

RADIATION SURVEY WORKSHEET

eXaminer Radiation Survey Information

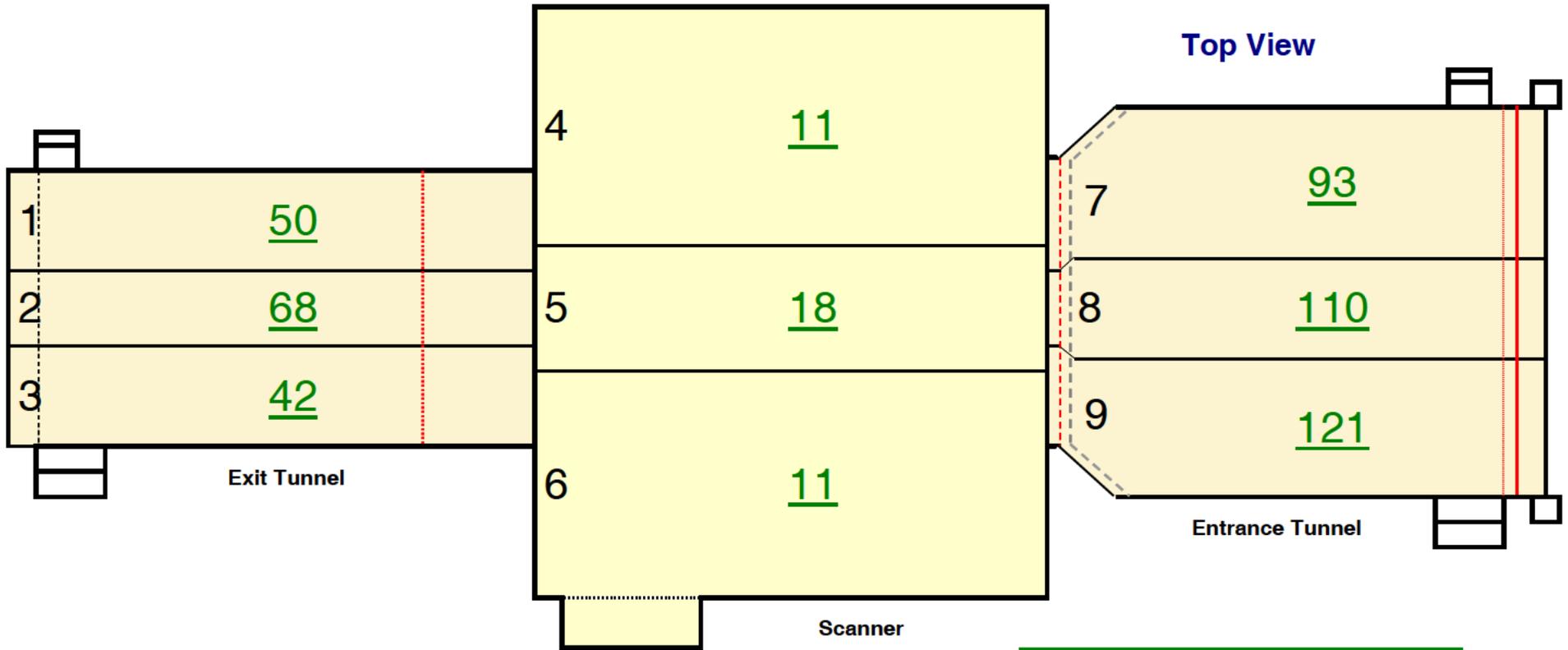
Airport: SJU	Scanner Location: Term.B	Case#: 358471
Personnel Performing Radiation Survey: _____		Date Survey Performed: 3/15/2011
Scanner Serial Number: 6198	Entrance Tunnel Serial Number: 2142A	Exit Tunnel Serial Number: 2142B
High Reading: 55	Average Reading: 17.22	Min. Reading: 4
High Reading: 285	Average Reading: 93.61	Min. Reading: 10
