

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: P197728

Luminaire Tested: **TT-C1-LED-E1-5WQ-PM-LWR-LW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115483)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C1-LED-E1-5WQ-PM-LWR-LW-7060
Description: TOPTIER LED AREA/SITE LUMINAIRE
WIDE DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (168) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3064.2 lumens
Efficiency: N/A
Efficacy: 109.4 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): 28
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

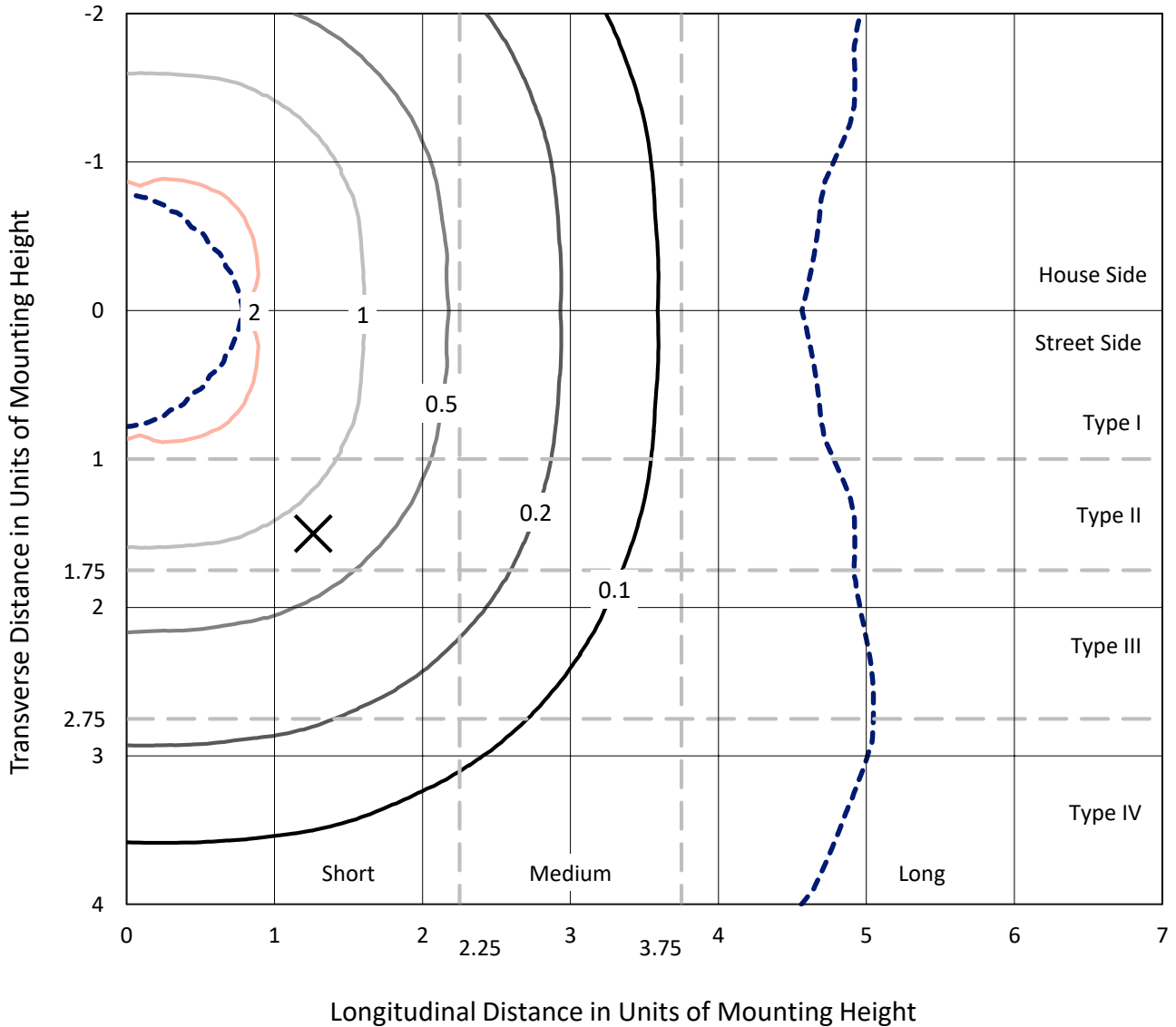


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Iso-Footcandle Lines of Horizontal Illumination

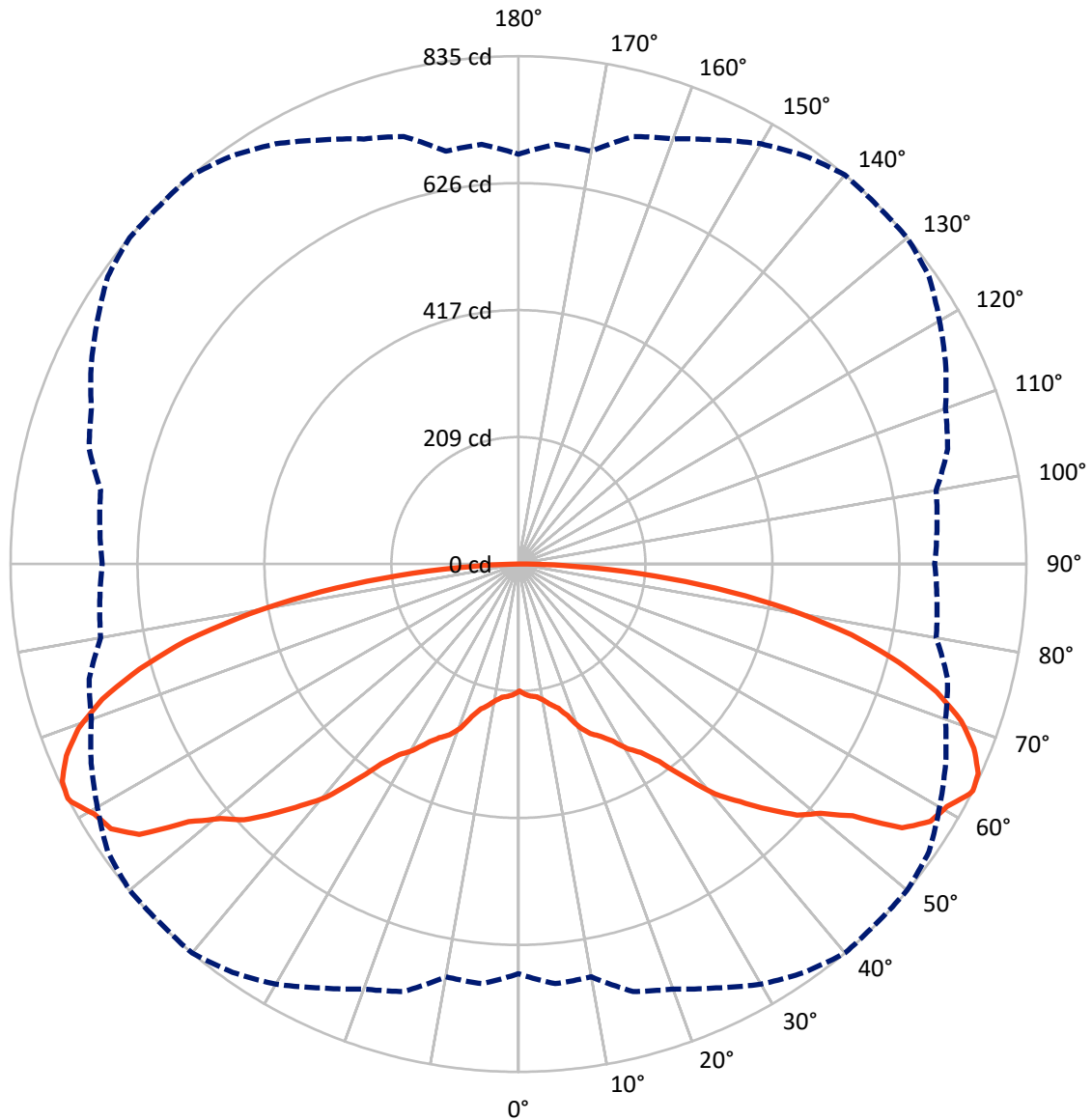
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1532.1	0.0	1532.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1532.1	0.0	1532.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	3064.2	0.0	3064.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.0	0.7
10°-20°	71.6	2.3
20°-30°	145.5	4.7
30°-40°	250.8	8.2
40°-50°	422.5	13.8
50°-60°	622.2	20.3
60°-70°	739.9	24.1
70°-80°	599.0	19.5
80°-90°	191.6	6.3
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°	3064.2	100.0
0°-180°	3064.2	100.0

