

# Autobound EDGE - Compactness Report

Plan Name: State House:10-09-21 v1 HD DJC

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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        | 25                  | 34                | 94                                 | 18                                 | 0.26              |
| 2        | 16                  | 28                | 61                                 | 14                                 | 0.26              |
| 3        | 14                  | 24                | 46                                 | 13                                 | 0.31              |
| 4        | 57                  | 48                | 184                                | 27                                 | 0.31              |
| 5        | 27                  | 41                | 136                                | 18                                 | 0.20              |
| 6        | 16                  | 28                | 62                                 | 14                                 | 0.25              |
| 7        | 23                  | 34                | 91                                 | 17                                 | 0.26              |
| 8        | 22                  | 47                | 177                                | 16                                 | 0.12              |
| 9        | 39                  | 36                | 103                                | 22                                 | 0.37              |
| 10       | 30                  | 43                | 147                                | 19                                 | 0.20              |
| 11       | 15                  | 28                | 62                                 | 14                                 | 0.25              |
| 12       | 20                  | 24                | 44                                 | 16                                 | 0.46              |
| 13       | 18                  | 23                | 41                                 | 15                                 | 0.43              |
| 14       | 25                  | 31                | 78                                 | 18                                 | 0.32              |
| 15       | 17                  | 29                | 67                                 | 14                                 | 0.25              |
| 16       | 21                  | 45                | 160                                | 16                                 | 0.13              |
| 17       | 23                  | 27                | 58                                 | 17                                 | 0.40              |
| 18       | 18                  | 27                | 58                                 | 15                                 | 0.31              |
| 19       | 28                  | 40                | 127                                | 19                                 | 0.22              |
| 20       | 34                  | 36                | 103                                | 21                                 | 0.33              |
| 21       | 17                  | 35                | 98                                 | 15                                 | 0.17              |
| 22       | 49                  | 40                | 128                                | 25                                 | 0.38              |
| 23       | 26                  | 28                | 63                                 | 18                                 | 0.42              |
| 24       | 50                  | 36                | 104                                | 25                                 | 0.48              |
| 25       | 23                  | 29                | 67                                 | 17                                 | 0.34              |
| 26       | 43                  | 49                | 190                                | 23                                 | 0.23              |
| 27       | 78                  | 57                | 255                                | 31                                 | 0.31              |
| 28       | 27                  | 32                | 81                                 | 18                                 | 0.34              |
| 29       | 72                  | 62                | 304                                | 30                                 | 0.24              |
| 30       | 59                  | 52                | 214                                | 27                                 | 0.28              |
| 31       | 659                 | 107               | 918                                | 91                                 | 0.72              |
| 32       | 35                  | 29                | 69                                 | 21                                 | 0.52              |
| 33       | 142                 | 74                | 433                                | 42                                 | 0.33              |
| 34       | 115                 | 63                | 317                                | 38                                 | 0.36              |
| 35       | 41                  | 35                | 98                                 | 23                                 | 0.42              |
| 36       | 124                 | 68                | 369                                | 39                                 | 0.34              |
| 37       | 42                  | 30                | 72                                 | 23                                 | 0.58              |
| 38       | 37                  | 43                | 145                                | 22                                 | 0.26              |
| 39       | 81                  | 48                | 180                                | 32                                 | 0.45              |
| 40       | 112                 | 78                | 478                                | 38                                 | 0.23              |
| 41       | 229                 | 96                | 739                                | 54                                 | 0.31              |
| 42       | 25                  | 28                | 61                                 | 18                                 | 0.41              |

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|    |       |     |       |     |      |
|----|-------|-----|-------|-----|------|
| 43 | 30    | 25  | 51    | 19  | 0.58 |
| 44 | 48    | 42  | 139   | 25  | 0.34 |
| 45 | 153   | 55  | 240   | 44  | 0.64 |
| 46 | 209   | 83  | 545   | 51  | 0.38 |
| 47 | 808   | 141 | 1,581 | 101 | 0.51 |
| 48 | 296   | 86  | 590   | 61  | 0.50 |
| 49 | 4,118 | 305 | 7,422 | 227 | 0.55 |
| 50 | 761   | 139 | 1,533 | 98  | 0.50 |
| 51 | 125   | 58  | 263   | 40  | 0.47 |
| 52 | 441   | 111 | 982   | 74  | 0.45 |
| 53 | 449   | 130 | 1,341 | 75  | 0.33 |
| 54 | 405   | 105 | 885   | 71  | 0.46 |
| 55 | 225   | 98  | 771   | 53  | 0.29 |
| 56 | 1,086 | 222 | 3,925 | 117 | 0.28 |
| 57 | 948   | 218 | 3,776 | 109 | 0.25 |
| 58 | 643   | 139 | 1,543 | 90  | 0.42 |
| 59 | 3,790 | 344 | 9,399 | 218 | 0.40 |
| 60 | 171   | 77  | 477   | 46  | 0.36 |
| 61 | 335   | 106 | 886   | 65  | 0.38 |
| 62 | 645   | 128 | 1,313 | 90  | 0.49 |
| 63 | 1,177 | 166 | 2,182 | 122 | 0.54 |
| 64 | 899   | 133 | 1,397 | 106 | 0.64 |
| 65 | 393   | 112 | 1,007 | 70  | 0.39 |
| 66 | 338   | 132 | 1,393 | 65  | 0.24 |
| 67 | 44    | 31  | 75    | 24  | 0.59 |
| 68 | 151   | 66  | 346   | 44  | 0.44 |
| 69 | 219   | 94  | 706   | 52  | 0.31 |
| 70 | 163   | 88  | 615   | 45  | 0.26 |
| 71 | 929   | 228 | 4,143 | 108 | 0.22 |
| 72 | 626   | 164 | 2,145 | 89  | 0.29 |
| 73 | 35    | 37  | 107   | 21  | 0.33 |
| 74 | 255   | 100 | 795   | 57  | 0.32 |
| 75 | 44    | 31  | 78    | 23  | 0.56 |
| 76 | 40    | 34  | 90    | 23  | 0.45 |
| 77 | 120   | 62  | 303   | 39  | 0.40 |
| 78 | 18    | 29  | 68    | 15  | 0.27 |
| 79 | 42    | 36  | 103   | 23  | 0.41 |
| 80 | 101   | 58  | 264   | 36  | 0.38 |
| 81 | 576   | 138 | 1,511 | 85  | 0.38 |
| 82 | 66    | 44  | 157   | 29  | 0.42 |
| 83 | 2,200 | 206 | 3,362 | 166 | 0.65 |
| 84 | 106   | 53  | 222   | 37  | 0.48 |
| 85 | 417   | 108 | 928   | 72  | 0.45 |
| 86 | 34    | 40  | 129   | 21  | 0.27 |
| 87 | 2,756 | 252 | 5,048 | 186 | 0.55 |

