

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: P651489

Luminaire Tested: **GALN-SA7D-840-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651489  
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-SA7D-840-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 1200mA 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: 39997.1 lumens  
Efficiency: N/A  
Efficacy: 92.4 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

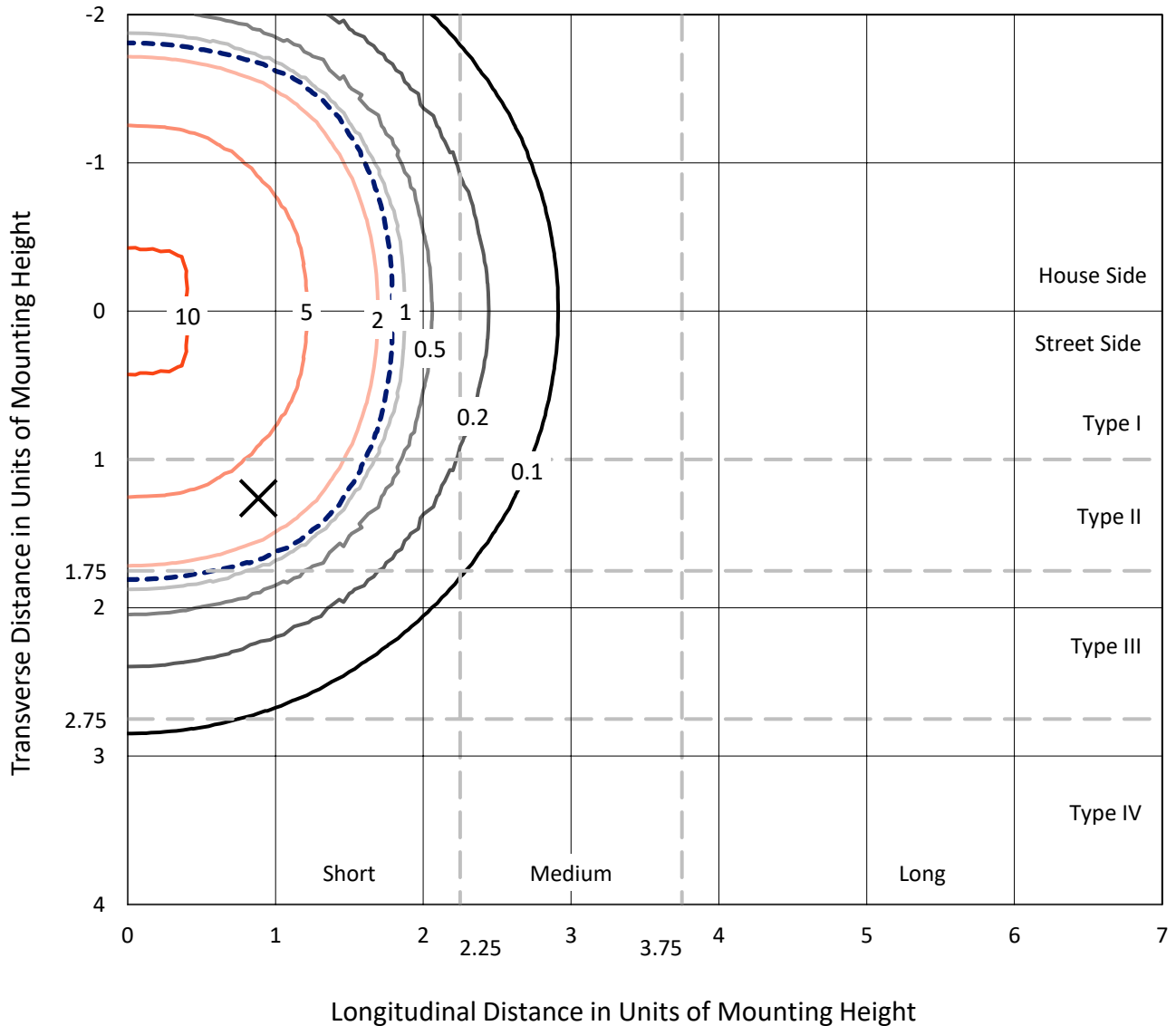
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P651489  
 CATALOG NUMBER: GALN-SA7D-840-U-5MQ-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

