

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: P629084

Luminaire Tested: GWS-SA1A-830-U-T1-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629084  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1A-830-U-T1-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

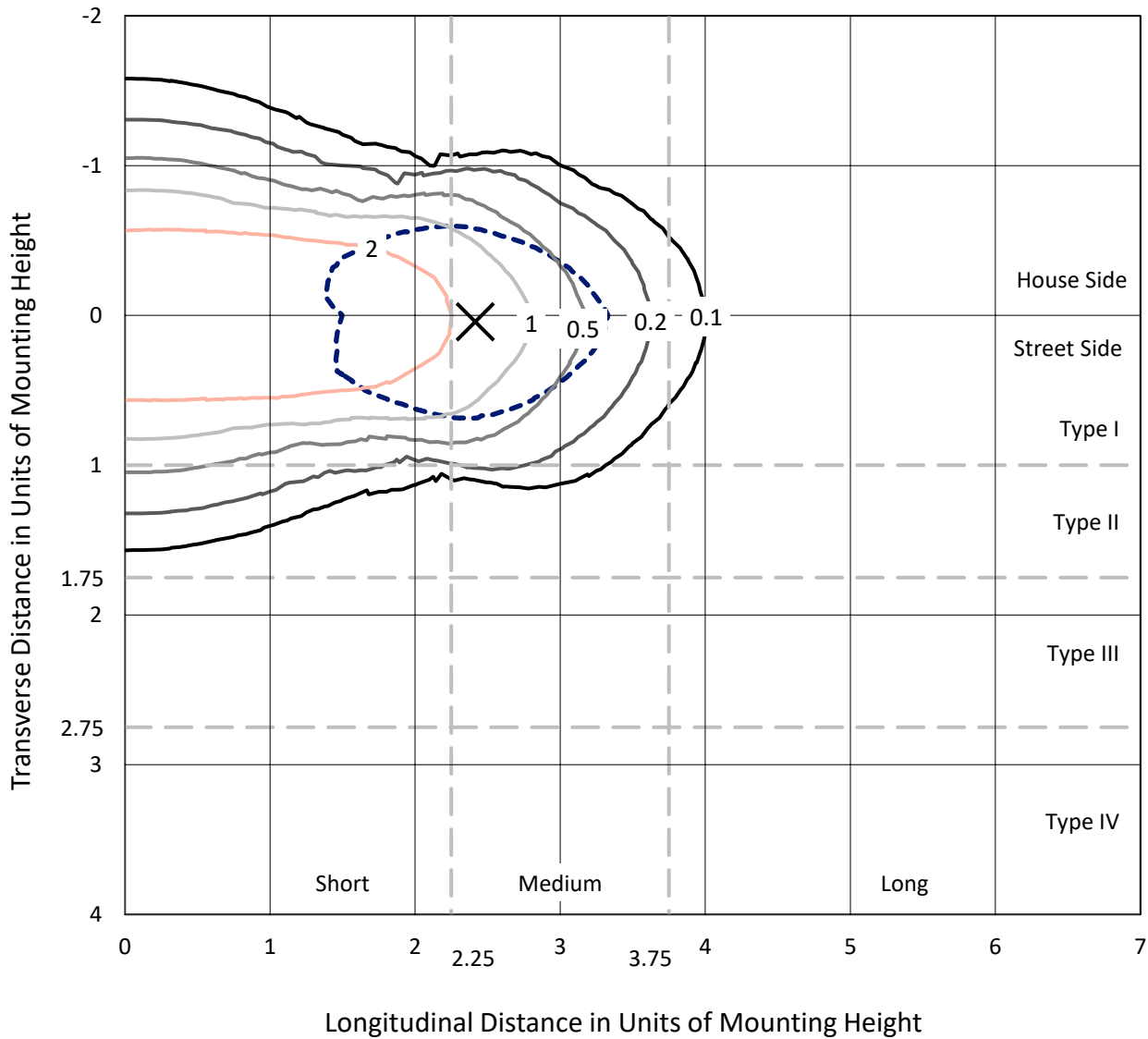
Lumens per Lamp: N/A  
Luminaire Lumens: 2254.9 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): 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

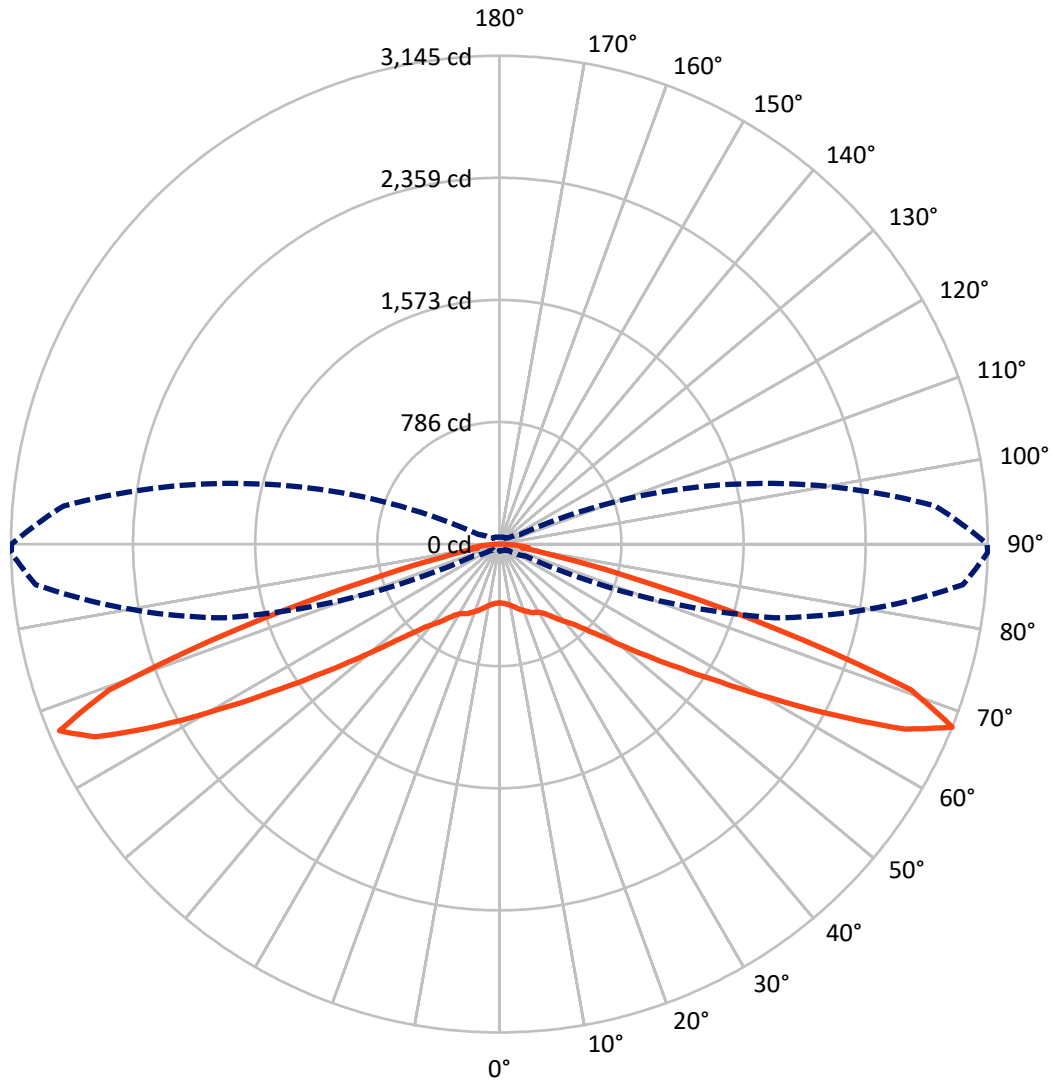
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.1 fc  
 Type I - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1117.6	0.0	1117.6
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	1137.3	0.0	1137.3
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	2254.9	0.0	2254.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.0	1.7
10°-20°	123.6	5.5
20°-30°	209.0	9.3
30°-40°	286.8	12.7
40°-50°	365.7	16.2
50°-60°	458.8	20.3
60°-70°	553.4	24.5
70°-80°	200.2	8.9
80°-90°	19.5	0.9
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°	2254.9	100.0
0°-180°	2254.9	100.0

**Coefficient of Utilization**



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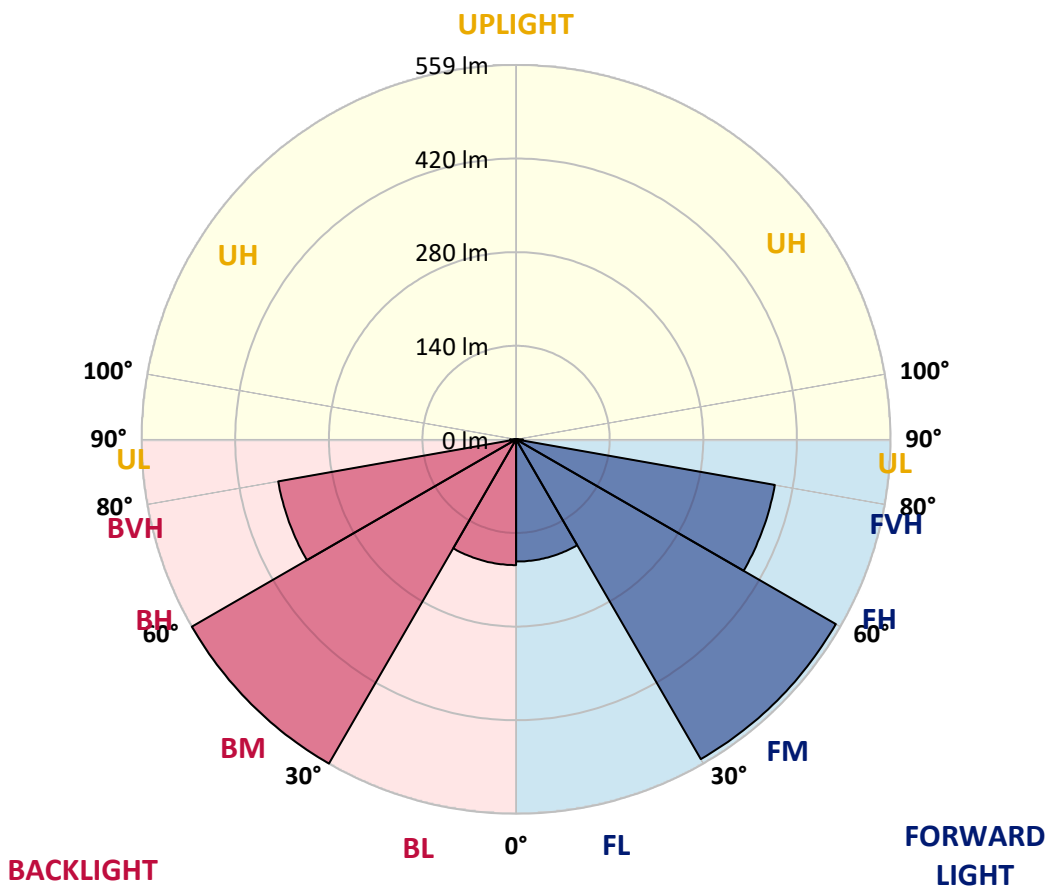
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	182.6	8.1			
FM (30°-60°)	551.8	24.5			
