}c_{22}^{-1}c_{55}^{-1}c_{55}^2 \\
&\quad -10\sqrt{2}c_{22}^{-1}c_{55}^{-2}c_{55}^3 + 7\sqrt{6}c_{22}^{-1}c_{55}^{-3}c_{55}^4 - 3\sqrt{30}c_{22}^{-1}c_{55}^{-4}c_{55}^5 + 5\sqrt{3}c_{22}^{-2}(c_{55}^1)^2 - 2\sqrt{70}c_{22}^{-2}c_{55}^0c_{55}^2 \\
&\quad +4\sqrt{14}c_{22}^{-2}c_{55}^{-1}c_{55}^3 - 12c_{22}^{-2}c_{55}^{-2}c_{55}^4 + 2\sqrt{15}c_{22}^{-2}c_{55}^{-3}c_{55}^5)/(c_{00}^0)^7
\end{aligned}$$

$$\begin{aligned}
\Phi_{42} \;=\; c_5(5,3)_2c_2 &= \sqrt{\frac{1}{2310}}(\sqrt{210}c_{22}^2c_{53}^3c_{55}^{-5} - 3\sqrt{14}c_{22}^2c_{53}^2c_{55}^{-4} + \sqrt{70}c_{22}^2c_{53}^1c_{55}^{-3} \\
&\quad -\sqrt{35}c_{22}^2c_{53}^0c_{55}^{-2} + \sqrt{15}c_{22}^2c_{53}^{-1}c_{55}^{-1} - \sqrt{5}c_{22}^2c_{53}^{-2}c_{55}^0 + c_{22}^2c_{53}^{-3}c_{55}^1 - 2\sqrt{21}c_{22}^1c_{53}^3c_{55}^{-4} \\
&\quad +4\sqrt{7}c_{22}^1c_{53}^2c_{55}^{-3} - \sqrt{105}c_{22}^1c_{53}^1c_{55}^{-2} + 4\sqrt{5}c_{22}^1c_{53}^0c_{55}^{-1} - 5\sqrt{2}c_{22}^1c_{53}^{-1}c_{55}^0 + 2\sqrt{6}c_{22}^1c_{53}^{-2}c_{55}^1 \\
&\quad -\sqrt{7}c_{22}^1c_{53}^{-3}c_{55}^2 + 2\sqrt{7}c_{22}^0c_{53}^3c_{55}^{-3} - 3\sqrt{7}c_{22}^0c_{53}^2c_{55}^{-2} + 3\sqrt{10}c_{22}^0c_{53}^1c_{55}^{-1} - 10c_{22}^0c_{53}^0c_{55}^0 \\
&\quad +3\sqrt{10}c_{22}^0c_{53}^{-1}c_{55}^1 - 3\sqrt{7}c_{22}^0c_{53}^{-2}c_{55}^2 + 2\sqrt{7}c_{22}^0c_{53}^{-3}c_{55}^3 - \sqrt{7}c_{22}^{-1}c_{53}^3c_{55}^{-2} + 2\sqrt{6}c_{22}^{-1}c_{53}^2c_{55}^{-1} \\
&\quad -5\sqrt{2}c_{22}^{-1}c_{53}^1c_{55}^0 + 4\sqrt{5}c_{22}^{-1}c_{53}^0c_{55}^1 - \sqrt{105}c_{22}^{-1}c_{53}^{-1}c_{55}^2 + 4\sqrt{7}c_{22}^{-1}c_{53}^{-2}c_{55}^3 - 2\sqrt{21}c_{22}^{-1}c_{53}^{-3}c_{55}^4 \\
&\quad +c_{22}^{-2}c_{53}^3c_{55}^{-1} - \sqrt{5}c_{22}^{-2}c_{53}^2c_{55}^0 + \sqrt{15}c_{22}^{-2}c_{53}^1c_{55}^1 - \sqrt{35}c_{22}^{-2}c_{53}^0c_{55}^2 + \sqrt{70}c_{22}^{-2}c_{53}^{-1}c_{55}^3 \\
&\quad -3\sqrt{14}c_{22}^{-2}c_{53}^{-2}c_{55}^4 + \sqrt{210}c_{22}^{-2}c_{53}^{-3}c_{55}^5)/(c_{00}^0)^7
\end{aligned}$$

$$\begin{aligned}
\Phi_{43} \;=\; c_5(3,3)_2c_2 &= \sqrt{\frac{1}{105}}(\sqrt{6}c_{22}^2(c_{53}^{-1})^2 - 2\sqrt{5}c_{22}^2c_{53}^{-2}c_{53}^0 + \sqrt{10}c_{22}^2c_{53}^{-3}c_{53}^1 - \sqrt{2}c_{22}^1c_{53}^{-1}c_{53}^0 \\
&\quad +\sqrt{15}c_{22}^1c_{53}^{-2}c_{53}^1 - 5c_{22}^1c_{53}^{-3}c_{53}^2 + 2c_{22}^0(c_{53}^0)^2 - 3c_{22}^0c_{53}^{-1}c_{53}^1 + 5c_{22}^0c_{53}^{-3}c_{53}^3 \\
&\quad -\sqrt{2}c_{22}^{-1}c_{53}^0c_{53}^1 + \sqrt{15}c_{22}^{-1}c_{53}^{-1}c_{53}^2 - 5c_{22}^{-1}c_{53}^{-2}c_{53}^3 + \sqrt{6}c_{22}^{-2}(c_{53}^1)^2 - 2\sqrt{5}c_{22}^{-2}c_{53}^0c_{53}^2 \\
&\quad +\sqrt{10}c_{22}^{-2}c_{53}^{-1}c_{53}^3)/(c_{00}^0)^7
\end{aligned}$$

$$\begin{aligned}
\Phi_{44} \;=\; c_5(3,1)_2c_2 &= \sqrt{\frac{1}{105}}(\sqrt{15}c_{22}^2c_{51}^1c_{53}^{-3} - \sqrt{5}c_{22}^2c_{51}^0c_{53}^{-2} + c_{22}^2c_{51}^{-1}c_{53}^{-1} - \sqrt{10}c_{22}^1c_{51}^1c_{53}^{-2} \\
&\quad +2\sqrt{2}c_{22}^1c_{51}^0c_{53}^{-1} - \sqrt{3}c_{22}^1c_{51}^{-1}c_{53}^0 + \sqrt{6}c_{22}^0c_{51}^1c_{53}^{-1} - 3c_{22}^0c_{51}^0c_{53}^0 + \sqrt{6}c_{22}^0c_{51}^{-1}c_{53}^1 \\
&\quad -\sqrt{3}c_{22}^{-1}c_{51}^1c_{53}^0 + 2\sqrt{2}c_{22}^{-1}c_{51}^0c_{53}^1 - \sqrt{10}c_{22}^{-1}c_{51}^{-1}c_{53}^2 + c_{22}^{-2}c_{51}^1c_{53}^1 - \sqrt{5}c_{22}^{-2}c_{51}^0c_{53}^2 \\
&\quad +\sqrt{15}c_{22}^{-2}c_{51}^{-1}c_{53}^3)/(c_{00}^0)^7
\end{aligned}$$

$$\begin{aligned}
\Phi_{45} \;=\; c_5(1,1)_2c_2 &= \sqrt{\frac{1}{15}}(\sqrt{3}c_{22}^2(c_{51}^{-1})^2 - \sqrt{6}c_{22}^1c_{51}^{-1}c_{51}^0 + \sqrt{2}c_{22}^0(c_{51}^0)^2 + \sqrt{2}c_{22}^0c_{51}^{-1}c_{51}^1 \\
&\quad -\sqrt{6}c_{22}^{-1}c_{51}^0c_{51}^1 + \sqrt{3}c_{22}^{-2}(c_{51}^1)^2)/(c_{00}^0)^7
\end{aligned}$$

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$$\Phi_{46} = c_5(5,5)_2 c_4 = \sqrt{\frac{1}{2145}}(5\sqrt{3}c_{42}^2(c_{55}^{-1})^2 - 2\sqrt{70}c_{42}^2 c_{55}^{-2}c_{55}^0 + 4\sqrt{14}c_{42}^2 c_{55}^{-3}c_{55}^1 - 12c_{42}^2 c_{55}^{-4}c_{55}^2$$
$$+2\sqrt{15}c_{42}^2 c_{55}^{-5}c_{55}^3 - \sqrt{10}c_{42}^1 c_{55}^{-1}c_{55}^0 + 2\sqrt{21}c_{42}^1 c_{55}^{-2}c_{55}^1 - 10\sqrt{2}c_{42}^1 c_{55}^{-3}c_{55}^2$$
$$+7\sqrt{6}c_{42}^1 c_{55}^{-4}c_{55}^3 - 3\sqrt{30}c_{42}^1 c_{55}^{-5}c_{55}^4 + 5\sqrt{2}c_{42}^0(c_{55}^0)^2 - 9\sqrt{2}c_{42}^0 c_{55}^{-1}c_{55}^1 + 6\sqrt{2}c_{42}^0 c_{55}^{-2}c_{55}^2$$
$$-\sqrt{2}c_{42}^0 c_{55}^{-3}c_{55}^3 - 6\sqrt{2}c_{42}^0 c_{55}^{-4}c_{55}^4 + 15\sqrt{2}c_{42}^0 c_{55}^{-5}c_{55}^5 - \sqrt{10}c_{42}^{-1}c_{55}^0 c_{55}^1 + 2\sqrt{21}c_{42}^{-1}c_{55}^{-1}c_{55}^2$$
$$-10\sqrt{2}c_{42}^{-1}c_{55}^{-2}c_{55}^3 + 7\sqrt{6}c_{42}^{-1}c_{55}^{-3}c_{55}^4 - 3\sqrt{30}c_{42}^{-1}c_{55}^{-4}c_{55}^5 + 5\sqrt{3}c_{42}^{-2}(c_{55}^1)^2 - 2\sqrt{70}c_{42}^{-2}c_{55}^0 c_{55}^2$$
$$+4\sqrt{14}c_{42}^{-2}c_{55}^{-1}c_{55}^3 - 12c_{42}^{-2}c_{55}^{-2}c_{55}^4 + 2\sqrt{15}c_{42}^{-2}c_{55}^{-3}c_{55}^5)/(c_{00}^0)^{23/3}$$

$$\Phi_{47} = c_5(5,3)_2 c_4 = \sqrt{\frac{1}{2310}}(\sqrt{210}c_{42}^2 c_{53}^3 c_{55}^{-5} - 3\sqrt{14}c_{42}^2 c_{53}^2 c_{55}^{-4} + \sqrt{70}c_{42}^2 c_{53}^1 c_{55}^{-3}$$
$$-\sqrt{35}c_{42}^2 c_{53}^0 c_{55}^{-2} + \sqrt{15}c_{42}^2 c_{53}^{-1}c_{55}^{-1} - \sqrt{5}c_{42}^2 c_{53}^{-2}c_{55}^0 + c_{42}^2 c_{53}^{-3}c_{55}^1 - 2\sqrt{21}c_{42}^1 c_{53}^3 c_{55}^{-4}$$
$$+4\sqrt{7}c_{42}^1 c_{53}^2 c_{55}^{-3} - \sqrt{105}c_{42}^1 c_{53}^1 c_{55}^{-2} + 4\sqrt{5}c_{42}^1 c_{53}^0 c_{55}^{-1} - 5\sqrt{2}c_{42}^1 c_{53}^{-1}c_{55}^0 + 2\sqrt{6}c_{42}^1 c_{53}^{-2}c_{55}^1$$
$$-\sqrt{7}c_{42}^1 c_{53}^{-3}c_{55}^2 + 2\sqrt{7}c_{42}^0 c_{53}^3 c_{55}^{-3} - 3\sqrt{7}c_{42}^0 c_{53}^2 c_{55}^{-2} + 3\sqrt{10}c_{42}^0 c_{53}^1 c_{55}^{-1} - 10c_{42}^0 c_{53}^0 c_{55}^0$$
$$+3\sqrt{10}c_{42}^0 c_{53}^{-1}c_{55}^1 - 3\sqrt{7}c_{42}^0 c_{53}^{-2}c_{55}^2 + 2\sqrt{7}c_{42}^0 c_{53}^{-3}c_{55}^3 - \sqrt{7}c_{42}^{-1}c_{53}^3 c_{55}^{-2} + 2\sqrt{6}c_{42}^{-1}c_{53}^2 c_{55}^{-1}$$
$$-5\sqrt{2}c_{42}^{-1}c_{53}^1 c_{55}^0 + 4\sqrt{5}c_{42}^{-1}c_{53}^0 c_{55}^1 - \sqrt{105}c_{42}^{-1}c_{53}^{-1}c_{55}^2 + 4\sqrt{7}c_{42}^{-1}c_{53}^{-2}c_{55}^3 - 2\sqrt{21}c_{42}^{-1}c_{53}^{-3}c_{55}^4$$
$$+c_{42}^{-2}c_{53}^3 c_{55}^{-1} - \sqrt{5}c_{42}^{-2}c_{53}^2 c_{55}^0 + \sqrt{15}c_{42}^{-2}c_{53}^1 c_{55}^1 - \sqrt{35}c_{42}^{-2}c_{53}^0 c_{55}^2 + \sqrt{70}c_{42}^{-2}c_{53}^{-1}c_{55}^3$$
$$-3\sqrt{14}c_{42}^{-2}c_{53}^{-2}c_{55}^4 + \sqrt{210}c_{42}^{-2}c_{53}^{-3}c_{55}^5)/(c_{00}^0)^{23/3}$$

$$\Phi_{48} = c_5(3,3)_2 c_4 = \sqrt{\frac{1}{105}}(\sqrt{6}c_{42}^2(c_{53}^{-1})^2 - 2\sqrt{5}c_{42}^2 c_{53}^{-2}c_{53}^0 + \sqrt{10}c_{42}^2 c_{53}^{-3}c_{53}^1 - \sqrt{2}c_{42}^1 c_{53}^{-1}c_{53}^0$$
$$+\sqrt{15}c_{42}^1 c_{53}^{-2}c_{53}^1 - 5c_{42}^1 c_{53}^{-3}c_{53}^2 + 2c_{42}^0(c_{53}^0)^2 - 3c_{42}^0 c_{53}^{-1}c_{53}^1 + 5c_{42}^0 c_{53}^{-3}c_{53}^3$$
$$-\sqrt{2}c_{42}^{-1}c_{53}^0 c_{53}^1 + \sqrt{15}c_{42}^{-1}c_{53}^{-1}c_{53}^2 - 5c_{42}^{-1}c_{53}^{-2}c_{53}^3 + \sqrt{6}c_{42}^{-2}(c_{53}^1)^2 - 2\sqrt{5}c_{42}^{-2}c_{53}^0 c_{53}^2$$
$$+\sqrt{10}c_{42}^{-2}c_{53}^{-1}c_{53}^3)/(c_{00}^0)^{23/3}$$

$$\Phi_{49} = c_5(3,1)_2 c_4 = \sqrt{\frac{1}{105}}(\sqrt{15}c_{42}^2 c_{51}^1 c_{53}^{-3} - \sqrt{5}c_{42}^2 c_{51}^0 c_{53}^{-2} + c_{42}^2 c_{51}^{-1}c_{53}^{-1} - \sqrt{10}c_{42}^1 c_{51}^1 c_{53}^{-2}$$
$$+2\sqrt{2}c_{42}^1 c_{51}^0 c_{53}^{-1} - \sqrt{3}c_{42}^1 c_{51}^{-1}c_{53}^0 + \sqrt{6}c_{42}^0 c_{51}^1 c_{53}^{-1} - 3c_{42}^0 c_{51}^0 c_{53}^0 + \sqrt{6}c_{42}^0 c_{51}^{-1}c_{53}^1$$
$$-\sqrt{3}c_{42}^{-1}c_{51}^1 c_{53}^0 + 2\sqrt{2}c_{42}^{-1}c_{51}^0 c_{53}^1 - \sqrt{10}c_{42}^{-1}c_{51}^{-1}c_{53}^2 + c_{42}^{-2}c_{51}^1 c_{53}^1 - \sqrt{5}c_{42}^{-2}c_{51}^0 c_{53}^2$$
$$+\sqrt{15}c_{42}^{-2}c_{51}^{-1}c_{53}^3)/(c_{00}^0)^{23/3}$$

$$\Phi_{50} = c_5(1,1)_2 c_4 = \sqrt{\frac{1}{15}}(\sqrt{3}c_{42}^2(c_{51}^{-1})^2 - \sqrt{6}c_{42}^1 c_{51}^{-1}c_{51}^0 + \sqrt{2}c_{42}^0(c_{51}^0)^2 + \sqrt{2}c_{42}^0 c_{51}^{-1}c_{51}^1$$
$$-\sqrt{6}c_{42}^{-1}c_{51}^0 c_{51}^1 + \sqrt{3}c_{42}^{-2}(c_{51}^1)^2)/(c_{00}^0)^{23/3}$$

$$\Phi_{51} = c_5(5,5)_4 c_4 = \frac{1}{3}\sqrt{\frac{1}{143}}(-\sqrt{35}c_{44}^4(c_{55}^{-2})^2 + 2\sqrt{30}c_{44}^4 c_{55}^{-3}c_{55}^{-1} - 6\sqrt{2}c_{44}^4 c_{55}^{-4}c_{55}^0$$
$$+2\sqrt{6}c_{44}^4 c_{55}^{-5}c_{55}^1 + \sqrt{10}c_{44}^3 c_{55}^{-2}c_{55}^{-1} - 6\sqrt{2}c_{44}^3 c_{55}^{-3}c_{55}^0 + 2\sqrt{30}c_{44}^3 c_{55}^{-4}c_{55}^1 - 2\sqrt{21}c_{44}^3 c_{55}^{-5}c_{55}^2$$
$$-2\sqrt{5}c_{44}^2(c_{55}^{-1})^2 + \sqrt{42}c_{44}^2 c_{55}^{-2}c_{55}^0 - 2\sqrt{15}c_{44}^2 c_{55}^{-4}c_{55}^2 + 12c_{44}^2 c_{55}^{-5}c_{55}^3 + 2\sqrt{3}c_{44}^1 c_{55}^{-1}c_{55}^0$$
$$-\sqrt{70}c_{44}^1 c_{55}^{-2}c_{55}^1 + 2\sqrt{15}c_{44}^1 c_{55}^{-3}c_{55}^2 - 12c_{44}^1 c_{55}^{-5}c_{55}^4 - 3\sqrt{2}c_{44}^0(c_{55}^0)^2 + 4\sqrt{2}c_{44}^0 c_{55}^{-1}c_{55}^1$$
$$+\sqrt{2}c_{44}^0 c_{55}^{-2}c_{55}^2 - 6\sqrt{2}c_{44}^0 c_{55}^{-3}c_{55}^3 + 6\sqrt{2}c_{44}^0 c_{55}^{-4}c_{55}^4 + 6\sqrt{2}c_{44}^0 c_{55}^{-5}c_{55}^5 + 2\sqrt{3}c_{44}^{-1}c_{55}^0 c_{55}^1$$
$$-\sqrt{70}c_{44}^{-1}c_{55}^{-1}c_{55}^2 + 2\sqrt{15}c_{44}^{-1}c_{55}^{-2}c_{55}^3 - 12c_{44}^{-1}c_{55}^{-4}c_{55}^5 - 2\sqrt{5}c_{44}^{-2}(c_{55}^1)^2 + \sqrt{42}c_{44}^{-2}c_{55}^0 c_{55}^2$$
$$-2\sqrt{15}c_{44}^{-2}c_{55}^{-2}c_{55}^4 + 12c_{44}^{-2}c_{55}^{-3}c_{55}^5 + \sqrt{10}c_{44}^{-3}c_{55}^1 c_{55}^2 - 6\sqrt{2}c_{44}^{-3}c_{55}^0 c_{55}^3 + 2\sqrt{30}c_{44}^{-3}c_{55}^{-1}c_{55}^4$$
$$-2\sqrt{21}c_{44}^{-3}c_{55}^{-2}c_{55}^5 - \sqrt{35}c_{44}^{-4}(c_{55}^2)^2 + 2\sqrt{30}c_{44}^{-4}c_{55}^1 c_{55}^3 - 6\sqrt{2}c_{44}^{-4}c_{55}^0 c_{55}^4$$
$$+2\sqrt{6}c_{44}^{-4}c_{55}^{-1}c_{55}^5)/(c_{00}^0)^{23/3}$$

$$\Phi_{52} \;=\; c_5(5,3)_4 c_4 = \frac{1}{6}\sqrt{\frac{1}{5005}}(14\sqrt{30}c_{44}^4 c_{53}^1 c_{55}^{-5} - 84c_{44}^4 c_{53}^0 c_{55}^{-4} + 28\sqrt{6}c_{44}^4 c_{53}^{-1} c_{55}^{-3}$$
$$-14\sqrt{10}c_{44}^4 c_{53}^{-2} c_{55}^{-2} + 2\sqrt{105}c_{44}^4 c_{53}^{-3} c_{55}^{-1} - 35\sqrt{6}c_{44}^3 c_{53}^2 c_{55}^{-5} + 7\sqrt{6}c_{44}^3 c_{53}^1 c_{55}^{-4}$$
$$+42c_{44}^3 c_{53}^0 c_{55}^{-3} - 49\sqrt{2}c_{44}^3 c_{53}^{-1} c_{55}^{-2} + 11\sqrt{35}c_{44}^3 c_{53}^{-2} c_{55}^{-1} - 15\sqrt{7}c_{44}^3 c_{53}^{-3} c_{55}^0$$
$$+15\sqrt{14}c_{44}^2 c_{53}^3 c_{55}^{-5} + 4\sqrt{210}c_{44}^2 c_{53}^2 c_{55}^{-4} - 9\sqrt{42}c_{44}^2 c_{53}^1 c_{55}^{-3} + 2\sqrt{21}c_{44}^2 c_{53}^0 c_{55}^{-2}$$
$$+43c_{44}^2 c_{53}^{-1} c_{55}^{-4} - 40\sqrt{3}c_{44}^2 c_{53}^{-2} c_{55}^0 + 15\sqrt{15}c_{44}^2 c_{53}^{-3} c_{55}^1 - 9\sqrt{70}c_{44}^1 c_{53}^3 c_{55}^{-4}$$
$$-\sqrt{210}c_{44}^1 c_{53}^2 c_{55}^{-3} + 16\sqrt{14}c_{44}^1 c_{53}^1 c_{55}^{-2} - 19\sqrt{6}c_{44}^1 c_{53}^0 c_{55}^{-1} - \sqrt{15}c_{44}^1 c_{53}^{-1} c_{55}^0$$
$$+25\sqrt{5}c_{44}^1 c_{53}^{-2} c_{55}^1 - 5\sqrt{210}c_{44}^1 c_{53}^{-3} c_{55}^2 + 30\sqrt{7}c_{44}^0 c_{53}^3 c_{55}^{-3} - 10\sqrt{7}c_{44}^0 c_{53}^2 c_{55}^{-2}$$
$$-11\sqrt{10}c_{44}^0 c_{53}^1 c_{55}^{-1} + 60c_{44}^0 c_{53}^0 c_{55}^0 - 11\sqrt{10}c_{44}^0 c_{53}^{-1} c_{55}^1 - 10\sqrt{7}c_{44}^0 c_{53}^{-2} c_{55}^2$$
$$+30\sqrt{7}c_{44}^0 c_{53}^{-3} c_{55}^3 - 5\sqrt{210}c_{44}^{-1} c_{53}^3 c_{55}^{-2} + 25\sqrt{5}c_{44}^{-1} c_{53}^2 c_{55}^{-1} - \sqrt{15}c_{44}^{-1} c_{53}^1 c_{55}^0$$
$$-19\sqrt{6}c_{44}^{-1} c_{53}^0 c_{55}^1 + 16\sqrt{14}c_{44}^{-1} c_{53}^{-1} c_{55}^2 - \sqrt{210}c_{44}^{-1} c_{53}^{-2} c_{55}^3 - 9\sqrt{70}c_{44}^{-1} c_{53}^{-3} c_{55}^4$$
$$+15\sqrt{15}c_{44}^{-2} c_{53}^3 c_{55}^{-1} - 40\sqrt{3}c_{44}^{-2} c_{53}^2 c_{55}^0 + 43c_{44}^{-2} c_{53}^1 c_{55}^1 + 2\sqrt{21}c_{44}^{-2} c_{53}^0 c_{55}^2$$
$$-9\sqrt{42}c_{44}^{-2} c_{53}^{-1} c_{55}^3 + 4\sqrt{210}c_{44}^{-2} c_{53}^{-2} c_{55}^4 + 15\sqrt{14}c_{44}^{-2} c_{53}^{-3} c_{55}^5 - 15\sqrt{7}c_{44}^{-3} c_{53}^3 c_{55}^0$$
$$+11\sqrt{35}c_{44}^{-3} c_{53}^2 c_{55}^1 - 49\sqrt{2}c_{44}^{-3} c_{53}^1 c_{55}^2 + 42c_{44}^{-3} c_{53}^0 c_{55}^3 + 7\sqrt{6}c_{44}^{-3} c_{53}^{-1} c_{55}^4$$
$$-35\sqrt{6}c_{44}^{-3} c_{53}^{-2} c_{55}^5 + 2\sqrt{105}c_{44}^{-4} c_{53}^3 c_{55}^1 - 14\sqrt{10}c_{44}^{-4} c_{53}^2 c_{55}^2 + 28\sqrt{6}c_{44}^{-4} c_{53}^1 c_{55}^3$$
$$-84c_{44}^{-4} c_{53}^0 c_{55}^4 + 14\sqrt{30}c_{44}^{-4} c_{53}^{-1} c_{55}^5)/(c_{00}^0)^{23/3}$$

$$\Phi_{53} \;=\; c_5(5,1)_4 c_4 = \frac{1}{3}\sqrt{\frac{1}{55}}(3\sqrt{5}c_{44}^4 c_{51}^1 c_{55}^{-5} - 3c_{44}^4 c_{51}^0 c_{55}^{-4} + c_{44}^4 c_{51}^{-1} c_{55}^{-3} - 6c_{44}^3 c_{51}^1 c_{55}^{-4}$$
$$+4c_{44}^3 c_{51}^0 c_{55}^{-3} - \sqrt{3}c_{44}^3 c_{51}^{-1} c_{55}^{-2} + 2\sqrt{7}c_{44}^2 c_{51}^1 c_{55}^{-3} - \sqrt{21}c_{44}^2 c_{51}^0 c_{55}^{-2} + \sqrt{6}c_{44}^2 c_{51}^{-1} c_{55}^{-1}$$
$$-\sqrt{21}c_{44}^1 c_{51}^1 c_{55}^{-2} + 2\sqrt{6}c_{44}^1 c_{51}^0 c_{55}^{-1} - \sqrt{10}c_{44}^1 c_{51}^{-1} c_{55}^0 + \sqrt{15}c_{44}^0 c_{51}^1 c_{55}^{-1} - 5c_{44}^0 c_{51}^0 c_{55}^0$$
$$+\sqrt{15}c_{44}^0 c_{51}^{-1} c_{55}^1 - \sqrt{10}c_{44}^{-1} c_{51}^1 c_{55}^0 + 2\sqrt{6}c_{44}^{-1} c_{51}^0 c_{55}^1 - \sqrt{21}c_{44}^{-1} c_{51}^{-1} c_{55}^2 + \sqrt{6}c_{44}^{-2} c_{51}^1 c_{55}^1$$
$$-\sqrt{21}c_{44}^{-2} c_{51}^0 c_{55}^2 + 2\sqrt{7}c_{44}^{-2} c_{51}^{-1} c_{55}^3 - \sqrt{3}c_{44}^{-3} c_{51}^1 c_{55}^2 + 4c_{44}^{-3} c_{51}^0 c_{55}^3 - 6c_{44}^{-3} c_{51}^{-1} c_{55}^4$$
$$+c_{44}^{-4} c_{51}^1 c_{55}^3 - 3c_{44}^{-4} c_{51}^0 c_{55}^4 + 3\sqrt{5}c_{44}^{-4} c_{51}^{-1} c_{55}^5)/(c_{00}^0)^{23/3}$$

$$\Phi_{54} \;=\; c_5(3,3)_4 c_4 = \frac{1}{3}\sqrt{\frac{1}{77}}(-\sqrt{35}c_{44}^4 (c_{53}^{-2})^2 + 2\sqrt{21}c_{44}^4 c_{53}^{-3} c_{53}^{-1} + 2\sqrt{7}c_{44}^3 c_{53}^{-2} c_{53}^{-1}$$
$$-3\sqrt{14}c_{44}^3 c_{53}^{-3} c_{53}^0 - 2\sqrt{5}c_{44}^2 (c_{53}^{-1})^2 + \sqrt{6}c_{44}^2 c_{53}^{-2} c_{53}^0 + 6\sqrt{3}c_{44}^2 c_{53}^{-3} c_{53}^1 + \sqrt{30}c_{44}^1 c_{53}^{-1} c_{53}^0$$
$$-8c_{44}^1 c_{53}^{-2} c_{53}^1 - 2\sqrt{15}c_{44}^1 c_{53}^{-3} c_{53}^2 - 3\sqrt{2}c_{44}^0 (c_{53}^0)^2 + \sqrt{2}c_{44}^0 c_{53}^{-1} c_{53}^1 + 7\sqrt{2}c_{44}^0 c_{53}^{-2} c_{53}^2$$
$$+3\sqrt{2}c_{44}^0 c_{53}^{-3} c_{53}^3 + \sqrt{30}c_{44}^{-1} c_{53}^0 c_{53}^1 - 8c_{44}^{-1} c_{53}^{-1} c_{53}^2 - 2\sqrt{15}c_{44}^{-1} c_{53}^{-2} c_{53}^3 - 2\sqrt{5}c_{44}^{-2} (c_{53}^1)^2$$
$$+\sqrt{6}c_{44}^{-2} c_{53}^0 c_{53}^2 + 6\sqrt{3}c_{44}^{-2} c_{53}^{-1} c_{53}^3 + 2\sqrt{7}c_{44}^{-3} c_{53}^1 c_{53}^2 - 3\sqrt{14}c_{44}^{-3} c_{53}^0 c_{53}^3 - \sqrt{35}c_{44}^{-4}(c_{53}^2)^2$$
$$+2\sqrt{21}c_{44}^{-4} c_{53}^1 c_{53}^3)/(c_{00}^0)^{23/3}$$

$$\Phi_{55} \;=\; c_5(3,1)_4 c_4 = \frac{1}{6}\sqrt{\frac{1}{7}}(2\sqrt{7}c_{44}^4 c_{51}^{-1} c_{53}^{-3} - \sqrt{7}c_{44}^3 c_{51}^0 c_{53}^{-3} - \sqrt{21}c_{44}^3 c_{51}^{-1} c_{53}^{-2} + c_{44}^2 c_{51}^1 c_{53}^{-3}$$
$$+2\sqrt{3}c_{44}^2 c_{51}^0 c_{53}^{-2} + \sqrt{15}c_{44}^2 c_{51}^{-1} c_{53}^{-1} - \sqrt{3}c_{44}^1 c_{51}^1 c_{53}^{-2} - \sqrt{15}c_{44}^1 c_{51}^0 c_{53}^{-1} - \sqrt{10}c_{44}^1 c_{51}^{-1} c_{53}^0$$
$$+\sqrt{6}c_{44}^0 c_{51}^1 c_{53}^{-1} + 4c_{44}^0 c_{51}^0 c_{53}^0 + \sqrt{6}c_{44}^0 c_{51}^{-1} c_{53}^1 - \sqrt{10}c_{44}^{-1} c_{51}^1 c_{53}^0 - \sqrt{15}c_{44}^{-1} c_{51}^0 c_{53}^1$$
$$-\sqrt{3}c_{44}^{-1} c_{51}^{-1} c_{53}^2 + \sqrt{15}c_{44}^{-2} c_{51}^1 c_{53}^1 + 2\sqrt{3}c_{44}^{-2} c_{51}^0 c_{53}^2 + c_{44}^{-2} c_{51}^{-1} c_{53}^3 - \sqrt{21}c_{44}^{-3} c_{51}^1 c_{53}^2$$
$$-\sqrt{7}c_{44}^{-3} c_{51}^0 c_{53}^3 + 2\sqrt{7}c_{44}^{-4} c_{51}^1 c_{53}^3)/(c_{00}^0)^{23/3}$$

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$$\Phi_{56} = c_5(5,5)_2 c_2(2,2)_2 = \sqrt{\frac{1}{15015}}(-15(c_{22}^1)^2(c_{55}^{-1})^2 + 2\sqrt{210}(c_{22}^1)^2 c_{55}^{-2}c_{55}^0$$
$$-4\sqrt{42}(c_{22}^1)^2 c_{55}^{-3}c_{55}^1 + 12\sqrt{3}(c_{22}^1)^2 c_{55}^{-4}c_{55}^2 - 6\sqrt{5}(c_{22}^1)^2 c_{55}^{-5}c_{55}^3 + 10\sqrt{6}c_{22}^0 c_{22}^2(c_{55}^{-1})^2$$
$$-8\sqrt{35}c_{22}^0 c_{22}^2 c_{55}^{-2}c_{55}^0 + 16\sqrt{7}c_{22}^0 c_{22}^2 c_{55}^{-3}c_{55}^1 - 24\sqrt{2}c_{22}^0 c_{22}^2 c_{55}^{-4}c_{55}^2$$
$$+4\sqrt{30}c_{22}^0 c_{22}^2 c_{55}^{-5}c_{55}^3 + 2\sqrt{5}c_{22}^0 c_{22}^1 c_{55}^{-1}c_{55}^0 - 2\sqrt{42}c_{22}^0 c_{22}^1 c_{55}^{-2}c_{55}^1 + 20c_{22}^0 c_{22}^1 c_{55}^{-3}c_{55}^2$$
$$-14\sqrt{3}c_{22}^0 c_{22}^1 c_{55}^{-4}c_{55}^3 + 6\sqrt{15}c_{22}^0 c_{22}^1 c_{55}^{-5}c_{55}^4 - 10(c_{22}^0)^2(c_{55}^0)^2 + 18(c_{22}^0)^2 c_{55}^{-1}c_{55}^1$$
$$-12(c_{22}^0)^2 c_{55}^{-2}c_{55}^2 + 2(c_{22}^0)^2 c_{55}^{-3}c_{55}^3 + 12(c_{22}^0)^2 c_{55}^{-4}c_{55}^4 - 30(c_{22}^0)^2 c_{55}^{-5}c_{55}^5$$
$$-2\sqrt{30}c_{22}^{-1} c_{22}^2 c_{55}^{-2}c_{55}^0 + 12\sqrt{7}c_{22}^{-1} c_{22}^2 c_{55}^{-2}c_{55}^1 - 20\sqrt{6}c_{22}^{-1} c_{22}^2 c_{55}^{-3}c_{55}^2$$
$$+42\sqrt{2}c_{22}^{-1} c_{22}^2 c_{55}^{-4}c_{55}^3 - 18\sqrt{10}c_{22}^{-1} c_{22}^2 c_{55}^{-5}c_{55}^4 + 10c_{22}^{-1} c_{22}^1 (c_{55}^0)^2 - 18c_{22}^{-1} c_{22}^1 c_{55}^{-1}c_{55}^1$$
$$+12c_{22}^{-1} c_{22}^1 c_{55}^{-2}c_{55}^2 - 2c_{22}^{-1} c_{22}^1 c_{55}^{-3}c_{55}^3 - 12c_{22}^{-1} c_{22}^1 c_{55}^{-4}c_{55}^4 + 30c_{22}^{-1} c_{22}^1 c_{55}^{-5}c_{55}^5$$
$$+2\sqrt{5}c_{22}^{-1} c_{22}^0 c_{55}^0 c_{55}^1 - 2\sqrt{42}c_{22}^{-1} c_{22}^0 c_{55}^{-2}c_{55}^2 + 20c_{22}^{-1} c_{22}^0 c_{55}^{-3}c_{55}^3 - 14\sqrt{3}c_{22}^{-1} c_{22}^0 c_{55}^{-3}c_{55}^4$$
$$+6\sqrt{15}c_{22}^{-1} c_{22}^0 c_{55}^{-4}c_{55}^5 - 15(c_{22}^{-1})^2(c_{55}^1)^2 + 2\sqrt{210}(c_{22}^{-1})^2 c_{55}^0 c_{55}^2 - 4\sqrt{42}(c_{22}^{-1})^2 c_{55}^{-1}c_{55}^3$$
$$+12\sqrt{3}(c_{22}^{-1})^2 c_{55}^{-2}c_{55}^4 - 6\sqrt{5}(c_{22}^{-1})^2 c_{55}^{-3}c_{55}^5 + 20c_{22}^{-2} c_{22}^2(c_{55}^0)^2 - 36c_{22}^{-2} c_{22}^2 c_{55}^{-1}c_{55}^1$$
$$+24c_{22}^{-2} c_{22}^2 c_{55}^{-2}c_{55}^2 - 4c_{22}^{-2} c_{22}^2 c_{55}^{-3}c_{55}^3 - 24c_{22}^{-2} c_{22}^2 c_{55}^{-4}c_{55}^4 + 60c_{22}^{-2} c_{22}^2 c_{55}^{-5}c_{55}^5$$
$$-2\sqrt{30}c_{22}^{-2} c_{22}^1 c_{55}^0 c_{55}^1 + 12\sqrt{7}c_{22}^{-2} c_{22}^1 c_{55}^{-1}c_{55}^2 - 20\sqrt{6}c_{22}^{-2} c_{22}^1 c_{55}^{-2}c_{55}^3$$
$$+42\sqrt{2}c_{22}^{-2} c_{22}^1 c_{55}^{-3}c_{55}^4 - 18\sqrt{10}c_{22}^{-2} c_{22}^1 c_{55}^{-4}c_{55}^5 + 10\sqrt{6}c_{22}^{-2} c_{22}^0(c_{55}^1)^2$$
$$-8\sqrt{35}c_{22}^{-2} c_{22}^0 c_{55}^0 c_{55}^2 + 16\sqrt{7}c_{22}^{-2} c_{22}^0 c_{55}^{-1}c_{55}^3 - 24\sqrt{2}c_{22}^{-2} c_{22}^0 c_{55}^{-2}c_{55}^4$$
$$+4\sqrt{30}c_{22}^{-2} c_{22}^0 c_{55}^{-3}c_{55}^5)/(c_{00}^0)^{26/3}$$

$$\Phi_{57} = c_5(5,3)_2 c_2(2,2)_2 = \frac{1}{7}\sqrt{\frac{1}{330}}(-3\sqrt{70}(c_{22}^1)^2 c_{53}^3 c_{55}^{-5} + 3\sqrt{42}(c_{22}^1)^2 c_{53}^2 c_{55}^{-4}$$
$$-\sqrt{210}(c_{22}^1)^2 c_{53}^1 c_{55}^{-3} + \sqrt{105}(c_{22}^1)^2 c_{53}^0 c_{55}^{-2} - 3\sqrt{5}(c_{22}^1)^2 c_{53}^{-1}c_{55}^{-1} + \sqrt{15}(c_{22}^1)^2 c_{53}^{-2}c_{55}^0$$
$$-\sqrt{3}(c_{22}^1)^2 c_{53}^{-3}c_{55}^1 + 4\sqrt{105}c_{22}^0 c_{22}^2 c_{53}^3 c_{55}^{-5} - 12\sqrt{7}c_{22}^0 c_{22}^2 c_{53}^2 c_{55}^{-4} + 4\sqrt{35}c_{22}^0 c_{22}^2 c_{53}^1 c_{55}^{-3}$$
$$-2\sqrt{70}c_{22}^0 c_{22}^2 c_{53}^0 c_{55}^{-2} + 2\sqrt{30}c_{22}^0 c_{22}^2 c_{53}^{-1}c_{55}^{-1} - 2\sqrt{10}c_{22}^0 c_{22}^2 c_{53}^{-2}c_{55}^0 + 2\sqrt{2}c_{22}^0 c_{22}^2 c_{53}^{-3}c_{55}^1$$
$$+2\sqrt{42}c_{22}^0 c_{22}^1 c_{53}^3 c_{55}^{-4} - 4\sqrt{14}c_{22}^0 c_{22}^1 c_{53}^2 c_{55}^{-3} + \sqrt{210}c_{22}^0 c_{22}^1 c_{53}^1 c_{55}^{-2}$$
$$-4\sqrt{10}c_{22}^0 c_{22}^1 c_{53}^0 c_{55}^{-1} + 10c_{22}^0 c_{22}^1 c_{53}^{-1}c_{55}^0 - 4\sqrt{3}c_{22}^0 c_{22}^1 c_{53}^{-2}c_{55}^1 + \sqrt{14}c_{22}^0 c_{22}^1 c_{53}^{-3}c_{55}^2$$
$$-2\sqrt{14}(c_{22}^0)^2 c_{53}^3 c_{55}^{-3} + 3\sqrt{14}(c_{22}^0)^2 c_{53}^2 c_{55}^{-2} - 6\sqrt{5}(c_{22}^0)^2 c_{53}^1 c_{55}^{-1} + 10\sqrt{2}(c_{22}^0)^2 c_{53}^0 c_{55}^0$$
$$-6\sqrt{5}(c_{22}^0)^2 c_{53}^{-1}c_{55}^1 + 3\sqrt{14}(c_{22}^0)^2 c_{53}^{-2}c_{55}^2 - 2\sqrt{14}(c_{22}^0)^2 c_{53}^{-3}c_{55}^3 - 12\sqrt{7}c_{22}^{-1} c_{22}^2 c_{53}^3 c_{55}^{-4}$$
$$+8\sqrt{21}c_{22}^{-1} c_{22}^2 c_{53}^2 c_{55}^{-3} - 6\sqrt{35}c_{22}^{-1} c_{22}^2 c_{53}^1 c_{55}^{-2} + 8\sqrt{15}c_{22}^{-1} c_{22}^2 c_{53}^0 c_{55}^{-1}$$
$$-10\sqrt{6}c_{22}^{-1} c_{22}^2 c_{53}^{-1}c_{55}^0 + 12\sqrt{2}c_{22}^{-1} c_{22}^2 c_{53}^{-2}c_{55}^1 - 2\sqrt{21}c_{22}^{-1} c_{22}^2 c_{53}^{-3}c_{55}^2$$
$$+2\sqrt{14}c_{22}^{-1} c_{22}^1 c_{53}^3 c_{55}^{-3} - 3\sqrt{14}c_{22}^{-1} c_{22}^1 c_{53}^2 c_{55}^{-2} + 6\sqrt{5}c_{22}^{-1} c_{22}^1 c_{53}^1 c_{55}^{-1} - 10\sqrt{2}c_{22}^{-1} c_{22}^1 c_{53}^0 c_{55}^0$$
$$+6\sqrt{5}c_{22}^{-1} c_{22}^1 c_{53}^{-1}c_{55}^1 - 3\sqrt{14}c_{22}^{-1} c_{22}^1 c_{53}^{-2}c_{55}^2 + 2\sqrt{14}c_{22}^{-1} c_{22}^1 c_{53}^{-3}c_{55}^3 + \sqrt{14}c_{22}^{-1} c_{22}^0 c_{53}^3 c_{55}^{-2}$$
$$-4\sqrt{3}c_{22}^{-1} c_{22}^0 c_{53}^2 c_{55}^{-1} + 10c_{22}^{-1} c_{22}^0 c_{53}^1 c_{55}^0 - 4\sqrt{10}c_{22}^{-1} c_{22}^0 c_{53}^0 c_{55}^1 + \sqrt{210}c_{22}^{-1} c_{22}^0 c_{53}^{-1}c_{55}^2$$
$$-4\sqrt{14}c_{22}^{-1} c_{22}^0 c_{53}^{-2}c_{55}^3 + 2\sqrt{42}c_{22}^{-1} c_{22}^0 c_{53}^{-3}c_{55}^4 - \sqrt{3}(c_{22}^{-1})^2 c_{53}^3 c_{55}^{-1} + \sqrt{15}(c_{22}^{-1})^2 c_{53}^2 c_{55}^0$$
$$-3\sqrt{5}(c_{22}^{-1})^2 c_{53}^1 c_{55}^1 + \sqrt{105}(c_{22}^{-1})^2 c_{53}^0 c_{55}^2 - \sqrt{210}(c_{22}^{-1})^2 c_{53}^{-1}c_{55}^3 + 3\sqrt{42}(c_{22}^{-1})^2 c_{53}^{-2}c_{55}^4$$
$$-3\sqrt{70}(c_{22}^{-1})^2 c_{53}^{-3}c_{55}^5 + 4\sqrt{14}c_{22}^{-2} c_{22}^2 c_{53}^3 c_{55}^{-3} - 6\sqrt{14}c_{22}^{-2} c_{22}^2 c_{53}^2 c_{55}^{-2} + 12\sqrt{5}c_{22}^{-2} c_{22}^2 c_{53}^1 c_{55}^{-1}$$
$$-20\sqrt{2}c_{22}^{-2} c_{22}^2 c_{53}^0 c_{55}^0 + 12\sqrt{5}c_{22}^{-2} c_{22}^2 c_{53}^{-1}c_{55}^1 - 6\sqrt{14}c_{22}^{-2} c_{22}^2 c_{53}^{-2}c_{55}^2$$
$$+4\sqrt{14}c_{22}^{-2} c_{22}^2 c_{53}^{-3}c_{55}^3 - 2\sqrt{21}c_{22}^{-2} c_{22}^1 c_{53}^3 c_{55}^{-2} + 12\sqrt{2}c_{22}^{-2} c_{22}^1 c_{53}^2 c_{55}^{-1}$$
$$-10\sqrt{6}c_{22}^{-2} c_{22}^1 c_{53}^1 c_{55}^0 + 8\sqrt{15}c_{22}^{-2} c_{22}^1 c_{53}^0 c_{55}^1 - 6\sqrt{35}c_{22}^{-2} c_{22}^1 c_{53}^{-1}c_{55}^2$$
$$+8\sqrt{21}c_{22}^{-2} c_{22}^1 c_{53}^{-2}c_{55}^3 - 12\sqrt{7}c_{22}^{-2} c_{22}^1 c_{53}^{-3}c_{55}^4 + 2\sqrt{2}c_{22}^{-2} c_{22}^0 c_{53}^3 c_{55}^{-1} - 2\sqrt{10}c_{22}^{-2} c_{22}^0 c_{53}^2 c_{55}^0$$
$$+2\sqrt{30}c_{22}^{-2} c_{22}^0 c_{53}^1 c_{55}^1 - 2\sqrt{70}c_{22}^{-2} c_{22}^0 c_{53}^0 c_{55}^2 + 4\sqrt{35}c_{22}^{-2} c_{22}^0 c_{53}^{-1}c_{55}^3$$
$$-12\sqrt{7}c_{22}^{-2} c_{22}^0 c_{53}^{-2}c_{55}^4 + 4\sqrt{105}c_{22}^{-2} c_{22}^0 c_{53}^{-3}c_{55}^5)/(c_{00}^0)^{26/3}$$

$$\Phi_{58} = c_5(3,3)_2 c_2(2,2)_2 = \frac{1}{7}\sqrt{\frac{2}{15}}(-3(c_{22}^1)^2(c_{53}^{-1})^2 + \sqrt{30}(c_{22}^1)^2 c_{53}^{-2} c_{53}^0 - \sqrt{15}(c_{22}^1)^2 c_{53}^{-3} c_{53}^1$$

$$+2\sqrt{6}c_{22}^0 c_{22}^2(c_{53}^{-1})^2 - 4\sqrt{5}c_{22}^0 c_{22}^2 c_{53}^{-2} c_{53}^0 + 2\sqrt{10}c_{22}^0 c_{22}^2 c_{53}^{-3} c_{53}^1 + \sqrt{2}c_{22}^0 c_{22}^1 c_{53}^{-1} c_{53}^0$$

$$-\sqrt{15}c_{22}^0 c_{22}^1 c_{53}^{-2} c_{53}^1 + 5c_{22}^0 c_{22}^1 c_{53}^{-3} c_{53}^2 - 2(c_{22}^0)^2(c_{53}^0)^2 + 3(c_{22}^0)^2 c_{53}^{-1} c_{53}^1$$

$$-5(c_{22}^0)^2 c_{53}^{-3} c_{53}^3 - 2\sqrt{3}c_{22}^{-1} c_{22}^2 c_{53}^{-1} c_{53}^0 + 3\sqrt{10}c_{22}^{-1} c_{22}^2 c_{53}^{-2} c_{53}^1 - 5\sqrt{6}c_{22}^{-1} c_{22}^2 c_{53}^{-3} c_{53}^2$$

$$+2c_{22}^{-1} c_{22}^1(c_{53}^0)^2 - 3c_{22}^{-1} c_{22}^1 c_{53}^{-3} c_{53}^1 + 5c_{22}^{-1} c_{22}^1 c_{53}^{-3} c_{53}^3 + \sqrt{2}c_{22}^{-1} c_{22}^0 c_{53}^0 c_{53}^1$$

$$-\sqrt{15}c_{22}^{-1} c_{22}^0 c_{53}^{-1} c_{53}^2 + 5c_{22}^{-1} c_{22}^0 c_{53}^{-2} c_{53}^3 - 3(c_{22}^{-1})^2(c_{53}^1)^2 + \sqrt{30}(c_{22}^{-1})^2 c_{53}^0 c_{53}^2$$

$$-\sqrt{15}(c_{22}^{-1})^2 c_{53}^{-1} c_{53}^3 + 4c_{22}^{-2} c_{22}^2(c_{53}^0)^2 - 6c_{22}^{-2} c_{22}^2 c_{53}^{-1} c_{53}^1 + 10c_{22}^{-2} c_{22}^2 c_{53}^{-3} c_{53}^3$$

$$-2\sqrt{3}c_{22}^{-2} c_{22}^1 c_{53}^0 c_{53}^1 + 3\sqrt{10}c_{22}^{-2} c_{22}^1 c_{53}^{-1} c_{53}^2 - 5\sqrt{6}c_{22}^{-2} c_{22}^1 c_{53}^{-2} c_{53}^3 + 2\sqrt{6}c_{22}^{-2} c_{22}^0(c_{53}^1)^2$$

