

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: P628789

Luminaire Tested: GWS-SA1A-735-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628789  
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-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2472.5 lumens  
Efficiency: N/A  
Efficacy: 125.5 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

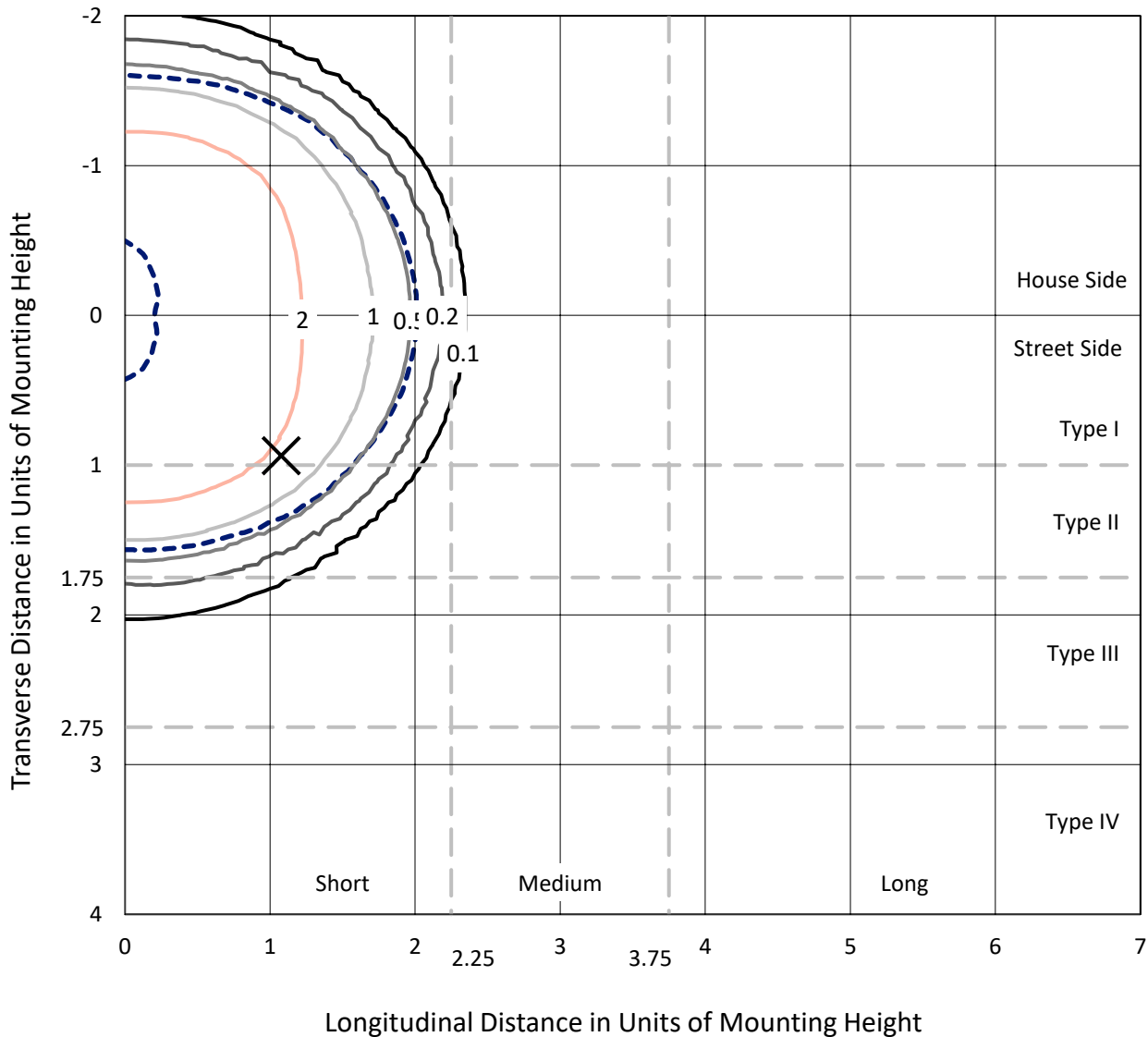


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### Iso-Footcandle Lines of Horizontal Illumination

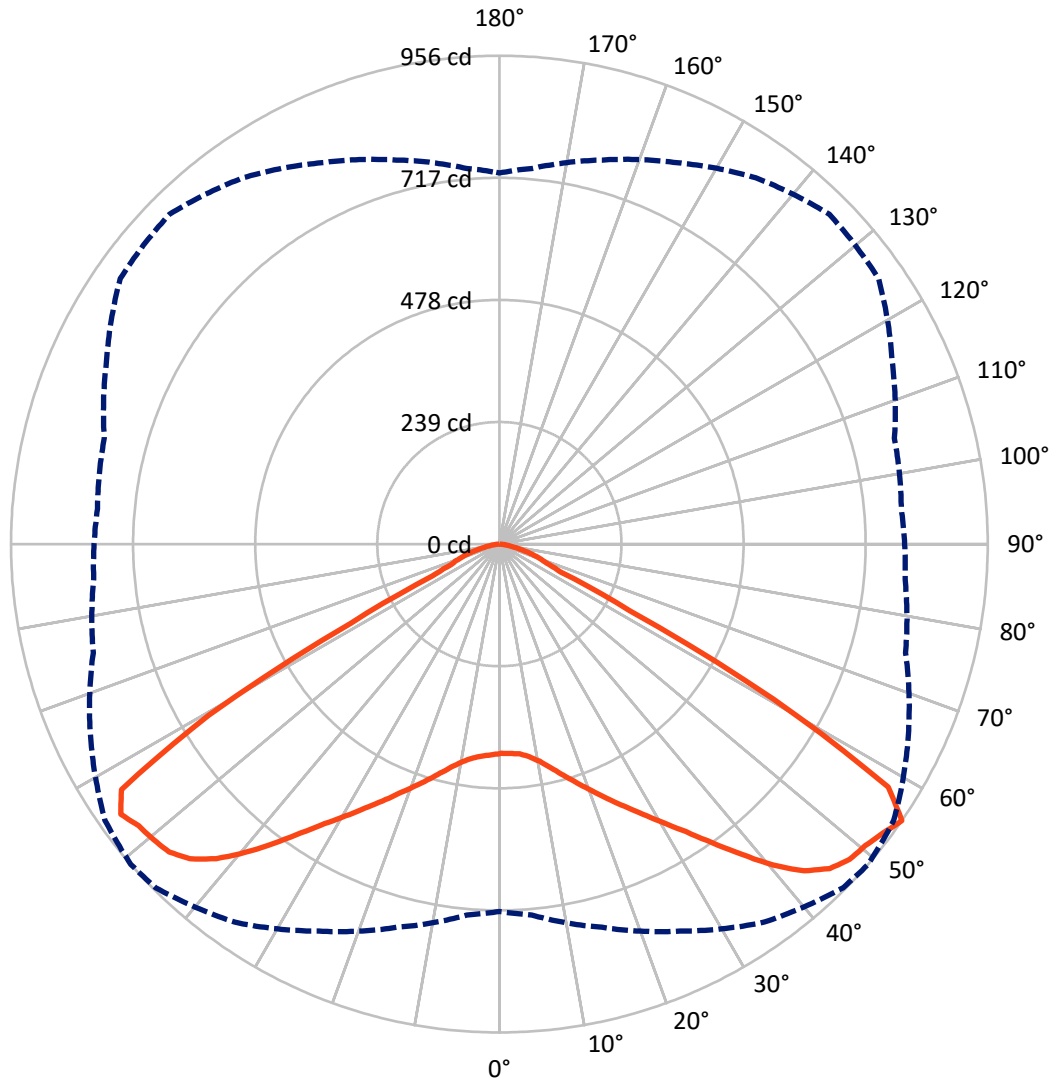
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.5 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	1224.1	0.0	1224.1
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	1248.4	0.0	1248.4
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	2472.5	0.0	2472.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.0	1.6
10°-20°	131.8	5.3
20°-30°	251.0	10.2
30°-40°	425.5	17.2
40°-50°	640.4	25.9
50°-60°	701.0	28.4
60°-70°	221.6	9.0
70°-80°	53.2	2.2
80°-90°	8.0	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°	2472.5	100.0
0°-180°	2472.5	100.0

**Coefficient of Utilization**



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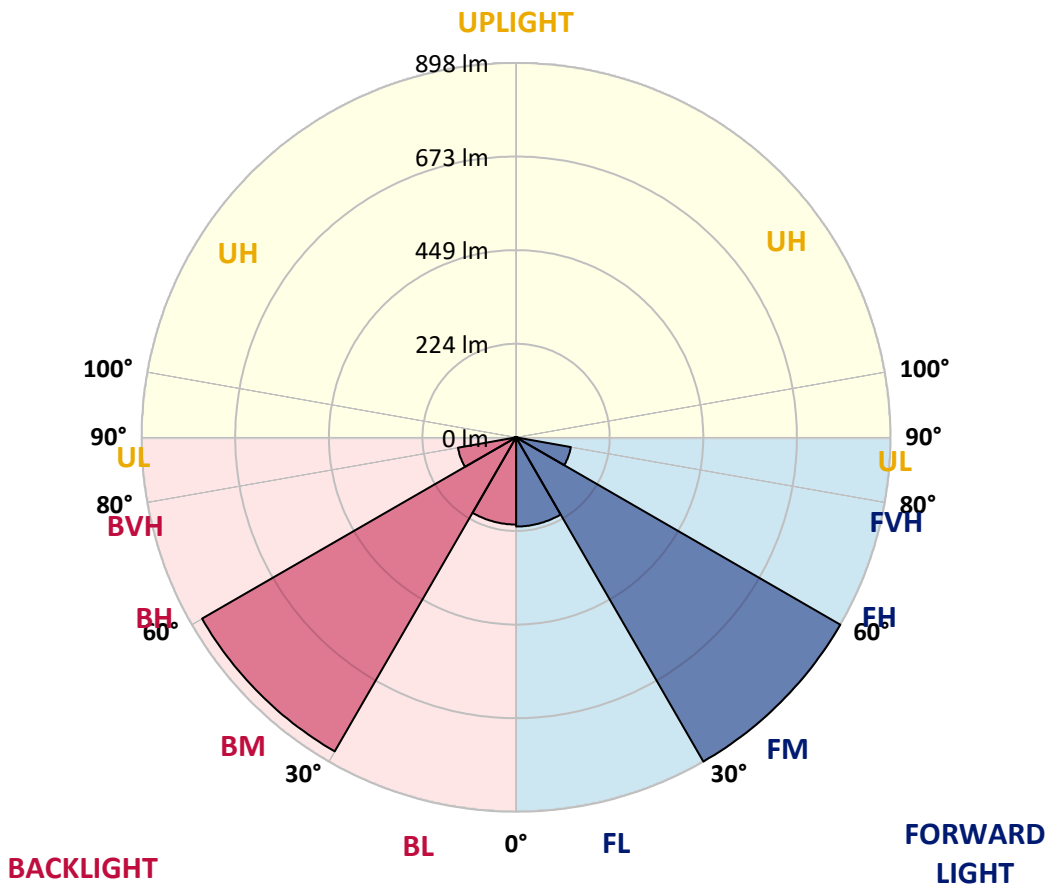
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	213.8	8.6			
