

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: P836890

Luminaire Tested: **ARCH3-90-727-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836890
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: ARCH3-90-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13877 lumens
Efficiency: N/A
Efficacy: 149.1 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

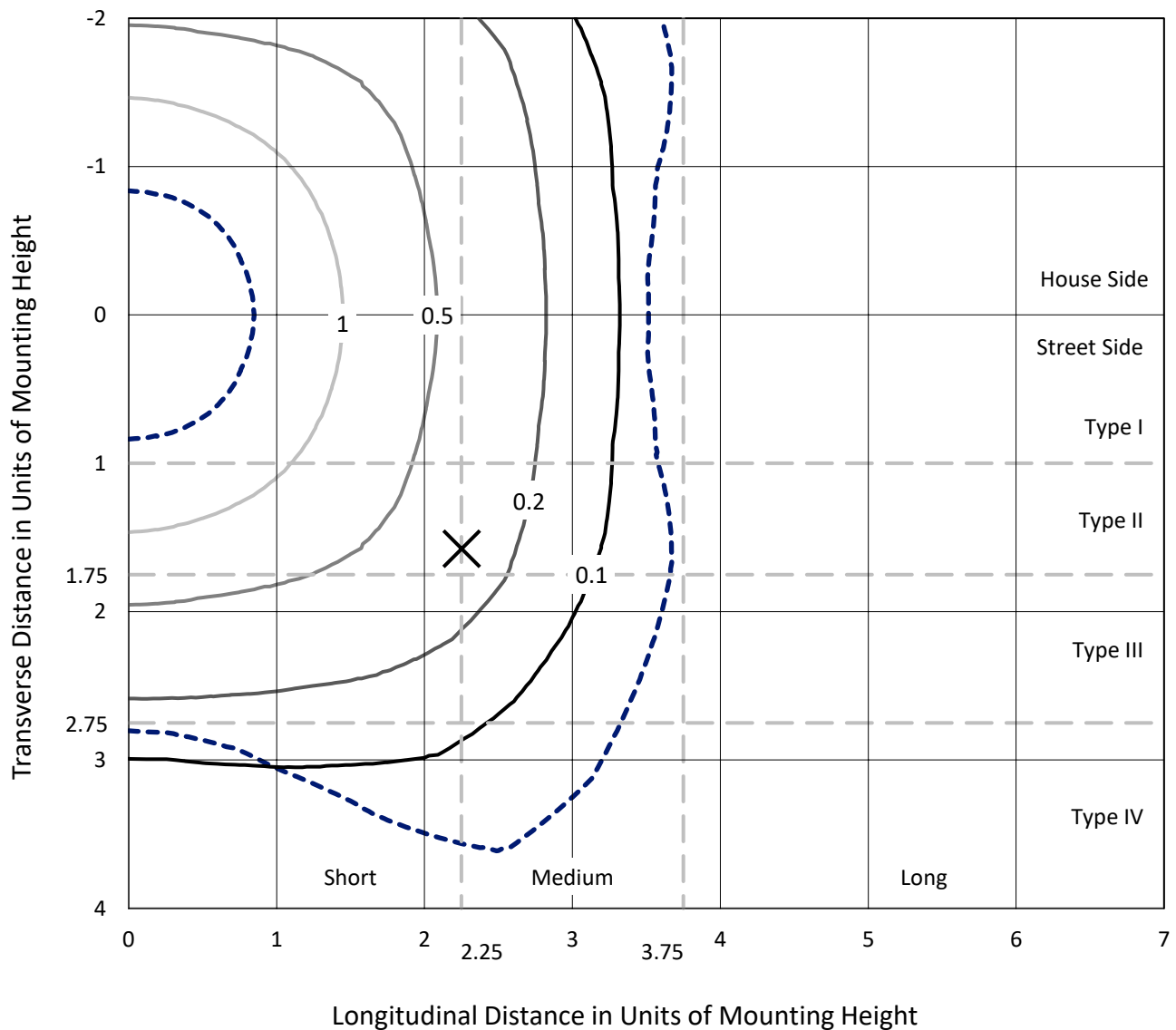
Input Watts (W): 93.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

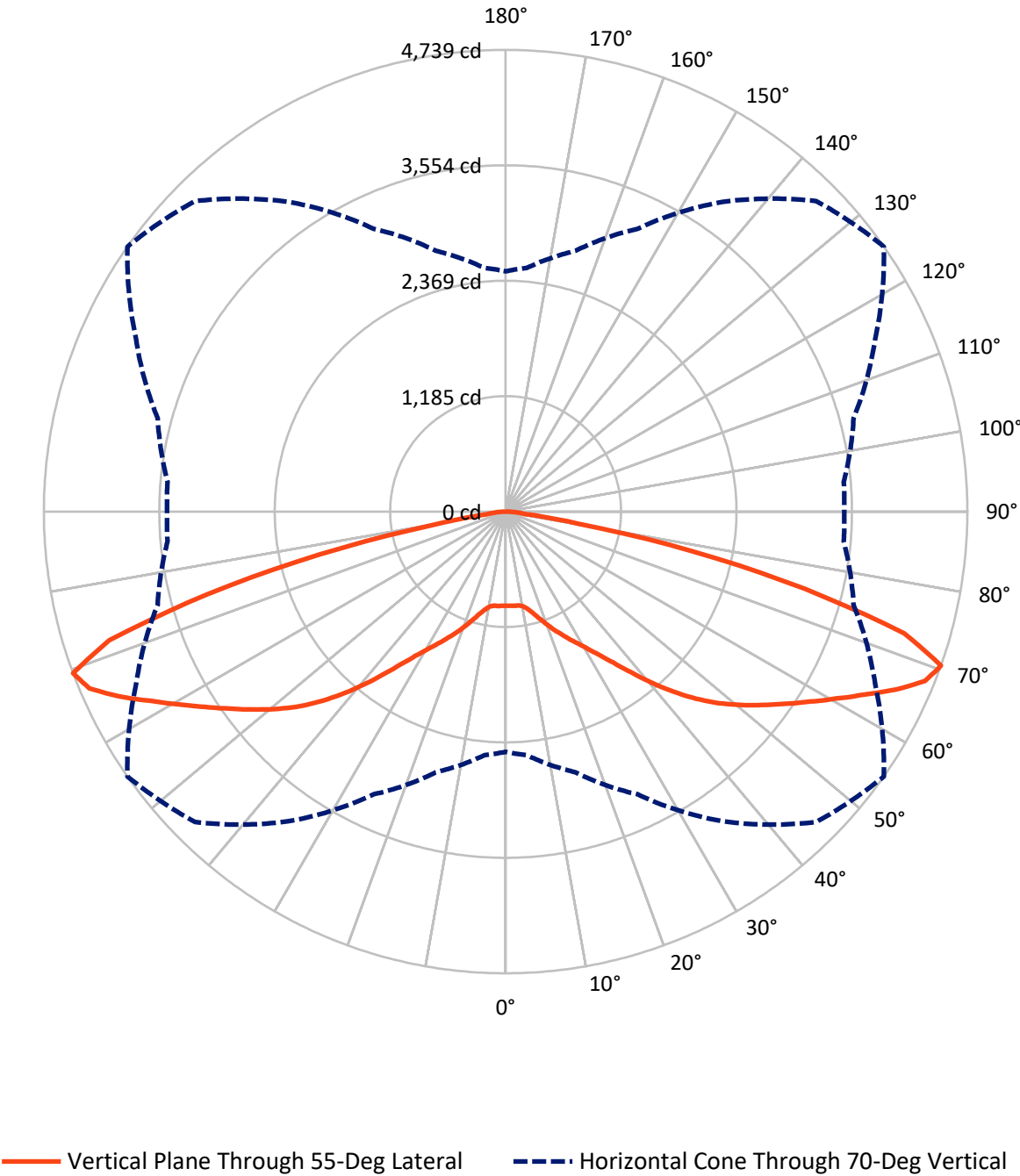
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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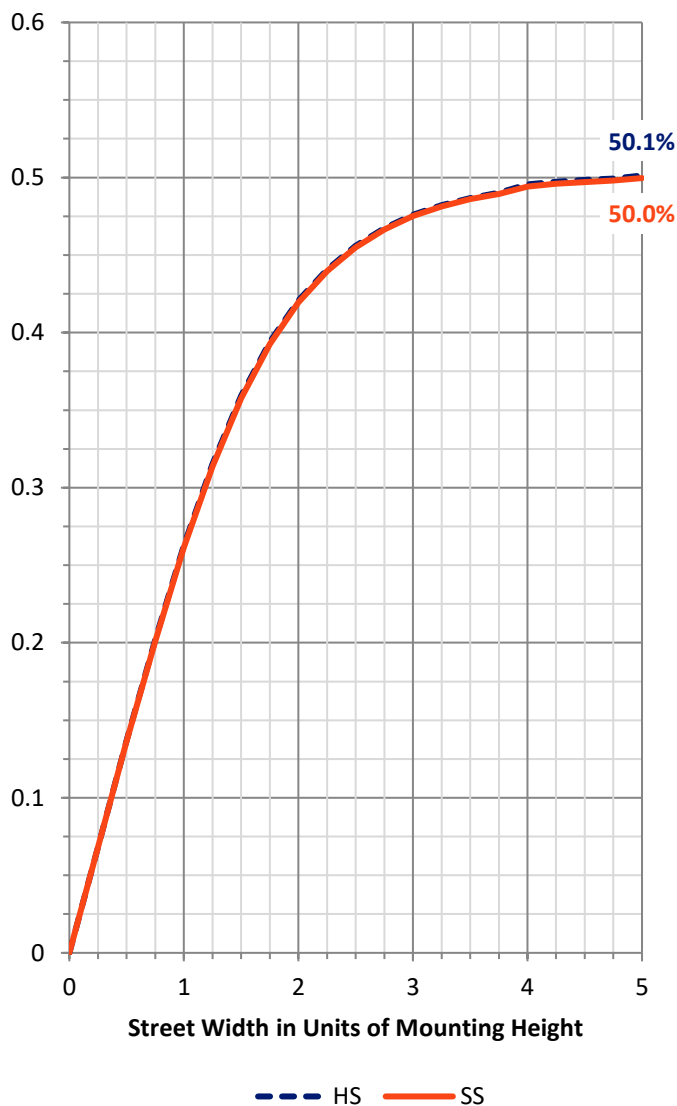
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6938.5	0.0	6938.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6938.5	0.0	6938.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13877.0	0.0	13877.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.4	0.7
