MIDWEST AERIAL SERVICES

INFRARED MOISTURE SURVEY REPORT

ANDREW SUDA
HIGH RIDGE, MO
(314) 805-5820

TO:

OLSON
ROOFING SYSTEMS

FOR:

LOCATION:

[redacted]
Maryland Heights, MO 63146

Report Date: 07/21/2021

Job Number: 21-0701

Foreword

This infrared inspection report provides documentation of thermal patterns detected in your roofing system. It incorporates a subjective evaluation to aid in prioritizing repairs.

This report meets the documentation requirements of the Infraspection Institute Standard for Infrared Inspection of Insulated Roofs, as well as standards and specifications published by other recognized standards organizations.

How Infrared Thermography Works

Infrared imagers are camera - like devices capable of detecting, displaying, and recording thermal patterns across the surface of an object. In black/white thermograms, white is hot and black is cold unless stated otherwise. When thermograms are in color, the colors in the scene are matched to the reference bar. Colors appearing closer to the top or right of the reference bar indicate higher temperatures. Colors appearing closer to the bottom or left of the reference bar indicate lower temperatures. Some thermal imagers are also capable of providing temperature values for imaged objects.

Repair Priority Ratings

Each thermogram in this report is given a Repair Priority Rating, which is based upon the qualified assistant's opinion of how critical the subject item is to facility operation. Unless stated otherwise, a Priority Rating of 1 indicates the highest priority while a Priority Rating of 3 indicates the lowest priority. Black boxes indicate a Priority Rating of 1, white boxes indicate a Priority Rating of 2, and green boxes indicate a Priority Rating of 1.

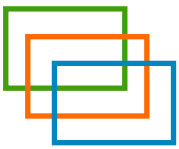
Regardless of Priority Rating, each exception noted in this report should be investigated for cause and corrected as soon as possible.

Report Summary

Inspection Date:	07/22/2021	
Report Date:	07/23/2021	
Job Number:	21-0701	
Type of Inspection:	Roof IR Inspection	
Purpose of Inspection:	Inspect Roof for Suspected Internal Moisture Content	
End User:	Andrew Suda - Midwest Aerial Services	
Project Location:	[redacted] Maryland Heights, MO 63146	
Thermographer:	Andrew Suda	
Certificate Number:	249858	
Certification Level:	Level I Thermographer	
Qualified Assistant:	Olson Roofing Systems	
Equipment Used:	Flir Vue Pro 336 13mm	
Weather Data:	**Day Skies:** Clear **AM:** 76 F (0800 CST) **Night Skies:** Clear	**Flight Time Range:** 1945 - 2040 hours **Cloud Cover:** 12% **Temp:** 85 F **Wind**: 5 mph NW
Last Precipitation:	07/16/2021 **Rain:** 1.17 in	
# Items Inspected:	37,308 sq' (TPO) Roof System	
# Thermograms:	21	

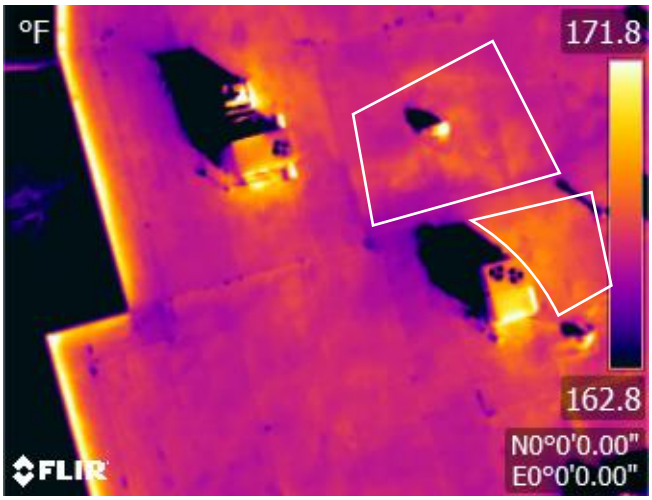
FAA Certified

Reference Key:



The approx. location of thermal image on the roof surface at 200' AGL *(Above Ground Level).*

Smaller rectangular boxes indicate data captured at 100' AGL.



Apparent moisture identified with white boxes.

