



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: P212894

Luminaire Tested: **FPS-4-LD4-1LO-30-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: P212894  
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-30-CLR  
Description: FPS 4' LED FIXTURE WITH CLEAR LENS  
Light Source: (84) EATON 3000K 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: 2785 lumens  
Efficiency: N/A  
Efficacy: 118.2 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

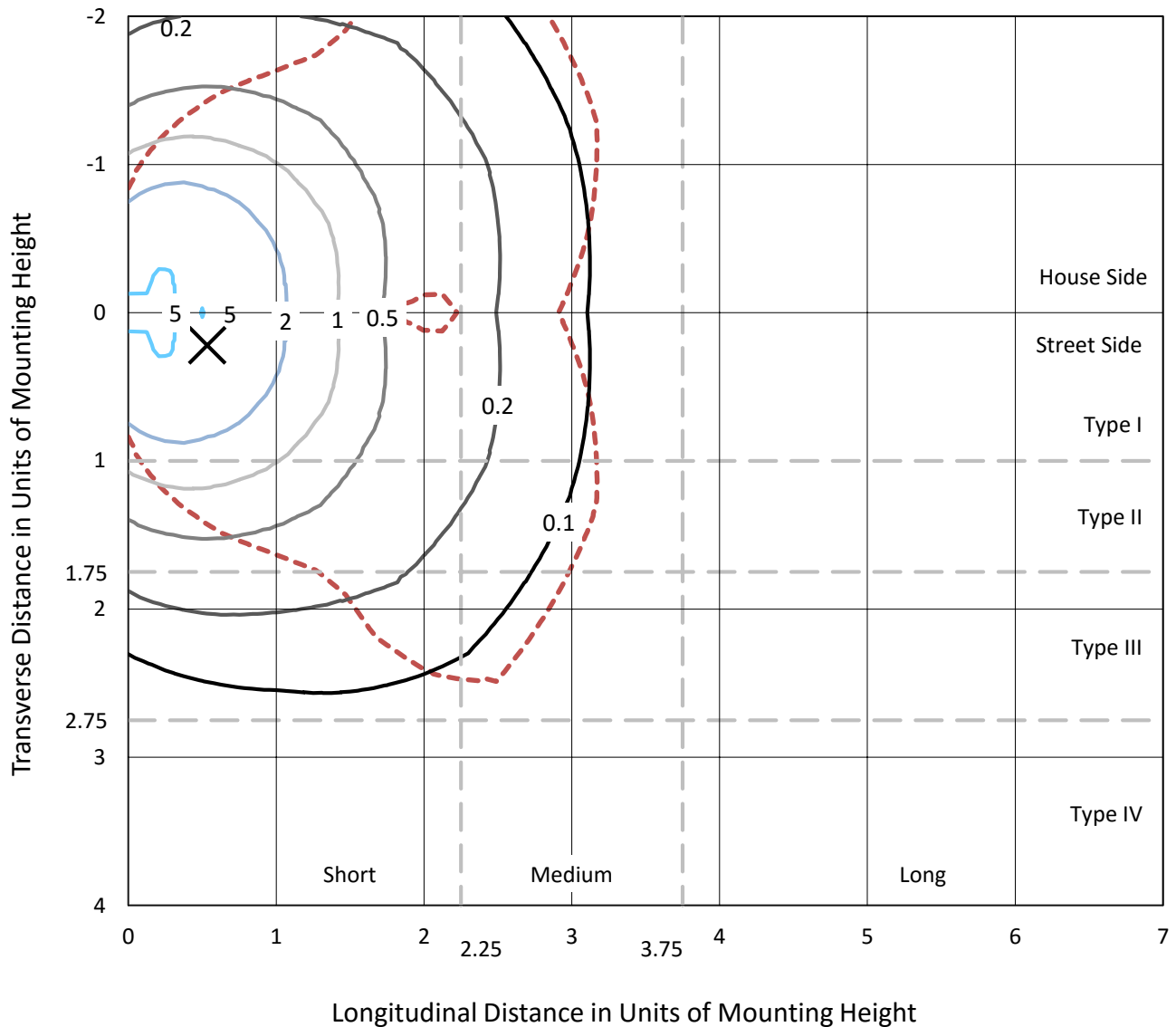
Input Watts (W): 23.57  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P212894  
 CATALOG NUMBER: FPS-4-LD4-1LO-30-CLR

