

## Index

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## Monthly Climate and Fire Data

| Year | Month | Fire_Count | Max_temp | Rain  | Rain_previous_month | Fire_previous_month |
|------|-------|------------|----------|-------|---------------------|---------------------|
| 2002 | 2     | 0          | 29.475   | 34.4  | 9.05                | 0                   |
| 2002 | 3     | 0          | 34.7     | 9.05  | 14                  | 8                   |
| 2002 | 4     | 8          | 39.325   | 14    | 17.1                | 8                   |
| 2002 | 5     | 8          | 41.45    | 17.1  | 214.1               | 0                   |
| 2003 | 2     | 0          | 29.625   | 23.25 | 11.95               | 0                   |
| 2003 | 3     | 0          | 33.7     | 11.95 | 3.9                 | 26                  |
| 2003 | 4     | 26         | 39.125   | 3.9   | 7.8                 | 26                  |
| 2003 | 5     | 26         | 40.9     | 7.8   | 164.05              | 0                   |
| 2004 | 2     | 0          | 28.475   | 0.7   | 1.55                | 6                   |
| 2004 | 3     | 6          | 35.6     | 1.55  | 7.5                 | 19                  |
| 2004 | 4     | 19         | 39.425   | 7.5   | 19.65               | 4                   |
| 2004 | 5     | 4          | 40       | 19.65 | 180.3               | 3                   |
| 2005 | 2     | 3          | 29.075   | 4     | 32.65               | 3                   |
| 2005 | 3     | 3          | 34.3     | 32.65 | 5.2                 | 22                  |
| 2005 | 4     | 22         | 37.925   | 5.2   | 5.7                 | 4                   |

|      |   |    |        |       |        |    |
|------|---|----|--------|-------|--------|----|
| 2005 | 5 | 4  | 40.25  | 5.7   | 146.15 | 4  |
| 2006 | 2 | 4  | 30.525 | 0.7   | 80.5   | 3  |
| 2006 | 3 | 3  | 32.9   | 80.5  | 13.45  | 3  |
| 2006 | 4 | 3  | 38.125 | 13.45 | 49.5   | 3  |
| 2006 | 5 | 3  | 40.05  | 49.5  | 118.15 | 0  |
| 2007 | 2 | 0  | 29.175 | 10.55 | 3.3    | 2  |
| 2007 | 3 | 2  | 33.8   | 3.3   | 14.4   | 10 |
| 2007 | 4 | 10 | 39.075 | 14.4  | 17     | 4  |
| 2007 | 5 | 4  | 40.55  | 17    | 141.6  | 2  |
| 2008 | 2 | 2  | 27.475 | 0.7   | 14.75  | 5  |
| 2008 | 3 | 5  | 34.75  | 14.75 | 3.1    | 50 |
| 2008 | 4 | 50 | 38.025 | 3.1   | 6.15   | 14 |
| 2008 | 5 | 14 | 40.15  | 6.15  | 238.3  | 1  |
| 2009 | 2 | 1  | 31.075 | 0.7   | 9.3    | 13 |
| 2009 | 3 | 13 | 34.95  | 9.3   | 2.25   | 10 |
| 2009 | 4 | 10 | 39.125 | 2.25  | 43     | 7  |
| 2009 | 5 | 7  | 41.05  | 43    | 114.55 | 0  |
| 2010 | 2 | 0  | 29.575 | 7.5   | 11.15  | 2  |
| 2010 | 3 | 2  | 35.8   | 11.15 | 1      | 3  |
| 2010 | 4 | 3  | 40.325 | 1     | 2.35   | 7  |
| 2010 | 5 | 7  | 41.45  | 2.35  | 101.7  | 0  |
| 2011 | 2 | 0  | 29.175 | 8.3   | 3.5    | 10 |
| 2011 | 3 | 10 | 34.4   | 3.5   | 22.05  | 2  |
| 2011 | 4 | 2  | 37.575 | 22.05 | 15.35  | 6  |
| 2011 | 5 | 6  | 40.45  | 15.35 | 289.6  | 8  |
| 2012 | 2 | 8  | 28.825 | 2.05  | 0.7    | 12 |
| 2012 | 3 | 12 | 33.7   | 0.7   | 4      | 87 |
| 2012 | 4 | 87 | 38.775 | 4     | 17.5   | 63 |
| 2012 | 5 | 63 | 40.95  | 17.5  | 86.6   | 5  |
| 2013 | 2 | 5  | 29.075 | 23.7  | 24.1   | 3  |

|      |   |     |        |       |        |     |
|------|---|-----|--------|-------|--------|-----|
| 2013 | 3 | 3   | 34     | 24.1  | 15.7   | 31  |
| 2013 | 4 | 31  | 37.925 | 15.7  | 3.35   | 34  |
| 2013 | 5 | 34  | 41.55  | 3.35  | 432    | 9   |
| 2014 | 2 | 9   | 27.875 | 44.25 | 32.95  | 6   |
| 2014 | 3 | 6   | 32.8   | 32.95 | 17.5   | 29  |
| 2014 | 4 | 29  | 37.825 | 17.5  | 9.95   | 5   |
| 2014 | 5 | 5   | 39.6   | 9.95  | 84     | 1   |
| 2015 | 2 | 1   | 29.375 | 6.15  | 60.55  | 6   |
| 2015 | 3 | 6   | 32.8   | 60.55 | 26.1   | 5   |
| 2015 | 4 | 5   | 37.125 | 26.1  | 10.3   | 34  |
| 2015 | 5 | 34  | 41.05  | 10.3  | 232.1  | 0   |
| 2016 | 2 | 0   | 30.575 | 4     | 6.6    | 93  |
| 2016 | 3 | 93  | 35.3   | 6.6   | 0.8    | 160 |
| 2016 | 4 | 160 | 39.625 | 0.8   | 17.4   | 19  |
| 2016 | 5 | 19  | 40.95  | 17.4  | 168.65 | 0   |
| 2017 | 2 | 0   | 29.775 | 3.8   | 3.6    | 27  |
| 2017 | 3 | 27  | 34.2   | 3.6   | 0.4    | 135 |
| 2017 | 4 | 135 | 39.225 | 0.4   | 17.1   | 40  |
| 2017 | 5 | 40  | 41.25  | 17.1  | 168.75 | 0   |
| 2018 | 2 | 0   | 29.775 | 7.4   | 2.9    | 24  |
| 2018 | 3 | 24  | 34.8   | 2.9   | 16.75  | 73  |
| 2018 | 4 | 73  | 38.475 | 16.75 | 7.4    | 34  |
| 2018 | 5 | 34  | 41.25  | 7.4   | 230.2  | 0   |
| 2019 | 2 | 0   | 28.975 | 4.5   | 1.35   | 10  |
| 2019 | 3 | 10  | 34     | 1.35  | 6.4    | 197 |
| 2019 | 4 | 197 | 39.425 | 6.4   | 6.05   | 70  |
| 2019 | 5 | 70  | 41.25  | 6.05  | 131.05 | 0   |
| 2020 | 2 | 0   | 28.425 | 3.3   | 33.6   | 3   |
| 2020 | 3 | 3   | 33.1   | 33.6  | 8.6    | 88  |
| 2020 | 4 | 88  | 38.325 | 8.6   | 8.55   | 25  |

|      |   |     |        |       |        |     |
|------|---|-----|--------|-------|--------|-----|
| 2020 | 5 | 25  | 40.65  | 8.55  | 161.35 | 0   |
| 2021 | 2 | 0   | 29.275 | 2.3   | 39.6   | 69  |
| 2021 | 3 | 69  | 34.85  | 39.6  | 3.65   | 176 |
| 2021 | 4 | 176 | 38.225 | 3.65  | 30.85  | 37  |
| 2021 | 5 | 37  | 39.05  | 30.85 | 155    | 37  |

#### Data for Spatial Analysis

| ID | slope       | dist_water | Fire_FS | dist_Roads | aquatic | dist_settlement | NPP      | road_density | X        | Y        |
|----|-------------|------------|---------|------------|---------|-----------------|----------|--------------|----------|----------|
| 0  | 319549.6652 | 0.00473    | 1       | 0.122544   | 0       | 0.000268        | 24842.4  | 0            | 78.38454 | 22.71148 |
| 1  | 307882.9915 | 0.012611   | 10      | 0.121514   | 0       | 0.000261        | 25432.1  | 0            | 78.39426 | 22.71164 |
| 2  | 282148.1414 | 0.022064   | 13      | 0.122019   | 0       | 0.001355        | 34553.8  | 0            | 78.40399 | 22.71179 |
| 3  | 341960.9345 | 0.039284   | 9       | 0.128128   | 0       | 0.000023        | 25067.8  | 0            | 78.4429  | 22.71242 |
| 4  | 315378.5441 | 0.041004   | 15      | 0.127276   | 0       | 0               | 28484.6  | 0            | 78.45263 | 22.71258 |
| 5  | 299584.2203 | 0.01435    | 12      | 0.115496   | 0       | 0.001249        | 40472.65 | 0            | 78.37498 | 22.70229 |
| 6  | 294739.1879 | 0.012524   | 2       | 0.113622   | 0       | 0.00007         | 33316.3  | 0            | 78.38471 | 22.70245 |
| 7  | 285421.8204 | 0.017155   | 8       | 0.112744   | 0       | 0.000012        | 33519.1  | 0            | 78.39443 | 22.70261 |
| 8  | 252734.8677 | 0.02481    | 15      | 0.112676   | 0       | 0.000119        | 28808.9  | 0            | 78.40416 | 22.70277 |
| 9  | 281855.798  | 0.032808   | 23      | 0.11342    | 0       | 0.00043         | 27927.9  | 0            | 78.41389 | 22.70293 |
| 10 | 295016.9537 | 0.032616   | 10      | 0.114961   | 0       | 0.000825        | 34838.95 | 0            | 78.42361 | 22.70308 |
| 11 | 330535.2774 | 0.030325   | 5       | 0.117552   | 0       | 0.001089        | 25267.4  | 0            | 78.43334 | 22.70324 |
| 12 | 391087.1054 | 0.030548   | 5       | 0.119513   | 0       | 0.00009         | 24792.4  | 0            | 78.44307 | 22.7034  |
| 13 | 382293.1249 | 0.032726   | 6       | 0.118518   | 0       | 0.000502        | 25804.7  | 0            | 78.4528  | 22.70355 |
| 14 | 311198.9674 | 0.037306   | 5       | 0.118179   | 0       | 0.000386        | 36723.75 | 0            | 78.46252 | 22.70371 |
| 15 | 306906.0186 | 0.022887   | 5       | 0.10583    | 0       | 0.001205        | 27381.05 | 0            | 78.37515 | 22.69327 |
| 16 | 282594.2798 | 0.021862   | 2       | 0.104138   | 0       | 0.000078        | 41621.05 | 0            | 78.38488 | 22.69343 |
| 17 | 245461.069  | 0.02481    | 5       | 0.103179   | 0       | 0               | 48159.15 | 0            | 78.39461 | 22.69359 |
| 18 | 261605.3714 | 0.02997    | 23      | 0.103902   | 0       | 0               | 41684.35 | 0            | 78.40433 | 22.69374 |
| 19 | 277611.3725 | 0.03087    | 14      | 0.104709   | 0       | 0.000035        | 39559    | 0            | 78.41406 | 22.6939  |
| 20 | 290757.7997 | 0.024937   | 8       | 0.106376   | 0       | 0.000089        | 44821.3  | 0            | 78.42378 | 22.69406 |

|    |             |          |    |          |          |          |          |   |          |          |
|----|-------------|----------|----|----------|----------|----------|----------|---|----------|----------|
| 21 | 343163.2015 | 0.021705 | 2  | 0.109341 | 0        | 0.001428 | 25227.65 | 0 | 78.43351 | 22.69422 |
| 22 | 306666.4237 | 0.021852 | 8  | 0.110901 | 0        | 0.001434 | 29077.95 | 0 | 78.44324 | 22.69437 |
| 23 | 298467.748  | 0.02481  | 2  | 0.109765 | 0        | 0.003452 | 43919.95 | 0 | 78.45296 | 22.69453 |
| 24 | 449171.8099 | 0.03083  | 2  | 0.109247 | 0        | 0.003951 | 33723.35 | 0 | 78.46269 | 22.69468 |
| 25 | 281067.5045 | 0.028    | 14 | 0.097182 | 0        | 0.001286 | 27210.75 | 0 | 78.37533 | 22.68424 |
| 26 | 324527.2411 | 0.028677 | 2  | 0.095461 | 0        | 0.000481 | 33544.8  | 0 | 78.38505 | 22.6844  |
| 27 | 272114.4812 | 0.031211 | 9  | 0.094414 | 0        | 0        | 28974.35 | 0 | 78.39478 | 22.68456 |
| 28 | 278514.855  | 0.032819 | 3  | 0.095131 | 0        | 0        | 27581.55 | 0 | 78.4045  | 22.68472 |
| 29 | 288547.4541 | 0.025619 | 8  | 0.096011 | 0        | 0.00007  | 34137.85 | 0 | 78.41423 | 22.68488 |
| 30 | 293330.7722 | 0.018169 | 3  | 0.097826 | 0        | 0.000028 | 28003.75 | 0 | 78.42395 | 22.68503 |
| 31 | 345050.7654 | 0.012922 | 4  | 0.100526 | 0        | 0.000828 | 40446.3  | 0 | 78.43368 | 22.68519 |
| 32 | 334558.6578 | 0.012505 | 0  | 0.10151  | 0        | 0.003116 | 58432.5  | 0 | 78.4434  | 22.68535 |
| 33 | 907898.5628 | 0.017459 | 1  | 0.100078 | 0        | 0.007203 | 66324.1  | 0 | 78.45313 | 22.6855  |
| 34 | 1155093.711 | 0.02519  | 3  | 0.100297 | 0        | 0.009941 | 53831.65 | 0 | 78.46285 | 22.68566 |
| 35 | 347872.1318 | 0.022076 | 1  | 0.086806 | 0        | 0.000743 | 27295.35 | 0 | 78.38522 | 22.67538 |
| 36 | 407412.5459 | 0.025619 | 4  | 0.085653 | 0        | 0.000448 | 30086.15 | 0 | 78.39495 | 22.67554 |
| 37 | 357074.8685 | 0.029521 | 7  | 0.085564 | 0        | 0.000715 | 32825.75 | 0 | 78.40467 | 22.6757  |
| 38 | 332402.0733 | 0.022094 | 1  | 0.086542 | 0        | 0.001053 | 42690.5  | 0 | 78.4144  | 22.67585 |
| 39 | 393498.9124 | 0.012922 | 1  | 0.088551 | 0        | 0.001328 | 31384.55 | 0 | 78.42412 | 22.67601 |
| 40 | 691913.5209 | 0.005446 | 1  | 0.092078 | 0.043313 | 0.001781 | 30035.9  | 0 | 78.43385 | 22.67617 |
| 41 | 1585261.073 | 0.005048 | 1  | 0.092749 | 0.035842 | 0.004986 | 43669.95 | 0 | 78.44357 | 22.67632 |
| 42 | 579783.2909 | 0.012415 | 1  | 0.09134  | 0        | 0.011527 | 36349.45 | 0 | 78.4533  | 22.67648 |
| 43 | 335565.0613 | 0.011282 | 7  | 0.079989 | 0        | 0        | 33786.05 | 0 | 78.36595 | 22.66604 |
| 44 | 340914.3209 | 0.010929 | 5  | 0.079049 | 0        | 0.00022  | 26704.3  | 0 | 78.37567 | 22.6662  |
| 45 | 353089.8541 | 0.012922 | 0  | 0.077397 | 0        | 0.001553 | 31745.25 | 0 | 78.38539 | 22.66635 |
| 46 | 320576.204  | 0.018345 | 1  | 0.07648  | 0        | 0.00223  | 31508.2  | 0 | 78.39512 | 22.66651 |
| 47 | 814896.6477 | 0.026083 | 1  | 0.076797 | 0        | 0.003342 | 44997.35 | 0 | 78.40484 | 22.66667 |
| 48 | 1978858.07  | 0.022201 | 1  | 0.077885 | 0        | 0.004614 | 33846.05 | 0 | 78.41457 | 22.66683 |
| 49 | 2162101.005 | 0.013018 | 1  | 0.080071 | 0        | 0.006155 | 30307.9  | 0 | 78.42429 | 22.66699 |
| 50 | 2332598.473 | 0.004247 | 1  | 0.084346 | 0.020767 | 0.007791 | 44105.35 | 0 | 78.43401 | 22.66714 |

|    |             |          |   |          |          |          |            |   |          |          |
|----|-------------|----------|---|----------|----------|----------|------------|---|----------|----------|
| 51 | 671372.3318 | 0.003222 | 0 | 0.08397  | 0.091394 | 0.010864 | 34168.65   | 0 | 78.44374 | 22.6673  |
| 52 | 560149.4958 | 0.01101  | 5 | 0.082592 | 0        | 0.016336 | 35391.6    | 0 | 78.45346 | 22.66745 |
| 53 | 300649.044  | 0.06335  | 0 | 0.100958 | 0        | 0.004601 | 45299      | 0 | 78.26889 | 22.65538 |
| 54 | 357943.5264 | 0.062376 | 3 | 0.096124 | 0        | 0.006371 | 36396.1    | 0 | 78.27861 | 22.65555 |
| 55 | 329486.5705 | 0.062274 | 3 | 0.091978 | 0        | 0.001167 | 35097.5    | 0 | 78.28834 | 22.65571 |
| 56 | 289501.9333 | 0.007402 | 2 | 0.072779 | 0        | 0.000134 | 24598.15   | 0 | 78.35639 | 22.65685 |
| 57 | 345326.3104 | 0.003145 | 0 | 0.071323 | 0.164186 | 0.000568 | 31767.05   | 0 | 78.36612 | 22.65701 |
| 58 | 348203.5098 | 0.002621 | 1 | 0.070336 | 0.180104 | 0.000981 | 26127.55   | 0 | 78.37584 | 22.65717 |
| 59 | 387930.1196 | 0.005635 | 0 | 0.068812 | 0.003791 | 0.002169 | 30137.3    | 0 | 78.38556 | 22.65733 |
| 60 | 447872.9551 | 0.014046 | 1 | 0.067769 | 0        | 0.004933 | 43333.7    | 0 | 78.39529 | 22.65749 |
| 61 | 1028678.412 | 0.022885 | 2 | 0.068035 | 0        | 0.007562 | 36322.35   | 0 | 78.40501 | 22.65765 |
| 62 | 3599036.499 | 0.02526  | 2 | 0.069165 | 0        | 0.00978  | 28578.15   | 0 | 78.41473 | 22.6578  |
| 63 | 1391967.612 | 0.017315 | 1 | 0.072263 | 0        | 0.013401 | 39767.9    | 0 | 78.42446 | 22.65796 |
| 64 | 608382.6037 | 0.011459 | 1 | 0.075668 | 0        | 0.016359 | 34681.25   | 0 | 78.43418 | 22.65812 |
| 65 | 638386.4769 | 0.010988 | 1 | 0.074612 | 0        | 0.019172 | 35823.4    | 0 | 78.44391 | 22.65827 |
| 66 | 546460.1511 | 0.015926 | 3 | 0.073058 | 0        | 0.021667 | 35191.45   | 0 | 78.45363 | 22.65843 |
| 67 | 367698.3645 | 0.054747 | 2 | 0.093623 | 0        | 0.0121   | 36775.3    | 0 | 78.26907 | 22.64636 |
| 68 | 322960.0256 | 0.053611 | 1 | 0.088494 | 0        | 0.010145 | 32887.45   | 0 | 78.27879 | 22.64653 |
| 69 | 373434.2759 | 0.053492 | 3 | 0.08397  | 0        | 0.002566 | 37376.65   | 0 | 78.28851 | 22.64669 |
| 70 | 247953.9684 | 0.001049 | 1 | 0.062691 | 0.495031 | 0.002836 | 3032154.2  | 0 | 78.36629 | 22.64799 |
| 71 | 213729.0238 | 0.000595 | 0 | 0.061579 | 0.526518 | 0.003608 | 6034370.05 | 0 | 78.37601 | 22.64815 |
| 72 | 385390.0551 | 0.003049 | 1 | 0.060284 | 0.052834 | 0.004113 | 33546.8    | 0 | 78.38574 | 22.64831 |
| 73 | 602469.2577 | 0.01205  | 0 | 0.058613 | 0.039476 | 0.006044 | 41178.85   | 0 | 78.39546 | 22.64846 |
| 74 | 711107.3547 | 0.022155 | 0 | 0.058383 | 0        | 0.012797 | 33019.5    | 0 | 78.40518 | 22.64862 |
| 75 | 1031854.175 | 0.029237 | 1 | 0.060387 | 0        | 0.017363 | 32749.3    | 0 | 78.4149  | 22.64878 |
| 76 | 656259.0663 | 0.024094 | 1 | 0.063621 | 0        | 0.020143 | 44510.7    | 0 | 78.42463 | 22.64894 |
| 77 | 1570676.645 | 0.019761 | 0 | 0.067687 | 0        | 0.022887 | 35262.3    | 0 | 78.43435 | 22.64909 |
| 78 | 1648147.342 | 0.019492 | 0 | 0.06609  | 0        | 0.022588 | 36341.85   | 0 | 78.44407 | 22.64925 |
| 79 | 461179.063  | 0.022746 | 1 | 0.064331 | 0        | 0.020165 | 45307.8    | 0 | 78.4538  | 22.6494  |
| 80 | 610598.4807 | 0.045597 | 0 | 0.086217 | 0        | 0.018869 | 32937.35   | 0 | 78.26925 | 22.63734 |

|     |             |          |   |          |          |          |          |   |          |          |
|-----|-------------|----------|---|----------|----------|----------|----------|---|----------|----------|
| 81  | 741164.483  | 0.043944 | 0 | 0.080259 | 0        | 0.012748 | 29415.45 | 0 | 78.27897 | 22.6375  |
| 82  | 843360.2565 | 0.044008 | 1 | 0.075092 | 0        | 0.005052 | 44603.75 | 0 | 78.28869 | 22.63767 |
| 83  | 404089.2767 | 0.003529 | 1 | 0.053329 | 0        | 0.005131 | 33206.85 | 0 | 78.36646 | 22.63896 |
| 84  | 590603.9396 | 0.00266  | 1 | 0.052018 | 0.081537 | 0.00615  | 33138.9  | 0 | 78.37618 | 22.63912 |
| 85  | 618800.8241 | 0.004798 | 0 | 0.051007 | 0.00261  | 0.008347 | 55419.4  | 0 | 78.38591 | 22.63928 |
| 86  | 763885.9343 | 0.014021 | 0 | 0.049634 | 0        | 0.01001  | 48115.45 | 0 | 78.39563 | 22.63944 |
| 87  | 1966381.129 | 0.023922 | 0 | 0.049979 | 0        | 0.015273 | 41904.35 | 0 | 78.40535 | 22.6396  |
| 88  | 1563185.693 | 0.032837 | 0 | 0.051842 | 0.004064 | 0.020734 | 50331.7  | 0 | 78.41507 | 22.63975 |
| 89  | 2466428.53  | 0.031401 | 0 | 0.055888 | 0        | 0.021951 | 29925.7  | 0 | 78.42479 | 22.63991 |
| 90  | 4039028.114 | 0.028359 | 2 | 0.05985  | 0        | 0.01908  | 30273.1  | 0 | 78.43452 | 22.64007 |
| 91  | 1994673.232 | 0.028171 | 1 | 0.057648 | 0        | 0.01487  | 37125.25 | 0 | 78.44424 | 22.64022 |
| 92  | 768094.9604 | 0.030524 | 0 | 0.055622 | 0.000703 | 0.012365 | 46768.1  | 0 | 78.45396 | 22.64038 |
| 93  | 424867.0907 | 0.035397 | 0 | 0.055146 | 0        | 0.010748 | 36555.45 | 0 | 78.46368 | 22.64053 |
| 94  | 467657.2584 | 0.041722 | 2 | 0.056124 | 0        | 0.010502 | 36258.75 | 0 | 78.47341 | 22.64069 |
| 95  | 493156.5884 | 0.046841 | 7 | 0.058327 | 0        | 0.011926 | 45492.15 | 0 | 78.48313 | 22.64084 |
| 96  | 727519.254  | 0.03697  | 0 | 0.079309 | 0        | 0.023035 | 36395.6  | 0 | 78.26943 | 22.62831 |
| 97  | 1362510.505 | 0.035401 | 0 | 0.072809 | 0        | 0.017233 | 34135.75 | 0 | 78.27915 | 22.62848 |
| 98  | 1725558.668 | 0.035129 | 0 | 0.067006 | 0        | 0.009481 | 41976.85 | 0 | 78.28887 | 22.62864 |
| 99  | 549395.9285 | 0.022031 | 0 | 0.052104 | 0        | 0.011018 | 43994.7  | 0 | 78.34719 | 22.62962 |
| 100 | 736402.1313 | 0.014992 | 0 | 0.047821 | 0        | 0.010666 | 30118    | 0 | 78.35691 | 22.62978 |
| 101 | 1245450.402 | 0.011298 | 0 | 0.044826 | 0        | 0.011492 | 30021.9  | 0 | 78.36663 | 22.62994 |
| 102 | 992450.4486 | 0.007939 | 0 | 0.04326  | 0        | 0.013366 | 41234.6  | 0 | 78.37636 | 22.6301  |
| 103 | 1063267.639 | 0.009456 | 0 | 0.042301 | 0        | 0.014551 | 28914.45 | 0 | 78.38608 | 22.63026 |
| 104 | 1254621.826 | 0.017816 | 0 | 0.041004 | 0        | 0.014861 | 28730.45 | 0 | 78.3958  | 22.63042 |
| 105 | 1819246.243 | 0.0268   | 0 | 0.04119  | 0        | 0.017163 | 30282    | 0 | 78.40552 | 22.63057 |
| 106 | 1415960.052 | 0.032859 | 0 | 0.043537 | 0        | 0.018286 | 45213.55 | 0 | 78.41524 | 22.63073 |
| 107 | 2182998.258 | 0.032724 | 0 | 0.047728 | 0        | 0.015351 | 42392.1  | 0 | 78.42496 | 22.63089 |
| 108 | 1298701.599 | 0.033499 | 0 | 0.051616 | 0        | 0.010845 | 53173.95 | 0 | 78.43468 | 22.63104 |
| 109 | 510785.2526 | 0.035812 | 0 | 0.048575 | 0        | 0.006623 | 72289.1  | 0 | 78.44441 | 22.6312  |
| 110 | 434022.3228 | 0.038759 | 0 | 0.046414 | 0        | 0.003672 | 51056.7  | 0 | 78.45413 | 22.63135 |

|     |             |          |   |          |          |          |          |   |          |          |
|-----|-------------|----------|---|----------|----------|----------|----------|---|----------|----------|
| 111 | 391440.0052 | 0.040958 | 1 | 0.046375 | 0        | 0.002469 | 51387.3  | 0 | 78.46385 | 22.63151 |
| 112 | 383163.5782 | 0.040605 | 0 | 0.047531 | 0        | 0.002496 | 43878.6  | 0 | 78.47357 | 22.63166 |
| 113 | 518538.0819 | 0.039925 | 0 | 0.049862 | 0        | 0.004179 | 33783.7  | 0 | 78.4833  | 22.63181 |
| 114 | 595932.9693 | 0.040387 | 1 | 0.053996 | 0        | 0.006752 | 32913.2  | 0 | 78.49302 | 22.63197 |
| 115 | 929717.7177 | 0.040957 | 2 | 0.059631 | 0        | 0.011724 | 34693.95 | 0 | 78.50274 | 22.63212 |
| 116 | 1487032.155 | 0.028784 | 0 | 0.072833 | 0        | 0.024419 | 34083.05 | 0 | 78.26961 | 22.61929 |
| 117 | 1691156.297 | 0.02646  | 0 | 0.065631 | 0        | 0.022802 | 45587.3  | 0 | 78.27932 | 22.61945 |
| 118 | 1436622.91  | 0.026347 | 1 | 0.059648 | 0        | 0.015842 | 34453.15 | 0 | 78.28904 | 22.61962 |
| 119 | 2018982.878 | 0.026661 | 0 | 0.054698 | 0        | 0.010766 | 34626.45 | 0 | 78.29876 | 22.61978 |
| 120 | 1546095.471 | 0.026387 | 0 | 0.051082 | 0        | 0.007403 | 41251.85 | 0 | 78.30848 | 22.61995 |
| 121 | 1748939.979 | 0.029124 | 1 | 0.047766 | 0        | 0.017015 | 35543.6  | 0 | 78.33765 | 22.62043 |
| 122 | 1776344.943 | 0.025229 | 0 | 0.044587 | 0        | 0.018433 | 38923    | 0 | 78.34737 | 22.62059 |
| 123 | 1372972.67  | 0.021622 | 0 | 0.03988  | 0        | 0.019198 | 29358    | 0 | 78.35709 | 22.62075 |
| 124 | 1421842.064 | 0.019403 | 0 | 0.036314 | 0        | 0.019015 | 33715.2  | 0 | 78.36681 | 22.62091 |
| 125 | 1234086.177 | 0.01571  | 0 | 0.03458  | 0        | 0.019351 | 37126.4  | 0 | 78.37653 | 22.62107 |
| 126 | 1120488.379 | 0.016818 | 0 | 0.033721 | 0        | 0.017135 | 31667.8  | 0 | 78.38625 | 22.62123 |
| 127 | 1613270.274 | 0.022236 | 0 | 0.031511 | 0        | 0.014896 | 29657.65 | 0 | 78.39597 | 22.62139 |
| 128 | 1726208.343 | 0.027693 | 0 | 0.031753 | 0        | 0.01351  | 38992.7  | 0 | 78.40569 | 22.62155 |
| 129 | 1322438.325 | 0.024913 | 0 | 0.034743 | 0        | 0.010662 | 34637    | 0 | 78.41541 | 22.62171 |
| 130 | 939841.0781 | 0.023969 | 0 | 0.040281 | 0        | 0.007863 | 36190.65 | 0 | 78.42513 | 22.62186 |
| 131 | 519096.7733 | 0.026239 | 0 | 0.044431 | 0        | 0.003763 | 42668.35 | 0 | 78.43485 | 22.62202 |
| 132 | 413533.2204 | 0.031282 | 0 | 0.040459 | 0        | 0.000967 | 30253.45 | 0 | 78.44457 | 22.62217 |
| 133 | 390815.0134 | 0.036218 | 2 | 0.037782 | 0        | 0.000028 | 29003.8  | 0 | 78.4543  | 22.62233 |
| 134 | 358822.2347 | 0.034738 | 0 | 0.037609 | 0.000301 | 0        | 32413.25 | 0 | 78.46402 | 22.62248 |
| 135 | 389563.7025 | 0.032072 | 0 | 0.038976 | 0.002467 | 0.000209 | 56166.1  | 0 | 78.47374 | 22.62264 |
| 136 | 472444.1176 | 0.031046 | 1 | 0.041664 | 0        | 0.000743 | 46546.15 | 0 | 78.48346 | 22.62279 |
| 137 | 577956.6722 | 0.031312 | 0 | 0.046395 | 0.003043 | 0.001827 | 47284    | 0 | 78.49318 | 22.62294 |
| 138 | 1224323.083 | 0.031233 | 0 | 0.05212  | 0.002925 | 0.005584 | 67034.4  | 0 | 78.5029  | 22.62309 |
| 139 | 1400924.573 | 0.019699 | 1 | 0.066327 | 0        | 0.026814 | 60996.75 | 0 | 78.26978 | 22.61027 |
| 140 | 978706.6126 | 0.016945 | 1 | 0.058873 | 0        | 0.024865 | 63551.25 | 0 | 78.2795  | 22.61043 |

|     |             |          |   |          |          |          |          |   |          |          |
|-----|-------------|----------|---|----------|----------|----------|----------|---|----------|----------|
| 141 | 1030525.689 | 0.017001 | 0 | 0.052424 | 0        | 0.019588 | 52987.45 | 0 | 78.28922 | 22.6106  |
| 142 | 714298.114  | 0.018033 | 1 | 0.047041 | 0        | 0.016431 | 43787.9  | 0 | 78.29894 | 22.61076 |
| 143 | 871093.6949 | 0.017626 | 1 | 0.042788 | 0        | 0.014289 | 45386.8  | 0 | 78.30866 | 22.61092 |
| 144 | 1232876.273 | 0.02331  | 0 | 0.03973  | 0        | 0.017847 | 29958.65 | 0 | 78.3281  | 22.61125 |
| 145 | 1906767.055 | 0.02113  | 1 | 0.039123 | 0        | 0.022088 | 40006.3  | 0 | 78.33782 | 22.61141 |
| 146 | 1600806.975 | 0.01781  | 0 | 0.036862 | 0        | 0.021896 | 29233.55 | 0 | 78.34754 | 22.61157 |
| 147 | 809260.6845 | 0.016621 | 0 | 0.0318   | 0        | 0.021527 | 31803.75 | 0 | 78.35726 | 22.61173 |
| 148 | 1040336.241 | 0.018061 | 0 | 0.027308 | 0        | 0.020835 | 36869.05 | 0 | 78.36698 | 22.61189 |
| 149 | 913999.015  | 0.014882 | 0 | 0.024879 | 0        | 0.016843 | 31047.7  | 0 | 78.3767  | 22.61205 |
| 150 | 1360121.791 | 0.014338 | 0 | 0.024924 | 0        | 0.01159  | 28653.35 | 0 | 78.38642 | 22.61221 |
| 151 | 885563.9461 | 0.018862 | 0 | 0.022871 | 0        | 0.006915 | 30938.75 | 0 | 78.39614 | 22.61237 |
| 152 | 727526.2596 | 0.022443 | 0 | 0.023201 | 0        | 0.005106 | 41053.5  | 0 | 78.40586 | 22.61252 |
| 153 | 428324.9811 | 0.017043 | 0 | 0.027139 | 0.003181 | 0.002865 | 35172.1  | 0 | 78.41558 | 22.61268 |
| 154 | 410381.7792 | 0.015325 | 0 | 0.033996 | 0        | 0.002588 | 42382.2  | 0 | 78.4253  | 22.61284 |
| 155 | 442893.558  | 0.018582 | 0 | 0.037886 | 0        | 0.00115  | 33398.1  | 0 | 78.43502 | 22.61299 |
| 156 | 405884.6592 | 0.0252   | 1 | 0.032701 | 0.00588  | 0.000094 | 29304    | 0 | 78.44474 | 22.61315 |
| 157 | 452315.4188 | 0.028084 | 0 | 0.028982 | 0.002191 | 0        | 28848.65 | 0 | 78.45446 | 22.6133  |
| 158 | 448348.1461 | 0.025384 | 0 | 0.02797  | 0.000064 | 0        | 36270.65 | 0 | 78.46418 | 22.61346 |
| 159 | 436099.6566 | 0.022751 | 0 | 0.029997 | 0        | 0        | 30201.85 | 0 | 78.4739  | 22.61361 |
| 160 | 365421.29   | 0.02167  | 1 | 0.033359 | 0        | 0        | 28910.3  | 0 | 78.48362 | 22.61376 |
| 161 | 374330.7843 | 0.02245  | 0 | 0.039236 | 0        | 0.000076 | 36016    | 0 | 78.49334 | 22.61392 |
| 162 | 383371.9026 | 0.022488 | 0 | 0.045746 | 0        | 0.001333 | 29746    | 0 | 78.50307 | 22.61407 |
| 163 | 1045991.036 | 0.012209 | 5 | 0.061542 | 0        | 0.027129 | 34334.8  | 0 | 78.26996 | 22.60124 |
| 164 | 1204826.576 | 0.00835  | 2 | 0.053427 | 0        | 0.02233  | 32873.55 | 0 | 78.27968 | 22.60141 |
| 165 | 1126951.784 | 0.008283 | 1 | 0.045948 | 0        | 0.016281 | 35810.8  | 0 | 78.2894  | 22.60157 |
| 166 | 998775.4114 | 0.009592 | 0 | 0.039869 | 0        | 0.013627 | 47556.2  | 0 | 78.29912 | 22.60174 |
| 167 | 1415597.082 | 0.008911 | 0 | 0.034743 | 0        | 0.012029 | 52825.45 | 0 | 78.30884 | 22.6019  |
| 168 | 1495533.959 | 0.010738 | 1 | 0.031753 | 0        | 0.013099 | 52062.45 | 0 | 78.31855 | 22.60206 |
| 169 | 1452732.111 | 0.016262 | 0 | 0.030442 | 0        | 0.017883 | 64040.2  | 0 | 78.32827 | 22.60222 |
| 170 | 1501668.884 | 0.012868 | 0 | 0.029547 | 0        | 0.020622 | 41284.35 | 0 | 78.33799 | 22.60238 |

