

### Film Footage Table

You can use this table to estimate the footage of a roll or reel of film. In inches, measure the Inner Core Diameter (d) and Outer Diameter (D) and find the corresponding total feet of film footage.

Outer Diameter (D) - Inches	Inner Core Diameter (d) - Inches							
	1"	2"	3"	4"	5"	6"	7"	8"
1"	0							
2"	42'	0						
3"	111'	69'	0					
4"	208'	166'	97'	0				
5"	332'	291'	222'	125'	0			
6"	485'	443'	374'	277'	152'	0		
7"	665'	623'	554'	457'	332'	180'	0	
8"	873'	831'	762'	665'	540'	388'	208'	
9"	1108'	1067'	997'	900'	776'	623'	443'	
10"	1372'	1330'	1261'	1164'	1039'	887'	707'	
11"	1662'	1621'	1552'	1455'	1330'	1178'	997'	
12"	1981'	1939'	1870'	1773'	1649'	1496'	1316'	
13"	2327'	2286'	2217'	2120'	1995'	1843'	1662'	
14"	2701'	2660'	2591'	2494'	2369'	2217'	2036'	
15"	3103'	3062'	2992'	2895'	2771'	2618'	2438'	
16"	3533'	3491'	3422'	3325'	3200'	3048'	2868'	
17"	3990'	3948'	3879'	3782'	3657'	3505'	3325'	
18"	4475'	4433'	4364'	4267'	4142'	3990'	3810'	
19"	4987'	4946'	4876'	4779'	4655'	4502'	4322'	
20"	5528'	5486'	5417'	5320'	5195'	5043'	4863'	

This calculations are based on the Archimedean Spiral formula. For more information:

<http://www.giangrandi.ch/soft/spiral/spiral.shtml>

<http://www.intmath.com/blog/mathematics/length-of-an-archimedean-spiral-6595>