

Příloha A Vstupní soubory do programu gama-local

A.1 Konfigurace volné sítě na 1TK v základní etapě

```
<?xml version="1.0" ?>
<!DOCTYPE gama-xml SYSTEM "gama-xml.dtd">

<gama-xml version="2.0">
<network axes-xy="sw" angles="right-handed">

<description>
prostorovka
</description>

<parameters
  sigma-apr="1.00"
  conf-pr="0.95"
  tol-abs="1000"
  sigma-act="apriori"
/>

<points-observations
  distance-stdev="1.0"
  direction-stdev="3.0"
  zenith-angle-stdev="3.0">

<point id= "4901" x="1000" y="5000" z="100" adj="XYZ" />
<point id= "4902" x="1005.60501" y="4999.77826" z="100.052"
adj="XYZ" />
<point id= "31" x="1012.47170" y="5002.50134" z="100.18500"
adj="XYZ" />
<point id= "32" x="1012.44877" y="5001.74208" z="102.43300"
adj="XYZ" />
<point id= "33" x="1012.35459" y="4999.54223" z="103.21700"
adj="XYZ"
/>
<point id= "34" x="1012.31782" y="4998.14934" z="102.74400"
adj="XYZ"/>
<point id= "35" x="1012.30898" y="4997.23795" z="99.41200" adj="XYZ"
/>
<point id= "41" x="987.67955" y="5002.78787" z="99.22000" adj="XYZ"
/>
<point id= "42" x="987.69298" y="5002.07024" z="102.14300" adj="XYZ"
/>
<point id= "43" x="987.60897" y="5000.31106" z="102.66500" adj="XYZ"
/>
<point id= "44" x="987.56061" y="4998.92298" z="102.20200" adj="XYZ"
/>
<point id= "45" x="987.55836" y="4998.28024" z="98.95500" adj="XYZ"
/>
<point id= "201" x="1051.15997" y="4999.08981" z="103.07700"
adj="XYZ" />
<point id= "202" x="1051.09079" y="4996.91132" z="102.57900"
adj="XYZ" />
```

```
<point id= "203" x="1050.55855" y="4996.21453" z="99.50300"  
adj="XYZ" />  
<point id= "204" x="1048.23148" y="5000.91047" z="99.76800"  
adj="XYZ" />  
<point id= "211" x="961.51346" y="5003.65739" z="98.67000" adj="XYZ"  
/>  
<point id= "212" x="961.48792" y="5002.63228" z="101.69000"  
adj="XYZ" />  
<point id= "213" x="961.32185" y="4999.75472" z="101.55500"  
adj="XYZ" />  
<point id= "214" x="961.49360" y="4999.01743" z="98.48400" adj="XYZ"  
/>
```

```
<obs from="4901">
```

```
<direction to= "201" val= "0" />  
<direction to= "202" val= "397.28851" />  
<direction to= "203" val= "396.37479" />  
<direction to= "204" val= "2.33413" />  
<direction to= "31" val= "13.73349" />  
<direction to= "32" val= "9.98389" />  
<direction to= "33" val= "398.77473" />  
<direction to= "34" val= "391.63869" />  
<direction to= "35" val= "387.07994" />  
<direction to= "41" val= "186.96572" />  
<direction to= "42" val= "190.52290" />  
<direction to= "43" val= "199.53475" />  
<direction to= "44" val= "206.63067" />  
<direction to= "45" val= "209.87679" />  
<direction to= "211" val= "195.10078" />  
<direction to= "212" val= "196.78798" />  
<direction to= "213" val= "201.53623" />  
<direction to= "214" val= "202.75657" />
```

```
<s-distance to= "201" val= "51.26049" />  
<s-distance to= "202" val= "51.24892" />  
<s-distance to= "203" val= "50.70257" />  
<s-distance to= "204" val= "48.24038" />  
<s-distance to= "31" val= "12.72098" />  
<s-distance to= "32" val= "12.80370" />  
<s-distance to= "33" val= "12.77530" />  
<s-distance to= "34" val= "12.75503" />  
<s-distance to= "35" val= "12.62843" />  
<s-distance to= "41" val= "12.65583" />  
<s-distance to= "42" val= "12.66255" />  
<s-distance to= "43" val= "12.67868" />  
<s-distance to= "44" val= "12.67938" />  
<s-distance to= "45" val= "12.60340" />  
<s-distance to= "211" val= "38.68282" />  
<s-distance to= "212" val= "38.63902" />  
<s-distance to= "213" val= "38.71084" />  
<s-distance to= "214" val= "38.54817" />
```

```
<z-angle to= "201" val= "96.16561" />  
<z-angle to= "202" val= "96.78342" />  
