

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: P836773

Luminaire Tested: **ARCH3-70-740-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836773
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-70-740-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12250 lumens
Efficiency: N/A
Efficacy: 167.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B4 - U0 - G2

Input Watts (W): 73.1
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: 24 FT

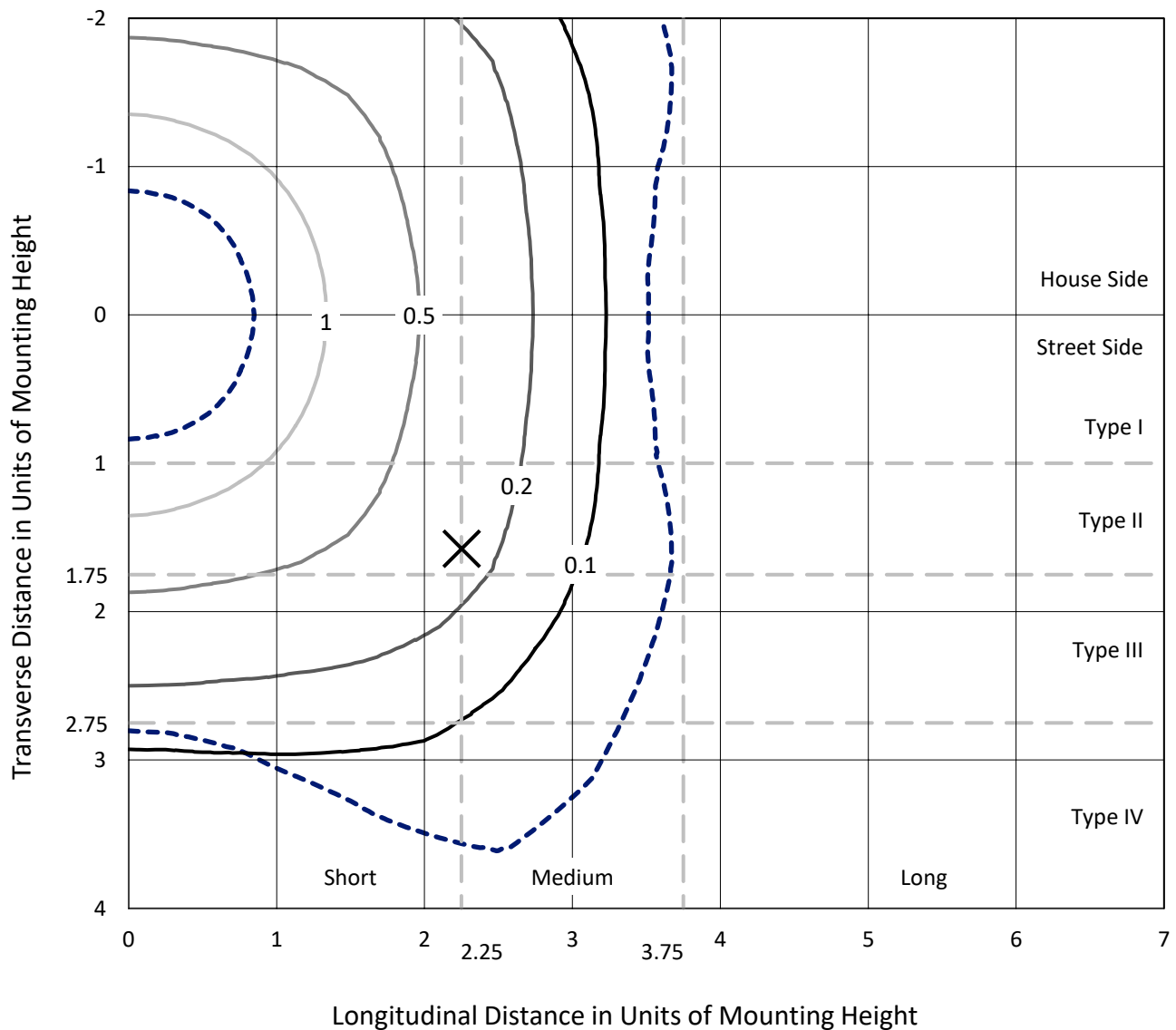


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Iso-Footcandle Lines of Horizontal Illumination

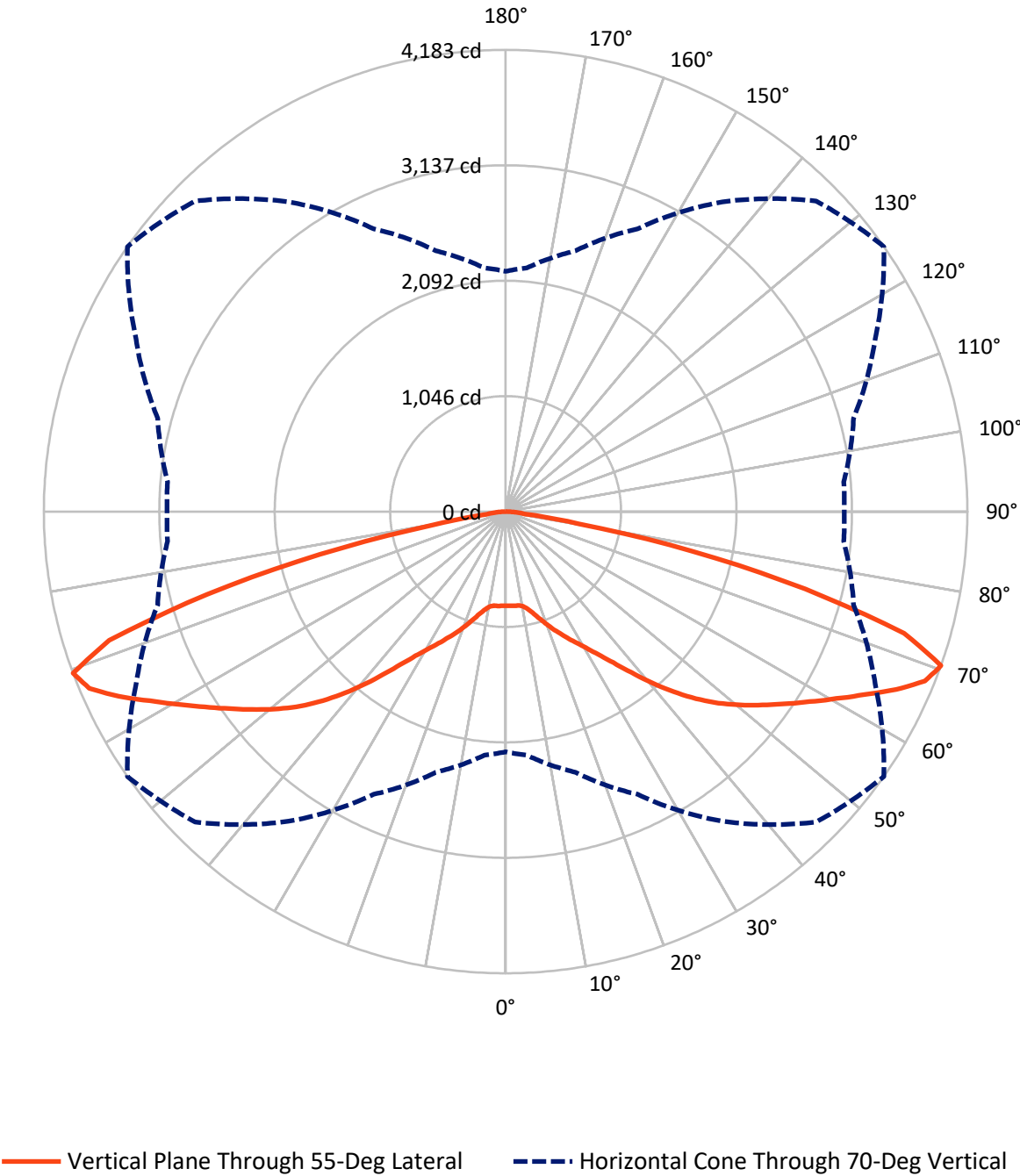
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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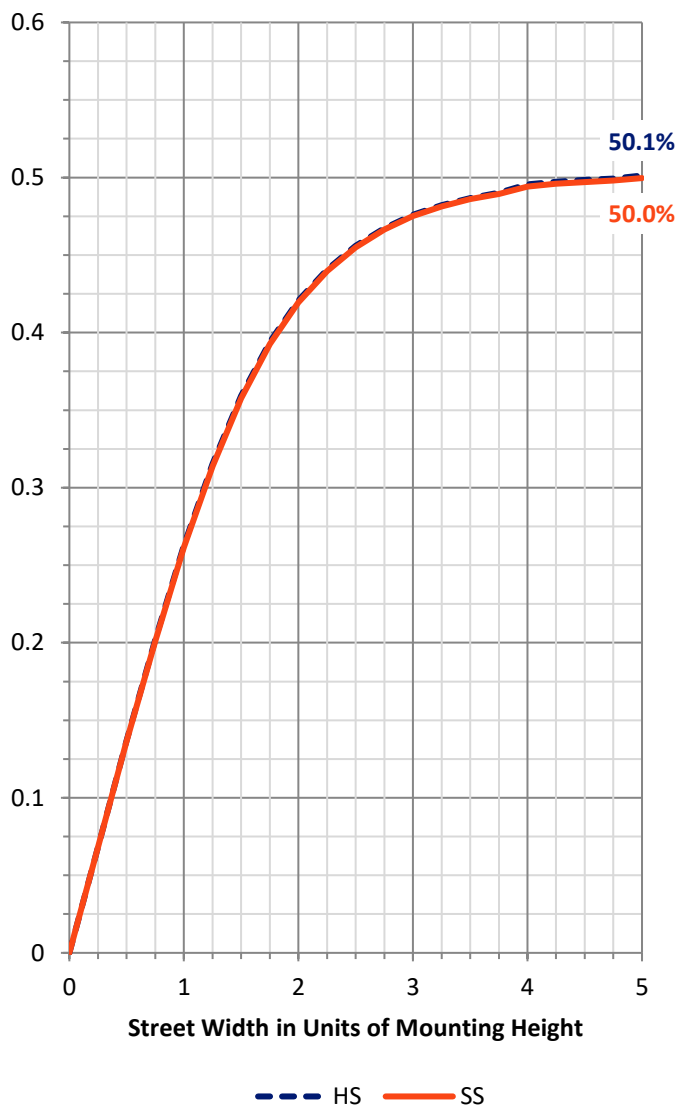
