



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: io LED

Report Number: P397176

Luminaire Tested: **2VRVT2-LD5-2-DR100-W-UNV-LG52-CD1-WL-U**

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: P397176  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-10)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: EATON (FORMERLY COOPER LIGHTING)  
Product Line: io LED  
Catalog Number: 2VRVT2-LD5-2-DR100-W-UNV-LG52-CD1-WL-U  
Description:  
Light Source: -  
Ballast/Driver: ELECTRONIC 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: 1662.3 lumens  
Efficiency: N/A  
Efficacy: 40.2 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B1 - U3 - G1  
  
Input Watts (W): 41.4  
Input Voltage (V): NR  
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

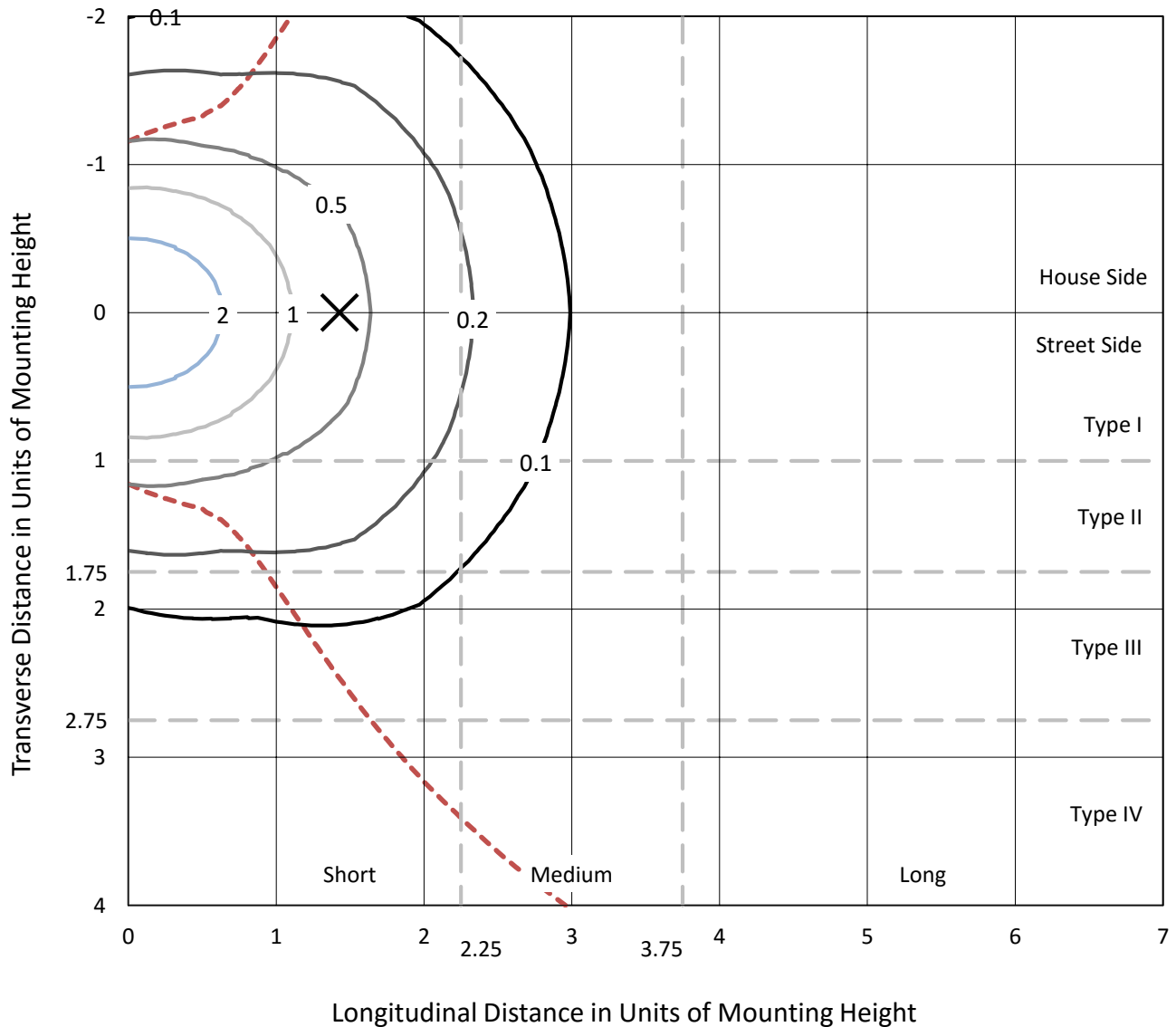


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd



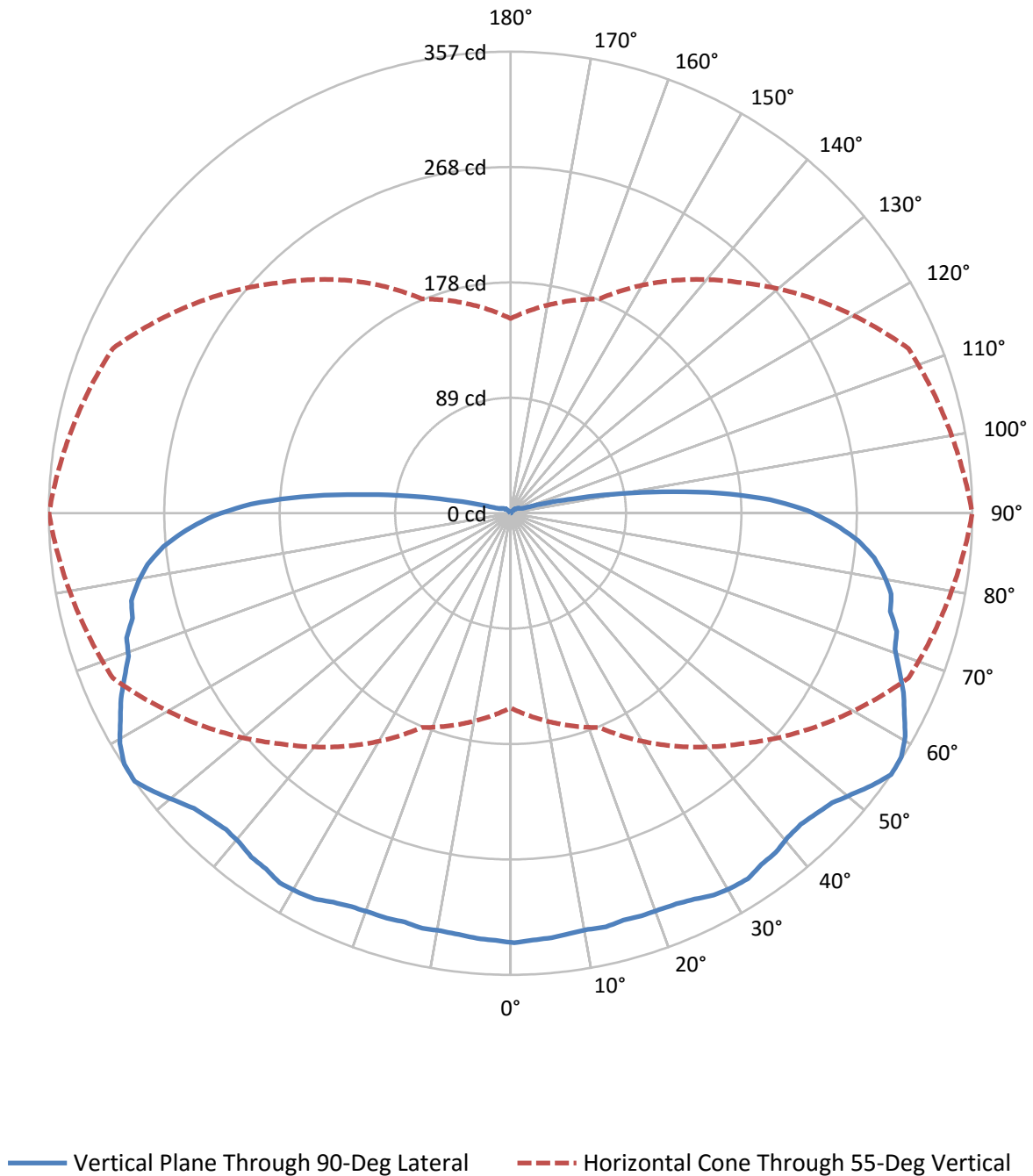
Based on 10 foot mounting height. Maximum calculated value = 3.3 fc  
 Type V - Short - Non-Cutoff



