

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: P452004

Luminaire Tested: **GALN-SA2D-830-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452004
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-SA2D-830-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12340 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 125
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

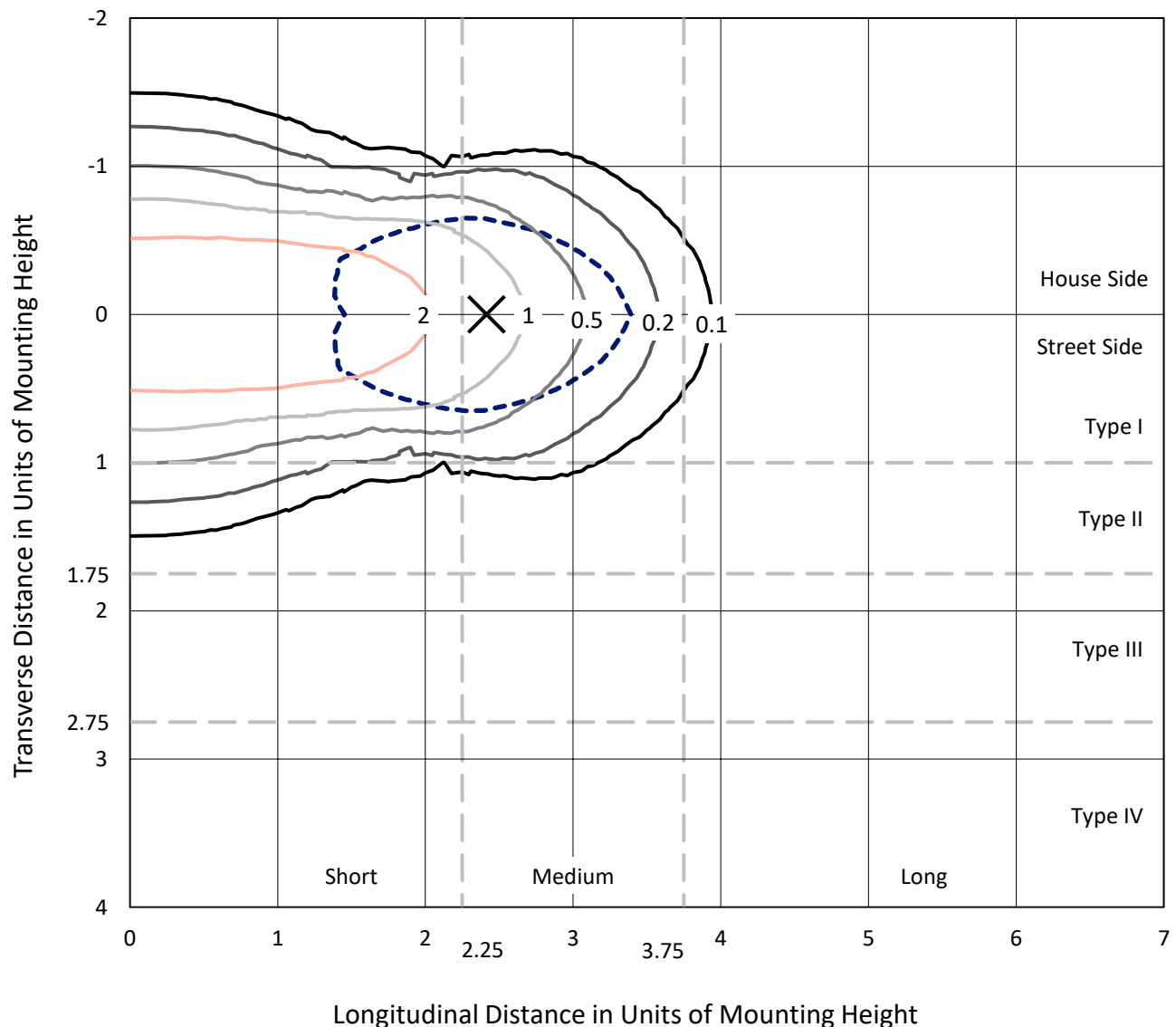


REPORT NUMBER: P452004

CATALOG NUMBER: GALN-SA2D-830-U-T1

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

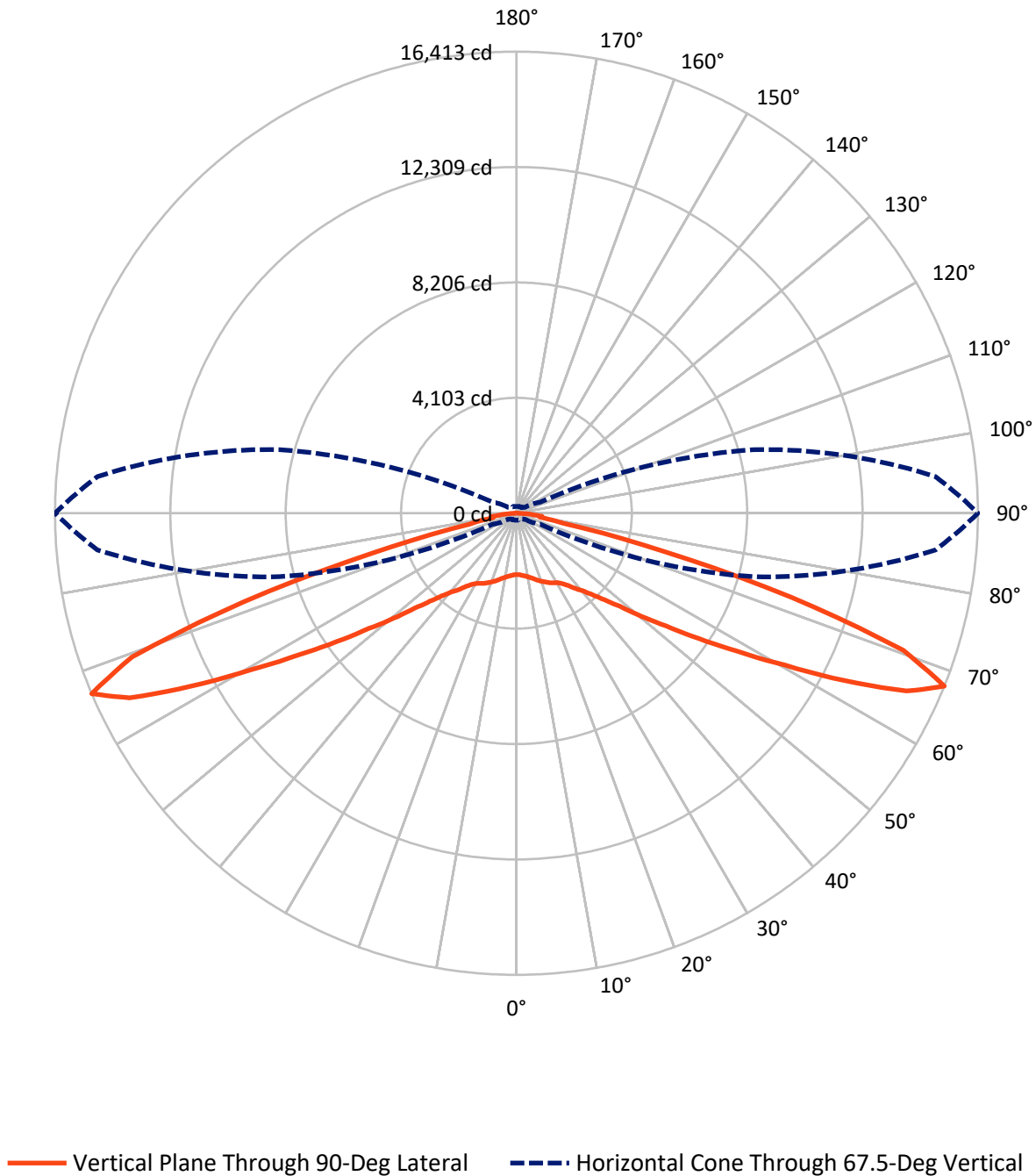


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type I - Short - N/A

REPORT NUMBER: P452004

CATALOG NUMBER: GALN-SA2D-830-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P452004

