

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: P842728

Luminaire Tested: **ARCH4-90-722-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842728
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: ARCH4-90-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 765mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13766 lumens
Efficiency: N/A
Efficacy: 147.9 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

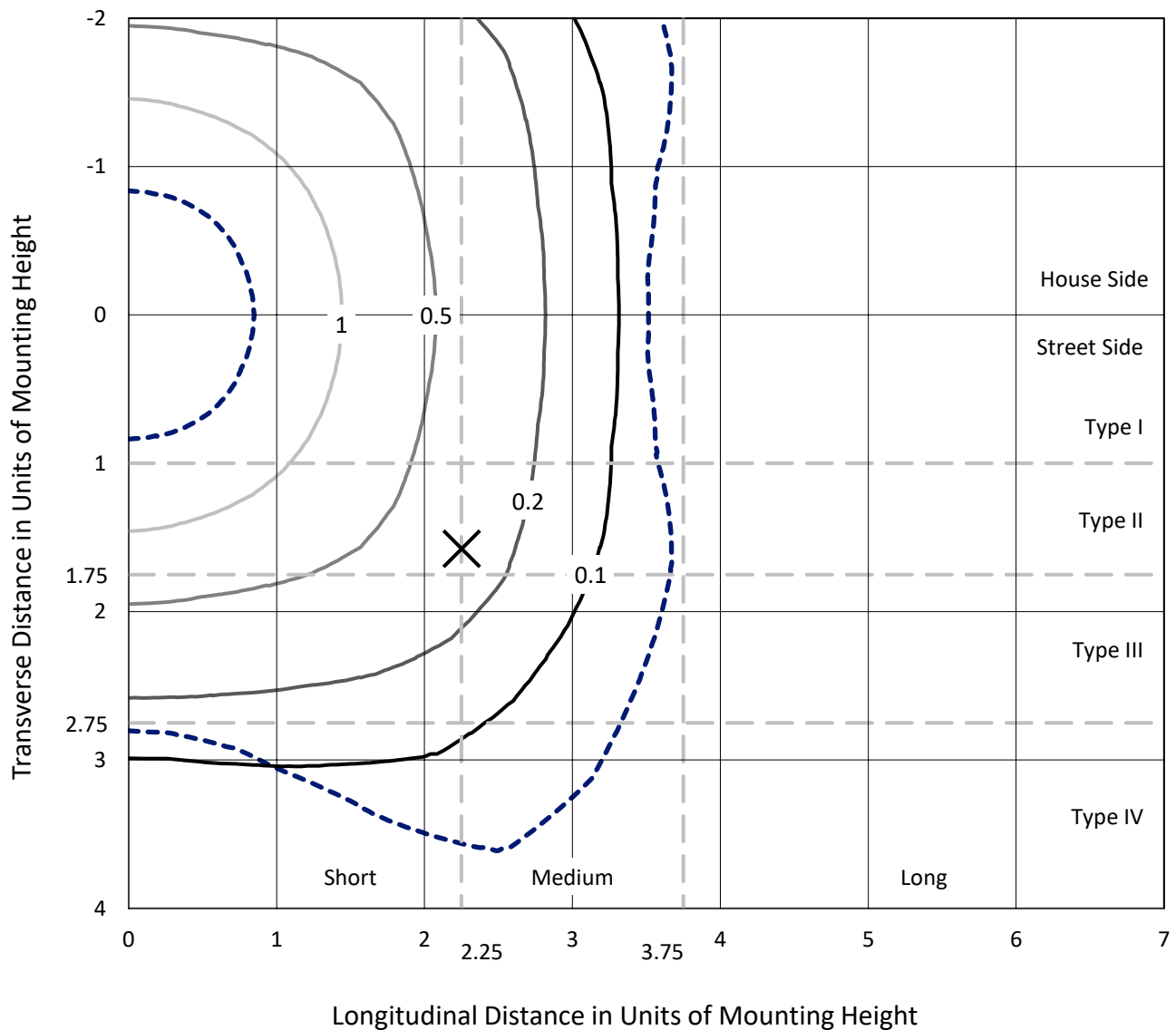
Input Watts (W): 93.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P842728
 CATALOG NUMBER: ARCH4-90-722-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