FH (60°-80°)	392.6	17.4			G0/660
FVH (80°-90°)	10.3	0.5			G1/100
BL (0°-30°)	187.9	8.3	B1/500		
BM (30°-60°)	559.5	24.8	B1/1000		
BH (60°-80°)	361.0	16.0	B1/500		G1/500
BVH (80°-90°)	9.2	0.4			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type I Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	378.5	378.5	378.5	378.5	378.5	378.5	378.5	378.5	378.5	378.5	378.5
2.5°	379.6	379.3	378.5	380.9	380.4	380.6	381.5	380.9	379.8	377.8	380.6
5°	390.3	390.1	388.3	389.8	388.2	387.0	386.9	385.3	384.0	381.9	384.8
7.5°	400.7	400.5	399.0	401.6	400.3	399.0	397.6	394.3	391.3	388.2	391.4
10°	408.6	408.4	408.1	411.8	412.2	412.6	412.0	406.5	401.1	397.4	400.7
12.5°	413.1	413.6	414.4	421.2	424.6	427.9	428.7	424.1	415.2	409.9	413.8
15°	410.0	411.0	415.1	427.4	436.8	444.1	447.1	443.4	431.9	423.0	427.4
17.5°	395.3	396.1	404.1	422.8	443.6	460.4	465.4	463.2	450.4	439.5	443.7
20°	374.9	376.7	385.3	411.5	442.4	471.7	485.2	484.4	470.5	453.8	458.8
22.5°	356.4	358.5	367.6	396.6	434.8	474.7	505.1	507.2	488.8	468.0	472.1
25°	335.7	337.7	349.3	379.0	421.7	472.4	522.1	531.7	509.5	484.4	488.1
27.5°	314.5	316.0	327.5	359.0	404.5	468.2	535.6	558.6	529.9	495.7	498.3
30°	295.9	297.8	308.3	339.1	385.8	459.8	546.6	587.2	553.4	508.5	510.6
32.5°	277.9	279.5	291.0	319.5	365.8	446.8	556.4	620.9	588.2	532.3	532.3
35°	255.2	258.1	271.1	300.7	347.0	429.6	563.6	660.1	635.8	567.5	567.6
