

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: P197659

Luminaire Tested: **TT-C2-LED-E1-MQ-CG-LWR-LW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197659
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-MQ-CG-LWR-LW-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (168) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3574.3 lumens
Efficiency: N/A
Efficacy: 105.1 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

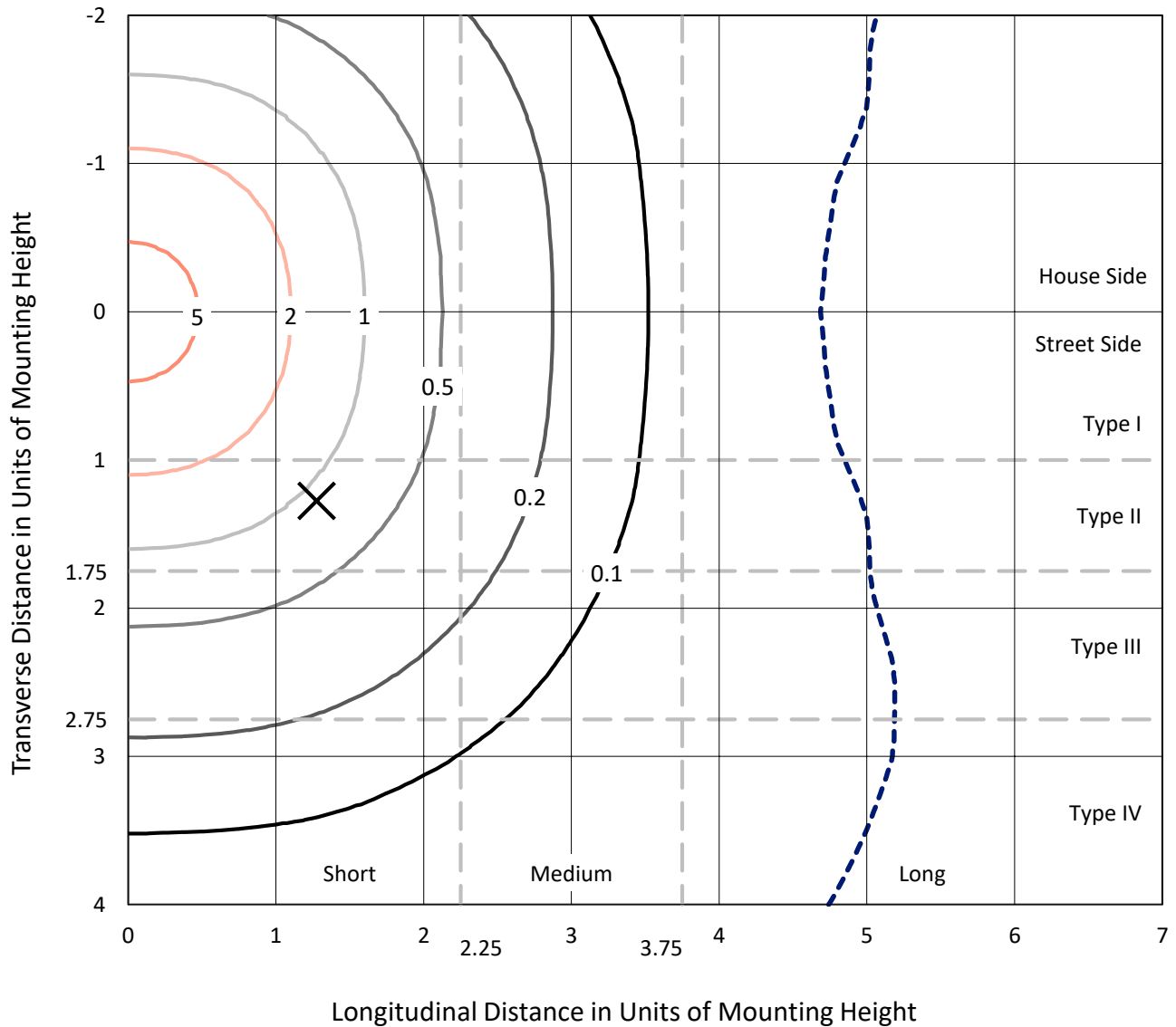


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

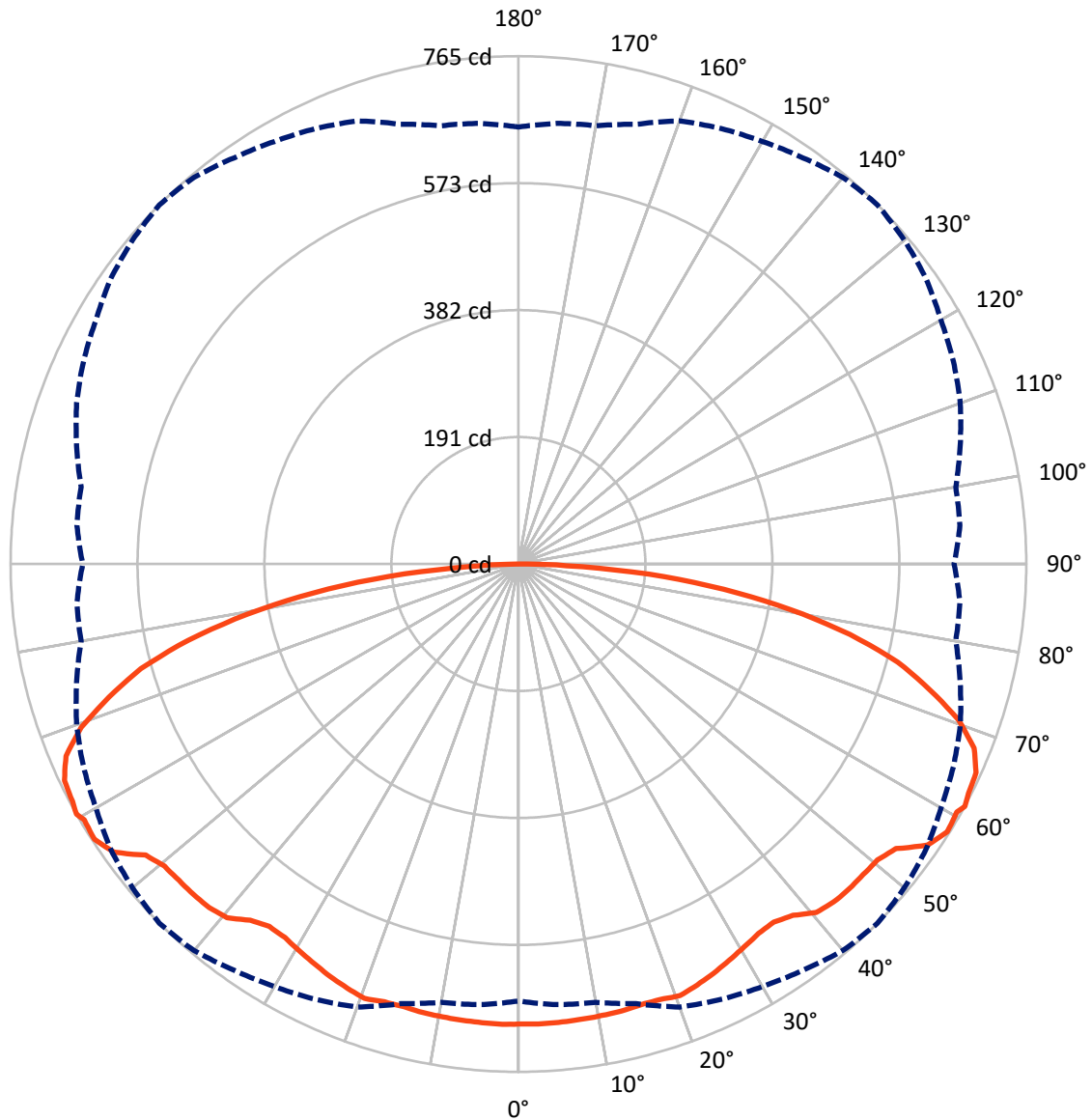


Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type V - Short - Semi-Cutoff

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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	1787.2	0.0	1787.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1787.2	0.0	1787.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	3574.3	0.0	3574.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.1	1.8
10°-20°	195.3	5.5
20°-30°	314.3	8.8
30°-40°	416.3	11.6
40°-50°	525.7	14.7
50°-60°	629.9	17.6
60°-70°	688.8	19.3
70°-80°	551.4	15.4
80°-90°	186.6	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°	3574.3	100.0
0°-180°	3574.3	100.0



