

Autobound EDGE - Compactness Report

Plan Name: State House:Hickory

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Compactness measure: Polsby-Popper

District	District Area (SQM)	Perimeter (Miles)	Area of Circle with Same Perimeter	Perimeter of Circle with Same Area	Compactness Value
1	26	28	62	18	0.42
2	19	24	48	16	0.41
3	24	36	101	17	0.23
4	15	29	68	14	0.23
5	16	37	108	14	0.15
6	16	33	87	14	0.19
7	19	32	83	15	0.23
8	22	36	102	16	0.21
9	22	29	65	16	0.33
10	56	46	172	27	0.33
11	18	26	53	15	0.34
12	16	21	35	14	0.46
13	19	27	58	16	0.33
14	22	21	37	17	0.59
15	16	28	63	14	0.26
16	24	27	59	18	0.42
17	23	27	58	17	0.40
18	34	33	85	21	0.39
19	38	41	137	22	0.28
20	51	40	125	25	0.41
21	52	39	122	25	0.42
22	41	41	132	23	0.31
23	97	60	285	35	0.34
24	30	25	51	19	0.58
25	28	40	127	19	0.22
26	34	36	103	21	0.33
27	46	33	88	24	0.53
28	171	77	477	46	0.36
29	112	78	478	38	0.23
30	364	115	1,043	68	0.35
31	393	112	1,007	70	0.39
32	44	31	75	24	0.59
33	151	66	346	44	0.44
34	664	117	1,082	91	0.61
35	1,129	152	1,843	119	0.61
36	864	129	1,315	104	0.66
37	523	116	1,068	81	0.49
38	2,765	245	4,761	186	0.58
39	769	129	1,334	98	0.58
40	101	58	264	36	0.38
41	33	38	113	20	0.29
42	388	147	1,709	70	0.23

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43	815	190	2,877	101	0.28
44	255	100	795	57	0.32
45	969	213	3,620	110	0.27
46	163	88	615	45	0.26
47	338	132	1,393	65	0.24
48	285	119	1,122	60	0.25
49	106	71	397	36	0.27
50	405	106	901	71	0.45
51	138	69	378	42	0.36
52	83	50	202	32	0.41
53	38	44	152	22	0.25
54	70	62	307	30	0.23
55	42	30	72	23	0.58
56	32	29	68	20	0.48
57	28	30	70	19	0.39
58	25	48	184	18	0.14
59	40	38	113	23	0.36
60	33	34	91	20	0.36
61	27	38	115	18	0.23
62	114	61	295	38	0.39
63	229	96	739	54	0.31
64	296	86	590	61	0.50
65	808	141	1,581	101	0.51
66	209	79	499	51	0.42
67	452	119	1,118	75	0.40
68	149	71	396	43	0.38
69	158	70	390	45	0.41
70	40	43	150	23	0.27
71	683	131	1,375	93	0.50
72	175	77	472	47	0.37
73	443	111	982	75	0.45
74	49	32	81	25	0.60
75	291	88	611	60	0.48
76	425	102	824	73	0.52
77	202	82	531	50	0.38
78	832	160	2,026	102	0.41
79	250	92	667	56	0.38
80	63	50	201	28	0.31
81	77	48	186	31	0.42
82	17	32	81	15	0.21
83	27	36	105	19	0.26
84	46	39	118	24	0.39
85	92	56	247	34	0.37
86	80	51	204	32	0.39
87	99	55	242	35	0.41

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88	2,200	206	3,362	166	0.65
89	429	113	1,018	73	0.42
90	303	106	899	62	0.34
91	833	145	1,666	102	0.50
92	761	139	1,533	98	0.50
93	1,179	210	3,505	122	0.34
94	59	52	214	27	0.28
95	624	107	916	89	0.68
96	481	102	822	78	0.59
97	885	220	3,867	105	0.23
98	4,118	305	7,422	227	0.55
99	3,825	344	9,395	219	0.41
100	1,719	191	2,917	147	0.59
101	1,941	251	4,996	156	0.39
102	3,417	291	6,755	207	0.51
103	2,883	250	4,975	190	0.58
104	2,436	362	10,413	175	0.23
105	2,921	300	7,146	192	0.41
106	7,780	397	12,550	313	0.62
107	4,923	444	15,720	249	0.31
108	9,287	645	33,135	342	0.28
109	10,075	541	23,305	356	0.43
110	14,139	680	36,767	422	0.38

