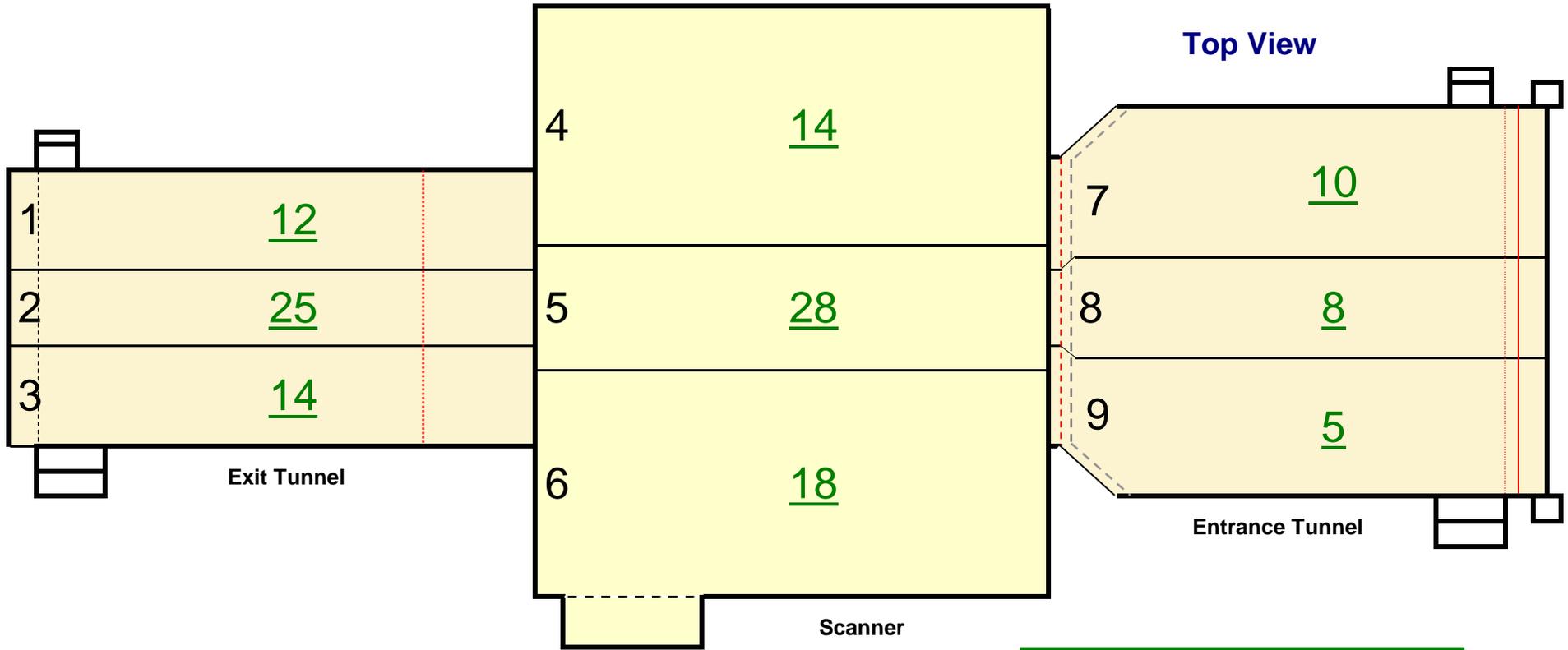


RADIATION SURVEY WORKSHEET

eXaminer Radiation Survey Information

Airport: Houston International Airport	Scanner Location: Terminal E	Case#: IAH-C355760
Personnel Performing Radiation Survey: XXXXXXXXXX		Date Survey Performed: 3/13/2011
Scanner Serial Number: 6796	Entrance Tunnel Serial Number: 1155	Exit Tunnel Serial Number: 1117b
High Reading: 47	Average Reading: 20.98	Min. Reading: 7
High Reading: 62	Average Reading: 17.39	Min. Reading: 1
High Reading: 34	Average Reading: 18.48	Min. Reading: 2
Good	Good	Good
Radiation Meter: Type Meter: 451P	Meter Serial Number: 6334	Calibration Due Date: September 15, 2011
<div style="display: flex; justify-content: space-between;"> N O T E S </div>		
Complete Radiation Survey (CRS)	Record Voltage and Beam Current here:	
Rename this Document before starting the Survey to:	Voltage: 165 KV	Beam Current: 9.8 mA
IAH-CRS-13MAR2011-6796	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 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 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.

