

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: P197660

Luminaire Tested: **TT-C2-LED-E1-MQ-CG-LWR-LW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197660
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-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (168) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3493.3 lumens
Efficiency: N/A
Efficacy: 102.7 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

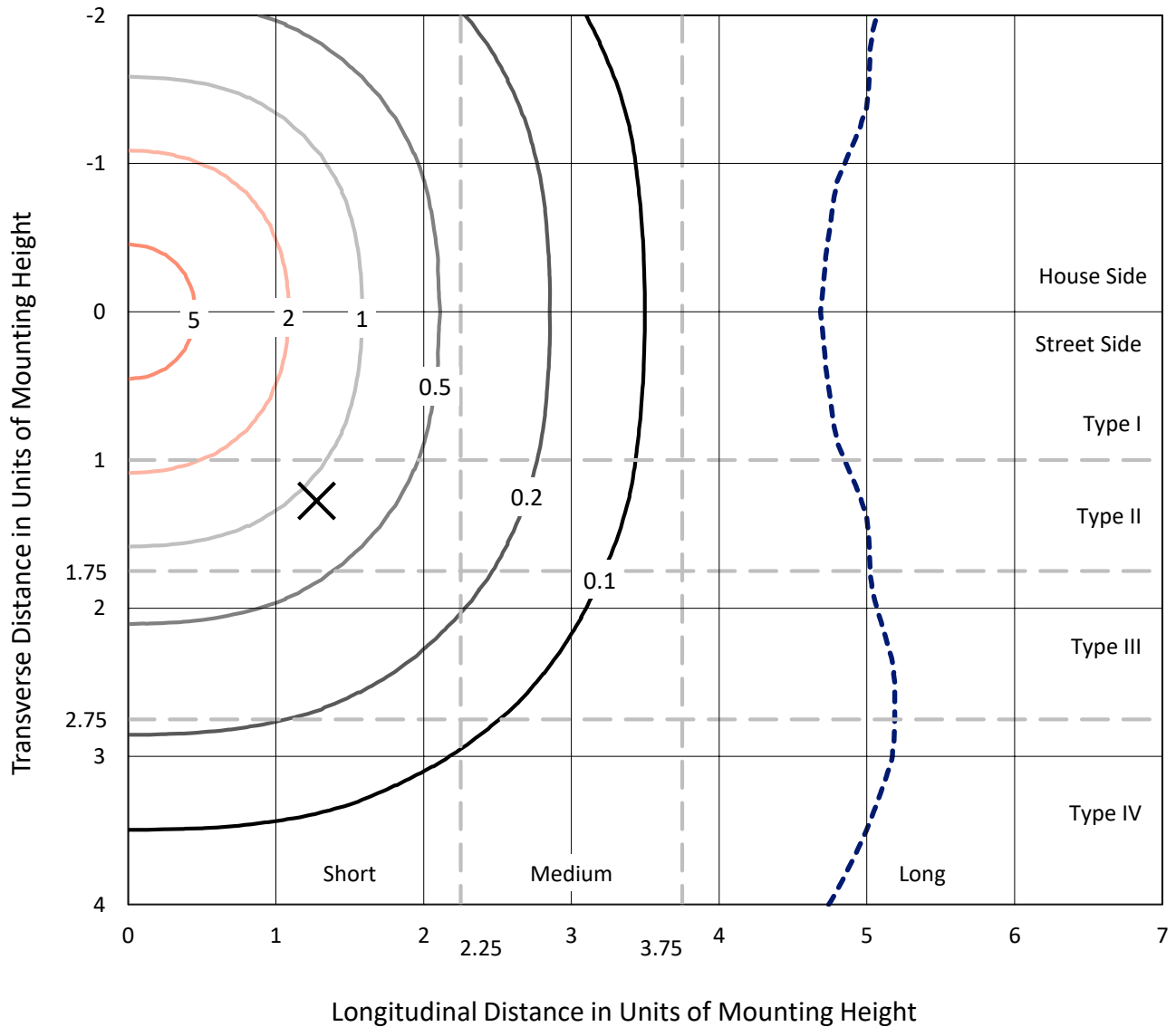


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

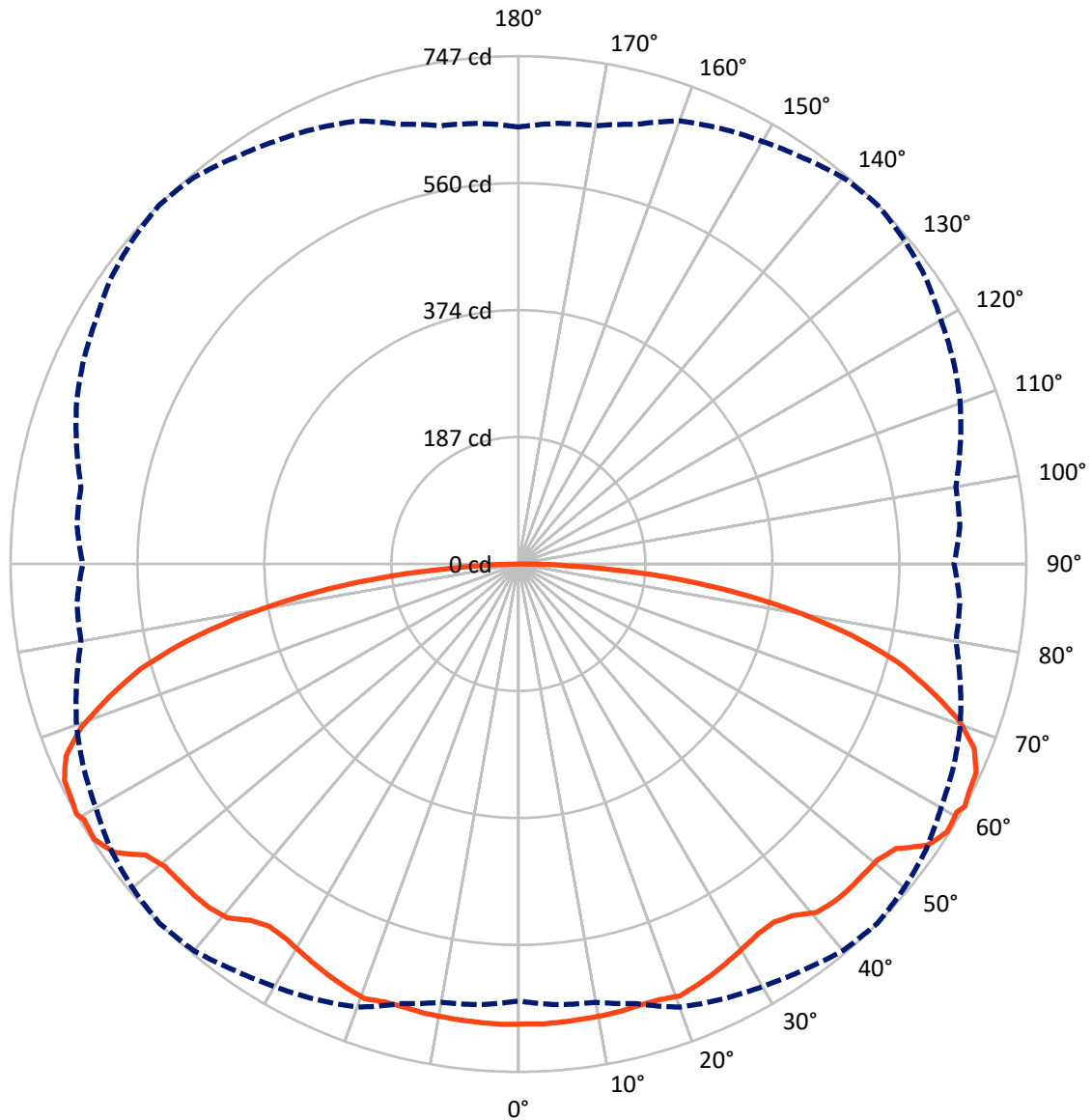


Based on 10 foot mounting height. Maximum calculated value = 6.8 fc
 Type V - Short - Semi-Cutoff

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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	1746.6	0.0	1746.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1746.6	0.0	1746.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	3493.3	0.0	3493.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.6	1.8
10°-20°	190.9	5.5
20°-30°	307.1	8.8
30°-40°	406.9	11.6
40°-50°	513.8	14.7
50°-60°	615.6	17.6
60°-70°	673.2	19.3
70°-80°	538.9	15.4
80°-90°	182.3	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°	3493.3	100.0
0°-180°	3493.3	100.0



