

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: P533945

Luminaire Tested: **GALN-SA9B-830-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533945
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-830-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21382 lumens
Efficiency: N/A
Efficacy: 58.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 364
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

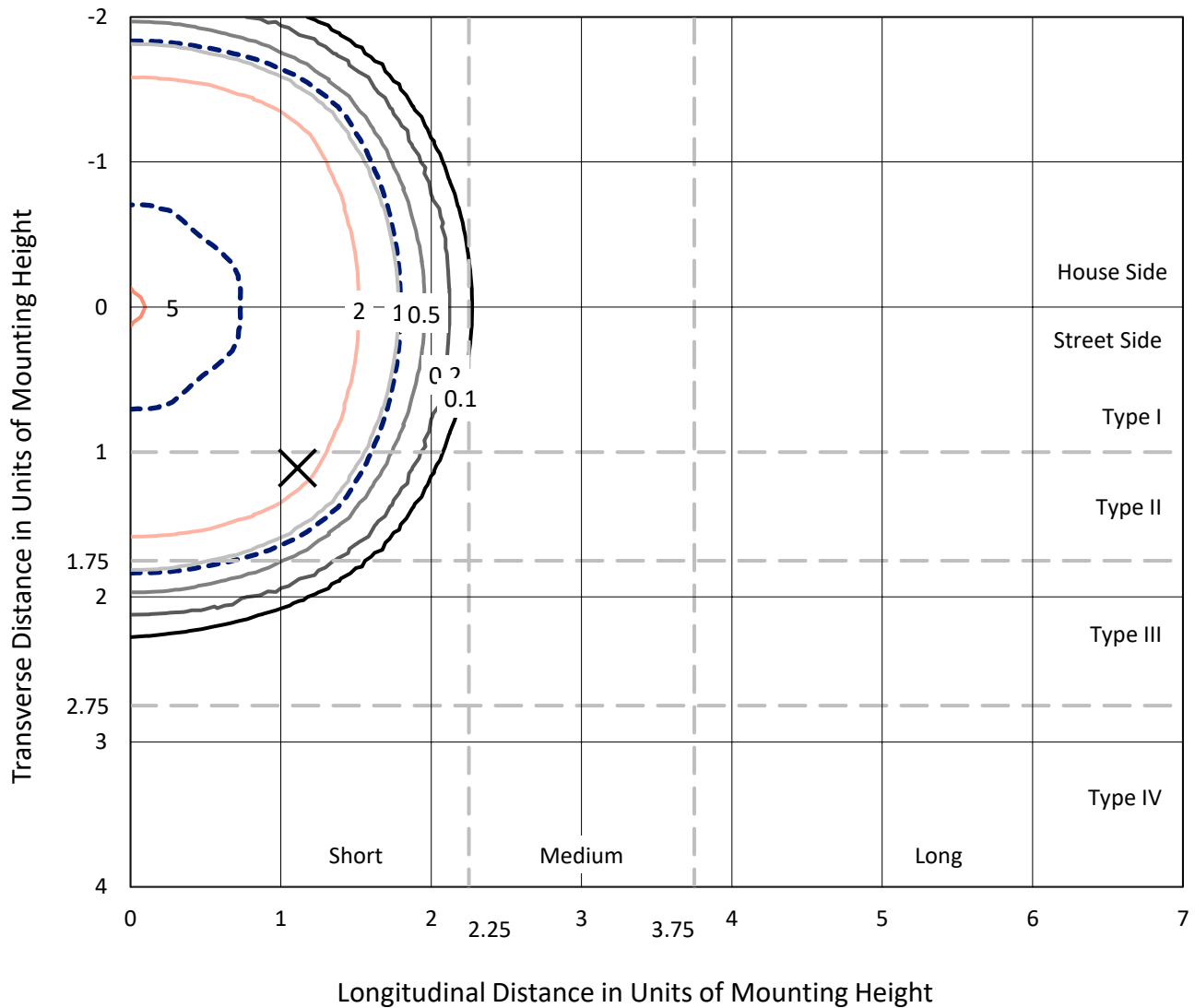


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Iso-Footcandle Lines of Horizontal Illumination

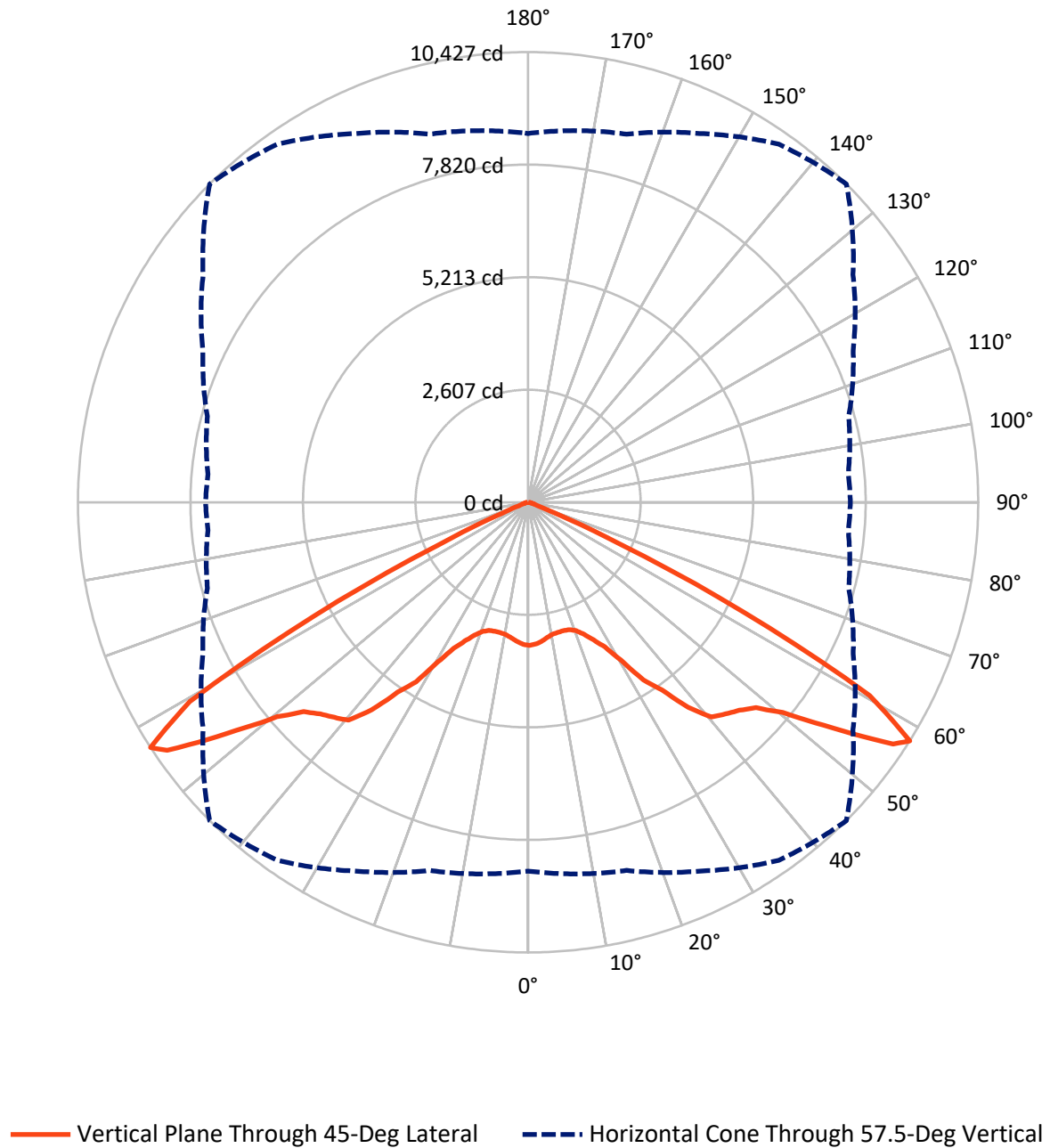
✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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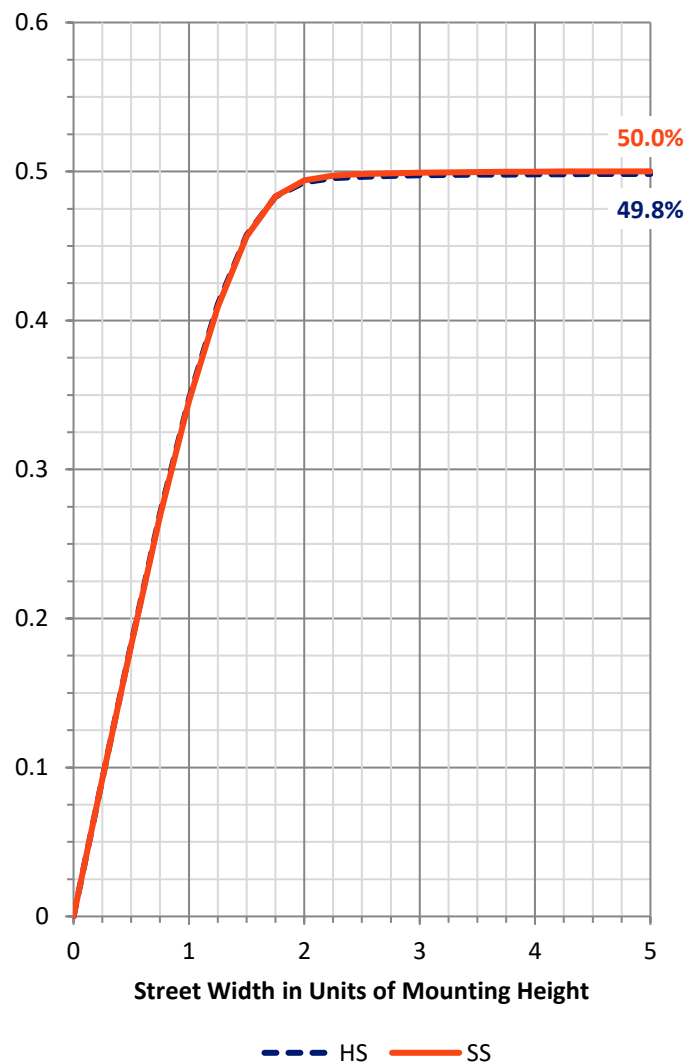
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10691.0	0.0	10691.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10691.0	0.0	10691.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21382.0	0.0	21382.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.8	1.4