RADIATION SURVEY WORKSHEET

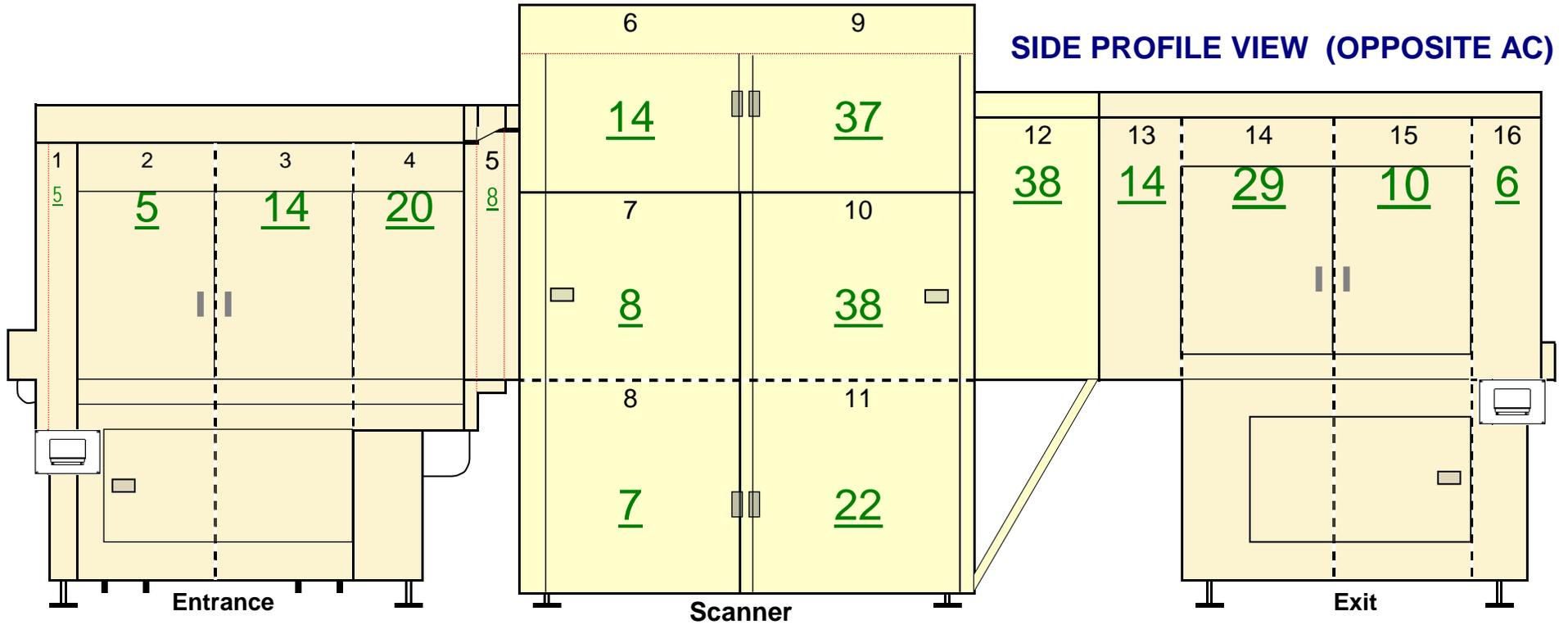


GOOD

Top View			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		μR/Hr	
1	Exit Conveyor Top Panel	12	
2	Exit Conveyor Top Panel	25	
3	Exit Conveyor Top Panel	14	
4	Scanner Conveyor Top Panel	14	
5	Scanner Conveyor Top Panel	28	
6	Scanner Conveyor Top Panel	18	
7	Entrance Conveyor Top Panel	10	
8	Entrance Conveyor Top Panel	8	
9	Entrance Conveyor Top Panel	5	

