

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: P650994

Luminaire Tested: **GALN-SA7C-840-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650994  
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-SA7C-840-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 1050mA 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: 36349.7 lumens  
Efficiency: N/A  
Efficacy: 96.4 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

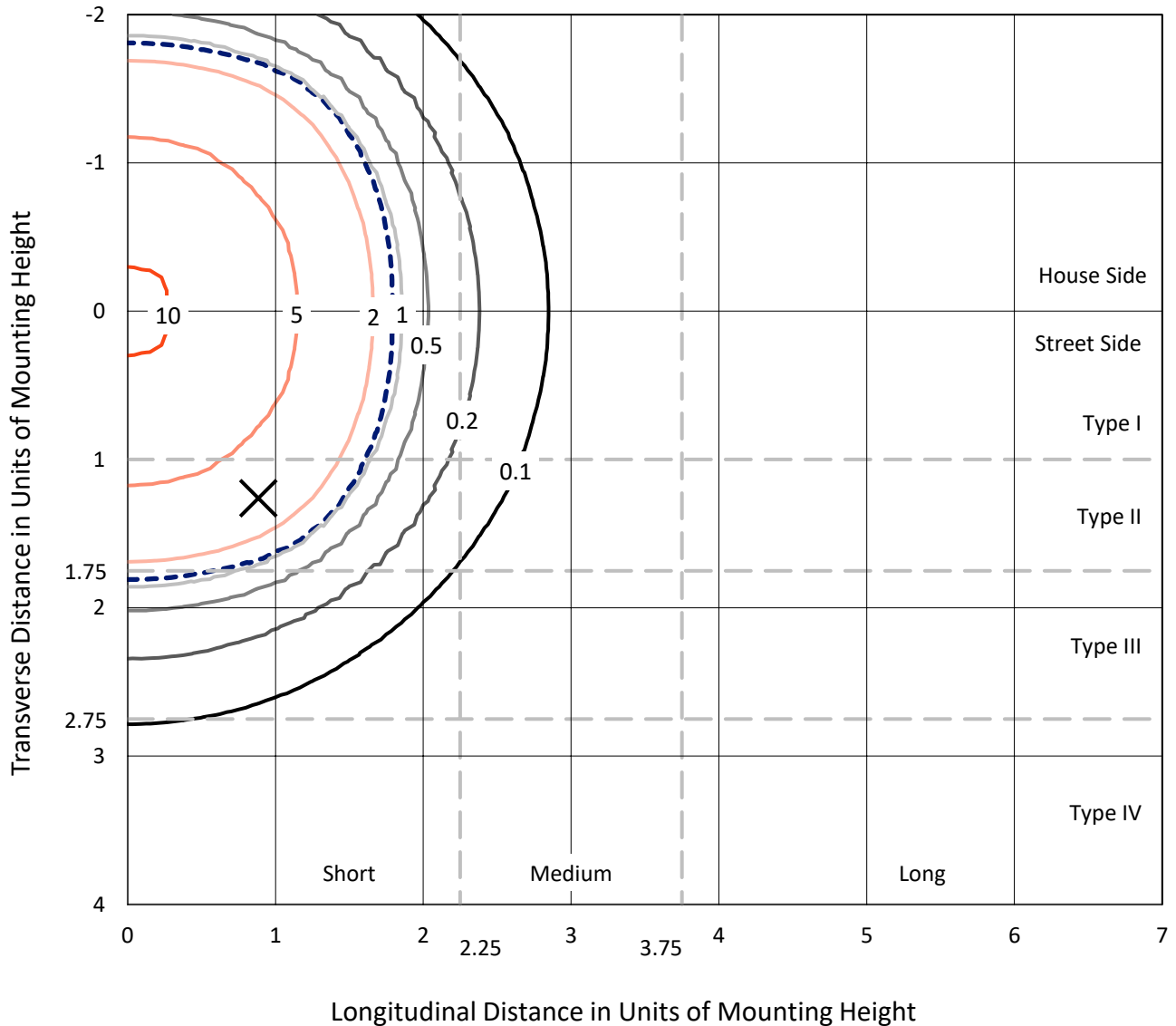
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P650994  
 CATALOG NUMBER: GALN-SA7C-840-U-5MQ-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