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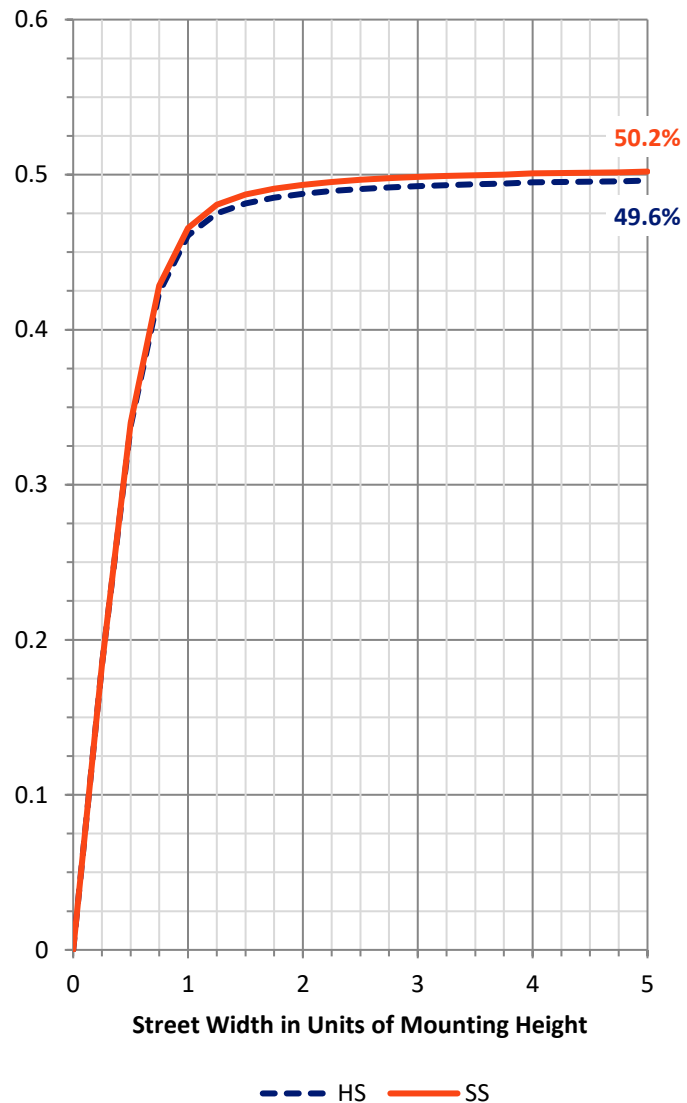
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6170.0	0.0	6170.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6170.0	0.0	6170.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12340.0	0.0	12340.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.8	1.8
10°-20°	696.8	5.6
20°-30°	1166.3	9.5
30°-40°	1580.1	12.8
40°-50°	2001.4	16.2
50°-60°	2500.3	20.3
60°-70°	2939.0	23.8
70°-80°	1124.3	9.1
80°-90°	113.9	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°	12340.0	100.0
0°-180°	12340.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452004

