

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P628899

Luminaire Tested: GWS-SA1A-750-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628899  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1A-750-U-RW-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

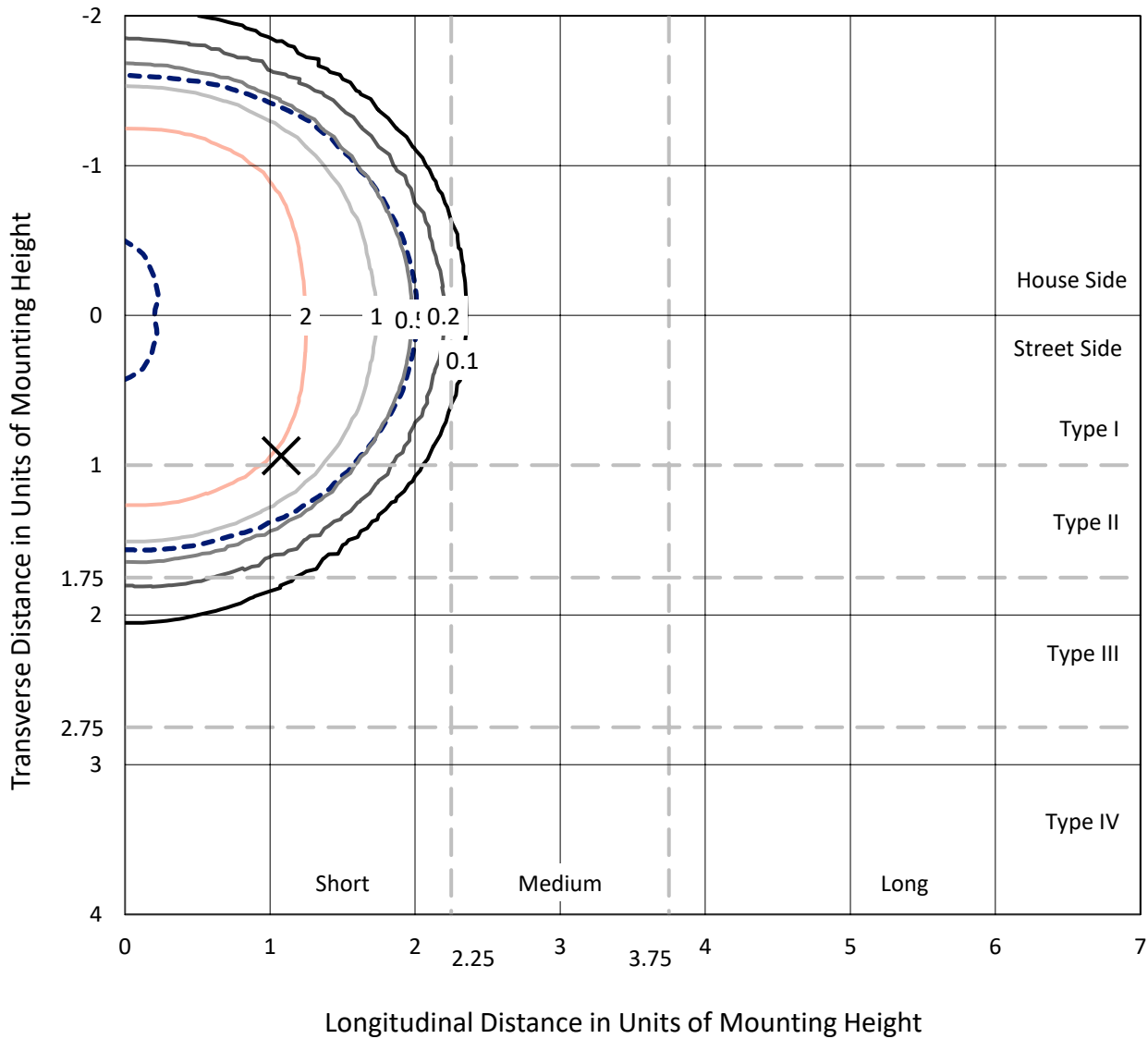
Lumens per Lamp: N/A  
Luminaire Lumens: 2564.3 lumens  
Efficiency: N/A  
Efficacy: 130.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

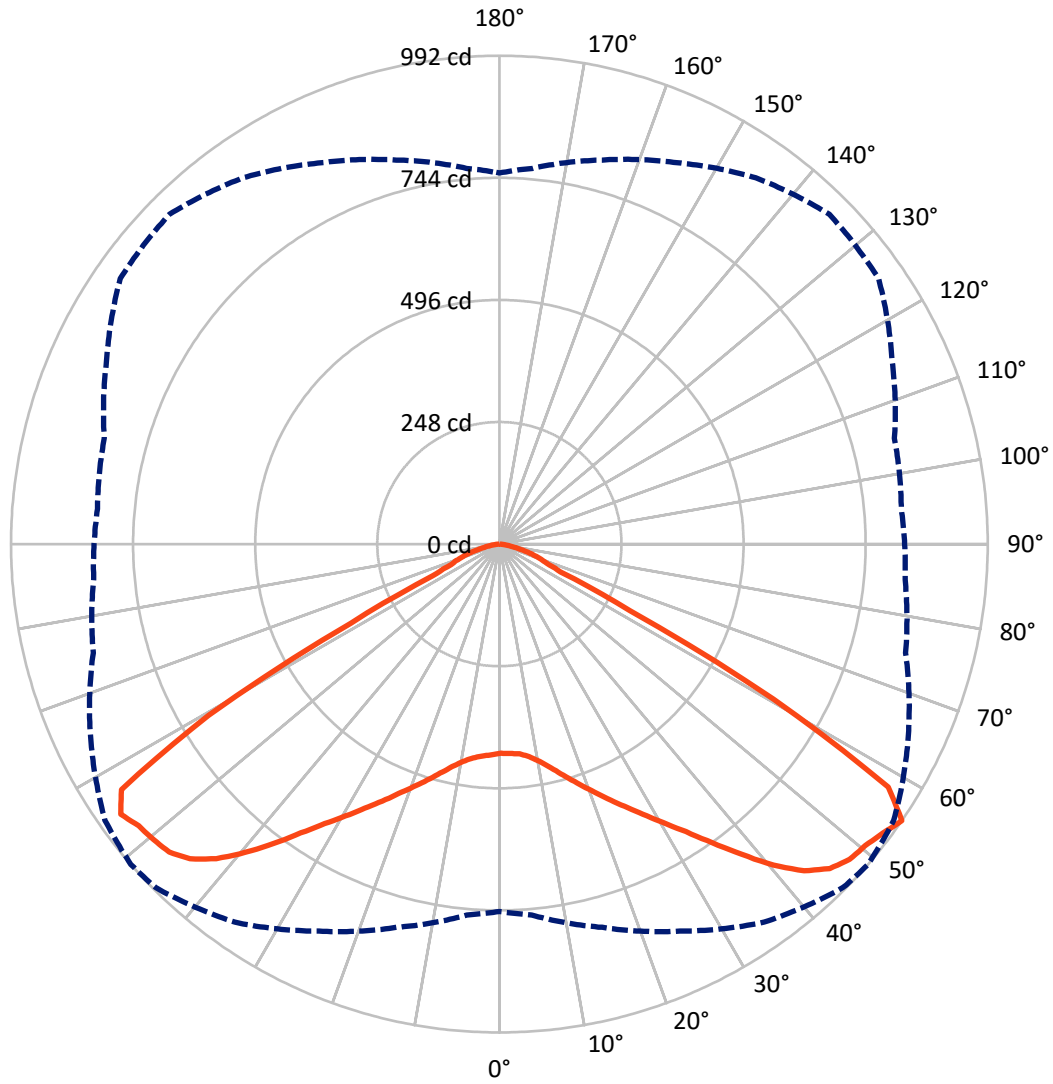
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1269.6	0.0	1269.6
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	1294.7	0.0	1294.7
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	2564.3	0.0	2564.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.4	1.6
10°-20°	136.7	5.3
20°-30°	260.3	10.2
30°-40°	441.3	17.2
40°-50°	664.2	25.9
50°-60°	727.0	28.4
60°-70°	229.9	9.0
70°-80°	55.2	2.2
80°-90°	8.3	0.3
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°	2564.3	100.0
0°-180°	2564.3	100.0

**Coefficient of Utilization**



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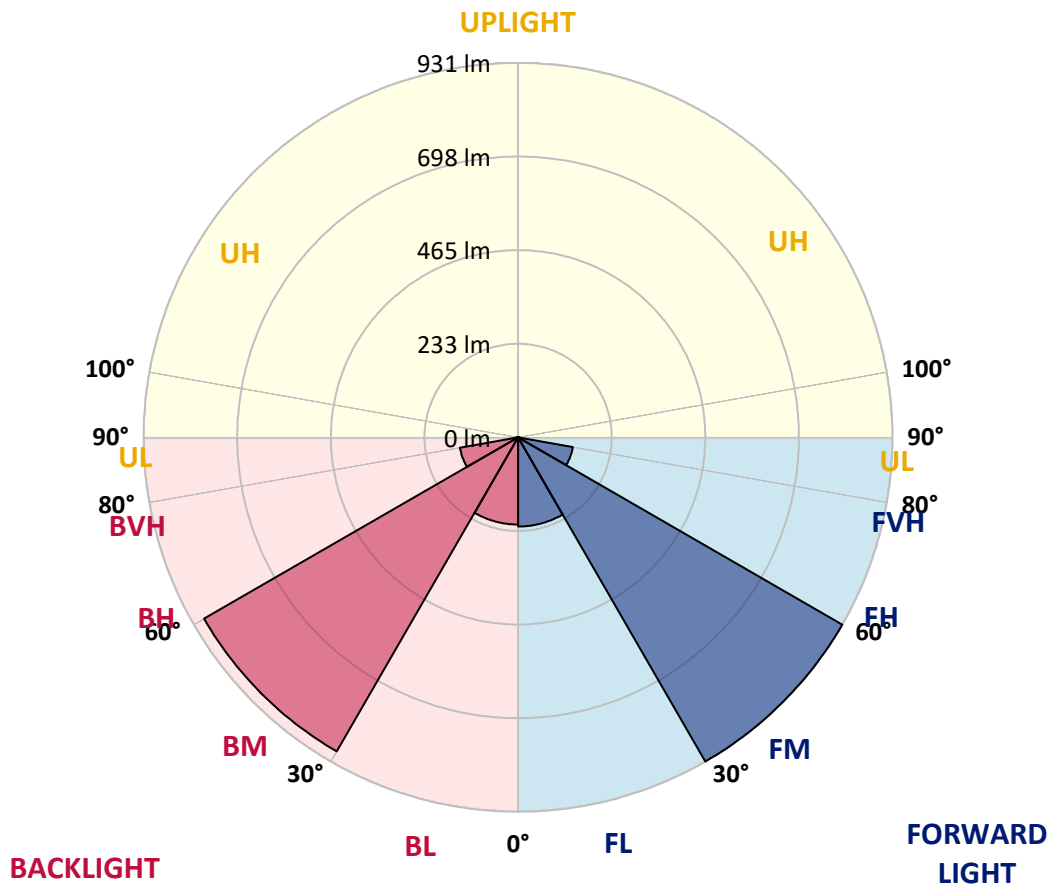
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	221.7	8.6			
FM (30°-60°)	930.9	36.3			
FH (60°-80°)	138.3	5.4			G0/660
FVH (80°-90°)	3.8	0.1			G0/10
