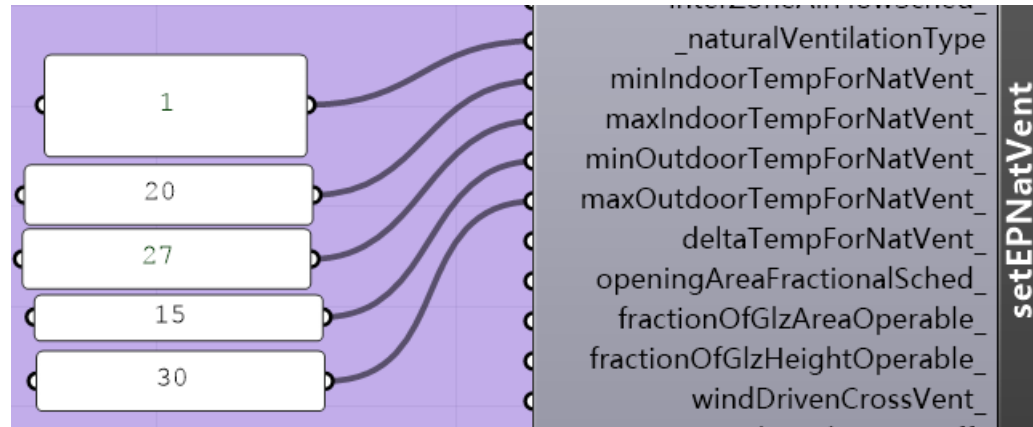


VENTILATION



INFILTRATION

airflowrate = 1

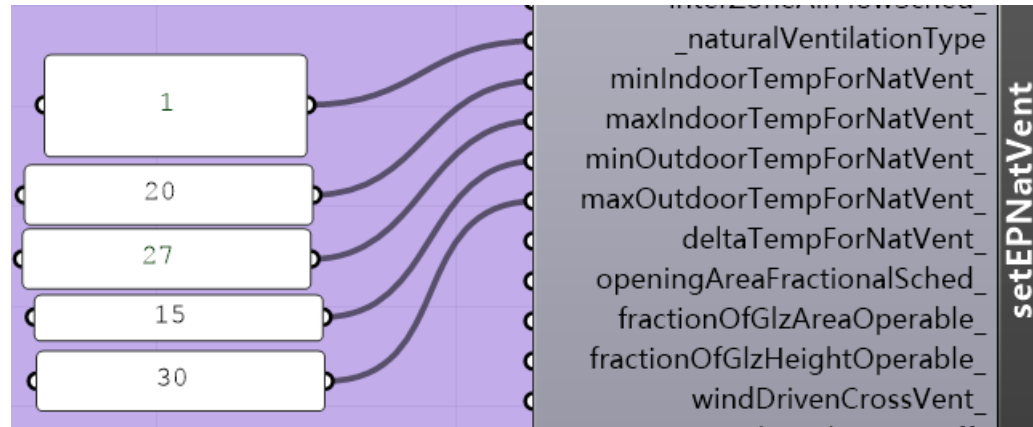
CONDUCTION

material : default



comfortable% :28.013699

VENTILATION

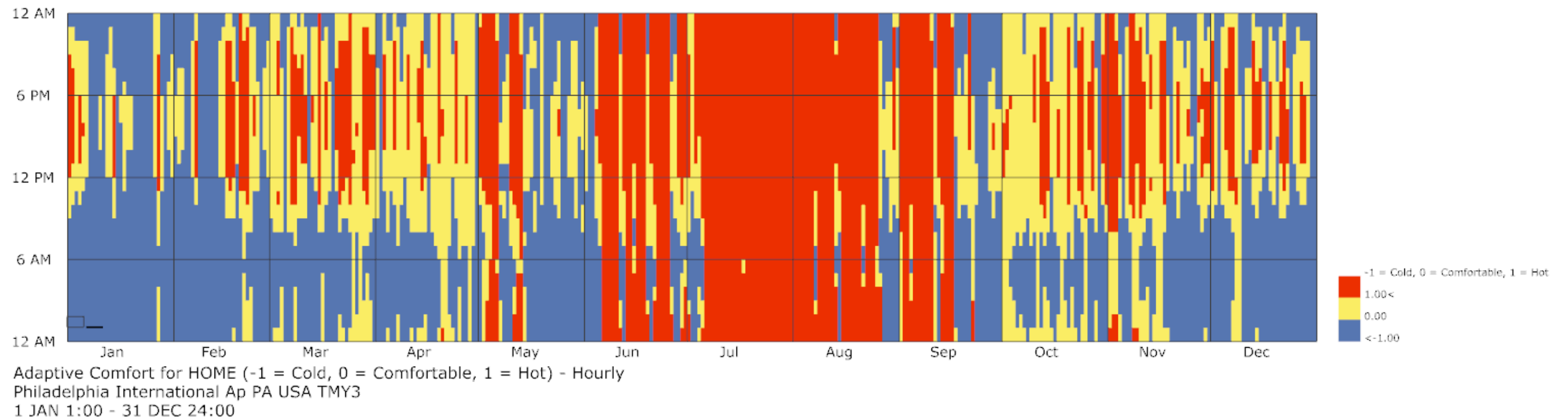


INFILTRATION

airflowrate = 1