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|     |        |     |        |     |      |
|-----|--------|-----|--------|-----|------|
| 88  | 647    | 175 | 2,434  | 90  | 0.27 |
| 89  | 78     | 43  | 146    | 31  | 0.54 |
| 90  | 50     | 32  | 84     | 25  | 0.59 |
| 91  | 56     | 44  | 155    | 27  | 0.36 |
| 92  | 599    | 138 | 1,523  | 87  | 0.39 |
| 93  | 689    | 151 | 1,823  | 93  | 0.38 |
| 94  | 1,719  | 191 | 2,917  | 147 | 0.59 |
| 95  | 720    | 122 | 1,181  | 95  | 0.61 |
| 96  | 260    | 91  | 666    | 57  | 0.39 |
| 97  | 898    | 145 | 1,680  | 106 | 0.53 |
| 98  | 283    | 88  | 615    | 60  | 0.46 |
| 99  | 868    | 132 | 1,397  | 104 | 0.62 |
| 100 | 1,941  | 251 | 4,996  | 156 | 0.39 |
| 101 | 3,409  | 289 | 6,646  | 207 | 0.51 |
| 102 | 2,436  | 362 | 10,413 | 175 | 0.23 |
| 103 | 2,883  | 250 | 4,975  | 190 | 0.58 |
| 104 | 2,921  | 300 | 7,146  | 192 | 0.41 |
| 105 | 7,780  | 397 | 12,550 | 313 | 0.62 |
| 106 | 4,923  | 444 | 15,720 | 249 | 0.31 |
| 107 | 9,287  | 645 | 33,135 | 342 | 0.28 |
| 108 | 10,075 | 541 | 23,305 | 356 | 0.43 |
| 109 | 14,139 | 680 | 36,767 | 422 | 0.38 |
| 110 | 46     | 37  | 108    | 24  | 0.42 |

**Most Compact: 0.72 For District: 31**

**Least Compact: 0.12 For District: 8**

### Compactness measure: Schwartzberg

| District | District Area (SQM) | Perimeter (Miles) | Area of Circle with Same Perimeter | Perimeter of Circle with Same Area | Compactness Value |
|----------|---------------------|-------------------|------------------------------------|------------------------------------|-------------------|
| 1        | 25                  | 34                | 94                                 | 18                                 | 0.51              |
| 2        | 16                  | 28                | 61                                 | 14                                 | 0.51              |
| 3        | 14                  | 24                | 46                                 | 13                                 | 0.55              |
| 4        | 57                  | 48                | 184                                | 27                                 | 0.55              |
| 5        | 27                  | 41                | 136                                | 18                                 | 0.45              |
| 6        | 16                  | 28                | 62                                 | 14                                 | 0.50              |
| 7        | 23                  | 34                | 91                                 | 17                                 | 0.51              |
| 8        | 22                  | 47                | 177                                | 16                                 | 0.35              |
| 9        | 39                  | 36                | 103                                | 22                                 | 0.61              |
| 10       | 30                  | 43                | 147                                | 19                                 | 0.45              |
| 11       | 15                  | 28                | 62                                 | 14                                 | 0.50              |
| 12       | 20                  | 24                | 44                                 | 16                                 | 0.68              |
| 13       | 18                  | 23                | 41                                 | 15                                 | 0.66              |
| 14       | 25                  | 31                | 78                                 | 18                                 | 0.56              |
| 15       | 17                  | 29                | 67                                 | 14                                 | 0.50              |
| 16       | 21                  | 45                | 160                                | 16                                 | 0.36              |
| 17       | 23                  | 27                | 58                                 | 17                                 | 0.63              |

