

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: P285876

Luminaire Tested: **USSL-XL-C049-D-U-T5-AP-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P285876  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-11)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: USSL-XL-C049-D-U-T5-AP-7050  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K LEDS AND TYPE V OPTICS, GRAY PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36097 lumens  
Efficiency: N/A  
Efficacy: 166.3 lumens/watt  
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B5 - U0 - G5

Input Watts (W): 217  
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: 28.75 FT

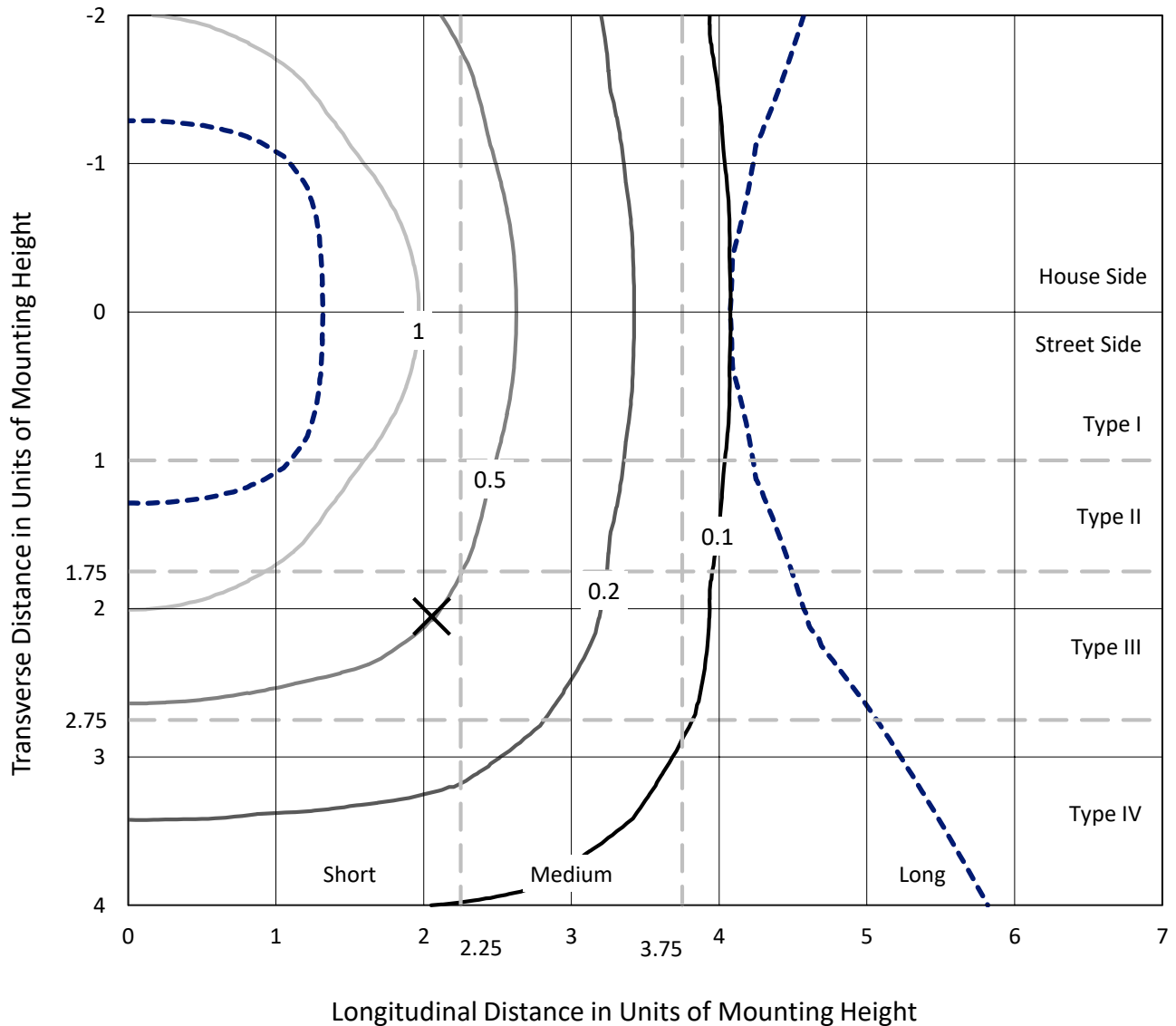


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

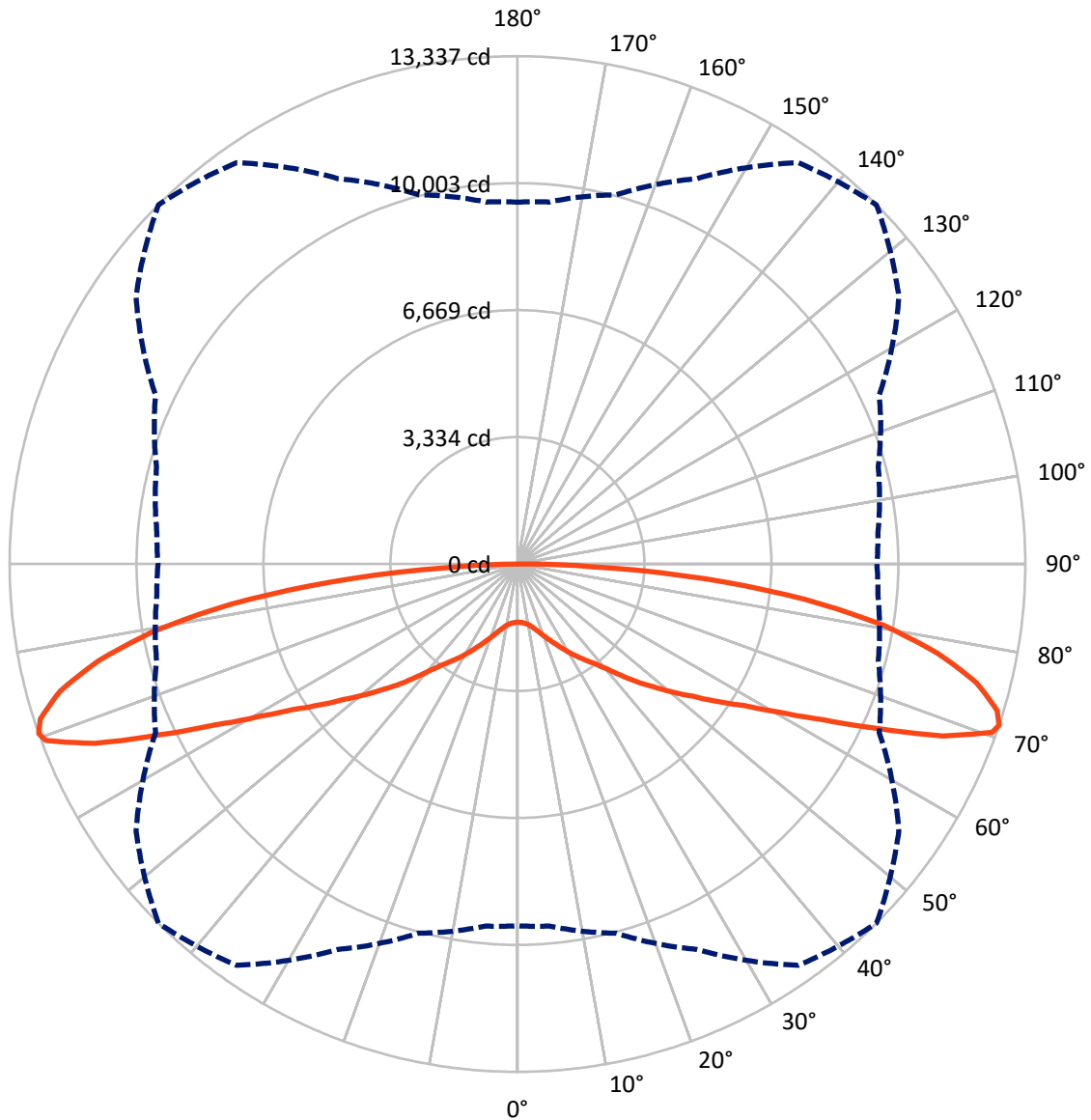


Based on 30 foot mounting height. Maximum calculated value = 2 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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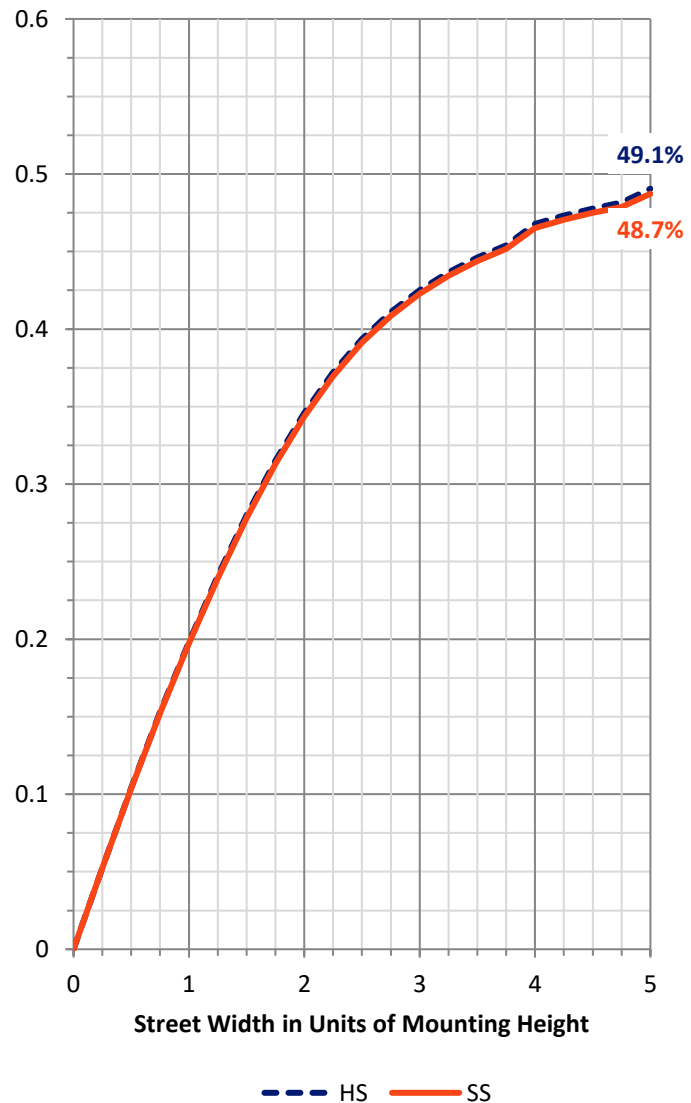
