

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: P842557

Luminaire Tested: **ARCH4-60-750-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-60-750-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 520mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11428 lumens
Efficiency: N/A
Efficacy: 181.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B4 - U0 - G2

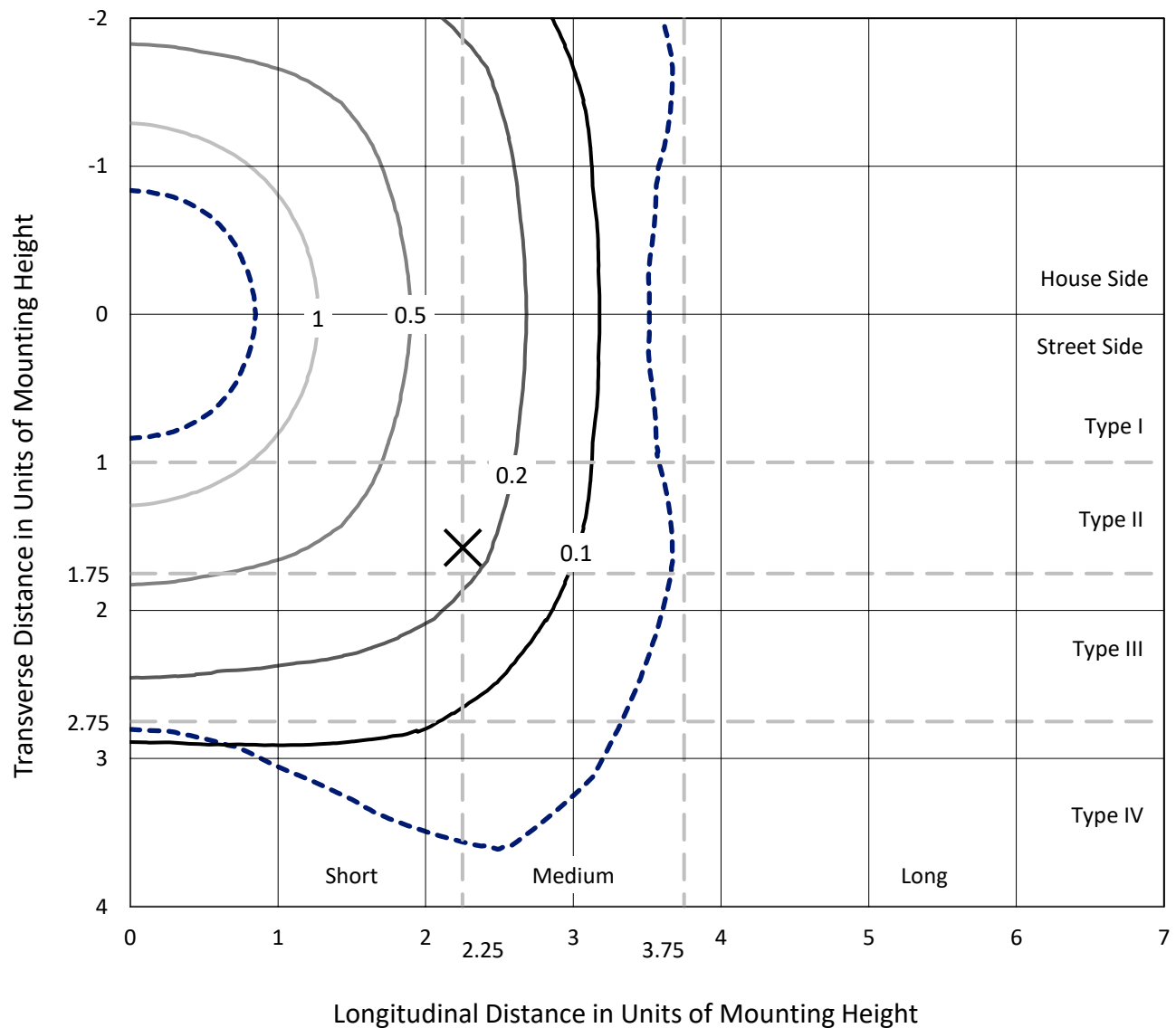
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

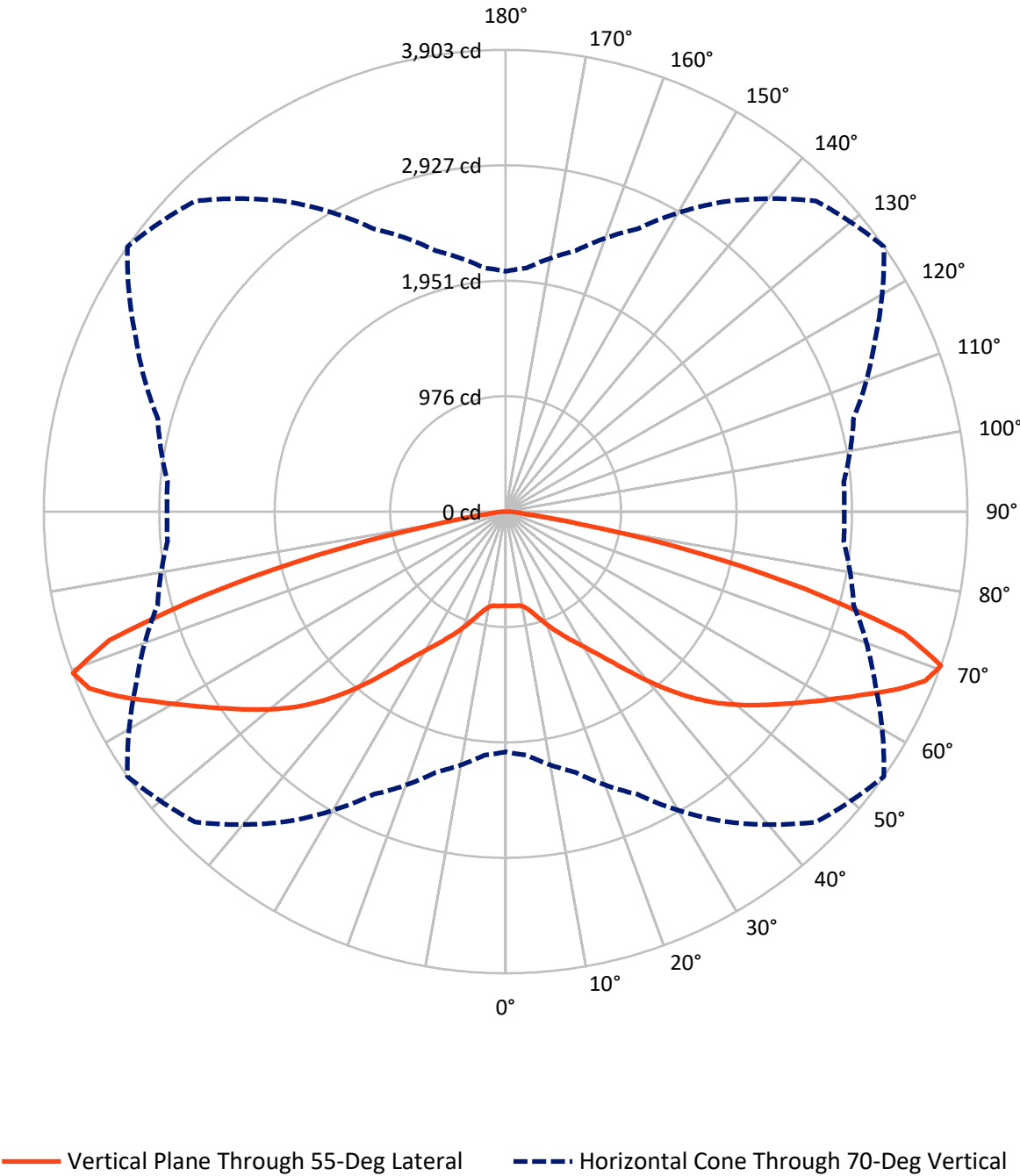
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type V - Medium - N/A

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Luminous Intensity Polar Plot



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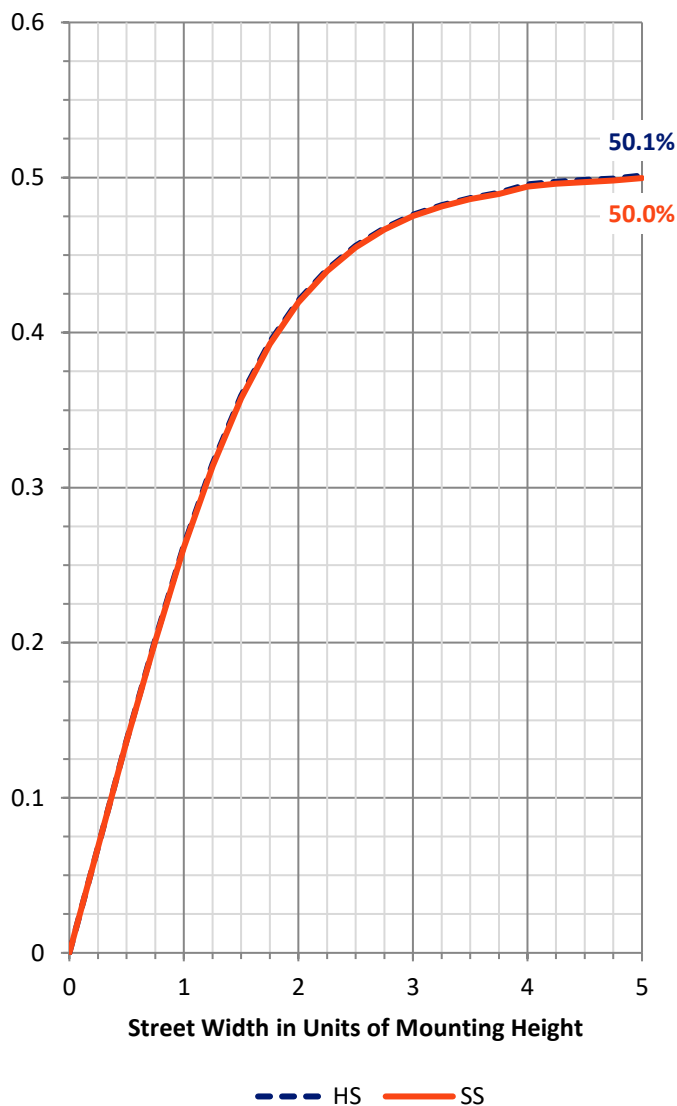
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5714.0	0.0	5714.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5714.0	0.0	5714.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11428.0	0.0	11428.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	0.7
