



Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Eaton Lighting Division  
(formerly Cooper Lighting)

Brand: FAIL-SAFE

Report Number: P212900

Luminaire Tested: **FPS-4-LD4-1LO-50-CLR**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Eaton or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P212900  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35664)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: EATON (FORMERLY COOPER LIGHTING)  
Product Line: FAIL-SAFE  
Catalog Number: FPS-4-LD4-1LO-50-CLR  
Description: FPS 4' LED FIXTURE WITH CLEAR LENS  
Light Source: (84) EATON 5000K CCT, 85 CRI LEDS  
Ballast/Driver: -

Luminaire Equipment:	<u>Sample No.</u>	<u>Condition</u>	<u>Description</u>
	a	good	reflector
	b	good	lens
	c	good	housing
	d	good	cord

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3101.1 lumens  
Efficiency: N/A  
Efficacy: 131.6 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 4.1' x H: 0.33')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B1 - U3 - G1

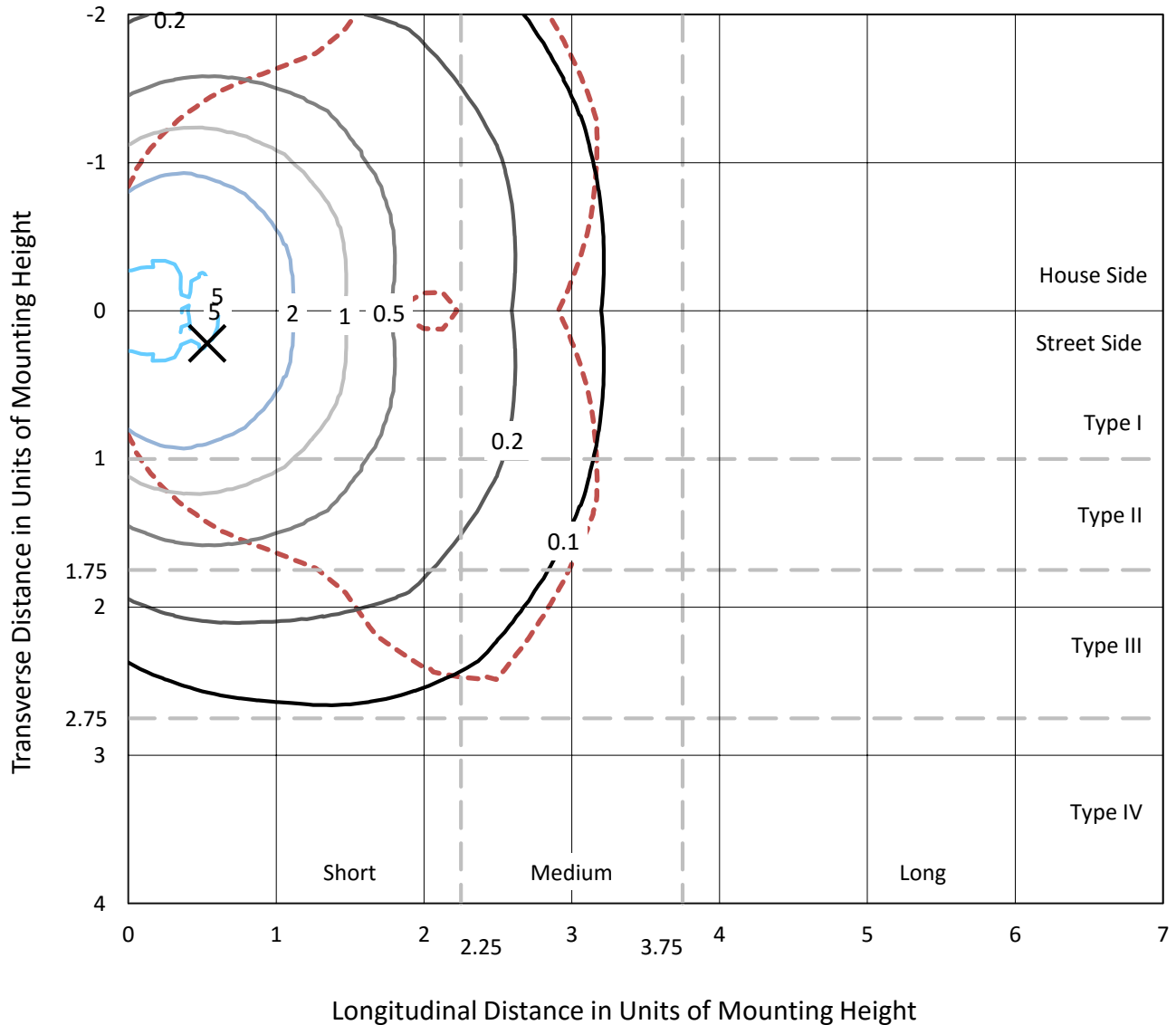
Input Watts (W): 23.57  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