<z-angle to= "203" val= "100.61302" />  
<z-angle to= "204" val= "100.29496" />
```

```
<z-angle to= "31" val= "99.06476" />
<z-angle to= "32" val= "87.81799" />
<z-angle to= "33" val= "83.78270" />
<z-angle to= "34" val= "86.18632" />
<z-angle to= "35" val= "102.95438" />
<z-angle to= "41" val= "103.91522" />
<z-angle to= "42" val= "89.16311" />
<z-angle to= "43" val= "86.50446" />
<z-angle to= "44" val= "88.87612" />
<z-angle to= "45" val= "105.27303" />
<z-angle to= "211" val= "102.17735" />
<z-angle to= "212" val= "97.20409" />
<z-angle to= "213" val= "97.43047" />
<z-angle to= "214" val= "102.49266" />
</obs>
```

```
<obs from="4902">
```

```
<direction to= "201" val= "397.34800" />
<direction to= "202" val= "394.30315" />
<direction to= "203" val= "393.27274" />
<direction to= "204" val= "0.00000" />
<direction to= "31" val= "22.34512" />
<direction to= "32" val= "16.09875" />
<direction to= "33" val= "396.08803" />
<direction to= "34" val= "383.15604" />
<direction to= "35" val= "375.25260" />
<direction to= "41" val= "187.71968" />
<direction to= "42" val= "190.20708" />
<direction to= "43" val= "196.42494" />
<direction to= "44" val= "201.32419" />
<direction to= "45" val= "203.58092" />
<direction to= "212" val= "194.19629" />
<direction to= "213" val= "198.34288" />
<direction to= "214" val= "199.40729" />
```

```
<s-distance to= "201" val= "45.66106" />
<s-distance to= "202" val= "45.64683" />
<s-distance to= "203" val= "45.09809" />
<s-distance to= "204" val= "42.64254" />
<s-distance to= "31" val= "7.38847" />
<s-distance to= "32" val= "7.51025" />
<s-distance to= "33" val= "7.46235" />
<s-distance to= "34" val= "7.41652" />
<s-distance to= "35" val= "7.19645" />
<s-distance to= "41" val= "18.19469" />
<s-distance to= "42" val= "18.17905" />
<s-distance to= "43" val= "18.19304" />
<s-distance to= "44" val= "18.19284" />
<s-distance to= "45" val= "18.14125" />
<s-distance to= "212" val= "44.23934" />
<s-distance to= "213" val= "44.30896" />
<s-distance to= "214" val= "44.14465" />
```

```
<z-angle to= "201" val= "95.76070" />
<z-angle to= "202" val= "96.45201" />
<z-angle to= "203" val= "100.75543" />
```

```
<z-angle to= "204" val= "100.40322" />  
<z-angle to= "31" val= "98.79028" />  
<z-angle to= "32" val= "79.39395" />  
<z-angle to= "33" val= "72.04120" />  
<z-angle to= "34" val= "76.28168" />  
<z-angle to= "35" val= "105.59979" />  
<z-angle to= "41" val= "102.88459" />  
<z-angle to= "42" val= "92.63437" />  
<z-angle to= "43" val= "90.79658" />  
<z-angle to= "44" val= "92.43143" />  
<z-angle to= "45" val= "103.82447" />  
<z-angle to= "212" val= "97.62509" />  
<z-angle to= "213" val= "97.82149" />  
<z-angle to= "214" val= "102.24316" />
```

```
</obs>
```

```
</points-observations>
```

```
</network>
```

```
</gama-xml>
```

A.2 Konfigurace volné sítě na 2TK v základní etapě

```
<?xml version="1.0" ?>
<!DOCTYPE gama-xml SYSTEM "gama-xml.dtd">

<gama-xml version="2.0">
<network axes-xy="sw" angles="right-handed">

<description>
prostorovka
</description>

<parameters
  sigma-apr="1.00"
  conf-pr="0.95"
  tol-abs="1000"
  sigma-act="apriori"
/>

<points-observations
  distance-stdev="1.0"
  direction-stdev="3.0"
  zenith-angle-stdev="3.0">

<point id= "4901" x="2006.68098" y="10000.25953" z="200.05200"
adj="XYZ" />
<point id= "4902" x="2000.00000" y="10000.00000" z="200.00000"
adj="XYZ" />
<point id= "11" x="2019.37072" y="9998.22546" z="199.65400"
adj="XYZ" />
<point id= "12" x="2019.09008" y="9998.84642" z="202.34600"
adj="XYZ" />
<point id= "13" x="2019.03089" y="10000.70623" z="203.05200"
