

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: P836827

Luminaire Tested: **ARCH3-80-730-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836827
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: ARCH3-80-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 650mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12897 lumens
Efficiency: N/A
Efficacy: 157.5 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): 81.9
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



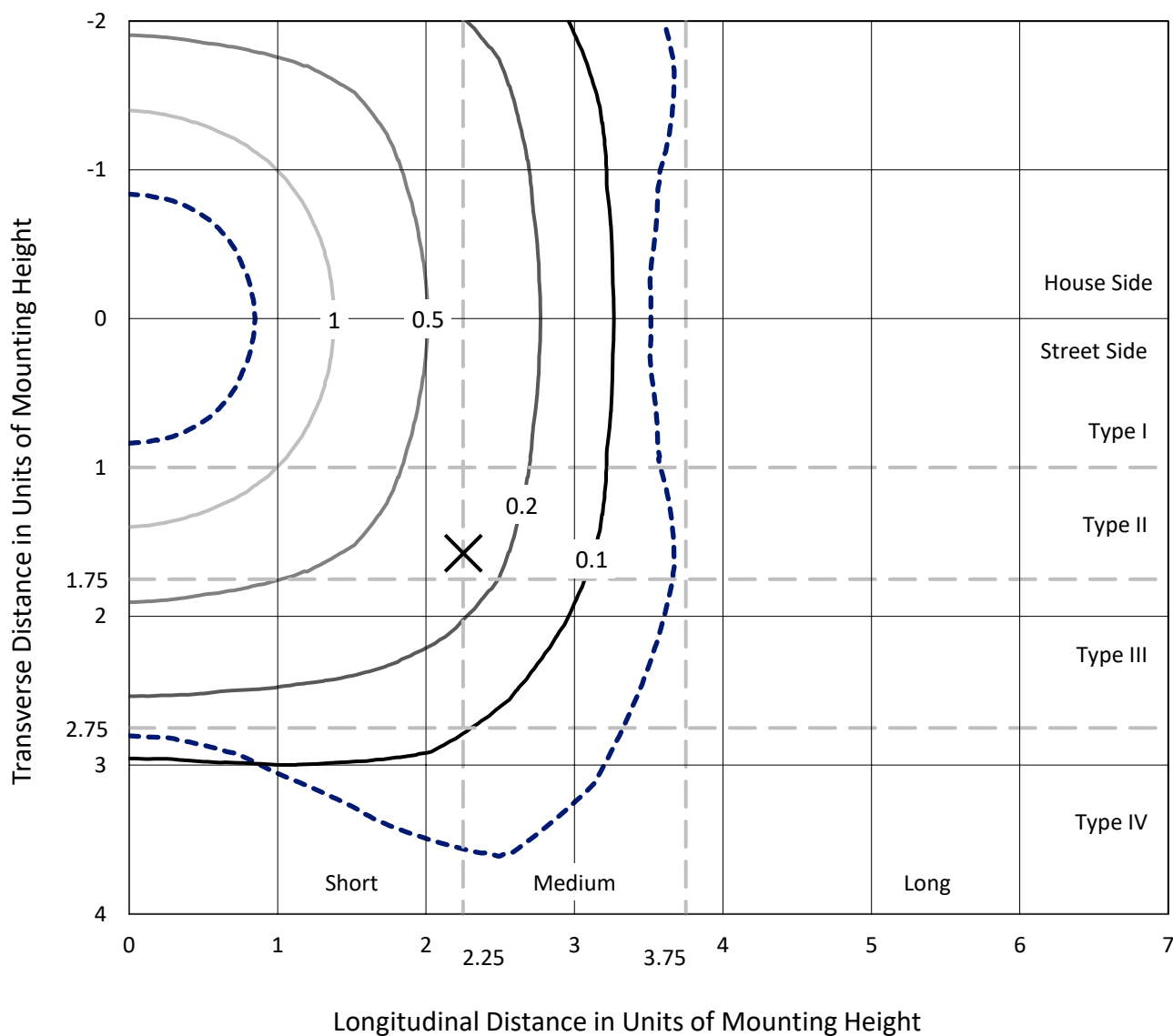
REPORT NUMBER: P836827

CATALOG NUMBER: ARCH3-80-730-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