37.5°	234.3	236.0	249.6	279.5	327.3	410.2	564.2	700.7	696.0	612.2	612.5
40°	210.5	212.6	227.2	256.8	304.6	389.8	558.1	738.6	759.2	658.1	656.4
42.5°	186.4	189.5	203.4	232.4	280.2	364.9	541.7	774.7	839.4	711.4	707.1
45°	163.1	165.0	178.9	206.3	252.1	335.1	515.5	809.4	934.6	792.4	786.1
47.5°	136.8	137.7	152.1	178.3	223.2	301.9	477.9	840.3	1039.2	899.6	888.8
50°	113.5	114.7	126.0	148.5	187.7	262.5	431.1	858.5	1172.5	1045.8	1027.1
52.5°	91.8	93.0	102.0	120.0	155.1	217.7	373.1	854.3	1307.7	1227.4	1200.0
55°	74.2	75.0	81.1	95.2	122.1	173.1	304.6	816.5	1457.8	1464.5	1405.5
57.5°	62.7	63.0	67.2	75.8	95.4	133.4	235.1	727.5	1615.2	1767.0	1670.1
60°	56.0	56.2	58.1	63.5	75.3	101.9	172.3	585.6	1778.3	2145.5	2012.7
62.5°	51.8	51.8	53.4	56.5	62.5	78.4	126.6	420.6	1895.4	2557.3	2425.3
65°	47.8	47.8	48.9	51.5	54.7	64.0	95.1	271.3	1952.9	2901.6	2872.3
67.5°	42.6	42.8	43.6	46.3	49.2	53.4	72.1	183.5	1833.5	2996.8	3145.1
70°	37.7	37.9	39.0	40.8	43.2	46.2	56.4	126.5	1334.6	2495.9	2812.2
72.5°	32.4	33.0	33.8	35.8	37.2	39.4	46.0	81.9	776.5	1605.5	1859.0
75°	26.6	27.4	28.3	30.3	31.3	32.1	37.9	58.5	373.6	813.6	926.5
77.5°	20.6	21.4	22.5	24.3	24.9	25.9	29.0	42.3	178.9	360.7	388.8
80°	13.8	14.1	15.1	17.2	18.3	18.9	21.4	28.8	77.7	144.8	143.5
82.5°	8.4	8.6	8.9	10.2	10.7	11.3	13.9	17.7	37.1	164.5	188.7