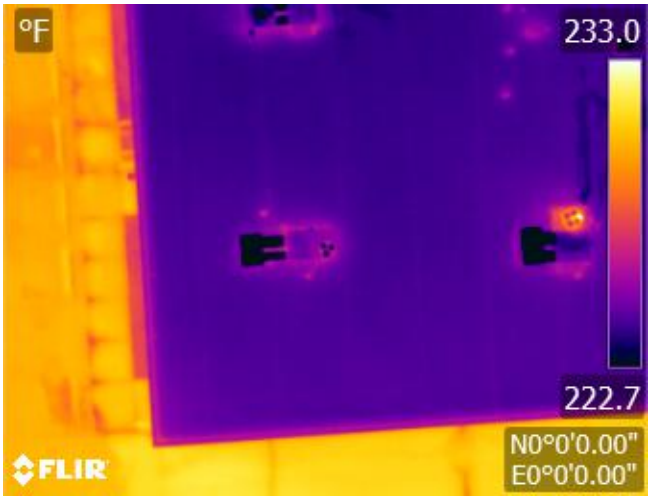
Direction of camera when the photo is captured.

Image #: Over Head View	**Job #**: 21-0701	**Date**: 07/22/2021
Wind Speed: 5 mph NW	**Cloud Cover**: 12%	**Humidity**: 64%
Ambient Temperature: 85 F	**Last Precipitation**: 07/16/2021	**Location**: Direct Overhead Overview
Geolocation: Lat. N 38 Deg. 42'09" **Long:** W 90 Deg. 26'23"	**Equipment**: Flir Vue Pro 336 13mm	**Image Type**: Orthophoto w/ Artificial Intelligence
Comments: Flight Time: 1945 - 2040 hours		

AI (Artificial Intelligence) Enhanced

Area: 37,308 Sq Feet

6-A



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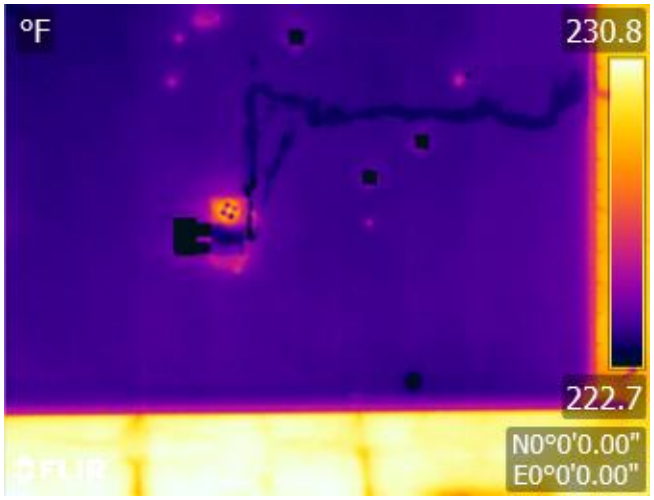