Most Compact: 0.68 For District: 95

Least Compact: 0.14 For District: 58

Compactness measure: Schwartzberg

District	District Area (SQM)	Perimeter (Miles)	Area of Circle with Same Perimeter	Perimeter of Circle with Same Area	Compactness Value
1	26	28	62	18	0.65
2	19	24	48	16	0.64
3	24	36	101	17	0.48
4	15	29	68	14	0.48
5	16	37	108	14	0.39
6	16	33	87	14	0.43
7	19	32	83	15	0.48
8	22	36	102	16	0.46
9	22	29	65	16	0.57
10	56	46	172	27	0.57
11	18	26	53	15	0.58
12	16	21	35	14	0.67
13	19	27	58	16	0.58
14	22	21	37	17	0.77
15	16	28	63	14	0.51
16	24	27	59	18	0.65
17	23	27	58	17	0.63

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18	34	33	85	21	0.63
19	38	41	137	22	0.53
20	51	40	125	25	0.64
21	52	39	122	25	0.65
22	41	41	132	23	0.56
23	97	60	285	35	0.58
24	30	25	51	19	0.76
25	28	40	127	19	0.47
26	34	36	103	21	0.57
27	46	33	88	24	0.73
28	171	77	477	46	0.60
29	112	78	478	38	0.48
30	364	115	1,043	68	0.59
31	393	112	1,007	70	0.62
32	44	31	75	24	0.77
33	151	66	346	44	0.66
34	664	117	1,082	91	0.78
35	1,129	152	1,843	119	0.78
36	864	129	1,315	104	0.81
37	523	116	1,068	81	0.70
38	2,765	245	4,761	186	0.76
39	769	129	1,334	98	0.76
40	101	58	264	36	0.62
41	33	38	113	20	0.54
42	388	147	1,709	70	0.48
43	815	190	2,877	101	0.53
44	255	100	795	57	0.57
45	969	213	3,620	110	0.52
46	163	88	615	45	0.51
47	338	132	1,393	65	0.49
48	285	119	1,122	60	0.50
49	106	71	397	36	0.52
50	405	106	901	71	0.67
51	138	69	378	42	0.60
52	83	50	202	32	0.64
53	38	44	152	22	0.50
54	70	62	307	30	0.48
55	42	30	72	23	0.76
56	32	29	68	20	0.69
57	28	30	70	19	0.63
58	25	48	184	18	0.37
59	40	38	113	23	0.60
60	33	34	91	20	0.60
61	27	38	115	18	0.48
62	114	61	295	38	0.62

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63	229	96	739	54	0.56
64	296	86	590	61	0.71
65	808	141	1,581	101	0.71
66	209	79	499	51	0.65
67	452	119	1,118	75	0.64
68	149	71	396	43	0.61
69	158	70	390	45	0.64
70	40	43	150	23	0.52
71	683	131	1,375	93	0.70
72	175	77	472	47	0.61
73	443	111	982	75	0.67
74	49	32	81	25	0.78
75	291	88	611	60	0.69
76	425	102	824	73	0.72
77	202	82	531	50	0.62
78	832	160	2,026	102	0.64
79	250	92	667	56	0.61
80	63	50	201	28	0.56
81	77	48	186	31	0.64
82	17	32	81	15	0.46
83	27	36	105	19	0.51
84	46	39	118	24	0.63
85	92	56	247	34	0.61
86	80	51	204	32	0.63
87	99	55	242	35	0.64
88	2,200	206	3,362	166	0.81
89	429	113	1,018	73	0.65
90	303	106	899	62	0.58
91	833	145	1,666	102	0.71
92	761	139	1,533	98	0.70
93	1,179	210	3,505	122	0.58
94	59	52	214	27	0.53
95	624	107	916	89	0.82
96	481	102	822	78	0.76
97	885	220	3,867	105	0.48
98	4,118	305	7,422	227	0.74
99	3,825	344	9,395	219	0.64
100	1,719	191	2,917	147	0.77
101	1,941	251	4,996	156	0.62
102	3,417	291	6,755	207	0.71
103	2,883	250	4,975	190	0.76
104	2,436	362	10,413	175	0.48
105	2,921	300	7,146	192	0.64
106	7,780	397	12,550	313	0.79
107	4,923	444	15,720	249	0.56

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108	9,287	645	33,135	342	0.53
109	10,075	541	23,305	356	0.66
110	14,139	680	36,767	422	0.62