10°-20°	880.9	4.1
20°-30°	1626.1	7.6
30°-40°	3197.9	15.0
40°-50°	5208.5	24.4
50°-60°	7428.0	34.7
60°-70°	2571.8	12.0
70°-80°	138.0	0.6
80°-90°	25.9	0.1
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°	21382.0	100.0
0°-180°	21382.0	100.0

Coefficient of Utilization



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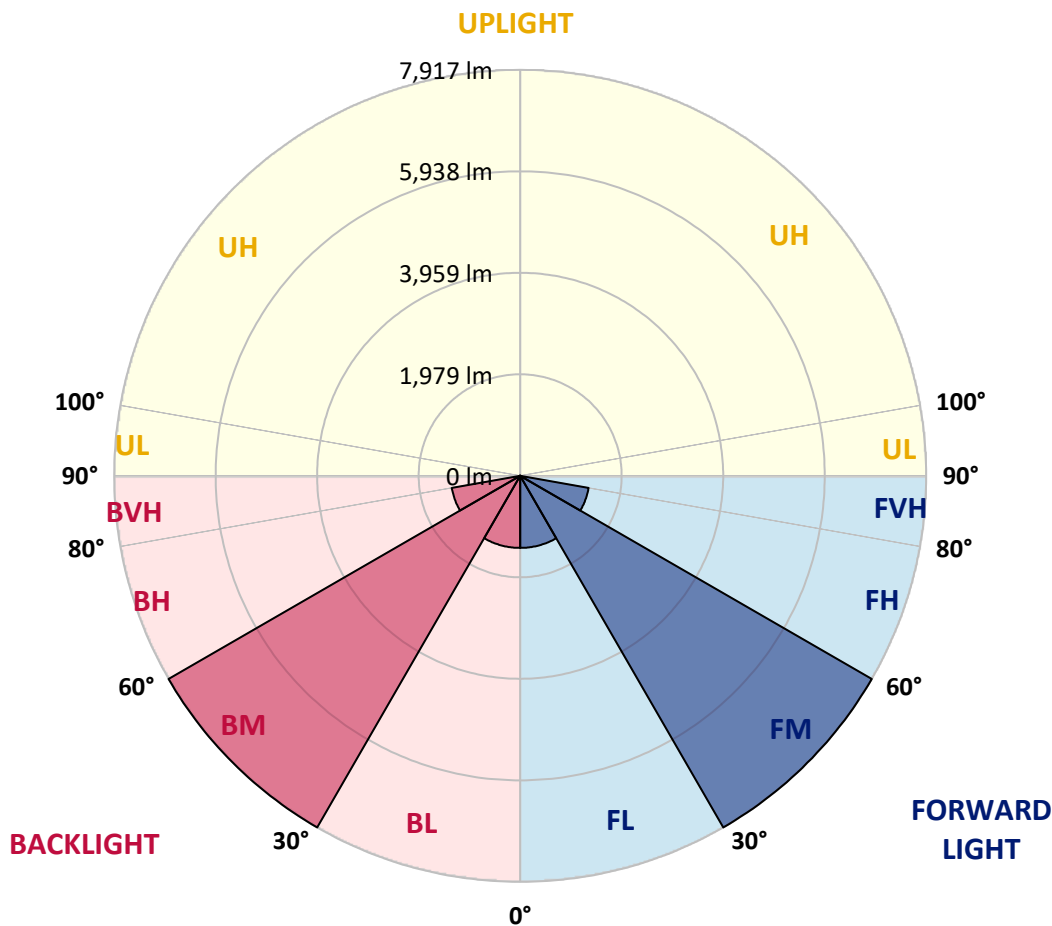
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1405.9	6.6			
FM	(30°-60°)	7917.3	37.0			
FH	(60°-80°)	1354.9	6.3			G1/1800
FVH	(80°-90°)	13.0	0.1			G1/100
BL	(0°-30°)	1405.9	6.6	B3/2500		
BM	(30°-60°)	7917.3	37.0	B4/8500		
BH	(60°-80°)	1354.9	6.3	B3/2500		G1/1800
BVH	(80°-90°)	13.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3316.6	3316.6	3316.6	3316.6	3316.6	3316.6	3316.6	3316.6	3316.6	3316.6	3316.6