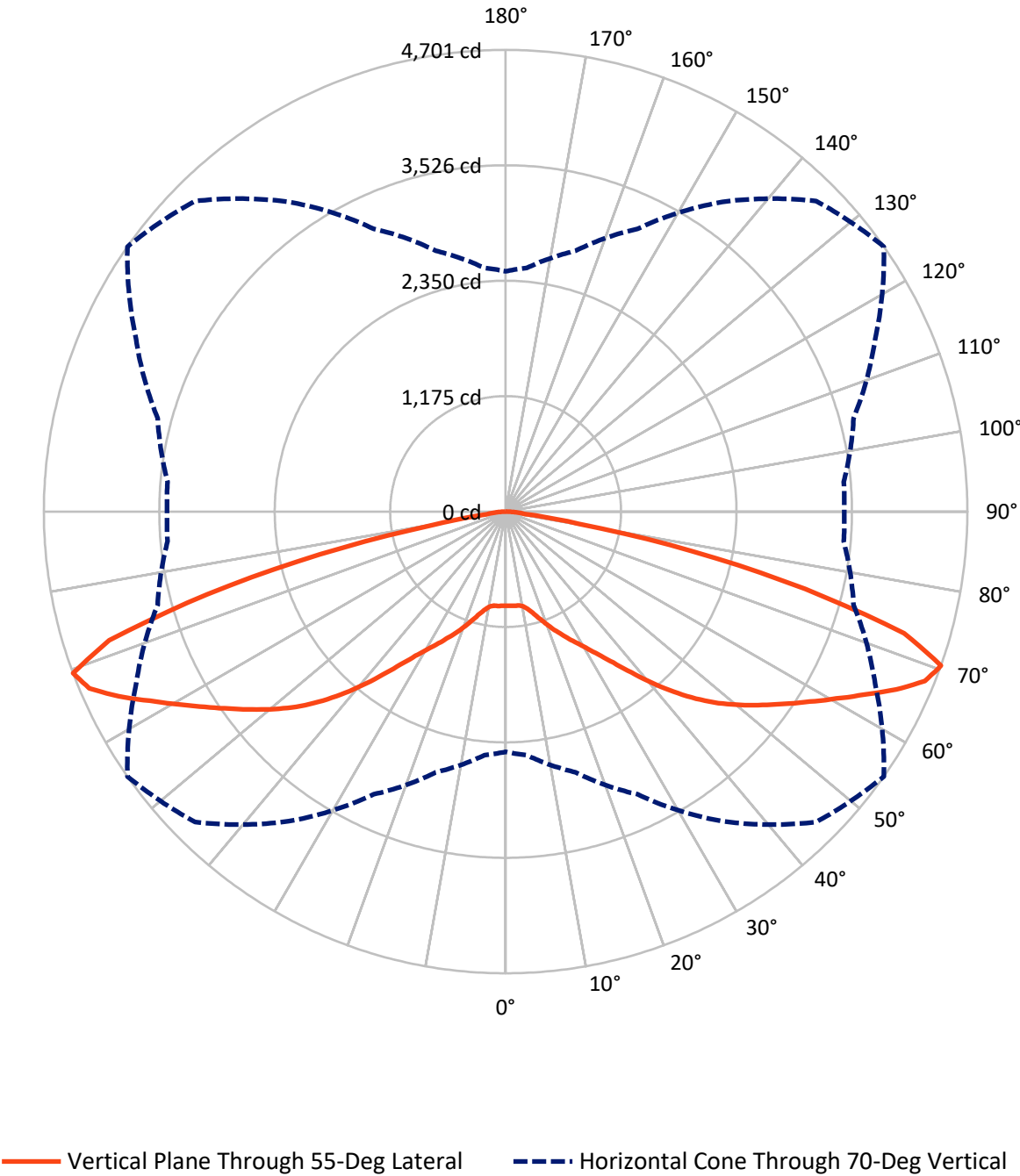
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type V - Medium - N/A

