

# Autobound EDGE - Compactness Report

Plan Name: State Senate:050924\_SD\_COL\_v4

[For more information on compactness calculations Click Here](#)



## 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	64	67	359	28	0.18
2	55	40	129	26	0.43
3	77	47	174	31	0.44
4	124	58	270	39	0.46
5	205	63	315	51	0.65
6	71	44	153	30	0.47
7	111	64	324	37	0.34
8	56	43	146	26	0.38
9	88	52	212	33	0.42
10	68	41	132	29	0.51
11	66	60	288	29	0.23
12	307	97	752	62	0.41
13	132	65	333	41	0.39
14	966	165	2,158	110	0.45
15	406	122	1,186	71	0.34
16	1,797	223	3,954	150	0.45
17	3,507	419	13,972	210	0.25
18	1,589	244	4,740	141	0.34
19	543	108	924	83	0.59
20	1,890	318	8,068	154	0.23
21	887	134	1,426	106	0.62
22	874	133	1,416	105	0.62
23	309	92	677	62	0.46
24	547	133	1,403	83	0.39
25	5,020	353	9,894	251	0.51
26	1,701	269	5,763	146	0.30
27	288	84	555	60	0.52
28	1,119	169	2,266	119	0.49
29	77	41	133	31	0.58
30	360	112	994	67	0.36
31	2,499	227	4,100	177	0.61
32	5,788	347	9,573	270	0.60
33	2,924	333	8,827	192	0.33
34	4,334	354	9,974	233	0.43
35	767	137	1,502	98	0.51
36	14,061	615	30,128	420	0.47
37	9,836	613	29,891	352	0.33
38	33,196	943	70,771	646	0.47

**Most Compact: 0.65 For District: 5**

**Least Compact: 0.18 For District: 1**

## Compactness measure: Schwartzberg

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District	District Area (SQM)	Perimeter (Miles)	Area of Circle with Same Perimeter	Perimeter of Circle with Same Area	Compactness Value
1	64	67	359	28	0.42
2	55	40	129	26	0.65
3	77	47	174	31	0.67
4	124	58	270	39	0.68
5	205	63	315	51	0.81
6	71	44	153	30	0.68
7	111	64	324	37	0.59
8	56	43	146	26	0.62
9	88	52	212	33	0.65
10	68	41	132	29	0.72
11	66	60	288	29	0.48
12	307	97	752	62	0.64
13	132	65	333	41	0.63
14	966	165	2,158	110	0.67
15	406	122	1,186	71	0.59
16	1,797	223	3,954	150	0.67
17	3,507	419	13,972	210	0.50
18	1,589	244	4,740	141	0.58
19	543	108	924	83	0.77
20	1,890	318	8,068	154	0.48
21	887	134	1,426	106	0.79
22	874	133	1,416	105	0.79
23	309	92	677	62	0.68
24	547	133	1,403	83	0.62
25	5,020	353	9,894	251	0.71
26	1,701	269	5,763	146	0.54
27	288	84	555	60	0.72
28	1,119	169	2,266	119	0.70
29	77	41	133	31	0.76
30	360	112	994	67	0.60
31	2,499	227	4,100	177	0.78
32	5,788	347	9,573	270	0.78
33	2,924	333	8,827	192	0.58
34	4,334	354	9,974	233	0.66
35	767	137	1,502	98	0.71
36	14,061	615	30,128	420	0.68
37	9,836	613	29,891	352	0.57
38	33,196	943	70,771	646	0.68