Most Compact: 0.82 For District: 95

Least Compact: 0.37 For District: 58

Compactness measure: Reock Score

District	District Area (SQM)	Perimeter (Miles)	Area of Circle with Same Perimeter	Perimeter of Circle with Same Area	Compactness Value
1	26	28	62	18	0.40
2	19	24	48	16	0.52
3	24	36	101	17	0.46
4	15	29	68	14	0.40
5	16	37	108	14	0.13
6	16	33	87	14	0.18
7	19	32	83	15	0.26
8	22	36	102	16	0.17
9	22	29	65	16	0.38
10	56	46	172	27	0.21
11	18	26	53	15	0.30
12	16	21	35	14	0.29
13	19	27	58	16	0.27
14	22	21	37	17	0.48
15	16	28	63	14	0.42
16	24	27	59	18	0.38
17	23	27	58	17	0.28
18	34	33	85	21	0.37
19	38	41	137	22	0.38
20	51	40	125	25	0.44
21	52	39	122	25	0.37
22	41	41	132	23	0.39
23	97	60	285	35	0.45
24	30	25	51	19	0.52
25	28	40	127	19	0.24
26	34	36	103	21	0.37
27	46	33	88	24	0.42
28	171	77	477	46	0.36
29	112	78	478	38	0.21
30	364	115	1,043	68	0.40
31	393	112	1,007	70	0.45
32	44	31	75	24	0.49
33	151	66	346	44	0.40
34	664	117	1,082	91	0.55
35	1,129	152	1,843	119	0.49
36	864	129	1,315	104	0.49
37	523	116	1,068	81	0.40

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38	2,765	245	4,761	186	0.47
39	769	129	1,334	98	0.50
40	101	58	264	36	0.52
41	33	38	113	20	0.50
42	388	147	1,709	70	0.43
43	815	190	2,877	101	0.25
44	255	100	795	57	0.32
45	969	213	3,620	110	0.30
46	163	88	615	45	0.31
47	338	132	1,393	65	0.28
48	285	119	1,122	60	0.37
49	106	71	397	36	0.39
50	405	106	901	71	0.57
51	138	69	378	42	0.45
52	83	50	202	32	0.55
53	38	44	152	22	0.34
54	70	62	307	30	0.30
55	42	30	72	23	0.50
56	32	29	68	20	0.49
57	28	30	70	19	0.40
58	25	48	184	18	0.29
59	40	38	113	23	0.48
60	33	34	91	20	0.41
61	27	38	115	18	0.40
62	114	61	295	38	0.46
63	229	96	739	54	0.31
64	296	86	590	61	0.40
65	808	141	1,581	101	0.54
66	209	79	499	51	0.37
67	452	119	1,118	75	0.52
68	149	71	396	43	0.42
69	158	70	390	45	0.57
70	40	43	150	23	0.48
71	683	131	1,375	93	0.58
72	175	77	472	47	0.51
73	443	111	982	75	0.51
74	49	32	81	25	0.61
75	291	88	611	60	0.44
76	425	102	824	73	0.59
77	202	82	531	50	0.50
78	832	160	2,026	102	0.50
79	250	92	667	56	0.35
80	63	50	201	28	0.49
81	77	48	186	31	0.39
82	17	32	81	15	0.48

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83	27	36	105	19	0.43
84	46	39	118	24	0.40
85	92	56	247	34	0.37
86	80	51	204	32	0.48
87	99	55	242	35	0.57
88	2,200	206	3,362	166	0.56
89	429	113	1,018	73	0.50
90	303	106	899	62	0.36
91	833	145	1,666	102	0.52
92	761	139	1,533	98	0.44
93	1,179	210	3,505	122	0.39
94	59	52	214	27	0.43
95	624	107	916	89	0.60
96	481	102	822	78	0.54
97	885	220	3,867	105	0.51
98	4,118	305	7,422	227	0.72
99	3,825	344	9,395	219	0.29
100	1,719	191	2,917	147	0.54
101	1,941	251	4,996	156	0.34
102	3,417	291	6,755	207	0.49
103	2,883	250	4,975	190	0.55
104	2,436	362	10,413	175	0.31
105	2,921	300	7,146	192	0.50
106	7,780	397	12,550	313	0.46
107	4,923	444	15,720	249	0.43
108	9,287	645	33,135	342	0.34
109	10,075	541	23,305	356	0.58
110	14,139	680	36,767	422	0.57