Highest Reading	28
Average Reading	15
Lowest Reading	5

RADIATION SURVEY WORKSHEET

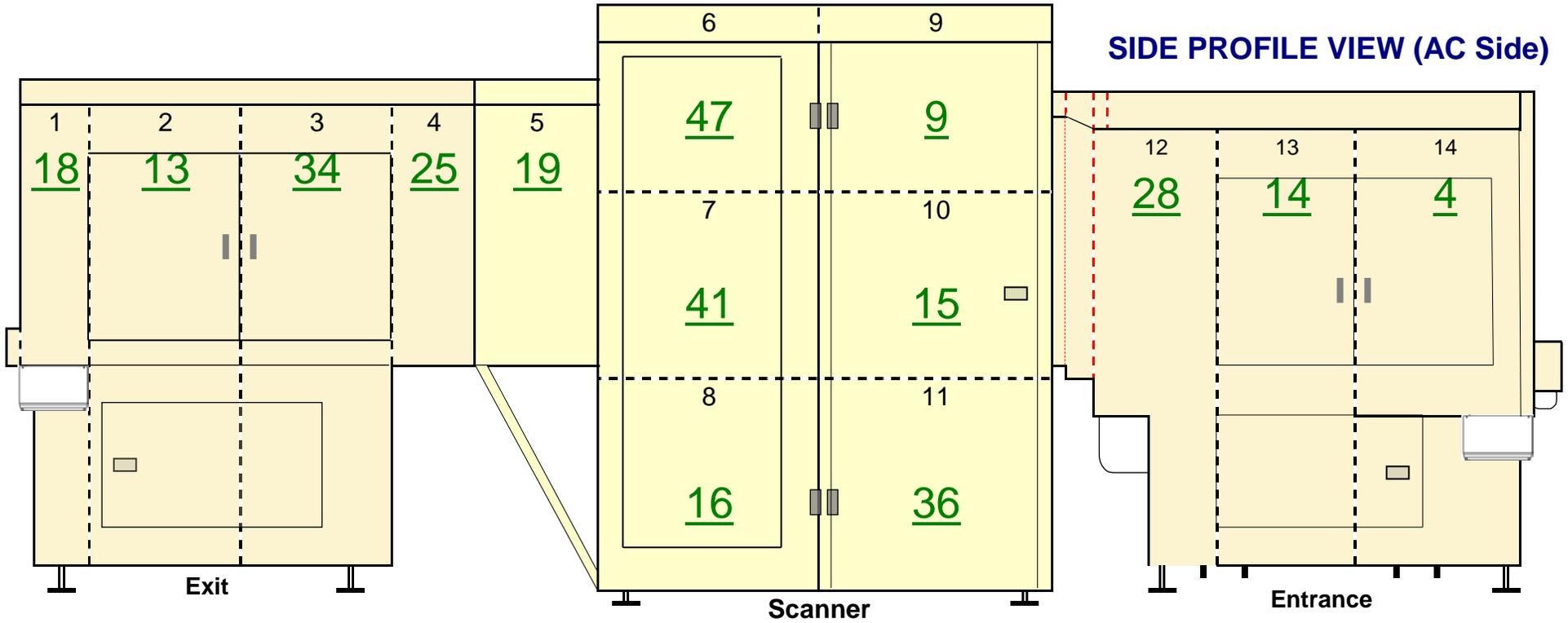


SYSTEM - SIDE PROFILE VIEW (Opposite AC Side)		
Scattered Radiation Measurement Points Worksheet		
	Record highest reading per panel	μR/Hr
1	Entrance Conveyor Panel	5
2	Entrance Conveyor Panel	5
3	Entrance Conveyor Panel	14
4	Entrance Conveyor Panel	20
5	Entrance Conveyor / Scanner Panel	8
6	Upper Scanner Panel	14
7	Middle Scanner Panel	8
8	Lower Scanner Panel	7
9	Upper Scanner Panel	37
10	Middle Scanner Panel	38
11	Lower Scanner Panel	22
12	Exit Conveyor / Scanner Panel	38
13	Exit Conveyor Panel	14
14	Exit Conveyor Panel	29
15	Exit Conveyor Panel	10
16	Exit Conveyor Panel	6

