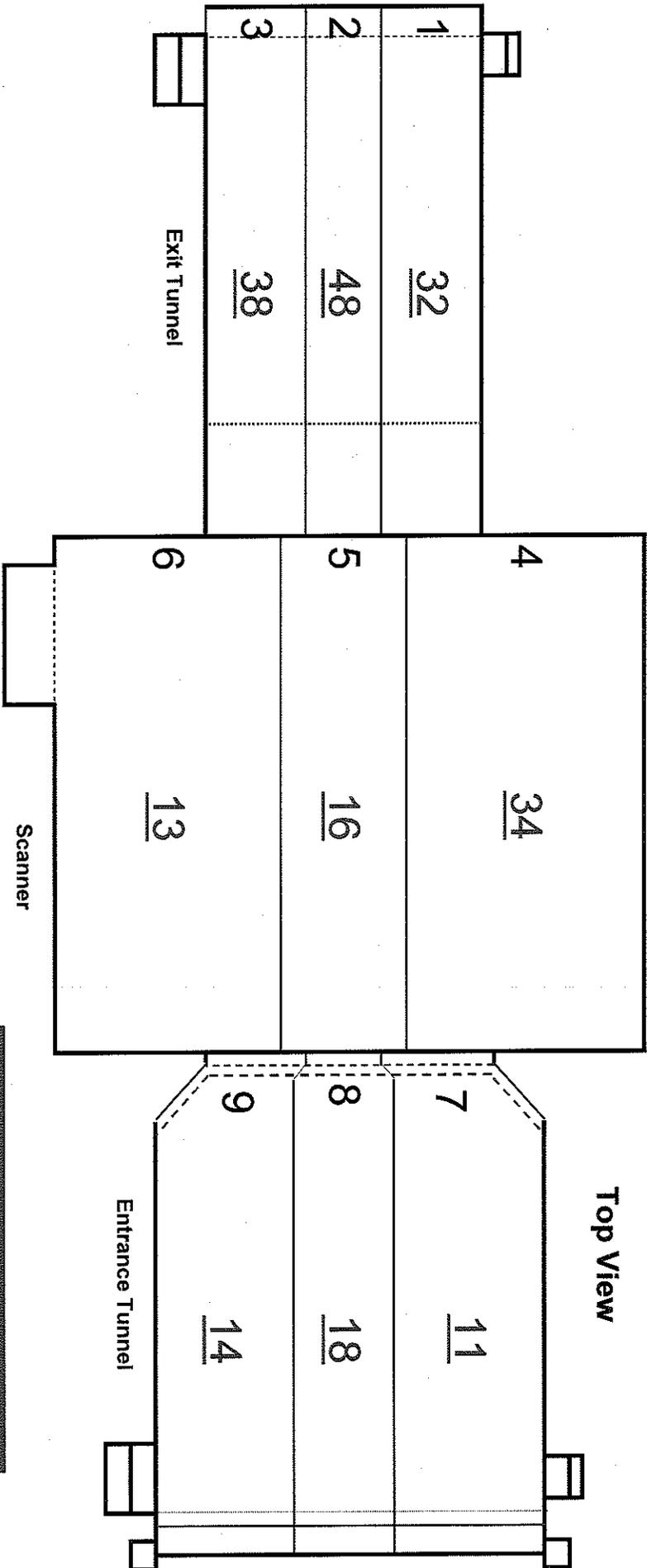


RADIATION SURVEY WORKSHEET

eXaminer Radiation Survey Information

Airport: TF Green Airport	Scanner Location: Baggage Handling Room	Case#: PVD-C324116	
Personnel Performing Radiation Survey: [REDACTED]		Date Survey Performed: 9/29/2010	
Scanner Serial Number: 6758	Entrance Tunnel Serial Number: 1104	Exit Tunnel Serial Number: 1090-1B	
High Reading: 76	Average Reading: 23.82	Min. Reading: 5	High Reading: 88
			Average Reading: 26.07
			Min. Reading: 8
			High Reading: 58
			Average Reading: 23.77
			Min. Reading: 3
Good		Good	
Radiation Meter: 451P	Type Meter: 451P	Meter Serial Number: 6230	Calibration Due Date: December 22, 2010
Complete Radiation Survey (CRS)		Record Voltage and Bean Current here:	
Rename this Document before starting the Survey to:		Voltage: 165	KV Beam Current: 10.0 mA
PVD-CRS-29SEPP2010-6758		Maximum Safe Readings	Scanner 350 Tunnels 350 Curtains 350
Step	Procedure	Expected results	
1.	Set Up: Obtain Invision 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 uR/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 stickers and place on the eXaminer in accordance with Examiner Technical Bulletin ex253.	Readings shall not exceed 350 uR/hr in any box.	

