

RADIATION SURVEY WORKSHEET

eXaminer Radiation Survey Information

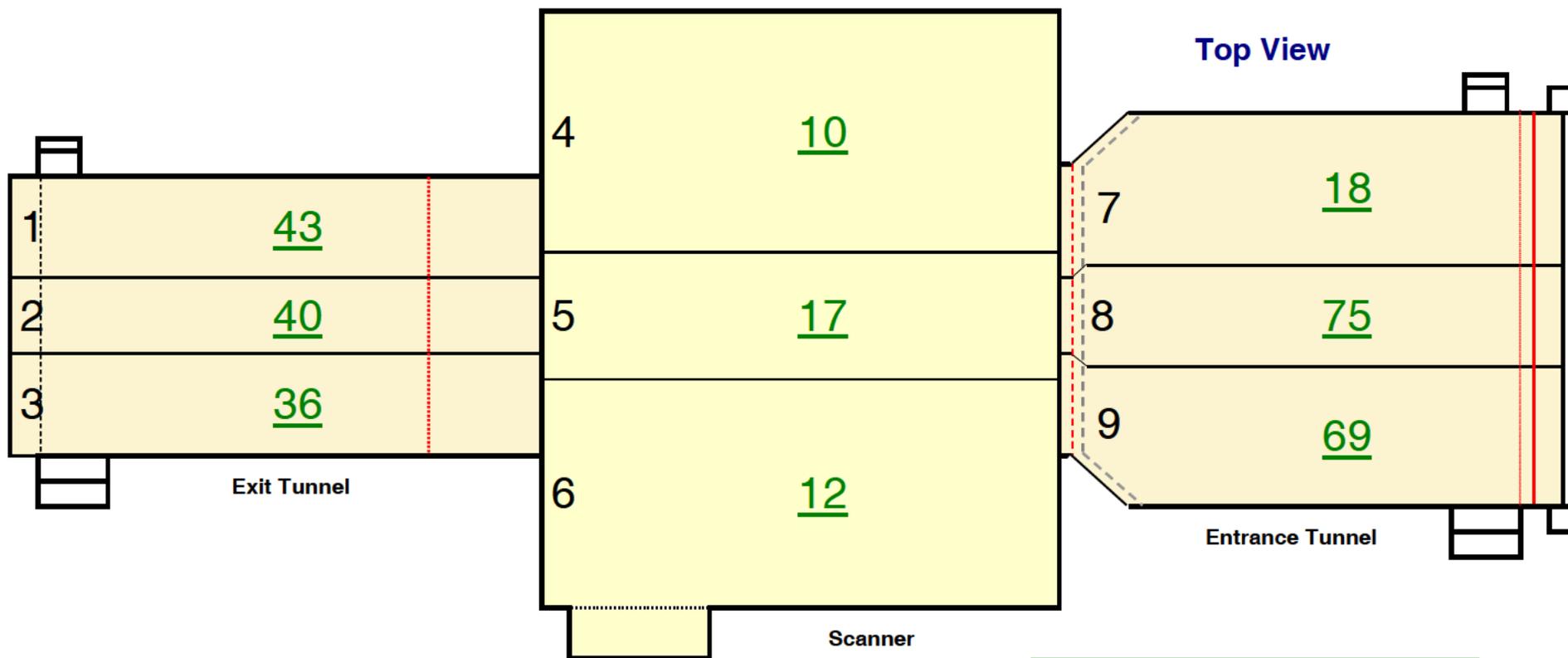
Airport: SJU	Scanner Location: Term.B	Case#: 357179
Personnel Performing Radiation Survey:		Date Survey Performed: 3/8/2011
Scanner Serial Number: 6191	Entrance Tunnel Serial Number: 2132A	Exit Tunnel Serial Number: 2132B
High Reading: 30	Average Reading: 12.46	Min. Reading: 5
High Reading: 133	Average Reading: 46.39	Min. Reading: 16
High Reading: 60	Average Reading: 30.42	Min. Reading: 7
Good	Good	Good
Radiation Meter: Type Meter: 451P	Meter Serial Number: 96	Calibration Due Date: October 27, 2011

NOTES

Complete Radiation Survey (CRS)	Record Voltage and Beam Current here:
Rename this Document before starting the Survey to: 357-CRS-8MAR2011-6191	Voltage: 164746 KV Beam Current: 9.8 mA
	Maximum Safe Readings: Scanner 350 Tunnels 350 Curtains 350

Step:	Procedure	Expected results
1.	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 μ R/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 144KV and 176KV . The current is between 8.8mA and 10.6mA 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.

