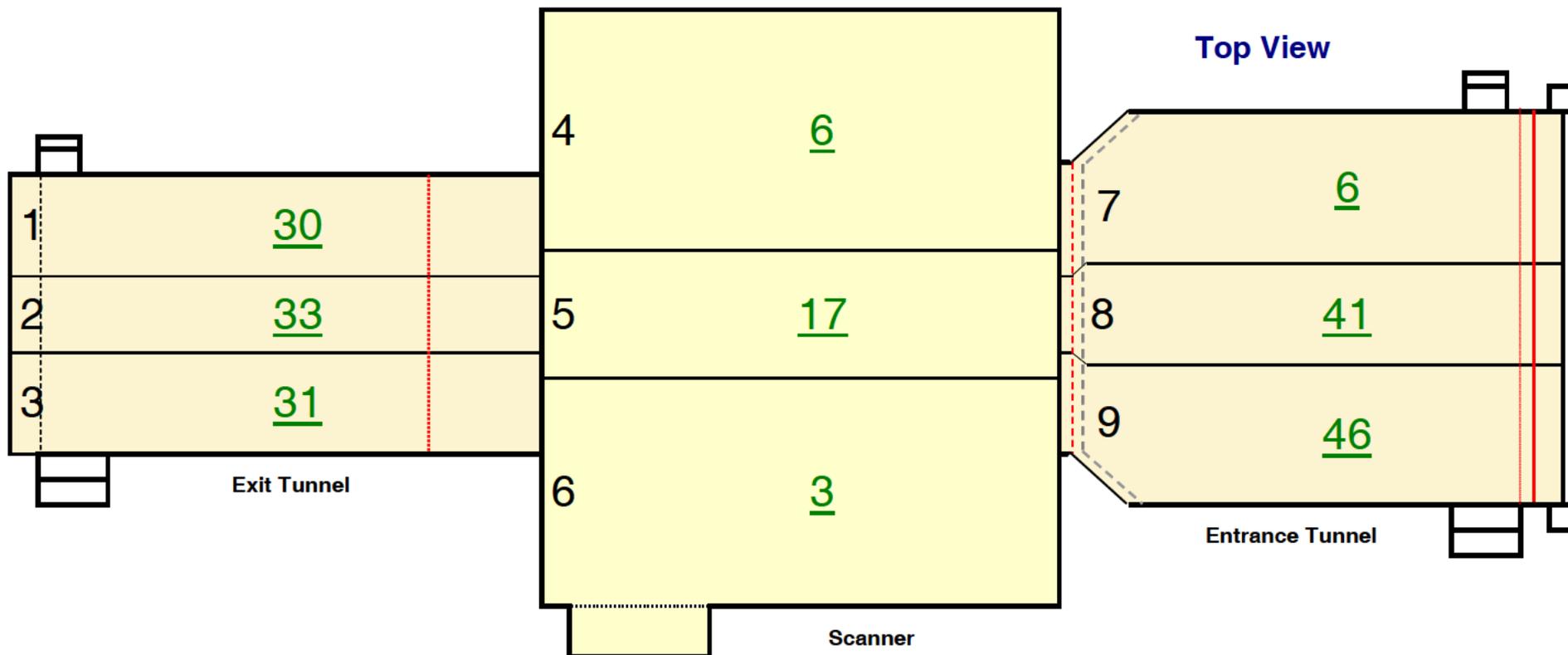


# RADIATION SURVEY WORKSHEET

## eXaminer Radiation Survey Information

Airport: <b>SJU</b>	Scanner Location: <b>FIS</b>	Case#: <b>356106</b>
Personnel Performing Radiation Survey: <span style="background-color: black; color: black;">XXXXXXXXXX</span>		Date Survey Performed: <b>3/3/2011</b>
Scanner Serial Number: <b>6203</b>	Entrance Tunnel Serial Number: <b>2135A</b>	Exit Tunnel Serial Number: <b>2135B</b>
High Reading: <b>27</b> Average Reading: <b>7.73</b> Min. Reading: <b>2</b>	High Reading: <b>220</b> Average Reading: <b>41.68</b> Min. Reading: <b>5</b>	High Reading: <b>176</b> Average Reading: <b>31.69</b> Min. Reading: <b>3</b>
<b>Good</b>	<b>Good</b>	<b>Good</b>
Radiation Meter: Type Meter: <b>451P</b>	Meter Serial Number: <b>96</b>	Calibration Due Date: <b>October 27, 2011</b>
N O T E S		
<b>Complete Radiation Survey (CRS)</b>	<b>Record Voltage and Beam Current here:</b>	
<b>Rename this Document before starting the Survey to:</b>	<b>Voltage:</b> <b>165</b> KV	<b>Beam Current:</b> <b>10.0</b> mA
<b>356-CRS-3MAR2011-6203</b>	<b>Maximum Safe Readings</b>	<b>Scanner</b> 350 <b>Tunnels</b> 350 <b>Curtains</b> 350
Step:	Procedure	Expected results
	Set Up: Obtain Inovision Ion Chamber Survey Meter and in an area away from the scanners, turn on the meter by pressing the On-Off key. Wait approx. 4 minutes for the meter to run through the initialization procedure.	The GUI will be visible and will indicate Standby. After the radiation meter initialization procedure is complete the meter will be reading less than 20 µR/hr and the meter will be ready for use.
2.	The scanner will be in Standby. Change the conveyor switch on the scanner to Stop. Change the exit tunnel conveyor switch to Off to stop the conveyor.	Both conveyors should be stopped.
3.	On the GUI dropdown screen, select diagnostic, followed by Radiation Survey. A radiation survey window will appear. Click "Turn On" button to turn x-rays on. Turn on x-rays prompt will say "Place survey bag on belt". Place IQTK bag on Entry Conveyor Belt.	A window indicating "Radiation Survey" will appear.
4.	When "Bag in survey position" appears, go to the FCC monitor and select "2" then <Enter>, verify and record the voltage and current in the displayed on the FCC screen in the planks provided above.	The high voltage is between <b>144KV</b> and <b>176KV</b> . The current is between <b>8.8mA</b> and <b>10.6mA</b> and the scanner X-ray indicator lights are on.
5.	Survey one of the areas indicated by the boxes in Appendix A2. Record the highest reading within the area. Repeat the process until all areas are surveyed and readings are recorded.	As the survey is conducted, the radiation meter indicates the degree of radiation emission.
6.	Review all radiation data sheets for high readings.	Readings shall not exceed 350 uR/hr in any box.
7.	After radiation survey is complete, click on "Start Conveyor" button on the GUI. Click the "Turn Off" button to turn off x-rays. Next click "Done". The IQTK bag will eject from exit tunnel. EDAC will reboot.	IQTK bag is ejected and scanner reboots.
7.	Visually inspect the entrance and exit of the system for X-ray caution hazard signs.	X-ray hazard signs reading "Do not insert any part of the body when system is energized" are posted at entrance and exit of system.
9.	Fill out the eXaminer radiation sticker and adhere to to the frame of the eXaminer under door #5 on the left side of the scanner.	Readings shall not exceed 350 uR/hr in any box.