adj="XYZ"
/>
<point id= "14" x="2018.92238" y="10002.36744" z="202.29900"
adj="XYZ"/>
<point id= "15" x="2018.94091" y="10002.84143" z="199.39800"
adj="XYZ" />
<point id= "21" x="1992.07235" y="9997.13346" z="199.48900"
adj="XYZ"
/>
<point id= "22" x="1992.23348" y="9997.74368" z="202.11800"
adj="XYZ"
/>
<point id= "23" x="1992.11912" y="9999.71548" z="202.86300"
adj="XYZ"
/>
<point id= "24" x="1992.03607" y="10001.24955" z="202.08800"
adj="XYZ"
/>
<point id= "25" x="1991.88660" y="10001.82739" z="199.30400"
adj="XYZ"
/>
<point id= "101" x="2076.93198" y="9999.99935" z="199.95700"
adj="XYZ" />
```

```
<point id= "102" x="2076.71017" y="10001.28809" z="203.01100"
adj="XYZ" />
<point id= "103" x="2076.52140" y="10004.07800" z="203.00200"
adj="XYZ" />
<point id= "104" x="2076.62869" y="10004.95896" z="199.78800"
adj="XYZ" />
<point id= "111" x="1968.66655" y="9996.25819" z="198.99000"
adj="XYZ" />
<point id= "112" x="1968.74587" y="9997.36469" z="202.01000"
adj="XYZ" />
<point id= "113" x="1968.70423" y="9999.87431" z="202.03400"
adj="XYZ" />
<point id= "114" x="1968.38739" y="10000.95563" z="198.82100"
adj="XYZ" />
```

```
<obs from="4901">
```

```
<direction to= "11" val= "390.12392" />
<direction to= "12" val= "393.02416" />
<direction to= "13" val= "2.54351 " />
<direction to= "14" val= "11.09794" />
<direction to= "15" val= "13.45638" />
<direction to= "21" val= "213.65332" />
<direction to= "22" val= "211.20838" />
<direction to= "23" val= "202.61020" />
<direction to= "24" val= "195.93540" />
<direction to= "25" val= "193.51067" />
<direction to= "101" val= "0.00000" stdev="10.0" />
<direction to= "102" val= "1.17157" />
<direction to= "103" val= "3.71371" />
<direction to= "104" val= "4.50829" />
<direction to= "112" val= "205.08540" stdev="10.0" />
<direction to= "113" val= "200.88251" stdev="10.0" />
<direction to= "114" val= "199.07830" />
```

```
<s-distance to= "11" val= "12.85837" />
<s-distance to= "12" val= "12.69628" />
<s-distance to= "13" val= "12.71415" />
<s-distance to= "14" val= "12.62130" />
<s-distance to= "15" val= "12.54695" />
<s-distance to= "21" val= "14.95032" />
<s-distance to= "22" val= "14.80799" />
<s-distance to= "23" val= "14.83822" />
<s-distance to= "24" val= "14.81756" />
<s-distance to= "25" val= "14.89632" />
<s-distance to= "101" val= "70.25196" />
<s-distance to= "102" val= "70.09806" />
<s-distance to= "103" val= "70.00719" />
<s-distance to= "104" val= "70.10561" />
<s-distance to= "112" val= "38.09474" />
<s-distance to= "113" val= "38.02879" />
<s-distance to= "114" val= "38.31944" />
```

```
<z-angle to= "11" val= "102.02714" />
<z-angle to= "12" val= "88.49143" />
<z-angle to= "13" val= "84.89225" />
<z-angle to= "14" val= "88.66152" />
```

```
<z-angle to= "15" val= "103.37524" />
<z-angle to= "21" val= "102.44552" />
<z-angle to= "22" val= "91.13870" />
<z-angle to= "23" val= "87.91399" />
<z-angle to= "24" val= "91.27338" />
<z-angle to= "25" val= "103.2442" />
<z-angle to= "101" val= "100.09641" />
<z-angle to= "102" val= "97.32203" />
<z-angle to= "103" val= "97.32641" />
<z-angle to= "104" val= "100.24867" />
<z-angle to= "112" val= "96.74488" />
<z-angle to= "113" val= "96.69951" />
<z-angle to= "114" val= "102.06295" />
</obs>
```

```
<obs from="4902">
```

```
<direction to= "11" val= "394.17723" />
<direction to= "12" val= "396.15260" />
<direction to= "13" val= "2.36282" />
<direction to= "14" val= "7.93102" />
<direction to= "15" val= "9.48842" />
<direction to= "21" val= "222.04265" />
<direction to= "22" val= "217.9616" />
<direction to= "23" val= "202.29780" />