### Iso-Footcandle Lines of Horizontal Illumination

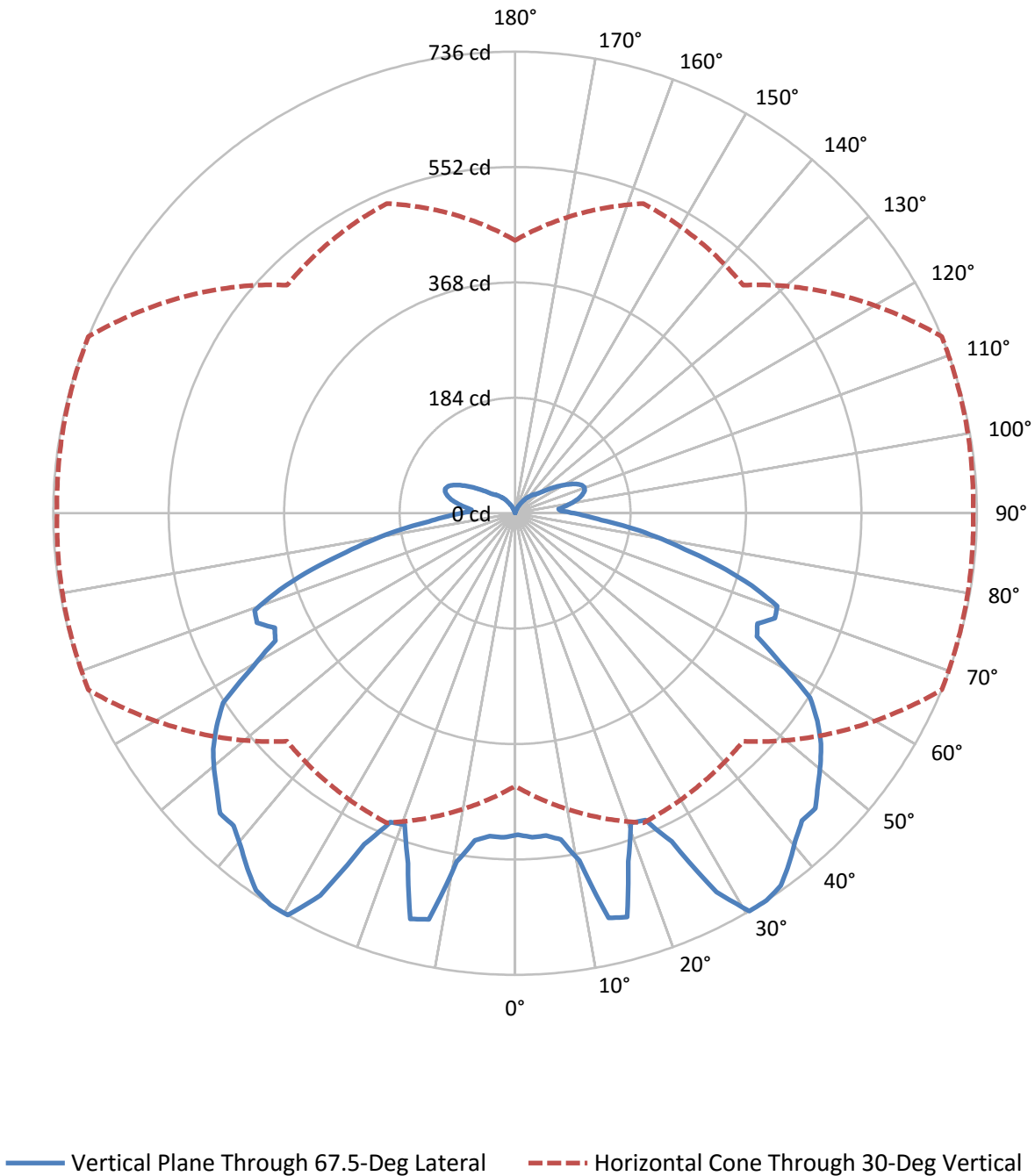
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P212894  
CATALOG NUMBER: FPS-4-LD4-1LO-30-CLR

