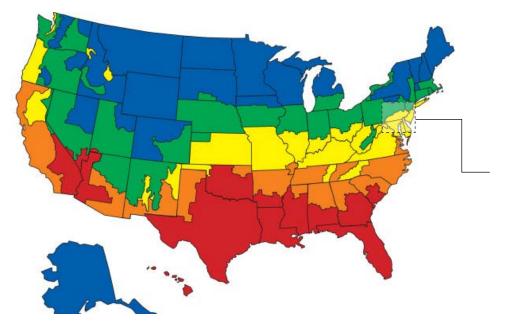
THERMAL AND VISUAL COMFORT MAXIMIZATION OF AN UNCONDITIONED SPACE	CE
PHILADELPHIA, PA	

DAWOON JUNG
FALL 2016 / ARCH 753 BUILDING PERFORMANCE SIMULATION
PENNDESIGN / UNIVERSITY OF PENNSYLVANIA



WEATHER DATA: PHILADELPHIA.INTL.AP.7244080\_TMY3

LATITUDE: 39.87 LONGITUDE: -75.23

## Climate Zones

Zone 1 is less than 2,000 CDD and greater than 7,000 HDD

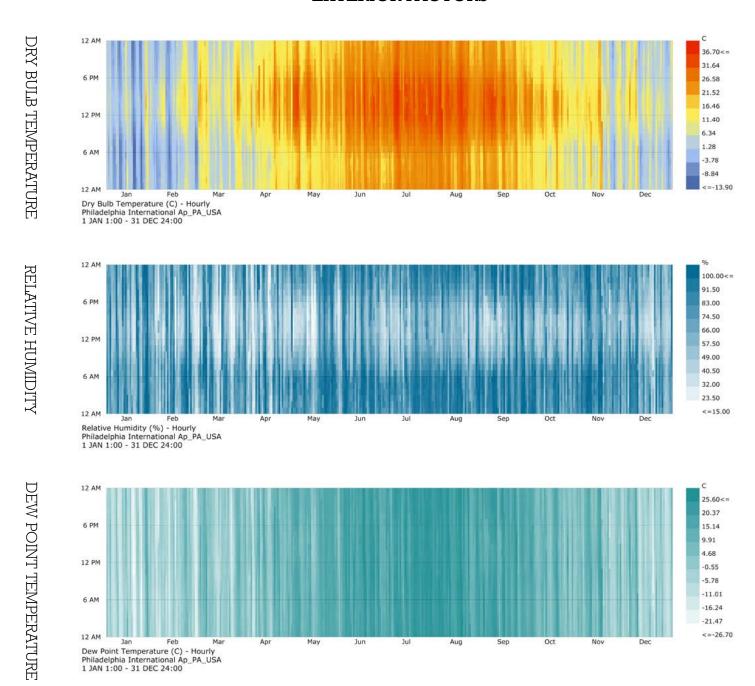
Zone 2 is less than 2,000 CDD and  $5,500 \sim 7,000 \text{ HDD}$ 

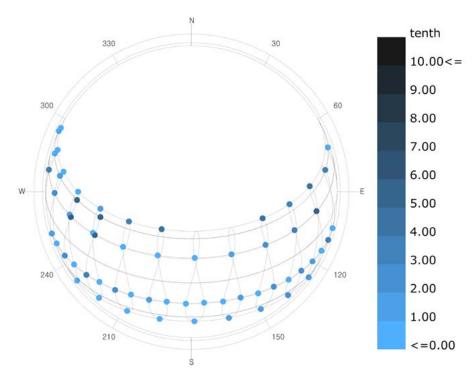
Zone 3 is less than 2,000 CDD and  $4,000 \sim 5,499 \text{ HDD}$ 

Zone 4 is less than 2,000 CDD and less than 4,000 HDD

Zone 5 is 2,000 CDD or more and less than 4,000 HDD

## **EXTERIOR FACTORS**





Sun-Path Diagram - Latitude: 39.17 Hourly Data: Total Cloud Cover (tenth) Baltimore Blt Washngtn IntL\_MD\_USA

... Conditional Selection Applied:

Total Cloud Cover < 6

61.0 hours of total 145.0 sun up hours(42.07%).

