



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: P212898

Luminaire Tested: **FPS-4-LD4-1LO-35-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: P212898  
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-35-CLR  
Description: FPS 4' LED FIXTURE WITH CLEAR LENS  
Light Source: (84) EATON 3500K 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: 2810.6 lumens  
Efficiency: N/A  
Efficacy: 119.2 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

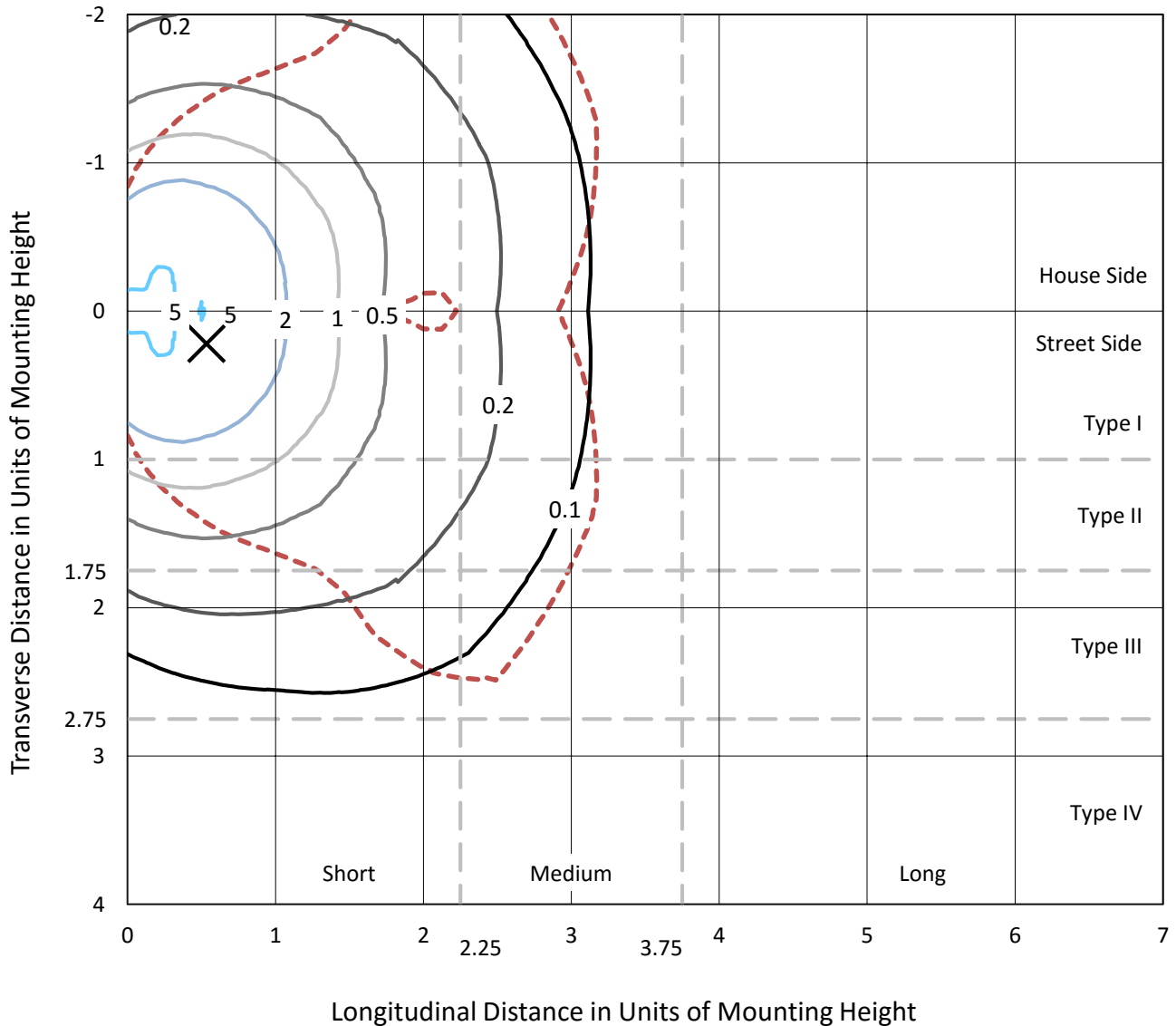
Input Watts (W): 23.57  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

