

Autobound EDGE - Compactness Report

Plan Name: State Senate:10-08-21 v1 SD

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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	767	137	1,502	98	0.51
2	458	142	1,599	76	0.29
3	1,401	234	4,358	133	0.32
4	279	82	536	59	0.52
5	82	68	366	32	0.22
6	58	50	202	27	0.29
7	320	95	725	63	0.44
8	68	63	312	29	0.22
9	74	49	189	30	0.39
10	79	50	198	32	0.40
11	204	78	478	51	0.43
12	248	88	616	56	0.40
13	51	50	195	25	0.26
14	117	73	421	38	0.28
15	1,506	250	4,978	138	0.30
16	126	61	292	40	0.43
17	77	69	374	31	0.21
18	227	85	574	53	0.40
19	54	42	142	26	0.38
20	1,903	319	8,079	155	0.24
21	603	108	930	87	0.65
22	2,499	227	4,100	177	0.61
23	77	41	133	31	0.58
24	362	101	809	67	0.45
25	5,471	326	8,457	262	0.65
26	3,405	391	12,169	207	0.28
27	146	74	434	43	0.34
28	1,479	186	2,763	136	0.54
29	1,582	246	4,835	141	0.33
30	959	146	1,688	110	0.57
31	768	133	1,416	98	0.54
32	1,297	169	2,269	128	0.57
33	2,670	273	5,945	183	0.45
34	6,040	345	9,472	275	0.64
35	4,413	344	9,418	236	0.47
36	13,810	591	27,828	417	0.50
37	9,836	613	29,891	352	0.33
38	33,196	943	70,771	646	0.47

Most Compact: 0.65 For District: 25

Least Compact: 0.21 For District: 17

Compactness measure: Schwartzberg

Autobound EDGE - Compactness Report

Plan Name: State Senate:10-08-21 v1 SD

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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	767	137	1,502	98	0.71
2	458	142	1,599	76	0.54
3	1,401	234	4,358	133	0.57
4	279	82	536	59	0.72
5	82	68	366	32	0.47
6	58	50	202	27	0.53
7	320	95	725	63	0.66
8	68	63	312	29	0.47
9	74	49	189	30	0.63
10	79	50	198	32	0.63
11	204	78	478	51	0.65
12	248	88	616	56	0.63
13	51	50	195	25	0.51
14	117	73	421	38	0.53
15	1,506	250	4,978	138	0.55
16	126	61	292	40	0.66
17	77	69	374	31	0.45
18	227	85	574	53	0.63
19	54	42	142	26	0.62
20	1,903	319	8,079	155	0.49
21	603	108	930	87	0.81
22	2,499	227	4,100	177	0.78
23	77	41	133	31	0.76
24	362	101	809	67	0.67
25	5,471	326	8,457	262	0.80
26	3,405	391	12,169	207	0.53
27	146	74	434	43	0.58
28	1,479	186	2,763	136	0.73
29	1,582	246	4,835	141	0.57
30	959	146	1,688	110	0.75
31	768	133	1,416	98	0.74
32	1,297	169	2,269	128	0.76
33	2,670	273	5,945	183	0.67
34	6,040	345	9,472	275	0.80
35	4,413	344	9,418	236	0.68
36	13,810	591	27,828	417	0.70
37	9,836	613	29,891	352	0.57
38	33,196	943	70,771	646	0.68

Most Compact: 0.81 For District: 21

Least Compact: 0.45 For District: 17

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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Autobound EDGE - Compactness Report