BL (0°-30°)	216.8	8.5	B1/500		
BM (30°-60°)	901.6	35.2	B1/1000		
BH (60°-80°)	146.8	5.7	B1/500		G0/660
BVH (80°-90°)	4.4	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	424.8	424.8	424.8	424.8	424.8	424.8	424.8	424.8	424.8	424.8	424.8
2.5°	418.5	419.0	419.8	421.2	422.7	424.8	425.6	426.7	426.5	427.7	427.7
5°	416.5	417.1	418.3	420.4	422.9	426.9	427.9	430.4	432.9	436.1	437.1
7.5°	419.0	419.8	421.2	424.6	428.3	433.6	435.6	439.8	444.6	450.2	452.5
10°	423.7	424.8	427.3	432.7	438.8	446.7	448.6	453.8	461.5	469.2	473.8
12.5°	429.2	430.8	435.4	444.0	452.9	463.4	466.3	472.8	481.1	491.1	497.4
15°	435.4	436.9	444.0	456.1	470.0	483.8	487.1	493.4	502.8	512.6	521.3
17.5°	448.6	451.1	459.4	473.4	489.6	505.9	509.7	516.8	524.3	532.0	540.3
20°	466.5	468.6	479.2	496.5	515.7	530.5	534.3	540.5	544.1	548.0	555.1
22.5°	484.4	487.4	499.4	519.9	542.4	558.5	561.4	567.2	564.7	563.5	568.1
25°	506.7	510.7	522.6	544.9	567.8	587.7	590.0	595.0	590.8	584.3	584.1
27.5°	534.5	538.0	550.3	573.3	596.0	616.6	621.0	627.7	618.5	610.6	605.0
30°	567.4	569.7	583.3	607.7	631.0	650.6	656.3	662.9	656.1	642.9	637.3
32.5°	605.8	608.9	624.6	650.2	671.1	690.7	696.3	704.6	697.1	682.3	675.2
35°	651.9	655.0	671.5	699.4	720.7	740.9	744.9	751.8	742.4	725.3	719.7
37.5°	701.9	705.9	726.8	753.2	775.6	799.1	799.3	801.4	788.1	766.8	760.5
