

$$a_0 = \cos^{-1} \left(\frac{-s_0^2 + s_1^2 + s_2^2}{2 s_1 s_2} \right)$$

$$a_1 = \cos^{-1} \left(\frac{s_0^2 - s_1^2 + s_2^2}{2 s_0 s_2} \right)$$

$$a_2 = \cos^{-1} \left(\frac{s_0^2 + s_1^2 - s_2^2}{2 s_0 s_1} \right)$$