<direction to= "24" val= "190.12262" />
<direction to= "25" val= "185.93611" />
<direction to= "101" val= "0.00000" stdev="10.0" />
<direction to= "102" val= "1.06968" />
<direction to= "103" val= "3.39087" />
<direction to= "104" val= "4.11569" />
<direction to= "111" val= "207.56419" />
<direction to= "112" val= "205.35424" stdev="10.0" />
<direction to= "113" val= "200.25789" stdev="10.0" />
<direction to= "114" val= "198.07970" />
```

```
<s-distance to= "11" val= "19.43532" />
<s-distance to= "12" val= "19.24834" />
<s-distance to= "13" val= "19.26709" />
<s-distance to= "14" val= "19.18800" />
<s-distance to= "15" val= "19.14237" />
<s-distance to= "21" val= "8.46486" />
<s-distance to= "22" val= "8.3793" />
<s-distance to= "23" val= "8.40859" />
<s-distance to= "24" val= "8.34669" />
<s-distance to= "25" val= "8.36494" />
<s-distance to= "101" val= "76.91245" />
<s-distance to= "102" val= "76.75983" />
<s-distance to= "103" val= "76.66846" />
<s-distance to= "104" val= "76.76928" />
<s-distance to= "111" val= "31.5925" />
<s-distance to= "112" val= "31.44902" />
<s-distance to= "113" val= "31.38150" />
<s-distance to= "114" val= "31.6686" />
```

```
<z-angle to= "11" val= "101.13460" />
<z-angle to= "12" val= "92.22230" />
```

```
<z-angle to= "13" val= "89.87280" />  
<z-angle to= "14" val= "92.35433" />  
<z-angle to= "15" val= "102.00207" />  
<z-angle to= "21" val= "103.84784" />  
<z-angle to= "22" val= "83.73536" />  
<z-angle to= "23" val= "77.88010" />  
<z-angle to= "24" val= "83.90374" />  
<z-angle to= "25" val= "105.30185" />  
<z-angle to= "101" val= "100.03559" />  
<z-angle to= "102" val= "97.50194" />  
<z-angle to= "103" val= "97.50644" />  
<z-angle to= "104" val= "100.17545" />  
<z-angle to= "111" val= "102.03627" />  
<z-angle to= "112" val= "95.92873" />  
<z-angle to= "113" val= "95.87146" />  
<z-angle to= "114" val= "102.36979" />
```

```
</obs>
```

```
</points-observations>
```

```
</network>
```

```
</gama-xml>
```


A.3 Konfigurace vázané sítě na lTK v první etapě

```
<?xml version="1.0" ?>
<!DOCTYPE gama-xml SYSTEM "gama-xml.dtd">

<gama-xml version="2.0">
<network axes-xy="sw" angles="right-handed">

<description>
prostorovka
</description>

<parameters
  sigma-apr="1.00"
  conf-pr="0.95"
  tol-abs="1000"
  sigma-act="apriori"
/>

<points-observations
  distance-stdev="1.0"
  direction-stdev="3.0"
  zenith-angle-stdev="3.0">

<point id= "4901" adj="XYZ" />
<point id= "4902" adj="XYZ" />
<point id= "31" x="1012.47183" y="5002.50140" z="100.18288"
adj="XYZ" />
<point id= "32" x="1012.44950" y="5001.74214" z="102.43138"
adj="XYZ" />
<point id= "33" x="1012.35489" y="4999.54239" z="103.21545"
adj="XYZ" />
<point id= "34" x="1012.31731" y="4998.14941" z="102.74197"
adj="XYZ"/>
<point id= "35" x="1012.30867" y="4997.23802" z="99.41023" adj="XYZ"
/>
<point id= "41" x="987.68002" y="5002.78768" z="99.21827" adj="XYZ"
/>
<point id= "42" x="987.69347" y="5002.07012" z="102.14109" adj="XYZ"
/>
<point id= "43" x="987.60958" y="5000.31100" z="102.66350" adj="XYZ"
/>
<point id= "44" x="987.56028" y="4998.92296" z="102.20028" adj="XYZ"
/>
<point id= "45" x="987.55836" y="4998.28029" z="98.95333" adj="XYZ"
/>
<point id= "201" x="1051.15941" y="4999.08993" z="103.08118"
fix="XYZ" />
<point id= "202" x="1051.09031" y="4996.91162" z="102.58478"
fix="XYZ" />
<point id= "203" x="1050.55859" y="4996.21424" z="99.50755"
fix="XYZ" />
<point id= "204" x="1048.23130" y="5000.91037" z="99.77245"
fix="XYZ" />
<point id= "211" x="961.51311" y="5003.65739" z="98.67328" fix="XYZ"
/>
```

```