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18048.5	0.0	18048.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18048.5	0.0	18048.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	36097.0	0.0	36097.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.8	0.4
10°-20°	504.9	1.4
20°-30°	1061.9	2.9
30°-40°	1955.8	5.4
40°-50°	3590.8	9.9
50°-60°	6258.4	17.3
60°-70°	10113.4	28.0
70°-80°	9745.0	27.0
80°-90°	2716.9	7.5
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°	36097.0	100.0
0°-180°	36097.0	100.0



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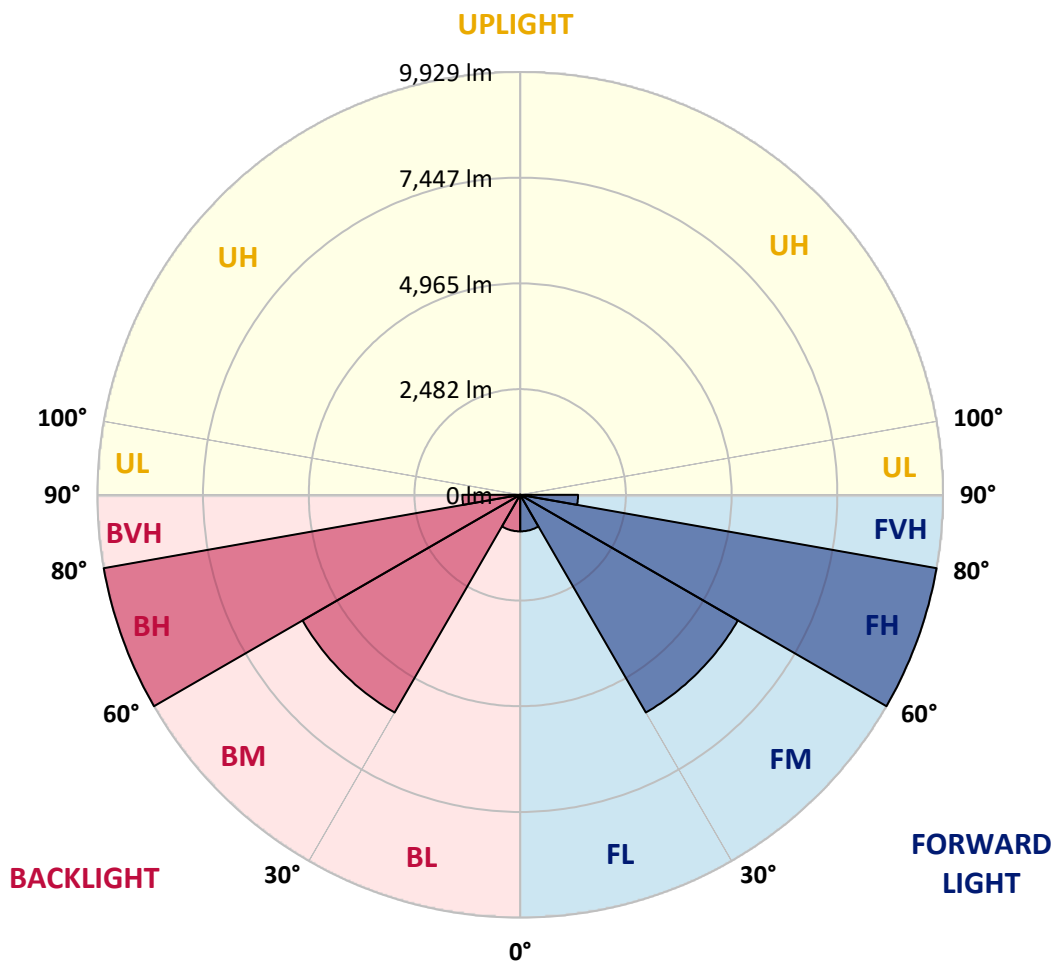
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	858.3	2.4			
FM	(30°-60°)	5902.5	16.4			
FH	(60°-80°)	9929.2	27.5			G4/12000
FVH	(80°-90°)	1358.4	3.8			G5
BL	(0°-30°)	858.3	2.4	B2/1000		
BM	(30°-60°)	5902.5	16.4	B4/8500		
BH	(60°-80°)	9929.2	27.5	B5		G4/12000
BVH	(80°-90°)	1358.4	3.8			G5
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1
