

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: P842629

Luminaire Tested: **ARCH4-70-750-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842629
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: ARCH4-70-750-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 605mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13245 lumens
Efficiency: N/A
Efficacy: 179.5 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): 73.8
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

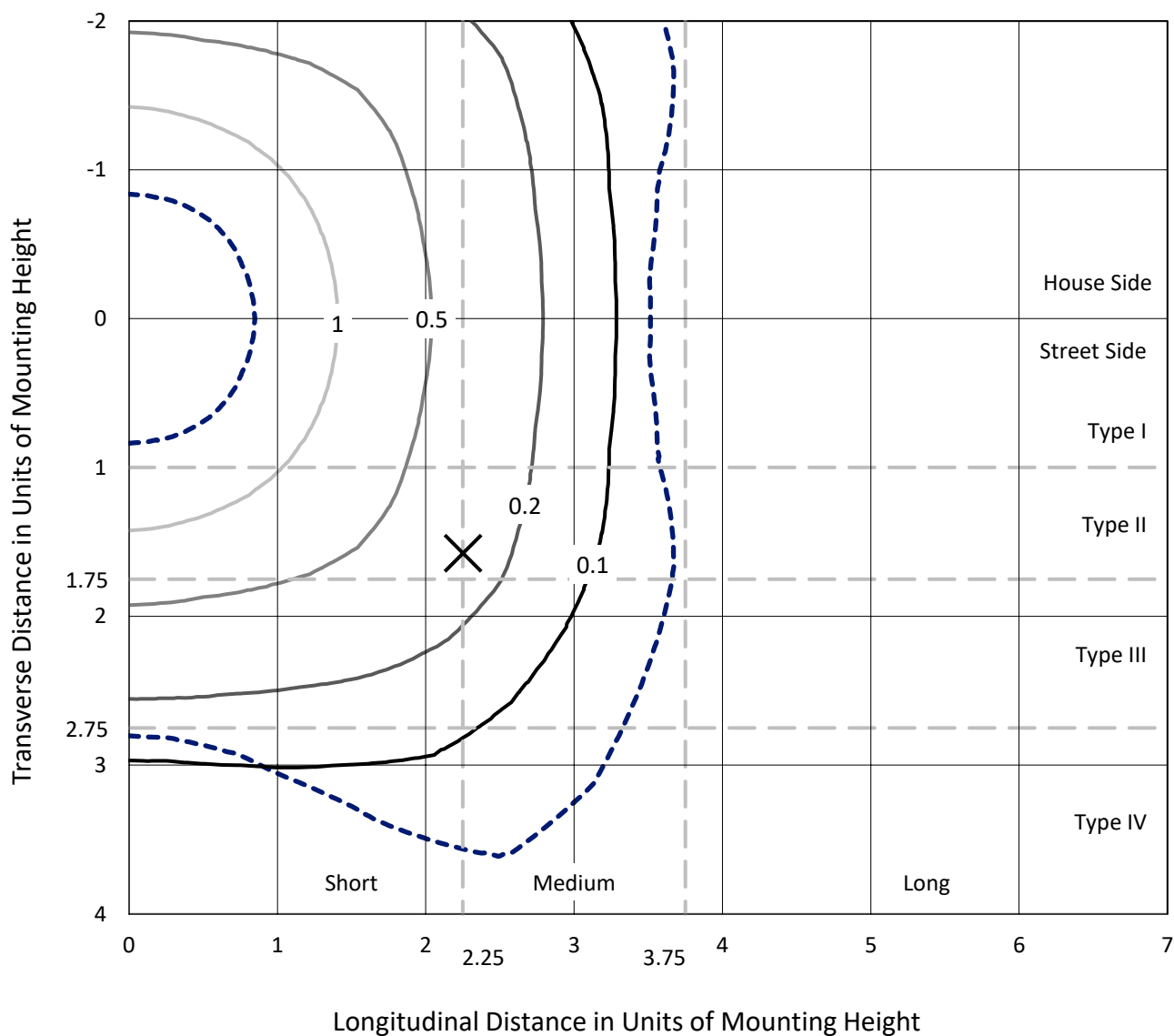


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Iso-Footcandle Lines of Horizontal Illumination

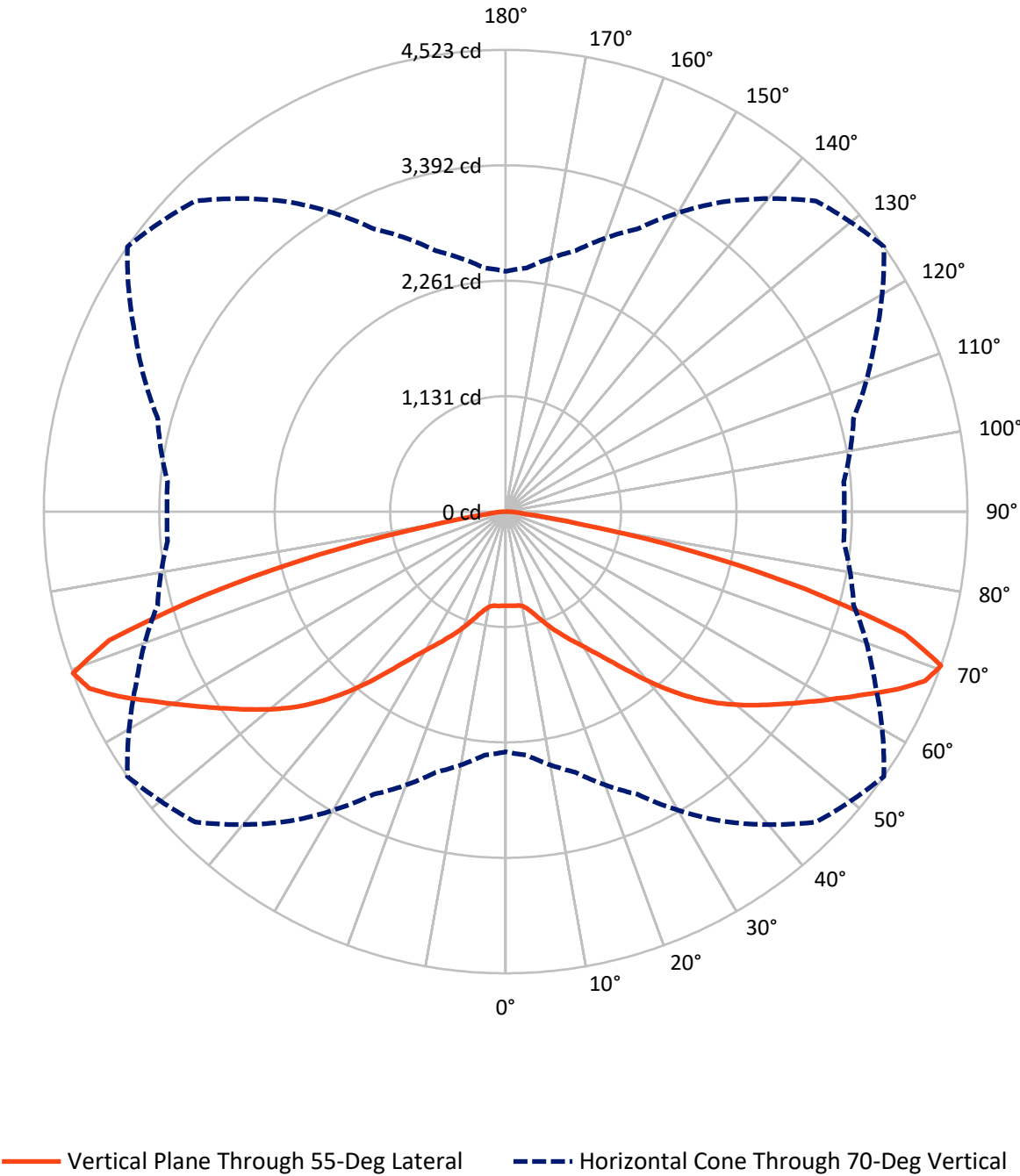
× Max cd
- - - 1/2 Max cd



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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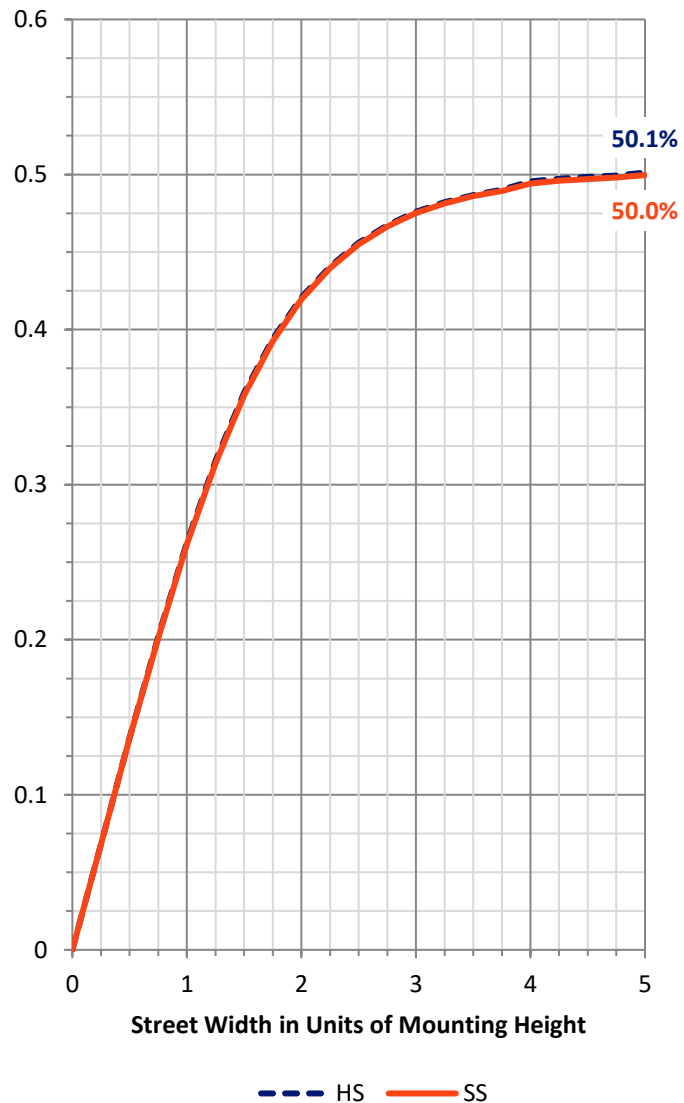