Coefficient of Utilization



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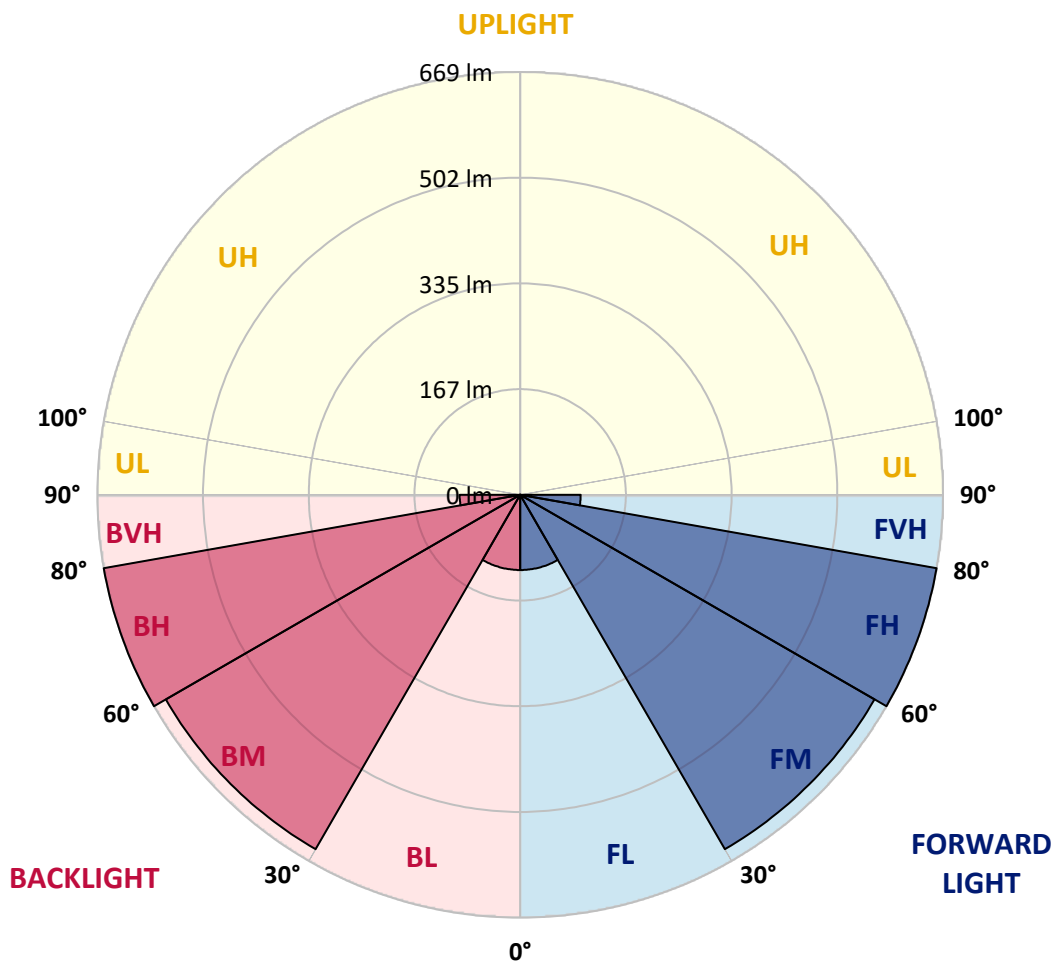
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	119.1	3.9			
FM (30°-60°)	647.8	21.1			
FH (60°-80°)	669.4	21.8			G1/1800
FVH (80°-90°)	95.8	3.1			G1/100
BL (0°-30°)	119.1	3.9	B1/500		
BM (30°-60°)	647.8	21.1	B1/1000		
BH (60°-80°)	669.4	21.8	B2/1000		G1/1800
BVH (80°-90°)	95.8	3.1			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°	208.6	208.6	208.6	208.6	208.6	208.6	208.6	208.6	208.6	208.6	208.6
2.5°	215.2	215.2	215.2	215.2	215.2	215.2	214.5	215.2	214.5	214.5	214.5
5°	219.3	219.3	219.3	219.3	218.7	218.7	218.1	218.1	218.1	217.5	218.1
7.5°	221.1	221.1	221.1	221.1	220.5	220.5	220.5	220.5	220.5	220.5	220.5
10°	225.2	225.2	225.8	226.4	227.6	227.6	227.6	228.2	227.6	227.6	227.6
12.5°	234.1	233.5	234.7	235.9	237.1	237.7	237.7	237.7	237.1	237.1	237.7
15°	246.6	245.3	246.0	246.6	247.2	247.7	247.7	247.2	246.0	246.0	246.0
17.5°	262.5	260.8	260.2	259.6	259.6	260.8	262.0	261.4	262.0	261.4	262.0
20°	281.6	280.3	280.3	280.3	280.9	283.3	285.7	286.9	286.3	285.1	286.9
22.5°	293.9	294.6	297.5	296.9	296.3	298.7	301.7	304.1	302.8	301.1	302.3
25°	307.6	307.6	311.7	313.5	311.7	311.7	313.0	314.7	313.5	312.4	313.5
27.5°	323.0	323.0	324.8	326.6	325.4	325.4	327.2	330.2	329.5	328.9	329.5