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|    |       |     |       |     |      |
|----|-------|-----|-------|-----|------|
| 18 | 18    | 27  | 58    | 15  | 0.56 |
| 19 | 28    | 40  | 127   | 19  | 0.47 |
| 20 | 34    | 36  | 103   | 21  | 0.57 |
| 21 | 17    | 35  | 98    | 15  | 0.41 |
| 22 | 49    | 40  | 128   | 25  | 0.62 |
| 23 | 26    | 28  | 63    | 18  | 0.64 |
| 24 | 50    | 36  | 104   | 25  | 0.70 |
| 25 | 23    | 29  | 67    | 17  | 0.58 |
| 26 | 43    | 49  | 190   | 23  | 0.47 |
| 27 | 78    | 57  | 255   | 31  | 0.55 |
| 28 | 27    | 32  | 81    | 18  | 0.58 |
| 29 | 72    | 62  | 304   | 30  | 0.49 |
| 30 | 59    | 52  | 214   | 27  | 0.53 |
| 31 | 659   | 107 | 918   | 91  | 0.85 |
| 32 | 35    | 29  | 69    | 21  | 0.72 |
| 33 | 142   | 74  | 433   | 42  | 0.57 |
| 34 | 115   | 63  | 317   | 38  | 0.60 |
| 35 | 41    | 35  | 98    | 23  | 0.65 |
| 36 | 124   | 68  | 369   | 39  | 0.58 |
| 37 | 42    | 30  | 72    | 23  | 0.76 |
| 38 | 37    | 43  | 145   | 22  | 0.51 |
| 39 | 81    | 48  | 180   | 32  | 0.67 |
| 40 | 112   | 78  | 478   | 38  | 0.48 |
| 41 | 229   | 96  | 739   | 54  | 0.56 |
| 42 | 25    | 28  | 61    | 18  | 0.64 |
| 43 | 30    | 25  | 51    | 19  | 0.76 |
| 44 | 48    | 42  | 139   | 25  | 0.59 |
| 45 | 153   | 55  | 240   | 44  | 0.80 |
| 46 | 209   | 83  | 545   | 51  | 0.62 |
| 47 | 808   | 141 | 1,581 | 101 | 0.71 |
| 48 | 296   | 86  | 590   | 61  | 0.71 |
| 49 | 4,118 | 305 | 7,422 | 227 | 0.74 |
| 50 | 761   | 139 | 1,533 | 98  | 0.70 |
| 51 | 125   | 58  | 263   | 40  | 0.69 |
| 52 | 441   | 111 | 982   | 74  | 0.67 |
| 53 | 449   | 130 | 1,341 | 75  | 0.58 |
| 54 | 405   | 105 | 885   | 71  | 0.68 |
| 55 | 225   | 98  | 771   | 53  | 0.54 |
| 56 | 1,086 | 222 | 3,925 | 117 | 0.53 |
| 57 | 948   | 218 | 3,776 | 109 | 0.50 |
| 58 | 643   | 139 | 1,543 | 90  | 0.65 |
| 59 | 3,790 | 344 | 9,399 | 218 | 0.63 |
| 60 | 171   | 77  | 477   | 46  | 0.60 |
| 61 | 335   | 106 | 886   | 65  | 0.62 |
| 62 | 645   | 128 | 1,313 | 90  | 0.70 |

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|     |       |     |        |     |      |
|-----|-------|-----|--------|-----|------|
| 63  | 1,177 | 166 | 2,182  | 122 | 0.73 |
| 64  | 899   | 133 | 1,397  | 106 | 0.80 |
| 65  | 393   | 112 | 1,007  | 70  | 0.62 |
| 66  | 338   | 132 | 1,393  | 65  | 0.49 |
| 67  | 44    | 31  | 75     | 24  | 0.77 |
| 68  | 151   | 66  | 346    | 44  | 0.66 |
| 69  | 219   | 94  | 706    | 52  | 0.56 |
| 70  | 163   | 88  | 615    | 45  | 0.51 |
| 71  | 929   | 228 | 4,143  | 108 | 0.47 |
| 72  | 626   | 164 | 2,145  | 89  | 0.54 |
| 73  | 35    | 37  | 107    | 21  | 0.57 |
| 74  | 255   | 100 | 795    | 57  | 0.57 |
| 75  | 44    | 31  | 78     | 23  | 0.75 |
| 76  | 40    | 34  | 90     | 23  | 0.67 |
| 77  | 120   | 62  | 303    | 39  | 0.63 |
| 78  | 18    | 29  | 68     | 15  | 0.52 |
| 79  | 42    | 36  | 103    | 23  | 0.64 |
| 80  | 101   | 58  | 264    | 36  | 0.62 |
| 81  | 576   | 138 | 1,511  | 85  | 0.62 |
| 82  | 66    | 44  | 157    | 29  | 0.65 |
| 83  | 2,200 | 206 | 3,362  | 166 | 0.81 |
| 84  | 106   | 53  | 222    | 37  | 0.69 |
| 85  | 417   | 108 | 928    | 72  | 0.67 |
| 86  | 34    | 40  | 129    | 21  | 0.52 |
| 87  | 2,756 | 252 | 5,048  | 186 | 0.74 |
| 88  | 647   | 175 | 2,434  | 90  | 0.52 |
| 89  | 78    | 43  | 146    | 31  | 0.73 |
| 90  | 50    | 32  | 84     | 25  | 0.77 |
| 91  | 56    | 44  | 155    | 27  | 0.60 |
| 92  | 599   | 138 | 1,523  | 87  | 0.63 |
| 93  | 689   | 151 | 1,823  | 93  | 0.62 |
| 94  | 1,719 | 191 | 2,917  | 147 | 0.77 |
| 95  | 720   | 122 | 1,181  | 95  | 0.78 |
| 96  | 260   | 91  | 666    | 57  | 0.62 |
| 97  | 898   | 145 | 1,680  | 106 | 0.73 |
| 98  | 283   | 88  | 615    | 60  | 0.68 |
| 99  | 868   | 132 | 1,397  | 104 | 0.79 |
| 100 | 1,941 | 251 | 4,996  | 156 | 0.62 |
| 101 | 3,409 | 289 | 6,646  | 207 | 0.72 |
| 102 | 2,436 | 362 | 10,413 | 175 | 0.48 |
| 103 | 2,883 | 250 | 4,975  | 190 | 0.76 |
| 104 | 2,921 | 300 | 7,146  | 192 | 0.64 |
| 105 | 7,780 | 397 | 12,550 | 313 | 0.79 |
| 106 | 4,923 | 444 | 15,720 | 249 | 0.56 |
| 107 | 9,287 | 645 | 33,135 | 342 | 0.53 |

