

Question Number	Answer	Mark
11	<p>Use of $I = \frac{L}{4\pi d^2}$ (1)</p> <p>$d = 8.1 \times 10^{16} \text{ m}$ (1)</p> <p><u>Example of calculation</u></p> $d = \sqrt{\frac{L}{4\pi I}} = \sqrt{\frac{8.94 \times 10^{27} \text{ W}}{4\pi \times 1.09 \times 10^{-7} \text{ W m}^{-2}}} = 8.08 \times 10^{16} \text{ m}$	2
	Total for question 11	2