

# The Passive Infra-Red Sensor Detection Analysis Tool



Provided to you courtesy  
of



**Planehook Aviation Services, LLC**

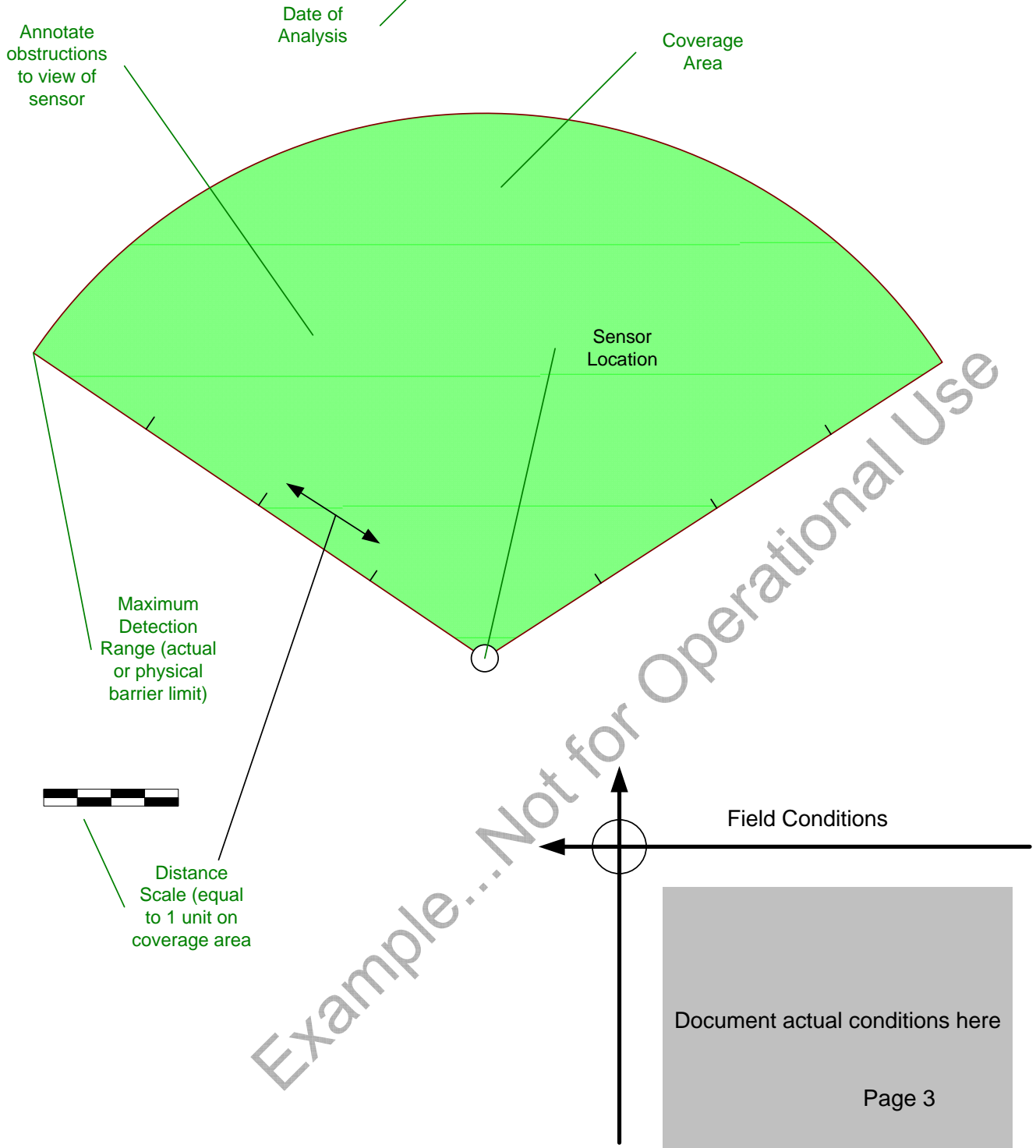
*Securing aviation one airport at a time*

