

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: P842377

Luminaire Tested: **ARCH4-40-727-U-5WQ**

Issue Date: 5/27/2024

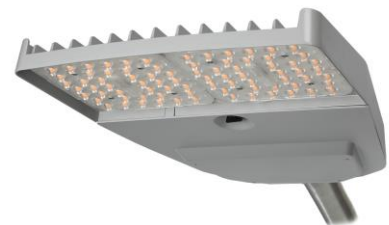
Test Information

Test Method: LM-79-08
Report Number: P842377
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: ARCH4-40-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 355mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7239 lumens
Efficiency: N/A
Efficacy: 165.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B3 - U0 - G1

Input Watts (W): 43.8
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



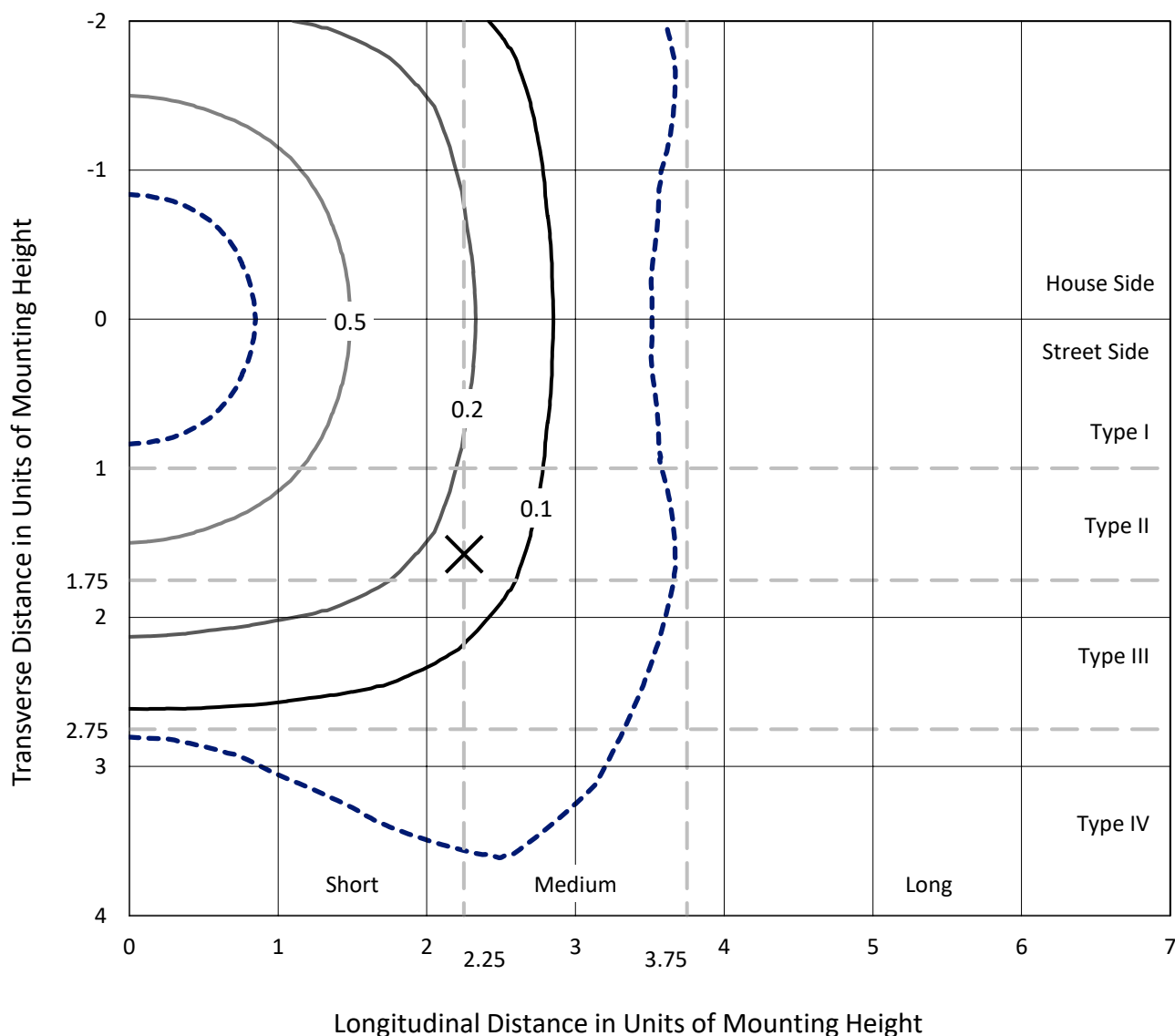
REPORT NUMBER: P842377

CATALOG NUMBER: ARCH4-40-727-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