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6622.5	0.0	6622.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6622.5	0.0	6622.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13245.0	0.0	13245.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	0.7
10°-20°	303.4	2.3
20°-30°	630.4	4.8
30°-40°	1164.2	8.8
40°-50°	2045.3	15.4
50°-60°	2949.8	22.3
60°-70°	3610.2	27.3
70°-80°	2297.3	17.3
80°-90°	155.4	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°	13245.0	100.0
0°-180°	13245.0	100.0

Coefficient of Utilization



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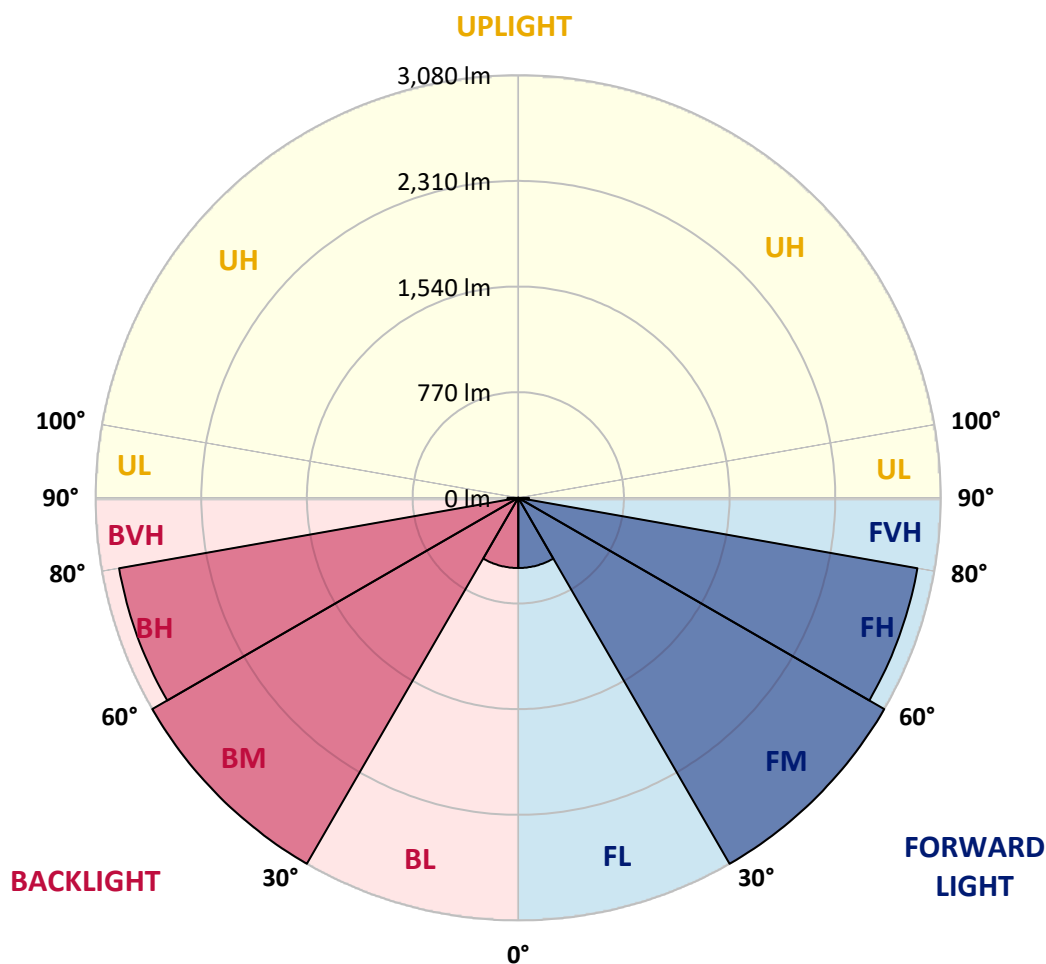
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	511.4	3.9			
FM	(30°-60°)	3079.6	23.3			
FH	(60°-80°)	2953.7	22.3			G2/5000
FVH	(80°-90°)	77.7	0.6			G1/100
BL	(0°-30°)	511.4	3.9	B2/1000		
BM	(30°-60°)	3079.6	23.3	B3/5000		
BH	(60°-80°)	2953.7	22.3	B4/5000		G2/5000
BVH	(80°-90°)	77.7	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	923.3	923.3	923.3	923.3	923.3	923.3	923.3	923.3	923.3	923.3	923.3