$$-4\sqrt{5}c_{22}^{-2} c_{22}^0 c_{53}^0 c_{53}^2 + 2\sqrt{10}c_{22}^{-2} c_{22}^0 c_{53}^{-1} c_{53}^3)/(c_{00}^0)^{26/3}$$

$$\Phi_{59} = c_5(5,5)_2 c_3(3,3)_2 = \frac{1}{3}\sqrt{\frac{2}{5005}}(15(c_{33}^1)^2(c_{55}^{-1})^2 - 2\sqrt{210}(c_{33}^1)^2 c_{55}^{-2} c_{55}^0 + 4\sqrt{42}(c_{33}^1)^2 c_{55}^{-3} c_{55}^1$$

$$-12\sqrt{3}(c_{33}^1)^2 c_{55}^{-4} c_{55}^2 + 6\sqrt{5}(c_{33}^1)^2 c_{55}^{-5} c_{55}^3 - 5\sqrt{30}c_{33}^0 c_{33}^2(c_{55}^{-1})^2 + 20\sqrt{7}c_{33}^0 c_{33}^2 c_{55}^{-2} c_{55}^0$$

$$-8\sqrt{35}c_{33}^0 c_{33}^2 c_{55}^{-3} c_{55}^1 + 12\sqrt{10}c_{33}^0 c_{33}^2 c_{55}^{-4} c_{55}^2 - 10\sqrt{6}c_{33}^0 c_{33}^2 c_{55}^{-5} c_{55}^3$$

$$-\sqrt{10}c_{33}^0 c_{33}^1 c_{55}^{-1} c_{55}^0 + 2\sqrt{21}c_{33}^0 c_{33}^1 c_{55}^{-2} c_{55}^1 - 10\sqrt{2}c_{33}^0 c_{33}^1 c_{55}^{-3} c_{55}^2 + 7\sqrt{6}c_{33}^0 c_{33}^1 c_{55}^{-4} c_{55}^3$$

$$-3\sqrt{30}c_{33}^0 c_{33}^1 c_{55}^{-5} c_{55}^4 + 10(c_{33}^0)^2(c_{55}^0)^2 - 18(c_{33}^0)^2 c_{55}^{-1} c_{55}^1 + 12(c_{33}^0)^2 c_{55}^{-2} c_{55}^2$$

$$-2(c_{33}^0)^2 c_{55}^{-3} c_{55}^3 - 12(c_{33}^0)^2 c_{55}^{-4} c_{55}^4 + 30(c_{33}^0)^2 c_{55}^{-5} c_{55}^5 + 5\sqrt{15}c_{33}^{-1} c_{33}^3(c_{55}^{-1})^2$$

$$-10\sqrt{14}c_{33}^{-1} c_{33}^3 c_{55}^{-2} c_{55}^0 + 4\sqrt{70}c_{33}^{-1} c_{33}^3 c_{55}^{-3} c_{55}^1 - 12\sqrt{5}c_{33}^{-1} c_{33}^3 c_{55}^{-4} c_{55}^2$$

$$+10\sqrt{3}c_{33}^{-1} c_{33}^3 c_{55}^{-5} c_{55}^3 + 5\sqrt{3}c_{33}^{-1} c_{33}^2 c_{55}^{-1} c_{55}^0 - 3\sqrt{70}c_{33}^{-1} c_{33}^2 c_{55}^{-2} c_{55}^1$$

$$+10\sqrt{15}c_{33}^{-1} c_{33}^2 c_{55}^{-3} c_{55}^2 - 21\sqrt{5}c_{33}^{-1} c_{33}^2 c_{55}^{-4} c_{55}^3 + 45c_{33}^{-1} c_{33}^2 c_{55}^{-5} c_{55}^4 - 15c_{33}^{-1} c_{33}^1(c_{55}^0)^2$$

$$+27c_{33}^{-1} c_{33}^1 c_{55}^{-1} c_{55}^1 - 18c_{33}^{-1} c_{33}^1 c_{55}^{-2} c_{55}^2 + 3c_{33}^{-1} c_{33}^1 c_{55}^{-3} c_{55}^3 + 18c_{33}^{-1} c_{33}^1 c_{55}^{-4} c_{55}^4$$

$$-45c_{33}^{-1} c_{33}^1 c_{55}^{-5} c_{55}^5 - \sqrt{10}c_{33}^{-1} c_{33}^0 c_{55}^0 c_{55}^1 + 2\sqrt{21}c_{33}^{-1} c_{33}^0 c_{55}^{-1} c_{55}^2 - 10\sqrt{2}c_{33}^{-1} c_{33}^0 c_{55}^{-2} c_{55}^3$$

$$+7\sqrt{6}c_{33}^{-1} c_{33}^0 c_{55}^{-3} c_{55}^4 - 3\sqrt{30}c_{33}^{-1} c_{33}^0 c_{55}^{-4} c_{55}^5 + 15(c_{33}^{-1})^2(c_{55}^1)^2 - 2\sqrt{210}(c_{33}^{-1})^2 c_{55}^0 c_{55}^2$$

$$+4\sqrt{42}(c_{33}^{-1})^2 c_{55}^{-1} c_{55}^3 - 12\sqrt{3}(c_{33}^{-1})^2 c_{55}^{-2} c_{55}^4 + 6\sqrt{5}(c_{33}^{-1})^2 c_{55}^{-3} c_{55}^5 - 5\sqrt{5}c_{33}^{-2} c_{33}^3 c_{55}^{-1} c_{55}^0$$

$$+5\sqrt{42}c_{33}^{-2} c_{33}^3 c_{55}^{-2} c_{55}^1 - 50c_{33}^{-2} c_{33}^3 c_{55}^{-3} c_{55}^2 + 35\sqrt{3}c_{33}^{-2} c_{33}^3 c_{55}^{-4} c_{55}^3 - 15\sqrt{15}c_{33}^{-2} c_{33}^3 c_{55}^{-5} c_{55}^4$$

$$+5\sqrt{3}c_{33}^{-2} c_{33}^1 c_{55}^0 c_{55}^1 - 3\sqrt{70}c_{33}^{-2} c_{33}^1 c_{55}^{-1} c_{55}^2 + 10\sqrt{15}c_{33}^{-2} c_{33}^1 c_{55}^{-2} c_{55}^3$$

$$-21\sqrt{5}c_{33}^{-2} c_{33}^1 c_{55}^{-3} c_{55}^4 + 45c_{33}^{-2} c_{33}^1 c_{55}^{-4} c_{55}^5 - 5\sqrt{30}c_{33}^{-2} c_{33}^0(c_{55}^1)^2 + 20\sqrt{7}c_{33}^{-2} c_{33}^0 c_{55}^0 c_{55}^2$$

$$-8\sqrt{35}c_{33}^{-2} c_{33}^0 c_{55}^{-1} c_{55}^3 + 12\sqrt{10}c_{33}^{-2} c_{33}^0 c_{55}^{-2} c_{55}^4 - 10\sqrt{6}c_{33}^{-2} c_{33}^0 c_{55}^{-3} c_{55}^5 + 25c_{33}^{-3} c_{33}^3(c_{55}^0)^2$$

$$-45c_{33}^{-3} c_{33}^3 c_{55}^{-1} c_{55}^1 + 30c_{33}^{-3} c_{33}^3 c_{55}^{-2} c_{55}^2 - 5c_{33}^{-3} c_{33}^3 c_{55}^{-3} c_{55}^3 - 30c_{33}^{-3} c_{33}^3 c_{55}^{-4} c_{55}^4$$

$$+75c_{33}^{-3} c_{33}^3 c_{55}^{-5} c_{55}^5 - 5\sqrt{5}c_{33}^{-3} c_{33}^2 c_{55}^0 c_{55}^1 + 5\sqrt{42}c_{33}^{-3} c_{33}^2 c_{55}^{-1} c_{55}^2 - 50c_{33}^{-3} c_{33}^2 c_{55}^{-2} c_{55}^3$$

$$+35\sqrt{3}c_{33}^{-3} c_{33}^2 c_{55}^{-3} c_{55}^4 - 15\sqrt{15}c_{33}^{-3} c_{33}^2 c_{55}^{-4} c_{55}^5 + 5\sqrt{15}c_{33}^{-3} c_{33}^1(c_{55}^1)^2$$

$$-10\sqrt{14}c_{33}^{-3} c_{33}^1 c_{55}^0 c_{55}^2 + 4\sqrt{70}c_{33}^{-3} c_{33}^1 c_{55}^{-1} c_{55}^3 - 12\sqrt{5}c_{33}^{-3} c_{33}^1 c_{55}^{-2} c_{55}^4$$

$$+10\sqrt{3}c_{33}^{-3} c_{33}^1 c_{55}^{-3} c_{55}^5)/(c_{00}^0)^{28/3}$$

$$\Phi_{60} = c_5(5,5)_2 c_3(3,1)_2 = \frac{1}{3}\sqrt{\frac{1}{5005}}(5\sqrt{3}c_{31}^1 c_{33}^1 (c_{55}^{-1})^2 - 2\sqrt{70}c_{31}^1 c_{33}^1 c_{55}^{-2} c_{55}^0$$

$$+4\sqrt{14}c_{31}^1 c_{33}^1 c_{55}^{-3} c_{55}^1 - 12c_{31}^1 c_{33}^1 c_{55}^{-4} c_{55}^2 + 2\sqrt{15}c_{31}^1 c_{33}^1 c_{55}^{-5} c_{55}^3 - \sqrt{30}c_{31}^1 c_{33}^0 c_{55}^{-1} c_{55}^0$$

$$+6\sqrt{7}c_{31}^1 c_{33}^0 c_{55}^{-2} c_{55}^1 - 10\sqrt{6}c_{31}^1 c_{33}^0 c_{55}^{-3} c_{55}^2 + 21\sqrt{2}c_{31}^1 c_{33}^0 c_{55}^{-4} c_{55}^3 - 9\sqrt{10}c_{31}^1 c_{33}^0 c_{55}^{-5} c_{55}^4$$

$$+10\sqrt{3}c_{31}^1 c_{33}^{-1} (c_{55}^0)^2 - 18\sqrt{3}c_{31}^1 c_{33}^{-1} c_{55}^{-1} c_{55}^1 + 12\sqrt{3}c_{31}^1 c_{33}^{-1} c_{55}^{-2} c_{55}^2 - 2\sqrt{3}c_{31}^1 c_{33}^{-1} c_{55}^{-3} c_{55}^3$$

$$-12\sqrt{3}c_{31}^1 c_{33}^{-1} c_{55}^{-4} c_{55}^4 + 30\sqrt{3}c_{31}^1 c_{33}^{-1} c_{55}^{-5} c_{55}^5 - 10c_{31}^1 c_{33}^{-2} c_{55}^0 c_{55}^1 + 2\sqrt{210}c_{31}^1 c_{33}^{-2} c_{55}^{-1} c_{55}^2$$

$$-20\sqrt{5}c_{31}^1 c_{33}^{-2} c_{55}^{-2} c_{55}^3 + 14\sqrt{15}c_{31}^1 c_{33}^{-2} c_{55}^{-3} c_{55}^4 - 30\sqrt{3}c_{31}^1 c_{33}^{-2} c_{55}^{-4} c_{55}^5$$

$$+15\sqrt{5}c_{31}^1 c_{33}^{-3} (c_{55}^1)^2 - 10\sqrt{42}c_{31}^1 c_{33}^{-3} c_{55}^0 c_{55}^2 + 4\sqrt{210}c_{31}^1 c_{33}^{-3} c_{55}^{-1} c_{55}^3$$

$$-12\sqrt{15}c_{31}^1 c_{33}^{-3} c_{55}^{-2} c_{55}^4 + 30c_{31}^1 c_{33}^{-3} c_{55}^{-3} c_{55}^5 - 5\sqrt{15}c_{31}^0 c_{33}^2 (c_{55}^{-1})^2 + 10\sqrt{14}c_{31}^0 c_{33}^2 c_{55}^{-2} c_{55}^0$$

$$-4\sqrt{70}c_{31}^0 c_{33}^2 c_{55}^{-3} c_{55}^1 + 12\sqrt{5}c_{31}^0 c_{33}^2 c_{55}^{-4} c_{55}^2 - 10\sqrt{3}c_{31}^0 c_{33}^2 c_{55}^{-5} c_{55}^3 + 4\sqrt{5}c_{31}^0 c_{33}^1 c_{55}^{-1} c_{55}^0$$

$$-4\sqrt{42}c_{31}^0 c_{33}^1 c_{55}^{-2} c_{55}^1 + 40c_{31}^0 c_{33}^1 c_{55}^{-3} c_{55}^2 - 28\sqrt{3}c_{31}^0 c_{33}^1 c_{55}^{-4} c_{55}^3 + 12\sqrt{15}c_{31}^0 c_{33}^1 c_{55}^{-5} c_{55}^4$$

$$-15\sqrt{2}c_{31}^0 c_{33}^0 (c_{55}^0)^2 + 27\sqrt{2}c_{31}^0 c_{33}^0 c_{55}^{-1} c_{55}^1 - 18\sqrt{2}c_{31}^0 c_{33}^0 c_{55}^{-2} c_{55}^2 + 3\sqrt{2}c_{31}^0 c_{33}^0 c_{55}^{-3} c_{55}^3$$

$$+18\sqrt{2}c_{31}^0 c_{33}^0 c_{55}^{-4} c_{55}^4 - 45\sqrt{2}c_{31}^0 c_{33}^0 c_{55}^{-5} c_{55}^5 + 4\sqrt{5}c_{31}^0 c_{33}^{-1} c_{55}^0 c_{55}^1 - 4\sqrt{42}c_{31}^0 c_{33}^{-1} c_{55}^{-1} c_{55}^2$$

$$+40c_{31}^0 c_{33}^{-1} c_{55}^{-2} c_{55}^3 - 28\sqrt{3}c_{31}^0 c_{33}^{-1} c_{55}^{-3} c_{55}^4 + 12\sqrt{15}c_{31}^0 c_{33}^{-1} c_{55}^{-4} c_{55}^5 - 5\sqrt{15}c_{31}^0 c_{33}^{-2} (c_{55}^1)^2$$

$$+10\sqrt{14}c_{31}^0 c_{33}^{-2} c_{55}^0 c_{55}^2 - 4\sqrt{70}c_{31}^0 c_{33}^{-2} c_{55}^{-1} c_{55}^3 + 12\sqrt{5}c_{31}^0 c_{33}^{-2} c_{55}^{-2} c_{55}^4$$

$$-10\sqrt{3}c_{31}^0 c_{33}^{-2} c_{55}^{-3} c_{55}^5 + 15\sqrt{5}c_{31}^{-1} c_{33}^3 (c_{55}^{-1})^2 - 10\sqrt{42}c_{31}^{-1} c_{33}^3 c_{55}^{-2} c_{55}^0$$

$$+4\sqrt{210}c_{31}^{-1} c_{33}^3 c_{55}^{-3} c_{55}^1 - 12\sqrt{15}c_{31}^{-1} c_{33}^3 c_{55}^{-4} c_{55}^2 + 30c_{31}^{-1} c_{33}^3 c_{55}^{-5} c_{55}^3 - 10c_{31}^{-1} c_{33}^2 c_{55}^{-1} c_{55}^0$$

$$+2\sqrt{210}c_{31}^{-1} c_{33}^2 c_{55}^{-2} c_{55}^1 - 20\sqrt{5}c_{31}^{-1} c_{33}^2 c_{55}^{-3} c_{55}^2 + 14\sqrt{15}c_{31}^{-1} c_{33}^2 c_{55}^{-4} c_{55}^3$$

$$-30\sqrt{3}c_{31}^{-1} c_{33}^2 c_{55}^{-5} c_{55}^4 + 10\sqrt{3}c_{31}^{-1} c_{33}^1 (c_{55}^0)^2 - 18\sqrt{3}c_{31}^{-1} c_{33}^1 c_{55}^{-1} c_{55}^1 + 12\sqrt{3}c_{31}^{-1} c_{33}^1 c_{55}^{-2} c_{55}^2$$

$$-2\sqrt{3}c_{31}^{-1} c_{33}^1 c_{55}^{-3} c_{55}^3 - 12\sqrt{3}c_{31}^{-1} c_{33}^1 c_{55}^{-4} c_{55}^4 + 30\sqrt{3}c_{31}^{-1} c_{33}^1 c_{55}^{-5} c_{55}^5 - \sqrt{30}c_{31}^{-1} c_{33}^0 c_{55}^0 c_{55}^1$$

$$+6\sqrt{7}c_{31}^{-1} c_{33}^0 c_{55}^{-1} c_{55}^2 - 10\sqrt{6}c_{31}^{-1} c_{33}^0 c_{55}^{-2} c_{55}^3 + 21\sqrt{2}c_{31}^{-1} c_{33}^0 c_{55}^{-3} c_{55}^4 - 9\sqrt{10}c_{31}^{-1} c_{33}^0 c_{55}^{-4} c_{55}^5$$

$$+5\sqrt{3}c_{31}^{-1} c_{33}^{-1} (c_{55}^1)^2 - 2\sqrt{70}c_{31}^{-1} c_{33}^{-1} c_{55}^0 c_{55}^2 + 4\sqrt{14}c_{31}^{-1} c_{33}^{-1} c_{55}^{-1} c_{55}^3 - 12c_{31}^{-1} c_{33}^{-1} c_{55}^{-2} c_{55}^4$$

$$+2\sqrt{15}c_{31}^{-1} c_{33}^{-1} c_{55}^{-3} c_{55}^5)/(c_{00}^0)^{28/3}$$

$$\Phi_{61} = c_5(5,5)_2 c_3(1,1)_2 = \frac{1}{3}\sqrt{\frac{1}{715}}(15(c_{31}^1)^2 (c_{55}^{-1})^2 - 2\sqrt{210}(c_{31}^1)^2 c_{55}^{-2} c_{55}^0 + 4\sqrt{42}(c_{31}^1)^2 c_{55}^{-3} c_{55}^1$$

$$-12\sqrt{3}(c_{31}^1)^2 c_{55}^{-4} c_{55}^2 + 6\sqrt{5}(c_{31}^1)^2 c_{55}^{-5} c_{55}^3 - 2\sqrt{15}c_{31}^0 c_{31}^1 c_{55}^{-1} c_{55}^0 + 6\sqrt{14}c_{31}^0 c_{31}^1 c_{55}^{-2} c_{55}^1$$

$$-20\sqrt{3}c_{31}^0 c_{31}^1 c_{55}^{-3} c_{55}^2 + 42c_{31}^0 c_{31}^1 c_{55}^{-4} c_{55}^3 - 18\sqrt{5}c_{31}^0 c_{31}^1 c_{55}^{-5} c_{55}^4 + 10(c_{31}^0)^2 (c_{55}^0)^2$$

$$-18(c_{31}^0)^2 c_{55}^{-1} c_{55}^1 + 12(c_{31}^0)^2 c_{55}^{-2} c_{55}^2 - 2(c_{31}^0)^2 c_{55}^{-3} c_{55}^3 - 12(c_{31}^0)^2 c_{55}^{-4} c_{55}^4$$

$$+30(c_{31}^0)^2 c_{55}^{-5} c_{55}^5 + 10c_{31}^{-1} c_{31}^1 (c_{55}^0)^2 - 18c_{31}^{-1} c_{31}^1 c_{55}^{-1} c_{55}^1 + 12c_{31}^{-1} c_{31}^1 c_{55}^{-2} c_{55}^2$$

$$-2c_{31}^{-1} c_{31}^1 c_{55}^{-3} c_{55}^3 - 12c_{31}^{-1} c_{31}^1 c_{55}^{-4} c_{55}^4 + 30c_{31}^{-1} c_{31}^1 c_{55}^{-5} c_{55}^5 - 2\sqrt{15}c_{31}^{-1} c_{31}^0 c_{55}^0 c_{55}^1$$

$$+6\sqrt{14}c_{31}^{-1} c_{31}^0 c_{55}^{-1} c_{55}^2 - 20\sqrt{3}c_{31}^{-1} c_{31}^0 c_{55}^{-2} c_{55}^3 + 42c_{31}^{-1} c_{31}^0 c_{55}^{-3} c_{55}^4 - 18\sqrt{5}c_{31}^{-1} c_{31}^0 c_{55}^{-4} c_{55}^5$$

$$+15(c_{31}^{-1})^2 (c_{55}^1)^2 - 2\sqrt{210}(c_{31}^{-1})^2 c_{55}^0 c_{55}^2 + 4\sqrt{42}(c_{31}^{-1})^2 c_{55}^{-1} c_{55}^3 - 12\sqrt{3}(c_{31}^{-1})^2 c_{55}^{-2} c_{55}^4$$

$$+6\sqrt{5}(c_{31}^{-1})^2 c_{55}^{-3} c_{55}^5)/(c_{00}^0)^{28/3}$$

$$\begin{aligned}
\Phi_{62} &= c_5(5,3)_2 c_3(3,3)_2 = \frac{1}{21}\sqrt{\frac{1}{110}}(6\sqrt{35}(c_{33}^1)^2 c_{53}^3 c_{55}^{-5} - 6\sqrt{21}(c_{33}^1)^2 c_{53}^2 c_{55}^{-4} \\
&\quad +2\sqrt{105}(c_{33}^1)^2 c_{53}^1 c_{55}^{-3} - \sqrt{210}(c_{33}^1)^2 c_{53}^0 c_{55}^{-2} + 3\sqrt{10}(c_{33}^1)^2 c_{53}^{-1} c_{55}^{-1} - \sqrt{30}(c_{33}^1)^2 c_{53}^{-2} c_{55}^0 \\
&\quad +\sqrt{6}(c_{33}^1)^2 c_{53}^{-3} c_{55}^1 - 10\sqrt{42}c_{33}^0 c_{33}^2 c_{53}^3 c_{55}^{-5} + 6\sqrt{70}c_{33}^0 c_{33}^2 c_{53}^2 c_{55}^{-4} - 10\sqrt{14}c_{33}^0 c_{33}^2 c_{53}^1 c_{55}^{-3} \\
&\quad +10\sqrt{7}c_{33}^0 c_{33}^2 c_{53}^0 c_{55}^{-2} - 10\sqrt{3}c_{33}^0 c_{33}^2 c_{53}^{-1} c_{55}^{-1} + 10c_{33}^0 c_{33}^2 c_{53}^{-2} c_{55}^0 - 2\sqrt{5}c_{33}^0 c_{33}^2 c_{53}^{-3} c_{55}^1 \\
&\quad -2\sqrt{42}c_{33}^0 c_{33}^1 c_{53}^3 c_{55}^{-4} + 4\sqrt{14}c_{33}^0 c_{33}^1 c_{53}^2 c_{55}^{-3} - \sqrt{210}c_{33}^0 c_{33}^1 c_{53}^1 c_{55}^{-2} \\
&\quad +4\sqrt{10}c_{33}^0 c_{33}^1 c_{53}^0 c_{55}^{-1} - 10c_{33}^0 c_{33}^1 c_{53}^{-1} c_{55}^0 + 4\sqrt{3}c_{33}^0 c_{33}^1 c_{53}^{-2} c_{55}^1 - \sqrt{14}c_{33}^0 c_{33}^1 c_{53}^{-3} c_{55}^2 \\
&\quad +4\sqrt{7}(c_{33}^0)^2 c_{53}^3 c_{55}^{-3} - 6\sqrt{7}(c_{33}^0)^2 c_{53}^2 c_{55}^{-2} + 6\sqrt{10}(c_{33}^0)^2 c_{53}^1 c_{55}^{-1} - 20(c_{33}^0)^2 c_{53}^0 c_{55}^0 \\
&\quad +6\sqrt{10}(c_{33}^0)^2 c_{53}^{-1} c_{55}^1 - 6\sqrt{7}(c_{33}^0)^2 c_{53}^{-2} c_{55}^2 + 4\sqrt{7}(c_{33}^0)^2 c_{53}^{-3} c_{55}^3 + 10\sqrt{21}c_{33}^{-1} c_{33}^3 c_{53}^3 c_{55}^{-5} \\
&\quad -6\sqrt{35}c_{33}^{-1} c_{33}^3 c_{53}^2 c_{55}^{-4} + 10\sqrt{7}c_{33}^{-1} c_{33}^3 c_{53}^1 c_{55}^{-3} - 5\sqrt{14}c_{33}^{-1} c_{33}^3 c_{53}^0 c_{55}^{-2} + 5\sqrt{6}c_{33}^{-1} c_{33}^3 c_{53}^{-1} c_{55}^{-1} \\
&\quad -5\sqrt{2}c_{33}^{-1} c_{33}^3 c_{53}^{-2} c_{55}^0 + \sqrt{10}c_{33}^{-1} c_{33}^3 c_{53}^{-3} c_{55}^1 + 6\sqrt{35}c_{33}^{-1} c_{33}^2 c_{53}^3 c_{55}^{-4} - 4\sqrt{105}c_{33}^{-1} c_{33}^2 c_{53}^2 c_{55}^{-3} \\
&\quad +15\sqrt{7}c_{33}^{-1} c_{33}^2 c_{53}^1 c_{55}^{-2} - 20\sqrt{3}c_{33}^{-1} c_{33}^2 c_{53}^0 c_{55}^{-1} + 5\sqrt{30}c_{33}^{-1} c_{33}^2 c_{53}^{-1} c_{55}^0 \\
&\quad -6\sqrt{10}c_{33}^{-1} c_{33}^2 c_{53}^{-2} c_{55}^1 + \sqrt{105}c_{33}^{-1} c_{33}^2 c_{53}^{-3} c_{55}^2 - 6\sqrt{7}c_{33}^{-1} c_{33}^1 c_{53}^3 c_{55}^{-3} + 9\sqrt{7}c_{33}^{-1} c_{33}^1 c_{53}^2 c_{55}^{-2} \\
&\quad -9\sqrt{10}c_{33}^{-1} c_{33}^1 c_{53}^1 c_{55}^{-1} + 30c_{33}^{-1} c_{33}^1 c_{53}^0 c_{55}^0 - 9\sqrt{10}c_{33}^{-1} c_{33}^1 c_{53}^{-1} c_{55}^1 + 9\sqrt{7}c_{33}^{-1} c_{33}^1 c_{53}^{-2} c_{55}^2 \\
&\quad -6\sqrt{7}c_{33}^{-1} c_{33}^1 c_{53}^{-3} c_{55}^3 - \sqrt{14}c_{33}^{-1} c_{33}^0 c_{53}^3 c_{55}^{-2} + 4\sqrt{3}c_{33}^{-1} c_{33}^0 c_{53}^2 c_{55}^{-1} - 10c_{33}^{-1} c_{33}^0 c_{53}^1 c_{55}^0 \\
&\quad +4\sqrt{10}c_{33}^{-1} c_{33}^0 c_{53}^0 c_{55}^1 - \sqrt{210}c_{33}^{-1} c_{33}^0 c_{53}^{-1} c_{55}^2 + 4\sqrt{14}c_{33}^{-1} c_{33}^0 c_{53}^{-2} c_{55}^3 \\
&\quad -2\sqrt{42}c_{33}^{-1} c_{33}^0 c_{53}^{-3} c_{55}^4 + \sqrt{6}(c_{33}^{-1})^2 c_{53}^3 c_{55}^{-1} - \sqrt{30}(c_{33}^{-1})^2 c_{53}^2 c_{55}^0 + 3\sqrt{10}(c_{33}^{-1})^2 c_{53}^1 c_{55}^1 \\
&\quad -\sqrt{210}(c_{33}^{-1})^2 c_{53}^0 c_{55}^2 + 2\sqrt{105}(c_{33}^{-1})^2 c_{53}^{-1} c_{55}^3 - 6\sqrt{21}(c_{33}^{-1})^2 c_{53}^{-2} c_{55}^4 + 6\sqrt{35}(c_{33}^{-1})^2 c_{53}^{-3} c_{55}^5 \\
&\quad -10\sqrt{21}c_{33}^{-2} c_{33}^3 c_{53}^3 c_{55}^{-4} + 20\sqrt{7}c_{33}^{-2} c_{33}^3 c_{53}^2 c_{55}^{-3} - 5\sqrt{105}c_{33}^{-2} c_{33}^3 c_{53}^1 c_{55}^{-2} \\
&\quad +20\sqrt{5}c_{33}^{-2} c_{33}^3 c_{53}^0 c_{55}^{-1} - 25\sqrt{2}c_{33}^{-2} c_{33}^3 c_{53}^{-1} c_{55}^0 + 10\sqrt{6}c_{33}^{-2} c_{33}^3 c_{53}^{-2} c_{55}^1 - 5\sqrt{7}c_{33}^{-2} c_{33}^3 c_{53}^{-3} c_{55}^2 \\
&\quad +\sqrt{105}c_{33}^{-2} c_{33}^1 c_{53}^3 c_{55}^{-2} - 6\sqrt{10}c_{33}^{-2} c_{33}^1 c_{53}^2 c_{55}^{-1} + 5\sqrt{30}c_{33}^{-2} c_{33}^1 c_{53}^1 c_{55}^0 \\
&\quad -20\sqrt{3}c_{33}^{-2} c_{33}^1 c_{53}^0 c_{55}^1 + 15\sqrt{7}c_{33}^{-2} c_{33}^1 c_{53}^{-1} c_{55}^2 - 4\sqrt{105}c_{33}^{-2} c_{33}^1 c_{53}^{-2} c_{55}^3 \\
&\quad +6\sqrt{35}c_{33}^{-2} c_{33}^1 c_{53}^{-3} c_{55}^4 - 2\sqrt{5}c_{33}^{-2} c_{33}^0 c_{53}^3 c_{55}^{-1} + 10c_{33}^{-2} c_{33}^0 c_{53}^2 c_{55}^0 - 10\sqrt{3}c_{33}^{-2} c_{33}^0 c_{53}^1 c_{55}^1 \\
&\quad +10\sqrt{7}c_{33}^{-2} c_{33}^0 c_{53}^0 c_{55}^2 - 10\sqrt{14}c_{33}^{-2} c_{33}^0 c_{53}^{-1} c_{55}^3 + 6\sqrt{70}c_{33}^{-2} c_{33}^0 c_{53}^{-2} c_{55}^4 \\
&\quad -10\sqrt{42}c_{33}^{-2} c_{33}^0 c_{53}^{-3} c_{55}^5 + 10\sqrt{7}c_{33}^{-3} c_{33}^3 c_{53}^3 c_{55}^{-3} - 15\sqrt{7}c_{33}^{-3} c_{33}^3 c_{53}^2 c_{55}^{-2} \\
&\quad +15\sqrt{10}c_{33}^{-3} c_{33}^3 c_{53}^1 c_{55}^{-1} - 50c_{33}^{-3} c_{33}^3 c_{53}^0 c_{55}^0 + 15\sqrt{10}c_{33}^{-3} c_{33}^3 c_{53}^{-1} c_{55}^1 \\
&\quad -15\sqrt{7}c_{33}^{-3} c_{33}^3 c_{53}^{-2} c_{55}^2 + 10\sqrt{7}c_{33}^{-3} c_{33}^3 c_{53}^{-3} c_{55}^3 - 5\sqrt{7}c_{33}^{-3} c_{33}^2 c_{53}^3 c_{55}^{-2} + 10\sqrt{6}c_{33}^{-3} c_{33}^2 c_{53}^2 c_{55}^{-1} \\
&\quad -25\sqrt{2}c_{33}^{-3} c_{33}^2 c_{53}^1 c_{55}^0 + 20\sqrt{5}c_{33}^{-3} c_{33}^2 c_{53}^0 c_{55}^1 - 5\sqrt{105}c_{33}^{-3} c_{33}^2 c_{53}^{-1} c_{55}^2 \\
&\quad +20\sqrt{7}c_{33}^{-3} c_{33}^2 c_{53}^{-2} c_{55}^3 - 10\sqrt{21}c_{33}^{-3} c_{33}^2 c_{53}^{-3} c_{55}^4 + \sqrt{10}c_{33}^{-3} c_{33}^3 c_{53}^3 c_{55}^{-1} - 5\sqrt{2}c_{33}^{-3} c_{33}^1 c_{53}^2 c_{55}^0 \\
&\quad +5\sqrt{6}c_{33}^{-3} c_{33}^1 c_{53}^1 c_{55}^1 - 5\sqrt{14}c_{33}^{-3} c_{33}^1 c_{53}^0 c_{55}^2 + 10\sqrt{7}c_{33}^{-3} c_{33}^1 c_{53}^{-1} c_{55}^3 - 6\sqrt{35}c_{33}^{-3} c_{33}^1 c_{53}^{-2} c_{55}^4 \\
&\quad +10\sqrt{21}c_{33}^{-3} c_{33}^1 c_{53}^{-3} c_{55}^5)/(c_{00}^0)^{28/3}
\end{aligned}$$

$$
\begin{aligned}
\Phi_{63} \;=\;& c_5(5,3)_2 c_3(3,1)_2 = \frac{1}{21}\sqrt{\frac{1}{110}}(\sqrt{210}c_{31}^1 c_{33}^1 c_{53}^3 c_{55}^{-5} - 3\sqrt{14}c_{31}^1 c_{33}^1 c_{53}^2 c_{55}^{-4} \\
&+\sqrt{70}c_{31}^1 c_{33}^1 c_{53}^1 c_{55}^{-3} - \sqrt{35}c_{31}^1 c_{33}^1 c_{53}^0 c_{55}^{-2} + \sqrt{15}c_{31}^1 c_{33}^1 c_{53}^{-1} c_{55}^{-1} - \sqrt{5}c_{31}^1 c_{33}^1 c_{53}^{-2} c_{55}^0 \\
&+c_{31}^1 c_{33}^1 c_{53}^{-3} c_{55}^1 - 6\sqrt{7}c_{31}^1 c_{33}^0 c_{53}^3 c_{55}^{-4} + 4\sqrt{21}c_{31}^1 c_{33}^0 c_{53}^2 c_{55}^{-3} - 3\sqrt{35}c_{31}^1 c_{33}^0 c_{53}^1 c_{55}^{-2} \\
&+4\sqrt{15}c_{31}^1 c_{33}^0 c_{53}^0 c_{55}^{-1} - 5\sqrt{6}c_{31}^1 c_{33}^0 c_{53}^{-1} c_{55}^0 + 6\sqrt{2}c_{31}^1 c_{33}^0 c_{53}^{-2} c_{55}^1 - \sqrt{21}c_{31}^1 c_{33}^0 c_{53}^{-3} c_{55}^2 \\
&+2\sqrt{42}c_{31}^1 c_{33}^{-1} c_{53}^3 c_{55}^{-2} - 3\sqrt{42}c_{31}^1 c_{33}^{-1} c_{53}^2 c_{55}^{-2} + 6\sqrt{15}c_{31}^1 c_{33}^{-1} c_{53}^1 c_{55}^{-1} \\
&-10\sqrt{6}c_{31}^1 c_{33}^{-1} c_{53}^0 c_{55}^0 + 6\sqrt{15}c_{31}^1 c_{33}^{-1} c_{53}^{-1} c_{55}^1 - 3\sqrt{42}c_{31}^1 c_{33}^{-1} c_{53}^{-2} c_{55}^2 \\
&+2\sqrt{42}c_{31}^1 c_{33}^{-1} c_{53}^{-3} c_{55}^3 - \sqrt{70}c_{31}^1 c_{33}^{-2} c_{53}^3 c_{55}^{-2} + 4\sqrt{15}c_{31}^1 c_{33}^{-2} c_{53}^2 c_{55}^{-1} - 10\sqrt{5}c_{31}^1 c_{33}^{-2} c_{53}^1 c_{55}^0 \\
&+20\sqrt{2}c_{31}^1 c_{33}^{-2} c_{53}^0 c_{55}^1 - 5\sqrt{42}c_{31}^1 c_{33}^{-2} c_{53}^{-1} c_{55}^2 + 4\sqrt{70}c_{31}^1 c_{33}^{-2} c_{53}^{-2} c_{55}^3 \\
&-2\sqrt{210}c_{31}^1 c_{33}^{-2} c_{53}^{-3} c_{55}^4 + \sqrt{15}c_{31}^1 c_{33}^{-3} c_{53}^3 c_{55}^{-1} - 5\sqrt{3}c_{31}^1 c_{33}^{-3} c_{53}^2 c_{55}^0 + 15c_{31}^1 c_{33}^{-3} c_{53}^1 c_{55}^1 \\
&-5\sqrt{21}c_{31}^1 c_{33}^{-3} c_{53}^0 c_{55}^2 + 5\sqrt{42}c_{31}^1 c_{33}^{-3} c_{53}^{-1} c_{55}^3 - 3\sqrt{210}c_{31}^1 c_{33}^{-3} c_{53}^{-2} c_{55}^4 \\
&+15\sqrt{14}c_{31}^1 c_{33}^{-3} c_{53}^{-3} c_{55}^5 - 5\sqrt{42}c_{31}^0 c_{33}^2 c_{53}^3 c_{55}^{-5} + 3\sqrt{70}c_{31}^0 c_{33}^2 c_{53}^2 c_{55}^{-4} \\
&-5\sqrt{14}c_{31}^0 c_{33}^2 c_{53}^1 c_{55}^{-3} + 5\sqrt{7}c_{31}^0 c_{33}^2 c_{53}^0 c_{55}^{-2} - 5\sqrt{3}c_{31}^0 c_{33}^2 c_{53}^{-1} c_{55}^{-1} + 5c_{31}^0 c_{33}^2 c_{53}^{-2} c_{55}^0 \\
&-\sqrt{5}c_{31}^0 c_{33}^2 c_{53}^{-3} c_{55}^1 + 4\sqrt{42}c_{31}^0 c_{33}^1 c_{53}^3 c_{55}^{-4} - 8\sqrt{14}c_{31}^0 c_{33}^1 c_{53}^2 c_{55}^{-3} + 2\sqrt{210}c_{31}^0 c_{33}^1 c_{53}^1 c_{55}^{-2} \\
&-8\sqrt{10}c_{31}^0 c_{33}^1 c_{53}^0 c_{55}^{-1} + 20c_{31}^0 c_{33}^1 c_{53}^{-1} c_{55}^0 - 8\sqrt{3}c_{31}^0 c_{33}^1 c_{53}^{-2} c_{55}^1 + 2\sqrt{14}c_{31}^0 c_{33}^1 c_{53}^{-3} c_{55}^2 \\
&-6\sqrt{7}c_{31}^0 c_{33}^0 c_{53}^3 c_{55}^{-3} + 9\sqrt{7}c_{31}^0 c_{33}^0 c_{53}^2 c_{55}^{-2} - 9\sqrt{10}c_{31}^0 c_{33}^0 c_{53}^1 c_{55}^{-1} + 30c_{31}^0 c_{33}^0 c_{53}^0 c_{55}^0 \\
&-9\sqrt{10}c_{31}^0 c_{33}^0 c_{53}^{-1} c_{55}^1 + 9\sqrt{7}c_{31}^0 c_{33}^0 c_{53}^{-2} c_{55}^2 - 6\sqrt{7}c_{31}^0 c_{33}^0 c_{53}^{-3} c_{55}^3 + 2\sqrt{14}c_{31}^0 c_{33}^{-1} c_{53}^3 c_{55}^{-2} \\
&-8\sqrt{3}c_{31}^0 c_{33}^{-1} c_{53}^2 c_{55}^{-1} + 20c_{31}^0 c_{33}^{-1} c_{53}^1 c_{55}^0 - 8\sqrt{10}c_{31}^0 c_{33}^{-1} c_{53}^0 c_{55}^1 + 2\sqrt{210}c_{31}^0 c_{33}^{-1} c_{53}^{-1} c_{55}^2 \\
&-8\sqrt{14}c_{31}^0 c_{33}^{-1} c_{53}^{-2} c_{55}^3 + 4\sqrt{42}c_{31}^0 c_{33}^{-1} c_{53}^{-3} c_{55}^4 - \sqrt{5}c_{31}^0 c_{33}^{-2} c_{53}^3 c_{55}^{-1} + 5c_{31}^0 c_{33}^{-2} c_{53}^2 c_{55}^0 \\
&-5\sqrt{3}c_{31}^0 c_{33}^{-2} c_{53}^1 c_{55}^1 + 5\sqrt{7}c_{31}^0 c_{33}^{-2} c_{53}^0 c_{55}^2 - 5\sqrt{14}c_{31}^0 c_{33}^{-2} c_{53}^{-1} c_{55}^3 + 3\sqrt{70}c_{31}^0 c_{33}^{-2} c_{53}^{-2} c_{55}^4 \\
&-5\sqrt{42}c_{31}^0 c_{33}^{-2} c_{53}^{-3} c_{55}^5 + 15\sqrt{14}c_{31}^{-1} c_{33}^3 c_{53}^3 c_{55}^{-5} - 3\sqrt{210}c_{31}^{-1} c_{33}^3 c_{53}^2 c_{55}^{-4} \\
&+5\sqrt{42}c_{31}^{-1} c_{33}^3 c_{53}^1 c_{55}^{-3} - 5\sqrt{21}c_{31}^{-1} c_{33}^3 c_{53}^0 c_{55}^{-2} + 15c_{31}^{-1} c_{33}^3 c_{53}^{-1} c_{55}^{-1} - 5\sqrt{3}c_{31}^{-1} c_{33}^3 c_{53}^{-2} c_{55}^0 \\
&+\sqrt{15}c_{31}^{-1} c_{33}^3 c_{53}^{-3} c_{55}^1 - 2\sqrt{210}c_{31}^{-1} c_{33}^2 c_{53}^3 c_{55}^{-4} + 4\sqrt{70}c_{31}^{-1} c_{33}^2 c_{53}^2 c_{55}^{-3} \\
&-5\sqrt{42}c_{31}^{-1} c_{33}^2 c_{53}^1 c_{55}^{-2} + 20\sqrt{2}c_{31}^{-1} c_{33}^2 c_{53}^0 c_{55}^{-1} - 10\sqrt{5}c_{31}^{-1} c_{33}^2 c_{53}^{-1} c_{55}^0 \\
&+4\sqrt{15}c_{31}^{-1} c_{33}^2 c_{53}^{-2} c_{55}^1 - \sqrt{70}c_{31}^{-1} c_{33}^2 c_{53}^{-3} c_{55}^2 + 2\sqrt{42}c_{31}^{-1} c_{33}^1 c_{53}^3 c_{55}^{-3} - 3\sqrt{42}c_{31}^{-1} c_{33}^1 c_{53}^2 c_{55}^{-2} \\
&+6\sqrt{15}c_{31}^{-1} c_{33}^1 c_{53}^1 c_{55}^{-1} - 10\sqrt{6}c_{31}^{-1} c_{33}^1 c_{53}^0 c_{55}^0 + 6\sqrt{15}c_{31}^{-1} c_{33}^1 c_{53}^{-1} c_{55}^1 \\
&-3\sqrt{42}c_{31}^{-1} c_{33}^1 c_{53}^{-2} c_{55}^2 + 2\sqrt{42}c_{31}^{-1} c_{33}^1 c_{53}^{-3} c_{55}^3 - \sqrt{21}c_{31}^{-1} c_{33}^0 c_{53}^3 c_{55}^{-2} + 6\sqrt{2}c_{31}^{-1} c_{33}^0 c_{53}^2 c_{55}^{-1} \\
&-5\sqrt{6}c_{31}^{-1} c_{33}^0 c_{53}^1 c_{55}^0 + 4\sqrt{15}c_{31}^{-1} c_{33}^0 c_{53}^0 c_{55}^1 - 3\sqrt{35}c_{31}^{-1} c_{33}^0 c_{53}^{-1} c_{55}^2 + 4\sqrt{21}c_{31}^{-1} c_{33}^0 c_{53}^{-2} c_{55}^3 \\
&-6\sqrt{7}c_{31}^{-1} c_{33}^0 c_{53}^{-3} c_{55}^4 + c_{31}^{-1} c_{33}^{-1} c_{53}^3 c_{55}^{-1} - \sqrt{5}c_{31}^{-1} c_{33}^{-1} c_{53}^2 c_{55}^0 + \sqrt{15}c_{31}^{-1} c_{33}^{-1} c_{53}^1 c_{55}^1 \\
&-\sqrt{35}c_{31}^{-1} c_{33}^{-1} c_{53}^0 c_{55}^2 + \sqrt{70}c_{31}^{-1} c_{33}^{-1} c_{53}^{-1} c_{55}^3 - 3\sqrt{14}c_{31}^{-1} c_{33}^{-1} c_{53}^{-2} c_{55}^4 \\
&+\sqrt{210}c_{31}^{-1} c_{33}^{-1} c_{53}^{-3} c_{55}^5)/(c_{00}^0)^{28/3}
\end{aligned}
$$

$$\Phi_{64} = c_5(5,3)_2 c_3(1,1)_2 = \frac{1}{3}\sqrt{\frac{1}{770}}(3\sqrt{70}(c_{31}^1)^2 c_{53}^3 c_{55}^{-5} - 3\sqrt{42}(c_{31}^1)^2 c_{53}^2 c_{55}^{-4}$$
$$+ \sqrt{210}(c_{31}^1)^2 c_{53}^1 c_{55}^{-3} - \sqrt{105}(c_{31}^1)^2 c_{53}^0 c_{55}^{-2} + 3\sqrt{5}(c_{31}^1)^2 c_{53}^{-1} c_{55}^{-1} - \sqrt{15}(c_{31}^1)^2 c_{53}^{-2} c_{55}^0$$
$$+ \sqrt{3}(c_{31}^1)^2 c_{53}^{-3} c_{55}^1 - 6\sqrt{14}c_{31}^0 c_{31}^1 c_{53}^3 c_{55}^{-4} + 4\sqrt{42}c_{31}^0 c_{31}^1 c_{53}^2 c_{55}^{-3} - 3\sqrt{70}c_{31}^0 c_{31}^1 c_{53}^1 c_{55}^{-2}$$
$$+ 4\sqrt{30}c_{31}^0 c_{31}^1 c_{53}^0 c_{55}^{-1} - 10\sqrt{3}c_{31}^0 c_{31}^1 c_{53}^{-1} c_{55}^0 + 12c_{31}^0 c_{31}^1 c_{53}^{-2} c_{55}^1 - \sqrt{42}c_{31}^0 c_{31}^1 c_{53}^{-3} c_{55}^2$$
$$+ 2\sqrt{14}(c_{31}^0)^2 c_{53}^3 c_{55}^{-3} - 3\sqrt{14}(c_{31}^0)^2 c_{53}^2 c_{55}^{-2} + 6\sqrt{5}(c_{31}^0)^2 c_{53}^1 c_{55}^{-1} - 10\sqrt{2}(c_{31}^0)^2 c_{53}^0 c_{55}^0$$
$$+ 6\sqrt{5}(c_{31}^0)^2 c_{53}^{-1} c_{55}^1 - 3\sqrt{14}(c_{31}^0)^2 c_{53}^{-2} c_{55}^2 + 2\sqrt{14}(c_{31}^0)^2 c_{53}^{-3} c_{55}^3 + 2\sqrt{14}c_{31}^{-1} c_{31}^1 c_{53}^3 c_{55}^{-3}$$
$$- 3\sqrt{14}c_{31}^{-1} c_{31}^1 c_{53}^2 c_{55}^{-2} + 6\sqrt{5}c_{31}^{-1} c_{31}^1 c_{53}^1 c_{55}^{-1} - 10\sqrt{2}c_{31}^{-1} c_{31}^1 c_{53}^0 c_{55}^0 + 6\sqrt{5}c_{31}^{-1} c_{31}^1 c_{53}^{-1} c_{55}^1$$
$$- 3\sqrt{14}c_{31}^{-1} c_{31}^1 c_{53}^{-2} c_{55}^2 + 2\sqrt{14}c_{31}^{-1} c_{31}^1 c_{53}^{-3} c_{55}^3 - \sqrt{42}c_{31}^{-1} c_{31}^0 c_{53}^3 c_{55}^{-2} + 12c_{31}^{-1} c_{31}^0 c_{53}^2 c_{55}^{-1}$$
$$- 10\sqrt{3}c_{31}^{-1} c_{31}^0 c_{53}^1 c_{55}^0 + 4\sqrt{30}c_{31}^{-1} c_{31}^0 c_{53}^0 c_{55}^1 - 3\sqrt{70}c_{31}^{-1} c_{31}^0 c_{53}^{-1} c_{55}^2$$
$$+ 4\sqrt{42}c_{31}^{-1} c_{31}^0 c_{53}^{-2} c_{55}^3 - 6\sqrt{14}c_{31}^{-1} c_{31}^0 c_{53}^{-3} c_{55}^4 + \sqrt{3}(c_{31}^{-1})^2 c_{53}^3 c_{55}^{-1} - \sqrt{15}(c_{31}^{-1})^2 c_{53}^2 c_{55}^0$$
$$+ 3\sqrt{5}(c_{31}^{-1})^2 c_{53}^1 c_{55}^1 - \sqrt{105}(c_{31}^{-1})^2 c_{53}^0 c_{55}^2 + \sqrt{210}(c_{31}^{-1})^2 c_{53}^{-1} c_{55}^3 - 3\sqrt{42}(c_{31}^{-1})^2 c_{53}^{-2} c_{55}^4$$
$$+ 3\sqrt{70}(c_{31}^{-1})^2 c_{53}^{-3} c_{55}^5)/(c_{00}^0)^{28/3}$$