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### Luminous Intensity Polar Plot





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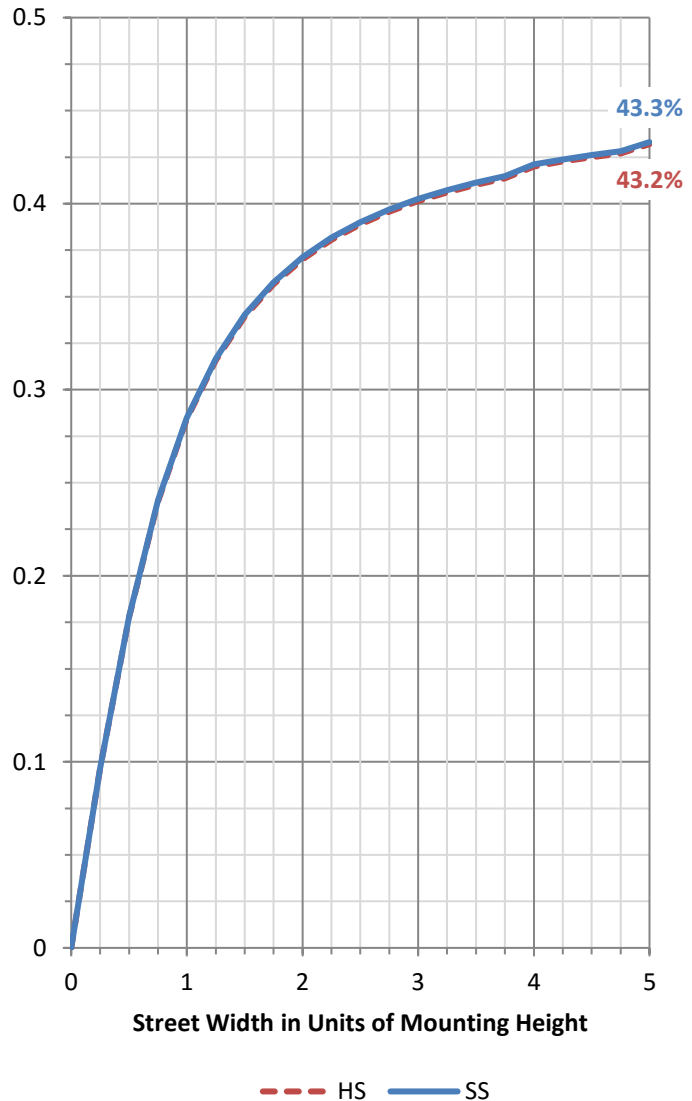
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	758.0	73.1	831.1
	% Fixture	45.6	4.4	50.0
<b>Street Side</b>	Lumens	758.0	73.1	831.1
	% Fixture	45.6	4.4	50.0
<b>Total</b>	Lumens	1516.1	146.2	1662.3
	% Fixture	91.2	8.8	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.4	1.9
10°-20°	90.9	5.5
20°-30°	142.5	8.6
30°-40°	182.3	11.0
40°-50°	206.6	12.4
50°-60°	227.7	13.7
60°-70°	236.0	14.2
70°-80°	220.3	13.3
80°-90°	178.3	10.7
90°-100°	101.1	6.1
100°-110°	28.0	1.7
110°-120°	9.7	0.6
120°-130°	5.1	0.3
130°-140°	2.0	0.1
140°-150°	0.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1516.1	91.2
0°-180°	1662.3	100.0