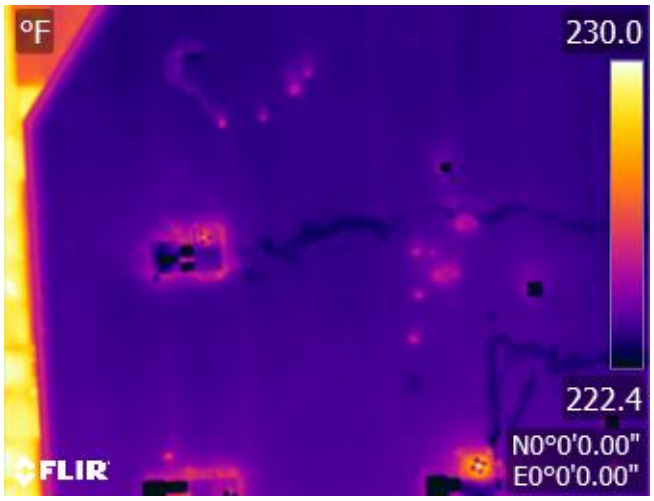
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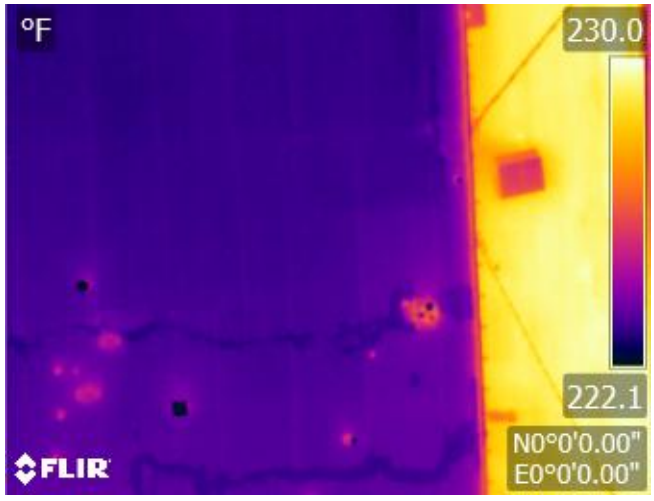
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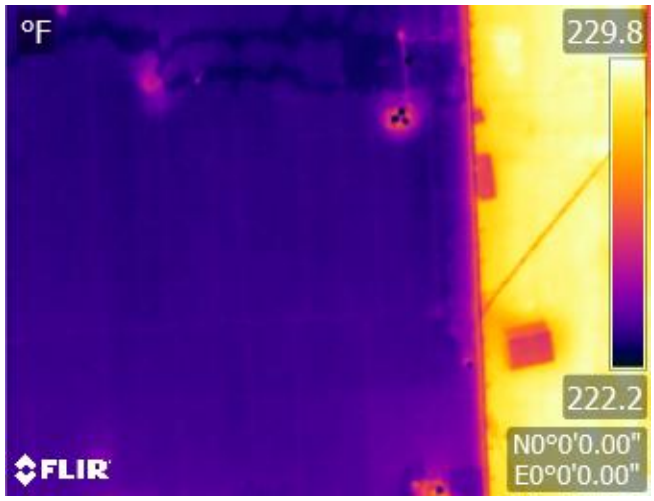
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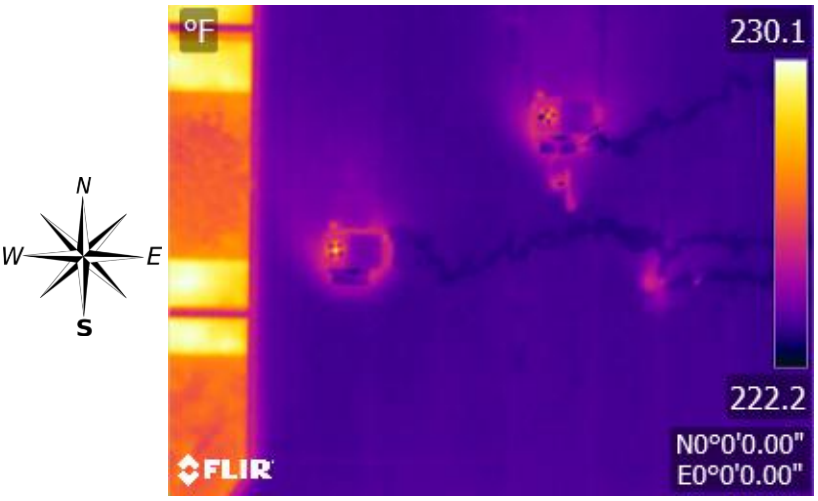
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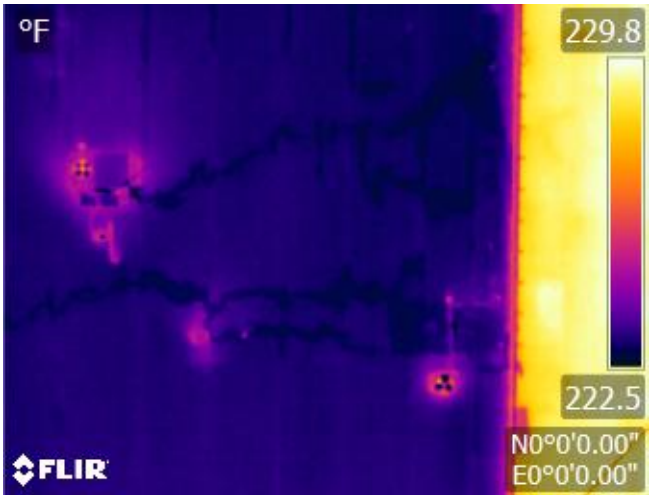
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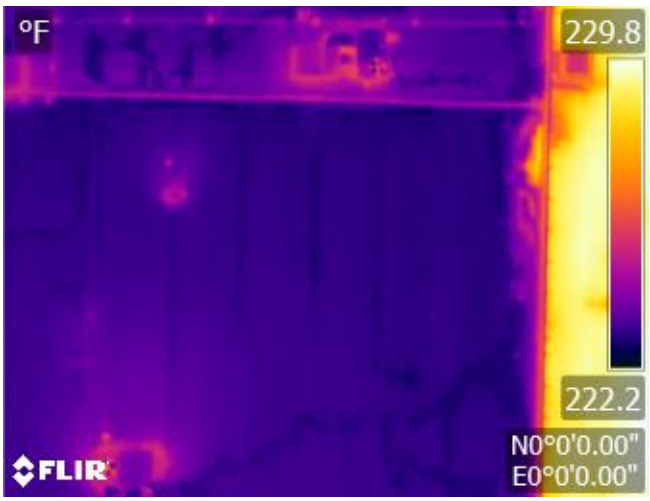
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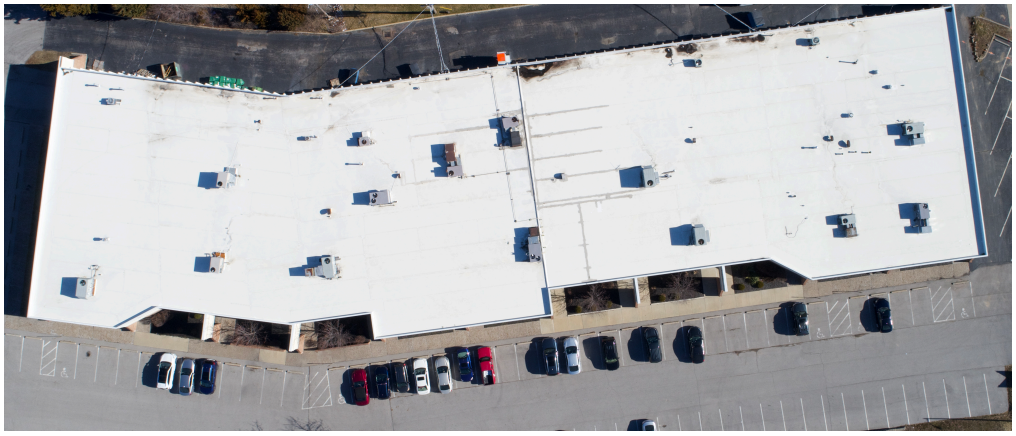


