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Corrigendum

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We omitted from this paper an important reference [1]. In [1] the result, which is equivalent to formula (44) in our paper, was first derived. This result establishes the value of an averaged surface area of the set of points on the plane around which the $2D$ Brownian trajectory has wound some n times over the time t. We are indebted to A Comtet for also pointing out to us the paper [2] in which the probability distribution of this surface area is addressed.

References

[1] A Comtet, J Desbois and S Ouvry 1990 *J. Phys. A: Math. Gen.* **23** 3563-72
[2] W Werner 1994 *Prob. Theor. Relat. Fields* **99** 111

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