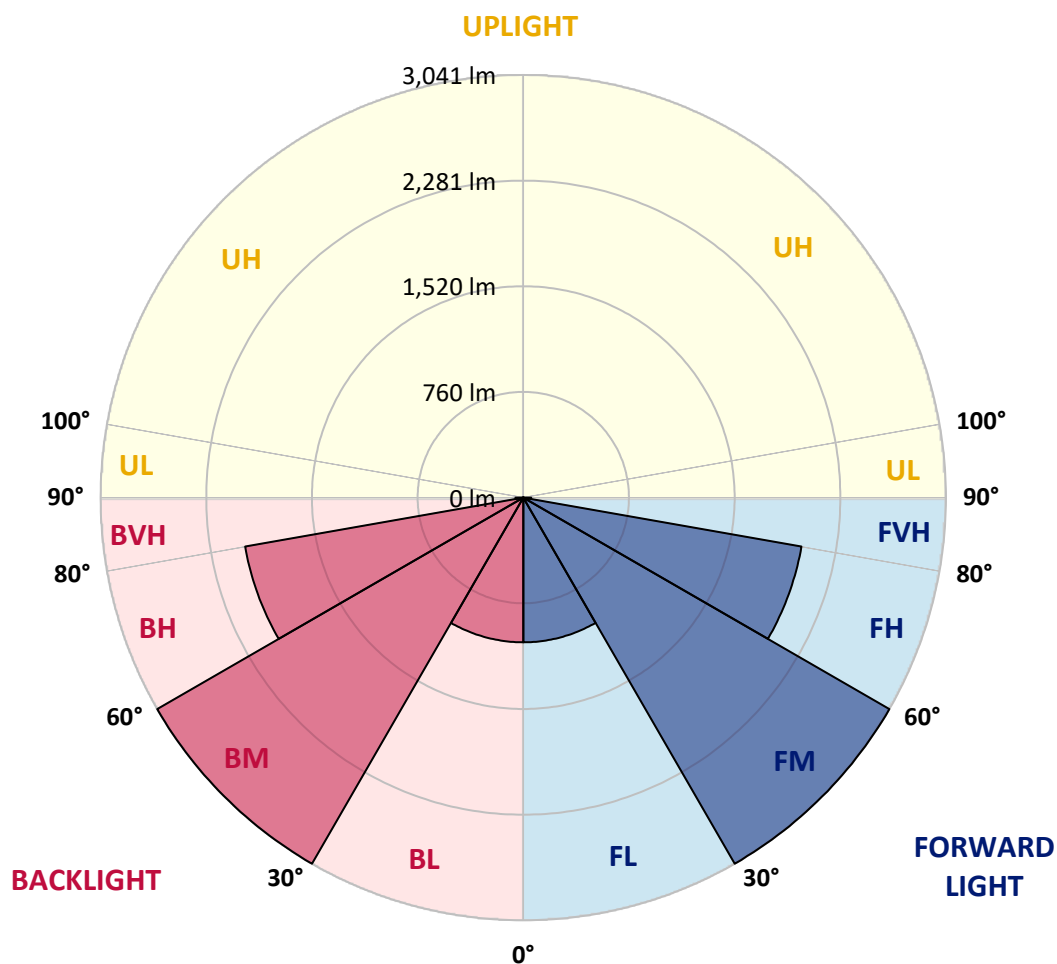
CATALOG NUMBER: GALN-SA2D-830-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1040.5	8.4			
FM	(30°-60°)	3040.9	24.6			
FH	(60°-80°)	2031.6	16.5			G2/5000
FVH	(80°-90°)	56.9	0.5			G1/100
BL	(0°-30°)	1040.5	8.4	B3/2500		
BM	(30°-60°)	3040.9	24.6	B3/5000		
BH	(60°-80°)	2031.6	16.5	B3/2500		G3/2500
BVH	(80°-90°)	56.9	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: P452004