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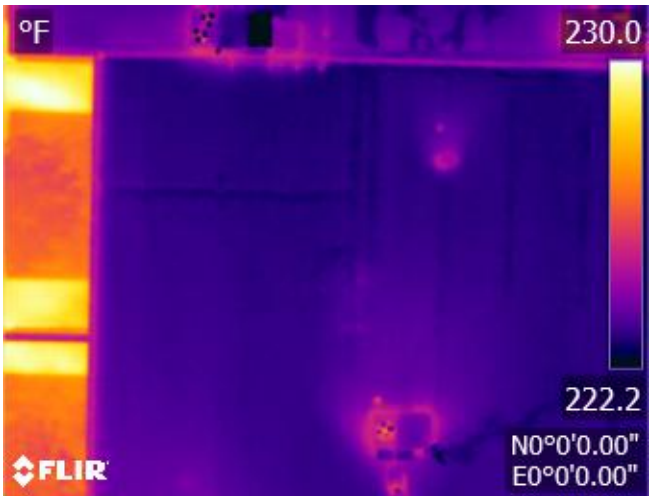
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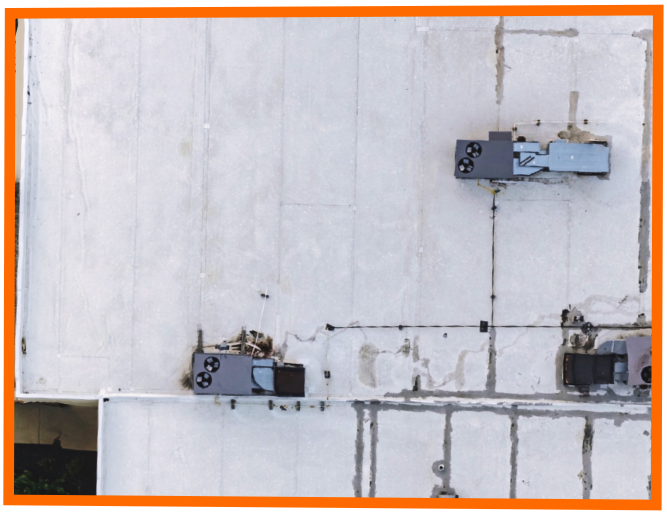


