



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  
Eaton Lighting Division  
(formerly Cooper Lighting)

Brand: io LED

Report Number: P397196

Luminaire Tested: **2VRVT2-LD5-4-DR-UNV-LA59-CD1-WL-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Eaton or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P397196  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-1)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: EATON (FORMERLY COOPER LIGHTING)  
Product Line: io LED  
Catalog Number: 2VRVT2-LD5-4-DR-UNV-LA59-CD1-WL-U  
Description:  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: 

<u>Sample No.</u>	<u>Condition</u>	<u>Description</u>
a	good	reflector
b	good	lens
c	good	housing
d	good	cord

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1141 lumens  
Efficiency: N/A  
Efficacy: 25.8 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')  
IES Classification: Type V - Short - Cutoff  
BUG Rating: B1 - U2 - G1  
  
Input Watts (W): 44.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

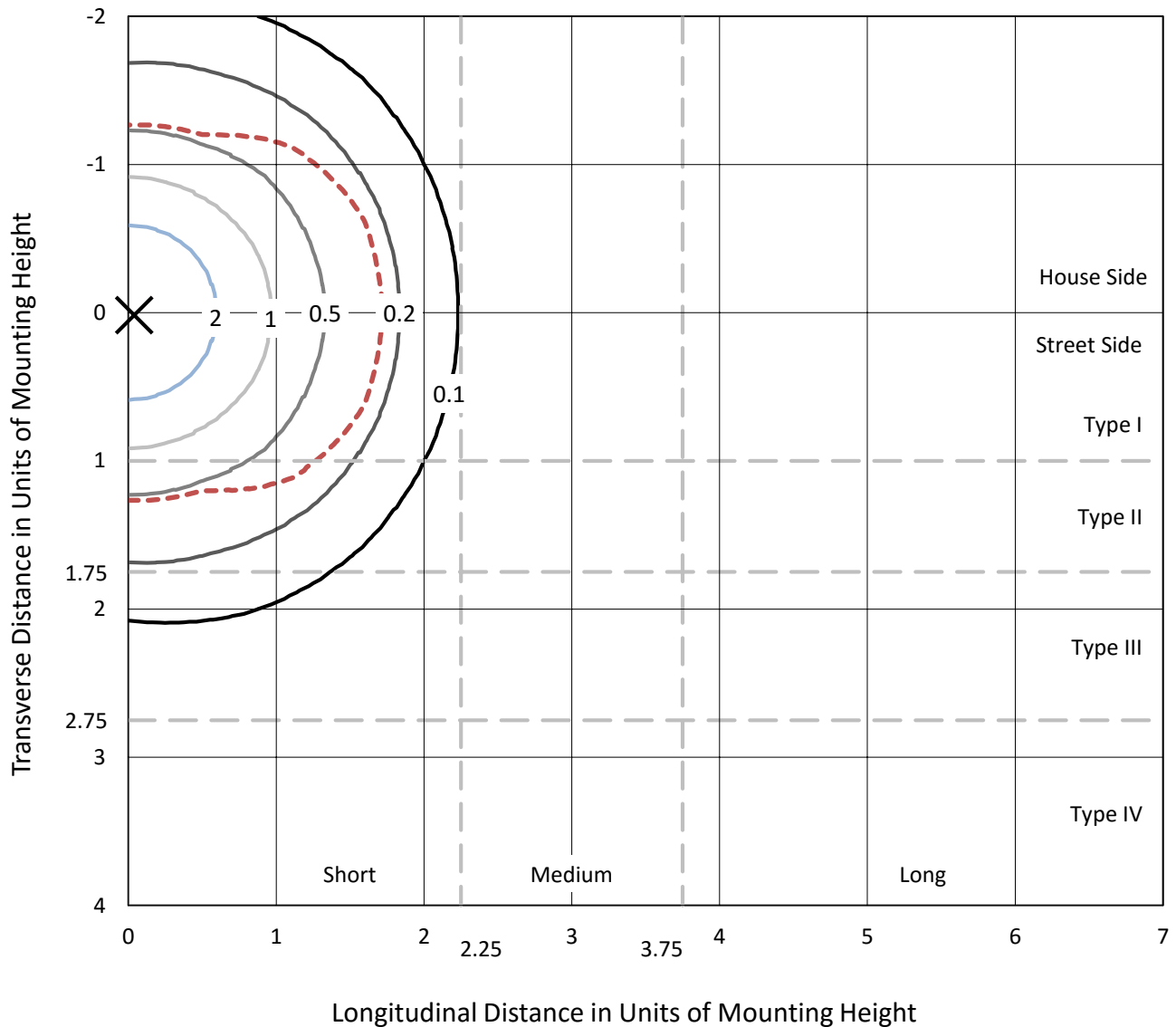


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd



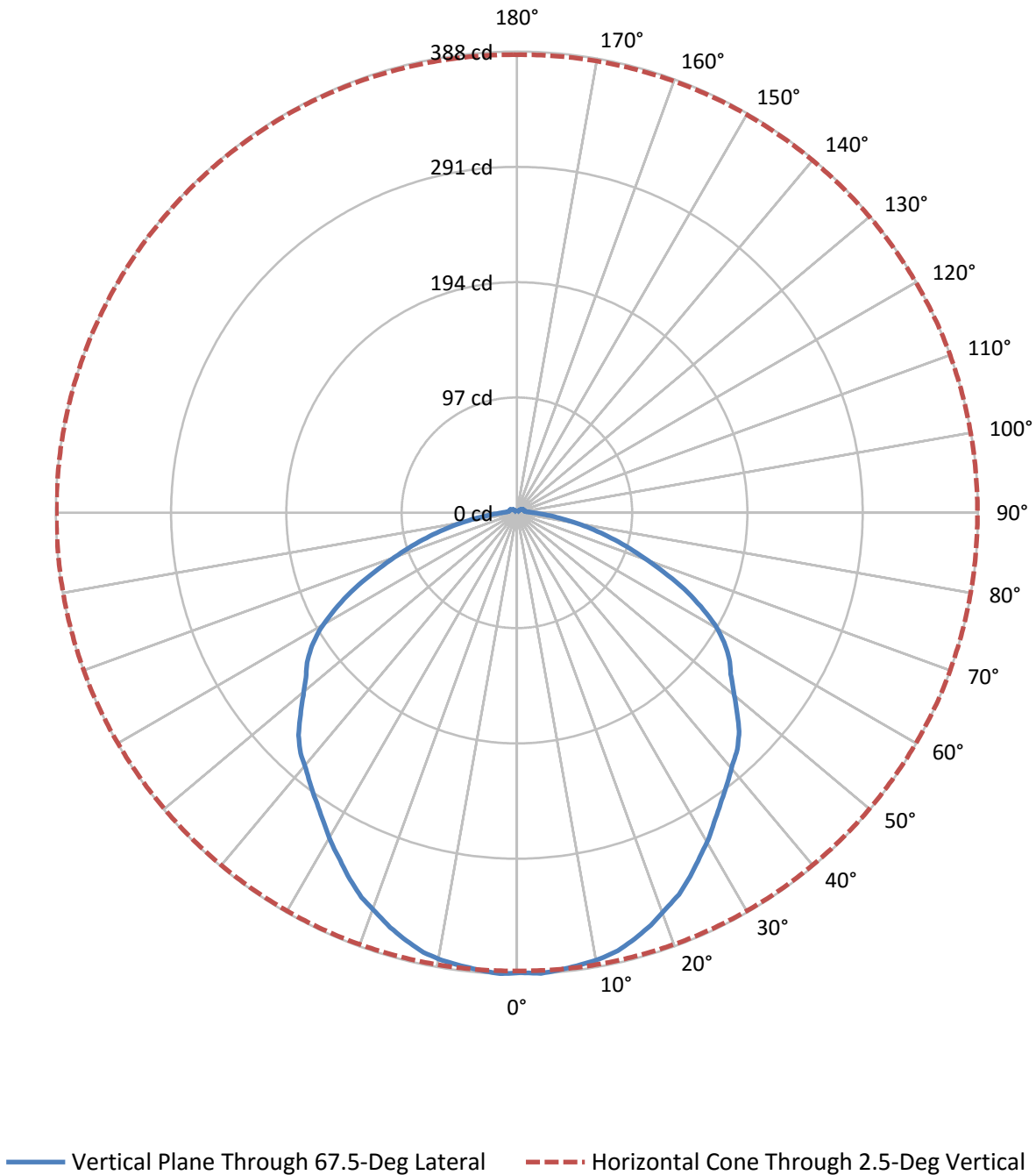
Based on 10 foot mounting height. Maximum calculated value = 3.9 fc  
 Type V - Short - Cutoff