### Luminous Intensity Polar Plot





REPORT NUMBER: P212894

CATALOG NUMBER: FPS-4-LD4-1LO-30-CLR

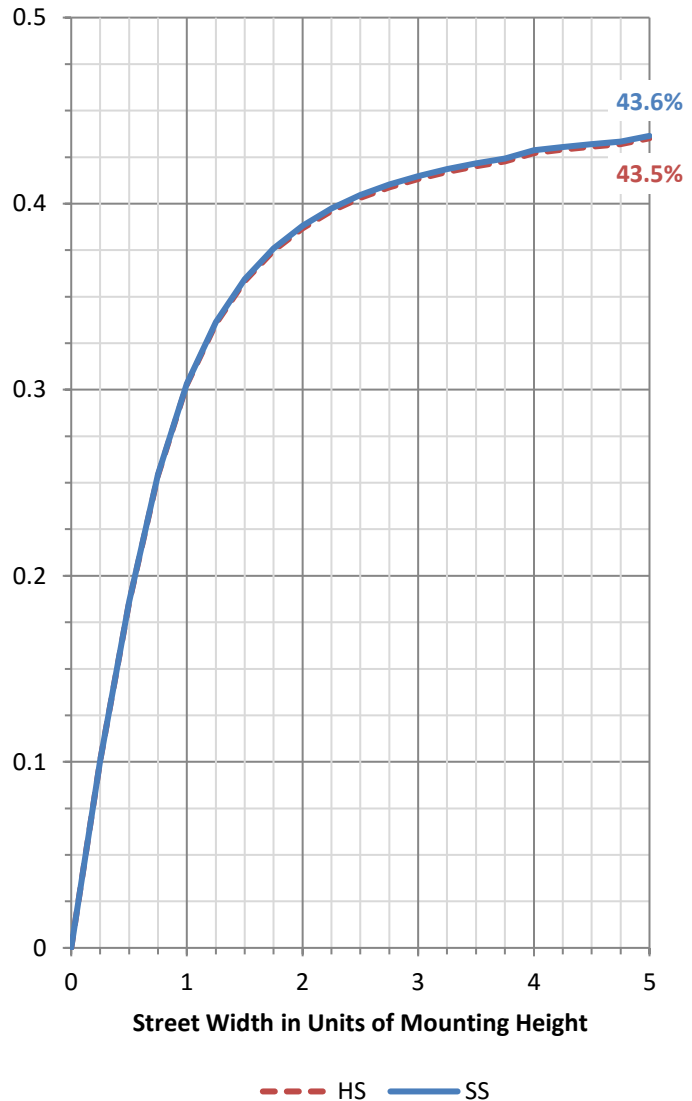
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1242.5	150.0	1392.5
	% Fixture	44.6	5.4	50.0
<b>Street Side</b>	Lumens	1242.5	150.0	1392.5
	% Fixture	44.6	5.4	50.0
<b>Total</b>	Lumens	2485.0	300.0	2785.0
	% Fixture	89.2	10.8	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.9	1.8
10°-20°	161.3	5.8
20°-30°	259.3	9.3
30°-40°	378.8	13.6
40°-50°	440.2	15.8
50°-60°	419.0	15.0
60°-70°	355.0	12.7
70°-80°	289.2	10.4
80°-90°	132.4	4.8
90°-100°	63.5	2.3
100°-110°	84.0	3.0
110°-120°	74.3	2.7
120°-130°	41.8	1.5
130°-140°	21.3	0.8
140°-150°	10.2	0.4
150°-160°	3.8	0.1
160°-170°	0.9	0.0
170°-180°	0.2	0.0
0°-90°	2485.0	89.2
0°-180°	2785.0	100.0