85°	3.1	2.9	2.8	3.6	4.2	4.9	6.5	8.9	16.2	113.0	126.5
87.5°	0.0	0.0	0.0	0.2	0.3	0.3	0.6	1.3	3.9	42.3	29.0
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°	378.5	378.5	378.5	378.5	378.5	378.5	378.5	378.5	378.5	378.5	378.5
2.5°	379.8	378.0	380.2	381.9	385.4	386.7	387.0	385.9	385.9	384.0	384.3
5°	384.1	383.0	386.7	389.5	394.7	396.6	397.9	397.1	397.6	396.3	396.6
7.5°	390.8	389.8	396.3	401.6	407.0	409.2	410.4	409.7	409.9	408.3	408.8
10°	400.0	400.3	408.1	415.1	422.2	424.5	424.9	423.0	421.4	418.5	418.6
12.5°	412.6	414.3	425.3	433.0	440.3	443.6	440.0	432.9	426.2	421.2	420.6
15°	426.4	429.3	445.2	455.1	463.0	461.4	450.9	434.8	421.7	414.3	412.8
17.5°	442.9	447.3	467.2	479.0	485.8	475.5	453.4	429.5	411.2	401.1	399.2
20°	458.5	465.4	490.5	505.9	506.7	483.4	452.3	418.6	395.6	383.3	380.7
22.5°	472.7	481.6	515.0	534.6	524.1	487.0	445.4	403.2	376.8	362.4	360.2
25°	488.3	500.9	543.5	561.8	541.4	485.5	430.8	384.1	354.2	339.4	337.8
27.5°	499.0	514.8	572.2	589.6	555.6	477.3	412.0	363.2	333.4	319.5	317.3
30°	511.3	531.5	603.7	619.9	564.4	465.1	391.9	343.8	314.2	299.1	297.5
32.5°	533.6	559.0	642.9	652.0	567.1	450.0	372.6	325.0	294.1	279.0	276.8
35°	569.6	599.4	698.0	687.8	565.0	433.5	354.3	303.0	273.5	259.4	257.2
37.5°	614.9	652.0	759.4	720.0	559.2	415.4	332.6	284.5	255.1	240.8	239.5
40°	657.2	702.8	828.2	747.9	547.4	393.0	311.7	265.3	235.1	220.1	217.2
