

Appendix

Table 1. Group Statistics for the Entire Street Network and 400m Buffered Area in London

	Buffer	N	Mean	Std. Deviation	Std. Error Mean
NAINr800m	400m	4154	1.095444429	.2715578280	.0042133650
	Non-400m	28905	1.156162356	.3047245265	.0017923422
NACHr800m	400m	4154	.9282538175	.3900320857	.0060515565
	Non-400m	28905	.9258503210	.4043868984	.0023785407
NAINr2400m	400m	4154	1.136340205	.2306798542	.0035791213
	Non-400m	28905	1.173119043	.2963361420	.0017430030
NACHr2400m	400m	4154	.9108896931	.3888816017	.0060337061
	Non-400m	28905	.9017861766	.4011729482	.0023596368

Table 2. Independent T-test values for the entire street network of London and 400 m-Buffered area from Regent's Canal.

		Levene's Test		T-test for equality of means							
		F	Sig	t	df	Significance		Mean difference	Std. Error difference	95% confidence interval of the difference	
						One-sided P	Two-sided P			Lower	Upper
NAINr800m	Equal variances assumed	85.066	<0.001	-12.167	33,057	<0.001	<0.001	-0.0607	0.0049	-0.0704	-0.0509
	Equal variances not assumed			-13.261	5,764.930	<0.001	<0.001	-0.0607	0.0045	-0.0696	-0.0517
NACHr800m	Equal variances assumed	12.876	<0.001	0.360	33,057	0.360	0.719	0.0024	0.0066	-0.0106	-0.0154
	Equal variances not assumed			0.370	5,516.353	0.356	0.712	0.0024	0.0065	-0.0103	-0.0151
NAINr2400m	Equal variances assumed	401.948	<0.001	-7.672	33,057	<0.001	<0.001	-0.0367	0.0047	-0.0461	-0.0273
	Equal variances not assumed			-9.239	6,305.489	<0.001	<0.001	-0.0367	0.0039	-0.0445	-0.0289
NACHr2400m	Equal variances assumed	9.719	0.002	1.373	33,057	0.085	0.170	0.0091	0.0066	-0.0038	0.0221

	Equal variances not assumed			1.405	5,501.973	0.080	0.160	0.0091	0.0064	-0.00359	0.0218
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Table 3. Group Statistics for the South and North Sides of the Regent's Canal

	Side	N	Mean	Std. Deviation	Std. Error Mean
NAINr800m	North	12352	1.044033928	.2616426387	.0023541812
	South	20707	1.210867918	.3063079986	.0021286279
NACHr800m	North	12352	.8794878112	.4444182749	.0039987409
	South	20707	.9539883345	.3726935307	.0025899612
NAINr2400m	North	12352	1.001281983	.2114420836	.0019024918
	South	20707	1.268243980	.2831885915	.0019679641
NACHr2400m	North	12352	.8574082171	.4381722442	.0039425410
	South	20707	.9300844605	.3721676691	.0025863069

Table 4. Independent T-test values for the south and north Sides of the Regent's Canal.

		Levene's Test		T-test for Equality of Means							
		F	Sig	t	df	Significance		Mean difference	Std. Error difference	95% confidence interval of the difference	
						One-sided p	Two-sided p			Lower	Upper
NAINr800m	Equal variances assumed	373.134	<0.001	-50.528	33,057	0.000	0.000	-1.1668	0.0033	-0.1733	-0.1603
	Equal variances not assumed			-52.565	29,171.274	0.000	0.000	-1.6683	0.0031	-0.1730	-0.1606
NACHr800m	Equal variances assumed	659.347	<0.001	-16.342	33,057	<0.001	<0.001	-0.0745	0.0045	-0.0834	-0.0655
	Equal variances not assumed			-15.637	22,522.947	<0.001	<0.001	-0.0745	0.0047	-0.0838	-0.0651
NAINr2400m	Equal variances assumed		<0.001		33,057	0.000	0.000	-0.2669	0.0029	-0.2727	-0.2611
	Equal variances not assumed				31,446.982	0.000	0.000	-0.2669	0.0027	-0.2723	-0.2615
NACHr2400m	Equal variance		<0.001		33,057	<0.001	<0.001	-0.0726	0.0045	-0.0815	-0.0638

	s assumed										
	Equal variance s not assumed				22,7554.836	<0.001	<0.001	-0.0726	0.0047	-0.0819	-0.0634

Table 5. Paired T-test values for the north and south sides of the Regent’s Canal with Catchment.

Paired differences						Significance			
	Mean	Std. deviation	Std. Error mean	95% Confidence interval of the difference		t	df	One-sided p	Two-sided p
Pair 1 NAINr800 0–400 m north side–south side	0.0343	0.3667	0.0100	0.0147	0.0539	3.432	1,342	<0.001	<0.001
Pair 2 NAINr800 400–800 m north side–south side	0.0158	0.3467	0.0095	-0.0028	0.03450	1.662	1,326	0.048	0.097
Pair 3 NAINr800 800–1,200 m north side–south side	0.0170	0.3778	0.0108	-0.0042	0.0382	1.572	1,218	0.058	0.116

Table 6. Correlations Between Space Syntax Measures and Retail Distribution in Grachtengordel

Correlations							
		Retail Density	Retail Count	NACHr800m	NAINr800m	NACHr2400m	NAINr2400m
Retail Density	Pearson Correlation	1	.493**	.074	-.065	-.015	-.134
	Sigç (2-tailed)		<.001	.160	.215	.774	.011
	N	364	364	364	364	364	364
Retail Count	Pearson Correlation	.493**	1	.121*	.078	.033	-.050
	Sig. (2-tailed)	<.001		.021	.140	.534	.338
	N	364		364	364	364	364

Table 7. Correlations between space syntax measures and retail distribution in Regents Canalside.

Correlations							
		Retail density	Retail count	NACHr800 m	NAINr800 m	NACHr2400 m	NAINr2400 m

Retail density	Pearson correlation	1	0.823**	0.032	0.198**	0.059	0.093
	Sig. (2-tailed)		<0.001	0.588	<0.001	0.317	0.112
	N	292	292	292	292	292	292
Retail count	Pearson Correlation	0.823**	1	0.073	0.212**	0.117*	0.141*
	Sig. (2-tailed)	<0.001		0.210	<0.001	0.045	0.016
	N	292	292	292	292	292	292

Notes: *. Correlation is significant at the 0.05 level (2-tailed). (This means the value will be considered significant if it is between 0.010 to 0,050; **. Correlation is significant at the 0.01 level (2-tailed). (This means the value will be considered significant if it is between 0.001 to 0,010).

Table 8. A Comparison of Streets Running Diagonal and Parallel to Canals in Grachtengordel

Paired Samples Statistics					
		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Diagonal St. Retail Density	.10728	144	.117020	.009752
	Parallel St. Retail Density	.06998	144	.111039	.009253
Pair 2	Diagonal St. HIndex	.41413	144	.363307	.030276
	Parallel St. HIndex	.52541	144	.369087	.030757

Table 9. Paired T-test Values for Streets Running Diagonal and Parallel to Canals in Grachtengordel

	Paired Differences					Significance			
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference		t	df	One-Sided p	Two-Sided p
Pair 1 Diagonal St. Retail Density – Parallel St. Retail Density	.0372	.1577	.0131	.0113	.0632	2.838	143	.003	.005
Pair 2 Diagonal St. HIndex – Parallel St. HIndex	-.1112	.5207	.0433	-.1970	-.0255	-2.564	143	.006	.011