

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: P836755

Luminaire Tested: **ARCH3-70-730-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836755
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: ARCH3-70-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11667 lumens
Efficiency: N/A
Efficacy: 159.6 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

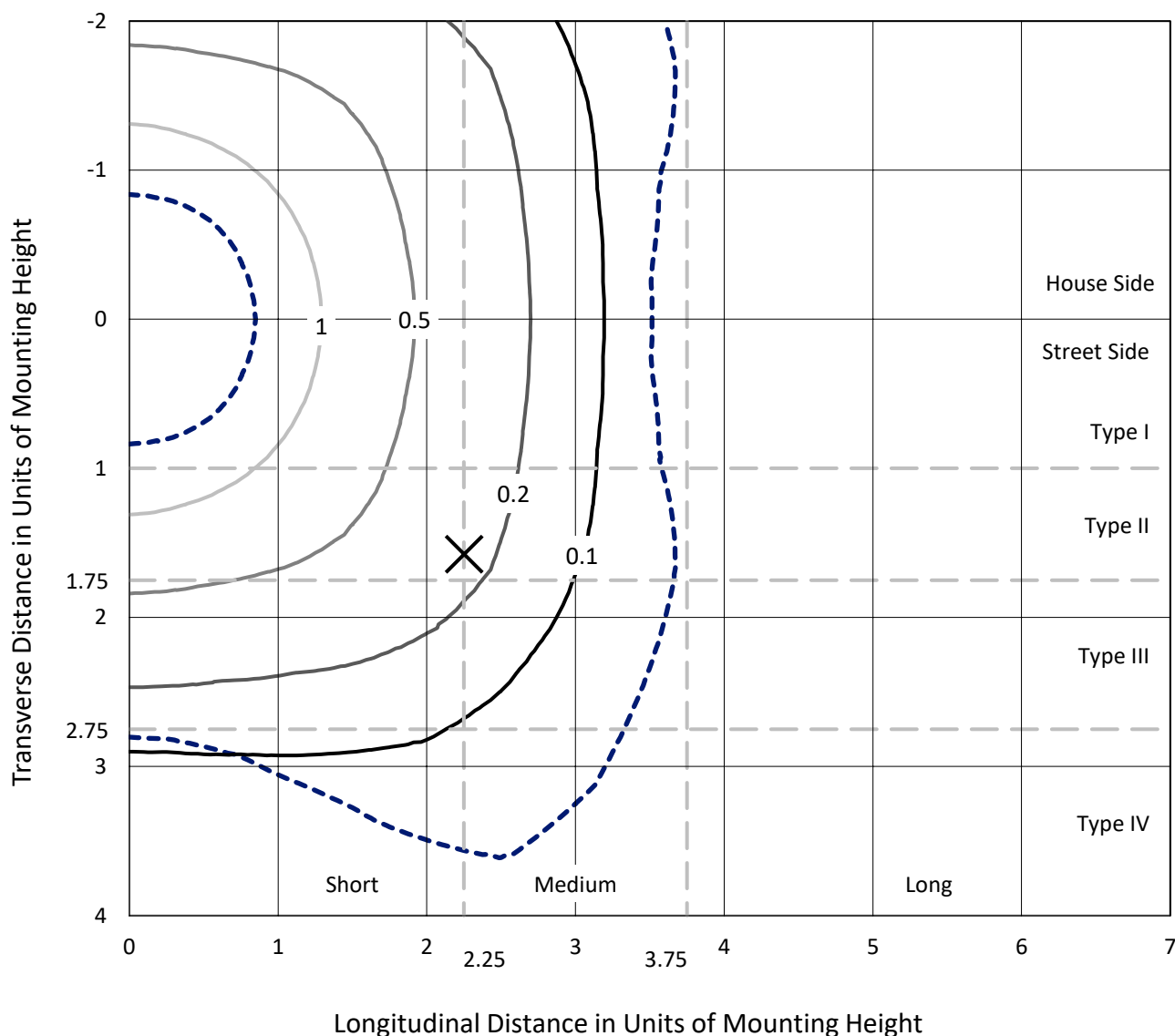
Input Watts (W): 73.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

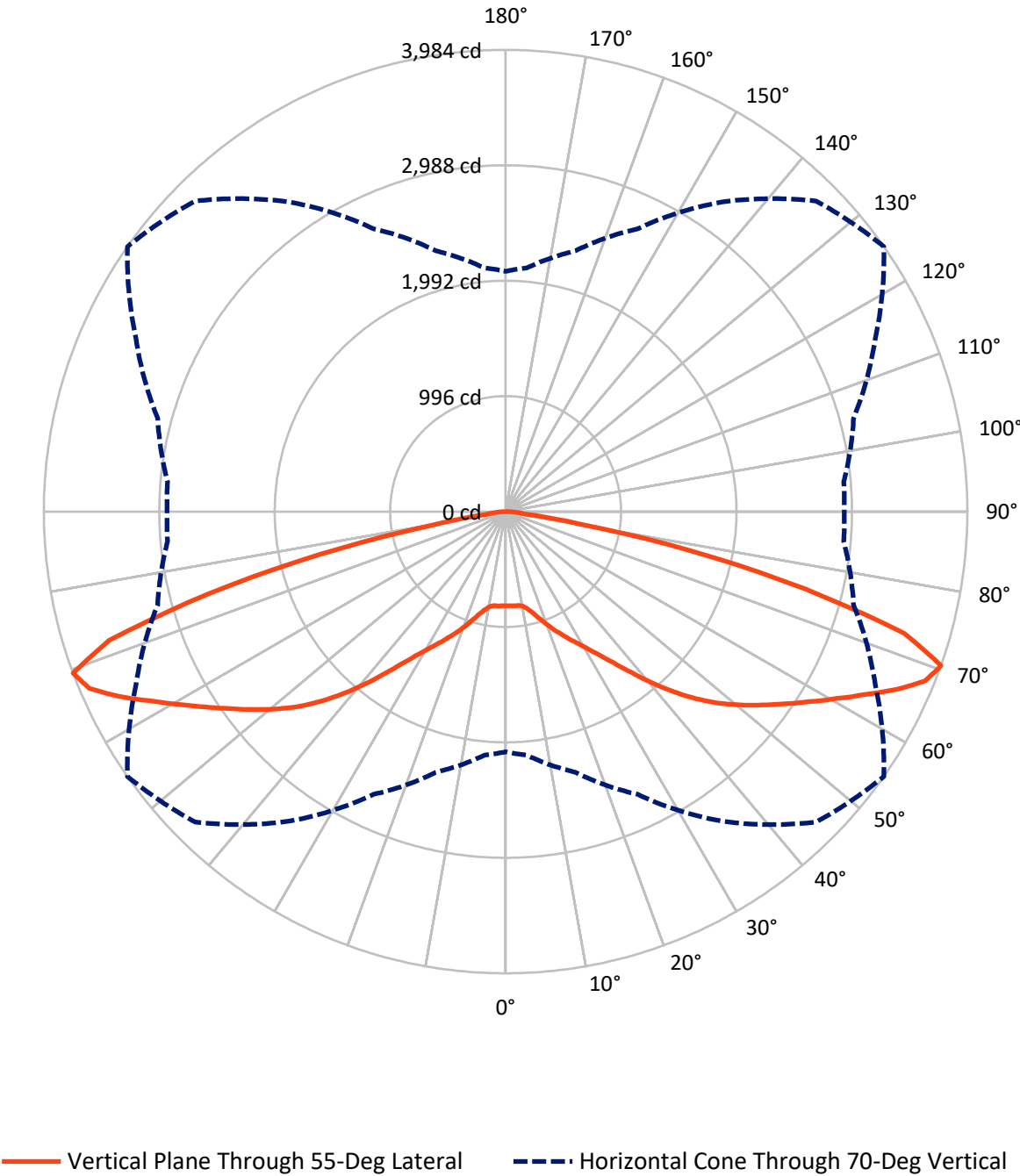
× Max cd
 - - - 1/2 Max cd



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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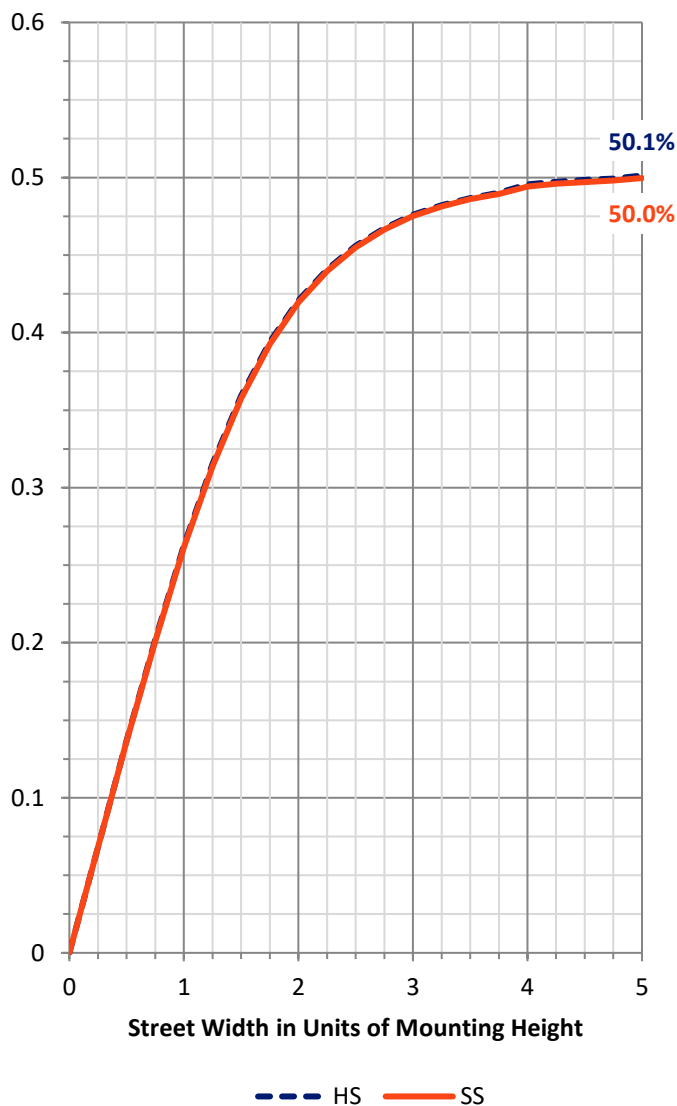
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5833.5	0.0	5833.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5833.5	0.0	5833.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11667.0	0.0	11667.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	0.7