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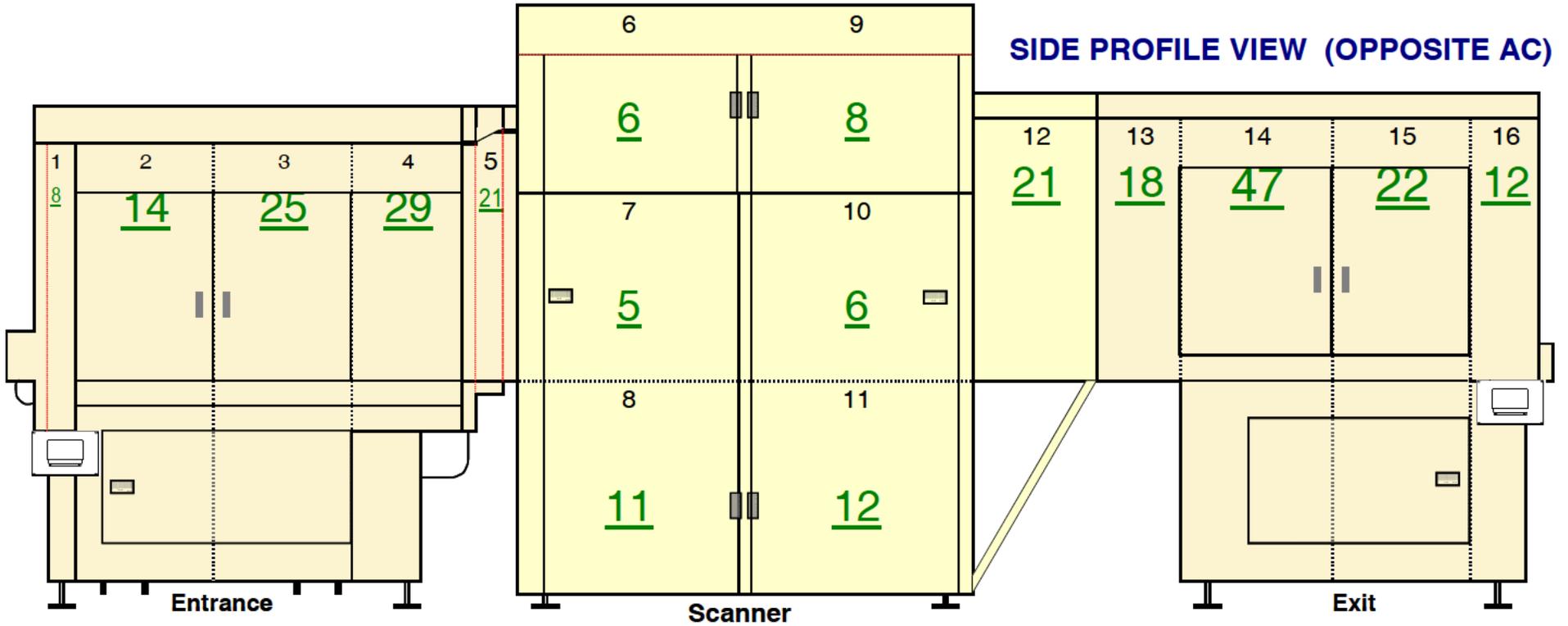


GOOD

Top View			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		μR/Hr	
1	Exit Conveyor Top Panel	43	
2	Exit Conveyor Top Panel	40	
3	Exit Conveyor Top Panel	36	
4	Scanner Conveyor Top Panel	10	
5	Scanner Conveyor Top Panel	17	
6	Scanner Conveyor Top Panel	12	
7	Entrance Conveyor Top Panel	18	
8	Entrance Conveyor Top Panel	75	
9	Entrance Conveyor Top Panel	69	