# RADIATION SURVEY WORKSHEET

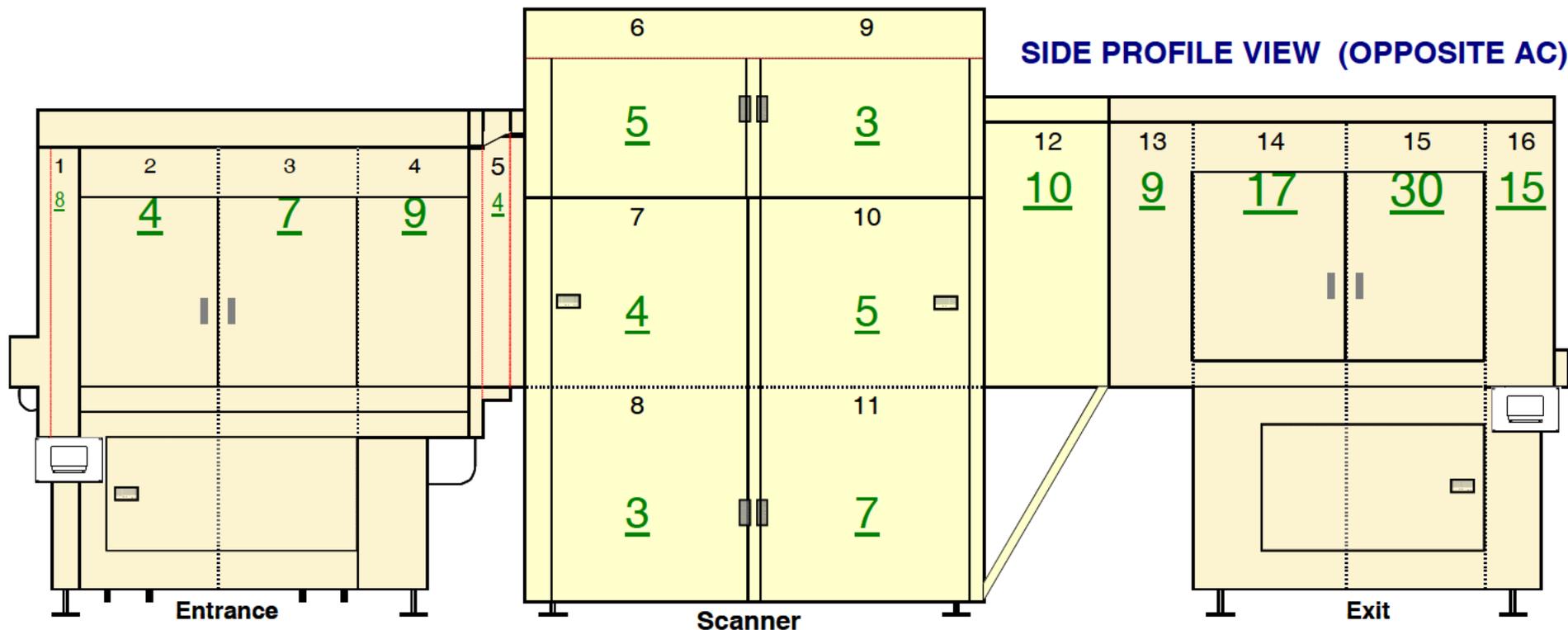


GOOD

Top View			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		μR/Hr	
1	Exit Conveyor Top Panel	30	
2	Exit Conveyor Top Panel	33	
3	Exit Conveyor Top Panel	31	
4	Scanner Conveyor Top Panel	6	
5	Scanner Conveyor Top Panel	17	
6	Scanner Conveyor Top Panel	3	
7	Entrance Conveyor Top Panel	6	
8	Entrance Conveyor Top Panel	41	
9	Entrance Conveyor Top Panel	46	

