

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: P453164

Luminaire Tested: **GALN-SA4A-830-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453164
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-830-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14350 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 121
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

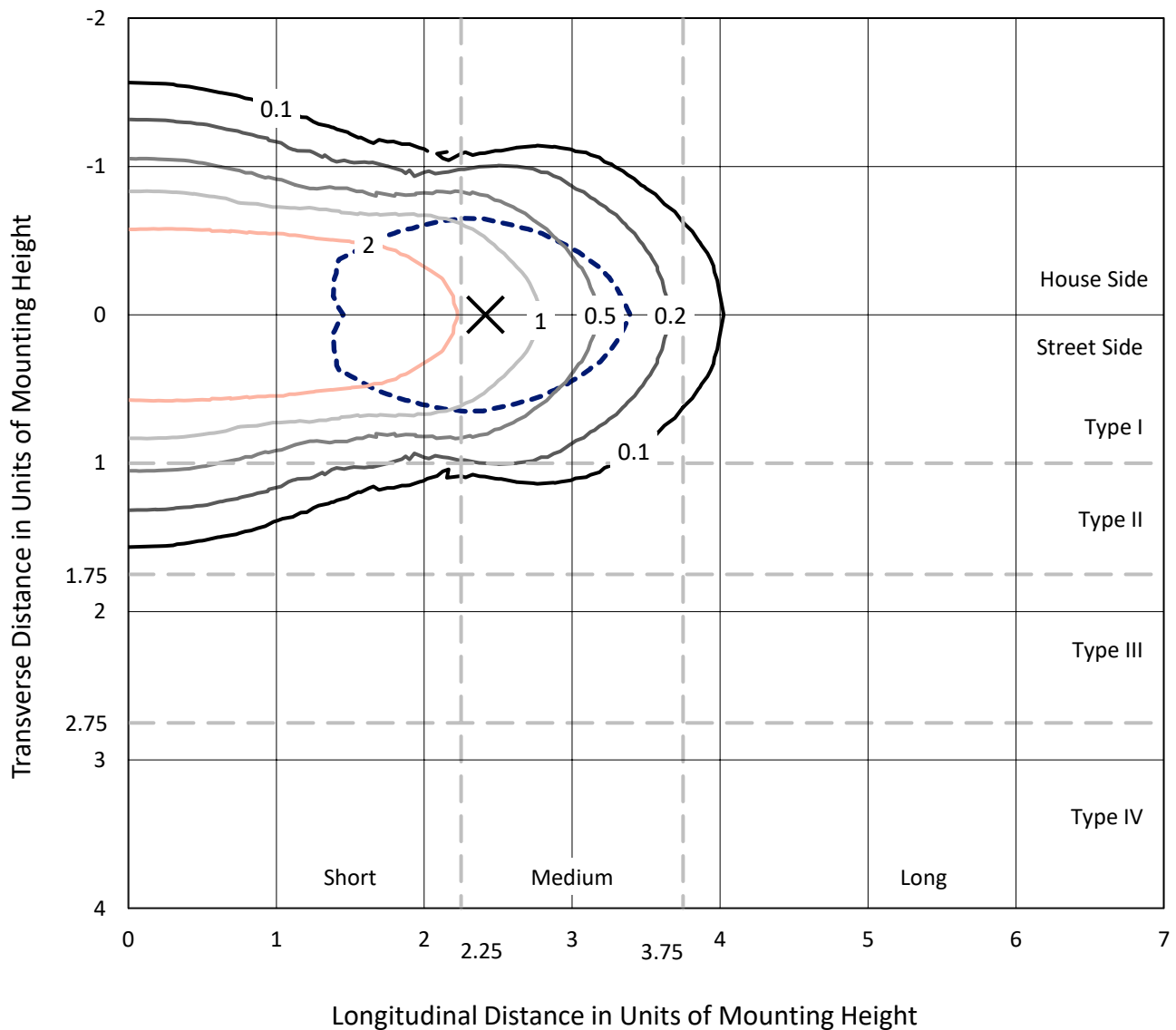


REPORT NUMBER: P453164

CATALOG NUMBER: GALN-SA4A-830-U-T1

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

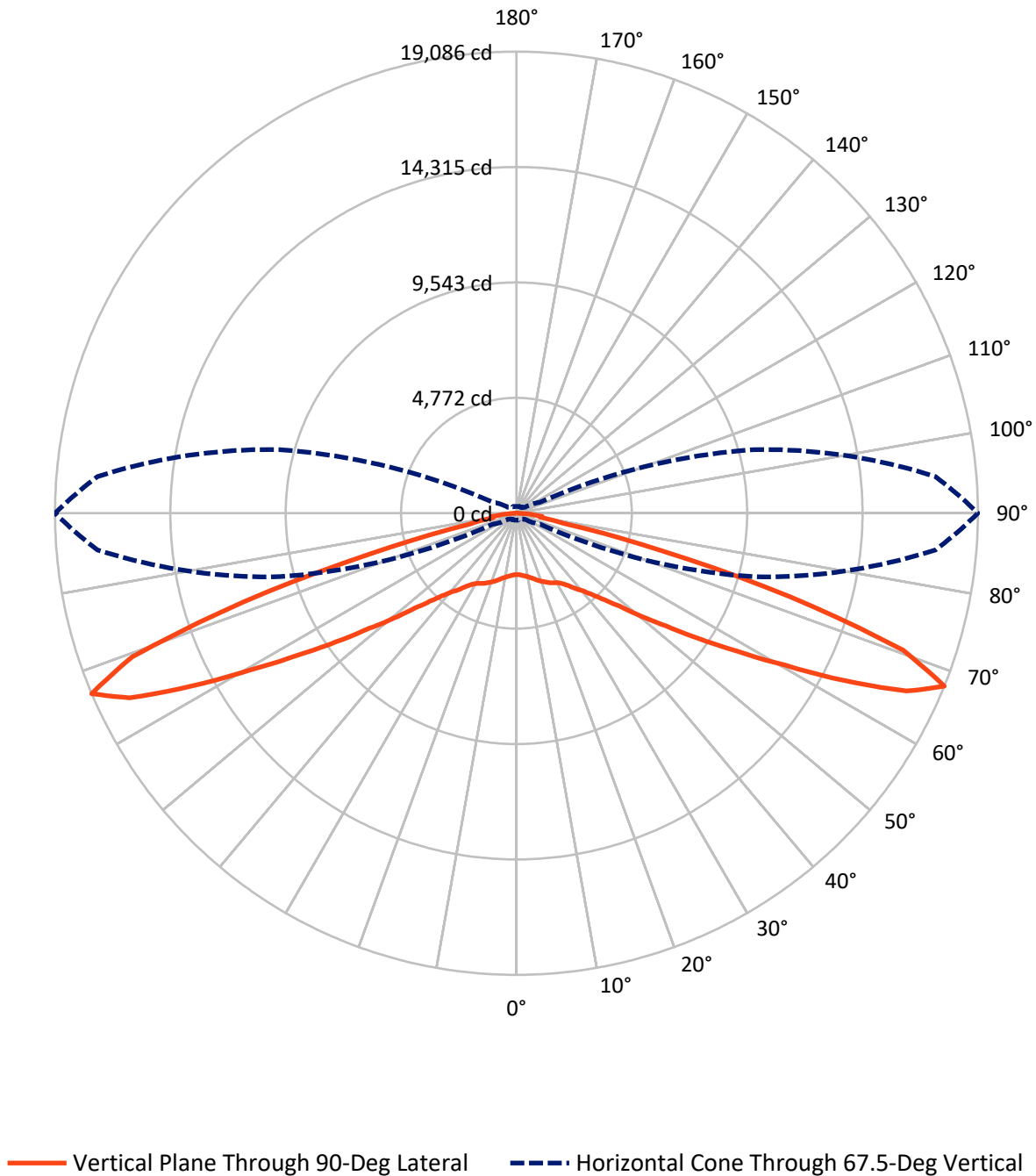


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
Type I - Short - N/A

REPORT NUMBER: P453164

CATALOG NUMBER: GALN-SA4A-830-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P453164