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|     |        |     |        |     |      |
|-----|--------|-----|--------|-----|------|
| 108 | 10,075 | 541 | 23,305 | 356 | 0.66 |
| 109 | 14,139 | 680 | 36,767 | 422 | 0.62 |
| 110 | 46     | 37  | 108    | 24  | 0.65 |

**Most Compact: 0.85 For District: 31**

**Least Compact: 0.35 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 |
|----------|---------------------|-------------------|------------------------------------|------------------------------------|-------------------|
| 1        | 25                  | 34                | 94                                 | 18                                 | 0.30              |
| 2        | 16                  | 28                | 61                                 | 14                                 | 0.39              |
| 3        | 14                  | 24                | 46                                 | 13                                 | 0.41              |
| 4        | 57                  | 48                | 184                                | 27                                 | 0.20              |
| 5        | 27                  | 41                | 136                                | 18                                 | 0.23              |
| 6        | 16                  | 28                | 62                                 | 14                                 | 0.26              |
| 7        | 23                  | 34                | 91                                 | 17                                 | 0.36              |
| 8        | 22                  | 47                | 177                                | 16                                 | 0.19              |
| 9        | 39                  | 36                | 103                                | 22                                 | 0.41              |
| 10       | 30                  | 43                | 147                                | 19                                 | 0.23              |
| 11       | 15                  | 28                | 62                                 | 14                                 | 0.23              |
| 12       | 20                  | 24                | 44                                 | 16                                 | 0.40              |
| 13       | 18                  | 23                | 41                                 | 15                                 | 0.45              |
| 14       | 25                  | 31                | 78                                 | 18                                 | 0.38              |
| 15       | 17                  | 29                | 67                                 | 14                                 | 0.30              |
| 16       | 21                  | 45                | 160                                | 16                                 | 0.14              |
| 17       | 23                  | 27                | 58                                 | 17                                 | 0.28              |
| 18       | 18                  | 27                | 58                                 | 15                                 | 0.37              |
| 19       | 28                  | 40                | 127                                | 19                                 | 0.24              |
| 20       | 34                  | 36                | 103                                | 21                                 | 0.37              |
| 21       | 17                  | 35                | 98                                 | 15                                 | 0.18              |
| 22       | 49                  | 40                | 128                                | 25                                 | 0.33              |
| 23       | 26                  | 28                | 63                                 | 18                                 | 0.38              |
| 24       | 50                  | 36                | 104                                | 25                                 | 0.48              |
| 25       | 23                  | 29                | 67                                 | 17                                 | 0.35              |
| 26       | 43                  | 49                | 190                                | 23                                 | 0.52              |
| 27       | 78                  | 57                | 255                                | 31                                 | 0.56              |
| 28       | 27                  | 32                | 81                                 | 18                                 | 0.42              |
| 29       | 72                  | 62                | 304                                | 30                                 | 0.27              |
| 30       | 59                  | 52                | 214                                | 27                                 | 0.43              |
| 31       | 659                 | 107               | 918                                | 91                                 | 0.58              |
| 32       | 35                  | 29                | 69                                 | 21                                 | 0.61              |
| 33       | 142                 | 74                | 433                                | 42                                 | 0.40              |
| 34       | 115                 | 63                | 317                                | 38                                 | 0.42              |
| 35       | 41                  | 35                | 98                                 | 23                                 | 0.47              |
| 36       | 124                 | 68                | 369                                | 39                                 | 0.30              |
| 37       | 42                  | 30                | 72                                 | 23                                 | 0.50              |