2.5°	1533.6	1541.2	1537.4	1534.8	1536.1	1534.8	1532.2	1529.6	1527.1	1525.8	1525.8
5°	1545.0	1550.2	1548.9	1547.7	1548.9	1551.5	1550.2	1548.9	1545.0	1542.5	1542.5
7.5°	1573.3	1574.6	1575.9	1574.6	1574.6	1578.4	1575.9	1574.6	1566.9	1565.6	1563.0
10°	1616.9	1615.6	1619.5	1620.8	1620.8	1623.3	1615.6	1610.5	1596.4	1595.1	1592.5
12.5°	1668.3	1668.3	1673.4	1679.8	1684.9	1690.1	1675.9	1664.4	1645.2	1637.4	1638.7
15°	1738.9	1737.6	1744.0	1758.1	1772.3	1782.4	1762.0	1742.7	1717.0	1706.8	1709.3
17.5°	1831.2	1829.9	1840.2	1856.9	1880.1	1895.4	1867.1	1838.9	1815.8	1803.0	1803.0
20°	1944.2	1945.4	1953.2	1974.9	2004.5	2023.8	1987.8	1950.5	1933.9	1922.3	1919.8
22.5°	2076.3	2086.6	2082.8	2108.5	2148.2	2170.0	2127.6	2086.6	2071.3	2063.5	2061.0
25°	2232.9	2243.2	2232.9	2258.5	2308.6	2330.4	2286.8	2241.9	2234.2	2229.1	2226.5
27.5°	2407.5	2408.7	2406.2	2420.3	2488.3	2510.1	2452.3	2412.5	2416.4	2413.8	2410.0
30°	2597.4	2596.1	2593.5	2589.7	2675.6	2702.5	2638.4	2606.3	2619.1	2611.5	2611.5
32.5°	2809.1	2805.2	2791.1	2800.1	2851.4	2904.0	2828.3	2809.1	2846.4	2841.2	2846.4
