

# Autobound EDGE - Compactness Report

Plan Name: State Senate:062424\_SD\_COL\_V1 Crane A1

[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	62	50	200	28	0.31
2	60	40	126	27	0.47
3	65	39	121	29	0.54
4	253	83	550	56	0.46
5	86	48	185	33	0.47
6	50	36	102	25	0.49
7	115	56	249	38	0.46
8	109	52	212	37	0.51
9	97	52	214	35	0.45
10	58	33	88	27	0.66
11	57	39	119	27	0.48
12	306	89	629	62	0.49
13	183	75	450	48	0.41
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	589	125	1,247	86	0.47
24	193	74	441	49	0.44
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: 0.66 For District: 10**

**Least Compact: 0.23 For District: 20**

## 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	62	50	200	28	0.56
2	60	40	126	27	0.69
3	65	39	121	29	0.74
4	253	83	550	56	0.68
5	86	48	185	33	0.68
6	50	36	102	25	0.70
7	115	56	249	38	0.68
8	109	52	212	37	0.72
9	97	52	214	35	0.67
10	58	33	88	27	0.81
11	57	39	119	27	0.70
12	306	89	629	62	0.70
13	183	75	450	48	0.64
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	589	125	1,247	86	0.69
24	193	74	441	49	0.66
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: 10**

**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
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1	62	50	200	28	0.29
2	60	40	126	27	0.53
3	65	39	121	29	0.50
4	253	83	550	56	0.47
5	86	48	185	33	0.45
6	50	36	102	25	0.55
7	115	56	249	38	0.37
8	109	52	212	37	0.57
9	97	52	214	35	0.54
10	58	33	88	27	0.58
11	57	39	119	27	0.44
12	306	89	629	62	0.42
13	183	75	450	48	0.43
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	589	125	1,247	86	0.39
24	193	74	441	49	0.42
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: 0.22 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	62	50	200	28	0.73
2	60	40	126	27	1.29

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3	65	39	121	29	1.84
4	253	83	550	56	1.59
5	86	48	185	33	1.94
6	50	36	102	25	1.68
7	115	56	249	38	0.70
8	109	52	212	37	1.37
9	97	52	214	35	1.24
10	58	33	88	27	1.83
11	57	39	119	27	0.78
12	306	89	629	62	1.19
13	183	75	450	48	1.45
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	589	125	1,247	86	1.87
24	193	74	441	49	0.74
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: 0.7 For District: 7**

## 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	62	50	200	28	0.66
2	60	40	126	27	0.85
3	65	39	121	29	0.87
4	253	83	550	56	0.83

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5	86	48	185	33	0.83
6	50	36	102	25	0.85
7	115	56	249	38	0.82
8	109	52	212	37	0.84
9	97	52	214	35	0.85
10	58	33	88	27	0.93
11	57	39	119	27	0.82
12	306	89	629	62	0.86
13	183	75	450	48	0.79
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	589	125	1,247	86	0.83
24	193	74	441	49	0.84
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: 0.62 For District: 20**