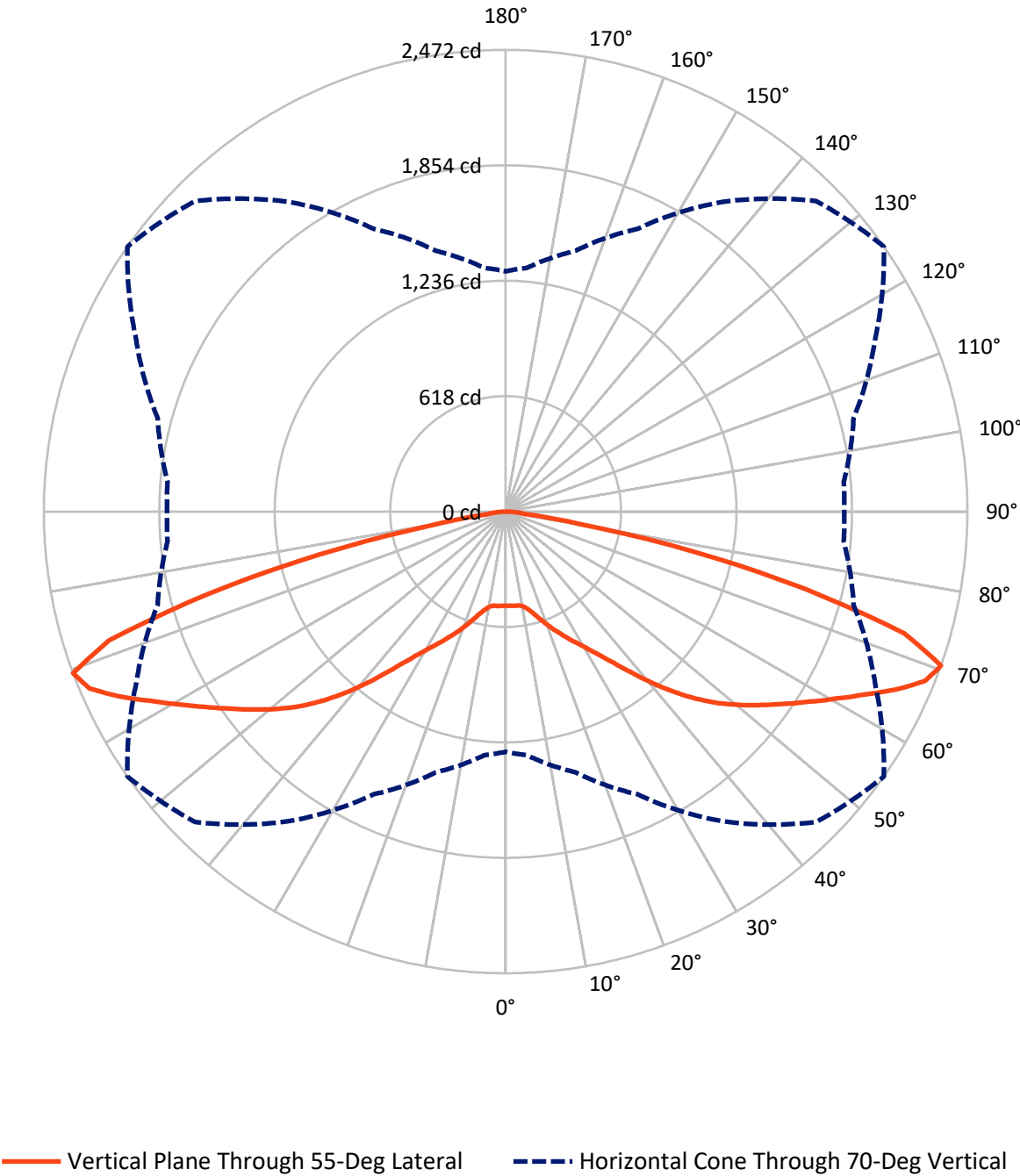
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
Type V - Medium - N/A

