

θ_k	n	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_7	a_8
π	1	1	1							
$\frac{3\pi}{4}, \frac{5\pi}{4}$	2	1	$\sqrt{2}$	1						
$\frac{2\pi}{3}, \pi, \frac{4\pi}{3}$	3	1	2	2	1					
$\frac{5\pi}{8}, \frac{7\pi}{8}, \frac{9\pi}{8}, \frac{11\pi}{8}$	4	1	2.61	3.41	2.61	1				
$\frac{3\pi}{5}, \frac{4\pi}{5}, \pi, \frac{6\pi}{5}, \frac{7\pi}{5}$	5	1	3.24	5.24	5.24	3.24	1			
$\frac{7\pi}{12}, \frac{9\pi}{12}, \frac{11\pi}{12}, \frac{13\pi}{12}, \frac{15\pi}{12}, \frac{17\pi}{12}$	6	1	3.87	7.46	9.14	7.46	3.87	1		
	8	1	5.13	13.14	21.85	25.69	21.85	13.14	5.13	1

The denormalized transfer function for a low-pass Butterworth filter with order n , dc gain K and cutoff-frequency ω_o can be obtained according to the formula

$$H_{LP}(s) = \frac{K}{a_n \left(\frac{s}{\omega_o}\right)^n + a_{n-1} \left(\frac{s}{\omega_o}\right)^{n-1} + \cdots + a_1 \left(\frac{s}{\omega_o}\right) + 1}$$