10°-20°	317.8	2.3
20°-30°	660.4	4.8
30°-40°	1219.8	8.8
40°-50°	2142.9	15.4
50°-60°	3090.5	22.3
60°-70°	3782.5	27.3
70°-80°	2406.9	17.3
80°-90°	162.9	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°	13877.0	100.0
0°-180°	13877.0	100.0

Coefficient of Utilization



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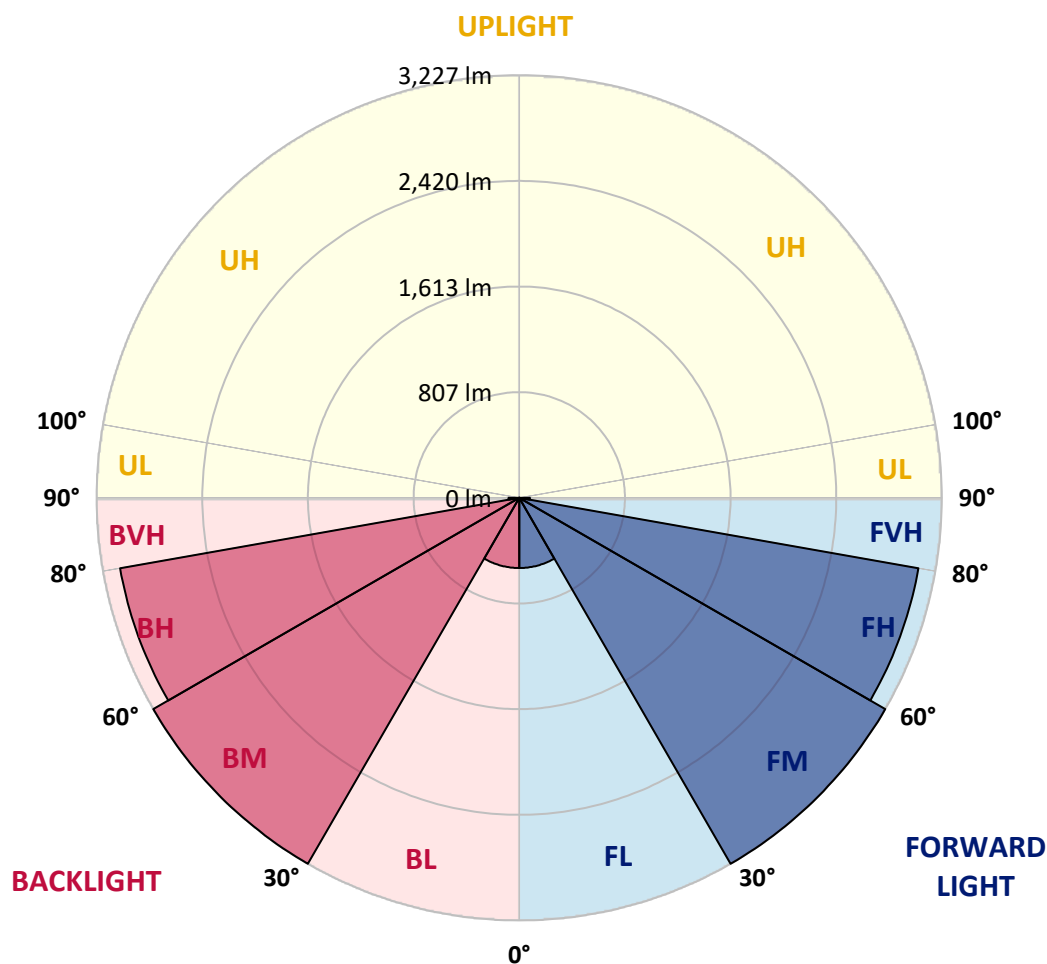
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	535.8	3.9			
FM	(30°-60°)	3226.6	23.3			
FH	(60°-80°)	3094.7	22.3			G2/5000
FVH	(80°-90°)	81.4	0.6			G1/100
BL	(0°-30°)	535.8	3.9	B2/1000		
BM	(30°-60°)	3226.6	23.3	B3/5000		
BH	(60°-80°)	3094.7	22.3	B4/5000		G2/5000
BVH	(80°-90°)	81.4	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°	967.4	967.4	967.4	967.4	967.4	967.4	967.4	967.4	967.4	967.4	967.4
2.5°	980.3	980.3	977.7	977.7	972.5	969.9	967.4	967.4	964.8	964.8	962.2
