

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: LUMARK

Report Number: P965651

Luminaire Tested: **NAV-SB4A-740-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4A-740-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19286.4 lumens
Efficiency: N/A
Efficacy: 169.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

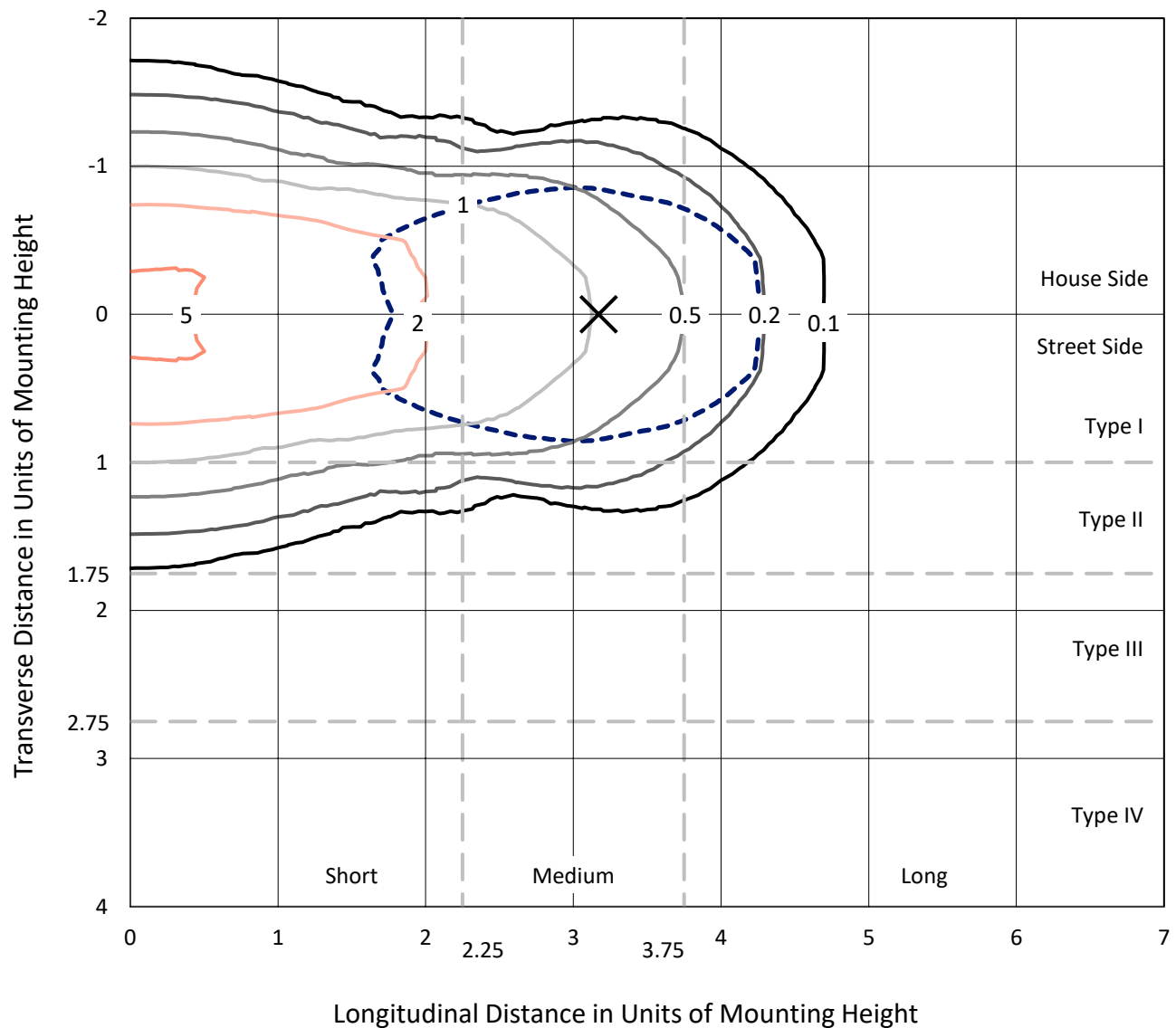
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