10°-20°	261.7	2.3
20°-30°	543.9	4.8
30°-40°	1004.5	8.8
40°-50°	1764.7	15.4
50°-60°	2545.1	22.3
60°-70°	3114.9	27.3
70°-80°	1982.1	17.3
80°-90°	134.1	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°	11428.0	100.0
0°-180°	11428.0	100.0

Coefficient of Utilization



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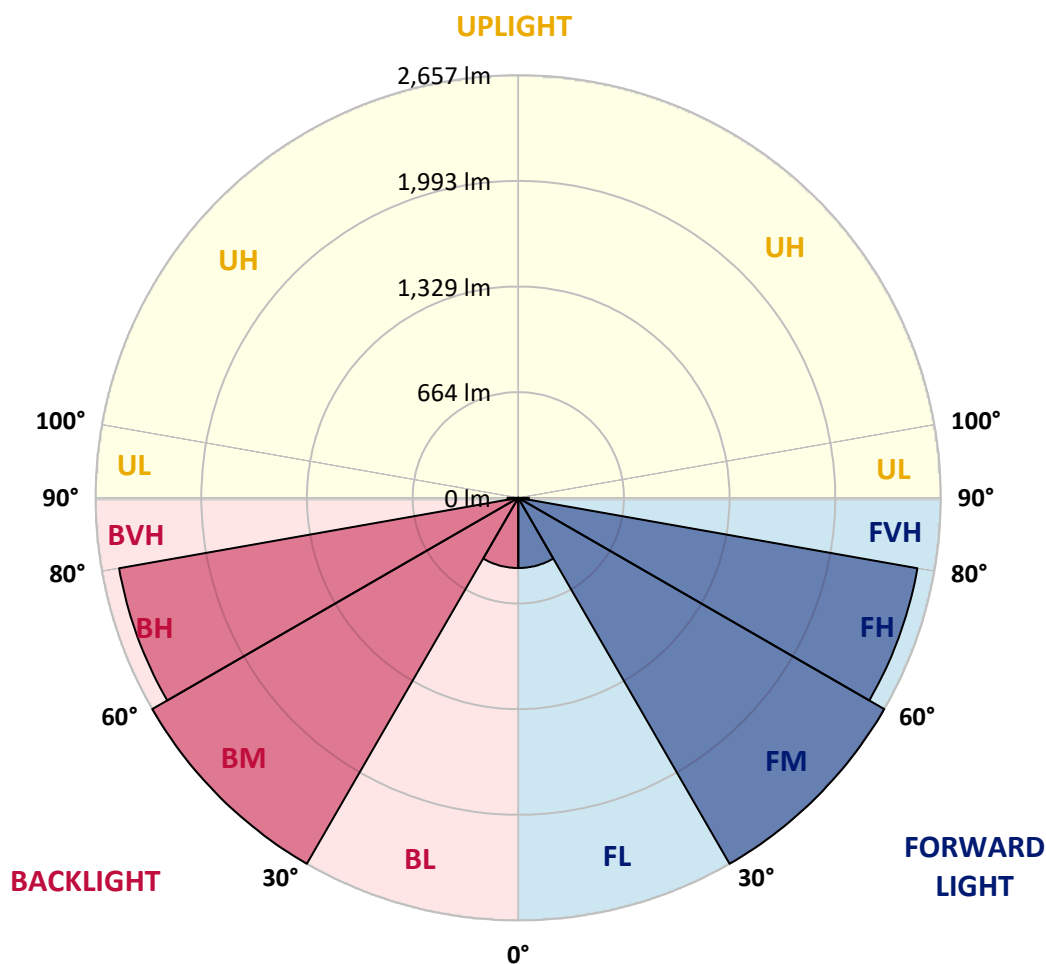
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	441.3	3.9			
FM	(30°-60°)	2657.2	23.3			
FH	(60°-80°)	2548.5	22.3			G2/5000
FVH	(80°-90°)	67.1	0.6			G1/100
BL	(0°-30°)	441.3	3.9	B1/500		
BM	(30°-60°)	2657.2	23.3	B3/5000		
BH	(60°-80°)	2548.5	22.3	B4/5000		G2/5000
BVH	(80°-90°)	67.1	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°	796.6	796.6	796.6	796.6	796.6	796.6	796.6	796.6	796.6	796.6	796.6