2.5°	935.6	935.6	933.1	933.1	928.2	925.8	923.3	923.3	920.8	920.8	918.4
5°	940.5	940.5	940.5	938.1	935.6	933.1	928.2	923.3	920.8	918.4	915.9
7.5°	943.0	943.0	940.5	940.5	938.1	935.6	928.2	920.8	918.4	915.9	915.9
10°	962.7	960.2	957.8	952.8	952.8	952.8	943.0	935.6	933.1	933.1	933.1
12.5°	1009.5	1007.0	1002.1	994.7	994.7	997.2	982.4	972.5	972.5	970.1	970.1
15°	1078.4	1076.0	1071.0	1058.7	1056.3	1061.2	1039.0	1029.2	1029.2	1029.2	1026.7
17.5°	1154.7	1149.8	1142.4	1132.6	1132.6	1132.6	1110.4	1098.1	1090.7	1090.7	1088.3
20°	1218.8	1216.3	1216.3	1213.8	1221.2	1221.2	1191.7	1172.0	1154.7	1144.9	1142.4
22.5°	1275.4	1272.9	1277.8	1287.7	1302.5	1307.4	1272.9	1243.4	1216.3	1196.6	1191.7
25°	1351.7	1349.3	1346.8	1361.6	1386.2	1393.6	1356.6	1319.7	1292.6	1282.8	1277.8
27.5°	1433.0	1435.4	1437.9	1452.7	1472.4	1484.7	1447.7	1413.3	1391.1	1376.3	1371.4
30°	1524.1	1529.0	1536.4	1558.5	1573.3	1578.2	1546.2	1521.6	1501.9	1489.6	1482.2