# Instructions for Use

- Step 1: Determine the template that best fits your needs
  - One PIR Sensor with 110-degree view.....pg 6
  - One PIR Sensor with 180-degree view.....pg 7
  - Two PIR Sensors with 110-degree views, Configuration #1....pg 8
  - Two PIR Sensors with 110-degree views, Configuration #2....pg 9
  - Two PIR Sensors with 180-degree views.....pg 10
- Step 2: Locate and mark any obstacles to the field of the view of the PIR sensor on the template.
- Step 3: Conduct a daylight test by placing PIR sensor system to “Test” (most have a daylight sensor to prevent activation during normal daylight conditions).
- Step 4: Wearing typical clothing (clothes provide thermal shielding to the sensor), walk in the field of detection for the sensor, annotating on the template where the sensor indicates detection (see the manufacturer’s description and specifications for your system).
- Step 5: Conduct the same testing as in Step 4 during nighttime conditions, annotating on a separate template where you are detected.
- Step 6: Place the system back to “Normal.”
- These diagrams now show where your airport is especially vulnerable to criminals and terrorists based upon the sensitivity, view/orientation, and range of your sensor.
- ***Note: When filled in your diagram(s) should be treated as sensitive and disclosed only to those who have a need to know.***

	<b>Airport:</b>	
	PIR Detection Sensitivity Analysis	Date:

Location:
Sensor #

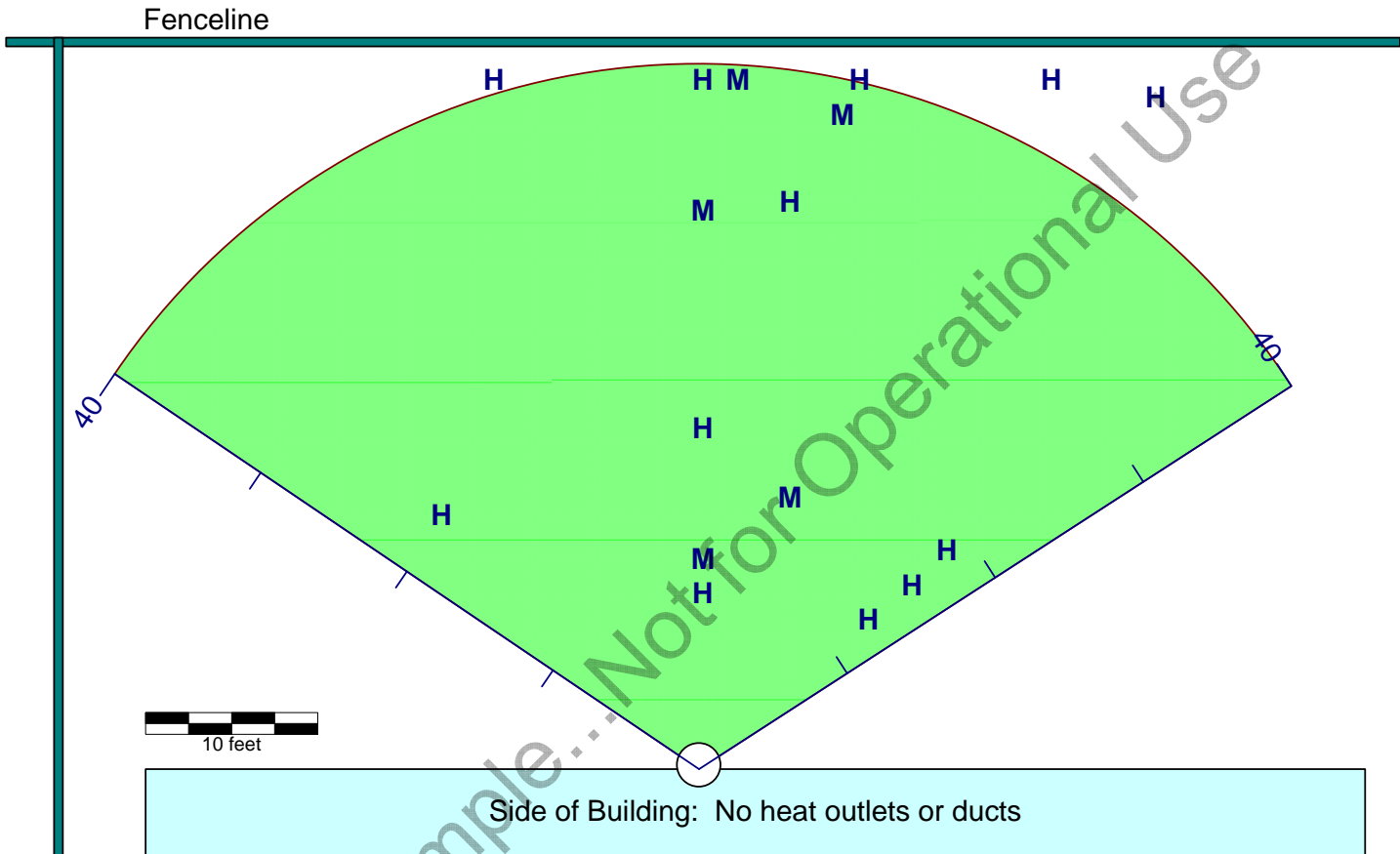


Document actual conditions here

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<b>PIR Detection Sensitivity</b>	
Single sensor 110-degree view	8/7/2007

Location: Test Location 1  
Sensor # 1



**Note:**  
Lowest detection sensitivity resulted in no motion being detected over entire area

**Field Conditions**

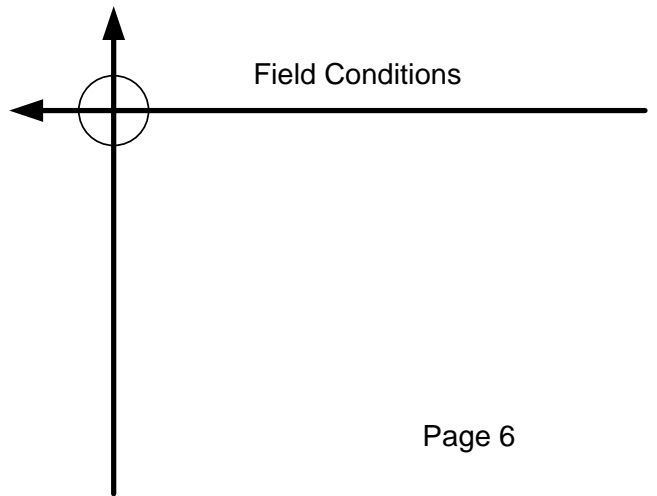
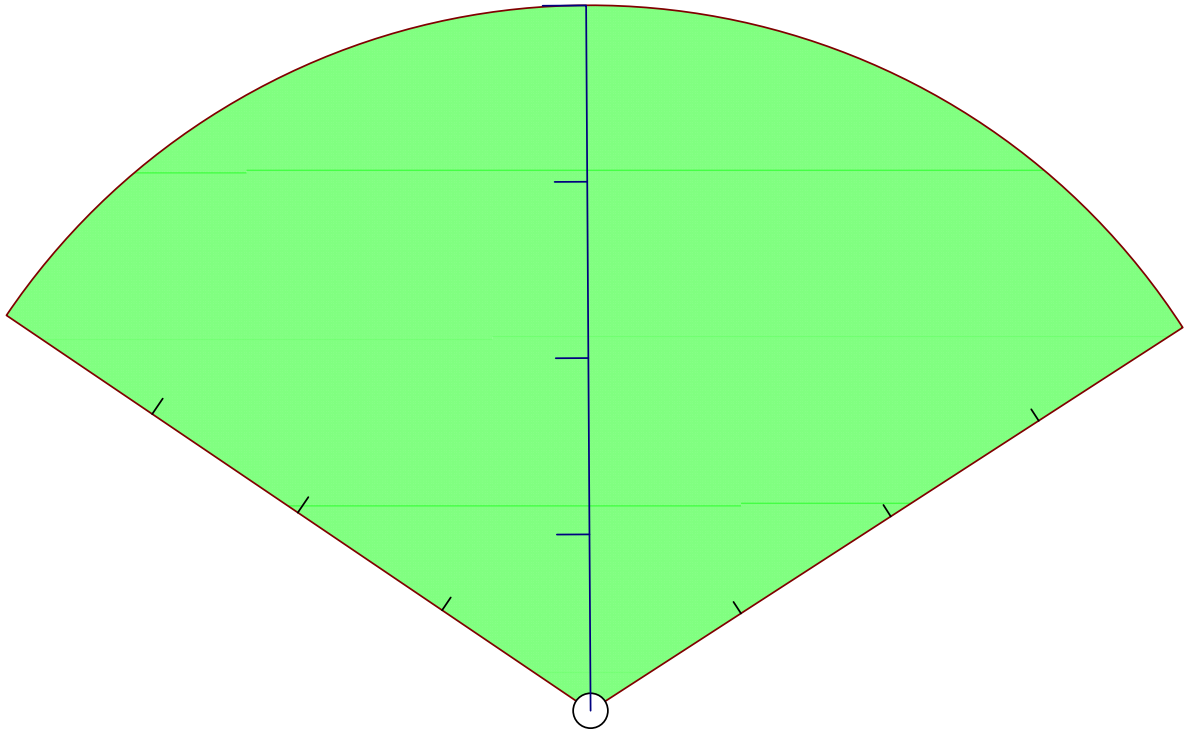
9/3/2007