FM (30°-60°)	897.6	36.3			
FH (60°-80°)	133.3	5.4			G0/660
FVH (80°-90°)	3.7	0.1			G0/10
BL (0°-30°)	209.0	8.5	B1/500		
BM (30°-60°)	869.3	35.2	B1/1000		
BH (60°-80°)	141.5	5.7	B1/500		G0/660
BVH (80°-90°)	4.3	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°	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6
2.5°	403.6	404.0	404.8	406.2	407.6	409.6	410.4	411.4	411.2	412.4	412.4
5°	401.5	402.1	403.4	405.4	407.8	411.6	412.6	415.0	417.4	420.4	421.4
7.5°	404.0	404.8	406.2	409.4	413.0	418.0	420.0	424.1	428.7	434.1	436.3
10°	408.6	409.6	412.0	417.2	423.1	430.7	432.5	437.5	445.0	452.4	456.8
12.5°	413.8	415.4	419.8	428.1	436.7	446.8	449.6	455.8	463.9	473.5	479.6
15°	419.8	421.2	428.1	439.7	453.2	466.5	469.7	475.7	484.8	494.2	502.7
17.5°	432.5	434.9	443.0	456.4	472.1	487.8	491.4	498.3	505.5	512.9	521.0
20°	449.8	451.8	462.1	478.8	497.3	511.5	515.1	521.2	524.6	528.4	535.3
22.5°	467.1	469.9	481.6	501.3	523.0	538.5	541.3	546.9	544.5	543.3	547.7
25°	488.6	492.4	503.9	525.4	547.5	566.6	568.8	573.7	569.6	563.4	563.2
27.5°	515.3	518.8	530.6	552.7	574.7	594.6	598.8	605.2	596.4	588.7	583.3
30°	547.1	549.3	562.4	585.9	608.4	627.3	632.8	639.2	632.6	619.9	614.5
32.5°	584.1	587.1	602.2	626.9	647.1	666.0	671.4	679.4	672.2	657.9	651.1
35°	628.6	631.6	647.5	674.4	694.9	714.4	718.2	724.9	715.8	699.3	693.9
