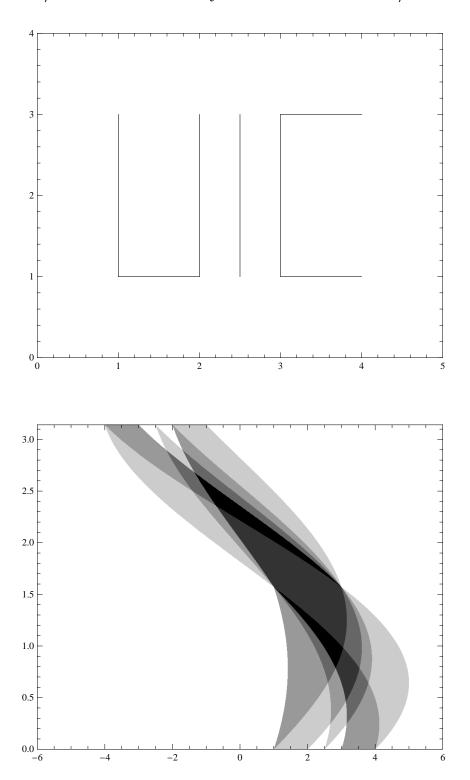
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A collection C of line segments (top) and a density plot (bottom) of the intersection counting function  $n_C$  on the space of lines defined by  $n_C(\ell) = \#(\ell \cap C)$ . The total length of C is 11, so Crofton's theorem says that the area integral of  $n_C$  is 22.