5°	985.4	985.4	985.4	982.8	980.3	977.7	972.5	967.4	964.8	962.2	959.6
7.5°	988.0	988.0	985.4	985.4	982.8	980.3	972.5	964.8	962.2	959.6	959.6
10°	1008.6	1006.1	1003.5	998.3	998.3	998.3	988.0	980.3	977.7	977.7	977.7
12.5°	1057.6	1055.1	1049.9	1042.2	1042.2	1044.7	1029.3	1019.0	1019.0	1016.4	1016.4
15°	1129.9	1127.3	1122.1	1109.2	1106.7	1111.8	1088.6	1078.3	1078.3	1078.3	1075.7
17.5°	1209.8	1204.7	1196.9	1186.6	1186.6	1186.6	1163.4	1150.5	1142.8	1142.8	1140.2
20°	1276.9	1274.3	1274.3	1271.8	1279.5	1279.5	1248.5	1227.9	1209.8	1199.5	1196.9
22.5°	1336.2	1333.7	1338.8	1349.1	1364.6	1369.8	1333.7	1302.7	1274.3	1253.7	1248.5
25°	1416.2	1413.6	1411.1	1426.5	1452.3	1460.1	1421.4	1382.7	1354.3	1344.0	1338.8
27.5°	1501.3	1503.9	1506.5	1522.0	1542.6	1555.5	1516.8	1480.7	1457.5	1442.0	1436.8
30°	1596.8	1601.9	1609.7	1632.9	1648.4	1653.5	1620.0	1594.2	1573.6	1560.7	1552.9
32.5°	1718.0	1728.3	1738.7	1759.3	1767.0	1761.9	1746.4	1728.3	1712.9	1694.8	1692.2