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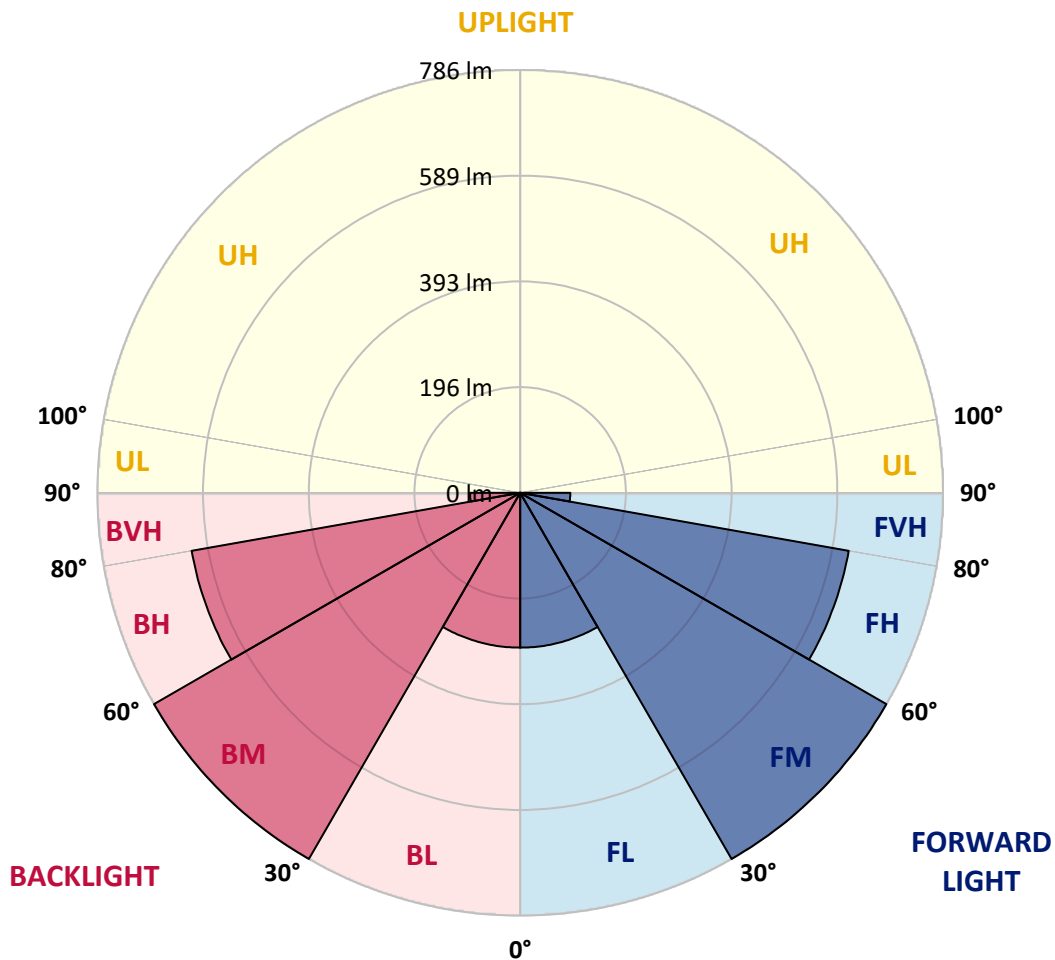
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	287.8	8.1			
FM	(30°-60°)	786.0	22.0			
FH	(60°-80°)	620.1	17.3			G0/660
FVH	(80°-90°)	93.3	2.6			G1/100
BL	(0°-30°)	287.8	8.1	B1/500		
BM	(30°-60°)	786.0	22.0	B1/1000		
BH	(60°-80°)	620.1	17.3	B2/1000		G0/660
BVH	(80°-90°)	93.3	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°	692.5	692.5	692.5	692.5	692.5	692.5	692.5	692.5	692.5	692.5	692.5
2.5°	693.1	692.5	693.1	693.1	693.1	693.1	693.1	693.1	693.1	693.1	693.1
5°	692.5	692.5	692.5	692.5	692.5	692.5	692.5	692.5	692.5	692.5	692.5
7.5°	691.9	691.9	691.9	691.9	691.9	691.9	691.9	691.9	692.5	691.9	692.5
10°	690.5	690.5	690.5	690.5	691.2	691.2	691.2	691.2	691.2	691.2	691.2
12.5°	689.2	689.2	689.2	689.2	689.9	689.9	689.9	689.9	690.5	690.5	689.9
15°	687.8	687.2	687.2	687.8	687.8	688.5	688.5	688.5	689.2	688.5	688.5
17.5°	686.5	685.8	686.5	687.2	687.2	687.8	688.5	688.5	689.2	689.2	689.2
20°	688.5	687.8	688.5	689.2	689.9	691.2	691.9	692.5	693.1	693.8	693.8
22.5°	684.5	683.8	684.5	684.5	685.2	685.8	687.2	687.8	688.5	688.5	688.5
25°	678.5	678.5	679.2	679.2	679.9	680.5	681.2	681.9	681.9	682.5	681.9
27.5°	671.9	671.9	672.6	672.6	673.9	673.9	674.6	675.2	675.8	675.8	675.8