35°	3041.4	3040.1	3013.1	3022.1	3058.0	3105.5	3047.7	3038.8	3095.2	3108.1	3115.8
37.5°	3305.7	3307.0	3269.8	3264.7	3294.2	3328.8	3307.0	3330.1	3413.5	3457.2	3445.6
40°	3648.4	3643.2	3593.2	3552.1	3582.9	3627.8	3650.9	3715.1	3843.4	3908.9	3915.3
42.5°	4111.7	4098.7	4041.1	3961.5	3976.9	4006.4	4075.7	4187.3	4341.4	4402.9	4384.9
45°	4660.9	4637.8	4553.1	4462.0	4413.2	4423.5	4488.9	4627.5	4812.3	4894.4	4908.5
47.5°	5282.0	5255.0	5128.0	4956.0	4837.9	4825.1	4890.6	5076.6	5301.2	5401.4	5396.2
50°	5981.3	5947.9	5813.2	5548.9	5329.5	5292.2	5337.1	5568.2	5831.3	5966.0	5958.2
52.5°	6744.9	6697.4	6549.9	6208.5	5917.2	5772.2	5837.6	6114.8	6383.0	6556.2	6562.7
55°	7522.5	7512.3	7322.4	6978.5	6580.6	6366.3	6411.2	6709.0	7040.1	7215.9	7208.2
57.5°	8306.6	8279.7	8129.5	7769.0	7371.2	7013.1	7061.9	7387.8	7726.6	7911.4	7904.9
60°	9072.7	9035.5	8918.7	8649.3	8314.4	7899.9	7869.0	8180.9	8478.6	8650.6	8635.2
62.5°	9868.4	9867.1	9772.2	9561.7	9383.3	8995.8	8845.6	9062.5	9325.5	9487.3	9478.3