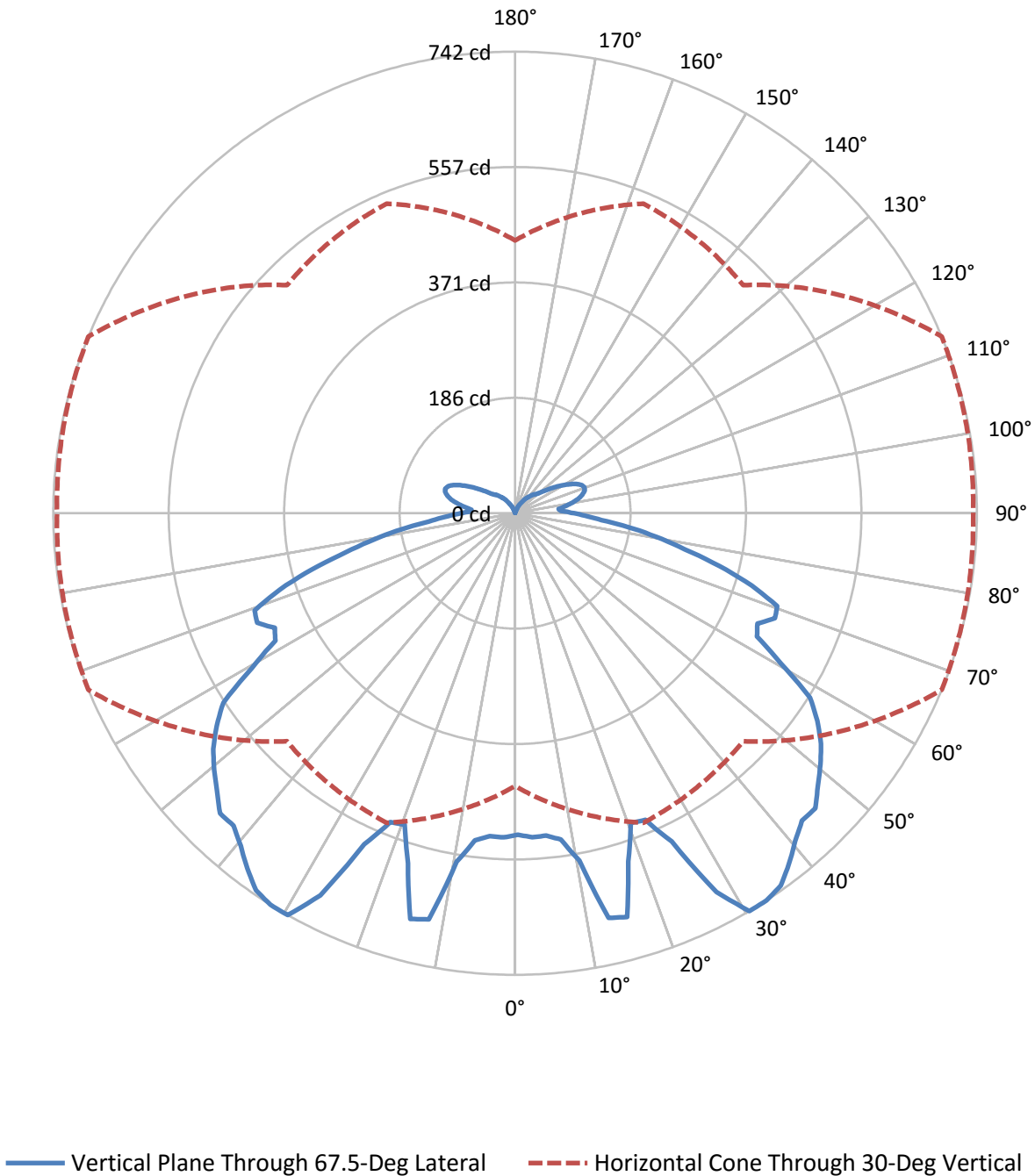


Based on 10 foot mounting height. Maximum calculated value = 5.9 fc  
 Type V - Short - Semi-Cutoff