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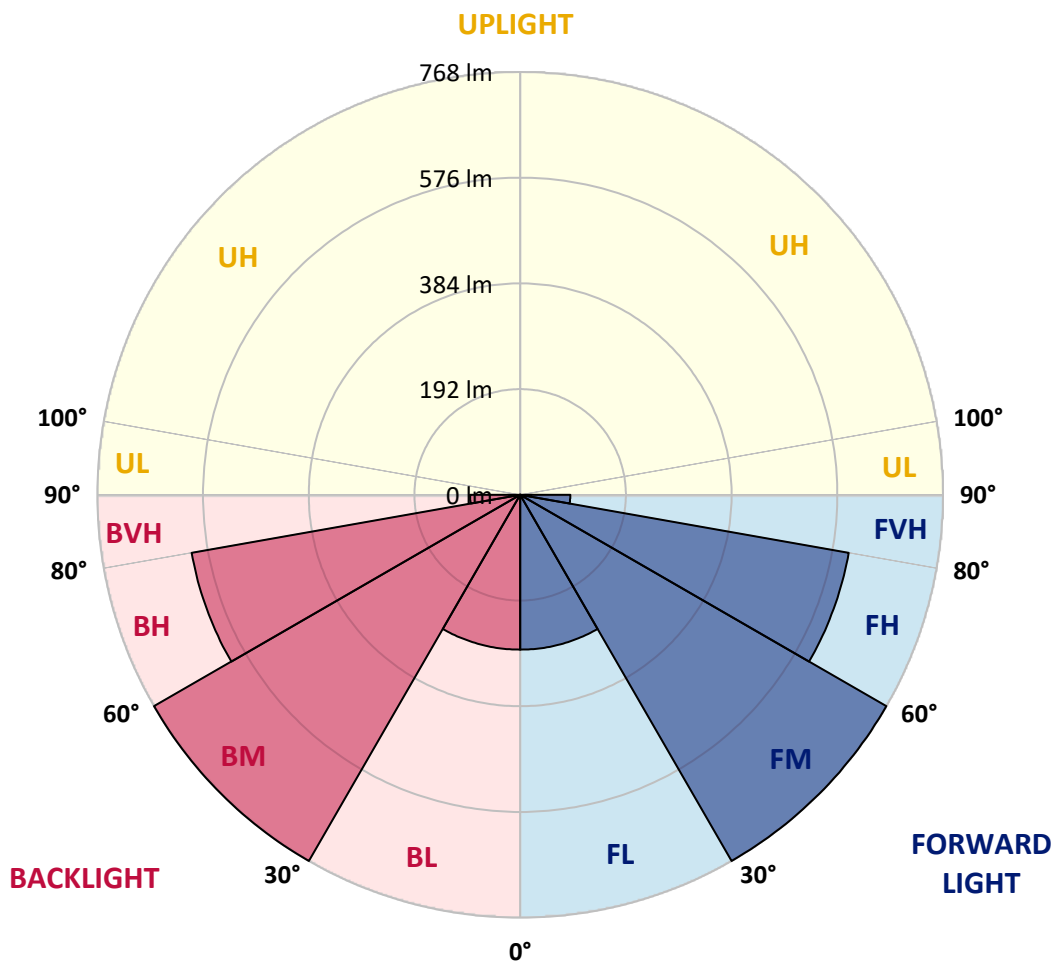
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	281.3	8.1			
FM	(30°-60°)	768.2	22.0			
FH	(60°-80°)	606.0	17.3			G0/660
FVH	(80°-90°)	91.2	2.6			G1/100
BL	(0°-30°)	281.3	8.1	B1/500		
BM	(30°-60°)	768.2	22.0	B1/1000		
BH	(60°-80°)	606.0	17.3	B2/1000		G0/660
BVH	(80°-90°)	91.2	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°	676.8	676.8	676.8	676.8	676.8	676.8	676.8	676.8	676.8	676.8	676.8
2.5°	677.4	676.8	677.4	677.4	677.4	677.4	677.4	677.4	677.4	677.4	677.4
5°	676.8	676.8	676.8	676.8	676.8	676.8	676.8	676.8	676.8	676.8	676.8
7.5°	676.2	676.2	676.2	676.2	676.2	676.2	676.2	676.2	676.8	676.2	676.8
10°	674.9	674.9	674.9	674.9	675.5	675.5	675.5	675.5	675.5	675.5	675.5
12.5°	673.6	673.6	673.6	673.6	674.2	674.2	674.2	674.2	674.9	674.9	674.2
15°	672.2	671.6	671.6	672.2	672.2	672.9	672.9	672.9	673.6	672.9	672.9
17.5°	670.9	670.3	670.9	671.6	671.6	672.2	672.9	672.9	673.6	673.6	673.6
20°	672.9	672.2	672.9	673.6	674.2	675.5	676.2	676.8	677.4	678.1	678.1
22.5°	669.0	668.3	669.0	669.0	669.6	670.3	671.6	672.2	672.9	672.9	672.9
25°	663.1	663.1	663.8	663.8	664.4	665.1	665.8	666.4	666.4	667.1	666.4
27.5°	656.6	656.6	657.3	657.3	658.6	658.6	659.3	659.8	660.5	660.5	660.5
