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v (m/sec)	11	15	18	20	16	15	20	22	25

Approximate the area
using 8 Trapezoids

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$$\text{height} = \frac{24 - 0}{8} = 3$$

$$A_{\text{trapezoid}} = \frac{h}{2} [b_1 + b_2]$$

$$A \approx \frac{3}{2} [11 + 2(15) + 2(18) + 2(20) + 2(16) + 2(15) + 2(20) + 2(22) + 25]$$

$$A \approx 432$$