|     |             |          |   |          |          |          |          |           |          |          |
|-----|-------------|----------|---|----------|----------|----------|----------|-----------|----------|----------|
| 171 | 1885035.26  | 0.008405 | 0 | 0.027928 | 0        | 0.018898 | 31563    | 0         | 78.34771 | 22.60255 |
| 172 | 1914817.766 | 0.008264 | 0 | 0.024273 | 0        | 0.017669 | 36058.6  | 0         | 78.35743 | 22.60271 |
| 173 | 2063505.323 | 0.010336 | 0 | 0.018982 | 0        | 0.01582  | 30820.3  | 0.46762   | 78.36715 | 22.60287 |
| 174 | 917718.9069 | 0.006872 | 0 | 0.016168 | 0        | 0.009634 | 31045.15 | 4.451993  | 78.37687 | 22.60303 |
| 175 | 513727.4825 | 0.006349 | 0 | 0.016724 | 0        | 0.005173 | 33555    | 3.069339  | 78.38659 | 22.60318 |
| 176 | 486907.5709 | 0.012779 | 1 | 0.014413 | 0        | 0.001172 | 38871.15 | 1.669876  | 78.39631 | 22.60334 |
| 177 | 477730.3148 | 0.016832 | 0 | 0.014933 | 0        | 0.000273 | 32279.3  | 1.730582  | 78.40603 | 22.6035  |
| 178 | 502861.6491 | 0.010387 | 0 | 0.020537 | 0        | 0.000347 | 32244.7  | 0         | 78.41575 | 22.60366 |
| 179 | 539071.2417 | 0.006364 | 0 | 0.028359 | 0.001077 | 0.000541 | 39243.8  | 0         | 78.42547 | 22.60381 |
| 180 | 538518.8028 | 0.012104 | 0 | 0.031858 | 0.000003 | 0.000717 | 30699.7  | 0         | 78.43519 | 22.60397 |
| 181 | 516232.3661 | 0.019648 | 0 | 0.025015 | 0.007283 | 0.000184 | 29856    | 0         | 78.44491 | 22.60412 |
| 182 | 631763.3088 | 0.019317 | 0 | 0.020324 | 0.005037 | 0        | 36287.15 | 0         | 78.45463 | 22.60428 |
| 183 | 1321805.187 | 0.006007 | 2 | 0.057736 | 0.00249  | 0.021253 | 35851.05 | 0         | 78.27014 | 22.59222 |
| 184 | 1364765.224 | 0.002226 | 0 | 0.048993 | 0.083742 | 0.019937 | 33545.7  | 0         | 78.27986 | 22.59238 |
| 185 | 1446245.847 | 0.002388 | 0 | 0.040629 | 0.033434 | 0.014048 | 40897.2  | 0         | 78.28958 | 22.59255 |
| 186 | 1255421.249 | 0.002112 | 0 | 0.032934 | 0.051733 | 0.010009 | 33499.65 | 0         | 78.29929 | 22.59271 |
| 187 | 766440.6686 | 0.002012 | 0 | 0.0265   | 0.074338 | 0.009223 | 31422.7  | 0         | 78.30901 | 22.59287 |
| 188 | 1470020.418 | 0.003953 | 1 | 0.022713 | 0.004135 | 0.011059 | 38859.15 | 0         | 78.31873 | 22.59304 |
| 189 | 2193202.527 | 0.009951 | 0 | 0.02183  | 0        | 0.016985 | 29452.65 | 0         | 78.32845 | 22.5932  |
| 190 | 2641035.551 | 0.005768 | 0 | 0.020673 | 0.007353 | 0.019408 | 39797.05 | 0         | 78.33817 | 22.59336 |
| 191 | 1012069.978 | 0.001963 | 0 | 0.020136 | 0.059464 | 0.015622 | 49890.1  | 0         | 78.34788 | 22.59352 |
| 192 | 634873.8441 | 0.001879 | 0 | 0.016335 | 0.044983 | 0.012451 | 57249.3  | 3.871145  | 78.3576  | 22.59368 |
| 193 | 861154.0235 | 0.003713 | 0 | 0.01159  | 0.032613 | 0.010989 | 50799.25 | 23.393212 | 78.36732 | 22.59384 |
| 194 | 783692.7997 | 0.002248 | 0 | 0.007624 | 0.091475 | 0.004455 | 50565    | 34.832443 | 78.37704 | 22.594   |
| 195 | 553586.7515 | 0.002188 | 0 | 0.008559 | 0.071328 | 0.002411 | 49067.2  | 32.624719 | 78.38676 | 22.59416 |
| 196 | 385383.5761 | 0.006076 | 0 | 0.006292 | 0        | 0.001217 | 31959.8  | 22.986892 | 78.39648 | 22.59432 |
| 197 | 409454.3947 | 0.009073 | 0 | 0.007407 | 0        | 0.000035 | 29446.3  | 20.358565 | 78.4062  | 22.59447 |
| 198 | 410531.5846 | 0.006021 | 0 | 0.015646 | 0        | 0.000099 | 38266.8  | 4.454694  | 78.41592 | 22.59463 |
| 199 | 420253.2019 | 0.002716 | 0 | 0.02427  | 0        | 0        | 28659.6  | 0         | 78.42564 | 22.59479 |
| 200 | 473208.4759 | 0.010289 | 0 | 0.027572 | 0        | 0        | 28996.45 | 0         | 78.43535 | 22.59494 |

|     |             |          |   |          |          |          |            |           |          |          |
|-----|-------------|----------|---|----------|----------|----------|------------|-----------|----------|----------|
| 201 | 532712.8485 | 0.006043 | 2 | 0.013498 | 0        | 0.000567 | 32948.1    | 12.511025 | 78.47423 | 22.59556 |
| 202 | 658251.2018 | 0.003992 | 0 | 0.019249 | 0.037549 | 0.000755 | 37458.9    | 0.847377  | 78.48395 | 22.59571 |
| 203 | 631311.0601 | 0.004553 | 0 | 0.026198 | 0.00703  | 0.000829 | 30336.55   | 0         | 78.49367 | 22.59586 |
| 204 | 1207355.971 | 0.000479 | 0 | 0.071323 | 0.645779 | 0.022893 | 4301521.1  | 0         | 78.02742 | 22.57888 |
| 205 | 1232143.304 | 0.000745 | 0 | 0.07354  | 0.576113 | 0.019696 | 3094866.35 | 0         | 78.03713 | 22.57906 |
| 206 | 0           | 0        | 0 | 0.077377 | 0.999884 | 0.012946 | 0          | 0         | 78.04685 | 22.57924 |
| 207 | 1132786.464 | 0.002554 | 4 | 0.054884 | 0.049735 | 0.014099 | 334420.15  | 0         | 78.27032 | 22.58319 |
| 208 | 1334700.996 | 0.00567  | 1 | 0.045597 | 0.001025 | 0.016426 | 33871.9    | 0         | 78.28003 | 22.58336 |
| 209 | 1825088.329 | 0.009421 | 0 | 0.036808 | 0        | 0.014217 | 43722.7    | 0         | 78.28975 | 22.58352 |
| 210 | 723256.5108 | 0.00674  | 0 | 0.027953 | 0.005032 | 0.010727 | 32939.05   | 0         | 78.29947 | 22.58369 |
| 211 | 435228.881  | 0.006901 | 0 | 0.019984 | 0.000842 | 0.010546 | 29025.2    | 0.076685  | 78.30919 | 22.58385 |
| 212 | 649824.9096 | 0.002167 | 0 | 0.014272 | 0.101101 | 0.011879 | 34485.8    | 4.869129  | 78.3189  | 22.58401 |
| 213 | 641439.5192 | 0.002905 | 0 | 0.013174 | 0.053682 | 0.018013 | 32986.6    | 15.153933 | 78.32862 | 22.58418 |
| 214 | 914817.8748 | 0.002222 | 0 | 0.011976 | 0.060649 | 0.021431 | 32757.75   | 22.861715 | 78.33834 | 22.58434 |
| 215 | 851848.7101 | 0.006862 | 0 | 0.011935 | 0        | 0.016487 | 40581.9    | 28.005377 | 78.34806 | 22.5845  |
| 216 | 911147.9777 | 0.004764 | 0 | 0.008157 | 0.018526 | 0.011914 | 32827.1    | 38.477401 | 78.35778 | 22.58466 |
| 217 | 655448.7546 | 0.004573 | 1 | 0.004257 | 0.062282 | 0.007454 | 33860.35   | 46.459665 | 78.36749 | 22.58482 |
| 218 | 510795.538  | 0.00845  | 0 | 0.002064 | 0.001284 | 0.00447  | 40165.6    | 58.33715  | 78.37721 | 22.58498 |
| 219 | 863492.6578 | 0.006527 | 0 | 0.00267  | 0.004041 | 0.003763 | 48962.4    | 64.094615 | 78.38693 | 22.58513 |
| 220 | 847714.0537 | 0.001698 | 0 | 0.003994 | 0.057514 | 0.001774 | 47302.95   | 84.712662 | 78.39665 | 22.58529 |
| 221 | 554837.5219 | 0.002219 | 1 | 0.003951 | 0.015212 | 0.000488 | 47157.7    | 59.844631 | 78.40637 | 22.58545 |
| 222 | 640655.9572 | 0.00195  | 0 | 0.011428 | 0.044452 | 0.000627 | 53966.65   | 27.683605 | 78.41608 | 22.58561 |
| 223 | 597433.4646 | 0.004622 | 0 | 0.019888 | 0.00863  | 0.00005  | 39384.7    | 0         | 78.4258  | 22.58576 |
| 224 | 429802.1477 | 0.004998 | 5 | 0.01587  | 0.009212 | 0.000366 | 40229.75   | 0.380434  | 78.44524 | 22.58607 |
| 225 | 533699.8419 | 0.002643 | 0 | 0.006364 | 0.056344 | 0.000059 | 33210.7    | 12.370455 | 78.45496 | 22.58623 |
| 226 | 727777.0147 | 0.002226 | 0 | 0.002469 | 0.047341 | 0.000713 | 33481.45   | 27.77107  | 78.46468 | 22.58638 |
| 227 | 689934.123  | 0.003073 | 4 | 0.00588  | 0.085929 | 0.000867 | 40396.55   | 34.029355 | 78.4744  | 22.58653 |
| 228 | 668745.0252 | 0.004483 | 2 | 0.012953 | 0.007318 | 0.000577 | 32658.3    | 14.123971 | 78.48412 | 22.58669 |
| 229 | 630931.8615 | 0.003213 | 7 | 0.021349 | 0.051993 | 0.002367 | 33290.3    | 0         | 78.49384 | 22.58684 |
| 230 | 715149.2571 | 0.001763 | 0 | 0.028923 | 0.079823 | 0.001798 | 30916.8    | 0         | 78.50355 | 22.58699 |

|     |             |          |   |          |          |          |            |           |          |          |
|-----|-------------|----------|---|----------|----------|----------|------------|-----------|----------|----------|
| 231 | 1718988.365 | 0.000771 | 1 | 0.061354 | 0.405816 | 0.030953 | 21765.5    | 0         | 78.0179  | 22.56968 |
| 232 | 1526268.716 | 0.000942 | 0 | 0.062691 | 0.454259 | 0.026363 | 2875731.15 | 0         | 78.02761 | 22.56986 |
| 233 | 0           | 0        | 0 | 0.065203 | 0.80588  | 0.019536 | 0          | 0         | 78.03733 | 22.57004 |
| 234 | 241279.0949 | 0.001326 | 0 | 0.068965 | 0.774768 | 0.01252  | 0          | 0         | 78.04704 | 22.57022 |
| 235 | 154609.4156 | 0.000639 | 0 | 0.100213 | 0.694402 | 0.004677 | 3092302.15 | 0         | 78.09561 | 22.5711  |
| 236 | 159257.9822 | 0.000912 | 0 | 0.102353 | 0.697523 | 0.004237 | 3017124.5  | 0         | 78.10533 | 22.57128 |
| 237 | 0           | 0        | 0 | 0.104407 | 0.811824 | 0.006705 | 0          | 0         | 78.11504 | 22.57145 |
| 238 | 262464.4452 | 0.00071  | 0 | 0.107084 | 0.703289 | 0.007216 | 4527732.7  | 0         | 78.12476 | 22.57163 |
| 239 | 0           | 0        | 0 | 0.110528 | 0.969669 | 0.005858 | 0          | 0         | 78.13447 | 22.5718  |
| 240 | 322283.0707 | 0.000621 | 0 | 0.114672 | 0.702413 | 0.002949 | 4520690.45 | 0         | 78.14419 | 22.57197 |
| 241 | 0           | 0        | 0 | 0.118363 | 0.957814 | 0.006474 | 0          | 0         | 78.1539  | 22.57215 |
| 242 | 1156548.181 | 0.001895 | 0 | 0.063194 | 0.111409 | 0.010324 | 326457.4   | 0         | 78.26078 | 22.57401 |
| 243 | 1476366.378 | 0.003458 | 1 | 0.053635 | 0.029421 | 0.0091   | 25564.8    | 0         | 78.2705  | 22.57417 |
| 244 | 1660870.204 | 0.009829 | 0 | 0.044085 | 0        | 0.010983 | 42929.25   | 0         | 78.28021 | 22.57434 |
| 245 | 974541.4253 | 0.016149 | 0 | 0.034452 | 0        | 0.012378 | 35401.15   | 0         | 78.28993 | 22.5745  |
| 246 | 476859.8461 | 0.015313 | 0 | 0.025219 | 0        | 0.011133 | 32654.25   | 0         | 78.29965 | 22.57466 |
| 247 | 550305.8908 | 0.013401 | 0 | 0.015454 | 0.011538 | 0.01254  | 37823.15   | 1.435258  | 78.30936 | 22.57483 |
| 248 | 733620.0007 | 0.007639 | 0 | 0.006697 | 0        | 0.016103 | 30757.1    | 14.498619 | 78.31908 | 22.57499 |
| 249 | 1064072.071 | 0.007185 | 0 | 0.003807 | 0        | 0.020566 | 28408.05   | 30.298705 | 78.3288  | 22.57515 |
| 250 | 1390828.187 | 0.008432 | 0 | 0.002883 | 0        | 0.020788 | 32477      | 45.131624 | 78.33851 | 22.57531 |
| 251 | 1447984.095 | 0.013126 | 1 | 0.003141 | 0        | 0.019219 | 38465.6    | 49.305413 | 78.34823 | 22.57547 |
| 252 | 860423.1022 | 0.013008 | 1 | 0.002306 | 0        | 0.013389 | 35214.45   | 50.050711 | 78.35795 | 22.57563 |
| 253 | 805362.964  | 0.013008 | 0 | 0.002825 | 0        | 0.007734 | 32877.9    | 46.958462 | 78.36767 | 22.57579 |
| 254 | 883604.0544 | 0.015919 | 0 | 0.005891 | 0        | 0.007665 | 42727.3    | 56.199829 | 78.37738 | 22.57595 |
| 255 | 748963.4532 | 0.011881 | 0 | 0.002062 | 0        | 0.005538 | 34674.8    | 57.932284 | 78.3871  | 22.57611 |
| 256 | 448135.7225 | 0.006144 | 2 | 0.00265  | 0        | 0.002551 | 32528.35   | 86.297935 | 78.39682 | 22.57627 |
| 257 | 442831.9839 | 0.006345 | 1 | 0.001211 | 0.000135 | 0.00222  | 39241.85   | 64.368033 | 78.40654 | 22.57643 |
| 258 | 619860.5449 | 0.007351 | 2 | 0.007904 | 0        | 0.002052 | 35117.6    | 34.538694 | 78.41625 | 22.57658 |
| 259 | 498019.0857 | 0.003341 | 2 | 0.017813 | 0.040914 | 0.001087 | 40275.15   | 0.483289  | 78.42597 | 22.57674 |
| 260 | 578362.4183 | 0.002932 | 9 | 0.024834 | 0.071208 | 0.001278 | 58017.45   | 0         | 78.43569 | 22.57689 |

|     |             |          |   |          |          |          |            |           |          |          |
|-----|-------------|----------|---|----------|----------|----------|------------|-----------|----------|----------|
| 261 | 559935.7741 | 0.00398  | 4 | 0.017753 | 0.076214 | 0.000905 | 57381.9    | 0         | 78.44541 | 22.57705 |
| 262 | 471688.1912 | 0.005987 | 0 | 0.009767 | 0.000413 | 0.000189 | 47009.35   | 8.547316  | 78.45513 | 22.5772  |
| 263 | 538547.8768 | 0.008609 | 0 | 0.005536 | 0        | 0.001457 | 50163.25   | 35.86661  | 78.46484 | 22.57736 |
| 264 | 541782.6617 | 0.010991 | 2 | 0.002086 | 0.000818 | 0.002056 | 42125.4    | 47.225782 | 78.47456 | 22.57751 |
| 265 | 417237.6338 | 0.00981  | 0 | 0.008721 | 0        | 0.001367 | 31965.85   | 36.555174 | 78.48428 | 22.57766 |
| 266 | 552478.763  | 0.003936 | 0 | 0.01603  | 0.025399 | 0.001167 | 32983.65   | 6.53961   | 78.494   | 22.57781 |
| 267 | 680818.5419 | 0.002327 | 1 | 0.02408  | 0.033292 | 0.00466  | 43720.65   | 0         | 78.50372 | 22.57797 |
| 268 | 540175.0728 | 0.002612 | 0 | 0.032935 | 0.000153 | 0.001854 | 33952.5    | 0         | 78.51344 | 22.57812 |
| 269 | 410458.4029 | 0.000971 | 0 | 0.067629 | 0.68447  | 0.00368  | 4295405.3  | 0         | 77.96953 | 22.55975 |
| 270 | 0           | 0        | 0 | 0.062088 | 0.802398 | 0.008214 | 0          | 0         | 77.97924 | 22.55993 |
| 271 | 2158128.002 | 0.001939 | 3 | 0.054604 | 0.235386 | 0.024365 | 1755670.1  | 0         | 77.99866 | 22.5603  |
| 272 | 825158.4743 | 0.000551 | 0 | 0.052461 | 0.736702 | 0.03025  | 5802367.45 | 0         | 78.00838 | 22.56048 |
| 273 | 1681599.115 | 0.000757 | 0 | 0.052022 | 0.33593  | 0.0332   | 3190617.95 | 0         | 78.01809 | 22.56066 |
| 274 | 1494648.184 | 0.0012   | 0 | 0.053329 | 0.244498 | 0.027641 | 1598652.45 | 0         | 78.02781 | 22.56084 |
| 275 | 325144.2089 | 0.002367 | 0 | 0.05626  | 0.650414 | 0.019186 | 2943087.45 | 0         | 78.03752 | 22.56102 |
| 276 | 0           | 0        | 0 | 0.061061 | 0.832082 | 0.013948 | 0          | 0         | 78.04723 | 22.5612  |
| 277 | 173976.1306 | 0.00127  | 0 | 0.073147 | 0.764623 | 0.006115 | 0          | 0         | 78.06666 | 22.56155 |
| 278 | 0           | 0        | 0 | 0.081377 | 0.984114 | 0.008651 | 0          | 0         | 78.07637 | 22.56173 |
| 279 | 253381.0918 | 0.001049 | 0 | 0.088551 | 0.779098 | 0.00975  | 0          | 0         | 78.08609 | 22.56191 |
| 280 | 413190.2667 | 0.001075 | 1 | 0.091789 | 0.605489 | 0.012804 | 3171683.75 | 0         | 78.0958  | 22.56208 |
| 281 | 730849.3963 | 0.001229 | 0 | 0.093099 | 0.265552 | 0.012747 | 1596049.75 | 0         | 78.10552 | 22.56226 |
| 282 | 990528.5102 | 0.001256 | 0 | 0.095131 | 0.324324 | 0.015149 | 1527674.8  | 0         | 78.11523 | 22.56243 |
| 283 | 878021.6974 | 0.00167  | 1 | 0.098061 | 0.08646  | 0.015925 | 97626.35   | 0         | 78.12495 | 22.56261 |
| 284 | 608300.1441 | 0.001437 | 0 | 0.102334 | 0.152492 | 0.012444 | 20298.6    | 0         | 78.13466 | 22.56278 |
| 285 | 845651.4773 | 0.001068 | 0 | 0.106983 | 0.233796 | 0.008976 | 28411.7    | 0         | 78.14437 | 22.56295 |
| 286 | 643059.6347 | 0.001131 | 0 | 0.110228 | 0.411251 | 0.012362 | 1447760.95 | 0         | 78.15409 | 22.56312 |
| 287 | 457729.3372 | 0.000823 | 0 | 0.108976 | 0.647572 | 0.012266 | 2943923.15 | 0         | 78.1638  | 22.5633  |
| 288 | 558272.8776 | 0.000551 | 0 | 0.108173 | 0.654241 | 0.012533 | 3019680.4  | 0         | 78.17352 | 22.56347 |
| 289 | 1073996.101 | 0.002043 | 0 | 0.108551 | 0.150629 | 0.014544 | 175563.2   | 0         | 78.21238 | 22.56415 |
| 290 | 1080192     | 0.001475 | 0 | 0.101864 | 0.213668 | 0.013793 | 32027.8    | 0         | 78.22209 | 22.56431 |

|     |             |          |   |          |          |          |          |           |          |          |
|-----|-------------|----------|---|----------|----------|----------|----------|-----------|----------|----------|
| 291 | 1379319.303 | 0.001206 | 0 | 0.092064 | 0.173194 | 0.015005 | 42158.85 | 0         | 78.23181 | 22.56448 |
| 292 | 1364274.985 | 0.001534 | 0 | 0.082512 | 0.206936 | 0.012338 | 45578.55 | 0         | 78.24153 | 22.56465 |
| 293 | 1147235.069 | 0.001625 | 0 | 0.07283  | 0.110945 | 0.007812 | 41701.4  | 0         | 78.25124 | 22.56482 |
| 294 | 1195918.603 | 0.004674 | 0 | 0.063378 | 0.164011 | 0.00468  | 33804.85 | 0         | 78.26096 | 22.56498 |
| 295 | 1864828.956 | 0.010663 | 0 | 0.053852 | 0.017844 | 0.007578 | 32333.7  | 0         | 78.27067 | 22.56515 |
| 296 | 815611.9243 | 0.015877 | 0 | 0.04435  | 0        | 0.008311 | 39990.45 | 0         | 78.28039 | 22.56531 |
| 297 | 515014.6632 | 0.022593 | 1 | 0.03489  | 0        | 0.008796 | 33634.1  | 0         | 78.29011 | 22.56548 |
| 298 | 1055999.39  | 0.024663 | 0 | 0.025022 | 0        | 0.010976 | 31473.95 | 0         | 78.29982 | 22.56564 |
| 299 | 833906.3462 | 0.019959 | 0 | 0.015164 | 0        | 0.013866 | 39990.9  | 0.824443  | 78.30954 | 22.5658  |
| 300 | 1301943.927 | 0.01632  | 0 | 0.006936 | 0        | 0.016097 | 32843.3  | 13.126492 | 78.31925 | 22.56597 |
| 301 | 1183677.841 | 0.015968 | 1 | 0.00479  | 0        | 0.018157 | 34235.55 | 28.291873 | 78.32897 | 22.56613 |
| 302 | 1314181.877 | 0.016682 | 0 | 0.00581  | 0        | 0.016098 | 40965.85 | 41.693371 | 78.33869 | 22.56629 |
| 303 | 1185811.965 | 0.020409 | 1 | 0.004948 | 0        | 0.017092 | 34172.55 | 41.267164 | 78.3484  | 22.56645 |
| 304 | 938323.8498 | 0.021695 | 0 | 0.00501  | 0        | 0.016369 | 32612.95 | 34.354717 | 78.35812 | 22.56661 |
| 305 | 825645.8208 | 0.021695 | 0 | 0.010124 | 0        | 0.013985 | 43808.05 | 22.407416 | 78.36784 | 22.56677 |
| 306 | 828907.6163 | 0.023104 | 0 | 0.012202 | 0        | 0.013509 | 35161.2  | 7.883902  | 78.37755 | 22.56693 |
| 307 | 781511.9395 | 0.018582 | 0 | 0.008039 | 0        | 0.010811 | 35990.85 | 25.639044 | 78.38727 | 22.56709 |
| 308 | 1027168.828 | 0.015368 | 1 | 0.00636  | 0        | 0.008849 | 33980.9  | 48.002441 | 78.39699 | 22.56724 |
| 309 | 1132038.013 | 0.015728 | 0 | 0.006302 | 0        | 0.007449 | 42713.85 | 43.3584   | 78.4067  | 22.5674  |
| 310 | 665791.2225 | 0.014503 | 2 | 0.010522 | 0        | 0.007486 | 37336.45 | 16.572926 | 78.41642 | 22.56756 |
| 311 | 733498.3934 | 0.011275 | 2 | 0.019581 | 0        | 0.00581  | 35592.05 | 0.083833  | 78.42614 | 22.56771 |
| 312 | 966210.7076 | 0.011197 | 3 | 0.027379 | 0        | 0.005683 | 44446    | 0         | 78.43586 | 22.56787 |
| 313 | 1153030.053 | 0.012301 | 0 | 0.02286  | 0        | 0.005617 | 37401.8  | 0         | 78.44557 | 22.56802 |
| 314 | 1045290.568 | 0.014223 | 2 | 0.016985 | 0        | 0.005209 | 36880.7  | 0         | 78.45529 | 22.56818 |
| 315 | 894222.0183 | 0.016957 | 0 | 0.011825 | 0        | 0.006153 | 44833.85 | 17.169004 | 78.46501 | 22.56833 |
| 316 | 707107.2306 | 0.016175 | 0 | 0.004436 | 0        | 0.005093 | 53542.05 | 49.148338 | 78.47473 | 22.56848 |
| 317 | 723614.5548 | 0.007511 | 1 | 0.00354  | 0        | 0.001754 | 50119.55 | 44.014927 | 78.48444 | 22.56864 |
| 318 | 867951.4315 | 0.001851 | 0 | 0.012229 | 0.078915 | 0.002247 | 56641.7  | 15.522281 | 78.49416 | 22.56879 |
| 319 | 512943.8052 | 0.007044 | 0 | 0.021695 | 0        | 0.006682 | 63105.15 | 0         | 78.50388 | 22.56894 |
| 320 | 517484.9603 | 0.005489 | 0 | 0.030918 | 0        | 0.008385 | 44594.2  | 0         | 78.5136  | 22.56909 |

|     |             |          |   |          |          |          |            |   |          |          |
|-----|-------------|----------|---|----------|----------|----------|------------|---|----------|----------|
| 321 | 756051.9403 | 0.002923 | 0 | 0.040383 | 0        | 0.007454 | 33836.15   | 0 | 78.52332 | 22.56924 |
| 322 | 0           | 0        | 0 | 0.067724 | 0.961477 | 0.007125 | 0          | 0 | 77.96001 | 22.55054 |
| 323 | 0           | 0        | 0 | 0.06103  | 1        | 0.011619 | 0          | 0 | 77.96972 | 22.55073 |
| 324 | 0           | 0        | 0 | 0.054837 | 0.955411 | 0.015147 | 0          | 0 | 77.97944 | 22.55091 |
| 325 | 0           | 0        | 0 | 0.045597 | 0.859758 | 0.027434 | 0          | 0 | 77.99886 | 22.55127 |
| 326 | 849028.426  | 0.001067 | 0 | 0.043007 | 0.539591 | 0.031937 | 3168453.05 | 0 | 78.00857 | 22.55146 |
| 327 | 1243702.698 | 0.001629 | 0 | 0.043265 | 0.090563 | 0.034996 | 176732.4   | 0 | 78.01829 | 22.55164 |
| 328 | 965755.0093 | 0.003552 | 0 | 0.044826 | 0.001965 | 0.030091 | 36469.95   | 0 | 78.028   | 22.55182 |
| 329 | 319837.4995 | 0.001121 | 0 | 0.048274 | 0.601144 | 0.022224 | 4304850.8  | 0 | 78.03771 | 22.55199 |
| 330 | 0           | 0        | 0 | 0.053877 | 0.822495 | 0.016664 | 0          | 0 | 78.04742 | 22.55217 |
| 331 | 0           | 0        | 0 | 0.060507 | 0.934544 | 0.01342  | 0          | 0 | 78.05714 | 22.55235 |
| 332 | 195832.6148 | 0.001412 | 2 | 0.067997 | 0.706955 | 0.012762 | 4669248.2  | 0 | 78.06685 | 22.55253 |
| 333 | 272687.0873 | 0.001631 | 0 | 0.075561 | 0.652794 | 0.014    | 4526262.65 | 0 | 78.07656 | 22.55271 |
| 334 | 852587.7205 | 0.004399 | 0 | 0.080463 | 0.039708 | 0.016024 | 252442.35  | 0 | 78.08628 | 22.55288 |
| 335 | 1153271.94  | 0.004054 | 0 | 0.082355 | 0        | 0.019514 | 29161.9    | 0 | 78.09599 | 22.55306 |
| 336 | 746792.8888 | 0.006185 | 0 | 0.08445  | 0        | 0.02173  | 26940.5    | 0 | 78.1057  | 22.55323 |
| 337 | 1232779.381 | 0.001422 | 0 | 0.086684 | 0.077968 | 0.02382  | 28951.25   | 0 | 78.11542 | 22.55341 |
| 338 | 1131677.214 | 0.001156 | 0 | 0.089889 | 0.149436 | 0.024143 | 24429.35   | 0 | 78.12513 | 22.55358 |
| 339 | 936700.6524 | 0.005188 | 0 | 0.094623 | 0        | 0.01981  | 27275.05   | 0 | 78.13485 | 22.55376 |
| 340 | 930839.3085 | 0.007251 | 0 | 0.09948  | 0        | 0.017972 | 40453.85   | 0 | 78.14456 | 22.55393 |
| 341 | 631962.8839 | 0.007311 | 1 | 0.10202  | 0        | 0.019811 | 33932.05   | 0 | 78.15427 | 22.5541  |
| 342 | 691169.3386 | 0.003273 | 0 | 0.099809 | 0.035008 | 0.020353 | 30067.45   | 0 | 78.16399 | 22.55427 |
| 343 | 573164.1126 | 0.000479 | 0 | 0.098573 | 0.575783 | 0.019932 | 1450026.95 | 0 | 78.1737  | 22.55444 |
| 344 | 701257.3649 | 0.000622 | 0 | 0.098342 | 0.307242 | 0.018845 | 95429.05   | 0 | 78.18342 | 22.55461 |
| 345 | 689734.4125 | 0.000588 | 1 | 0.099413 | 0.38871  | 0.015315 | 1448464.4  | 0 | 78.19313 | 22.55478 |
| 346 | 470661.5795 | 0.001325 | 0 | 0.100598 | 0.280179 | 0.011778 | 103675.35  | 0 | 78.20285 | 22.55495 |
| 347 | 572700.5694 | 0.002292 | 0 | 0.10066  | 0.22804  | 0.010863 | 26389.05   | 0 | 78.21256 | 22.55512 |
| 348 | 1125655.762 | 0.002277 | 0 | 0.10023  | 0.159602 | 0.012561 | 24225.75   | 0 | 78.22228 | 22.55529 |
| 349 | 1114702.631 | 0.004989 | 0 | 0.093099 | 0.000012 | 0.014495 | 28553.4    | 0 | 78.23199 | 22.55546 |
| 350 | 1142456.145 | 0.007362 | 0 | 0.083665 | 0.014188 | 0.010307 | 36573.95   | 0 | 78.24171 | 22.55563 |

|     |             |          |   |          |          |          |          |           |          |          |
|-----|-------------|----------|---|----------|----------|----------|----------|-----------|----------|----------|
| 351 | 917951.293  | 0.006394 | 0 | 0.07427  | 0.026036 | 0.005176 | 32177.6  | 0         | 78.25142 | 22.55579 |
| 352 | 946610.6454 | 0.009241 | 0 | 0.064928 | 0.00093  | 0.00402  | 38133.6  | 0         | 78.26114 | 22.55596 |
| 353 | 951369.3915 | 0.016883 | 0 | 0.055668 | 0        | 0.00592  | 60169.75 | 0         | 78.27085 | 22.55612 |
| 354 | 1228746.968 | 0.023188 | 0 | 0.046602 | 0        | 0.008496 | 48627.95 | 0         | 78.28057 | 22.55629 |
| 355 | 1064412.174 | 0.029378 | 0 | 0.036563 | 0        | 0.011119 | 46945.05 | 0         | 78.29028 | 22.55645 |
| 356 | 1775899.151 | 0.032158 | 0 | 0.027356 | 0        | 0.013752 | 46218.9  | 0         | 78.3     | 22.55662 |
| 357 | 1310763.613 | 0.027705 | 0 | 0.019927 | 0        | 0.016554 | 30004.95 | 0         | 78.30971 | 22.55678 |
| 358 | 864102.7621 | 0.024973 | 0 | 0.014469 | 0        | 0.018367 | 32097.25 | 1.185012  | 78.31943 | 22.55694 |
| 359 | 1448929.828 | 0.02475  | 0 | 0.013573 | 0        | 0.019067 | 34679.4  | 7.645485  | 78.32914 | 22.5571  |
| 360 | 897802.4819 | 0.025219 | 0 | 0.014262 | 0        | 0.016469 | 41345.75 | 7.967693  | 78.33886 | 22.55726 |
| 361 | 1038976.077 | 0.028254 | 0 | 0.013795 | 0        | 0.017389 | 35381.85 | 7.166122  | 78.34858 | 22.55742 |
| 362 | 945203.0028 | 0.031116 | 0 | 0.014041 | 0        | 0.019675 | 34921.35 | 4.297728  | 78.35829 | 22.55758 |
| 363 | 1051353.199 | 0.031233 | 0 | 0.017702 | 0        | 0.020041 | 40828.85 | 0.163915  | 78.36801 | 22.55774 |
| 364 | 1198033.284 | 0.031111 | 0 | 0.020167 | 0        | 0.020128 | 35789.4  | 0         | 78.37772 | 22.5579  |
| 365 | 1236307.316 | 0.026239 | 0 | 0.016363 | 0        | 0.018519 | 34143.55 | 0.655641  | 78.38744 | 22.55806 |
| 366 | 1239742.831 | 0.024175 | 0 | 0.014918 | 0        | 0.01753  | 42968.5  | 2.358184  | 78.39716 | 22.55822 |
| 367 | 1223016.09  | 0.024248 | 0 | 0.01457  | 0        | 0.016455 | 35920.85 | 1.743918  | 78.40687 | 22.55838 |
| 368 | 1215891.938 | 0.021999 | 1 | 0.017451 | 0        | 0.015681 | 37257.45 | 0.259102  | 78.41659 | 22.55853 |
| 369 | 1141602.115 | 0.020014 | 0 | 0.023766 | 0        | 0.014528 | 44158.15 | 0         | 78.42631 | 22.55869 |
| 370 | 1212917.476 | 0.01997  | 0 | 0.027622 | 0        | 0.013791 | 36155.6  | 0         | 78.43602 | 22.55884 |
| 371 | 1384873.393 | 0.021099 | 1 | 0.025928 | 0        | 0.014458 | 37312.5  | 0         | 78.44574 | 22.559   |
| 372 | 1077929.22  | 0.02325  | 0 | 0.021141 | 0        | 0.013094 | 36735.2  | 0         | 78.45546 | 22.55915 |
| 373 | 869115.6103 | 0.023877 | 0 | 0.015312 | 0        | 0.00641  | 43417.9  | 4.038368  | 78.46517 | 22.55931 |
| 374 | 958096.7055 | 0.018327 | 1 | 0.006556 | 0.009789 | 0.000867 | 33974.05 | 48.517225 | 78.47489 | 22.55946 |
| 375 | 473388.4249 | 0.010658 | 0 | 0.002977 | 0.00725  | 0.000014 | 32077.65 | 58.699805 | 78.48461 | 22.55961 |
| 376 | 584299.4215 | 0.00314  | 0 | 0.011734 | 0.022055 | 0.000409 | 39568.65 | 28.208109 | 78.49433 | 22.55976 |
| 377 | 861840.027  | 0.003694 | 0 | 0.019685 | 0.032852 | 0.005992 | 34365.85 | 0.149771  | 78.50404 | 22.55991 |
| 378 | 866962.2087 | 0.00817  | 3 | 0.028008 | 0        | 0.012997 | 42344.05 | 0         | 78.51376 | 22.56007 |
| 379 | 1020328.866 | 0.002144 | 0 | 0.037329 | 0        | 0.015155 | 63759.95 | 0         | 78.52348 | 22.56022 |
| 380 | 0           | 0        | 0 | 0.068019 | 0.971672 | 0.010611 | 0        | 0         | 77.9505  | 22.54134 |