37.5°	676.8	680.6	700.7	726.3	747.8	770.5	770.7	772.7	759.9	739.3	733.3
40°	731.1	736.1	756.2	782.8	808.7	827.2	827.0	821.4	799.7	767.9	758.6
42.5°	784.8	788.8	809.1	836.5	862.4	879.9	874.7	861.0	829.6	786.4	774.1
45°	823.6	826.6	847.9	878.7	905.0	915.9	906.4	889.9	847.5	798.1	780.0
47.5°	841.9	845.9	867.4	898.0	927.7	934.0	922.7	907.2	858.0	808.9	784.6
50°	832.0	837.3	861.6	889.9	923.5	936.4	928.4	912.9	869.0	819.6	792.8
52.5°	806.5	811.5	842.3	876.7	914.7	940.2	940.0	927.3	881.7	822.6	793.2
55°	719.2	729.1	776.9	836.3	903.8	951.5	956.3	942.8	883.7	823.4	797.5
57.5°	468.1	485.4	530.8	608.0	743.6	865.4	898.0	901.2	869.2	820.0	798.3
60°	195.4	209.3	245.3	296.6	408.6	553.6	616.7	680.0	756.4	784.2	790.8
62.5°	121.4	122.7	126.3	137.9	175.3	246.1	286.7	346.0	459.7	556.4	601.0
65°	109.6	110.2	111.0	110.2	112.0	120.6	131.5	152.2	198.5	246.5	303.6
67.5°	96.5	97.3	97.9	97.3	97.9	98.3	99.5	101.3	109.8	116.6	121.8
70°	78.0	79.2	80.2	79.8	82.2	82.2	83.4	84.9	89.1	94.1	97.7
72.5°	59.5	58.5	59.7	60.1	62.3	63.5	65.3	67.0	71.8	74.8	79.4
75°	38.6	37.6	39.4	40.4	43.4	45.0	46.6	48.3	51.7	53.7	58.1
77.5°	20.9	20.7	22.5	23.9	27.1	29.2	30.4	31.6	34.4	35.0	37.8
80°	12.1	12.1	13.3	14.3	16.3	18.5	19.7	20.7	22.7	23.3	24.5
82.5°	6.6	6.6	7.2	7.8	9.5	10.7	11.7	12.5	14.3	14.9	15.5
