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Linear actuator

4095	22.5 cm	
3095	18.75 cm	18.25 cm
2048	12.8 cm	
1048	7.25 cm	
700	5.5 cm	
0	2.25 cm	

Length of motor: 32.5 cm

Equation to move between 34.75 cm - 55 cm

$$y = 195x - 6750.6$$

↓

$$13.5 \text{ m} - 21.5 \text{ m}$$

$$4.42 \text{ ft} - 7.05 \text{ ft}$$