$$\Phi_{65} = c_5(3,3)_2 c_3(3,3)_2 = \frac{1}{21}\sqrt{\frac{1}{5}}(6(c_{33}^1)^2(c_{53}^{-1})^2 - 2\sqrt{30}(c_{33}^1)^2 c_{53}^{-2} c_{53}^0 + 2\sqrt{15}(c_{33}^1)^2 c_{53}^{-3} c_{53}^1$$
$$- 2\sqrt{30}c_{33}^0 c_{33}^2(c_{53}^{-1})^2 + 20c_{33}^0 c_{33}^2 c_{53}^{-2} c_{53}^0 - 10\sqrt{2}c_{33}^0 c_{33}^2 c_{53}^{-3} c_{53}^1 - 2c_{33}^0 c_{33}^1 c_{53}^{-1} c_{53}^0$$
$$+ \sqrt{30}c_{33}^0 c_{33}^1 c_{53}^{-2} c_{53}^1 - 5\sqrt{2}c_{33}^0 c_{33}^1 c_{53}^{-3} c_{53}^2 + 4(c_{33}^0)^2(c_{53}^0)^2 - 6(c_{33}^0)^2 c_{53}^{-1} c_{53}^1$$
$$+ 10(c_{33}^0)^2 c_{53}^{-3} c_{53}^3 + 2\sqrt{15}c_{33}^{-1} c_{33}^3(c_{53}^{-1})^2 - 10\sqrt{2}c_{33}^{-1} c_{33}^3 c_{53}^{-2} c_{53}^0 + 10c_{33}^{-1} c_{33}^3 c_{53}^{-3} c_{53}^1$$
$$+ \sqrt{30}c_{33}^{-1} c_{33}^2 c_{53}^{-1} c_{53}^0 - 15c_{33}^{-1} c_{33}^2 c_{53}^{-2} c_{53}^1 + 5\sqrt{15}c_{33}^{-1} c_{33}^2 c_{53}^{-3} c_{53}^2 - 6c_{33}^{-1} c_{33}^1(c_{53}^0)^2$$
$$+ 9c_{33}^{-1} c_{33}^1 c_{53}^{-1} c_{53}^1 - 15c_{33}^{-1} c_{33}^1 c_{53}^{-3} c_{53}^3 - 2c_{33}^{-1} c_{33}^0 c_{53}^0 c_{53}^1 + \sqrt{30}c_{33}^{-1} c_{33}^0 c_{53}^0 c_{53}^2$$
$$- 5\sqrt{2}c_{33}^{-1} c_{33}^0 c_{53}^{-2} c_{53}^3 + 6(c_{33}^{-1})^2(c_{53}^1)^2 - 2\sqrt{30}(c_{33}^{-1})^2 c_{53}^0 c_{53}^2 + 2\sqrt{15}(c_{33}^{-1})^2 c_{53}^{-1} c_{53}^3$$
$$- 5\sqrt{2}c_{33}^{-2} c_{33}^3 c_{53}^{-1} c_{53}^0 + 5\sqrt{15}c_{33}^{-2} c_{33}^3 c_{53}^{-2} c_{53}^1 - 25c_{33}^{-2} c_{33}^3 c_{53}^{-3} c_{53}^2 + \sqrt{30}c_{33}^{-2} c_{33}^1 c_{53}^0 c_{53}^1$$
$$- 15c_{33}^{-2} c_{33}^1 c_{53}^{-1} c_{53}^2 + 5\sqrt{15}c_{33}^{-2} c_{33}^1 c_{53}^{-2} c_{53}^3 - 2\sqrt{30}c_{33}^{-2} c_{33}^0(c_{53}^1)^2 + 20c_{33}^{-2} c_{33}^0 c_{53}^0 c_{53}^2$$
$$- 10\sqrt{2}c_{33}^{-2} c_{33}^0 c_{53}^{-1} c_{53}^3 + 10c_{33}^{-3} c_{33}^3(c_{53}^0)^2 - 15c_{33}^{-3} c_{33}^3 c_{53}^{-1} c_{53}^1 + 25c_{33}^{-3} c_{33}^3 c_{53}^{-3} c_{53}^3$$
$$- 5\sqrt{2}c_{33}^{-3} c_{33}^2 c_{53}^0 c_{53}^1 + 5\sqrt{15}c_{33}^{-3} c_{33}^2 c_{53}^{-1} c_{53}^2 - 25c_{33}^{-3} c_{33}^2 c_{53}^{-2} c_{53}^3 + 2\sqrt{15}c_{33}^{-3} c_{33}^1(c_{53}^1)^2$$
$$- 10\sqrt{2}c_{33}^{-3} c_{33}^1 c_{53}^0 c_{53}^2 + 10c_{33}^{-3} c_{33}^1 c_{53}^{-1} c_{53}^3)/(c_{00}^0)^{28/3}$$

$$\Phi_{66} = c_5(3,3)_2 c_3(3,1)_2 = \frac{1}{21}\sqrt{\frac{1}{5}}(\sqrt{6}c_{31}^1 c_{33}^1(c_{53}^{-1})^2 - 2\sqrt{5}c_{31}^1 c_{33}^1 c_{53}^{-2} c_{53}^0 + \sqrt{10}c_{31}^1 c_{33}^1 c_{53}^{-3} c_{53}^1$$
$$- \sqrt{6}c_{31}^1 c_{33}^0 c_{53}^{-1} c_{53}^0 + 3\sqrt{5}c_{31}^1 c_{33}^0 c_{53}^{-2} c_{53}^1 - 5\sqrt{3}c_{31}^1 c_{33}^0 c_{53}^{-3} c_{53}^2 + 2\sqrt{6}c_{31}^1 c_{33}^{-1}(c_{53}^0)^2$$
$$- 3\sqrt{6}c_{31}^1 c_{33}^{-1} c_{53}^{-1} c_{53}^1 + 5\sqrt{6}c_{31}^1 c_{33}^{-1} c_{53}^{-3} c_{53}^3 - 2\sqrt{5}c_{31}^1 c_{33}^{-2} c_{53}^0 c_{53}^1 + 5\sqrt{6}c_{31}^1 c_{33}^{-2} c_{53}^{-1} c_{53}^2$$
$$- 5\sqrt{10}c_{31}^1 c_{33}^{-2} c_{53}^{-2} c_{53}^3 + 3\sqrt{10}c_{31}^1 c_{33}^{-3}(c_{53}^1)^2 - 10\sqrt{3}c_{31}^1 c_{33}^{-3} c_{53}^0 c_{53}^2 + 5\sqrt{6}c_{31}^1 c_{33}^{-3} c_{53}^{-1} c_{53}^3$$
$$- \sqrt{30}c_{31}^0 c_{33}^2(c_{53}^{-1})^2 + 10c_{31}^0 c_{33}^2 c_{53}^{-2} c_{53}^0 - 5\sqrt{2}c_{31}^0 c_{33}^2 c_{53}^{-3} c_{53}^1 + 4c_{31}^0 c_{33}^1 c_{53}^{-1} c_{53}^0$$
$$- 2\sqrt{30}c_{31}^0 c_{33}^1 c_{53}^{-2} c_{53}^1 + 10\sqrt{2}c_{31}^0 c_{33}^1 c_{53}^{-3} c_{53}^2 - 6c_{31}^0 c_{33}^0(c_{53}^0)^2 + 9c_{31}^0 c_{33}^0 c_{53}^{-1} c_{53}^1$$
$$- 15c_{31}^0 c_{33}^0 c_{53}^{-3} c_{53}^3 + 4c_{31}^0 c_{33}^{-1} c_{53}^0 c_{53}^1 - 2\sqrt{30}c_{31}^0 c_{33}^{-1} c_{53}^{-1} c_{53}^2 + 10\sqrt{2}c_{31}^0 c_{33}^{-1} c_{53}^{-2} c_{53}^3$$
$$- \sqrt{30}c_{31}^0 c_{33}^{-2}(c_{53}^1)^2 + 10c_{31}^0 c_{33}^{-2} c_{53}^0 c_{53}^2 - 5\sqrt{2}c_{31}^0 c_{33}^{-2} c_{53}^{-1} c_{53}^3 + 3\sqrt{10}c_{31}^{-1} c_{33}^3(c_{53}^{-1})^2$$
$$- 10\sqrt{3}c_{31}^{-1} c_{33}^3 c_{53}^{-2} c_{53}^0 + 5\sqrt{6}c_{31}^{-1} c_{33}^3 c_{53}^{-3} c_{53}^1 - 2\sqrt{5}c_{31}^{-1} c_{33}^2 c_{53}^0 c_{53}^0 + 5\sqrt{6}c_{31}^{-1} c_{33}^2 c_{53}^{-2} c_{53}^1$$
$$- 5\sqrt{10}c_{31}^{-1} c_{33}^2 c_{53}^{-3} c_{53}^2 + 2\sqrt{6}c_{31}^{-1} c_{33}^1(c_{53}^0)^2 - 3\sqrt{6}c_{31}^{-1} c_{33}^1 c_{53}^{-1} c_{53}^1 + 5\sqrt{6}c_{31}^{-1} c_{33}^1 c_{53}^{-3} c_{53}^3$$
$$- \sqrt{6}c_{31}^{-1} c_{33}^0 c_{53}^0 c_{53}^1 + 3\sqrt{5}c_{31}^{-1} c_{33}^0 c_{53}^{-1} c_{53}^2 - 5\sqrt{3}c_{31}^{-1} c_{33}^0 c_{53}^{-2} c_{53}^3 + \sqrt{6}c_{31}^{-1} c_{33}^{-1}(c_{53}^1)^2$$
$$- 2\sqrt{5}c_{31}^{-1} c_{33}^{-1} c_{53}^0 c_{53}^2 + \sqrt{10}c_{31}^{-1} c_{33}^{-1} c_{53}^{-1} c_{53}^3)/(c_{00}^0)^{28/3}$$

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$$\Phi_{67} = c_5(3,3)_2 c_3(1,1)_2 = \frac{1}{3}\sqrt{\frac{2}{35}}(3(c_{31}^1)^2(c_{53}^{-1})^2 - \sqrt{30}(c_{31}^1)^2 c_{53}^{-2} c_{53}^0 + \sqrt{15}(c_{31}^1)^2 c_{53}^{-3} c_{53}^1$$
$$-\sqrt{6}c_{31}^0 c_{31}^1 c_{53}^{-1} c_{53}^0 + 3\sqrt{5}c_{31}^0 c_{31}^1 c_{53}^{-2} c_{53}^1 - 5\sqrt{3}c_{31}^0 c_{31}^1 c_{53}^{-3} c_{53}^2 + 2(c_{31}^0)^2(c_{53}^0)^2$$
$$-3(c_{31}^0)^2 c_{53}^{-3} c_{53}^1 + 5(c_{31}^0)^2 c_{53}^{-3} c_{53}^3 + 2c_{31}^{-1} c_{31}^1(c_{53}^0)^2 - 3c_{31}^{-1} c_{31}^1 c_{53}^{-1} c_{53}^1$$
$$+5c_{31}^{-1} c_{31}^1 c_{53}^{-3} c_{53}^3 - \sqrt{6}c_{31}^{-1} c_{31}^0 c_{53}^0 c_{53}^1 + 3\sqrt{5}c_{31}^{-1} c_{31}^0 c_{53}^{-1} c_{53}^2 - 5\sqrt{3}c_{31}^{-1} c_{31}^0 c_{53}^{-2} c_{53}^3$$
$$+3(c_{31}^{-1})^2(c_{53}^1)^2 - \sqrt{30}(c_{31}^{-1})^2 c_{53}^0 c_{53}^2 + \sqrt{15}(c_{31}^{-1})^2 c_{53}^{-1} c_{53}^3)/(c_{00}^0)^{28/3}$$

$$\Phi_{68} = c_5(3,1)_2 c_3(3,1)_2 = \frac{1}{21}\sqrt{\frac{1}{5}}(\sqrt{15}c_{31}^1 c_{33}^1 c_{51}^1 c_{53}^{-3} - \sqrt{5}c_{31}^1 c_{33}^1 c_{51}^0 c_{53}^{-2} + c_{31}^1 c_{33}^1 c_{51}^{-1} c_{53}^{-1}$$
$$-\sqrt{30}c_{31}^1 c_{33}^0 c_{51}^1 c_{53}^{-2} + 2\sqrt{6}c_{31}^1 c_{33}^0 c_{51}^0 c_{53}^{-1} - 3c_{31}^1 c_{33}^0 c_{51}^{-1} c_{53}^0 + 6c_{31}^1 c_{33}^{-1} c_{51}^1 c_{53}^{-1}$$
$$-3\sqrt{6}c_{31}^1 c_{33}^{-1} c_{51}^0 c_{53}^0 + 6c_{31}^1 c_{33}^{-1} c_{51}^{-1} c_{53}^1 - \sqrt{30}c_{31}^1 c_{33}^{-2} c_{51}^1 c_{53}^0 + 4\sqrt{5}c_{31}^1 c_{33}^{-2} c_{51}^0 c_{53}^1$$
$$-10c_{31}^1 c_{33}^{-2} c_{51}^{-1} c_{53}^2 + \sqrt{15}c_{31}^1 c_{33}^{-3} c_{51}^1 c_{53}^1 - 5\sqrt{3}c_{31}^1 c_{33}^{-3} c_{51}^0 c_{53}^2 + 15c_{31}^1 c_{33}^{-3} c_{51}^{-1} c_{53}^3$$
$$-5\sqrt{3}c_{31}^0 c_{33}^2 c_{51}^1 c_{53}^{-3} + 5c_{31}^0 c_{33}^1 c_{51}^0 c_{53}^{-2} - \sqrt{5}c_{31}^0 c_{33}^2 c_{51}^{-1} c_{53}^{-1} + 4\sqrt{5}c_{31}^0 c_{33}^1 c_{51}^1 c_{53}^{-2}$$
$$-8c_{31}^0 c_{33}^1 c_{51}^0 c_{53}^{-1} + 2\sqrt{6}c_{31}^0 c_{33}^1 c_{51}^{-1} c_{53}^0 - 3\sqrt{6}c_{31}^0 c_{33}^0 c_{51}^1 c_{53}^{-1} + 9c_{31}^0 c_{33}^0 c_{51}^0 c_{53}^0$$
$$-3\sqrt{6}c_{31}^0 c_{33}^0 c_{51}^{-1} c_{53}^1 + 2\sqrt{6}c_{31}^0 c_{33}^{-1} c_{51}^1 c_{53}^0 - 8c_{31}^0 c_{33}^{-1} c_{51}^0 c_{53}^1 + 4\sqrt{5}c_{31}^0 c_{33}^{-1} c_{51}^{-1} c_{53}^2$$
$$-\sqrt{5}c_{31}^0 c_{33}^{-2} c_{51}^1 c_{53}^1 + 5c_{31}^0 c_{33}^{-2} c_{51}^0 c_{53}^2 - 5\sqrt{3}c_{31}^0 c_{33}^{-2} c_{51}^{-1} c_{53}^3 + 15c_{31}^{-1} c_{33}^3 c_{51}^1 c_{53}^{-3}$$
$$-5\sqrt{3}c_{31}^{-1} c_{33}^3 c_{51}^0 c_{53}^{-2} + \sqrt{15}c_{31}^{-1} c_{33}^3 c_{51}^{-1} c_{53}^{-1} - 10c_{31}^{-1} c_{33}^2 c_{51}^1 c_{53}^{-2} + 4\sqrt{5}c_{31}^{-1} c_{33}^2 c_{51}^0 c_{53}^{-1}$$
$$-\sqrt{30}c_{31}^{-1} c_{33}^2 c_{51}^{-1} c_{53}^0 + 6c_{31}^{-1} c_{33}^1 c_{51}^1 c_{53}^{-1} - 3\sqrt{6}c_{31}^{-1} c_{33}^1 c_{51}^0 c_{53}^0 + 6c_{31}^{-1} c_{33}^1 c_{51}^{-1} c_{53}^1$$
$$-3c_{31}^{-1} c_{33}^0 c_{51}^1 c_{53}^0 + 2\sqrt{6}c_{31}^{-1} c_{33}^0 c_{51}^0 c_{53}^1 - \sqrt{30}c_{31}^{-1} c_{33}^0 c_{51}^{-1} c_{53}^2 + c_{31}^{-1} c_{33}^1 c_{51}^1 c_{53}^1$$
$$-\sqrt{5}c_{31}^{-1} c_{33}^{-1} c_{51}^0 c_{53}^2 + \sqrt{15}c_{31}^{-1} c_{33}^{-1} c_{51}^{-1} c_{53}^3)/(c_{00}^0)^{28/3}$$

$$\Phi_{69} = c_5(3,1)_2 c_3(1,1)_2 = \sqrt{\frac{1}{105}}(\sqrt{15}(c_{31}^1)^2 c_{51}^1 c_{53}^{-3} - \sqrt{5}(c_{31}^1)^2 c_{51}^0 c_{53}^{-2} + (c_{31}^1)^2 c_{51}^{-1} c_{53}^{-1}$$
$$-2\sqrt{5}c_{31}^0 c_{31}^1 c_{51}^1 c_{53}^{-2} + 4c_{31}^0 c_{31}^1 c_{51}^0 c_{53}^{-1} - \sqrt{6}c_{31}^0 c_{31}^1 c_{51}^{-1} c_{53}^0 + 2(c_{31}^0)^2 c_{51}^1 c_{53}^{-1}$$
$$-\sqrt{6}(c_{31}^0)^2 c_{51}^0 c_{53}^0 + 2(c_{31}^0)^2 c_{51}^{-1} c_{53}^1 + 2c_{31}^{-1} c_{31}^1 c_{51}^1 c_{53}^{-1} - \sqrt{6}c_{31}^{-1} c_{31}^1 c_{51}^0 c_{53}^0$$
$$+2c_{31}^{-1} c_{31}^1 c_{51}^{-1} c_{53}^1 - \sqrt{6}c_{31}^{-1} c_{31}^0 c_{51}^1 c_{53}^0 + 4c_{31}^{-1} c_{31}^0 c_{51}^0 c_{53}^1 - 2\sqrt{5}c_{31}^{-1} c_{31}^0 c_{51}^{-1} c_{53}^2$$
$$+(c_{31}^{-1})^2 c_{51}^1 c_{53}^1 - \sqrt{5}(c_{31}^{-1})^2 c_{51}^0 c_{53}^2 + \sqrt{15}(c_{31}^{-1})^2 c_{51}^{-1} c_{53}^3)/(c_{00}^0)^{28/3}$$

$$\Phi_{70} = c_5(1,1)_2 c_3(1,1)_2 = \frac{1}{3}\sqrt{\frac{1}{5}}(3(c_{31}^1)^2(c_{51}^{-1})^2 - 6c_{31}^0 c_{31}^1 c_{51}^{-1} c_{51}^0 + 2(c_{31}^0)^2(c_{51}^0)^2$$
$$+2(c_{31}^0)^2 c_{51}^{-1} c_{51}^1 + 2c_{31}^{-1} c_{31}^1(c_{51}^0)^2 + 2c_{31}^{-1} c_{31}^1 c_{51}^{-1} c_{51}^1 - 6c_{31}^{-1} c_{31}^0 c_{51}^0 c_{51}^1$$
$$+3(c_{31}^{-1})^2(c_{51}^1)^2)/(c_{00}^0)^{28/3}$$

$$
\begin{aligned}
\Phi_{71} \;=\; & c_5(5,5)_2 c_4(4,4)_2 = \frac{1}{33}\sqrt{\frac{2}{1365}}\big(-75(c_{44}^1)^2(c_{55}^{-1})^2 + 10\sqrt{210}(c_{44}^1)^2 c_{55}^{-2} c_{55}^0 \\
& -20\sqrt{42}(c_{44}^1)^2 c_{55}^{-3} c_{55}^1 + 60\sqrt{3}(c_{44}^1)^2 c_{55}^{-4} c_{55}^2 - 30\sqrt{5}(c_{44}^1)^2 c_{55}^{-5} c_{55}^3 + 45\sqrt{10}\,c_{44}^0 c_{44}^2 (c_{55}^{-1})^2 \\
& -60\sqrt{21}\,c_{44}^0 c_{44}^2 c_{55}^{-2} c_{55}^0 + 24\sqrt{105}\,c_{44}^0 c_{44}^2 c_{55}^{-3} c_{55}^1 - 36\sqrt{30}\,c_{44}^0 c_{44}^2 c_{55}^{-4} c_{55}^2 \\
& +90\sqrt{2}\,c_{44}^0 c_{44}^2 c_{55}^{-5} c_{55}^3 + 5\sqrt{6}\,c_{44}^0 c_{44}^1 c_{55}^{-1} c_{55}^0 - 6\sqrt{35}\,c_{44}^0 c_{44}^1 c_{55}^{-2} c_{55}^1 \\
& +10\sqrt{30}\,c_{44}^0 c_{44}^1 c_{55}^{-3} c_{55}^2 - 21\sqrt{10}\,c_{44}^0 c_{44}^1 c_{55}^{-4} c_{55}^3 + 45\sqrt{2}\,c_{44}^0 c_{44}^1 c_{55}^{-5} c_{55}^4 - 50(c_{44}^0)^2(c_{55}^0)^2 \\
& +90(c_{44}^0)^2 c_{55}^{-1} c_{55}^1 - 60(c_{44}^0)^2 c_{55}^{-2} c_{55}^2 + 10(c_{44}^0)^2 c_{55}^{-3} c_{55}^3 + 60(c_{44}^0)^2 c_{55}^{-4} c_{55}^4 \\
& -150(c_{44}^0)^2 c_{55}^{-5} c_{55}^5 - 45\sqrt{7}\,c_{44}^{-1} c_{44}^3 (c_{55}^{-1})^2 + 42\sqrt{30}\,c_{44}^{-1} c_{44}^3 c_{55}^{-2} c_{55}^0 - 84\sqrt{6}\,c_{44}^{-1} c_{44}^3 c_{55}^{-3} c_{55}^1 \\
& +36\sqrt{21}\,c_{44}^{-1} c_{44}^3 c_{55}^{-4} c_{55}^2 - 18\sqrt{35}\,c_{44}^{-1} c_{44}^3 c_{55}^{-5} c_{55}^3 - 9\sqrt{15}\,c_{44}^{-1} c_{44}^2 c_{55}^{-1} c_{55}^0 \\
& +27\sqrt{14}\,c_{44}^{-1} c_{44}^2 c_{55}^{-2} c_{55}^1 - 90\sqrt{3}\,c_{44}^{-1} c_{44}^2 c_{55}^{-3} c_{55}^2 + 189\,c_{44}^{-1} c_{44}^2 c_{55}^{-4} c_{55}^3 \\
& -81\sqrt{5}\,c_{44}^{-1} c_{44}^2 c_{55}^{-5} c_{55}^4 + 85\,c_{44}^{-1} c_{44}^1 (c_{55}^0)^2 - 153\,c_{44}^{-1} c_{44}^1 c_{55}^{-1} c_{55}^1 + 102\,c_{44}^{-1} c_{44}^1 c_{55}^{-2} c_{55}^2 \\
& -17\,c_{44}^{-1} c_{44}^1 c_{55}^{-3} c_{55}^3 - 102\,c_{44}^{-1} c_{44}^1 c_{55}^{-4} c_{55}^4 + 255\,c_{44}^{-1} c_{44}^1 c_{55}^{-5} c_{55}^5 + 5\sqrt{6}\,c_{44}^{-1} c_{44}^0 c_{55}^{-1} c_{55}^1 \\
& -6\sqrt{35}\,c_{44}^{-1} c_{44}^0 c_{55}^{-1} c_{55}^2 + 10\sqrt{30}\,c_{44}^{-1} c_{44}^0 c_{55}^{-2} c_{55}^3 - 21\sqrt{10}\,c_{44}^{-1} c_{44}^0 c_{55}^{-3} c_{55}^4 \\
& +45\sqrt{2}\,c_{44}^{-1} c_{44}^0 c_{55}^{-4} c_{55}^5 - 75(c_{44}^{-1})^2(c_{55}^1)^2 + 10\sqrt{210}(c_{44}^{-1})^2 c_{55}^0 c_{55}^2 - 20\sqrt{42}(c_{44}^{-1})^2 c_{55}^{-1} c_{55}^3 \\
& +60\sqrt{3}(c_{44}^{-1})^2 c_{55}^{-2} c_{55}^4 - 30\sqrt{5}(c_{44}^{-1})^2 c_{55}^{-3} c_{55}^5 + 30\sqrt{7}\,c_{44}^{-2} c_{44}^4 (c_{55}^{-1})^2 - 28\sqrt{30}\,c_{44}^{-2} c_{44}^4 c_{55}^{-2} c_{55}^0 \\
& +56\sqrt{6}\,c_{44}^{-2} c_{44}^4 c_{55}^{-3} c_{55}^1 - 24\sqrt{21}\,c_{44}^{-2} c_{44}^4 c_{55}^{-4} c_{55}^2 + 12\sqrt{35}\,c_{44}^{-2} c_{44}^4 c_{55}^{-5} c_{55}^3 \\
& +5\sqrt{105}\,c_{44}^{-2} c_{44}^3 c_{55}^{-1} c_{55}^0 - 105\sqrt{2}\,c_{44}^{-2} c_{44}^3 c_{55}^{-2} c_{55}^1 + 50\sqrt{21}\,c_{44}^{-2} c_{44}^3 c_{55}^{-3} c_{55}^2 \\
& -105\sqrt{7}\,c_{44}^{-2} c_{44}^3 c_{55}^{-4} c_{55}^3 + 45\sqrt{35}\,c_{44}^{-2} c_{44}^3 c_{55}^{-5} c_{55}^4 - 40\,c_{44}^{-2} c_{44}^2 (c_{55}^0)^2 + 72\,c_{44}^{-2} c_{44}^2 c_{55}^{-1} c_{55}^1 \\
& -48\,c_{44}^{-2} c_{44}^2 c_{55}^{-2} c_{55}^2 + 8\,c_{44}^{-2} c_{44}^2 c_{55}^{-3} c_{55}^3 + 48\,c_{44}^{-2} c_{44}^2 c_{55}^{-4} c_{55}^4 - 120\,c_{44}^{-2} c_{44}^2 c_{55}^{-5} c_{55}^5 \\
& -9\sqrt{15}\,c_{44}^{-2} c_{44}^1 c_{55}^0 c_{55}^1 + 27\sqrt{14}\,c_{44}^{-2} c_{44}^1 c_{55}^{-1} c_{55}^2 - 90\sqrt{3}\,c_{44}^{-2} c_{44}^1 c_{55}^{-2} c_{55}^3 \\
& +189\,c_{44}^{-2} c_{44}^1 c_{55}^{-3} c_{55}^4 - 81\sqrt{5}\,c_{44}^{-2} c_{44}^1 c_{55}^{-4} c_{55}^5 + 45\sqrt{10}\,c_{44}^{-2} c_{44}^0 (c_{55}^1)^2 \\
& -60\sqrt{21}\,c_{44}^{-2} c_{44}^0 c_{55}^0 c_{55}^2 + 24\sqrt{105}\,c_{44}^{-2} c_{44}^0 c_{55}^{-1} c_{55}^3 - 36\sqrt{30}\,c_{44}^{-2} c_{44}^0 c_{55}^{-2} c_{55}^4 \\
& +90\sqrt{2}\,c_{44}^{-2} c_{44}^0 c_{55}^{-3} c_{55}^5 - 14\sqrt{15}\,c_{44}^{-3} c_{44}^4 c_{55}^{-1} c_{55}^0 + 42\sqrt{14}\,c_{44}^{-3} c_{44}^4 c_{55}^{-2} c_{55}^1 \\
& -140\sqrt{3}\,c_{44}^{-3} c_{44}^4 c_{55}^{-3} c_{55}^2 + 294\,c_{44}^{-3} c_{44}^4 c_{55}^{-4} c_{55}^3 - 126\sqrt{5}\,c_{44}^{-3} c_{44}^4 c_{55}^{-5} c_{55}^4 - 35\,c_{44}^{-3} c_{44}^3 (c_{55}^0)^2 \\
& +63\,c_{44}^{-3} c_{44}^3 c_{55}^{-1} c_{55}^1 - 42\,c_{44}^{-3} c_{44}^3 c_{55}^{-2} c_{55}^2 + 7\,c_{44}^{-3} c_{44}^3 c_{55}^{-3} c_{55}^3 + 42\,c_{44}^{-3} c_{44}^3 c_{55}^{-4} c_{55}^4 \\
& -105\,c_{44}^{-3} c_{44}^3 c_{55}^{-5} c_{55}^5 + 5\sqrt{105}\,c_{44}^{-3} c_{44}^2 c_{55}^0 c_{55}^1 - 105\sqrt{2}\,c_{44}^{-3} c_{44}^2 c_{55}^{-1} c_{55}^2 \\
& +50\sqrt{21}\,c_{44}^{-3} c_{44}^2 c_{55}^{-2} c_{55}^3 - 105\sqrt{7}\,c_{44}^{-3} c_{44}^2 c_{55}^{-3} c_{55}^4 + 45\sqrt{35}\,c_{44}^{-3} c_{44}^2 c_{55}^{-4} c_{55}^5 \\
& -45\sqrt{7}\,c_{44}^{-3} c_{44}^1 (c_{55}^1)^2 + 42\sqrt{30}\,c_{44}^{-3} c_{44}^1 c_{55}^0 c_{55}^2 - 84\sqrt{6}\,c_{44}^{-3} c_{44}^1 c_{55}^{-1} c_{55}^3 \\
& +36\sqrt{21}\,c_{44}^{-3} c_{44}^1 c_{55}^{-2} c_{55}^4 - 18\sqrt{35}\,c_{44}^{-3} c_{44}^1 c_{55}^{-3} c_{55}^5 + 140\,c_{44}^{-4} c_{44}^4 (c_{55}^0)^2 - 252\,c_{44}^{-4} c_{44}^4 c_{55}^{-1} c_{55}^1 \\
& +168\,c_{44}^{-4} c_{44}^4 c_{55}^{-2} c_{55}^2 - 28\,c_{44}^{-4} c_{44}^4 c_{55}^{-3} c_{55}^3 - 168\,c_{44}^{-4} c_{44}^4 c_{55}^{-4} c_{55}^4 + 420\,c_{44}^{-4} c_{44}^4 c_{55}^{-5} c_{55}^5 \\
& -14\sqrt{15}\,c_{44}^{-4} c_{44}^3 c_{55}^0 c_{55}^1 + 42\sqrt{14}\,c_{44}^{-4} c_{44}^3 c_{55}^{-1} c_{55}^2 - 140\sqrt{3}\,c_{44}^{-4} c_{44}^3 c_{55}^{-2} c_{55}^3 \\
& +294\,c_{44}^{-4} c_{44}^3 c_{55}^{-3} c_{55}^4 - 126\sqrt{5}\,c_{44}^{-4} c_{44}^3 c_{55}^{-4} c_{55}^5 + 30\sqrt{7}\,c_{44}^{-4} c_{44}^2 (c_{55}^1)^2 \\
& -28\sqrt{30}\,c_{44}^{-4} c_{44}^2 c_{55}^0 c_{55}^2 + 56\sqrt{6}\,c_{44}^{-4} c_{44}^2 c_{55}^{-1} c_{55}^3 - 24\sqrt{21}\,c_{44}^{-4} c_{44}^2 c_{55}^{-2} c_{55}^4 \\
& +12\sqrt{35}\,c_{44}^{-4} c_{44}^2 c_{55}^{-3} c_{55}^5 \big)/(c_{00}^0)^{10}
\end{aligned}
$$

$$\begin{aligned}
\Phi_{72} &= c_5(5,5)_2 c_4(4,2)_2 = \frac{1}{3}\sqrt{\frac{1}{30030}}(5\sqrt{3}c_{42}^2 c_{44}^0 (c_{55}^{-1})^2 - 2\sqrt{70}c_{42}^2 c_{44}^0 c_{55}^{-2} c_{55}^0 \\
&\quad + 4\sqrt{14}c_{42}^2 c_{44}^0 c_{55}^{-3} c_{55}^1 - 12c_{42}^2 c_{44}^0 c_{55}^{-4} c_{55}^2 + 2\sqrt{15}c_{42}^2 c_{44}^0 c_{55}^{-5} c_{55}^3 - 5\sqrt{2}c_{42}^2 c_{44}^{-1} c_{55}^{-1} c_{55}^0 \\
&\quad + 2\sqrt{105}c_{42}^2 c_{44}^{-1} c_{55}^{-2} c_{55}^1 - 10\sqrt{10}c_{42}^2 c_{44}^{-1} c_{55}^{-3} c_{55}^2 + 7\sqrt{30}c_{42}^2 c_{44}^{-1} c_{55}^{-4} c_{55}^3 \\
&\quad - 15\sqrt{6}c_{42}^2 c_{44}^{-1} c_{55}^{-5} c_{55}^4 + 5\sqrt{30}c_{42}^2 c_{44}^{-2} (c_{55}^0)^2 - 9\sqrt{30}c_{42}^2 c_{44}^{-2} c_{55}^{-1} c_{55}^1 + 6\sqrt{30}c_{42}^2 c_{44}^{-2} c_{55}^{-2} c_{55}^2 \\
&\quad - \sqrt{30}c_{42}^2 c_{44}^{-2} c_{55}^{-3} c_{55}^3 - 6\sqrt{30}c_{42}^2 c_{44}^{-2} c_{55}^{-4} c_{55}^4 + 15\sqrt{30}c_{42}^2 c_{44}^{-2} c_{55}^{-5} c_{55}^5 \\
&\quad - 5\sqrt{14}c_{42}^2 c_{44}^{-3} c_{55}^0 c_{55}^1 + 14\sqrt{15}c_{42}^2 c_{44}^{-3} c_{55}^{-1} c_{55}^2 - 10\sqrt{70}c_{42}^2 c_{44}^{-3} c_{55}^{-2} c_{55}^3 \\
&\quad + 7\sqrt{210}c_{42}^2 c_{44}^{-3} c_{55}^{-3} c_{55}^4 - 15\sqrt{42}c_{42}^2 c_{44}^{-3} c_{55}^{-4} c_{55}^5 + 5\sqrt{210}c_{42}^2 c_{44}^{-4} (c_{55}^5)^2 \\
&\quad - 140c_{42}^2 c_{44}^{-4} c_{55}^0 c_{55}^2 + 56\sqrt{5}c_{42}^2 c_{44}^{-4} c_{55}^{-1} c_{55}^3 - 12\sqrt{70}c_{42}^2 c_{44}^{-4} c_{55}^{-2} c_{55}^4 \\
&\quad + 10\sqrt{42}c_{42}^2 c_{44}^{-4} c_{55}^{-3} c_{55}^5 - 5\sqrt{15}c_{42}^1 c_{44}^1 (c_{55}^{-1})^2 + 10\sqrt{14}c_{42}^1 c_{44}^1 c_{55}^{-2} c_{55}^0 \\
&\quad - 4\sqrt{70}c_{42}^1 c_{44}^1 c_{55}^{-3} c_{55}^1 + 12\sqrt{5}c_{42}^1 c_{44}^1 c_{55}^{-4} c_{55}^2 - 10\sqrt{3}c_{42}^1 c_{44}^1 c_{55}^{-5} c_{55}^3 \\
&\quad + 4\sqrt{10}c_{42}^1 c_{44}^0 c_{55}^{-1} c_{55}^0 - 8\sqrt{21}c_{42}^1 c_{44}^0 c_{55}^{-2} c_{55}^1 + 40\sqrt{2}c_{42}^1 c_{44}^0 c_{55}^{-3} c_{55}^2 \\
&\quad - 28\sqrt{6}c_{42}^1 c_{44}^0 c_{55}^{-4} c_{55}^3 + 12\sqrt{30}c_{42}^1 c_{44}^0 c_{55}^{-5} c_{55}^4 - 10\sqrt{15}c_{42}^1 c_{44}^{-1} (c_{55}^0)^2 \\
&\quad + 18\sqrt{15}c_{42}^1 c_{44}^{-1} c_{55}^{-1} c_{55}^1 - 12\sqrt{15}c_{42}^1 c_{44}^{-1} c_{55}^{-2} c_{55}^2 + 2\sqrt{15}c_{42}^1 c_{44}^{-1} c_{55}^{-3} c_{55}^3 \\
&\quad + 12\sqrt{15}c_{42}^1 c_{44}^{-1} c_{55}^{-4} c_{55}^4 - 30\sqrt{15}c_{42}^1 c_{44}^{-1} c_{55}^{-5} c_{55}^5 + 20c_{42}^1 c_{44}^{-2} c_{55}^0 c_{55}^1 \\
&\quad - 4\sqrt{210}c_{42}^1 c_{44}^{-2} c_{55}^{-1} c_{55}^2 + 40\sqrt{5}c_{42}^1 c_{44}^{-2} c_{55}^{-2} c_{55}^3 - 28\sqrt{15}c_{42}^1 c_{44}^{-2} c_{55}^{-3} c_{55}^4 \\
&\quad + 60\sqrt{3}c_{42}^1 c_{44}^{-2} c_{55}^{-4} c_{55}^5 - 5\sqrt{105}c_{42}^1 c_{44}^{-3} (c_{55}^1)^2 + 70\sqrt{2}c_{42}^1 c_{44}^{-3} c_{55}^0 c_{55}^2 \\
&\quad - 28\sqrt{10}c_{42}^1 c_{44}^{-3} c_{55}^{-1} c_{55}^3 + 12\sqrt{35}c_{42}^1 c_{44}^{-3} c_{55}^{-2} c_{55}^4 - 10\sqrt{21}c_{42}^1 c_{44}^{-3} c_{55}^{-3} c_{55}^5 \\
&\quad + 15\sqrt{5}c_{42}^0 c_{44}^2 (c_{55}^{-1})^2 - 10\sqrt{42}c_{42}^0 c_{44}^2 c_{55}^{-2} c_{55}^0 + 4\sqrt{210}c_{42}^0 c_{44}^2 c_{55}^{-3} c_{55}^1 \\
&\quad - 12\sqrt{15}c_{42}^0 c_{44}^2 c_{55}^{-4} c_{55}^2 + 30c_{42}^0 c_{44}^2 c_{55}^{-5} c_{55}^3 - 10\sqrt{3}c_{42}^0 c_{44}^1 c_{55}^{-1} c_{55}^0 + 6\sqrt{70}c_{42}^0 c_{44}^1 c_{55}^{-2} c_{55}^1 \\
&\quad - 20\sqrt{15}c_{42}^0 c_{44}^1 c_{55}^{-3} c_{55}^2 + 42\sqrt{5}c_{42}^0 c_{44}^1 c_{55}^{-4} c_{55}^3 - 90c_{42}^0 c_{44}^1 c_{55}^{-5} c_{55}^4 + 30\sqrt{2}c_{42}^0 c_{44}^0 (c_{55}^0)^2 \\
&\quad - 54\sqrt{2}c_{42}^0 c_{44}^0 c_{55}^{-1} c_{55}^1 + 36\sqrt{2}c_{42}^0 c_{44}^0 c_{55}^{-2} c_{55}^2 - 6\sqrt{2}c_{42}^0 c_{44}^0 c_{55}^{-3} c_{55}^3 - 36\sqrt{2}c_{42}^0 c_{44}^0 c_{55}^{-4} c_{55}^4 \\
&\quad + 90\sqrt{2}c_{42}^0 c_{44}^0 c_{55}^{-5} c_{55}^5 - 10\sqrt{3}c_{42}^0 c_{44}^{-1} c_{55}^0 c_{55}^1 + 6\sqrt{70}c_{42}^0 c_{44}^{-1} c_{55}^{-1} c_{55}^2 \\
&\quad - 20\sqrt{15}c_{42}^0 c_{44}^{-1} c_{55}^{-3} c_{55}^3 + 42\sqrt{5}c_{42}^0 c_{44}^{-1} c_{55}^{-4} c_{55}^4 - 90c_{42}^0 c_{44}^{-1} c_{55}^{-5} c_{55}^5 + 15\sqrt{5}c_{42}^0 c_{44}^{-2} (c_{55}^1)^2 \\
&\quad - 10\sqrt{42}c_{42}^0 c_{44}^{-2} c_{55}^0 c_{55}^2 + 4\sqrt{210}c_{42}^0 c_{44}^{-2} c_{55}^{-1} c_{55}^3 - 12\sqrt{15}c_{42}^0 c_{44}^{-2} c_{55}^{-2} c_{55}^4 \\
&\quad + 30c_{42}^0 c_{44}^{-2} c_{55}^{-3} c_{55}^5 - 5\sqrt{105}c_{42}^{-1} c_{44}^3 (c_{55}^{-1})^2 + 70\sqrt{2}c_{42}^{-1} c_{44}^3 c_{55}^{-2} c_{55}^0 - 28\sqrt{10}c_{42}^{-1} c_{44}^3 c_{55}^{-3} c_{55}^1 \\
&\quad + 12\sqrt{35}c_{42}^{-1} c_{44}^3 c_{55}^{-4} c_{55}^2 - 10\sqrt{21}c_{42}^{-1} c_{44}^3 c_{55}^{-5} c_{55}^3 + 20c_{42}^{-1} c_{44}^2 c_{55}^{-1} c_{55}^0 \\
&\quad - 4\sqrt{210}c_{42}^{-1} c_{44}^2 c_{55}^{-2} c_{55}^1 + 40\sqrt{5}c_{42}^{-1} c_{44}^2 c_{55}^{-3} c_{55}^2 - 28\sqrt{15}c_{42}^{-1} c_{44}^2 c_{55}^{-4} c_{55}^3 \\
&\quad + 60\sqrt{3}c_{42}^{-1} c_{44}^2 c_{55}^{-5} c_{55}^4 - 10\sqrt{15}c_{42}^{-1} c_{44}^1 (c_{55}^0)^2 + 18\sqrt{15}c_{42}^{-1} c_{44}^1 c_{55}^{-1} c_{55}^1 \\
&\quad - 12\sqrt{15}c_{42}^{-1} c_{44}^1 c_{55}^{-2} c_{55}^2 + 2\sqrt{15}c_{42}^{-1} c_{44}^1 c_{55}^{-3} c_{55}^3 + 12\sqrt{15}c_{42}^{-1} c_{44}^1 c_{55}^{-4} c_{55}^4 \\
&\quad - 30\sqrt{15}c_{42}^{-1} c_{44}^1 c_{55}^{-5} c_{55}^5 + 4\sqrt{10}c_{42}^{-1} c_{44}^0 c_{55}^0 c_{55}^1 - 8\sqrt{21}c_{42}^{-1} c_{44}^0 c_{55}^{-1} c_{55}^2 \\
&\quad + 40\sqrt{2}c_{42}^{-1} c_{44}^0 c_{55}^{-2} c_{55}^3 - 28\sqrt{6}c_{42}^{-1} c_{44}^0 c_{55}^{-3} c_{55}^4 + 12\sqrt{30}c_{42}^{-1} c_{44}^0 c_{55}^{-4} c_{55}^5 \\
&\quad - 5\sqrt{15}c_{42}^{-1} c_{44}^{-1} (c_{55}^1)^2 + 10\sqrt{14}c_{42}^{-1} c_{44}^{-1} c_{55}^0 c_{55}^2 - 4\sqrt{70}c_{42}^{-1} c_{44}^{-1} c_{55}^{-1} c_{55}^3 \\
&\quad + 12\sqrt{5}c_{42}^{-1} c_{44}^{-1} c_{55}^{-2} c_{55}^4 - 10\sqrt{3}c_{42}^{-1} c_{44}^{-1} c_{55}^{-3} c_{55}^5 + 5\sqrt{210}c_{42}^{-2} c_{44}^4 (c_{55}^{-1})^2 - 140c_{42}^{-2} c_{44}^4 c_{55}^{-2} c_{55}^0 \\
&\quad + 56\sqrt{5}c_{42}^{-2} c_{44}^4 c_{55}^{-3} c_{55}^1 - 12\sqrt{70}c_{42}^{-2} c_{44}^4 c_{55}^{-4} c_{55}^2 + 10\sqrt{42}c_{42}^{-2} c_{44}^4 c_{55}^{-5} c_{55}^3 \\
&\quad - 5\sqrt{14}c_{42}^{-2} c_{44}^3 c_{55}^{-1} c_{55}^0 + 14\sqrt{15}c_{42}^{-2} c_{44}^3 c_{55}^{-2} c_{55}^1 - 10\sqrt{70}c_{42}^{-2} c_{44}^3 c_{55}^{-3} c_{55}^2 \\
&\quad + 7\sqrt{210}c_{42}^{-2} c_{44}^3 c_{55}^{-4} c_{55}^3 - 15\sqrt{42}c_{42}^{-2} c_{44}^3 c_{55}^{-5} c_{55}^4 + 5\sqrt{30}c_{42}^{-2} c_{44}^2 (c_{55}^0)^2 \\
&\quad - 9\sqrt{30}c_{42}^{-2} c_{44}^2 c_{55}^{-1} c_{55}^1 + 6\sqrt{30}c_{42}^{-2} c_{44}^2 c_{55}^{-2} c_{55}^2 - \sqrt{30}c_{42}^{-2} c_{44}^2 c_{55}^{-3} c_{55}^3 - 6\sqrt{30}c_{42}^{-2} c_{44}^2 c_{55}^{-4} c_{55}^4 \\
&\quad + 15\sqrt{30}c_{42}^{-2} c_{44}^2 c_{55}^{-5} c_{55}^5 - 5\sqrt{2}c_{42}^{-2} c_{44}^1 c_{55}^0 c_{55}^1 + 2\sqrt{105}c_{42}^{-2} c_{44}^1 c_{55}^{-1} c_{55}^2 \\
&\quad - 10\sqrt{10}c_{42}^{-2} c_{44}^1 c_{55}^{-2} c_{55}^3 + 7\sqrt{30}c_{42}^{-2} c_{44}^1 c_{55}^{-3} c_{55}^4 - 15\sqrt{6}c_{42}^{-2} c_{44}^1 c_{55}^{-4} c_{55}^5 + 5\sqrt{3}c_{42}^{-2} c_{44}^0 (c_{55}^1)^2 \\
&\quad - 2\sqrt{70}c_{42}^{-2} c_{44}^0 c_{55}^0 c_{55}^2 + 4\sqrt{14}c_{42}^{-2} c_{44}^0 c_{55}^{-1} c_{55}^3 - 12c_{42}^{-2} c_{44}^0 c_{55}^{-2} c_{55}^4 \\
&\quad + 2\sqrt{15}c_{42}^{-2} c_{44}^0 c_{55}^{-3} c_{55}^5)/(c_{00}^0)^{10}
\end{aligned}$$

$$
\begin{aligned}
\Phi_{73} \;=\; & c_5(5,5)_2 c_4(2,2)_2 = \sqrt{\frac{1}{15015}}\,\big(-15(c_{42}^1)^2(c_{55}^{-1})^2 + 2\sqrt{210}(c_{42}^1)^2 c_{55}^{-2} c_{55}^0 \\
& -4\sqrt{42}(c_{42}^1)^2 c_{55}^{-3} c_{55}^1 + 12\sqrt{3}(c_{42}^1)^2 c_{55}^{-4} c_{55}^2 - 6\sqrt{5}(c_{42}^1)^2 c_{55}^{-5} c_{55}^3 + 10\sqrt{6}c_{42}^0 c_{42}^2(c_{55}^{-1})^2 \\
& -8\sqrt{35}c_{42}^0 c_{42}^2 c_{55}^{-2} c_{55}^0 + 16\sqrt{7}c_{42}^0 c_{42}^2 c_{55}^{-3} c_{55}^1 - 24\sqrt{2}c_{42}^0 c_{42}^2 c_{55}^{-4} c_{55}^2 \\
& +4\sqrt{30}c_{42}^0 c_{42}^2 c_{55}^{-5} c_{55}^3 + 2\sqrt{5}c_{42}^0 c_{42}^1 c_{55}^{-1} c_{55}^0 - 2\sqrt{42}c_{42}^0 c_{42}^1 c_{55}^{-2} c_{55}^1 + 20 c_{42}^0 c_{42}^1 c_{55}^{-3} c_{55}^2 \\
& -14\sqrt{3}c_{42}^0 c_{42}^1 c_{55}^{-4} c_{55}^3 + 6\sqrt{15}c_{42}^0 c_{42}^1 c_{55}^{-5} c_{55}^4 - 10(c_{42}^0)^2(c_{55}^0)^2 + 18(c_{42}^0)^2 c_{55}^{-1} c_{55}^1 \\
& -12(c_{42}^0)^2 c_{55}^{-2} c_{55}^2 + 2(c_{42}^0)^2 c_{55}^{-3} c_{55}^3 + 12(c_{42}^0)^2 c_{55}^{-4} c_{55}^4 - 30(c_{42}^0)^2 c_{55}^{-5} c_{55}^5 \\
& -2\sqrt{30}c_{42}^{-1} c_{42}^2 c_{55}^{-1} c_{55}^0 + 12\sqrt{7}c_{42}^{-1} c_{42}^2 c_{55}^{-2} c_{55}^1 - 20\sqrt{6}c_{42}^{-1} c_{42}^2 c_{55}^{-3} c_{55}^2 \\
& +42\sqrt{2}c_{42}^{-1} c_{42}^2 c_{55}^{-4} c_{55}^3 - 18\sqrt{10}c_{42}^{-1} c_{42}^2 c_{55}^{-5} c_{55}^4 + 10c_{42}^{-1} c_{42}^1(c_{55}^0)^2 - 18c_{42}^{-1} c_{42}^1 c_{55}^{-1} c_{55}^1 \\
& +12c_{42}^{-1} c_{42}^1 c_{55}^{-2} c_{55}^2 - 2c_{42}^{-1} c_{42}^1 c_{55}^{-3} c_{55}^3 - 12c_{42}^{-1} c_{42}^1 c_{55}^{-4} c_{55}^4 + 30c_{42}^{-1} c_{42}^1 c_{55}^{-5} c_{55}^5 \\
& +2\sqrt{5}c_{42}^{-1} c_{42}^0 c_{55}^0 c_{55}^1 - 2\sqrt{42}c_{42}^{-1} c_{42}^0 c_{55}^{-1} c_{55}^2 + 20c_{42}^{-1} c_{42}^0 c_{55}^{-2} c_{55}^3 - 14\sqrt{3}c_{42}^{-1} c_{42}^0 c_{55}^{-3} c_{55}^4 \\
& +6\sqrt{15}c_{42}^{-1} c_{42}^0 c_{55}^{-4} c_{55}^5 - 15(c_{42}^{-1})^2(c_{55}^1)^2 + 2\sqrt{210}(c_{42}^{-1})^2 c_{55}^0 c_{55}^2 - 4\sqrt{42}(c_{42}^{-1})^2 c_{55}^{-1} c_{55}^3 \\
& +12\sqrt{3}(c_{42}^{-1})^2 c_{55}^{-2} c_{55}^4 - 6\sqrt{5}(c_{42}^{-1})^2 c_{55}^{-3} c_{55}^5 + 20c_{42}^{-2} c_{42}^2(c_{55}^0)^2 - 36c_{42}^{-2} c_{42}^2 c_{55}^{-1} c_{55}^1 \\
& +24c_{42}^{-2} c_{42}^2 c_{55}^{-2} c_{55}^2 - 4c_{42}^{-2} c_{42}^2 c_{55}^{-3} c_{55}^3 - 24c_{42}^{-2} c_{42}^2 c_{55}^{-4} c_{55}^4 + 60c_{42}^{-2} c_{42}^2 c_{55}^{-5} c_{55}^5 \\
& -2\sqrt{30}c_{42}^{-2} c_{42}^1 c_{55}^0 c_{55}^1 + 12\sqrt{7}c_{42}^{-2} c_{42}^1 c_{55}^{-1} c_{55}^2 - 20\sqrt{6}c_{42}^{-2} c_{42}^1 c_{55}^{-2} c_{55}^3 \\
& +42\sqrt{2}c_{42}^{-2} c_{42}^1 c_{55}^{-3} c_{55}^4 - 18\sqrt{10}c_{42}^{-2} c_{42}^1 c_{55}^{-4} c_{55}^5 + 10\sqrt{6}c_{42}^{-2} c_{42}^0(c_{55}^1)^2 \\
& -8\sqrt{35}c_{42}^{-2} c_{42}^0 c_{55}^0 c_{55}^2 + 16\sqrt{7}c_{42}^{-2} c_{42}^0 c_{55}^{-1} c_{55}^3 - 24\sqrt{2}c_{42}^{-2} c_{42}^0 c_{55}^{-2} c_{55}^4 \\
& +4\sqrt{30}c_{42}^{-2} c_{42}^0 c_{55}^{-3} c_{55}^5\big)/(c_{00}^0)^{10}
\end{aligned}
$$