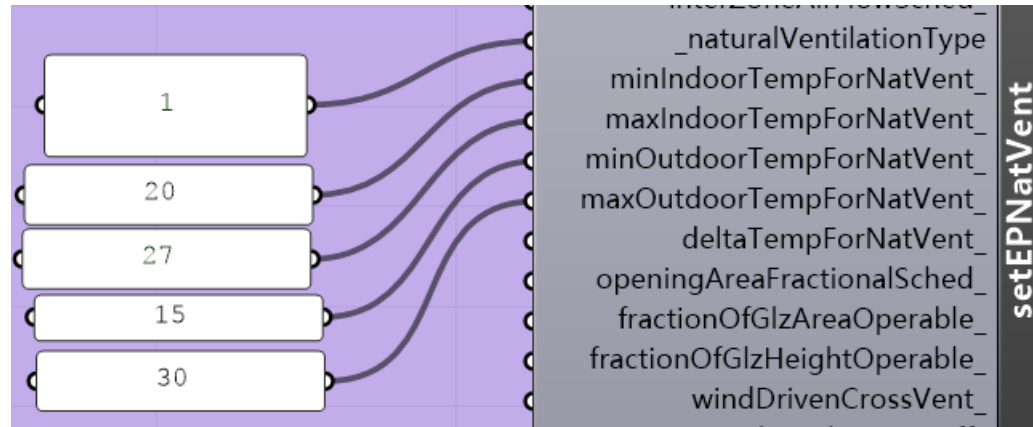
CONDUCTION

material : high R value



comfortable% :27.248858

VENTILATION

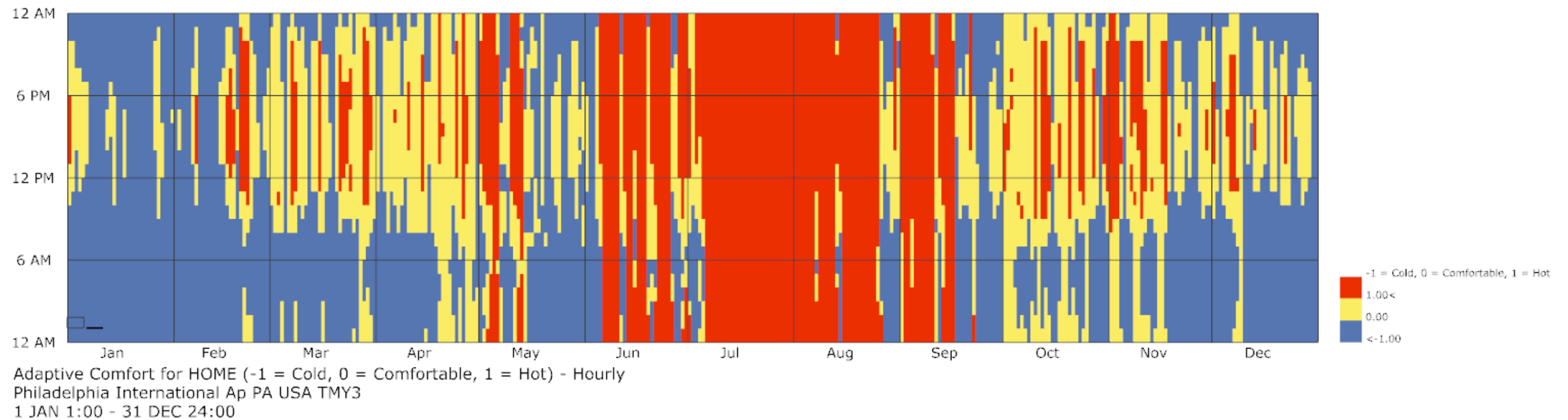


INFILTRATION

airflowrate = 1

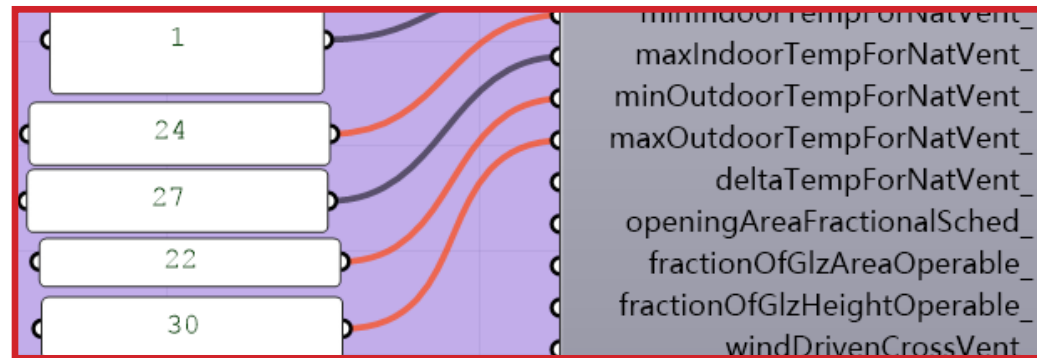
CONDUCTION

material : low R value



comfortable% :27.751142