REPORT NUMBER: P212894

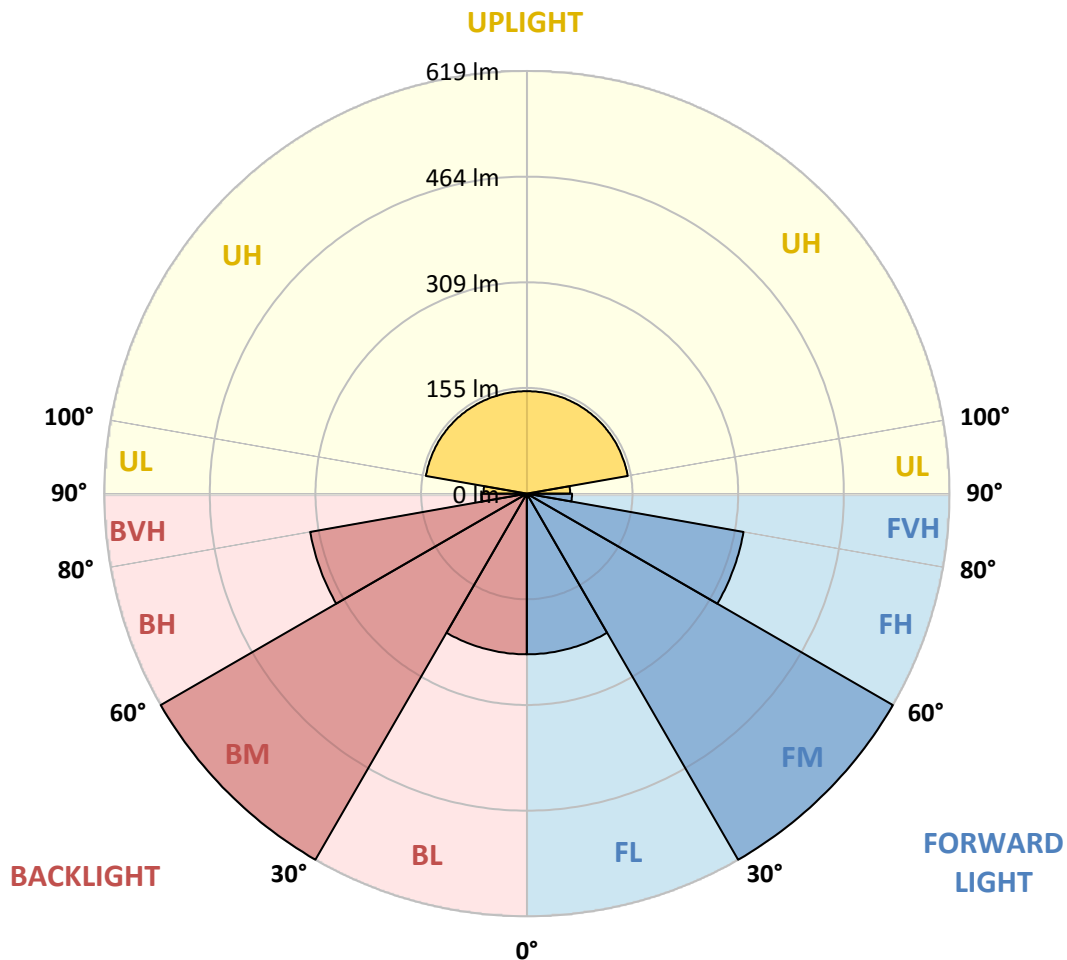
CATALOG NUMBER: FPS-4-LD4-1LO-30-CLR

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	235.2	8.4			
FM (30°-60°)	618.9	22.2			
FH (60°-80°)	322.1	11.6			G0/660
FVH (80°-90°)	66.2	2.4			G1/100
BL (0°-30°)	235.2	8.4	B1/500		
BM (30°-60°)	618.9	22.2	B1/1000		
BH (60°-80°)	322.1	11.6	B1/500		G0/660
BVH (80°-90°)	66.2	2.4			G1/100
UL (90°-100°)	63.5	2.3		U3/500	
UH (100°-180°)	150.0	5.4		U3/500	

