

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: McGRAW-EDISON

Report Number: P533708

Luminaire Tested: **GALN-SA9A-830-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533708
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-830-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29078 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 274
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

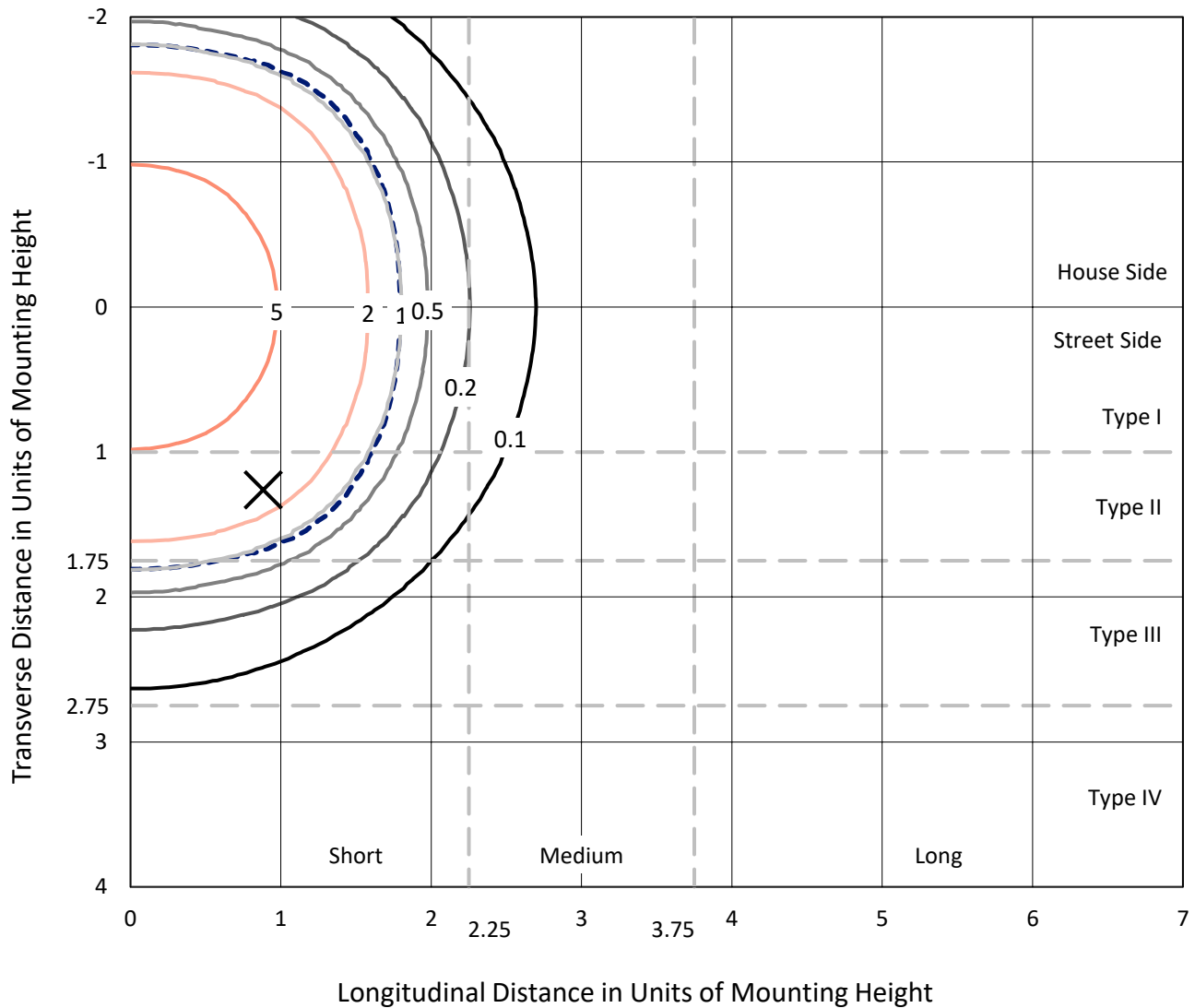


REPORT NUMBER: P533708

CATALOG NUMBER: GALN-SA9A-830-U-5MQ-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