VENTILATION

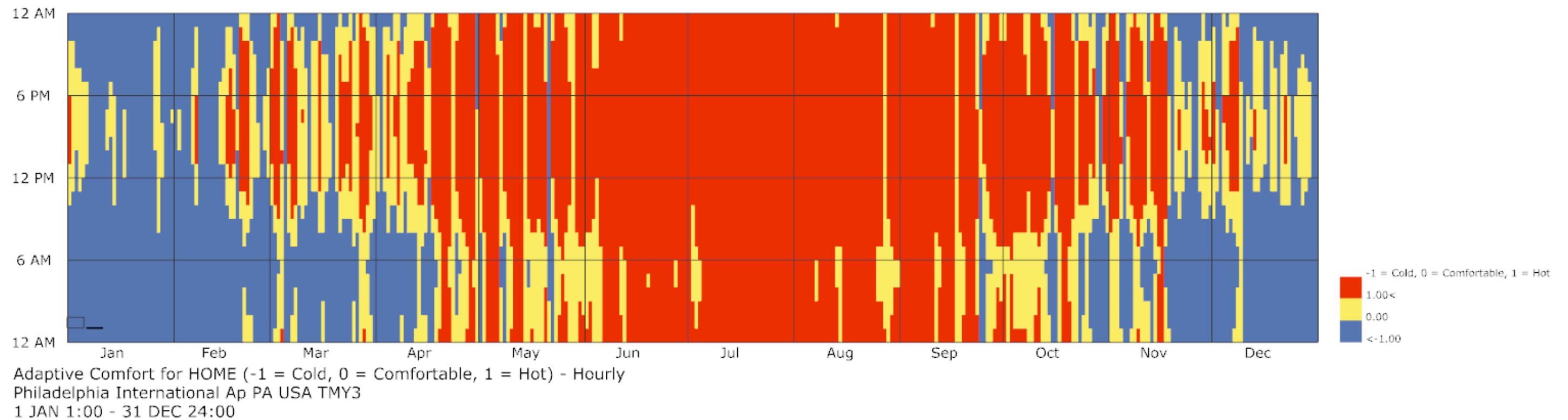


INFILTRATION

airflowrate = 1

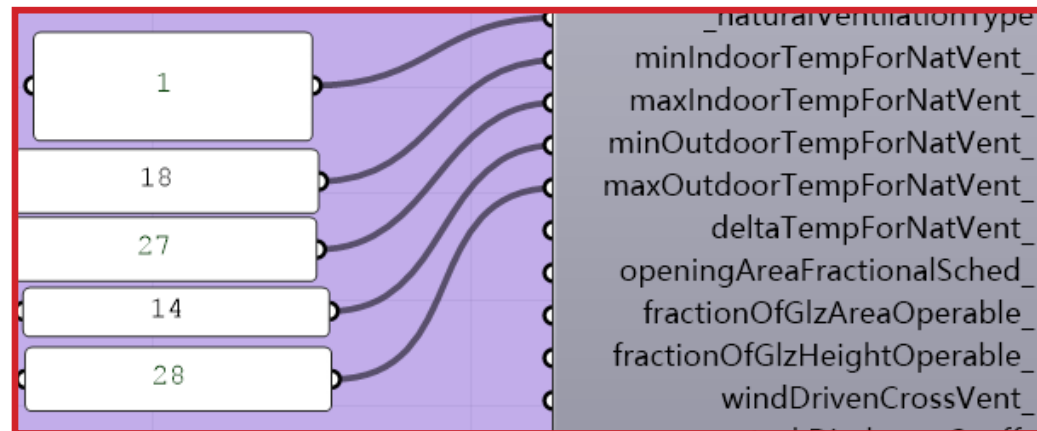
CONDUCTION

material : low R value



comfortable% :20.878995

VENTILATION



INFILTRATION

airflowrate = 1

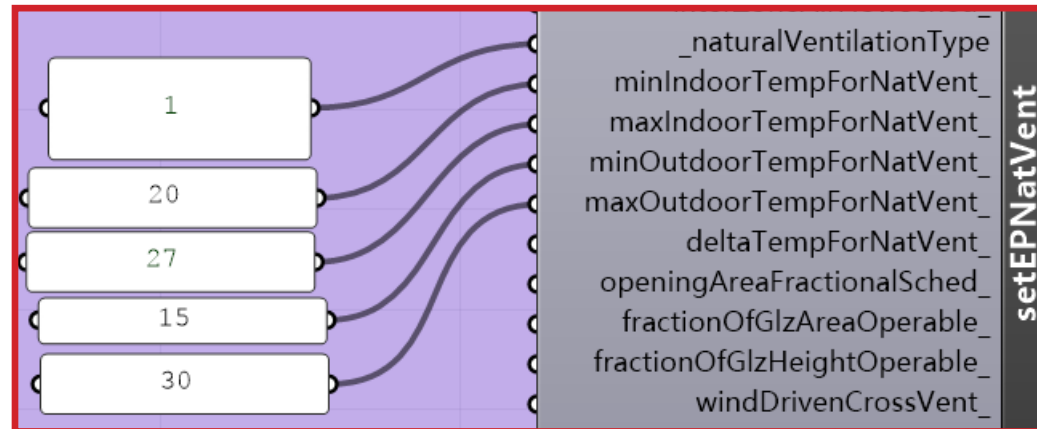
CONDUCTION