$$
\begin{aligned}
\Phi_{74} = {}& c_5(5,3)_2 c_4(4,2)_2 = \frac{1}{42}\sqrt{\frac{1}{165}}(\sqrt{210}c_{42}^2 c_{44}^0 c_{53}^3 c_{55}^{-5} - 3\sqrt{14}c_{42}^2 c_{44}^0 c_{53}^2 c_{55}^{-4} \\
& + \sqrt{70}c_{42}^2 c_{44}^0 c_{53}^1 c_{55}^{-3} - \sqrt{35}c_{42}^2 c_{44}^0 c_{53}^0 c_{55}^{-2} + \sqrt{15}c_{42}^2 c_{44}^0 c_{53}^{-1} c_{55}^{-1} - \sqrt{5}c_{42}^2 c_{44}^0 c_{53}^{-2} c_{55}^0 \\
& + c_{42}^2 c_{44}^0 c_{53}^{-3} c_{55}^1 - 2\sqrt{105}c_{42}^2 c_{44}^{-1} c_{53}^3 c_{55}^{-4} + 4\sqrt{35}c_{42}^2 c_{44}^{-1} c_{53}^2 c_{55}^{-3} - 5\sqrt{21}c_{42}^2 c_{44}^{-1} c_{53}^1 c_{55}^{-2} \\
& + 20c_{42}^2 c_{44}^{-1} c_{53}^0 c_{55}^{-1} - 5\sqrt{10}c_{42}^2 c_{44}^{-1} c_{53}^{-1} c_{55}^0 + 2\sqrt{30}c_{42}^2 c_{44}^{-1} c_{53}^{-2} c_{55}^1 - \sqrt{35}c_{42}^2 c_{44}^{-1} c_{53}^{-3} c_{55}^2 \\
& + 2\sqrt{105}c_{42}^2 c_{44}^{-2} c_{53}^3 c_{55}^{-3} - 3\sqrt{105}c_{42}^2 c_{44}^{-2} c_{53}^2 c_{55}^{-2} + 15\sqrt{6}c_{42}^2 c_{44}^{-2} c_{53}^1 c_{55}^{-1} \\
& - 10\sqrt{15}c_{42}^2 c_{44}^{-2} c_{53}^0 c_{55}^0 + 15\sqrt{6}c_{42}^2 c_{44}^{-2} c_{53}^{-1} c_{55}^1 - 3\sqrt{105}c_{42}^2 c_{44}^{-2} c_{53}^{-2} c_{55}^2 \\
& + 2\sqrt{105}c_{42}^2 c_{44}^{-2} c_{53}^{-3} c_{55}^3 - 7\sqrt{5}c_{42}^2 c_{44}^{-3} c_{53}^3 c_{55}^{-2} + 2\sqrt{210}c_{42}^2 c_{44}^{-3} c_{53}^2 c_{55}^{-1} \\
& - 5\sqrt{70}c_{42}^2 c_{44}^{-3} c_{53}^1 c_{55}^0 + 20\sqrt{7}c_{42}^2 c_{44}^{-3} c_{53}^0 c_{55}^1 - 35\sqrt{3}c_{42}^2 c_{44}^{-3} c_{53}^{-1} c_{55}^2 \\
& + 28\sqrt{5}c_{42}^2 c_{44}^{-3} c_{53}^{-2} c_{55}^3 - 14\sqrt{15}c_{42}^2 c_{44}^{-3} c_{53}^{-3} c_{55}^4 + \sqrt{70}c_{42}^2 c_{44}^{-4} c_{53}^3 c_{55}^{-1} \\
& - 5\sqrt{14}c_{42}^2 c_{44}^{-4} c_{53}^2 c_{55}^0 + 5\sqrt{42}c_{42}^2 c_{44}^{-4} c_{53}^1 c_{55}^1 - 35\sqrt{2}c_{42}^2 c_{44}^{-4} c_{53}^0 c_{55}^2 + 70c_{42}^2 c_{44}^{-4} c_{53}^{-1} c_{55}^3 \\
& - 42\sqrt{5}c_{42}^2 c_{44}^{-4} c_{53}^{-2} c_{55}^4 + 70\sqrt{3}c_{42}^2 c_{44}^{-4} c_{53}^{-3} c_{55}^5 - 5\sqrt{42}c_{42}^1 c_{44}^1 c_{53}^3 c_{55}^{-5} \\
& + 3\sqrt{70}c_{42}^1 c_{44}^1 c_{53}^2 c_{55}^{-4} - 5\sqrt{14}c_{42}^1 c_{44}^1 c_{53}^1 c_{55}^{-3} + 5\sqrt{7}c_{42}^1 c_{44}^1 c_{53}^0 c_{55}^{-2} - 5\sqrt{3}c_{42}^1 c_{44}^1 c_{53}^{-1} c_{55}^{-1} \\
& + 5c_{42}^1 c_{44}^1 c_{53}^{-2} c_{55}^0 - \sqrt{5}c_{42}^1 c_{44}^1 c_{53}^{-3} c_{55}^1 + 8\sqrt{21}c_{42}^1 c_{44}^0 c_{53}^3 c_{55}^{-4} - 16\sqrt{7}c_{42}^1 c_{44}^0 c_{53}^2 c_{55}^{-3} \\
& + 4\sqrt{105}c_{42}^1 c_{44}^0 c_{53}^1 c_{55}^{-2} - 16\sqrt{5}c_{42}^1 c_{44}^0 c_{53}^0 c_{55}^{-1} + 20\sqrt{2}c_{42}^1 c_{44}^0 c_{53}^{-1} c_{55}^0 \\
& - 8\sqrt{6}c_{42}^1 c_{44}^0 c_{53}^{-2} c_{55}^1 + 4\sqrt{7}c_{42}^1 c_{44}^0 c_{53}^{-3} c_{55}^2 - 2\sqrt{210}c_{42}^1 c_{44}^{-1} c_{53}^3 c_{55}^{-3} \\
& + 3\sqrt{210}c_{42}^1 c_{44}^{-1} c_{53}^2 c_{55}^{-2} - 30\sqrt{3}c_{42}^1 c_{44}^{-1} c_{53}^1 c_{55}^{-1} + 10\sqrt{30}c_{42}^1 c_{44}^{-1} c_{53}^0 c_{55}^0 \\
& - 30\sqrt{3}c_{42}^1 c_{44}^{-1} c_{53}^{-1} c_{55}^1 + 3\sqrt{210}c_{42}^1 c_{44}^{-1} c_{53}^{-2} c_{55}^2 - 2\sqrt{210}c_{42}^1 c_{44}^{-1} c_{53}^{-3} c_{55}^3 \\
& + 2\sqrt{70}c_{42}^1 c_{44}^{-2} c_{53}^3 c_{55}^{-2} - 8\sqrt{15}c_{42}^1 c_{44}^{-2} c_{53}^2 c_{55}^{-1} + 20\sqrt{5}c_{42}^1 c_{44}^{-2} c_{53}^1 c_{55}^0 \\
& - 40\sqrt{2}c_{42}^1 c_{44}^{-2} c_{53}^0 c_{55}^1 + 10\sqrt{42}c_{42}^1 c_{44}^{-2} c_{53}^{-1} c_{55}^2 - 8\sqrt{70}c_{42}^1 c_{44}^{-2} c_{53}^{-2} c_{55}^3 \\
& + 4\sqrt{210}c_{42}^1 c_{44}^{-2} c_{53}^{-3} c_{55}^4 - \sqrt{35}c_{42}^1 c_{44}^{-3} c_{53}^3 c_{55}^{-1} + 5\sqrt{7}c_{42}^1 c_{44}^{-3} c_{53}^2 c_{55}^0 - 5\sqrt{21}c_{42}^1 c_{44}^{-3} c_{53}^1 c_{55}^1 \\
& + 35c_{42}^1 c_{44}^{-3} c_{53}^0 c_{55}^2 - 35\sqrt{2}c_{42}^1 c_{44}^{-3} c_{53}^{-1} c_{55}^3 + 21\sqrt{10}c_{42}^1 c_{44}^{-3} c_{53}^{-2} c_{55}^4 - 35\sqrt{6}c_{42}^1 c_{44}^{-3} c_{53}^{-3} c_{55}^5 \\
& + 15\sqrt{14}c_{42}^0 c_{44}^2 c_{53}^3 c_{55}^{-5} - 3\sqrt{210}c_{42}^0 c_{44}^2 c_{53}^2 c_{55}^{-4} + 5\sqrt{42}c_{42}^0 c_{44}^2 c_{53}^1 c_{55}^{-3} \\
& - 5\sqrt{21}c_{42}^0 c_{44}^2 c_{53}^0 c_{55}^{-2} + 15c_{42}^0 c_{44}^2 c_{53}^{-1} c_{55}^{-1} - 5\sqrt{3}c_{42}^0 c_{44}^2 c_{53}^{-2} c_{55}^0 + \sqrt{15}c_{42}^0 c_{44}^2 c_{53}^{-3} c_{55}^1 \\
& - 6\sqrt{70}c_{42}^0 c_{44}^1 c_{53}^3 c_{55}^{-4} + 4\sqrt{210}c_{42}^0 c_{44}^1 c_{53}^2 c_{55}^{-3} - 15\sqrt{14}c_{42}^0 c_{44}^1 c_{53}^1 c_{55}^{-2} \\
& + 20\sqrt{6}c_{42}^0 c_{44}^1 c_{53}^0 c_{55}^{-1} - 10\sqrt{15}c_{42}^0 c_{44}^1 c_{53}^{-1} c_{55}^0 + 12\sqrt{5}c_{42}^0 c_{44}^1 c_{53}^{-2} c_{55}^1 \\
& - \sqrt{210}c_{42}^0 c_{44}^1 c_{53}^{-3} c_{55}^2 + 12\sqrt{7}c_{42}^0 c_{44}^0 c_{53}^3 c_{55}^{-3} - 18\sqrt{7}c_{42}^0 c_{44}^0 c_{53}^2 c_{55}^{-2} \\
& + 18\sqrt{10}c_{42}^0 c_{44}^0 c_{53}^1 c_{55}^{-1} - 60c_{42}^0 c_{44}^0 c_{53}^0 c_{55}^0 + 18\sqrt{10}c_{42}^0 c_{44}^0 c_{53}^{-1} c_{55}^1 \\
& - 18\sqrt{7}c_{42}^0 c_{44}^0 c_{53}^{-2} c_{55}^2 + 12\sqrt{7}c_{42}^0 c_{44}^0 c_{53}^{-3} c_{55}^3 - \sqrt{210}c_{42}^0 c_{44}^{-1} c_{53}^3 c_{55}^{-2} \\
& + 12\sqrt{5}c_{42}^0 c_{44}^{-1} c_{53}^2 c_{55}^{-1} - 10\sqrt{15}c_{42}^0 c_{44}^{-1} c_{53}^1 c_{55}^0 + 20\sqrt{6}c_{42}^0 c_{44}^{-1} c_{53}^0 c_{55}^1 \\
& - 15\sqrt{14}c_{42}^0 c_{44}^{-1} c_{53}^{-1} c_{55}^2 + 4\sqrt{210}c_{42}^0 c_{44}^{-1} c_{53}^{-2} c_{55}^3 - 6\sqrt{70}c_{42}^0 c_{44}^{-1} c_{53}^{-3} c_{55}^4 \\
& + \sqrt{15}c_{42}^0 c_{44}^{-2} c_{53}^3 c_{55}^{-1} - 5\sqrt{3}c_{42}^0 c_{44}^{-2} c_{53}^2 c_{55}^0 + 15c_{42}^0 c_{44}^{-2} c_{53}^1 c_{55}^1 - 5\sqrt{21}c_{42}^0 c_{44}^{-2} c_{53}^0 c_{55}^2 \\
& + 5\sqrt{42}c_{42}^0 c_{44}^{-2} c_{53}^{-1} c_{55}^3 - 3\sqrt{210}c_{42}^0 c_{44}^{-2} c_{53}^{-2} c_{55}^4 + 15\sqrt{14}c_{42}^0 c_{44}^{-2} c_{53}^{-3} c_{55}^5 \\
& - 35\sqrt{6}c_{42}^{-1} c_{44}^3 c_{53}^3 c_{55}^{-5} + 21\sqrt{10}c_{42}^{-1} c_{44}^3 c_{53}^2 c_{55}^{-4} - 35\sqrt{2}c_{42}^{-1} c_{44}^3 c_{53}^1 c_{55}^{-3} + 35c_{42}^{-1} c_{44}^3 c_{53}^0 c_{55}^{-2} \\
& - 5\sqrt{21}c_{42}^{-1} c_{44}^3 c_{53}^{-1} c_{55}^{-1} + 5\sqrt{7}c_{42}^{-1} c_{44}^3 c_{53}^{-2} c_{55}^0 - \sqrt{35}c_{42}^{-1} c_{44}^3 c_{53}^{-3} c_{55}^1 + 4\sqrt{210}c_{42}^{-1} c_{44}^2 c_{53}^3 c_{55}^{-4} \\
& - 8\sqrt{70}c_{42}^{-1} c_{44}^2 c_{53}^2 c_{55}^{-3} + 10\sqrt{42}c_{42}^{-1} c_{44}^2 c_{53}^1 c_{55}^{-2} - 40\sqrt{2}c_{42}^{-1} c_{44}^2 c_{53}^0 c_{55}^{-1} \\
& + 20\sqrt{5}c_{42}^{-1} c_{44}^2 c_{53}^{-1} c_{55}^0 - 8\sqrt{15}c_{42}^{-1} c_{44}^2 c_{53}^{-2} c_{55}^1 + 2\sqrt{70}c_{42}^{-1} c_{44}^2 c_{53}^{-3} c_{55}^2 \\
& - 2\sqrt{210}c_{42}^{-1} c_{44}^1 c_{53}^3 c_{55}^{-3} + 3\sqrt{210}c_{42}^{-1} c_{44}^1 c_{53}^2 c_{55}^{-2} - 30\sqrt{3}c_{42}^{-1} c_{44}^1 c_{53}^1 c_{55}^{-1} \\
& + 10\sqrt{30}c_{42}^{-1} c_{44}^1 c_{53}^0 c_{55}^0 - 30\sqrt{3}c_{42}^{-1} c_{44}^1 c_{53}^{-1} c_{55}^1 + 3\sqrt{210}c_{42}^{-1} c_{44}^1 c_{53}^{-2} c_{55}^2 \\
& - 2\sqrt{210}c_{42}^{-1} c_{44}^1 c_{53}^{-3} c_{55}^3 + 4\sqrt{7}c_{42}^{-1} c_{44}^0 c_{53}^3 c_{55}^{-2} - 8\sqrt{6}c_{42}^{-1} c_{44}^0 c_{53}^2 c_{55}^{-1} + 20\sqrt{2}c_{42}^{-1} c_{44}^0 c_{53}^1 c_{55}^0 \\
& - 16\sqrt{5}c_{42}^{-1} c_{44}^0 c_{53}^0 c_{55}^1 + 4\sqrt{105}c_{42}^{-1} c_{44}^0 c_{53}^{-1} c_{55}^2 - 16\sqrt{7}c_{42}^{-1} c_{44}^0 c_{53}^{-2} c_{55}^3 \\
& + 8\sqrt{21}c_{42}^{-1} c_{44}^0 c_{53}^{-3} c_{55}^4 - \sqrt{5}c_{42}^{-1} c_{44}^{-1} c_{53}^3 c_{55}^{-1} + 5c_{42}^{-1} c_{44}^{-1} c_{53}^2 c_{55}^0 - 5\sqrt{3}c_{42}^{-1} c_{44}^{-1} c_{53}^1 c_{55}^1 \\
& + 5\sqrt{7}c_{42}^{-1} c_{44}^{-1} c_{53}^0 c_{55}^2 - 5\sqrt{14}c_{42}^{-1} c_{44}^{-1} c_{53}^{-1} c_{55}^3 + 3\sqrt{70}c_{42}^{-1} c_{44}^{-1} c_{53}^{-2} c_{55}^4 - 5\sqrt{42}c_{42}^{-1} c_{44}^{-1} c_{53}^{-3} c_{55}^5 \\
& + 70\sqrt{3}c_{42}^{-2} c_{44}^4 c_{53}^3 c_{55}^{-5} - 42\sqrt{5}c_{42}^{-2} c_{44}^4 c_{53}^2 c_{55}^{-4} + 70c_{42}^{-2} c_{44}^4 c_{53}^1 c_{55}^{-3} - 35\sqrt{2}c_{42}^{-2} c_{44}^4 c_{53}^0 c_{55}^{-2}
\end{aligned}
$$

$$+5\sqrt{42}c_{42}^{-2}c_{44}^{4}c_{53}^{-1}c_{55}^{-1} - 5\sqrt{14}c_{42}^{-2}c_{44}^{4}c_{53}^{-2}c_{55}^{0} + \sqrt{70}c_{42}^{-2}c_{44}^{4}c_{53}^{-3}c_{55}^{1}$$
$$-14\sqrt{15}c_{42}^{-2}c_{44}^{3}c_{53}^{3}c_{55}^{-4} + 28\sqrt{5}c_{42}^{-2}c_{44}^{3}c_{53}^{2}c_{55}^{-3} - 35\sqrt{3}c_{42}^{-2}c_{44}^{3}c_{53}^{1}c_{55}^{-2}$$
$$+20\sqrt{7}c_{42}^{-2}c_{44}^{3}c_{53}^{0}c_{55}^{-1} - 5\sqrt{70}c_{42}^{-2}c_{44}^{3}c_{53}^{-1}c_{55}^{0} + 2\sqrt{210}c_{42}^{-2}c_{44}^{3}c_{53}^{-2}c_{55}^{1}$$
$$-7\sqrt{5}c_{42}^{-2}c_{44}^{3}c_{53}^{-3}c_{55}^{2} + 2\sqrt{105}c_{42}^{-2}c_{44}^{2}c_{53}^{3}c_{55}^{-3} - 3\sqrt{105}c_{42}^{-2}c_{44}^{2}c_{53}^{2}c_{55}^{-2}$$
$$+15\sqrt{6}c_{42}^{-2}c_{44}^{2}c_{53}^{1}c_{55}^{-1} - 10\sqrt{15}c_{42}^{-2}c_{44}^{2}c_{53}^{0}c_{55}^{0} + 15\sqrt{6}c_{42}^{-2}c_{44}^{2}c_{53}^{-1}c_{55}^{1}$$
$$-3\sqrt{105}c_{42}^{-2}c_{44}^{2}c_{53}^{-2}c_{55}^{2} + 2\sqrt{105}c_{42}^{-2}c_{44}^{2}c_{53}^{-3}c_{55}^{3} - \sqrt{35}c_{42}^{-2}c_{44}^{1}c_{53}^{3}c_{55}^{-2}$$
$$+2\sqrt{30}c_{42}^{-2}c_{44}^{1}c_{53}^{2}c_{55}^{-1} - 5\sqrt{10}c_{42}^{-2}c_{44}^{1}c_{53}^{1}c_{55}^{0} + 20c_{42}^{-2}c_{44}^{1}c_{53}^{0}c_{55}^{1} - 5\sqrt{21}c_{42}^{-2}c_{44}^{1}c_{53}^{-1}c_{55}^{2}$$
$$+4\sqrt{35}c_{42}^{-2}c_{44}^{1}c_{53}^{-2}c_{55}^{3} - 2\sqrt{105}c_{42}^{-2}c_{44}^{1}c_{53}^{-3}c_{55}^{4} + c_{42}^{-2}c_{44}^{0}c_{53}^{3}c_{55}^{-3} - \sqrt{5}c_{42}^{-2}c_{44}^{0}c_{53}^{2}c_{55}^{0}$$
$$+\sqrt{15}c_{42}^{-2}c_{44}^{0}c_{53}^{1}c_{55}^{1} - \sqrt{35}c_{42}^{-2}c_{44}^{0}c_{53}^{0}c_{55}^{2} + \sqrt{70}c_{42}^{-2}c_{44}^{0}c_{53}^{-1}c_{55}^{3} - 3\sqrt{14}c_{42}^{-2}c_{44}^{0}c_{53}^{-2}c_{55}^{4}$$
$$+\sqrt{210}c_{42}^{-2}c_{44}^{0}c_{53}^{-3}c_{55}^{5})/(c_{00}^{0})^{10}$$

$$\Phi_{75} = c_5(5,3)_2 c_4(2,2)_2 = \frac{1}{7}\sqrt{\frac{1}{330}}(-3\sqrt{70}(c_{42}^{1})^{2}c_{53}^{3}c_{55}^{-5} + 3\sqrt{42}(c_{42}^{1})^{2}c_{53}^{2}c_{55}^{-4}$$
$$-\sqrt{210}(c_{42}^{1})^{2}c_{53}^{1}c_{55}^{-3} + \sqrt{105}(c_{42}^{1})^{2}c_{53}^{0}c_{55}^{-2} - 3\sqrt{5}(c_{42}^{1})^{2}c_{53}^{-1}c_{55}^{-1} + \sqrt{15}(c_{42}^{1})^{2}c_{53}^{-2}c_{55}^{0}$$
$$-\sqrt{3}(c_{42}^{1})^{2}c_{53}^{-3}c_{55}^{1} + 4\sqrt{105}c_{42}^{0}c_{42}^{2}c_{53}^{3}c_{55}^{-5} - 12\sqrt{7}c_{42}^{0}c_{42}^{2}c_{53}^{2}c_{55}^{-4} + 4\sqrt{35}c_{42}^{0}c_{42}^{2}c_{53}^{1}c_{55}^{-3}$$
$$-2\sqrt{70}c_{42}^{0}c_{42}^{2}c_{53}^{0}c_{55}^{-2} + 2\sqrt{30}c_{42}^{0}c_{42}^{2}c_{53}^{-1}c_{55}^{-1} - 2\sqrt{10}c_{42}^{0}c_{42}^{2}c_{53}^{-2}c_{55}^{0} + 2\sqrt{2}c_{42}^{0}c_{42}^{2}c_{53}^{-3}c_{55}^{1}$$
$$+2\sqrt{42}c_{42}^{0}c_{42}^{1}c_{53}^{3}c_{55}^{-4} - 4\sqrt{14}c_{42}^{0}c_{42}^{1}c_{53}^{2}c_{55}^{-3} + \sqrt{210}c_{42}^{0}c_{42}^{1}c_{53}^{1}c_{55}^{-2}$$
$$-4\sqrt{10}c_{42}^{0}c_{42}^{1}c_{53}^{0}c_{55}^{-1} + 10c_{42}^{0}c_{42}^{1}c_{53}^{-1}c_{55}^{0} - 4\sqrt{3}c_{42}^{0}c_{42}^{1}c_{53}^{-2}c_{55}^{1} + \sqrt{14}c_{42}^{0}c_{42}^{1}c_{53}^{-3}c_{55}^{2}$$
$$-2\sqrt{14}(c_{42}^{0})^{2}c_{53}^{3}c_{55}^{-3} + 3\sqrt{14}(c_{42}^{0})^{2}c_{53}^{2}c_{55}^{-2} - 6\sqrt{5}(c_{42}^{0})^{2}c_{53}^{1}c_{55}^{-1} + 10\sqrt{2}(c_{42}^{0})^{2}c_{53}^{0}c_{55}^{0}$$
$$-6\sqrt{5}(c_{42}^{0})^{2}c_{53}^{-1}c_{55}^{1} + 3\sqrt{14}(c_{42}^{0})^{2}c_{53}^{-2}c_{55}^{2} - 2\sqrt{14}(c_{42}^{0})^{2}c_{53}^{-3}c_{55}^{3} - 12\sqrt{7}c_{42}^{-1}c_{42}^{2}c_{53}^{3}c_{55}^{-4}$$
$$+8\sqrt{21}c_{42}^{-1}c_{42}^{2}c_{53}^{2}c_{55}^{-3} - 6\sqrt{35}c_{42}^{-1}c_{42}^{2}c_{53}^{1}c_{55}^{-2} + 8\sqrt{15}c_{42}^{-1}c_{42}^{2}c_{53}^{0}c_{55}^{-1}$$
$$-10\sqrt{6}c_{42}^{-1}c_{42}^{2}c_{53}^{-1}c_{55}^{0} + 12\sqrt{2}c_{42}^{-1}c_{42}^{2}c_{53}^{-2}c_{55}^{1} - 2\sqrt{21}c_{42}^{-1}c_{42}^{2}c_{53}^{-3}c_{55}^{2}$$
$$+2\sqrt{14}c_{42}^{-1}c_{42}^{1}c_{53}^{3}c_{55}^{-3} - 3\sqrt{14}c_{42}^{-1}c_{42}^{1}c_{53}^{2}c_{55}^{-2} + 6\sqrt{5}c_{42}^{-1}c_{42}^{1}c_{53}^{1}c_{55}^{-1} - 10\sqrt{2}c_{42}^{-1}c_{42}^{1}c_{53}^{0}c_{55}^{0}$$
$$+6\sqrt{5}c_{42}^{-1}c_{42}^{1}c_{53}^{-1}c_{55}^{1} - 3\sqrt{14}c_{42}^{-1}c_{42}^{1}c_{53}^{-2}c_{55}^{2} + 2\sqrt{14}c_{42}^{-1}c_{42}^{1}c_{53}^{-3}c_{55}^{3} + \sqrt{14}c_{42}^{-1}c_{42}^{0}c_{53}^{3}c_{55}^{-2}$$
$$-4\sqrt{3}c_{42}^{-1}c_{42}^{0}c_{53}^{2}c_{55}^{-1} + 10c_{42}^{-1}c_{42}^{0}c_{53}^{1}c_{55}^{0} - 4\sqrt{10}c_{42}^{-1}c_{42}^{0}c_{53}^{0}c_{55}^{1} + \sqrt{210}c_{42}^{-1}c_{42}^{0}c_{53}^{-1}c_{55}^{2}$$
$$-4\sqrt{14}c_{42}^{-1}c_{42}^{0}c_{53}^{-2}c_{55}^{3} + 2\sqrt{42}c_{42}^{-1}c_{42}^{0}c_{53}^{-3}c_{55}^{4} - \sqrt{3}(c_{42}^{-1})^{2}c_{53}^{3}c_{55}^{-1} + \sqrt{15}(c_{42}^{-1})^{2}c_{53}^{2}c_{55}^{0}$$
$$-3\sqrt{5}(c_{42}^{-1})^{2}c_{53}^{1}c_{55}^{1} + \sqrt{105}(c_{42}^{-1})^{2}c_{53}^{0}c_{55}^{2} - \sqrt{210}(c_{42}^{-1})^{2}c_{53}^{-1}c_{55}^{3} + 3\sqrt{42}(c_{42}^{-1})^{2}c_{53}^{-2}c_{55}^{4}$$
$$-3\sqrt{70}(c_{42}^{-1})^{2}c_{53}^{-3}c_{55}^{5} + 4\sqrt{14}c_{42}^{-2}c_{42}^{2}c_{53}^{3}c_{55}^{-3} - 6\sqrt{14}c_{42}^{-2}c_{42}^{2}c_{53}^{2}c_{55}^{-2} + 12\sqrt{5}c_{42}^{-2}c_{42}^{2}c_{53}^{1}c_{55}^{-1}$$
$$-20\sqrt{2}c_{42}^{-2}c_{42}^{2}c_{53}^{0}c_{55}^{0} + 12\sqrt{5}c_{42}^{-2}c_{42}^{2}c_{53}^{-1}c_{55}^{1} - 6\sqrt{14}c_{42}^{-2}c_{42}^{2}c_{53}^{-2}c_{55}^{2}$$
$$+4\sqrt{14}c_{42}^{-2}c_{42}^{2}c_{53}^{-3}c_{55}^{3} - 2\sqrt{21}c_{42}^{-2}c_{42}^{1}c_{53}^{3}c_{55}^{-2} + 12\sqrt{2}c_{42}^{-2}c_{42}^{1}c_{53}^{2}c_{55}^{-1}$$
$$-10\sqrt{6}c_{42}^{-2}c_{42}^{1}c_{53}^{1}c_{55}^{0} + 8\sqrt{15}c_{42}^{-2}c_{42}^{1}c_{53}^{0}c_{55}^{1} - 6\sqrt{35}c_{42}^{-2}c_{42}^{1}c_{53}^{-1}c_{55}^{2}$$
$$+8\sqrt{21}c_{42}^{-2}c_{42}^{1}c_{53}^{-2}c_{55}^{3} - 12\sqrt{7}c_{42}^{-2}c_{42}^{1}c_{53}^{-3}c_{55}^{4} + 2\sqrt{2}c_{42}^{-2}c_{42}^{0}c_{53}^{3}c_{55}^{-1} - 2\sqrt{10}c_{42}^{-2}c_{42}^{0}c_{53}^{2}c_{55}^{0}$$
$$+2\sqrt{30}c_{42}^{-2}c_{42}^{0}c_{53}^{1}c_{55}^{1} - 2\sqrt{70}c_{42}^{-2}c_{42}^{0}c_{53}^{0}c_{55}^{2} + 4\sqrt{35}c_{42}^{-2}c_{42}^{0}c_{53}^{-1}c_{55}^{3}$$
$$-12\sqrt{7}c_{42}^{-2}c_{42}^{0}c_{53}^{-2}c_{55}^{4} + 4\sqrt{105}c_{42}^{-2}c_{42}^{0}c_{53}^{-3}c_{55}^{5})/(c_{00}^{0})^{10}$$

$$
\begin{aligned}
\Phi_{76} \;=\;& c_5(3,3)_2 c_4(2,2)_2 = \frac{1}{7}\sqrt{\frac{2}{15}}\big(-3(c_{42}^1)^2(c_{53}^{-1})^2 + \sqrt{30}(c_{42}^1)^2 c_{53}^{-2} c_{53}^0 - \sqrt{15}(c_{42}^1)^2 c_{53}^{-3} c_{53}^1 \\
&+2\sqrt{6}c_{42}^0 c_{42}^2 (c_{53}^{-1})^2 - 4\sqrt{5}c_{42}^0 c_{42}^2 c_{53}^{-2} c_{53}^0 + 2\sqrt{10}c_{42}^0 c_{42}^2 c_{53}^{-3} c_{53}^1 + \sqrt{2}c_{42}^0 c_{42}^1 c_{53}^{-1} c_{53}^0 \\
&-\sqrt{15}c_{42}^0 c_{42}^1 c_{53}^{-2} c_{53}^1 + 5 c_{42}^0 c_{42}^1 c_{53}^{-3} c_{53}^2 - 2(c_{42}^0)^2 (c_{53}^0)^2 + 3(c_{42}^0)^2 c_{53}^{-1} c_{53}^1 \\
&-5(c_{42}^0)^2 c_{53}^{-3} c_{53}^3 - 2\sqrt{3}c_{42}^{-1} c_{42}^2 c_{53}^{-1} c_{53}^0 + 3\sqrt{10}c_{42}^{-1} c_{42}^2 c_{53}^{-2} c_{53}^1 - 5\sqrt{6}c_{42}^{-1} c_{42}^2 c_{53}^{-3} c_{53}^2 \\
&+2c_{42}^{-1} c_{42}^1 (c_{53}^0)^2 - 3c_{42}^{-1} c_{42}^1 c_{53}^{-1} c_{53}^1 + 5 c_{42}^{-1} c_{42}^1 c_{53}^{-3} c_{53}^3 + \sqrt{2}c_{42}^{-1} c_{42}^0 c_{53}^0 c_{53}^1 \\
&-\sqrt{15}c_{42}^{-1} c_{42}^0 c_{53}^{-1} c_{53}^2 + 5 c_{42}^{-1} c_{42}^0 c_{53}^{-2} c_{53}^3 - 3(c_{42}^{-1})^2 (c_{53}^1)^2 + \sqrt{30}(c_{42}^{-1})^2 c_{53}^0 c_{53}^2 \\
&-\sqrt{15}(c_{42}^{-2})^2 c_{53}^{-1} c_{53}^3 + 4 c_{42}^{-2} c_{42}^2 (c_{53}^0)^2 - 6 c_{42}^{-2} c_{42}^2 c_{53}^{-1} c_{53}^1 + 10 c_{42}^{-2} c_{42}^2 c_{53}^{-3} c_{53}^3 \\
&-2\sqrt{3}c_{42}^{-2} c_{42}^1 c_{53}^0 c_{53}^1 + 3\sqrt{10}c_{42}^{-2} c_{42}^1 c_{53}^{-1} c_{53}^2 - 5\sqrt{6}c_{42}^{-2} c_{42}^1 c_{53}^{-2} c_{53}^3 + 2\sqrt{6}c_{42}^{-2} c_{42}^0 (c_{53}^1)^2 \\
&-4\sqrt{5}c_{42}^{-2} c_{42}^0 c_{53}^0 c_{53}^2 + 2\sqrt{10}c_{42}^{-2} c_{42}^0 c_{53}^{-1} c_{53}^3\big)/(c_{00}^0)^{10}
\end{aligned}
$$

$$\begin{aligned}
\Phi_{77} &= c_5(5,5)_4 c_4(4,4)_4 = \frac{1}{429}\sqrt{\frac{1}{7}}(-105(c_{44}^2)^2(c_{55}^{-2})^2 + 30\sqrt{42}(c_{44}^2)^2 c_{55}^{-3} c_{55}^{-1} \\
&\quad -18\sqrt{70}(c_{44}^2)^2 c_{55}^{-4} c_{55}^0 + 6\sqrt{210}(c_{44}^2)^2 c_{55}^{-5} c_{55}^1 + 70\sqrt{7}c_{44}^1 c_{44}^3(c_{55}^{-2})^2 \\
&\quad -140\sqrt{6}c_{44}^1 c_{44}^3 c_{55}^{-3} c_{55}^{-1} + 84\sqrt{10}c_{44}^1 c_{44}^3 c_{55}^{-4} c_{55}^0 - 28\sqrt{30}c_{44}^1 c_{44}^3 c_{55}^{-5} c_{55}^1 \\
&\quad +10\sqrt{14}c_{44}^1 c_{44}^2 c_{55}^{-2} c_{55}^{-1} - 12\sqrt{70}c_{44}^1 c_{44}^2 c_{55}^{-3} c_{55}^0 + 20\sqrt{42}c_{44}^1 c_{44}^2 c_{55}^{-4} c_{55}^1 \\
&\quad -28\sqrt{15}c_{44}^1 c_{44}^2 c_{55}^{-5} c_{55}^2 - 60(c_{44}^1)^2(c_{55}^{-1})^2 + 6\sqrt{210}(c_{44}^1)^2 c_{55}^{-2} c_{55}^0 - 60\sqrt{3}(c_{44}^1)^2 c_{55}^{-4} c_{55}^2 \\
&\quad +72\sqrt{5}(c_{44}^1)^2 c_{55}^{-5} c_{55}^3 - 14\sqrt{70}c_{44}^0 c_{44}^4(c_{55}^{-2})^2 + 56\sqrt{15}c_{44}^0 c_{44}^4 c_{55}^{-3} c_{55}^{-1} - 168c_{44}^0 c_{44}^4 c_{55}^{-4} c_{55}^0 \\
&\quad +56\sqrt{3}c_{44}^0 c_{44}^4 c_{55}^{-5} c_{55}^1 - 42\sqrt{5}c_{44}^0 c_{44}^3 c_{55}^{-2} c_{55}^{-1} + 252c_{44}^0 c_{44}^3 c_{55}^{-3} c_{55}^0 \\
&\quad -84\sqrt{15}c_{44}^0 c_{44}^3 c_{55}^{-4} c_{55}^1 + 42\sqrt{42}c_{44}^0 c_{44}^3 c_{55}^{-5} c_{55}^2 + 22\sqrt{10}c_{44}^0 c_{44}^2(c_{55}^{-1})^2 \\
&\quad -22\sqrt{21}c_{44}^0 c_{44}^2 c_{55}^{-2} c_{55}^0 + 22\sqrt{30}c_{44}^0 c_{44}^2 c_{55}^{-4} c_{55}^2 - 132\sqrt{2}c_{44}^0 c_{44}^2 c_{55}^{-5} c_{55}^3 \\
&\quad +18\sqrt{6}c_{44}^0 c_{44}^1 c_{55}^{-1} c_{55}^0 - 18\sqrt{35}c_{44}^0 c_{44}^1 c_{55}^{-2} c_{55}^1 + 18\sqrt{30}c_{44}^0 c_{44}^1 c_{55}^{-3} c_{55}^2 \\
&\quad -108\sqrt{2}c_{44}^0 c_{44}^1 c_{55}^{-5} c_{55}^4 - 54(c_{44}^0)^2(c_{55}^0)^2 + 72(c_{44}^0)^2 c_{55}^{-1} c_{55}^1 + 18(c_{44}^0)^2 c_{55}^{-2} c_{55}^2 \\
&\quad -108(c_{44}^0)^2 c_{55}^{-3} c_{55}^3 + 108(c_{44}^0)^2 c_{55}^{-4} c_{55}^4 + 108(c_{44}^0)^2 c_{55}^{-5} c_{55}^5 + 70\sqrt{2}c_{44}^{-1} c_{44}^4 c_{55}^{-2} c_{55}^{-1} \\
&\quad -84\sqrt{10}c_{44}^{-1} c_{44}^4 c_{55}^{-3} c_{55}^0 + 140\sqrt{6}c_{44}^{-1} c_{44}^4 c_{55}^{-4} c_{55}^1 - 28\sqrt{105}c_{44}^{-1} c_{44}^4 c_{55}^{-5} c_{55}^2 \\
&\quad +20\sqrt{7}c_{44}^{-1} c_{44}^3(c_{55}^{-1})^2 - 14\sqrt{30}c_{44}^{-1} c_{44}^3 c_{55}^{-2} c_{55}^0 + 20\sqrt{21}c_{44}^{-1} c_{44}^3 c_{55}^{-4} c_{55}^2 \\
&\quad -24\sqrt{35}c_{44}^{-1} c_{44}^3 c_{55}^{-5} c_{55}^3 - 24\sqrt{15}c_{44}^{-1} c_{44}^2 c_{55}^{-1} c_{55}^0 + 60\sqrt{14}c_{44}^{-1} c_{44}^2 c_{55}^{-2} c_{55}^1 \\
&\quad -120\sqrt{3}c_{44}^{-1} c_{44}^2 c_{55}^{-3} c_{55}^2 + 144\sqrt{5}c_{44}^{-1} c_{44}^2 c_{55}^{-5} c_{55}^4 + 54c_{44}^{-1} c_{44}^1(c_{55}^0)^2 - 72c_{44}^{-1} c_{44}^1 c_{55}^{-1} c_{55}^1 \\
&\quad -18c_{44}^{-1} c_{44}^1 c_{55}^{-2} c_{55}^2 + 108c_{44}^{-1} c_{44}^1 c_{55}^{-3} c_{55}^3 - 108c_{44}^{-1} c_{44}^1 c_{55}^{-4} c_{55}^4 - 108c_{44}^{-1} c_{44}^1 c_{55}^{-5} c_{55}^5 \\
&\quad +18\sqrt{6}c_{44}^{-1} c_{44}^0 c_{55}^0 c_{55}^1 - 18\sqrt{35}c_{44}^{-1} c_{44}^0 c_{55}^{-1} c_{55}^2 + 18\sqrt{30}c_{44}^{-1} c_{44}^0 c_{55}^{-2} c_{55}^3 \\
&\quad -108\sqrt{2}c_{44}^{-1} c_{44}^0 c_{55}^{-4} c_{55}^5 - 60(c_{44}^{-1})^2(c_{55}^1)^2 + 6\sqrt{210}(c_{44}^{-1})^2 c_{55}^0 c_{55}^2 - 60\sqrt{3}(c_{44}^{-1})^2 c_{55}^{-2} c_{55}^4 \\
&\quad +72\sqrt{5}(c_{44}^{-1})^2 c_{55}^{-3} c_{55}^5 - 60\sqrt{7}c_{44}^{-2} c_{44}^4(c_{55}^{-1})^2 + 42\sqrt{30}c_{44}^{-2} c_{44}^4 c_{55}^{-2} c_{55}^0 \\
&\quad -60\sqrt{21}c_{44}^{-2} c_{44}^4 c_{55}^{-4} c_{55}^2 + 72\sqrt{35}c_{44}^{-2} c_{44}^4 c_{55}^{-5} c_{55}^3 + 4\sqrt{105}c_{44}^{-2} c_{44}^3 c_{55}^{-1} c_{55}^0 \\
&\quad -70\sqrt{2}c_{44}^{-2} c_{44}^3 c_{55}^{-2} c_{55}^1 + 20\sqrt{21}c_{44}^{-2} c_{44}^3 c_{55}^{-3} c_{55}^2 - 24\sqrt{35}c_{44}^{-2} c_{44}^3 c_{55}^{-5} c_{55}^4 + 66c_{44}^{-2} c_{44}^2(c_{55}^0)^2 \\
&\quad -88c_{44}^{-2} c_{44}^2 c_{55}^{-1} c_{55}^1 - 22c_{44}^{-2} c_{44}^2 c_{55}^{-2} c_{55}^2 + 132c_{44}^{-2} c_{44}^2 c_{55}^{-3} c_{55}^3 - 132c_{44}^{-2} c_{44}^2 c_{55}^{-4} c_{55}^4 \\
&\quad -132c_{44}^{-2} c_{44}^2 c_{55}^{-5} c_{55}^5 - 24\sqrt{15}c_{44}^{-2} c_{44}^1 c_{55}^0 c_{55}^1 + 60\sqrt{14}c_{44}^{-2} c_{44}^1 c_{55}^{-1} c_{55}^2 \\
&\quad -120\sqrt{3}c_{44}^{-2} c_{44}^1 c_{55}^{-2} c_{55}^3 + 144\sqrt{5}c_{44}^{-2} c_{44}^1 c_{55}^{-4} c_{55}^5 + 22\sqrt{10}c_{44}^{-2} c_{44}^0(c_{55}^1)^2 \\
&\quad -22\sqrt{21}c_{44}^{-2} c_{44}^0 c_{55}^0 c_{55}^2 + 22\sqrt{30}c_{44}^{-2} c_{44}^0 c_{55}^{-2} c_{55}^4 - 132\sqrt{2}c_{44}^{-2} c_{44}^0 c_{55}^{-3} c_{55}^5 \\
&\quad +10\sqrt{14}c_{44}^{-2} c_{44}^{-1} c_{55}^1 c_{55}^2 - 12\sqrt{70}c_{44}^{-2} c_{44}^{-1} c_{55}^0 c_{55}^3 + 20\sqrt{42}c_{44}^{-2} c_{44}^{-1} c_{55}^{-1} c_{55}^4 \\
&\quad -28\sqrt{15}c_{44}^{-2} c_{44}^{-1} c_{55}^{-2} c_{55}^5 - 105(c_{44}^{-2})^2(c_{55}^2)^2 + 30\sqrt{42}(c_{44}^{-2})^2 c_{55}^1 c_{55}^3 - 18\sqrt{70}(c_{44}^{-2})^2 c_{55}^0 c_{55}^4 \\
&\quad +6\sqrt{210}(c_{44}^{-2})^2 c_{55}^{-1} c_{55}^5 + 28\sqrt{15}c_{44}^{-3} c_{44}^4 c_{55}^{-1} c_{55}^0 - 70\sqrt{14}c_{44}^{-3} c_{44}^4 c_{55}^{-2} c_{55}^1 \\
&\quad +140\sqrt{3}c_{44}^{-3} c_{44}^4 c_{55}^{-3} c_{55}^2 - 168\sqrt{5}c_{44}^{-3} c_{44}^4 c_{55}^{-5} c_{55}^4 - 126c_{44}^{-3} c_{44}^3(c_{55}^0)^2 + 168c_{44}^{-3} c_{44}^3 c_{55}^{-1} c_{55}^1 \\
&\quad +42c_{44}^{-3} c_{44}^3 c_{55}^{-2} c_{55}^2 - 252c_{44}^{-3} c_{44}^3 c_{55}^{-3} c_{55}^3 + 252c_{44}^{-3} c_{44}^3 c_{55}^{-4} c_{55}^4 + 252c_{44}^{-3} c_{44}^3 c_{55}^{-5} c_{55}^5 \\
&\quad +4\sqrt{105}c_{44}^{-3} c_{44}^2 c_{55}^0 c_{55}^1 - 70\sqrt{2}c_{44}^{-3} c_{44}^2 c_{55}^{-1} c_{55}^2 + 20\sqrt{21}c_{44}^{-3} c_{44}^2 c_{55}^{-2} c_{55}^3 \\
&\quad -24\sqrt{35}c_{44}^{-3} c_{44}^2 c_{55}^{-4} c_{55}^5 + 20\sqrt{7}c_{44}^{-3} c_{44}^1(c_{55}^1)^2 - 14\sqrt{30}c_{44}^{-3} c_{44}^1 c_{55}^0 c_{55}^2 \\
&\quad +20\sqrt{21}c_{44}^{-3} c_{44}^1 c_{55}^{-2} c_{55}^4 - 24\sqrt{35}c_{44}^{-3} c_{44}^1 c_{55}^{-3} c_{55}^5 - 42\sqrt{5}c_{44}^{-3} c_{44}^0 c_{55}^1 c_{55}^2 \\
&\quad +252c_{44}^{-3} c_{44}^0 c_{55}^0 c_{55}^3 - 84\sqrt{15}c_{44}^{-3} c_{44}^0 c_{55}^{-1} c_{55}^4 + 42\sqrt{42}c_{44}^{-3} c_{44}^0 c_{55}^{-2} c_{55}^5 \\
&\quad +70\sqrt{7}c_{44}^{-3} c_{44}^{-1}(c_{55}^2)^2 - 140\sqrt{6}c_{44}^{-3} c_{44}^{-1} c_{55}^1 c_{55}^3 + 84\sqrt{10}c_{44}^{-3} c_{44}^{-1} c_{55}^0 c_{55}^4 \\
&\quad -28\sqrt{30}c_{44}^{-3} c_{44}^{-1} c_{55}^{-1} c_{55}^5 - 84c_{44}^{-4} c_{44}^4(c_{55}^0)^2 + 112c_{44}^{-4} c_{44}^4 c_{55}^{-1} c_{55}^1 + 28c_{44}^{-4} c_{44}^4 c_{55}^{-2} c_{55}^2 \\
&\quad -168c_{44}^{-4} c_{44}^4 c_{55}^{-3} c_{55}^3 + 168c_{44}^{-4} c_{44}^4 c_{55}^{-4} c_{55}^4 + 168c_{44}^{-4} c_{44}^4 c_{55}^{-5} c_{55}^5 + 28\sqrt{15}c_{44}^{-4} c_{44}^3 c_{55}^0 c_{55}^1 \\
&\quad -70\sqrt{14}c_{44}^{-4} c_{44}^3 c_{55}^{-1} c_{55}^2 + 140\sqrt{3}c_{44}^{-4} c_{44}^3 c_{55}^{-2} c_{55}^3 - 168\sqrt{5}c_{44}^{-4} c_{44}^3 c_{55}^{-4} c_{55}^5 \\
&\quad -60\sqrt{7}c_{44}^{-4} c_{44}^2(c_{55}^1)^2 + 42\sqrt{30}c_{44}^{-4} c_{44}^2 c_{55}^0 c_{55}^2 - 60\sqrt{21}c_{44}^{-4} c_{44}^2 c_{55}^{-2} c_{55}^4 \\
&\quad +72\sqrt{35}c_{44}^{-4} c_{44}^2 c_{55}^{-3} c_{55}^5 + 70\sqrt{2}c_{44}^{-4} c_{44}^1 c_{55}^1 c_{55}^2 - 84\sqrt{10}c_{44}^{-4} c_{44}^1 c_{55}^0 c_{55}^3 \\
&\quad +140\sqrt{6}c_{44}^{-4} c_{44}^1 c_{55}^{-1} c_{55}^4 - 28\sqrt{105}c_{44}^{-4} c_{44}^1 c_{55}^{-2} c_{55}^5 - 14\sqrt{70}c_{44}^{-4} c_{44}^0(c_{55}^2)^2 \\
&\quad +56\sqrt{15}c_{44}^{-4} c_{44}^0 c_{55}^1 c_{55}^3 - 168c_{44}^{-4} c_{44}^0 c_{55}^0 c_{55}^4 + 56\sqrt{3}c_{44}^{-4} c_{44}^0 c_{55}^{-1} c_{55}^5)/(c_{00}^0)^{10}
\end{aligned}$$