30°	663.9	663.9	664.6	665.2	666.5	667.2	667.8	668.5	669.2	669.2	669.2
32.5°	656.6	655.9	656.6	657.8	659.9	661.2	662.6	663.2	663.2	663.2	663.9
35°	650.5	651.2	652.6	653.9	656.6	657.8	659.2	661.2	661.9	661.9	661.9
37.5°	651.9	652.6	654.6	657.2	660.5	664.6	667.2	669.9	671.9	671.2	670.5
40°	660.5	661.9	665.2	669.2	674.6	679.9	683.8	687.2	689.2	689.9	689.2
42.5°	661.9	663.2	665.8	671.9	677.8	683.8	689.2	692.5	695.1	695.8	695.1
45°	661.2	661.2	665.2	671.9	677.8	683.8	690.5	695.1	697.8	697.8	697.8
47.5°	656.6	658.5	661.2	667.8	675.8	681.9	688.5	693.1	696.5	698.5	696.5
50°	656.6	656.6	661.2	665.8	673.2	683.8	693.1	697.8	701.2	700.5	701.2
52.5°	655.2	659.2	661.9	668.5	681.9	692.5	699.9	706.5	711.1	711.8	710.5
55°	667.2	667.8	673.9	686.5	699.2	711.1	724.5	734.5	742.4	747.1	740.4
57.5°	676.5	673.2	685.2	695.8	710.5	728.5	748.4	756.4	762.4	761.1	763.1
60°	663.9	668.5	677.2	688.5	711.8	729.8	740.4	749.1	756.4	758.4	755.8
61°	657.8	665.8	669.9	685.2	709.8	723.1	734.5	746.5	759.7	764.5	758.4
62.5°	647.9	660.5	659.2	683.8	699.2	714.5	735.8	749.8	759.1	760.4	759.1
65°	648.5	646.6	661.9	679.9	695.1	722.4	740.4	749.1	754.5	757.1	755.8
67.5°	627.3	620.6	639.2	651.9	677.8	699.2	716.5	729.1	737.2	739.8	736.5
70°	578.0	582.7	595.9	615.3	636.6	662.6	678.5	695.1	701.9	702.5	702.5