30°	341.4	339.0	337.2	340.2	343.2	343.8	345.5	350.3	351.4	350.9	352.1
32.5°	358.6	355.0	356.2	358.0	364.5	366.9	366.3	369.9	369.2	367.5	369.9
35°	375.2	379.3	381.7	385.2	387.6	390.6	390.6	397.1	398.3	396.5	398.3
37.5°	407.2	408.9	415.5	416.1	419.1	430.3	431.5	440.4	445.1	442.7	443.3
40°	451.0	450.5	455.2	462.3	468.2	482.4	486.6	492.5	496.7	494.9	497.2
42.5°	486.6	481.9	485.4	500.8	507.4	518.0	523.3	526.3	534.0	531.6	534.6
45°	512.1	513.9	518.6	534.0	538.2	547.1	559.5	564.9	574.9	571.9	573.7
47.5°	537.0	545.3	549.4	556.6	569.6	581.4	596.8	602.2	616.4	615.2	613.5
50°	569.6	576.1	580.8	586.1	604.0	623.5	636.6	638.9	643.6	640.1	646.0
52.5°	604.6	604.0	608.1	622.9	647.8	655.5	666.8	677.4	687.5	691.1	687.5
55°	650.8	636.0	653.2	674.5	685.2	703.5	730.8	745.6	765.2	768.2	762.2
57.5°	669.7	669.7	687.5	700.0	719.6	752.1	781.2	788.3	798.3	793.0	799.0
60°	667.4	689.9	689.9	711.8	743.8	772.9	783.5	795.4	809.0	808.5	808.5
62.5°	670.4	692.2	686.3	724.3	743.8	767.5	791.3	813.2	832.1	831.6	831.0
63°	673.3	692.2	688.7	727.2	743.2	768.7	797.2	819.1	834.5	833.3	833.9
65°	682.2	676.9	698.2	722.5	740.8	778.8	802.5	819.7	830.4	829.8	829.8
67.5°	665.6	653.2	683.3	692.9	727.9	761.6	780.0	799.6	807.2	807.2	806.1
70°	614.6	619.9	640.7	656.1	691.7	721.9	737.3	762.2	771.7	771.7	771.1