|     |             |          |   |          |          |          |            |   |          |          |
|-----|-------------|----------|---|----------|----------|----------|------------|---|----------|----------|
| 381 | 0           | 0        | 0 | 0.061865 | 0.952608 | 0.01411  | 0          | 0 | 77.96021 | 22.54152 |
| 382 | 0           | 0        | 0 | 0.054369 | 1        | 0.019022 | 0          | 0 | 77.96992 | 22.54171 |
| 383 | 0           | 0        | 0 | 0.047662 | 0.961654 | 0.022928 | 0          | 0 | 77.97963 | 22.54189 |
| 384 | 294263.9037 | 0.001538 | 0 | 0.042153 | 0.726034 | 0.02702  | 6097752.6  | 0 | 77.98934 | 22.54207 |
| 385 | 0           | 0        | 0 | 0.037544 | 0.919843 | 0.031365 | 0          | 0 | 77.99906 | 22.54225 |
| 386 | 822718.2661 | 0.001665 | 0 | 0.0344   | 0.430105 | 0.035325 | 3175562.15 | 0 | 78.00877 | 22.54243 |
| 387 | 966593.0196 | 0.003343 | 0 | 0.034522 | 0.001106 | 0.038547 | 175022.15  | 0 | 78.01848 | 22.54261 |
| 388 | 640566.9826 | 0.005751 | 1 | 0.036462 | 0        | 0.034777 | 25245.45   | 0 | 78.02819 | 22.54279 |
| 389 | 463323.2818 | 0.000812 | 0 | 0.040728 | 0.342212 | 0.027768 | 23219.2    | 0 | 78.0379  | 22.54297 |
| 390 | 426669.7586 | 0.001407 | 0 | 0.047372 | 0.115928 | 0.02189  | 19466      | 0 | 78.04762 | 22.54315 |
| 391 | 537773.1057 | 0.001746 | 3 | 0.054558 | 0.150981 | 0.019582 | 22639.95   | 0 | 78.05733 | 22.54333 |
| 392 | 494783.1661 | 0.004531 | 0 | 0.062245 | 0        | 0.020378 | 35482.85   | 0 | 78.06704 | 22.54351 |
| 393 | 1072363.898 | 0.004352 | 0 | 0.069617 | 0.00174  | 0.021266 | 44498.8    | 0 | 78.07675 | 22.54368 |
| 394 | 1468373.466 | 0.009809 | 0 | 0.071928 | 0        | 0.024142 | 41434.1    | 0 | 78.08647 | 22.54386 |
| 395 | 2053257.549 | 0.011541 | 0 | 0.073677 | 0        | 0.027583 | 44284.7    | 0 | 78.09618 | 22.54404 |
| 396 | 1665275.473 | 0.01091  | 0 | 0.075833 | 0        | 0.029586 | 37522.95   | 0 | 78.10589 | 22.54421 |
| 397 | 1617484.146 | 0.00757  | 0 | 0.078314 | 0        | 0.031742 | 32131.05   | 0 | 78.11561 | 22.54439 |
| 398 | 1693899.958 | 0.00397  | 0 | 0.081848 | 0.006249 | 0.031438 | 29202.4    | 0 | 78.12532 | 22.54456 |
| 399 | 816061.0532 | 0.002547 | 0 | 0.086306 | 0        | 0.028381 | 37741.35   | 0 | 78.13503 | 22.54473 |
| 400 | 1219642.673 | 0.00926  | 0 | 0.091552 | 0.000068 | 0.027149 | 34053.9    | 0 | 78.14475 | 22.54491 |
| 401 | 1147205.138 | 0.009095 | 0 | 0.092798 | 0        | 0.028136 | 34297.65   | 0 | 78.15446 | 22.54508 |
| 402 | 800245.5611 | 0.001261 | 0 | 0.091264 | 0.198832 | 0.028804 | 26749.05   | 0 | 78.16417 | 22.54525 |
| 403 | 1087145.394 | 0.002391 | 0 | 0.089749 | 0.116645 | 0.028327 | 33583.2    | 0 | 78.17389 | 22.54542 |
| 404 | 900966.7852 | 0.003086 | 2 | 0.089455 | 0.010429 | 0.024899 | 30216.05   | 0 | 78.1836  | 22.54559 |
| 405 | 1430986.602 | 0.006094 | 2 | 0.090751 | 0        | 0.019876 | 30321.3    | 0 | 78.19331 | 22.54576 |
| 406 | 991716.2583 | 0.008028 | 0 | 0.091868 | 0.000821 | 0.016475 | 42882.1    | 0 | 78.20303 | 22.54593 |
| 407 | 1506251.576 | 0.010482 | 0 | 0.091884 | 0.000086 | 0.015696 | 33309.5    | 0 | 78.21274 | 22.5461  |
| 408 | 1315000.285 | 0.010694 | 0 | 0.092632 | 0        | 0.016579 | 30644.85   | 0 | 78.22246 | 22.54627 |
| 409 | 1246057.55  | 0.01286  | 0 | 0.092788 | 0        | 0.018042 | 38873      | 0 | 78.23217 | 22.54644 |
| 410 | 1281456.086 | 0.016617 | 0 | 0.085921 | 0.000722 | 0.014445 | 30972.6    | 0 | 78.24188 | 22.5466  |

|     |             |          |   |          |          |          |          |           |          |          |
|-----|-------------|----------|---|----------|----------|----------|----------|-----------|----------|----------|
| 411 | 2253257.77  | 0.015276 | 0 | 0.076882 | 0.001086 | 0.012027 | 31079.7  | 0         | 78.2516  | 22.54677 |
| 412 | 2386881.475 | 0.016284 | 0 | 0.067507 | 0        | 0.010832 | 38261.35 | 0         | 78.26131 | 22.54693 |
| 413 | 1061538.991 | 0.022441 | 0 | 0.058407 | 0        | 0.010704 | 33106.85 | 0         | 78.27103 | 22.5471  |
| 414 | 2073278.079 | 0.03014  | 0 | 0.048748 | 0        | 0.01549  | 31541.1  | 0         | 78.28074 | 22.54726 |
| 415 | 2010667.883 | 0.03639  | 0 | 0.040187 | 0        | 0.019119 | 33474.8  | 0         | 78.29046 | 22.54743 |
| 416 | 2360849.838 | 0.039495 | 0 | 0.032857 | 0        | 0.020497 | 45290.25 | 0         | 78.30017 | 22.54759 |
| 417 | 2815149.43  | 0.035969 | 0 | 0.026977 | 0        | 0.022557 | 42944.7  | 0         | 78.30989 | 22.54775 |
| 418 | 3248282.031 | 0.034417 | 1 | 0.023654 | 0        | 0.024416 | 45350.4  | 0         | 78.3196  | 22.54792 |
| 419 | 2652135.637 | 0.034331 | 0 | 0.023153 | 0        | 0.023977 | 59898.85 | 0         | 78.32932 | 22.54808 |
| 420 | 2548634.892 | 0.03467  | 1 | 0.023574 | 0        | 0.022562 | 41797.6  | 0         | 78.33903 | 22.54824 |
| 421 | 2386773.279 | 0.036376 | 0 | 0.022652 | 0        | 0.023194 | 37527.55 | 0         | 78.34875 | 22.5484  |
| 422 | 1809522.772 | 0.039581 | 0 | 0.022638 | 0        | 0.025553 | 43483.8  | 0         | 78.35846 | 22.54856 |
| 423 | 1620028.887 | 0.039994 | 0 | 0.025406 | 0        | 0.02711  | 37233.95 | 0         | 78.36818 | 22.54872 |
| 424 | 1953344.43  | 0.038618 | 1 | 0.027554 | 0        | 0.027428 | 32630.65 | 0         | 78.37789 | 22.54888 |
| 425 | 1571323.054 | 0.034526 | 0 | 0.025072 | 0        | 0.026994 | 33710.8  | 0         | 78.38761 | 22.54904 |
| 426 | 1852961.248 | 0.032609 | 1 | 0.023205 | 0        | 0.026131 | 46657.9  | 0         | 78.39733 | 22.54919 |
| 427 | 2027251.894 | 0.032948 | 1 | 0.023216 | 0        | 0.024378 | 33864.05 | 0         | 78.40704 | 22.54935 |
| 428 | 2961620.463 | 0.030939 | 2 | 0.023217 | 0        | 0.023241 | 34099.8  | 0         | 78.41676 | 22.54951 |
| 429 | 1880142.072 | 0.029576 | 2 | 0.021857 | 0        | 0.021338 | 38010.25 | 0         | 78.42647 | 22.54966 |
| 430 | 1654562.466 | 0.029547 | 1 | 0.018987 | 0        | 0.02048  | 36129.8  | 0         | 78.43619 | 22.54982 |
| 431 | 1682444.776 | 0.029887 | 0 | 0.018349 | 0        | 0.021335 | 37820.5  | 0.260742  | 78.44591 | 22.54997 |
| 432 | 1470984.618 | 0.027427 | 0 | 0.01434  | 0        | 0.016675 | 47066.95 | 12.109007 | 78.45562 | 22.55013 |
| 433 | 1381941.499 | 0.019967 | 3 | 0.010477 | 0        | 0.009141 | 37295.4  | 35.374313 | 78.46534 | 22.55028 |
| 434 | 1080952.541 | 0.013535 | 0 | 0.005831 | 0.001193 | 0.00441  | 35481.4  | 76.607343 | 78.47506 | 22.55043 |
| 435 | 932800.6146 | 0.010253 | 0 | 0.001851 | 0.002551 | 0.003946 | 40982.3  | 79.835917 | 78.48477 | 22.55059 |
| 436 | 1019797.414 | 0.004544 | 0 | 0.007053 | 0.015316 | 0.003982 | 32986.4  | 45.500176 | 78.49449 | 22.55074 |
| 437 | 921058.6751 | 0.004278 | 0 | 0.015405 | 0.017319 | 0.006682 | 33978.15 | 6.542088  | 78.5042  | 22.55089 |
| 438 | 594584.7768 | 0.01054  | 3 | 0.025287 | 0        | 0.013092 | 34788.65 | 0         | 78.51392 | 22.55104 |
| 439 | 515094.5236 | 0.006081 | 0 | 0.03489  | 0        | 0.019215 | 45047.6  | 0         | 78.52364 | 22.55119 |
| 440 | 512416.6435 | 0.002453 | 0 | 0.04435  | 0        | 0.018013 | 35814.55 | 0         | 78.53336 | 22.55134 |

|     |             |          |   |          |          |          |           |   |          |          |
|-----|-------------|----------|---|----------|----------|----------|-----------|---|----------|----------|
| 441 | 806954.5859 | 0.002244 | 0 | 0.053748 | 0        | 0.013829 | 35912.8   | 0 | 78.54307 | 22.55149 |
| 442 | 0           | 0        | 0 | 0.059367 | 1        | 0.014276 | 0         | 0 | 77.9507  | 22.53232 |
| 443 | 578908.9814 | 0.001303 | 0 | 0.056321 | 0.590102 | 0.019626 | 4596978.4 | 0 | 77.96041 | 22.5325  |
| 444 | 625494.534  | 0.001669 | 0 | 0.048996 | 0.54272  | 0.02319  | 4522990.7 | 0 | 77.97012 | 22.53268 |
| 445 | 0           | 0        | 0 | 0.041393 | 1        | 0.027396 | 0         | 0 | 77.97983 | 22.53287 |
| 446 | 0           | 0        | 0 | 0.035172 | 0.884584 | 0.031912 | 0         | 0 | 77.98954 | 22.53305 |
| 447 | 0           | 0        | 0 | 0.029722 | 0.826708 | 0.035076 | 0         | 0 | 77.99925 | 22.53323 |
| 448 | 729131.9208 | 0.000968 | 0 | 0.025917 | 0.301818 | 0.037972 | 1748600.9 | 0 | 78.00896 | 22.53341 |
| 449 | 616006.6539 | 0.001696 | 0 | 0.024941 | 0.037742 | 0.041316 | 97257.6   | 0 | 78.01867 | 22.53359 |
| 450 | 458132.8487 | 0.005021 | 0 | 0.028028 | 0        | 0.040068 | 23611.25  | 0 | 78.02839 | 22.53377 |
| 451 | 552282.5526 | 0.001837 | 6 | 0.034018 | 0.086657 | 0.034662 | 27841.75  | 0 | 78.0381  | 22.53395 |
| 452 | 819037.3022 | 0.002192 | 0 | 0.041596 | 0.030241 | 0.029388 | 22251.4   | 0 | 78.04781 | 22.53413 |
| 453 | 644516.1225 | 0.00742  | 0 | 0.049487 | 0        | 0.027612 | 28210.35  | 0 | 78.05752 | 22.53431 |
| 454 | 868036.3121 | 0.012189 | 1 | 0.057244 | 0        | 0.028398 | 38659.8   | 0 | 78.06723 | 22.53449 |
| 455 | 1545703.732 | 0.012321 | 0 | 0.061624 | 0        | 0.029991 | 32347.95  | 0 | 78.07694 | 22.53466 |
| 456 | 1482303.684 | 0.016068 | 0 | 0.063369 | 0        | 0.032628 | 30114.05  | 0 | 78.08666 | 22.53484 |
| 457 | 1359393.82  | 0.020031 | 0 | 0.064963 | 0        | 0.035851 | 37188.6   | 0 | 78.09637 | 22.53501 |
| 458 | 1987735.947 | 0.019021 | 0 | 0.06648  | 0        | 0.037716 | 52718.9   | 0 | 78.10608 | 22.53519 |
| 459 | 2249829.193 | 0.016085 | 0 | 0.069297 | 0        | 0.040264 | 48697.45  | 0 | 78.11579 | 22.53536 |
| 460 | 2248063.121 | 0.011376 | 0 | 0.07331  | 0        | 0.04001  | 44639.5   | 0 | 78.12551 | 22.53554 |
| 461 | 1331413.238 | 0.009718 | 0 | 0.078873 | 0        | 0.03713  | 49753     | 0 | 78.13522 | 22.53571 |
| 462 | 1171399.701 | 0.013362 | 0 | 0.084493 | 0        | 0.035322 | 31177.9   | 0 | 78.14493 | 22.53588 |
| 463 | 1725885.957 | 0.009948 | 2 | 0.084468 | 0.00935  | 0.03609  | 29169.05  | 0 | 78.15464 | 22.53606 |
| 464 | 790099.0359 | 0.00493  | 0 | 0.082407 | 0.000044 | 0.037061 | 38303.85  | 0 | 78.16436 | 22.53623 |
| 465 | 1491303.756 | 0.001041 | 0 | 0.081002 | 0.197704 | 0.035477 | 25617.95  | 0 | 78.17407 | 22.5364  |
| 466 | 1235726.493 | 0.00464  | 2 | 0.080676 | 0.032651 | 0.030699 | 28952.7   | 0 | 78.18378 | 22.53657 |
| 467 | 1147483.025 | 0.010312 | 0 | 0.081348 | 0        | 0.026905 | 39366.4   | 0 | 78.1935  | 22.53674 |
| 468 | 1206950.26  | 0.015236 | 0 | 0.082347 | 0        | 0.024238 | 33525.6   | 0 | 78.20321 | 22.53691 |
| 469 | 985097.6396 | 0.019575 | 0 | 0.082311 | 0        | 0.023061 | 32590.2   | 0 | 78.21292 | 22.53708 |
| 470 | 646820.0569 | 0.019492 | 0 | 0.083765 | 0        | 0.023489 | 32028.35  | 0 | 78.22264 | 22.53724 |

|     |             |          |   |          |          |          |          |           |          |          |
|-----|-------------|----------|---|----------|----------|----------|----------|-----------|----------|----------|
| 471 | 549781.6042 | 0.020639 | 0 | 0.085777 | 0        | 0.024296 | 43034.75 | 0         | 78.23235 | 22.53741 |
| 472 | 1249468.545 | 0.024717 | 0 | 0.086212 | 0        | 0.021495 | 34916.3  | 0         | 78.24206 | 22.53758 |
| 473 | 1491904.386 | 0.023769 | 0 | 0.079646 | 0.006119 | 0.020116 | 32436.5  | 0         | 78.25178 | 22.53775 |
| 474 | 1655369.397 | 0.024743 | 0 | 0.070699 | 0        | 0.019158 | 34603.1  | 0         | 78.26149 | 22.53791 |
| 475 | 1349799.184 | 0.02936  | 0 | 0.061586 | 0        | 0.01942  | 30798.2  | 0         | 78.27121 | 22.53808 |
| 476 | 2110008.847 | 0.036232 | 0 | 0.053567 | 0        | 0.023213 | 30239.75 | 0         | 78.28092 | 22.53824 |
| 477 | 2480075.495 | 0.043454 | 0 | 0.046373 | 0        | 0.027166 | 36545.55 | 0         | 78.29063 | 22.5384  |
| 478 | 3505667.21  | 0.047688 | 2 | 0.040187 | 0        | 0.028752 | 31119.95 | 0         | 78.30035 | 22.53857 |
| 479 | 1551602.53  | 0.045013 | 1 | 0.035386 | 0        | 0.030279 | 28760.7  | 0         | 78.31006 | 22.53873 |
| 480 | 1907050.524 | 0.043182 | 1 | 0.032299 | 0        | 0.031504 | 35749.15 | 0         | 78.31978 | 22.53889 |
| 481 | 2899115.464 | 0.043113 | 2 | 0.031935 | 0        | 0.030794 | 33123.25 | 0         | 78.32949 | 22.53905 |
| 482 | 2436962.207 | 0.043383 | 2 | 0.03224  | 0        | 0.029837 | 43377.55 | 0         | 78.33921 | 22.53922 |
| 483 | 2587745.891 | 0.044665 | 2 | 0.031338 | 0        | 0.029928 | 47317.85 | 0         | 78.34892 | 22.53938 |
| 484 | 1895248.405 | 0.047895 | 0 | 0.031342 | 0        | 0.031834 | 56612    | 0         | 78.35864 | 22.53954 |
| 485 | 1539971.366 | 0.048762 | 1 | 0.033471 | 0        | 0.032228 | 47624.1  | 0         | 78.36835 | 22.5397  |
| 486 | 1436407.674 | 0.046799 | 1 | 0.036021 | 0        | 0.031304 | 44930.85 | 0         | 78.37807 | 22.53985 |
| 487 | 1360039.396 | 0.043217 | 1 | 0.033969 | 0        | 0.029325 | 41625.3  | 0         | 78.38778 | 22.54001 |
| 488 | 1896448.455 | 0.04234  | 0 | 0.030849 | 0        | 0.028424 | 33587.05 | 0         | 78.3975  | 22.54017 |
| 489 | 1909042.851 | 0.04207  | 2 | 0.024561 | 0        | 0.02543  | 33081.8  | 0         | 78.40721 | 22.54033 |
| 490 | 4328804.528 | 0.039409 | 1 | 0.017914 | 0        | 0.021933 | 44660.8  | 1.479528  | 78.41693 | 22.54048 |
| 491 | 1832374.034 | 0.03835  | 0 | 0.013811 | 0        | 0.018982 | 32747.55 | 12.565205 | 78.42664 | 22.54064 |
| 492 | 2369275.366 | 0.037945 | 1 | 0.010515 | 0        | 0.01715  | 34915.5  | 25.575    | 78.43636 | 22.54079 |
| 493 | 2066987.753 | 0.034159 | 1 | 0.010155 | 0        | 0.018915 | 32968.4  | 36.263684 | 78.44607 | 22.54095 |
| 494 | 1163883.779 | 0.025219 | 0 | 0.00707  | 0        | 0.020398 | 47128.55 | 50.154049 | 78.45579 | 22.5411  |
| 495 | 1350691.351 | 0.015925 | 0 | 0.00289  | 0        | 0.015837 | 37251.3  | 56.700136 | 78.4655  | 22.54126 |
| 496 | 1532145.526 | 0.007306 | 0 | 0.00215  | 0        | 0.01336  | 36714.7  | 76.286098 | 78.47522 | 22.54141 |
| 497 | 3082693.112 | 0.00261  | 0 | 0.001691 | 0.000571 | 0.013027 | 44662.5  | 72.413118 | 78.48494 | 22.54156 |
| 498 | 2616933.752 | 0.002996 | 2 | 0.005872 | 0.038379 | 0.012835 | 36368.7  | 35.195555 | 78.49465 | 22.54171 |
| 499 | 1088032.229 | 0.008347 | 0 | 0.015426 | 0        | 0.014087 | 36629.7  | 4.204913  | 78.50437 | 22.54186 |
| 500 | 1239036.592 | 0.015613 | 0 | 0.024792 | 0        | 0.017916 | 44388.95 | 0         | 78.51408 | 22.54201 |

|     |             |          |   |          |          |          |            |          |          |          |
|-----|-------------|----------|---|----------|----------|----------|------------|----------|----------|----------|
| 501 | 944872.9667 | 0.013122 | 0 | 0.034435 | 0        | 0.023602 | 35608.85   | 0        | 78.5238  | 22.54216 |
| 502 | 948959.0293 | 0.00965  | 0 | 0.043993 | 0.000403 | 0.020593 | 34096.2    | 0        | 78.53352 | 22.54231 |
| 503 | 725209.4152 | 0.007287 | 0 | 0.053512 | 0.000051 | 0.015327 | 41492.1    | 0        | 78.54323 | 22.54246 |
| 504 | 0           | 0        | 0 | 0.055379 | 0.999951 | 0.012194 | 0          | 0        | 77.94118 | 22.52311 |
| 505 | 0           | 0        | 0 | 0.051232 | 0.993567 | 0.017927 | 0          | 0        | 77.95089 | 22.5233  |
| 506 | 0           | 0        | 0 | 0.048672 | 0.972962 | 0.022367 | 0          | 0        | 77.9606  | 22.52348 |
| 507 | 966597.6066 | 0.001219 | 0 | 0.044442 | 0.220817 | 0.026903 | 391714.85  | 0        | 77.97031 | 22.52366 |
| 508 | 462952.7473 | 0.001469 | 0 | 0.036251 | 0.68995  | 0.031675 | 4291506.75 | 0        | 77.98002 | 22.52385 |
| 509 | 0           | 0        | 0 | 0.028438 | 0.95652  | 0.035249 | 0          | 0        | 77.98973 | 22.52403 |
| 510 | 0           | 0        | 0 | 0.02173  | 0.956099 | 0.036718 | 0          | 0        | 77.99945 | 22.52421 |
| 511 | 0           | 0        | 0 | 0.01703  | 0.854675 | 0.038532 | 0          | 0.822719 | 78.00916 | 22.52439 |
| 512 | 323917.2157 | 0.001398 | 0 | 0.016769 | 0.400959 | 0.041583 | 1666567.8  | 0.944093 | 78.01887 | 22.52457 |
| 513 | 803447.7199 | 0.007234 | 0 | 0.02111  | 0.009869 | 0.043101 | 104518     | 0        | 78.02858 | 22.52475 |
| 514 | 1158519.214 | 0.008587 | 0 | 0.028562 | 0        | 0.041631 | 28331.95   | 0        | 78.03829 | 22.52493 |
| 515 | 740589.4737 | 0.005859 | 0 | 0.036879 | 0        | 0.038155 | 25198.25   | 0        | 78.048   | 22.52511 |
| 516 | 1111379.403 | 0.010766 | 0 | 0.044726 | 0        | 0.036859 | 30175.8    | 0        | 78.05771 | 22.52529 |
| 517 | 1481981.01  | 0.018781 | 0 | 0.04964  | 0        | 0.037306 | 40362.65   | 0        | 78.06742 | 22.52546 |
| 518 | 1971070.684 | 0.021745 | 0 | 0.05226  | 0        | 0.038353 | 29601.25   | 0        | 78.07713 | 22.52564 |
| 519 | 2549244.099 | 0.02408  | 0 | 0.054053 | 0        | 0.040567 | 33003      | 0        | 78.08685 | 22.52582 |
| 520 | 1176218.949 | 0.028285 | 0 | 0.055775 | 0        | 0.043554 | 31524.25   | 0        | 78.09656 | 22.52599 |
| 521 | 2934131.237 | 0.027149 | 0 | 0.057972 | 0        | 0.046048 | 31733.75   | 0        | 78.10627 | 22.52617 |
| 522 | 2188411.751 | 0.023548 | 0 | 0.06118  | 0        | 0.048354 | 29974.55   | 0        | 78.11598 | 22.52634 |
| 523 | 1979453.611 | 0.019673 | 0 | 0.065847 | 0        | 0.048715 | 35137.9    | 0        | 78.12569 | 22.52652 |
| 524 | 2981255.668 | 0.018501 | 1 | 0.072261 | 0        | 0.045773 | 32416.7    | 0        | 78.13541 | 22.52669 |
| 525 | 2078099.693 | 0.020306 | 0 | 0.07792  | 0        | 0.044681 | 48159.15   | 0        | 78.14512 | 22.52686 |
| 526 | 2843309.357 | 0.016846 | 0 | 0.075833 | 0        | 0.045016 | 51505.15   | 0        | 78.15483 | 22.52703 |
| 527 | 1906748.608 | 0.010683 | 0 | 0.073058 | 0        | 0.045321 | 50882.95   | 0        | 78.16454 | 22.5272  |
| 528 | 1524792.479 | 0.004689 | 0 | 0.071471 | 0.020801 | 0.041698 | 38345.85   | 0        | 78.17425 | 22.52738 |
| 529 | 1542116.226 | 0.002333 | 2 | 0.071212 | 0.030567 | 0.037256 | 29242.15   | 0        | 78.18397 | 22.52755 |
| 530 | 1938206.451 | 0.005017 | 0 | 0.072651 | 0.049701 | 0.034377 | 38153.3    | 0        | 78.19368 | 22.52772 |

|     |             |          |   |          |          |          |          |           |          |          |
|-----|-------------|----------|---|----------|----------|----------|----------|-----------|----------|----------|
| 531 | 1618049.211 | 0.013859 | 0 | 0.073607 | 0        | 0.032254 | 32368.4  | 0         | 78.20339 | 22.52788 |
| 532 | 1365557.164 | 0.023246 | 0 | 0.073538 | 0        | 0.030984 | 33033.65 | 0         | 78.2131  | 22.52805 |
| 533 | 1560052.104 | 0.027941 | 0 | 0.075162 | 0        | 0.031224 | 41165.95 | 0         | 78.22282 | 22.52822 |
| 534 | 1533377.284 | 0.028982 | 0 | 0.077194 | 0        | 0.031937 | 35459.65 | 0         | 78.23253 | 22.52839 |
| 535 | 1410475.337 | 0.032625 | 0 | 0.078455 | 0        | 0.030079 | 33269.9  | 0         | 78.24224 | 22.52856 |
| 536 | 1731590.412 | 0.03292  | 0 | 0.077729 | 0        | 0.029259 | 34009.7  | 0         | 78.25196 | 22.52872 |
| 537 | 3408510.516 | 0.033864 | 0 | 0.073877 | 0.005151 | 0.028226 | 29972.15 | 0         | 78.26167 | 22.52889 |
| 538 | 2419491.434 | 0.037632 | 0 | 0.067015 | 0        | 0.027797 | 32114.45 | 0         | 78.27138 | 22.52905 |
| 539 | 2111929.816 | 0.04262  | 1 | 0.059682 | 0        | 0.030551 | 31783.1  | 0         | 78.2811  | 22.52922 |
| 540 | 3523897.858 | 0.0492   | 1 | 0.05293  | 0        | 0.034835 | 39857.15 | 0         | 78.29081 | 22.52938 |
| 541 | 2412241.419 | 0.055095 | 2 | 0.047608 | 0        | 0.037045 | 28568.25 | 0         | 78.30052 | 22.52954 |
| 542 | 1939539.737 | 0.053441 | 0 | 0.043412 | 0        | 0.038226 | 37266.35 | 0         | 78.31024 | 22.52971 |
| 543 | 2122214.128 | 0.051952 | 0 | 0.041004 | 0        | 0.037849 | 31826.45 | 0         | 78.31995 | 22.52987 |
| 544 | 2710802.622 | 0.051895 | 1 | 0.040718 | 0        | 0.035596 | 29923.4  | 0         | 78.32967 | 22.53003 |
| 545 | 3514999.982 | 0.05212  | 1 | 0.040957 | 0        | 0.03508  | 26702.75 | 0         | 78.33938 | 22.53019 |
| 546 | 3138627.658 | 0.05371  | 0 | 0.040791 | 0        | 0.036105 | 35436.9  | 0         | 78.34909 | 22.53035 |
| 547 | 2752819.063 | 0.056985 | 0 | 0.040997 | 0        | 0.036779 | 32902.5  | 0         | 78.35881 | 22.53051 |
| 548 | 2783987.487 | 0.057968 | 0 | 0.042727 | 0        | 0.033414 | 30321.8  | 0         | 78.36852 | 22.53067 |
| 549 | 3050513.581 | 0.05455  | 0 | 0.04427  | 0        | 0.030377 | 36082.4  | 0         | 78.37824 | 22.53083 |
| 550 | 2299077.846 | 0.051917 | 0 | 0.039184 | 0        | 0.026914 | 54965.45 | 0         | 78.38795 | 22.53099 |
| 551 | 2109358.359 | 0.051117 | 1 | 0.030013 | 0        | 0.026073 | 48833.45 | 0         | 78.39766 | 22.53115 |
| 552 | 2181853.604 | 0.050202 | 1 | 0.020571 | 0        | 0.022569 | 60772.8  | 0         | 78.40738 | 22.5313  |
| 553 | 5730217.324 | 0.045781 | 0 | 0.012104 | 0        | 0.017549 | 56295.5  | 14.08317  | 78.41709 | 22.53146 |
| 554 | 1426665.847 | 0.040554 | 0 | 0.00588  | 0        | 0.014899 | 49051.1  | 50.331367 | 78.42681 | 22.53161 |
| 555 | 1190844.054 | 0.034889 | 1 | 0.002754 | 0        | 0.013    | 39200.45 | 68.76737  | 78.43652 | 22.53177 |
| 556 | 1350362.183 | 0.030673 | 1 | 0.002409 | 0        | 0.016809 | 46210.95 | 55.09859  | 78.44624 | 22.53192 |
| 557 | 2235313.453 | 0.024759 | 0 | 0.002104 | 0        | 0.022426 | 35146.15 | 52.966709 | 78.45595 | 22.53208 |
| 558 | 2963699.121 | 0.015589 | 2 | 0.004546 | 0        | 0.024054 | 38829.95 | 54.110945 | 78.46567 | 22.53223 |
| 559 | 4319755.389 | 0.006514 | 1 | 0.007085 | 0        | 0.021598 | 38519.5  | 49.922481 | 78.47538 | 22.53238 |
| 560 | 3870262.976 | 0.002424 | 4 | 0.008004 | 0.007649 | 0.020663 | 36624.75 | 38.198609 | 78.4851  | 22.53254 |

|     |             |          |   |          |          |          |            |           |          |          |
|-----|-------------|----------|---|----------|----------|----------|------------|-----------|----------|----------|
| 561 | 2022026.719 | 0.00835  | 4 | 0.011965 | 0        | 0.020839 | 37683.9    | 13.794027 | 78.49481 | 22.53269 |
| 562 | 2124018.164 | 0.012647 | 3 | 0.018995 | 0        | 0.021982 | 44351.1    | 0.167247  | 78.50453 | 22.53284 |
| 563 | 1941855.417 | 0.01658  | 2 | 0.027127 | 0        | 0.025102 | 36221.65   | 0         | 78.51425 | 22.53299 |
| 564 | 1426524.821 | 0.019246 | 0 | 0.035612 | 0.029317 | 0.027767 | 35162.6    | 0         | 78.52396 | 22.53314 |
| 565 | 1328384.703 | 0.018201 | 0 | 0.042735 | 0        | 0.024176 | 42424.3    | 0         | 78.53368 | 22.53329 |
| 566 | 1261688.453 | 0.015896 | 2 | 0.048837 | 0        | 0.019999 | 34745.15   | 0         | 78.54339 | 22.53344 |
| 567 | 1053357.503 | 0.016398 | 3 | 0.055438 | 0        | 0.01461  | 34248      | 0         | 78.55311 | 22.53359 |
| 568 | 0           | 0        | 0 | 0.047728 | 0.999995 | 0.013422 | 0          | 0         | 77.94138 | 22.51409 |
| 569 | 576464.6135 | 0.001292 | 0 | 0.043218 | 0.600526 | 0.019281 | 7456851.05 | 0         | 77.95109 | 22.51428 |
| 570 | 421605.856  | 0.001185 | 0 | 0.039483 | 0.407684 | 0.023487 | 3255208.55 | 0         | 77.9608  | 22.51446 |
| 571 | 857200.2916 | 0.001506 | 0 | 0.03754  | 0.03907  | 0.02923  | 178250.25  | 0         | 77.97051 | 22.51464 |
| 572 | 607099.422  | 0.001711 | 0 | 0.032642 | 0.73223  | 0.034508 | 4296700.85 | 0         | 77.98022 | 22.51482 |
| 573 | 980733.0665 | 0.002587 | 0 | 0.023706 | 0.679568 | 0.037132 | 5947269.9  | 0         | 77.98993 | 22.51501 |
| 574 | 590164.9587 | 0.002373 | 0 | 0.01495  | 0.784537 | 0.03715  | 0          | 4.87191   | 77.99964 | 22.51519 |
| 575 | 0           | 0        | 0 | 0.008803 | 0.874819 | 0.038316 | 0          | 19.314515 | 78.00935 | 22.51537 |
| 576 | 454108.7836 | 0.001075 | 0 | 0.008675 | 0.349614 | 0.040507 | 1749785.15 | 13.183771 | 78.01906 | 22.51555 |
| 577 | 1464531.471 | 0.007843 | 0 | 0.0156   | 0.000123 | 0.04374  | 99128.3    | 1.500297  | 78.02877 | 22.51573 |
| 578 | 2247166.779 | 0.015248 | 0 | 0.024396 | 0        | 0.044822 | 25692.3    | 0         | 78.03848 | 22.51591 |
| 579 | 2550930.259 | 0.015255 | 0 | 0.032389 | 0        | 0.043175 | 27391.2    | 0         | 78.04819 | 22.51609 |
| 580 | 1913198.199 | 0.01774  | 0 | 0.036824 | 0        | 0.040781 | 40094.35   | 0         | 78.0579  | 22.51626 |
| 581 | 2224784.632 | 0.023509 | 1 | 0.041355 | 0        | 0.039725 | 28125.65   | 0         | 78.06761 | 22.51644 |
| 582 | 2629478.33  | 0.029809 | 0 | 0.043559 | 0        | 0.040042 | 28074.9    | 0         | 78.07732 | 22.51662 |
| 583 | 2473218.24  | 0.032177 | 0 | 0.045505 | 0        | 0.041669 | 33108      | 0         | 78.08704 | 22.51679 |
| 584 | 2356374.365 | 0.036022 | 1 | 0.047177 | 0        | 0.045213 | 29158.6    | 0         | 78.09675 | 22.51697 |
| 585 | 2303455.413 | 0.03537  | 2 | 0.049562 | 0        | 0.049418 | 28722.1    | 0         | 78.10646 | 22.51714 |
| 586 | 3680192.891 | 0.0312   | 4 | 0.053339 | 0        | 0.054101 | 36824.85   | 0         | 78.11617 | 22.51732 |
| 587 | 3791130.656 | 0.028064 | 1 | 0.059209 | 0        | 0.056278 | 30331.2    | 0         | 78.12588 | 22.51749 |
| 588 | 3851397.932 | 0.028058 | 0 | 0.065423 | 0        | 0.054593 | 28844      | 0         | 78.13559 | 22.51767 |
| 589 | 2636755.387 | 0.028851 | 0 | 0.069401 | 0        | 0.053998 | 35819.35   | 0         | 78.1453  | 22.51784 |
| 590 | 2837576.824 | 0.023787 | 0 | 0.067362 | 0        | 0.053938 | 29175.95   | 0         | 78.15501 | 22.51801 |