2.5°	807.3	807.3	805.1	805.1	800.9	798.8	796.6	796.6	794.5	794.5	792.4
5°	811.5	811.5	811.5	809.4	807.3	805.1	800.9	796.6	794.5	792.4	790.3
7.5°	813.6	813.6	811.5	811.5	809.4	807.3	800.9	794.5	792.4	790.3	790.3
10°	830.6	828.5	826.4	822.1	822.1	822.1	813.6	807.3	805.1	805.1	805.1
12.5°	871.0	868.9	864.6	858.2	858.2	860.4	847.6	839.1	839.1	837.0	837.0
15°	930.5	928.4	924.1	913.5	911.4	915.6	896.5	888.0	888.0	888.0	885.9
17.5°	996.3	992.1	985.7	977.2	977.2	977.2	958.1	947.5	941.1	941.1	939.0
20°	1051.6	1049.4	1049.4	1047.3	1053.7	1053.7	1028.2	1011.2	996.3	987.8	985.7
22.5°	1100.4	1098.3	1102.5	1111.0	1123.8	1128.0	1098.3	1072.8	1049.4	1032.4	1028.2
25°	1166.3	1164.2	1162.0	1174.8	1196.0	1202.4	1170.5	1138.7	1115.3	1106.8	1102.5
27.5°	1236.4	1238.5	1240.6	1253.4	1270.4	1281.0	1249.1	1219.4	1200.3	1187.5	1183.3
30°	1315.0	1319.2	1325.6	1344.7	1357.5	1361.7	1334.1	1312.9	1295.9	1285.2	1278.9