85°	3.2	3.0	3.4	3.8	4.4	5.0	5.6	6.0	7.4	7.8	8.6
87.5°	0.4	0.4	0.4	0.6	0.8	1.2	1.4	1.4	2.2	2.6	3.0
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°	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6
2.5°	413.6	411.0	412.6	413.2	413.2	412.6	410.0	409.2	408.0	406.2	406.2
5°	422.9	420.8	421.2	420.2	417.8	414.8	410.0	407.6	405.6	403.4	403.2
7.5°	438.7	436.1	435.7	431.9	425.5	419.0	411.8	407.4	404.4	401.5	401.3
10°	459.5	457.0	454.0	446.4	436.9	427.5	417.6	411.6	407.2	403.2	402.9
12.5°	482.6	479.8	474.1	462.9	451.0	441.8	430.5	421.2	414.6	409.2	408.2
15°	507.7	503.7	494.0	480.8	469.1	459.2	447.2	433.9	423.9	415.2	414.2
17.5°	527.0	521.8	511.3	498.9	489.2	479.4	463.7	447.0	432.5	421.6	420.0
20°	540.3	536.1	524.2	514.9	509.3	500.7	482.4	463.5	447.2	433.5	432.7
22.5°	552.5	547.5	535.9	530.4	530.4	524.6	507.1	484.8	465.7	449.8	447.8
25°	566.4	561.0	552.1	551.5	554.4	551.7	530.6	506.7	484.4	466.5	463.3
27.5°	585.7	579.7	574.5	578.1	582.1	579.3	555.8	528.0	504.5	486.4	483.6
30°	616.5	609.0	604.2	608.6	616.5	608.2	582.7	553.4	529.6	509.7	508.3
32.5°	652.3	643.8	638.8	645.8	652.9	640.0	614.7	586.5	561.6	540.7	538.3
35°	695.3	684.7	677.2	686.7	693.9	681.2	656.1	629.4	601.6	579.9	576.7
37.5°	733.5	720.6	715.6	728.9	738.5	730.3	702.9	677.8	647.5	623.7	622.3
40°	761.3	748.6	745.0	766.9	783.8	781.8	757.2	728.5	699.9	672.6	670.0
