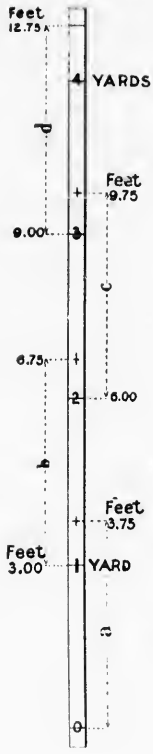
SERIES OF READINGS with fundamental level pointings (2), (3), (4), lowered one yard (3 ft.) and with the same raised ¼ of a yard (¾ ft.); also with fundamental pointing (0) raised 1¼ yards 3¾ ft). (See sketch in margin.)



Distance Instrument to Rod.	Fundamental Level Pointings	Extreme Readings, a, b, c, d, in Yards.	Number of Special Pointings required to secure a complete set of four Standard Readings.
100 yards..	(0)	$a = 0{\cdot}000$, $b = 1{\cdot}000$, $c = 1{\cdot}500$, $d = 2{\cdot}000$	None.
		$a = 1{\cdot}250$, $b = 2{\cdot}250$, $c = 2{\cdot}750$, $d = 3{\cdot}250$	"
	(2)	$b = 1{\cdot}000$, $c = 1{\cdot}500$, $d = 2{\cdot}000$, $a = 0{\cdot}000$	"
		$b = 2{\cdot}250$, $c = 2{\cdot}750$, $d = 3{\cdot}250$, $a = 1{\cdot}250$	"
	(3)	$c = 2{\cdot}000$, $d = 2{\cdot}500$, $b = 1{\cdot}500$, $a = {\cdot}500$	"
		$c = 3{\cdot}250$, $d = 3{\cdot}750$, $b = 2{\cdot}750$, $a = 1{\cdot}750$	"
	(4)	$d = 3{\cdot}500$, $c = 3{\cdot}000$, $b = 2{\cdot}500$, $a = 1{\cdot}500$	"
		$d = 4{\cdot}250$, $c = 3{\cdot}750$, $b = 3{\cdot}250$, $a = 2{\cdot}250$	"
200 yards..	(0)	$a = 0{\cdot}000$, $b = 2{\cdot}000$, $c = 3{\cdot}000$, $d = 1{\cdot}000$	None.
		$a = 1{\cdot}250$, $b = 3{\cdot}250$, $c = 4{\cdot}250$	One extra pointing.
		$c = 3{\cdot}250$, $d = 4{\cdot}250$	
	(2)	$b = 1{\cdot}000$, $c = 2{\cdot}000$, $d = 3{\cdot}000$	
		$b = 2{\cdot}000$ $a = 0{\cdot}000$	One extra pointing.
		$b = 2{\cdot}250$, $a = 0{\cdot}250$, $c = 3{\cdot}250$, $d = 4{\cdot}250$	None.
	(3)	$c = 2{\cdot}000$, $d = 3{\cdot}000$, $b = 1{\cdot}000$	
		$b = 2{\cdot}000$, $a = 0{\cdot}000$	One extra pointing.
		$c = 3{\cdot}250$, $b = 2{\cdot}250$, $a = {\cdot}250$, $d = 4{\cdot}250$	None.
	(4)	$d = 3{\cdot}000$, $c = 2{\cdot}000$, $b = 1{\cdot}000$	
		$b = 2{\cdot}000$, $a = 0{\cdot}000$	One extra pointing.
		$d = 4{\cdot}250$, $c = 3{\cdot}250$, $b = 2{\cdot}250$, $a = 0{\cdot}250$	None.
250 yards..	(0)	$a = 0{\cdot}000$, $b = 2{\cdot}500$, $c = 3{\cdot}750$	
		$c = 3{\cdot}000$, $d = 4{\cdot}250$	One extra pointing.
		$a = 1{\cdot}250$, $b = 3{\cdot}750$	
		$b = 1{\cdot}750$, $c = 3{\cdot}000$, $d = 4{\cdot}250$	"
	(2)	$b = 1{\cdot}000$, $c = 2{\cdot}250$, $d = 3{\cdot}500$	
		$b = 2{\cdot}500$ $a = 0{\cdot}000$	"
		$b = 2{\cdot}250$, $a = 0{\cdot}000$, $c = 3{\cdot}500$	
		$c = 3{\cdot}000$, $d = 4{\cdot}250$	"
	(3)	$c = 2{\cdot}500$, $d = 3{\cdot}250$, $b = 0{\cdot}750$	
		$b = 2{\cdot}500$, $d = 0{\cdot}000$	"
		$c = 3{\cdot}250$, $b = 2{\cdot}000$, $a = 0{\cdot}000$	
		$c = 3{\cdot}000$ $d = 4{\cdot}250$	"
	(4)	$d = 3{\cdot}000$, $c = 1{\cdot}750$, $b = 0{\cdot}500$	
		$b = 2{\cdot}500$, $a = 0{\cdot}000$	"
		$d = 4{\cdot}250$, $c = 3{\cdot}000$, $b = 1{\cdot}750$	
		$b = 2{\cdot}500$, $a = 0{\cdot}000$	"
300 yards..	(0)	$a = 0{\cdot}000$, $b = 3{\cdot}000$	
		$b = 1{\cdot}250$, $c = 2{\cdot}750$, $d = 4{\cdot}250$	One extra pointing.
		$a = 1{\cdot}250$, $b = 4{\cdot}250$	
		$b = 1{\cdot}250$, $c = 2{\cdot}750$, $d = 4{\cdot}250$	"
	(2)	$b = 1{\cdot}000$, $c = 2{\cdot}500$, $d = 4{\cdot}000$	
		$b = 3{\cdot}000$ $a = 0{\cdot}000$	"
		$b = 3{\cdot}250$, $a = 0{\cdot}250$	
		$b = 1{\cdot}250$ $c = 2{\cdot}750$, $d = 4{\cdot}250$	"
	(3)	$c = 2{\cdot}000$, $d = 3{\cdot}500$, $b = 0{\cdot}500$	
		$b = 3{\cdot}000$, $a = 0{\cdot}000$	"
		$c = 3{\cdot}250$, $b = 1{\cdot}750$	
		$b = 3{\cdot}000$, $a = 0{\cdot}000$	Two extra pointings.
		$c = 2{\cdot}750$ $d = 4{\cdot}250$	
	(4)	$d = 3{\cdot}000$, $c = 1{\cdot}500$, $b = 0{\cdot}000$	
		$b = 3{\cdot}000$, $a = 0{\cdot}000$	One extra pointing.
		$d = 4{\cdot}250$, $c = 2{\cdot}750$, $b = 1{\cdot}250$	
		$b = 3{\cdot}000$, $a = 0{\cdot}000$	" "