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6125.0	0.0	6125.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6125.0	0.0	6125.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12250.0	0.0	12250.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	0.7
10°-20°	280.6	2.3
20°-30°	583.0	4.8
30°-40°	1076.8	8.8
40°-50°	1891.6	15.4
50°-60°	2728.2	22.3
60°-70°	3339.0	27.3
70°-80°	2124.7	17.3
80°-90°	143.8	1.2
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°	12250.0	100.0
0°-180°	12250.0	100.0

Coefficient of Utilization



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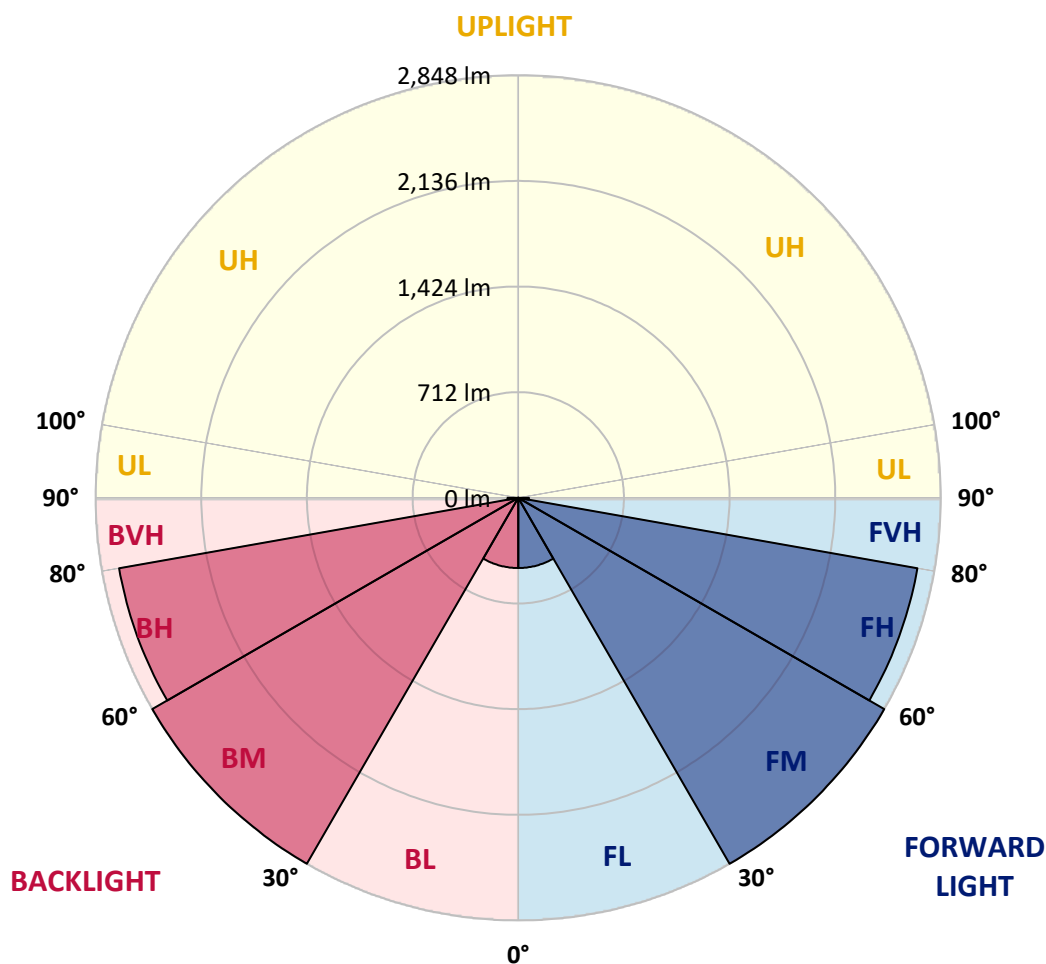
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	473.0	3.9			
FM	(30°-60°)	2848.3	23.3			
FH	(60°-80°)	2731.8	22.3			G2/5000
FVH	(80°-90°)	71.9	0.6			G1/100
BL	(0°-30°)	473.0	3.9	B1/500		
BM	(30°-60°)	2848.3	23.3	B3/5000		
BH	(60°-80°)	2731.8	22.3	B4/5000		G2/5000
BVH	(80°-90°)	71.9	0.6			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	853.9	853.9	853.9	853.9	853.9	853.9	853.9	853.9	853.9	853.9	853.9