10°-20°	267.2	2.3
20°-30°	555.2	4.8
30°-40°	1025.5	8.8
40°-50°	1801.6	15.4
50°-60°	2598.3	22.3
60°-70°	3180.1	27.3
70°-80°	2023.6	17.3
80°-90°	136.9	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°	11667.0	100.0
0°-180°	11667.0	100.0

Coefficient of Utilization



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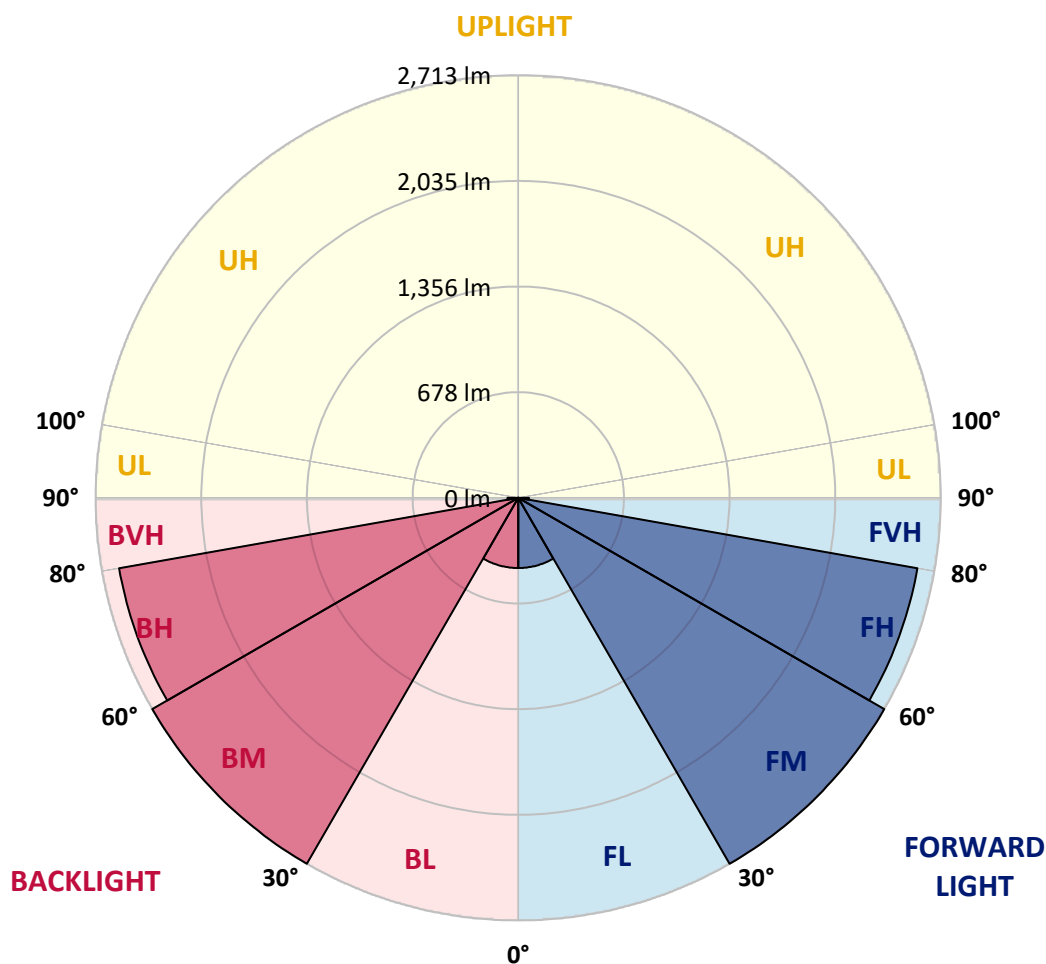
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	450.5	3.9			
FM	(30°-60°)	2712.7	23.3			
FH	(60°-80°)	2601.8	22.3			G2/5000
FVH	(80°-90°)	68.5	0.6			G1/100
BL	(0°-30°)	450.5	3.9	B1/500		
BM	(30°-60°)	2712.7	23.3	B3/5000		
BH	(60°-80°)	2601.8	22.3	B4/5000		G2/5000
BVH	(80°-90°)	68.5	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°	813.3	813.3	813.3	813.3	813.3	813.3	813.3	813.3	813.3	813.3	813.3
2.5°	824.1	824.1	822.0	822.0	817.6	815.5	813.3	813.3	811.1	811.1	809.0