<point id= "212" x="961.48821" y="5002.63233" z="101.69244"
fix="XYZ" />
<point id= "213" x="961.32155" y="4999.75477" z="101.55822"
fix="XYZ" />
<point id= "214" x="961.49394" y="4999.01741" z="98.48720" fix="XYZ"
/>

<obs from="4901">
  <direction to= "204" val= "0.00000" />
  <direction to= "201" val= "397.52516" stdev="10.000" />
  <direction to= "202" val= "394.67127" />
  <direction to= "203" val= "393.70668" />
  <direction to= "31" val= "15.14098" />
  <direction to= "32" val= "10.52402" />
  <direction to= "33" val= "396.45855" />
  <direction to= "34" val= "387.45478" />
  <direction to= "35" val= "381.76782" />
  <direction to= "41" val= "186.19227" />
  <direction to= "42" val= "189.16045" />
  <direction to= "43" val= "196.62665" />
  <direction to= "44" val= "202.51043" />
  <direction to= "45" val= "205.21378" />
  <direction to= "211" val= "192.67327" stdev="50.000" />
  <direction to= "212" val= "194.25095" />
  <direction to= "213" val= "198.70212" />
  <direction to= "214" val= "199.84518" />

  <s-distance to= "204" val= "45.66350" />
  <s-distance to= "201" val= "48.68341" />
  <s-distance to= "202" val= "48.66866" />
  <s-distance to= "203" val= "48.11934" />
  <s-distance to= "31" val= "10.23911" />
  <s-distance to= "32" val= "10.33739" />
  <s-distance to= "33" val= "10.29626" />
  <s-distance to= "34" val= "10.26169" />
  <s-distance to= "35" val= "10.09249" />
  <s-distance to= "41" val= "15.20534" />
  <s-distance to= "42" val= "15.20269" />
  <s-distance to= "43" val= "15.21409" />
  <s-distance to= "44" val= "15.21027" />
  <s-distance to= "45" val= "15.14084" />
  <s-distance to= "211" val= "41.26387" />
  <s-distance to= "212" val= "41.22067" />
  <s-distance to= "213" val= "41.28889" />
  <s-distance to= "214" val= "41.12282" />

  <z-angle to= "204" val= "100.30900" />
  <z-angle to= "201" val= "95.95945" />
  <z-angle to= "202" val= "96.60931" />
  <z-angle to= "203" val= "100.64409" />
  <z-angle to= "31" val= "98.82550" />
  <z-angle to= "32" val= "84.84690" />
  <z-angle to= "33" val= "79.73960" />
  <z-angle to= "34" val= "82.73857" />
  <z-angle to= "35" val= "103.68351" />
  <z-angle to= "41" val= "103.24908" />
```

```
<z-angle to= "42" val= "90.97732" />
<z-angle to= "43" val= "88.77061" />
<z-angle to= "44" val= "90.73203" />
<z-angle to= "45" val= "104.37853" />
<z-angle to= "211" val= "102.03805" />
<z-angle to= "212" val= "97.37617" />
<z-angle to= "213" val= "97.58673" />
<z-angle to= "214" val= "102.33344" />
</obs>

<obs from="4902">
  <direction to= "204" val= "0.00000" />
  <direction to= "201" val= "397.84398" />
  <direction to= "202" val= "395.33041" />
  <direction to= "203" val= "394.48452" />
  <direction to= "31" val= "8.33934" />
  <direction to= "32" val= "5.46325" />
  <direction to= "33" val= "396.97629" />
  <direction to= "34" val= "391.57843" />
  <direction to= "35" val= "388.09686" />
  <direction to= "41" val= "178.65750" />
  <direction to= "42" val= "183.72142" />
  <direction to= "43" val= "196.97211" />
  <direction to= "44" val= "207.43901" />
  <direction to= "45" val= "212.15718" />
  <direction to= "211" val= "192.31502" />
  <direction to= "212" val= "194.19544" stdev="10.000" />
  <direction to= "213" val= "199.49654" />
  <direction to= "214" val= "200.86048" />

  <s-distance to= "204" val= "52.26704" />
  <s-distance to= "201" val= "55.28543" />
  <s-distance to= "202" val= "55.27091" />
  <s-distance to= "203" val= "54.72361" />
  <s-distance to= "31" val= "16.68221" />
  <s-distance to= "32" val= "16.74936" />
  <s-distance to= "33" val= "16.71386" />