2.5°	3307.7	3325.5	3303.2	3294.3	3289.8	3289.8	3276.5	3276.5	3272.0	3276.5	3258.6
5°	3254.2	3272.0	3272.0	3267.5	3240.8	3236.3	3223.0	3214.0	3218.5	3200.7	3214.0
7.5°	3200.7	3214.0	3196.2	3191.8	3182.8	3165.0	3160.6	3120.4	3124.9	3124.9	3133.8
10°	3191.8	3187.3	3160.6	3138.3	3111.5	3107.1	3093.7	3084.8	3084.8	3080.3	3093.7
12.5°	3191.8	3169.5	3165.0	3116.0	3071.4	3089.2	3053.6	3031.3	3062.5	3071.4	3089.2
15°	3187.3	3209.6	3133.8	3111.5	3080.3	3084.8	3053.6	3031.3	3049.1	3058.0	3071.4
17.5°	3214.0	3200.7	3178.4	3133.8	3120.4	3102.6	3062.5	3044.6	3044.6	3066.9	3071.4
20°	3285.4	3249.7	3205.1	3182.8	3196.2	3173.9	3124.9	3058.0	3075.9	3093.7	3107.1
22.5°	3352.2	3325.5	3294.3	3280.9	3356.7	3321.0	3236.3	3160.6	3133.8	3165.0	3187.3
25°	3481.5	3481.5	3423.6	3441.4	3526.1	3530.5	3432.5	3298.7	3280.9	3294.3	3303.2
27.5°	3744.5	3757.9	3708.9	3726.7	3762.3	3793.6	3708.9	3597.4	3557.3	3552.8	3566.2
