

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
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P197658

Luminaire Tested: **TT-C2-LED-E1-5MQ-PM-CG-LWR-LW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115378)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C2-LED-E1-5MQ-PM-CG-LWR-LW
Description: TOPTIER LED AREA/SITE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (168) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3772.9 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 34
Input Voltage (V): NR
Input Current (A_{in}): 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

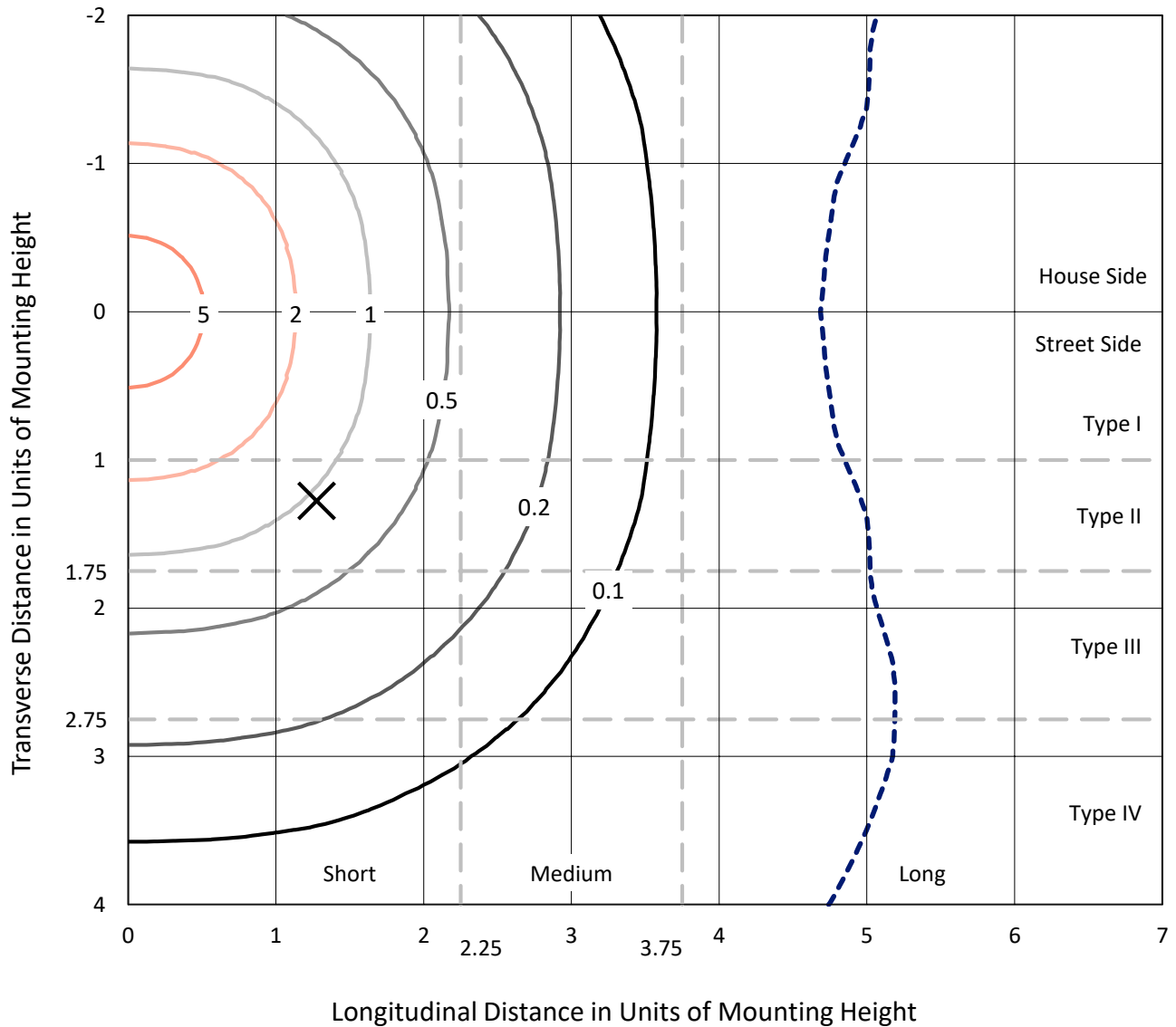


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

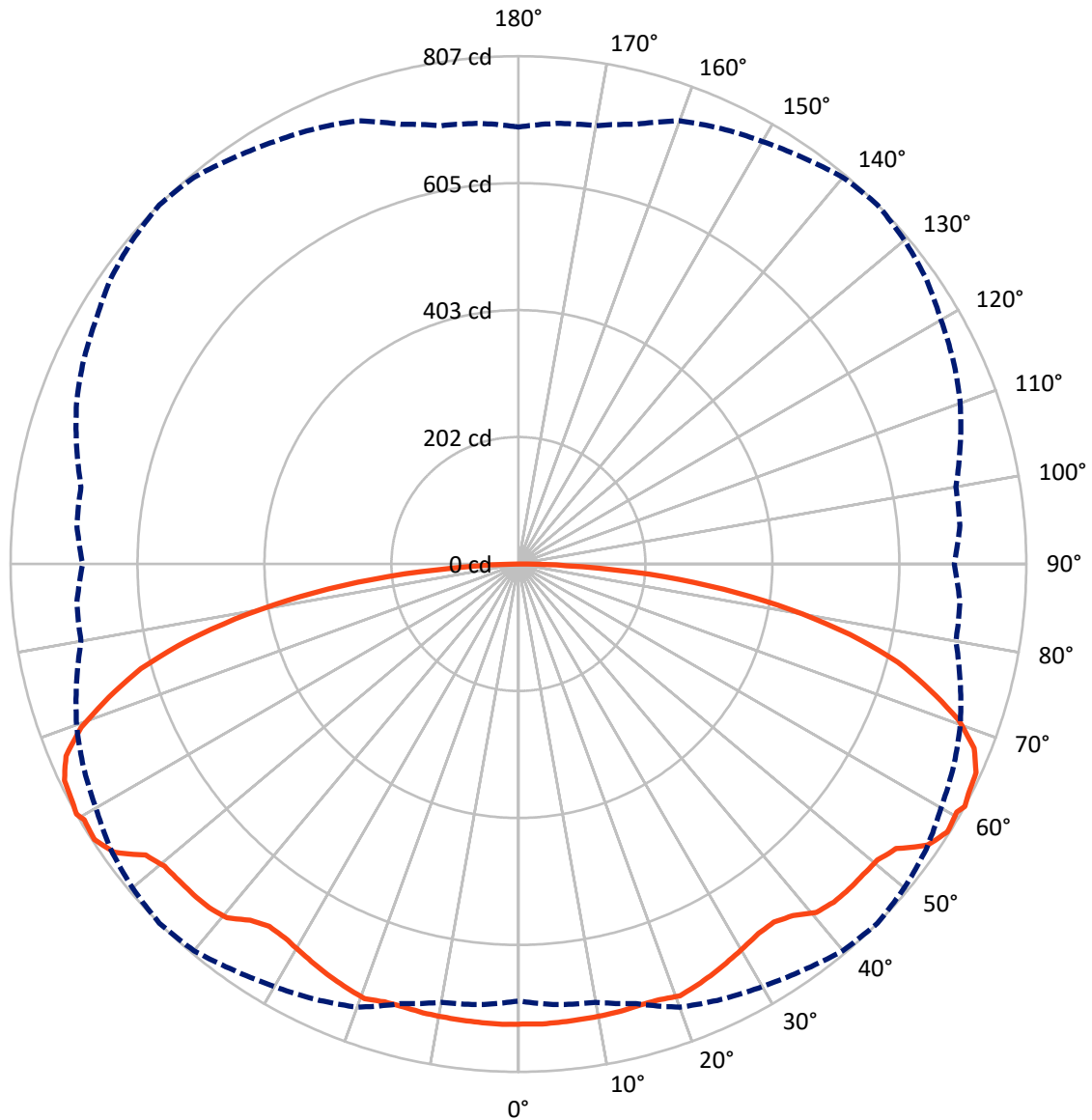


Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 61-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1886.5	0.0	1886.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1886.5	0.0	1886.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	3772.9	0.0	3772.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.7	1.8
10°-20°	206.2	5.5
20°-30°	331.7	8.8
30°-40°	439.4	11.6
40°-50°	554.9	14.7
50°-60°	664.9	17.6
60°-70°	727.1	19.3
70°-80°	582.0	15.4
80°-90°	196.9	5.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3772.9	100.0