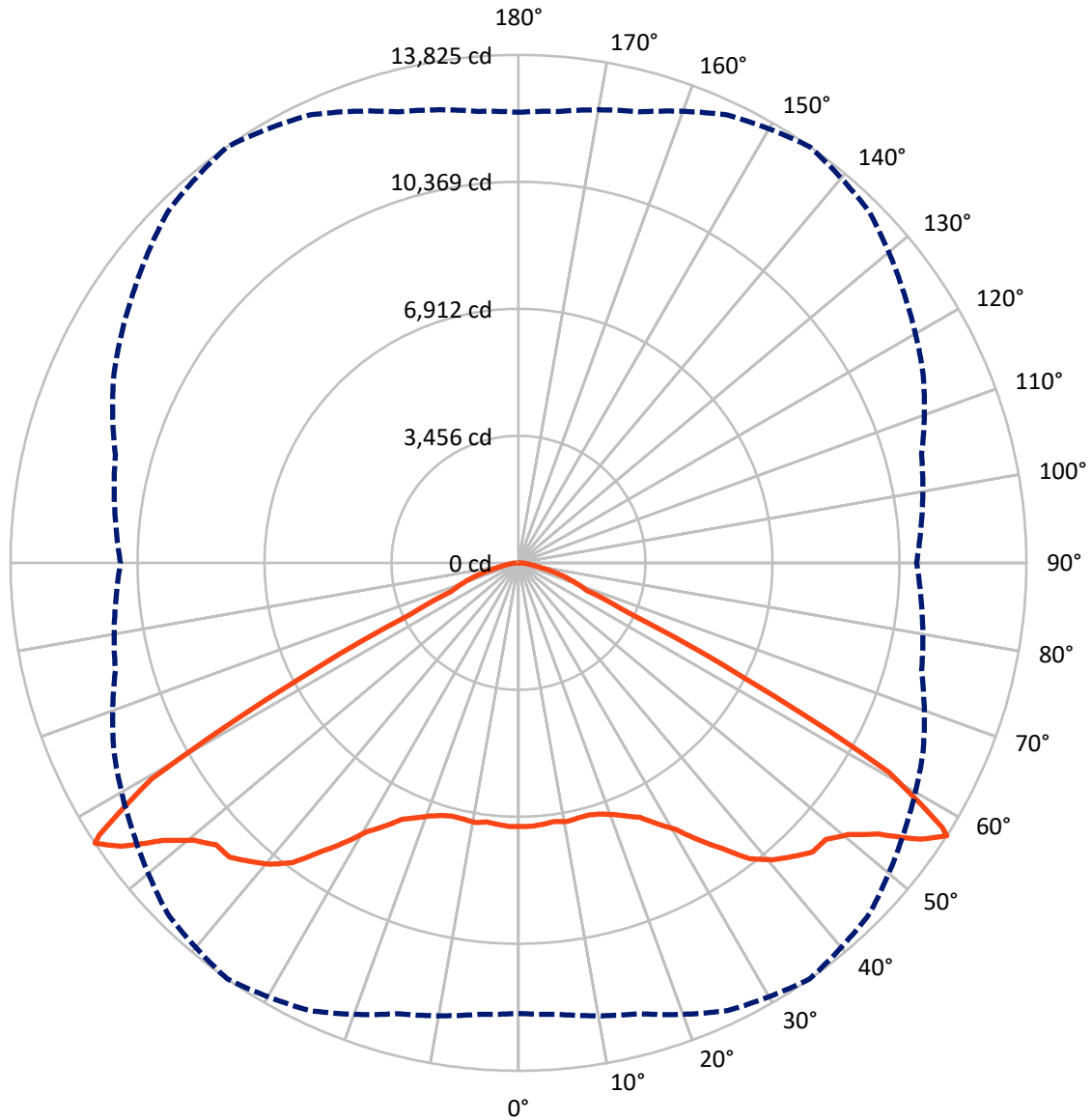
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc  
 Type V - Short - N/A

REPORT NUMBER: P650994  
CATALOG NUMBER: GALN-SA7C-840-U-5MQ-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P650994  
 CATALOG NUMBER: GALN-SA7C-840-U-5MQ-GRSWH

