upper plate, at an angle of incidence of about 56° ; a portion of the ray will be reflected, and will move in the direction A E; while another portion of the ray, A B, will pass through the bundle of glass plates onwards to M, according to the laws of reflection and refraction already stated. Now these two rays A E, and B M, possess remarkable properties, similar to one another in most respects, but directly opposed in another. Of these properties we shall endeavour to give a general idea.

If the ray of light R A, after falling upon the vertical glass A, Fig. 19, at an angle of incidence of 56°, be received on a plate of glass, C, placed



at the same angle of incidence, and be then reflected from C to E; in the position intended to be shown in the figure, when the ray R is first reflected in a horizontal plane, R A C, and then in a vertical plane, A C E, the ray C Ebecomes so weak as to be scarcely visible, the

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