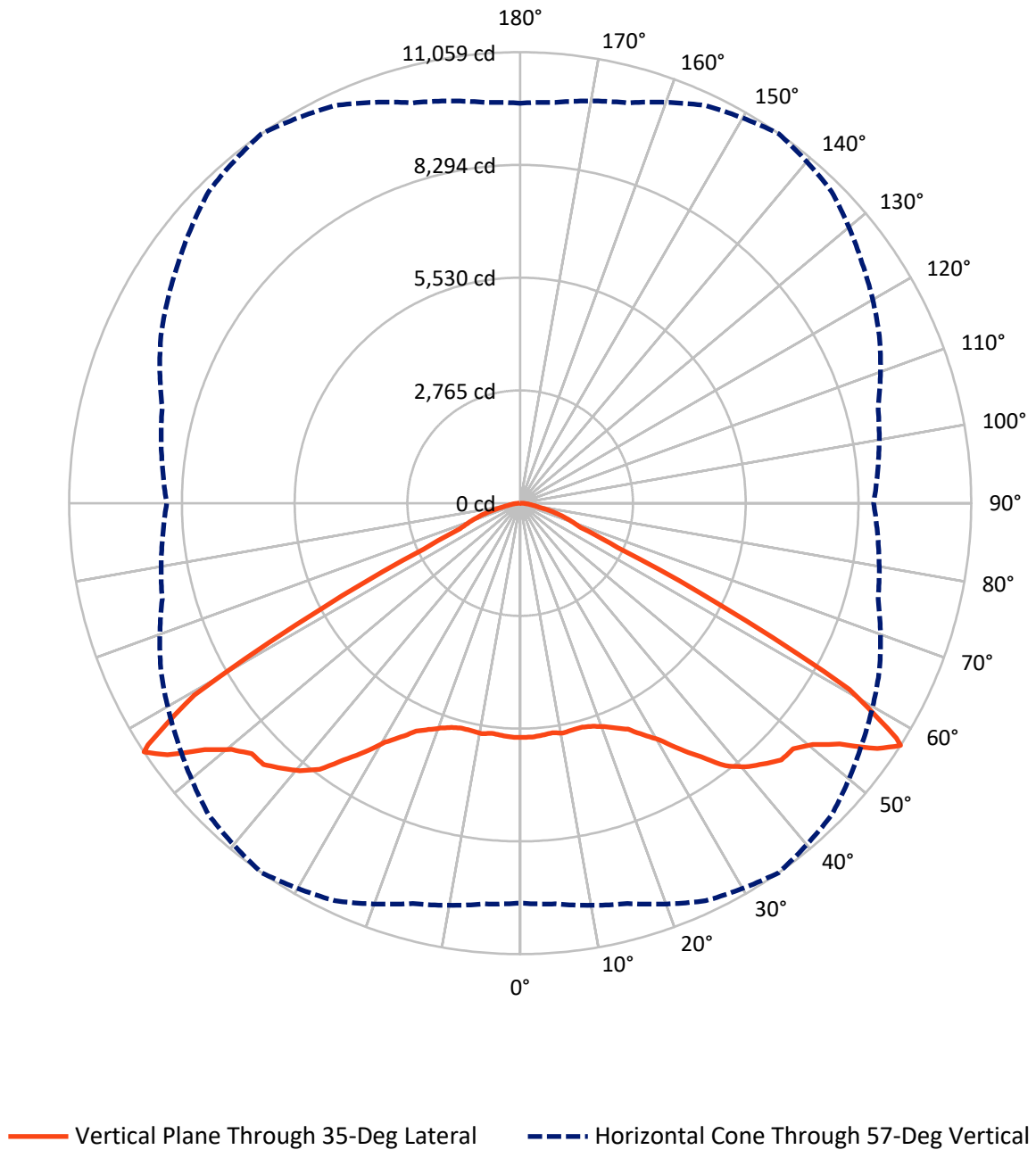


Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
Type V - Short - N/A

REPORT NUMBER: P533708

CATALOG NUMBER: GALN-SA9A-830-U-5MQ-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P533708