REPORT NUMBER: P842377
CATALOG NUMBER: ARCH4-40-727-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P842377

CATALOG NUMBER: ARCH4-40-727-U-5WQ

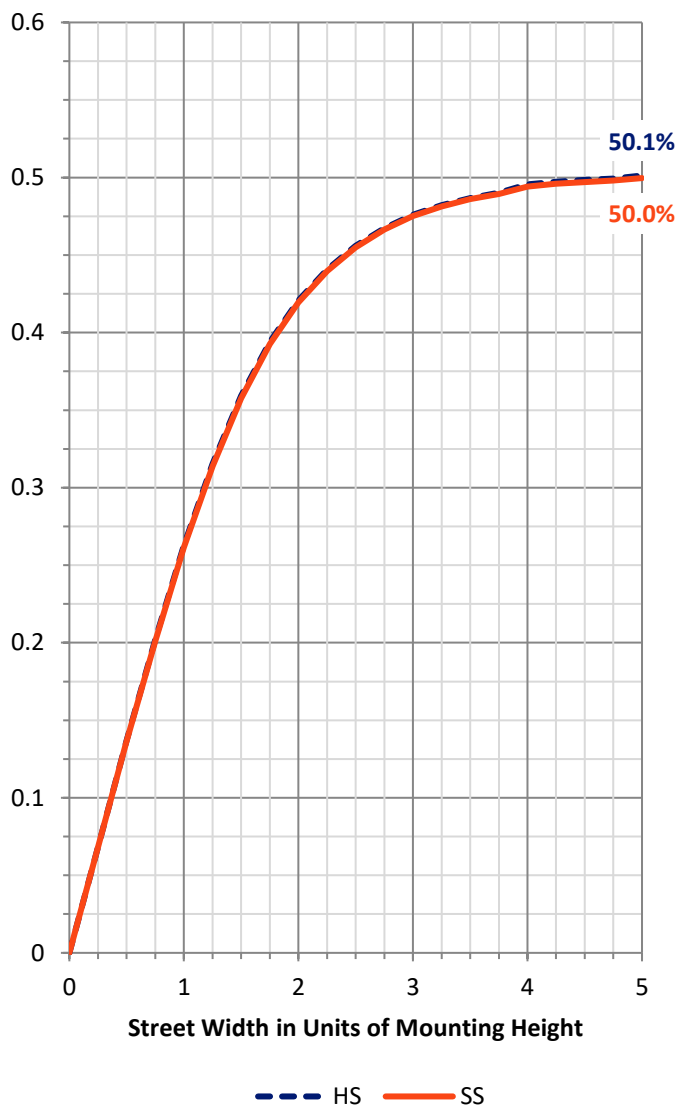
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3619.5	0.0	3619.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3619.5	0.0	3619.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7239.0	0.0	7239.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	0.7
10°-20°	165.8	2.3
20°-30°	344.5	4.8
30°-40°	636.3	8.8
40°-50°	1117.8	15.4
50°-60°	1612.2	22.3
60°-70°	1973.1	27.3
70°-80°	1255.6	17.3
80°-90°	85.0	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°	7239.0	100.0
0°-180°	7239.0	100.0