REPORT NUMBER: P842728
CATALOG NUMBER: ARCH4-90-722-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P842728

CATALOG NUMBER: ARCH4-90-722-U-5WQ

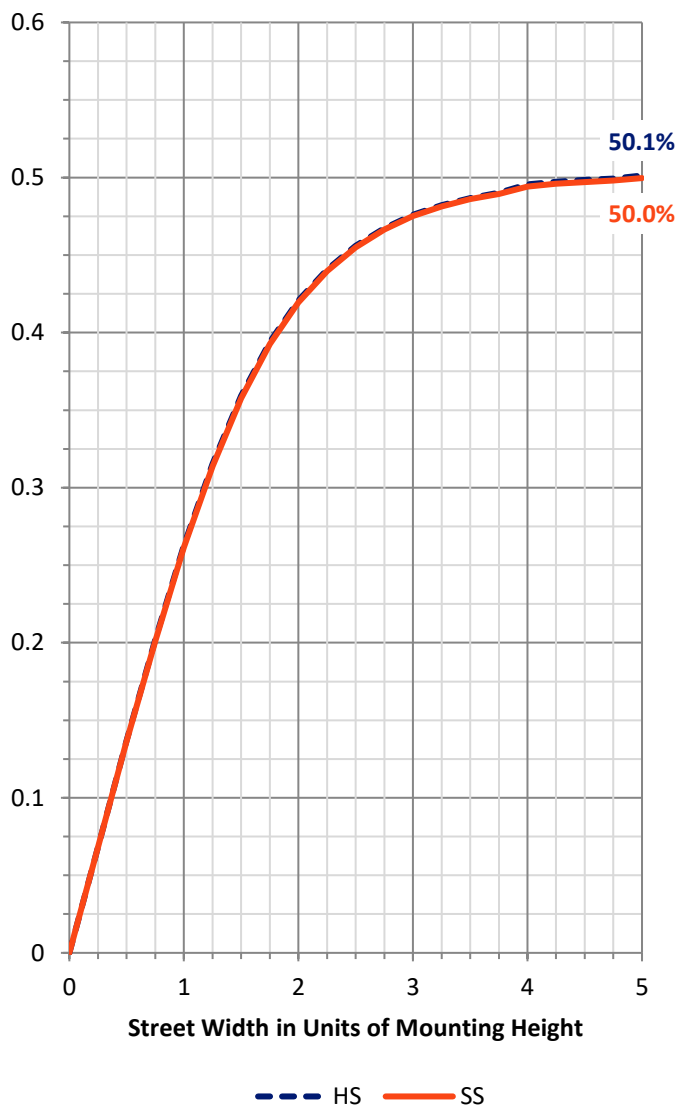
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6883.0	0.0	6883.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6883.0	0.0	6883.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13766.0	0.0	13766.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	0.7
10°-20°	315.3	2.3
20°-30°	655.1	4.8
30°-40°	1210.0	8.8
40°-50°	2125.7	15.4
50°-60°	3065.8	22.3
60°-70°	3752.2	27.3
70°-80°	2387.6	17.3
80°-90°	161.6	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°	13766.0	100.0
0°-180°	13766.0	100.0