  <s-distance to= "34" val= "16.69271" />
  <s-distance to= "35" val= "16.58573" />
  <s-distance to= "41" val= "8.76217" />
  <s-distance to= "42" val= "8.80025" />
  <s-distance to= "43" val= "8.79837" />
  <s-distance to= "44" val= "8.78185" />
  <s-distance to= "45" val= "8.65472" />
  <s-distance to= "211" val= "34.67016" />
  <s-distance to= "212" val= "34.62434" />
  <s-distance to= "213" val= "34.68939" />
  <s-distance to= "214" val= "34.52449" />

  <z-angle to= "204" val= "100.20879" stdev="10.000" />
  <z-angle to= "201" val= "96.38385" />
  <z-angle to= "202" val= "96.95598" />
  <z-angle to= "203" val= "100.50781" stdev="10.000" />
  <z-angle to= "31" val= "99.08501" />
  <z-angle to= "32" val= "90.50738" />
  <z-angle to= "33" val= "87.45306" />
```

```
<z-angle to= "34" val= "89.27350" />  
<z-angle to= "35" val= "102.04489" />  
<z-angle to= "41" val= "105.26989" />  
<z-angle to= "42" val= "83.92509" />  
<z-angle to= "43" val= "79.98247" />  
<z-angle to= "44" val= "83.44738" />  
<z-angle to= "45" val= "107.29252" />  
<z-angle to= "211" val= "102.33096" />  
<z-angle to= "212" val= "96.78144" />  
<z-angle to= "213" val= "97.03366" />  
<z-angle to= "214" val= "102.68582" stdev="10.000" />
```

```
</obs>
```

```
</points-observations>
```

```
</network>
```

```
</gama-xml>
```

A.4 Konfigurace vázané sítě na 2TK v první etapě

```
<?xml version="1.0" ?>
<!DOCTYPE gama-xml SYSTEM "gama-xml.dtd">

<gama-xml version="2.0">
<network axes-xy="sw" angles="right-handed">

<description>
prostorovka
</description>

<parameters
  sigma-apr="1.00"
  conf-pr="0.95"
  tol-abs="1000"
  sigma-act="apriori"
/>

<points-observations
  distance-stdev="1.0"
  direction-stdev="4.2"
  zenith-angle-stdev="4.2">

<point id= "4903" adj="XYZ" />
<point id= "4904" adj="XYZ" />
<point id= "4905" adj="XYZ" />
<point id= "11" x="2019.37013" y="9998.22572" z="199.65310"
adj="XYZ" />
<point id= "12" x="2019.08954" y="9998.84670" z="202.34527"
adj="XYZ" />
<point id= "13" x="2019.02981" y="10000.70645" z="203.05153"
adj="XYZ" />
<point id= "14" x="2018.92084" y="10002.36764" z="202.29843"
adj="XYZ"/>
<point id= "15" x="2018.93954" y="10002.84171" z="199.39759"
adj="XYZ" />
<point id= "21" x="1992.07112" y="9997.13349" z="199.48821"
adj="XYZ" />
<point id= "22" x="1992.23236" y="9997.74377" z="202.11700"
adj="XYZ" />
<point id= "23" x="1992.11827" y="9999.71557" z="202.86259"
adj="XYZ" />
<point id= "24" x="1992.03543" y="10001.24960" z="202.08724"
adj="XYZ" />
<point id= "25" x="1991.88546" y="10001.82752" z="199.30365"
adj="XYZ" />
<point id= "101" x="2076.93129" y="9999.99869" z="199.95627"
fix="XYZ" />
<point id= "102" x="2076.70859" y="10001.28790" z="203.01050"
fix="XYZ" />
<point id= "103" x="2076.52049" y="10004.07777" z="203.00170"
fix="XYZ" />
<point id= "104" x="2076.62737" y="10004.95937" z="199.78831"
fix="XYZ" />
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```
<point id= "111" x="1968.66514" y="9996.25816" z="198.98916"  
fix="XYZ" />  
<point id= "112" x="1968.74510" y="9997.36431" z="202.00938"  
fix="XYZ" />  
<point id= "113" x="1968.70387" y="9999.87391" z="202.03317"  
fix="XYZ" />  
<point id= "114" x="1968.38677" y="10000.95554" z="198.82093"  
fix="XYZ" />
```

```
<obs from="4903">
```

```
  <direction to= "11" val= "390.52852" />  
  <direction to= "12" val= "393.46318" />  
  <direction to= "13" val= "3.04673" />  
  <direction to= "14" val= "11.63845" />  
  <direction to= "15" val= "13.99896" />  
  <direction to= "21" val= "213.00784" />  
  <direction to= "22" val= "210.56231" />  
