Questions

1. The input data does not include any cases where the starting situation was low traffic level in all three directions. Is this normal? If you had this kind of data, what would happen or what should we have done?

Such data was not included because the low traffic in all directions is the end goal. We want our AI to make decisions based on when we are not at our end goal. Had that data been added, we would program our AI to not do anything with the lights.

1. The statement does not say anything about the cost of the actions. What reasonable assumption could we make?

We should assume all actions cost the same.

1. What are the expected values of the states? Provide the values to six decimal places. The precision must be greater than one thousandth.
2. What is the optimal policy?
3. If we had also had incoming traffic from the South and for each direction we had measured traffic at 5 levels instead of 2, what would have changed in the problem?