72.5°	530.7	533.4	546.7	564.7	589.3	611.9	627.9	641.2	647.3	647.9	649.2
75°	468.1	470.8	486.1	502.7	527.4	546.7	558.0	574.0	582.7	590.0	584.0
77.5°	395.5	400.2	412.1	430.2	452.8	463.5	483.5	502.1	508.1	510.1	508.1
80°	313.6	319.6	330.3	354.3	364.2	381.6	400.9	408.9	414.1	415.5	416.2
82.5°	225.7	230.4	241.7	258.3	269.7	283.7	297.0	307.0	312.9	311.7	311.0
85°	133.1	134.5	146.5	157.8	166.5	175.2	185.7	193.1	194.5	197.1	196.4
87.5°	40.0	40.7	46.0	51.9	55.9	59.9	66.6	75.3	77.2	71.9	72.6
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°	692.5	692.5	692.5	692.5	692.5	692.5	692.5	692.5
2.5°	693.1	693.1	693.1	693.1	693.1	693.1	692.5	693.1
5°	692.5	692.5	692.5	692.5	692.5	692.5	692.5	692.5
7.5°	692.5	691.9	691.9	691.9	691.9	691.9	691.9	691.9
10°	691.2	691.2	691.2	691.2	690.5	690.5	690.5	690.5
12.5°	689.9	689.9	689.9	689.9	689.2	689.2	689.2	689.2
15°	688.5	688.5	688.5	688.5	687.8	687.8	687.8	687.8
17.5°	689.2	688.5	687.8	687.8	687.2	686.5	686.5	686.5
20°	693.1	692.5	691.2	689.9	689.2	688.5	688.5	688.5
22.5°	687.8	687.2	685.8	685.2	685.2	684.5	683.8	683.8
25°	681.9	680.5	680.5	679.9	679.9	678.5	678.5	677.8
27.5°	675.2	674.6	673.9	673.2	673.2	672.6	671.9	671.2
30°	669.2	667.8	666.5	665.8	665.2	664.6	664.6	664.6
32.5°	663.2	661.9	661.2	659.2	657.8	657.2	656.6	656.6