  <direction to= "23" val= "201.99540" />  
  <direction to= "24" val= "195.35748" />  
  <direction to= "25" val= "192.95242" />  
  <direction to= "101" val= "0.00000" />  
  <direction to= "102" val= "1.17188" />  
  <direction to= "103" val= "3.71632" />  
  <direction to= "104" val= "4.51062" />  
  <direction to= "112" val= "204.78004" />  
  <direction to= "113" val= "200.58405" />  
  <direction to= "114" val= "198.78570" />
```

```
  <s-distance to= "11" val= "12.76910" />  
  <s-distance to= "12" val= "12.62045" />  
  <s-distance to= "13" val= "12.65760" />  
  <s-distance to= "14" val= "12.57820" />  
  <s-distance to= "15" val= "12.49930" />  
  <s-distance to= "21" val= "14.99479" />  
  <s-distance to= "22" val= "14.86359" />  
  <s-distance to= "23" val= "14.91089" />  
  <s-distance to= "24" val= "14.90099" />  
  <s-distance to= "25" val= "14.97789" />  
  <s-distance to= "101" val= "70.18032" />  
  <s-distance to= "102" val= "70.03002" />  
  <s-distance to= "103" val= "69.94362" />  
  <s-distance to= "104" val= "70.04202" />  
  <s-distance to= "112" val= "38.15965" />  
  <s-distance to= "113" val= "38.10060" />  
  <s-distance to= "114" val= "38.39210" />
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  <z-angle to= "11" val= "101.87442" />  
  <z-angle to= "12" val= "88.24872" />  
  <z-angle to= "13" val= "84.65006" />  
  <z-angle to= "14" val= "88.44819" />  
  <z-angle to= "15" val= "103.21685" />  
  <z-angle to= "21" val= "102.29628" />  
  <z-angle to= "22" val= "91.02659" />  
  <z-angle to= "23" val= "87.82818" />  
  <z-angle to= "24" val= "91.17763" />  
  <z-angle to= "25" val= "103.08555" stdev="50.000" />
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```
<z-angle to= "101" val= "100.06714" />
<z-angle to= "102" val= "97.29040" stdev="10.000"/>
<z-angle to= "103" val= "97.29405" />
<z-angle to= "104" val= "100.21898" />
<z-angle to= "112" val= "96.69509" />
<z-angle to= "113" val= "96.65111" />
<z-angle to= "114" val= "102.00511" />
</obs>
```

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<obs from="4904">
<direction to= "11" val= "390.52861" />
<direction to= "12" val= "393.46426" />
<direction to= "13" val= "3.04730" />
<direction to= "14" val= "11.63928" />
<direction to= "15" val= "14.00003" />
<direction to= "21" val= "213.00730" />
<direction to= "22" val= "210.56098" />
<direction to= "23" val= "201.99512" />
<direction to= "24" val= "195.35602" />
<direction to= "25" val= "192.95211" />
<direction to= "101" val= "0.00000" />
<direction to= "102" val= "1.17290" />
<direction to= "103" val= "3.71757" />
<direction to= "104" val= "4.51197" />
<direction to= "112" val= "204.77992" />
<direction to= "113" val= "200.58391" />
<direction to= "114" val= "198.78441" />
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```
<s-distance to= "11" val= "12.76925" />
<s-distance to= "12" val= "12.62050" />
<s-distance to= "13" val= "12.65765" />
<s-distance to= "14" val= "12.57825" />
<s-distance to= "15" val= "12.49955" />
<s-distance to= "21" val= "14.99479" />
<s-distance to= "22" val= "14.86344" />
<s-distance to= "23" val= "14.91084" />
<s-distance to= "24" val= "14.90094" />
<s-distance to= "25" val= "14.97794" />
<s-distance to= "101" val= "70.18022" />
<s-distance to= "102" val= "70.03012" />
<s-distance to= "103" val= "69.94337" />
<s-distance to= "104" val= "70.04237" />
<s-distance to= "112" val= "38.15955" />
<s-distance to= "113" val= "38.10055" />
<s-distance to= "114" val= "38.39200" />
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<z-angle to= "11" val= "101.87449" />