|     |             |          |   |          |          |          |          |           |          |          |
|-----|-------------|----------|---|----------|----------|----------|----------|-----------|----------|----------|
| 591 | 3397827.514 | 0.016404 | 0 | 0.064548 | 0        | 0.053296 | 29426.95 | 0         | 78.16473 | 22.51818 |
| 592 | 4371436.243 | 0.00952  | 0 | 0.062746 | 0        | 0.048941 | 36441.8  | 0         | 78.17444 | 22.51835 |
| 593 | 4309158.116 | 0.002222 | 0 | 0.062484 | 0.000993 | 0.045349 | 50310.6  | 0         | 78.18415 | 22.51852 |
| 594 | 2339595.127 | 0.006501 | 0 | 0.063978 | 0        | 0.042644 | 47337.35 | 0         | 78.19386 | 22.51869 |
| 595 | 2828995.449 | 0.015218 | 0 | 0.06485  | 0        | 0.040154 | 48510.25 | 0         | 78.20357 | 22.51886 |
| 596 | 2425147.777 | 0.024363 | 0 | 0.064768 | 0        | 0.038514 | 56100.95 | 0         | 78.21329 | 22.51903 |
| 597 | 2276243.287 | 0.033405 | 0 | 0.065825 | 0        | 0.038911 | 33862.85 | 0         | 78.223   | 22.5192  |
| 598 | 2278511.049 | 0.038515 | 0 | 0.067685 | 0        | 0.039818 | 30670.2  | 0         | 78.23271 | 22.51937 |
| 599 | 2546120.532 | 0.04123  | 0 | 0.069465 | 0        | 0.038956 | 39977.85 | 0         | 78.24242 | 22.51953 |
| 600 | 4730704.865 | 0.041613 | 0 | 0.06909  | 0        | 0.038426 | 32086.55 | 0         | 78.25214 | 22.5197  |
| 601 | 5569640.746 | 0.042521 | 0 | 0.06868  | 0        | 0.037385 | 28297.2  | 0         | 78.26185 | 22.51986 |
| 602 | 4855292.002 | 0.045473 | 0 | 0.068732 | 0        | 0.036859 | 29215.9  | 0         | 78.27156 | 22.52003 |
| 603 | 2381007.055 | 0.049763 | 0 | 0.065523 | 0        | 0.039039 | 36183    | 0         | 78.28127 | 22.52019 |
| 604 | 1681133.264 | 0.055433 | 1 | 0.060074 | 0        | 0.043224 | 30350.65 | 0         | 78.29099 | 22.52036 |
| 605 | 1394608.725 | 0.061863 | 0 | 0.055438 | 0        | 0.045116 | 32117.35 | 0         | 78.3007  | 22.52052 |
| 606 | 925643.8566 | 0.062405 | 0 | 0.052169 | 0        | 0.044182 | 39971.2  | 0         | 78.31041 | 22.52068 |
| 607 | 853127.2577 | 0.061524 | 0 | 0.05053  | 0        | 0.041929 | 30803.25 | 0         | 78.32013 | 22.52085 |
| 608 | 2178199.429 | 0.061476 | 0 | 0.050298 | 0        | 0.039832 | 31560.75 | 0         | 78.32984 | 22.52101 |
| 609 | 2325247.661 | 0.061543 | 0 | 0.050373 | 0        | 0.039572 | 38625.8  | 0         | 78.33955 | 22.52117 |
| 610 | 2187873.948 | 0.062466 | 1 | 0.049706 | 0        | 0.039443 | 28015.9  | 0         | 78.34927 | 22.52133 |
| 611 | 2292055.408 | 0.065248 | 1 | 0.049569 | 0        | 0.03671  | 27381.05 | 0         | 78.35898 | 22.52149 |
| 612 | 2949731.491 | 0.066451 | 0 | 0.051368 | 0        | 0.033886 | 38477.65 | 0         | 78.36869 | 22.52165 |
| 613 | 2753828.526 | 0.062762 | 1 | 0.048546 | 0        | 0.028502 | 33690.3  | 0         | 78.37841 | 22.52181 |
| 614 | 1855223.083 | 0.060556 | 1 | 0.039284 | 0        | 0.023831 | 34320.55 | 0         | 78.38812 | 22.52196 |
| 615 | 2583283.505 | 0.057678 | 0 | 0.029756 | 0        | 0.023601 | 33281.8  | 0         | 78.39783 | 22.52212 |
| 616 | 2391669.254 | 0.050429 | 0 | 0.020279 | 0        | 0.020352 | 45010.1  | 0         | 78.40755 | 22.52228 |
| 617 | 2767602.905 | 0.041987 | 0 | 0.010973 | 0        | 0.013475 | 36544.45 | 20.370763 | 78.41726 | 22.52243 |
| 618 | 1514134.887 | 0.034149 | 0 | 0.002605 | 0        | 0.01352  | 44988.1  | 58.983926 | 78.42698 | 22.52259 |
| 619 | 1577189.718 | 0.027232 | 0 | 0.002568 | 0        | 0.014463 | 72569.2  | 88.881783 | 78.43669 | 22.52274 |
| 620 | 2251248.864 | 0.022697 | 4 | 0.005839 | 0        | 0.019052 | 55666.5  | 78.495238 | 78.4464  | 22.5229  |

|     |             |          |   |          |          |          |            |           |          |          |
|-----|-------------|----------|---|----------|----------|----------|------------|-----------|----------|----------|
| 621 | 2629586.092 | 0.020866 | 6 | 0.007693 | 0        | 0.024222 | 56456.65   | 32.582784 | 78.45612 | 22.52305 |
| 622 | 3013369.29  | 0.018382 | 1 | 0.012479 | 0        | 0.025362 | 64690.6    | 12.712639 | 78.46583 | 22.52321 |
| 623 | 3789811.742 | 0.010437 | 7 | 0.015255 | 0        | 0.021358 | 33529.1    | 2.395344  | 78.47555 | 22.52336 |
| 624 | 4403230.375 | 0.003255 | 3 | 0.016783 | 0.010717 | 0.0188   | 32377.2    | 0.25282   | 78.48526 | 22.52351 |
| 625 | 4024051.438 | 0.00331  | 8 | 0.019124 | 0.005097 | 0.02085  | 36605.25   | 0         | 78.49498 | 22.52366 |
| 626 | 2791063.517 | 0.005812 | 8 | 0.024203 | 0        | 0.02618  | 45748.75   | 0         | 78.50469 | 22.52381 |
| 627 | 2087538.355 | 0.009241 | 6 | 0.027554 | 0        | 0.030475 | 37102.3    | 0         | 78.51441 | 22.52396 |
| 628 | 1510463.318 | 0.016891 | 1 | 0.030524 | 0        | 0.030881 | 35915.7    | 0         | 78.52412 | 22.52411 |
| 629 | 1235689.794 | 0.024388 | 1 | 0.035397 | 0        | 0.026597 | 43904.55   | 0         | 78.53384 | 22.52426 |
| 630 | 1273782.022 | 0.02488  | 1 | 0.041991 | 0        | 0.023556 | 36010.35   | 0         | 78.54355 | 22.52441 |
| 631 | 0           | 0        | 0 | 0.039869 | 0.999863 | 0.015103 | 0          | 0         | 77.94158 | 22.50507 |
| 632 | 0           | 0        | 0 | 0.03511  | 0.956943 | 0.020987 | 0          | 0         | 77.95129 | 22.50525 |
| 633 | 760167.3367 | 0.001218 | 0 | 0.031245 | 0.445339 | 0.024809 | 3247741.85 | 0         | 77.961   | 22.50544 |
| 634 | 1622885.31  | 0.001134 | 0 | 0.02897  | 0.195665 | 0.029862 | 171164.05  | 0         | 77.97071 | 22.50562 |
| 635 | 0           | 0        | 0 | 0.028086 | 0.848498 | 0.035221 | 0          | 0         | 77.98042 | 22.5058  |
| 636 | 2392651.923 | 0.002369 | 0 | 0.019918 | 0.255669 | 0.037761 | 186575.4   | 0         | 77.99013 | 22.50599 |
| 637 | 3539693.456 | 0.003041 | 0 | 0.010206 | 0        | 0.035537 | 35861.25   | 17.744458 | 77.99984 | 22.50617 |
| 638 | 765834.2099 | 0.001093 | 0 | 0.002559 | 0.349999 | 0.033728 | 1453881.05 | 35.540181 | 78.00954 | 22.50635 |
| 639 | 1681210.234 | 0.00521  | 1 | 0.004779 | 0.001627 | 0.036229 | 114830.55  | 29.922786 | 78.01925 | 22.50653 |
| 640 | 2292988.14  | 0.010766 | 0 | 0.013793 | 0        | 0.039439 | 25404.45   | 3.27273   | 78.02896 | 22.50671 |
| 641 | 3197218.269 | 0.01901  | 0 | 0.021423 | 0        | 0.040798 | 28482.25   | 0         | 78.03867 | 22.50689 |
| 642 | 2659927.483 | 0.023901 | 0 | 0.025063 | 0        | 0.038652 | 34908.05   | 0         | 78.04838 | 22.50706 |
| 643 | 1629827.416 | 0.025651 | 0 | 0.028939 | 0        | 0.036921 | 32414.4    | 0         | 78.05809 | 22.50724 |
| 644 | 2884157.074 | 0.029984 | 0 | 0.033432 | 0        | 0.035423 | 30954.05   | 0         | 78.0678  | 22.50742 |
| 645 | 2182210.224 | 0.036286 | 0 | 0.03489  | 0        | 0.035606 | 32643.65   | 0         | 78.07751 | 22.5076  |
| 646 | 2838782.978 | 0.040554 | 0 | 0.036939 | 0        | 0.03719  | 32307.25   | 0         | 78.08722 | 22.50777 |
| 647 | 3248450.628 | 0.044151 | 1 | 0.037964 | 0        | 0.040844 | 27699.15   | 0         | 78.09693 | 22.50795 |
| 648 | 3991018.621 | 0.043662 | 0 | 0.040901 | 0        | 0.046253 | 27934.3    | 0         | 78.10665 | 22.50812 |
| 649 | 4557036.687 | 0.039439 | 0 | 0.045944 | 0        | 0.051641 | 39645.55   | 0         | 78.11636 | 22.5083  |
| 650 | 3950489.599 | 0.037064 | 0 | 0.052387 | 0        | 0.055886 | 31785.65   | 0         | 78.12607 | 22.50847 |

|     |             |          |   |          |   |          |          |          |          |          |
|-----|-------------|----------|---|----------|---|----------|----------|----------|----------|----------|
| 651 | 3817492.417 | 0.036813 | 0 | 0.058215 | 0 | 0.059534 | 29933.35 | 0        | 78.13578 | 22.50864 |
| 652 | 4065128.18  | 0.035069 | 0 | 0.06145  | 0 | 0.061642 | 36713.7  | 0        | 78.14549 | 22.50882 |
| 653 | 4930188.243 | 0.027185 | 0 | 0.059273 | 0 | 0.061907 | 30483.8  | 0        | 78.1552  | 22.50899 |
| 654 | 4725974.071 | 0.018577 | 0 | 0.056124 | 0 | 0.06003  | 29252    | 0        | 78.16491 | 22.50916 |
| 655 | 8450899.117 | 0.009403 | 0 | 0.054041 | 0 | 0.056074 | 36545.7  | 0        | 78.17462 | 22.50933 |
| 656 | 7072369.3   | 0.002012 | 0 | 0.053551 | 0 | 0.052812 | 30688.35 | 0        | 78.18433 | 22.5095  |
| 657 | 5122836.196 | 0.007721 | 0 | 0.054522 | 0 | 0.05093  | 29275.8  | 0        | 78.19404 | 22.50967 |
| 658 | 5612366.501 | 0.016483 | 0 | 0.055301 | 0 | 0.048432 | 35741.5  | 0        | 78.20376 | 22.50984 |
| 659 | 4436166.022 | 0.025196 | 0 | 0.055428 | 0 | 0.04704  | 38441.25 | 0        | 78.21347 | 22.51001 |
| 660 | 3330963.398 | 0.035153 | 0 | 0.057291 | 0 | 0.047356 | 42654.45 | 0        | 78.22318 | 22.51017 |
| 661 | 3363402.103 | 0.04452  | 0 | 0.059469 | 0 | 0.048463 | 42893.9  | 0        | 78.23289 | 22.51034 |
| 662 | 3083253.529 | 0.04972  | 0 | 0.060785 | 0 | 0.047145 | 47566.9  | 0        | 78.2426  | 22.51051 |
| 663 | 2907824.674 | 0.050379 | 0 | 0.06037  | 0 | 0.046776 | 41722.6  | 0        | 78.25231 | 22.51067 |
| 664 | 2646840.391 | 0.051132 | 0 | 0.0599   | 0 | 0.04577  | 27599.2  | 0        | 78.26203 | 22.51084 |
| 665 | 6086320.442 | 0.053615 | 0 | 0.060581 | 0 | 0.046037 | 33795.85 | 0        | 78.27174 | 22.51101 |
| 666 | 3721212.208 | 0.057604 | 0 | 0.062691 | 0 | 0.047808 | 29427.85 | 0        | 78.28145 | 22.51117 |
| 667 | 3836964.374 | 0.062812 | 0 | 0.064795 | 0 | 0.051093 | 32698.9  | 0        | 78.29116 | 22.51133 |
| 668 | 4115936.592 | 0.068961 | 0 | 0.063987 | 0 | 0.050979 | 43753.1  | 0        | 78.30087 | 22.5115  |
| 669 | 2892657.849 | 0.071363 | 0 | 0.061015 | 0 | 0.048196 | 35920.6  | 0        | 78.31059 | 22.51166 |
| 670 | 1980964.838 | 0.0703   | 0 | 0.059278 | 0 | 0.045414 | 34397.85 | 0        | 78.3203  | 22.51182 |
| 671 | 3104783.574 | 0.070258 | 0 | 0.058986 | 0 | 0.043526 | 34431.05 | 0        | 78.33001 | 22.51198 |
| 672 | 2119709.404 | 0.070475 | 0 | 0.057394 | 0 | 0.043011 | 43787.3  | 0        | 78.33972 | 22.51214 |
| 673 | 2344317.769 | 0.070887 | 1 | 0.054603 | 0 | 0.040167 | 34402.75 | 0        | 78.34944 | 22.5123  |
| 674 | 2260919.995 | 0.073517 | 0 | 0.052585 | 0 | 0.037095 | 35292.55 | 0        | 78.35915 | 22.51246 |
| 675 | 3349638.766 | 0.072103 | 0 | 0.051878 | 0 | 0.034472 | 42902.5  | 0        | 78.36886 | 22.51262 |
| 676 | 2870270.465 | 0.067088 | 0 | 0.049194 | 0 | 0.028805 | 34537.55 | 0        | 78.37858 | 22.51278 |
| 677 | 2915572.393 | 0.062426 | 0 | 0.041004 | 0 | 0.024702 | 33183.2  | 0        | 78.38829 | 22.51294 |
| 678 | 1808046.34  | 0.056138 | 0 | 0.031988 | 0 | 0.021944 | 38707.6  | 0        | 78.398   | 22.5131  |
| 679 | 2025465.987 | 0.047449 | 1 | 0.023203 | 0 | 0.017249 | 33816.95 | 0        | 78.40772 | 22.51325 |
| 680 | 1369732.129 | 0.038201 | 0 | 0.014578 | 0 | 0.015223 | 33500.95 | 7.334938 | 78.41743 | 22.51341 |

|     |             |          |   |          |          |          |            |           |          |          |
|-----|-------------|----------|---|----------|----------|----------|------------|-----------|----------|----------|
| 681 | 1641867.587 | 0.029375 | 0 | 0.0074   | 0        | 0.017426 | 41289.95   | 47.162057 | 78.42714 | 22.51356 |
| 682 | 1418307.222 | 0.021215 | 0 | 0.002341 | 0        | 0.018506 | 35856.7    | 70.179453 | 78.43686 | 22.51372 |
| 683 | 1495247.057 | 0.015081 | 0 | 0.004034 | 0        | 0.020226 | 36393.3    | 72.188673 | 78.44657 | 22.51387 |
| 684 | 3249339.06  | 0.01226  | 2 | 0.009067 | 0        | 0.020487 | 35737.35   | 47.306413 | 78.45628 | 22.51403 |
| 685 | 4742000.781 | 0.016726 | 2 | 0.015819 | 0        | 0.022279 | 42454.05   | 5.038292  | 78.466   | 22.51418 |
| 686 | 4815893.621 | 0.015915 | 2 | 0.021634 | 0        | 0.018813 | 51792.3    | 0         | 78.47571 | 22.51433 |
| 687 | 3203391.089 | 0.009668 | 2 | 0.023454 | 0        | 0.014593 | 51002.75   | 0         | 78.48543 | 22.51449 |
| 688 | 1946790.057 | 0.003931 | 3 | 0.02303  | 0.00406  | 0.0182   | 72790.75   | 0         | 78.49514 | 22.51464 |
| 689 | 1796356.202 | 0.001818 | 5 | 0.0202   | 0.029979 | 0.025507 | 51869.05   | 0         | 78.50485 | 22.51479 |
| 690 | 1856890.876 | 0.004689 | 3 | 0.019503 | 0        | 0.031932 | 43607.05   | 0         | 78.51457 | 22.51494 |
| 691 | 2172315.578 | 0.013839 | 4 | 0.022746 | 0        | 0.032547 | 43591      | 0         | 78.52428 | 22.51509 |
| 692 | 1495677.295 | 0.023308 | 0 | 0.028948 | 0        | 0.027633 | 36572.6    | 0         | 78.534   | 22.51524 |
| 693 | 1160775.366 | 0.031478 | 0 | 0.037055 | 0        | 0.023094 | 35698.2    | 0         | 78.54371 | 22.51539 |
| 694 | 540847.8855 | 0.000852 | 0 | 0.033356 | 0.754161 | 0.017252 | 0          | 0         | 77.94178 | 22.49605 |
| 695 | 518654.3114 | 0.002179 | 0 | 0.0274   | 0.767614 | 0.022789 | 0          | 0         | 77.95149 | 22.49623 |
| 696 | 988944.4557 | 0.001465 | 0 | 0.023081 | 0.35326  | 0.026755 | 1670772.55 | 0         | 77.9612  | 22.49642 |
| 697 | 720552.6505 | 0.003049 | 0 | 0.0202   | 0.08814  | 0.029961 | 97552.55   | 0         | 77.9709  | 22.4966  |
| 698 | 1562485.677 | 0.0029   | 0 | 0.02134  | 0.040401 | 0.03372  | 29862.8    | 0         | 77.98061 | 22.49678 |
| 699 | 1755277.513 | 0.000879 | 0 | 0.018282 | 0.353179 | 0.033521 | 21220.6    | 0         | 77.99032 | 22.49696 |
| 700 | 1139552.818 | 0.002677 | 0 | 0.009672 | 0.016115 | 0.030962 | 21566.95   | 21.990928 | 78.00003 | 22.49714 |
| 701 | 1184456.363 | 0.004153 | 0 | 0.002189 | 0.026292 | 0.030124 | 32260.45   | 46.934662 | 78.00974 | 22.49733 |
| 702 | 1157809.787 | 0.01091  | 0 | 0.007162 | 0        | 0.032277 | 31210.1    | 46.204028 | 78.01945 | 22.49751 |
| 703 | 2656853.83  | 0.01701  | 0 | 0.012596 | 0        | 0.035412 | 43114.25   | 10.617171 | 78.02916 | 22.49768 |
| 704 | 2684545.664 | 0.02316  | 0 | 0.013934 | 0        | 0.036624 | 46443.45   | 12.105912 | 78.03887 | 22.49786 |
| 705 | 3021838.547 | 0.030624 | 0 | 0.016927 | 0        | 0.034125 | 46980.1    | 4.427805  | 78.04858 | 22.49804 |
| 706 | 3030712.264 | 0.034001 | 0 | 0.021097 | 0        | 0.032158 | 37553.2    | 0         | 78.05828 | 22.49822 |
| 707 | 1965630.543 | 0.037632 | 0 | 0.024539 | 0        | 0.030882 | 29298.45   | 0         | 78.06799 | 22.4984  |
| 708 | 1182079.289 | 0.043125 | 0 | 0.025507 | 0        | 0.030973 | 36916.35   | 0         | 78.0777  | 22.49857 |
| 709 | 3345770.355 | 0.049489 | 0 | 0.027391 | 0        | 0.033239 | 26621.65   | 0         | 78.08741 | 22.49875 |
| 710 | 4097166.81  | 0.052176 | 0 | 0.029807 | 0        | 0.037195 | 28196.75   | 0         | 78.09712 | 22.49892 |

|     |             |          |   |          |          |          |          |   |          |          |
|-----|-------------|----------|---|----------|----------|----------|----------|---|----------|----------|
| 711 | 4749683.685 | 0.051147 | 0 | 0.033377 | 0        | 0.042838 | 38763.5  | 0 | 78.10683 | 22.4991  |
| 712 | 3681866.947 | 0.047906 | 0 | 0.039072 | 0        | 0.046898 | 31063.3  | 0 | 78.11654 | 22.49927 |
| 713 | 3379718.039 | 0.045636 | 0 | 0.046233 | 0        | 0.051478 | 31357.15 | 0 | 78.12625 | 22.49945 |
| 714 | 2467828.378 | 0.041864 | 0 | 0.050074 | 0        | 0.056724 | 37613.25 | 0 | 78.13596 | 22.49962 |
| 715 | 2356111.509 | 0.033363 | 0 | 0.05371  | 0        | 0.061367 | 30784.85 | 0 | 78.14567 | 22.49979 |
| 716 | 2997091.544 | 0.024319 | 0 | 0.051281 | 0        | 0.061284 | 30202.05 | 0 | 78.15538 | 22.49996 |
| 717 | 4803152.898 | 0.0156   | 0 | 0.047082 | 0        | 0.058994 | 29478.8  | 0 | 78.16509 | 22.50014 |
| 718 | 6434345.829 | 0.007956 | 0 | 0.044579 | 0        | 0.057472 | 33434    | 0 | 78.1748  | 22.50031 |
| 719 | 6029585.069 | 0.002731 | 0 | 0.044478 | 0.005603 | 0.056444 | 28852.75 | 0 | 78.18452 | 22.50048 |
| 720 | 7115596.564 | 0.004689 | 0 | 0.045858 | 0        | 0.05579  | 27601.05 | 0 | 78.19423 | 22.50065 |
| 721 | 5075433.072 | 0.014011 | 0 | 0.046447 | 0        | 0.055729 | 34039.9  | 0 | 78.20394 | 22.50082 |
| 722 | 5773065.232 | 0.024406 | 0 | 0.046888 | 0        | 0.055717 | 28522.6  | 0 | 78.21365 | 22.50098 |
| 723 | 5796845.017 | 0.034379 | 0 | 0.049157 | 0        | 0.056045 | 29172.4  | 0 | 78.22336 | 22.50115 |
| 724 | 2864687.021 | 0.044056 | 0 | 0.050681 | 0        | 0.056249 | 38757.15 | 0 | 78.23307 | 22.50132 |
| 725 | 3402759.12  | 0.052792 | 0 | 0.052123 | 0        | 0.054661 | 30589.8  | 0 | 78.24278 | 22.50149 |
| 726 | 4794050.099 | 0.054614 | 0 | 0.050882 | 0        | 0.054046 | 32223.25 | 0 | 78.25249 | 22.50165 |
| 727 | 6306778.071 | 0.054977 | 0 | 0.050324 | 0        | 0.0533   | 49893.95 | 0 | 78.2622  | 22.50182 |
| 728 | 7158514.95  | 0.056907 | 0 | 0.051221 | 0        | 0.053886 | 51967.45 | 0 | 78.27192 | 22.50198 |
| 729 | 4455872.783 | 0.060864 | 0 | 0.054362 | 0        | 0.054737 | 48960.55 | 0 | 78.28163 | 22.50215 |
| 730 | 3707615.888 | 0.065249 | 0 | 0.058298 | 0        | 0.054411 | 52238    | 0 | 78.29134 | 22.50231 |
| 731 | 3046274.537 | 0.070471 | 0 | 0.062829 | 0        | 0.049171 | 44382.9  | 0 | 78.30105 | 22.50247 |
| 732 | 2995649.856 | 0.075943 | 0 | 0.066016 | 0        | 0.04337  | 35342.85 | 0 | 78.31076 | 22.50264 |
| 733 | 4639321.379 | 0.078575 | 0 | 0.064684 | 0        | 0.039581 | 34563.85 | 0 | 78.32047 | 22.5028  |
| 734 | 4491051.787 | 0.079137 | 2 | 0.05824  | 0        | 0.037793 | 40945.2  | 0 | 78.33019 | 22.50296 |
| 735 | 3629711.37  | 0.079162 | 3 | 0.051852 | 0        | 0.038405 | 34973.9  | 0 | 78.3399  | 22.50312 |
| 736 | 2221920.41  | 0.078643 | 2 | 0.046865 | 0        | 0.038418 | 34890.9  | 0 | 78.34961 | 22.50328 |
| 737 | 2343230.404 | 0.073544 | 0 | 0.043654 | 0        | 0.036742 | 42315.2  | 0 | 78.35932 | 22.50344 |
| 738 | 2618210.16  | 0.066791 | 0 | 0.042501 | 0        | 0.035791 | 35025.5  | 0 | 78.36903 | 22.5036  |
| 739 | 2175201.663 | 0.060673 | 0 | 0.04326  | 0        | 0.031859 | 32644.95 | 0 | 78.37875 | 22.50376 |
| 740 | 1264184.359 | 0.054988 | 0 | 0.041802 | 0        | 0.026211 | 31461.2  | 0 | 78.38846 | 22.50391 |

|     |             |          |   |          |          |          |          |            |          |          |
|-----|-------------|----------|---|----------|----------|----------|----------|------------|----------|----------|
| 741 | 1105537.015 | 0.050478 | 0 | 0.035394 | 0        | 0.01909  | 37502.85 | 0          | 78.39817 | 22.50407 |
| 742 | 716573.1669 | 0.045122 | 0 | 0.027418 | 0        | 0.013989 | 31526.85 | 0          | 78.40788 | 22.50423 |
| 743 | 1109691.367 | 0.036252 | 0 | 0.020346 | 0        | 0.013838 | 32696.05 | 0          | 78.4176  | 22.50438 |
| 744 | 1540157.097 | 0.026788 | 0 | 0.014086 | 0        | 0.018302 | 39765.55 | 7.085688   | 78.42731 | 22.50454 |
| 745 | 1788931.217 | 0.017453 | 0 | 0.007894 | 0        | 0.018621 | 33657.8  | 55.520477  | 78.43702 | 22.50469 |
| 746 | 1959322.651 | 0.008018 | 0 | 0.001809 | 0        | 0.014636 | 34702.4  | 100.848075 | 78.44674 | 22.50485 |
| 747 | 1780546.271 | 0.00425  | 0 | 0.003313 | 0.01079  | 0.012138 | 43171.8  | 99.505863  | 78.45645 | 22.505   |
| 748 | 4449271.63  | 0.011459 | 3 | 0.010318 | 0        | 0.017074 | 37304.7  | 46.342383  | 78.46616 | 22.50516 |
| 749 | 3221075.406 | 0.019349 | 1 | 0.015608 | 0        | 0.018205 | 31667.8  | 11.1369    | 78.47588 | 22.50531 |
| 750 | 2420539.368 | 0.016423 | 0 | 0.016895 | 0        | 0.014146 | 45820.85 | 3.563802   | 78.48559 | 22.50546 |
| 751 | 2471745.567 | 0.010916 | 4 | 0.015338 | 0        | 0.019051 | 36019.1  | 7.147171   | 78.4953  | 22.50561 |
| 752 | 2598496.817 | 0.003813 | 6 | 0.012279 | 0.002223 | 0.026839 | 35902.8  | 13.027007  | 78.50502 | 22.50576 |
| 753 | 2500170.155 | 0.004553 | 5 | 0.01101  | 0.000749 | 0.032086 | 43567.95 | 7.4972     | 78.51473 | 22.50591 |
| 754 | 2992727.319 | 0.013639 | 3 | 0.016081 | 0        | 0.031835 | 60831.7  | 0.822506   | 78.52444 | 22.50606 |
| 755 | 1623936.871 | 0.022717 | 4 | 0.02408  | 0        | 0.027052 | 55531.05 | 0          | 78.53416 | 22.50621 |
| 756 | 1622518.743 | 0.031819 | 3 | 0.032935 | 0        | 0.020982 | 54170.4  | 0          | 78.54387 | 22.50636 |
| 757 | 1642732.056 | 0.001075 | 0 | 0.027814 | 0.421573 | 0.018038 | 28001.65 | 0          | 77.94198 | 22.48703 |
| 758 | 1898915.231 | 0.003961 | 0 | 0.01998  | 0.013767 | 0.022493 | 24168.1  | 0.087849   | 77.95169 | 22.48721 |
| 759 | 1802834.584 | 0.003686 | 1 | 0.014332 | 0.054196 | 0.026743 | 23797.9  | 7.410084   | 77.96139 | 22.4874  |
| 760 | 582600.3628 | 0.009303 | 0 | 0.010779 | 0.000498 | 0.029109 | 30379.9  | 19.699425  | 77.9711  | 22.48758 |
| 761 | 821078.6722 | 0.008665 | 0 | 0.012667 | 0.000891 | 0.028835 | 28232.15 | 23.994831  | 77.98081 | 22.48776 |
| 762 | 833173.9936 | 0.005361 | 0 | 0.013386 | 0        | 0.027623 | 28191.9  | 19.261596  | 77.99052 | 22.48794 |
| 763 | 577375.2784 | 0.007353 | 0 | 0.010934 | 0.001246 | 0.027271 | 25060.4  | 32.131926  | 78.00022 | 22.48812 |
| 764 | 660481.0375 | 0.011682 | 0 | 0.003721 | 0        | 0.027217 | 31283.75 | 58.817649  | 78.00993 | 22.4883  |
| 765 | 439528.7185 | 0.015583 | 0 | 0.004531 | 0.001328 | 0.028688 | 29013.55 | 55.885625  | 78.01964 | 22.48848 |
| 766 | 407242.7029 | 0.019471 | 0 | 0.005414 | 0        | 0.030979 | 27307.15 | 32.822747  | 78.02935 | 22.48866 |
| 767 | 406490.8306 | 0.023363 | 1 | 0.004847 | 0        | 0.032754 | 32044.2  | 38.104632  | 78.03906 | 22.48884 |
| 768 | 537872.1444 | 0.029504 | 1 | 0.008287 | 0        | 0.030684 | 28730.45 | 40.585677  | 78.04877 | 22.48902 |
| 769 | 782157.3971 | 0.036818 | 0 | 0.01278  | 0        | 0.027557 | 36874.45 | 21.130154  | 78.05848 | 22.4892  |
| 770 | 3253801.64  | 0.043411 | 0 | 0.016028 | 0        | 0.026057 | 54124.1  | 7.25009    | 78.06818 | 22.48937 |