Coefficient of Utilization



REPORT NUMBER: P842728

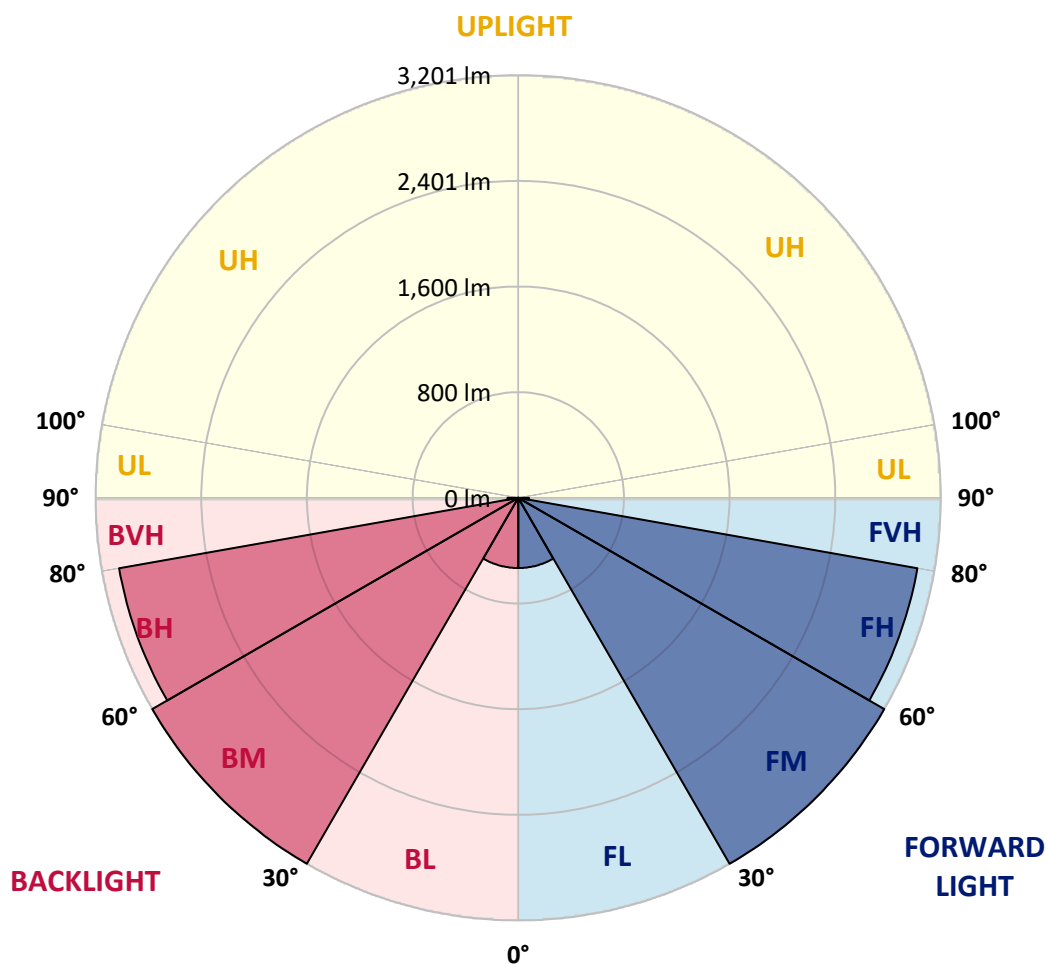
CATALOG NUMBER: ARCH4-90-722-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	531.5	3.9			
FM	(30°-60°)	3200.8	23.3			
FH	(60°-80°)	3069.9	22.3			G2/5000
FVH	(80°-90°)	80.8	0.6			G1/100
BL	(0°-30°)	531.5	3.9	B2/1000		
BM	(30°-60°)	3200.8	23.3	B3/5000		
BH	(60°-80°)	3069.9	22.3	B4/5000		G2/5000
BVH	(80°-90°)	80.8	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