material : low R value



comfortable% :23.344749

VENTILATION

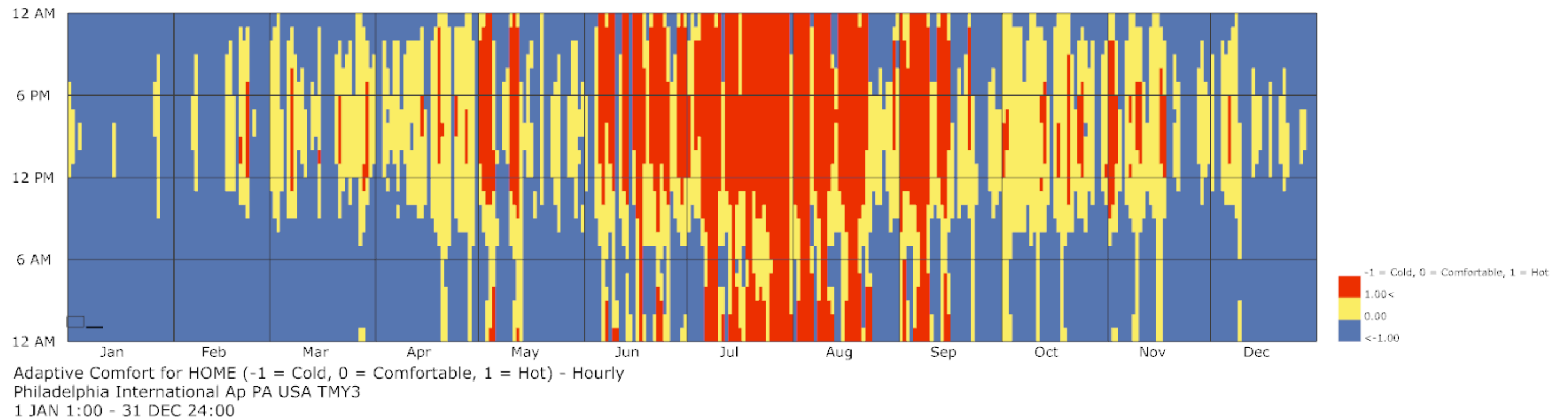


INFILTRATION

airflowrate = 2

CONDUCTION

material : low R value



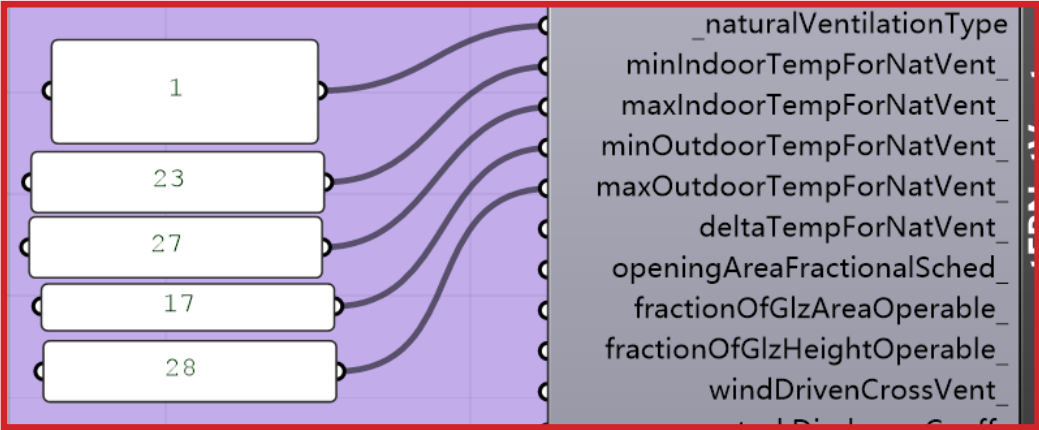
comfortable% :26.461187

FINAL DECISION

VENTILATION