|     |             |          |   |          |          |          |          |          |          |          |
|-----|-------------|----------|---|----------|----------|----------|----------|----------|----------|----------|
| 771 | 1577366.37  | 0.049893 | 0 | 0.017012 | 0        | 0.026437 | 49783.95 | 2.752777 | 78.07789 | 22.48955 |
| 772 | 3224470.471 | 0.056767 | 0 | 0.019164 | 0        | 0.02929  | 43290.9  | 0.03339  | 78.0876  | 22.48973 |
| 773 | 5356529.343 | 0.06058  | 0 | 0.02139  | 0        | 0.033825 | 39737.45 | 0.000589 | 78.09731 | 22.4899  |
| 774 | 3471631.558 | 0.059219 | 1 | 0.026209 | 0        | 0.03889  | 36499    | 0        | 78.10702 | 22.49008 |
| 775 | 3033842.887 | 0.055828 | 0 | 0.033146 | 0        | 0.043026 | 31446.45 | 0        | 78.11673 | 22.49025 |
| 776 | 3407320.161 | 0.049698 | 0 | 0.0382   | 0        | 0.048246 | 31081.25 | 0        | 78.12644 | 22.49042 |
| 777 | 2819076.981 | 0.040597 | 0 | 0.04119  | 0        | 0.054145 | 38214.7  | 0        | 78.13615 | 22.4906  |
| 778 | 3871907.062 | 0.031273 | 0 | 0.045029 | 0        | 0.058308 | 31149.7  | 0        | 78.14586 | 22.49077 |
| 779 | 3985084.737 | 0.021911 | 0 | 0.043955 | 0        | 0.056503 | 30276.3  | 0        | 78.15557 | 22.49094 |
| 780 | 6070244.619 | 0.012587 | 0 | 0.039015 | 0        | 0.053901 | 36177.2  | 0        | 78.16528 | 22.49111 |
| 781 | 4365646.3   | 0.003666 | 0 | 0.035959 | 0        | 0.05297  | 30464.25 | 0        | 78.17499 | 22.49128 |
| 782 | 4226760.357 | 0.002527 | 0 | 0.035786 | 0.004147 | 0.053674 | 29034.35 | 0        | 78.1847  | 22.49145 |
| 783 | 4799765.481 | 0.006848 | 0 | 0.037069 | 0        | 0.055605 | 34140.5  | 0        | 78.19441 | 22.49162 |
| 784 | 5676189.717 | 0.015897 | 0 | 0.037971 | 0        | 0.058342 | 29051.7  | 0        | 78.20412 | 22.49179 |
| 785 | 6770415.638 | 0.02552  | 0 | 0.037835 | 0        | 0.061256 | 28773.7  | 0        | 78.21383 | 22.49196 |
| 786 | 5416978.588 | 0.03489  | 0 | 0.039852 | 0        | 0.060333 | 28170.5  | 0        | 78.22354 | 22.49213 |
| 787 | 5560728.69  | 0.044059 | 0 | 0.04119  | 0        | 0.057482 | 35205.3  | 0        | 78.23325 | 22.4923  |
| 788 | 6216740.406 | 0.047088 | 0 | 0.043271 | 0        | 0.055783 | 27771.8  | 0        | 78.24296 | 22.49246 |
| 789 | 5684743.171 | 0.046371 | 0 | 0.042221 | 0        | 0.054784 | 26766.9  | 0        | 78.25267 | 22.49263 |
| 790 | 4205376.886 | 0.046722 | 0 | 0.041547 | 0        | 0.054039 | 34356.9  | 0        | 78.26238 | 22.49279 |
| 791 | 5788112.13  | 0.048988 | 0 | 0.042699 | 0        | 0.053575 | 28544.45 | 0        | 78.27209 | 22.49296 |
| 792 | 5256704.943 | 0.053226 | 0 | 0.046208 | 0        | 0.052295 | 32838.1  | 0        | 78.2818  | 22.49312 |
| 793 | 4162790.93  | 0.057869 | 0 | 0.050711 | 0        | 0.049158 | 37246.25 | 0        | 78.29151 | 22.49329 |
| 794 | 3210455.834 | 0.063539 | 0 | 0.054791 | 0        | 0.042521 | 49486.3  | 0        | 78.30123 | 22.49345 |
| 795 | 3387434.234 | 0.070171 | 0 | 0.059246 | 0        | 0.036271 | 47790.2  | 0        | 78.31094 | 22.49361 |
| 796 | 3553817.106 | 0.078149 | 6 | 0.059227 | 0        | 0.03169  | 57720.1  | 0        | 78.32065 | 22.49377 |
| 797 | 4312102.545 | 0.085153 | 3 | 0.051082 | 0        | 0.02943  | 49699.95 | 0        | 78.33036 | 22.49393 |
| 798 | 4964458.206 | 0.083953 | 0 | 0.044741 | 0        | 0.029547 | 40386.25 | 0        | 78.34007 | 22.49409 |
| 799 | 2513911.325 | 0.076035 | 0 | 0.03911  | 0        | 0.032537 | 33733.45 | 0        | 78.34978 | 22.49426 |
| 800 | 1593895.666 | 0.068075 | 1 | 0.035205 | 0        | 0.035619 | 42285.5  | 0        | 78.35949 | 22.49441 |

|     |             |          |    |          |          |          |           |            |          |          |
|-----|-------------|----------|----|----------|----------|----------|-----------|------------|----------|----------|
| 801 | 2339118.807 | 0.060598 | 0  | 0.033773 | 0        | 0.036323 | 35225.35  | 0          | 78.36921 | 22.49457 |
| 802 | 1873719.806 | 0.054218 | 0  | 0.034516 | 0        | 0.03395  | 32527     | 0          | 78.37892 | 22.49473 |
| 803 | 2236190.952 | 0.047834 | 0  | 0.034474 | 0        | 0.026212 | 36981.8   | 0          | 78.38863 | 22.49489 |
| 804 | 2292688.944 | 0.04259  | 0  | 0.030512 | 0        | 0.018785 | 30025.05  | 0          | 78.39834 | 22.49505 |
| 805 | 1808953.431 | 0.039016 | 1  | 0.027916 | 0        | 0.014091 | 30620.6   | 0          | 78.40805 | 22.4952  |
| 806 | 2134941.699 | 0.035304 | 0  | 0.024732 | 0        | 0.013312 | 38536.4   | 0          | 78.41776 | 22.49536 |
| 807 | 1848296.005 | 0.026834 | 0  | 0.018722 | 0        | 0.014748 | 31310.7   | 0          | 78.42748 | 22.49551 |
| 808 | 1647356.839 | 0.016905 | 0  | 0.009689 | 0        | 0.013105 | 31450.15  | 38.282106  | 78.43719 | 22.49567 |
| 809 | 1555355.168 | 0.00777  | 0  | 0.001532 | 0        | 0.007923 | 32252.75  | 114.816294 | 78.4469  | 22.49582 |
| 810 | 1245322.812 | 0.005397 | 1  | 0.001516 | 0.000454 | 0.007853 | 41529.55  | 123.921226 | 78.45661 | 22.49598 |
| 811 | 1752371.051 | 0.011675 | 0  | 0.003743 | 0        | 0.014134 | 34135.9   | 73.04836   | 78.46633 | 22.49613 |
| 812 | 3315680.089 | 0.020533 | 0  | 0.007641 | 0        | 0.019488 | 33699.4   | 45.943032  | 78.47604 | 22.49628 |
| 813 | 2853253.802 | 0.022698 | 2  | 0.008375 | 0        | 0.018529 | 40320.6   | 38.999483  | 78.48575 | 22.49644 |
| 814 | 2697226.993 | 0.01462  | 1  | 0.006843 | 0        | 0.023536 | 32811.35  | 41.249973  | 78.49547 | 22.49659 |
| 815 | 2919670.684 | 0.00555  | 1  | 0.00456  | 0        | 0.029772 | 36463.45  | 32.406961  | 78.50518 | 22.49674 |
| 816 | 3033061.08  | 0.002794 | 4  | 0.004054 | 0.015106 | 0.033218 | 43176.25  | 17.371249  | 78.51489 | 22.49689 |
| 817 | 2370771.989 | 0.010988 | 6  | 0.012321 | 0        | 0.032201 | 36991.3   | 2.870931   | 78.5246  | 22.49704 |
| 818 | 2476316.236 | 0.020273 | 11 | 0.021745 | 0        | 0.028215 | 31918.8   | 0          | 78.53432 | 22.49719 |
| 819 | 2310450.196 | 0.029148 | 9  | 0.03126  | 0        | 0.02252  | 45343.45  | 0          | 78.54403 | 22.49733 |
| 820 | 1255948.58  | 0.001074 | 0  | 0.023332 | 0.732774 | 0.016464 | 2877449.7 | 0          | 77.94218 | 22.47801 |
| 821 | 2305962.228 | 0.002046 | 0  | 0.013981 | 0.337476 | 0.020709 | 169377.7  | 2.830157   | 77.95188 | 22.47819 |
| 822 | 2241083.084 | 0.0034   | 0  | 0.006567 | 0.098365 | 0.025126 | 24174.65  | 19.006698  | 77.96159 | 22.47837 |
| 823 | 586752.5565 | 0.00734  | 1  | 0.002844 | 0        | 0.026824 | 25091.95  | 34.622262  | 77.9713  | 22.47856 |
| 824 | 662919.6671 | 0.007695 | 0  | 0.003992 | 0        | 0.023386 | 24377.5   | 46.299787  | 77.981   | 22.47874 |
| 825 | 390585.5739 | 0.011336 | 1  | 0.005056 | 0        | 0.021884 | 26464.7   | 47.059738  | 77.99071 | 22.47892 |
| 826 | 401341.0826 | 0.012605 | 0  | 0.004363 | 0        | 0.022581 | 34897.6   | 53.388314  | 78.00042 | 22.4791  |
| 827 | 385468.6384 | 0.012419 | 1  | 0.003262 | 0        | 0.022768 | 29760     | 75.490334  | 78.01013 | 22.47928 |
| 828 | 411607.2718 | 0.012098 | 0  | 0.003017 | 0        | 0.022357 | 27279.65  | 77.033466  | 78.01983 | 22.47946 |
| 829 | 457331.2136 | 0.011044 | 0  | 0.004699 | 0        | 0.023563 | 38792.8   | 73.626193  | 78.02954 | 22.47964 |
| 830 | 365531.5229 | 0.01657  | 0  | 0.00281  | 0        | 0.026064 | 33984.3   | 79.220778  | 78.03925 | 22.47982 |

|     |             |          |   |          |          |          |          |           |          |          |
|-----|-------------|----------|---|----------|----------|----------|----------|-----------|----------|----------|
| 831 | 394016.0768 | 0.024111 | 1 | 0.001891 | 0        | 0.025118 | 27059.8  | 77.874312 | 78.04896 | 22.48    |
| 832 | 645353.0039 | 0.031263 | 0 | 0.00555  | 0        | 0.022885 | 28851.7  | 63.935013 | 78.05867 | 22.48018 |
| 833 | 2977874.519 | 0.039844 | 0 | 0.007465 | 0        | 0.02037  | 42079.3  | 49.624066 | 78.06837 | 22.48035 |
| 834 | 394871.304  | 0.048312 | 0 | 0.00895  | 0        | 0.021629 | 34701.35 | 51.240739 | 78.07808 | 22.48053 |
| 835 | 449988.5709 | 0.056891 | 0 | 0.010418 | 0        | 0.025671 | 32185.85 | 33.818871 | 78.08779 | 22.4807  |
| 836 | 1805005.822 | 0.065389 | 0 | 0.012917 | 0        | 0.031321 | 41208.65 | 7.375336  | 78.0975  | 22.48088 |
| 837 | 3761937.607 | 0.065911 | 0 | 0.019907 | 0        | 0.03436  | 43908.8  | 0.039011  | 78.10721 | 22.48105 |
| 838 | 3903741.158 | 0.05733  | 0 | 0.026978 | 0        | 0.03911  | 48221.6  | 0         | 78.11692 | 22.48123 |
| 839 | 2262194.055 | 0.047831 | 1 | 0.02975  | 0        | 0.04504  | 53660.95 | 0         | 78.12663 | 22.4814  |
| 840 | 2720995.5   | 0.038432 | 1 | 0.033377 | 0        | 0.051823 | 37065.6  | 0         | 78.13633 | 22.48158 |
| 841 | 3266740.157 | 0.029153 | 0 | 0.0367   | 0        | 0.055319 | 31361.65 | 0         | 78.14604 | 22.48175 |
| 842 | 4330290.647 | 0.020365 | 0 | 0.036766 | 0        | 0.052328 | 30523.6  | 0         | 78.15575 | 22.48192 |
| 843 | 2613301.729 | 0.011446 | 1 | 0.031348 | 0        | 0.049539 | 41602.15 | 0         | 78.16546 | 22.48209 |
| 844 | 2293183.817 | 0.002892 | 0 | 0.02731  | 0.023587 | 0.048434 | 32545.75 | 0         | 78.17517 | 22.48226 |
| 845 | 4754732.783 | 0.005774 | 0 | 0.026554 | 0        | 0.049233 | 29892    | 0         | 78.18488 | 22.48243 |
| 846 | 3758260.76  | 0.013105 | 0 | 0.028066 | 0        | 0.051557 | 36629.9  | 0         | 78.19459 | 22.4826  |
| 847 | 4138595.292 | 0.020033 | 0 | 0.028293 | 0        | 0.055111 | 29617.75 | 0         | 78.2043  | 22.48277 |
| 848 | 4348901.064 | 0.028189 | 0 | 0.028978 | 0        | 0.059236 | 29313.9  | 0         | 78.21401 | 22.48294 |
| 849 | 5162222.054 | 0.036999 | 0 | 0.031401 | 0        | 0.058986 | 32800.85 | 0         | 78.22372 | 22.4831  |
| 850 | 5199618.5   | 0.041417 | 0 | 0.032534 | 0        | 0.057596 | 26654.35 | 0         | 78.23343 | 22.48327 |
| 851 | 5947169.916 | 0.038626 | 0 | 0.035168 | 0        | 0.055518 | 25353.35 | 0         | 78.24314 | 22.48344 |
| 852 | 4968593.383 | 0.037603 | 0 | 0.033624 | 0        | 0.053402 | 33052.4  | 0         | 78.25285 | 22.4836  |
| 853 | 4291791.407 | 0.038036 | 0 | 0.032773 | 0        | 0.051653 | 28656.4  | 0         | 78.26256 | 22.48377 |
| 854 | 6215558.779 | 0.040565 | 0 | 0.034001 | 0        | 0.048897 | 31564.65 | 0         | 78.27227 | 22.48393 |
| 855 | 4658597.009 | 0.044742 | 0 | 0.037632 | 0        | 0.045752 | 30674.95 | 0         | 78.28198 | 22.4841  |
| 856 | 3501457.491 | 0.050074 | 0 | 0.042299 | 0        | 0.042671 | 33984.5  | 0         | 78.29169 | 22.48426 |
| 857 | 3715264.045 | 0.056807 | 0 | 0.046316 | 0        | 0.036965 | 30601.4  | 0         | 78.3014  | 22.48442 |
| 858 | 3294324.875 | 0.065344 | 0 | 0.052849 | 0        | 0.029237 | 29647.95 | 0         | 78.31111 | 22.48459 |
| 859 | 3143393.677 | 0.073339 | 0 | 0.054091 | 0        | 0.023036 | 37116.95 | 0         | 78.32082 | 22.48475 |
| 860 | 3814028.606 | 0.081536 | 0 | 0.045933 | 0        | 0.020438 | 31086.3  | 0         | 78.33053 | 22.48491 |

|     |             |          |   |          |          |          |          |           |          |          |
|-----|-------------|----------|---|----------|----------|----------|----------|-----------|----------|----------|
| 861 | 5564718.352 | 0.080412 | 0 | 0.038476 | 0        | 0.020552 | 38025.1  | 0         | 78.34024 | 22.48507 |
| 862 | 4386697.194 | 0.071827 | 1 | 0.031912 | 0        | 0.025306 | 52239.35 | 0         | 78.34995 | 22.48523 |
| 863 | 4677452.264 | 0.063338 | 0 | 0.026977 | 0        | 0.031828 | 49252.9  | 0         | 78.35966 | 22.48539 |
| 864 | 4715535.209 | 0.055208 | 1 | 0.024871 | 0        | 0.035914 | 50218.8  | 0         | 78.36938 | 22.48555 |
| 865 | 3604263.056 | 0.047619 | 1 | 0.025007 | 0        | 0.032742 | 50201.05 | 0         | 78.37909 | 22.48571 |
| 866 | 2601863.859 | 0.040676 | 0 | 0.025629 | 0        | 0.026131 | 43373.75 | 0         | 78.3888  | 22.48587 |
| 867 | 3576138.886 | 0.03461  | 0 | 0.021997 | 0        | 0.018488 | 33847.55 | 0         | 78.39851 | 22.48602 |
| 868 | 3494021.947 | 0.030676 | 1 | 0.019492 | 0        | 0.013684 | 33117.7  | 0         | 78.40822 | 22.48618 |
| 869 | 3289683.277 | 0.028708 | 0 | 0.018052 | 0        | 0.010263 | 41293.2  | 1.912962  | 78.41793 | 22.48633 |
| 870 | 3105494.369 | 0.027771 | 1 | 0.01305  | 0        | 0.00701  | 31697.9  | 23.811692 | 78.42764 | 22.48649 |
| 871 | 2089525.939 | 0.020526 | 0 | 0.008034 | 0        | 0.005474 | 29354    | 69.944303 | 78.43736 | 22.48664 |
| 872 | 1099189.772 | 0.014933 | 0 | 0.001728 | 0        | 0.00391  | 36810    | 84.168744 | 78.44707 | 22.4868  |
| 873 | 1161468.238 | 0.013795 | 0 | 0.004144 | 0        | 0.007994 | 33471.55 | 94.574461 | 78.45678 | 22.48695 |
| 874 | 1737187.127 | 0.017303 | 4 | 0.003659 | 0        | 0.015101 | 35289.6  | 58.570657 | 78.46649 | 22.48711 |
| 875 | 4695097.002 | 0.024275 | 8 | 0.002361 | 0        | 0.022629 | 47174.6  | 45.096691 | 78.4762  | 22.48726 |
| 876 | 5628758.549 | 0.024498 | 2 | 0.002369 | 0        | 0.024804 | 38485.6  | 44.08417  | 78.48592 | 22.48741 |
| 877 | 4769162.101 | 0.015338 | 5 | 0.002805 | 0        | 0.028666 | 37996.9  | 42.998347 | 78.49563 | 22.48756 |
| 878 | 3037447.079 | 0.006679 | 0 | 0.003577 | 0        | 0.033684 | 34380    | 34.630707 | 78.50534 | 22.48771 |
| 879 | 2340916.497 | 0.002587 | 5 | 0.007515 | 0.012697 | 0.036137 | 42412.5  | 16.871007 | 78.51505 | 22.48786 |
| 880 | 0           | 0        | 0 | 0.021773 | 0.998224 | 0.01487  | 0        | 0         | 77.94237 | 22.46899 |
| 881 | 0           | 0        | 0 | 0.012524 | 0.992833 | 0.018385 | 0        | 2.215695  | 77.95208 | 22.46917 |
| 882 | 502629.7318 | 0.001094 | 0 | 0.004578 | 0.764243 | 0.022496 | 0        | 16.202336 | 77.96179 | 22.46935 |
| 883 | 850344.4911 | 0.002558 | 2 | 0.004778 | 0.190846 | 0.024335 | 95871.2  | 31.881113 | 77.97149 | 22.46954 |
| 884 | 534081.7982 | 0.001993 | 0 | 0.005325 | 0.259807 | 0.019996 | 25562.65 | 43.433885 | 77.9812  | 22.46972 |
| 885 | 469132.506  | 0.007031 | 1 | 0.003401 | 0        | 0.017722 | 28198.5  | 42.780632 | 77.99091 | 22.4699  |
| 886 | 430265.871  | 0.007255 | 0 | 0.003853 | 0        | 0.017738 | 35130.1  | 46.735997 | 78.00061 | 22.47008 |
| 887 | 430653.3165 | 0.004828 | 0 | 0.003297 | 0.004198 | 0.015981 | 26797.95 | 60.123522 | 78.01032 | 22.47026 |
| 888 | 442534.3037 | 0.005994 | 0 | 0.002674 | 0.001361 | 0.013726 | 24471    | 62.187889 | 78.02003 | 22.47044 |
| 889 | 456429.744  | 0.003863 | 0 | 0.002266 | 0.068874 | 0.014772 | 31564.3  | 54.231039 | 78.02974 | 22.47062 |
| 890 | 387692.7009 | 0.0115   | 0 | 0.002366 | 0        | 0.017914 | 32801.3  | 65.25687  | 78.03944 | 22.4708  |

|     |             |          |   |          |          |          |          |           |          |          |
|-----|-------------|----------|---|----------|----------|----------|----------|-----------|----------|----------|
| 891 | 445688.6691 | 0.018637 | 0 | 0.002429 | 0        | 0.018978 | 29022.35 | 70.468532 | 78.04915 | 22.47098 |
| 892 | 440736.7653 | 0.026835 | 0 | 0.002111 | 0.001443 | 0.016869 | 34939.15 | 68.822152 | 78.05886 | 22.47115 |
| 893 | 443212.9978 | 0.035541 | 0 | 0.001673 | 0        | 0.015017 | 34672.3  | 74.859826 | 78.06856 | 22.47133 |
| 894 | 431143.824  | 0.044522 | 0 | 0.001761 | 0        | 0.016912 | 33697.2  | 90.607921 | 78.07827 | 22.47151 |
| 895 | 419945.4284 | 0.05358  | 1 | 0.002276 | 0        | 0.023641 | 34372.45 | 80.823469 | 78.08798 | 22.47168 |
| 896 | 447754.9206 | 0.063174 | 0 | 0.007722 | 0        | 0.028822 | 29932.45 | 45.48059  | 78.09769 | 22.47186 |
| 897 | 525157.6281 | 0.066013 | 1 | 0.015596 | 0        | 0.030338 | 27633.2  | 5.47867   | 78.1074  | 22.47203 |
| 898 | 648608.5467 | 0.056586 | 1 | 0.019242 | 0        | 0.035955 | 27906.9  | 0         | 78.1171  | 22.47221 |
| 899 | 2762563.079 | 0.04715  | 0 | 0.02139  | 0        | 0.042874 | 39182.1  | 0         | 78.12681 | 22.47238 |
| 900 | 2341195.612 | 0.037581 | 1 | 0.026012 | 0        | 0.048895 | 43052.9  | 0         | 78.13652 | 22.47255 |
| 901 | 2432181.652 | 0.02802  | 0 | 0.027997 | 0        | 0.049166 | 48312.75 | 0         | 78.14623 | 22.47272 |
| 902 | 2579854.167 | 0.01848  | 1 | 0.028728 | 0        | 0.045557 | 56213.6  | 0         | 78.15594 | 22.4729  |
| 903 | 2398123.96  | 0.008635 | 1 | 0.023433 | 0        | 0.042903 | 47516.15 | 0         | 78.16565 | 22.47307 |
| 904 | 1201437.793 | 0.001985 | 1 | 0.018357 | 0.036648 | 0.042795 | 35129.65 | 0.332556  | 78.17535 | 22.47324 |
| 905 | 3247926.892 | 0.006072 | 1 | 0.017924 | 0        | 0.044804 | 41454.75 | 0         | 78.18506 | 22.47341 |
| 906 | 4135875.576 | 0.010086 | 0 | 0.019349 | 0        | 0.047764 | 34172.45 | 0         | 78.19477 | 22.47358 |
| 907 | 4367692.072 | 0.01726  | 0 | 0.019666 | 0        | 0.052393 | 32023.9  | 0         | 78.20448 | 22.47375 |
| 908 | 4495918.808 | 0.026183 | 0 | 0.020442 | 0        | 0.056709 | 29867.6  | 0         | 78.21419 | 22.47391 |
| 909 | 4897272.21  | 0.034794 | 0 | 0.022939 | 0        | 0.055826 | 37946.95 | 0         | 78.2239  | 22.47408 |
| 910 | 4977959.181 | 0.034448 | 0 | 0.023975 | 0        | 0.053256 | 30383.6  | 0         | 78.23361 | 22.47425 |
| 911 | 3999343.386 | 0.029934 | 0 | 0.026906 | 0        | 0.051205 | 28323.4  | 0         | 78.24332 | 22.47441 |
| 912 | 4051645.688 | 0.02805  | 0 | 0.024396 | 0        | 0.048299 | 34626.8  | 0         | 78.25303 | 22.47458 |
| 913 | 6195082.58  | 0.028628 | 0 | 0.023209 | 0        | 0.045051 | 27865.5  | 0         | 78.26274 | 22.47475 |
| 914 | 5177925.384 | 0.032046 | 0 | 0.025159 | 0.000849 | 0.043088 | 32129.65 | 0         | 78.27245 | 22.47491 |
| 915 | 3682831.561 | 0.037306 | 0 | 0.03022  | 0        | 0.040381 | 39010.5  | 0         | 78.28216 | 22.47507 |
| 916 | 2553587.396 | 0.044134 | 0 | 0.034533 | 0        | 0.036969 | 32350.15 | 0         | 78.29187 | 22.47524 |
| 917 | 2962904.833 | 0.052317 | 0 | 0.039727 | 0        | 0.033022 | 32177.8  | 0         | 78.30158 | 22.4754  |
| 918 | 2869635.171 | 0.060581 | 0 | 0.046373 | 0        | 0.024088 | 41225.95 | 0         | 78.31129 | 22.47556 |
| 919 | 3416931.076 | 0.068965 | 0 | 0.050032 | 0        | 0.015763 | 32564.05 | 0         | 78.321   | 22.47572 |
| 920 | 4067533.692 | 0.077627 | 0 | 0.042046 | 0        | 0.011093 | 30505.25 | 0         | 78.33071 | 22.47589 |

|     |             |          |   |          |          |          |            |            |          |          |
|-----|-------------|----------|---|----------|----------|----------|------------|------------|----------|----------|
| 921 | 5527917.514 | 0.077364 | 0 | 0.033319 | 0        | 0.011906 | 29306.85   | 0          | 78.34042 | 22.47605 |
| 922 | 6335550.568 | 0.068222 | 2 | 0.025218 | 0        | 0.018363 | 33705.45   | 0          | 78.35013 | 22.47621 |
| 923 | 3819912.261 | 0.059219 | 0 | 0.018582 | 0        | 0.02623  | 28494.45   | 0.517421   | 78.35984 | 22.47637 |
| 924 | 5770523.515 | 0.05082  | 0 | 0.015888 | 0        | 0.030401 | 26211.55   | 7.042686   | 78.36955 | 22.47652 |
| 925 | 4740850.649 | 0.042382 | 0 | 0.016363 | 0        | 0.029755 | 44118.95   | 6.165121   | 78.37926 | 22.47668 |
| 926 | 4167487.738 | 0.034638 | 0 | 0.01726  | 0        | 0.024196 | 44551.05   | 0.906502   | 78.38897 | 22.47684 |
| 927 | 3644326.663 | 0.027743 | 0 | 0.014285 | 0        | 0.016149 | 46352.45   | 12.37715   | 78.39868 | 22.477   |
| 928 | 3892487.229 | 0.02232  | 1 | 0.010743 | 0        | 0.008881 | 55277.05   | 25.835291  | 78.40839 | 22.47715 |
| 929 | 3214034.552 | 0.020283 | 5 | 0.00989  | 0        | 0.003847 | 49281.05   | 63.060086  | 78.4181  | 22.47731 |
| 930 | 2820641.423 | 0.021977 | 1 | 0.006124 | 0.008796 | 0.000679 | 38784.25   | 185.820925 | 78.42781 | 22.47747 |
| 931 | 1937639.413 | 0.025295 | 0 | 0.002102 | 0        | 0.00017  | 28219.9    | 174.344575 | 78.43752 | 22.47762 |
| 932 | 1850410.56  | 0.023975 | 0 | 0.00369  | 0        | 0.001778 | 37028.3    | 86.827624  | 78.44723 | 22.47777 |
| 933 | 2863568.854 | 0.023282 | 3 | 0.010348 | 0        | 0.009641 | 34389.7    | 33.780455  | 78.45694 | 22.47793 |
| 934 | 2652215.779 | 0.025235 | 5 | 0.012061 | 0        | 0.018543 | 34192.45   | 15.594013  | 78.46666 | 22.47808 |
| 935 | 3314156.909 | 0.029145 | 4 | 0.009604 | 0        | 0.02603  | 43766.15   | 20.616497  | 78.47637 | 22.47823 |
| 936 | 5653125.301 | 0.023264 | 8 | 0.009581 | 0        | 0.028715 | 34538.5    | 23.145817  | 78.48608 | 22.47838 |
| 937 | 3674251.095 | 0.013766 | 0 | 0.010687 | 0        | 0.031538 | 37055.65   | 21.342895  | 78.49579 | 22.47854 |
| 938 | 3180294.729 | 0.004617 | 2 | 0.011829 | 0.002347 | 0.035862 | 41853.7    | 13.211231  | 78.5055  | 22.47869 |
| 939 | 2335314.189 | 0.001599 | 5 | 0.014734 | 0.023352 | 0.038253 | 32931.55   | 2.457175   | 78.51521 | 22.47884 |
| 940 | 0           | 0        | 0 | 0.017155 | 0.999859 | 0.016421 | 0          | 0.067679   | 77.95228 | 22.46015 |
| 941 | 0           | 0        | 0 | 0.012524 | 0.953511 | 0.020263 | 0          | 3.107147   | 77.96198 | 22.46033 |
| 942 | 0           | 0        | 0 | 0.013291 | 0.909536 | 0.022221 | 0          | 5.50151    | 77.97169 | 22.46051 |
| 943 | 355226.2366 | 0.001037 | 0 | 0.013612 | 0.733936 | 0.018236 | 4603790.35 | 5.895994   | 77.9814  | 22.4607  |
| 944 | 575799.5356 | 0.001554 | 0 | 0.011541 | 0.161042 | 0.013316 | 254580.55  | 10.618508  | 77.9911  | 22.46088 |
| 945 | 539134.5167 | 0.002356 | 0 | 0.01248  | 0.133963 | 0.010404 | 27160      | 13.419243  | 78.00081 | 22.46106 |
| 946 | 503644.0836 | 0.001189 | 0 | 0.011994 | 0.489879 | 0.008348 | 22140.3    | 16.017669  | 78.01051 | 22.46124 |
| 947 | 524424.0283 | 0.001752 | 0 | 0.010772 | 0.380524 | 0.005014 | 25703.15   | 22.855557  | 78.02022 | 22.46142 |
| 948 | 489539.1307 | 0.001421 | 0 | 0.009587 | 0.305887 | 0.007486 | 26211.65   | 28.426898  | 78.02993 | 22.4616  |
| 949 | 598424.6031 | 0.005958 | 0 | 0.010151 | 0.134541 | 0.011166 | 25772.25   | 23.801054  | 78.03963 | 22.46178 |
| 950 | 594857.6105 | 0.014413 | 1 | 0.010594 | 0.005935 | 0.013871 | 27662.05   | 24.689581  | 78.04934 | 22.46195 |

|     |             |          |   |          |          |          |          |            |          |          |
|-----|-------------|----------|---|----------|----------|----------|----------|------------|----------|----------|
| 951 | 530722.0151 | 0.023517 | 0 | 0.008777 | 0        | 0.014195 | 38926.85 | 31.70647   | 78.05905 | 22.46213 |
| 952 | 429709.6758 | 0.033161 | 2 | 0.003148 | 0        | 0.014274 | 32886.25 | 48.886168  | 78.06875 | 22.46231 |
| 953 | 430369.5046 | 0.042645 | 1 | 0.003449 | 0        | 0.020504 | 33152.95 | 91.122464  | 78.07846 | 22.46248 |
| 954 | 463168.8207 | 0.052399 | 0 | 0.001906 | 0        | 0.024939 | 37827    | 106.918067 | 78.08817 | 22.46266 |
| 955 | 516559.676  | 0.061789 | 1 | 0.00423  | 0        | 0.023352 | 33465.75 | 89.052021  | 78.09788 | 22.46284 |
| 956 | 631542.9517 | 0.066243 | 0 | 0.008498 | 0        | 0.026474 | 29165.85 | 52.92368   | 78.10758 | 22.46301 |
| 957 | 572877.8721 | 0.057426 | 1 | 0.010401 | 0        | 0.03354  | 36513.5  | 29.442574  | 78.11729 | 22.46318 |
| 958 | 564374.595  | 0.047994 | 1 | 0.012894 | 0        | 0.039994 | 29021.35 | 12.792208  | 78.127   | 22.46336 |
| 959 | 626635.6225 | 0.038635 | 1 | 0.017973 | 0        | 0.044999 | 32006.6  | 0          | 78.13671 | 22.46353 |
| 960 | 642842.5901 | 0.02951  | 0 | 0.018672 | 0        | 0.042182 | 34972.05 | 0          | 78.14641 | 22.4637  |
| 961 | 999067.3526 | 0.019578 | 2 | 0.020357 | 0        | 0.036979 | 31974.2  | 0          | 78.15612 | 22.46387 |
| 962 | 956780.4742 | 0.010314 | 2 | 0.017186 | 0        | 0.034036 | 29379.95 | 1.781877   | 78.16583 | 22.46404 |
| 963 | 749845.6575 | 0.00338  | 1 | 0.010176 | 0.017514 | 0.033723 | 35385.9  | 20.411191  | 78.17554 | 22.46421 |
| 964 | 963370.5593 | 0.001707 | 0 | 0.009403 | 0.034548 | 0.03656  | 53051.05 | 28.421211  | 78.18525 | 22.46438 |
| 965 | 1069361.803 | 0.0051   | 0 | 0.010779 | 0.017114 | 0.040573 | 47986.6  | 28.951893  | 78.19495 | 22.46455 |
| 966 | 1719275.265 | 0.014057 | 0 | 0.011186 | 0        | 0.046039 | 46599.7  | 26.41097   | 78.20466 | 22.46472 |
| 967 | 1964902.354 | 0.023438 | 0 | 0.011391 | 0        | 0.051334 | 49975.15 | 22.37914   | 78.21437 | 22.46489 |
| 968 | 1458215.814 | 0.030864 | 0 | 0.013553 | 0        | 0.050778 | 31860    | 14.337469  | 78.22408 | 22.46506 |
| 969 | 2946959.208 | 0.026992 | 1 | 0.014933 | 0        | 0.047661 | 29094.1  | 3.468699   | 78.23379 | 22.46522 |
| 970 | 4600908.931 | 0.021898 | 0 | 0.019441 | 0        | 0.045105 | 42801.6  | 0          | 78.2435  | 22.46539 |
| 971 | 4772315.672 | 0.019317 | 0 | 0.016284 | 0        | 0.041944 | 30456.35 | 4.114966   | 78.25321 | 22.46556 |
| 972 | 4916316.726 | 0.020142 | 0 | 0.014461 | 0        | 0.038069 | 32224.85 | 8.688436   | 78.26291 | 22.46572 |
| 973 | 4994903.203 | 0.024616 | 1 | 0.017578 | 0.000182 | 0.036774 | 31539.5  | 2.294235   | 78.27262 | 22.46589 |
| 974 | 4572499.331 | 0.031485 | 0 | 0.023271 | 0        | 0.035009 | 45416    | 0          | 78.28233 | 22.46605 |
| 975 | 4067015.066 | 0.039289 | 1 | 0.026977 | 0        | 0.032164 | 33526.75 | 0          | 78.29204 | 22.46621 |
| 976 | 4186732.314 | 0.047567 | 0 | 0.032857 | 0        | 0.029925 | 32020.45 | 0          | 78.30175 | 22.46638 |
| 977 | 2888853.872 | 0.05626  | 0 | 0.040187 | 0        | 0.021932 | 43165    | 0          | 78.31146 | 22.46654 |
| 978 | 2395505.84  | 0.065196 | 0 | 0.046094 | 0        | 0.011841 | 33699.2  | 0          | 78.32117 | 22.4667  |
| 979 | 3506226.519 | 0.074169 | 0 | 0.039166 | 0        | 0.00388  | 32035.7  | 0          | 78.33088 | 22.46686 |
| 980 | 4654902.412 | 0.075373 | 0 | 0.030077 | 0        | 0.005138 | 36287    | 0          | 78.34059 | 22.46702 |

