

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: STREETWORKS

Report Number: P230975

Luminaire Tested: **ARCH-M-AF48-80-D-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230975
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29597)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-M-AF48-80-D-U-5WQ-7050
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 535mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11414 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): 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: 28.75 FT

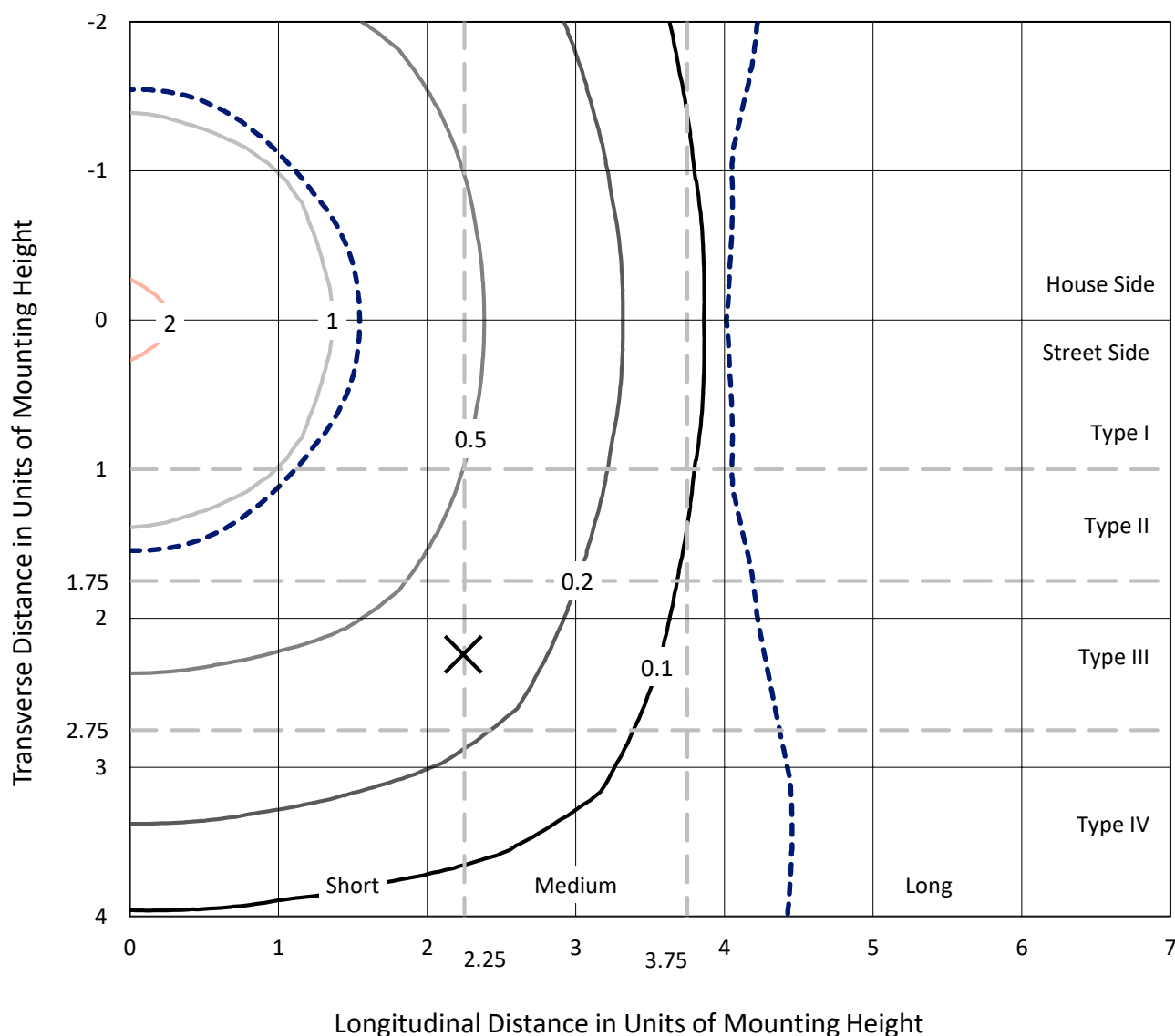


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

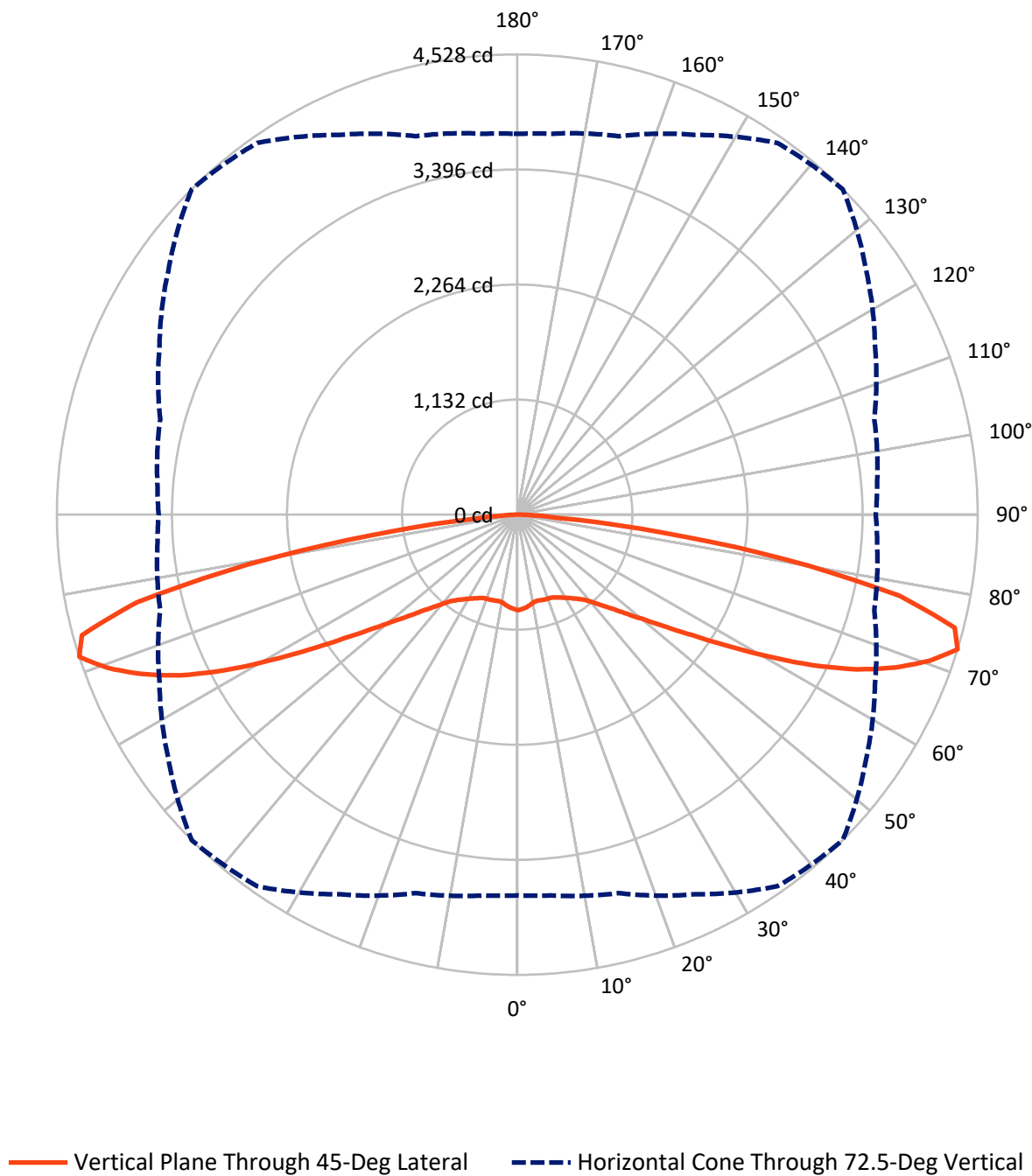


Based on 20 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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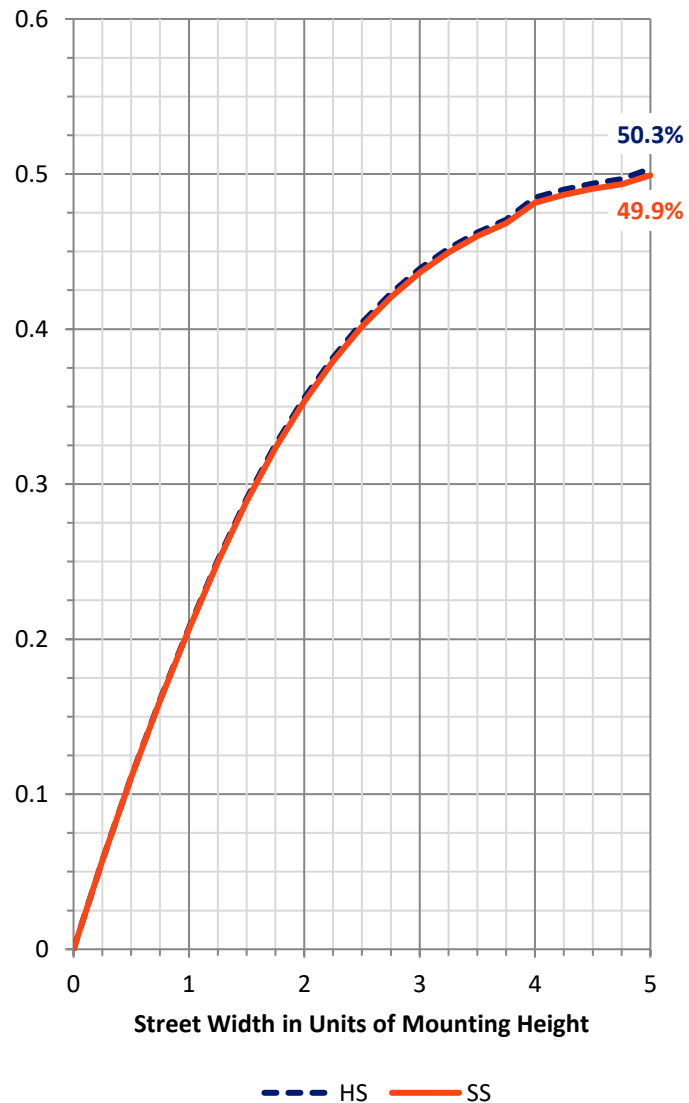
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5707.0	0.0	5707.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5707.0	0.0	5707.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11414.0	0.0	11414.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.6	0.8
10°-20°	249.8	2.2
20°-30°	418.0	3.7
30°-40°	642.2	5.6
40°-50°	1063.3	9.3
50°-60°	1890.4	16.6
60°-70°	3307.2	29.0
70°-80°	3364.8	29.5
80°-90°	391.8	3.4
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°	11414.0	100.0
0°-180°	11414.0	100.0