32.5°	1639.8	1649.6	1659.5	1679.2	1686.6	1681.6	1666.9	1649.6	1634.9	1617.6	1615.2
35°	1812.1	1822.0	1819.5	1826.9	1829.4	1824.4	1817.1	1807.2	1799.8	1777.7	1775.2
37.5°	2028.8	2038.6	2023.9	2016.5	1999.3	2001.7	1999.3	2006.6	2009.1	1986.9	1984.5
40°	2247.9	2257.8	2238.1	2218.4	2201.2	2193.8	2206.1	2230.7	2230.7	2215.9	2215.9
42.5°	2481.8	2489.2	2457.2	2432.6	2410.4	2405.5	2412.9	2442.4	2449.8	2447.4	2447.4
45°	2715.7	2710.8	2669.0	2644.3	2624.6	2612.3	2614.8	2636.9	2651.7	2659.1	2659.1
47.5°	2895.5	2888.1	2853.6	2833.9	2821.6	2804.4	2804.4	2816.7	2824.1	2826.5	2826.5
50°	3038.3	3030.9	2996.4	2994.0	2994.0	2986.6	2979.2	2976.7	2971.8	2974.3	2974.3
52.5°	3161.4	3151.5	3126.9	3131.8	3154.0	3158.9	3149.1	3129.4	3109.7	3102.3	3104.8
55°	3294.3	3279.6	3259.9	3274.6	3319.0	3338.7	3323.9	3284.5	3250.0	3227.9	3227.9
57.5°	3400.2	3383.0	3383.0	3424.8	3506.1	3545.5	3513.5	3439.6	3380.5	3355.9	3358.4