2.5°	865.3	865.3	863.0	863.0	858.5	856.2	853.9	853.9	851.7	851.7	849.4
5°	869.9	869.9	869.9	867.6	865.3	863.0	858.5	853.9	851.7	849.4	847.1
7.5°	872.2	872.2	869.9	869.9	867.6	865.3	858.5	851.7	849.4	847.1	847.1
10°	890.4	888.1	885.8	881.3	881.3	881.3	872.2	865.3	863.0	863.0	863.0
12.5°	933.6	931.4	926.8	920.0	920.0	922.3	908.6	899.5	899.5	897.2	897.2
15°	997.4	995.1	990.6	979.2	976.9	981.5	961.0	951.9	951.9	951.9	949.6
17.5°	1068.0	1063.4	1056.6	1047.5	1047.5	1047.5	1027.0	1015.6	1008.8	1008.8	1006.5
20°	1127.2	1124.9	1124.9	1122.6	1129.5	1129.5	1102.2	1083.9	1068.0	1058.9	1056.6
22.5°	1179.6	1177.3	1181.9	1191.0	1204.6	1209.2	1177.3	1150.0	1124.9	1106.7	1102.2
25°	1250.2	1247.9	1245.6	1259.3	1282.0	1288.9	1254.7	1220.6	1195.5	1186.4	1181.9
27.5°	1325.3	1327.6	1329.9	1343.5	1361.8	1373.1	1339.0	1307.1	1286.6	1272.9	1268.4
30°	1409.6	1414.1	1421.0	1441.5	1455.1	1459.7	1430.1	1407.3	1389.1	1377.7	1370.9