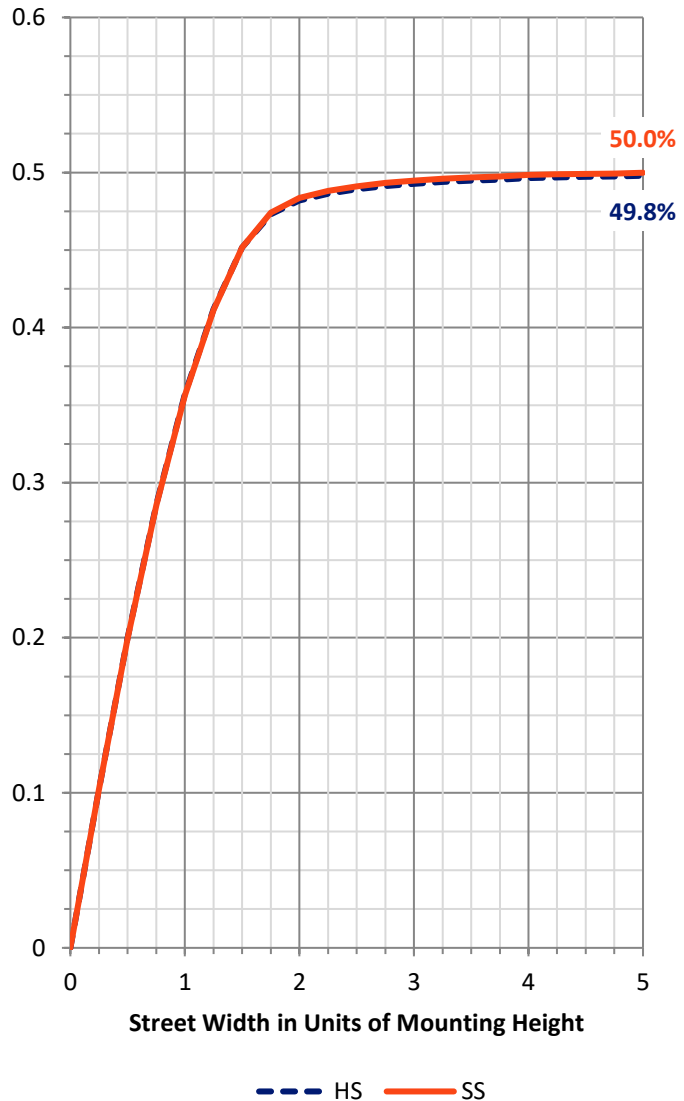
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18174.9	0.0	18174.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18174.9	0.0	18174.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	36349.7	0.0	36349.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	680.6	1.9
10°-20°	2015.7	5.5
20°-30°	3520.4	9.7
30°-40°	5768.2	15.9
40°-50°	8457.6	23.3
50°-60°	10652.9	29.3
60°-70°	4006.5	11.0
70°-80°	1065.3	2.9
80°-90°	182.7	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°	36349.7	100.0
0°-180°	36349.7	100.0