CATALOG NUMBER: GALN-SA4A-830-U-T1

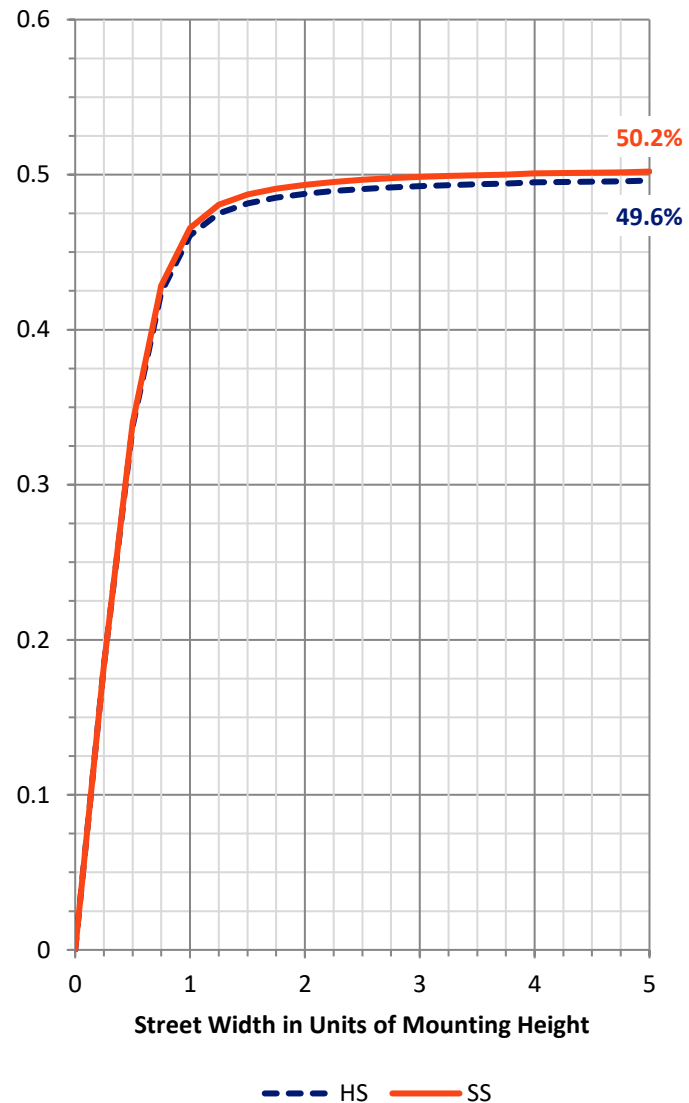
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7175.0	0.0	7175.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7175.0	0.0	7175.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14350.0	0.0	14350.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.3	1.8
10°-20°	810.3	5.6
20°-30°	1356.3	9.5
30°-40°	1837.5	12.8
40°-50°	2327.4	16.2
50°-60°	2907.6	20.3
60°-70°	3417.7	23.8
70°-80°	1307.4	9.1
80°-90°	132.5	0.9
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°	14350.0	100.0
0°-180°	14350.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453164