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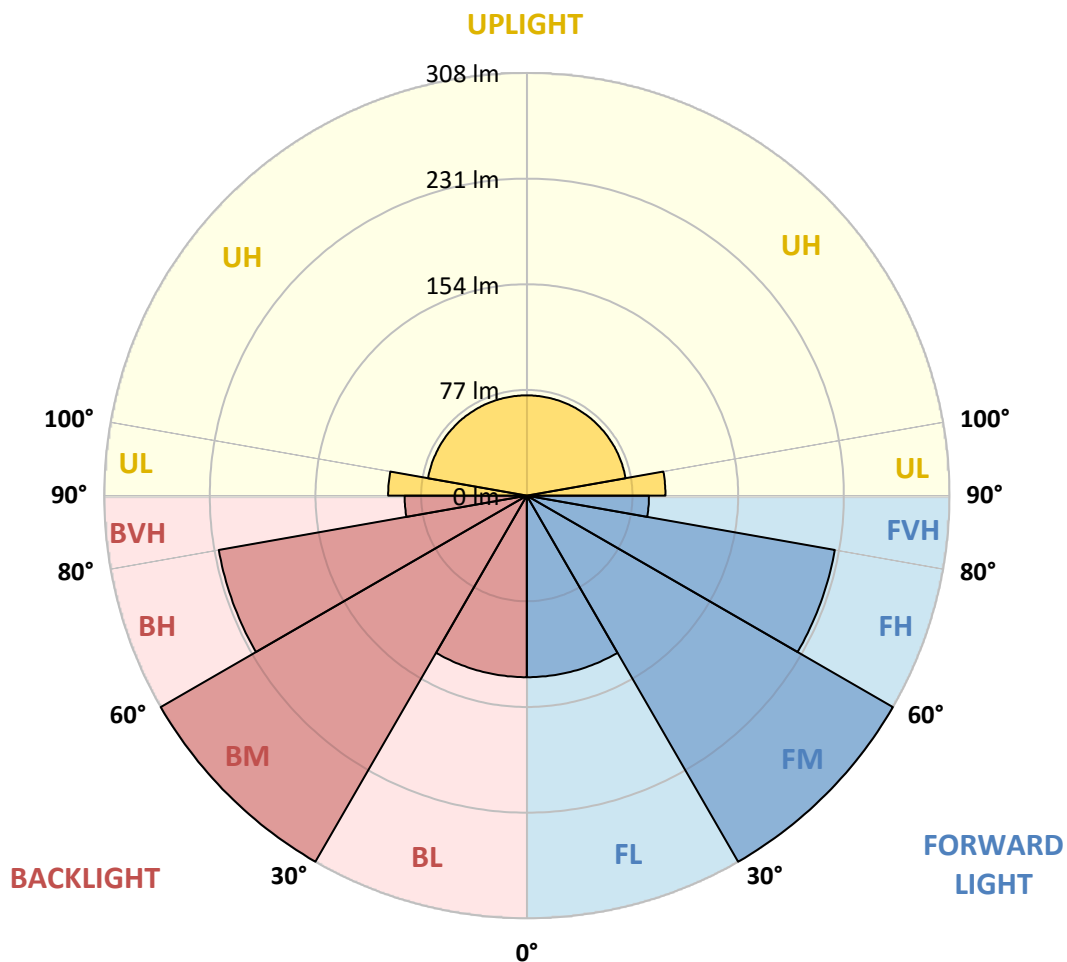
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	132.4	8.0			
FM (30°-60°)	308.3	18.5			
FH (60°-80°)	228.1	13.7			G0/660
FVH (80°-90°)	89.1	5.4			G1/100
BL (0°-30°)	132.4	8.0	B1/500		
BM (30°-60°)	308.3	18.5	B1/1000		
BH (60°-80°)	228.1	13.7	B1/500		G0/660
BVH (80°-90°)	89.1	5.4			G1/100
UL (90°-100°)	101.1	6.1		U3/500	
UH (100°-180°)	73.1	4.4		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°	331.9	331.9	331.9	331.9	331.9
2.5°	332.7	332.7	331.9	331.1	330.3
5°	329.5	330.3	331.1	330.3	329.5
7.5°	327.1	328.7	328.7	329.5	327.9
10°	323.9	325.5	326.3	327.9	327.1
12.5°	319.9	321.5	323.9	326.3	327.9
15°	314.3	317.5	321.5	326.3	326.3
17.5°	308.7	311.9	320.7	325.5	327.1
20°	301.5	306.3	316.7	324.7	327.1
22.5°	293.5	299.9	311.9	324.7	327.9
25°	285.5	292.7	307.9	325.5	330.3
27.5°	277.5	284.7	303.9	324.7	334.3
30°	267.1	277.5	300.7	324.7	335.9
32.5°	255.9	268.7	297.5	324.7	336.7
35°	243.9	259.1	292.7	323.9	333.5
37.5°	232.8	249.5	287.9	319.9	332.7
40°	221.6	240.0	281.5	316.7	329.5
42.5°	209.6	230.4	275.9	312.7	328.7
45°	197.6	220.8	268.7	312.7	331.1
47.5°	185.6	210.4	261.5	314.3	334.3
50°	174.4	200.0	256.7	317.5	341.5