$$
\begin{aligned}
\Phi_{78} &= c_5(5,5)_4 c_4(4,2)_4 = \frac{1}{33}\sqrt{\frac{1}{910}}(-14\sqrt{15}c_{42}^2 c_{44}^2 (c_{55}^{-2})^2 + 12\sqrt{70}c_{42}^2 c_{44}^2 c_{55}^{-3}c_{55}^{-1} \\
&\quad -12\sqrt{42}c_{42}^2 c_{44}^2 c_{55}^{-4}c_{55}^0 + 12\sqrt{14}c_{42}^2 c_{44}^2 c_{55}^{-5}c_{55}^1 + 3\sqrt{210}c_{42}^2 c_{44}^1 c_{55}^{-2}c_{55}^{-1} \\
&\quad -18\sqrt{42}c_{42}^2 c_{44}^1 c_{55}^{-3}c_{55}^0 + 18\sqrt{70}c_{42}^2 c_{44}^1 c_{55}^{-4}c_{55}^1 - 126c_{42}^2 c_{44}^1 c_{55}^{-5}c_{55}^2 \\
&\quad -30\sqrt{6}c_{42}^2 c_{44}^0 (c_{55}^{-1})^2 + 18\sqrt{35}c_{42}^2 c_{44}^0 c_{55}^{-2}c_{55}^0 - 90\sqrt{2}c_{42}^2 c_{44}^0 c_{55}^{-4}c_{55}^2 \\
&\quad +36\sqrt{30}c_{42}^2 c_{44}^0 c_{55}^{-5}c_{55}^3 + 60c_{42}^2 c_{44}^{-1}c_{55}^{-1}c_{55}^0 - 10\sqrt{210}c_{42}^2 c_{44}^{-1}c_{55}^{-2}c_{55}^1 \\
&\quad +60\sqrt{5}c_{42}^2 c_{44}^{-1}c_{55}^{-3}c_{55}^2 - 120\sqrt{3}c_{42}^2 c_{44}^{-1}c_{55}^{-5}c_{55}^4 - 18\sqrt{15}c_{42}^2 c_{44}^{-2}(c_{55}^0)^2 \\
&\quad +24\sqrt{15}c_{42}^2 c_{44}^{-2}c_{55}^{-1}c_{55}^1 + 6\sqrt{15}c_{42}^2 c_{44}^{-2}c_{55}^{-2}c_{55}^2 - 36\sqrt{15}c_{42}^2 c_{44}^{-2}c_{55}^{-3}c_{55}^3 \\
&\quad +36\sqrt{15}c_{42}^2 c_{44}^{-2}c_{55}^{-4}c_{55}^4 + 36\sqrt{15}c_{42}^2 c_{44}^{-2}c_{55}^{-5}c_{55}^5 + 18\sqrt{7}c_{42}^2 c_{44}^{-3}c_{55}^0 c_{55}^1 \\
&\quad -21\sqrt{30}c_{42}^2 c_{44}^{-3}c_{55}^{-1}c_{55}^2 + 18\sqrt{35}c_{42}^2 c_{44}^{-3}c_{55}^{-2}c_{55}^3 - 36\sqrt{21}c_{42}^2 c_{44}^{-3}c_{55}^{-4}c_{55}^5 \\
&\quad -4\sqrt{105}c_{42}^2 c_{44}^{-4}(c_{55}^1)^2 + 42\sqrt{2}c_{42}^2 c_{44}^{-4}c_{55}^0 c_{55}^2 - 12\sqrt{35}c_{42}^2 c_{44}^{-4}c_{55}^{-2}c_{55}^4 \\
&\quad +24\sqrt{21}c_{42}^2 c_{44}^{-4}c_{55}^{-3}c_{55}^5 + 7\sqrt{210}c_{42}^1 c_{44}^3 (c_{55}^{-2})^2 - 84\sqrt{5}c_{42}^1 c_{44}^3 c_{55}^{-3}c_{55}^{-1} \\
&\quad +84\sqrt{3}c_{42}^1 c_{44}^3 c_{55}^{-4}c_{55}^0 - 84c_{42}^1 c_{44}^3 c_{55}^{-5}c_{55}^1 - 5\sqrt{105}c_{42}^1 c_{44}^2 c_{55}^{-2}c_{55}^{-1} \\
&\quad +30\sqrt{21}c_{42}^1 c_{44}^2 c_{55}^{-3}c_{55}^0 - 30\sqrt{35}c_{42}^1 c_{44}^2 c_{55}^{-4}c_{55}^1 + 105\sqrt{2}c_{42}^1 c_{44}^2 c_{55}^{-5}c_{55}^2 \\
&\quad +9\sqrt{30}c_{42}^1 c_{44}^1 (c_{55}^{-1})^2 - 27\sqrt{7}c_{42}^1 c_{44}^1 c_{55}^{-2}c_{55}^0 + 27\sqrt{10}c_{42}^1 c_{44}^1 c_{55}^{-4}c_{55}^2 \\
&\quad -54\sqrt{6}c_{42}^1 c_{44}^1 c_{55}^{-5}c_{55}^3 - 6\sqrt{5}c_{42}^1 c_{44}^0 c_{55}^{-1}c_{55}^0 + 5\sqrt{42}c_{42}^1 c_{44}^0 c_{55}^{-2}c_{55}^1 - 30c_{42}^1 c_{44}^0 c_{55}^{-3}c_{55}^2 \\
&\quad +12\sqrt{15}c_{42}^1 c_{44}^0 c_{55}^{-5}c_{55}^4 - 3\sqrt{30}c_{42}^1 c_{44}^{-1}(c_{55}^0)^2 + 4\sqrt{30}c_{42}^1 c_{44}^{-1}c_{55}^{-1}c_{55}^1 + \sqrt{30}c_{42}^1 c_{44}^{-1}c_{55}^{-2}c_{55}^2 \\
&\quad -6\sqrt{30}c_{42}^1 c_{44}^{-1}c_{55}^{-3}c_{55}^3 + 6\sqrt{30}c_{42}^1 c_{44}^{-1}c_{55}^{-4}c_{55}^4 + 6\sqrt{30}c_{42}^1 c_{44}^{-1}c_{55}^{-5}c_{55}^5 \\
&\quad +27\sqrt{2}c_{42}^1 c_{44}^{-2}c_{55}^0 c_{55}^1 - 9\sqrt{105}c_{42}^1 c_{44}^{-2}c_{55}^{-1}c_{55}^2 + 27\sqrt{10}c_{42}^1 c_{44}^{-2}c_{55}^{-2}c_{55}^3 \\
&\quad -54\sqrt{6}c_{42}^1 c_{44}^{-2}c_{55}^{-4}c_{55}^5 - 5\sqrt{210}c_{42}^1 c_{44}^{-3}(c_{55}^1)^2 + 105c_{42}^1 c_{44}^{-3}c_{55}^0 c_{55}^2 \\
&\quad -15\sqrt{70}c_{42}^1 c_{44}^{-3}c_{55}^{-2}c_{55}^4 + 30\sqrt{42}c_{42}^1 c_{44}^{-3}c_{55}^{-3}c_{55}^5 + 14\sqrt{15}c_{42}^1 c_{44}^{-4}c_{55}^1 c_{55}^2 \\
&\quad -84\sqrt{3}c_{42}^1 c_{44}^{-4}c_{55}^0 c_{55}^3 + 84\sqrt{5}c_{42}^1 c_{44}^{-4}c_{55}^{-1}c_{55}^4 - 42\sqrt{14}c_{42}^1 c_{44}^{-4}c_{55}^{-2}c_{55}^5 \\
&\quad -14\sqrt{70}c_{42}^0 c_{44}^4 (c_{55}^{-2})^2 + 56\sqrt{15}c_{42}^0 c_{44}^4 c_{55}^{-3}c_{55}^{-1} - 168c_{42}^0 c_{44}^4 c_{55}^{-4}c_{55}^0 \\
&\quad +56\sqrt{3}c_{42}^0 c_{44}^4 c_{55}^{-5}c_{55}^1 + 7\sqrt{5}c_{42}^0 c_{44}^3 c_{55}^{-2}c_{55}^{-1} - 42c_{42}^0 c_{44}^3 c_{55}^{-3}c_{55}^0 + 14\sqrt{15}c_{42}^0 c_{44}^3 c_{55}^{-4}c_{55}^1 \\
&\quad -7\sqrt{42}c_{42}^0 c_{44}^3 c_{55}^{-5}c_{55}^2 + 8\sqrt{10}c_{42}^0 c_{44}^2 (c_{55}^{-1})^2 - 8\sqrt{21}c_{42}^0 c_{44}^2 c_{55}^{-2}c_{55}^0 + 8\sqrt{30}c_{42}^0 c_{44}^2 c_{55}^{-4}c_{55}^2 \\
&\quad -48\sqrt{2}c_{42}^0 c_{44}^2 c_{55}^{-5}c_{55}^3 - 17\sqrt{6}c_{42}^0 c_{44}^1 c_{55}^{-1}c_{55}^0 + 17\sqrt{35}c_{42}^0 c_{44}^1 c_{55}^{-2}c_{55}^1 \\
&\quad -17\sqrt{30}c_{42}^0 c_{44}^1 c_{55}^{-3}c_{55}^2 + 102\sqrt{2}c_{42}^0 c_{44}^1 c_{55}^{-5}c_{55}^4 + 60c_{42}^0 c_{44}^0 (c_{55}^0)^2 - 80c_{42}^0 c_{44}^0 c_{55}^{-1}c_{55}^1 \\
&\quad -20c_{44}^0 c_{55}^{-2}c_{55}^2 + 120c_{42}^0 c_{44}^0 c_{55}^{-3}c_{55}^3 - 120c_{42}^0 c_{44}^0 c_{55}^{-4}c_{55}^4 - 120c_{42}^0 c_{44}^0 c_{55}^{-5}c_{55}^5 \\
&\quad -17\sqrt{6}c_{42}^0 c_{44}^{-1}c_{55}^0 c_{55}^1 + 17\sqrt{35}c_{42}^0 c_{44}^{-1}c_{55}^{-1}c_{55}^2 - 17\sqrt{30}c_{42}^0 c_{44}^{-1}c_{55}^{-2}c_{55}^3 \\
&\quad +102\sqrt{2}c_{42}^0 c_{44}^{-1}c_{55}^{-4}c_{55}^5 + 8\sqrt{10}c_{42}^0 c_{44}^{-2}(c_{55}^1)^2 - 8\sqrt{21}c_{42}^0 c_{44}^{-2}c_{55}^0 c_{55}^2 \\
&\quad +8\sqrt{30}c_{42}^0 c_{44}^{-2}c_{55}^{-2}c_{55}^4 - 48\sqrt{2}c_{42}^0 c_{44}^{-2}c_{55}^{-3}c_{55}^5 + 7\sqrt{5}c_{42}^0 c_{44}^{-3}c_{55}^1 c_{55}^2 - 42c_{42}^0 c_{44}^{-3}c_{55}^0 c_{55}^3 \\
&\quad +14\sqrt{15}c_{42}^0 c_{44}^{-3}c_{55}^{-1}c_{55}^4 - 7\sqrt{42}c_{42}^0 c_{44}^{-3}c_{55}^{-2}c_{55}^5 - 14\sqrt{70}c_{42}^0 c_{44}^{-4}(c_{55}^2)^2 \\
&\quad +56\sqrt{15}c_{42}^0 c_{44}^{-4}c_{55}^1 c_{55}^3 - 168c_{42}^0 c_{44}^{-4}c_{55}^0 c_{55}^4 + 56\sqrt{3}c_{42}^0 c_{44}^{-4}c_{55}^{-1}c_{55}^5 \\
&\quad +14\sqrt{15}c_{42}^{-1}c_{44}^4 c_{55}^{-2}c_{55}^{-1} - 84\sqrt{3}c_{42}^{-1}c_{44}^4 c_{55}^{-3}c_{55}^0 + 84\sqrt{5}c_{42}^{-1}c_{44}^4 c_{55}^{-4}c_{55}^1 \\
&\quad -42\sqrt{14}c_{42}^{-1}c_{44}^4 c_{55}^{-5}c_{55}^2 - 5\sqrt{210}c_{42}^{-1}c_{44}^3 (c_{55}^{-1})^2 + 105c_{42}^{-1}c_{44}^3 c_{55}^{-2}c_{55}^0 \\
&\quad -15\sqrt{70}c_{42}^{-1}c_{44}^3 c_{55}^{-4}c_{55}^2 + 30\sqrt{42}c_{42}^{-1}c_{44}^3 c_{55}^{-5}c_{55}^3 + 27\sqrt{2}c_{42}^{-1}c_{44}^2 c_{55}^{-1}c_{55}^0 \\
&\quad -9\sqrt{105}c_{42}^{-1}c_{44}^2 c_{55}^{-2}c_{55}^1 + 27\sqrt{10}c_{42}^{-1}c_{44}^2 c_{55}^{-3}c_{55}^2 - 54\sqrt{6}c_{42}^{-1}c_{44}^2 c_{55}^{-5}c_{55}^4 \\
&\quad -3\sqrt{30}c_{42}^{-1}c_{44}^1 (c_{55}^0)^2 + 4\sqrt{30}c_{42}^{-1}c_{44}^1 c_{55}^{-1}c_{55}^1 + \sqrt{30}c_{42}^{-1}c_{44}^1 c_{55}^{-2}c_{55}^2 - 6\sqrt{30}c_{42}^{-1}c_{44}^1 c_{55}^{-3}c_{55}^3 \\
&\quad +6\sqrt{30}c_{42}^{-1}c_{44}^1 c_{55}^{-4}c_{55}^4 + 6\sqrt{30}c_{42}^{-1}c_{44}^1 c_{55}^{-5}c_{55}^5 - 6\sqrt{5}c_{42}^{-1}c_{44}^0 c_{55}^0 c_{55}^1 + 5\sqrt{42}c_{42}^{-1}c_{44}^0 c_{55}^{-1}c_{55}^2 \\
&\quad -30c_{42}^{-1}c_{44}^0 c_{55}^{-2}c_{55}^3 + 12\sqrt{15}c_{42}^{-1}c_{44}^0 c_{55}^{-4}c_{55}^5 + 9\sqrt{30}c_{42}^{-1}c_{44}^{-1}(c_{55}^1)^2 - 27\sqrt{7}c_{42}^{-1}c_{44}^{-1}c_{55}^0 c_{55}^2 \\
&\quad +27\sqrt{10}c_{42}^{-1}c_{44}^{-1}c_{55}^{-2}c_{55}^4 - 54\sqrt{6}c_{42}^{-1}c_{44}^{-1}c_{55}^{-3}c_{55}^5 - 5\sqrt{105}c_{42}^{-1}c_{44}^{-2}c_{55}^1 c_{55}^2 \\
&\quad +30\sqrt{21}c_{42}^{-1}c_{44}^{-2}c_{55}^0 c_{55}^3 - 30\sqrt{35}c_{42}^{-1}c_{44}^{-2}c_{55}^{-1}c_{55}^4 + 105\sqrt{2}c_{42}^{-1}c_{44}^{-2}c_{55}^{-2}c_{55}^5 \\
&\quad +7\sqrt{210}c_{42}^{-1}c_{44}^{-3}(c_{55}^2)^2 - 84\sqrt{5}c_{42}^{-1}c_{44}^{-3}c_{55}^1 c_{55}^3 + 84\sqrt{3}c_{42}^{-1}c_{44}^{-3}c_{55}^0 c_{55}^4 - 84c_{42}^{-1}c_{44}^{-3}c_{55}^{-1}c_{55}^5 \\
&\quad -4\sqrt{105}c_{42}^{-2}c_{44}^4 (c_{55}^{-1})^2 + 42\sqrt{2}c_{42}^{-2}c_{44}^4 c_{55}^{-2}c_{55}^0 - 12\sqrt{35}c_{42}^{-2}c_{44}^4 c_{55}^{-4}c_{55}^2
\end{aligned}
$$

$$+24\sqrt{21}c_{42}^{-2}c_{44}^{4}c_{55}^{-5}c_{55}^{3} + 18\sqrt{7}c_{42}^{-2}c_{44}^{3}c_{55}^{-1}c_{55}^{0} - 21\sqrt{30}c_{42}^{-2}c_{44}^{3}c_{55}^{-2}c_{55}^{1}$$
$$+18\sqrt{35}c_{42}^{-2}c_{44}^{3}c_{55}^{-3}c_{55}^{2} - 36\sqrt{21}c_{42}^{-2}c_{44}^{3}c_{55}^{-5}c_{55}^{4} - 18\sqrt{15}c_{42}^{-2}c_{44}^{2}(c_{55}^{0})^{2}$$
$$+24\sqrt{15}c_{42}^{-2}c_{44}^{2}c_{55}^{-1}c_{55}^{1} + 6\sqrt{15}c_{42}^{-2}c_{44}^{2}c_{55}^{-2}c_{55}^{2} - 36\sqrt{15}c_{42}^{-2}c_{44}^{2}c_{55}^{-3}c_{55}^{3}$$
$$+36\sqrt{15}c_{42}^{-2}c_{44}^{2}c_{55}^{-4}c_{55}^{4} + 36\sqrt{15}c_{42}^{-2}c_{44}^{2}c_{55}^{-5}c_{55}^{5} + 60c_{42}^{-2}c_{44}^{1}c_{55}^{0}c_{55}^{1}$$
$$-10\sqrt{210}c_{42}^{-2}c_{44}^{1}c_{55}^{-1}c_{55}^{2} + 60\sqrt{5}c_{42}^{-2}c_{44}^{1}c_{55}^{-2}c_{55}^{3} - 120\sqrt{3}c_{42}^{-2}c_{44}^{1}c_{55}^{-4}c_{55}^{5}$$
$$-30\sqrt{6}c_{42}^{-2}c_{44}^{0}(c_{55}^{1})^{2} + 18\sqrt{35}c_{42}^{-2}c_{44}^{0}c_{55}^{0}c_{55}^{2} - 90\sqrt{2}c_{42}^{-2}c_{44}^{0}c_{55}^{-2}c_{55}^{4}$$
$$+36\sqrt{30}c_{42}^{-2}c_{44}^{0}c_{55}^{-3}c_{55}^{5} + 3\sqrt{210}c_{42}^{-2}c_{44}^{-1}c_{55}^{1}c_{55}^{2} - 18\sqrt{42}c_{42}^{-2}c_{44}^{-1}c_{55}^{0}c_{55}^{3}$$
$$+18\sqrt{70}c_{42}^{-2}c_{44}^{-1}c_{55}^{-1}c_{55}^{4} - 126c_{42}^{-2}c_{44}^{-1}c_{55}^{-2}c_{55}^{5} - 14\sqrt{15}c_{42}^{-2}c_{44}^{-2}(c_{55}^{2})^{2}$$
$$+12\sqrt{70}c_{42}^{-2}c_{44}^{-2}c_{55}^{1}c_{55}^{3} - 12\sqrt{42}c_{42}^{-2}c_{44}^{-2}c_{55}^{0}c_{55}^{4} + 12\sqrt{14}c_{42}^{-2}c_{44}^{-2}c_{55}^{-1}c_{55}^{5})/(c_{00}^{0})^{10}$$

$$\Phi_{79} = c_5(5,5)_4 c_4(2,2)_4 = \frac{1}{3}\sqrt{\frac{1}{5005}}(-35(c_{42}^{2})^{2}(c_{55}^{-2})^{2} + 10\sqrt{42}(c_{42}^{2})^{2}c_{55}^{-3}c_{55}^{-1}$$
$$-6\sqrt{70}(c_{42}^{2})^{2}c_{55}^{-4}c_{55}^{0} + 2\sqrt{210}(c_{42}^{2})^{2}c_{55}^{-5}c_{55}^{1} + 10\sqrt{7}c_{42}^{1}c_{42}^{2}c_{55}^{-2}c_{55}^{-1}$$
$$-12\sqrt{35}c_{42}^{1}c_{42}^{2}c_{55}^{-3}c_{55}^{0} + 20\sqrt{21}c_{42}^{1}c_{42}^{2}c_{55}^{-4}c_{55}^{1} - 14\sqrt{30}c_{42}^{1}c_{42}^{2}c_{55}^{-5}c_{55}^{2} - 20(c_{42}^{1})^{2}(c_{55}^{-1})^{2}$$
$$+2\sqrt{210}(c_{42}^{1})^{2}c_{55}^{-2}c_{55}^{0} - 20\sqrt{3}(c_{42}^{1})^{2}c_{55}^{-4}c_{55}^{2} + 24\sqrt{5}(c_{42}^{1})^{2}c_{55}^{-5}c_{55}^{3} - 10\sqrt{6}c_{42}^{0}c_{42}^{2}(c_{55}^{-1})^{2}$$
$$+6\sqrt{35}c_{42}^{0}c_{42}^{2}c_{55}^{-2}c_{55}^{0} - 30\sqrt{2}c_{42}^{0}c_{42}^{2}c_{55}^{-4}c_{55}^{2} + 12\sqrt{30}c_{42}^{0}c_{42}^{2}c_{55}^{-5}c_{55}^{3}$$
$$+12\sqrt{5}c_{42}^{0}c_{42}^{1}c_{55}^{-1}c_{55}^{0} - 10\sqrt{42}c_{42}^{0}c_{42}^{1}c_{55}^{-2}c_{55}^{1} + 60c_{42}^{0}c_{42}^{1}c_{55}^{-3}c_{55}^{2}$$
$$-24\sqrt{15}c_{42}^{0}c_{42}^{1}c_{55}^{-5}c_{55}^{4} - 18(c_{42}^{0})^{2}(c_{55}^{0})^{2} + 24(c_{42}^{0})^{2}c_{55}^{-1}c_{55}^{1} + 6(c_{42}^{0})^{2}c_{55}^{-2}c_{55}^{2}$$
$$-36(c_{42}^{0})^{2}c_{55}^{-3}c_{55}^{3} + 36(c_{42}^{0})^{2}c_{55}^{-4}c_{55}^{4} + 36(c_{42}^{0})^{2}c_{55}^{-5}c_{55}^{5} + 2\sqrt{30}c_{42}^{-1}c_{42}^{2}c_{55}^{-1}c_{55}^{0}$$
$$-10\sqrt{7}c_{42}^{-1}c_{42}^{2}c_{55}^{-2}c_{55}^{1} + 10\sqrt{6}c_{42}^{-1}c_{42}^{2}c_{55}^{-3}c_{55}^{2} - 12\sqrt{10}c_{42}^{-1}c_{42}^{2}c_{55}^{-5}c_{55}^{4} - 24c_{42}^{-1}c_{42}^{1}(c_{55}^{0})^{2}$$
$$+32c_{42}^{-1}c_{42}^{1}c_{55}^{-1}c_{55}^{1} + 8c_{42}^{-1}c_{42}^{1}c_{55}^{-2}c_{55}^{2} - 48c_{42}^{-1}c_{42}^{1}c_{55}^{-3}c_{55}^{3} + 48c_{42}^{-1}c_{42}^{1}c_{55}^{-4}c_{55}^{4}$$
$$+48c_{42}^{-1}c_{42}^{1}c_{55}^{-5}c_{55}^{5} + 12\sqrt{5}c_{42}^{-1}c_{42}^{0}c_{55}^{0}c_{55}^{1} - 10\sqrt{42}c_{42}^{-1}c_{42}^{0}c_{55}^{-1}c_{55}^{2} + 60c_{42}^{-1}c_{42}^{0}c_{55}^{-2}c_{55}^{3}$$
$$-24\sqrt{15}c_{42}^{-1}c_{42}^{0}c_{55}^{-4}c_{55}^{5} - 20(c_{42}^{-1})^{2}(c_{55}^{1})^{2} + 2\sqrt{210}(c_{42}^{-1})^{2}c_{55}^{0}c_{55}^{2} - 20\sqrt{3}(c_{42}^{-1})^{2}c_{55}^{-2}c_{55}^{4}$$
$$+24\sqrt{5}(c_{42}^{-1})^{2}c_{55}^{-3}c_{55}^{5} - 6c_{42}^{-2}c_{42}^{2}(c_{55}^{0})^{2} + 8c_{42}^{-2}c_{42}^{2}c_{55}^{-1}c_{55}^{1} + 2c_{42}^{-2}c_{42}^{2}c_{55}^{-2}c_{55}^{2}$$
$$-12c_{42}^{-2}c_{42}^{2}c_{55}^{-3}c_{55}^{3} + 12c_{42}^{-2}c_{42}^{2}c_{55}^{-4}c_{55}^{4} + 12c_{42}^{-2}c_{42}^{2}c_{55}^{-5}c_{55}^{5} + 2\sqrt{30}c_{42}^{-2}c_{42}^{1}c_{55}^{0}c_{55}^{1}$$
$$-10\sqrt{7}c_{42}^{-2}c_{42}^{1}c_{55}^{-1}c_{55}^{2} + 10\sqrt{6}c_{42}^{-2}c_{42}^{1}c_{55}^{-2}c_{55}^{3} - 12\sqrt{10}c_{42}^{-2}c_{42}^{1}c_{55}^{-4}c_{55}^{5}$$
$$-10\sqrt{6}c_{42}^{-2}c_{42}^{0}(c_{55}^{1})^{2} + 6\sqrt{35}c_{42}^{-2}c_{42}^{0}c_{55}^{0}c_{55}^{2} - 30\sqrt{2}c_{42}^{-2}c_{42}^{0}c_{55}^{-2}c_{55}^{4}$$
$$+12\sqrt{30}c_{42}^{-2}c_{42}^{0}c_{55}^{-3}c_{55}^{5} + 10\sqrt{7}c_{42}^{-2}c_{42}^{-1}c_{55}^{1}c_{55}^{2} - 12\sqrt{35}c_{42}^{-2}c_{42}^{-1}c_{55}^{0}c_{55}^{3}$$
$$+20\sqrt{21}c_{42}^{-2}c_{42}^{-1}c_{55}^{-1}c_{55}^{4} - 14\sqrt{30}c_{42}^{-2}c_{42}^{-1}c_{55}^{-2}c_{55}^{5} - 35(c_{42}^{-2})^{2}(c_{55}^{2})^{2} + 10\sqrt{42}(c_{42}^{-2})^{2}c_{55}^{1}c_{55}^{3}$$
$$-6\sqrt{70}(c_{42}^{-2})^{2}c_{55}^{0}c_{55}^{4} + 2\sqrt{210}(c_{42}^{-2})^{2}c_{55}^{-1}c_{55}^{5})/(c_{00}^{0})^{10}$$

$$
\begin{aligned}
\Phi_{80} \;=\;& c_5(5,3)_4 c_4(4,2)_4 = \frac{1}{4620}\sqrt{\frac{1}{13}}\,(168\sqrt{35}\,c_{42}^2 c_{44}^2 c_{53}^1 c_{55}^{-5} - 168\sqrt{42}\,c_{42}^2 c_{44}^2 c_{53}^0 c_{55}^{-4} \\
&+336\sqrt{7}\,c_{42}^2 c_{44}^2 c_{53}^{-1} c_{55}^{-3} - 56\sqrt{105}\,c_{42}^2 c_{44}^2 c_{53}^{-2} c_{55}^{-2} + 84\sqrt{10}\,c_{42}^2 c_{44}^2 c_{53}^{-3} c_{55}^{-1} \\
&-630\sqrt{7}\,c_{42}^2 c_{44}^1 c_{53}^2 c_{55}^{-5} + 126\sqrt{7}\,c_{42}^2 c_{44}^1 c_{53}^1 c_{55}^{-4} + 126\sqrt{42}\,c_{42}^2 c_{44}^1 c_{53}^0 c_{55}^{-3} \\
&-294\sqrt{21}\,c_{42}^2 c_{44}^1 c_{53}^{-1} c_{55}^{-2} + 231\sqrt{30}\,c_{42}^2 c_{44}^1 c_{53}^{-2} c_{55}^{-1} - 315\sqrt{6}\,c_{42}^2 c_{44}^1 c_{53}^{-3} c_{55}^{0} \\
&+90\sqrt{210}\,c_{42}^2 c_{44}^0 c_{53}^3 c_{55}^{-5} + 360\sqrt{14}\,c_{42}^2 c_{44}^0 c_{53}^2 c_{55}^{-4} - 162\sqrt{70}\,c_{42}^2 c_{44}^0 c_{53}^1 c_{55}^{-3} \\
&+36\sqrt{35}\,c_{42}^2 c_{44}^0 c_{53}^0 c_{55}^{-2} + 258\sqrt{15}\,c_{42}^2 c_{44}^0 c_{53}^{-1} c_{55}^{-1} - 720\sqrt{5}\,c_{42}^2 c_{44}^0 c_{53}^{-2} c_{55}^0 \\
&+1350\,c_{42}^2 c_{44}^0 c_{53}^{-3} c_{55}^1 - 180\sqrt{105}\,c_{42}^2 c_{44}^{-1} c_{53}^3 c_{55}^{-4} - 60\sqrt{35}\,c_{42}^2 c_{44}^{-1} c_{53}^2 c_{55}^{-3} \\
&+320\sqrt{21}\,c_{42}^2 c_{44}^{-1} c_{53}^1 c_{55}^{-2} - 1140\,c_{42}^2 c_{44}^{-1} c_{53}^0 c_{55}^{-1} - 30\sqrt{10}\,c_{42}^2 c_{44}^{-1} c_{53}^{-1} c_{55}^0 \\
&+250\sqrt{30}\,c_{42}^2 c_{44}^{-1} c_{53}^{-2} c_{55}^1 - 300\sqrt{35}\,c_{42}^2 c_{44}^{-1} c_{53}^{-3} c_{55}^2 + 180\sqrt{105}\,c_{42}^2 c_{44}^{-2} c_{53}^3 c_{55}^{-3} \\
&-60\sqrt{105}\,c_{42}^2 c_{44}^{-2} c_{53}^2 c_{55}^{-2} - 330\sqrt{6}\,c_{42}^2 c_{44}^{-2} c_{53}^1 c_{55}^{-1} + 360\sqrt{15}\,c_{42}^2 c_{44}^{-2} c_{53}^0 c_{55}^0 \\
&-330\sqrt{6}\,c_{42}^2 c_{44}^{-2} c_{53}^{-1} c_{55}^1 - 60\sqrt{105}\,c_{42}^2 c_{44}^{-2} c_{53}^{-2} c_{55}^2 + 180\sqrt{105}\,c_{42}^2 c_{44}^{-2} c_{53}^{-3} c_{55}^3 \\
&-630\sqrt{5}\,c_{42}^2 c_{44}^{-3} c_{53}^3 c_{55}^{-2} + 75\sqrt{210}\,c_{42}^2 c_{44}^{-3} c_{53}^2 c_{55}^{-1} - 9\sqrt{70}\,c_{42}^2 c_{44}^{-3} c_{53}^1 c_{55}^0 \\
&-342\sqrt{7}\,c_{42}^2 c_{44}^{-3} c_{53}^0 c_{55}^1 + 672\sqrt{3}\,c_{42}^2 c_{44}^{-3} c_{53}^{-1} c_{55}^2 - 126\sqrt{5}\,c_{42}^2 c_{44}^{-3} c_{53}^{-2} c_{55}^3 \\
&-378\sqrt{15}\,c_{42}^2 c_{44}^{-3} c_{53}^{-3} c_{55}^4 + 90\sqrt{70}\,c_{42}^2 c_{44}^{-4} c_{53}^3 c_{55}^{-1} - 240\sqrt{14}\,c_{42}^2 c_{44}^{-4} c_{53}^2 c_{55}^0 \\
&+86\sqrt{42}\,c_{42}^2 c_{44}^{-4} c_{53}^1 c_{55}^1 + 84\sqrt{2}\,c_{42}^2 c_{44}^{-4} c_{53}^0 c_{55}^2 - 756\,c_{42}^2 c_{44}^{-4} c_{53}^{-1} c_{55}^3 \\
&+336\sqrt{5}\,c_{42}^2 c_{44}^{-4} c_{53}^{-2} c_{55}^4 + 420\sqrt{3}\,c_{42}^2 c_{44}^{-4} c_{53}^{-3} c_{55}^5 - 588\sqrt{10}\,c_{42}^1 c_{44}^3 c_{53}^1 c_{55}^{-5} \\
&+1176\sqrt{3}\,c_{42}^1 c_{44}^3 c_{53}^0 c_{55}^{-4} - 1176\sqrt{2}\,c_{42}^1 c_{44}^3 c_{53}^{-1} c_{55}^{-3} + 196\sqrt{30}\,c_{42}^1 c_{44}^3 c_{53}^{-2} c_{55}^{-2} \\
&-84\sqrt{35}\,c_{42}^1 c_{44}^3 c_{53}^{-3} c_{55}^{-1} + 525\sqrt{14}\,c_{42}^1 c_{44}^2 c_{53}^2 c_{55}^{-5} - 105\sqrt{14}\,c_{42}^1 c_{44}^2 c_{53}^1 c_{55}^{-4} \\
&-210\sqrt{21}\,c_{42}^1 c_{44}^2 c_{53}^0 c_{55}^{-3} + 245\sqrt{42}\,c_{42}^1 c_{44}^2 c_{53}^{-1} c_{55}^{-2} - 385\sqrt{15}\,c_{42}^1 c_{44}^2 c_{53}^{-2} c_{55}^{-1} \\
&+525\sqrt{3}\,c_{42}^1 c_{44}^2 c_{53}^{-3} c_{55}^0 - 135\sqrt{42}\,c_{42}^1 c_{44}^1 c_{53}^3 c_{55}^{-5} - 108\sqrt{70}\,c_{42}^1 c_{44}^1 c_{53}^2 c_{55}^{-4} \\
&+243\sqrt{14}\,c_{42}^1 c_{44}^1 c_{53}^1 c_{55}^{-3} - 54\sqrt{7}\,c_{42}^1 c_{44}^1 c_{53}^0 c_{55}^{-2} - 387\sqrt{3}\,c_{42}^1 c_{44}^1 c_{53}^{-1} c_{55}^{-1} \\
&+1080\,c_{42}^1 c_{44}^1 c_{53}^{-2} c_{55}^0 - 405\sqrt{5}\,c_{42}^1 c_{44}^1 c_{53}^{-3} c_{55}^1 + 90\sqrt{21}\,c_{42}^1 c_{44}^0 c_{53}^3 c_{55}^{-4} \\
&+30\sqrt{7}\,c_{42}^1 c_{44}^0 c_{53}^2 c_{55}^{-3} - 32\sqrt{105}\,c_{42}^1 c_{44}^0 c_{53}^1 c_{55}^{-2} + 114\sqrt{5}\,c_{42}^1 c_{44}^0 c_{53}^0 c_{55}^{-1} \\
&+15\sqrt{2}\,c_{42}^1 c_{44}^0 c_{53}^{-1} c_{55}^0 - 125\sqrt{6}\,c_{42}^1 c_{44}^0 c_{53}^{-2} c_{55}^1 + 150\sqrt{7}\,c_{42}^1 c_{44}^0 c_{53}^{-3} c_{55}^2 \\
&+30\sqrt{210}\,c_{42}^1 c_{44}^{-1} c_{53}^3 c_{55}^{-3} - 10\sqrt{210}\,c_{42}^1 c_{44}^{-1} c_{53}^2 c_{55}^{-2} - 110\sqrt{3}\,c_{42}^1 c_{44}^{-1} c_{53}^1 c_{55}^{-1} \\
&+60\sqrt{30}\,c_{42}^1 c_{44}^{-1} c_{53}^0 c_{55}^0 - 110\sqrt{3}\,c_{42}^1 c_{44}^{-1} c_{53}^{-1} c_{55}^1 - 10\sqrt{210}\,c_{42}^1 c_{44}^{-1} c_{53}^{-2} c_{55}^2 \\
&+30\sqrt{210}\,c_{42}^1 c_{44}^{-1} c_{53}^{-3} c_{55}^3 - 135\sqrt{70}\,c_{42}^1 c_{44}^{-2} c_{53}^3 c_{55}^{-2} + 225\sqrt{15}\,c_{42}^1 c_{44}^{-2} c_{53}^2 c_{55}^{-1} \\
&-27\sqrt{5}\,c_{42}^1 c_{44}^{-2} c_{53}^1 c_{55}^0 - 513\sqrt{2}\,c_{42}^1 c_{44}^{-2} c_{53}^0 c_{55}^1 + 144\sqrt{42}\,c_{42}^1 c_{44}^{-2} c_{53}^{-1} c_{55}^2 \\
&-27\sqrt{70}\,c_{42}^1 c_{44}^{-2} c_{53}^{-2} c_{55}^3 - 81\sqrt{210}\,c_{42}^1 c_{44}^{-2} c_{53}^{-3} c_{55}^4 + 225\sqrt{35}\,c_{42}^1 c_{44}^{-3} c_{53}^3 c_{55}^{-1} \\
&-600\sqrt{7}\,c_{42}^1 c_{44}^{-3} c_{53}^2 c_{55}^0 + 215\sqrt{21}\,c_{42}^1 c_{44}^{-3} c_{53}^1 c_{55}^1 + 210\,c_{42}^1 c_{44}^{-3} c_{53}^0 c_{55}^2 \\
&-945\sqrt{2}\,c_{42}^1 c_{44}^{-3} c_{53}^{-1} c_{55}^3 + 420\sqrt{10}\,c_{42}^1 c_{44}^{-3} c_{53}^{-2} c_{55}^4 + 525\sqrt{6}\,c_{42}^1 c_{44}^{-3} c_{53}^{-3} c_{55}^5 \\
&-210\sqrt{21}\,c_{42}^1 c_{44}^{-4} c_{53}^3 c_{55}^0 + 154\sqrt{105}\,c_{42}^1 c_{44}^{-4} c_{53}^2 c_{55}^1 - 686\sqrt{6}\,c_{42}^1 c_{44}^{-4} c_{53}^1 c_{55}^2 \\
&+588\sqrt{3}\,c_{42}^1 c_{44}^{-4} c_{53}^0 c_{55}^3 + 294\sqrt{2}\,c_{42}^1 c_{44}^{-4} c_{53}^{-1} c_{55}^4 - 1470\sqrt{2}\,c_{42}^1 c_{44}^{-4} c_{53}^{-2} c_{55}^5 \\
&+392\sqrt{30}\,c_{42}^0 c_{44}^4 c_{53}^1 c_{55}^{-5} - 2352\,c_{42}^0 c_{44}^4 c_{53}^0 c_{55}^{-4} + 784\sqrt{6}\,c_{42}^0 c_{44}^4 c_{53}^{-1} c_{55}^{-3} \\
&-392\sqrt{10}\,c_{42}^0 c_{44}^4 c_{53}^{-2} c_{55}^{-2} + 56\sqrt{105}\,c_{42}^0 c_{44}^4 c_{53}^{-3} c_{55}^{-1} - 245\sqrt{6}\,c_{42}^0 c_{44}^3 c_{53}^2 c_{55}^{-5} \\
&+49\sqrt{6}\,c_{42}^0 c_{44}^3 c_{53}^1 c_{55}^{-4} + 294\,c_{42}^0 c_{44}^3 c_{53}^0 c_{55}^{-3} - 343\sqrt{2}\,c_{42}^0 c_{44}^3 c_{53}^{-1} c_{55}^{-2} \\
&+77\sqrt{35}\,c_{42}^0 c_{44}^3 c_{53}^{-2} c_{55}^{-1} - 105\sqrt{7}\,c_{42}^0 c_{44}^3 c_{53}^{-3} c_{55}^0 - 120\sqrt{14}\,c_{42}^0 c_{44}^2 c_{53}^3 c_{55}^{-5} \\
&-32\sqrt{210}\,c_{42}^0 c_{44}^2 c_{53}^2 c_{55}^{-4} + 72\sqrt{42}\,c_{42}^0 c_{44}^2 c_{53}^1 c_{55}^{-3} - 16\sqrt{21}\,c_{42}^0 c_{44}^2 c_{53}^0 c_{55}^{-2} \\
&-344\,c_{42}^0 c_{44}^2 c_{53}^{-1} c_{55}^{-1} + 320\sqrt{3}\,c_{42}^0 c_{44}^2 c_{53}^{-2} c_{55}^0 - 120\sqrt{15}\,c_{42}^0 c_{44}^2 c_{53}^{-3} c_{55}^1 \\
&+153\sqrt{70}\,c_{42}^0 c_{44}^1 c_{53}^3 c_{55}^{-4} + 17\sqrt{210}\,c_{42}^0 c_{44}^1 c_{53}^2 c_{55}^{-3} - 272\sqrt{14}\,c_{42}^0 c_{44}^1 c_{53}^1 c_{55}^{-2} \\
&+323\sqrt{6}\,c_{42}^0 c_{44}^1 c_{53}^0 c_{55}^{-1} + 17\sqrt{15}\,c_{42}^0 c_{44}^1 c_{53}^{-1} c_{55}^0 - 425\sqrt{5}\,c_{42}^0 c_{44}^1 c_{53}^{-2} c_{55}^1 \\
&+85\sqrt{210}\,c_{42}^0 c_{44}^1 c_{53}^{-3} c_{55}^2 - 600\sqrt{7}\,c_{42}^0 c_{44}^0 c_{53}^3 c_{55}^{-3} + 200\sqrt{7}\,c_{42}^0 c_{44}^0 c_{53}^2 c_{55}^{-2} \\
&+220\sqrt{10}\,c_{42}^0 c_{44}^0 c_{53}^1 c_{55}^{-1} - 1200\,c_{42}^0 c_{44}^0 c_{53}^0 c_{55}^0 + 220\sqrt{10}\,c_{42}^0 c_{44}^0 c_{53}^{-1} c_{55}^1
\end{aligned}
$$

$$
\begin{aligned}
&+200\sqrt{7}c_{42}^0c_{44}^0c_{53}^{-2}c_{55}^2 - 600\sqrt{7}c_{42}^0c_{44}^0c_{53}^{-3}c_{55}^3 + 85\sqrt{210}c_{42}^0c_{44}^{-1}c_{53}^3c_{55}^{-2} \\
&-425\sqrt{5}c_{42}^0c_{44}^{-1}c_{53}^2c_{55}^{-1} + 17\sqrt{15}c_{42}^0c_{44}^{-1}c_{53}^1c_{55}^0 + 323\sqrt{6}c_{42}^0c_{44}^{-1}c_{53}^0c_{55}^1 \\
&-272\sqrt{14}c_{42}^0c_{44}^{-1}c_{53}^{-1}c_{55}^2 + 17\sqrt{210}c_{42}^0c_{44}^{-1}c_{53}^{-2}c_{55}^3 + 153\sqrt{70}c_{42}^0c_{44}^{-1}c_{53}^{-3}c_{55}^4 \\
&-120\sqrt{15}c_{42}^0c_{44}^{-2}c_{53}^3c_{55}^{-1} + 320\sqrt{3}c_{42}^0c_{44}^{-2}c_{53}^2c_{55}^0 - 344c_{42}^0c_{44}^{-2}c_{53}^1c_{55}^1 \\
&-16\sqrt{21}c_{42}^0c_{44}^{-2}c_{53}^0c_{55}^2 + 72\sqrt{42}c_{42}^0c_{44}^{-2}c_{53}^{-1}c_{55}^3 - 32\sqrt{210}c_{42}^0c_{44}^{-2}c_{53}^{-2}c_{55}^4 \\
&-120\sqrt{14}c_{42}^0c_{44}^{-2}c_{53}^{-3}c_{55}^5 - 105\sqrt{7}c_{42}^0c_{44}^{-3}c_{53}^3c_{55}^0 + 77\sqrt{35}c_{42}^0c_{44}^{-3}c_{53}^2c_{55}^1 \\
&-343\sqrt{2}c_{42}^0c_{44}^{-3}c_{53}^1c_{55}^2 + 294c_{42}^0c_{44}^{-3}c_{53}^0c_{55}^3 + 49\sqrt{6}c_{42}^0c_{44}^{-3}c_{53}^{-1}c_{55}^4 \\
&-245\sqrt{6}c_{42}^0c_{44}^{-3}c_{53}^{-2}c_{55}^5 + 56\sqrt{105}c_{42}^0c_{44}^{-4}c_{53}^3c_{55}^1 - 392\sqrt{10}c_{42}^0c_{44}^{-4}c_{53}^2c_{55}^2 \\
&+784\sqrt{6}c_{42}^0c_{44}^{-4}c_{53}^1c_{55}^3 - 2352c_{42}^0c_{44}^{-4}c_{53}^0c_{55}^4 + 392\sqrt{30}c_{42}^0c_{44}^{-4}c_{53}^{-1}c_{55}^5 \\
&-1470\sqrt{2}c_{42}^{-1}c_{44}^4c_{53}^2c_{55}^{-5} + 294\sqrt{2}c_{42}^{-1}c_{44}^4c_{53}^1c_{55}^{-4} + 588\sqrt{3}c_{42}^{-1}c_{44}^4c_{53}^0c_{55}^{-3} \\
&-686\sqrt{6}c_{42}^{-1}c_{44}^4c_{53}^{-1}c_{55}^{-2} + 154\sqrt{105}c_{42}^{-1}c_{44}^4c_{53}^{-2}c_{55}^{-1} - 210\sqrt{21}c_{42}^{-1}c_{44}^4c_{53}^{-3}c_{55}^0 \\
&+525\sqrt{6}c_{42}^{-1}c_{44}^3c_{53}^3c_{55}^{-5} + 420\sqrt{10}c_{42}^{-1}c_{44}^3c_{53}^2c_{55}^{-4} - 945\sqrt{2}c_{42}^{-1}c_{44}^3c_{53}^1c_{55}^{-3} \\
&+210c_{42}^{-1}c_{44}^3c_{53}^0c_{55}^{-2} + 215\sqrt{21}c_{42}^{-1}c_{44}^3c_{53}^{-1}c_{55}^{-1} - 600\sqrt{7}c_{42}^{-1}c_{44}^3c_{53}^{-2}c_{55}^0 \\
&+225\sqrt{35}c_{42}^{-1}c_{44}^3c_{53}^{-3}c_{55}^1 - 81\sqrt{210}c_{42}^{-1}c_{44}^2c_{53}^3c_{55}^{-4} - 27\sqrt{70}c_{42}^{-1}c_{44}^2c_{53}^2c_{55}^{-3} \\
&+144\sqrt{42}c_{42}^{-1}c_{44}^2c_{53}^1c_{55}^{-2} - 513\sqrt{2}c_{42}^{-1}c_{44}^2c_{53}^0c_{55}^{-1} - 27\sqrt{5}c_{42}^{-1}c_{44}^2c_{53}^{-1}c_{55}^0 \\
&+225\sqrt{15}c_{42}^{-1}c_{44}^2c_{53}^{-2}c_{55}^1 - 135\sqrt{70}c_{42}^{-1}c_{44}^2c_{53}^{-3}c_{55}^2 + 30\sqrt{210}c_{42}^{-1}c_{44}^1c_{53}^3c_{55}^{-3} \\
&-10\sqrt{210}c_{42}^{-1}c_{44}^1c_{53}^2c_{55}^{-2} - 110\sqrt{3}c_{42}^{-1}c_{44}^1c_{53}^1c_{55}^{-1} + 60\sqrt{30}c_{42}^{-1}c_{44}^1c_{53}^0c_{55}^0 \\
&-110\sqrt{3}c_{42}^{-1}c_{44}^1c_{53}^{-1}c_{55}^1 - 10\sqrt{210}c_{42}^{-1}c_{44}^1c_{53}^{-2}c_{55}^2 + 30\sqrt{210}c_{42}^{-1}c_{44}^1c_{53}^{-3}c_{55}^3 \\
&+150\sqrt{7}c_{42}^{-1}c_{44}^0c_{53}^3c_{55}^{-2} - 125\sqrt{6}c_{42}^{-1}c_{44}^0c_{53}^2c_{55}^{-1} + 15\sqrt{2}c_{42}^{-1}c_{44}^0c_{53}^1c_{55}^0 \\
&+114\sqrt{5}c_{42}^{-1}c_{44}^0c_{53}^0c_{55}^1 - 32\sqrt{105}c_{42}^{-1}c_{44}^0c_{53}^{-1}c_{55}^2 + 30\sqrt{7}c_{42}^{-1}c_{44}^0c_{53}^{-2}c_{55}^3 \\
&+90\sqrt{21}c_{42}^{-1}c_{44}^0c_{53}^{-3}c_{55}^4 - 405\sqrt{5}c_{42}^{-1}c_{44}^{-1}c_{53}^3c_{55}^{-1} + 1080c_{42}^{-1}c_{44}^{-1}c_{53}^2c_{55}^0 \\
&-387\sqrt{3}c_{42}^{-1}c_{44}^{-1}c_{53}^1c_{55}^1 - 54\sqrt{7}c_{42}^{-1}c_{44}^{-1}c_{53}^0c_{55}^2 + 243\sqrt{14}c_{42}^{-1}c_{44}^{-1}c_{53}^{-1}c_{55}^3 \\
&-108\sqrt{70}c_{42}^{-1}c_{44}^{-1}c_{53}^{-2}c_{55}^4 - 135\sqrt{42}c_{42}^{-1}c_{44}^{-1}c_{53}^{-3}c_{55}^5 + 525\sqrt{3}c_{42}^{-1}c_{44}^{-2}c_{53}^3c_{55}^0 \\
&-385\sqrt{15}c_{42}^{-1}c_{44}^{-2}c_{53}^2c_{55}^1 + 245\sqrt{42}c_{42}^{-1}c_{44}^{-2}c_{53}^1c_{55}^2 - 210\sqrt{21}c_{42}^{-1}c_{44}^{-2}c_{53}^0c_{55}^3 \\
&-105\sqrt{14}c_{42}^{-1}c_{44}^{-2}c_{53}^{-1}c_{55}^4 + 525\sqrt{14}c_{42}^{-1}c_{44}^{-2}c_{53}^{-2}c_{55}^5 - 84\sqrt{35}c_{42}^{-1}c_{44}^{-3}c_{53}^3c_{55}^1 \\
&+196\sqrt{30}c_{42}^{-1}c_{44}^{-3}c_{53}^2c_{55}^2 - 1176\sqrt{2}c_{42}^{-1}c_{44}^{-3}c_{53}^1c_{55}^3 + 1176\sqrt{3}c_{42}^{-1}c_{44}^{-3}c_{53}^0c_{55}^4 \\
&-588\sqrt{10}c_{42}^{-1}c_{44}^{-3}c_{53}^{-1}c_{55}^5 + 420\sqrt{3}c_{42}^{-2}c_{44}^4c_{53}^3c_{55}^{-5} + 336\sqrt{5}c_{42}^{-2}c_{44}^4c_{53}^2c_{55}^{-4} \\
&-756c_{42}^{-2}c_{44}^4c_{53}^1c_{55}^{-3} + 84\sqrt{2}c_{42}^{-2}c_{44}^4c_{53}^0c_{55}^{-2} + 86\sqrt{42}c_{42}^{-2}c_{44}^4c_{53}^{-1}c_{55}^{-1} \\
&-240\sqrt{14}c_{42}^{-2}c_{44}^4c_{53}^{-2}c_{55}^0 + 90\sqrt{70}c_{42}^{-2}c_{44}^4c_{53}^{-3}c_{55}^1 - 378\sqrt{15}c_{42}^{-2}c_{44}^3c_{53}^3c_{55}^{-4} \\
&-126\sqrt{5}c_{42}^{-2}c_{44}^3c_{53}^2c_{55}^{-3} + 672\sqrt{3}c_{42}^{-2}c_{44}^3c_{53}^1c_{55}^{-2} - 342\sqrt{7}c_{42}^{-2}c_{44}^3c_{53}^0c_{55}^{-1} \\
&-9\sqrt{70}c_{42}^{-2}c_{44}^3c_{53}^{-1}c_{55}^0 + 75\sqrt{210}c_{42}^{-2}c_{44}^3c_{53}^{-2}c_{55}^1 - 630\sqrt{5}c_{42}^{-2}c_{44}^3c_{53}^{-3}c_{55}^2 \\
&+180\sqrt{105}c_{42}^{-2}c_{44}^2c_{53}^3c_{55}^{-3} - 60\sqrt{105}c_{42}^{-2}c_{44}^2c_{53}^2c_{55}^{-2} - 330\sqrt{6}c_{42}^{-2}c_{44}^2c_{53}^1c_{55}^{-1} \\
&+360\sqrt{15}c_{42}^{-2}c_{44}^2c_{53}^0c_{55}^0 - 330\sqrt{6}c_{42}^{-2}c_{44}^2c_{53}^{-1}c_{55}^1 - 60\sqrt{105}c_{42}^{-2}c_{44}^2c_{53}^{-2}c_{55}^2 \\
&+180\sqrt{105}c_{42}^{-2}c_{44}^2c_{53}^{-3}c_{55}^3 - 300\sqrt{35}c_{42}^{-2}c_{44}^1c_{53}^3c_{55}^{-2} + 250\sqrt{30}c_{42}^{-2}c_{44}^1c_{53}^2c_{55}^{-1} \\
&-30\sqrt{10}c_{42}^{-2}c_{44}^1c_{53}^1c_{55}^0 - 1140c_{42}^{-2}c_{44}^1c_{53}^0c_{55}^1 + 320\sqrt{21}c_{42}^{-2}c_{44}^1c_{53}^{-1}c_{55}^2 \\
&-60\sqrt{35}c_{42}^{-2}c_{44}^1c_{53}^{-2}c_{55}^3 - 180\sqrt{105}c_{42}^{-2}c_{44}^1c_{53}^{-3}c_{55}^4 + 1350c_{42}^{-2}c_{44}^0c_{53}^3c_{55}^{-1} \\
&-720\sqrt{5}c_{42}^{-2}c_{44}^0c_{53}^2c_{55}^0 + 258\sqrt{15}c_{42}^{-2}c_{44}^0c_{53}^1c_{55}^1 + 36\sqrt{35}c_{42}^{-2}c_{44}^0c_{53}^0c_{55}^2 \\
&-162\sqrt{70}c_{42}^{-2}c_{44}^0c_{53}^{-1}c_{55}^3 + 360\sqrt{14}c_{42}^{-2}c_{44}^0c_{53}^{-2}c_{55}^4 + 90\sqrt{210}c_{42}^{-2}c_{44}^0c_{53}^{-3}c_{55}^5 \\
&-315\sqrt{6}c_{42}^{-2}c_{44}^{-1}c_{53}^3c_{55}^0 + 231\sqrt{30}c_{42}^{-2}c_{44}^{-1}c_{53}^2c_{55}^1 - 294\sqrt{21}c_{42}^{-2}c_{44}^{-1}c_{53}^1c_{55}^2 \\
&+126\sqrt{42}c_{42}^{-2}c_{44}^{-1}c_{53}^0c_{55}^3 + 126\sqrt{7}c_{42}^{-2}c_{44}^{-1}c_{53}^{-1}c_{55}^4 - 630\sqrt{7}c_{42}^{-2}c_{44}^{-1}c_{53}^{-2}c_{55}^5 \\
&+84\sqrt{10}c_{42}^{-2}c_{44}^{-2}c_{53}^3c_{55}^1 - 56\sqrt{105}c_{42}^{-2}c_{44}^{-2}c_{53}^2c_{55}^2 + 336\sqrt{7}c_{42}^{-2}c_{44}^{-2}c_{53}^1c_{55}^3 \\
&-168\sqrt{42}c_{42}^{-2}c_{44}^{-2}c_{53}^0c_{55}^4 + 168\sqrt{35}c_{42}^{-2}c_{44}^{-2}c_{53}^{-1}c_{55}^5)/(c_{00}^0)^{10}
\end{aligned}
$$