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### Luminous Intensity Polar Plot





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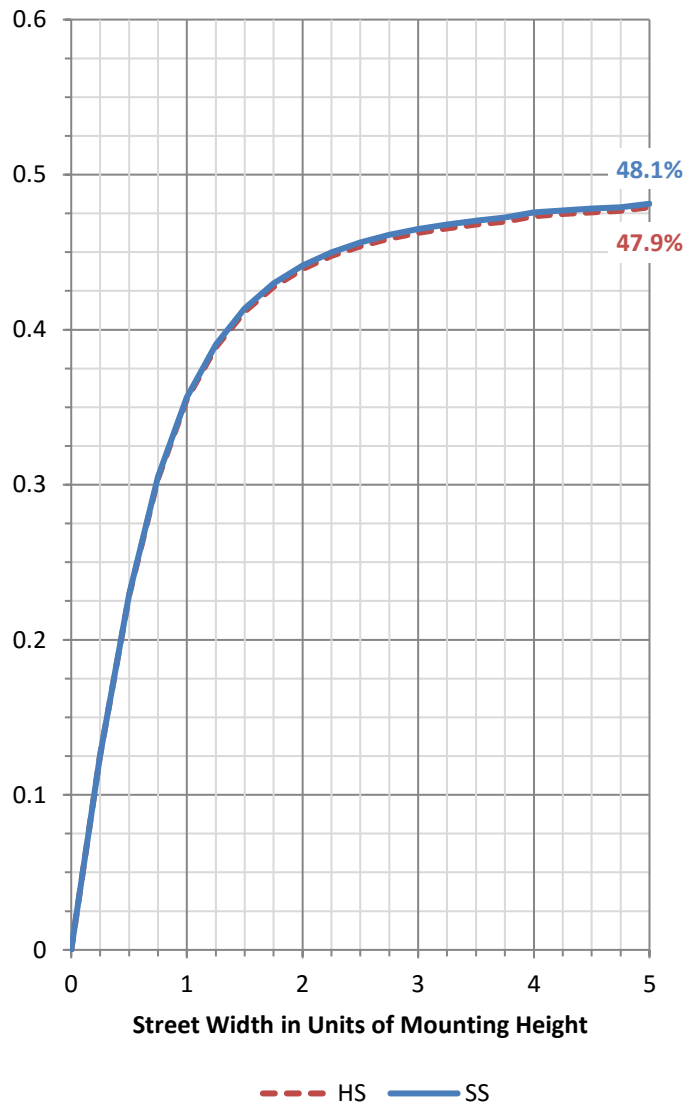
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	555.0	15.5	570.5
	% Fixture	48.6	1.4	50.0
<b>Street Side</b>	Lumens	555.0	15.5	570.5
	% Fixture	48.6	1.4	50.0
<b>Total</b>	Lumens	1110.0	31.0	1141.0
	% Fixture	97.3	2.7	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.6	3.2
10°-20°	104.3	9.1
20°-30°	155.7	13.6
30°-40°	184.3	16.1
40°-50°	191.3	16.8
50°-60°	179.2	15.7
60°-70°	143.4	12.6
70°-80°	84.7	7.4
80°-90°	30.5	2.7
90°-100°	11.0	1.0
100°-110°	8.1	0.7
110°-120°	6.1	0.5
120°-130°	3.7	0.3
130°-140°	1.8	0.2
140°-150°	0.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1110.0	97.3
0°-180°	1141.0	100.0