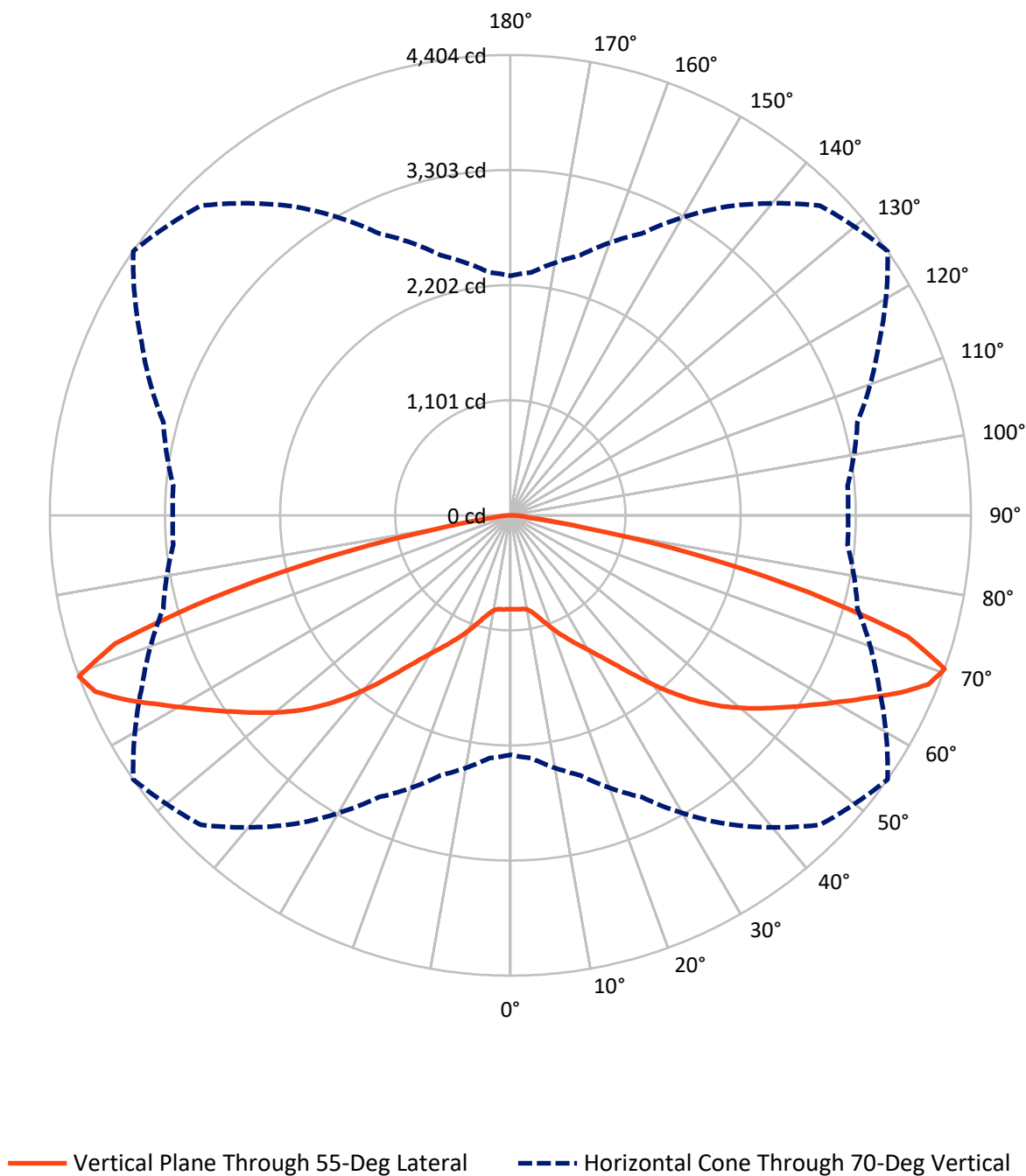
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
Type V - Medium - N/A

