Team 25: CANDL

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CANDL Status Update

- Status of first node:
  - Housing for light 90% complete
  - Improved accuracy of light
- Additional nodes being created
- Alignment assistant in progress

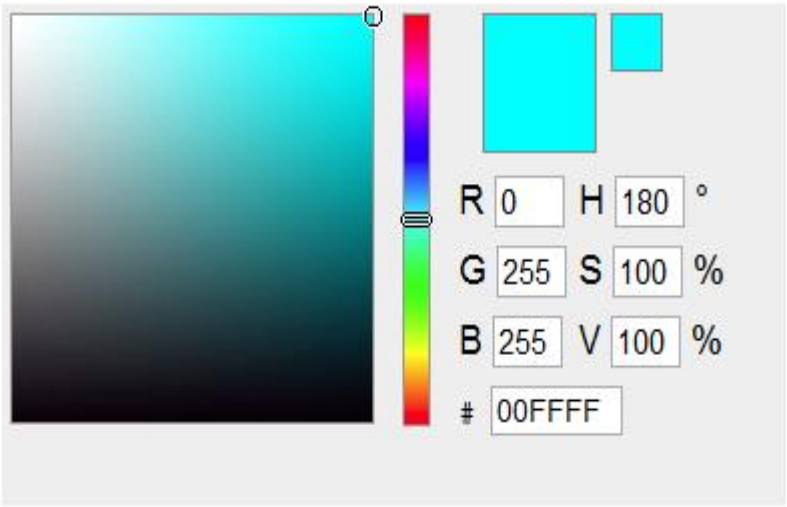
CANDL Latency Test

Trial #	Latency
1	20ms
2	18.333ms
3	15ms
4	15ms
5	15ms
6	15ms
7	15ms
8	15ms

CANDL Latency Test

- Considerations:
  - Tested with only one node
  - May be higher with multiple nodes receiving from the App
  - Will still probably not be significant delay