40°	758.2	763.5	784.3	811.8	838.7	857.9	857.7	851.9	829.4	796.4	786.8
42.5°	813.9	818.1	839.2	867.5	894.4	912.6	907.1	893.0	860.4	815.6	802.9
45°	854.2	857.3	879.4	911.3	938.6	949.9	940.1	923.0	879.0	827.7	808.9
47.5°	873.1	877.3	899.6	931.3	962.2	968.7	957.0	940.9	889.8	838.9	813.7
50°	862.9	868.4	893.6	923.0	957.8	971.2	962.8	946.8	901.3	850.0	822.3
52.5°	836.4	841.7	873.6	909.2	948.6	975.1	974.9	961.8	914.4	853.1	822.7
55°	745.9	756.2	805.8	867.3	937.4	986.8	991.8	977.8	916.5	854.0	827.1
57.5°	485.5	503.4	550.5	630.6	771.2	897.5	931.3	934.7	901.5	850.4	827.9
60°	202.7	217.1	254.4	307.6	423.7	574.1	639.6	705.3	784.5	813.3	820.2
62.5°	126.0	127.2	131.0	143.1	181.8	255.3	297.4	358.9	476.7	577.0	623.3
65°	113.7	114.3	115.1	114.3	116.2	125.1	136.4	157.9	205.8	255.7	314.9
67.5°	100.1	100.9	101.6	100.9	101.6	102.0	103.2	105.1	113.9	121.0	126.4
70°	80.9	82.2	83.2	82.8	85.3	85.3	86.5	88.0	92.4	97.6	101.3
72.5°	61.7	60.7	61.9	62.4	64.6	65.9	67.8	69.4	74.4	77.6	82.4
75°	40.0	39.0	40.9	41.9	45.0	46.7	48.4	50.0	53.6	55.7	60.3
77.5°	21.7	21.5	23.4	24.8	28.2	30.2	31.5	32.7	35.7	36.3	39.2
80°	12.5	12.5	13.8	14.8	16.9	19.2	20.4	21.5	23.6	24.2	25.4
82.5°	6.9	6.9	7.5	8.1	9.8	11.1	12.1	12.9	14.8	15.4	16.1
85°	3.3	3.1	3.5	4.0	4.6	5.2	5.8	6.3	7.7	8.1	9.0