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### Luminous Intensity Polar Plot





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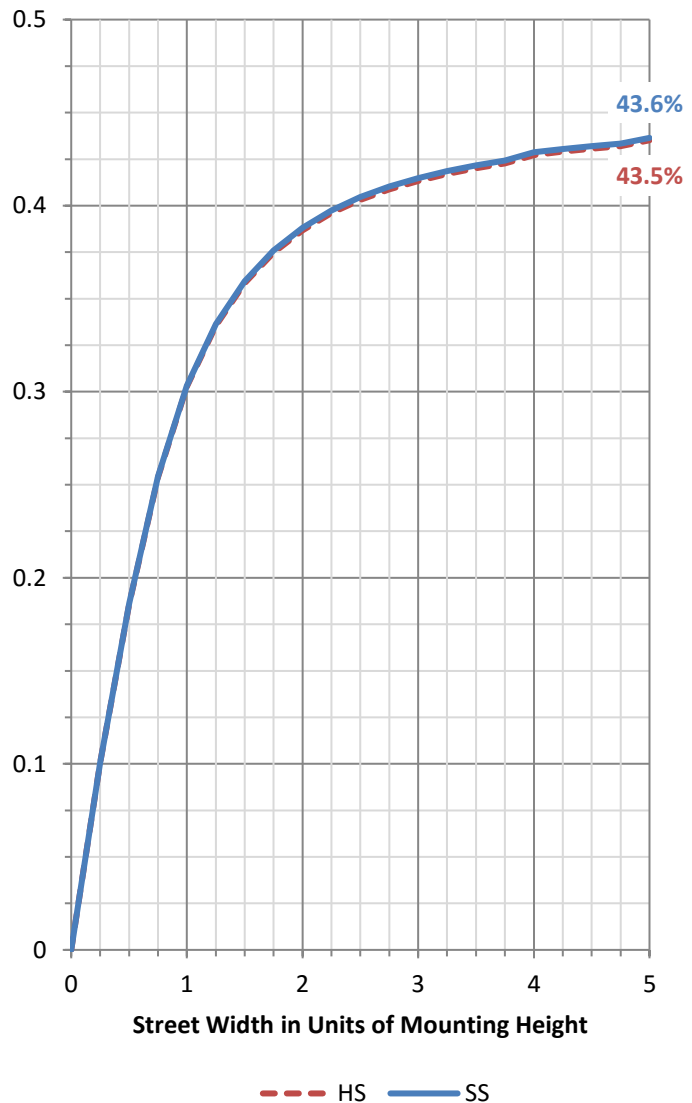
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1253.9	151.4	1405.3
	% Fixture	44.6	5.4	50.0
<b>Street Side</b>	Lumens	1253.9	151.4	1405.3
	% Fixture	44.6	5.4	50.0
<b>Total</b>	Lumens	2507.9	302.8	2810.6
	% Fixture	89.2	10.8	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.3	1.8
10°-20°	162.8	5.8
20°-30°	261.6	9.3
30°-40°	382.2	13.6
40°-50°	444.2	15.8
50°-60°	422.8	15.0
60°-70°	358.3	12.7
70°-80°	291.9	10.4
80°-90°	133.6	4.8
90°-100°	64.1	2.3
100°-110°	84.7	3.0
110°-120°	75.0	2.7
120°-130°	42.2	1.5
130°-140°	21.5	0.8
140°-150°	10.3	0.4
150°-160°	3.8	0.1
160°-170°	0.9	0.0
170°-180°	0.2	0.0
0°-90°	2507.9	89.2
0°-180°	2810.6	100.0