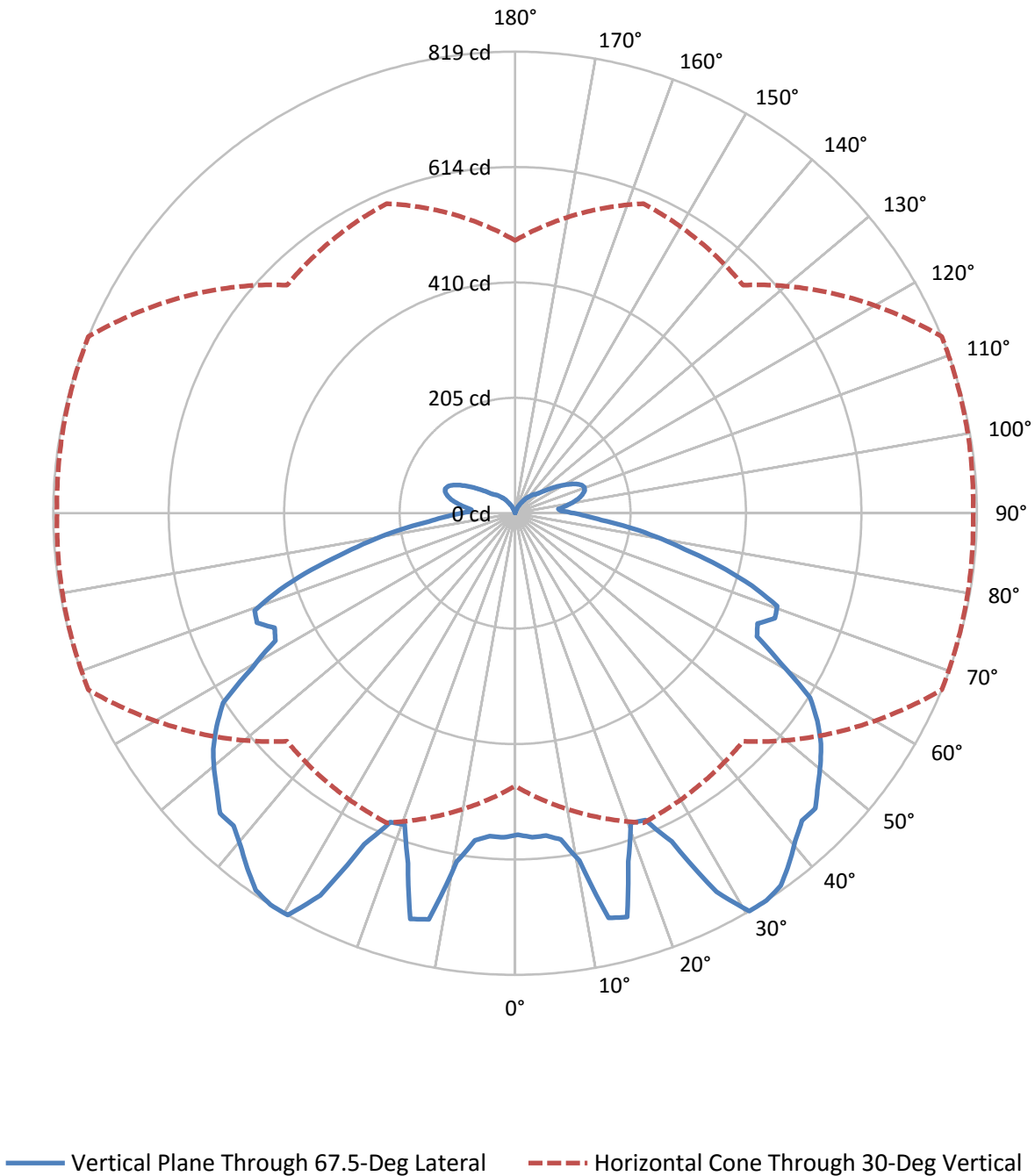


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc  
 Type V - Short - Semi-Cutoff