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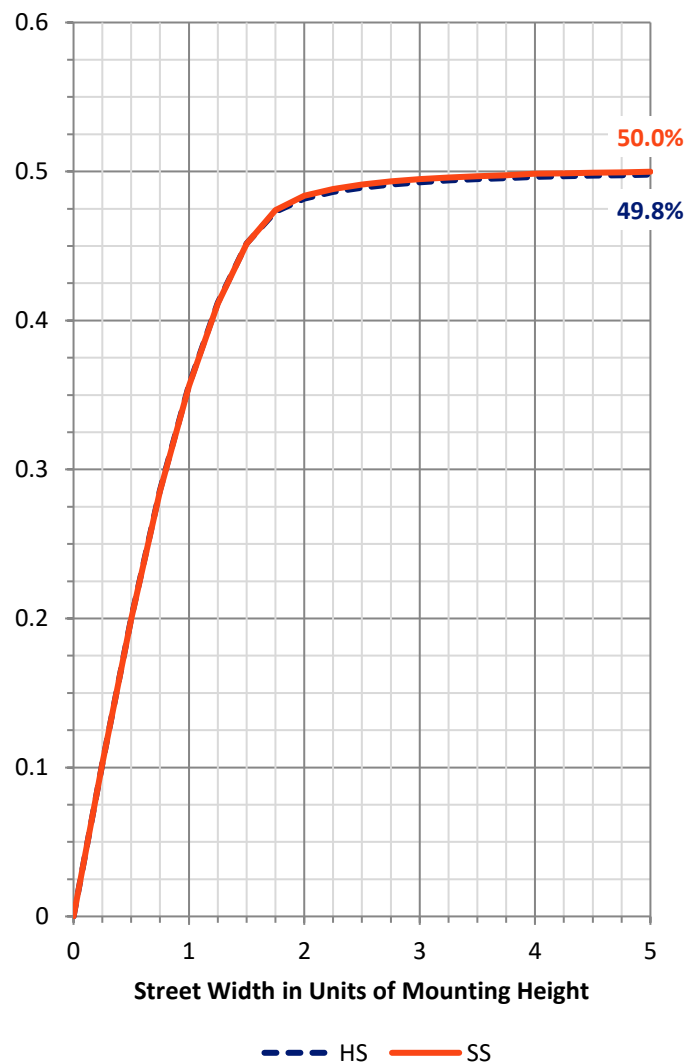
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14539.0	0.0	14539.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14539.0	0.0	14539.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	29078.0	0.0	29078.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.4	1.9
10°-20°	1612.4	5.5
20°-30°	2816.1	9.7
30°-40°	4614.3	15.9
40°-50°	6765.6	23.3
50°-60°	8521.8	29.3
60°-70°	3205.0	11.0
70°-80°	852.2	2.9
80°-90°	146.1	0.5
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°	29078.0	100.0
0°-180°	29078.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533708