32.5°	1414.8	1423.3	1431.8	1448.8	1455.2	1450.9	1438.2	1423.3	1410.6	1395.7	1393.6
35°	1563.5	1572.0	1569.9	1576.3	1578.4	1574.2	1567.8	1559.3	1552.9	1533.8	1531.7
37.5°	1750.5	1759.0	1746.2	1739.9	1725.0	1727.1	1725.0	1731.4	1733.5	1714.4	1712.2
40°	1939.6	1948.0	1931.1	1914.1	1899.2	1892.8	1903.4	1924.7	1924.7	1911.9	1911.9
42.5°	2141.4	2147.7	2120.1	2098.9	2079.8	2075.5	2081.9	2107.4	2113.7	2111.6	2111.6
45°	2343.2	2338.9	2302.8	2281.6	2264.6	2254.0	2256.1	2275.2	2287.9	2294.3	2294.3
47.5°	2498.3	2491.9	2462.1	2445.2	2434.5	2419.7	2419.7	2430.3	2436.7	2438.8	2438.8
50°	2621.5	2615.1	2585.4	2583.2	2583.2	2576.9	2570.5	2568.4	2564.1	2566.2	2566.2
52.5°	2727.7	2719.2	2698.0	2702.2	2721.3	2725.6	2717.1	2700.1	2683.1	2676.7	2678.8
55°	2842.4	2829.7	2812.7	2825.4	2863.7	2880.6	2867.9	2833.9	2804.2	2785.1	2785.1
57.5°	2933.8	2918.9	2918.9	2955.0	3025.1	3059.1	3031.5	2967.7	2916.8	2895.5	2897.6
60°	2870.0	2857.3	2908.3	3067.6	3199.3	3256.7	3209.9	3097.3	3014.5	2989.0	2993.2