42.5°	773.3	764.5	765.3	794.8	821.0	833.8	811.9	781.2	753.6	725.3	723.5
45°	775.9	770.5	776.9	813.9	848.3	874.7	856.0	830.2	799.1	771.7	770.9
47.5°	778.8	775.7	785.6	824.8	865.6	896.2	885.7	859.2	827.6	800.9	798.9
50°	785.4	784.2	795.2	832.4	873.9	902.0	890.1	863.8	831.4	805.1	800.3
52.5°	787.4	785.4	801.3	844.3	887.5	901.8	876.3	841.9	809.3	780.0	774.9
55°	793.6	790.0	800.9	848.7	906.4	913.5	875.5	824.0	778.6	738.5	726.7
57.5°	795.2	791.2	798.3	841.5	885.9	879.7	769.5	664.9	579.3	534.9	539.9
60°	786.6	787.8	775.7	770.9	710.6	627.3	471.1	376.6	295.8	261.6	269.0
62.5°	598.8	603.8	562.6	489.2	376.2	298.2	197.3	153.2	129.7	123.7	124.7
65°	302.2	309.0	266.2	220.2	163.7	132.3	114.4	110.8	109.6	108.2	108.2
67.5°	119.6	121.6	120.0	112.4	104.6	101.7	100.9	100.5	99.1	98.3	98.5
70°	96.1	97.7	95.3	90.5	87.3	87.1	86.7	85.9	84.9	84.9	85.5
72.5°	78.4	80.0	76.6	73.6	71.2	69.4	68.4	67.8	66.4	66.4	67.0
75°	57.7	58.7	55.9	55.5	52.9	51.1	49.5	48.7	46.8	46.0	46.6
77.5°	38.4	38.2	36.8	36.8	35.8	33.6	31.8	30.0	27.5	25.9	26.3
80°	24.9	24.9	24.3	24.3	23.3	21.5	19.3	17.5	16.1	14.9	14.9
82.5°	15.9	15.7	15.5	15.3	14.9	13.1	11.5	10.3	9.2	8.4	8.6
85°	8.8	8.8	8.4	8.4	7.6	6.6	5.8	5.0	4.4	4.2	4.2
87.5°	3.0	3.0	2.8	2.8	2.4	1.8	1.4	1.2	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)