Assessment conducted between 1600 and 1700 hrs CDT in DAYLIGHT conditions and ambient temperature of 90 F. Simulated intruder wore running shorts and short-sleeved t-shirt



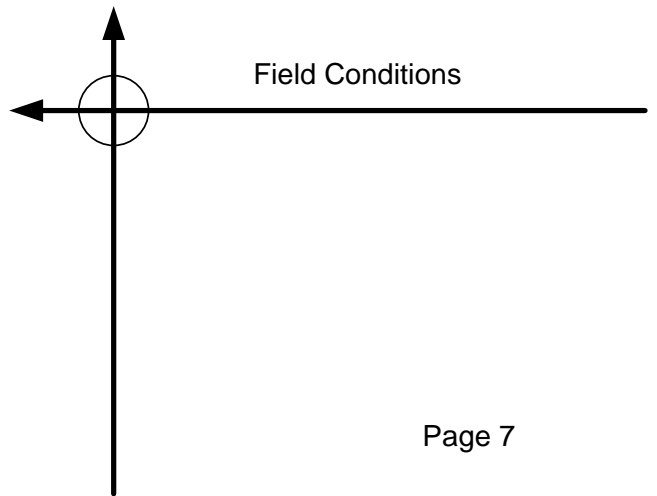
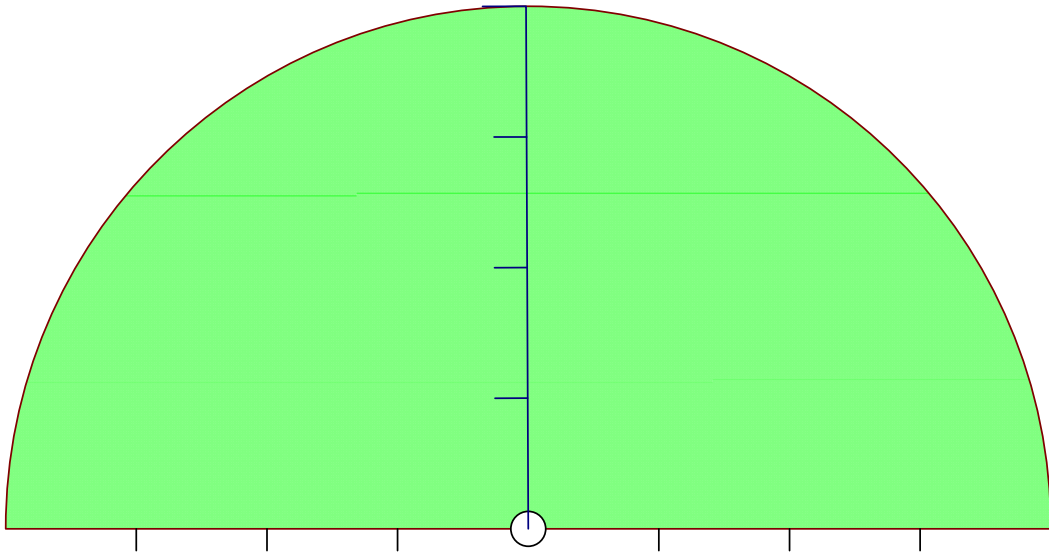
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	PIR Detection Sensitivity Analysis
Date:	