42.5°	710.1	770.9	907.9	772.0	527.9	366.3	288.3	241.5	210.2	196.6	193.0
45°	790.6	866.1	1000.5	795.2	499.0	333.4	258.8	212.5	182.8	168.9	166.2
47.5°	891.0	985.1	1100.9	808.9	454.9	298.8	225.4	181.9	152.2	136.5	135.2
50°	1032.1	1158.2	1208.6	806.5	405.7	257.7	187.9	145.4	120.6	109.3	107.5
52.5°	1203.9	1375.6	1325.0	777.3	353.4	210.9	146.4	114.2	95.7	87.6	86.2
55°	1419.5	1635.8	1447.6	714.8	287.3	161.5	115.0	90.0	77.4	72.6	71.9
57.5°	1686.3	1972.8	1565.7	609.6	216.0	123.2	88.6	74.3	68.3	65.4	65.3
60°	2038.6	2330.6	1668.2	473.7	154.7	94.3	73.2	66.4	61.7	59.8	59.6
62.5°	2457.4	2655.4	1732.0	322.6	116.3	75.1	64.5	60.2	57.5	56.4	56.2
65°	2887.8	2860.8	1701.6	211.3	88.3	63.8	57.8	55.5	53.1	52.0	52.0
67.5°	3142.1	2817.4	1467.9	146.7	70.0	56.0	52.1	50.0	46.0	45.0	45.0
70°	2783.0	2282.9	962.1	107.4	56.7	49.1	45.3	42.4	40.8	39.8	39.7
72.5°	1840.7	1485.5	511.6	74.5	47.3	41.8	38.4	37.2	35.3	34.3	34.2
75°	916.1	780.3	262.2	53.8	39.4	33.5	32.1	31.6	30.0	28.7	28.3
77.5°	381.9	347.4	122.3	39.0	30.0	27.0	25.7	25.7	24.0	22.5	21.9
80°	144.0	128.3	57.8	26.7	22.2	20.1	19.3	18.6	17.2	15.4	14.4
82.5°	192.6	125.8	28.3	16.7	14.6	13.0	11.8	11.3	10.5	9.7	9.1
85°	124.7	89.4	12.8	8.6	7.3	5.5	4.9	4.5	4.0	3.6	3.2
87.5°	25.4	30.0	3.9	1.6	1.0	0.5	0.5	0.2	0.0	0.0	0.0
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)