REPORT NUMBER: P842728

CATALOG NUMBER: ARCH4-90-722-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	959.6	959.6	959.6	959.6	959.6	959.6	959.6	959.6	959.6	959.6	959.6
2.5°	972.4	972.4	969.9	969.9	964.7	962.2	959.6	959.6	957.1	957.1	954.5
5°	977.5	977.5	977.5	975.0	972.4	969.9	964.7	959.6	957.1	954.5	951.9
7.5°	980.1	980.1	977.5	977.5	975.0	972.4	964.7	957.1	954.5	951.9	951.9
10°	1000.6	998.0	995.4	990.3	990.3	990.3	980.1	972.4	969.9	969.9	969.9
12.5°	1049.2	1046.6	1041.5	1033.8	1033.8	1036.4	1021.0	1010.8	1010.8	1008.2	1008.2
15°	1120.8	1118.3	1113.2	1100.4	1097.8	1102.9	1079.9	1069.7	1069.7	1069.7	1067.1
17.5°	1200.2	1195.0	1187.4	1177.1	1177.1	1177.1	1154.1	1141.3	1133.6	1133.6	1131.1
20°	1266.7	1264.1	1264.1	1261.6	1269.3	1269.3	1238.5	1218.1	1200.2	1189.9	1187.4
22.5°	1325.6	1323.0	1328.1	1338.4	1353.7	1358.8	1323.0	1292.3	1264.1	1243.7	1238.5
25°	1404.9	1402.3	1399.8	1415.1	1440.7	1448.4	1410.0	1371.6	1343.5	1333.2	1328.1
27.5°	1489.3	1491.9	1494.4	1509.8	1530.3	1543.1	1504.7	1468.9	1445.8	1430.5	1425.4
30°	1584.0	1589.1	1596.8	1619.8	1635.2	1640.3	1607.0	1581.5	1561.0	1548.2	1540.5
32.5°	1704.3	1714.5	1724.8	1745.2	1752.9	1747.8	1732.4	1714.5	1699.2	1681.3	1678.7
35°	1883.4	1893.7	1891.1	1898.8	1901.3	1896.2	1888.5	1878.3	1870.6	1847.6	1845.0
37.5°	2108.6	2118.8	2103.5	2095.8	2077.9	2080.5	2077.9	2085.6	2088.1	2065.1	2062.5
40°	2336.4	2346.6	2326.1	2305.6	2287.7	2280.1	2292.9	2318.4	2318.4	2303.1	2303.1
42.5°	2579.5	2587.1	2553.9	2528.3	2505.2	2500.1	2507.8	2538.5	2546.2	2543.6	2543.6
45°	2822.6	2817.4	2773.9	2748.4	2727.9	2715.1	2717.6	2740.7	2756.0	2763.7	2763.7
47.5°	3009.4	3001.7	2965.9	2945.4	2932.6	2914.7	2914.7	2927.5	2935.2	2937.7	2937.7
50°	3157.8	3150.1	3114.3	3111.7	3111.7	3104.1	3096.4	3093.8	3088.7	3091.3	3091.3
52.5°	3285.7	3275.5	3249.9	3255.0	3278.1	3283.2	3272.9	3252.5	3232.0	3224.3	3226.9
55°	3423.9	3408.6	3388.1	3403.5	3449.5	3470.0	3454.6	3413.7	3377.9	3354.8	3354.8
57.5°	3534.0	3516.0	3516.0	3559.6	3644.0	3684.9	3651.7	3574.9	3513.5	3487.9	3490.5
60°	3457.2	3441.8	3503.3	3695.2	3853.8	3922.9	3866.6	3731.0	3631.2	3600.5	3605.6
62.5°	3306.2	3296.0	3372.7	3669.6	4043.2	4186.5	4102.1	3907.6	3759.2	3723.3	3723.3
65°	3083.6	3081.0	3188.5	3554.4	4086.7	4439.8	4368.2	4099.5	3907.6	3859.0	3869.2
67.5°	2853.3	2853.3	2950.5	3357.4	4035.5	4547.3	4603.6	4273.5	3979.2	3859.0	3861.5
70°	2446.4	2489.9	2748.4	3175.7	3848.7	4470.6	4700.9	4150.7	3667.0	3454.6	3447.0
72.5°	1612.2	1668.5	2182.8	2858.4	3664.5	4191.6	4242.8	3646.6	3045.2	2797.0	2784.2
75°	972.4	1021.0	1415.1	2231.4	3221.8	3375.3	3150.1	2858.4	2274.9	2080.5	2080.5
77.5°	286.6	319.9	652.5	1415.1	2228.9	2218.6	1942.3	1683.8	1346.0	1143.9	1159.2
80°	168.9	174.0	212.4	644.9	923.8	972.4	749.8	468.3	468.3	348.0	337.8
82.5°	130.5	130.5	135.6	161.2	222.6	248.2	189.4	161.2	184.2	156.1	148.4
85°	92.1	92.1	92.1	94.7	97.2	99.8	104.9	107.5	117.7	97.2	92.1
87.5°	28.1	30.7	33.3	38.4	46.1	48.6	51.2	46.1	46.1	43.5	40.9
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)