GOOD

Highest Reading	38
Average Reading	17
Low Reading	5

RADIATION SURVEY WORKSHEET



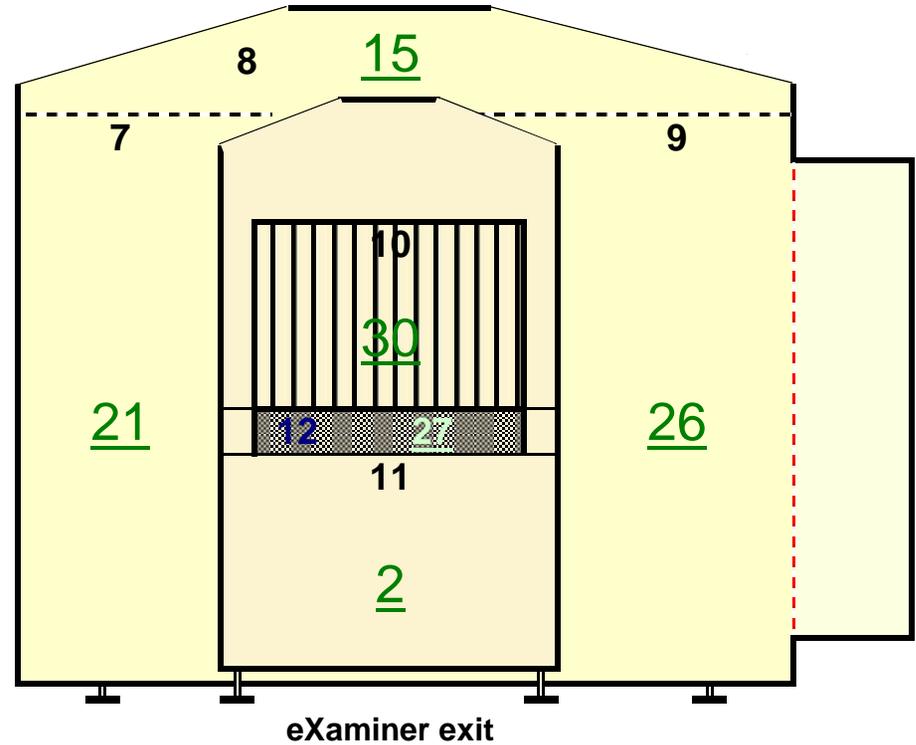
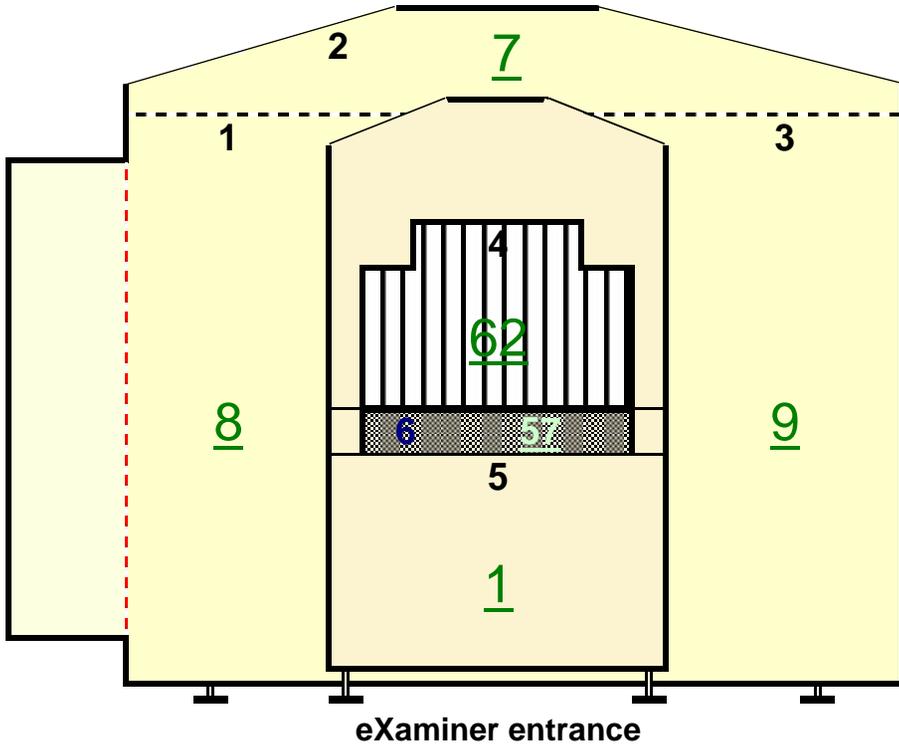
SYSTEM - SIDE PROFILE VIEW (AC Side)			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		µR/Hr	
1	Exit Conveyor Panel	18	
2	Exit Conveyor Panel	13	
3	Exit Conveyor Panel	34	
4	Exit Conveyor Panel	25	
5	Exit Conveyor / Scanner Panel	19	
6	Upper Scanner Pane	47	
7	Middle Scanner Panel	41	
8	Lower Scanner Panel	16	
9	Upper Scanner Panel	9	
10	Middle Scanner Panel	15	
11	Lower Scanner Panel	36	
12	Entrance Conveyor / Scanner Panel	28	
13	Entrance Conveyor Panel	14	
14	Entrance Conveyor Panel	4	

GOOD

Highest Reading	47
Average Reading	23
Low Reading	4

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	8	
2	Scanner Top Panel	7	
3	Scanner Panel	9	
4	Belt Entrance	62	
5	Entrance Lower Panel	1	
6	Belt Lower Fascia Cover Entrance	57	
7	Scanner Panel	21	
8	Scanner Top Panel	15	
9	Scanner Panel	26	
10	Belt Exit	30	
11	Exit Lower Panel	2	
12	Belt Lower Fascia Cover Exit	27	

GOOD

Highest Reading	62
Average Reading	22
Low Reading	1