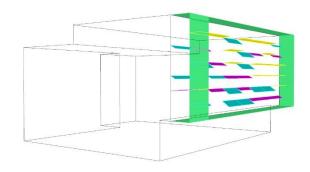


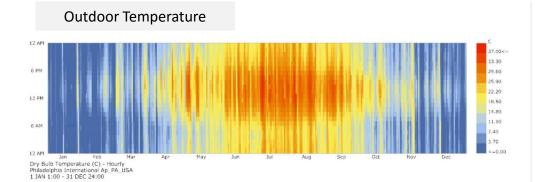
| % of PANEL 1 | % of PANEL 2 | Depth of PANEL 1 | Depth of PANEL 2 | Depth of PANEL 3 | Adaptive Comfort |
|-----------------|--------------|------------------|------------------|------------------|---------------------|
| 25% | 25% | 0.24 | 0.14 | 0.22 | |
| 27% | 30% | 0.26 | 0.16 | 0.24 | 65.45% |
| 30% | 35% | 0.28 | 0.18 | | |
| 35% | 40% | 0.30 | 0.20 | | |
| 40% | | 0.32 | 0.22 | | |
| 45% | | 0.34 | | | |
| 50% | | | | | |



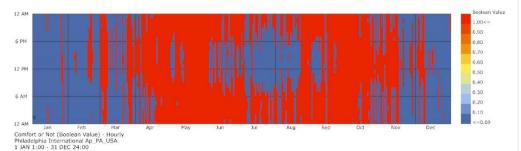
INDOOR COMFORT SIMULATION | Mingbo Peng

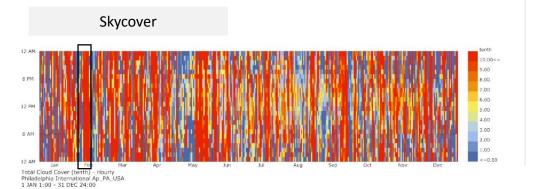
OUTDOOR

INDOOR



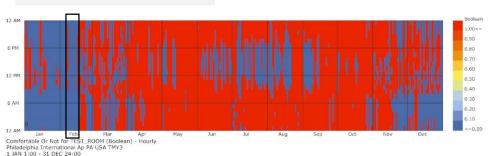
Comfort or not (Adaptive)





Indoor Temperature 12 AM 6 PM 12 PM 12 PM 13 AM 13 AM 14 Pet Mar Apr May Jun Jul Aug Sep Oct Nov Dec 11.10 7,40 13,70 4,40 13,70 4,40 13,70 13 In Temperature for TEST ROOM (C) - Hourly Philadelphia International Ap PA USA TMY3 13 AM 130 - 13 IDEC 24:000

Comfort or not (Adaptive)



Adaptive: 65.45%

PMV: 38.17%