72.5°	563.0	571.9	586.1	608.1	641.9	665.6	684.0	706.5	718.9	718.3	718.3
75°	497.2	505.5	522.2	542.9	572.5	595.7	610.5	631.8	646.0	651.4	645.5
77.5°	423.2	425.5	441.0	462.3	488.4	504.4	526.9	547.7	559.5	558.9	557.1
80°	333.1	336.1	349.1	373.4	387.6	406.6	427.4	438.6	448.6	448.6	447.5
82.5°	230.0	236.5	249.5	265.5	280.3	296.9	308.2	319.4	327.8	327.2	325.4
85°	129.8	132.8	145.2	155.3	166.6	177.2	184.9	192.0	199.1	199.1	198.0
87.5°	39.1	35.0	42.1	46.2	52.2	57.5	61.1	68.1	72.9	67.5	67.5
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°	208.6	208.6	208.6	208.6	208.6	208.6	208.6	208.6
2.5°	215.2	215.2	215.2	215.2	215.2	215.2	215.2	215.2
5°	218.1	218.7	218.7	219.3	219.3	219.3	219.3	219.3
7.5°	220.5	220.5	220.5	220.5	221.1	221.1	221.1	221.1
10°	227.6	228.2	227.6	227.6	226.4	225.8	225.8	225.8
12.5°	237.7	238.3	238.3	237.1	235.9	234.7	234.1	233.5
15°	247.2	248.9	247.7	247.2	246.0	246.6	246.6	247.2
17.5°	262.0	262.5	260.8	259.6	259.0	260.2	261.4	262.0
20°	287.5	286.3	282.7	281.6	280.3	280.3	281.6	281.6
22.5°	303.5	300.5	298.1	296.9	296.9	296.9	295.2	292.8
25°	314.7	313.0	311.1	312.4	313.5	311.7	307.6	307.0
27.5°	330.2	326.6	326.0	325.4	326.0	324.8	324.2	321.8
30°	350.3	345.5	344.4	343.2	339.6	338.4	339.6	341.4
32.5°	369.2	366.3	367.5	365.1	358.6	356.2	357.4	356.8