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### Luminous Intensity Polar Plot





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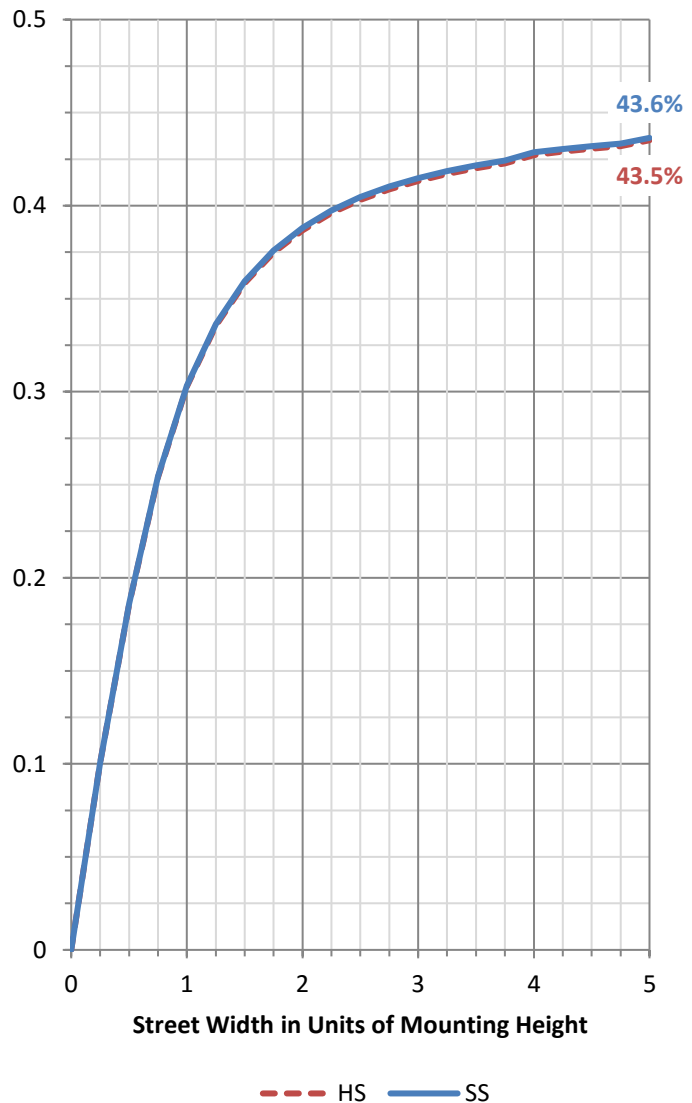
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1383.5	167.0	1550.6
	% Fixture	44.6	5.4	50.0
<b>Street Side</b>	Lumens	1383.5	167.0	1550.6
	% Fixture	44.6	5.4	50.0
<b>Total</b>	Lumens	2767.1	334.1	3101.1
	% Fixture	89.2	10.8	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.5	1.8
10°-20°	179.6	5.8
20°-30°	288.7	9.3
30°-40°	421.7	13.6
40°-50°	490.1	15.8
50°-60°	466.5	15.0
60°-70°	395.3	12.7
70°-80°	322.1	10.4
80°-90°	147.4	4.8
90°-100°	70.7	2.3
100°-110°	93.5	3.0
110°-120°	82.8	2.7
120°-130°	46.6	1.5
130°-140°	23.7	0.8
140°-150°	11.4	0.4
150°-160°	4.2	0.1
160°-170°	1.0	0.0
170°-180°	0.3	0.0
0°-90°	2767.1	89.2
0°-180°	3101.1	100.0