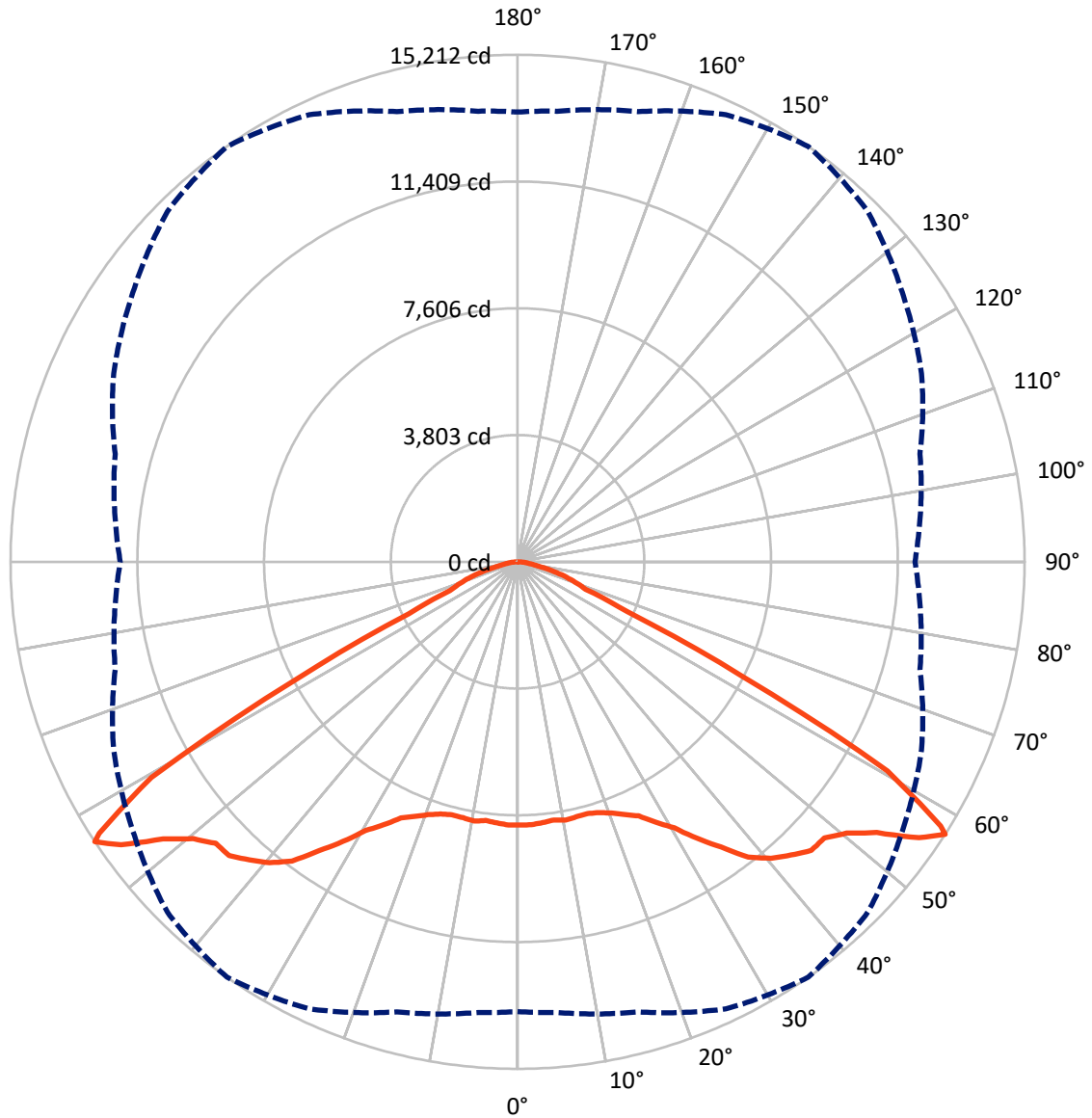
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc  
 Type V - Short - N/A

REPORT NUMBER: P651489  
CATALOG NUMBER: GALN-SA7D-840-U-5MQ-GRSWH

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P651489  
 CATALOG NUMBER: GALN-SA7D-840-U-5MQ-GRSWH