35°	396.5	391.2	391.2	386.4	384.7	384.1	379.3	375.2
37.5°	439.8	432.7	430.9	420.2	415.5	416.7	410.2	405.4
40°	492.5	487.2	482.4	470.6	464.1	455.8	451.6	451.6
42.5°	527.5	523.9	517.4	509.1	502.0	487.8	482.4	485.4
45°	566.0	561.3	547.7	539.4	532.8	522.7	516.8	510.9
47.5°	605.2	598.6	582.6	571.9	556.6	553.6	547.1	538.8
50°	639.5	637.1	625.9	608.1	588.5	583.8	577.9	570.2
52.5°	681.6	667.4	657.9	650.2	628.3	612.9	604.6	608.1
55°	750.4	732.6	708.3	684.0	679.3	660.8	640.1	651.4
57.5°	790.1	780.0	761.6	723.1	704.1	691.7	678.0	668.0
60°	799.6	781.2	777.0	748.0	717.7	691.7	697.0	673.3
62.5°	817.9	793.0	769.9	746.8	728.4	692.9	691.7	679.3
63°	823.8	799.0	774.6	746.8	730.2	697.0	690.5	684.0
65°	822.7	801.3	782.9	746.8	721.9	708.8	676.9	691.7
67.5°	800.1	782.4	761.0	736.1	694.6	684.6	662.1	665.0
70°	764.0	740.8	720.7	697.6	664.4	641.3	627.7	616.4
72.5°	707.7	686.9	665.6	644.3	614.6	586.8	577.3	564.9
75°	633.0	612.9	593.3	573.2	545.3	520.4	510.3	501.4
77.5°	547.7	530.5	502.6	483.6	467.7	441.0	431.5	422.0
80°	436.8	428.5	408.3	383.5	375.2	349.1	342.0	329.5
82.5°	317.7	309.4	293.4	276.2	266.1	252.5	240.6	232.4
85°	193.8	184.9	176.6	161.2	155.3	145.2	135.7	131.0
87.5°	70.0	62.8	56.3	49.2	45.6	38.5	37.3	33.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)