|      |             |          |    |          |          |          |            |            |          |          |
|------|-------------|----------|----|----------|----------|----------|------------|------------|----------|----------|
| 981  | 5126571.707 | 0.065958 | 1  | 0.021043 | 0        | 0.013727 | 29231.25   | 0          | 78.3503  | 22.46718 |
| 982  | 5624045.794 | 0.056596 | 0  | 0.012423 | 0        | 0.021688 | 28056.55   | 16.716515  | 78.36001 | 22.46734 |
| 983  | 4149165.959 | 0.04732  | 0  | 0.007363 | 0        | 0.024165 | 33233.1    | 47.562795  | 78.36972 | 22.4675  |
| 984  | 4546687.744 | 0.038502 | 0  | 0.007843 | 0        | 0.024041 | 29098.3    | 51.8152    | 78.37943 | 22.46766 |
| 985  | 4187928.056 | 0.029576 | 0  | 0.009006 | 0        | 0.019382 | 30755.4    | 55.83412   | 78.38914 | 22.46782 |
| 986  | 2147223.74  | 0.021105 | 0  | 0.006189 | 0        | 0.011541 | 32386.5    | 78.214721  | 78.39885 | 22.46797 |
| 987  | 2555011.644 | 0.013987 | 1  | 0.002506 | 0        | 0.004778 | 40715.55   | 101.891811 | 78.40856 | 22.46813 |
| 988  | 1561994.166 | 0.010594 | 0  | 0.002213 | 0        | 0.001211 | 29216      | 232.112097 | 78.41827 | 22.46828 |
| 989  | 591485.9256 | 0.013868 | 0  | 0.00089  | 0.030063 | 0.000042 | 36010.5    | 386.323762 | 78.42798 | 22.46844 |
| 990  | 898424.5107 | 0.021631 | 0  | 0.001184 | 0        | 0.000281 | 55944.2    | 292.341117 | 78.43769 | 22.46859 |
| 991  | 2827655.182 | 0.029372 | 3  | 0.006255 | 0        | 0.00259  | 50486.2    | 93.312123  | 78.4474  | 22.46875 |
| 992  | 3729839.636 | 0.032007 | 1  | 0.015147 | 0        | 0.010361 | 54294.65   | 2.885339   | 78.45711 | 22.4689  |
| 993  | 3297422.225 | 0.033479 | 2  | 0.019855 | 0        | 0.019685 | 62922.25   | 0          | 78.46682 | 22.46906 |
| 994  | 3453703.095 | 0.03334  | 9  | 0.018375 | 0        | 0.02709  | 35868.35   | 0          | 78.47653 | 22.46921 |
| 995  | 4462537.746 | 0.024913 | 12 | 0.018363 | 0        | 0.03123  | 36495.45   | 0          | 78.48624 | 22.46936 |
| 996  | 1129649.849 | 0.016391 | 2  | 0.019233 | 0        | 0.033952 | 37367.7    | 0          | 78.49595 | 22.46951 |
| 997  | 2883389.317 | 0.00943  | 3  | 0.020837 | 0        | 0.036695 | 43801.4    | 0          | 78.50566 | 22.46966 |
| 998  | 3200190.255 | 0.005376 | 4  | 0.023794 | 0.001695 | 0.038934 | 34733.4    | 0          | 78.51537 | 22.46981 |
| 999  | 1976321.001 | 0.001733 | 5  | 0.028409 | 0.036005 | 0.037709 | 34564.7    | 0          | 78.52509 | 22.46996 |
| 1000 | 3533931.024 | 0.005175 | 7  | 0.034618 | 0.002517 | 0.033559 | 39645.7    | 0          | 78.5348  | 22.47011 |
| 1001 | 0           | 0        | 0  | 0.024108 | 0.857271 | 0.010711 | 0          | 0          | 77.95248 | 22.45113 |
| 1002 | 0           | 0        | 0  | 0.021074 | 0.983925 | 0.015811 | 0          | 0          | 77.96218 | 22.45131 |
| 1003 | 0           | 0        | 0  | 0.021714 | 0.835131 | 0.019332 | 0          | 0          | 77.97189 | 22.45149 |
| 1004 | 0           | 0        | 0  | 0.02184  | 0.81059  | 0.016333 | 0          | 0          | 77.98159 | 22.45167 |
| 1005 | 374379.0198 | 0.001256 | 0  | 0.020164 | 0.692971 | 0.00916  | 4607996.15 | 0          | 77.9913  | 22.45186 |
| 1006 | 326354.6406 | 0.001525 | 0  | 0.021452 | 0.795966 | 0.004178 | 0          | 0          | 78.001   | 22.45204 |
| 1007 | 461914.9495 | 0.001064 | 0  | 0.019152 | 0.78306  | 0.002354 | 0          | 0          | 78.01071 | 22.45222 |
| 1008 | 411681.8489 | 0.001949 | 0  | 0.010713 | 0.222003 | 0.001661 | 23846.8    | 12.643694  | 78.02041 | 22.4524  |
| 1009 | 439666.382  | 0.001604 | 0  | 0.005538 | 0.209355 | 0.003412 | 16922.05   | 24.1209    | 78.03012 | 22.45258 |
| 1010 | 451715.6603 | 0.004689 | 0  | 0.01106  | 0.128903 | 0.006307 | 19296.25   | 24.158177  | 78.03983 | 22.45275 |

|      |             |          |   |          |          |          |          |           |          |          |
|------|-------------|----------|---|----------|----------|----------|----------|-----------|----------|----------|
| 1011 | 544817.2873 | 0.013839 | 0 | 0.015791 | 0.082062 | 0.00906  | 32114.25 | 2.144967  | 78.04953 | 22.45293 |
| 1012 | 415019.6765 | 0.023478 | 3 | 0.014852 | 0.002035 | 0.015103 | 31643.1  | 1.014101  | 78.05924 | 22.45311 |
| 1013 | 376902.4918 | 0.032825 | 1 | 0.010995 | 0        | 0.019491 | 30131.7  | 8.837129  | 78.06894 | 22.45329 |
| 1014 | 501251.5891 | 0.042385 | 0 | 0.009523 | 0        | 0.025264 | 41565.1  | 44.171908 | 78.07865 | 22.45346 |
| 1015 | 476054.4436 | 0.051952 | 1 | 0.002532 | 0.011683 | 0.026337 | 30936.35 | 91.611659 | 78.08836 | 22.45364 |
| 1016 | 409450.3287 | 0.061524 | 1 | 0.001705 | 0        | 0.022412 | 29469.45 | 96.018965 | 78.09806 | 22.45381 |
| 1017 | 382357.0261 | 0.06748  | 1 | 0.001946 | 0        | 0.025537 | 32205.45 | 67.051143 | 78.10777 | 22.45399 |
| 1018 | 487373.4041 | 0.059733 | 1 | 0.002362 | 0        | 0.031815 | 39770.45 | 55.79919  | 78.11748 | 22.45416 |
| 1019 | 432856.3437 | 0.050326 | 2 | 0.006277 | 0        | 0.037814 | 32426.7  | 50.407198 | 78.12718 | 22.45433 |
| 1020 | 567117.2597 | 0.041238 | 1 | 0.010045 | 0        | 0.04091  | 32102.25 | 37.564358 | 78.13689 | 22.45451 |
| 1021 | 934386.668  | 0.031477 | 2 | 0.010435 | 0.000742 | 0.035528 | 38438.4  | 28.264841 | 78.1466  | 22.45468 |
| 1022 | 1215733.914 | 0.022984 | 1 | 0.011957 | 0        | 0.029712 | 30302.35 | 28.754013 | 78.15631 | 22.45485 |
| 1023 | 1334965.351 | 0.015403 | 1 | 0.010361 | 0        | 0.025871 | 31798.4  | 49.357245 | 78.16601 | 22.45502 |
| 1024 | 1039181.727 | 0.00721  | 1 | 0.004748 | 0.000068 | 0.025383 | 41300.55 | 55.862694 | 78.17572 | 22.45519 |
| 1025 | 952959.7483 | 0.001734 | 0 | 0.001913 | 0.072468 | 0.028452 | 29157.9  | 50.34301  | 78.18543 | 22.45536 |
| 1026 | 946332.5451 | 0.00711  | 1 | 0.002461 | 0.001099 | 0.033448 | 33123.5  | 50.445402 | 78.19514 | 22.45553 |
| 1027 | 1454396.706 | 0.015052 | 1 | 0.002735 | 0.0003   | 0.039901 | 39682.05 | 49.215142 | 78.20484 | 22.4557  |
| 1028 | 1625330.888 | 0.024075 | 0 | 0.003464 | 0        | 0.046245 | 35561.9  | 51.66386  | 78.21455 | 22.45587 |
| 1029 | 1999605.561 | 0.026425 | 0 | 0.00479  | 0        | 0.045856 | 44073.65 | 52.004039 | 78.22426 | 22.45603 |
| 1030 | 1830450.771 | 0.020104 | 0 | 0.007414 | 0        | 0.042551 | 41246.15 | 50.794459 | 78.23397 | 22.4562  |
| 1031 | 1247574.651 | 0.014646 | 0 | 0.011845 | 0        | 0.039282 | 55283.9  | 41.034781 | 78.24367 | 22.45637 |
| 1032 | 1459729.477 | 0.010672 | 0 | 0.008903 | 0        | 0.035927 | 48137.05 | 52.966187 | 78.25338 | 22.45653 |
| 1033 | 2114882.584 | 0.012054 | 0 | 0.005899 | 0        | 0.03208  | 31155.4  | 61.074586 | 78.26309 | 22.4567  |
| 1034 | 1464160.722 | 0.018244 | 0 | 0.011213 | 0        | 0.03131  | 34952.4  | 37.172738 | 78.2728  | 22.45686 |
| 1035 | 2001996.68  | 0.02621  | 0 | 0.014413 | 0        | 0.029008 | 27209.8  | 5.725388  | 78.28251 | 22.45703 |
| 1036 | 3183209.321 | 0.034951 | 0 | 0.019387 | 0        | 0.02864  | 31058.6  | 0.087278  | 78.29222 | 22.45719 |
| 1037 | 1911821.523 | 0.043924 | 0 | 0.02703  | 0        | 0.028218 | 38743.65 | 0         | 78.30192 | 22.45735 |
| 1038 | 2821349.529 | 0.053298 | 0 | 0.035826 | 0        | 0.022552 | 33653.45 | 0         | 78.31163 | 22.45751 |
| 1039 | 3882248.966 | 0.062365 | 0 | 0.043488 | 0        | 0.013314 | 33237.6  | 0         | 78.32134 | 22.45768 |
| 1040 | 2753673.807 | 0.070676 | 0 | 0.037507 | 0        | 0.0057   | 33606.15 | 0         | 78.33105 | 22.45784 |

|      |             |          |    |          |          |          |           |            |          |          |
|------|-------------|----------|----|----------|----------|----------|-----------|------------|----------|----------|
| 1041 | 4405579.025 | 0.073725 | 0  | 0.028171 | 0        | 0.00723  | 36984.2   | 0          | 78.34076 | 22.458   |
| 1042 | 4869906.425 | 0.06485  | 0  | 0.01871  | 0        | 0.01393  | 29678.3   | 0          | 78.35047 | 22.45816 |
| 1043 | 3866965.934 | 0.0553   | 4  | 0.009403 | 0        | 0.017934 | 28860.4   | 31.895762  | 78.36018 | 22.45832 |
| 1044 | 4573901.13  | 0.045764 | 1  | 0.001735 | 0        | 0.019147 | 35122.35  | 88.236004  | 78.36989 | 22.45848 |
| 1045 | 1644309.924 | 0.035941 | 0  | 0.001926 | 0        | 0.019895 | 30917.05  | 133.684713 | 78.3796  | 22.45863 |
| 1046 | 2134660.65  | 0.025787 | 0  | 0.002342 | 0        | 0.0161   | 31345     | 155.215382 | 78.38931 | 22.45879 |
| 1047 | 1040376.083 | 0.01622  | 0  | 0.000769 | 0        | 0.007855 | 38935.45  | 157.952502 | 78.39902 | 22.45895 |
| 1048 | 1132257.533 | 0.007637 | 0  | 0.00172  | 0.005972 | 0.003045 | 31483.15  | 214.454908 | 78.40872 | 22.4591  |
| 1049 | 810722.4747 | 0.002788 | 0  | 0.001193 | 0.133498 | 0.000595 | 25565.95  | 360.123515 | 78.41843 | 22.45926 |
| 1050 | 701132.1947 | 0.0092   | 0  | 0.000106 | 0        | 0.000063 | 29778.6   | 432.585236 | 78.42814 | 22.45942 |
| 1051 | 2528392.393 | 0.01871  | 0  | 0.002833 | 0        | 0.00176  | 33447.7   | 297.054721 | 78.43785 | 22.45957 |
| 1052 | 4042385.531 | 0.028171 | 0  | 0.010897 | 0        | 0.00696  | 36058.3   | 50.838066  | 78.44756 | 22.45972 |
| 1053 | 5319565.881 | 0.0372   | 5  | 0.018562 | 0        | 0.013245 | 36830.85  | 0          | 78.45727 | 22.45988 |
| 1054 | 4852466.963 | 0.041836 | 9  | 0.026299 | 0        | 0.021373 | 42298.2   | 0          | 78.46698 | 22.46003 |
| 1055 | 3261626.585 | 0.037632 | 9  | 0.027951 | 0        | 0.027849 | 45584.3   | 0          | 78.47669 | 22.46018 |
| 1056 | 3294843.678 | 0.029674 | 3  | 0.027943 | 0        | 0.032549 | 51906.9   | 0          | 78.4864  | 22.46033 |
| 1057 | 2673160.053 | 0.022719 | 0  | 0.028481 | 0        | 0.034927 | 65023.4   | 0          | 78.49611 | 22.46049 |
| 1058 | 3278857.088 | 0.016844 | 4  | 0.029652 | 0        | 0.035172 | 47646.6   | 0          | 78.50582 | 22.46064 |
| 1059 | 2584291.835 | 0.010718 | 10 | 0.032028 | 0        | 0.034692 | 41934.45  | 0          | 78.51554 | 22.46079 |
| 1060 | 3704549.254 | 0.002971 | 4  | 0.036142 | 0.008916 | 0.032594 | 43116.3   | 0          | 78.52525 | 22.46093 |
| 1061 | 1432212.596 | 0.001817 | 2  | 0.041301 | 0.029766 | 0.027621 | 34101.25  | 0          | 78.53496 | 22.46108 |
| 1062 | 1686035.844 | 0.004238 | 3  | 0.047446 | 0.026924 | 0.022051 | 32816.15  | 0          | 78.54467 | 22.46123 |
| 1063 | 215561.7623 | 0.001651 | 0  | 0.029763 | 0.717105 | 0.012505 | 4298313.8 | 0          | 77.96238 | 22.44229 |
| 1064 | 236946.0197 | 0.00165  | 0  | 0.030524 | 0.700188 | 0.014181 | 4520205.9 | 0          | 77.97208 | 22.44247 |
| 1065 | 439374.5872 | 0.00165  | 0  | 0.030925 | 0.29404  | 0.011725 | 253682.35 | 0          | 77.98179 | 22.44265 |
| 1066 | 272047.8154 | 0.001428 | 0  | 0.029677 | 0.757191 | 0.007138 | 0         | 0          | 77.99149 | 22.44283 |
| 1067 | 464575.2456 | 0.001703 | 0  | 0.028337 | 0.351653 | 0.001694 | 1598449.8 | 0          | 78.0012  | 22.44302 |
| 1068 | 566311.2039 | 0.004137 | 0  | 0.01895  | 0.010619 | 0.001649 | 107991.7  | 0          | 78.0109  | 22.4432  |
| 1069 | 516482.6728 | 0.007298 | 0  | 0.008969 | 0        | 0.003797 | 36171.65  | 19.755465  | 78.02061 | 22.44337 |
| 1070 | 401490.6423 | 0.00776  | 2  | 0.00173  | 0        | 0.005306 | 41536.05  | 37.632719  | 78.03031 | 22.44355 |

|      |             |          |   |          |          |          |          |            |          |          |
|------|-------------|----------|---|----------|----------|----------|----------|------------|----------|----------|
| 1071 | 416607.941  | 0.009507 | 0 | 0.005614 | 0.008553 | 0.008254 | 49483.9  | 57.006075  | 78.04002 | 22.44373 |
| 1072 | 399485.0367 | 0.016891 | 0 | 0.008675 | 0.00026  | 0.008808 | 47948.1  | 35.775337  | 78.04972 | 22.44391 |
| 1073 | 542361.179  | 0.025491 | 0 | 0.015473 | 0.070456 | 0.014222 | 36513.95 | 2.994693   | 78.05943 | 22.44409 |
| 1074 | 1121743.601 | 0.034448 | 0 | 0.017506 | 0.002063 | 0.022614 | 32446.65 | 0          | 78.06913 | 22.44426 |
| 1075 | 1212727.657 | 0.043654 | 3 | 0.009041 | 0.001354 | 0.03015  | 38094.5  | 22.862864  | 78.07884 | 22.44444 |
| 1076 | 525925.8324 | 0.05273  | 0 | 0.001895 | 0.002678 | 0.029294 | 31949.95 | 62.89526   | 78.08855 | 22.44462 |
| 1077 | 605010.6071 | 0.062259 | 2 | 0.005445 | 0        | 0.027086 | 31437.8  | 79.504103  | 78.09825 | 22.44479 |
| 1078 | 1531893.046 | 0.067557 | 0 | 0.006425 | 0        | 0.028841 | 38029.7  | 47.345975  | 78.10796 | 22.44496 |
| 1079 | 1518880.821 | 0.059328 | 1 | 0.005721 | 0        | 0.032297 | 32735.9  | 55.653136  | 78.11766 | 22.44514 |
| 1080 | 811538.1523 | 0.050048 | 2 | 0.001894 | 0.002408 | 0.037386 | 32660.85 | 54.660648  | 78.12737 | 22.44531 |
| 1081 | 849327.2186 | 0.040745 | 2 | 0.002692 | 0.002452 | 0.03755  | 39647.9  | 51.235263  | 78.13708 | 22.44548 |
| 1082 | 918947.8439 | 0.032117 | 3 | 0.002416 | 0.002523 | 0.030083 | 32437.15 | 51.62369   | 78.14678 | 22.44566 |
| 1083 | 1230422.414 | 0.024187 | 0 | 0.002927 | 0        | 0.023195 | 26924.3  | 77.246769  | 78.15649 | 22.44583 |
| 1084 | 1400950.809 | 0.015542 | 3 | 0.002197 | 0.015201 | 0.017485 | 30820.35 | 95.798241  | 78.1662  | 22.446   |
| 1085 | 906286.9325 | 0.006968 | 0 | 0.001735 | 0.000136 | 0.017134 | 40379.85 | 92.712619  | 78.1759  | 22.44617 |
| 1086 | 1792461.036 | 0.001742 | 1 | 0.005701 | 0.106844 | 0.021758 | 24614.4  | 65.094121  | 78.18561 | 22.44634 |
| 1087 | 1335510.102 | 0.006105 | 0 | 0.005599 | 0        | 0.028381 | 26521.05 | 41.889783  | 78.19532 | 22.44651 |
| 1088 | 1394944.628 | 0.015569 | 0 | 0.006032 | 0        | 0.035739 | 35062.7  | 43.965507  | 78.20502 | 22.44668 |
| 1089 | 1308046.129 | 0.021675 | 0 | 0.003755 | 0        | 0.042612 | 27199.45 | 51.480024  | 78.21473 | 22.44684 |
| 1090 | 1766977.754 | 0.020074 | 0 | 0.002335 | 0        | 0.042311 | 26760.65 | 64.657003  | 78.22444 | 22.44701 |
| 1091 | 1599669.666 | 0.013612 | 0 | 0.00168  | 0        | 0.039012 | 34307.45 | 89.000214  | 78.23415 | 22.44718 |
| 1092 | 1555036.959 | 0.00737  | 1 | 0.004091 | 0        | 0.034338 | 26482.3  | 99.640671  | 78.24385 | 22.44734 |
| 1093 | 1823493.873 | 0.002596 | 2 | 0.002091 | 0.024301 | 0.03042  | 29059.3  | 103.981207 | 78.25356 | 22.44751 |
| 1094 | 1451510.725 | 0.00534  | 0 | 0.001067 | 0.003358 | 0.02751  | 47096.35 | 95.172582  | 78.26327 | 22.44767 |
| 1095 | 2652661.562 | 0.013977 | 0 | 0.004491 | 0        | 0.026234 | 56264.45 | 67.319817  | 78.27298 | 22.44784 |
| 1096 | 2155582.882 | 0.023035 | 0 | 0.006752 | 0        | 0.023916 | 49306    | 17.537722  | 78.28268 | 22.448   |
| 1097 | 2709088.47  | 0.032196 | 0 | 0.014582 | 0        | 0.026169 | 43674.05 | 1.96891    | 78.29239 | 22.44817 |
| 1098 | 2763877.744 | 0.04163  | 0 | 0.024083 | 0        | 0.028135 | 40892.45 | 0          | 78.3021  | 22.44833 |
| 1099 | 2470778.875 | 0.05022  | 0 | 0.03332  | 0        | 0.02516  | 30243.1  | 0          | 78.31181 | 22.44849 |
| 1100 | 2929248.819 | 0.05761  | 0 | 0.042156 | 0        | 0.018596 | 33310.25 | 0          | 78.32152 | 22.44865 |

|      |             |          |   |          |          |          |            |            |          |          |
|------|-------------|----------|---|----------|----------|----------|------------|------------|----------|----------|
| 1101 | 3906018.754 | 0.064771 | 0 | 0.037835 | 0        | 0.013708 | 39263.6    | 0          | 78.33122 | 22.44881 |
| 1102 | 3742472.496 | 0.071118 | 2 | 0.028359 | 0        | 0.013688 | 33166.15   | 0          | 78.34093 | 22.44897 |
| 1103 | 3236790.789 | 0.064968 | 3 | 0.018991 | 0        | 0.0159   | 32967.8    | 0          | 78.35064 | 22.44913 |
| 1104 | 2667049.754 | 0.055439 | 0 | 0.010037 | 0        | 0.015538 | 39318.9    | 25.921016  | 78.36035 | 22.44929 |
| 1105 | 4322221.431 | 0.045327 | 0 | 0.002308 | 0        | 0.015331 | 32452.85   | 108.368196 | 78.37006 | 22.44945 |
| 1106 | 2688666.658 | 0.035066 | 0 | 0.001309 | 0        | 0.018469 | 30545.75   | 144.75269  | 78.37977 | 22.44961 |
| 1107 | 1811279.216 | 0.025313 | 0 | 0.000896 | 0        | 0.0163   | 32566.7    | 163.224506 | 78.38948 | 22.44977 |
| 1108 | 1396144.571 | 0.015782 | 0 | 0.001045 | 0        | 0.008017 | 40280.6    | 147.329232 | 78.39918 | 22.44992 |
| 1109 | 1222235.12  | 0.007407 | 3 | 0.001858 | 0.000484 | 0.003567 | 29846.95   | 191.468777 | 78.40889 | 22.45008 |
| 1110 | 943622.4301 | 0.004327 | 0 | 0.000728 | 0.076584 | 0.002163 | 31013.75   | 269.99408  | 78.4186  | 22.45024 |
| 1111 | 1720174.185 | 0.010037 | 0 | 0.002392 | 0        | 0.002233 | 41096.1    | 314.04575  | 78.42831 | 22.45039 |
| 1112 | 3895044.828 | 0.018991 | 1 | 0.00663  | 0        | 0.006609 | 35743      | 135.179691 | 78.43802 | 22.45054 |
| 1113 | 6620561.696 | 0.028359 | 0 | 0.013498 | 0        | 0.013501 | 34599.9    | 6.094808   | 78.44773 | 22.4507  |
| 1114 | 5767763.1   | 0.037835 | 4 | 0.022411 | 0        | 0.019611 | 43727.55   | 0          | 78.45744 | 22.45085 |
| 1115 | 6065192.331 | 0.046239 | 4 | 0.030921 | 0        | 0.026101 | 34473.05   | 0          | 78.46715 | 22.451   |
| 1116 | 6106268.343 | 0.042596 | 5 | 0.036527 | 0        | 0.031066 | 34314.45   | 0          | 78.47686 | 22.45116 |
| 1117 | 3080807.626 | 0.035601 | 0 | 0.03683  | 0        | 0.032472 | 42443.8    | 0          | 78.48657 | 22.45131 |
| 1118 | 2334207.094 | 0.028867 | 2 | 0.037113 | 0        | 0.031587 | 34977.45   | 0          | 78.49628 | 22.45146 |
| 1119 | 4441980.914 | 0.021812 | 2 | 0.038303 | 0        | 0.030768 | 32870.8    | 0          | 78.50599 | 22.45161 |
| 1120 | 1015496.619 | 0.012922 | 2 | 0.040559 | 0        | 0.030019 | 44839.9    | 0          | 78.5157  | 22.45176 |
| 1121 | 3402685.228 | 0.004956 | 4 | 0.043958 | 0.003097 | 0.026385 | 60380.05   | 0          | 78.52541 | 22.45191 |
| 1122 | 2442135.553 | 0.004079 | 0 | 0.048575 | 0.018596 | 0.021375 | 51794.75   | 0          | 78.53512 | 22.45206 |
| 1123 | 2636230     | 0.003868 | 3 | 0.054369 | 0.023734 | 0.015082 | 51515.1    | 0          | 78.54483 | 22.45221 |
| 1124 | 882576.9453 | 0.002247 | 0 | 0.06099  | 0.043625 | 0.009867 | 66310.8    | 0          | 78.55454 | 22.45235 |
| 1125 | 302939.7996 | 0.000815 | 0 | 0.039218 | 0.686375 | 0.008849 | 1447563.25 | 0          | 77.97228 | 22.43345 |
| 1126 | 447792.6853 | 0.001033 | 0 | 0.039481 | 0.459496 | 0.007069 | 93202.35   | 0          | 77.98198 | 22.43363 |
| 1127 | 462776.3062 | 0.002431 | 0 | 0.037319 | 0.053947 | 0.0064   | 24087.55   | 0          | 77.99169 | 22.43381 |
| 1128 | 388736.4578 | 0.006787 | 1 | 0.029336 | 0        | 0.005792 | 29748.45   | 0          | 78.00139 | 22.43399 |
| 1129 | 521602.0927 | 0.011304 | 0 | 0.020538 | 0        | 0.006213 | 36139.55   | 0          | 78.0111  | 22.43417 |
| 1130 | 569423.9778 | 0.015185 | 0 | 0.012714 | 0        | 0.010112 | 32891.55   | 8.414498   | 78.0208  | 22.43435 |

|      |             |          |   |          |          |          |          |            |          |          |
|------|-------------|----------|---|----------|----------|----------|----------|------------|----------|----------|
| 1131 | 452593.0593 | 0.016899 | 0 | 0.006754 | 0        | 0.012592 | 31773.7  | 39.903875  | 78.0305  | 22.43453 |
| 1132 | 596062.774  | 0.017885 | 0 | 0.00196  | 0        | 0.0116   | 38111.25 | 63.928867  | 78.04021 | 22.43471 |
| 1133 | 482346.4644 | 0.022774 | 0 | 0.003429 | 0        | 0.010871 | 30655.35 | 55.314448  | 78.04991 | 22.43489 |
| 1134 | 572798.2593 | 0.029552 | 0 | 0.012474 | 0        | 0.017547 | 38302.6  | 20.171706  | 78.05962 | 22.43507 |
| 1135 | 1552153.835 | 0.037873 | 1 | 0.014826 | 0        | 0.0253   | 54872.15 | 8.693151   | 78.06932 | 22.43524 |
| 1136 | 1711301.509 | 0.046506 | 3 | 0.009306 | 0        | 0.031945 | 48469.95 | 41.786839  | 78.07903 | 22.43542 |
| 1137 | 757211.6561 | 0.055261 | 0 | 0.003158 | 0        | 0.033247 | 46641.8  | 58.293989  | 78.08873 | 22.43559 |
| 1138 | 580839.9577 | 0.064217 | 1 | 0.004172 | 0        | 0.033254 | 40237.7  | 40.51406   | 78.09844 | 22.43577 |
| 1139 | 2007639.328 | 0.066379 | 2 | 0.012972 | 0.002177 | 0.03314  | 36799.85 | 9.8331     | 78.10815 | 22.43594 |
| 1140 | 3243646.59  | 0.056424 | 0 | 0.011608 | 0        | 0.035284 | 28328.65 | 14.010453  | 78.11785 | 22.43612 |
| 1141 | 1178052.316 | 0.046428 | 2 | 0.006339 | 0        | 0.038727 | 30360.7  | 34.149372  | 78.12756 | 22.43629 |
| 1142 | 1340883.671 | 0.037086 | 3 | 0.007165 | 0        | 0.036193 | 37176.75 | 38.075297  | 78.13726 | 22.43646 |
| 1143 | 1206419.632 | 0.028214 | 0 | 0.006193 | 0        | 0.028339 | 31348.85 | 64.990262  | 78.14697 | 22.43663 |
| 1144 | 675283.3057 | 0.019458 | 0 | 0.002352 | 0        | 0.020961 | 25596.6  | 92.044958  | 78.15667 | 22.4368  |
| 1145 | 820787.0164 | 0.011963 | 0 | 0.00337  | 0.009843 | 0.015268 | 36766.45 | 128.890955 | 78.16638 | 22.43698 |
| 1146 | 788458.4819 | 0.005745 | 0 | 0.002399 | 0        | 0.014762 | 30691.35 | 108.902148 | 78.17609 | 22.43715 |
| 1147 | 2184650.561 | 0.002041 | 0 | 0.008071 | 0.055815 | 0.019541 | 24830.75 | 60.041682  | 78.18579 | 22.43732 |
| 1148 | 1659916.7   | 0.008791 | 0 | 0.011473 | 0        | 0.025873 | 34947    | 21.347235  | 78.1955  | 22.43748 |
| 1149 | 1514214.362 | 0.01477  | 0 | 0.011747 | 0        | 0.03324  | 28051.65 | 25.499829  | 78.20521 | 22.43765 |
| 1150 | 1330774.872 | 0.013428 | 1 | 0.009737 | 0        | 0.040332 | 28774.25 | 34.93414   | 78.21491 | 22.43782 |
| 1151 | 1104722.149 | 0.012092 | 0 | 0.00767  | 0        | 0.040129 | 27920.45 | 71.485236  | 78.22462 | 22.43799 |
| 1152 | 1614110.928 | 0.007894 | 0 | 0.003567 | 0        | 0.03622  | 31984.7  | 104.824388 | 78.23432 | 22.43815 |
| 1153 | 1854193.214 | 0.001857 | 0 | 0.001563 | 0.041358 | 0.031744 | 27965.1  | 98.387023  | 78.24403 | 22.43832 |
| 1154 | 1684839.913 | 0.001547 | 1 | 0.003415 | 0.046968 | 0.027796 | 30910.35 | 93.762274  | 78.25374 | 22.43849 |
| 1155 | 1123869.159 | 0.003031 | 0 | 0.003082 | 0.028766 | 0.025343 | 35108.25 | 78.708325  | 78.26345 | 22.43865 |
| 1156 | 1211089.31  | 0.011538 | 0 | 0.003992 | 0.00415  | 0.024337 | 30966.75 | 49.226321  | 78.27315 | 22.43882 |
| 1157 | 3069348.035 | 0.02041  | 0 | 0.006292 | 0        | 0.023619 | 32493.95 | 14.573889  | 78.28286 | 22.43898 |
| 1158 | 2402432.194 | 0.02936  | 0 | 0.014413 | 0        | 0.025577 | 40076.75 | 1.566555   | 78.29257 | 22.43914 |
| 1159 | 2392125.091 | 0.037287 | 1 | 0.023654 | 0        | 0.02567  | 50707.25 | 0          | 78.30227 | 22.4393  |
| 1160 | 1659771.712 | 0.044087 | 0 | 0.033089 | 0        | 0.022696 | 50489.85 | 0          | 78.31198 | 22.43947 |

|      |             |          |   |          |          |          |          |            |          |          |
|------|-------------|----------|---|----------|----------|----------|----------|------------|----------|----------|
| 1161 | 2873380.759 | 0.051331 | 0 | 0.042363 | 0        | 0.02145  | 57862.05 | 0          | 78.32169 | 22.43963 |
| 1162 | 4082436.945 | 0.059213 | 0 | 0.040005 | 0        | 0.020093 | 61167.55 | 0          | 78.3314  | 22.43979 |
| 1163 | 4890675.895 | 0.067821 | 1 | 0.03073  | 0        | 0.018908 | 46885.2  | 0          | 78.3411  | 22.43995 |
| 1164 | 1815643.346 | 0.066286 | 0 | 0.022038 | 0        | 0.018096 | 34864.85 | 0          | 78.35081 | 22.44011 |
| 1165 | 4081949.838 | 0.056369 | 1 | 0.01344  | 0        | 0.016071 | 37069.4  | 18.481476  | 78.36052 | 22.44027 |
| 1166 | 3990569.018 | 0.046281 | 0 | 0.004303 | 0        | 0.015323 | 33153.5  | 96.03211   | 78.37023 | 22.44043 |
| 1167 | 2055393.283 | 0.037017 | 0 | 0.003286 | 0        | 0.019144 | 29892.05 | 109.161255 | 78.37994 | 22.44058 |
| 1168 | 3799576.733 | 0.028359 | 0 | 0.006308 | 0        | 0.018995 | 37869.9  | 88.112958  | 78.38964 | 22.44074 |
| 1169 | 2919042.401 | 0.020537 | 0 | 0.00728  | 0        | 0.012912 | 30883.25 | 68.860362  | 78.39935 | 22.4409  |
| 1170 | 2641499.9   | 0.014933 | 0 | 0.006645 | 0        | 0.009337 | 32054.95 | 95.392518  | 78.40906 | 22.44105 |
| 1171 | 1323351.048 | 0.013653 | 1 | 0.001616 | 0        | 0.007313 | 41870.5  | 154.627999 | 78.41877 | 22.44121 |
| 1172 | 1701765.341 | 0.015991 | 0 | 0.003975 | 0        | 0.009569 | 33986.5  | 127.85311  | 78.42848 | 22.44137 |
| 1173 | 5526594.926 | 0.0225   | 2 | 0.012287 | 0        | 0.013199 | 33810.4  | 20.208039  | 78.43819 | 22.44152 |
| 1174 | 6958903.146 | 0.030815 | 6 | 0.018859 | 0        | 0.019351 | 31236.5  | 0          | 78.44789 | 22.44167 |
| 1175 | 5956507.879 | 0.039706 | 4 | 0.025995 | 0.000191 | 0.026342 | 40719.35 | 0          | 78.4576  | 22.44183 |
| 1176 | 3465717.435 | 0.048726 | 6 | 0.034026 | 0        | 0.0324   | 33265.65 | 0          | 78.46731 | 22.44198 |
| 1177 | 6648087.31  | 0.048528 | 1 | 0.042444 | 0        | 0.032094 | 34142.75 | 0          | 78.47702 | 22.44213 |
| 1178 | 2799088.924 | 0.04153  | 0 | 0.045329 | 0        | 0.028659 | 43129.05 | 0          | 78.48673 | 22.44228 |
| 1179 | 2047258.949 | 0.03401  | 3 | 0.046153 | 0        | 0.027528 | 35674.85 | 0          | 78.49644 | 22.44243 |
| 1180 | 3521595.902 | 0.025619 | 4 | 0.047725 | 0        | 0.025944 | 33968.65 | 0          | 78.50615 | 22.44258 |
| 1181 | 2771390.185 | 0.018169 | 3 | 0.049801 | 0        | 0.022785 | 44062.55 | 0          | 78.51586 | 22.44273 |
| 1182 | 3573597.594 | 0.012922 | 1 | 0.052704 | 0        | 0.019518 | 30745.15 | 0          | 78.52557 | 22.44288 |
| 1183 | 1858614.761 | 0.011713 | 0 | 0.056129 | 0        | 0.015987 | 34784.35 | 0          | 78.53528 | 22.44303 |
| 1184 | 464463.9159 | 0.001206 | 0 | 0.043609 | 0.131646 | 0.005727 | 23925.6  | 0          | 77.98218 | 22.42461 |
| 1185 | 457652.1235 | 0.000864 | 0 | 0.039052 | 0.393147 | 0.005024 | 18296.5  | 0          | 77.99188 | 22.42479 |
| 1186 | 729033.9462 | 0.003198 | 0 | 0.033115 | 0.060556 | 0.008082 | 34829.7  | 0          | 78.00158 | 22.42497 |
| 1187 | 687369.7105 | 0.01101  | 0 | 0.026112 | 0        | 0.012017 | 29028.15 | 0          | 78.01129 | 22.42515 |
| 1188 | 504802.1092 | 0.019975 | 2 | 0.02005  | 0        | 0.01623  | 32281.45 | 0          | 78.02099 | 22.42533 |
| 1189 | 489787.387  | 0.025346 | 0 | 0.012691 | 0        | 0.017892 | 39926.15 | 14.85921   | 78.0307  | 22.42551 |
| 1190 | 510840.6615 | 0.026293 | 2 | 0.005675 | 0        | 0.014023 | 32244.45 | 58.285042  | 78.0404  | 22.42569 |