30°	648.8	648.8	649.5	650.2	651.4	652.0	652.7	653.4	654.0	654.0	654.0
32.5°	641.7	641.0	641.7	642.9	644.9	646.2	647.5	648.2	648.2	648.2	648.8
35°	635.8	636.4	637.8	639.1	641.7	642.9	644.2	646.2	646.9	646.9	646.9
37.5°	637.1	637.8	639.7	642.3	645.6	649.5	652.0	654.7	656.6	656.0	655.3
40°	645.6	646.9	650.2	654.0	659.3	664.4	668.3	671.6	673.6	674.2	673.6
42.5°	646.9	648.2	650.7	656.6	662.5	668.3	673.6	676.8	679.4	680.0	679.4
45°	646.2	646.2	650.2	656.6	662.5	668.3	674.9	679.4	682.0	682.0	682.0
47.5°	641.7	643.6	646.2	652.7	660.5	666.4	672.9	677.4	680.7	682.7	680.7
50°	641.7	641.7	646.2	650.7	658.0	668.3	677.4	682.0	685.3	684.6	685.3
52.5°	640.4	644.2	646.9	653.4	666.4	676.8	684.0	690.5	695.0	695.6	694.4
55°	652.0	652.7	658.6	670.9	683.3	695.0	708.0	717.8	725.6	730.2	723.6
57.5°	661.2	658.0	669.6	680.0	694.4	712.0	731.4	739.2	745.1	743.8	745.8
60°	648.8	653.4	661.8	672.9	695.6	713.2	723.6	732.1	739.2	741.2	738.7
61°	642.9	650.7	654.7	669.6	693.7	706.7	717.8	729.5	742.5	747.1	741.2
62.5°	633.2	645.6	644.2	668.3	683.3	698.3	719.1	732.7	741.9	743.2	741.9
65°	633.8	631.9	646.9	664.4	679.4	706.1	723.6	732.1	737.3	739.9	738.7
67.5°	613.0	606.5	624.7	637.1	662.5	683.3	700.2	712.6	720.4	723.0	719.8
70°	564.9	569.4	582.4	601.3	622.2	647.5	663.1	679.4	685.9	686.5	686.5