$$\begin{aligned}
\Phi_{81} &= c_5(5,3)_4 c_4(2,2)_4 = \frac{1}{21}\sqrt{\frac{1}{1430}}(14\sqrt{105}(c_{42}^2)^2 c_{53}^1 c_{55}^{-5} - 42\sqrt{14}(c_{42}^2)^2 c_{53}^0 c_{55}^{-4}\\
&+28\sqrt{21}(c_{42}^2)^2 c_{53}^{-1} c_{55}^{-3} - 14\sqrt{35}(c_{42}^2)^2 c_{53}^{-2} c_{55}^{-2} + 7\sqrt{30}(c_{42}^2)^2 c_{53}^{-3} c_{55}^{-1}\\
&-35\sqrt{42}c_{42}^1 c_{42}^2 c_{53}^2 c_{55}^{-5} + 7\sqrt{42}c_{42}^1 c_{42}^2 c_{53}^1 c_{55}^{-4} + 42\sqrt{7}c_{42}^1 c_{42}^2 c_{53}^0 c_{55}^{-3}\\
&-49\sqrt{14}c_{42}^1 c_{42}^2 c_{53}^{-1} c_{55}^{-2} + 77\sqrt{5}c_{42}^1 c_{42}^2 c_{53}^{-2} c_{55}^{-1} - 105 c_{42}^1 c_{42}^2 c_{53}^{-3} c_{55}^0 + 30\sqrt{7}(c_{42}^1)^2 c_{53}^3 c_{55}^{-5}\\
&+8\sqrt{105}(c_{42}^1)^2 c_{53}^2 c_{55}^{-4} - 18\sqrt{21}(c_{42}^1)^2 c_{53}^1 c_{55}^{-3} + 2\sqrt{42}(c_{42}^1)^2 c_{53}^0 c_{55}^{-2} + 43\sqrt{2}(c_{42}^1)^2 c_{53}^{-1} c_{55}^{-1}\\
&-40\sqrt{6}(c_{42}^1)^2 c_{53}^{-2} c_{55}^0 + 15\sqrt{30}(c_{42}^1)^2 c_{53}^{-3} c_{55}^1 + 15\sqrt{42}c_{42}^0 c_{42}^2 c_{53}^3 c_{55}^{-5}\\
&+12\sqrt{70}c_{42}^0 c_{42}^2 c_{53}^2 c_{55}^{-4} - 27\sqrt{14}c_{42}^0 c_{42}^2 c_{53}^1 c_{55}^{-3} + 6\sqrt{7}c_{42}^0 c_{42}^2 c_{53}^0 c_{55}^{-2}\\
&+43\sqrt{3}c_{42}^0 c_{42}^2 c_{53}^{-1} c_{55}^{-1} - 120 c_{42}^0 c_{42}^2 c_{53}^{-2} c_{55}^0 + 45\sqrt{5}c_{42}^0 c_{42}^2 c_{53}^{-3} c_{55}^1\\
&-18\sqrt{105}c_{42}^0 c_{42}^1 c_{53}^3 c_{55}^{-4} - 6\sqrt{35}c_{42}^0 c_{42}^1 c_{53}^2 c_{55}^{-3} + 32\sqrt{21}c_{42}^0 c_{42}^1 c_{53}^1 c_{55}^{-2}\\
&-114 c_{42}^0 c_{42}^1 c_{53}^0 c_{55}^{-1} - 3\sqrt{10}c_{42}^0 c_{42}^1 c_{53}^{-1} c_{55}^0 + 25\sqrt{30}c_{42}^0 c_{42}^1 c_{53}^{-2} c_{55}^1\\
&-30\sqrt{35}c_{42}^0 c_{42}^1 c_{53}^{-3} c_{55}^2 + 18\sqrt{35}(c_{42}^0)^2 c_{53}^3 c_{55}^{-3} - 6\sqrt{35}(c_{42}^0)^2 c_{53}^2 c_{55}^{-2} - 33\sqrt{2}(c_{42}^0)^2 c_{53}^1 c_{55}^{-1}\\
&+36\sqrt{5}(c_{42}^0)^2 c_{53}^0 c_{55}^0 - 33\sqrt{2}(c_{42}^0)^2 c_{53}^{-1} c_{55}^1 - 6\sqrt{35}(c_{42}^0)^2 c_{53}^{-2} c_{55}^2 + 18\sqrt{35}(c_{42}^0)^2 c_{53}^{-3} c_{55}^3\\
&-9\sqrt{70}c_{42}^{-1} c_{42}^2 c_{53}^3 c_{55}^{-4} - \sqrt{210}c_{42}^{-1} c_{42}^2 c_{53}^2 c_{55}^{-3} + 16\sqrt{14}c_{42}^{-1} c_{42}^2 c_{53}^1 c_{55}^{-2}\\
&-19\sqrt{6}c_{42}^{-1} c_{42}^2 c_{53}^0 c_{55}^{-1} - \sqrt{15}c_{42}^{-1} c_{42}^2 c_{53}^{-1} c_{55}^0 + 25\sqrt{5}c_{42}^{-1} c_{42}^2 c_{53}^{-2} c_{55}^1\\
&-5\sqrt{210}c_{42}^{-1} c_{42}^2 c_{53}^{-3} c_{55}^2 + 24\sqrt{35}c_{42}^{-1} c_{42}^1 c_{53}^3 c_{55}^{-3} - 8\sqrt{35}c_{42}^{-1} c_{42}^1 c_{53}^2 c_{55}^{-2}\\
&-44\sqrt{2}c_{42}^{-1} c_{42}^1 c_{53}^1 c_{55}^{-1} + 48\sqrt{5}c_{42}^{-1} c_{42}^1 c_{53}^0 c_{55}^0 - 44\sqrt{2}c_{42}^{-1} c_{42}^1 c_{53}^{-1} c_{55}^1\\
&-8\sqrt{35}c_{42}^{-1} c_{42}^1 c_{53}^{-2} c_{55}^2 + 24\sqrt{35}c_{42}^{-1} c_{42}^1 c_{53}^{-3} c_{55}^3 - 30\sqrt{35}c_{42}^{-1} c_{42}^0 c_{53}^3 c_{55}^{-2}\\
&+25\sqrt{30}c_{42}^{-1} c_{42}^0 c_{53}^2 c_{55}^{-1} - 3\sqrt{10}c_{42}^{-1} c_{42}^0 c_{53}^1 c_{55}^0 - 114 c_{42}^{-1} c_{42}^0 c_{53}^0 c_{55}^1\\
&+32\sqrt{21}c_{42}^{-1} c_{42}^0 c_{53}^{-1} c_{55}^2 - 6\sqrt{35}c_{42}^{-1} c_{42}^0 c_{53}^{-2} c_{55}^3 - 18\sqrt{105}c_{42}^{-1} c_{42}^0 c_{53}^{-3} c_{55}^4\\
&+15\sqrt{30}(c_{42}^{-1})^2 c_{53}^3 c_{55}^{-1} - 40\sqrt{6}(c_{42}^{-1})^2 c_{53}^2 c_{55}^0 + 43\sqrt{2}(c_{42}^{-1})^2 c_{53}^1 c_{55}^1 + 2\sqrt{42}(c_{42}^{-1})^2 c_{53}^0 c_{55}^2\\
&-18\sqrt{21}(c_{42}^{-1})^2 c_{53}^{-1} c_{55}^3 + 8\sqrt{105}(c_{42}^{-1})^2 c_{53}^{-2} c_{55}^4 + 30\sqrt{7}(c_{42}^{-1})^2 c_{53}^{-3} c_{55}^5 + 6\sqrt{35}c_{42}^{-2} c_{42}^2 c_{53}^3 c_{55}^{-3}\\
&-2\sqrt{35}c_{42}^{-2} c_{42}^2 c_{53}^2 c_{55}^{-2} - 11\sqrt{2}c_{42}^{-2} c_{42}^2 c_{53}^1 c_{55}^{-1} + 12\sqrt{5}c_{42}^{-2} c_{42}^2 c_{53}^0 c_{55}^0\\
&-11\sqrt{2}c_{42}^{-2} c_{42}^2 c_{53}^{-1} c_{55}^1 - 2\sqrt{35}c_{42}^{-2} c_{42}^2 c_{53}^{-2} c_{55}^2 + 6\sqrt{35}c_{42}^{-2} c_{42}^2 c_{53}^{-3} c_{55}^3\\
&-5\sqrt{210}c_{42}^{-2} c_{42}^1 c_{53}^3 c_{55}^{-2} + 25\sqrt{5}c_{42}^{-2} c_{42}^1 c_{53}^2 c_{55}^{-1} - \sqrt{15}c_{42}^{-2} c_{42}^1 c_{53}^1 c_{55}^0\\
&-19\sqrt{6}c_{42}^{-2} c_{42}^1 c_{53}^0 c_{55}^1 + 16\sqrt{14}c_{42}^{-2} c_{42}^1 c_{53}^{-1} c_{55}^2 - \sqrt{210}c_{42}^{-2} c_{42}^1 c_{53}^{-2} c_{55}^3\\
&-9\sqrt{70}c_{42}^{-2} c_{42}^1 c_{53}^{-3} c_{55}^4 + 45\sqrt{5}c_{42}^{-2} c_{42}^0 c_{53}^3 c_{55}^{-1} - 120 c_{42}^{-2} c_{42}^0 c_{53}^2 c_{55}^0 + 43\sqrt{3}c_{42}^{-2} c_{42}^0 c_{53}^1 c_{55}^1\\
&+6\sqrt{7}c_{42}^{-2} c_{42}^0 c_{53}^0 c_{55}^2 - 27\sqrt{14}c_{42}^{-2} c_{42}^0 c_{53}^{-1} c_{55}^3 + 12\sqrt{70}c_{42}^{-2} c_{42}^0 c_{53}^{-2} c_{55}^4\\
&+15\sqrt{42}c_{42}^{-2} c_{42}^0 c_{53}^{-3} c_{55}^5 - 105 c_{42}^{-2} c_{42}^{-1} c_{53}^3 c_{55}^0 + 77\sqrt{5}c_{42}^{-2} c_{42}^{-1} c_{53}^2 c_{55}^1\\
&-49\sqrt{14}c_{42}^{-2} c_{42}^{-1} c_{53}^1 c_{55}^2 + 42\sqrt{7}c_{42}^{-2} c_{42}^{-1} c_{53}^0 c_{55}^3 + 7\sqrt{42}c_{42}^{-2} c_{42}^{-1} c_{53}^{-1} c_{55}^4\\
&-35\sqrt{42}c_{42}^{-2} c_{42}^{-1} c_{53}^{-2} c_{55}^5 + 7\sqrt{30}(c_{42}^{-2})^2 c_{53}^3 c_{55}^1 - 14\sqrt{35}(c_{42}^{-2})^2 c_{53}^2 c_{55}^2\\
&+28\sqrt{21}(c_{42}^{-2})^2 c_{53}^1 c_{55}^3 - 42\sqrt{14}(c_{42}^{-2})^2 c_{53}^0 c_{55}^4 + 14\sqrt{105}(c_{42}^{-2})^2 c_{53}^{-1} c_{55}^5)/(c_{00}^0)^{10}
\end{aligned}$$

$$\Phi_{82} = c_5(3,3)_4 c_4(2,2)_4 = \frac{1}{21}\sqrt{\frac{1}{55}}(-35(c_{42}^2)^2(c_{53}^{-2})^2 + 14\sqrt{15}(c_{42}^2)^2 c_{53}^{-3} c_{53}^{-1}$$
$$+14\sqrt{10}c_{42}^1 c_{42}^2 c_{53}^{-2} c_{53}^{-1} - 42\sqrt{5}c_{42}^1 c_{42}^2 c_{53}^{-3} c_{53}^0 - 20(c_{42}^1)^2(c_{53}^{-1})^2 + 2\sqrt{30}(c_{42}^1)^2 c_{53}^{-2} c_{53}^0$$
$$+12\sqrt{15}(c_{42}^1)^2 c_{53}^{-3} c_{53}^1 - 10\sqrt{6}c_{42}^0 c_{42}^2(c_{53}^{-1})^2 + 6\sqrt{5}c_{42}^0 c_{42}^2 c_{53}^{-2} c_{53}^0 + 18\sqrt{10}c_{42}^0 c_{42}^2 c_{53}^{-3} c_{53}^1$$
$$+30\sqrt{2}c_{42}^0 c_{42}^1 c_{53}^{-1} c_{53}^0 - 16\sqrt{15}c_{42}^0 c_{42}^1 c_{53}^{-2} c_{53}^1 - 60c_{42}^0 c_{42}^1 c_{53}^{-3} c_{53}^2 - 18(c_{42}^0)^2(c_{53}^0)^2$$
$$+6(c_{42}^0)^2 c_{53}^{-1} c_{53}^1 + 42(c_{42}^0)^2 c_{53}^{-2} c_{53}^2 + 18(c_{42}^0)^2 c_{53}^{-3} c_{53}^3 + 10\sqrt{3}c_{42}^{-1} c_{42}^2 c_{53}^{-1} c_{53}^0$$
$$-8\sqrt{10}c_{42}^{-1} c_{42}^2 c_{53}^{-2} c_{53}^1 - 10\sqrt{6}c_{42}^{-1} c_{42}^2 c_{53}^{-3} c_{53}^2 - 24c_{42}^{-1} c_{42}^1(c_{53}^0)^2 + 8c_{42}^{-1} c_{42}^1 c_{53}^{-1} c_{53}^1$$
$$+56c_{42}^{-1} c_{42}^1 c_{53}^{-2} c_{53}^2 + 24c_{42}^{-1} c_{42}^1 c_{53}^{-3} c_{53}^3 + 30\sqrt{2}c_{42}^{-1} c_{42}^0 c_{53}^0 c_{53}^1 - 16\sqrt{15}c_{42}^{-1} c_{42}^0 c_{53}^{-1} c_{53}^2$$
$$-60c_{42}^{-1} c_{53}^{-2} c_{53}^3 - 20(c_{42}^{-1})^2(c_{53}^1)^2 + 2\sqrt{30}(c_{42}^{-1})^2 c_{53}^0 c_{53}^2 + 12\sqrt{15}(c_{42}^{-1})^2 c_{53}^{-1} c_{53}^3$$
$$-6c_{42}^{-2} c_{42}^2(c_{53}^0)^2 + 2c_{42}^{-2} c_{42}^2 c_{53}^{-1} c_{53}^1 + 14c_{42}^{-2} c_{42}^2 c_{53}^{-2} c_{53}^2 + 6c_{42}^{-2} c_{42}^2 c_{53}^{-3} c_{53}^3$$
$$+10\sqrt{3}c_{42}^{-2} c_{42}^1 c_{53}^0 c_{53}^1 - 8\sqrt{10}c_{42}^{-2} c_{42}^1 c_{53}^{-1} c_{53}^2 - 10\sqrt{6}c_{42}^{-2} c_{42}^1 c_{53}^{-2} c_{53}^3 - 10\sqrt{6}c_{42}^{-2} c_{42}^0(c_{53}^1)^2$$
$$+6\sqrt{5}c_{42}^{-2} c_{42}^0 c_{53}^0 c_{53}^2 + 18\sqrt{10}c_{42}^{-2} c_{42}^0 c_{53}^{-1} c_{53}^3 + 14\sqrt{10}c_{42}^{-2} c_{42}^{-1} c_{53}^1 c_{53}^2$$
$$-42\sqrt{5}c_{42}^{-2} c_{42}^{-1} c_{53}^0 c_{53}^3 - 35(c_{42}^{-2})^2(c_{53}^2)^2 + 14\sqrt{15}(c_{42}^{-2})^2 c_{53}^1 c_{53}^3)/(c_{00}^0)^{10}$$

$$\Phi_{83} = c_5^2(5,5)_2 = \frac{2}{429}\sqrt{\frac{1}{5}}(25(c_{55}^0)^4 - 100c_{55}^{-1}(c_{55}^0)^2 c_{55}^1 + 156(c_{55}^{-1})^2(c_{55}^1)^2$$
$$-8\sqrt{210}(c_{55}^{-1})^2 c_{55}^0 c_{55}^2 + 20\sqrt{42}(c_{55}^{-1})^3 c_{55}^3 - 8\sqrt{210}c_{55}^{-2} c_{55}^0(c_{55}^1)^2 + 340c_{55}^{-2}(c_{55}^0)^2 c_{55}^2$$
$$-192c_{55}^{-2} c_{55}^{-1} c_{55}^1 c_{55}^2 - 132\sqrt{5}c_{55}^{-2} c_{55}^{-1} c_{55}^0 c_{55}^3 - 60\sqrt{3}c_{55}^{-2}(c_{55}^{-1})^2 c_{55}^4 + 36(c_{55}^{-2})^2(c_{55}^2)^2$$
$$+20\sqrt{42}(c_{55}^{-2})^2 c_{55}^1 c_{55}^3 + 24\sqrt{70}(c_{55}^{-2})^2 c_{55}^0 c_{55}^4 + 20\sqrt{42}c_{55}^{-3}(c_{55}^1)^3 - 132\sqrt{5}c_{55}^{-3} c_{55}^0 c_{55}^1 c_{55}^2$$
$$-10c_{55}^{-3}(c_{55}^0)^2 c_{55}^3 + 20\sqrt{42}c_{55}^{-3} c_{55}^{-1}(c_{55}^2)^2 + 242c_{55}^{-3} c_{55}^{-1} c_{55}^1 c_{55}^3 + 14\sqrt{15}c_{55}^{-3} c_{55}^{-1} c_{55}^0 c_{55}^4$$
$$+30\sqrt{5}c_{55}^{-3}(c_{55}^{-1})^2 c_{55}^5 - 212c_{55}^{-3} c_{55}^{-2} c_{55}^2 c_{55}^3 - 90\sqrt{14}c_{55}^{-3} c_{55}^{-2} c_{55}^1 c_{55}^4$$
$$-20\sqrt{42}c_{55}^{-3} c_{55}^{-2} c_{55}^0 c_{55}^5 + (c_{55}^{-3})^2(c_{55}^3)^2 + 140\sqrt{3}(c_{55}^{-3})^2 c_{55}^2 c_{55}^4 + 8\sqrt{210}(c_{55}^{-3})^2 c_{55}^1 c_{55}^5$$
$$-60\sqrt{3}c_{55}^{-4}(c_{55}^1)^2 c_{55}^2 + 24\sqrt{70}c_{55}^{-4} c_{55}^0(c_{55}^2)^2 + 14\sqrt{15}c_{55}^{-4} c_{55}^0 c_{55}^1 c_{55}^3 - 60c_{55}^{-4}(c_{55}^0)^2 c_{55}^4$$
$$-90\sqrt{14}c_{55}^{-4} c_{55}^{-1} c_{55}^2 c_{55}^3 + 108c_{55}^{-4} c_{55}^{-1} c_{55}^1 c_{55}^4 - 30\sqrt{3}c_{55}^{-4} c_{55}^{-1} c_{55}^0 c_{55}^5$$
$$+140\sqrt{3}c_{55}^{-4} c_{55}^{-2}(c_{55}^3)^2 + 72c_{55}^{-4} c_{55}^{-2} c_{55}^2 c_{55}^4 + 18\sqrt{70}c_{55}^{-4} c_{55}^{-2} c_{55}^1 c_{55}^5 - 282c_{55}^{-4} c_{55}^{-3} c_{55}^3 c_{55}^4$$
$$-84\sqrt{15}c_{55}^{-4} c_{55}^{-3} c_{55}^2 c_{55}^5 + 36(c_{55}^{-4})^2(c_{55}^4)^2 + 126\sqrt{5}(c_{55}^{-4})^2 c_{55}^3 c_{55}^5 + 30\sqrt{5}c_{55}^{-5}(c_{55}^1)^2 c_{55}^3$$
$$-20\sqrt{42}c_{55}^{-5} c_{55}^0 c_{55}^2 c_{55}^3 - 30\sqrt{3}c_{55}^{-5} c_{55}^0 c_{55}^1 c_{55}^4 + 150c_{55}^{-5}(c_{55}^0)^2 c_{55}^5 + 8\sqrt{210}c_{55}^{-5} c_{55}^{-1}(c_{55}^3)^2$$
$$+18\sqrt{70}c_{55}^{-5} c_{55}^{-1} c_{55}^2 c_{55}^4 - 270c_{55}^{-5} c_{55}^{-1} c_{55}^1 c_{55}^5 - 84\sqrt{15}c_{55}^{-5} c_{55}^{-2} c_{55}^3 c_{55}^4$$
$$+180c_{55}^{-5} c_{55}^{-2} c_{55}^2 c_{55}^5 + 126\sqrt{5}c_{55}^{-5} c_{55}^{-3}(c_{55}^4)^2 + 30c_{55}^{-5} c_{55}^{-3} c_{55}^3 c_{55}^5 - 450c_{55}^{-5} c_{55}^{-4} c_{55}^4 c_{55}^5$$
$$+225(c_{55}^{-5})^2(c_{55}^5)^2)/(c_{00}^0)^{32/3}$$

$$\begin{aligned}
\Phi_{84} &= c_5(5,5)_2 c_5(5,3)_2 = \frac{1}{33}\sqrt{\frac{1}{910}}(5\sqrt{3}c_{53}^3(c_{55}^{-1})^3 - 3\sqrt{70}c_{53}^3 c_{55}^{-2}c_{55}^{-1}c_{55}^0 + 14\sqrt{3}c_{53}^3(c_{55}^{-2})^2 c_{55}^1 \\
&+ 10\sqrt{14}c_{53}^3 c_{55}^{-3}(c_{55}^0)^2 - 14\sqrt{14}c_{53}^3 c_{55}^{-3}c_{55}^{-1}c_{55}^1 + 2\sqrt{14}c_{53}^3 c_{55}^{-3}c_{55}^{-2}c_{55}^2 \\
&- 2\sqrt{14}c_{53}^3(c_{55}^{-3})^2 c_{55}^3 - 2\sqrt{210}c_{53}^3 c_{55}^{-4}c_{55}^0 c_{55}^1 + 72 c_{53}^3 c_{55}^{-4}c_{55}^{-1}c_{55}^2 - 13\sqrt{42}c_{53}^3 c_{55}^{-4}c_{55}^{-2}c_{55}^3 \\
&+ 30\sqrt{14}c_{53}^3 c_{55}^{-4}c_{55}^{-3}c_{55}^4 - 18\sqrt{70}c_{53}^3(c_{55}^{-4})^2 c_{55}^5 + 15\sqrt{70}c_{53}^3 c_{55}^{-5}(c_{55}^1)^2 \\
&- 140\sqrt{3}c_{53}^3 c_{55}^{-5}c_{55}^0 c_{55}^2 + 58\sqrt{15}c_{53}^3 c_{55}^{-5}c_{55}^{-1}c_{55}^3 - 15\sqrt{210}c_{53}^3 c_{55}^{-5}c_{55}^{-2}c_{55}^4 \\
&+ 60\sqrt{14}c_{53}^3 c_{55}^{-5}c_{55}^{-3}c_{55}^5 - \sqrt{15}c_{53}^2(c_{55}^{-1})^2 c_{55}^0 - 5\sqrt{14}c_{53}^2 c_{55}^{-2}(c_{55}^0)^2 + 15\sqrt{14}c_{53}^2 c_{55}^{-2}c_{55}^{-1}c_{55}^1 \\
&- 18\sqrt{14}c_{53}^2(c_{55}^{-2})^2 c_{55}^2 - 16\sqrt{3}c_{53}^2 c_{55}^{-3}c_{55}^{-1}c_{55}^2 + 43\sqrt{14}c_{53}^2 c_{55}^{-3}c_{55}^{-2}c_{55}^3 \\
&- 28\sqrt{42}c_{53}^2(c_{55}^{-3})^2 c_{55}^4 - 15\sqrt{42}c_{53}^2 c_{55}^{-4}(c_{55}^1)^2 + 96\sqrt{5}c_{53}^2 c_{55}^{-4}c_{55}^0 c_{55}^2 - 252 c_{53}^2 c_{55}^{-4}c_{55}^{-1}c_{55}^3 \\
&+ 54\sqrt{14}c_{53}^2 c_{55}^{-4}c_{55}^{-2}c_{55}^4 + 6\sqrt{210}c_{53}^2 c_{55}^{-4}c_{55}^{-3}c_{55}^5 - 10\sqrt{3}c_{53}^2 c_{55}^{-5}c_{55}^0 c_{55}^3 \\
&+ 36\sqrt{5}c_{53}^2 c_{55}^{-5}c_{55}^{-1}c_{55}^4 - 45\sqrt{14}c_{53}^2 c_{55}^{-5}c_{55}^{-2}c_{55}^5 + 20\sqrt{5}c_{53}^1 c_{55}^{-1}(c_{55}^0)^2 - 39\sqrt{5}c_{53}^1(c_{55}^{-1})^2 c_{55}^1 \\
&- 5\sqrt{42}c_{53}^1 c_{55}^{-2}c_{55}^0 c_{55}^1 + 78\sqrt{5}c_{53}^1 c_{55}^{-2}c_{55}^{-1}c_{55}^2 - 10\sqrt{210}c_{53}^1(c_{55}^{-2})^2 c_{55}^3 \\
&+ 9\sqrt{210}c_{53}^1 c_{55}^{-3}(c_{55}^1)^2 - 240 c_{53}^1 c_{55}^{-3}c_{55}^0 c_{55}^2 + 50\sqrt{5}c_{53}^1 c_{55}^{-3}c_{55}^{-1}c_{55}^3 + 9\sqrt{70}c_{53}^1 c_{55}^{-3}c_{55}^{-2}c_{55}^4 \\
&+ 10\sqrt{42}c_{53}^1(c_{55}^{-3})^2 c_{55}^5 - 12\sqrt{15}c_{53}^1 c_{55}^{-4}c_{55}^1 c_{55}^2 + 70\sqrt{3}c_{53}^1 c_{55}^{-4}c_{55}^0 c_{55}^3 \\
&- 36\sqrt{5}c_{53}^1 c_{55}^{-4}c_{55}^{-1}c_{55}^4 - 45\sqrt{14}c_{53}^1 c_{55}^{-5}c_{55}^{-2}c_{55}^5 + 30 c_{53}^1 c_{55}^{-5}c_{55}^1 c_{55}^3 \\
&- 30\sqrt{15}c_{53}^1 c_{55}^{-5}c_{55}^0 c_{55}^4 + 90\sqrt{5}c_{53}^1 c_{55}^{-5}c_{55}^{-1}c_{55}^5 - 50\sqrt{2}c_{53}^0(c_{55}^0)^3 + 130\sqrt{2}c_{53}^0 c_{55}^{-1}c_{55}^0 c_{55}^1 \\
&- 13\sqrt{105}c_{53}^0(c_{55}^{-1})^2 c_{55}^2 - 13\sqrt{105}c_{53}^0 c_{55}^{-2}(c_{55}^1)^2 + 80\sqrt{2}c_{53}^0 c_{55}^{-2}c_{55}^0 c_{55}^2 \\
&+ 12\sqrt{10}c_{53}^0 c_{55}^{-2}c_{55}^{-1}c_{55}^3 + 12\sqrt{35}c_{53}^0(c_{55}^{-2})^2 c_{55}^4 + 12\sqrt{10}c_{53}^0 c_{55}^{-3}c_{55}^1 c_{55}^2 \\
&+ 10\sqrt{2}c_{53}^0 c_{55}^{-3}c_{55}^0 c_{55}^3 - 28\sqrt{30}c_{53}^0 c_{55}^{-3}c_{55}^{-1}c_{55}^4 - 10\sqrt{21}c_{53}^0 c_{55}^{-3}c_{55}^{-2}c_{55}^5 \\
&+ 12\sqrt{35}c_{53}^0 c_{55}^{-4}(c_{55}^2)^2 - 28\sqrt{30}c_{53}^0 c_{55}^{-4}c_{55}^1 c_{55}^3 + 60\sqrt{2}c_{53}^0 c_{55}^{-4}c_{55}^0 c_{55}^4 \\
&+ 60\sqrt{6}c_{53}^0 c_{55}^{-4}c_{55}^{-1}c_{55}^5 - 10\sqrt{21}c_{53}^0 c_{55}^{-5}c_{55}^2 c_{55}^3 + 60\sqrt{6}c_{53}^0 c_{55}^{-5}c_{55}^1 c_{55}^4 \\
&- 150\sqrt{2}c_{53}^0 c_{55}^{-5}c_{55}^0 c_{55}^5 + 20\sqrt{5}c_{53}^{-1}(c_{55}^0)^2 c_{55}^1 - 39\sqrt{5}c_{53}^{-1}c_{55}^{-1}(c_{55}^1)^2 - 5\sqrt{42}c_{53}^{-1}c_{55}^{-1}c_{55}^0 c_{55}^2 \\
&+ 9\sqrt{210}c_{53}^{-1}(c_{55}^{-1})^2 c_{55}^3 + 78\sqrt{5}c_{53}^{-1}c_{55}^{-2}c_{55}^1 c_{55}^2 - 240 c_{53}^{-1}c_{55}^{-2}c_{55}^0 c_{55}^3 \\
&- 12\sqrt{15}c_{53}^{-1}c_{55}^{-2}c_{55}^{-1}c_{55}^4 - 10\sqrt{210}c_{53}^{-1}c_{55}^{-3}(c_{55}^2)^2 + 50\sqrt{5}c_{53}^{-1}c_{55}^{-3}c_{55}^1 c_{55}^3 \\
&+ 70\sqrt{3}c_{53}^{-1}c_{55}^{-3}c_{55}^0 c_{55}^4 + 30 c_{53}^{-1}c_{55}^{-3}c_{55}^{-1}c_{55}^5 + 9\sqrt{70}c_{53}^{-1}c_{55}^{-4}c_{55}^2 c_{55}^3 - 36\sqrt{5}c_{53}^{-1}c_{55}^{-4}c_{55}^1 c_{55}^4 \\
&- 30\sqrt{15}c_{53}^{-1}c_{55}^{-4}c_{55}^0 c_{55}^5 + 10\sqrt{42}c_{53}^{-1}c_{55}^{-5}(c_{55}^3)^2 - 45\sqrt{14}c_{53}^{-1}c_{55}^{-5}c_{55}^2 c_{55}^4 \\
&+ 90\sqrt{5}c_{53}^{-1}c_{55}^{-5}c_{55}^1 c_{55}^5 - \sqrt{15}c_{53}^{-2}c_{55}^0(c_{55}^1)^2 - 5\sqrt{14}c_{53}^{-2}(c_{55}^0)^2 c_{55}^2 + 15\sqrt{14}c_{53}^{-2}c_{55}^{-1}c_{55}^1 c_{55}^2 \\
&- 15\sqrt{42}c_{53}^{-2}(c_{55}^{-1})^2 c_{55}^4 - 18\sqrt{14}c_{53}^{-2}c_{55}^{-2}(c_{55}^2)^2 - 16\sqrt{3}c_{53}^{-2}c_{55}^{-2}c_{55}^1 c_{55}^3 \\
&+ 96\sqrt{5}c_{53}^{-2}c_{55}^{-2}c_{55}^0 c_{55}^4 + 43\sqrt{14}c_{53}^{-2}c_{55}^{-3}c_{55}^2 c_{55}^3 - 252 c_{53}^{-2}c_{55}^{-3}c_{55}^1 c_{55}^4 \\
&- 10\sqrt{3}c_{53}^{-2}c_{55}^{-3}c_{55}^0 c_{55}^5 - 28\sqrt{42}c_{53}^{-2}c_{55}^{-4}(c_{55}^3)^2 + 54\sqrt{14}c_{53}^{-2}c_{55}^{-4}c_{55}^2 c_{55}^4 \\
&+ 36\sqrt{5}c_{53}^{-2}c_{55}^{-4}c_{55}^1 c_{55}^5 + 6\sqrt{210}c_{53}^{-2}c_{55}^{-5}c_{55}^3 c_{55}^4 - 45\sqrt{14}c_{53}^{-2}c_{55}^{-5}c_{55}^2 c_{55}^5 + 5\sqrt{3}c_{53}^{-3}(c_{55}^1)^3 \\
&- 3\sqrt{70}c_{53}^{-3}c_{55}^0 c_{55}^1 c_{55}^2 + 10\sqrt{14}c_{53}^{-3}(c_{55}^0)^2 c_{55}^3 + 14\sqrt{3}c_{53}^{-3}c_{55}^{-1}(c_{55}^2)^2 \\
&- 14\sqrt{14}c_{53}^{-3}c_{55}^{-1}c_{55}^1 c_{55}^3 - 2\sqrt{210}c_{53}^{-3}c_{55}^{-1}c_{55}^0 c_{55}^4 + 15\sqrt{70}c_{53}^{-3}(c_{55}^{-1})^2 c_{55}^5 \\
&+ 2\sqrt{14}c_{53}^{-3}c_{55}^{-2}c_{55}^2 c_{55}^3 + 72 c_{53}^{-3}c_{55}^{-2}c_{55}^1 c_{55}^4 - 140\sqrt{3}c_{53}^{-3}c_{55}^{-2}c_{55}^0 c_{55}^5 - 2\sqrt{14}c_{53}^{-3}c_{55}^{-3}(c_{55}^3)^2 \\
&- 13\sqrt{42}c_{53}^{-3}c_{55}^{-3}c_{55}^2 c_{55}^4 + 58\sqrt{15}c_{53}^{-3}c_{55}^{-3}c_{55}^1 c_{55}^5 + 30\sqrt{14}c_{53}^{-3}c_{55}^{-4}c_{55}^3 c_{55}^4 \\
&- 15\sqrt{210}c_{53}^{-3}c_{55}^{-4}c_{55}^2 c_{55}^5 - 18\sqrt{70}c_{53}^{-3}c_{55}^{-5}(c_{55}^4)^2 + 60\sqrt{14}c_{53}^{-3}c_{55}^{-5}c_{55}^3 c_{55}^5)/(c_{00}^0)^{32/3}
\end{aligned}$$

$$\Phi_{85} = c_5(5,5)_2 c_5(3,3)_2 = \frac{1}{3}\sqrt{\frac{2}{5005}}(15(c_{53}^1)^2(c_{55}^{-1})^2 - 2\sqrt{210}(c_{53}^1)^2 c_{55}^{-2}c_{55}^0 + 4\sqrt{42}(c_{53}^1)^2 c_{55}^{-3}c_{55}^1$$
$$-12\sqrt{3}(c_{53}^1)^2 c_{55}^{-4}c_{55}^2 + 6\sqrt{5}(c_{53}^1)^2 c_{55}^{-5}c_{55}^3 - 5\sqrt{30}c_{53}^0 c_{53}^2(c_{55}^{-1})^2 + 20\sqrt{7}c_{53}^0 c_{53}^2 c_{55}^{-2}c_{55}^0$$
$$-8\sqrt{35}c_{53}^0 c_{53}^2 c_{55}^{-3}c_{55}^1 + 12\sqrt{10}c_{53}^0 c_{53}^2 c_{55}^{-4}c_{55}^2 - 10\sqrt{6}c_{53}^0 c_{53}^2 c_{55}^{-5}c_{55}^3$$
$$-\sqrt{10}c_{53}^0 c_{53}^1 c_{55}^{-1}c_{55}^0 + 2\sqrt{21}c_{53}^0 c_{53}^1 c_{55}^{-2}c_{55}^1 - 10\sqrt{2}c_{53}^0 c_{53}^1 c_{55}^{-3}c_{55}^2 + 7\sqrt{6}c_{53}^0 c_{53}^1 c_{55}^{-4}c_{55}^3$$
$$-3\sqrt{30}c_{53}^0 c_{53}^1 c_{55}^{-5}c_{55}^4 + 10(c_{53}^0)^2(c_{55}^0)^2 - 18(c_{53}^0)^2 c_{55}^{-1}c_{55}^1 + 12(c_{53}^0)^2 c_{55}^{-2}c_{55}^2$$
$$-2(c_{53}^0)^2 c_{55}^{-3}c_{55}^3 - 12(c_{53}^0)^2 c_{55}^{-4}c_{55}^4 + 30(c_{53}^0)^2 c_{55}^{-5}c_{55}^5 + 5\sqrt{15}c_{53}^{-1}c_{53}^3(c_{55}^{-1})^2$$
$$-10\sqrt{14}c_{53}^{-1}c_{53}^3 c_{55}^{-2}c_{55}^0 + 4\sqrt{70}c_{53}^{-1}c_{53}^3 c_{55}^{-3}c_{55}^1 - 12\sqrt{5}c_{53}^{-1}c_{53}^3 c_{55}^{-4}c_{55}^2$$
$$+10\sqrt{3}c_{53}^{-1}c_{53}^3 c_{55}^{-5}c_{55}^3 + 5\sqrt{3}c_{53}^{-1}c_{53}^2 c_{55}^{-1}c_{55}^0 - 3\sqrt{70}c_{53}^{-1}c_{53}^2 c_{55}^{-2}c_{55}^1$$
$$+10\sqrt{15}c_{53}^{-1}c_{53}^2 c_{55}^{-3}c_{55}^2 - 21\sqrt{5}c_{53}^{-1}c_{53}^2 c_{55}^{-4}c_{55}^3 + 45c_{53}^{-1}c_{53}^2 c_{55}^{-5}c_{55}^4 - 15c_{53}^{-1}c_{53}^1(c_{55}^0)^2$$
$$+27c_{53}^{-1}c_{53}^1 c_{55}^{-1}c_{55}^1 - 18c_{53}^{-1}c_{53}^1 c_{55}^{-2}c_{55}^2 + 3c_{53}^{-1}c_{53}^1 c_{55}^{-3}c_{55}^3 + 18c_{53}^{-1}c_{53}^1 c_{55}^{-4}c_{55}^4$$
$$-45c_{53}^{-1}c_{53}^1 c_{55}^{-5}c_{55}^5 - \sqrt{10}c_{53}^{-1}c_{53}^0 c_{55}^0 c_{55}^1 + 2\sqrt{21}c_{53}^{-1}c_{53}^0 c_{55}^{-1}c_{55}^2 - 10\sqrt{2}c_{53}^{-1}c_{53}^0 c_{55}^{-2}c_{55}^3$$
$$+7\sqrt{6}c_{53}^{-1}c_{53}^0 c_{55}^{-3}c_{55}^4 - 3\sqrt{30}c_{53}^{-1}c_{53}^0 c_{55}^{-4}c_{55}^5 + 15(c_{53}^{-1})^2(c_{55}^1)^2 - 2\sqrt{210}(c_{53}^{-1})^2 c_{55}^0 c_{55}^2$$
$$+4\sqrt{42}(c_{53}^{-1})^2 c_{55}^{-1}c_{55}^3 - 12\sqrt{3}(c_{53}^{-1})^2 c_{55}^{-2}c_{55}^4 + 6\sqrt{5}(c_{53}^{-1})^2 c_{55}^{-3}c_{55}^5 - 5\sqrt{5}c_{53}^{-2}c_{53}^3 c_{55}^{-1}c_{55}^0$$
$$+5\sqrt{42}c_{53}^{-2}c_{53}^3 c_{55}^{-2}c_{55}^1 - 50c_{53}^{-2}c_{53}^3 c_{55}^{-3}c_{55}^2 + 35\sqrt{3}c_{53}^{-2}c_{53}^3 c_{55}^{-4}c_{55}^3 - 15\sqrt{15}c_{53}^{-2}c_{53}^3 c_{55}^{-5}c_{55}^4$$
$$+5\sqrt{3}c_{53}^{-2}c_{53}^1 c_{55}^0 c_{55}^1 - 3\sqrt{70}c_{53}^{-2}c_{53}^1 c_{55}^{-1}c_{55}^2 + 10\sqrt{15}c_{53}^{-2}c_{53}^1 c_{55}^{-2}c_{55}^3$$
$$-21\sqrt{5}c_{53}^{-2}c_{53}^1 c_{55}^{-3}c_{55}^4 + 45c_{53}^{-2}c_{53}^1 c_{55}^{-4}c_{55}^5 - 5\sqrt{30}c_{53}^{-2}c_{53}^0(c_{55}^1)^2 + 20\sqrt{7}c_{53}^{-2}c_{53}^0 c_{55}^0 c_{55}^2$$
$$-8\sqrt{35}c_{53}^{-2}c_{53}^0 c_{55}^{-1}c_{55}^3 + 12\sqrt{10}c_{53}^{-2}c_{53}^0 c_{55}^{-2}c_{55}^4 - 10\sqrt{6}c_{53}^{-2}c_{53}^0 c_{55}^{-3}c_{55}^5 + 25c_{53}^{-3}c_{53}^3(c_{55}^0)^2$$
$$-45c_{53}^{-3}c_{53}^3 c_{55}^{-1}c_{55}^1 + 30c_{53}^{-3}c_{53}^3 c_{55}^{-2}c_{55}^2 - 5c_{53}^{-3}c_{53}^3 c_{55}^{-3}c_{55}^3 - 30c_{53}^{-3}c_{53}^3 c_{55}^{-4}c_{55}^4$$
$$+75c_{53}^{-3}c_{53}^3 c_{55}^{-5}c_{55}^5 - 5\sqrt{5}c_{53}^{-3}c_{53}^2 c_{55}^0 c_{55}^1 + 5\sqrt{42}c_{53}^{-3}c_{53}^2 c_{55}^{-1}c_{55}^2 - 50c_{53}^{-3}c_{53}^2 c_{55}^{-2}c_{55}^3$$
$$+35\sqrt{3}c_{53}^{-3}c_{53}^2 c_{55}^{-3}c_{55}^4 - 15\sqrt{15}c_{53}^{-3}c_{53}^2 c_{55}^{-4}c_{55}^5 + 5\sqrt{15}c_{53}^{-3}c_{53}^1(c_{55}^1)^2$$
$$-10\sqrt{14}c_{53}^{-3}c_{53}^1 c_{55}^0 c_{55}^2 + 4\sqrt{70}c_{53}^{-3}c_{53}^1 c_{55}^{-1}c_{55}^3 - 12\sqrt{5}c_{53}^{-3}c_{53}^1 c_{55}^{-2}c_{55}^4$$
$$+10\sqrt{3}c_{53}^{-3}c_{53}^1 c_{55}^{-3}c_{55}^5)/(c_{00}^0)^{32/3}$$