65°	10581.9	10587.0	10599.8	10606.3	10624.2	10418.9	10081.5	10051.9	10247.0	10343.2	10316.2
67.5°	10594.8	10642.2	10866.8	11330.0	11970.4	12052.5	11393.0	10789.8	10566.5	10451.0	10436.9
70°	9891.5	9949.3	10377.9	11321.1	12777.6	13231.9	12130.9	10679.4	10122.5	9828.7	9772.2
71°	9501.4	9543.8	10037.8	11168.4	12864.9	13337.1	12227.1	10485.7	9811.9	9503.9	9439.8
72.5°	8809.7	8848.2	9477.0	10761.6	12743.0	13176.7	12132.1	10113.5	9263.9	8886.7	8813.6
75°	7459.7	7561.1	8174.5	9767.0	12017.9	12456.8	11485.3	9126.7	8065.4	7511.0	7457.1
77.5°	5556.6	5732.4	6476.7	8241.3	10706.4	11289.0	10288.0	7680.5	6449.7	5840.2	5773.5
80°	3137.6	3316.0	4334.9	6248.3	8971.4	9736.2	8544.1	5828.6	4583.9	3810.0	3725.3
82.5°	1161.3	1124.1	2082.8	3934.6	6682.0	7613.7	6253.4	3799.7	2522.9	1749.2	1695.2
85°	256.7	385.0	918.8	1982.6	4216.8	4944.4	3689.4	1916.0	977.9	504.3	470.9
87.5°	70.6	125.8	315.6	831.6	1699.0	1926.2	1391.1	519.8	156.5	61.6	61.6
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)