|      |             |          |   |          |          |          |          |            |          |          |
|------|-------------|----------|---|----------|----------|----------|----------|------------|----------|----------|
| 1191 | 455976.744  | 0.029827 | 0 | 0.001976 | 0        | 0.015679 | 32105.45 | 63.782981  | 78.0501  | 22.42587 |
| 1192 | 618163.4102 | 0.035108 | 2 | 0.008854 | 0        | 0.022057 | 32167.75 | 47.970655  | 78.05981 | 22.42604 |
| 1193 | 1847037.353 | 0.04241  | 1 | 0.007779 | 0        | 0.027962 | 40879.95 | 35.979686  | 78.06951 | 22.42622 |
| 1194 | 2004523.35  | 0.050477 | 0 | 0.003187 | 0        | 0.028445 | 32495.75 | 46.431534  | 78.07922 | 22.4264  |
| 1195 | 734276.2989 | 0.058933 | 1 | 0.002321 | 0        | 0.029685 | 32863.3  | 48.564931  | 78.08892 | 22.42657 |
| 1196 | 1063498.927 | 0.067818 | 0 | 0.00775  | 0.001393 | 0.030537 | 54022.65 | 29.283817  | 78.09863 | 22.42675 |
| 1197 | 1042122.976 | 0.0651   | 2 | 0.016326 | 0        | 0.031209 | 48332.3  | 1.638697   | 78.10833 | 22.42692 |
| 1198 | 1143091.794 | 0.055112 | 0 | 0.016499 | 0        | 0.033954 | 48762.35 | 0          | 78.11804 | 22.42709 |
| 1199 | 972801.213  | 0.045536 | 2 | 0.013072 | 0        | 0.038112 | 54318.4  | 6.821964   | 78.12774 | 22.42727 |
| 1200 | 761192.1651 | 0.035963 | 1 | 0.011619 | 0        | 0.036287 | 40029.55 | 26.164118  | 78.13745 | 22.42744 |
| 1201 | 1176657.035 | 0.026338 | 0 | 0.005778 | 0        | 0.028558 | 32819.65 | 54.083543  | 78.14715 | 22.42761 |
| 1202 | 971068.6304 | 0.016945 | 0 | 0.001671 | 0.00044  | 0.022432 | 31106.65 | 63.916133  | 78.15686 | 22.42778 |
| 1203 | 1473731.709 | 0.007615 | 0 | 0.003467 | 0        | 0.018637 | 37056.35 | 102.764507 | 78.16656 | 22.42795 |
| 1204 | 1166204.756 | 0.001856 | 0 | 0.001234 | 0.092846 | 0.018287 | 25737.9  | 98.849803  | 78.17627 | 22.42812 |
| 1205 | 2696306.934 | 0.003592 | 1 | 0.003573 | 0.042994 | 0.02147  | 29054.15 | 80.889506  | 78.18597 | 22.42829 |
| 1206 | 2868588.265 | 0.006551 | 0 | 0.004797 | 0        | 0.026699 | 35070.6  | 48.30874   | 78.19568 | 22.42846 |
| 1207 | 2462856.342 | 0.007328 | 0 | 0.004589 | 0        | 0.032564 | 27869.6  | 46.968628  | 78.20539 | 22.42863 |
| 1208 | 2502025.843 | 0.005526 | 0 | 0.003358 | 0.008495 | 0.037676 | 27297.05 | 49.334202  | 78.21509 | 22.4288  |
| 1209 | 2408907.214 | 0.003997 | 0 | 0.002429 | 0.021262 | 0.037588 | 34954.2  | 55.577861  | 78.2248  | 22.42896 |
| 1210 | 2567757.845 | 0.003578 | 1 | 0.001932 | 0.021317 | 0.03377  | 29223.3  | 67.660166  | 78.2345  | 22.42913 |
| 1211 | 2038056.573 | 0.003702 | 1 | 0.005859 | 0.049788 | 0.030458 | 31428.8  | 58.527052  | 78.24421 | 22.4293  |
| 1212 | 2671237.145 | 0.004571 | 1 | 0.010644 | 0        | 0.028417 | 41654.25 | 25.345056  | 78.25392 | 22.42946 |
| 1213 | 1897553.443 | 0.001989 | 1 | 0.010995 | 0.020798 | 0.025959 | 34260.4  | 16.423278  | 78.26362 | 22.42963 |
| 1214 | 2691247.819 | 0.008967 | 1 | 0.013439 | 0        | 0.024204 | 32396.15 | 9.888545   | 78.27333 | 22.42979 |
| 1215 | 2994470.809 | 0.017406 | 0 | 0.014413 | 0        | 0.023644 | 30516.55 | 2.497375   | 78.28304 | 22.42996 |
| 1216 | 1430014.222 | 0.024204 | 0 | 0.019387 | 0        | 0.023621 | 40006.05 | 0          | 78.29274 | 22.43012 |
| 1217 | 1417704.958 | 0.031101 | 1 | 0.02655  | 0        | 0.02067  | 34238    | 0          | 78.30245 | 22.43028 |
| 1218 | 2413292.719 | 0.038408 | 1 | 0.035215 | 0        | 0.017391 | 34743.5  | 0          | 78.31216 | 22.43044 |
| 1219 | 3154089.062 | 0.046511 | 0 | 0.043734 | 0        | 0.018656 | 38188.55 | 0          | 78.32186 | 22.4306  |
| 1220 | 3364547.587 | 0.055473 | 0 | 0.039585 | 0        | 0.021799 | 35182.4  | 0          | 78.33157 | 22.43076 |

|      |             |          |    |          |          |          |          |            |          |          |
|------|-------------|----------|----|----------|----------|----------|----------|------------|----------|----------|
| 1221 | 3319773.629 | 0.064478 | 0  | 0.030178 | 0        | 0.020505 | 45223.3  | 0          | 78.34128 | 22.43092 |
| 1222 | 2090455.831 | 0.067403 | 1  | 0.020214 | 0        | 0.017314 | 62283.1  | 0          | 78.35098 | 22.43108 |
| 1223 | 1798029.77  | 0.058351 | 0  | 0.010448 | 0        | 0.01573  | 48553.8  | 23.857945  | 78.36069 | 22.43124 |
| 1224 | 3889809.213 | 0.049716 | 0  | 0.002218 | 0        | 0.015624 | 49214    | 59.041355  | 78.3704  | 22.4314  |
| 1225 | 2684644.878 | 0.041498 | 0  | 0.004872 | 0        | 0.019957 | 45197.25 | 62.656534  | 78.38011 | 22.43156 |
| 1226 | 1987009.223 | 0.034001 | 0  | 0.01288  | 0        | 0.023618 | 36563.95 | 12.03849   | 78.38981 | 22.43172 |
| 1227 | 2613919.392 | 0.027139 | 0  | 0.014714 | 0        | 0.019806 | 27577.2  | 0.667468   | 78.39952 | 22.43187 |
| 1228 | 1828402.897 | 0.023201 | 0  | 0.008542 | 0        | 0.016877 | 30002.85 | 70.667407  | 78.40923 | 22.43203 |
| 1229 | 1797743.585 | 0.022403 | 2  | 0.001629 | 0        | 0.015289 | 41740.65 | 127.261373 | 78.41894 | 22.43219 |
| 1230 | 4735966.862 | 0.023865 | 0  | 0.006361 | 0        | 0.017012 | 33938.45 | 93.047069  | 78.42864 | 22.43234 |
| 1231 | 6786905.191 | 0.028448 | 7  | 0.014187 | 0        | 0.020935 | 34438.25 | 11.268856  | 78.43835 | 22.43249 |
| 1232 | 5199286.147 | 0.035397 | 11 | 0.018383 | 0        | 0.026262 | 43161.95 | 0.284936   | 78.44806 | 22.43265 |
| 1233 | 6594990.759 | 0.043294 | 15 | 0.023867 | 0.000433 | 0.030722 | 35822.4  | 0          | 78.45777 | 22.4328  |
| 1234 | 6310296.67  | 0.050468 | 2  | 0.031752 | 0        | 0.030825 | 35670.05 | 0          | 78.46748 | 22.43295 |
| 1235 | 6123635.78  | 0.053166 | 0  | 0.041004 | 0        | 0.027208 | 43151.75 | 0          | 78.47718 | 22.43311 |
| 1236 | 1866568.922 | 0.046909 | 5  | 0.049797 | 0        | 0.023353 | 36513.3  | 0          | 78.48689 | 22.43326 |
| 1237 | 1608084.714 | 0.038743 | 4  | 0.054669 | 0        | 0.021481 | 35699.2  | 0          | 78.4966  | 22.43341 |
| 1238 | 1960180.727 | 0.031101 | 7  | 0.056378 | 0        | 0.01926  | 35577.6  | 0          | 78.50631 | 22.43356 |
| 1239 | 4547485.78  | 0.024937 | 4  | 0.058309 | 0        | 0.015246 | 44022.65 | 0          | 78.51602 | 22.43371 |
| 1240 | 529537.535  | 0.001826 | 0  | 0.031483 | 0.118786 | 0.006582 | 27101.3  | 0          | 77.99208 | 22.41577 |
| 1241 | 601498.8916 | 0.004368 | 1  | 0.029145 | 0.003502 | 0.010113 | 34504.55 | 0          | 78.00178 | 22.41595 |
| 1242 | 694274.6643 | 0.011087 | 0  | 0.028612 | 0        | 0.016163 | 32285.15 | 0          | 78.01148 | 22.41613 |
| 1243 | 663561.0783 | 0.019983 | 0  | 0.025402 | 0        | 0.021408 | 29805.95 | 0          | 78.02118 | 22.41631 |
| 1244 | 502055.8622 | 0.028969 | 0  | 0.01747  | 0        | 0.021344 | 38861.55 | 0.161233   | 78.03089 | 22.41649 |
| 1245 | 473988.8567 | 0.034507 | 1  | 0.009951 | 0        | 0.018319 | 32746.7  | 36.332967  | 78.04059 | 22.41667 |
| 1246 | 450077.199  | 0.037632 | 1  | 0.002619 | 0        | 0.01657  | 32360.25 | 72.260725  | 78.0503  | 22.41684 |
| 1247 | 492819.9882 | 0.04241  | 1  | 0.004421 | 0        | 0.020437 | 40053.25 | 89.499879  | 78.06    | 22.41702 |
| 1248 | 447734.755  | 0.048627 | 0  | 0.002133 | 0        | 0.025312 | 30942.5  | 63.055309  | 78.0697  | 22.4172  |
| 1249 | 392647.9726 | 0.055813 | 0  | 0.004967 | 0        | 0.023619 | 33126.9  | 49.505584  | 78.07941 | 22.41737 |
| 1250 | 531986.2902 | 0.063927 | 0  | 0.00911  | 0.000909 | 0.024166 | 39150.95 | 32.687417  | 78.08911 | 22.41755 |

|      |             |          |   |          |          |          |          |           |          |          |
|------|-------------|----------|---|----------|----------|----------|----------|-----------|----------|----------|
| 1251 | 501909.9997 | 0.071388 | 0 | 0.014421 | 0        | 0.024266 | 32100.55 | 9.851102  | 78.09882 | 22.41772 |
| 1252 | 1576958.673 | 0.064884 | 1 | 0.018101 | 0        | 0.025851 | 31438.6  | 0         | 78.10852 | 22.4179  |
| 1253 | 710707.8616 | 0.055439 | 0 | 0.011672 | 0        | 0.029455 | 32013.35 | 8.622384  | 78.11822 | 22.41807 |
| 1254 | 830206.5071 | 0.045931 | 1 | 0.007005 | 0        | 0.033957 | 39052.6  | 31.671082 | 78.12793 | 22.41824 |
| 1255 | 1111031.491 | 0.036462 | 0 | 0.004347 | 0        | 0.036612 | 39081.05 | 46.769386 | 78.13763 | 22.41842 |
| 1256 | 780336.4038 | 0.027072 | 0 | 0.001817 | 0        | 0.030906 | 46030.25 | 50.0926   | 78.14734 | 22.41859 |
| 1257 | 466277.704  | 0.017885 | 0 | 0.005826 | 0        | 0.025361 | 66527.45 | 50.025739 | 78.15704 | 22.41876 |
| 1258 | 817275.7819 | 0.00943  | 0 | 0.00634  | 0        | 0.022442 | 46753.55 | 62.046928 | 78.16675 | 22.41893 |
| 1259 | 566313.7442 | 0.002899 | 1 | 0.001485 | 0.048057 | 0.022057 | 38929.85 | 92.701099 | 78.17645 | 22.4191  |
| 1260 | 1100122.024 | 0.001778 | 3 | 0.002135 | 0.063906 | 0.023658 | 38658.65 | 81.665328 | 78.18616 | 22.41927 |
| 1261 | 1034383.728 | 0.001854 | 1 | 0.003474 | 0.006248 | 0.02662  | 34499.85 | 48.99968  | 78.19586 | 22.41944 |
| 1262 | 1879964.938 | 0.002431 | 1 | 0.003554 | 0.032991 | 0.028763 | 28492.8  | 46.678571 | 78.20557 | 22.41961 |
| 1263 | 2046677.156 | 0.002746 | 1 | 0.004172 | 0.073815 | 0.031655 | 31858.5  | 47.90331  | 78.21527 | 22.41977 |
| 1264 | 1901202.227 | 0.003373 | 0 | 0.00495  | 0.003206 | 0.035323 | 40143.45 | 45.368944 | 78.22498 | 22.41994 |
| 1265 | 2465112.766 | 0.004088 | 3 | 0.006192 | 0.018045 | 0.03294  | 31153.7  | 39.259622 | 78.23468 | 22.42011 |
| 1266 | 2109716.558 | 0.00815  | 3 | 0.011395 | 0        | 0.030346 | 33113.75 | 20.868877 | 78.24439 | 22.42027 |
| 1267 | 2192856.076 | 0.006622 | 2 | 0.018169 | 0        | 0.029133 | 41751.1  | 0.48288   | 78.25409 | 22.42044 |
| 1268 | 1457745.657 | 0.001823 | 1 | 0.01991  | 0.021597 | 0.025544 | 31404.8  | 0.142747  | 78.2638  | 22.4206  |
| 1269 | 2984987.918 | 0.005223 | 5 | 0.021904 | 0.001646 | 0.021133 | 27167.9  | 0         | 78.27351 | 22.42077 |
| 1270 | 2727138.745 | 0.011713 | 7 | 0.022871 | 0        | 0.019232 | 33725.65 | 0         | 78.28321 | 22.42093 |
| 1271 | 2016923.332 | 0.017591 | 6 | 0.026282 | 0        | 0.017878 | 26840.7  | 0         | 78.29292 | 22.42109 |
| 1272 | 1482360.141 | 0.025619 | 3 | 0.031752 | 0        | 0.015147 | 26295.65 | 0         | 78.30262 | 22.42126 |
| 1273 | 1857701.648 | 0.034076 | 4 | 0.039289 | 0        | 0.012342 | 34609.05 | 0         | 78.31233 | 22.42142 |
| 1274 | 2379062.664 | 0.043007 | 1 | 0.045881 | 0        | 0.014529 | 29812.45 | 0         | 78.32204 | 22.42158 |
| 1275 | 3695807.401 | 0.05267  | 1 | 0.038742 | 0        | 0.018962 | 30907.6  | 0         | 78.33174 | 22.42174 |
| 1276 | 5128126.534 | 0.06277  | 0 | 0.028462 | 0        | 0.016611 | 32581.7  | 0         | 78.34145 | 22.4219  |
| 1277 | 3680366.325 | 0.069386 | 0 | 0.018721 | 0        | 0.013989 | 37371    | 0         | 78.35115 | 22.42206 |
| 1278 | 1700552.797 | 0.062651 | 0 | 0.009504 | 0        | 0.013216 | 33874.85 | 15.556192 | 78.36086 | 22.42222 |
| 1279 | 3356456.152 | 0.05435  | 0 | 0.00335  | 0        | 0.01325  | 34284.3  | 40.675746 | 78.37057 | 22.42238 |
| 1280 | 3432060.324 | 0.046954 | 2 | 0.007839 | 0        | 0.018408 | 48882.85 | 37.197299 | 78.38027 | 22.42254 |

|      |             |          |    |          |          |          |          |            |          |          |
|------|-------------|----------|----|----------|----------|----------|----------|------------|----------|----------|
| 1281 | 4536371.79  | 0.040484 | 0  | 0.015186 | 0        | 0.024842 | 46198.4  | 2.620618   | 78.38998 | 22.42269 |
| 1282 | 4663015.81  | 0.034743 | 0  | 0.016656 | 0        | 0.025637 | 45365.45 | 2.240254   | 78.39969 | 22.42285 |
| 1283 | 2972884.338 | 0.031753 | 1  | 0.00722  | 0        | 0.023447 | 55389.85 | 81.810726  | 78.4094  | 22.42301 |
| 1284 | 3400447.874 | 0.031171 | 2  | 0.000927 | 0        | 0.022518 | 47662.3  | 129.621248 | 78.4191  | 22.42316 |
| 1285 | 4561240.641 | 0.032281 | 2  | 0.005677 | 0        | 0.024372 | 44209.05 | 127.704983 | 78.42881 | 22.42332 |
| 1286 | 4289369.553 | 0.035241 | 9  | 0.007288 | 0        | 0.02707  | 34532.3  | 34.612277  | 78.43852 | 22.42347 |
| 1287 | 4453375.646 | 0.038883 | 17 | 0.010594 | 0        | 0.028841 | 43610.1  | 8.481021   | 78.44822 | 22.42362 |
| 1288 | 2119291.86  | 0.041243 | 6  | 0.019054 | 0        | 0.025729 | 36430.1  | 0          | 78.45793 | 22.42378 |
| 1289 | 4727532.418 | 0.044328 | 3  | 0.029019 | 0        | 0.022977 | 35095.75 | 0          | 78.46764 | 22.42393 |
| 1290 | 5216369.641 | 0.048404 | 5  | 0.038432 | 0        | 0.019885 | 40057.35 | 0          | 78.47735 | 22.42408 |
| 1291 | 5198159.584 | 0.044105 | 1  | 0.057497 | 0        | 0.013842 | 36700.05 | 0          | 78.49676 | 22.42438 |
| 1292 | 4735421.116 | 0.037632 | 2  | 0.064234 | 0        | 0.013746 | 40726.05 | 0          | 78.50647 | 22.42453 |
| 1293 | 5186231.66  | 0.032624 | 0  | 0.066841 | 0        | 0.009988 | 34524.95 | 0          | 78.51618 | 22.42468 |
| 1294 | 421988.5172 | 0.019361 | 1  | 0.029963 | 0        | 0.014465 | 37411.25 | 0          | 77.97286 | 22.40639 |
| 1295 | 390007.795  | 0.011107 | 5  | 0.03015  | 0        | 0.011984 | 46906.55 | 0          | 77.98257 | 22.40657 |
| 1296 | 538622.4859 | 0.003079 | 3  | 0.023778 | 0        | 0.0094   | 31956.6  | 0          | 77.99227 | 22.40675 |
| 1297 | 511358.0439 | 0.002189 | 0  | 0.020539 | 0.040024 | 0.012607 | 29436.1  | 0          | 78.00197 | 22.40693 |
| 1298 | 477288.1802 | 0.00926  | 0  | 0.020531 | 0.00269  | 0.017572 | 32598.55 | 0          | 78.01167 | 22.40711 |
| 1299 | 516839.6289 | 0.018585 | 0  | 0.022083 | 0.000144 | 0.022934 | 40200.15 | 0          | 78.02138 | 22.40729 |
| 1300 | 429546.2245 | 0.028089 | 0  | 0.016826 | 0        | 0.023239 | 33197.7  | 0.638108   | 78.03108 | 22.40747 |
| 1301 | 413086.8835 | 0.037616 | 0  | 0.007777 | 0        | 0.018195 | 32244.1  | 25.243283  | 78.04078 | 22.40764 |
| 1302 | 446845.4468 | 0.04526  | 0  | 0.002056 | 0        | 0.014302 | 30741.25 | 63.17317   | 78.05049 | 22.40782 |
| 1303 | 622561.2837 | 0.049781 | 0  | 0.0016   | 0        | 0.018811 | 39202.2  | 94.378167  | 78.06019 | 22.408   |
| 1304 | 447906.7899 | 0.055663 | 0  | 0.002363 | 0        | 0.024461 | 29886.7  | 86.34121   | 78.06989 | 22.40818 |
| 1305 | 447644.4689 | 0.0625   | 0  | 0.009498 | 0        | 0.020645 | 28680.95 | 49.359857  | 78.0796  | 22.40835 |
| 1306 | 487475.2248 | 0.069518 | 0  | 0.01516  | 0        | 0.01994  | 36965.55 | 2.737324   | 78.0893  | 22.40853 |
| 1307 | 456697.304  | 0.074333 | 0  | 0.016756 | 0        | 0.018439 | 30691.25 | 0.672637   | 78.099   | 22.4087  |
| 1308 | 1634592.97  | 0.06648  | 0  | 0.013896 | 0        | 0.021414 | 28940.15 | 9.347233   | 78.10871 | 22.40887 |
| 1309 | 1783148.006 | 0.057204 | 1  | 0.007579 | 0        | 0.025874 | 38048.75 | 39.774866  | 78.11841 | 22.40905 |
| 1310 | 1157357.751 | 0.048047 | 0  | 0.001769 | 0.00139  | 0.030057 | 31795.05 | 48.037446  | 78.12811 | 22.40922 |

|      |             |          |   |          |          |          |          |            |          |          |
|------|-------------|----------|---|----------|----------|----------|----------|------------|----------|----------|
| 1311 | 828257.0408 | 0.039162 | 0 | 0.004076 | 0        | 0.03356  | 31757.95 | 50.79439   | 78.13782 | 22.40939 |
| 1312 | 629112.7848 | 0.030105 | 1 | 0.00651  | 0        | 0.029965 | 39850.55 | 37.855505  | 78.14752 | 22.40956 |
| 1313 | 606822.4299 | 0.022204 | 0 | 0.011033 | 0        | 0.02462  | 32483.2  | 17.53008   | 78.15723 | 22.40974 |
| 1314 | 469803.881  | 0.015663 | 0 | 0.010717 | 0        | 0.020985 | 33801.85 | 33.364644  | 78.16693 | 22.40991 |
| 1315 | 449402.2623 | 0.009562 | 0 | 0.00308  | 0        | 0.018921 | 41787.4  | 59.157169  | 78.17663 | 22.41008 |
| 1316 | 521853.3854 | 0.00433  | 1 | 0.004505 | 0.004781 | 0.018198 | 53369.4  | 54.105886  | 78.18634 | 22.41025 |
| 1317 | 830562.7293 | 0.004595 | 1 | 0.011491 | 0        | 0.018632 | 47995.1  | 25.471348  | 78.19604 | 22.41041 |
| 1318 | 1210748.573 | 0.010069 | 3 | 0.011977 | 0        | 0.020037 | 46582.95 | 19.597515  | 78.20575 | 22.41058 |
| 1319 | 2001473.19  | 0.011724 | 2 | 0.013345 | 0        | 0.023559 | 53580.6  | 15.218949  | 78.21545 | 22.41075 |
| 1320 | 2474208.952 | 0.012141 | 4 | 0.013937 | 0        | 0.029885 | 30716.65 | 13.19576   | 78.22516 | 22.41092 |
| 1321 | 2587273.03  | 0.012436 | 7 | 0.014249 | 0        | 0.029313 | 32036.35 | 8.163112   | 78.23486 | 22.41108 |
| 1322 | 2518044.165 | 0.014699 | 3 | 0.018366 | 0        | 0.026246 | 38650.85 | 0.452749   | 78.24457 | 22.41125 |
| 1323 | 1860162.027 | 0.008935 | 1 | 0.024306 | 0        | 0.024358 | 29221.6  | 0          | 78.25427 | 22.41141 |
| 1324 | 2095057.481 | 0.001703 | 0 | 0.028459 | 0.017474 | 0.020432 | 27329.1  | 0          | 78.26398 | 22.41158 |
| 1325 | 1978269.288 | 0.001682 | 6 | 0.03029  | 0.01413  | 0.013655 | 27626.5  | 0          | 78.27368 | 22.41174 |
| 1326 | 2023530.735 | 0.005    | 3 | 0.031511 | 0.002235 | 0.010702 | 36658.85 | 0          | 78.28339 | 22.41191 |
| 1327 | 3147079.519 | 0.022094 | 3 | 0.038898 | 0        | 0.008562 | 32689.45 | 0          | 78.3028  | 22.41223 |
| 1328 | 3743702.902 | 0.031652 | 7 | 0.045442 | 0        | 0.008888 | 36042.9  | 0          | 78.3125  | 22.41239 |
| 1329 | 2539116.462 | 0.054323 | 0 | 0.010779 | 0        | 0.007584 | 43996.75 | 8.942481   | 78.37074 | 22.41335 |
| 1330 | 4162387.505 | 0.046592 | 1 | 0.014704 | 0        | 0.012863 | 34723    | 4.269344   | 78.38044 | 22.41351 |
| 1331 | 6361995.767 | 0.039676 | 1 | 0.020495 | 0        | 0.021067 | 31707.05 | 0          | 78.39015 | 22.41367 |
| 1332 | 5534771.958 | 0.034076 | 3 | 0.018405 | 0        | 0.027582 | 34324.9  | 0.197761   | 78.39986 | 22.41382 |
| 1333 | 6453085.287 | 0.030524 | 3 | 0.009836 | 0        | 0.029071 | 39025.5  | 59.50832   | 78.40956 | 22.41398 |
| 1334 | 3925993.896 | 0.029713 | 5 | 0.00305  | 0        | 0.027999 | 36287.7  | 107.709967 | 78.41927 | 22.41414 |
| 1335 | 4901862.095 | 0.030258 | 3 | 0.001394 | 0        | 0.026996 | 45492.05 | 99.585585  | 78.42898 | 22.41429 |
| 1336 | 6564091.08  | 0.030359 | 4 | 0.001416 | 0        | 0.024847 | 68184.85 | 39.362212  | 78.43868 | 22.41444 |
| 1337 | 5122216.48  | 0.031903 | 9 | 0.008456 | 0        | 0.022383 | 52171.6  | 17.175868  | 78.44839 | 22.4146  |
| 1338 | 4724819.589 | 0.036181 | 4 | 0.02802  | 0        | 0.01484  | 50313.55 | 0          | 78.4678  | 22.4149  |
| 1339 | 423553.1413 | 0.02446  | 4 | 0.011755 | 0        | 0.005812 | 40628    | 4.458302   | 77.95366 | 22.397   |
| 1340 | 458815.0751 | 0.029621 | 0 | 0.016799 | 0        | 0.011375 | 30556.9  | 1.064324   | 77.96336 | 22.39718 |

|      |             |          |   |          |          |          |          |            |          |          |
|------|-------------|----------|---|----------|----------|----------|----------|------------|----------|----------|
| 1341 | 438645.5897 | 0.023436 | 1 | 0.023527 | 0        | 0.017588 | 28759.1  | 0          | 77.97306 | 22.39736 |
| 1342 | 492399.5718 | 0.0159   | 2 | 0.024708 | 0        | 0.01659  | 34597.35 | 0          | 77.98276 | 22.39755 |
| 1343 | 453273.2804 | 0.00943  | 2 | 0.017303 | 0        | 0.013271 | 55463    | 0.189586   | 77.99246 | 22.39773 |
| 1344 | 546069.4063 | 0.008039 | 0 | 0.011459 | 0        | 0.011733 | 48565    | 8.929508   | 78.00217 | 22.39791 |
| 1345 | 481308.2919 | 0.013636 | 0 | 0.011214 | 0        | 0.013698 | 49542.1  | 16.392833  | 78.01187 | 22.39809 |
| 1346 | 364760.2299 | 0.020907 | 1 | 0.013461 | 0        | 0.018355 | 48504.05 | 13.174067  | 78.02157 | 22.39827 |
| 1347 | 461711.2609 | 0.029631 | 2 | 0.012751 | 0        | 0.023593 | 32873.45 | 14.536442  | 78.03127 | 22.39844 |
| 1348 | 464953.1702 | 0.038796 | 1 | 0.009447 | 0        | 0.02059  | 29229.95 | 30.469298  | 78.04097 | 22.39862 |
| 1349 | 675934.992  | 0.048613 | 0 | 0.006172 | 0.000219 | 0.019036 | 37637.1  | 72.573045  | 78.05068 | 22.3988  |
| 1350 | 536640.6165 | 0.057113 | 0 | 0.004844 | 0        | 0.022956 | 32968.65 | 108.573284 | 78.06038 | 22.39898 |
| 1351 | 363424.7448 | 0.063177 | 0 | 0.001812 | 0.000476 | 0.026873 | 30084.8  | 84.768581  | 78.07008 | 22.39915 |
| 1352 | 475359.7007 | 0.069076 | 0 | 0.005283 | 0.003319 | 0.024352 | 41486.35 | 41.534823  | 78.07978 | 22.39933 |
| 1353 | 473310.6149 | 0.075732 | 0 | 0.010141 | 0        | 0.022008 | 33727.45 | 22.241232  | 78.08949 | 22.3995  |
| 1354 | 440865.3459 | 0.07791  | 0 | 0.008109 | 0        | 0.019432 | 32468.2  | 32.368406  | 78.09919 | 22.39968 |
| 1355 | 444787.8931 | 0.069362 | 0 | 0.006045 | 0        | 0.0191   | 29331    | 43.014032  | 78.10889 | 22.39985 |
| 1356 | 397767.0834 | 0.060116 | 0 | 0.002577 | 0        | 0.02113  | 40112.25 | 49.676988  | 78.1186  | 22.40003 |
| 1357 | 411481.3723 | 0.051481 | 2 | 0.003633 | 0        | 0.024693 | 34199.4  | 47.245615  | 78.1283  | 22.4002  |
| 1358 | 845501.0915 | 0.042914 | 1 | 0.011137 | 0        | 0.027937 | 32821.4  | 32.877525  | 78.138   | 22.40037 |
| 1359 | 1033109.55  | 0.035172 | 2 | 0.014721 | 0        | 0.02308  | 37735.75 | 8.422899   | 78.14771 | 22.40054 |
| 1360 | 467524.789  | 0.027954 | 0 | 0.016508 | 0        | 0.016989 | 33780.6  | 0.406139   | 78.15741 | 22.40071 |
| 1361 | 649859.6264 | 0.019884 | 0 | 0.00941  | 0        | 0.012983 | 34005    | 18.061643  | 78.16711 | 22.40088 |
| 1362 | 794768.1499 | 0.010321 | 1 | 0.002498 | 0        | 0.010709 | 41551.15 | 32.339331  | 78.17682 | 22.40105 |
| 1363 | 915572.3169 | 0.002316 | 0 | 0.009024 | 0        | 0.009684 | 32876.9  | 28.086194  | 78.18652 | 22.40122 |
| 1364 | 1259898.318 | 0.007572 | 1 | 0.017496 | 0        | 0.009617 | 31644.05 | 1.336327   | 78.19622 | 22.40139 |
| 1365 | 2202119.74  | 0.016171 | 2 | 0.0208   | 0        | 0.011106 | 35298.05 | 0          | 78.20593 | 22.40156 |
| 1366 | 1831700.303 | 0.020278 | 1 | 0.021878 | 0        | 0.016314 | 34425.7  | 0          | 78.21563 | 22.40173 |
| 1367 | 1997097.434 | 0.020851 | 4 | 0.022573 | 0        | 0.024527 | 42052.2  | 0          | 78.22534 | 22.40189 |
| 1368 | 2933580.964 | 0.020974 | 1 | 0.022574 | 0        | 0.024932 | 45920.35 | 0          | 78.23504 | 22.40206 |
| 1369 | 2058173.232 | 0.019523 | 0 | 0.026086 | 0        | 0.020692 | 48380.35 | 0          | 78.24474 | 22.40223 |
| 1370 | 1398911.416 | 0.011672 | 2 | 0.030939 | 0        | 0.016478 | 47837.1  | 0          | 78.25445 | 22.40239 |

|      |             |          |    |          |          |          |          |           |          |          |
|------|-------------|----------|----|----------|----------|----------|----------|-----------|----------|----------|
| 1371 | 2667136.019 | 0.007348 | 1  | 0.036669 | 0        | 0.014677 | 30343.05 | 0         | 78.26415 | 22.40256 |
| 1372 | 2815548.238 | 0.007128 | 4  | 0.039461 | 0        | 0.011491 | 35780.6  | 0         | 78.27386 | 22.40272 |
| 1373 | 6647122.09  | 0.033563 | 5  | 0.027161 | 0        | 0.015752 | 30874.3  | 0         | 78.39032 | 22.40464 |
| 1374 | 6675510.21  | 0.026805 | 5  | 0.0225   | 0        | 0.020922 | 35228.55 | 0         | 78.40002 | 22.4048  |
| 1375 | 4355161.502 | 0.02213  | 7  | 0.015321 | 0        | 0.024531 | 34818.75 | 7.334894  | 78.40973 | 22.40496 |
| 1376 | 5334352.426 | 0.021004 | 12 | 0.009757 | 0        | 0.025121 | 35788.5  | 40.800795 | 78.41944 | 22.40511 |
| 1377 | 4314453.499 | 0.021372 | 7  | 0.007788 | 0        | 0.021533 | 47658.2  | 49.097846 | 78.42914 | 22.40527 |
| 1378 | 4741494.334 | 0.022039 | 6  | 0.007704 | 0        | 0.016984 | 38692.4  | 30.489415 | 78.43885 | 22.40542 |
| 1379 | 458690.9866 | 0.019908 | 0  | 0.004139 | 0        | 0.001055 | 38568.5  | 20.129299 | 77.95385 | 22.38798 |
| 1380 | 511918.4198 | 0.028864 | 0  | 0.010677 | 0        | 0.009308 | 25916.65 | 17.611415 | 77.96355 | 22.38816 |
| 1381 | 684714.2094 | 0.029369 | 1  | 0.015483 | 0        | 0.018872 | 28719.05 | 1.755021  | 77.97326 | 22.38834 |
| 1382 | 392371.3743 | 0.022743 | 0  | 0.018151 | 0        | 0.020224 | 33939.45 | 0         | 77.98296 | 22.38852 |
| 1383 | 473629.0933 | 0.017469 | 4  | 0.012814 | 0        | 0.013474 | 29694.55 | 11.571539 | 77.99266 | 22.3887  |
| 1384 | 468176.8129 | 0.016363 | 1  | 0.004848 | 0        | 0.008368 | 31000    | 39.604191 | 78.00236 | 22.38889 |
| 1385 | 385492.5601 | 0.02012  | 0  | 0.00299  | 0.007587 | 0.009681 | 38843.45 | 49.654789 | 78.01206 | 22.38906 |
| 1386 | 390781.523  | 0.02646  | 1  | 0.005165 | 0        | 0.015481 | 40407.25 | 48.801278 | 78.02176 | 22.38924 |
| 1387 | 378789.8714 | 0.033731 | 4  | 0.004157 | 0        | 0.023594 | 48286.05 | 42.792613 | 78.03146 | 22.38942 |
| 1388 | 432818.6265 | 0.042487 | 0  | 0.003146 | 0        | 0.026767 | 48906.45 | 54.748601 | 78.04117 | 22.3896  |
| 1389 | 373537.3569 | 0.051782 | 1  | 0.001652 | 0        | 0.027062 | 54790.05 | 72.164794 | 78.05087 | 22.38978 |
| 1390 | 357555.9148 | 0.061167 | 0  | 0.001608 | 0        | 0.029759 | 35078.35 | 89.474048 | 78.06057 | 22.38995 |
| 1391 | 354813.3953 | 0.069884 | 0  | 0.002803 | 0.000228 | 0.031293 | 32173.75 | 90.756109 | 78.07027 | 22.39013 |
| 1392 | 382420.3496 | 0.075993 | 0  | 0.005404 | 0.000167 | 0.029057 | 37881.55 | 70.437396 | 78.07997 | 22.39031 |
| 1393 | 418688.5595 | 0.081993 | 0  | 0.004038 | 0        | 0.025926 | 34178.4  | 47.189088 | 78.08968 | 22.39048 |
| 1394 | 454377.8756 | 0.081493 | 1  | 0.001835 | 0        | 0.018361 | 32482.45 | 46.414281 | 78.09938 | 22.39066 |
| 1395 | 389600.4026 | 0.072494 | 1  | 0.002298 | 0.003346 | 0.01453  | 37967.15 | 46.193363 | 78.10908 | 22.39083 |
| 1396 | 488657.143  | 0.064138 | 0  | 0.005274 | 0        | 0.016707 | 32734.3  | 41.367347 | 78.11878 | 22.391   |
| 1397 | 674945.4388 | 0.056124 | 0  | 0.009423 | 0        | 0.020462 | 32590.45 | 25.141817 | 78.12848 | 22.39118 |
| 1398 | 1569612.626 | 0.048403 | 2  | 0.016032 | 0        | 0.023888 | 38905    | 3.870305  | 78.13819 | 22.39135 |
| 1399 | 1225125.045 | 0.040062 | 6  | 0.02294  | 0        | 0.017561 | 28505.65 | 0         | 78.14789 | 22.39152 |
| 1400 | 751187.2596 | 0.030836 | 3  | 0.019805 | 0        | 0.009545 | 26881.65 | 0         | 78.15759 | 22.39169 |