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| 38 | 37    | 43  | 145   | 22  | 0.33 |
| 39 | 81    | 48  | 180   | 32  | 0.71 |
| 40 | 112   | 78  | 478   | 38  | 0.21 |
| 41 | 229   | 96  | 739   | 54  | 0.31 |
| 42 | 25    | 28  | 61    | 18  | 0.44 |
| 43 | 30    | 25  | 51    | 19  | 0.52 |
| 44 | 48    | 42  | 139   | 25  | 0.36 |
| 45 | 153   | 55  | 240   | 44  | 0.57 |
| 46 | 209   | 83  | 545   | 51  | 0.37 |
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| 50 | 761   | 139 | 1,533 | 98  | 0.44 |
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| 59 | 3,790 | 344 | 9,399 | 218 | 0.29 |
| 60 | 171   | 77  | 477   | 46  | 0.36 |
| 61 | 335   | 106 | 886   | 65  | 0.39 |
| 62 | 645   | 128 | 1,313 | 90  | 0.53 |
| 63 | 1,177 | 166 | 2,182 | 122 | 0.41 |
| 64 | 899   | 133 | 1,397 | 106 | 0.51 |
| 65 | 393   | 112 | 1,007 | 70  | 0.45 |
| 66 | 338   | 132 | 1,393 | 65  | 0.28 |
| 67 | 44    | 31  | 75    | 24  | 0.49 |
| 68 | 151   | 66  | 346   | 44  | 0.40 |
| 69 | 219   | 94  | 706   | 52  | 0.27 |
| 70 | 163   | 88  | 615   | 45  | 0.31 |
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| 73 | 35    | 37  | 107   | 21  | 0.48 |
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| 75 | 44    | 31  | 78    | 23  | 0.63 |
| 76 | 40    | 34  | 90    | 23  | 0.49 |
| 77 | 120   | 62  | 303   | 39  | 0.51 |
| 78 | 18    | 29  | 68    | 15  | 0.39 |
| 79 | 42    | 36  | 103   | 23  | 0.44 |
| 80 | 101   | 58  | 264   | 36  | 0.52 |
| 81 | 576   | 138 | 1,511 | 85  | 0.37 |
| 82 | 66    | 44  | 157   | 29  | 0.63 |

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|-----|--------|-----|--------|-----|------|
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| 84  | 106    | 53  | 222    | 37  | 0.61 |
| 85  | 417    | 108 | 928    | 72  | 0.50 |
| 86  | 34     | 40  | 129    | 21  | 0.46 |
| 87  | 2,756  | 252 | 5,048  | 186 | 0.47 |
| 88  | 647    | 175 | 2,434  | 90  | 0.29 |
| 89  | 78     | 43  | 146    | 31  | 0.50 |
| 90  | 50     | 32  | 84     | 25  | 0.62 |
| 91  | 56     | 44  | 155    | 27  | 0.49 |
| 92  | 599    | 138 | 1,523  | 87  | 0.52 |
| 93  | 689    | 151 | 1,823  | 93  | 0.28 |
| 94  | 1,719  | 191 | 2,917  | 147 | 0.54 |
| 95  | 720    | 122 | 1,181  | 95  | 0.61 |
| 96  | 260    | 91  | 666    | 57  | 0.37 |
| 97  | 898    | 145 | 1,680  | 106 | 0.52 |
| 98  | 283    | 88  | 615    | 60  | 0.39 |
| 99  | 868    | 132 | 1,397  | 104 | 0.54 |
| 100 | 1,941  | 251 | 4,996  | 156 | 0.34 |
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| 102 | 2,436  | 362 | 10,413 | 175 | 0.31 |
| 103 | 2,883  | 250 | 4,975  | 190 | 0.55 |
| 104 | 2,921  | 300 | 7,146  | 192 | 0.50 |
| 105 | 7,780  | 397 | 12,550 | 313 | 0.46 |
| 106 | 4,923  | 444 | 15,720 | 249 | 0.43 |
| 107 | 9,287  | 645 | 33,135 | 342 | 0.34 |
| 108 | 10,075 | 541 | 23,305 | 356 | 0.58 |
| 109 | 14,139 | 680 | 36,767 | 422 | 0.57 |
| 110 | 46     | 37  | 108    | 24  | 0.40 |

**Most Compact: 0.72 For District: 49**

**Least Compact: 0.14 For District: 16**

### 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        | 25                  | 34                | 94                                 | 18                                 | 0.77              |
| 2        | 16                  | 28                | 61                                 | 14                                 | 0.93              |
| 3        | 14                  | 24                | 46                                 | 13                                 | 0.81              |
| 4        | 57                  | 48                | 184                                | 27                                 | 2.08              |
| 5        | 27                  | 41                | 136                                | 18                                 | 2.32              |
| 6        | 16                  | 28                | 62                                 | 14                                 | 0.82              |
| 7        | 23                  | 34                | 91                                 | 17                                 | 1.76              |
| 8        | 22                  | 47                | 177                                | 16                                 | 0.73              |
| 9        | 39                  | 36                | 103                                | 22                                 | 1.94              |
| 10       | 30                  | 43                | 147                                | 19                                 | 0.78              |
| 11       | 15                  | 28                | 62                                 | 14                                 | 0.83              |
| 12       | 20                  | 24                | 44                                 | 16                                 | 0.62              |