32.5°	1516.6	1525.7	1534.8	1553.0	1559.9	1555.3	1541.6	1525.7	1512.0	1496.1	1493.8
35°	1676.0	1685.1	1682.8	1689.7	1691.9	1687.4	1680.6	1671.4	1664.6	1644.1	1641.8
37.5°	1876.4	1885.5	1871.8	1865.0	1849.1	1851.3	1849.1	1855.9	1858.2	1837.7	1835.4
40°	2079.1	2088.2	2070.0	2051.7	2035.8	2029.0	2040.3	2063.1	2063.1	2049.5	2049.5
42.5°	2295.4	2302.2	2272.6	2249.8	2229.4	2224.8	2231.6	2259.0	2265.8	2263.5	2263.5
45°	2511.7	2507.2	2468.5	2445.7	2427.5	2416.1	2418.4	2438.9	2452.5	2459.3	2459.3
47.5°	2678.0	2671.1	2639.2	2621.0	2609.6	2593.7	2593.7	2605.1	2611.9	2614.2	2614.2
50°	2810.0	2803.2	2771.3	2769.0	2769.0	2762.2	2755.4	2753.1	2748.6	2750.8	2750.8
52.5°	2923.9	2914.8	2892.0	2896.6	2917.1	2921.6	2912.5	2894.3	2876.1	2869.2	2871.5
55°	3046.9	3033.2	3015.0	3028.6	3069.6	3087.8	3074.2	3037.8	3005.9	2985.4	2985.4
57.5°	3144.8	3128.8	3128.8	3167.6	3242.7	3279.1	3249.5	3181.2	3126.6	3103.8	3106.1
60°	3076.5	3062.8	3117.5	3288.2	3429.4	3490.9	3440.8	3320.1	3231.3	3204.0	3208.5