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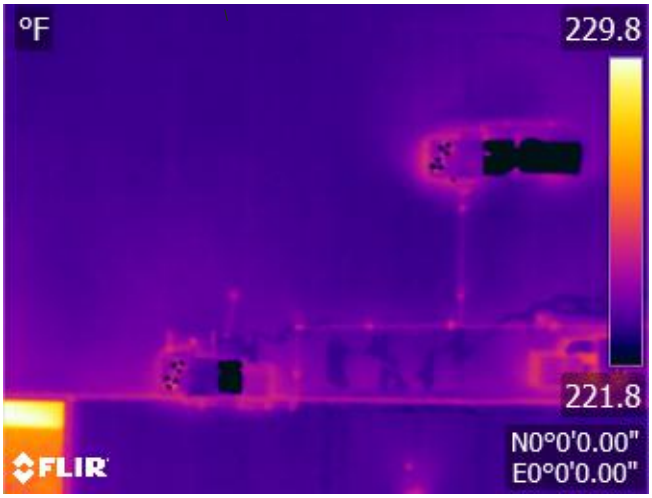
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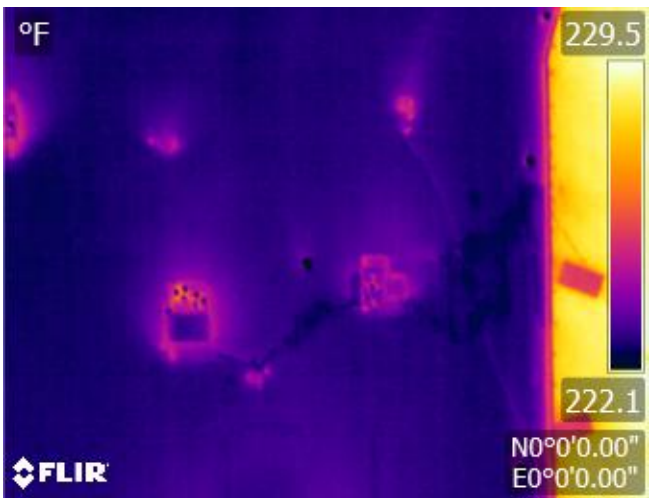
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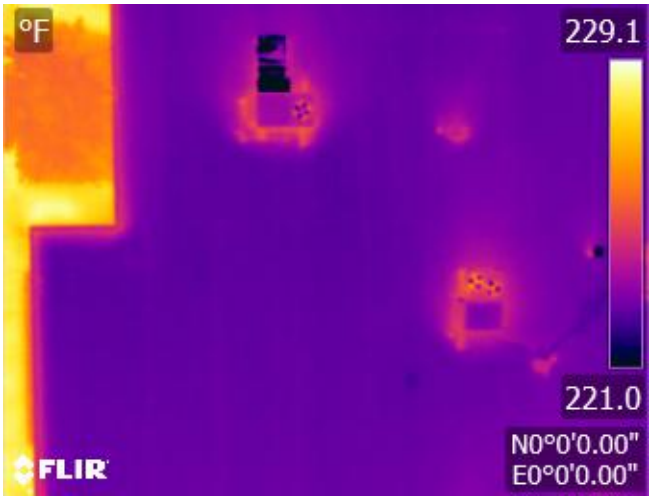
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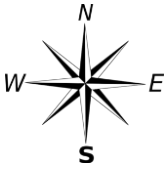
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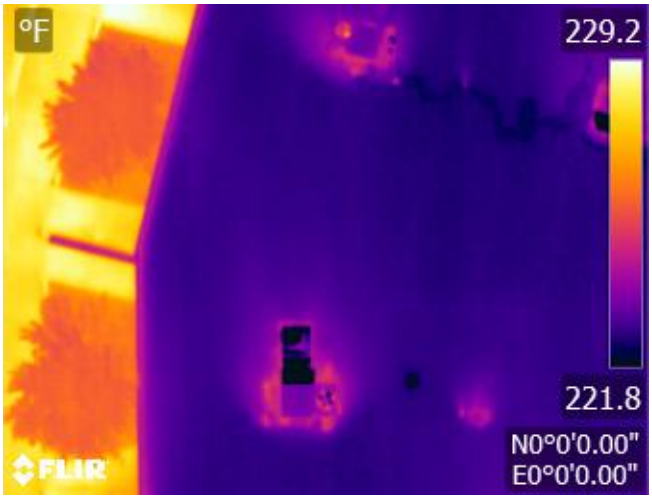