5°	828.5	828.5	828.5	826.3	824.1	822.0	817.6	813.3	811.1	809.0	806.8
7.5°	830.7	830.7	828.5	828.5	826.3	824.1	817.6	811.1	809.0	806.8	806.8
10°	848.0	845.8	843.7	839.3	839.3	839.3	830.7	824.1	822.0	822.0	822.0
12.5°	889.2	887.0	882.7	876.2	876.2	878.4	865.4	856.7	856.7	854.5	854.5
15°	949.9	947.8	943.4	932.6	930.4	934.8	915.2	906.6	906.6	906.6	904.4
17.5°	1017.2	1012.8	1006.3	997.6	997.6	997.6	978.1	967.3	960.8	960.8	958.6
20°	1073.6	1071.4	1071.4	1069.2	1075.7	1075.7	1049.7	1032.3	1017.2	1008.5	1006.3
22.5°	1123.4	1121.3	1125.6	1134.3	1147.3	1151.6	1121.3	1095.2	1071.4	1054.0	1049.7
25°	1190.7	1188.5	1186.3	1199.3	1221.0	1227.5	1195.0	1162.5	1138.6	1129.9	1125.6
27.5°	1262.2	1264.4	1266.6	1279.6	1296.9	1307.8	1275.3	1244.9	1225.4	1212.4	1208.0
30°	1342.5	1346.8	1353.3	1372.9	1385.9	1390.2	1362.0	1340.3	1323.0	1312.1	1305.6
32.5°	1444.4	1453.1	1461.8	1479.1	1485.6	1481.3	1468.3	1453.1	1440.1	1424.9	1422.7