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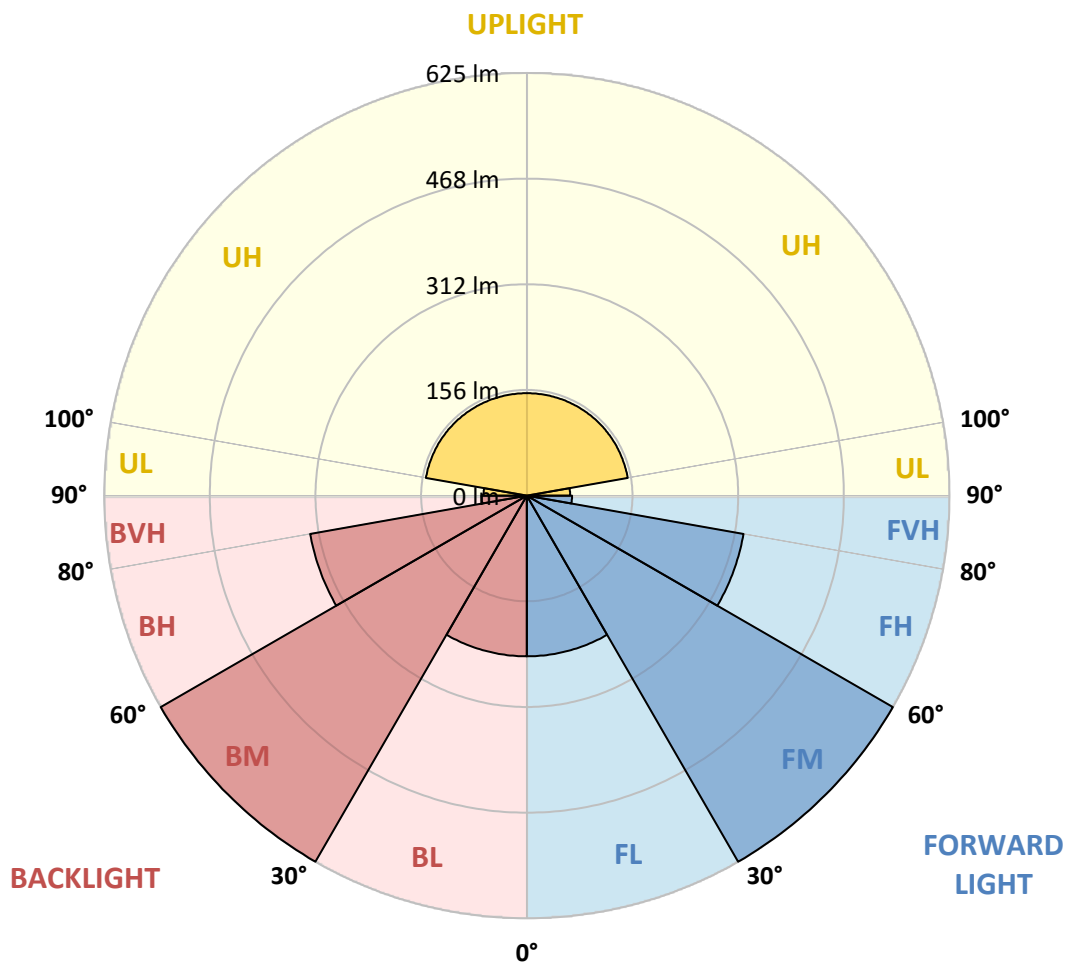
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	237.4	8.4			
FM (30°-60°)	624.6	22.2			
FH (60°-80°)	325.1	11.6			G0/660
FVH (80°-90°)	66.8	2.4			G1/100
BL (0°-30°)	237.4	8.4	B1/500		
BM (30°-60°)	624.6	22.2	B1/1000		
BH (60°-80°)	325.1	11.6	B1/500		G0/660
BVH (80°-90°)	66.8	2.4			G1/100
UL (90°-100°)	64.1	2.3		U3/500	
UH (100°-180°)	151.4	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°	517.1	517.1	517.1	517.1	517.1
2.5°	521.6	520.8	520.1	521.6	520.1
5°	520.8	524.6	521.6	520.8	517.8
7.5°	516.3	523.8	520.1	529.9	531.4
10°	516.3	523.1	529.9	568.3	593.2
12.5°	511.8	517.1	553.2	667.8	679.9
15°	504.2	512.5	619.6	673.8	626.3
17.5°	499.0	513.3	672.3	588.7	535.9
20°	492.2	514.0	660.3	531.4	525.3
22.5°	480.9	515.5	602.2	535.9	563.8
25°	467.3	517.8	540.4	584.9	668.5
27.5°	453.7	526.1	518.6	689.7	737.1
30°	438.7	538.9	518.6	742.4	736.4
32.5°	422.1	557.0	536.6	742.4	733.4
35°	407.8	569.8	575.8	735.6	713.0
37.5°	388.2	569.8	625.6	715.3	697.9
40°	368.6	566.8	657.2	693.4	704.7
42.5°	349.0	545.7	648.2	676.1	683.6
45°	331.6	514.8	631.6	676.8	658.0
47.5°	310.5	484.6	611.3	655.0	606.7
50°	293.2	456.0	578.9	636.1	586.4
52.5°	271.3	428.9	555.5	615.8	551.0
55°	250.2	400.2	531.4	589.4	522.3
57.5°	229.1	374.6	506.5	559.3	456.0
60°	209.5	346.0	472.6	491.4	380.6
62.5°	190.7	315.8	447.0	436.4	356.5
65°	171.1	289.4	421.3	428.1	358.8