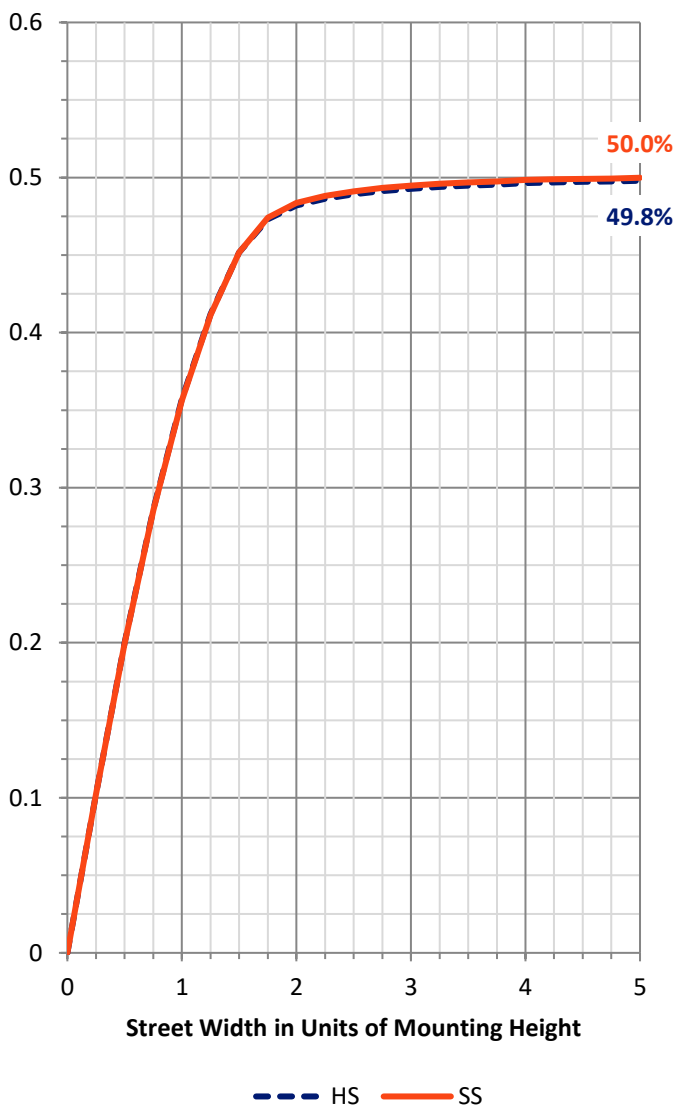
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19998.5	0.0	19998.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19998.5	0.0	19998.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	39997.1	0.0	39997.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	748.9	1.9
10°-20°	2217.9	5.5
20°-30°	3873.6	9.7
30°-40°	6347.0	15.9
40°-50°	9306.2	23.3
50°-60°	11721.9	29.3
60°-70°	4408.5	11.0
70°-80°	1172.2	2.9
80°-90°	201.0	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°	39997.1	100.0
0°-180°	39997.1	100.0

