

Autobound EDGE - Compactness Report

Plan Name: State Senate:052024 SD RAS V1

[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	70	56	252	30	0.28
2	60	42	139	28	0.44
3	53	48	184	26	0.29
4	253	81	522	56	0.48
5	114	54	232	38	0.49
6	79	43	148	32	0.53
7	111	68	364	37	0.30
8	52	33	89	25	0.58
9	90	54	233	34	0.39
10	60	37	112	27	0.53
11	69	48	183	29	0.38
12	307	88	611	62	0.50
13	131	65	340	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	504	121	1,170	80	0.43
24	333	86	584	65	0.57
25	5,020	353	9,893	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: 0.62 For District: 22

Least Compact: 0.23 For District: 20

Compactness measure: Schwartzberg

Autobound EDGE - Compactness Report



Plan Name: State Senate:052024 SD RAS V1

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

District	District Area (SQM)	Perimeter (Miles)	Area of Circle with Same Perimeter	Perimeter of Circle with Same Area	Compactness Value
1	70	56	252	30	0.53
2	60	42	139	28	0.66
3	53	48	184	26	0.54
4	253	81	522	56	0.70
5	114	54	232	38	0.70
6	79	43	148	32	0.73
7	111	68	364	37	0.55
8	52	33	89	25	0.76
9	90	54	233	34	0.62
10	60	37	112	27	0.73
11	69	48	183	29	0.61
12	307	88	611	62	0.71
13	131	65	340	41	0.62
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	504	121	1,170	80	0.66
24	333	86	584	65	0.75
25	5,020	353	9,893	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: 0.79 For District: 22

Least Compact: 0.48 For District: 20

Compactness measure: Reock Score

District	District Area (SQM)	Perimeter (Miles)	Area of Circle with Same Perimeter	Perimeter of Circle with Same Area	Compactness Value
----------	---------------------	-------------------	------------------------------------	------------------------------------	-------------------

Autobound EDGE - Compactness Report

Plan Name: State Senate:052024 SD RAS V1

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



1	70	56	252	30	0.28
2	60	42	139	28	0.53
3	53	48	184	26	0.36
4	253	81	522	56	0.47
5	114	54	232	38	0.33
6	79	43	148	32	0.49
7	111	68	364	37	0.32
8	52	33	89	25	0.62
9	90	54	233	34	0.50
10	60	37	112	27	0.48
11	69	48	183	29	0.41
12	307	88	611	62	0.43
13	131	65	340	41	0.48
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	504	121	1,170	80	0.34
24	333	86	584	65	0.48
25	5,020	353	9,893	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: 0.62 For District: 8

Least Compact: 0.22 For District: 17

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	70	56	252	30	1.47
2	60	42	139	28	1.20

Autobound EDGE - Compactness Report

Plan Name: State Senate:052024 SD RAS V1

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



3	53	48	184	26	2.39
4	253	81	522	56	1.77
5	114	54	232	38	0.45
6	79	43	148	32	0.76
7	111	68	364	37	0.83
8	52	33	89	25	1.62
9	90	54	233	34	1.10
10	60	37	112	27	2.58
11	69	48	183	29	1.14
12	307	88	611	62	1.19
13	131	65	340	41	0.93
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	504	121	1,170	80	0.87
24	333	86	584	65	1.01
25	5,020	353	9,893	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: 0.45 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	70	56	252	30	0.65
2	60	42	139	28	0.83
3	53	48	184	26	0.70
4	253	81	522	56	0.83

Autobound EDGE - Compactness Report

Plan Name: State Senate:052024 SD RAS V1

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



5	114	54	232	38	0.96
6	79	43	148	32	0.93
7	111	68	364	37	0.71
8	52	33	89	25	0.94
9	90	54	233	34	0.77
10	60	37	112	27	0.93
11	69	48	183	29	0.78
12	307	88	611	62	0.86
13	131	65	340	41	0.78
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	504	121	1,170	80	0.75
24	333	86	584	65	0.85
25	5,020	353	9,893	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: 5

Least Compact: 0.62 For District: 20