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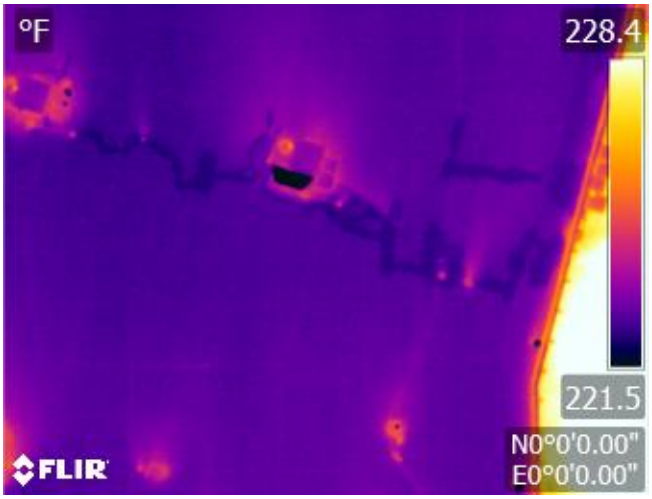
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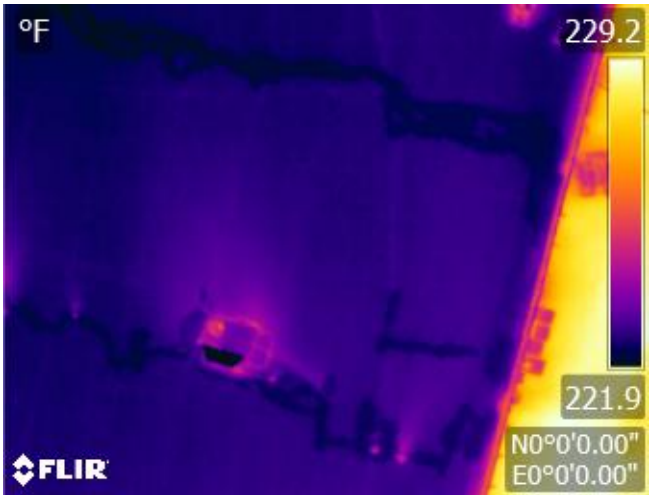
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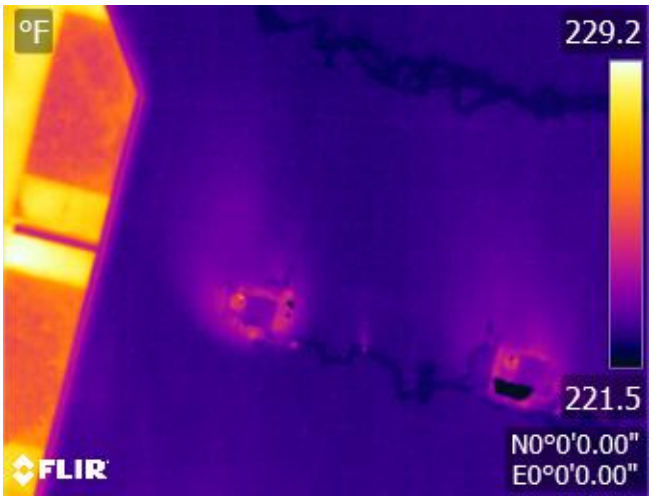
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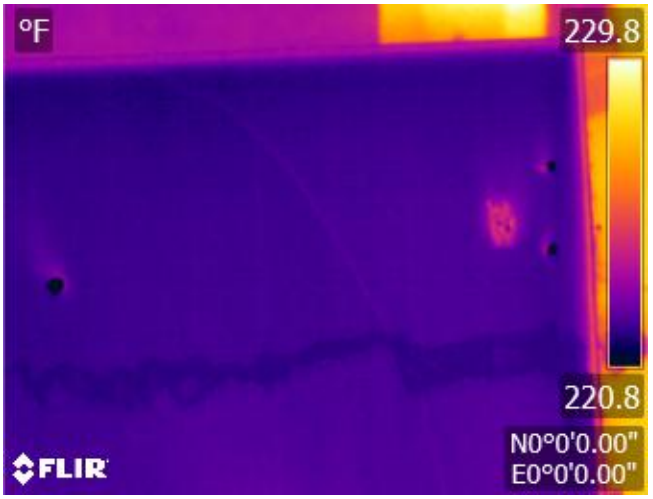
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