REPORT NUMBER: P836827
CATALOG NUMBER: ARCH3-80-730-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P836827

CATALOG NUMBER: ARCH3-80-730-U-5WQ

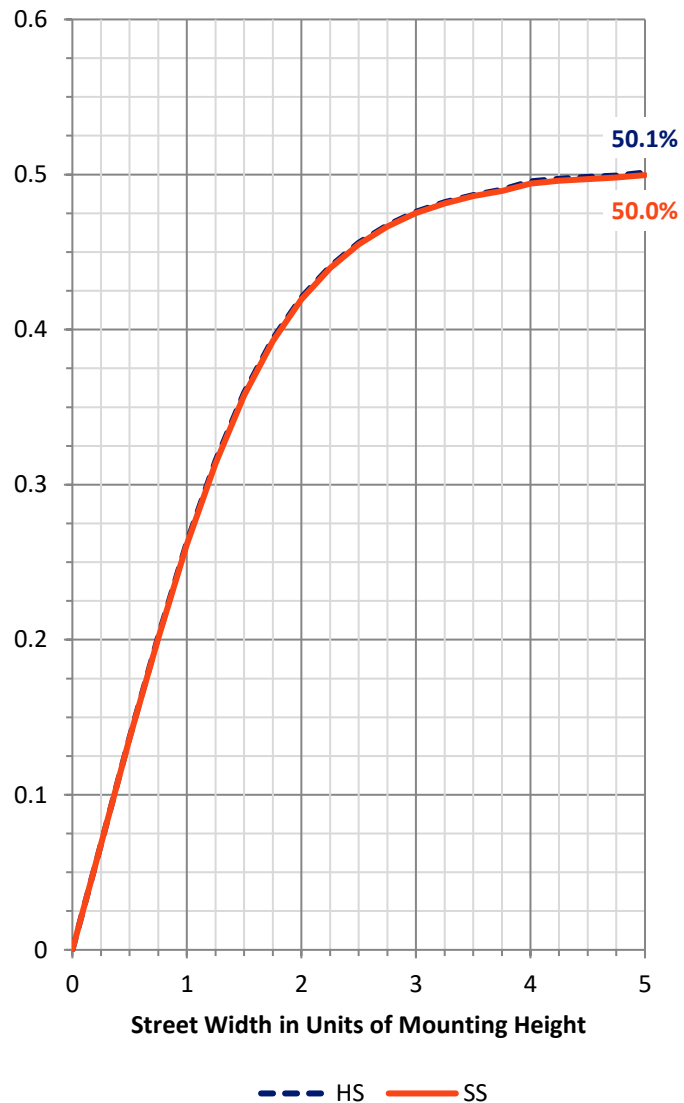
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6448.5	0.0	6448.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6448.5	0.0	6448.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12897.0	0.0	12897.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	0.7
10°-20°	295.4	2.3
20°-30°	613.8	4.8
30°-40°	1133.6	8.8
40°-50°	1991.5	15.4
50°-60°	2872.3	22.3
60°-70°	3515.3	27.3
70°-80°	2236.9	17.3
80°-90°	151.4	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°	12897.0	100.0
0°-180°	12897.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836827