Most Compact: 0.72 For District: 98

Least Compact: 0.13 For District: 5

Compactness measure: Length-Width

District	District Area (SQM)	Perimeter (Miles)	Area of Circle with Same Perimeter	Perimeter of Circle with Same Area	Compactness Value
1	26	28	62	18	0.96
2	19	24	48	16	1.24
3	24	36	101	17	1.17
4	15	29	68	14	1.59
5	16	37	108	14	0.33
6	16	33	87	14	0.41
7	19	32	83	15	0.58
8	22	36	102	16	0.40
9	22	29	65	16	1.85
10	56	46	172	27	2.09
11	18	26	53	15	0.92
12	16	21	35	14	0.68

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13	19	27	58	16	0.47
14	22	21	37	17	0.74
15	16	28	63	14	1.06
16	24	27	59	18	2.06
17	23	27	58	17	4.09
18	34	33	85	21	3.19
19	38	41	137	22	2.06
20	51	40	125	25	2.40
21	52	39	122	25	2.72
22	41	41	132	23	2.21
23	97	60	285	35	1.18
24	30	25	51	19	1.33
25	28	40	127	19	2.20
26	34	36	103	21	1.03
27	46	33	88	24	0.68
28	171	77	477	46	0.76
29	112	78	478	38	0.67
30	364	115	1,043	68	2.28
31	393	112	1,007	70	1.53
32	44	31	75	24	1.53
33	151	66	346	44	1.79
34	664	117	1,082	91	1.61
35	1,129	152	1,843	119	2.57
36	864	129	1,315	104	2.61
37	523	116	1,068	81	2.16
38	2,765	245	4,761	186	1.07
39	769	129	1,334	98	1.46
40	101	58	264	36	1.36
41	33	38	113	20	1.13
42	388	147	1,709	70	1.06
43	815	190	2,877	101	2.71
44	255	100	795	57	3.04
45	969	213	3,620	110	3.29
46	163	88	615	45	3.13
47	338	132	1,393	65	2.71
48	285	119	1,122	60	1.87
49	106	71	397	36	1.99
50	405	106	901	71	1.34
51	138	69	378	42	0.90
52	83	50	202	32	1.49
53	38	44	152	22	1.93
54	70	62	307	30	0.69
55	42	30	72	23	0.96
56	32	29	68	20	1.03
57	28	30	70	19	0.89

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58	25	48	184	18	0.80
59	40	38	113	23	2.19
60	33	34	91	20	0.97
61	27	38	115	18	1.67
62	114	61	295	38	1.15
63	229	96	739	54	0.98
64	296	86	590	61	0.71
65	808	141	1,581	101	1.09
66	209	79	499	51	2.60
67	452	119	1,118	75	1.07
68	149	71	396	43	0.80
69	158	70	390	45	1.01
70	40	43	150	23	1.14
71	683	131	1,375	93	1.43
72	175	77	472	47	0.91
73	443	111	982	75	1.30
74	49	32	81	25	0.93
75	291	88	611	60	0.98
76	425	102	824	73	1.36
77	202	82	531	50	1.50
78	832	160	2,026	102	0.97
79	250	92	667	56	1.82
80	63	50	201	28	2.17
81	77	48	186	31	1.63
82	17	32	81	15	1.35
83	27	36	105	19	1.09
84	46	39	118	24	0.89
85	92	56	247	34	1.47
86	80	51	204	32	1.00
87	99	55	242	35	1.22
88	2,200	206	3,362	166	1.59
89	429	113	1,018	73	1.06
90	303	106	899	62	1.37
91	833	145	1,666	102	1.89
92	761	139	1,533	98	1.10
93	1,179	210	3,505	122	1.92
94	59	52	214	27	1.76
95	624	107	916	89	1.01
96	481	102	822	78	1.10
97	885	220	3,867	105	1.21
98	4,118	305	7,422	227	1.56
99	3,825	344	9,395	219	3.54
100	1,719	191	2,917	147	1.37
101	1,941	251	4,996	156	0.73
102	3,417	291	6,755	207	0.90

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103	2,883	250	4,975	190	1.39
104	2,436	362	10,413	175	1.80
105	2,921	300	7,146	192	1.39
106	7,780	397	12,550	313	1.85
107	4,923	444	15,720	249	1.71
108	9,287	645	33,135	342	1.58
109	10,075	541	23,305	356	1.35
110	14,139	680	36,767	422	1.30