CANDL Color Accuracy Test

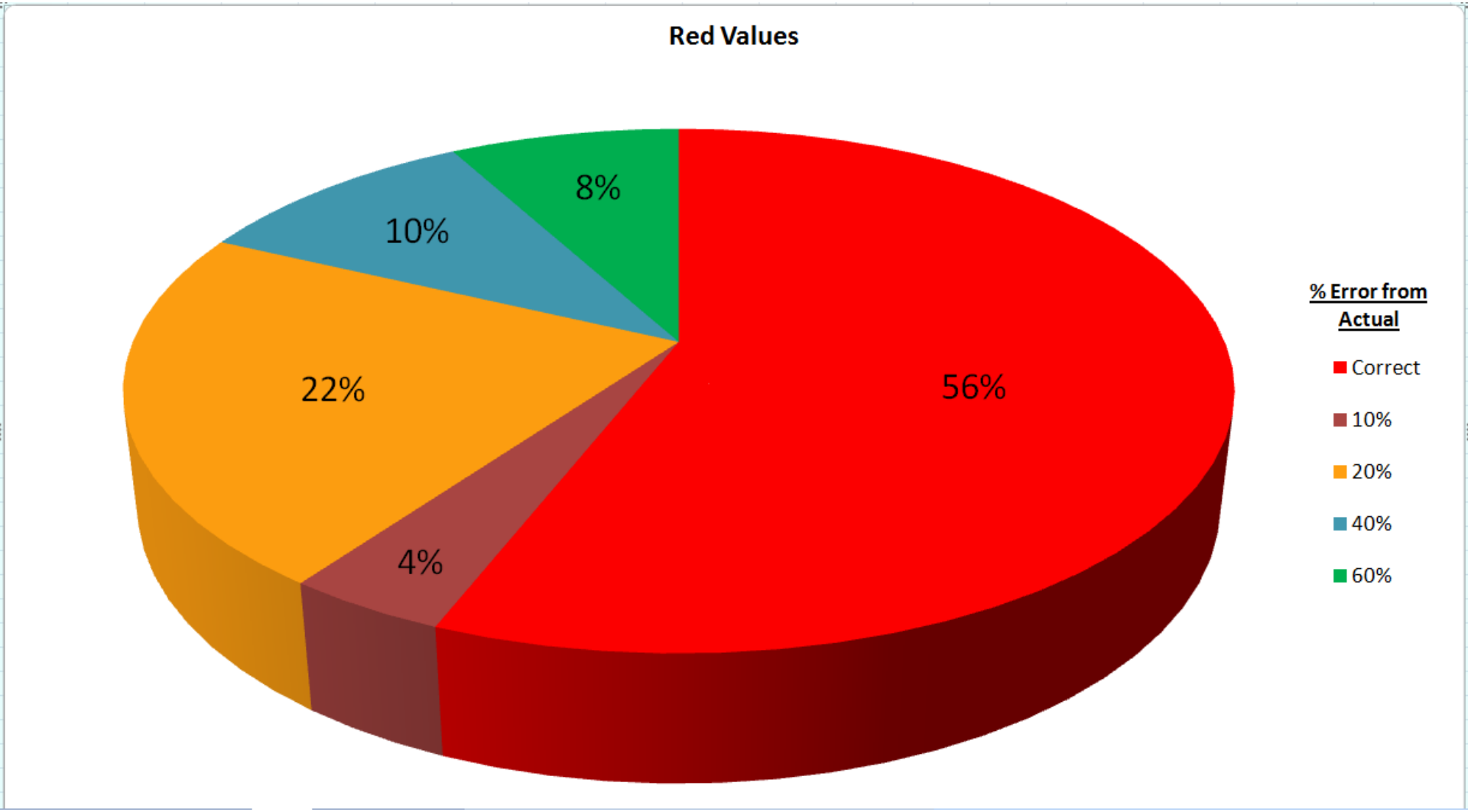


RGB color codes chart

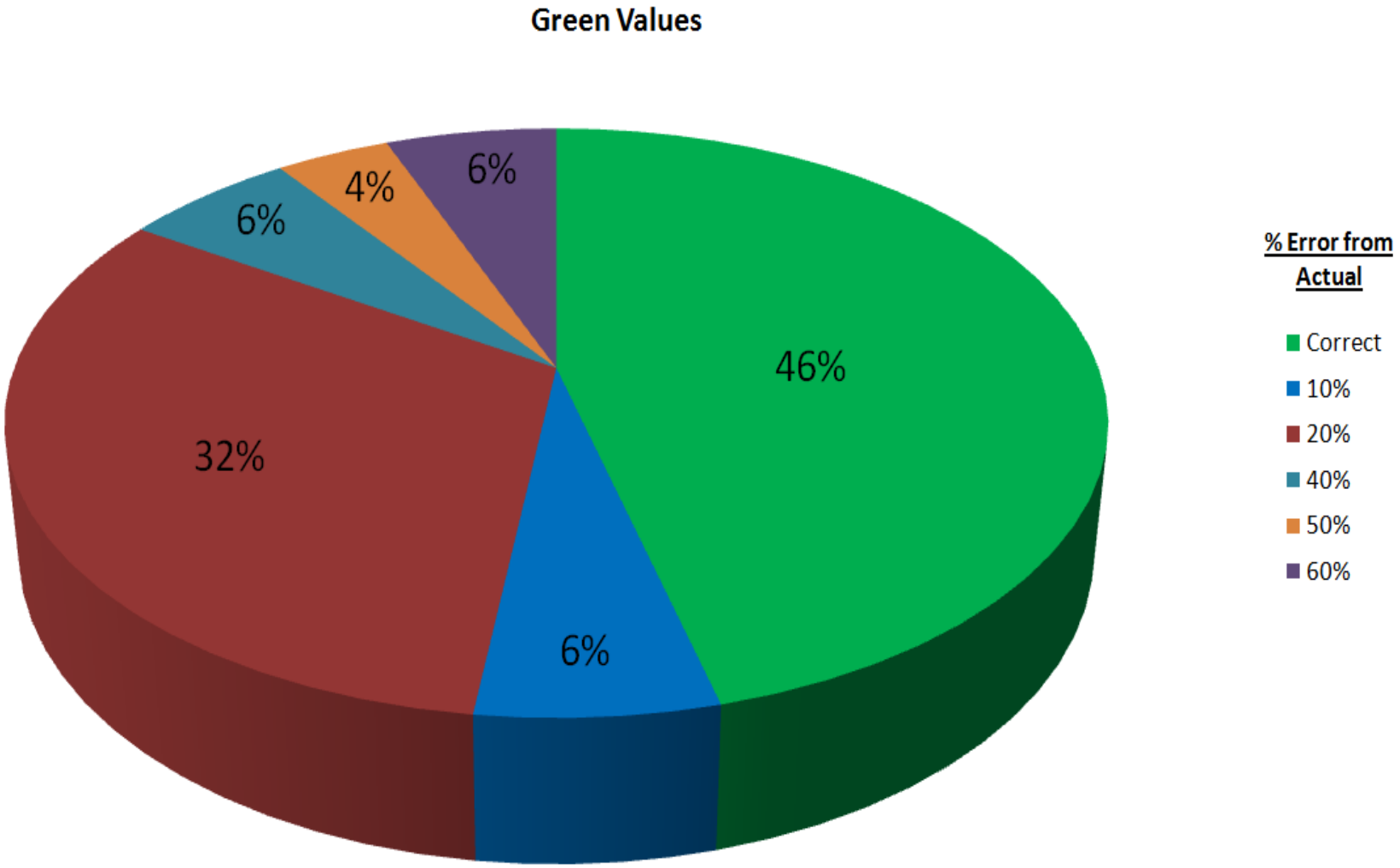
Hover with cursor on color to get the hex and decimal color codes below:

Hex color code:	00FFFF
Decimal color code:	**R =** 0 **G =** 255 **B =** 255

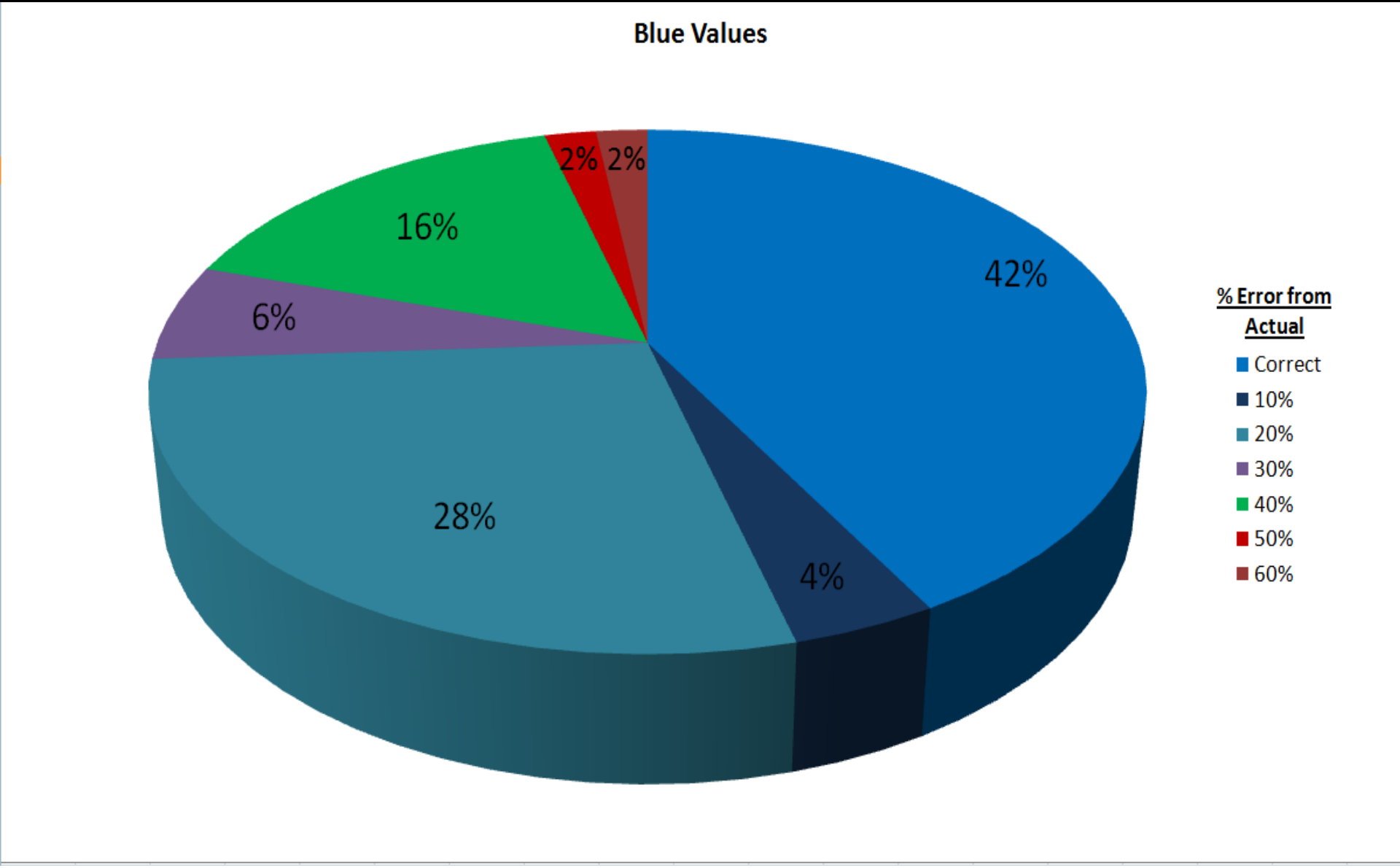
CANDL Color Accuracy Test



CANDL Color Accuracy Test



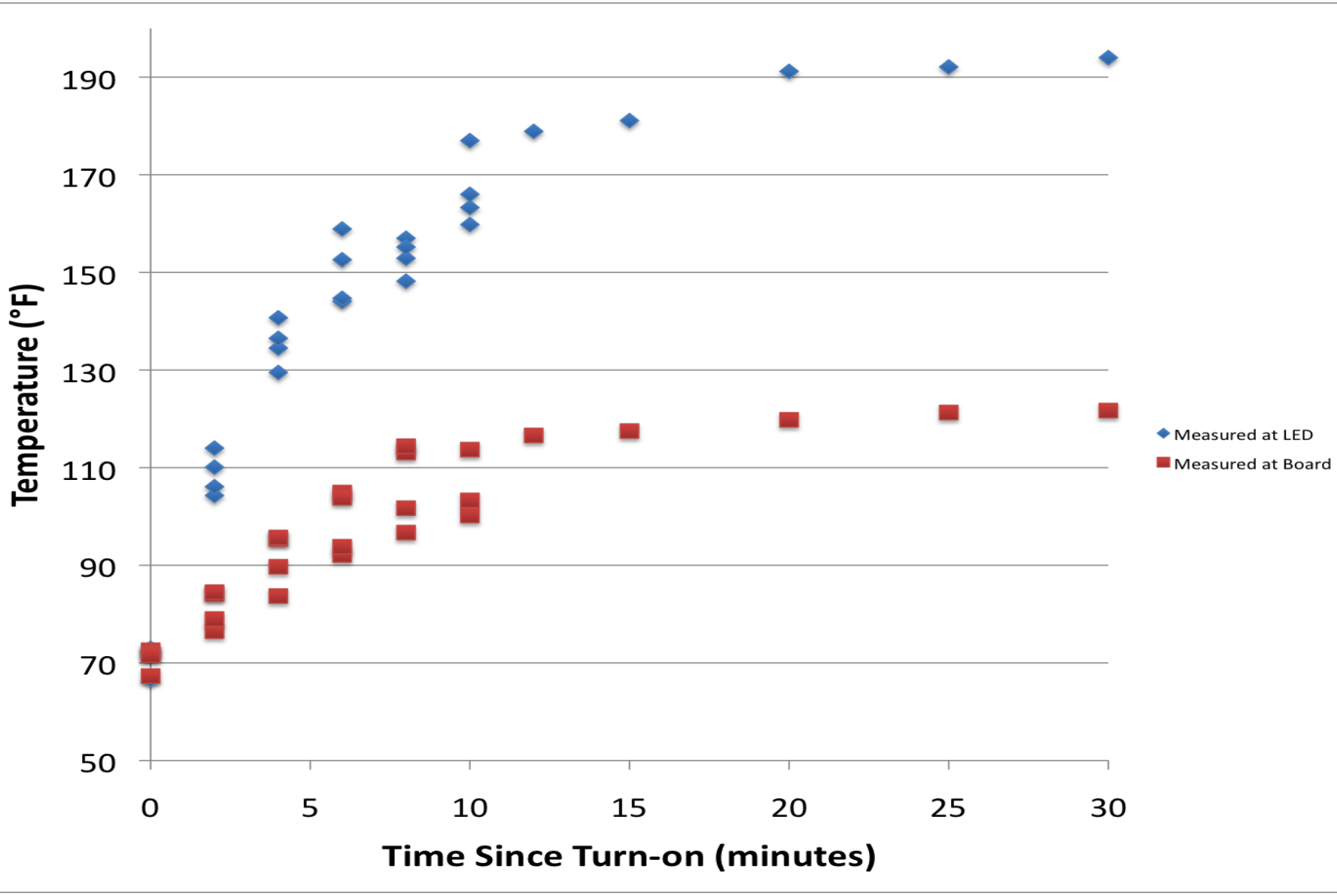
CANDL Color Accuracy Test



CANDL Color Accuracy Test

- Test subject tended to guess the correct hue
- Lights tended to appear washed out due to use of only one node and inevitable daylight
- Accuracy varied widely per test subject
- Some error may also be caused by inaccurate color representation in phone’s display

CANDL Heat Test



CANDL Heat Test

- Lit at full intensity white light
- Used infrared thermometer
- After a long period of time, lights exceed operating range
- Heat sink lights, add vents and/or include temperature control in software

CANDL Conclusion

- Latency is not a problem
- Spend some more time calibrating color
- Figure out the best way to deal with heat

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Questions?