87.5°	0.4	0.4	0.4	0.6	0.8	1.3	1.5	1.5	2.3	2.7	3.1
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	424.8	424.8	424.8	424.8	424.8	424.8	424.8	424.8	424.8	424.8	424.8
2.5°	429.0	426.3	427.9	428.5	428.5	427.9	425.2	424.4	423.1	421.2	421.2
5°	438.6	436.5	436.9	435.8	433.3	430.2	425.2	422.7	420.6	418.3	418.1
7.5°	455.0	452.3	451.9	447.9	441.3	434.6	427.1	422.5	419.4	416.5	416.2
10°	476.5	474.0	470.9	463.0	453.2	443.4	433.1	426.9	422.3	418.1	417.9
12.5°	500.5	497.6	491.7	480.1	467.8	458.2	446.5	436.9	430.0	424.4	423.3
15°	526.6	522.4	512.4	498.6	486.5	476.3	463.8	450.0	439.6	430.6	429.6
17.5°	546.6	541.2	530.3	517.4	507.4	497.2	480.9	463.6	448.6	437.3	435.6
20°	560.3	556.0	543.7	534.1	528.2	519.3	500.3	480.7	463.8	449.6	448.8
22.5°	573.1	567.8	555.8	550.1	550.1	544.1	525.9	502.8	483.0	466.5	464.4
25°	587.5	581.8	572.6	572.0	574.9	572.2	550.3	525.5	502.4	483.8	480.5
27.5°	607.5	601.2	595.8	599.5	603.7	600.8	576.4	547.6	523.2	504.5	501.5
30°	639.4	631.7	626.7	631.2	639.4	630.8	604.3	573.9	549.3	528.6	527.2
32.5°	676.5	667.7	662.5	669.8	677.1	663.8	637.5	608.3	582.4	560.8	558.3
35°	721.1	710.1	702.4	712.2	719.7	706.5	680.5	652.7	623.9	601.4	598.1
37.5°	760.7	747.4	742.2	756.0	766.0	757.4	729.0	703.0	671.5	646.9	645.4
40°	789.5	776.4	772.6	795.4	812.9	810.8	785.4	755.5	725.9	697.6	694.8