0°-180°	3772.9	100.0



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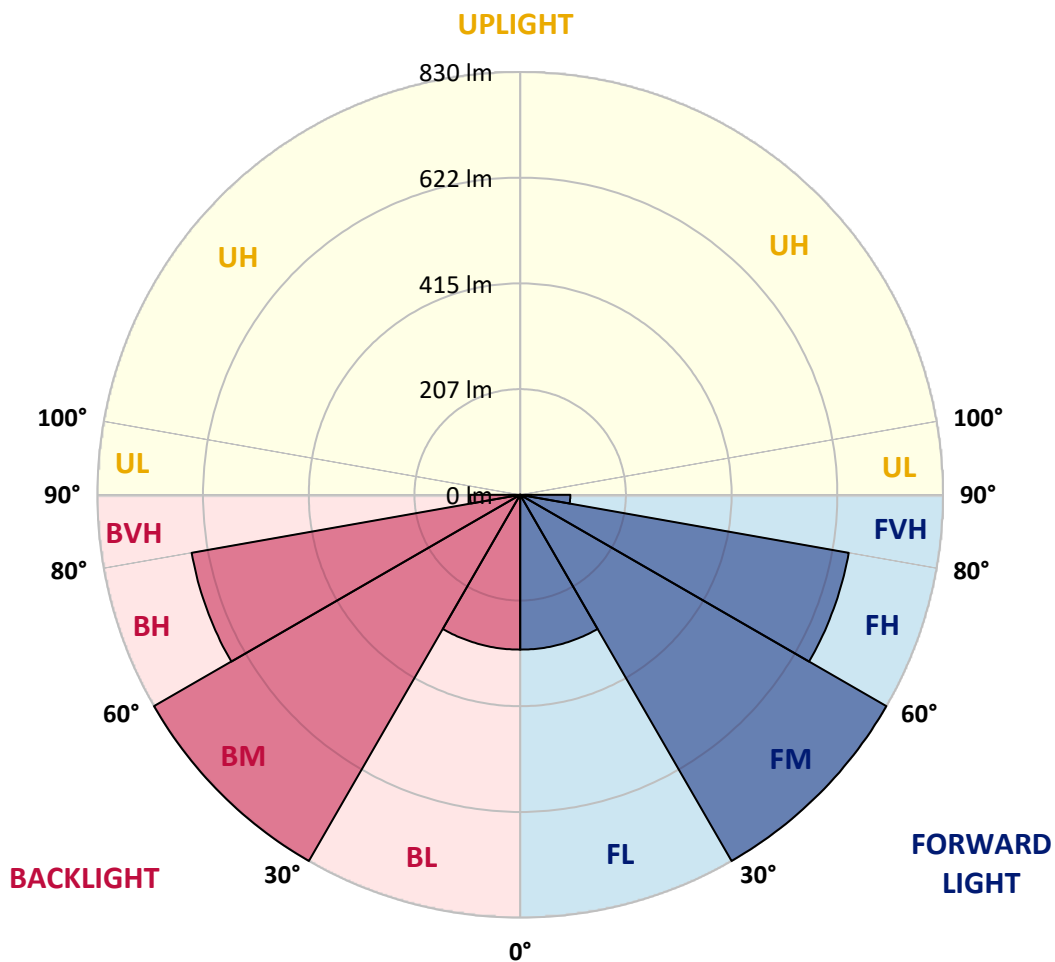
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	303.8	8.1			
FM	(30°-60°)	829.7	22.0			
FH	(60°-80°)	654.5	17.3			G0/660
FVH	(80°-90°)	98.5	2.6			G1/100
BL	(0°-30°)	303.8	8.1	B1/500		
BM	(30°-60°)	829.7	22.0	B1/1000		
BH	(60°-80°)	654.5	17.3	B2/1000		G0/660
BVH	(80°-90°)	98.5	2.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0
2.5°	731.6	731.0	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6
5°	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0
7.5°	730.3	730.3	730.3	730.3	730.3	730.3	730.3	730.3	731.0	730.3	731.0
10°	728.9	728.9	728.9	728.9	729.6	729.6	729.6	729.6	729.6	729.6	729.6
12.5°	727.5	727.5	727.5	727.5	728.2	728.2	728.2	728.2	728.9	728.9	728.2
15°	726.1	725.3	725.3	726.1	726.1	726.8	726.8	726.8	727.5	726.8	726.8
17.5°	724.6	723.9	724.6	725.3	725.3	726.1	726.8	726.8	727.5	727.5	727.5
20°	726.8	726.1	726.8	727.5	728.2	729.6	730.3	731.0	731.6	732.4	732.4
22.5°	722.5	721.8	722.5	722.5	723.2	723.9	725.3	726.1	726.8	726.8	726.8
25°	716.2	716.2	716.9	716.9	717.6	718.3	719.1	719.8	719.8	720.5	719.8
27.5°	709.2	709.2	709.9	709.9	711.3	711.3	712.0	712.7	713.4	713.4	713.4