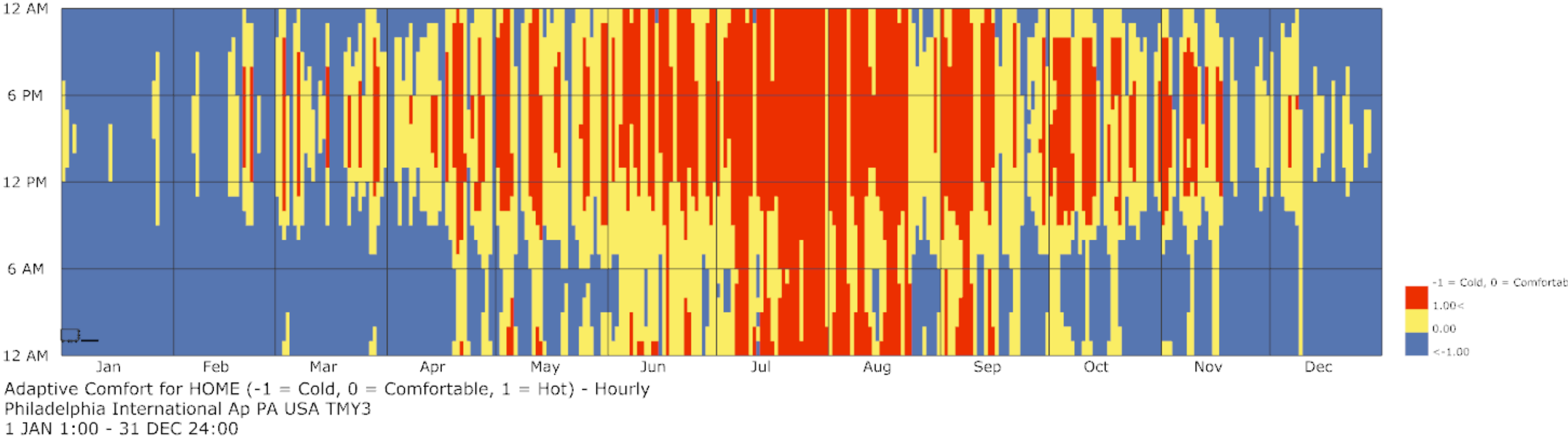
INFILTRATION

CONDUCTION

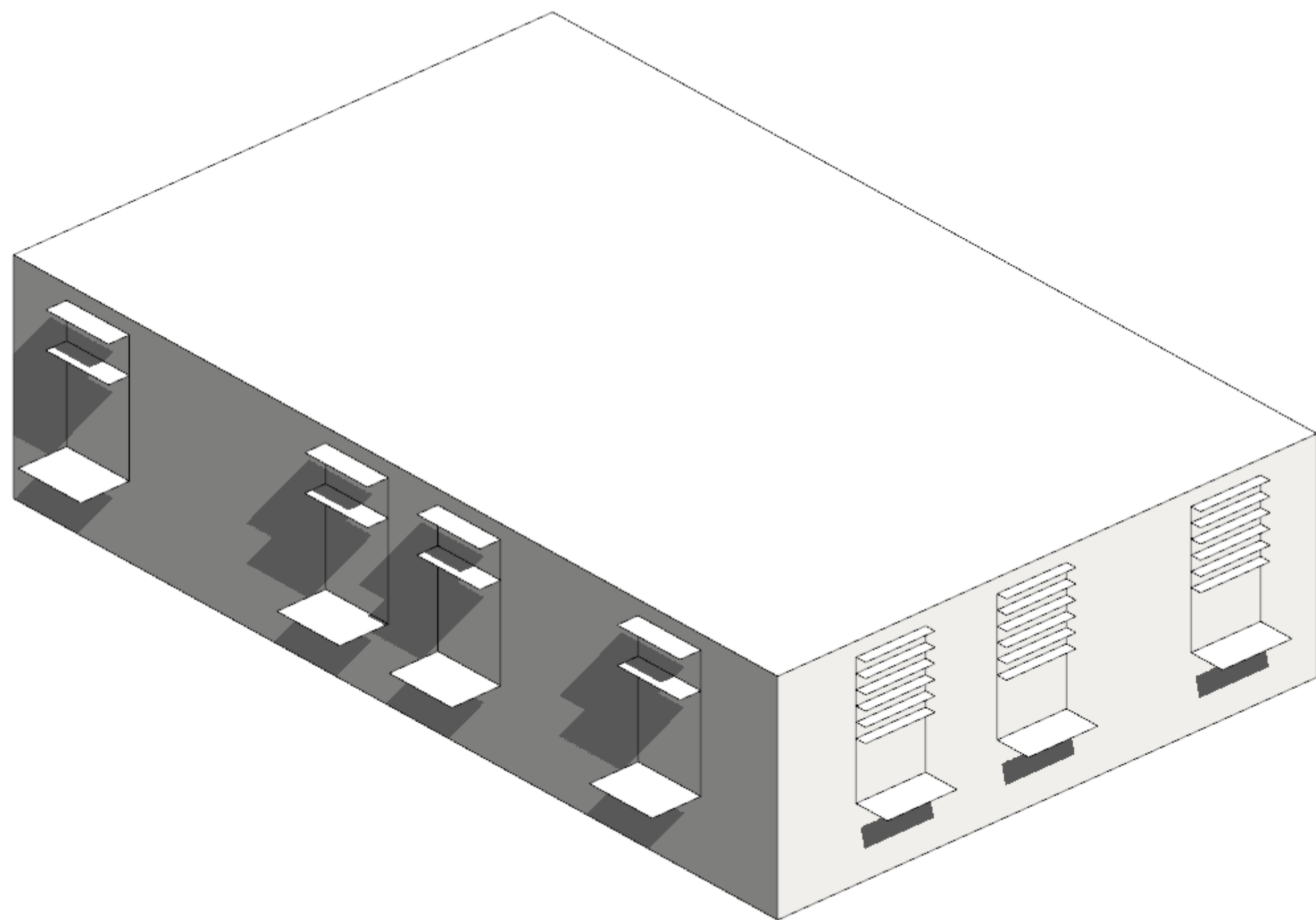


airflowrate = 2

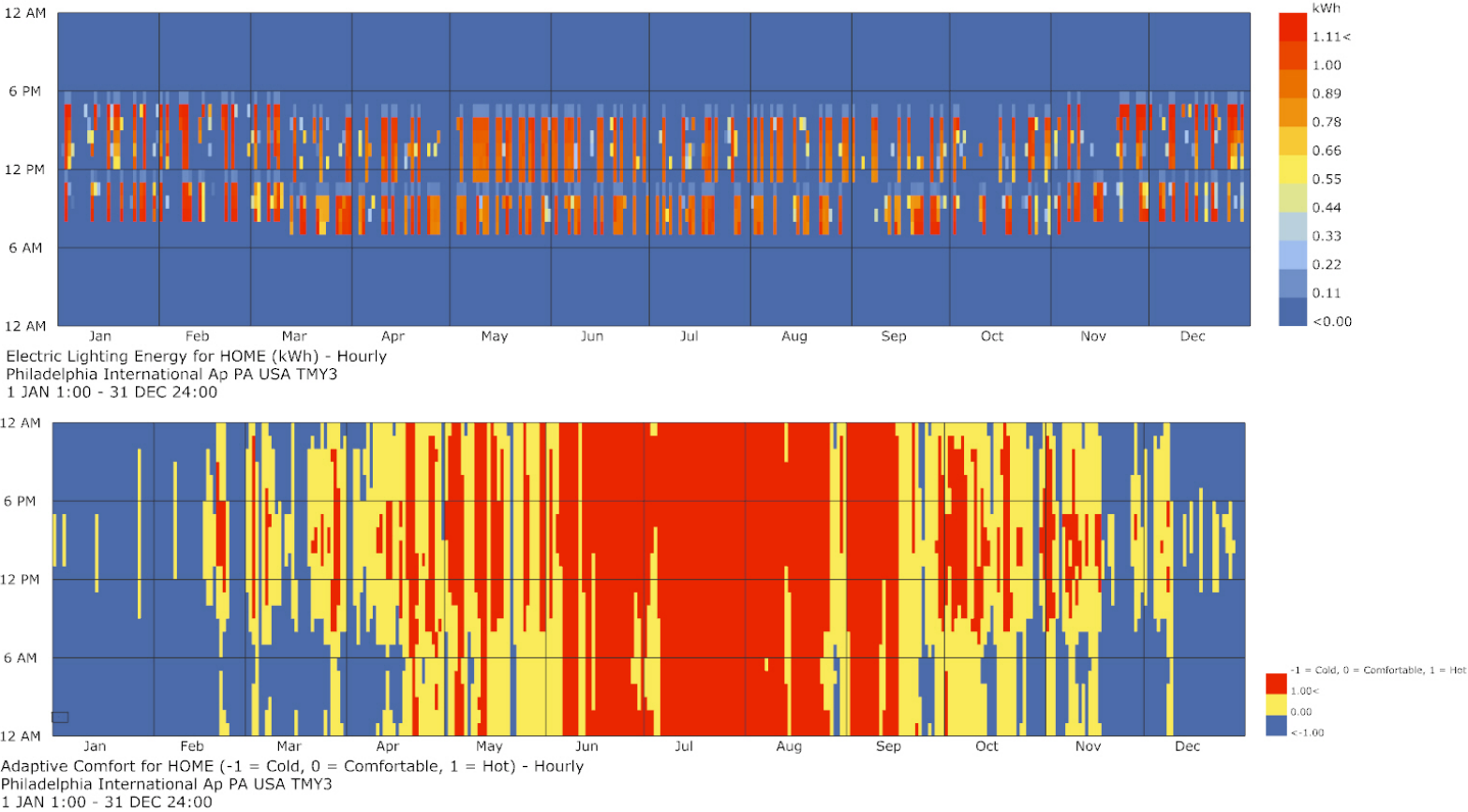
material : low R value



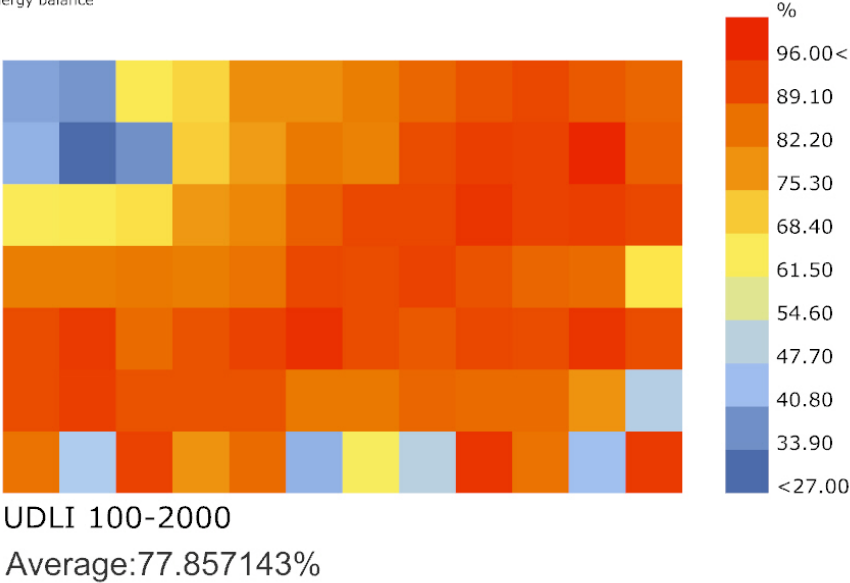
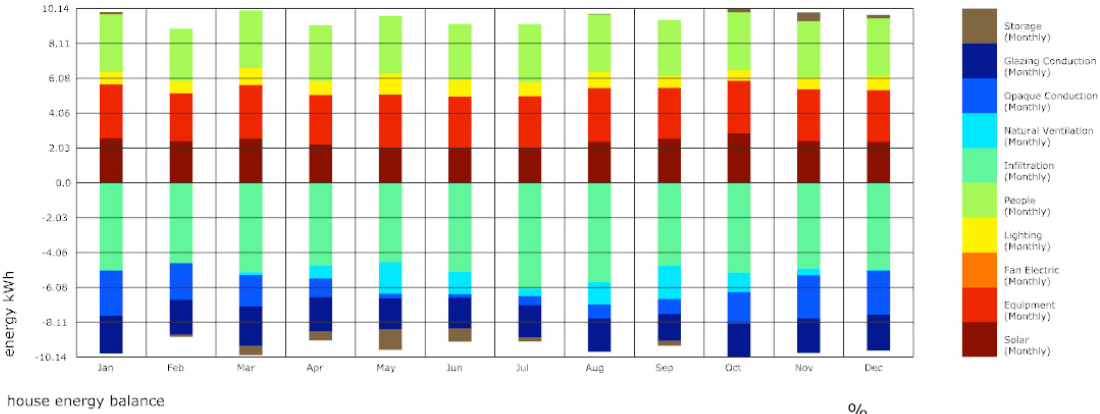
comfortable% :31.96347