High Reading: 68	Average Reading: 31.96	Min. Reading: 3
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 Bean Current here:
Rename this Document before starting the Survey to:	Voltage: 164648 KV Beam Current: 9.8 mA
358-CRS-15MAR2011-6198	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 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 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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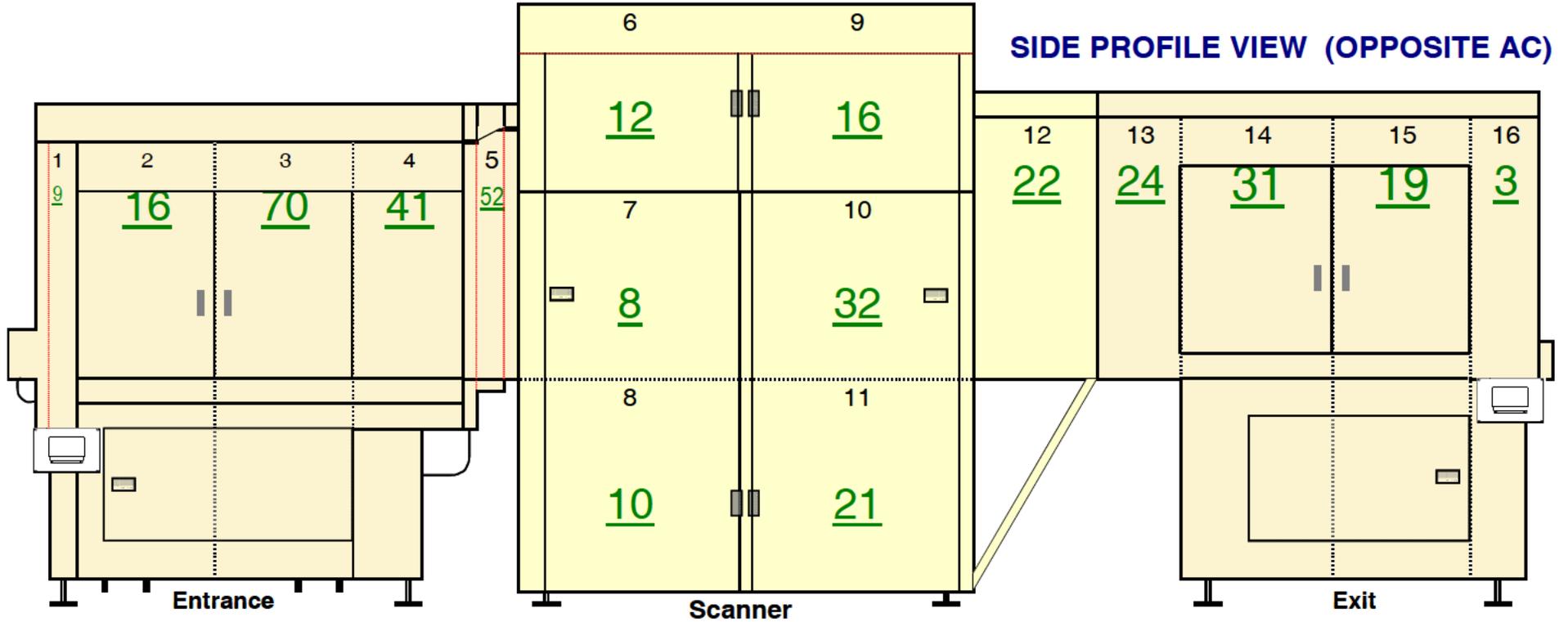


