











## Conclusions from the solar agent Q-table analysis:

- 1. Most states have a clearly preferred action.
- 2. Q-values are symmetrically distributed between actions.
- 3. Some states exhibit ambiguous behavior based on entropy analysis.
- 4. Several states have Q-value differences below 0.01, indicating indecision.
- 5. Training coverage was analyzed using  $Q \neq 0$  as indicator.
- 6. Evaluating and possibly refining state discretization or exploration policy is advised.

## Recommendations:

- Improve reward function to reduce ambiguity.
- Review state discretization granularity.
- Adjust ε-greedy strategy to emphasize underexplored or ambiguous states.
- Investigate whether untrained states are simply unexplored.