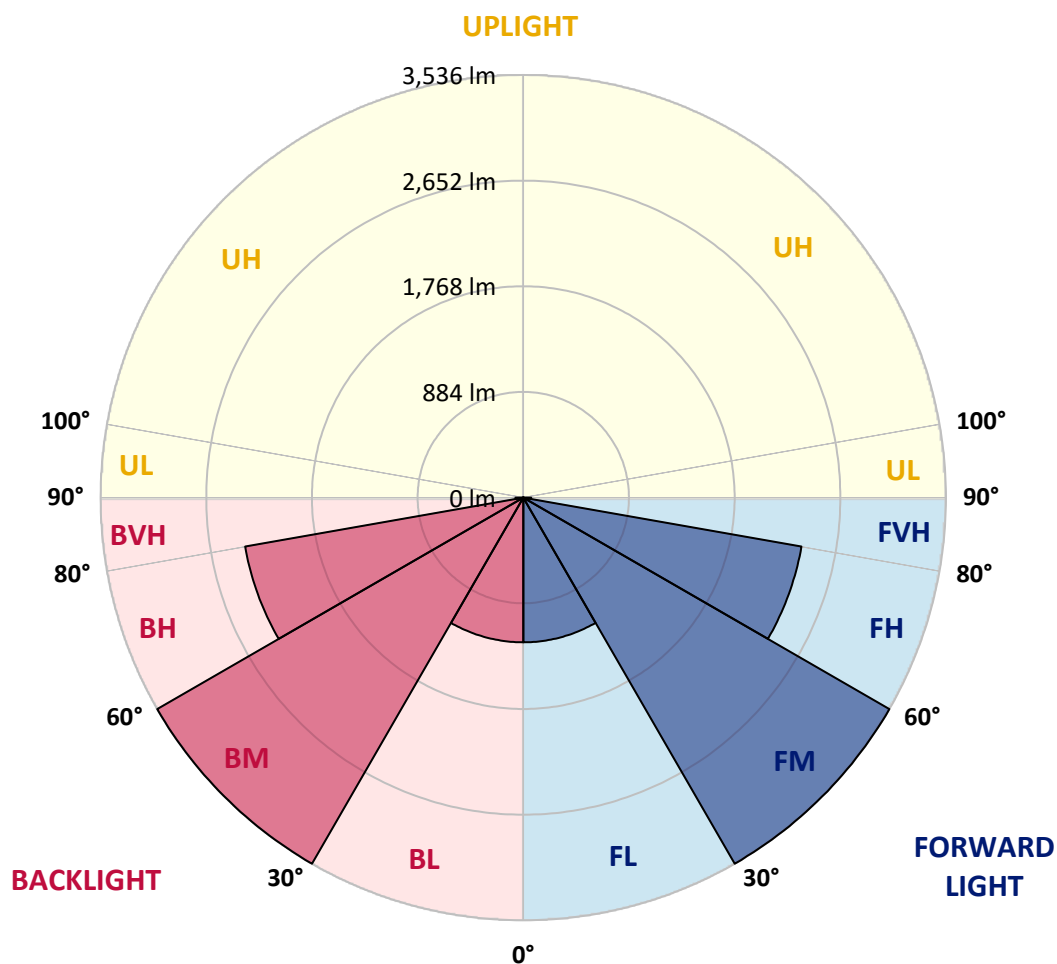
CATALOG NUMBER: GALN-SA4A-830-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1210.0	8.4			
FM	(30°-60°)	3536.2	24.6			
FH	(60°-80°)	2362.6	16.5			G2/5000
FVH	(80°-90°)	66.2	0.5			G1/100
BL	(0°-30°)	1210.0	8.4	B3/2500		
BM	(30°-60°)	3536.2	24.6	B3/5000		
BH	(60°-80°)	2362.6	16.5	B3/2500		G3/2500
BVH	(80°-90°)	66.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short