RADIATION SURVEY WORKSHEET

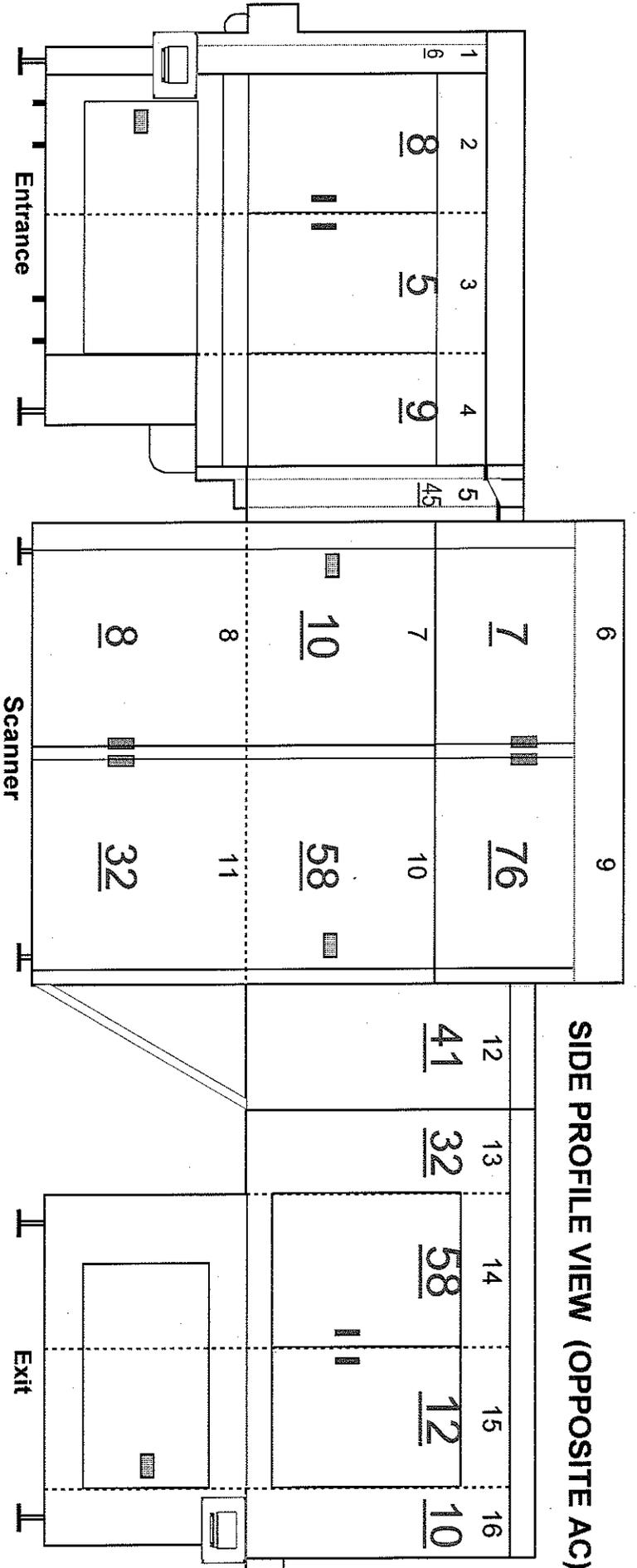


Top View		
Scattered Radiation Measurement Points Worksheet		
Record highest reading per panel	µR/Hr	No PROBLEM
1 Exit Conveyor Top Panel	32	
2 Exit Conveyor Top Panel	48	
3 Exit Conveyor Top Panel	38	
4 Scanner Conveyor Top Panel	34	
5 Scanner Conveyor Top Panel	16	
6 Scanner Conveyor Top Panel	13	
7 Entrance Conveyor Top Panel	11	
8 Entrance Conveyor Top Panel	18	
9 Entrance Conveyor Top Panel	14	