GOOD

Top View			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		μR/Hr	
1	Exit Conveyor Top Panel	50	
2	Exit Conveyor Top Panel	68	
3	Exit Conveyor Top Panel	42	
4	Scanner Conveyor Top Panel	11	
5	Scanner Conveyor Top Panel	18	
6	Scanner Conveyor Top Panel	11	
7	Entrance Conveyor Top Panel	93	
8	Entrance Conveyor Top Panel	110	
9	Entrance Conveyor Top Panel	121	

Highest Reading	121
Average Reading	58
Lowest Reading	11

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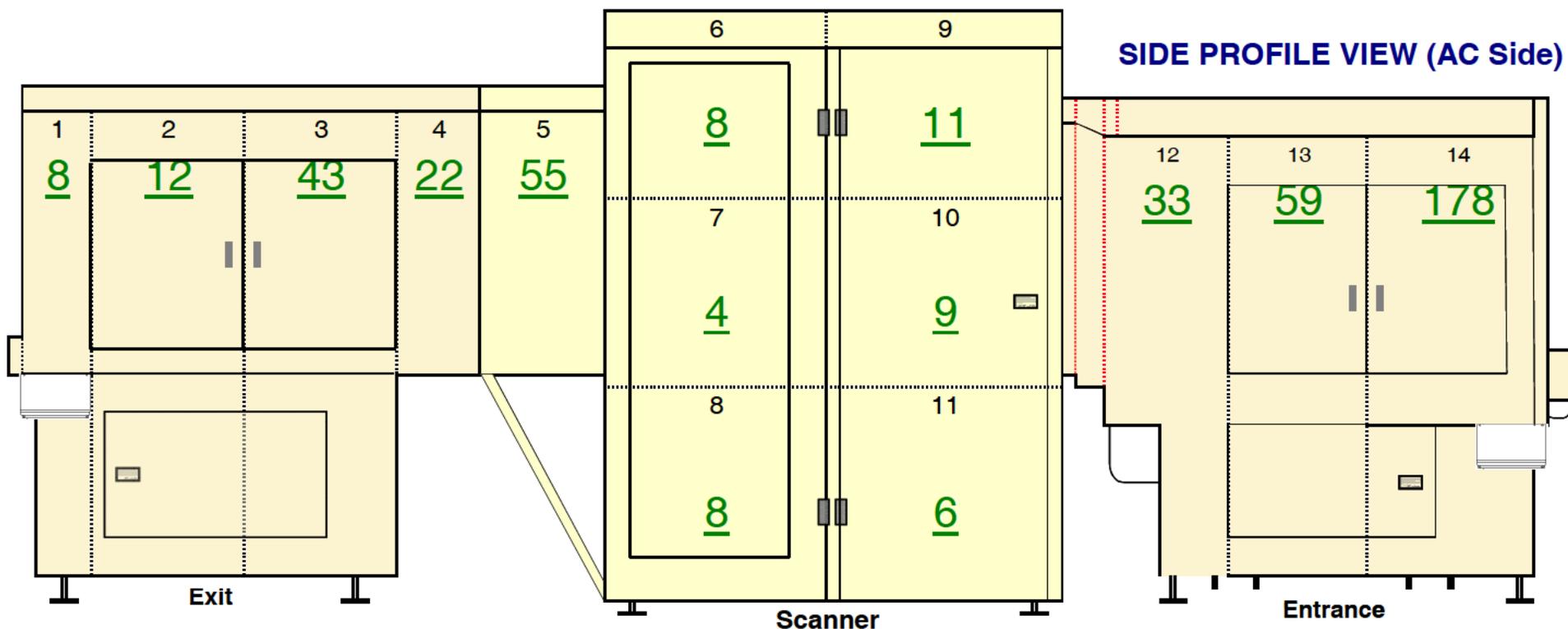


SYSTEM - SIDE PROFILE VIEW (Opposite AC Side)		
Scattered Radiation Measurement Points Worksheet		
Record highest reading per panel		μR/Hr
1	Entrance Conveyor Panel	9
2	Entrance Conveyor Panel	16
3	Entrance Conveyor Panel	70
4	Entrance Conveyor Panel	41
5	Entrance Conveyor / Scanner Panel	52
6	Upper Scanner Panel	12
7	Middle Scanner Panel	8
8	Lower Scanner Panel	10
9	Upper Scanner Panel	16
10	Middle Scanner Panel	32
11	Lower Scanner Panel	21
12	Exit Conveyor / Scanner Panel	22
13	Exit Conveyor Panel	24
14	Exit Conveyor Panel	31
15	Exit Conveyor Panel	19
16	Exit Conveyor Panel	3