Coefficient of Utilization



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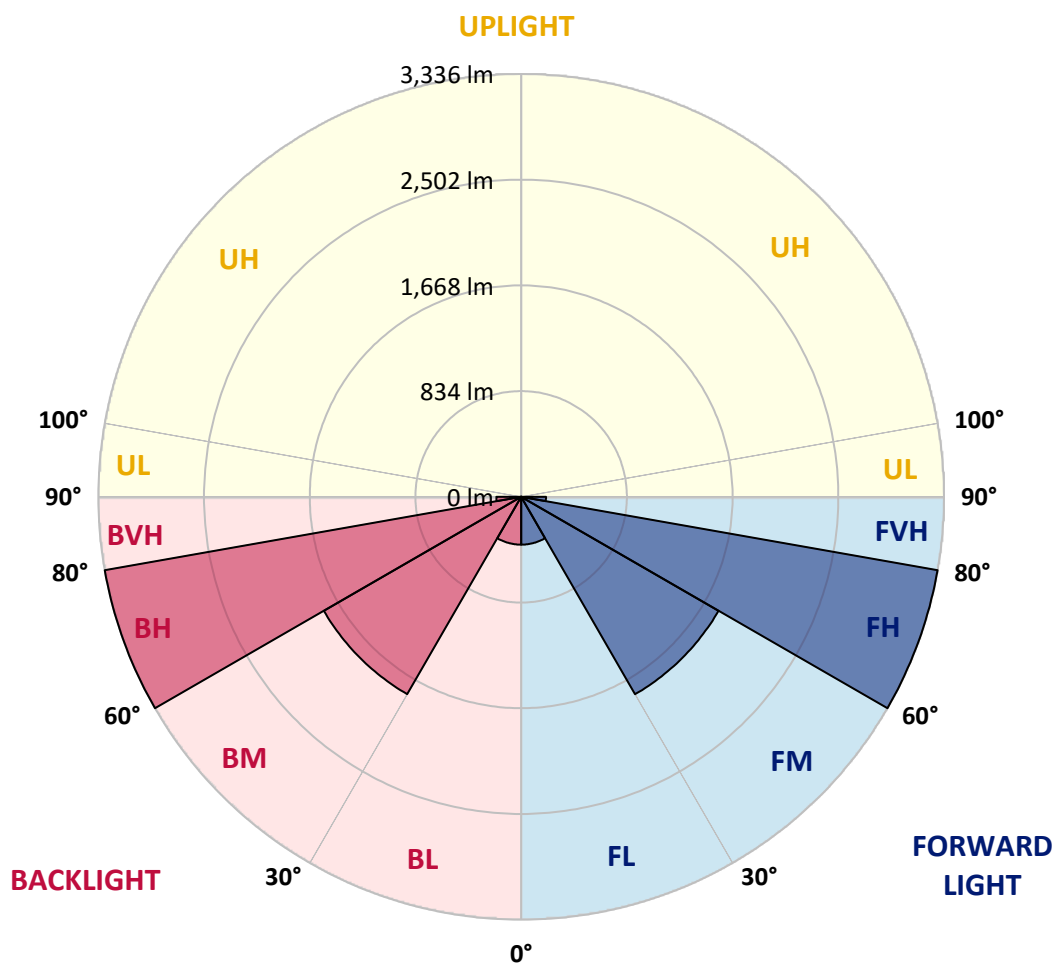
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	377.1	3.3			
FM	(30°-60°)	1798.0	15.8			
FH	(60°-80°)	3336.0	29.2			G2/5000
FVH	(80°-90°)	195.9	1.7			G2/225
BL	(0°-30°)	377.1	3.3	B1/500		
BM	(30°-60°)	1798.0	15.8	B2/2500		
BH	(60°-80°)	3336.0	29.2	B4/5000		G2/5000
BVH	(80°-90°)	195.9	1.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	940.8	940.8	940.8	940.8	940.8	940.8	940.8	940.8	940.8	940.8	940.8
2.5°	932.1	934.3	929.9	929.9	929.9	927.7	929.9	927.7	929.9	932.1	932.1
5°	923.4	923.4	919.1	919.1	919.1	916.9	919.1	919.1	921.2	923.4	923.4
7.5°	903.8	903.8	901.7	899.5	897.3	897.3	899.5	899.5	901.7	903.8	903.8
10°	893.0	890.8	886.5	879.9	877.8	875.6	879.9	884.3	890.8	897.3	895.2
12.5°	888.6	886.5	877.8	871.3	866.9	869.1	873.4	877.8	888.6	895.2	893.0
15°	893.0	888.6	877.8	866.9	869.1	873.4	877.8	877.8	890.8	897.3	897.3
17.5°	893.0	890.8	877.8	869.1	871.3	877.8	879.9	877.8	888.6	899.5	899.5
20°	895.2	895.2	877.8	871.3	873.4	879.9	882.1	879.9	888.6	901.7	901.7
22.5°	899.5	897.3	879.9	875.6	879.9	884.3	886.5	884.3	893.0	903.8	906.0
25°	908.2	903.8	888.6	886.5	895.2	901.7	901.7	897.3	901.7	912.5	912.5
27.5°	919.1	916.9	899.5	899.5	910.4	923.4	916.9	908.2	912.5	923.4	923.4
30°	938.6	936.4	919.1	919.1	934.3	949.5	934.3	923.4	929.9	940.8	943.0
32.5°	966.9	966.9	951.6	947.3	973.4	979.9	973.4	951.6	956.0	971.2	971.2
35°	1014.7	1010.3	995.1	992.9	1019.0	1016.8	1014.7	995.1	999.4	1016.8	1016.8
37.5°	1077.7	1075.5	1062.4	1055.9	1069.0	1060.3	1064.6	1055.9	1066.8	1079.8	1082.0