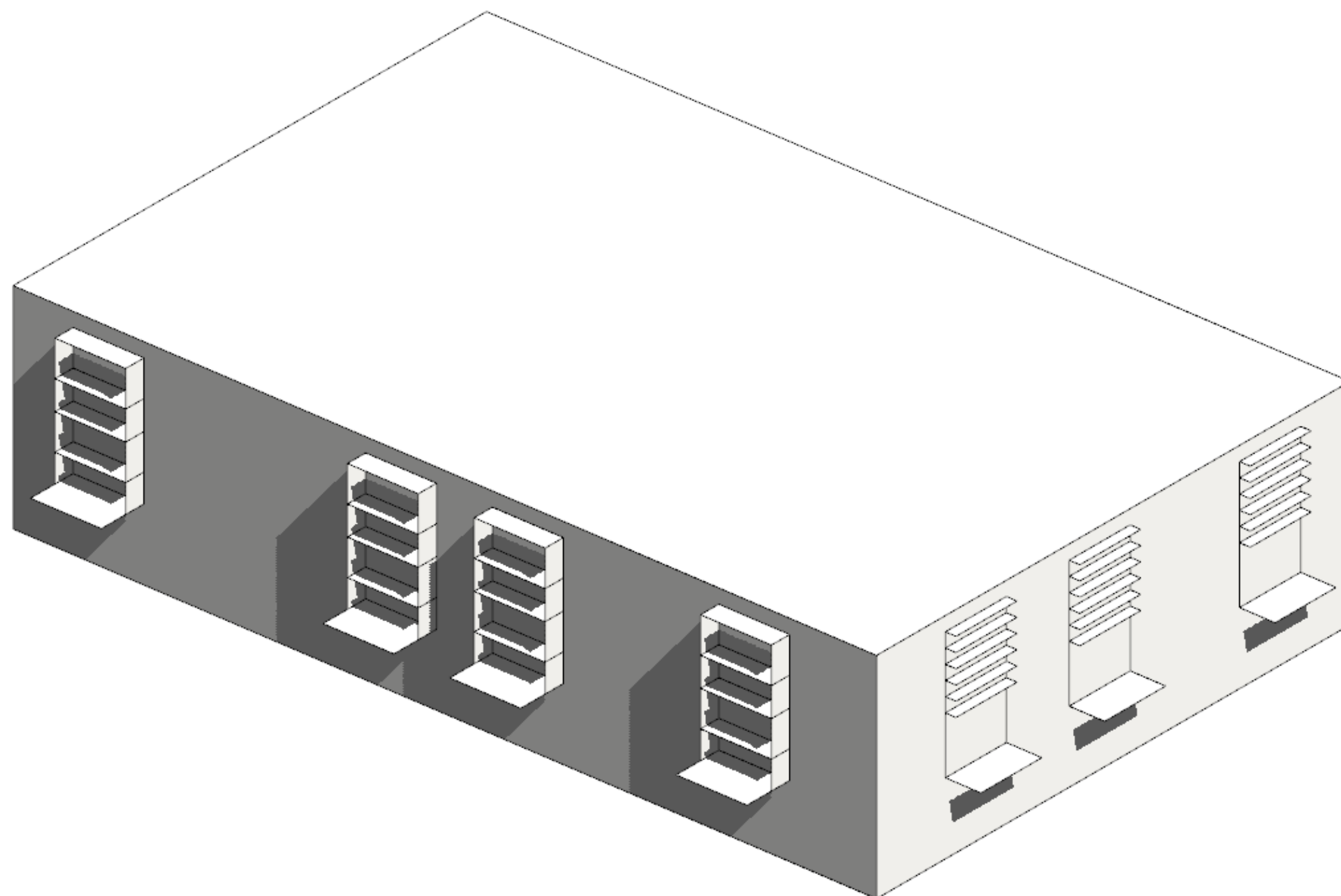


According to the energy balance, the solar input is quite constant. But in summer and winter, the house has different needs of sunshine. So I change the shade of shading to make it block more sun in the summer.