Highest Reading	46
Average Reading	24
Lowest Reading	3

# RADIATION SURVEY WORKSHEET

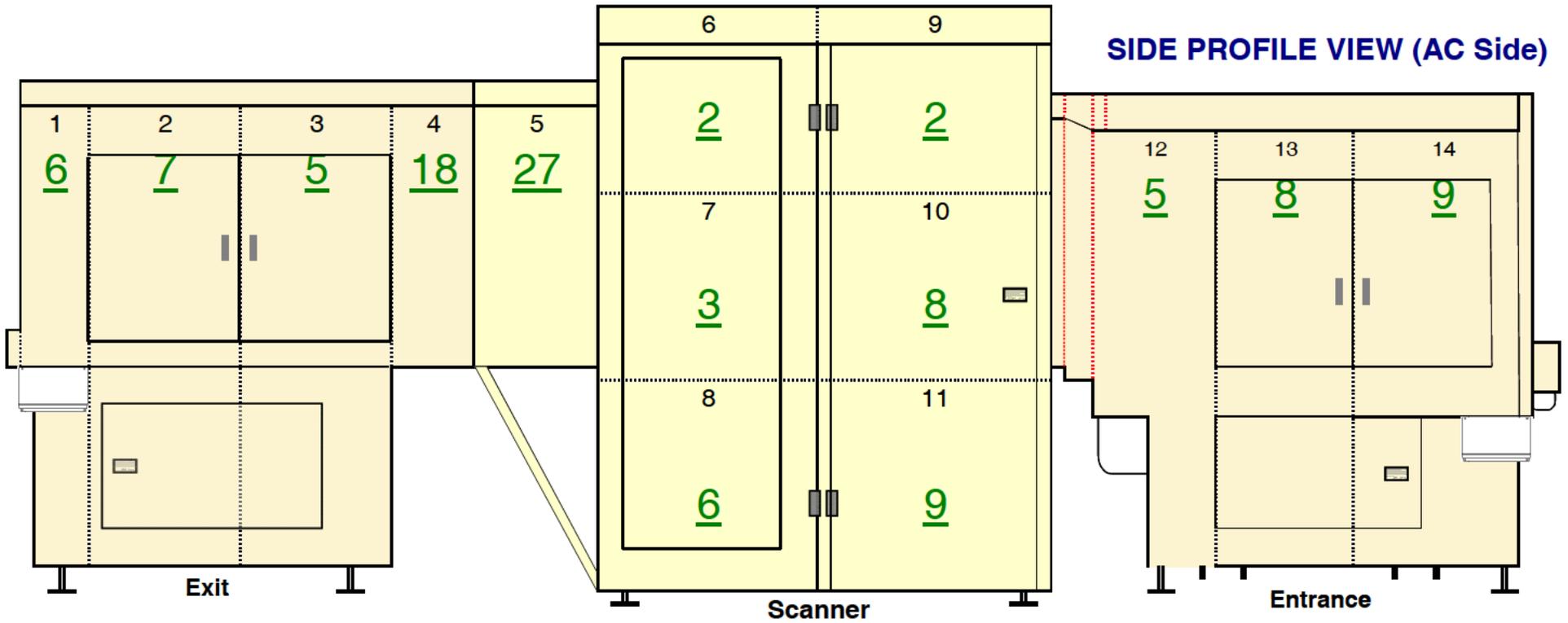


SYSTEM - SIDE PROFILE VIEW (Opposite AC Side)			
Scattered Radiation Measurement Points Worksheet			
Record highest reading per panel		μR/Hr	No PROBLEM
1	Entrance Conveyor Panel	8	
2	Entrance Conveyor Panel	4	
3	Entrance Conveyor Panel	7	
4	Entrance Conveyor Panel	9	
5	Entrance Conveyor / Scanner Panel	4	
6	Upper Scanner Panel	5	
7	Middle Scanner Panel	4	
8	Lower Scanner Panel	3	
9	Upper Scanner Panel	3	
10	Middle Scanner Panel	5	
11	Lower Scanner Panel	7	
12	Exit Conveyor / Scanner Panel	10	
13	Exit Conveyor Panel	9	
14	Exit Conveyor Panel	17	