Coefficient of Utilization



REPORT NUMBER: P842377

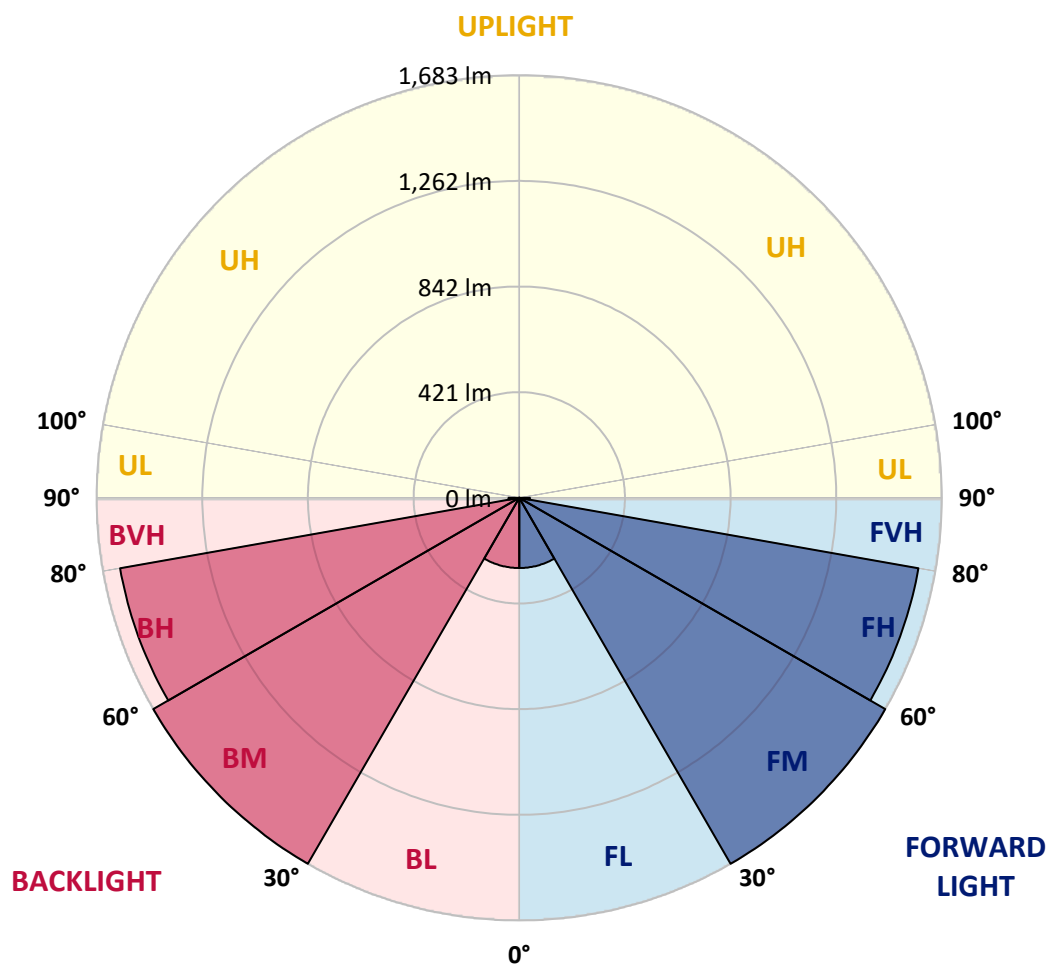
CATALOG NUMBER: ARCH4-40-727-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	279.5	3.9			
FM	(30°-60°)	1683.2	23.3			
FH	(60°-80°)	1614.3	22.3			G1/1800
FVH	(80°-90°)	42.5	0.6			G1/100
BL	(0°-30°)	279.5	3.9	B1/500		
BM	(30°-60°)	1683.2	23.3	B2/2500		
BH	(60°-80°)	1614.3	22.3	B3/2500		G1/1800
BVH	(80°-90°)	42.5	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Medium