40°	1158.0	1155.9	1145.0	1136.3	1140.7	1127.6	1132.0	1136.3	1147.2	1155.9	1158.0
42.5°	1258.0	1258.0	1247.1	1231.9	1225.4	1218.9	1218.9	1227.6	1238.4	1249.3	1249.3
45°	1381.8	1381.8	1368.8	1353.6	1334.0	1323.2	1327.5	1336.2	1349.2	1362.3	1366.6
47.5°	1527.4	1527.4	1510.0	1494.8	1475.3	1462.2	1462.2	1466.6	1486.1	1497.0	1503.5
50°	1690.4	1683.8	1666.5	1651.3	1640.4	1623.0	1625.2	1623.0	1640.4	1655.6	1659.9
52.5°	1859.8	1857.7	1840.3	1835.9	1842.4	1833.8	1833.8	1812.0	1818.5	1827.2	1825.1
55°	2070.6	2064.1	2048.9	2057.5	2083.6	2096.7	2092.3	2057.5	2038.0	2042.3	2040.2
57.5°	2300.9	2294.4	2290.0	2316.1	2374.8	2429.1	2418.2	2337.8	2300.9	2303.1	2305.2
60°	2535.5	2535.5	2548.6	2613.8	2739.8	2828.9	2796.3	2661.6	2596.4	2583.3	2579.0
62.5°	2776.7	2783.2	2811.5	2920.1	3113.5	3261.2	3178.7	2987.5	2889.7	2863.6	2854.9
65°	3057.0	3063.5	3104.8	3239.5	3495.9	3671.9	3530.6	3350.3	3213.4	3159.1	3150.4
67.5°	3463.3	3467.6	3500.2	3630.6	3871.8	4013.0	3867.4	3706.6	3558.9	3495.9	3491.5
70°	3828.3	3832.6	3860.9	4032.5	4254.1	4304.1	4143.3	3939.1	3784.8	3734.9	3726.2
72.5°	3745.7	3760.9	3854.4	4121.6	4462.7	4527.9	4189.0	3882.6	3634.9	3552.4	3526.3
75°	3141.7	3165.6	3313.4	3715.3	4258.5	4443.2	3919.5	3356.8	2987.5	2828.9	2787.6
77.5°	1833.8	1922.8	2177.0	2692.0	3467.6	3843.5	3228.6	2457.3	1835.9	1575.2	1488.3
80°	501.9	549.7	734.4	1238.4	2174.9	2692.0	2059.7	1127.6	608.4	456.3	423.7
82.5°	158.6	210.8	267.2	356.3	853.9	1418.8	764.8	332.4	260.7	215.1	191.2
85°	84.7	91.3	149.9	173.8	256.4	397.6	236.8	173.8	156.4	115.2	108.6
87.5°	43.5	45.6	84.7	84.7	113.0	93.4	102.1	93.4	89.1	56.5	50.0
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)