15	Exit Conveyor Panel	30	
16	Exit Conveyor Panel	15	

GOOD

Highest Reading	30
Average Reading	9
Low Reading	3

# RADIATION SURVEY WORKSHEET



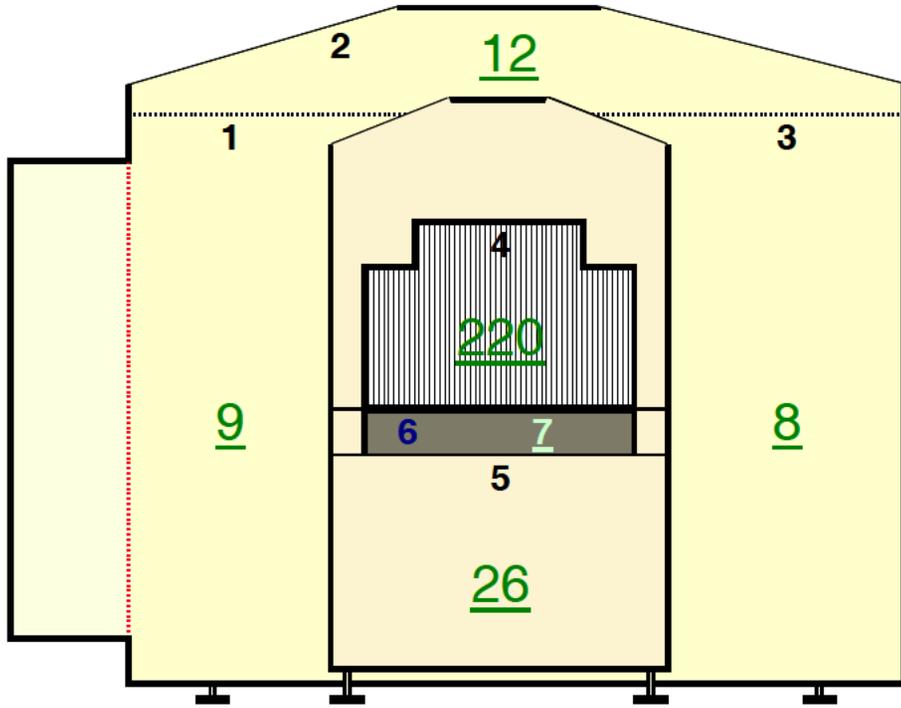
SYSTEM - SIDE PROFILE VIEW ( AC Side)			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		μR/Hr	
1	Exit Conveyor Panel	6	
2	Exit Conveyor Panel	7	
3	Exit Conveyor Panel	5	
4	Exit Conveyor Panel	18	
5	Exit Conveyor / Scanner Panel	27	
6	Upper Scanner Pane	2	
7	Middle Scanner Panel	3	
8	Lower Scanner Panel	6	
9	Upper Scanner Panel	2	
10	Middle Scanner Panel	8	
11	Lower Scanner Panel	9	
12	Entrance Conveyor / Scanner Panel	5	
13	Entrance Conveyor Panel	8	
14	Entrance Conveyor Panel	9	