30°	700.8	700.8	701.5	702.2	703.5	704.2	705.0	705.7	706.4	706.4	706.4
32.5°	693.1	692.4	693.1	694.4	696.5	697.9	699.4	700.1	700.1	700.1	700.8
35°	686.7	687.4	688.8	690.2	693.1	694.4	695.8	697.9	698.7	698.7	698.7
37.5°	688.1	688.8	690.9	693.7	697.2	701.5	704.2	707.1	709.2	708.5	707.8
40°	697.2	698.7	702.2	706.4	712.0	717.6	721.8	725.3	727.5	728.2	727.5
42.5°	698.7	700.1	702.8	709.2	715.5	721.8	727.5	731.0	733.8	734.5	733.8
45°	697.9	697.9	702.2	709.2	715.5	721.8	728.9	733.8	736.6	736.6	736.6
47.5°	693.1	695.1	697.9	705.0	713.4	719.8	726.8	731.6	735.2	737.3	735.2
50°	693.1	693.1	697.9	702.8	710.6	721.8	731.6	736.6	740.2	739.4	740.2
52.5°	691.7	695.8	698.7	705.7	719.8	731.0	738.7	745.7	750.6	751.3	750.0
55°	704.2	705.0	711.3	724.6	738.0	750.6	764.7	775.3	783.7	788.7	781.6
57.5°	714.1	710.6	723.2	734.5	750.0	769.0	790.0	798.4	804.8	803.4	805.5
60°	700.8	705.7	714.8	726.8	751.3	770.3	781.6	790.7	798.4	800.5	797.8
61°	694.4	702.8	707.1	723.2	749.3	763.3	775.3	788.0	802.0	806.9	800.5
62.5°	683.8	697.2	695.8	721.8	738.0	754.2	776.7	791.4	801.3	802.7	801.3
65°	684.6	682.5	698.7	717.6	733.8	762.6	781.6	790.7	796.4	799.1	797.8
67.5°	662.1	655.0	674.7	688.1	715.5	738.0	756.3	769.6	778.1	780.9	777.4
70°	610.1	615.0	629.0	649.4	672.0	699.4	716.2	733.8	740.9	741.5	741.5