GOOD

Highest Reading	48
Average Reading	25
Lowest Reading	11

RADIATION SURVEY WORKSHEET



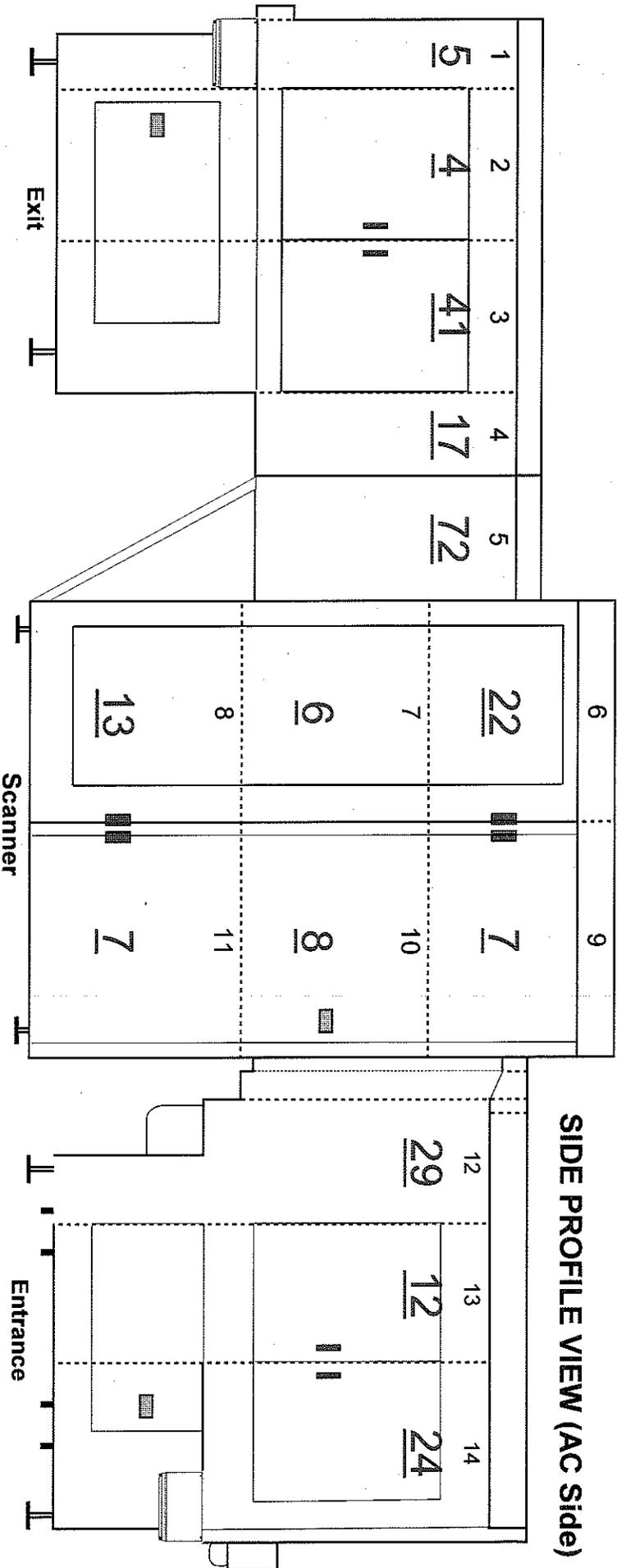
SIDE PROFILE VIEW (OPPOSITE AC)

SYSTEM - SIDE PROFILE VIEW (Opposite AC Side)		
Scattered Radiation Measurement Points Worksheet		
Record highest reading per panel	$\mu\text{R}/\text{hr}$	No PROBLEM
1 Entrance Conveyor Panel	6	
2 Entrance Conveyor Panel	8	
3 Entrance Conveyor Panel	5	
4 Entrance Conveyor Panel	9	
5 Entrance Conveyor / Scanner Panel	45	
6 Upper Scanner Panel	7	
7 Middle Scanner Panel	10	
8 Lower Scanner Panel	8	
9 Upper Scanner Panel	76	
10 Middle Scanner Panel	58	
11 Lower Scanner Panel	32	
12 Exit Conveyor / Scanner Panel	41	
13 Exit Conveyor Panel	32	
14 Exit Conveyor Panel	58	
15 Exit Conveyor Panel	12	
16 Exit Conveyor Panel	10	