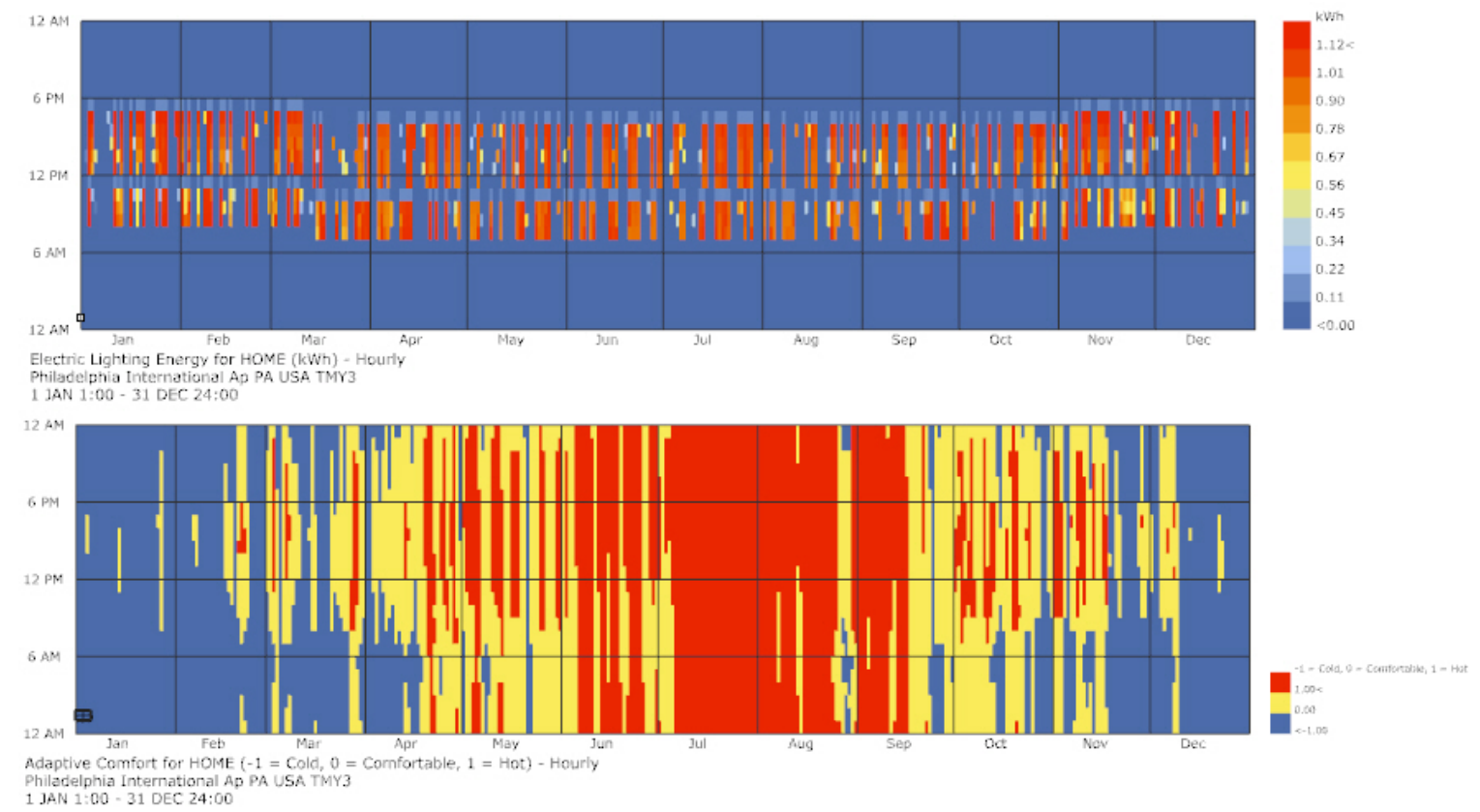


comfortable% :31.050228

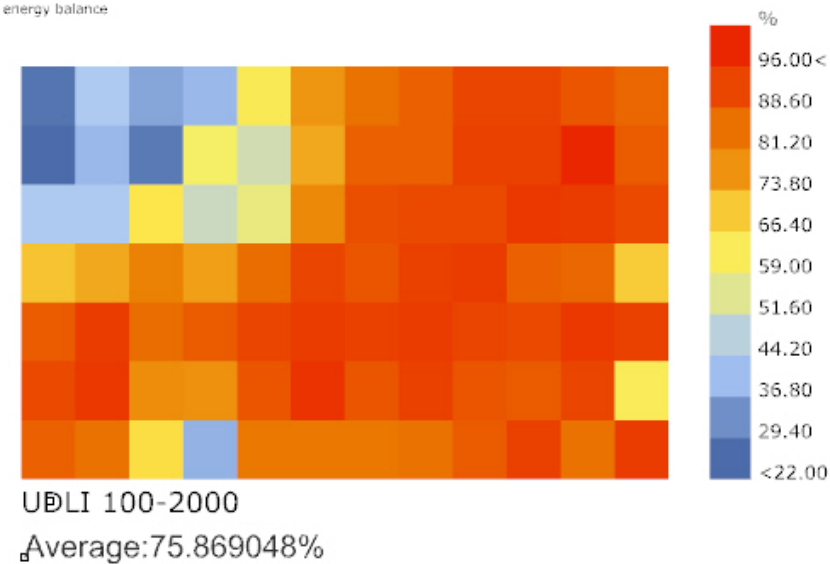
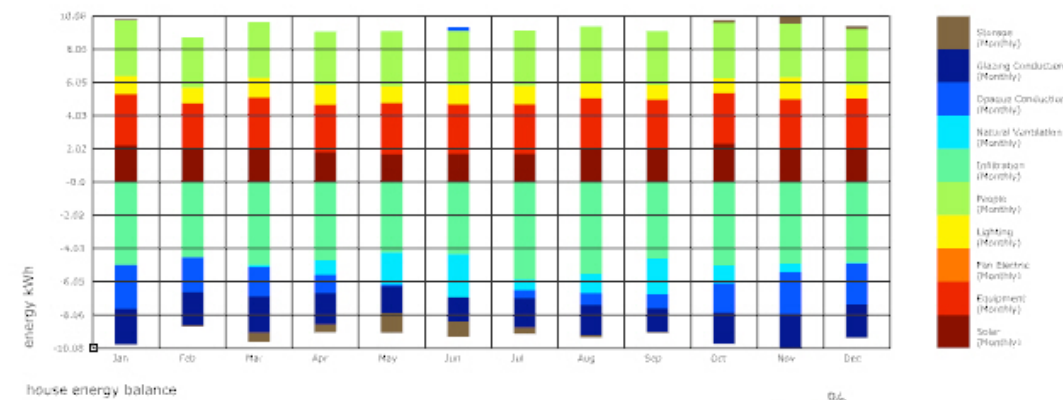