52.5°	161.6	189.6	253.5	325.5	349.5
55°	150.4	179.2	251.9	332.7	356.7
57.5°	137.6	169.6	254.3	337.5	355.9
60°	125.6	159.2	259.9	335.9	350.3
62.5°	114.4	151.2	265.5	331.1	341.5
65°	103.2	144.8	270.3	322.3	333.5
67.5°	91.2	140.0	268.7	312.7	323.9
70°	80.8	138.4	259.9	301.5	315.1
72.5°	70.4	138.4	247.1	291.1	311.9
75°	61.6	137.6	231.2	284.7	303.1
77.5°	51.2	134.4	214.4	277.5	300.7
80°	42.4	124.8	199.2	266.3	292.7
82.5°	34.4	112.0	184.0	255.9	283.1
85°	26.4	97.6	169.6	243.9	269.5
87.5°	20.0	84.0	153.6	224.8	251.1
90°	16.0	72.8	137.6	204.8	229.6
92.5°	15.2	60.8	117.6	176.8	200.8
95°	14.4	48.8	93.6	142.4	162.4
97.5°	13.6	37.6	69.6	104.0	118.4
100°	12.8	28.8	51.2	71.2	80.0
102.5°	12.0	22.4	36.8	46.4	49.6
105°	10.4	17.6	26.4	29.6	30.4
107.5°	9.6	13.6	20.0	19.2	18.4
110°	8.8	12.0	16.0	13.6	12.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.2	9.6	13.6	11.2	9.6
115°	6.4	8.0	12.0	10.4	8.8
117.5°	4.8	7.2	11.2	9.6	8.0
120°	4.0	5.6	9.6	8.8	7.2
122.5°	3.2	4.8	8.8	8.0	7.2
125°	2.4	3.2	7.2	7.2	6.4
127.5°	2.4	2.4	6.4	6.4	5.6
130°	1.6	1.6	4.8	5.6	5.6
132.5°	1.6	0.8	4.0	4.8	4.8
135°	0.8	0.8	3.2	4.0	4.0
137.5°	0.8	0.8	1.6	3.2	3.2
140°	0.8	0.0	0.8	2.4	2.4
142.5°	0.8	0.0	0.0	1.6	0.8
145°	0.8	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)