60°	3326.3	3311.6	3370.7	3555.3	3708.0	3774.5	3720.3	3589.8	3493.8	3464.2	3469.2
62.5°	3181.1	3171.2	3245.1	3530.7	3890.2	4028.1	3946.8	3759.7	3616.9	3582.4	3582.4
65°	2966.9	2964.4	3067.8	3419.9	3932.0	4271.8	4202.9	3944.3	3759.7	3712.9	3722.8
67.5°	2745.3	2745.3	2838.8	3230.3	3882.8	4375.2	4429.4	4111.8	3828.6	3712.9	3715.4
70°	2353.8	2395.7	2644.3	3055.5	3703.1	4301.4	4522.9	3993.6	3528.2	3323.9	3316.5
72.5°	1551.1	1605.3	2100.2	2750.2	3525.8	4033.0	4082.2	3508.5	2929.9	2691.1	2678.8
75°	935.6	982.4	1361.6	2147.0	3099.8	3247.6	3030.9	2750.2	2188.8	2001.7	2001.7
77.5°	275.8	307.8	627.8	1361.6	2144.5	2134.7	1868.8	1620.1	1295.1	1100.6	1115.3
80°	162.5	167.4	204.4	620.5	888.8	935.6	721.4	450.6	450.6	334.9	325.0
82.5°	125.6	125.6	130.5	155.1	214.2	238.8	182.2	155.1	177.3	150.2	142.8
85°	88.6	88.6	88.6	91.1	93.6	96.0	100.9	103.4	113.3	93.6	88.6
87.5°	27.1	29.5	32.0	36.9	44.3	46.8	49.2	44.3	44.3	41.9	39.4
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)