62.5°	2744.7	2736.2	2799.9	3046.3	3356.5	3475.5	3405.4	3243.9	3120.7	3091.0	3091.0
65°	2559.9	2557.7	2647.0	2950.8	3392.6	3685.8	3626.3	3403.2	3243.9	3203.6	3212.1
67.5°	2368.7	2368.7	2449.4	2787.2	3350.1	3775.0	3821.7	3547.7	3303.4	3203.6	3205.7
70°	2030.9	2067.0	2281.6	2636.3	3195.1	3711.3	3902.5	3445.7	3044.2	2867.9	2861.5
72.5°	1338.4	1385.1	1812.1	2372.9	3042.1	3479.7	3522.2	3027.2	2528.0	2321.9	2311.3
75°	807.3	847.6	1174.8	1852.5	2674.6	2802.0	2615.1	2372.9	1888.6	1727.1	1727.1
77.5°	237.9	265.5	541.7	1174.8	1850.3	1841.8	1612.4	1397.8	1117.4	949.6	962.3
80°	140.2	144.5	176.3	535.3	766.9	807.3	622.4	388.8	388.8	288.9	280.4
82.5°	108.3	108.3	112.6	133.8	184.8	206.1	157.2	133.8	153.0	129.6	123.2
85°	76.5	76.5	76.5	78.6	80.7	82.9	87.1	89.2	97.7	80.7	76.5
87.5°	23.4	25.5	27.6	31.9	38.2	40.4	42.5	38.2	38.2	36.1	34.0
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)