|      |             |          |    |          |          |          |          |           |          |          |
|------|-------------|----------|----|----------|----------|----------|----------|-----------|----------|----------|
| 1401 | 780809.0195 | 0.021469 | 5  | 0.011223 | 0        | 0.00466  | 31401.95 | 6.868162  | 78.1673  | 22.39186 |
| 1402 | 2611390.037 | 0.027277 | 7  | 0.030472 | 0        | 0.011801 | 27639.9  | 0         | 78.21581 | 22.3927  |
| 1403 | 1012045.628 | 0.019124 | 0  | 0.039011 | 0        | 0.010753 | 31374.25 | 0         | 78.25463 | 22.39337 |
| 1404 | 870830.221  | 0.016195 | 2  | 0.043756 | 0        | 0.008385 | 52049.95 | 0         | 78.26433 | 22.39353 |
| 1405 | 3794732.234 | 0.014067 | 11 | 0.022107 | 0        | 0.019237 | 33401.6  | 0         | 78.4099  | 22.39593 |
| 1406 | 2676541.034 | 0.012419 | 19 | 0.017712 | 0        | 0.019248 | 36748.15 | 0.647582  | 78.4196  | 22.39609 |
| 1407 | 3606838.462 | 0.012271 | 13 | 0.016784 | 0        | 0.015751 | 44209.65 | 1.194157  | 78.42931 | 22.39624 |
| 1408 | 1810099.519 | 0.012521 | 0  | 0.017146 | 0        | 0.009865 | 29620.6  | 1.130879  | 78.43901 | 22.39639 |
| 1409 | 442355.3975 | 0.001258 | 0  | 0.036462 | 0.197806 | 0.002857 | 21723.1  | 0         | 77.91525 | 22.37822 |
| 1410 | 388263.3284 | 0.000595 | 0  | 0.027072 | 0.743885 | 0.0073   | 14813.35 | 0         | 77.92495 | 22.37841 |
| 1411 | 544707.5435 | 0.001651 | 0  | 0.017885 | 0.0905   | 0.008441 | 21955.5  | 0.359971  | 77.93465 | 22.37859 |
| 1412 | 390839.1097 | 0.009157 | 2  | 0.009299 | 0        | 0.003403 | 37335.9  | 18.005277 | 77.94435 | 22.37877 |
| 1413 | 454834.2034 | 0.018538 | 4  | 0.002328 | 0        | 0.002933 | 32239.8  | 43.590983 | 77.95405 | 22.37896 |
| 1414 | 482818.4836 | 0.027883 | 3  | 0.005538 | 0        | 0.010054 | 27280.4  | 58.176828 | 77.96375 | 22.37914 |
| 1415 | 474998.0973 | 0.034406 | 2  | 0.007304 | 0        | 0.019624 | 35652.35 | 33.666825 | 77.97345 | 22.37932 |
| 1416 | 433853.0779 | 0.029827 | 1  | 0.011782 | 0        | 0.021646 | 31366.2  | 20.127206 | 77.98315 | 22.3795  |
| 1417 | 503475.6169 | 0.025695 | 1  | 0.008355 | 0        | 0.015059 | 30711.8  | 38.076247 | 77.99285 | 22.37968 |
| 1418 | 389855.0889 | 0.025007 | 1  | 0.002152 | 0        | 0.009789 | 31669.4  | 55.959078 | 78.00255 | 22.37986 |
| 1419 | 428070.8428 | 0.02763  | 0  | 0.003773 | 0        | 0.009877 | 37900.95 | 59.603121 | 78.01225 | 22.38004 |
| 1420 | 374632.5994 | 0.033347 | 0  | 0.004006 | 0        | 0.016097 | 33985.75 | 48.404622 | 78.02195 | 22.38022 |
| 1421 | 356042.6647 | 0.040294 | 0  | 0.004797 | 0.004365 | 0.024624 | 27630.7  | 42.393008 | 78.03166 | 22.3804  |
| 1422 | 393812.3055 | 0.048153 | 1  | 0.005959 | 0        | 0.032323 | 35465.85 | 51.439976 | 78.04136 | 22.38058 |
| 1423 | 382686.2729 | 0.055806 | 0  | 0.004787 | 0        | 0.033735 | 31963.85 | 66.859526 | 78.05106 | 22.38076 |
| 1424 | 417953.5959 | 0.064336 | 0  | 0.003297 | 0        | 0.034697 | 48080.15 | 75.517544 | 78.06076 | 22.38093 |
| 1425 | 517469.0909 | 0.073127 | 0  | 0.002728 | 0        | 0.03519  | 57144.75 | 64.360348 | 78.07046 | 22.38111 |
| 1426 | 481667.3274 | 0.081821 | 0  | 0.002227 | 0        | 0.031721 | 52676.25 | 49.692498 | 78.08016 | 22.38128 |
| 1427 | 478927.3827 | 0.088497 | 0  | 0.003418 | 0        | 0.025765 | 52525.1  | 43.071773 | 78.08986 | 22.38146 |
| 1428 | 664956.6591 | 0.085504 | 3  | 0.008066 | 0        | 0.019156 | 42763.25 | 40.320358 | 78.09956 | 22.38163 |
| 1429 | 892534.4667 | 0.077331 | 5  | 0.010263 | 0        | 0.015205 | 39117.25 | 27.431058 | 78.10927 | 22.38181 |
| 1430 | 603316.2438 | 0.069383 | 4  | 0.013343 | 0        | 0.015071 | 33560.8  | 13.528147 | 78.11897 | 22.38198 |

|      |             |          |    |          |          |          |          |           |          |          |
|------|-------------|----------|----|----------|----------|----------|----------|-----------|----------|----------|
| 1431 | 544908.4548 | 0.061038 | 4  | 0.017766 | 0        | 0.019267 | 34047.35 | 1.602617  | 78.12867 | 22.38215 |
| 1432 | 1179515.899 | 0.052117 | 6  | 0.022242 | 0        | 0.022724 | 36745    | 0         | 78.13837 | 22.38232 |
| 1433 | 1205228.997 | 0.042692 | 13 | 0.028362 | 0        | 0.015734 | 29291.95 | 0         | 78.14807 | 22.3825  |
| 1434 | 3640336.197 | 0.007247 | 14 | 0.029808 | 0        | 0.014816 | 33808.15 | 0         | 78.41007 | 22.38691 |
| 1435 | 3238266.862 | 0.003907 | 10 | 0.026458 | 0        | 0.014059 | 39533.4  | 0         | 78.41977 | 22.38706 |
| 1436 | 2418908.698 | 0.003815 | 9  | 0.025632 | 0.000068 | 0.011014 | 30710.3  | 0         | 78.42947 | 22.38722 |
| 1437 | 1422780.152 | 0.004377 | 1  | 0.025797 | 0        | 0.006315 | 28325.4  | 0         | 78.43918 | 22.38737 |
| 1438 | 489136.8217 | 0.001263 | 0  | 0.038658 | 0.341207 | 0.00404  | 21864.7  | 0         | 77.91545 | 22.3692  |
| 1439 | 482559.8441 | 0.004632 | 1  | 0.029439 | 0.066862 | 0.009573 | 24682.95 | 0         | 77.92515 | 22.36938 |
| 1440 | 406399.979  | 0.006139 | 0  | 0.020487 | 0        | 0.013759 | 29892.8  | 0         | 77.93485 | 22.36957 |
| 1441 | 421896.0754 | 0.012735 | 4  | 0.011471 | 0        | 0.01107  | 39150.7  | 21.696187 | 77.94455 | 22.36975 |
| 1442 | 491343.3047 | 0.020847 | 5  | 0.003678 | 0        | 0.009122 | 30042.55 | 66.574205 | 77.95425 | 22.36994 |
| 1443 | 520268.7742 | 0.029561 | 1  | 0.001785 | 0        | 0.013748 | 26374.35 | 78.334581 | 77.96395 | 22.37012 |
| 1444 | 541225.3056 | 0.038113 | 1  | 0.002233 | 0        | 0.021994 | 41400.65 | 54.893019 | 77.97365 | 22.3703  |
| 1445 | 475710.3476 | 0.037632 | 0  | 0.004157 | 0        | 0.02477  | 31319.4  | 55.772932 | 77.98335 | 22.37048 |
| 1446 | 593436.4216 | 0.03489  | 1  | 0.003218 | 0.003773 | 0.020281 | 32324.8  | 56.432177 | 77.99305 | 22.37066 |
| 1447 | 380626.5591 | 0.034719 | 1  | 0.003825 | 0        | 0.016787 | 37790.2  | 47.165485 | 78.00275 | 22.37084 |
| 1448 | 597820.5551 | 0.036727 | 0  | 0.011009 | 0        | 0.01649  | 33106.7  | 33.091373 | 78.01245 | 22.37102 |
| 1449 | 524117.3045 | 0.040645 | 1  | 0.012338 | 0        | 0.020963 | 28120.1  | 16.211012 | 78.02215 | 22.3712  |
| 1450 | 822620.5513 | 0.046908 | 1  | 0.013517 | 0        | 0.027776 | 40118.25 | 13.143166 | 78.03185 | 22.37138 |
| 1451 | 488532.1312 | 0.05371  | 1  | 0.014506 | 0        | 0.034838 | 29119.45 | 13.270883 | 78.04155 | 22.37156 |
| 1452 | 486340.5169 | 0.060581 | 1  | 0.013271 | 0        | 0.038485 | 31589.9  | 17.965127 | 78.05125 | 22.37173 |
| 1453 | 555831.4078 | 0.06852  | 1  | 0.011994 | 0        | 0.039169 | 31698.6  | 19.520002 | 78.06095 | 22.37191 |
| 1454 | 556969.3693 | 0.076835 | 1  | 0.010929 | 0        | 0.038266 | 36558.45 | 26.556399 | 78.07065 | 22.37209 |
| 1455 | 607052.7785 | 0.085415 | 1  | 0.010379 | 0        | 0.032623 | 33638.75 | 28.151369 | 78.08035 | 22.37226 |
| 1456 | 656313.1363 | 0.09373  | 3  | 0.011709 | 0        | 0.027753 | 32565.8  | 18.788712 | 78.09005 | 22.37244 |
| 1457 | 1295513.219 | 0.090562 | 10 | 0.015947 | 0        | 0.024265 | 59659.35 | 4.193583  | 78.09975 | 22.37261 |
| 1458 | 1920766.895 | 0.082103 | 15 | 0.018886 | 0        | 0.021052 | 45969.4  | 0         | 78.10945 | 22.37278 |
| 1459 | 804707.5425 | 0.073127 | 15 | 0.021204 | 0        | 0.01985  | 50009.25 | 0         | 78.11915 | 22.37296 |
| 1460 | 417391.6695 | 0.064334 | 15 | 0.025571 | 0        | 0.022258 | 54815.75 | 0         | 78.12886 | 22.37313 |

|      |             |          |    |          |          |          |          |           |          |          |
|------|-------------|----------|----|----------|----------|----------|----------|-----------|----------|----------|
| 1461 | 874985.8923 | 0.054858 | 24 | 0.029893 | 0        | 0.0245   | 40374.7  | 0         | 78.13856 | 22.3733  |
| 1462 | 2068363.404 | 0.003962 | 2  | 0.035001 | 0        | 0.010543 | 33436.4  | 0         | 78.41994 | 22.37804 |
| 1463 | 2180246.475 | 0.003136 | 2  | 0.034393 | 0        | 0.008741 | 31381.2  | 0         | 78.42964 | 22.37819 |
| 1464 | 2125499.442 | 0.002672 | 1  | 0.034516 | 0        | 0.005859 | 31629.2  | 0         | 78.43934 | 22.37834 |
| 1465 | 1376657.847 | 0.001976 | 0  | 0.036462 | 0.000206 | 0.003387 | 36763.35 | 0         | 78.44905 | 22.3785  |
| 1466 | 525740.7646 | 0.002008 | 0  | 0.039212 | 0.289324 | 0.008302 | 35510    | 0         | 77.91565 | 22.36018 |
| 1467 | 491071.3161 | 0.009442 | 0  | 0.029661 | 0        | 0.013235 | 46322.55 | 0         | 77.92535 | 22.36036 |
| 1468 | 1041878.664 | 0.013492 | 1  | 0.02     | 0        | 0.018724 | 64562.8  | 0         | 77.93505 | 22.36055 |
| 1469 | 1036210.62  | 0.017327 | 4  | 0.010672 | 0        | 0.018308 | 37648.6  | 19.745902 | 77.94474 | 22.36073 |
| 1470 | 957994.5446 | 0.023416 | 2  | 0.002712 | 0        | 0.018094 | 26146.5  | 60.38187  | 77.95444 | 22.36091 |
| 1471 | 1648030.565 | 0.03022  | 1  | 0.004573 | 0        | 0.020945 | 35394.85 | 78.540709 | 77.96414 | 22.3611  |
| 1472 | 1526797.074 | 0.037927 | 1  | 0.007437 | 0        | 0.026971 | 33152.3  | 52.364539 | 77.97384 | 22.36128 |
| 1473 | 762852.2498 | 0.044251 | 0  | 0.00434  | 0        | 0.02942  | 33374.4  | 47.116049 | 77.98354 | 22.36146 |
| 1474 | 755059.7698 | 0.043663 | 0  | 0.003159 | 0        | 0.026592 | 33174.1  | 44.065349 | 77.99324 | 22.36164 |
| 1475 | 487745.6324 | 0.043216 | 0  | 0.009901 | 0        | 0.02466  | 35509.6  | 28.902008 | 78.00294 | 22.36182 |
| 1476 | 639479.6899 | 0.045279 | 1  | 0.016753 | 0        | 0.024245 | 29114.75 | 2.609941  | 78.01264 | 22.362   |
| 1477 | 808422.7301 | 0.048312 | 0  | 0.021005 | 0        | 0.026614 | 32370.65 | 0         | 78.02234 | 22.36218 |
| 1478 | 1772821.244 | 0.053567 | 0  | 0.02209  | 0        | 0.031193 | 38377.65 | 0         | 78.03204 | 22.36236 |
| 1479 | 1208569.739 | 0.059875 | 3  | 0.023237 | 0        | 0.035605 | 34289.6  | 0         | 78.04174 | 22.36253 |
| 1480 | 1374758.554 | 0.066706 | 4  | 0.022622 | 0        | 0.041069 | 32975.85 | 0         | 78.05144 | 22.36271 |
| 1481 | 1206032.553 | 0.073995 | 1  | 0.021549 | 0        | 0.042888 | 39868.4  | 0         | 78.06114 | 22.36289 |
| 1482 | 881107.9691 | 0.081597 | 0  | 0.020174 | 0.000068 | 0.039467 | 32748.8  | 0         | 78.07084 | 22.36306 |
| 1483 | 1007555.818 | 0.089454 | 4  | 0.019161 | 0        | 0.034901 | 30317.85 | 0         | 78.08054 | 22.36324 |
| 1484 | 1334132.201 | 0.097566 | 13 | 0.020115 | 0        | 0.031181 | 39009.75 | 0         | 78.09024 | 22.36341 |
| 1485 | 977664.4716 | 0.094485 | 24 | 0.023358 | 0        | 0.029251 | 31039.15 | 0         | 78.09994 | 22.36359 |
| 1486 | 722869.9541 | 0.085354 | 15 | 0.027252 | 0        | 0.026288 | 33993.7  | 0         | 78.10964 | 22.36376 |
| 1487 | 747764.972  | 0.076597 | 28 | 0.029675 | 0        | 0.024784 | 30745.5  | 0         | 78.11934 | 22.36393 |
| 1488 | 698215.5863 | 0.067316 | 25 | 0.033632 | 0        | 0.025827 | 36227.1  | 0         | 78.12904 | 22.36411 |
| 1489 | 586252.4816 | 0.001041 | 0  | 0.037969 | 0.323071 | 0.008462 | 24275.35 | 0         | 77.91585 | 22.35116 |
| 1490 | 457586.2798 | 0.006365 | 0  | 0.028967 | 0        | 0.011919 | 37004.7  | 0         | 77.92555 | 22.35134 |

|      |             |          |    |          |          |          |          |           |          |          |
|------|-------------|----------|----|----------|----------|----------|----------|-----------|----------|----------|
| 1491 | 546241.1568 | 0.00912  | 0  | 0.020302 | 0        | 0.014403 | 32331.05 | 0         | 77.93524 | 22.35153 |
| 1492 | 1130427.173 | 0.011929 | 4  | 0.012564 | 0        | 0.015962 | 37591.6  | 20.507092 | 77.94494 | 22.35171 |
| 1493 | 1624056.883 | 0.017135 | 0  | 0.005499 | 0        | 0.019651 | 47307.2  | 57.683439 | 77.95464 | 22.35189 |
| 1494 | 1315930.087 | 0.025165 | 0  | 0.002448 | 0        | 0.023312 | 52329.2  | 48.62282  | 77.96434 | 22.35208 |
| 1495 | 1721846.995 | 0.033846 | 0  | 0.010912 | 0        | 0.027261 | 48286.7  | 20.170352 | 77.97404 | 22.35226 |
| 1496 | 2222340.149 | 0.04355  | 0  | 0.011188 | 0        | 0.02942  | 38710.8  | 18.794033 | 77.98374 | 22.35244 |
| 1497 | 2395088.249 | 0.050704 | 0  | 0.010029 | 0        | 0.029834 | 38077.85 | 16.711844 | 77.99343 | 22.35262 |
| 1498 | 1010352.568 | 0.05212  | 0  | 0.016015 | 0.000068 | 0.029663 | 31483.75 | 3.018593  | 78.00313 | 22.3528  |
| 1499 | 992253.9176 | 0.05371  | 0  | 0.022845 | 0        | 0.029336 | 31399.55 | 0         | 78.01283 | 22.35298 |
| 1500 | 1161366.174 | 0.056891 | 1  | 0.029217 | 0        | 0.030621 | 38740.85 | 0         | 78.02253 | 22.35316 |
| 1501 | 1069445.299 | 0.061417 | 1  | 0.031511 | 0        | 0.034317 | 32904    | 0         | 78.03223 | 22.35333 |
| 1502 | 537912.195  | 0.066718 | 1  | 0.032526 | 0        | 0.037634 | 34104.75 | 0         | 78.04193 | 22.35351 |
| 1503 | 567416.8329 | 0.072843 | 6  | 0.031233 | 0.004628 | 0.040715 | 31823.25 | 0         | 78.05163 | 22.35369 |
| 1504 | 932181.8343 | 0.079688 | 6  | 0.03025  | 0        | 0.042595 | 40747.1  | 0         | 78.06133 | 22.35387 |
| 1505 | 1251774.783 | 0.086951 | 5  | 0.028801 | 0        | 0.040199 | 32730.2  | 0         | 78.07103 | 22.35404 |
| 1506 | 1704997.647 | 0.094161 | 14 | 0.027943 | 0        | 0.037638 | 33087.65 | 0         | 78.08073 | 22.35422 |
| 1507 | 1010987.14  | 0.101788 | 26 | 0.028628 | 0        | 0.035096 | 37751.3  | 0         | 78.09043 | 22.35439 |
| 1508 | 507424.8079 | 0.003679 | 0  | 0.036111 | 0.126599 | 0.006504 | 25246.4  | 0         | 77.91605 | 22.34214 |
| 1509 | 526627.1096 | 0.001433 | 0  | 0.026716 | 0.184774 | 0.006746 | 30780.4  | 0         | 77.92574 | 22.34232 |
| 1510 | 624073.3397 | 0.001463 | 0  | 0.017222 | 0.184243 | 0.006024 | 24999.5  | 0.644507  | 77.93544 | 22.34251 |
| 1511 | 767495.9599 | 0.004579 | 1  | 0.00821  | 0.032476 | 0.007931 | 29009.2  | 17.625653 | 77.94514 | 22.34269 |
| 1512 | 572100.9989 | 0.012521 | 0  | 0.002068 | 0        | 0.012697 | 38429.45 | 38.732432 | 77.95484 | 22.34287 |
| 1513 | 535799.7616 | 0.02214  | 0  | 0.005856 | 0        | 0.016442 | 32353.65 | 36.804882 | 77.96453 | 22.34305 |
| 1514 | 1130316.347 | 0.031959 | 0  | 0.014963 | 0        | 0.018769 | 30912.05 | 8.28828   | 77.97423 | 22.34324 |
| 1515 | 2746702.118 | 0.041437 | 1  | 0.019242 | 0        | 0.021045 | 42903.35 | 0         | 77.98393 | 22.34342 |
| 1516 | 2678348.124 | 0.050882 | 1  | 0.018991 | 0        | 0.024534 | 53599.15 | 0         | 77.99363 | 22.3436  |
| 1517 | 1961056.691 | 0.059316 | 4  | 0.022994 | 0        | 0.029304 | 46868.3  | 0         | 78.00333 | 22.34378 |
| 1518 | 2785739.222 | 0.062598 | 5  | 0.029067 | 0        | 0.032032 | 47245.8  | 0         | 78.01302 | 22.34396 |
| 1519 | 3181796.65  | 0.064999 | 7  | 0.03572  | 0        | 0.033079 | 47332.25 | 0         | 78.02272 | 22.34413 |
| 1520 | 2593295.152 | 0.068994 | 5  | 0.040117 | 0        | 0.036167 | 32922.3  | 0         | 78.03242 | 22.34431 |

|      |             |          |    |          |          |          |          |           |          |          |
|------|-------------|----------|----|----------|----------|----------|----------|-----------|----------|----------|
| 1521 | 2113960.475 | 0.073898 | 7  | 0.041186 | 0        | 0.037131 | 31835.3  | 0         | 78.04212 | 22.34449 |
| 1522 | 2493279.004 | 0.079284 | 11 | 0.039865 | 0        | 0.038152 | 38809.8  | 0         | 78.05182 | 22.34467 |
| 1523 | 1771896.298 | 0.085824 | 12 | 0.038931 | 0        | 0.039504 | 32749.1  | 0         | 78.06152 | 22.34484 |
| 1524 | 1139846.257 | 0.092686 | 12 | 0.037694 | 0        | 0.037203 | 34121.15 | 0         | 78.07122 | 22.34502 |
| 1525 | 657159.9596 | 0.002859 | 1  | 0.009294 | 0.140384 | 0.002256 | 24872.1  | 11.049161 | 77.94533 | 22.33367 |
| 1526 | 493540.4242 | 0.011944 | 1  | 0.006777 | 0        | 0.004708 | 37697.6  | 21.074471 | 77.95503 | 22.33385 |
| 1527 | 502140.694  | 0.021705 | 0  | 0.012469 | 0        | 0.008426 | 30038.6  | 16.398445 | 77.96473 | 22.33403 |
| 1528 | 658327.4663 | 0.03124  | 1  | 0.019504 | 0        | 0.009762 | 32433.25 | 0.287539  | 77.97443 | 22.33421 |
| 1529 | 1054491.405 | 0.040572 | 0  | 0.026185 | 0        | 0.012302 | 39982.85 | 0         | 77.98412 | 22.33439 |
| 1530 | 1338718.118 | 0.050329 | 2  | 0.027572 | 0        | 0.016557 | 34395.9  | 0         | 77.99382 | 22.33457 |
| 1531 | 2036333.448 | 0.059904 | 4  | 0.030464 | 0        | 0.022598 | 34233.45 | 0         | 78.00352 | 22.33475 |
| 1532 | 2467672.786 | 0.06886  | 4  | 0.035595 | 0        | 0.024615 | 39766.15 | 0         | 78.01322 | 22.33493 |
| 1533 | 3234092.475 | 0.073245 | 10 | 0.041886 | 0        | 0.026061 | 39567.7  | 0         | 78.02291 | 22.33511 |
| 1534 | 2906277.754 | 0.076835 | 9  | 0.048031 | 0        | 0.02974  | 47144.45 | 0         | 78.03261 | 22.33529 |
| 1535 | 4434081.286 | 0.081379 | 6  | 0.050158 | 0        | 0.031155 | 55887.2  | 0         | 78.04231 | 22.33547 |
| 1536 | 2532934.626 | 0.086748 | 5  | 0.049304 | 0        | 0.031502 | 56088.5  | 0         | 78.05201 | 22.33564 |
| 1537 | 3186693.358 | 0.085462 | 5  | 0.055387 | 0        | 0.022513 | 35765.25 | 0         | 78.0328  | 22.32627 |

### Results of the non-spatial Poisson analysis

| Coefficients      | Estimate | Std. Error | z value | Pr(> z ) | Signif. codes |
|-------------------|----------|------------|---------|----------|---------------|
| (Intercept)       | -0.11072 | 0.0482     | -2.297  | 0.0216   | *             |
| Slope             | -0.05306 | 0.02408    | -2.204  | 0.0275   | *             |
| Distance to water | 0.24938  | 0.02231    | 11.176  | < 2e-16  | ***           |
| Distance to roads | 0.13827  | 0.02694    | 5.132   | 2.87e-07 | ***           |
| Aquatic coverage  | -1.27962 | 0.18735    | -6.83   | 8.49e-12 | ***           |

|                         |          |         |        |          |     |
|-------------------------|----------|---------|--------|----------|-----|
| Distance to settlements | 0.13353  | 0.02837 | 4.707  | 2.51e-06 | *** |
| NPP                     | 0.20305  | 0.10641 | 1.908  | 0.0564   | .   |
| Road density            | -0.24128 | 0.04434 | -5.442 | 5.28e-08 | *** |

### Results of the non-spatial negative binomial analysis

| Coefficients            | Estimate  | Std. Error | z value | Pr(> z ) | Signif. codes |
|-------------------------|-----------|------------|---------|----------|---------------|
| (Intercept)             | -0.170257 | 0.069304   | -2.457  | 0.014    | *             |
| Slope                   | 0.249922  | 0.057051   | 4.381   | 1.18e-05 | ***           |
| Distance to water       | 0.315713  | 0.054785   | 5.763   | 8.27e-09 | ***           |
| Distance to roads       | -0.006615 | 0.060318   | -0.11   | 0.9127   |               |
| Aquatic coverage        | -1.212565 | 0.242509   | -5      | 5.73e-07 | ***           |
| Distance to settlements | -0.515903 | 0.05976    | -8.633  | < 2e-16  | ***           |
| NPP                     | 0.263652  | 0.131487   | 2.005   | 0.0449   | *             |
| Road density            | -0.357142 | 0.073917   | -4.832  | 1.35e-06 | ***           |

### R code for spatial analysis

```
##### fire risk assessment nonspatial Poisson and spatial zip
library(sp)
library(shapefiles)
```

```

library(sf)

library(CARBayes)

library(CARBayesST)


setwd("C:/Users/VIJAYSHEKHAR/Downloads/firedataforspatialanalysis")

Fire_shp <- read.shp("C:/Users/VIJAYSHEKHAR/Downloads/firedataforspatialanalysis/spatial_preds_response4_wgs.shp")
Fire_dbf <- read.dbf("C:/Users/VIJAYSHEKHAR/Downloads/firedataforspatialanalysis/spatial_preds_response4_wgs.dbf")
Fire_D <- read.csv("C:/Users/VIJAYSHEKHAR/Downloads/firedataforspatialanalysis/spatial_preds_response4_wgs.csv")
Fire_dbf$dbf <- Fire_dbf$dbf[,c(1,2,3,4,5,6,7,8,9,10,11)]

Fire_Comb <- combine.data.shapefile(data = Fire_D, shp = Fire_shp, dbf = Fire_dbf)

Fire_Comb@data$slope_mean <- scale(Fire_Comb@data$slope_mean)

Fire_Comb@data$dist_water <- scale(Fire_Comb@data$dist_water)

Fire_Comb@data$Dist_Roads <- scale(Fire_Comb@data$Dist_Roads)

Fire_Comb@data$Ratio <- scale(Fire_Comb@data$Ratio)

Fire_Comb@data$d_human <- scale(Fire_Comb@data$d_human)

Fire_Comb@data$NPP_Mean <- scale(Fire_Comb@data$NPP_Mean)

Fire_Comb@data$road_densi <- scale(Fire_Comb@data$road_densi)


library("spdep")

form_Fire <- Fire_FS ~ slope_mean + dist_water + Dist_Roads + Ratio + d_human + NPP_Mean + road_densi

Fire_Model <- glm(formula = form_Fire, data = Fire_Comb@data, family = "poisson")

```

```
Fire_Model <- glm.nb(formula = form_Fire, data = Fire_Comb@data)
```

```
summary(Fire_Model)
```

```
nb_Fire = poly2nb(Fire_Comb, row.names = rownames(Fire_Comb@data))
```

```
list_Fire = nb2listw(nb_Fire, style = "B")
```

```
resid.model_Fire = residuals(Fire_Model)
```

```
moran.mc(x=resid.model_Fire, listw =list_Fire, nsim = 1000)
```

```
mat_Fire = nb2mat(nb_Fire, style = "B")
```

```
Spatial.model_Fire = S.CARleroux(formula = form_Fire, data = Fire_Comb@data,family = "zip", W = mat_Fire, formula.omega = ~1, burnin = 80000,  
n.sample = 240000, thin = 20)
```

```
A_D_M3 = fitted(Spatial.model_Fire)
```

```
write.csv(A_D_M3 , file = "C:/Users/VIJAYSHEKHAR/Downloads/firedataforspatialanalysis/spatial_result41.csv", row.names = T)
```

```
summary(Spatial.model_Fire)
```

```
print(Spatial.model_Fire)
```

```
##### fire risk assessment nonspatial nb and spatial zinb
```

```
library(glmmTMB)
```

```

library(pscl)
library(sp)
library(shapefiles)
library(sf)
library(CARBayes)
library(rstan)
library("spdep")

setwd("C:/Users/VIJAYSHEKHAR/Downloads/firedataforspatialanalysis")
Fire_shp <- read.shp("C:/Users/VIJAYSHEKHAR/Downloads/firedataforspatialanalysis/spatial_preds_response6_wgs.shp")
Fire_dbf <- read.dbf("C:/Users/VIJAYSHEKHAR/Downloads/firedataforspatialanalysis/spatial_preds_response6_wgs.dbf")
Fire_D <- read.csv("C:/Users/VIJAYSHEKHAR/Downloads/firedataforspatialanalysis/spatial_preds_response6_wgs.csv")
Fire_dbf$dbf <- Fire_dbf$dbf[,c(1,2,3,4,5,6,7,8,9,10,11)]
Fire_Comb <- combine.data.shapefile(data = Fire_D, shp = Fire_shp, dbf = Fire_dbf)
Fire_Comb@data$slope_mean <- scale(Fire_Comb@data$slope_mean)
Fire_Comb@data$dist_water <- scale(Fire_Comb@data$dist_water)
Fire_Comb@data$Dist_Roads <- scale(Fire_Comb@data$Dist_Roads)
Fire_Comb@data$Ratio <- scale(Fire_Comb@data$Ratio)
Fire_Comb@data$d_human <- scale(Fire_Comb@data$d_human)
Fire_Comb@data$NPP_Mean <- scale(Fire_Comb@data$NPP_Mean)
Fire_Comb@data$road_densi <- scale(Fire_Comb@data$road_densi)

```

```
form_Fire <- Fire_FS ~ slope_mean + dist_water + Dist_Roads + Ratio + d_human + NPP_Mean + road_densi
Fire_Model <- glm.nb(formula = form_Fire, data = Fire_Comb@data)
summary(Fire_Model)
```

```
nb_Fire = poly2nb(Fire_Comb, row.names = rownames(Fire_Comb@data))
list_Fire = nb2listw(nb_Fire, style = "B")
```

```
resid.model_Fire = residuals(Fire_Model)
moran.mc(x=resid.model_Fire, listw =list_Fire, nsim = 1000)
```

```
nb_model <- glm.nb(form_Fire, data = Fire_Comb)
residuals_nb <- residuals(nb_model, type = "pearson")
nb_Fire <- poly2nb(Fire_Comb)
list_Fire <- nb2listw(nb_Fire, style = "B")
W <- nb2mat(nb_Fire, style = "B")
```

```
moran.test(residuals_nb, list_Fire)
```

```
N <- nrow(Fire_Comb@data)
y <- Fire_Comb@data$Fire_FS
```

```

X <- as.matrix(Fire_Comb@data[, c("slope_mean", "dist_water", "Dist_Roads", "Ratio", "d_human", "NPP_Mean", "road_densi")])
region <- as.integer(factor(Fire_Comb@data$ID)) # Assuming '_id' is the region identifier
W <- nb2mat(nb_Fire, style = "B")

```

```

stan_data <- list(N = N, y = y, X = X, K = max(region), region = region, W = W)

```

```

zinb_car_model_code <- "
data {
  int<lower=0> N;          // Number of observations
  int<lower=0> y[N];       // Response variable
  matrix[N, 7] X;        // Predictors
  int<lower=1> K;          // Number of regions
  int<lower=1, upper=K> region[N]; // Region identifier
  matrix[K, K] W;         // Adjacency matrix
}
parameters {
  real alpha;             // Intercept
  vector[7] beta;         // Coefficients for predictors
  real<lower=0> phi;       // Overdispersion parameter
  real<lower=0, upper=1> theta; // Zero-inflation parameter
  vector[K] u;            // Spatial random effects

```

```

real<lower=0> tau;          // Precision parameter for spatial random effects
}

model {
  vector[N] lambda = exp(alpha + X * beta + u[region]);
  for (n in 1:N) {
    target += log_mix(theta,
                      bernoulli_lpmf(0 | 1),
                      neg_binomial_2_lpmf(y[n] | lambda[n], phi));
  }

  // Spatial CAR prior
  target += -0.5 * dot_self(W * u) / tau;
  u ~ normal(0, sqrt(1 / tau));
}

generated quantities {
  vector[N] log_lik;
  for (n in 1:N) {
    log_lik[n] = log_mix(theta,
                        bernoulli_lpmf(0 | 1),
                        neg_binomial_2_lpmf(y[n] | exp(alpha + X * beta + u[region[n]]), phi));
  }
}

```

```
}
```

```
"
```

```
fit <- stan(model_code = zinb_car_model_code, data = stan_data, iter = 2000, chains = 4)
```

```
print(fit)
```

```
summary(fit)
```