GOOD

Highest Reading	70
Average Reading	24
Low Reading	3

RADIATION SURVEY WORKSHEET



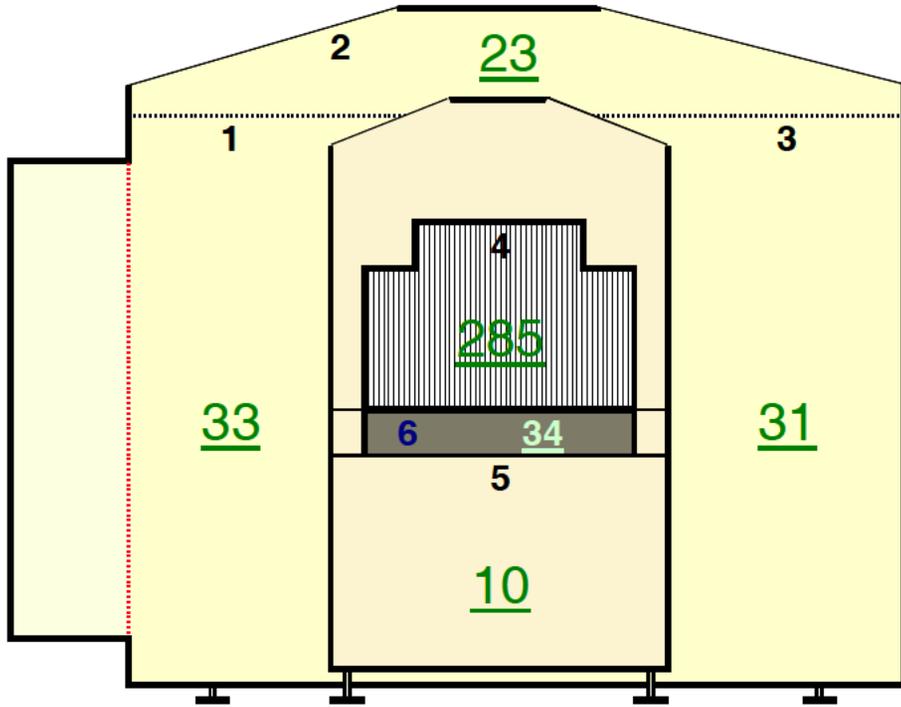
SYSTEM - SIDE PROFILE VIEW (AC Side)			
Scattered Radiation Measurement Points Worksheet			No PROBLEM
Record highest reading per panel		µR/Hr	
1	Exit Conveyor Panel	8	
2	Exit Conveyor Panel	12	
3	Exit Conveyor Panel	43	
4	Exit Conveyor Panel	22	
5	Exit Conveyor / Scanner Panel	55	
6	Upper Scanner Pane	8	
7	Middle Scanner Panel	4	
8	Lower Scanner Panel	8	
9	Upper Scanner Panel	11	
10	Middle Scanner Panel	9	
11	Lower Scanner Panel	6	
12	Entrance Conveyor / Scanner Panel	33	
13	Entrance Conveyor Panel	59	
14	Entrance Conveyor Panel	178	

GOOD

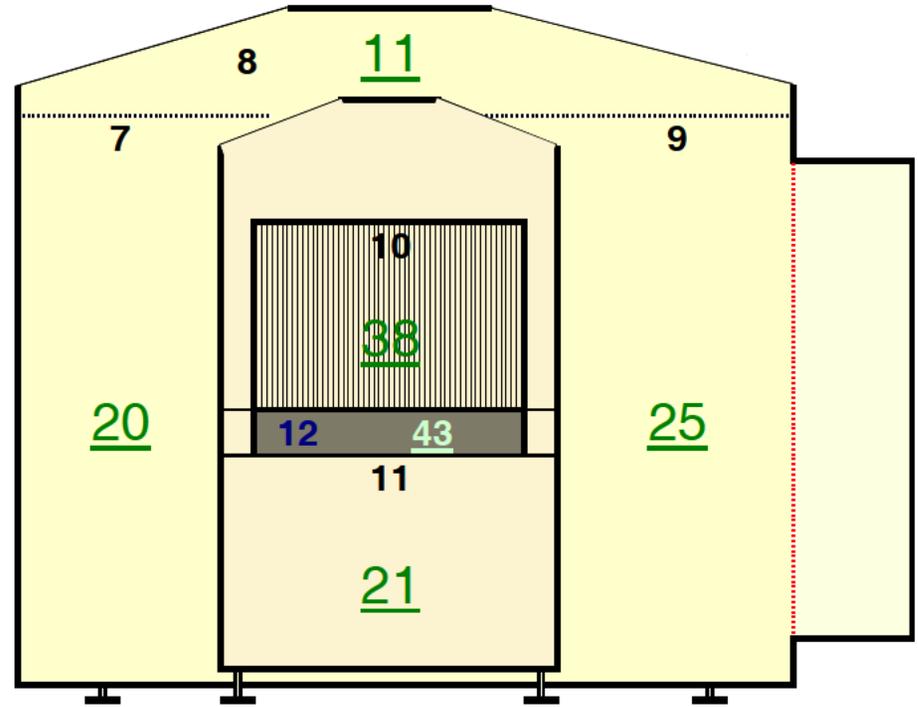
Highest Reading	178
Average Reading	33
Low Reading	4

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		µR/Hr	
1	Scanner Panel	33	
2	Scanner Top Panel	23	
3	Scanner Panel	31	
4	Belt Entrance	285	
5	Entrance Lower Panel	10	
6	Belt Lower Facia Cover Entrance	34	
7	Scanner Panel	20	
8	Scanner Top Panel	11	
9	Scanner Panel	25	
10	Belt Exit	38	
11	Exit Lower Panel	21	
12	Belt Lower Facia Cover Exit	43	

GOOD

Highest Reading	285
Average Reading	48
Low Reading	10