GOOD

Highest Reading	76
Average Reading	26
Low Reading	5

RADIATION SURVEY WORKSHEET



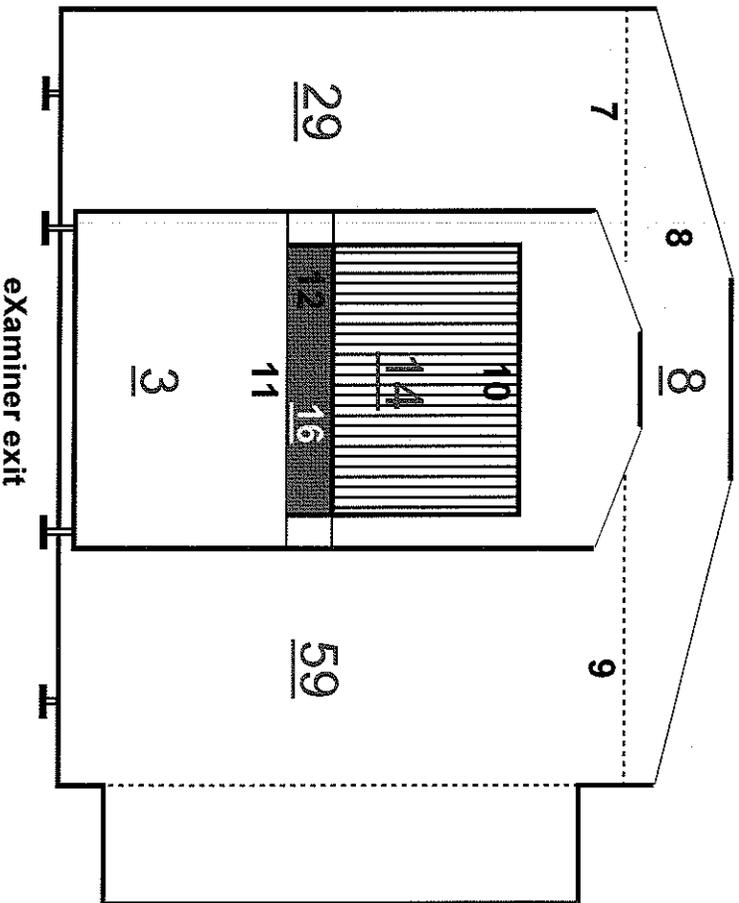
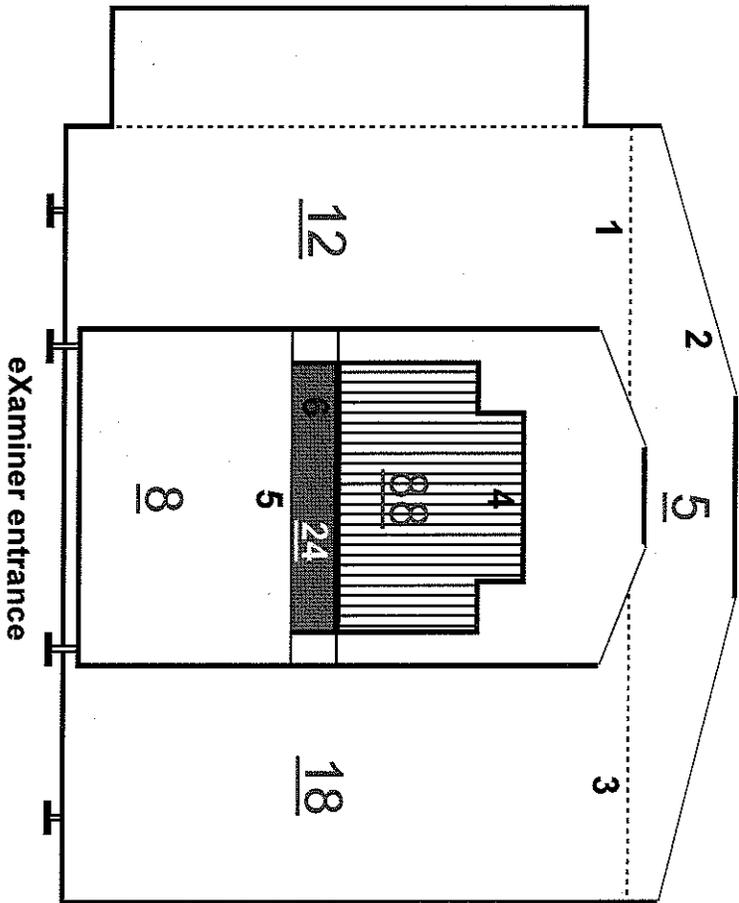
SYSTEM - SIDE PROFILE VIEW (AC Side)		
Scattered Radiation Measurement Points Worksheet		
Record highest reading per panel	$\mu\text{R}/\text{Hr}$	No PROBLEM
1 Exit Conveyor Panel	5	
2 Exit Conveyor Panel	4	
3 Exit Conveyor Panel	41	
4 Exit Conveyor Panel	17	
5 Exit Conveyor / Scanner Panel	72	
6 Upper Scanner Pane	22	
7 Middle Scanner Panel	6	
8 Lower Scanner Panel	13	
9 Upper Scanner Panel	7	
10 Middle Scanner Panel	8	
11 Lower Scanner Panel	7	
12 Entrance Conveyor / Scanner Panel	29	
13 Entrance Conveyor Panel	12	
14 Entrance Conveyor Panel	24	

GOOD

Highest Reading	72
Average Reading	19
Low Reading	4

RADIATION SURVEY WORKSHEET

SYSTEM - FACES (End Views)



SYSTEM - FACES (End Views)		
Scattered Radiation Measurement Points Worksheet		
Record highest reading per panel	µR/Hr	No PROBLEM
1 Scanner Panel	12	
2 Scanner Top Panel	5	
3 Scanner Panel	18	
4 Belt Entrance	88	
5 Entrance Lower Panel	8	
6 Belt Lower Facia Cover Entrance	24	
7 Scanner Panel	29	
8 Scanner Top Panel	8	
9 Scanner Panel	59	
10 Belt Exit	14	
11 Exit Lower Panel	3	
12 Belt Lower Facia Cover Exit	16	

GOOD

Highest Reading	88
Average Reading	24
Low Reading	3