Location:
Sensor #



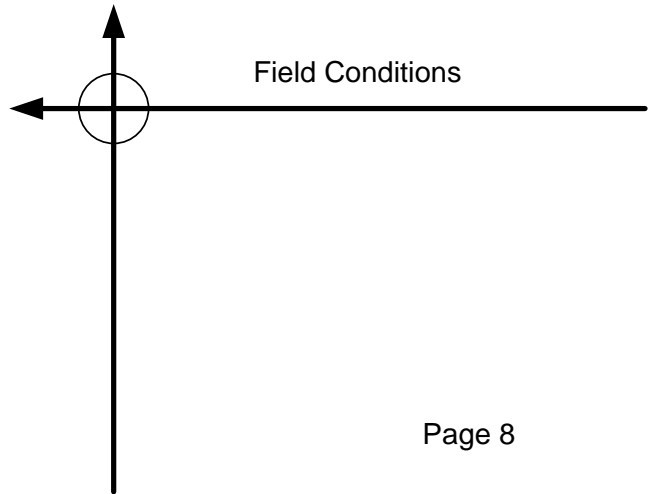
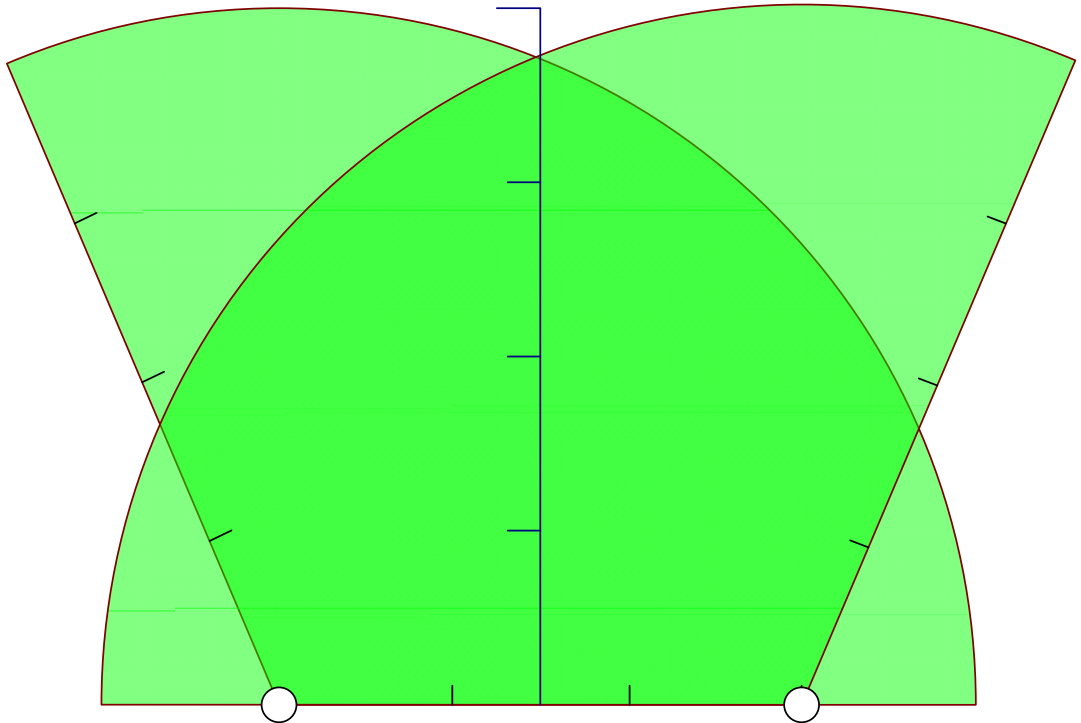
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	PIR Detection Sensitivity Analysis	Date:

Location:
Sensor #



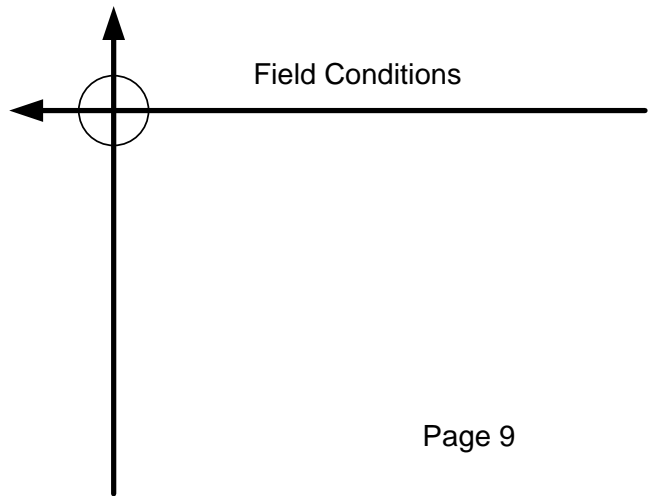
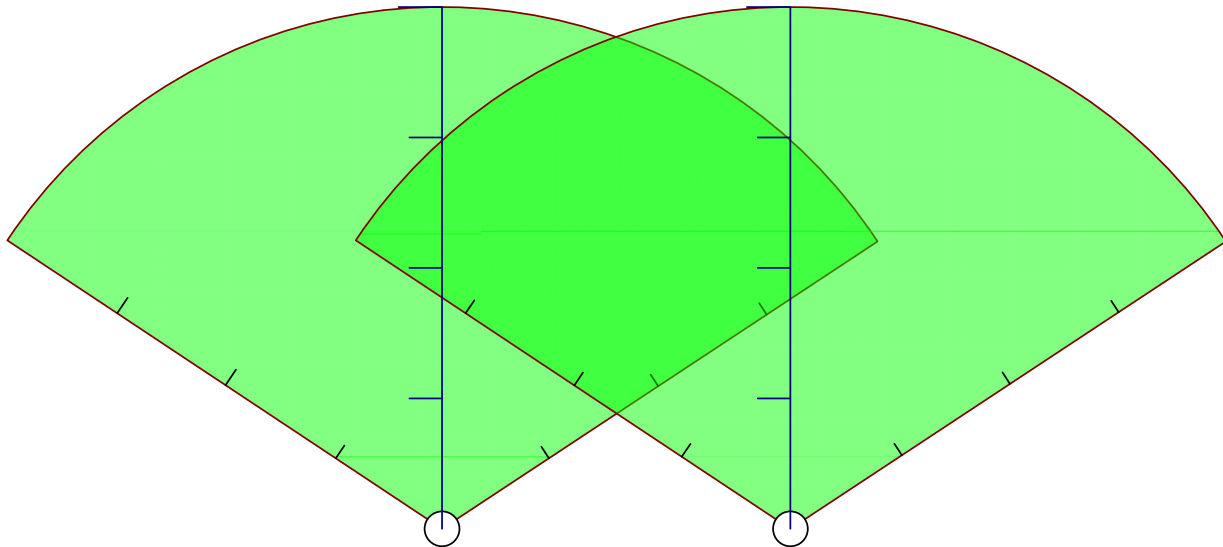
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	PIR Detection Sensitivity Analysis	Date:

Location:
Sensor #
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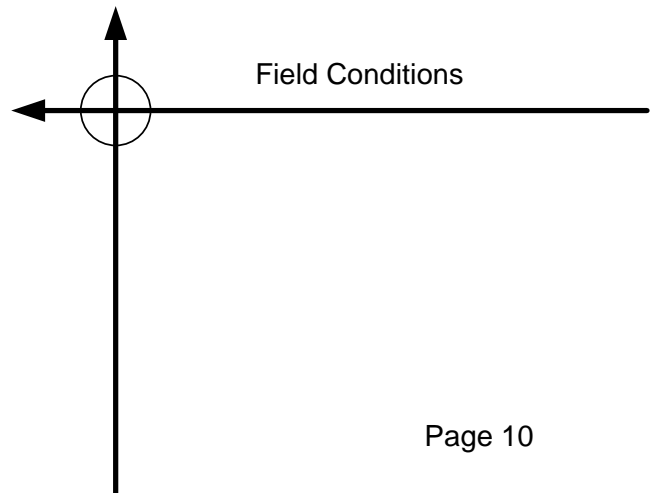
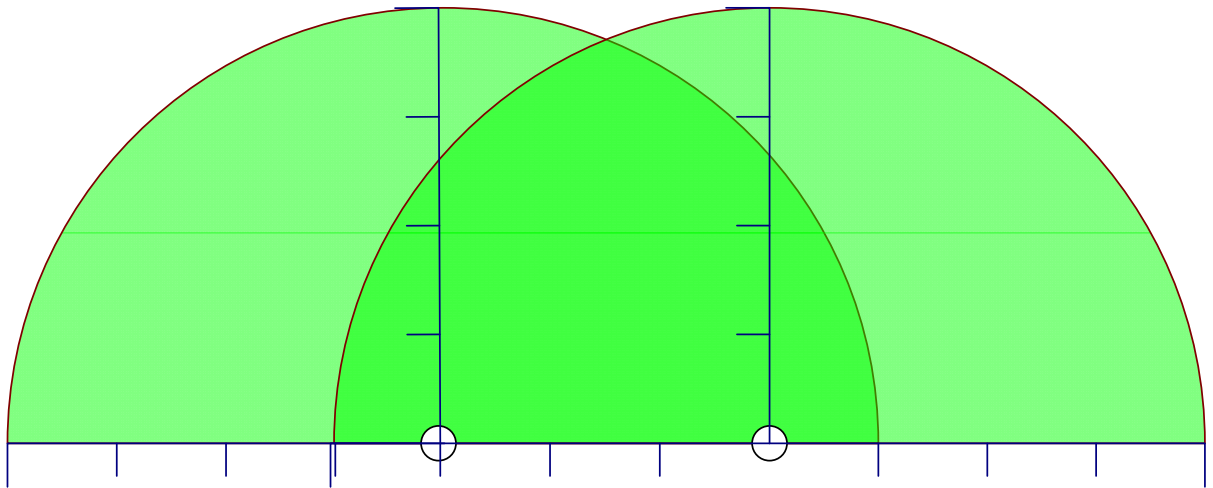
	<b>Airport:</b>	
	PIR Detection Sensitivity Analysis	Date:

Location:
Sensor #
Sensor #



	<b>Airport:</b>	
	PIR Detection Sensitivity Analysis	Date:

Location:
Sensor #
Sensor #



# Planehook's Contact Information

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