35°	1898.6	1908.9	1906.3	1914.1	1916.7	1911.5	1903.8	1893.4	1885.7	1862.5	1859.9
37.5°	2125.6	2135.9	2120.4	2112.7	2094.7	2097.2	2094.7	2102.4	2105.0	2081.8	2079.2
40°	2355.2	2365.5	2344.9	2324.2	2306.2	2298.4	2311.3	2337.1	2337.1	2321.7	2321.7
42.5°	2600.3	2608.0	2574.5	2548.7	2525.4	2520.3	2528.0	2559.0	2566.7	2564.1	2564.1
45°	2845.3	2840.2	2796.3	2770.5	2749.9	2737.0	2739.6	2762.8	2778.3	2786.0	2786.0
47.5°	3033.6	3025.9	2989.8	2969.1	2956.2	2938.2	2938.2	2951.1	2958.8	2961.4	2961.4
50°	3183.3	3175.5	3139.4	3136.8	3136.8	3129.1	3121.3	3118.8	3113.6	3116.2	3116.2
52.5°	3312.2	3301.9	3276.1	3281.3	3304.5	3309.7	3299.3	3278.7	3258.1	3250.3	3252.9
55°	3451.5	3436.1	3415.4	3430.9	3477.3	3498.0	3482.5	3441.2	3405.1	3381.9	3381.9
57.5°	3562.5	3544.4	3544.4	3588.3	3673.4	3714.7	3681.1	3603.7	3541.8	3516.0	3518.6
60°	3485.1	3469.6	3531.5	3725.0	3884.9	3954.6	3897.8	3761.1	3660.5	3629.5	3634.7