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

Type V Short





REPORT NUMBER: P212894

CATALOG NUMBER: FPS-4-LD4-1LO-30-CLR

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	512.3	512.3	512.3	512.3	512.3
2.5°	516.8	516.1	515.3	516.8	515.3
5°	516.1	519.8	516.8	516.1	513.1
7.5°	511.6	519.1	515.3	525.0	526.5
10°	511.6	518.3	525.0	563.1	587.8
12.5°	507.1	512.3	548.2	661.7	673.7
15°	499.6	507.9	613.9	667.7	620.6
17.5°	494.4	508.6	666.2	583.3	531.0
20°	487.7	509.3	654.2	526.5	520.6
22.5°	476.5	510.8	596.7	531.0	558.6
25°	463.0	513.1	535.5	579.6	662.5
27.5°	449.6	521.3	513.8	683.4	730.4
30°	434.7	534.0	513.8	735.6	729.7
32.5°	418.2	551.9	531.8	735.6	726.7
35°	404.0	564.6	570.6	728.9	706.5
37.5°	384.6	564.6	619.9	708.8	691.6
40°	365.2	561.6	651.2	687.1	698.3
42.5°	345.8	540.7	642.3	669.9	677.4
45°	328.6	510.1	625.9	670.7	652.0
47.5°	307.7	480.2	605.7	649.0	601.2
50°	290.5	451.8	573.6	630.3	581.0
52.5°	268.9	425.0	550.4	610.2	545.9
55°	248.0	396.6	526.5	584.0	517.6
57.5°	227.0	371.2	501.9	554.2	451.8
60°	207.6	342.8	468.3	486.9	377.2
62.5°	189.0	312.9	442.9	432.4	353.3
65°	169.5	286.8	417.5	424.2	355.5
67.5°	150.9	263.6	414.5	446.6	386.9
70°	132.9	251.7	424.2	442.9	383.1
72.5°	114.3	245.7	400.3	394.3	340.6
75°	95.6	234.5	347.3	336.1	289.8
77.5°	78.4	204.6	293.5	276.3	241.2
80°	59.7	168.0	241.2	227.8	197.9
82.5°	44.8	132.2	197.9	181.5	159.8
85°	28.4	100.1	147.9	138.2	122.5
87.5°	17.2	70.2	113.5	111.3	98.6
90°	9.0	47.1	83.6	89.6	79.2
92.5°	10.5	38.1	62.7	73.2	66.5
95°	11.9	39.6	63.5	69.5	63.5
97.5°	13.4	43.3	72.4	80.7	72.4
100°	13.4	48.5	84.4	92.6	82.2
102.5°	13.4	53.0	94.1	103.8	91.1
105°	13.4	56.0	101.6	111.3	98.6
107.5°	12.7	56.8	106.1	116.5	103.1
110°	11.9	55.3	106.1	118.0	104.6



REPORT NUMBER: P212894

CATALOG NUMBER: FPS-4-LD4-1LO-30-CLR

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	11.2	52.3	102.3	115.0	101.6
115°	10.5	47.8	95.6	108.3	94.8
117.5°	9.7	41.8	86.6	98.6	86.6
120°	9.0	35.8	76.2	87.4	77.7
122.5°	8.2	30.6	66.5	76.9	68.7
125°	7.5	25.4	57.5	65.7	59.7
127.5°	6.7	20.9	50.0	56.8	53.0
130°	6.0	17.2	44.1	48.5	46.3
132.5°	6.0	14.2	39.6	44.1	41.8
135°	5.2	11.2	33.6	41.8	40.3
137.5°	5.2	9.7	27.6	37.3	38.1
140°	5.2	7.5	23.2	32.9	34.4
142.5°	4.5	6.0	19.4	30.6	31.4
145°	4.5	5.2	16.4	26.1	27.6
147.5°	4.5	5.2	13.4	21.7	23.9
150°	4.5	4.5	11.2	17.9	20.2
152.5°	4.5	4.5	9.0	14.9	17.2
155°	4.5	4.5	6.7	11.9	14.2
157.5°	3.7	4.5	4.5	8.2	10.5
160°	3.7	4.5	3.7	5.2	7.5
162.5°	3.7	3.7	3.0	2.2	3.0
165°	3.7	3.7	3.0	1.5	0.7
167.5°	3.7	3.7	3.0	1.5	0.0
170°	3.7	3.7	3.0	1.5	0.0
172.5°	3.7	3.7	3.0	1.5	0.0
175°	3.7	3.7	3.0	0.7	0.0
177.5°	3.7	3.7	3.0	0.7	0.0
180°	2.2	2.2	2.2	2.2	2.2

(END OF REPORT)