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|    |       |     |       |     |      |
|----|-------|-----|-------|-----|------|
| 13 | 18    | 23  | 41    | 15  | 0.75 |
| 14 | 25    | 31  | 78    | 18  | 1.67 |
| 15 | 17    | 29  | 67    | 14  | 1.08 |
| 16 | 21    | 45  | 160   | 16  | 0.56 |
| 17 | 23    | 27  | 58    | 17  | 4.09 |
| 18 | 18    | 27  | 58    | 15  | 0.69 |
| 19 | 28    | 40  | 127   | 19  | 2.20 |
| 20 | 34    | 36  | 103   | 21  | 1.03 |
| 21 | 17    | 35  | 98    | 15  | 0.51 |
| 22 | 49    | 40  | 128   | 25  | 0.60 |
| 23 | 26    | 28  | 63    | 18  | 1.09 |
| 24 | 50    | 36  | 104   | 25  | 2.15 |
| 25 | 23    | 29  | 67    | 17  | 0.65 |
| 26 | 43    | 49  | 190   | 23  | 1.43 |
| 27 | 78    | 57  | 255   | 31  | 1.97 |
| 28 | 27    | 32  | 81    | 18  | 0.83 |
| 29 | 72    | 62  | 304   | 30  | 0.47 |
| 30 | 59    | 52  | 214   | 27  | 1.76 |
| 31 | 659   | 107 | 918   | 91  | 1.01 |
| 32 | 35    | 29  | 69    | 21  | 1.54 |
| 33 | 142   | 74  | 433   | 42  | 0.89 |
| 34 | 115   | 63  | 317   | 38  | 1.14 |
| 35 | 41    | 35  | 98    | 23  | 2.17 |
| 36 | 124   | 68  | 369   | 39  | 0.77 |
| 37 | 42    | 30  | 72    | 23  | 0.96 |
| 38 | 37    | 43  | 145   | 22  | 1.93 |
| 39 | 81    | 48  | 180   | 32  | 1.42 |
| 40 | 112   | 78  | 478   | 38  | 0.67 |
| 41 | 229   | 96  | 739   | 54  | 0.98 |
| 42 | 25    | 28  | 61    | 18  | 1.28 |
| 43 | 30    | 25  | 51    | 19  | 1.33 |
| 44 | 48    | 42  | 139   | 25  | 2.60 |
| 45 | 153   | 55  | 240   | 44  | 1.61 |
| 46 | 209   | 83  | 545   | 51  | 2.59 |
| 47 | 808   | 141 | 1,581 | 101 | 1.09 |
| 48 | 296   | 86  | 590   | 61  | 0.71 |
| 49 | 4,118 | 305 | 7,422 | 227 | 1.56 |
| 50 | 761   | 139 | 1,533 | 98  | 1.10 |
| 51 | 125   | 58  | 263   | 40  | 1.08 |
| 52 | 441   | 111 | 982   | 74  | 1.66 |
| 53 | 449   | 130 | 1,341 | 75  | 1.11 |
| 54 | 405   | 105 | 885   | 71  | 1.34 |
| 55 | 225   | 98  | 771   | 53  | 1.43 |
| 56 | 1,086 | 222 | 3,925 | 117 | 2.06 |
| 57 | 948   | 218 | 3,776 | 109 | 1.02 |

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|     |       |     |        |     |      |
|-----|-------|-----|--------|-----|------|
| 58  | 643   | 139 | 1,543  | 90  | 1.04 |
| 59  | 3,790 | 344 | 9,399  | 218 | 3.54 |
| 60  | 171   | 77  | 477    | 46  | 0.76 |
| 61  | 335   | 106 | 886    | 65  | 2.81 |
| 62  | 645   | 128 | 1,313  | 90  | 1.62 |
| 63  | 1,177 | 166 | 2,182  | 122 | 2.82 |
| 64  | 899   | 133 | 1,397  | 106 | 2.61 |
| 65  | 393   | 112 | 1,007  | 70  | 1.53 |
| 66  | 338   | 132 | 1,393  | 65  | 2.71 |
| 67  | 44    | 31  | 75     | 24  | 1.53 |
| 68  | 151   | 66  | 346    | 44  | 1.79 |
| 69  | 219   | 94  | 706    | 52  | 3.35 |
| 70  | 163   | 88  | 615    | 45  | 3.13 |
| 71  | 929   | 228 | 4,143  | 108 | 2.35 |
| 72  | 626   | 164 | 2,145  | 89  | 2.34 |
| 73  | 35    | 37  | 107    | 21  | 1.13 |
| 74  | 255   | 100 | 795    | 57  | 3.04 |
| 75  | 44    | 31  | 78     | 23  | 0.98 |
| 76  | 40    | 34  | 90     | 23  | 1.38 |
| 77  | 120   | 62  | 303    | 39  | 1.76 |
| 78  | 18    | 29  | 68     | 15  | 2.04 |
| 79  | 42    | 36  | 103    | 23  | 0.82 |
| 80  | 101   | 58  | 264    | 36  | 1.36 |
| 81  | 576   | 138 | 1,511  | 85  | 1.70 |
| 82  | 66    | 44  | 157    | 29  | 1.53 |
| 83  | 2,200 | 206 | 3,362  | 166 | 1.59 |
| 84  | 106   | 53  | 222    | 37  | 1.21 |
| 85  | 417   | 108 | 928    | 72  | 0.97 |
| 86  | 34    | 40  | 129    | 21  | 1.40 |
| 87  | 2,756 | 252 | 5,048  | 186 | 1.07 |
| 88  | 647   | 175 | 2,434  | 90  | 0.83 |
| 89  | 78    | 43  | 146    | 31  | 0.86 |
| 90  | 50    | 32  | 84     | 25  | 0.93 |
| 91  | 56    | 44  | 155    | 27  | 1.77 |
| 92  | 599   | 138 | 1,523  | 87  | 1.27 |
| 93  | 689   | 151 | 1,823  | 93  | 4.03 |
| 94  | 1,719 | 191 | 2,917  | 147 | 1.37 |
| 95  | 720   | 122 | 1,181  | 95  | 1.36 |
| 96  | 260   | 91  | 666    | 57  | 1.12 |
| 97  | 898   | 145 | 1,680  | 106 | 1.35 |
| 98  | 283   | 88  | 615    | 60  | 1.80 |
| 99  | 868   | 132 | 1,397  | 104 | 2.39 |
| 100 | 1,941 | 251 | 4,996  | 156 | 0.73 |
| 101 | 3,409 | 289 | 6,646  | 207 | 0.90 |
| 102 | 2,436 | 362 | 10,413 | 175 | 1.80 |

