

Autobound EDGE - Compactness Report

Plan Name: State Senate:10-07-21 SD RAS BK

[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	767	137	1,502	98	0.51
2	565	162	2,098	84	0.27
3	1,473	246	4,816	136	0.31
4	288	84	555	60	0.52
5	63	54	229	28	0.27
6	62	61	292	28	0.21
7	203	76	462	51	0.44
8	68	67	357	29	0.19
9	76	52	215	31	0.35
10	79	50	198	32	0.40
11	206	80	503	51	0.41
12	251	88	616	56	0.41
13	51	50	195	25	0.26
14	113	67	355	38	0.32
15	1,701	269	5,763	146	0.30
16	130	63	315	40	0.41
17	72	65	332	30	0.22
18	224	85	577	53	0.39
19	52	40	125	26	0.41
20	1,890	318	8,068	154	0.23
21	543	108	924	83	0.59
22	2,499	227	4,100	177	0.61
23	77	41	133	31	0.58
24	362	101	809	67	0.45
25	5,086	373	11,089	253	0.46
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	1,226	169	2,270	124	0.54
33	3,030	334	8,864	195	0.34
34	5,788	347	9,573	270	0.60
35	4,334	354	9,974	233	0.43
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: 0.61 For District: 22

Least Compact: 0.19 For District: 8

Compactness measure: Schwartzberg

Autobound EDGE - Compactness Report

Plan Name: State Senate:10-07-21 SD RAS BK

[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	767	137	1,502	98	0.71
2	565	162	2,098	84	0.52
3	1,473	246	4,816	136	0.55
4	288	84	555	60	0.72
5	63	54	229	28	0.52
6	62	61	292	28	0.46
7	203	76	462	51	0.66
8	68	67	357	29	0.44
9	76	52	215	31	0.59
10	79	50	198	32	0.63
11	206	80	503	51	0.64
12	251	88	616	56	0.64
13	51	50	195	25	0.51
14	113	67	355	38	0.56
15	1,701	269	5,763	146	0.54
16	130	63	315	40	0.64
17	72	65	332	30	0.47
18	224	85	577	53	0.62
19	52	40	125	26	0.64
20	1,890	318	8,068	154	0.48
21	543	108	924	83	0.77
22	2,499	227	4,100	177	0.78
23	77	41	133	31	0.76
24	362	101	809	67	0.67
25	5,086	373	11,089	253	0.68
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	1,226	169	2,270	124	0.73
33	3,030	334	8,864	195	0.58
34	5,788	347	9,573	270	0.78
35	4,334	354	9,974	233	0.66
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: 0.78 For District: 34

Least Compact: 0.44 For District: 8

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:10-07-21 SD RAS BK

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



1	767	137	1,502	98	0.58
2	565	162	2,098	84	0.34
3	1,473	246	4,816	136	0.41
4	288	84	555	60	0.56
5	63	54	229	28	0.23
6	62	61	292	28	0.21
7	203	76	462	51	0.33
8	68	67	357	29	0.27
9	76	52	215	31	0.46
10	79	50	198	32	0.50
11	206	80	503	51	0.40
12	251	88	616	56	0.47
13	51	50	195	25	0.37
14	113	67	355	38	0.32
15	1,701	269	5,763	146	0.39
16	130	63	315	40	0.40
17	72	65	332	30	0.28
18	224	85	577	53	0.48
19	52	40	125	26	0.59
20	1,890	318	8,068	154	0.30
21	543	108	924	83	0.57
22	2,499	227	4,100	177	0.60
23	77	41	133	31	0.57
24	362	101	809	67	0.42
25	5,086	373	11,089	253	0.46
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	1,226	169	2,270	124	0.57
33	3,030	334	8,864	195	0.30
34	5,788	347	9,573	270	0.43
35	4,334	354	9,974	233	0.50
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: 22

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	565	162	2,098	84	2.37

Autobound EDGE - Compactness Report

Plan Name: State Senate:10-07-21 SD RAS BK

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



3	1,473	246	4,816	136	1.08
4	288	84	555	60	1.35
5	63	54	229	28	0.48
6	62	61	292	28	0.62
7	203	76	462	51	0.66
8	68	67	357	29	0.86
9	76	52	215	31	1.48
10	79	50	198	32	1.74
11	206	80	503	51	1.13
12	251	88	616	56	1.63
13	51	50	195	25	0.80
14	113	67	355	38	0.64
15	1,701	269	5,763	146	1.69
16	130	63	315	40	0.84
17	72	65	332	30	1.20
18	224	85	577	53	1.32
19	52	40	125	26	1.63
20	1,890	318	8,068	154	1.74
21	543	108	924	83	1.65
22	2,499	227	4,100	177	1.88
23	77	41	133	31	2.01
24	362	101	809	67	2.53
25	5,086	373	11,089	253	0.94
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	1,226	169	2,270	124	1.72
33	3,030	334	8,864	195	0.86
34	5,788	347	9,573	270	0.80
35	4,334	354	9,974	233	1.55
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: 5.21 For District: 26

Least Compact: 0.48 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	767	137	1,502	98	0.80
2	565	162	2,098	84	0.74
3	1,473	246	4,816	136	0.69
4	288	84	555	60	0.95

Autobound EDGE - Compactness Report

Plan Name: State Senate:10-07-21 SD RAS BK

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



5	63	54	229	28	0.75
6	62	61	292	28	0.61
7	203	76	462	51	0.86
8	68	67	357	29	0.58
9	76	52	215	31	0.74
10	79	50	198	32	0.77
11	206	80	503	51	0.76
12	251	88	616	56	0.78
13	51	50	195	25	0.73
14	113	67	355	38	0.78
15	1,701	269	5,763	146	0.70
16	130	63	315	40	0.78
17	72	65	332	30	0.61
18	224	85	577	53	0.79
19	52	40	125	26	0.82
20	1,890	318	8,068	154	0.62
21	543	108	924	83	0.86
22	2,499	227	4,100	177	0.90
23	77	41	133	31	0.93
24	362	101	809	67	0.82
25	5,086	373	11,089	253	0.85
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	1,226	169	2,270	124	0.86
33	3,030	334	8,864	195	0.70
34	5,788	347	9,573	270	0.91
35	4,334	354	9,974	233	0.78
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: 0.95 For District: 4

Least Compact: 0.58 For District: 8