REPORT NUMBER: P453164

CATALOG NUMBER: GALN-SA4A-830-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2540.4	2540.4	2540.4	2540.4	2540.4	2540.4	2540.4	2540.4	2540.4	2540.4	2540.4
2.5°	2573.0	2571.4	2572.2	2571.4	2573.8	2572.2	2562.6	2554.7	2548.3	2549.1	2546.8
5°	2627.8	2628.6	2629.4	2625.4	2631.0	2627.8	2612.7	2600.0	2587.3	2582.5	2580.9
7.5°	2673.1	2677.1	2679.5	2683.4	2693.0	2693.0	2685.0	2666.7	2638.9	2623.0	2622.2
10°	2718.4	2721.6	2728.7	2741.4	2757.3	2772.4	2769.2	2744.6	2708.9	2681.8	2675.5
12.5°	2734.3	2738.3	2762.1	2798.6	2834.4	2863.8	2863.8	2843.9	2797.9	2756.5	2744.6
15°	2678.7	2685.8	2728.7	2806.6	2900.4	2964.7	2979.0	2951.2	2901.9	2838.4	2824.1
17.5°	2568.2	2585.7	2648.5	2763.7	2919.4	3052.9	3094.2	3080.7	3017.2	2936.1	2919.4
20°	2449.8	2468.9	2535.6	2688.2	2903.5	3104.6	3224.6	3227.7	3149.1	3031.5	3006.8
22.5°	2319.5	2333.8	2419.6	2598.4	2855.9	3116.5	3336.6	3391.4	3285.0	3126.8	3091.9
25°	2173.3	2189.2	2279.0	2472.1	2766.1	3103.0	3439.1	3559.9	3427.2	3228.5	3184.0
27.5°	2033.4	2039.8	2135.9	2332.2	2647.7	3068.0	3514.6	3714.8	3584.5	3312.8	3256.3
30°	1899.1	1914.2	1999.3	2193.1	2511.8	2999.7	3579.8	3891.2	3753.8	3401.0	3328.7
32.5°	1756.9	1775.2	1867.4	2063.6	2375.9	2897.2	3619.5	4084.3	3989.8	3544.0	3466.9
35°	1620.2	1632.1	1725.1	1915.8	2243.2	2778.0	3626.6	4302.1	4294.1	3760.9	3658.4
37.5°	1480.4	1497.9	1591.6	1774.4	2102.6	2651.6	3590.9	4533.3	4661.2	4062.1	3951.6
40°	1346.1	1361.2	1453.4	1637.7	1942.8	2497.5	3505.9	4744.7	5089.5	4372.0	4215.5
42.5°	1199.9	1203.8	1304.8	1492.3	1786.3	2318.7	3383.5	4933.0	5567.1	4787.6	4592.9
45°	1033.8	1044.1	1137.9	1322.2	1606.7	2118.5	3217.4	5088.7	6172.6	5363.7	5098.3
47.5°	867.7	876.5	962.3	1144.3	1410.4	1888.8	2961.5	5225.4	6794.0	6095.5	5747.5
50°	705.6	710.4	780.3	941.6	1189.5	1647.2	2644.5	5269.1	7496.4	7131.7	6687.5
52.5°	557.8	565.0	618.2	744.6	953.5	1362.0	2302.0	5161.1	8316.5	8360.2	7734.0
55°	452.1	454.5	494.3	587.2	745.4	1063.2	1888.8	4859.9	9198.5	9934.3	9135.7
57.5°	389.4	391.0	413.2	464.9	573.7	801.8	1465.3	4290.1	9990.7	11778.6	10752.0
60°	353.6	354.4	367.1	397.3	454.5	615.0	1049.7	3486.0	10772.6	13831.1	12760.8
62.5°	331.4	331.4	340.1	356.8	384.6	472.0	760.5	2515.0	11308.2	15913.8	15236.8
65°	309.9	309.9	316.3	328.2	343.3	386.2	561.8	1640.1	11294.7	17430.8	17727.2
67.5°	285.3	285.3	290.0	302.0	310.7	332.2	433.9	1074.3	10145.7	17397.4	19086.0
70°	255.9	255.9	262.2	272.6	279.7	293.2	342.5	735.0	7453.5	14854.6	16973.9
72.5°	226.5	227.3	231.2	241.6	247.1	255.1	284.5	514.9	4572.2	10114.7	11868.4
75°	193.9	195.5	199.4	209.8	214.5	217.7	240.0	367.1	2313.1	5453.5	6209.2
77.5°	156.5	159.7	162.1	173.2	176.4	181.2	197.9	265.4	1015.5	1959.5	1977.0
80°	114.4	118.4	125.5	135.9	138.3	141.4	151.0	188.3	460.1	894.7	971.8
82.5°	84.2	89.8	81.1	94.6	94.6	90.6	106.5	126.3	211.4	886.0	1060.0
85°	46.1	46.9	42.1	48.5	51.7	50.9	56.4	62.0	102.5	591.2	609.5
87.5°	11.1	11.9	12.7	15.1	18.3	18.3	19.9	17.5	33.4	191.5	109.7
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)