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|     |        |     |        |     |      |
|-----|--------|-----|--------|-----|------|
| 103 | 2,883  | 250 | 4,975  | 190 | 1.39 |
| 104 | 2,921  | 300 | 7,146  | 192 | 1.39 |
| 105 | 7,780  | 397 | 12,550 | 313 | 1.85 |
| 106 | 4,923  | 444 | 15,720 | 249 | 1.71 |
| 107 | 9,287  | 645 | 33,135 | 342 | 1.58 |
| 108 | 10,075 | 541 | 23,305 | 356 | 1.35 |
| 109 | 14,139 | 680 | 36,767 | 422 | 1.30 |
| 110 | 46     | 37  | 108    | 24  | 1.19 |

**Most Compact: 4.09 For District: 17**

**Least Compact: 0.47 For District: 29**

### 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        | 25                  | 34                | 94                                 | 18                                 | 0.71              |
| 2        | 16                  | 28                | 61                                 | 14                                 | 0.72              |
| 3        | 14                  | 24                | 46                                 | 13                                 | 0.77              |
| 4        | 57                  | 48                | 184                                | 27                                 | 0.76              |
| 5        | 27                  | 41                | 136                                | 18                                 | 0.54              |
| 6        | 16                  | 28                | 62                                 | 14                                 | 0.71              |
| 7        | 23                  | 34                | 91                                 | 17                                 | 0.66              |
| 8        | 22                  | 47                | 177                                | 16                                 | 0.40              |
| 9        | 39                  | 36                | 103                                | 22                                 | 0.72              |
| 10       | 30                  | 43                | 147                                | 19                                 | 0.60              |
| 11       | 15                  | 28                | 62                                 | 14                                 | 0.65              |
| 12       | 20                  | 24                | 44                                 | 16                                 | 0.87              |
| 13       | 18                  | 23                | 41                                 | 15                                 | 0.81              |
| 14       | 25                  | 31                | 78                                 | 18                                 | 0.72              |
| 15       | 17                  | 29                | 67                                 | 14                                 | 0.64              |
| 16       | 21                  | 45                | 160                                | 16                                 | 0.46              |
| 17       | 23                  | 27                | 58                                 | 17                                 | 0.90              |
| 18       | 18                  | 27                | 58                                 | 15                                 | 0.74              |
| 19       | 28                  | 40                | 127                                | 19                                 | 0.60              |
| 20       | 34                  | 36                | 103                                | 21                                 | 0.74              |
| 21       | 17                  | 35                | 98                                 | 15                                 | 0.57              |
| 22       | 49                  | 40                | 128                                | 25                                 | 0.77              |
| 23       | 26                  | 28                | 63                                 | 18                                 | 0.84              |
| 24       | 50                  | 36                | 104                                | 25                                 | 0.84              |
| 25       | 23                  | 29                | 67                                 | 17                                 | 0.86              |
| 26       | 43                  | 49                | 190                                | 23                                 | 0.73              |
| 27       | 78                  | 57                | 255                                | 31                                 | 0.79              |
| 28       | 27                  | 32                | 81                                 | 18                                 | 0.76              |
| 29       | 72                  | 62                | 304                                | 30                                 | 0.69              |
| 30       | 59                  | 52                | 214                                | 27                                 | 0.73              |
| 31       | 659                 | 107               | 918                                | 91                                 | 0.97              |
| 32       | 35                  | 29                | 69                                 | 21                                 | 0.91              |