72.5°	518.6	521.3	534.3	551.9	575.9	598.0	613.7	626.7	632.6	633.2	634.5
75°	457.5	460.1	475.0	491.3	515.4	534.3	545.3	561.0	569.4	576.6	570.8
77.5°	386.5	391.1	402.8	420.4	442.5	452.9	472.5	490.7	496.5	498.5	496.5
80°	306.5	312.4	322.8	346.2	356.0	372.9	391.8	399.6	404.8	406.1	406.7
82.5°	220.6	225.2	236.2	252.5	263.5	277.3	290.2	300.0	305.8	304.6	303.9
85°	130.1	131.4	143.2	154.3	162.7	171.2	181.5	188.7	190.1	192.6	192.0
87.5°	39.1	39.7	44.9	50.7	54.7	58.5	65.1	73.6	75.5	70.3	70.9
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°	676.8	676.8	676.8	676.8	676.8	676.8	676.8	676.8
2.5°	677.4	677.4	677.4	677.4	677.4	677.4	676.8	677.4
5°	676.8	676.8	676.8	676.8	676.8	676.8	676.8	676.8
7.5°	676.8	676.2	676.2	676.2	676.2	676.2	676.2	676.2
10°	675.5	675.5	675.5	675.5	674.9	674.9	674.9	674.9
12.5°	674.2	674.2	674.2	674.2	673.6	673.6	673.6	673.6
15°	672.9	672.9	672.9	672.9	672.2	672.2	672.2	672.2
17.5°	673.6	672.9	672.2	672.2	671.6	670.9	670.9	670.9
20°	677.4	676.8	675.5	674.2	673.6	672.9	672.9	672.9
22.5°	672.2	671.6	670.3	669.6	669.6	669.0	668.3	668.3
25°	666.4	665.1	665.1	664.4	664.4	663.1	663.1	662.5
27.5°	659.8	659.3	658.6	658.0	658.0	657.3	656.6	656.0
30°	654.0	652.7	651.4	650.7	650.2	649.5	649.5	649.5
32.5°	648.2	646.9	646.2	644.2	642.9	642.3	641.7	641.7