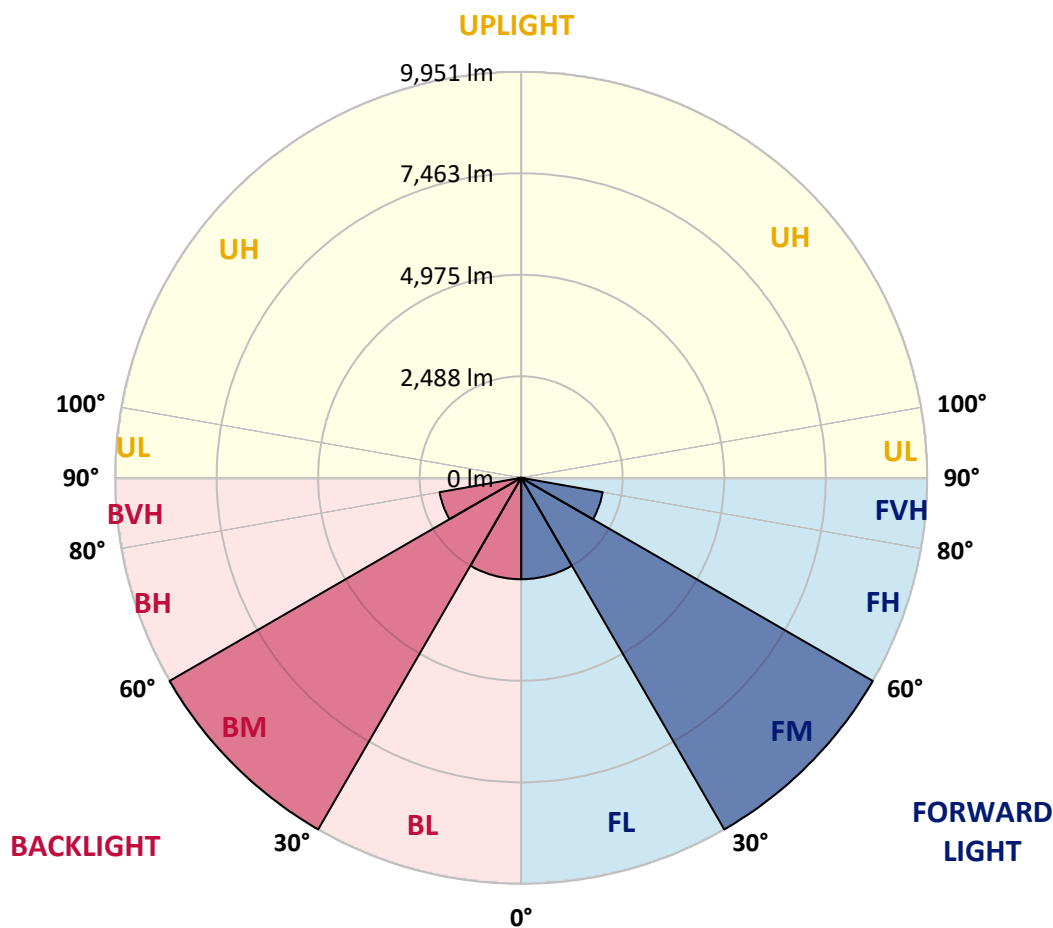
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2486.5	8.6			
FM	(30°-60°)	9950.9	34.2			
FH	(60°-80°)	2028.6	7.0			G2/5000
FVH	(80°-90°)	73.1	0.3			G1/100
BL	(0°-30°)	2486.5	8.6	B3/2500		
BM	(30°-60°)	9950.9	34.2	B5		
BH	(60°-80°)	2028.6	7.0	B3/2500		G2/5000
BVH	(80°-90°)	73.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short