30°	4029.8	4056.6	4052.1	4127.9	4230.4	4248.2	4123.4	3940.7	3820.3	3798.0	3815.8
32.5°	4404.3	4417.6	4408.7	4497.9	4774.3	4903.5	4578.1	4319.6	4159.1	4199.2	4159.1
35°	5108.6	5095.2	4997.1	5015.0	5242.3	5335.9	5023.9	4859.0	4783.2	4863.4	4845.6
37.5°	5714.8	5665.8	5585.6	5701.5	5937.7	6022.4	5697.0	5407.3	5269.1	5402.8	5460.8
40°	6227.5	6102.7	5991.2	6107.1	6423.6	6539.5	6062.6	5826.3	5772.8	5870.9	5995.7
42.5°	6659.9	6579.7	6432.5	6441.5	6651.0	6704.5	6321.1	6182.9	6129.4	6285.4	6347.8
45°	6967.5	6891.7	6753.5	6744.6	6905.1	6869.4	6526.2	6432.5	6463.7	6566.3	6597.5
47.5°	7123.5	7163.6	7083.4	7105.7	7190.4	7105.7	6833.7	6833.7	6762.4	6824.8	6793.6
50°	7573.7	7448.9	7551.4	7551.4	7640.6	7649.5	7377.6	7279.5	7087.8	6980.8	6980.8
52.5°	8099.7	8108.7	8148.8	8295.9	8447.5	8576.7	8188.9	7769.9	7448.9	7310.7	7292.9
55°	8532.1	8621.3	8781.8	9058.2	9495.0	9673.3	9004.7	8255.8	7863.5	7649.5	7604.9
56°	8768.4	8683.7	8960.1	9339.0	9909.6	10141.4	9138.4	8353.8	7921.4	7680.7	7676.3