62.5°	3332.9	3322.6	3399.9	3699.2	4075.8	4220.3	4135.1	3939.1	3789.5	3753.3	3753.3
65°	3108.4	3105.9	3214.2	3583.1	4119.7	4475.6	4403.4	4132.6	3939.1	3890.1	3900.4
67.5°	2876.3	2876.3	2974.3	3384.5	4068.1	4584.0	4640.7	4308.0	4011.3	3890.1	3892.6
70°	2466.1	2510.0	2770.5	3201.3	3879.7	4506.6	4738.8	4184.1	3696.6	3482.5	3474.7
72.5°	1625.2	1681.9	2200.4	2881.4	3694.0	4225.4	4277.0	3676.0	3069.7	2819.5	2806.6
75°	980.3	1029.3	1426.5	2249.4	3247.7	3402.5	3175.5	2881.4	2293.3	2097.2	2097.2
77.5°	288.9	322.5	657.8	1426.5	2246.8	2236.5	1957.9	1697.4	1356.9	1153.1	1168.6
80°	170.3	175.4	214.1	650.1	931.2	980.3	755.8	472.1	472.1	350.8	340.5
82.5°	131.6	131.6	136.7	162.5	224.4	250.2	190.9	162.5	185.7	157.4	149.6
85°	92.9	92.9	92.9	95.4	98.0	100.6	105.8	108.3	118.7	98.0	92.9
87.5°	28.4	31.0	33.5	38.7	46.4	49.0	51.6	46.4	46.4	43.9	41.3
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)