72.5°	560.1	563.0	577.1	596.1	622.0	645.9	662.8	676.8	683.2	683.8	685.3
75°	494.1	496.9	513.1	530.6	556.7	577.1	589.0	605.9	615.0	622.8	616.5
77.5°	417.5	422.4	435.0	454.1	477.9	489.2	510.3	530.0	536.3	538.4	536.3
80°	331.0	337.4	348.7	373.9	384.5	402.8	423.1	431.6	437.2	438.6	439.3
82.5°	238.3	243.2	255.1	272.7	284.6	299.5	313.5	324.0	330.3	329.0	328.3
85°	140.5	142.0	154.6	166.6	175.8	184.9	196.1	203.9	205.3	208.0	207.3
87.5°	42.2	42.9	48.5	54.8	59.1	63.2	70.3	79.5	81.5	75.9	76.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0
2.5°	731.6	731.6	731.6	731.6	731.6	731.6	731.0	731.6
5°	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0
7.5°	731.0	730.3	730.3	730.3	730.3	730.3	730.3	730.3
10°	729.6	729.6	729.6	729.6	728.9	728.9	728.9	728.9
12.5°	728.2	728.2	728.2	728.2	727.5	727.5	727.5	727.5
15°	726.8	726.8	726.8	726.8	726.1	726.1	726.1	726.1
17.5°	727.5	726.8	726.1	726.1	725.3	724.6	724.6	724.6
20°	731.6	731.0	729.6	728.2	727.5	726.8	726.8	726.8
22.5°	726.1	725.3	723.9	723.2	723.2	722.5	721.8	721.8
25°	719.8	718.3	718.3	717.6	717.6	716.2	716.2	715.5
27.5°	712.7	712.0	711.3	710.6	710.6	709.9	709.2	708.5
30°	706.4	705.0	703.5	702.8	702.2	701.5	701.5	701.5
32.5°	700.1	698.7	697.9	695.8	694.4	693.7	693.1	693.1