57.5°	8541.1	8634.7	8826.4	9423.7	10123.6	10426.7	9187.4	8309.3	7689.6	7444.5	7466.7
60°	6744.6	6833.7	7092.3	7761.0	8857.6	9093.8	7774.3	6851.6	6298.8	5946.6	5951.1
62.5°	3815.8	3882.7	4083.3	4702.9	5385.0	5612.3	4845.6	4230.4	3847.0	3650.9	3588.5
65°	1404.2	1377.4	1408.7	1725.2	2144.2	2335.9	2014.9	1702.9	1502.3	1430.9	1404.2
67.5°	526.0	485.9	454.7	485.9	610.7	646.4	592.9	494.8	463.6	477.0	485.9
70°	325.4	307.6	245.2	231.8	227.3	222.9	236.3	249.6	285.3	334.3	343.2
72.5°	227.3	214.0	173.9	164.9	156.0	151.6	173.9	191.7	222.9	258.5	263.0
75°	89.2	93.6	89.2	98.1	102.5	107.0	124.8	138.2	151.6	151.6	147.1
77.5°	17.8	17.8	26.7	35.7	44.6	58.0	84.7	98.1	102.5	98.1	84.7
80°	0.0	0.0	8.9	17.8	35.7	49.0	75.8	84.7	93.6	84.7	66.9
82.5°	0.0	0.0	8.9	22.3	35.7	44.6	71.3	89.2	102.5	93.6	71.3
85°	0.0	0.0	8.9	17.8	26.7	31.2	31.2	22.3	22.3	13.4	8.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)