**Coefficient of Utilization**

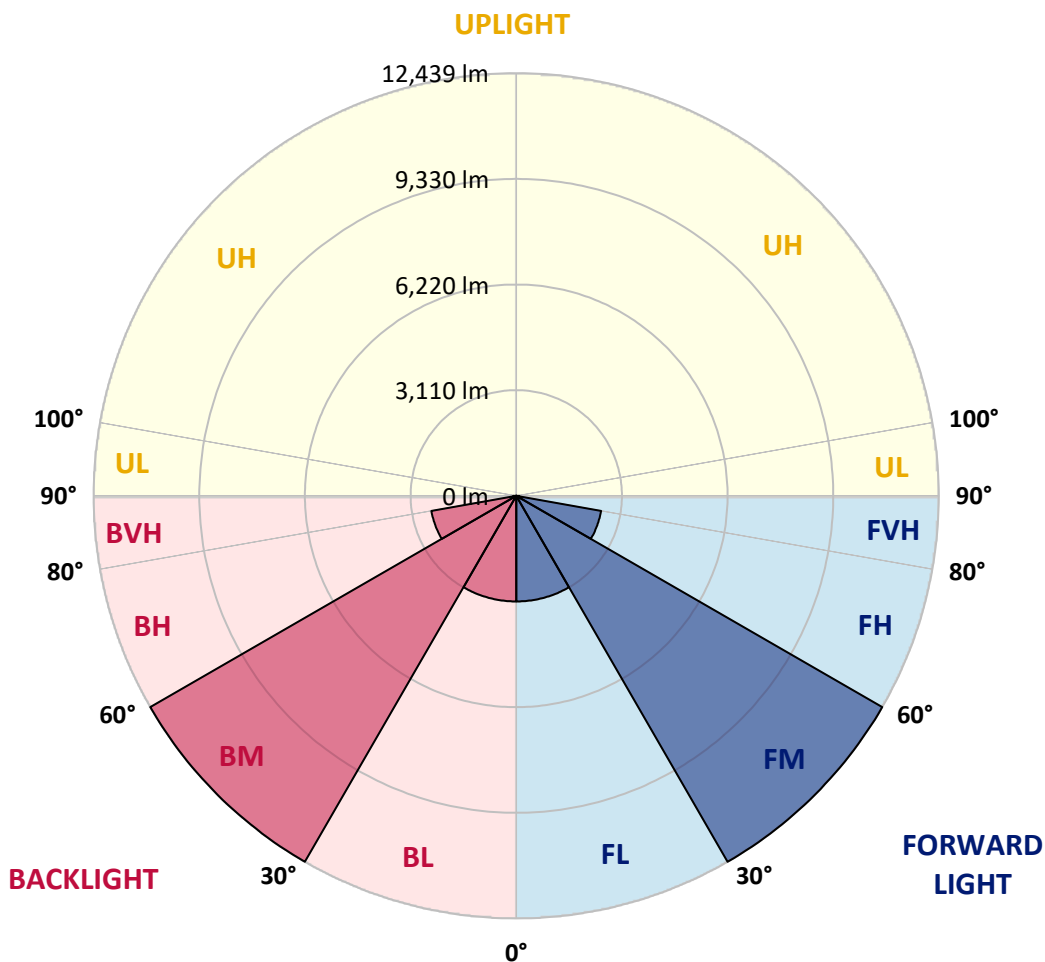


REPORT NUMBER: P650994  
 CATALOG NUMBER: GALN-SA7C-840-U-5MQ-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3108.3	8.6			
FM (30°-60°)	12439.3	34.2			
FH (60°-80°)	2535.9	7.0			G2/5000
FVH (80°-90°)	91.3	0.3			G1/100
BL (0°-30°)	3108.3	8.6	B4/5000		
BM (30°-60°)	12439.3	34.2	B5		
BH (60°-80°)	2535.9	7.0	B4/5000		G2/5000
BVH (80°-90°)	91.3	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: P650994