**Most Compact: 0.81 For District: 5**

**Least Compact: 0.42 For District: 1**

## Compactness measure: Reock Score

District	District Area (SQM)	Perimeter (Miles)	Area of Circle with Same Perimeter	Perimeter of Circle with Same Area	Compactness Value
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1	64	67	359	28	0.20
2	55	40	129	26	0.41
3	77	47	174	31	0.44
4	124	58	270	39	0.46
5	205	63	315	51	0.55
6	71	44	153	30	0.38
7	111	64	324	37	0.40
8	56	43	146	26	0.37
9	88	52	212	33	0.39
10	68	41	132	29	0.41
11	66	60	288	29	0.25
12	307	97	752	62	0.41
13	132	65	333	41	0.34
14	966	165	2,158	110	0.35
15	406	122	1,186	71	0.41
16	1,797	223	3,954	150	0.32
17	3,507	419	13,972	210	0.22
18	1,589	244	4,740	141	0.41
19	543	108	924	83	0.57
20	1,890	318	8,068	154	0.30
21	887	134	1,426	106	0.49
22	874	133	1,416	105	0.51
23	309	92	677	62	0.46
24	547	133	1,403	83	0.41
25	5,020	353	9,894	251	0.53
26	1,701	269	5,763	146	0.39
27	288	84	555	60	0.56
28	1,119	169	2,266	119	0.52
29	77	41	133	31	0.57
30	360	112	994	67	0.37
31	2,499	227	4,100	177	0.60
32	5,788	347	9,573	270	0.43
33	2,924	333	8,827	192	0.29
34	4,334	354	9,974	233	0.50
35	767	137	1,502	98	0.58
36	14,061	615	30,128	420	0.49
37	9,836	613	29,891	352	0.38
38	33,196	943	70,771	646	0.51

**Most Compact: 0.6 For District: 31**

**Least Compact: 0.2 For District: 1**

## 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	64	67	359	28	1.57
2	55	40	129	26	2.79

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3	77	47	174	31	2.33
4	124	58	270	39	0.75
5	205	63	315	51	1.00
6	71	44	153	30	2.84
7	111	64	324	37	1.50
8	56	43	146	26	2.16
9	88	52	212	33	1.37
10	68	41	132	29	0.60
11	66	60	288	29	0.62
12	307	97	752	62	1.23
13	132	65	333	41	0.85
14	966	165	2,158	110	2.90
15	406	122	1,186	71	1.65
16	1,797	223	3,954	150	4.04
17	3,507	419	13,972	210	3.60
18	1,589	244	4,740	141	1.00
19	543	108	924	83	1.65
20	1,890	318	8,068	154	1.74
21	887	134	1,426	106	2.34
22	874	133	1,416	105	1.55
23	309	92	677	62	0.99
24	547	133	1,403	83	2.01
25	5,020	353	9,894	251	1.05
26	1,701	269	5,763	146	1.69
27	288	84	555	60	1.35
28	1,119	169	2,266	119	1.71
29	77	41	133	31	2.01
30	360	112	994	67	2.05
31	2,499	227	4,100	177	1.88
32	5,788	347	9,573	270	0.80
33	2,924	333	8,827	192	0.87
34	4,334	354	9,974	233	1.55
35	767	137	1,502	98	1.27
36	14,061	615	30,128	420	1.87
37	9,836	613	29,891	352	1.63
38	33,196	943	70,771	646	1.87

**Most Compact: 4.04 For District: 16**

**Least Compact: 0.6 For District: 10**

## 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	64	67	359	28	0.63
2	55	40	129	26	0.85
3	77	47	174	31	0.80
4	124	58	270	39	0.90

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5	205	63	315	51	0.94
6	71	44	153	30	0.84
7	111	64	324	37	0.58
8	56	43	146	26	0.82
9	88	52	212	33	0.77
10	68	41	132	29	0.93
11	66	60	288	29	0.68
12	307	97	752	62	0.84
13	132	65	333	41	0.75
14	966	165	2,158	110	0.91
15	406	122	1,186	71	0.77
16	1,797	223	3,954	150	0.94
17	3,507	419	13,972	210	0.64
18	1,589	244	4,740	141	0.71
19	543	108	924	83	0.86
20	1,890	318	8,068	154	0.62
21	887	134	1,426	106	0.96
22	874	133	1,416	105	0.89
23	309	92	677	62	0.86
24	547	133	1,403	83	0.81
25	5,020	353	9,894	251	0.87
26	1,701	269	5,763	146	0.70
27	288	84	555	60	0.95
28	1,119	169	2,266	119	0.83
29	77	41	133	31	0.93
30	360	112	994	67	0.74
31	2,499	227	4,100	177	0.90
32	5,788	347	9,573	270	0.91
33	2,924	333	8,827	192	0.70
34	4,334	354	9,974	233	0.78
35	767	137	1,502	98	0.80
36	14,061	615	30,128	420	0.79
37	9,836	613	29,891	352	0.76
38	33,196	943	70,771	646	0.87

**Most Compact: 0.96 For District: 21**

**Least Compact: 0.58 For District: 7**