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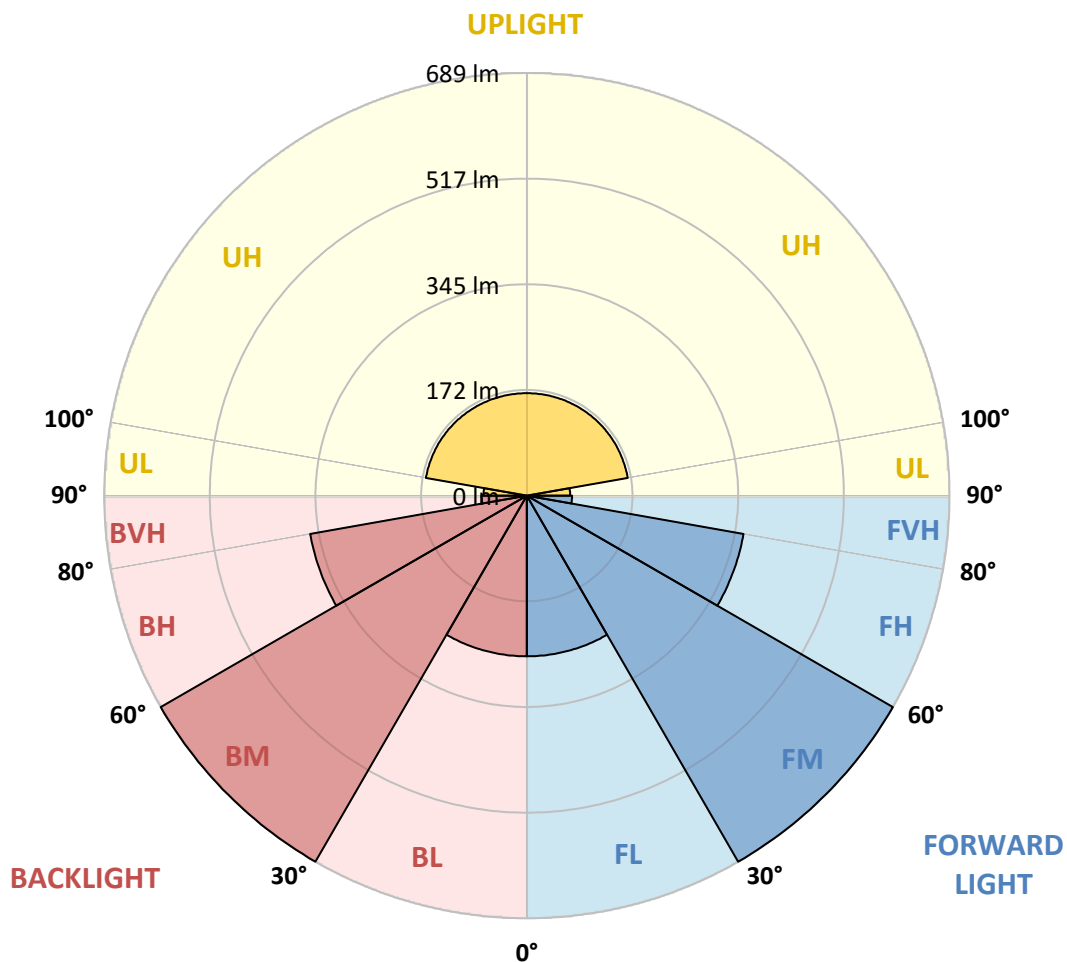
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	261.9	8.4			
FM (30°-60°)	689.2	22.2			
FH (60°-80°)	358.7	11.6			G0/660
FVH (80°-90°)	73.7	2.4			G1/100
BL (0°-30°)	261.9	8.4	B1/500		
BM (30°-60°)	689.2	22.2	B1/1000		
BH (60°-80°)	358.7	11.6	B1/500		G0/660
BVH (80°-90°)	73.7	2.4			G1/100
UL (90°-100°)	70.7	2.3		U3/500	
UH (100°-180°)	167.0	5.4		U3/500	