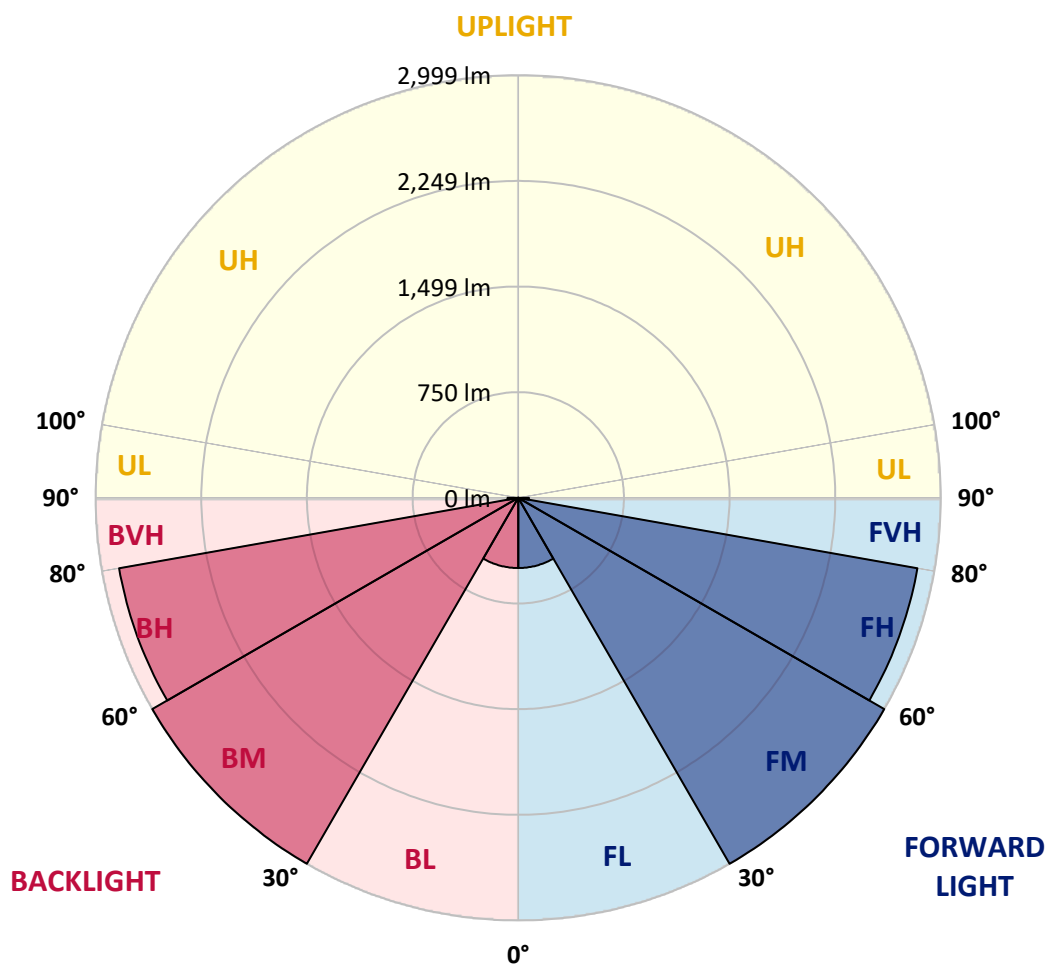
CATALOG NUMBER: ARCH3-80-730-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	498.0	3.9			
FM	(30°-60°)	2998.7	23.3			
FH	(60°-80°)	2876.1	22.3			G2/5000
FVH	(80°-90°)	75.7	0.6			G1/100
BL	(0°-30°)	498.0	3.9	B1/500		
BM	(30°-60°)	2998.7	23.3	B3/5000		
BH	(60°-80°)	2876.1	22.3	B4/5000		G2/5000
BVH	(80°-90°)	75.7	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: P836827