**Coefficient of Utilization**

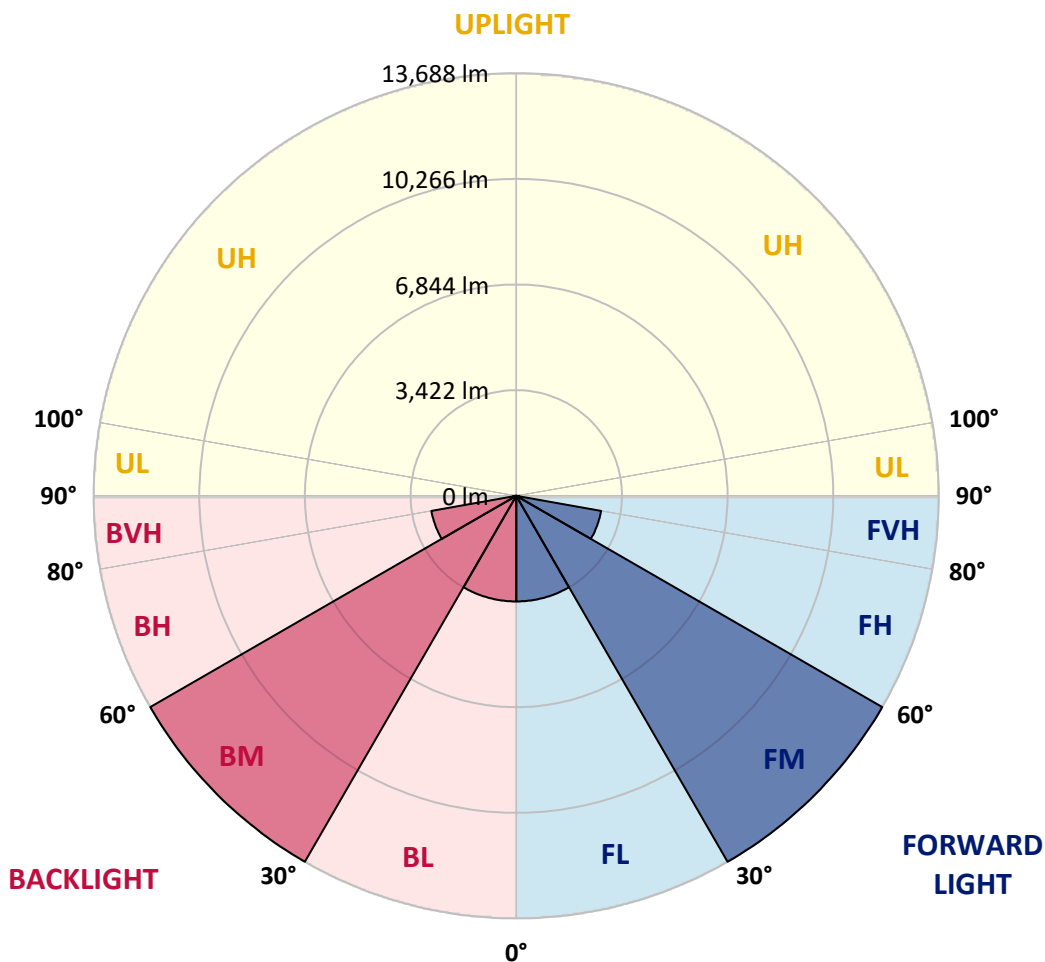


REPORT NUMBER: P651489  
 CATALOG NUMBER: GALN-SA7D-840-U-5MQ-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3420.2	8.6			
FM (30°-60°)	13687.5	34.2			
FH (60°-80°)	2790.3	7.0			G2/5000
FVH (80°-90°)	100.5	0.3			G2/225
BL (0°-30°)	3420.2	8.6	B4/5000		
BM (30°-60°)	13687.5	34.2	B5		
BH (60°-80°)	2790.3	7.0	B4/5000		G2/5000
BVH (80°-90°)	100.5	0.3			G2/225
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: P651489