35°	697.9	695.8	694.4	692.4	690.2	688.8	688.1	686.7
37.5°	706.4	703.5	701.5	697.9	693.1	690.9	688.8	688.1
40°	724.6	721.8	717.6	712.0	706.4	702.2	698.7	697.2
42.5°	731.0	727.5	721.8	716.2	709.2	702.8	700.1	698.7
45°	733.1	729.6	721.8	714.8	708.5	702.8	698.7	697.2
47.5°	731.0	726.1	719.1	713.4	704.2	697.2	694.4	692.4
50°	735.9	731.6	722.5	709.9	702.2	697.9	693.1	692.4
52.5°	745.7	738.0	729.6	720.5	705.7	697.2	694.4	690.9
55°	775.3	764.7	750.0	735.2	726.1	712.7	704.2	704.2
57.5°	797.8	789.3	770.3	750.6	733.8	723.9	711.3	712.0
60°	791.4	780.1	771.0	751.3	727.5	714.1	709.2	700.1
61°	790.7	775.3	762.6	747.2	726.8	705.7	704.2	692.4
62.5°	792.1	778.1	754.2	738.0	722.5	695.1	694.4	683.2
65°	790.7	777.4	765.4	735.2	714.1	702.8	679.0	688.1
67.5°	769.0	757.0	735.2	718.3	686.0	672.0	658.6	658.6
70°	734.5	716.9	695.8	674.7	653.0	629.0	617.1	610.1
72.5°	676.8	662.1	645.3	622.8	596.1	574.2	563.0	558.1
75°	604.5	588.3	573.5	556.7	528.6	510.3	498.3	494.8
77.5°	528.6	514.5	488.5	472.4	453.4	432.3	421.7	417.5
80°	431.6	423.9	405.6	379.5	370.4	344.4	337.4	331.0
82.5°	324.0	315.6	298.7	280.5	269.2	254.4	241.8	240.4
85°	203.9	198.2	187.6	174.3	160.2	151.8	140.5	143.4
87.5°	75.9	72.4	66.1	57.6	51.3	45.7	40.1	42.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)