42.5°	802.0	792.9	793.7	824.4	851.5	864.8	842.1	810.2	781.6	752.2	750.3
45°	804.7	799.1	805.8	844.2	879.8	907.1	887.7	861.1	828.7	800.4	799.5
47.5°	807.7	804.5	814.8	855.4	897.8	929.5	918.6	891.1	858.3	830.6	828.5
50°	814.5	813.3	824.8	863.3	906.3	935.5	923.2	895.9	862.3	835.0	830.0
52.5°	816.6	814.5	831.0	875.7	920.5	935.3	908.8	873.1	839.4	808.9	803.7
55°	823.1	819.3	830.6	880.2	940.1	947.4	908.0	854.6	807.5	766.0	753.7
57.5°	824.8	820.6	827.9	872.7	918.8	912.4	798.1	689.6	600.8	554.7	559.9
60°	815.8	817.1	804.5	799.5	737.0	650.6	488.6	390.6	306.8	271.3	279.0
62.5°	621.0	626.2	583.5	507.4	390.2	309.3	204.6	158.9	134.5	128.3	129.3
65°	313.4	320.5	276.1	228.3	169.7	137.2	118.7	114.9	113.7	112.2	112.2
67.5°	124.1	126.2	124.5	116.6	108.4	105.5	104.7	104.3	102.8	102.0	102.2
70°	99.7	101.3	98.8	93.8	90.5	90.3	89.9	89.0	88.0	88.0	88.6
72.5°	81.3	83.0	79.5	76.3	73.8	71.9	70.9	70.3	68.8	68.8	69.4
75°	59.9	60.9	58.0	57.6	54.8	53.0	51.3	50.5	48.6	47.8	48.4
77.5°	39.8	39.6	38.2	38.2	37.1	34.8	32.9	31.1	28.6	26.9	27.3
80°	25.9	25.9	25.2	25.2	24.2	22.3	20.0	18.1	16.7	15.4	15.4
82.5°	16.5	16.3	16.1	15.8	15.4	13.6	11.9	10.6	9.6	8.8	9.0
85°	9.2	9.2	8.8	8.8	7.9	6.9	6.0	5.2	4.6	4.4	4.4
87.5°	3.1	3.1	2.9	2.9	2.5	1.9	1.5	1.3	1.0	0.8	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)