Most Compact: 4.09 For District: 17

Least Compact: 0.33 For District: 5

Compactness measure: Convex Hull

District	District Area (SQM)	Perimeter (Miles)	Area of Circle with Same Perimeter	Perimeter of Circle with Same Area	Compactness Value
1	26	28	62	18	0.79
2	19	24	48	16	0.75
3	24	36	101	17	0.70
4	15	29	68	14	0.54
5	16	37	108	14	0.60
6	16	33	87	14	0.60
7	19	32	83	15	0.62
8	22	36	102	16	0.70
9	22	29	65	16	0.67
10	56	46	172	27	0.76
11	18	26	53	15	0.67
12	16	21	35	14	0.80
13	19	27	58	16	0.78
14	22	21	37	17	0.92
15	16	28	63	14	0.67
16	24	27	59	18	0.79
17	23	27	58	17	0.90
18	34	33	85	21	0.86
19	38	41	137	22	0.67
20	51	40	125	25	0.80
21	52	39	122	25	0.83
22	41	41	132	23	0.76
23	97	60	285	35	0.68
24	30	25	51	19	0.91
25	28	40	127	19	0.60
26	34	36	103	21	0.74
27	46	33	88	24	0.85
28	171	77	477	46	0.74
29	112	78	478	38	0.64
30	364	115	1,043	68	0.75
31	393	112	1,007	70	0.77
32	44	31	75	24	0.91

Autobound EDGE - Compactness Report

Plan Name: State House:Hickory

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33	151	66	346	44	0.83
34	664	117	1,082	91	0.93
35	1,129	152	1,843	119	0.93
36	864	129	1,315	104	0.98
37	523	116	1,068	81	0.85
38	2,765	245	4,761	186	0.91
39	769	129	1,334	98	0.89
40	101	58	264	36	0.84
41	33	38	113	20	0.79
42	388	147	1,709	70	0.62
43	815	190	2,877	101	0.70
44	255	100	795	57	0.68
45	969	213	3,620	110	0.76
46	163	88	615	45	0.73
47	338	132	1,393	65	0.70
48	285	119	1,122	60	0.59
49	106	71	397	36	0.65
50	405	106	901	71	0.83
51	138	69	378	42	0.78
52	83	50	202	32	0.83
53	38	44	152	22	0.69
54	70	62	307	30	0.61
55	42	30	72	23	0.92
56	32	29	68	20	0.85
57	28	30	70	19	0.74
58	25	48	184	18	0.47
59	40	38	113	23	0.77
60	33	34	91	20	0.77
61	27	38	115	18	0.72
62	114	61	295	38	0.73
63	229	96	739	54	0.71
64	296	86	590	61	0.88
65	808	141	1,581	101	0.81
66	209	79	499	51	0.84
67	452	119	1,118	75	0.79
68	149	71	396	43	0.82
69	158	70	390	45	0.89
70	40	43	150	23	0.79
71	683	131	1,375	93	0.83
72	175	77	472	47	0.84
73	443	111	982	75	0.86
74	49	32	81	25	0.96
75	291	88	611	60	0.87
76	425	102	824	73	0.85
77	202	82	531	50	0.80

Autobound EDGE - Compactness Report

Plan Name: State House:Hickory

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78	832	160	2,026	102	0.79
79	250	92	667	56	0.77
80	63	50	201	28	0.80
81	77	48	186	31	0.83
82	17	32	81	15	0.66
83	27	36	105	19	0.63
84	46	39	118	24	0.79
85	92	56	247	34	0.69
86	80	51	204	32	0.86
87	99	55	242	35	0.79
88	2,200	206	3,362	166	0.93
89	429	113	1,018	73	0.75
90	303	106	899	62	0.70
91	833	145	1,666	102	0.82
92	761	139	1,533	98	0.83
93	1,179	210	3,505	122	0.78
94	59	52	214	27	0.73
95	624	107	916	89	0.95
96	481	102	822	78	0.86
97	885	220	3,867	105	0.61
98	4,118	305	7,422	227	0.91
99	3,825	344	9,395	219	0.81
100	1,719	191	2,917	147	0.86
101	1,941	251	4,996	156	0.73
102	3,417	291	6,755	207	0.87
103	2,883	250	4,975	190	0.87
104	2,436	362	10,413	175	0.56
105	2,921	300	7,146	192	0.74
106	7,780	397	12,550	313	0.93
107	4,923	444	15,720	249	0.68
108	9,287	645	33,135	342	0.67
109	10,075	541	23,305	356	0.79
110	14,139	680	36,767	422	0.78

Most Compact: 0.98 For District: 36

Least Compact: 0.47 For District: 58