67.5°	152.3	266.1	418.3	450.7	390.4
70°	134.2	254.0	428.1	447.0	386.7
72.5°	115.3	248.0	404.0	398.0	343.7
75°	96.5	236.7	350.5	339.2	292.4
77.5°	79.1	206.5	296.2	278.9	243.5
80°	60.3	169.6	243.5	229.9	199.7
82.5°	45.2	133.4	199.7	183.2	161.3
85°	28.6	101.0	149.2	139.4	123.6
87.5°	17.3	70.8	114.6	112.3	99.5
90°	9.0	47.5	84.4	90.4	79.9
92.5°	10.6	38.4	63.3	73.9	67.1
95°	12.1	39.9	64.1	70.1	64.1
97.5°	13.6	43.7	73.1	81.4	73.1
100°	13.6	49.0	85.2	93.5	82.9
102.5°	13.6	53.5	95.0	104.8	92.0
105°	13.6	56.5	102.5	112.3	99.5
107.5°	12.8	57.3	107.0	117.6	104.0
110°	12.1	55.8	107.0	119.1	105.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	11.3	52.8	103.3	116.1	102.5
115°	10.6	48.2	96.5	109.3	95.7
117.5°	9.8	42.2	87.4	99.5	87.4
120°	9.0	36.2	76.9	88.2	78.4
122.5°	8.3	30.9	67.1	77.6	69.3
125°	7.5	25.6	58.0	66.3	60.3
127.5°	6.8	21.1	50.5	57.3	53.5
130°	6.0	17.3	44.5	49.0	46.7
132.5°	6.0	14.3	39.9	44.5	42.2
135°	5.3	11.3	33.9	42.2	40.7
137.5°	5.3	9.8	27.9	37.7	38.4
140°	5.3	7.5	23.4	33.2	34.7
142.5°	4.5	6.0	19.6	30.9	31.7
145°	4.5	5.3	16.6	26.4	27.9
147.5°	4.5	5.3	13.6	21.9	24.1
150°	4.5	4.5	11.3	18.1	20.4
152.5°	4.5	4.5	9.0	15.1	17.3
155°	4.5	4.5	6.8	12.1	14.3
157.5°	3.8	4.5	4.5	8.3	10.6
160°	3.8	4.5	3.8	5.3	7.5
162.5°	3.8	3.8	3.0	2.3	3.0
165°	3.8	3.8	3.0	1.5	0.8
167.5°	3.8	3.8	3.0	1.5	0.0
170°	3.8	3.8	3.0	1.5	0.0
172.5°	3.8	3.8	3.0	1.5	0.0
175°	3.8	3.8	3.0	0.8	0.0
177.5°	3.8	3.8	3.0	0.8	0.0
180°	2.3	2.3	2.3	2.3	2.3

(END OF REPORT)