REPORT NUMBER: P533708

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5742.7	5742.7	5742.7	5742.7	5742.7	5742.7	5742.7	5742.7	5742.7	5742.7	5742.7
2.5°	5714.0	5771.4	5746.3	5731.9	5742.7	5724.8	5696.1	5728.4	5721.2	5692.5	5681.8
5°	5699.7	5742.7	5714.0	5742.7	5714.0	5764.2	5749.9	5696.1	5760.6	5699.7	5721.2
7.5°	5689.0	5703.3	5710.4	5696.1	5685.4	5746.3	5714.0	5689.0	5653.1	5642.4	5660.3
10°	5663.9	5699.7	5646.0	5717.6	5731.9	5689.0	5689.0	5642.4	5613.7	5595.8	5656.7
12.5°	5728.4	5667.5	5660.3	5696.1	5706.9	5724.8	5674.6	5649.5	5595.8	5603.0	5592.2
15°	5653.1	5678.2	5681.8	5689.0	5699.7	5742.7	5696.1	5642.4	5620.9	5545.7	5552.8
17.5°	5681.8	5656.7	5681.8	5764.2	5749.9	5782.1	5731.9	5649.5	5599.4	5556.4	5613.7
20°	5731.9	5721.2	5731.9	5832.3	5850.2	5878.8	5835.8	5760.6	5663.9	5613.7	5642.4
22.5°	5785.7	5778.5	5785.7	5882.4	5986.3	6022.1	5979.1	5803.6	5753.4	5660.3	5628.1
25°	5882.4	5889.6	5964.8	6072.3	6140.3	6208.4	6129.6	6004.2	5843.0	5785.7	5717.6
27.5°	6097.4	6115.3	6158.3	6315.9	6434.1	6495.0	6384.0	6212.0	6111.7	5993.5	5975.6
30°	6362.5	6362.5	6437.7	6573.8	6735.0	6828.2	6692.0	6487.8	6366.0	6301.6	6262.1
32.5°	6713.5	6674.1	6702.8	6942.8	7193.6	7272.4	7089.7	6838.9	6645.5	6559.5	6530.8
35°	7014.5	7039.5	7104.0	7362.0	7641.4	7824.1	7537.5	7211.5	7014.5	6935.7	6921.3
37.5°	7405.0	7447.9	7480.2	7834.9	8171.6	8239.7	7963.8	7702.3	7462.3	7397.8	7362.0
40°	7956.7	7928.0	7938.7	8200.3	8504.8	8547.8	8275.5	8089.2	7892.2	7852.8	7852.8
42.5°	8411.6	8379.4	8415.2	8511.9	8744.8	8712.6	8562.1	8426.0	8343.6	8300.6	8343.6
45°	8687.5	8680.3	8744.8	8816.4	8981.2	8873.8	8755.5	8777.0	8698.2	8626.6	8623.0
47.5°	8988.4	8941.8	9020.6	9128.1	9002.7	8952.6	8945.4	8992.0	8966.9	8841.5	8802.1
50°	9135.3	9117.4	9242.8	9368.1	9300.1	9185.4	9210.5	9285.7	8963.3	8795.0	8698.2
52.5°	9529.4	9532.9	9773.0	9841.0	9812.4	9644.0	9697.7	9493.5	9113.8	8877.3	8888.1
55°	10149.1	10124.0	10392.7	10593.3	10625.6	10410.6	10152.7	9866.1	9389.6	9149.6	9078.0
57°	9808.8	9866.1	10163.5	10758.1	11059.1	10804.7	10242.3	9719.2	9085.1	8795.0	8666.0
57.5°	9353.8	9447.0	9962.8	10561.1	10876.4	10854.9	10131.2	9447.0	8880.9	8429.5	8440.3
60°	6853.3	6871.2	7336.9	8286.2	9271.4	9292.9	8411.6	7505.3	6874.7	6384.0	6452.0
62.5°	3614.7	3697.1	3883.4	4646.5	5499.1	5706.9	5173.1	4707.4	4162.8	3790.2	3826.1
65°	1913.0	1902.3	1991.9	2206.8	2625.9	2733.4	2661.8	2292.8	2102.9	2042.0	2045.6
67.5°	1554.8	1572.7	1562.0	1572.7	1601.4	1647.9	1637.2	1651.5	1662.3	1680.2	1676.6
70°	1318.3	1318.3	1325.5	1329.1	1329.1	1350.6	1375.7	1422.2	1425.8	1443.7	1450.9
72.5°	1038.9	1031.7	1042.5	1067.6	1071.2	1089.1	1124.9	1153.6	1164.3	1164.3	1142.8
75°	705.7	712.9	727.2	748.7	770.2	802.5	831.1	849.0	856.2	845.5	834.7
77.5°	397.7	404.8	415.6	447.8	472.9	501.5	533.8	551.7	569.6	573.2	551.7
80°	236.4	236.4	254.4	279.4	308.1	336.8	365.4	386.9	394.1	394.1	383.3
82.5°	143.3	146.9	161.2	186.3	211.4	229.3	254.4	272.3	286.6	283.0	275.8
85°	75.2	75.2	89.6	111.1	129.0	146.9	146.9	136.1	129.0	111.1	103.9
87.5°	25.1	21.5	28.7	28.7	25.1	28.7	28.7	32.2	32.2	32.2	32.2
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)