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|    |       |     |       |     |      |
|----|-------|-----|-------|-----|------|
| 33 | 142   | 74  | 433   | 42  | 0.76 |
| 34 | 115   | 63  | 317   | 38  | 0.75 |
| 35 | 41    | 35  | 98    | 23  | 0.82 |
| 36 | 124   | 68  | 369   | 39  | 0.69 |
| 37 | 42    | 30  | 72    | 23  | 0.92 |
| 38 | 37    | 43  | 145   | 22  | 0.66 |
| 39 | 81    | 48  | 180   | 32  | 0.85 |
| 40 | 112   | 78  | 478   | 38  | 0.64 |
| 41 | 229   | 96  | 739   | 54  | 0.71 |
| 42 | 25    | 28  | 61    | 18  | 0.77 |
| 43 | 30    | 25  | 51    | 19  | 0.91 |
| 44 | 48    | 42  | 139   | 25  | 0.78 |
| 45 | 153   | 55  | 240   | 44  | 0.92 |
| 46 | 209   | 83  | 545   | 51  | 0.81 |
| 47 | 808   | 141 | 1,581 | 101 | 0.81 |
| 48 | 296   | 86  | 590   | 61  | 0.88 |
| 49 | 4,118 | 305 | 7,422 | 227 | 0.91 |
| 50 | 761   | 139 | 1,533 | 98  | 0.83 |
| 51 | 125   | 58  | 263   | 40  | 0.86 |
| 52 | 441   | 111 | 982   | 74  | 0.79 |
| 53 | 449   | 130 | 1,341 | 75  | 0.81 |
| 54 | 405   | 105 | 885   | 71  | 0.83 |
| 55 | 225   | 98  | 771   | 53  | 0.72 |
| 56 | 1,086 | 222 | 3,925 | 117 | 0.74 |
| 57 | 948   | 218 | 3,776 | 109 | 0.74 |
| 58 | 643   | 139 | 1,543 | 90  | 0.78 |
| 59 | 3,790 | 344 | 9,399 | 218 | 0.80 |
| 60 | 171   | 77  | 477   | 46  | 0.74 |
| 61 | 335   | 106 | 886   | 65  | 0.82 |
| 62 | 645   | 128 | 1,313 | 90  | 0.89 |
| 63 | 1,177 | 166 | 2,182 | 122 | 0.91 |
| 64 | 899   | 133 | 1,397 | 106 | 0.99 |
| 65 | 393   | 112 | 1,007 | 70  | 0.77 |
| 66 | 338   | 132 | 1,393 | 65  | 0.70 |
| 67 | 44    | 31  | 75    | 24  | 0.91 |
| 68 | 151   | 66  | 346   | 44  | 0.83 |
| 69 | 219   | 94  | 706   | 52  | 0.71 |
| 70 | 163   | 88  | 615   | 45  | 0.73 |
| 71 | 929   | 228 | 4,143 | 108 | 0.70 |
| 72 | 626   | 164 | 2,145 | 89  | 0.73 |
| 73 | 35    | 37  | 107   | 21  | 0.82 |
| 74 | 255   | 100 | 795   | 57  | 0.68 |
| 75 | 44    | 31  | 78    | 23  | 0.90 |
| 76 | 40    | 34  | 90    | 23  | 0.79 |
| 77 | 120   | 62  | 303   | 39  | 0.74 |

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|     |        |     |        |     |      |
|-----|--------|-----|--------|-----|------|
| 78  | 18     | 29  | 68     | 15  | 0.71 |
| 79  | 42     | 36  | 103    | 23  | 0.83 |
| 80  | 101    | 58  | 264    | 36  | 0.84 |
| 81  | 576    | 138 | 1,511  | 85  | 0.82 |
| 82  | 66     | 44  | 157    | 29  | 0.87 |
| 83  | 2,200  | 206 | 3,362  | 166 | 0.93 |
| 84  | 106    | 53  | 222    | 37  | 0.82 |
| 85  | 417    | 108 | 928    | 72  | 0.78 |
| 86  | 34     | 40  | 129    | 21  | 0.66 |
| 87  | 2,756  | 252 | 5,048  | 186 | 0.90 |
| 88  | 647    | 175 | 2,434  | 90  | 0.62 |
| 89  | 78     | 43  | 146    | 31  | 0.93 |
| 90  | 50     | 32  | 84     | 25  | 0.96 |
| 91  | 56     | 44  | 155    | 27  | 0.76 |
| 92  | 599    | 138 | 1,523  | 87  | 0.82 |
| 93  | 689    | 151 | 1,823  | 93  | 0.83 |
| 94  | 1,719  | 191 | 2,917  | 147 | 0.86 |
| 95  | 720    | 122 | 1,181  | 95  | 0.88 |
| 96  | 260    | 91  | 666    | 57  | 0.72 |
| 97  | 898    | 145 | 1,680  | 106 | 0.83 |
| 98  | 283    | 88  | 615    | 60  | 0.81 |
| 99  | 868    | 132 | 1,397  | 104 | 0.92 |
| 100 | 1,941  | 251 | 4,996  | 156 | 0.73 |
| 101 | 3,409  | 289 | 6,646  | 207 | 0.87 |
| 102 | 2,436  | 362 | 10,413 | 175 | 0.56 |
| 103 | 2,883  | 250 | 4,975  | 190 | 0.87 |
| 104 | 2,921  | 300 | 7,146  | 192 | 0.74 |
| 105 | 7,780  | 397 | 12,550 | 313 | 0.93 |
| 106 | 4,923  | 444 | 15,720 | 249 | 0.68 |
| 107 | 9,287  | 645 | 33,135 | 342 | 0.67 |
| 108 | 10,075 | 541 | 23,305 | 356 | 0.79 |
| 109 | 14,139 | 680 | 36,767 | 422 | 0.78 |
| 110 | 46     | 37  | 108    | 24  | 0.80 |

**Most Compact: 0.99 For District: 64**

**Least Compact: 0.4 For District: 8**