35°	1596.2	1604.9	1602.7	1609.2	1611.4	1607.1	1600.6	1591.9	1585.4	1565.9	1563.7
37.5°	1787.1	1795.8	1782.8	1776.2	1761.1	1763.2	1761.1	1767.6	1769.7	1750.2	1748.1
40°	1980.1	1988.8	1971.4	1954.1	1938.9	1932.4	1943.2	1964.9	1964.9	1951.9	1951.9
42.5°	2186.2	2192.7	2164.5	2142.8	2123.3	2118.9	2125.4	2151.4	2158.0	2155.8	2155.8
45°	2392.2	2387.8	2351.0	2329.3	2311.9	2301.1	2303.3	2322.8	2335.8	2342.3	2342.3
47.5°	2550.5	2544.0	2513.6	2496.3	2485.4	2470.3	2470.3	2481.1	2487.6	2489.8	2489.8
50°	2676.3	2669.8	2639.4	2637.3	2637.3	2630.8	2624.2	2622.1	2617.7	2619.9	2619.9
52.5°	2784.7	2776.1	2754.4	2758.7	2778.2	2782.6	2773.9	2756.5	2739.2	2732.7	2734.9
55°	2901.9	2888.8	2871.5	2884.5	2923.5	2940.9	2927.9	2893.2	2862.8	2843.3	2843.3
57.5°	2995.1	2979.9	2979.9	3016.8	3088.4	3123.1	3094.9	3029.8	2977.8	2956.1	2958.2
60°	2930.0	2917.0	2969.1	3131.7	3266.2	3324.8	3277.1	3162.1	3077.5	3051.5	3055.8