35°	646.2	644.2	642.9	641.0	639.1	637.8	637.1	635.8
37.5°	654.0	651.4	649.5	646.2	641.7	639.7	637.8	637.1
40°	670.9	668.3	664.4	659.3	654.0	650.2	646.9	645.6
42.5°	676.8	673.6	668.3	663.1	656.6	650.7	648.2	646.9
45°	678.7	675.5	668.3	661.8	656.0	650.7	646.9	645.6
47.5°	676.8	672.2	665.8	660.5	652.0	645.6	642.9	641.0
50°	681.4	677.4	669.0	657.3	650.2	646.2	641.7	641.0
52.5°	690.5	683.3	675.5	667.1	653.4	645.6	642.9	639.7
55°	717.8	708.0	694.4	680.7	672.2	659.8	652.0	652.0
57.5°	738.7	730.8	713.2	695.0	679.4	670.3	658.6	659.3
60°	732.7	722.3	713.9	695.6	673.6	661.2	656.6	648.2
61°	732.1	717.8	706.1	691.8	672.9	653.4	652.0	641.0
62.5°	733.4	720.4	698.3	683.3	669.0	643.6	642.9	632.6
65°	732.1	719.8	708.7	680.7	661.2	650.7	628.6	637.1
67.5°	712.0	700.9	680.7	665.1	635.1	622.2	609.8	609.8
70°	680.0	663.8	644.2	624.7	604.6	582.4	571.3	564.9
72.5°	626.7	613.0	597.4	576.6	551.9	531.7	521.3	516.7
75°	559.7	544.7	531.0	515.4	489.4	472.5	461.4	458.1
77.5°	489.4	476.3	452.3	437.3	419.8	400.2	390.5	386.5
80°	399.6	392.4	375.5	351.4	342.9	318.9	312.4	306.5
82.5°	300.0	292.2	276.6	259.7	249.3	235.5	223.9	222.6
85°	188.7	183.5	173.7	161.4	148.4	140.6	130.1	132.8
87.5°	70.3	67.0	61.2	53.4	47.5	42.3	37.1	39.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)