REPORT NUMBER: P842377

CATALOG NUMBER: ARCH4-40-727-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	504.6	504.6	504.6	504.6	504.6	504.6	504.6	504.6	504.6	504.6	504.6
2.5°	511.4	511.4	510.0	510.0	507.3	506.0	504.6	504.6	503.3	503.3	501.9
5°	514.0	514.0	514.0	512.7	511.4	510.0	507.3	504.6	503.3	501.9	500.6
7.5°	515.4	515.4	514.0	514.0	512.7	511.4	507.3	503.3	501.9	500.6	500.6
10°	526.2	524.8	523.5	520.8	520.8	520.8	515.4	511.4	510.0	510.0	510.0
12.5°	551.7	550.4	547.7	543.7	543.7	545.0	536.9	531.5	531.5	530.2	530.2
15°	589.4	588.1	585.4	578.6	577.3	580.0	567.9	562.5	562.5	562.5	561.1
17.5°	631.1	628.4	624.4	619.0	619.0	619.0	606.9	600.2	596.1	596.1	594.8
20°	666.1	664.8	664.8	663.4	667.5	667.5	651.3	640.5	631.1	625.7	624.4
22.5°	697.1	695.7	698.4	703.8	711.9	714.6	695.7	679.6	664.8	654.0	651.3
25°	738.8	737.4	736.1	744.2	757.6	761.6	741.5	721.3	706.5	701.1	698.4
27.5°	783.2	784.5	785.9	793.9	804.7	811.4	791.3	772.4	760.3	752.2	749.5
30°	833.0	835.7	839.7	851.8	859.9	862.6	845.1	831.6	820.9	814.1	810.1
32.5°	896.2	901.6	907.0	917.7	921.8	919.1	911.0	901.6	893.5	884.1	882.8
35°	990.4	995.8	994.5	998.5	999.8	997.1	993.1	987.7	983.7	971.6	970.2
37.5°	1108.8	1114.2	1106.1	1102.1	1092.7	1094.0	1092.7	1096.7	1098.1	1086.0	1084.6
40°	1228.6	1234.0	1223.2	1212.4	1203.0	1199.0	1205.7	1219.2	1219.2	1211.1	1211.1
42.5°	1356.4	1360.5	1343.0	1329.5	1317.4	1314.7	1318.8	1334.9	1338.9	1337.6	1337.6
45°	1484.3	1481.6	1458.7	1445.3	1434.5	1427.8	1429.1	1441.2	1449.3	1453.3	1453.3
47.5°	1582.5	1578.5	1559.6	1548.9	1542.1	1532.7	1532.7	1539.4	1543.5	1544.8	1544.8
50°	1660.6	1656.5	1637.7	1636.3	1636.3	1632.3	1628.3	1626.9	1624.2	1625.6	1625.6
52.5°	1727.8	1722.5	1709.0	1711.7	1723.8	1726.5	1721.1	1710.3	1699.6	1695.5	1696.9
55°	1800.5	1792.4	1781.7	1789.7	1814.0	1824.7	1816.7	1795.1	1776.3	1764.2	1764.2
57.5°	1858.4	1849.0	1849.0	1871.8	1916.2	1937.8	1920.3	1879.9	1847.6	1834.1	1835.5
60°	1818.0	1809.9	1842.2	1943.1	2026.6	2062.9	2033.3	1962.0	1909.5	1893.4	1896.1
62.5°	1738.6	1733.2	1773.6	1929.7	2126.2	2201.5	2157.1	2054.8	1976.8	1958.0	1958.0
65°	1621.5	1620.2	1676.7	1869.1	2149.0	2334.7	2297.1	2155.8	2054.8	2029.3	2034.7
67.5°	1500.4	1500.4	1551.6	1765.5	2122.1	2391.3	2420.9	2247.3	2092.5	2029.3	2030.6
70°	1286.5	1309.3	1445.3	1670.0	2023.9	2350.9	2472.0	2182.7	1928.3	1816.7	1812.6
72.5°	847.8	877.4	1147.9	1503.1	1927.0	2204.2	2231.1	1917.6	1601.3	1470.8	1464.1
75°	511.4	536.9	744.2	1173.4	1694.2	1774.9	1656.5	1503.1	1196.3	1094.0	1094.0
77.5°	150.7	168.2	343.1	744.2	1172.1	1166.7	1021.4	885.5	707.8	601.5	609.6
80°	88.8	91.5	111.7	339.1	485.8	511.4	394.3	246.3	246.3	183.0	177.6
82.5°	68.6	68.6	71.3	84.8	117.1	130.5	99.6	84.8	96.9	82.1	78.0
85°	48.4	48.4	48.4	49.8	51.1	52.5	55.2	56.5	61.9	51.1	48.4
87.5°	14.8	16.1	17.5	20.2	24.2	25.6	26.9	24.2	24.2	22.9	21.5
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)