**BUG Rating: B1-U3-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	570.5	570.5	570.5	570.5	570.5
2.5°	575.5	574.6	573.8	575.5	573.8
5°	574.6	578.8	575.5	574.6	571.3
7.5°	569.7	578.0	573.8	584.6	586.3
10°	569.7	577.1	584.6	627.0	654.5
12.5°	564.7	570.5	610.4	736.8	750.1
15°	556.3	565.5	683.6	743.5	691.1
17.5°	550.5	566.3	741.8	649.5	591.3
20°	543.0	567.2	728.5	586.3	579.6
22.5°	530.6	568.8	664.5	591.3	622.0
25°	515.6	571.3	596.3	645.3	737.6
27.5°	500.6	580.5	572.1	760.9	813.3
30°	484.0	594.6	572.1	819.1	812.5
32.5°	465.7	614.6	592.1	819.1	809.2
35°	449.9	628.7	635.4	811.7	786.7
37.5°	428.3	628.7	690.2	789.2	770.1
40°	406.7	625.4	725.2	765.1	777.6
42.5°	385.0	602.1	715.2	746.0	754.3
45°	365.9	568.0	696.9	746.8	726.0
47.5°	342.6	534.7	674.4	722.7	669.4
50°	323.5	503.1	638.7	701.9	647.0
52.5°	299.4	473.2	612.9	679.4	607.9
55°	276.1	441.6	586.3	650.3	576.3
57.5°	252.8	413.3	558.8	617.1	503.1
60°	231.2	381.7	521.4	542.2	420.0
62.5°	210.4	348.4	493.1	481.5	393.4
65°	188.8	319.3	464.9	472.4	395.8
67.5°	168.0	293.6	461.5	497.3	430.8
70°	148.0	280.3	472.4	493.1	426.6
72.5°	127.2	273.6	445.7	439.1	379.2
75°	106.4	261.1	386.7	374.2	322.7
77.5°	87.3	227.9	326.8	307.7	268.6
80°	66.5	187.1	268.6	253.6	220.4
82.5°	49.9	147.2	220.4	202.1	178.0
85°	31.6	111.4	164.7	153.8	136.4
87.5°	19.1	78.2	126.4	123.9	109.8
90°	10.0	52.4	93.1	99.8	88.2
92.5°	11.6	42.4	69.9	81.5	74.0
95°	13.3	44.1	70.7	77.3	70.7
97.5°	15.0	48.2	80.7	89.8	80.7
100°	15.0	54.1	94.0	103.1	91.5
102.5°	15.0	59.0	104.8	115.6	101.5
105°	15.0	62.4	113.1	123.9	109.8
107.5°	14.1	63.2	118.1	129.7	114.8
110°	13.3	61.5	118.1	131.4	116.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	12.5	58.2	113.9	128.1	113.1
115°	11.6	53.2	106.4	120.6	105.6
117.5°	10.8	46.6	96.5	109.8	96.5
120°	10.0	39.9	84.8	97.3	86.5
122.5°	9.1	34.1	74.0	85.7	76.5
125°	8.3	28.3	64.0	73.2	66.5
127.5°	7.5	23.3	55.7	63.2	59.0
130°	6.7	19.1	49.1	54.1	51.6
132.5°	6.7	15.8	44.1	49.1	46.6
135°	5.8	12.5	37.4	46.6	44.9
137.5°	5.8	10.8	30.8	41.6	42.4
140°	5.8	8.3	25.8	36.6	38.3
142.5°	5.0	6.7	21.6	34.1	34.9
145°	5.0	5.8	18.3	29.1	30.8
147.5°	5.0	5.8	15.0	24.1	26.6
150°	5.0	5.0	12.5	20.0	22.5
152.5°	5.0	5.0	10.0	16.6	19.1
155°	5.0	5.0	7.5	13.3	15.8
157.5°	4.2	5.0	5.0	9.1	11.6
160°	4.2	5.0	4.2	5.8	8.3
162.5°	4.2	4.2	3.3	2.5	3.3
165°	4.2	4.2	3.3	1.7	0.8
167.5°	4.2	4.2	3.3	1.7	0.0
170°	4.2	4.2	3.3	1.7	0.0
172.5°	4.2	4.2	3.3	1.7	0.0
175°	4.2	4.2	3.3	0.8	0.0
177.5°	4.2	4.2	3.3	0.8	0.0
180°	2.5	2.5	2.5	2.5	2.5

(END OF REPORT)