$$\Phi_{86} = c_5(5,5)_2 c_5(3,1)_2 = \frac{1}{3}\sqrt{\frac{1}{5005}}(5\sqrt{3}c_{51}^1 c_{53}^1 (c_{55}^{-1})^2 - 2\sqrt{70}c_{51}^1 c_{53}^1 c_{55}^{-2}c_{55}^0$$
$$+4\sqrt{14}c_{51}^1 c_{53}^1 c_{55}^{-3}c_{55}^1 - 12c_{51}^1 c_{53}^1 c_{55}^{-4}c_{55}^2 + 2\sqrt{15}c_{51}^1 c_{53}^1 c_{55}^{-5}c_{55}^3 - \sqrt{30}c_{51}^1 c_{53}^0 c_{55}^{-1}c_{55}^0$$
$$+6\sqrt{7}c_{51}^1 c_{53}^0 c_{55}^{-2}c_{55}^1 - 10\sqrt{6}c_{51}^1 c_{53}^0 c_{55}^{-3}c_{55}^2 + 21\sqrt{2}c_{51}^1 c_{53}^0 c_{55}^{-4}c_{55}^3 - 9\sqrt{10}c_{51}^1 c_{53}^0 c_{55}^{-5}c_{55}^4$$
$$+10\sqrt{3}c_{51}^1 c_{53}^{-1}(c_{55}^0)^2 - 18\sqrt{3}c_{51}^1 c_{53}^{-1}c_{55}^{-1}c_{55}^1 + 12\sqrt{3}c_{51}^1 c_{53}^{-1}c_{55}^{-2}c_{55}^2 - 2\sqrt{3}c_{51}^1 c_{53}^{-1}c_{55}^{-3}c_{55}^3$$
$$-12\sqrt{3}c_{51}^1 c_{53}^{-1}c_{55}^{-4}c_{55}^4 + 30\sqrt{3}c_{51}^1 c_{53}^{-1}c_{55}^{-5}c_{55}^5 - 10c_{51}^1 c_{53}^{-2}c_{55}^0 c_{55}^1 + 2\sqrt{210}c_{51}^1 c_{53}^{-2}c_{55}^{-1}c_{55}^2$$
$$-20\sqrt{5}c_{51}^1 c_{53}^{-2}c_{55}^{-2}c_{55}^3 + 14\sqrt{15}c_{51}^1 c_{53}^{-2}c_{55}^{-3}c_{55}^4 - 30\sqrt{3}c_{51}^1 c_{53}^{-2}c_{55}^{-4}c_{55}^5$$
$$+15\sqrt{5}c_{51}^1 c_{53}^{-3}(c_{55}^1)^2 - 10\sqrt{42}c_{51}^1 c_{53}^{-3}c_{55}^0 c_{55}^2 + 4\sqrt{210}c_{51}^1 c_{53}^{-3}c_{55}^{-1}c_{55}^3$$
$$-12\sqrt{15}c_{51}^1 c_{53}^{-3}c_{55}^{-2}c_{55}^4 + 30c_{51}^1 c_{53}^{-3}c_{55}^{-3}c_{55}^5 - 5\sqrt{15}c_{51}^0 c_{53}^2 (c_{55}^{-1})^2 + 10\sqrt{14}c_{51}^0 c_{53}^2 c_{55}^{-2}c_{55}^0$$
$$-4\sqrt{70}c_{51}^0 c_{53}^2 c_{55}^{-3}c_{55}^1 + 12\sqrt{5}c_{51}^0 c_{53}^2 c_{55}^{-4}c_{55}^2 - 10\sqrt{3}c_{51}^0 c_{53}^2 c_{55}^{-5}c_{55}^3 + 4\sqrt{5}c_{51}^0 c_{53}^1 c_{55}^{-1}c_{55}^0$$
$$-4\sqrt{42}c_{51}^0 c_{53}^1 c_{55}^{-2}c_{55}^1 + 40c_{51}^0 c_{53}^1 c_{55}^{-3}c_{55}^2 - 28\sqrt{3}c_{51}^0 c_{53}^1 c_{55}^{-4}c_{55}^3 + 12\sqrt{15}c_{51}^0 c_{53}^1 c_{55}^{-5}c_{55}^4$$
$$-15\sqrt{2}c_{51}^0 c_{53}^0 (c_{55}^0)^2 + 27\sqrt{2}c_{51}^0 c_{53}^0 c_{55}^{-1}c_{55}^1 - 18\sqrt{2}c_{51}^0 c_{53}^0 c_{55}^{-2}c_{55}^2 + 3\sqrt{2}c_{51}^0 c_{53}^0 c_{55}^{-3}c_{55}^3$$
$$+18\sqrt{2}c_{51}^0 c_{53}^0 c_{55}^{-4}c_{55}^4 - 45\sqrt{2}c_{51}^0 c_{53}^0 c_{55}^{-5}c_{55}^5 + 4\sqrt{5}c_{51}^0 c_{53}^{-1}c_{55}^0 c_{55}^1 - 4\sqrt{42}c_{51}^0 c_{53}^{-1}c_{55}^{-1}c_{55}^2$$
$$+40c_{51}^0 c_{53}^{-1}c_{55}^{-2}c_{55}^3 - 28\sqrt{3}c_{51}^0 c_{53}^{-1}c_{55}^{-3}c_{55}^4 + 12\sqrt{15}c_{51}^0 c_{53}^{-1}c_{55}^{-4}c_{55}^5 - 5\sqrt{15}c_{51}^0 c_{53}^{-2}(c_{55}^1)^2$$
$$+10\sqrt{14}c_{51}^0 c_{53}^{-2}c_{55}^0 c_{55}^2 - 4\sqrt{70}c_{51}^0 c_{53}^{-2}c_{55}^{-1}c_{55}^3 + 12\sqrt{5}c_{51}^0 c_{53}^{-2}c_{55}^{-2}c_{55}^4$$
$$-10\sqrt{3}c_{51}^0 c_{53}^{-2}c_{55}^{-3}c_{55}^5 + 15\sqrt{5}c_{51}^{-1}c_{53}^3 (c_{55}^{-1})^2 - 10\sqrt{42}c_{51}^{-1}c_{53}^3 c_{55}^{-2}c_{55}^0$$
$$+4\sqrt{210}c_{51}^{-1}c_{53}^3 c_{55}^{-3}c_{55}^1 - 12\sqrt{15}c_{51}^{-1}c_{53}^3 c_{55}^{-4}c_{55}^2 + 30c_{51}^{-1}c_{53}^3 c_{55}^{-5}c_{55}^3 - 10c_{51}^{-1}c_{53}^2 c_{55}^{-1}c_{55}^0$$
$$+2\sqrt{210}c_{51}^{-1}c_{53}^2 c_{55}^{-2}c_{55}^1 - 20\sqrt{5}c_{51}^{-1}c_{53}^2 c_{55}^{-3}c_{55}^2 + 14\sqrt{15}c_{51}^{-1}c_{53}^2 c_{55}^{-4}c_{55}^3$$
$$-30\sqrt{3}c_{51}^{-1}c_{53}^2 c_{55}^{-5}c_{55}^4 + 10\sqrt{3}c_{51}^{-1}c_{53}^1 (c_{55}^0)^2 - 18\sqrt{3}c_{51}^{-1}c_{53}^1 c_{55}^{-1}c_{55}^1 + 12\sqrt{3}c_{51}^{-1}c_{53}^1 c_{55}^{-2}c_{55}^2$$
$$-2\sqrt{3}c_{51}^{-1}c_{53}^1 c_{55}^{-3}c_{55}^3 - 12\sqrt{3}c_{51}^{-1}c_{53}^1 c_{55}^{-4}c_{55}^4 + 30\sqrt{3}c_{51}^{-1}c_{53}^1 c_{55}^{-5}c_{55}^5 - \sqrt{30}c_{51}^{-1}c_{53}^0 c_{55}^0 c_{55}^1$$
$$+6\sqrt{7}c_{51}^{-1}c_{53}^0 c_{55}^{-1}c_{55}^2 - 10\sqrt{6}c_{51}^{-1}c_{53}^0 c_{55}^{-2}c_{55}^3 + 21\sqrt{2}c_{51}^{-1}c_{53}^0 c_{55}^{-3}c_{55}^4 - 9\sqrt{10}c_{51}^{-1}c_{53}^0 c_{55}^{-4}c_{55}^5$$
$$+5\sqrt{3}c_{51}^{-1}c_{53}^{-1}(c_{55}^1)^2 - 2\sqrt{70}c_{51}^{-1}c_{53}^{-1}c_{55}^0 c_{55}^2 + 4\sqrt{14}c_{51}^{-1}c_{53}^{-1}c_{55}^{-1}c_{55}^3 - 12c_{51}^{-1}c_{53}^{-1}c_{55}^{-2}c_{55}^4$$
$$+2\sqrt{15}c_{51}^{-1}c_{53}^{-1}c_{55}^{-3}c_{55}^5)/(c_{00}^0)^{32/3}$$

$$\Phi_{87} = c_5(5,5)_2 c_5(1,1)_2 = \frac{1}{3}\sqrt{\frac{1}{715}}(15(c_{51}^1)^2 (c_{55}^{-1})^2 - 2\sqrt{210}(c_{51}^1)^2 c_{55}^{-2}c_{55}^0 + 4\sqrt{42}(c_{51}^1)^2 c_{55}^{-3}c_{55}^1$$
$$-12\sqrt{3}(c_{51}^1)^2 c_{55}^{-4}c_{55}^2 + 6\sqrt{5}(c_{51}^1)^2 c_{55}^{-5}c_{55}^3 - 2\sqrt{15}c_{51}^0 c_{51}^1 c_{55}^{-1}c_{55}^0 + 6\sqrt{14}c_{51}^0 c_{51}^1 c_{55}^{-2}c_{55}^1$$
$$-20\sqrt{3}c_{51}^0 c_{51}^1 c_{55}^{-3}c_{55}^2 + 42c_{51}^0 c_{51}^1 c_{55}^{-4}c_{55}^3 - 18\sqrt{5}c_{51}^0 c_{51}^1 c_{55}^{-5}c_{55}^4 + 10(c_{51}^0)^2 (c_{55}^0)^2$$
$$-18(c_{51}^0)^2 c_{55}^{-1}c_{55}^1 + 12(c_{51}^0)^2 c_{55}^{-2}c_{55}^2 - 2(c_{51}^0)^2 c_{55}^{-3}c_{55}^3 - 12(c_{51}^0)^2 c_{55}^{-4}c_{55}^4$$
$$+30(c_{51}^0)^2 c_{55}^{-5}c_{55}^5 + 10c_{51}^{-1}c_{51}^1 (c_{55}^0)^2 - 18c_{51}^{-1}c_{51}^1 c_{55}^{-1}c_{55}^1 + 12c_{51}^{-1}c_{51}^1 c_{55}^{-2}c_{55}^2$$
$$-2c_{51}^{-1}c_{51}^1 c_{55}^{-3}c_{55}^3 - 12c_{51}^{-1}c_{51}^1 c_{55}^{-4}c_{55}^4 + 30c_{51}^{-1}c_{51}^1 c_{55}^{-5}c_{55}^5 - 2\sqrt{15}c_{51}^{-1}c_{51}^0 c_{55}^0 c_{55}^1$$
$$+6\sqrt{14}c_{51}^{-1}c_{51}^0 c_{55}^{-1}c_{55}^2 - 20\sqrt{3}c_{51}^{-1}c_{51}^0 c_{55}^{-2}c_{55}^3 + 42c_{51}^{-1}c_{51}^0 c_{55}^{-3}c_{55}^4 - 18\sqrt{5}c_{51}^{-1}c_{51}^0 c_{55}^{-4}c_{55}^5$$
$$+15(c_{51}^{-1})^2 (c_{55}^1)^2 - 2\sqrt{210}(c_{51}^{-1})^2 c_{55}^0 c_{55}^2 + 4\sqrt{42}(c_{51}^{-1})^2 c_{55}^{-1}c_{55}^3 - 12\sqrt{3}(c_{51}^{-1})^2 c_{55}^{-2}c_{55}^4$$
$$+6\sqrt{5}(c_{51}^{-1})^2 c_{55}^{-3}c_{55}^5)/(c_{00}^0)^{32/3}$$

$$\begin{aligned}
\Phi_{88} \;=\; c_5^2(5,3)_2 &= \frac{1}{462}\sqrt{\frac{1}{5}}\,(28(c_{53}^3)^2(c_{55}^{-3})^2 - 28\sqrt{3}(c_{53}^3)^2 c_{55}^{-4}c_{55}^{-2} + 2\sqrt{210}(c_{53}^3)^2 c_{55}^{-5}c_{55}^{-1} \\
&\quad -28 c_{53}^2 c_{53}^3 c_{55}^{-3}c_{55}^{-2} + 18\sqrt{14}\,c_{53}^2 c_{53}^3 c_{55}^{-4}c_{55}^{-1} - 10\sqrt{42}\,c_{53}^2 c_{53}^3 c_{55}^{-5}c_{55}^0 + 63(c_{53}^2)^2(c_{55}^{-2})^2 \\
&\quad -16\sqrt{42}(c_{53}^2)^2 c_{55}^{-3}c_{55}^{-1} + 6\sqrt{70}(c_{53}^2)^2 c_{55}^{-4}c_{55}^0 - 14\sqrt{15}\,c_{53}^1 c_{53}^3(c_{55}^{-2})^2 \\
&\quad +14\sqrt{70}\,c_{53}^1 c_{53}^3 c_{55}^{-3}c_{55}^{-1} - 20\sqrt{42}\,c_{53}^1 c_{53}^3 c_{55}^{-4}c_{55}^0 + 30\sqrt{14}\,c_{53}^1 c_{53}^3 c_{55}^{-5}c_{55}^1 \\
&\quad -6\sqrt{70}\,c_{53}^1 c_{53}^2 c_{55}^{-2}c_{55}^{-1} + 30\sqrt{14}\,c_{53}^1 c_{53}^2 c_{55}^{-3}c_{55}^0 - 6\sqrt{210}\,c_{53}^1 c_{53}^2 c_{55}^{-4}c_{55}^1 + 90(c_{53}^1)^2(c_{55}^{-1})^2 \\
&\quad -10\sqrt{210}(c_{53}^1)^2 c_{55}^{-2}c_{55}^0 + 10\sqrt{42}(c_{53}^1)^2 c_{55}^{-3}c_{55}^1 + 6\sqrt{35}\,c_{53}^0 c_{53}^3 c_{55}^{-2}c_{55}^{-1} \\
&\quad -40\sqrt{7}\,c_{53}^0 c_{53}^3 c_{55}^{-3}c_{55}^0 + 16\sqrt{105}\,c_{53}^0 c_{53}^3 c_{55}^{-4}c_{55}^1 - 70\sqrt{6}\,c_{53}^0 c_{53}^3 c_{55}^{-5}c_{55}^2 \\
&\quad -16\sqrt{30}\,c_{53}^0 c_{53}^2(c_{55}^{-1})^2 + 70\sqrt{7}\,c_{53}^0 c_{53}^2 c_{55}^{-2}c_{55}^0 - 32\sqrt{35}\,c_{53}^0 c_{53}^2 c_{55}^{-3}c_{55}^1 \\
&\quad +42\sqrt{10}\,c_{53}^0 c_{53}^2 c_{55}^{-4}c_{55}^2 - 20\sqrt{10}\,c_{53}^0 c_{53}^1 c_{55}^{-1}c_{55}^0 + 30\sqrt{21}\,c_{53}^0 c_{53}^1 c_{55}^{-2}c_{55}^1 \\
&\quad -70\sqrt{2}\,c_{53}^0 c_{53}^1 c_{55}^{-3}c_{55}^2 + 100(c_{53}^0)^2(c_{55}^0)^2 - 160(c_{53}^0)^2 c_{55}^{-1}c_{55}^1 + 70(c_{53}^0)^2 c_{55}^{-2}c_{55}^2 \\
&\quad +2\sqrt{15}\,c_{53}^{-1} c_{53}^3(c_{55}^{-1})^2 - 10\sqrt{14}\,c_{53}^{-1} c_{53}^3 c_{55}^{-2}c_{55}^0 + 12\sqrt{70}\,c_{53}^{-1} c_{53}^3 c_{55}^{-3}c_{55}^1 \\
&\quad -84\sqrt{5}\,c_{53}^{-1} c_{53}^3 c_{55}^{-4}c_{55}^2 + 140\sqrt{3}\,c_{53}^{-1} c_{53}^3 c_{55}^{-5}c_{55}^3 + 30\sqrt{3}\,c_{53}^{-1} c_{53}^2 c_{55}^{-1}c_{55}^0 \\
&\quad -18\sqrt{70}\,c_{53}^{-1} c_{53}^2 c_{55}^{-2}c_{55}^1 + 56\sqrt{15}\,c_{53}^{-1} c_{53}^2 c_{55}^{-3}c_{55}^2 - 84\sqrt{5}\,c_{53}^{-1} c_{53}^2 c_{55}^{-4}c_{55}^3 \\
&\quad -100 c_{53}^{-1} c_{53}^1(c_{55}^0)^2 + 210 c_{53}^{-1} c_{53}^1 c_{55}^{-1}c_{55}^1 - 210 c_{53}^{-1} c_{53}^1 c_{55}^{-2}c_{55}^2 + 140 c_{53}^{-1} c_{53}^1 c_{55}^{-3}c_{55}^3 \\
&\quad -20\sqrt{10}\,c_{53}^{-1} c_{53}^0 c_{55}^0 c_{55}^1 + 30\sqrt{21}\,c_{53}^{-1} c_{53}^0 c_{55}^{-1}c_{55}^2 - 70\sqrt{2}\,c_{53}^{-1} c_{53}^0 c_{55}^{-2}c_{55}^3 + 90(c_{53}^{-1})^2(c_{55}^1)^2 \\
&\quad -10\sqrt{210}(c_{53}^{-1})^2 c_{55}^0 c_{55}^2 + 10\sqrt{42}(c_{53}^{-1})^2 c_{55}^{-1}c_{55}^3 - 2\sqrt{5}\,c_{53}^{-2} c_{53}^3 c_{55}^{-1}c_{55}^0 \\
&\quad +4\sqrt{42}\,c_{53}^{-2} c_{53}^3 c_{55}^{-2}c_{55}^1 - 84 c_{53}^{-2} c_{53}^3 c_{55}^{-3}c_{55}^2 + 112\sqrt{3}\,c_{53}^{-2} c_{53}^3 c_{55}^{-4}c_{55}^3 \\
&\quad -84\sqrt{15}\,c_{53}^{-2} c_{53}^3 c_{55}^{-5}c_{55}^4 + 10 c_{53}^{-2} c_{53}^2(c_{55}^0)^2 - 48 c_{53}^{-2} c_{53}^2 c_{55}^{-1}c_{55}^1 + 126 c_{53}^{-2} c_{53}^2 c_{55}^{-2}c_{55}^2 \\
&\quad -224 c_{53}^{-2} c_{53}^2 c_{55}^{-3}c_{55}^3 + 252 c_{53}^{-2} c_{53}^2 c_{55}^{-4}c_{55}^4 + 30\sqrt{3}\,c_{53}^{-2} c_{53}^1 c_{55}^0 c_{55}^1 - 18\sqrt{70}\,c_{53}^{-2} c_{53}^1 c_{55}^{-1}c_{55}^2 \\
&\quad +56\sqrt{15}\,c_{53}^{-2} c_{53}^1 c_{55}^{-2}c_{55}^3 - 84\sqrt{5}\,c_{53}^{-2} c_{53}^1 c_{55}^{-3}c_{55}^4 - 16\sqrt{30}\,c_{53}^{-2} c_{53}^0(c_{55}^1)^2 \\
&\quad +70\sqrt{7}\,c_{53}^{-2} c_{53}^0 c_{55}^0 c_{55}^2 - 32\sqrt{35}\,c_{53}^{-2} c_{53}^0 c_{55}^{-1}c_{55}^3 + 42\sqrt{10}\,c_{53}^{-2} c_{53}^0 c_{55}^{-2}c_{55}^4 \\
&\quad -6\sqrt{70}\,c_{53}^{-2} c_{53}^{-1} c_{55}^1 c_{55}^2 + 30\sqrt{14}\,c_{53}^{-2} c_{53}^{-1} c_{55}^0 c_{55}^3 - 6\sqrt{210}\,c_{53}^{-2} c_{53}^{-1} c_{55}^{-1}c_{55}^4 + 63(c_{53}^{-2})^2(c_{55}^2)^2 \\
&\quad -16\sqrt{42}(c_{53}^{-2})^2 c_{55}^1 c_{55}^3 + 6\sqrt{70}(c_{53}^{-2})^2 c_{55}^0 c_{55}^4 + 2 c_{53}^{-3} c_{53}^3 c_{55}^{-1}c_{55}^1 - 14 c_{53}^{-3} c_{53}^3 c_{55}^{-2}c_{55}^2 \\
&\quad +56 c_{53}^{-3} c_{53}^3 c_{55}^{-3}c_{55}^3 - 168 c_{53}^{-3} c_{53}^3 c_{55}^{-4}c_{55}^4 + 420 c_{53}^{-3} c_{53}^3 c_{55}^{-5}c_{55}^5 - 2\sqrt{5}\,c_{53}^{-3} c_{53}^2 c_{55}^0 c_{55}^1 \\
&\quad +4\sqrt{42}\,c_{53}^{-3} c_{53}^2 c_{55}^{-1}c_{55}^2 - 84 c_{53}^{-3} c_{53}^2 c_{55}^{-2}c_{55}^3 + 112\sqrt{3}\,c_{53}^{-3} c_{53}^2 c_{55}^{-3}c_{55}^4 \\
&\quad -84\sqrt{15}\,c_{53}^{-3} c_{53}^2 c_{55}^{-4}c_{55}^5 + 2\sqrt{15}\,c_{53}^{-3} c_{53}^1(c_{55}^1)^2 - 10\sqrt{14}\,c_{53}^{-3} c_{53}^1 c_{55}^0 c_{55}^2 \\
&\quad +12\sqrt{70}\,c_{53}^{-3} c_{53}^1 c_{55}^{-1}c_{55}^3 - 84\sqrt{5}\,c_{53}^{-3} c_{53}^1 c_{55}^{-2}c_{55}^4 + 140\sqrt{3}\,c_{53}^{-3} c_{53}^1 c_{55}^{-3}c_{55}^5 \\
&\quad +6\sqrt{35}\,c_{53}^{-3} c_{53}^0 c_{55}^1 c_{55}^2 - 40\sqrt{7}\,c_{53}^{-3} c_{53}^0 c_{55}^0 c_{55}^3 + 16\sqrt{105}\,c_{53}^{-3} c_{53}^0 c_{55}^{-1}c_{55}^4 \\
&\quad -70\sqrt{6}\,c_{53}^{-3} c_{53}^0 c_{55}^{-2}c_{55}^5 - 14\sqrt{15}\,c_{53}^{-3} c_{53}^{-1}(c_{55}^2)^2 + 14\sqrt{70}\,c_{53}^{-3} c_{53}^{-1} c_{55}^1 c_{55}^3 \\
&\quad -20\sqrt{42}\,c_{53}^{-3} c_{53}^{-1} c_{55}^0 c_{55}^4 + 30\sqrt{14}\,c_{53}^{-3} c_{53}^{-1} c_{55}^{-1}c_{55}^5 - 28 c_{53}^{-3} c_{53}^{-2} c_{55}^2 c_{55}^3 \\
&\quad +18\sqrt{14}\,c_{53}^{-3} c_{53}^{-2} c_{55}^1 c_{55}^4 - 10\sqrt{42}\,c_{53}^{-3} c_{53}^{-2} c_{55}^0 c_{55}^5 + 28(c_{53}^{-3})^2(c_{55}^3)^2 - 28\sqrt{3}(c_{53}^{-3})^2 c_{55}^2 c_{55}^4 \\
&\quad +2\sqrt{210}(c_{53}^{-3})^2 c_{55}^1 c_{55}^5)/(c_{00}^0)^{32/3}
\end{aligned}$$

$$\Phi_{89} = c_5(5,3)_2 c_5(3,3)_2 = \frac{1}{21}\sqrt{\frac{2}{55}}(3\sqrt{35}(c_{53}^1)^2 c_{53}^3 c_{55}^{-5} - 3\sqrt{21}(c_{53}^1)^2 c_{53}^2 c_{55}^{-4} + \sqrt{105}(c_{53}^1)^3 c_{55}^{-3}$$
$$-5\sqrt{42}c_{53}^0 c_{53}^2 c_{53}^3 c_{55}^{-5} + 3\sqrt{70}c_{53}^0(c_{53}^2)^2 c_{55}^{-4} - \sqrt{42}c_{53}^0 c_{53}^1 c_{53}^3 c_{55}^{-4} - 3\sqrt{14}c_{53}^0 c_{53}^1 c_{53}^2 c_{55}^{-3}$$
$$-\sqrt{210}c_{53}^0(c_{53}^1)^2 c_{55}^{-2} + 2\sqrt{7}(c_{53}^0)^2 c_{53}^3 c_{55}^{-3} + 2\sqrt{7}(c_{53}^0)^2 c_{53}^2 c_{55}^{-2} + 5\sqrt{10}(c_{53}^0)^2 c_{53}^1 c_{55}^{-1}$$
$$-10(c_{53}^0)^3 c_{55}^0 + 5\sqrt{21}c_{53}^{-1}(c_{53}^3)^2 c_{55}^{-5} - 2\sqrt{105}c_{53}^{-1}(c_{53}^2)^2 c_{55}^{-3} + 2\sqrt{7}c_{53}^{-1}c_{53}^1 c_{53}^3 c_{55}^{-3}$$
$$+12\sqrt{7}c_{53}^{-1}c_{53}^1 c_{53}^2 c_{55}^{-2} - 3\sqrt{10}c_{53}^{-1}(c_{53}^1)^2 c_{55}^{-1} - 3\sqrt{14}c_{53}^{-1}c_{53}^0 c_{53}^3 c_{55}^{-2} - 13\sqrt{3}c_{53}^{-1}c_{53}^0 c_{53}^2 c_{55}^{-1}$$
$$+5c_{53}^{-1}c_{53}^0 c_{53}^1 c_{55}^0 + 5\sqrt{10}c_{53}^{-1}(c_{53}^0)^2 c_{55}^1 + 3\sqrt{6}(c_{53}^{-1})^2 c_{53}^3 c_{55}^{-1} + 2\sqrt{30}(c_{53}^{-1})^2 c_{53}^2 c_{55}^0$$
$$-3\sqrt{10}(c_{53}^{-1})^2 c_{53}^1 c_{55}^1 - \sqrt{210}(c_{53}^{-1})^2 c_{53}^0 c_{55}^2 + \sqrt{105}(c_{53}^{-1})^3 c_{55}^3 - 5\sqrt{21}c_{53}^{-2}(c_{53}^3)^2 c_{55}^{-4}$$
$$+10\sqrt{7}c_{53}^{-2}c_{53}^2 c_{53}^3 c_{55}^{-3} - 2\sqrt{105}c_{53}^{-2}c_{53}^1 c_{53}^3 c_{55}^{-2} - 3\sqrt{10}c_{53}^{-2}c_{53}^1 c_{53}^2 c_{55}^{-1}$$
$$+2\sqrt{30}c_{53}^{-2}(c_{53}^1)^2 c_{55}^0 + 9\sqrt{5}c_{53}^{-2}c_{53}^0 c_{53}^3 c_{55}^{-1} + 10c_{53}^{-2}c_{53}^0 c_{53}^2 c_{55}^0 - 13\sqrt{3}c_{53}^{-2}c_{53}^0 c_{53}^1 c_{55}^1$$
$$+2\sqrt{7}c_{53}^{-2}(c_{53}^0)^2 c_{55}^2 - 15\sqrt{2}c_{53}^{-2}c_{53}^{-1}c_{53}^3 c_{55}^0 - 3\sqrt{10}c_{53}^{-2}c_{53}^{-1}c_{53}^2 c_{55}^1 + 12\sqrt{7}c_{53}^{-2}c_{53}^{-1}c_{53}^1 c_{55}^2$$
$$-3\sqrt{14}c_{53}^{-2}c_{53}^{-1}c_{53}^0 c_{55}^3 - 3\sqrt{21}c_{53}^{-2}(c_{53}^{-1})^2 c_{55}^4 + 5\sqrt{6}(c_{53}^{-2})^2 c_{53}^3 c_{55}^1 - 2\sqrt{105}(c_{53}^{-2})^2 c_{53}^1 c_{55}^3$$
$$+3\sqrt{70}(c_{53}^{-2})^2 c_{53}^0 c_{55}^4 + 5\sqrt{7}c_{53}^{-3}(c_{53}^3)^2 c_{55}^{-3} - 10\sqrt{7}c_{53}^{-3}c_{53}^2 c_{53}^3 c_{55}^{-2} + 5\sqrt{6}c_{53}^{-3}(c_{53}^2)^2 c_{55}^{-1}$$
$$+8\sqrt{10}c_{53}^{-3}c_{53}^1 c_{53}^3 c_{55}^{-1} - 15\sqrt{2}c_{53}^{-3}c_{53}^1 c_{53}^2 c_{55}^0 + 3\sqrt{6}c_{53}^{-3}(c_{53}^1)^2 c_{55}^1 - 25c_{53}^{-3}c_{53}^0 c_{53}^3 c_{55}^0$$
$$+9\sqrt{5}c_{53}^{-3}c_{53}^0 c_{53}^2 c_{55}^1 - 3\sqrt{14}c_{53}^{-3}c_{53}^0 c_{53}^1 c_{55}^2 + 2\sqrt{7}c_{53}^{-3}(c_{53}^0)^2 c_{55}^3 + 8\sqrt{10}c_{53}^{-3}c_{53}^{-1}c_{53}^3 c_{55}^1$$
$$-2\sqrt{105}c_{53}^{-3}c_{53}^{-1}c_{53}^2 c_{55}^2 + 2\sqrt{7}c_{53}^{-3}c_{53}^{-1}c_{53}^1 c_{55}^3 - \sqrt{42}c_{53}^{-3}c_{53}^{-1}c_{53}^0 c_{55}^4 + 3\sqrt{35}c_{53}^{-3}(c_{53}^{-1})^2 c_{55}^5$$
$$-10\sqrt{7}c_{53}^{-3}c_{53}^{-2}c_{53}^3 c_{55}^2 + 10\sqrt{7}c_{53}^{-3}c_{53}^{-2}c_{53}^2 c_{55}^3 - 5\sqrt{42}c_{53}^{-3}c_{53}^{-2}c_{53}^0 c_{55}^5 + 5\sqrt{7}(c_{53}^{-3})^2 c_{53}^3 c_{55}^3$$
$$-5\sqrt{21}(c_{53}^{-3})^2 c_{53}^2 c_{55}^4 + 5\sqrt{21}(c_{53}^{-3})^2 c_{53}^1 c_{55}^5)/(c_{00}^0)^{32/3}$$

$$\Phi_{90} = c_5(5,3)_2 c_5(3,1)_2 = \frac{1}{21}\sqrt{\frac{1}{110}}(\sqrt{210}c_{51}^1 c_{53}^1 c_{53}^3 c_{55}^{-5} - 3\sqrt{14}c_{51}^1 c_{53}^1 c_{53}^2 c_{55}^{-4}$$
$$+\sqrt{70}c_{51}^1(c_{53}^1)^2 c_{55}^{-3} - 6\sqrt{7}c_{51}^1 c_{53}^0 c_{53}^3 c_{55}^{-4} + 4\sqrt{21}c_{51}^1 c_{53}^0 c_{53}^2 c_{55}^{-3} - 4\sqrt{35}c_{51}^1 c_{53}^0 c_{53}^1 c_{55}^{-2}$$
$$+4\sqrt{15}c_{51}^1(c_{53}^0)^2 c_{55}^{-1} + 2\sqrt{42}c_{51}^1 c_{53}^{-1}c_{53}^3 c_{55}^{-3} - 3\sqrt{42}c_{51}^1 c_{53}^{-1}c_{53}^2 c_{55}^{-2} + 7\sqrt{15}c_{51}^1 c_{53}^{-1}c_{53}^1 c_{55}^{-1}$$
$$-15\sqrt{6}c_{51}^1 c_{53}^{-1}c_{53}^0 c_{55}^0 + 6\sqrt{15}c_{51}^1(c_{53}^{-1})^2 c_{55}^1 - \sqrt{70}c_{51}^1 c_{53}^{-2}c_{53}^3 c_{55}^{-2} + 4\sqrt{15}c_{51}^1 c_{53}^{-2}c_{53}^2 c_{55}^{-1}$$
$$-11\sqrt{5}c_{51}^1 c_{53}^{-2}c_{53}^1 c_{55}^0 + 26\sqrt{2}c_{51}^1 c_{53}^{-2}c_{53}^0 c_{55}^1 - 8\sqrt{42}c_{51}^1 c_{53}^{-2}c_{53}^{-1}c_{55}^2 + 4\sqrt{70}c_{51}^1(c_{53}^{-2})^2 c_{55}^3$$
$$+\sqrt{15}c_{51}^1 c_{53}^{-3}c_{53}^3 c_{55}^{-1} - 5\sqrt{3}c_{51}^1 c_{53}^{-3}c_{53}^2 c_{55}^0 + 16c_{51}^1 c_{53}^{-3}c_{53}^1 c_{55}^1 - 6\sqrt{21}c_{51}^1 c_{53}^{-3}c_{53}^0 c_{55}^2$$
$$+7\sqrt{42}c_{51}^1 c_{53}^{-3}c_{53}^{-1}c_{55}^3 - 5\sqrt{210}c_{51}^1 c_{53}^{-3}c_{53}^{-2}c_{55}^4 + 15\sqrt{14}c_{51}^1(c_{53}^{-3})^2 c_{55}^5$$
$$-5\sqrt{42}c_{51}^0 c_{53}^2 c_{53}^3 c_{55}^{-5} + 3\sqrt{70}c_{51}^0(c_{53}^2)^2 c_{55}^{-4} + 4\sqrt{42}c_{51}^0 c_{53}^1 c_{53}^3 c_{55}^{-4}$$
$$-13\sqrt{14}c_{51}^0 c_{53}^1 c_{53}^2 c_{55}^{-3} + 2\sqrt{210}c_{51}^0(c_{53}^1)^2 c_{55}^{-2} - 6\sqrt{7}c_{51}^0 c_{53}^0 c_{53}^3 c_{55}^{-3}$$
$$+14\sqrt{7}c_{51}^0 c_{53}^0 c_{53}^2 c_{55}^{-2} - 17\sqrt{10}c_{51}^0 c_{53}^0 c_{53}^1 c_{55}^{-1} + 30c_{51}^0(c_{53}^0)^2 c_{55}^0 + 2\sqrt{14}c_{51}^0 c_{53}^{-1}c_{53}^3 c_{55}^{-2}$$
$$-13\sqrt{3}c_{51}^0 c_{53}^{-1}c_{53}^2 c_{55}^{-1} + 40c_{51}^0 c_{53}^{-1}c_{53}^1 c_{55}^0 - 17\sqrt{10}c_{51}^0 c_{53}^{-1}c_{53}^0 c_{55}^1 + 2\sqrt{210}c_{51}^0(c_{53}^{-1})^2 c_{55}^2$$
$$-\sqrt{5}c_{51}^0 c_{53}^{-2}c_{53}^3 c_{55}^{-1} + 10c_{51}^0 c_{53}^{-2}c_{53}^2 c_{55}^0 - 13\sqrt{3}c_{51}^0 c_{53}^{-2}c_{53}^1 c_{55}^1 + 14\sqrt{7}c_{51}^0 c_{53}^{-2}c_{53}^0 c_{55}^2$$
$$-13\sqrt{14}c_{51}^0 c_{53}^{-2}c_{53}^{-1}c_{55}^3 + 3\sqrt{70}c_{51}^0(c_{53}^{-2})^2 c_{55}^4 - \sqrt{5}c_{51}^0 c_{53}^{-3}c_{53}^2 c_{55}^1 + 2\sqrt{14}c_{51}^0 c_{53}^{-3}c_{53}^3 c_{55}^2$$
$$-6\sqrt{7}c_{51}^0 c_{53}^{-3}c_{53}^0 c_{55}^3 + 4\sqrt{42}c_{51}^0 c_{53}^{-3}c_{53}^{-1}c_{55}^4 - 5\sqrt{42}c_{51}^0 c_{53}^{-3}c_{53}^{-2}c_{55}^5 + 15\sqrt{14}c_{51}^{-1}(c_{53}^3)^2 c_{55}^{-5}$$
$$-5\sqrt{210}c_{51}^{-1}c_{53}^2 c_{53}^3 c_{55}^{-4} + 4\sqrt{70}c_{51}^{-1}(c_{53}^2)^2 c_{55}^{-3} + 7\sqrt{42}c_{51}^{-1}c_{53}^1 c_{53}^3 c_{55}^{-3}$$
$$-8\sqrt{42}c_{51}^{-1}c_{53}^1 c_{53}^2 c_{55}^{-2} + 6\sqrt{15}c_{51}^{-1}(c_{53}^1)^2 c_{55}^{-1} - 6\sqrt{21}c_{51}^{-1}c_{53}^0 c_{53}^3 c_{55}^{-2} + 26\sqrt{2}c_{51}^{-1}c_{53}^0 c_{53}^2 c_{55}^{-1}$$
$$-15\sqrt{6}c_{51}^{-1}c_{53}^0 c_{53}^1 c_{55}^0 + 4\sqrt{15}c_{51}^{-1}(c_{53}^0)^2 c_{55}^1 + 16c_{51}^{-1}c_{53}^{-1}c_{53}^3 c_{55}^{-1} - 11\sqrt{5}c_{51}^{-1}c_{53}^{-1}c_{53}^2 c_{55}^0$$
$$+7\sqrt{15}c_{51}^{-1}c_{53}^{-1}c_{53}^1 c_{55}^1 - 4\sqrt{35}c_{51}^{-1}c_{53}^{-1}c_{53}^0 c_{55}^2 + \sqrt{70}c_{51}^{-1}(c_{53}^{-1})^2 c_{55}^3 - 5\sqrt{3}c_{51}^{-1}c_{53}^{-2}c_{53}^3 c_{55}^0$$
$$+4\sqrt{15}c_{51}^{-1}c_{53}^{-2}c_{53}^2 c_{55}^1 - 3\sqrt{42}c_{51}^{-1}c_{53}^{-2}c_{53}^1 c_{55}^2 + 4\sqrt{21}c_{51}^{-1}c_{53}^{-2}c_{53}^0 c_{55}^3$$
$$-3\sqrt{14}c_{51}^{-1}c_{53}^{-2}c_{53}^{-1}c_{55}^4 + \sqrt{15}c_{51}^{-1}c_{53}^{-3}c_{53}^3 c_{55}^1 - \sqrt{70}c_{51}^{-1}c_{53}^{-3}c_{53}^2 c_{55}^2 + 2\sqrt{42}c_{51}^{-1}c_{53}^{-3}c_{53}^1 c_{55}^3$$
$$-6\sqrt{7}c_{51}^{-1}c_{53}^{-3}c_{53}^0 c_{55}^4 + \sqrt{210}c_{51}^{-1}c_{53}^{-3}c_{53}^{-1}c_{55}^5)/(c_{00}^0)^{32/3}$$

$$\Phi_{91} = c_5(5,3)_2 c_5(1,1)_2 = \frac{1}{3}\sqrt{\frac{1}{770}}(3\sqrt{70}(c_{51}^1)^2 c_{53}^3 c_{55}^{-5} - 3\sqrt{42}(c_{51}^1)^2 c_{53}^2 c_{55}^{-4}$$
$$+\sqrt{210}(c_{51}^1)^2 c_{53}^1 c_{55}^{-3} - \sqrt{105}(c_{51}^1)^2 c_{53}^0 c_{55}^{-2} + 3\sqrt{5}(c_{51}^1)^2 c_{53}^{-1} c_{55}^{-1} - \sqrt{15}(c_{51}^1)^2 c_{53}^{-2} c_{55}^0$$
$$+\sqrt{3}(c_{51}^1)^2 c_{53}^{-3} c_{55}^1 - 6\sqrt{14} c_{51}^0 c_{51}^1 c_{53}^3 c_{55}^{-4} + 4\sqrt{42} c_{51}^0 c_{51}^1 c_{53}^2 c_{55}^{-3} - 3\sqrt{70} c_{51}^0 c_{51}^1 c_{53}^1 c_{55}^{-2}$$
$$+4\sqrt{30} c_{51}^0 c_{51}^1 c_{53}^0 c_{55}^{-1} - 10\sqrt{3} c_{51}^0 c_{51}^1 c_{53}^{-1} c_{55}^0 + 12 c_{51}^0 c_{51}^1 c_{53}^{-2} c_{55}^1 - \sqrt{42} c_{51}^0 c_{51}^1 c_{53}^{-3} c_{55}^2$$
$$+2\sqrt{14}(c_{51}^0)^2 c_{53}^3 c_{55}^{-3} - 3\sqrt{14}(c_{51}^0)^2 c_{53}^2 c_{55}^{-2} + 6\sqrt{5}(c_{51}^0)^2 c_{53}^1 c_{55}^{-1} - 10\sqrt{2}(c_{51}^0)^2 c_{53}^0 c_{55}^0$$
$$+6\sqrt{5}(c_{51}^0)^2 c_{53}^{-1} c_{55}^1 - 3\sqrt{14}(c_{51}^0)^2 c_{53}^{-2} c_{55}^2 + 2\sqrt{14}(c_{51}^0)^2 c_{53}^{-3} c_{55}^3 + 2\sqrt{14} c_{51}^{-1} c_{51}^1 c_{53}^3 c_{55}^{-3}$$
$$-3\sqrt{14} c_{51}^{-1} c_{51}^1 c_{53}^2 c_{55}^{-2} + 6\sqrt{5} c_{51}^{-1} c_{51}^1 c_{53}^1 c_{55}^{-1} - 10\sqrt{2} c_{51}^{-1} c_{51}^1 c_{53}^0 c_{55}^0 + 6\sqrt{5} c_{51}^{-1} c_{51}^1 c_{53}^{-1} c_{55}^1$$
$$-3\sqrt{14} c_{51}^{-1} c_{51}^1 c_{53}^{-2} c_{55}^2 + 2\sqrt{14} c_{51}^{-1} c_{51}^1 c_{53}^{-3} c_{55}^3 - \sqrt{42} c_{51}^{-1} c_{51}^0 c_{53}^3 c_{55}^{-2} + 12 c_{51}^{-1} c_{51}^0 c_{53}^2 c_{55}^{-1}$$
$$-10\sqrt{3} c_{51}^{-1} c_{51}^0 c_{53}^1 c_{55}^0 + 4\sqrt{30} c_{51}^{-1} c_{51}^0 c_{53}^0 c_{55}^1 - 3\sqrt{70} c_{51}^{-1} c_{51}^0 c_{53}^{-1} c_{55}^2$$
$$+4\sqrt{42} c_{51}^{-1} c_{51}^0 c_{53}^{-2} c_{55}^3 - 6\sqrt{14} c_{51}^{-1} c_{51}^0 c_{53}^{-3} c_{55}^4 + \sqrt{3}(c_{51}^{-1})^2 c_{53}^3 c_{55}^{-1} - \sqrt{15}(c_{51}^{-1})^2 c_{53}^2 c_{55}^0$$
$$+3\sqrt{5}(c_{51}^{-1})^2 c_{53}^1 c_{55}^1 - \sqrt{105}(c_{51}^{-1})^2 c_{53}^0 c_{55}^2 + \sqrt{210}(c_{51}^{-1})^2 c_{53}^{-1} c_{55}^3 - 3\sqrt{42}(c_{51}^{-1})^2 c_{53}^{-2} c_{55}^4$$
$$+3\sqrt{70}(c_{51}^{-1})^2 c_{53}^{-3} c_{55}^5)/(c_{00}^0)^{32/3}$$

$$\Phi_{92} = c_5^2(3,3)_2 = \frac{1}{21}\sqrt{\frac{1}{5}}(4(c_{53}^0)^4 - 16 c_{53}^{-1}(c_{53}^0)^2 c_{53}^1 + 21(c_{53}^{-1})^2(c_{53}^1)^2 - 2\sqrt{30}(c_{53}^{-1})^2 c_{53}^0 c_{53}^2$$
$$+4\sqrt{15}(c_{53}^{-1})^3 c_{53}^3 - 2\sqrt{30} c_{53}^{-2} c_{53}^0 (c_{53}^1)^2 + 40 c_{53}^{-2}(c_{53}^0)^2 c_{53}^2 - 30 c_{53}^{-2} c_{53}^{-1} c_{53}^1 c_{53}^2$$
$$-30\sqrt{2} c_{53}^{-2} c_{53}^{-1} c_{53}^0 c_{53}^3 + 10\sqrt{15}(c_{53}^{-2})^2 c_{53}^1 c_{53}^3 + 4\sqrt{15} c_{53}^{-3}(c_{53}^1)^3 - 30\sqrt{2} c_{53}^{-3} c_{53}^0 c_{53}^1 c_{53}^2$$
$$+20 c_{53}^{-3}(c_{53}^0)^2 c_{53}^3 + 10\sqrt{15} c_{53}^{-3} c_{53}^{-1}(c_{53}^2)^2 - 10 c_{53}^{-3} c_{53}^{-1} c_{53}^1 c_{53}^3 - 50 c_{53}^{-3} c_{53}^{-2} c_{53}^2 c_{53}^3$$
$$+25(c_{53}^{-3})^2(c_{53}^3)^2)/(c_{00}^0)^{32/3}$$

$$\Phi_{93} = c_5(3,3)_2 c_5(3,1)_2 = \frac{1}{21}\sqrt{\frac{1}{5}}(\sqrt{6} c_{51}^1 c_{53}^{-1}(c_{53}^0)^2 - 2\sqrt{6} c_{51}^1(c_{53}^{-1})^2 c_{53}^1 - \sqrt{5} c_{51}^1 c_{53}^{-2} c_{53}^0 c_{53}^1$$
$$+5\sqrt{6} c_{51}^1 c_{53}^{-2} c_{53}^{-1} c_{53}^2 - 5\sqrt{10} c_{51}^1(c_{53}^{-2})^2 c_{53}^3 + 4\sqrt{10} c_{51}^1 c_{53}^{-3}(c_{53}^1)^2 - 15\sqrt{3} c_{51}^1 c_{53}^{-3} c_{53}^0 c_{53}^2$$
$$+10\sqrt{6} c_{51}^1 c_{53}^{-3} c_{53}^{-1} c_{53}^3 - 6 c_{51}^0(c_{53}^0)^3 + 17 c_{51}^0 c_{53}^{-1} c_{53}^0 c_{53}^1 - 3\sqrt{30} c_{51}^0(c_{53}^{-1})^2 c_{53}^2$$
$$-3\sqrt{30} c_{51}^0 c_{53}^{-2}(c_{53}^1)^2 + 20 c_{51}^0 c_{53}^{-2} c_{53}^0 c_{53}^2 + 5\sqrt{2} c_{51}^0 c_{53}^{-2} c_{53}^{-1} c_{53}^3 + 5\sqrt{2} c_{51}^0 c_{53}^{-3} c_{53}^1 c_{53}^2$$
$$-15 c_{51}^0 c_{53}^{-3} c_{53}^0 c_{53}^3 + \sqrt{6} c_{51}^{-1}(c_{53}^0)^2 c_{53}^1 - 2\sqrt{6} c_{51}^{-1} c_{53}^{-1}(c_{53}^1)^2 - \sqrt{5} c_{51}^{-1} c_{53}^{-1} c_{53}^0 c_{53}^2$$
$$+4\sqrt{10} c_{51}^{-1}(c_{53}^{-1})^2 c_{53}^3 + 5\sqrt{6} c_{51}^{-1} c_{53}^{-2} c_{53}^1 c_{53}^2 - 15\sqrt{3} c_{51}^{-1} c_{53}^{-2} c_{53}^0 c_{53}^3 - 5\sqrt{10} c_{51}^{-1} c_{53}^{-3}(c_{53}^2)^2$$
$$+10\sqrt{6} c_{51}^{-1} c_{53}^{-3} c_{53}^1 c_{53}^3)/(c_{00}^0)^{32/3}$$

$$\Phi_{94} = c_5(3,3)_2 c_5(1,1)_2 = \frac{1}{3}\sqrt{\frac{2}{35}}(3(c_{51}^1)^2(c_{53}^{-1})^2 - \sqrt{30}(c_{51}^1)^2 c_{53}^{-2} c_{53}^0 + \sqrt{15}(c_{51}^1)^2 c_{53}^{-3} c_{53}^1$$
$$-\sqrt{6} c_{51}^0 c_{51}^1 c_{53}^{-1} c_{53}^0 + 3\sqrt{5} c_{51}^0 c_{51}^1 c_{53}^{-2} c_{53}^1 - 5\sqrt{3} c_{51}^0 c_{51}^1 c_{53}^{-3} c_{53}^2 + 2(c_{51}^0)^2(c_{53}^0)^2$$
$$-3(c_{51}^0)^2 c_{53}^{-1} c_{53}^1 + 5(c_{51}^0)^2 c_{53}^{-3} c_{53}^3 + 2 c_{51}^{-1} c_{51}^1(c_{53}^0)^2 - 3 c_{51}^{-1} c_{51}^1 c_{53}^{-1} c_{53}^1$$
$$+5 c_{51}^{-1} c_{51}^1 c_{53}^{-3} c_{53}^3 - \sqrt{6} c_{51}^{-1} c_{51}^0 c_{53}^0 c_{53}^1 + 3\sqrt{5} c_{51}^{-1} c_{51}^0 c_{53}^{-1} c_{53}^2 - 5\sqrt{3} c_{51}^{-1} c_{51}^0 c_{53}^{-2} c_{53}^3$$
$$+3(c_{51}^{-1})^2(c_{53}^1)^2 - \sqrt{30}(c_{51}^{-1})^2 c_{53}^0 c_{53}^2 + \sqrt{15}(c_{51}^{-1})^2 c_{53}^{-1} c_{53}^3)/(c_{00}^0)^{32/3}$$

$$\Phi_{95} = c_5(3,1)_2 c_5(1,1)_2 = \sqrt{\frac{1}{35}}(\sqrt{5}(c_{51}^1)^3 c_{53}^{-3} - \sqrt{15} c_{51}^0(c_{51}^1)^2 c_{53}^{-2} + 2\sqrt{3}(c_{51}^0)^2 c_{51}^1 c_{53}^{-1}$$
$$-\sqrt{2}(c_{51}^0)^3 c_{53}^0 + \sqrt{3} c_{51}^{-1}(c_{51}^1)^2 c_{53}^{-1} - 3\sqrt{2} c_{51}^{-1} c_{51}^0 c_{51}^1 c_{53}^0 + 2\sqrt{3} c_{51}^{-1}(c_{51}^0)^2 c_{53}^1$$
$$+\sqrt{3}(c_{51}^{-1})^2 c_{51}^1 c_{53}^1 - \sqrt{15}(c_{51}^{-1})^2 c_{51}^0 c_{53}^2 + \sqrt{5}(c_{51}^{-1})^3 c_{53}^3)/(c_{00}^0)^{32/3}$$