CATALOG NUMBER: GALN-SA2D-830-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2184.6	2184.6	2184.6	2184.6	2184.6	2184.6	2184.6	2184.6	2184.6	2184.6	2184.6
2.5°	2212.6	2211.2	2211.9	2211.2	2213.3	2211.9	2203.7	2196.9	2191.4	2192.1	2190.0
5°	2259.7	2260.4	2261.1	2257.7	2262.5	2259.7	2246.7	2235.8	2224.9	2220.8	2219.4
7.5°	2298.7	2302.1	2304.1	2307.6	2315.8	2315.8	2308.9	2293.2	2269.3	2255.6	2254.9
10°	2337.6	2340.4	2346.5	2357.4	2371.1	2384.1	2381.4	2360.2	2329.4	2306.2	2300.7
12.5°	2351.3	2354.7	2375.2	2406.6	2437.4	2462.7	2462.7	2445.6	2406.0	2370.4	2360.2
15°	2303.5	2309.6	2346.5	2413.5	2494.1	2549.5	2561.8	2537.8	2495.5	2440.8	2428.5
17.5°	2208.5	2223.5	2277.5	2376.6	2510.5	2625.3	2660.8	2649.2	2594.6	2524.9	2510.5
20°	2106.7	2123.1	2180.5	2311.7	2496.8	2669.7	2772.9	2775.6	2708.0	2606.9	2585.7
22.5°	1994.6	2006.9	2080.7	2234.4	2455.8	2680.0	2869.2	2916.4	2824.8	2688.9	2658.8
25°	1868.9	1882.5	1959.8	2125.8	2378.6	2668.4	2957.4	3061.3	2947.1	2776.3	2738.1
27.5°	1748.6	1754.1	1836.8	2005.5	2276.8	2638.3	3022.3	3194.5	3082.4	2848.7	2800.2
30°	1633.1	1646.1	1719.2	1886.0	2160.0	2579.5	3078.3	3346.2	3228.0	2924.6	2862.4
32.5°	1510.8	1526.5	1605.8	1774.6	2043.1	2491.4	3112.5	3512.2	3430.9	3047.6	2981.3
35°	1393.3	1403.5	1483.5	1647.5	1929.0	2388.9	3118.7	3699.5	3692.6	3234.1	3146.0
37.5°	1273.0	1288.1	1368.7	1525.8	1808.1	2280.2	3087.9	3898.3	4008.3	3493.1	3398.1
40°	1157.5	1170.5	1249.8	1408.3	1670.7	2147.7	3014.8	4080.1	4376.6	3759.6	3625.0
42.5°	1031.8	1035.2	1122.0	1283.3	1536.1	1993.9	2909.6	4242.0	4787.3	4117.0	3949.6
45°	889.0	897.9	978.5	1137.0	1381.7	1821.7	2766.8	4376.0	5308.0	4612.4	4384.2
47.5°	746.2	753.7	827.5	984.0	1212.9	1624.2	2546.7	4493.5	5842.4	5241.7	4942.4
50°	606.8	610.9	671.0	809.7	1022.9	1416.5	2274.1	4531.1	6446.4	6132.8	5750.8
52.5°	479.7	485.8	531.6	640.3	820.0	1171.2	1979.6	4438.1	7151.6	7189.2	6650.7
55°	388.8	390.9	425.0	505.0	641.0	914.3	1624.2	4179.2	7910.1	8542.8	7856.1
57.5°	334.8	336.2	355.3	399.7	493.4	689.5	1260.0	3689.2	8591.3	10128.8	9246.0
60°	304.1	304.8	315.7	341.7	390.9	528.9	902.7	2997.7	9263.7	11893.8	10973.4
62.5°	284.9	284.9	292.5	306.8	330.7	405.9	653.9	2162.7	9724.3	13684.8	13102.6
65°	266.5	266.5	272.0	282.2	295.2	332.1	483.1	1410.4	9712.7	14989.2	15244.1
67.5°	245.3	245.3	249.4	259.7	267.2	285.6	373.1	923.8	8724.6	14960.5	16412.6
70°	220.0	220.0	225.5	234.4	240.5	252.1	294.5	632.1	6409.5	12773.9	14596.3
72.5°	194.7	195.4	198.8	207.7	212.5	219.3	244.6	442.8	3931.8	8697.9	10206.0
75°	166.7	168.1	171.5	180.4	184.5	187.2	206.4	315.7	1989.1	4689.6	5339.4
77.5°	134.6	137.3	139.4	149.0	151.7	155.8	170.1	228.2	873.3	1685.1	1700.1
80°	98.4	101.8	108.0	116.8	118.9	121.6	129.8	161.9	395.6	769.4	835.7
82.5°	72.4	77.2	69.7	81.3	81.3	77.9	91.6	108.6	181.8	761.9	911.5
85°	39.6	40.3	36.2	41.7	44.4	43.7	48.5	53.3	88.1	508.4	524.1
87.5°	9.6	10.2	10.9	13.0	15.7	15.7	17.1	15.0	28.7	164.7	94.3
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)