<z-angle to= "12" val= "88.24842" />
<z-angle to= "13" val= "84.64979" />
<z-angle to= "14" val= "88.44797" />
<z-angle to= "15" val= "103.21689" />
<z-angle to= "21" val= "102.29697" />
<z-angle to= "22" val= "91.02652" />
<z-angle to= "23" val= "87.82740" />
<z-angle to= "24" val= "91.17671" />
<z-angle to= "25" val= "103.08407" />
```

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<z-angle to= "101" val= "100.06703" />
<z-angle to= "102" val= "97.29032" stdev="10.000" />
<z-angle to= "103" val= "97.29502" stdev="10.000" />
<z-angle to= "104" val= "100.21922" />
<z-angle to= "112" val= "96.69502" />
<z-angle to= "113" val= "96.64991" />
<z-angle to= "114" val= "102.00514" />
</obs>
```

```
<obs from="4905">
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<direction to= "11" val= "394.36163" stdev="3.0" />
<direction to= "12" val= "396.34017" stdev="3.0" />
<direction to= "13" val= "2.54440" stdev="3.0" />
<direction to= "14" val= "8.10504" stdev="3.0" />
<direction to= "15" val= "9.65908" stdev="3.0" />
<direction to= "21" val= "221.51886" stdev="3.0" />
<direction to= "22" val= "217.39695" stdev="3.0" />
<direction to= "23" val= "201.65793" stdev="3.0" />
<direction to= "24" val= "189.47027" stdev="3.0" />
<direction to= "25" val= "185.29887" stdev="3.0" />
<direction to= "101" val= "0.00000" stdev="3.0" />
<direction to= "102" val= "1.06923" stdev="3.0" />
<direction to= "103" val= "3.38961" stdev="3.0" />
<direction to= "104" val= "4.11407" stdev="3.0" />
<direction to= "111" val= "207.36675" stdev="50.000" />
<direction to= "112" val= "205.15284" stdev="3.0" />
<direction to= "113" val= "200.05148" stdev="3.0" />
<direction to= "114" val= "197.87285" stdev="3.0" />
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<s-distance to= "11" val= "19.44957" />
<s-distance to= "12" val= "19.26657" />
<s-distance to= "13" val= "19.29207" />
<s-distance to= "14" val= "19.21930" />
<s-distance to= "15" val= "19.17365" />
<s-distance to= "21" val= "8.41982" />
<s-distance to= "22" val= "8.34387" />
<s-distance to= "23" val= "8.39145" />
<s-distance to= "24" val= "8.34162" />
<s-distance to= "25" val= "8.35975" />
<s-distance to= "101" val= "76.93397" />
<s-distance to= "102" val= "76.78240" />
<s-distance to= "103" val= "76.69465" />
<s-distance to= "104" val= "76.79470" />
<s-distance to= "111" val= "31.56323" />
<s-distance to= "112" val= "31.42371" />
<s-distance to= "113" val= "31.36138" />
<s-distance to= "114" val= "31.64930" />
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<z-angle to= "11" val= "101.08883" stdev="3.0" />
<z-angle to= "12" val= "92.18345" stdev="3.0" />
<z-angle to= "13" val= "89.84060" stdev="3.0" />
<z-angle to= "14" val= "92.32027" stdev="3.0" />
<z-angle to= "15" val= "101.95263" stdev="3.0" />
<z-angle to= "21" val= "103.76389" stdev="3.0" />
<z-angle to= "22" val= "83.55615" stdev="3.0" />
<z-angle to= "23" val= "77.72077" stdev="3.0" />
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```
<z-angle to= "24" val= "83.78409" stdev="3.0" />
<z-angle to= "25" val= "105.19819" stdev="3.0" />
<z-angle to= "101" val= "100.02619" stdev="10.000" />
<z-angle to= "102" val= "97.49277" stdev="3.0" />
<z-angle to= "103" val= "97.49710" stdev="3.0" />
<z-angle to= "104" val= "100.16425" stdev="3.0" />
<z-angle to= "111" val= "102.01052" stdev="10.000" />
<z-angle to= "112" val= "95.89773" stdev="3.0" />
<z-angle to= "113" val= "95.84192" stdev="3.0" />
<z-angle to= "114" val= "102.34404" stdev="3.0" />
</obs>

</points-observations>
</network>
</gama-xml>
```