$$
\begin{aligned}
\Phi_{96} &= c_5(5,5)_4 c_5(5,3)_4 = \frac{1}{143}\sqrt{\frac{1}{35}} \left(-25\sqrt{3}c_{53}^3(c_{55}^{-1})^3 + 15\sqrt{70}c_{53}^3 c_{55}^{-2} c_{55}^{-1} c_{55}^0 \right. \\
&\quad -70\sqrt{3}c_{53}^3(c_{55}^{-2})^2 c_{55}^1 - 30\sqrt{14}c_{53}^3 c_{55}^{-3}(c_{55}^0)^2 + 30\sqrt{14}c_{53}^3 c_{55}^{-3} c_{55}^{-1} c_{55}^1 \\
&\quad +30\sqrt{14}c_{53}^3 c_{55}^{-3} c_{55}^{-2} c_{55}^2 - 30\sqrt{14}c_{53}^3(c_{55}^{-3})^2 c_{55}^3 + 6\sqrt{210}c_{53}^3 c_{55}^{-4} c_{55}^0 c_{55}^1 \\
&\quad -180 c_{53}^3 c_{55}^{-4} c_{55}^{-1} c_{55}^2 + 15\sqrt{42}c_{53}^3 c_{55}^{-4} c_{55}^{-2} c_{55}^3 + 30\sqrt{14}c_{53}^3 c_{55}^{-4} c_{55}^{-3} c_{55}^4 \\
&\quad -18\sqrt{70}c_{53}^3(c_{55}^{-4})^2 c_{55}^5 - 3\sqrt{70}c_{53}^3 c_{55}^{-5}(c_{55}^1)^2 + 30\sqrt{15}c_{53}^3 c_{55}^{-5} c_{55}^{-1} c_{55}^3 \\
&\quad -15\sqrt{210}c_{53}^3 c_{55}^{-5} c_{55}^{-2} c_{55}^4 + 60\sqrt{14}c_{53}^3 c_{55}^{-5} c_{55}^{-3} c_{55}^5 + 5\sqrt{15}c_{53}^2(c_{55}^{-1})^2 c_{55}^0 \\
&\quad -15\sqrt{14}c_{53}^2 c_{55}^{-2}(c_{55}^0)^2 + 5\sqrt{14}c_{53}^2 c_{55}^{-2} c_{55}^{-1} c_{55}^1 + 10\sqrt{14}c_{53}^2(c_{55}^{-2})^2 c_{55}^2 \\
&\quad +12\sqrt{70}c_{53}^2 c_{55}^{-3} c_{55}^0 c_{55}^1 - 100\sqrt{3}c_{53}^2 c_{55}^{-3} c_{55}^{-1} c_{55}^2 + 15\sqrt{14}c_{53}^2 c_{55}^{-3} c_{55}^{-2} c_{55}^3 \\
&\quad -25\sqrt{42}c_{53}^2 c_{55}^{-4}(c_{55}^1)^2 + 96\sqrt{5}c_{53}^2 c_{55}^{-4} c_{55}^0 c_{55}^2 - 30\sqrt{14}c_{53}^2 c_{55}^{-4} c_{55}^{-2} c_{55}^4 \\
&\quad +6\sqrt{210}c_{53}^2 c_{55}^{-4} c_{55}^{-3} c_{55}^5 + 28\sqrt{15}c_{53}^2 c_{55}^{-5} c_{55}^1 c_{55}^2 - 150\sqrt{3}c_{53}^2 c_{55}^{-5} c_{55}^0 c_{55}^3 \\
&\quad +120\sqrt{5}c_{53}^2 c_{55}^{-5} c_{55}^{-1} c_{55}^4 - 45\sqrt{14}c_{53}^2 c_{55}^{-5} c_{55}^{-2} c_{55}^5 + 12\sqrt{5}c_{53}^1 c_{55}^{-1}(c_{55}^0)^2 \\
&\quad -29\sqrt{5}c_{53}^1(c_{55}^{-1})^2 c_{55}^1 + \sqrt{42}c_{53}^1 c_{55}^{-2} c_{55}^0 c_{55}^1 + 50\sqrt{5}c_{53}^1 c_{55}^{-2} c_{55}^{-1} c_{55}^2 - 10\sqrt{210}c_{53}^1(c_{55}^{-2})^2 c_{55}^3 \\
&\quad +3\sqrt{210}c_{53}^1 c_{55}^{-3}(c_{55}^1)^2 - 156 c_{53}^1 c_{55}^{-3} c_{55}^0 c_{55}^2 + 78\sqrt{5}c_{53}^1 c_{55}^{-3} c_{55}^{-1} c_{55}^3 + 9\sqrt{70}c_{53}^1 c_{55}^{-3} c_{55}^{-2} c_{55}^4 \\
&\quad -18\sqrt{42}c_{53}^1(c_{55}^{-3})^2 c_{55}^5 + 16\sqrt{15}c_{53}^1 c_{55}^{-4} c_{55}^1 c_{55}^2 - 42\sqrt{3}c_{53}^1 c_{55}^{-4} c_{55}^0 c_{55}^3 \\
&\quad -36\sqrt{5}c_{53}^1 c_{55}^{-4} c_{55}^{-1} c_{55}^4 + 39\sqrt{14}c_{53}^1 c_{55}^{-4} c_{55}^{-2} c_{55}^5 - 28\sqrt{42}c_{53}^1 c_{55}^{-5}(c_{55}^2)^2 \\
&\quad +282 c_{53}^1 c_{55}^{-5} c_{55}^1 c_{55}^3 - 30\sqrt{15}c_{53}^1 c_{55}^{-5} c_{55}^0 c_{55}^4 + 6\sqrt{5}c_{53}^1 c_{55}^{-5} c_{55}^{-1} c_{55}^5 - 30\sqrt{2}c_{53}^0(c_{55}^0)^3 \\
&\quad +78\sqrt{2}c_{53}^0 c_{55}^{-1} c_{55}^0 c_{55}^1 - 7\sqrt{105}c_{53}^0(c_{55}^{-1})^2 c_{55}^2 - 7\sqrt{105}c_{53}^0 c_{55}^{-2}(c_{55}^1)^2 \\
&\quad +24\sqrt{2}c_{53}^0 c_{55}^{-2} c_{55}^0 c_{55}^2 + 12\sqrt{10}c_{53}^0 c_{55}^{-2} c_{55}^{-1} c_{55}^3 + 12\sqrt{35}c_{53}^0(c_{55}^{-2})^2 c_{55}^4 \\
&\quad +12\sqrt{10}c_{53}^0 c_{55}^{-3} c_{55}^1 c_{55}^2 + 24\sqrt{2}c_{53}^0 c_{55}^{-3} c_{55}^0 c_{55}^3 - 42\sqrt{30}c_{53}^0 c_{55}^{-3} c_{55}^{-1} c_{55}^4 \\
&\quad +18\sqrt{21}c_{53}^0 c_{55}^{-3} c_{55}^{-2} c_{55}^5 + 12\sqrt{35}c_{53}^0 c_{55}^{-4}(c_{55}^2)^2 - 42\sqrt{30}c_{53}^0 c_{55}^{-4} c_{55}^1 c_{55}^3 \\
&\quad +228\sqrt{2}c_{53}^0 c_{55}^{-4} c_{55}^0 c_{55}^4 - 66\sqrt{6}c_{53}^0 c_{55}^{-4} c_{55}^{-1} c_{55}^5 + 18\sqrt{21}c_{53}^0 c_{55}^{-5} c_{55}^2 c_{55}^3 \\
&\quad -66\sqrt{6}c_{53}^0 c_{55}^{-5} c_{55}^1 c_{55}^4 + 60\sqrt{2}c_{53}^0 c_{55}^{-5} c_{55}^0 c_{55}^5 + 12\sqrt{5}c_{53}^{-1}(c_{55}^0)^2 c_{55}^1 - 29\sqrt{5}c_{53}^{-1} c_{55}^{-1}(c_{55}^1)^2 \\
&\quad +\sqrt{42}c_{53}^{-1} c_{55}^{-1} c_{55}^0 c_{55}^2 + 3\sqrt{210}c_{53}^{-1}(c_{55}^{-1})^2 c_{55}^3 + 50\sqrt{5}c_{53}^{-1} c_{55}^{-2} c_{55}^1 c_{55}^2 - 156 c_{53}^{-1} c_{55}^{-2} c_{55}^0 c_{55}^3 \\
&\quad +16\sqrt{15}c_{53}^{-1} c_{55}^{-2} c_{55}^{-1} c_{55}^4 - 28\sqrt{42}c_{53}^{-1}(c_{55}^{-2})^2 c_{55}^5 - 10\sqrt{210}c_{53}^{-1} c_{55}^{-3}(c_{55}^2)^2 \\
&\quad +78\sqrt{5}c_{53}^{-1} c_{55}^{-3} c_{55}^1 c_{55}^3 - 42\sqrt{3}c_{53}^{-1} c_{55}^{-3} c_{55}^0 c_{55}^4 + 282 c_{53}^{-1} c_{55}^{-3} c_{55}^{-1} c_{55}^5 + 9\sqrt{70}c_{53}^{-1} c_{55}^{-4} c_{55}^2 c_{55}^3 \\
&\quad -36\sqrt{5}c_{53}^{-1} c_{55}^{-4} c_{55}^1 c_{55}^4 - 30\sqrt{15}c_{53}^{-1} c_{55}^{-4} c_{55}^0 c_{55}^5 - 18\sqrt{42}c_{53}^{-1} c_{55}^{-5}(c_{55}^3)^2 \\
&\quad +39\sqrt{14}c_{53}^{-1} c_{55}^{-5} c_{55}^2 c_{55}^4 + 6\sqrt{5}c_{53}^{-1} c_{55}^{-5} c_{55}^1 c_{55}^5 + 5\sqrt{15}c_{53}^{-2} c_{55}^0(c_{55}^1)^2 - 15\sqrt{14}c_{53}^{-2}(c_{55}^0)^2 c_{55}^2 \\
&\quad +5\sqrt{14}c_{53}^{-2} c_{55}^{-1} c_{55}^1 c_{55}^2 + 12\sqrt{70}c_{53}^{-2} c_{55}^{-1} c_{55}^0 c_{55}^3 - 25\sqrt{42}c_{53}^{-2}(c_{55}^{-1})^2 c_{55}^4 \\
&\quad +10\sqrt{14}c_{53}^{-2} c_{55}^{-2}(c_{55}^2)^2 - 100\sqrt{3}c_{53}^{-2} c_{55}^{-2} c_{55}^1 c_{55}^3 + 96\sqrt{5}c_{53}^{-2} c_{55}^{-2} c_{55}^0 c_{55}^4 \\
&\quad +28\sqrt{15}c_{53}^{-2} c_{55}^{-2} c_{55}^{-1} c_{55}^5 + 15\sqrt{14}c_{53}^{-2} c_{55}^{-3} c_{55}^2 c_{55}^3 - 150\sqrt{3}c_{53}^{-2} c_{55}^{-3} c_{55}^0 c_{55}^5 \\
&\quad -30\sqrt{14}c_{53}^{-2} c_{55}^{-4} c_{55}^2 c_{55}^4 + 120\sqrt{5}c_{53}^{-2} c_{55}^{-4} c_{55}^1 c_{55}^5 + 6\sqrt{210}c_{53}^{-2} c_{55}^{-5} c_{55}^3 c_{55}^4 \\
&\quad -45\sqrt{14}c_{53}^{-2} c_{55}^{-5} c_{55}^2 c_{55}^5 - 25\sqrt{3}c_{53}^{-3}(c_{55}^0)^3 + 15\sqrt{70}c_{53}^{-3} c_{55}^0 c_{55}^1 c_{55}^2 - 30\sqrt{14}c_{53}^{-3}(c_{55}^0)^2 c_{55}^3 \\
&\quad -70\sqrt{3}c_{53}^{-3} c_{55}^{-1}(c_{55}^2)^2 + 30\sqrt{14}c_{53}^{-3} c_{55}^{-1} c_{55}^1 c_{55}^3 + 6\sqrt{210}c_{53}^{-3} c_{55}^{-1} c_{55}^0 c_{55}^4 \\
&\quad -3\sqrt{70}c_{53}^{-3}(c_{55}^{-1})^2 c_{55}^5 + 30\sqrt{14}c_{53}^{-3} c_{55}^{-2} c_{55}^2 c_{55}^3 - 180 c_{53}^{-3} c_{55}^{-2} c_{55}^1 c_{55}^4 - 30\sqrt{14}c_{53}^{-3} c_{55}^{-2}(c_{55}^3)^2 \\
&\quad +15\sqrt{42}c_{53}^{-3} c_{55}^{-3} c_{55}^2 c_{55}^4 + 30\sqrt{15}c_{53}^{-3} c_{55}^{-3} c_{55}^1 c_{55}^5 + 30\sqrt{14}c_{53}^{-3} c_{55}^{-4} c_{55}^3 c_{55}^4 \\
&\quad \left. -15\sqrt{210}c_{53}^{-3} c_{55}^{-4} c_{55}^2 c_{55}^5 - 18\sqrt{70}c_{53}^{-3} c_{55}^{-5}(c_{55}^4)^2 + 60\sqrt{14}c_{53}^{-3} c_{55}^{-5} c_{55}^3 c_{55}^5 \right) / (c_{00}^0)^{32/3}
\end{aligned}
$$

$$
\begin{aligned}
\Phi_{97} \;=\; & c_5(5,5)_4 c_5(5,1)_4 = \frac{1}{33}\sqrt{\frac{1}{65}}\big(-\sqrt{30}\,c_{51}^1 c_{55}^{-1}(c_{55}^0)^2 + 2\sqrt{30}\,c_{51}^1 (c_{55}^{-1})^2 c_{55}^1 \\
& +2\sqrt{7}\,c_{51}^1 c_{55}^{-2} c_{55}^0 c_{55}^1 - 5\sqrt{30}\,c_{51}^1 c_{55}^{-2} c_{55}^{-1} c_{55}^2 + 5\sqrt{35}\,c_{51}^1 (c_{55}^{-2})^2 c_{55}^3 - 4\sqrt{35}\,c_{51}^1 c_{55}^{-3}(c_{55}^1)^2 \\
& +18\sqrt{6}\,c_{51}^1 c_{55}^{-3} c_{55}^0 c_{55}^2 - 4\sqrt{30}\,c_{51}^1 c_{55}^{-3} c_{55}^{-1} c_{55}^3 - 4\sqrt{105}\,c_{51}^1 c_{55}^{-3} c_{55}^{-2} c_{55}^4 \\
& +24\sqrt{7}\,c_{51}^1 (c_{55}^{-3})^2 c_{55}^5 + 6\sqrt{10}\,c_{51}^1 c_{55}^{-4} c_{55}^1 c_{55}^2 - 42\sqrt{2}\,c_{51}^1 c_{55}^{-4} c_{55}^0 c_{55}^3 \\
& +18\sqrt{30}\,c_{51}^1 c_{55}^{-4} c_{55}^{-1} c_{55}^4 - 24\sqrt{21}\,c_{51}^1 c_{55}^{-4} c_{55}^{-2} c_{55}^5 - 21\sqrt{7}\,c_{51}^1 c_{55}^{-5}(c_{55}^2)^2 \\
& +44\sqrt{6}\,c_{51}^1 c_{55}^{-5} c_{55}^1 c_{55}^3 - 30\sqrt{10}\,c_{51}^1 c_{55}^{-5} c_{55}^0 c_{55}^4 + 12\sqrt{30}\,c_{51}^1 c_{55}^{-5} c_{55}^{-1} c_{55}^5 + 15\sqrt{2}\,c_{51}^0 (c_{55}^0)^3 \\
& -44\sqrt{2}\,c_{51}^0 c_{55}^{-1} c_{55}^0 c_{55}^1 + 6\sqrt{105}\,c_{51}^0 (c_{55}^{-1})^2 c_{55}^2 + 6\sqrt{105}\,c_{51}^0 c_{55}^{-2}(c_{55}^1)^2 \\
& -47\sqrt{2}\,c_{51}^0 c_{55}^{-2} c_{55}^0 c_{55}^2 - 16\sqrt{10}\,c_{51}^0 c_{55}^{-2} c_{55}^{-1} c_{55}^3 + 9\sqrt{35}\,c_{51}^0 (c_{55}^{-2})^2 c_{55}^4 \\
& -16\sqrt{10}\,c_{51}^0 c_{55}^{-3} c_{55}^1 c_{55}^2 + 78\sqrt{2}\,c_{51}^0 c_{55}^{-3} c_{55}^0 c_{55}^3 - 14\sqrt{30}\,c_{51}^0 c_{55}^{-3} c_{55}^{-1} c_{55}^4 \\
& -4\sqrt{21}\,c_{51}^0 c_{55}^{-3} c_{55}^{-2} c_{55}^5 + 9\sqrt{35}\,c_{51}^0 c_{55}^{-4}(c_{55}^2)^2 - 14\sqrt{30}\,c_{51}^0 c_{55}^{-4} c_{55}^1 c_{55}^3 + 6\sqrt{2}\,c_{51}^0 c_{55}^{-4} c_{55}^0 c_{55}^4 \\
& +18\sqrt{6}\,c_{51}^0 c_{55}^{-4} c_{55}^{-1} c_{55}^5 - 4\sqrt{21}\,c_{51}^0 c_{55}^{-5} c_{55}^2 c_{55}^3 + 18\sqrt{6}\,c_{51}^0 c_{55}^{-5} c_{55}^1 c_{55}^4 \\
& -30\sqrt{2}\,c_{51}^0 c_{55}^{-5} c_{55}^0 c_{55}^5 - \sqrt{30}\,c_{51}^{-1}(c_{55}^0)^2 c_{55}^1 + 2\sqrt{30}\,c_{51}^{-1} c_{55}^{-1}(c_{55}^1)^2 + 2\sqrt{7}\,c_{51}^{-1} c_{55}^{-1} c_{55}^0 c_{55}^2 \\
& -4\sqrt{35}\,c_{51}^{-1}(c_{55}^{-1})^2 c_{55}^3 - 5\sqrt{30}\,c_{51}^{-1} c_{55}^{-2} c_{55}^1 c_{55}^2 + 18\sqrt{6}\,c_{51}^{-1} c_{55}^{-2} c_{55}^0 c_{55}^3 + 6\sqrt{10}\,c_{51}^{-1} c_{55}^{-2} c_{55}^{-1} c_{55}^4 \\
& -21\sqrt{7}\,c_{51}^{-1}(c_{55}^{-2})^2 c_{55}^5 + 5\sqrt{35}\,c_{51}^{-1} c_{55}^{-3}(c_{55}^2)^2 - 4\sqrt{30}\,c_{51}^{-1} c_{55}^{-3} c_{55}^1 c_{55}^3 - 42\sqrt{2}\,c_{51}^{-1} c_{55}^{-3} c_{55}^0 c_{55}^4 \\
& +44\sqrt{6}\,c_{51}^{-1} c_{55}^{-3} c_{55}^{-1} c_{55}^5 - 4\sqrt{105}\,c_{51}^{-1} c_{55}^{-4} c_{55}^2 c_{55}^3 + 18\sqrt{30}\,c_{51}^{-1} c_{55}^{-4} c_{55}^1 c_{55}^4 \\
& -30\sqrt{10}\,c_{51}^{-1} c_{55}^{-4} c_{55}^0 c_{55}^5 + 24\sqrt{7}\,c_{51}^{-1} c_{55}^{-5}(c_{55}^3)^2 - 24\sqrt{21}\,c_{51}^{-1} c_{55}^{-5} c_{55}^2 c_{55}^4 \\
& +12\sqrt{30}\,c_{51}^{-1} c_{55}^{-5} c_{55}^1 c_{55}^5\big)/(c_{00}^0)^{32/3}
\end{aligned}
$$

$$\Phi_{98} = c_5(5,5)_4 c_5(3,3)_4 = \frac{1}{33}\sqrt{\frac{1}{91}}(35(c_{53}^2)^2(c_{55}^{-2})^2 - 10\sqrt{42}(c_{53}^2)^2 c_{55}^{-3} c_{55}^{-1} + 6\sqrt{70}(c_{53}^2)^2 c_{55}^{-4} c_{55}^0$$
$$-2\sqrt{210}(c_{53}^2)^2 c_{55}^{-5} c_{55}^1 - 14\sqrt{15} c_{53}^1 c_{53}^3 (c_{55}^{-2})^2 + 12\sqrt{70} c_{53}^1 c_{53}^3 c_{55}^{-3} c_{55}^{-1}$$
$$-12\sqrt{42} c_{53}^1 c_{53}^3 c_{55}^{-4} c_{55}^0 + 12\sqrt{14} c_{53}^1 c_{53}^3 c_{55}^{-5} c_{55}^1 - 2\sqrt{70} c_{53}^1 c_{53}^2 c_{55}^{-2} c_{55}^{-1}$$
$$+12\sqrt{14} c_{53}^1 c_{53}^2 c_{55}^{-3} c_{55}^0 - 4\sqrt{210} c_{53}^1 c_{53}^2 c_{55}^{-4} c_{55}^1 + 28\sqrt{3} c_{53}^1 c_{53}^2 c_{55}^{-5} c_{55}^2 + 20(c_{53}^1)^2(c_{55}^{-1})^2$$
$$-2\sqrt{210}(c_{53}^1)^2 c_{55}^{-2} c_{55}^0 + 20\sqrt{3}(c_{53}^1)^2 c_{55}^{-4} c_{55}^2 - 24\sqrt{5}(c_{53}^1)^2 c_{55}^{-5} c_{55}^3 + 6\sqrt{35} c_{53}^0 c_{53}^3 c_{55}^{-2} c_{55}^{-1}$$
$$-36\sqrt{7} c_{53}^0 c_{53}^3 c_{55}^{-3} c_{55}^0 + 12\sqrt{105} c_{53}^0 c_{53}^3 c_{55}^{-4} c_{55}^1 - 42\sqrt{6} c_{53}^0 c_{53}^3 c_{55}^{-5} c_{55}^2$$
$$-2\sqrt{30} c_{53}^0 c_{53}^2 (c_{55}^{-1})^2 + 6\sqrt{7} c_{53}^0 c_{53}^2 c_{55}^{-2} c_{55}^0 - 6\sqrt{10} c_{53}^0 c_{53}^2 c_{55}^{-4} c_{55}^2 + 12\sqrt{6} c_{53}^0 c_{53}^2 c_{55}^{-5} c_{55}^3$$
$$-6\sqrt{10} c_{53}^0 c_{53}^1 c_{55}^{-1} c_{55}^0 + 10\sqrt{21} c_{53}^0 c_{53}^1 c_{55}^{-2} c_{55}^1 - 30\sqrt{2} c_{53}^0 c_{53}^1 c_{55}^{-3} c_{55}^2$$
$$+12\sqrt{30} c_{53}^0 c_{53}^1 c_{55}^{-5} c_{55}^4 + 18(c_{53}^0)^2(c_{55}^0)^2 - 24(c_{53}^0)^2 c_{55}^{-1} c_{55}^1 - 6(c_{53}^0)^2 c_{55}^{-2} c_{55}^2$$
$$+36(c_{53}^0)^2 c_{55}^{-3} c_{55}^3 - 36(c_{53}^0)^2 c_{55}^{-4} c_{55}^4 - 36(c_{53}^0)^2 c_{55}^{-5} c_{55}^5 - 12\sqrt{15} c_{53}^{-1} c_{53}^3 (c_{55}^{-1})^2$$
$$+18\sqrt{14} c_{53}^{-1} c_{53}^3 c_{55}^{-2} c_{55}^0 - 36\sqrt{5} c_{53}^{-1} c_{53}^3 c_{55}^{-4} c_{55}^2 + 72\sqrt{3} c_{53}^{-1} c_{53}^3 c_{55}^{-5} c_{55}^3$$
$$+16\sqrt{3} c_{53}^{-1} c_{53}^2 c_{55}^{-1} c_{55}^0 - 8\sqrt{70} c_{53}^{-1} c_{53}^2 c_{55}^{-2} c_{55}^1 + 16\sqrt{15} c_{53}^{-1} c_{53}^2 c_{55}^{-3} c_{55}^2 - 96 c_{53}^{-1} c_{53}^2 c_{55}^{-5} c_{55}^4$$
$$-6 c_{53}^{-1} c_{53}^1 (c_{55}^0)^2 + 8 c_{53}^{-1} c_{53}^1 c_{55}^{-1} c_{55}^1 + 2 c_{53}^{-1} c_{53}^1 c_{55}^{-2} c_{55}^2 - 12 c_{53}^{-1} c_{53}^1 c_{55}^{-3} c_{55}^3$$
$$+12 c_{53}^{-1} c_{53}^1 c_{55}^{-4} c_{55}^4 + 12 c_{53}^{-1} c_{53}^1 c_{55}^{-5} c_{55}^5 - 6\sqrt{10} c_{53}^{-1} c_{53}^0 c_{55}^0 c_{55}^1 + 10\sqrt{21} c_{53}^{-1} c_{53}^0 c_{55}^{-1} c_{55}^2$$
$$-30\sqrt{2} c_{53}^{-1} c_{53}^0 c_{55}^{-2} c_{55}^3 + 12\sqrt{30} c_{53}^{-1} c_{53}^0 c_{55}^{-4} c_{55}^5 + 20(c_{53}^{-1})^2(c_{55}^1)^2 - 2\sqrt{210}(c_{53}^{-1})^2 c_{55}^0 c_{55}^2$$
$$+20\sqrt{3}(c_{53}^{-1})^2 c_{55}^{-2} c_{55}^4 - 24\sqrt{5}(c_{53}^{-1})^2 c_{55}^{-3} c_{55}^5 + 12\sqrt{5} c_{53}^{-2} c_{53}^3 c_{55}^{-1} c_{55}^0 - 10\sqrt{42} c_{53}^{-2} c_{53}^3 c_{55}^{-2} c_{55}^1$$
$$+60 c_{53}^{-2} c_{53}^3 c_{55}^{-3} c_{55}^2 - 24\sqrt{15} c_{53}^{-2} c_{53}^3 c_{55}^{-5} c_{55}^4 - 42 c_{53}^{-2} c_{53}^2 (c_{55}^0)^2 + 56 c_{53}^{-2} c_{53}^2 c_{55}^{-1} c_{55}^1$$
$$+14 c_{53}^{-2} c_{53}^2 c_{55}^{-2} c_{55}^2 - 84 c_{53}^{-2} c_{53}^2 c_{55}^{-3} c_{55}^3 + 84 c_{53}^{-2} c_{53}^2 c_{55}^{-4} c_{55}^4 + 84 c_{53}^{-2} c_{53}^2 c_{55}^{-5} c_{55}^5$$
$$+16\sqrt{3} c_{53}^{-2} c_{53}^1 c_{55}^0 c_{55}^1 - 8\sqrt{70} c_{53}^{-2} c_{53}^1 c_{55}^{-1} c_{55}^2 + 16\sqrt{15} c_{53}^{-2} c_{53}^1 c_{55}^{-2} c_{55}^3 - 96 c_{53}^{-2} c_{53}^1 c_{55}^{-4} c_{55}^5$$
$$-2\sqrt{30} c_{53}^{-2} c_{53}^0 (c_{55}^1)^2 + 6\sqrt{7} c_{53}^{-2} c_{53}^0 c_{55}^0 c_{55}^2 - 6\sqrt{10} c_{53}^{-2} c_{53}^0 c_{55}^{-2} c_{55}^4 + 12\sqrt{6} c_{53}^{-2} c_{53}^0 c_{55}^{-3} c_{55}^5$$
$$-2\sqrt{70} c_{53}^{-2} c_{53}^{-1} c_{55}^1 c_{55}^2 + 12\sqrt{14} c_{53}^{-2} c_{53}^{-1} c_{55}^0 c_{55}^3 - 4\sqrt{210} c_{53}^{-2} c_{53}^{-1} c_{55}^{-1} c_{55}^4$$
$$+28\sqrt{3} c_{53}^{-2} c_{53}^{-1} c_{55}^{-2} c_{55}^5 + 35(c_{53}^{-2})^2(c_{55}^2)^2 - 10\sqrt{42}(c_{53}^{-2})^2 c_{55}^1 c_{55}^3 + 6\sqrt{70}(c_{53}^{-2})^2 c_{55}^0 c_{55}^4$$
$$-2\sqrt{210}(c_{53}^{-2})^2 c_{55}^{-1} c_{55}^5 - 18 c_{53}^{-3} c_{53}^3 (c_{55}^0)^2 + 24 c_{53}^{-3} c_{53}^3 c_{55}^{-1} c_{55}^1 + 6 c_{53}^{-3} c_{53}^3 c_{55}^{-2} c_{55}^2$$
$$-36 c_{53}^{-3} c_{53}^3 c_{55}^{-3} c_{55}^3 + 36 c_{53}^{-3} c_{53}^3 c_{55}^{-4} c_{55}^4 + 36 c_{53}^{-3} c_{53}^3 c_{55}^{-5} c_{55}^5 + 12\sqrt{5} c_{53}^{-3} c_{53}^2 c_{55}^0 c_{55}^1$$
$$-10\sqrt{42} c_{53}^{-3} c_{53}^2 c_{55}^{-1} c_{55}^2 + 60 c_{53}^{-3} c_{53}^2 c_{55}^{-2} c_{55}^3 - 24\sqrt{15} c_{53}^{-3} c_{53}^2 c_{55}^{-4} c_{55}^5$$
$$-12\sqrt{15} c_{53}^{-3} c_{53}^1 (c_{55}^1)^2 + 18\sqrt{14} c_{53}^{-3} c_{53}^1 c_{55}^0 c_{55}^2 - 36\sqrt{5} c_{53}^{-3} c_{53}^1 c_{55}^{-2} c_{55}^4$$
$$+72\sqrt{3} c_{53}^{-3} c_{53}^1 c_{55}^{-3} c_{55}^5 + 6\sqrt{35} c_{53}^{-3} c_{53}^0 c_{55}^1 c_{55}^2 - 36\sqrt{7} c_{53}^{-3} c_{53}^0 c_{55}^0 c_{55}^3$$
$$+12\sqrt{105} c_{53}^{-3} c_{53}^0 c_{55}^{-1} c_{55}^4 - 42\sqrt{6} c_{53}^{-3} c_{53}^0 c_{55}^{-2} c_{55}^5 - 14\sqrt{15} c_{53}^{-3} c_{53}^{-1} (c_{55}^2)^2$$
$$+12\sqrt{70} c_{53}^{-3} c_{53}^{-1} c_{55}^1 c_{55}^3 - 12\sqrt{42} c_{53}^{-3} c_{53}^{-1} c_{55}^0 c_{55}^4 + 12\sqrt{14} c_{53}^{-3} c_{53}^{-1} c_{55}^{-1} c_{55}^5)/(c_{00}^0)^{32/3}$$

$$\begin{aligned}
\Phi_{99} &= c_5(5,5)_4 c_5(3,1)_4 = \frac{1}{3}\sqrt{\frac{1}{2002}}(-7\sqrt{10}c_{51}^1 c_{53}^3 (c_{55}^{-2})^2 + 4\sqrt{105}c_{51}^1 c_{53}^3 c_{55}^{-3} c_{55}^{-1} \\
&\quad -12\sqrt{7}c_{51}^1 c_{53}^3 c_{55}^{-4} c_{55}^0 + 4\sqrt{21}c_{51}^1 c_{53}^3 c_{55}^{-5} c_{55}^1 + \sqrt{105}c_{51}^1 c_{53}^2 c_{55}^{-2} c_{55}^{-1} \\
&\quad -6\sqrt{21}c_{51}^1 c_{53}^2 c_{55}^{-3} c_{55}^0 + 6\sqrt{35}c_{51}^1 c_{53}^2 c_{55}^{-4} c_{55}^1 - 21\sqrt{2}c_{51}^1 c_{53}^2 c_{55}^{-5} c_{55}^2 - 5\sqrt{6}c_{51}^1 c_{53}^1 (c_{55}^{-1})^2 \\
&\quad +3\sqrt{35}c_{51}^1 c_{53}^1 c_{55}^{-2} c_{55}^0 - 15\sqrt{2}c_{51}^1 c_{53}^1 c_{55}^{-4} c_{55}^2 + 6\sqrt{30}c_{51}^1 c_{53}^1 c_{55}^{-5} c_{55}^3 \\
&\quad +2\sqrt{15}c_{51}^1 c_{53}^0 c_{55}^{-1} c_{55}^0 - 5\sqrt{14}c_{51}^1 c_{53}^0 c_{55}^{-2} c_{55}^1 + 10\sqrt{3}c_{51}^1 c_{53}^0 c_{55}^{-3} c_{55}^2 \\
&\quad -12\sqrt{5}c_{51}^1 c_{53}^0 c_{55}^{-5} c_{55}^4 - 3\sqrt{6}c_{51}^1 c_{53}^{-1} (c_{55}^0)^2 + 4\sqrt{6}c_{51}^1 c_{53}^{-1} c_{55}^{-1} c_{55}^1 + \sqrt{6}c_{51}^1 c_{53}^{-1} c_{55}^{-2} c_{55}^2 \\
&\quad -6\sqrt{6}c_{51}^1 c_{53}^{-1} c_{55}^{-3} c_{55}^3 + 6\sqrt{6}c_{51}^1 c_{53}^{-1} c_{55}^{-4} c_{55}^4 + 6\sqrt{6}c_{51}^1 c_{53}^{-1} c_{55}^{-5} c_{55}^5 + 3\sqrt{2}c_{51}^1 c_{53}^{-2} c_{55}^0 c_{55}^1 \\
&\quad -\sqrt{105}c_{51}^1 c_{53}^{-2} c_{55}^{-1} c_{55}^2 + 3\sqrt{10}c_{51}^1 c_{53}^{-2} c_{55}^{-2} c_{55}^3 - 6\sqrt{6}c_{51}^1 c_{53}^{-2} c_{55}^{-4} c_{55}^5 - \sqrt{10}c_{51}^1 c_{53}^{-3} (c_{55}^1)^2 \\
&\quad +\sqrt{21}c_{51}^1 c_{53}^{-3} c_{55}^0 c_{55}^2 - \sqrt{30}c_{51}^1 c_{53}^{-3} c_{55}^{-2} c_{55}^4 + 6\sqrt{2}c_{51}^1 c_{53}^{-3} c_{55}^{-3} c_{55}^5 + \sqrt{35}c_{51}^0 c_{53}^3 c_{55}^{-2} c_{55}^{-1} \\
&\quad -6\sqrt{7}c_{51}^0 c_{53}^3 c_{55}^{-3} c_{55}^0 + 2\sqrt{105}c_{51}^0 c_{53}^3 c_{55}^{-4} c_{55}^1 - 7\sqrt{6}c_{51}^0 c_{53}^3 c_{55}^{-5} c_{55}^2 - 2\sqrt{30}c_{51}^0 c_{53}^2 (c_{55}^{-1})^2 \\
&\quad +6\sqrt{7}c_{51}^0 c_{53}^2 c_{55}^{-2} c_{55}^0 - 6\sqrt{10}c_{51}^0 c_{53}^2 c_{55}^{-4} c_{55}^2 + 12\sqrt{6}c_{51}^0 c_{53}^2 c_{55}^{-5} c_{55}^3 + 3\sqrt{10}c_{51}^0 c_{53}^1 c_{55}^{-1} c_{55}^0 \\
&\quad -5\sqrt{21}c_{51}^0 c_{53}^1 c_{55}^{-2} c_{55}^1 + 15\sqrt{2}c_{51}^0 c_{53}^1 c_{55}^{-3} c_{55}^2 - 6\sqrt{30}c_{51}^0 c_{53}^1 c_{55}^{-5} c_{55}^4 - 12c_{51}^0 c_{53}^0 (c_{55}^0)^2 \\
&\quad +16c_{51}^0 c_{53}^0 c_{55}^{-1} c_{55}^1 + 4c_{51}^0 c_{53}^0 c_{55}^{-2} c_{55}^2 - 24c_{51}^0 c_{53}^0 c_{55}^{-3} c_{55}^3 + 24c_{51}^0 c_{53}^0 c_{55}^{-4} c_{55}^4 \\
&\quad +24c_{51}^0 c_{53}^0 c_{55}^{-5} c_{55}^5 + 3\sqrt{10}c_{51}^0 c_{53}^1 c_{55}^0 c_{55}^1 - 5\sqrt{21}c_{51}^0 c_{53}^1 c_{55}^{-1} c_{55}^2 + 15\sqrt{2}c_{51}^0 c_{53}^1 c_{55}^{-2} c_{55}^3 \\
&\quad -6\sqrt{30}c_{51}^0 c_{53}^1 c_{55}^{-4} c_{55}^5 - 2\sqrt{30}c_{51}^0 c_{53}^{-2} (c_{55}^1)^2 + 6\sqrt{7}c_{51}^0 c_{53}^{-2} c_{55}^0 c_{55}^2 - 6\sqrt{10}c_{51}^0 c_{53}^{-2} c_{55}^{-2} c_{55}^4 \\
&\quad +12\sqrt{6}c_{51}^0 c_{53}^{-2} c_{55}^{-3} c_{55}^5 + \sqrt{35}c_{51}^0 c_{53}^{-3} c_{55}^1 c_{55}^2 - 6\sqrt{7}c_{51}^0 c_{53}^{-3} c_{55}^0 c_{55}^3 + 2\sqrt{105}c_{51}^0 c_{53}^{-3} c_{55}^{-1} c_{55}^4 \\
&\quad -7\sqrt{6}c_{51}^0 c_{53}^{-3} c_{55}^{-2} c_{55}^5 - \sqrt{10}c_{51}^{-1} c_{53}^3 (c_{55}^{-1})^2 + \sqrt{21}c_{51}^{-1} c_{53}^3 c_{55}^{-2} c_{55}^0 - \sqrt{30}c_{51}^{-1} c_{53}^3 c_{55}^{-4} c_{55}^2 \\
&\quad +6\sqrt{2}c_{51}^{-1} c_{53}^3 c_{55}^{-5} c_{55}^3 + 3\sqrt{2}c_{51}^{-1} c_{53}^2 c_{55}^{-1} c_{55}^0 - \sqrt{105}c_{51}^{-1} c_{53}^2 c_{55}^{-2} c_{55}^1 + 3\sqrt{10}c_{51}^{-1} c_{53}^2 c_{55}^{-3} c_{55}^2 \\
&\quad -6\sqrt{6}c_{51}^{-1} c_{53}^2 c_{55}^{-5} c_{55}^4 - 3\sqrt{6}c_{51}^{-1} c_{53}^1 (c_{55}^0)^2 + 4\sqrt{6}c_{51}^{-1} c_{53}^1 c_{55}^{-1} c_{55}^1 + \sqrt{6}c_{51}^{-1} c_{53}^1 c_{55}^{-2} c_{55}^2 \\
&\quad -6\sqrt{6}c_{51}^{-1} c_{53}^1 c_{55}^{-3} c_{55}^3 + 6\sqrt{6}c_{51}^{-1} c_{53}^1 c_{55}^{-4} c_{55}^4 + 6\sqrt{6}c_{51}^{-1} c_{53}^1 c_{55}^{-5} c_{55}^5 + 2\sqrt{15}c_{51}^{-1} c_{53}^0 c_{55}^0 c_{55}^1 \\
&\quad -5\sqrt{14}c_{51}^{-1} c_{53}^0 c_{55}^{-1} c_{55}^2 + 10\sqrt{3}c_{51}^{-1} c_{53}^0 c_{55}^{-2} c_{55}^3 - 12\sqrt{5}c_{51}^{-1} c_{53}^0 c_{55}^{-4} c_{55}^5 - 5\sqrt{6}c_{51}^{-1} c_{53}^{-1} (c_{55}^1)^2 \\
&\quad +3\sqrt{35}c_{51}^{-1} c_{53}^{-1} c_{55}^0 c_{55}^2 - 15\sqrt{2}c_{51}^{-1} c_{53}^{-1} c_{55}^{-2} c_{55}^4 + 6\sqrt{30}c_{51}^{-1} c_{53}^{-1} c_{55}^{-3} c_{55}^5 \\
&\quad +\sqrt{105}c_{51}^{-1} c_{53}^{-2} c_{55}^1 c_{55}^2 - 6\sqrt{21}c_{51}^{-1} c_{53}^{-2} c_{55}^0 c_{55}^3 + 6\sqrt{35}c_{51}^{-1} c_{53}^{-2} c_{55}^{-1} c_{55}^4 \\
&\quad -21\sqrt{2}c_{51}^{-1} c_{53}^{-2} c_{55}^{-2} c_{55}^5 - 7\sqrt{10}c_{51}^{-1} c_{53}^{-3} (c_{55}^2)^2 + 4\sqrt{105}c_{51}^{-1} c_{53}^{-3} c_{55}^1 c_{55}^3 \\
&\quad -12\sqrt{7}c_{51}^{-1} c_{53}^{-3} c_{55}^0 c_{55}^4 + 4\sqrt{21}c_{51}^{-1} c_{53}^{-3} c_{55}^{-1} c_{55}^5)/(c_{00}^0)^{32/3}
\end{aligned}$$

$$
\begin{aligned}
\Phi_{100} \;=\; c_5(5,3)_4\,c_5(3,1)_4 \;=\;& \frac{1}{84}\sqrt{\frac{1}{715}}\bigl(-105\sqrt{14}\,c_{51}^1(c_{53}^2)^2 c_{55}^{-5} + 43\sqrt{210}\,c_{51}^1 c_{53}^1 c_{53}^3 c_{55}^{-5}\\
&+81\sqrt{14}\,c_{51}^1 c_{53}^1 c_{53}^2 c_{55}^{-4} - 27\sqrt{70}\,c_{51}^1(c_{53}^1)^2 c_{55}^{-3} - 258\sqrt{7}\,c_{51}^1 c_{53}^0 c_{53}^3 c_{55}^{-4}\\
&+32\sqrt{21}\,c_{51}^1 c_{53}^0 c_{53}^2 c_{55}^{-3} + 38\sqrt{35}\,c_{51}^1 c_{53}^0 c_{53}^1 c_{55}^{-2} - 38\sqrt{15}\,c_{51}^1(c_{53}^0)^2 c_{55}^{-1}\\
&+86\sqrt{42}\,c_{51}^1 c_{53}^{-1} c_{53}^3 c_{55}^{-3} - 59\sqrt{42}\,c_{51}^1 c_{53}^{-1} c_{53}^2 c_{55}^{-2} + 21\sqrt{15}\,c_{51}^1 c_{53}^{-1} c_{53}^1 c_{55}^{-1}\\
&+55\sqrt{6}\,c_{51}^1 c_{53}^{-1} c_{53}^0 c_{55}^0 - 22\sqrt{15}\,c_{51}^1(c_{53}^{-1})^2 c_{55}^1 - 43\sqrt{70}\,c_{51}^1 c_{53}^{-2} c_{53}^3 c_{55}^{-2}\\
&+102\sqrt{15}\,c_{51}^1 c_{53}^{-2} c_{53}^2 c_{55}^{-1} - 123\sqrt{5}\,c_{51}^1 c_{53}^{-2} c_{53}^1 c_{55}^0 + 68\sqrt{2}\,c_{51}^1 c_{53}^{-2} c_{53}^0 c_{55}^1\\
&+6\sqrt{42}\,c_{51}^1 c_{53}^{-2} c_{53}^{-1} c_{55}^2 - 3\sqrt{70}\,c_{51}^1(c_{53}^{-2})^2 c_{55}^3 + 43\sqrt{15}\,c_{51}^1 c_{53}^{-3} c_{53}^3 c_{55}^{-1}\\
&-145\sqrt{3}\,c_{51}^1 c_{53}^{-3} c_{53}^2 c_{55}^0 + 268\,c_{51}^1 c_{53}^{-3} c_{53}^1 c_{55}^1 - 48\sqrt{21}\,c_{51}^1 c_{53}^{-3} c_{53}^0 c_{55}^2\\
&+21\sqrt{42}\,c_{51}^1 c_{53}^{-3} c_{53}^{-1} c_{55}^3 - 5\sqrt{210}\,c_{51}^1 c_{53}^{-3} c_{53}^{-2} c_{55}^4 + 15\sqrt{14}\,c_{51}^1(c_{53}^{-3})^2 c_{55}^5\\
&-5\sqrt{42}\,c_{51}^0 c_{53}^2 c_{53}^3 c_{55}^{-5} + 24\sqrt{70}\,c_{51}^0(c_{53}^2)^2 c_{55}^{-4} - 38\sqrt{42}\,c_{51}^0 c_{53}^1 c_{53}^3 c_{55}^{-4}\\
&-69\sqrt{14}\,c_{51}^0 c_{53}^1 c_{53}^2 c_{55}^{-3} + 16\sqrt{210}\,c_{51}^0(c_{53}^1)^2 c_{55}^{-2} + 162\sqrt{7}\,c_{51}^0 c_{53}^0 c_{53}^3 c_{55}^{-3}\\
&-28\sqrt{7}\,c_{51}^0 c_{53}^0 c_{53}^2 c_{55}^{-2} - 101\sqrt{10}\,c_{51}^0 c_{53}^0 c_{53}^1 c_{55}^{-1} + 240\,c_{51}^0(c_{53}^0)^2 c_{55}^0\\
&-124\sqrt{14}\,c_{51}^0 c_{53}^{-1} c_{53}^3 c_{55}^{-2} + 211\sqrt{3}\,c_{51}^0 c_{53}^{-1} c_{53}^2 c_{55}^{-1} - 30\,c_{51}^0 c_{53}^{-1} c_{53}^1 c_{55}^0\\
&-101\sqrt{10}\,c_{51}^0 c_{53}^{-1} c_{53}^0 c_{55}^1 + 16\sqrt{210}\,c_{51}^0(c_{53}^{-1})^2 c_{55}^2 + 167\sqrt{5}\,c_{51}^0 c_{53}^{-2} c_{53}^3 c_{55}^{-1}\\
&-480\,c_{51}^0 c_{53}^{-2} c_{53}^2 c_{55}^0 + 211\sqrt{3}\,c_{51}^0 c_{53}^{-2} c_{53}^1 c_{55}^1 - 28\sqrt{7}\,c_{51}^0 c_{53}^{-2} c_{53}^0 c_{55}^2\\
&-69\sqrt{14}\,c_{51}^0 c_{53}^{-2} c_{53}^{-1} c_{55}^3 + 24\sqrt{70}\,c_{51}^0(c_{53}^{-2})^2 c_{55}^4 - 210\,c_{51}^0 c_{53}^{-3} c_{53}^3 c_{55}^0\\
&+167\sqrt{5}\,c_{51}^0 c_{53}^{-3} c_{53}^2 c_{55}^1 - 124\sqrt{14}\,c_{51}^0 c_{53}^{-3} c_{53}^1 c_{55}^2 + 162\sqrt{7}\,c_{51}^0 c_{53}^{-3} c_{53}^0 c_{55}^3\\
&-38\sqrt{42}\,c_{51}^0 c_{53}^{-3} c_{53}^{-1} c_{55}^4 - 5\sqrt{42}\,c_{51}^0 c_{53}^{-3} c_{53}^{-2} c_{55}^5 + 15\sqrt{14}\,c_{51}^{-1}(c_{53}^3)^2 c_{55}^{-5}\\
&-5\sqrt{210}\,c_{51}^{-1} c_{53}^2 c_{53}^3 c_{55}^{-4} - 3\sqrt{70}\,c_{51}^{-1}(c_{53}^2)^2 c_{55}^{-3} + 21\sqrt{42}\,c_{51}^{-1} c_{53}^1 c_{53}^3 c_{55}^{-3}\\
&+6\sqrt{42}\,c_{51}^{-1} c_{53}^1 c_{53}^2 c_{55}^{-2} - 22\sqrt{15}\,c_{51}^{-1}(c_{53}^1)^2 c_{55}^{-1} - 48\sqrt{21}\,c_{51}^{-1} c_{53}^0 c_{53}^3 c_{55}^{-2}\\
&+68\sqrt{2}\,c_{51}^{-1} c_{53}^0 c_{53}^2 c_{55}^{-1} + 55\sqrt{6}\,c_{51}^{-1} c_{53}^0 c_{53}^1 c_{55}^0 - 38\sqrt{15}\,c_{51}^{-1}(c_{53}^0)^2 c_{55}^1 + 268\,c_{51}^{-1} c_{53}^{-1} c_{53}^3 c_{55}^{-1}\\
&-123\sqrt{5}\,c_{51}^{-1} c_{53}^{-1} c_{53}^2 c_{55}^0 + 21\sqrt{15}\,c_{51}^{-1} c_{53}^{-1} c_{53}^1 c_{55}^1 + 38\sqrt{35}\,c_{51}^{-1} c_{53}^{-1} c_{53}^0 c_{55}^2\\
&-27\sqrt{70}\,c_{51}^{-1}(c_{53}^{-1})^2 c_{55}^3 - 145\sqrt{3}\,c_{51}^{-1} c_{53}^{-2} c_{53}^3 c_{55}^0 + 102\sqrt{15}\,c_{51}^{-1} c_{53}^{-2} c_{53}^2 c_{55}^1\\
&-59\sqrt{42}\,c_{51}^{-1} c_{53}^{-2} c_{53}^1 c_{55}^2 + 32\sqrt{21}\,c_{51}^{-1} c_{53}^{-2} c_{53}^0 c_{55}^3 + 81\sqrt{14}\,c_{51}^{-1} c_{53}^{-2} c_{53}^{-1} c_{55}^4\\
&-105\sqrt{14}\,c_{51}^{-1}(c_{53}^{-2})^2 c_{55}^5 + 43\sqrt{15}\,c_{51}^{-1} c_{53}^{-3} c_{53}^3 c_{55}^1 - 43\sqrt{70}\,c_{51}^{-1} c_{53}^{-3} c_{53}^2 c_{55}^2\\
&+86\sqrt{42}\,c_{51}^{-1} c_{53}^{-3} c_{53}^1 c_{55}^3 - 258\sqrt{7}\,c_{51}^{-1} c_{53}^{-3} c_{53}^0 c_{55}^4 + 43\sqrt{210}\,c_{51}^{-1} c_{53}^{-3} c_{53}^{-1} c_{55}^5\bigr)/(c_{00}^0)^{32/3}
\end{aligned}
$$