CATALOG NUMBER: GALN-SA7C-840-U-5MQ-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7178.8	7178.8	7178.8	7178.8	7178.8	7178.8	7178.8	7178.8	7178.8	7178.8	7178.8
2.5°	7142.9	7214.6	7183.3	7165.4	7178.8	7156.4	7120.6	7160.9	7151.9	7116.1	7102.7
5°	7125.0	7178.8	7142.9	7178.8	7142.9	7205.7	7187.8	7120.6	7201.2	7125.0	7151.9
7.5°	7111.7	7129.6	7138.5	7120.6	7107.1	7183.3	7142.9	7111.7	7066.8	7053.4	7075.8
10°	7080.3	7125.0	7057.9	7147.5	7165.4	7111.7	7111.7	7053.4	7017.6	6995.2	7071.3
12.5°	7160.9	7084.8	7075.8	7120.6	7134.0	7156.4	7093.8	7062.4	6995.2	7004.2	6990.7
15°	7066.8	7098.2	7102.7	7111.7	7125.0	7178.8	7120.6	7053.4	7026.6	6932.4	6941.4
17.5°	7102.7	7071.3	7102.7	7205.7	7187.8	7228.1	7165.4	7062.4	6999.6	6945.9	7017.6
20°	7165.4	7151.9	7165.4	7290.8	7313.2	7349.0	7295.3	7201.2	7080.3	7017.6	7053.4
22.5°	7232.5	7223.6	7232.5	7353.5	7483.3	7528.1	7474.4	7255.0	7192.2	7075.8	7035.5
25°	7353.5	7362.5	7456.5	7590.8	7675.9	7761.0	7662.4	7505.8	7304.2	7232.5	7147.5
27.5°	7622.2	7644.5	7698.3	7895.3	8043.2	8119.3	7980.4	7765.5	7640.1	7492.3	7469.9
30°	7953.6	7953.6	8047.6	8217.7	8419.3	8535.7	8365.6	8110.3	7958.0	7877.4	7828.2
32.5°	8392.4	8343.1	8379.0	8679.0	8992.6	9091.0	8862.6	8549.2	8307.3	8199.8	8164.0
35°	8768.6	8800.0	8880.5	9203.0	9552.3	9780.7	9422.5	9014.9	8768.6	8670.1	8652.2
37.5°	9256.7	9310.5	9350.8	9794.1	10215.1	10300.2	9955.3	9628.4	9328.4	9247.8	9203.0
40°	9946.4	9910.6	9924.1	10250.9	10631.6	10685.3	10345.0	10112.1	9865.8	9816.6	9816.6
42.5°	10515.2	10474.9	10519.6	10640.6	10931.7	10891.4	10703.2	10533.1	10430.1	10376.3	10430.1
45°	10860.0	10851.1	10931.7	11021.2	11227.3	11092.9	10945.1	10971.9	10873.5	10783.9	10779.4
47.5°	11236.2	11178.0	11276.5	11410.9	11254.1	11191.4	11182.4	11240.6	11209.4	11052.6	11003.3
50°	11419.8	11397.4	11554.2	11710.9	11625.8	11482.5	11513.9	11607.9	11204.8	10994.4	10873.5
52.5°	11912.4	11916.9	12217.0	12302.1	12266.2	12055.7	12122.9	11867.6	11392.9	11097.3	11110.8
55°	12687.2	12655.8	12991.7	13242.5	13282.8	13014.1	12691.6	12333.3	11737.8	11437.7	11348.1
57°	12261.7	12333.3	12705.1	13448.5	13824.7	13506.7	12803.6	12149.8	11357.1	10994.4	10833.2
57.5°	11693.0	11809.4	12454.3	13202.2	13596.3	13569.4	12664.8	11809.4	11101.9	10537.6	10551.0
60°	8567.1	8589.5	9171.7	10358.4	11590.0	11616.8	10515.2	9382.1	8593.9	7980.4	8065.5
62.5°	4518.7	4621.6	4854.5	5808.5	6874.2	7134.0	6466.7	5884.6	5203.9	4738.1	4782.9
65°	2391.5	2378.0	2489.9	2758.6	3282.6	3417.0	3327.4	2866.1	2628.8	2552.7	2557.1
67.5°	1943.6	1966.0	1952.5	1966.0	2001.8	2060.0	2046.6	2064.5	2077.9	2100.3	2095.9
70°	1648.0	1648.0	1657.0	1661.5	1661.5	1688.3	1719.7	1777.9	1782.4	1804.8	1813.7
72.5°	1298.8	1289.8	1303.2	1334.6	1339.0	1361.4	1406.2	1442.1	1455.4	1455.4	1428.6
75°	882.2	891.2	909.1	935.9	962.9	1003.1	1039.0	1061.3	1070.3	1056.9	1043.4
77.5°	497.1	506.0	519.5	559.8	591.1	627.0	667.2	689.7	712.1	716.5	689.7
80°	295.6	295.6	318.0	349.4	385.2	421.0	456.8	483.7	492.7	492.7	479.2
82.5°	179.1	183.6	201.5	232.9	264.2	286.6	318.0	340.4	358.3	353.8	344.8
85°	94.0	94.0	111.9	138.8	161.2	183.6	183.6	170.2	161.2	138.8	129.9
87.5°	31.4	26.9	35.8	35.8	31.4	35.8	35.8	40.3	40.3	40.3	40.3
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)