Plan Name: State Senate:10-08-21 v1 SD

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1	767	137	1,502	98	0.58
2	458	142	1,599	76	0.30
3	1,401	234	4,358	133	0.39
4	279	82	536	59	0.55
5	82	68	366	32	0.22
6	58	50	202	27	0.23
7	320	95	725	63	0.33
8	68	63	312	29	0.27
9	74	49	189	30	0.47
10	79	50	198	32	0.50
11	204	78	478	51	0.44
12	248	88	616	56	0.46
13	51	50	195	25	0.37
14	117	73	421	38	0.33
15	1,506	250	4,978	138	0.29
16	126	61	292	40	0.38
17	77	69	374	31	0.25
18	227	85	574	53	0.49
19	54	42	142	26	0.59
20	1,903	319	8,079	155	0.30
21	603	108	930	87	0.66
22	2,499	227	4,100	177	0.60
23	77	41	133	31	0.57
24	362	101	809	67	0.42
25	5,471	326	8,457	262	0.63
26	3,405	391	12,169	207	0.20
27	146	74	434	43	0.40
28	1,479	186	2,763	136	0.42
29	1,582	246	4,835	141	0.41
30	959	146	1,688	110	0.43
31	768	133	1,416	98	0.52
32	1,297	169	2,269	128	0.60
33	2,670	273	5,945	183	0.38
34	6,040	345	9,472	275	0.45
35	4,413	344	9,418	236	0.46
36	13,810	591	27,828	417	0.53
37	9,836	613	29,891	352	0.38
38	33,196	943	70,771	646	0.51

Most Compact: 0.66 For District: 21

Least Compact: 0.2 For District: 26

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	767	137	1,502	98	1.27
2	458	142	1,599	76	2.92

Autobound EDGE - Compactness Report

Plan Name: State Senate:10-08-21 v1 SD

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3	1,401	234	4,358	133	1.08
4	279	82	536	59	1.35
5	82	68	366	32	0.75
6	58	50	202	27	0.61
7	320	95	725	63	1.27
8	68	63	312	29	0.86
9	74	49	189	30	1.65
10	79	50	198	32	1.74
11	204	78	478	51	1.07
12	248	88	616	56	1.63
13	51	50	195	25	0.80
14	117	73	421	38	0.58
15	1,506	250	4,978	138	2.28
16	126	61	292	40	0.77
17	77	69	374	31	1.13
18	227	85	574	53	1.32
19	54	42	142	26	1.51
20	1,903	319	8,079	155	1.74
21	603	108	930	87	1.56
22	2,499	227	4,100	177	1.88
23	77	41	133	31	2.01
24	362	101	809	67	2.53
25	5,471	326	8,457	262	1.10
26	3,405	391	12,169	207	5.21
27	146	74	434	43	1.86
28	1,479	186	2,763	136	2.67
29	1,582	246	4,835	141	2.99
30	959	146	1,688	110	2.68
31	768	133	1,416	98	1.58
32	1,297	169	2,269	128	1.72
33	2,670	273	5,945	183	1.15
34	6,040	345	9,472	275	0.80
35	4,413	344	9,418	236	1.90
36	13,810	591	27,828	417	1.75
37	9,836	613	29,891	352	1.63
38	33,196	943	70,771	646	1.87

Most Compact: 5.21 For District: 26

Least Compact: 0.58 For District: 14

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	767	137	1,502	98	0.80
2	458	142	1,599	76	0.76
3	1,401	234	4,358	133	0.68
4	279	82	536	59	0.94

Autobound EDGE - Compactness Report

Plan Name: State Senate:10-08-21 v1 SD

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5	82	68	366	32	0.69
6	58	50	202	27	0.67
7	320	95	725	63	0.88
8	68	63	312	29	0.58
9	74	49	189	30	0.80
10	79	50	198	32	0.77
11	204	78	478	51	0.77
12	248	88	616	56	0.78
13	51	50	195	25	0.73
14	117	73	421	38	0.74
15	1,506	250	4,978	138	0.69
16	126	61	292	40	0.81
17	77	69	374	31	0.61
18	227	85	574	53	0.79
19	54	42	142	26	0.82
20	1,903	319	8,079	155	0.62
21	603	108	930	87	0.94
22	2,499	227	4,100	177	0.90
23	77	41	133	31	0.93
24	362	101	809	67	0.82
25	5,471	326	8,457	262	0.90
26	3,405	391	12,169	207	0.78
27	146	74	434	43	0.75
28	1,479	186	2,763	136	0.90
29	1,582	246	4,835	141	0.85
30	959	146	1,688	110	0.94
31	768	133	1,416	98	0.82
32	1,297	169	2,269	128	0.88
33	2,670	273	5,945	183	0.77
34	6,040	345	9,472	275	0.94
35	4,413	344	9,418	236	0.80
36	13,810	591	27,828	417	0.81
37	9,836	613	29,891	352	0.76
38	33,196	943	70,771	646	0.87

Most Compact: 0.94 For District: 4

Least Compact: 0.58 For District: 8