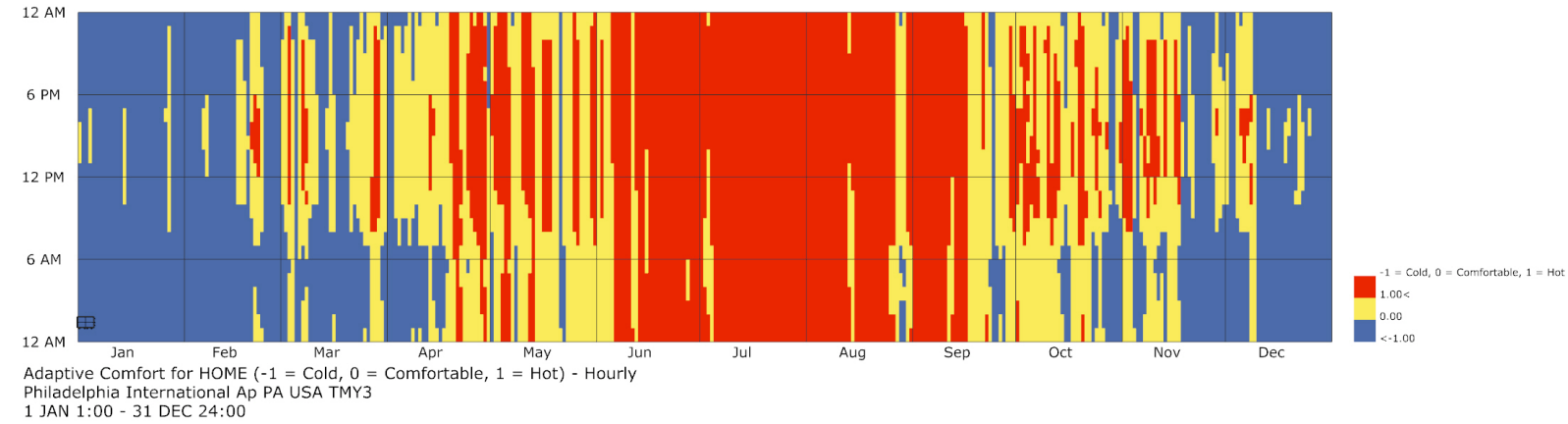
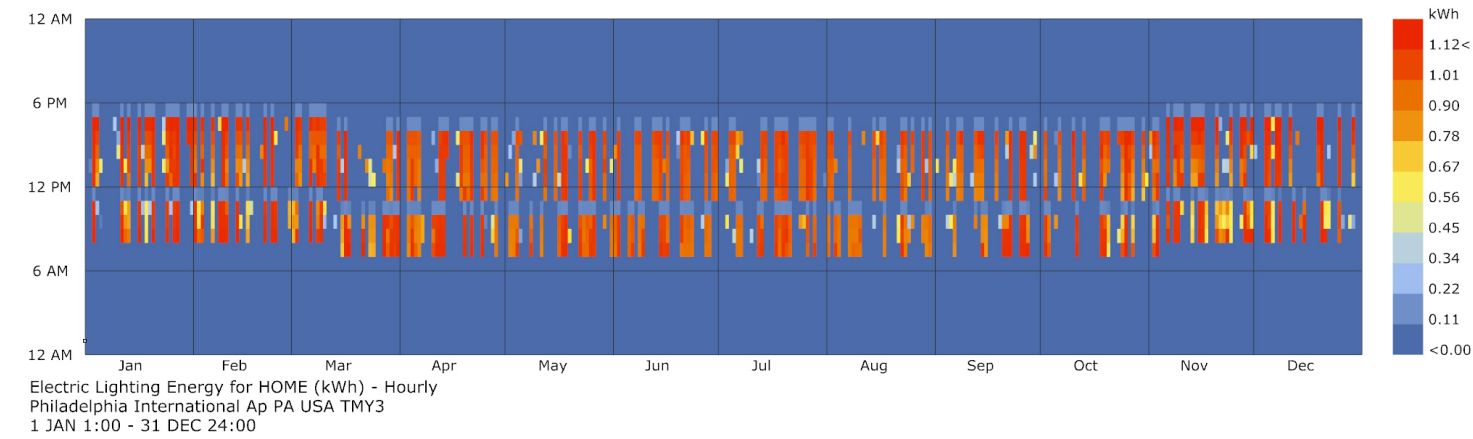
Changing the shape of shading



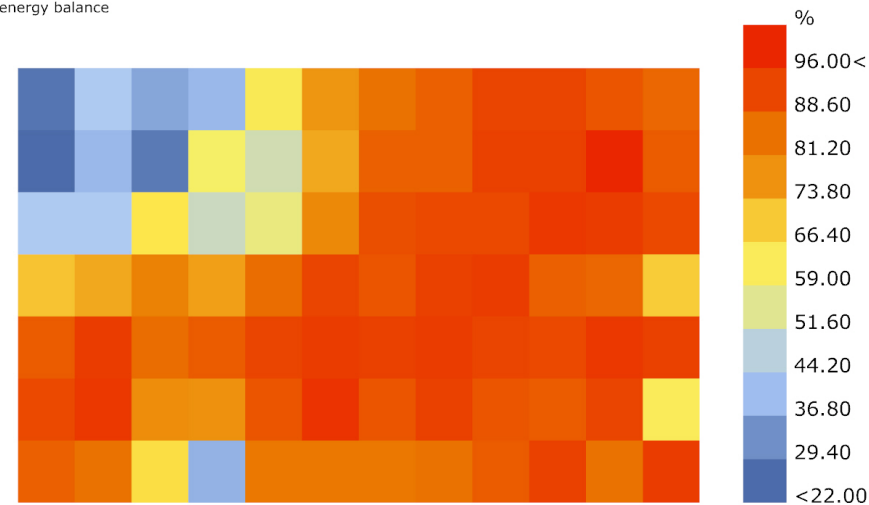
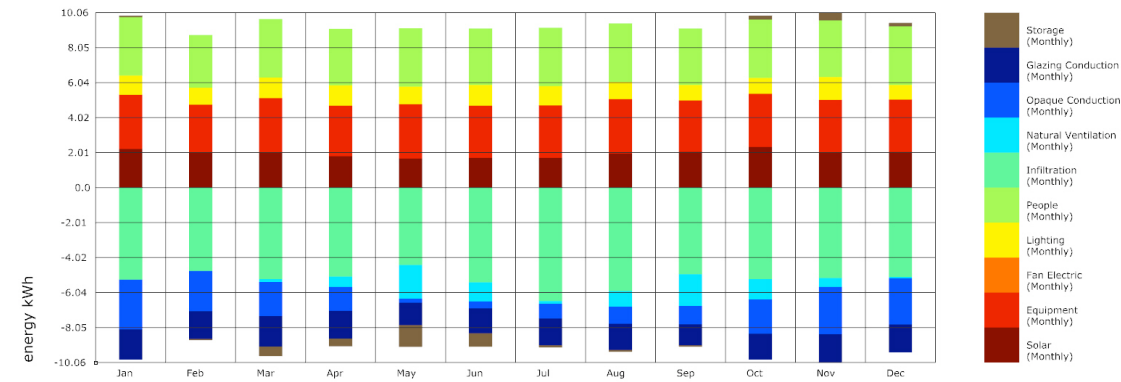
comfortable% :32.511416



After changing the shading, the thermal comfort gets better. The windows always give energy out, so I increase the R value of windows.



comfortable% :30.547945



Average:75.869048%

Well, it performs worse, both in winter and summer.