Highest Reading	75
Average Reading	36
Lowest Reading	10

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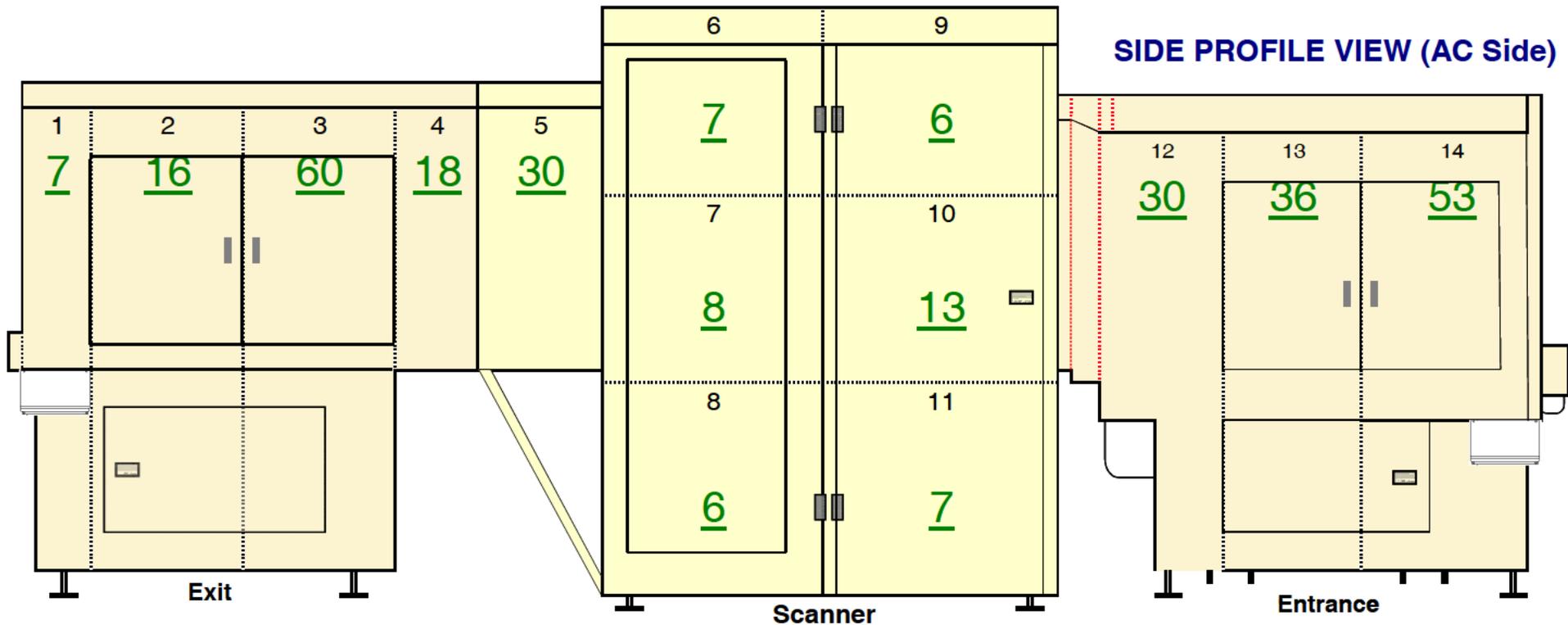


SYSTEM - SIDE PROFILE VIEW (Opposite AC Side)		
Scattered Radiation Measurement Points Worksheet		
Record highest reading per panel		$\mu\text{R}/\text{Hr}$
1	Entrance Conveyor Panel	8
2	Entrance Conveyor Panel	14
3	Entrance Conveyor Panel	25
4	Entrance Conveyor Panel	29
5	Entrance Conveyor / Scanner Panel	21
6	Upper Scanner Panel	6
7	Middle Scanner Panel	5
8	Lower Scanner Panel	11
9	Upper Scanner Panel	8
10	Middle Scanner Panel	6
11	Lower Scanner Panel	12
12	Exit Conveyor / Scanner Panel	21
13	Exit Conveyor Panel	18
14	Exit Conveyor Panel	47
15	Exit Conveyor Panel	22
16	Exit Conveyor Panel	12