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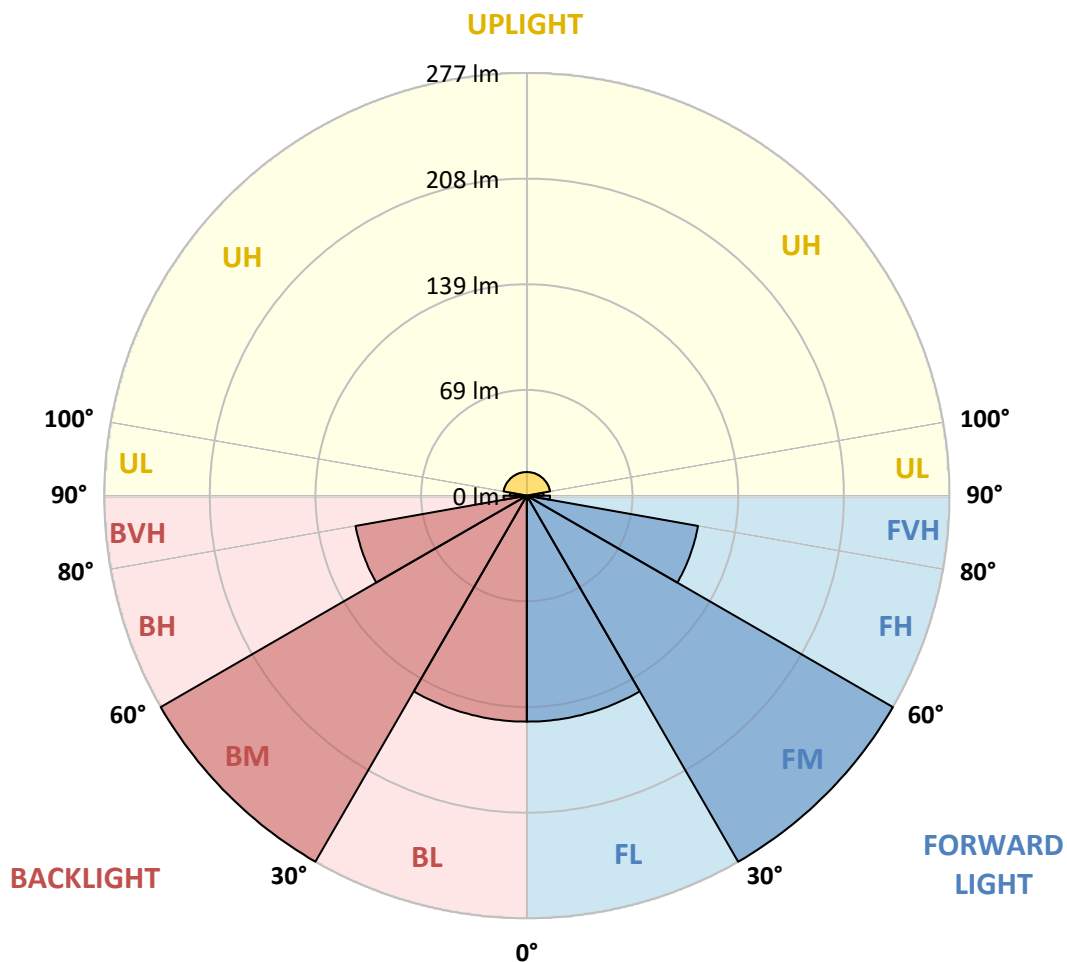
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	148.3	13.0			
FM (30°-60°)	277.4	24.3			
FH (60°-80°)	114.1	10.0			G0/660
FVH (80°-90°)	15.2	1.3			G1/100
BL (0°-30°)	148.3	13.0	B1/500		
BM (30°-60°)	277.4	24.3	B1/1000		
BH (60°-80°)	114.1	10.0	B1/500		G0/660
BVH (80°-90°)	15.2	1.3			G1/100
UL (90°-100°)	11.0	1.0		U2/50	
UH (100°-180°)	15.5	1.4		U2/50	