CATALOG NUMBER: GALN-SA7D-840-U-5MQ-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7899.2	7899.2	7899.2	7899.2	7899.2	7899.2	7899.2	7899.2	7899.2	7899.2	7899.2
2.5°	7859.7	7938.5	7904.1	7884.4	7899.2	7874.5	7835.1	7879.4	7869.6	7830.1	7815.3
5°	7840.0	7899.2	7859.7	7899.2	7859.7	7928.7	7909.0	7835.1	7923.7	7840.0	7869.6
7.5°	7825.3	7844.9	7854.8	7835.1	7820.3	7904.1	7859.7	7825.3	7776.0	7761.2	7785.8
10°	7790.7	7840.0	7766.0	7864.6	7884.4	7825.3	7825.3	7761.2	7721.7	7697.1	7780.8
12.5°	7879.4	7795.6	7785.8	7835.1	7849.9	7874.5	7805.5	7771.0	7697.1	7706.9	7692.2
15°	7776.0	7810.5	7815.3	7825.3	7840.0	7899.2	7835.1	7761.2	7731.6	7628.1	7638.0
17.5°	7815.3	7780.8	7815.3	7928.7	7909.0	7953.3	7884.4	7771.0	7702.0	7642.9	7721.7
20°	7884.4	7869.6	7884.4	8022.3	8046.9	8086.4	8027.3	7923.7	7790.7	7721.7	7761.2
22.5°	7958.3	7948.4	7958.3	8091.3	8234.2	8283.5	8224.4	7982.9	7913.9	7785.8	7741.5
25°	8091.3	8101.2	8204.6	8352.5	8446.1	8539.8	8431.4	8258.9	8037.1	7958.3	7864.6
27.5°	8387.0	8411.6	8470.7	8687.5	8850.2	8933.9	8781.2	8544.6	8406.7	8244.1	8219.4
30°	8751.6	8751.6	8855.1	9042.3	9264.1	9392.2	9205.0	8924.1	8756.6	8667.9	8613.7
32.5°	9234.5	9180.4	9219.8	9549.9	9894.9	10003.3	9752.0	9407.0	9140.9	9022.7	8983.2
35°	9648.5	9682.9	9771.7	10126.5	10510.8	10762.1	10367.9	9919.5	9648.5	9540.1	9520.4
37.5°	10185.6	10244.7	10289.0	10776.9	11240.1	11333.7	10954.4	10594.6	10264.4	10175.8	10126.5
40°	10944.4	10905.1	10919.8	11279.6	11698.4	11757.5	11383.0	11126.8	10855.8	10801.6	10801.6
42.5°	11570.3	11525.9	11575.2	11708.2	12028.6	11984.2	11777.3	11590.0	11476.6	11417.5	11476.6
45°	11949.7	11939.8	12028.6	12127.1	12353.8	12205.9	12043.4	12072.9	11964.5	11865.9	11861.0
47.5°	12363.6	12299.6	12408.0	12555.8	12383.4	12314.3	12304.5	12368.6	12334.1	12161.6	12107.4
50°	12565.7	12541.1	12713.5	12886.0	12792.4	12634.7	12669.2	12772.7	12329.1	12097.5	11964.5
52.5°	13107.7	13112.7	13442.8	13536.5	13497.0	13265.4	13339.4	13058.5	12536.1	12210.9	12225.7
55°	13960.3	13925.7	14295.3	14571.3	14615.7	14320.0	13965.1	13571.0	12915.6	12585.4	12486.8
57°	13492.1	13571.0	13979.9	14798.0	15211.8	14862.0	14088.3	13368.9	12496.7	12097.5	11920.2
57.5°	12866.3	12994.4	13704.0	14526.9	14960.5	14931.0	13935.6	12994.4	12215.9	11595.0	11609.7
60°	9426.8	9451.4	10092.0	11397.8	12752.9	12782.5	11570.3	10323.6	9456.3	8781.2	8874.8
62.5°	4972.1	5085.4	5341.6	6391.3	7564.0	7849.9	7115.6	6475.0	5726.0	5213.5	5262.8
65°	2631.4	2616.6	2739.8	3035.5	3612.0	3759.9	3661.3	3153.8	2892.5	2808.8	2813.7
67.5°	2138.7	2163.3	2148.5	2163.3	2202.7	2266.7	2251.9	2271.7	2286.4	2311.1	2306.2
70°	1813.4	1813.4	1823.3	1828.2	1828.2	1857.8	1892.2	1956.3	1961.2	1985.9	1995.7
72.5°	1429.0	1419.2	1434.0	1468.5	1473.3	1498.0	1547.3	1586.7	1601.5	1601.5	1571.9
75°	970.8	980.6	1000.3	1029.9	1059.5	1103.8	1143.3	1167.9	1177.7	1162.9	1148.1
77.5°	547.0	556.8	571.6	615.9	650.4	689.9	734.2	758.8	783.5	788.4	758.8
80°	325.2	325.2	349.9	384.3	423.8	463.2	502.7	532.2	542.0	542.0	527.3
82.5°	197.1	202.0	221.8	256.3	290.7	315.4	349.9	374.5	394.2	389.3	379.5
85°	103.4	103.4	123.2	152.7	177.4	202.0	202.0	187.3	177.4	152.7	142.9
87.5°	34.5	29.6	39.4	39.4	34.5	39.4	39.4	44.3	44.3	44.3	44.3
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)