Checking Where a Cloudy Film Sends Light

Scoring guide · one credit per question · review written work against each rubric

Checking Where a Cloudy Film Sends Light

Question 1

Choice (2)

The all-transmitted reading is 85% for P and 55% for Q. It includes every transmitted direction in the model.

Question 2

Subtract both listed angular bands from all transmitted light. P gives 85 − 50 − 20 = 15%. Q gives 55 − 50 − 2 = 3%.

Question 3

P meets the requirement with 20% beyond 45°. Q fails with 2%. The two films match within 10°, which does not measure light beyond 45°.

Question 4

At most 15% of incident light reaches this receiver. The 10° to 30° band is inside the 10° to 45° band, which contains 15%. The table does not say how that 15% is distributed within the wider band.