35°	661.2	659.2	657.8	655.9	653.9	652.6	651.9	650.5
37.5°	669.2	666.5	664.6	661.2	656.6	654.6	652.6	651.9
40°	686.5	683.8	679.9	674.6	669.2	665.2	661.9	660.5
42.5°	692.5	689.2	683.8	678.5	671.9	665.8	663.2	661.9
45°	694.5	691.2	683.8	677.2	671.2	665.8	661.9	660.5
47.5°	692.5	687.8	681.2	675.8	667.2	660.5	657.8	655.9
50°	697.2	693.1	684.5	672.6	665.2	661.2	656.6	655.9
52.5°	706.5	699.2	691.2	682.5	668.5	660.5	657.8	654.6
55°	734.5	724.5	710.5	696.5	687.8	675.2	667.2	667.2
57.5°	755.8	747.7	729.8	711.1	695.1	685.8	673.9	674.6
60°	749.8	739.1	730.4	711.8	689.2	676.5	671.9	663.2
61°	749.1	734.5	722.4	707.8	688.5	668.5	667.2	655.9
62.5°	750.4	737.2	714.5	699.2	684.5	658.5	657.8	647.3
65°	749.1	736.5	725.1	696.5	676.5	665.8	643.2	651.9
67.5°	728.5	717.2	696.5	680.5	649.9	636.6	623.9	623.9
70°	695.8	679.2	659.2	639.2	618.6	595.9	584.6	578.0
72.5°	641.2	627.3	611.3	590.0	564.7	544.0	533.4	528.7
75°	572.7	557.3	543.3	527.4	500.8	483.5	472.1	468.8
77.5°	500.8	487.4	462.8	447.5	429.5	409.5	399.5	395.5
80°	408.9	401.5	384.2	359.5	350.9	326.3	319.6	313.6
82.5°	307.0	299.0	283.0	265.7	255.0	241.0	229.1	227.7
85°	193.1	187.8	177.8	165.2	151.8	143.8	133.1	135.8
87.5°	71.9	68.5	62.6	54.6	48.6	43.3	38.0	40.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)