GOOD

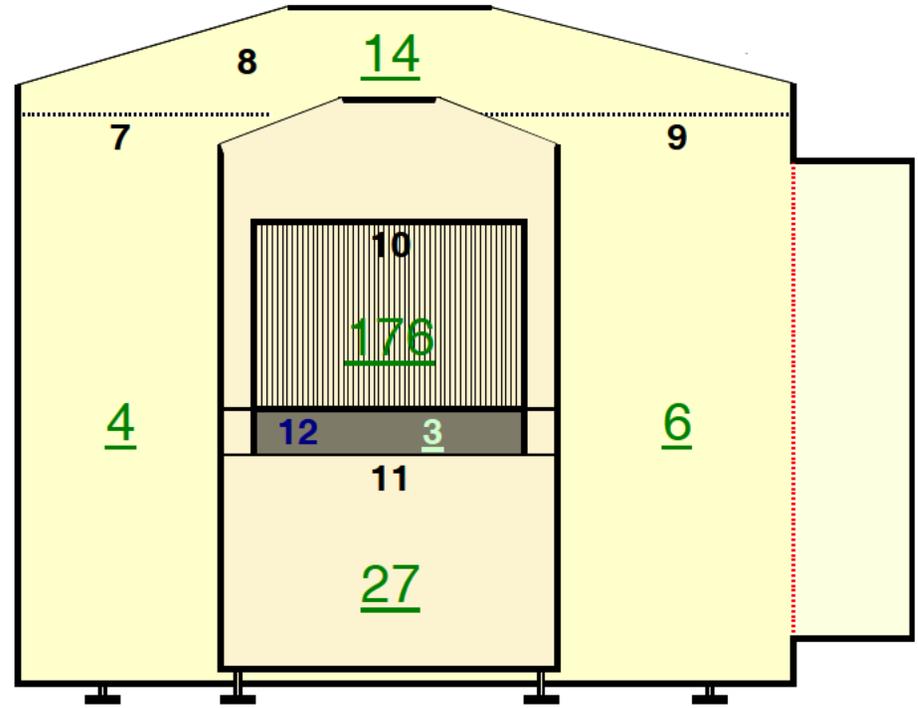
Highest Reading	27
Average Reading	8
Low Reading	2

# RADIATION SURVEY WORKSHEET

## SYSTEM - FACES (End Views)



eXaminer entrance



eXaminer exit

SYSTEM - FACES (End Views)			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		$\mu\text{R}/\text{Hr}$	
1	Scanner Panel	9	
2	Scanner Top Panel	12	
3	Scanner Panel	8	
4	Belt Entrance	220	
5	Entrance Lower Panel	26	
6	Belt Lower Fascia Cover Entrance	7	
7	Scanner Panel	4	
8	Scanner Top Panel	14	
9	Scanner Panel	6	
10	Belt Exit	176	
11	Exit Lower Panel	27	
12	Belt Lower Fascia Cover Exit	3	

GOOD

Highest Reading	220
Average Reading	43
Low Reading	3