62.5°	2942.1	2933.0	3001.3	3265.5	3597.9	3725.5	3650.3	3477.2	3345.2	3313.3	3313.3
65°	2744.0	2741.7	2837.4	3163.0	3636.6	3950.9	3887.1	3648.0	3477.2	3434.0	3443.1
67.5°	2539.0	2539.0	2625.6	2987.7	3591.1	4046.5	4096.6	3802.9	3541.0	3434.0	3436.3
70°	2177.0	2215.7	2445.7	2826.0	3424.9	3978.2	4183.2	3693.6	3263.2	3074.2	3067.4
72.5°	1434.6	1484.7	1942.4	2543.6	3260.9	3730.0	3775.6	3245.0	2709.8	2489.0	2477.6
75°	865.3	908.6	1259.3	1985.7	2867.0	3003.6	2803.2	2543.6	2024.4	1851.3	1851.3
77.5°	255.0	284.6	580.7	1259.3	1983.4	1974.3	1728.4	1498.4	1197.8	1017.9	1031.6
80°	150.3	154.8	189.0	573.8	822.1	865.3	667.2	416.7	416.7	309.7	300.6
82.5°	116.1	116.1	120.7	143.5	198.1	220.9	168.5	143.5	164.0	138.9	132.1
85°	82.0	82.0	82.0	84.3	86.5	88.8	93.4	95.6	104.8	86.5	82.0
87.5°	25.0	27.3	29.6	34.2	41.0	43.3	45.5	41.0	41.0	38.7	36.4
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)