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	899.0	899.0	899.0	899.0	899.0	899.0	899.0	899.0	899.0	899.0	899.0
2.5°	911.0	911.0	908.6	908.6	903.8	901.4	899.0	899.0	896.6	896.6	894.2
5°	915.8	915.8	915.8	913.4	911.0	908.6	903.8	899.0	896.6	894.2	891.9
7.5°	918.2	918.2	915.8	915.8	913.4	911.0	903.8	896.6	894.2	891.9	891.9
10°	937.4	935.0	932.6	927.8	927.8	927.8	918.2	911.0	908.6	908.6	908.6
12.5°	983.0	980.6	975.8	968.6	968.6	971.0	956.6	947.0	947.0	944.6	944.6
15°	1050.1	1047.7	1042.9	1030.9	1028.5	1033.3	1011.7	1002.1	1002.1	1002.1	999.7
17.5°	1124.4	1119.6	1112.4	1102.8	1102.8	1102.8	1081.2	1069.3	1062.1	1062.1	1059.7
20°	1186.7	1184.3	1184.3	1181.9	1189.1	1189.1	1160.4	1141.2	1124.4	1114.8	1112.4
22.5°	1241.9	1239.5	1244.3	1253.9	1268.2	1273.0	1239.5	1210.7	1184.3	1165.2	1160.4
25°	1316.2	1313.8	1311.4	1325.8	1349.8	1357.0	1321.0	1285.0	1258.7	1249.1	1244.3
27.5°	1395.3	1397.7	1400.1	1414.5	1433.7	1445.7	1409.7	1376.1	1354.6	1340.2	1335.4
30°	1484.0	1488.8	1496.0	1517.6	1532.0	1536.8	1505.6	1481.6	1462.4	1450.5	1443.3
32.5°	1596.7	1606.3	1615.9	1635.1	1642.3	1637.5	1623.1	1606.3	1591.9	1575.1	1572.7
35°	1764.5	1774.1	1771.7	1778.9	1781.3	1776.5	1769.3	1759.7	1752.5	1731.0	1728.6
37.5°	1975.5	1985.1	1970.7	1963.5	1946.7	1949.1	1946.7	1953.9	1956.3	1934.7	1932.3
40°	2188.9	2198.5	2179.3	2160.1	2143.3	2136.1	2148.1	2172.1	2172.1	2157.7	2157.7
42.5°	2416.6	2423.8	2392.7	2368.7	2347.1	2342.3	2349.5	2378.3	2385.5	2383.1	2383.1
45°	2644.4	2639.6	2598.8	2574.9	2555.7	2543.7	2546.1	2567.7	2582.1	2589.2	2589.2
47.5°	2819.4	2812.2	2778.6	2759.5	2747.5	2730.7	2730.7	2742.7	2749.9	2752.3	2752.3
50°	2958.4	2951.3	2917.7	2915.3	2915.3	2908.1	2900.9	2898.5	2893.7	2896.1	2896.1
52.5°	3078.3	3068.7	3044.8	3049.6	3071.1	3075.9	3066.3	3047.2	3028.0	3020.8	3023.2
55°	3207.8	3193.4	3174.2	3188.6	3231.8	3250.9	3236.6	3198.2	3164.6	3143.1	3143.1
57.5°	3310.9	3294.1	3294.1	3334.8	3414.0	3452.3	3421.2	3349.2	3291.7	3267.7	3270.1
60°	3239.0	3224.6	3282.1	3461.9	3610.6	3675.3	3622.5	3495.5	3402.0	3373.2	3378.0
62.5°	3097.5	3087.9	3159.8	3437.9	3788.0	3922.2	3843.1	3660.9	3521.8	3488.3	3488.3
65°	2888.9	2886.5	2987.2	3330.1	3828.7	4159.6	4092.4	3840.7	3660.9	3615.3	3624.9
67.5°	2673.2	2673.2	2764.3	3145.5	3780.8	4260.3	4313.0	4003.7	3728.0	3615.3	3617.7
70°	2292.0	2332.7	2574.9	2975.2	3605.8	4188.3	4404.1	3888.7	3435.5	3236.6	3229.4
72.5°	1510.4	1563.1	2045.0	2677.9	3433.1	3927.0	3975.0	3416.4	2853.0	2620.4	2608.4
75°	911.0	956.6	1325.8	2090.6	3018.4	3162.2	2951.3	2677.9	2131.3	1949.1	1949.1
77.5°	268.5	299.7	611.3	1325.8	2088.2	2078.6	1819.7	1577.5	1261.1	1071.7	1086.0
80°	158.2	163.0	199.0	604.2	865.5	911.0	702.5	438.7	438.7	326.1	316.5
82.5°	122.3	122.3	127.1	151.0	208.6	232.6	177.4	151.0	172.6	146.2	139.1
85°	86.3	86.3	86.3	88.7	91.1	93.5	98.3	100.7	110.3	91.1	86.3
87.5°	26.4	28.8	31.2	36.0	43.2	45.6	47.9	43.2	43.2	40.8	38.4
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)