**BUG Rating: B1-U2-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	387.2	387.2	387.2	387.2	387.2
2.5°	385.8	386.9	387.6	388.4	388.0
5°	384.7	385.0	385.4	386.5	385.8
7.5°	382.1	382.1	383.2	384.3	383.2
10°	377.6	378.0	380.2	382.1	380.6
12.5°	373.6	373.9	375.1	378.4	375.8
15°	368.0	368.0	370.6	372.1	370.3
17.5°	362.2	362.2	364.7	365.1	363.2
20°	353.3	354.0	357.7	356.6	355.9
22.5°	344.8	345.9	348.9	349.2	348.5
25°	335.6	337.8	338.5	339.2	338.5
27.5°	324.5	327.4	328.6	328.2	328.6
30°	314.5	316.4	317.8	318.2	318.2
32.5°	302.3	304.2	305.6	307.1	308.3
35°	290.2	291.6	292.7	297.2	300.1
37.5°	276.5	278.7	280.9	288.3	291.6
40°	261.7	264.0	267.6	279.4	284.6
42.5°	247.7	249.5	256.9	272.4	275.4
45°	233.3	234.8	247.7	262.5	263.2
47.5°	217.8	220.0	237.7	249.2	250.3
50°	203.0	206.4	230.0	236.6	239.2
52.5°	189.0	192.7	220.8	225.5	232.2
55°	174.2	179.4	208.2	217.1	223.3
57.5°	159.9	168.7	193.8	206.0	208.2
60°	145.1	158.4	180.5	192.0	192.3
62.5°	131.8	148.8	167.6	173.9	173.1
65°	118.1	139.6	152.5	155.0	152.5
67.5°	104.8	129.6	135.9	133.6	132.9
70°	93.0	116.6	118.1	113.3	112.2
72.5°	79.7	101.9	97.8	96.0	94.9
75°	68.3	87.1	80.5	79.0	78.3
77.5°	56.1	71.3	62.7	63.5	63.5
80°	43.6	55.4	48.0	48.7	47.6
82.5°	31.8	40.6	36.5	36.2	35.1
85°	20.7	28.4	26.2	25.5	24.4
87.5°	12.5	19.9	19.2	18.5	17.7
90°	9.2	15.1	14.4	13.3	12.9
92.5°	9.2	12.5	11.8	10.7	10.0
95°	9.6	10.7	10.0	8.5	8.1
97.5°	10.3	10.0	8.8	7.8	7.0
100°	10.3	9.2	8.5	7.0	6.3
102.5°	10.0	8.8	8.1	6.6	5.9
105°	9.6	8.5	8.1	6.6	5.5
107.5°	8.5	8.1	8.1	6.3	5.5
110°	7.8	7.4	7.8	6.3	5.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	6.6	6.6	7.8	6.3	5.5
115°	5.5	5.9	7.4	6.3	5.5
117.5°	4.8	4.8	6.6	5.9	5.5
120°	3.7	4.1	6.3	5.9	5.2
122.5°	2.9	3.3	5.5	5.5	5.2
125°	2.6	2.6	4.8	5.2	5.2
127.5°	1.8	1.8	4.1	4.8	4.8
130°	1.5	1.5	3.7	4.4	4.4
132.5°	1.5	1.1	2.9	4.1	4.1
135°	1.1	0.7	2.2	3.3	3.7
137.5°	0.7	0.7	1.8	2.9	3.3
140°	0.7	0.7	1.1	2.2	2.6
142.5°	0.7	0.4	0.7	1.8	2.2
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)