62.5°	2802.1	2793.4	2858.5	3110.1	3426.7	3548.2	3476.6	3311.8	3186.0	3155.6	3155.6
65°	2613.4	2611.2	2702.3	3012.5	3463.6	3762.9	3702.1	3474.4	3311.8	3270.6	3279.2
67.5°	2418.2	2418.2	2500.6	2845.5	3420.2	3854.0	3901.7	3621.9	3372.5	3270.6	3272.7
70°	2073.4	2110.2	2329.3	2691.5	3261.9	3788.9	3984.1	3517.8	3107.9	2927.9	2921.4
72.5°	1366.3	1414.1	1850.0	2422.5	3105.7	3552.5	3595.9	3090.5	2580.9	2370.5	2359.7
75°	824.1	865.4	1199.3	1891.2	2730.5	2860.6	2669.8	2422.5	1928.1	1763.2	1763.2
77.5°	242.9	271.1	553.0	1199.3	1889.0	1880.3	1646.1	1427.1	1140.8	969.5	982.5
80°	143.1	147.5	180.0	546.5	782.9	824.1	635.5	396.9	396.9	295.0	286.3
82.5°	110.6	110.6	114.9	136.6	188.7	210.4	160.5	136.6	156.2	132.3	125.8
85°	78.1	78.1	78.1	80.2	82.4	84.6	88.9	91.1	99.8	82.4	78.1
87.5°	23.9	26.0	28.2	32.5	39.0	41.2	43.4	39.0	39.0	36.9	34.7
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)