GOOD

Highest Reading	47
Average Reading	17
Low Reading	5

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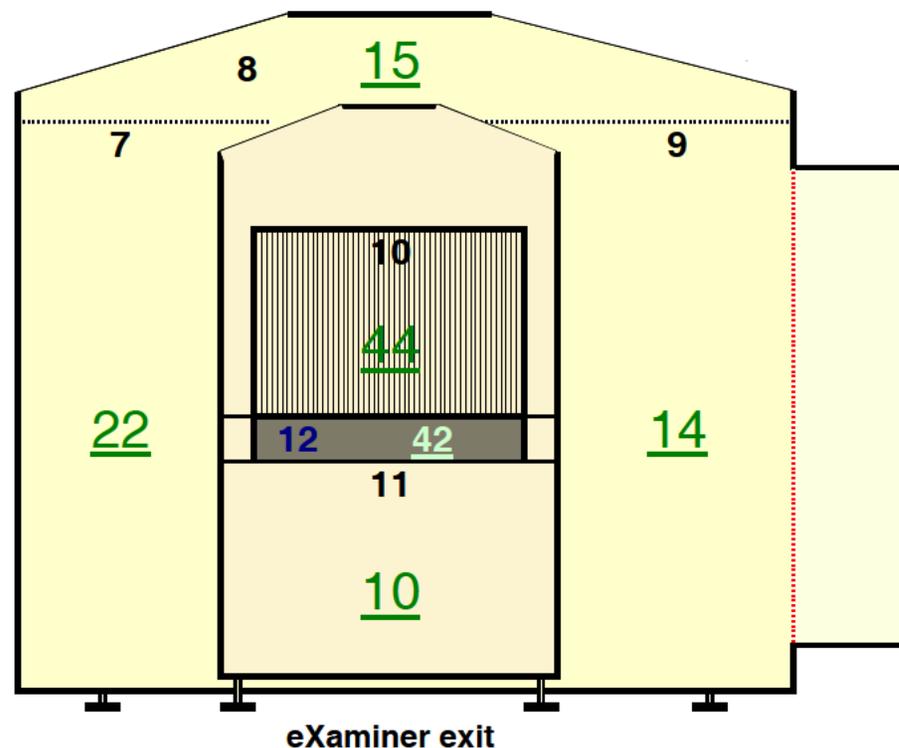
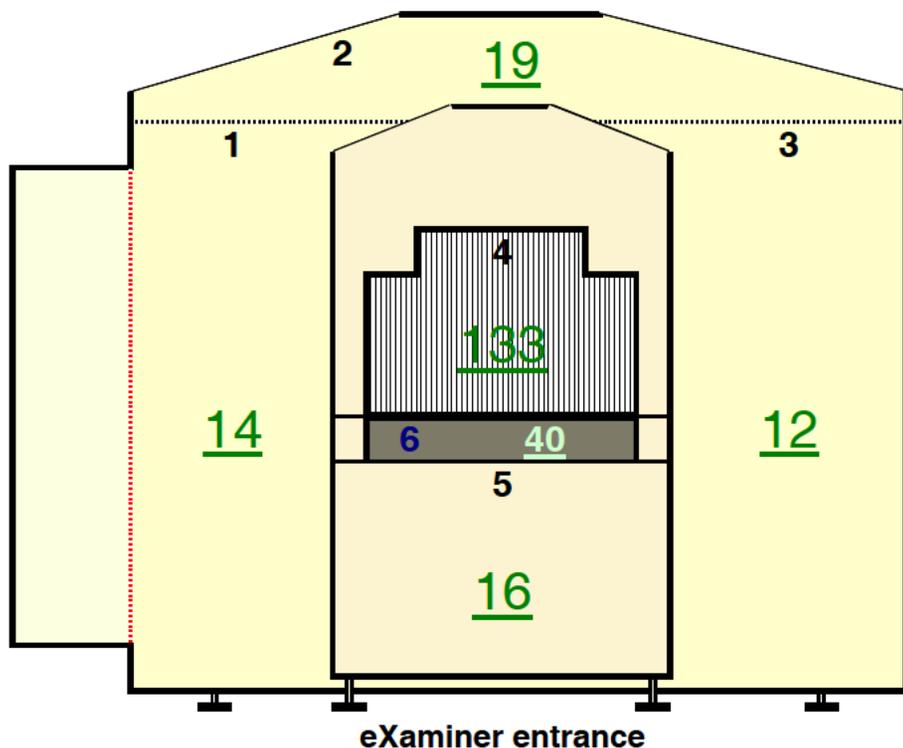
SYSTEM - SIDE PROFILE VIEW (AC Side)			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		µR/Hr	
1	Exit Conveyor Panel	7	
2	Exit Conveyor Panel	16	
3	Exit Conveyor Panel	60	
4	Exit Conveyor Panel	18	
5	Exit Conveyor / Scanner Panel	30	
6	Upper Scanner Pane	7	
7	Middle Scanner Panel	8	
8	Lower Scanner Panel	6	
9	Upper Scanner Panel	6	
10	Middle Scanner Panel	13	
11	Lower Scanner Panel	7	
12	Entrance Conveyor / Scanner Panel	30	
13	Entrance Conveyor Panel	36	
14	Entrance Conveyor Panel	53	

GOOD

Highest Reading	60
Average Reading	21
Low Reading	6

RADIATION SURVEY WORKSHEET

SYSTEM - FACES (End Views)



SYSTEM - FACES (End Views)			
Scattered Radiation Measurement Points Worksheet			
Record highest reading per panel		$\mu\text{R}/\text{Hr}$	No PROBLEM
1	Scanner Panel	14	
2	Scanner Top Panel	19	
3	Scanner Panel	12	
4	Belt Entrance	133	
5	Entrance Lower Panel	16	
6	Belt Lower Facia Cover Entrance	40	
7	Scanner Panel	22	
8	Scanner Top Panel	15	
9	Scanner Panel	14	
10	Belt Exit	44	
11	Exit Lower Panel	10	
12	Belt Lower Facia Cover Exit	42	

GOOD

Highest Reading	133
Average Reading	32
Low Reading	10