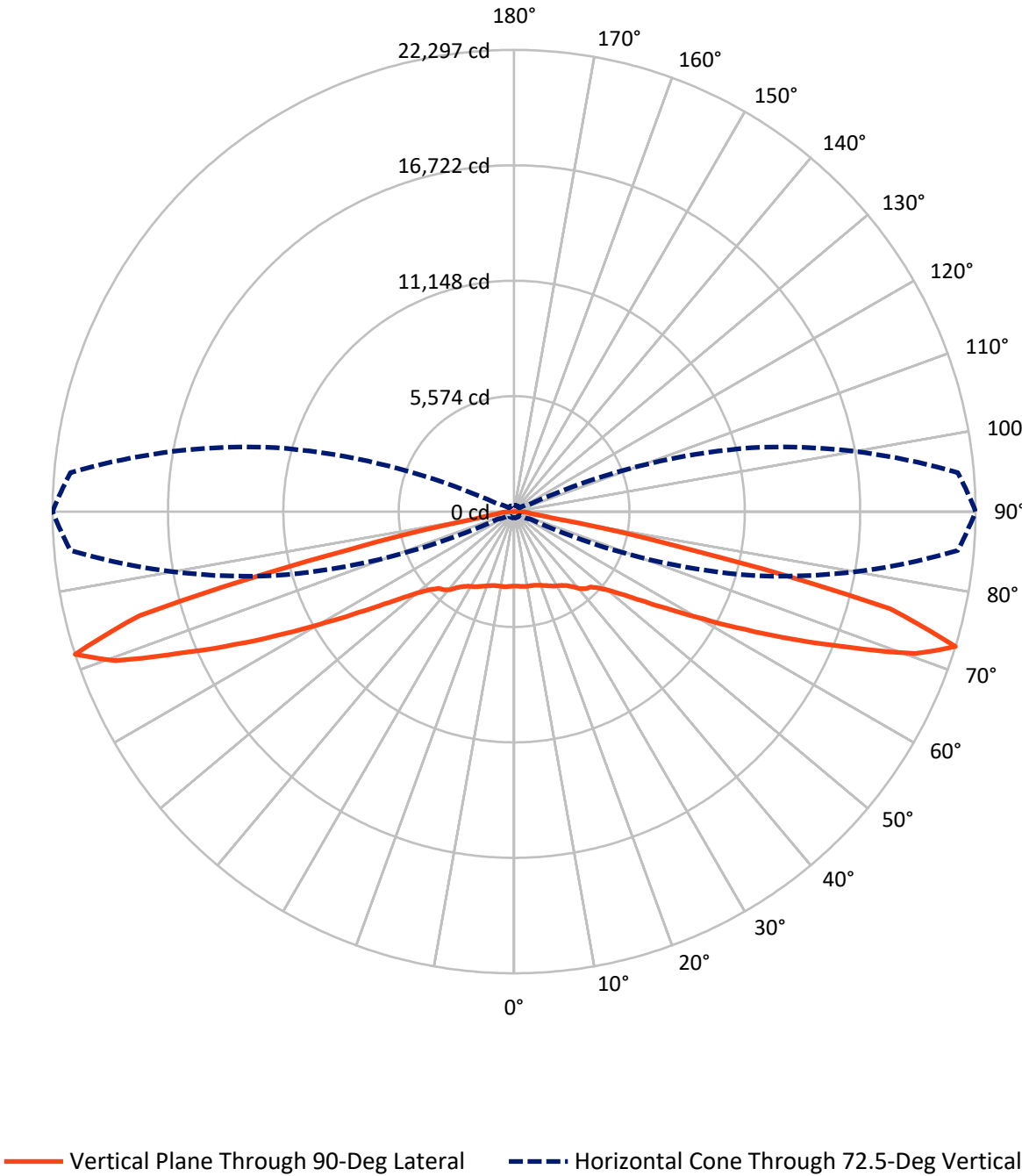
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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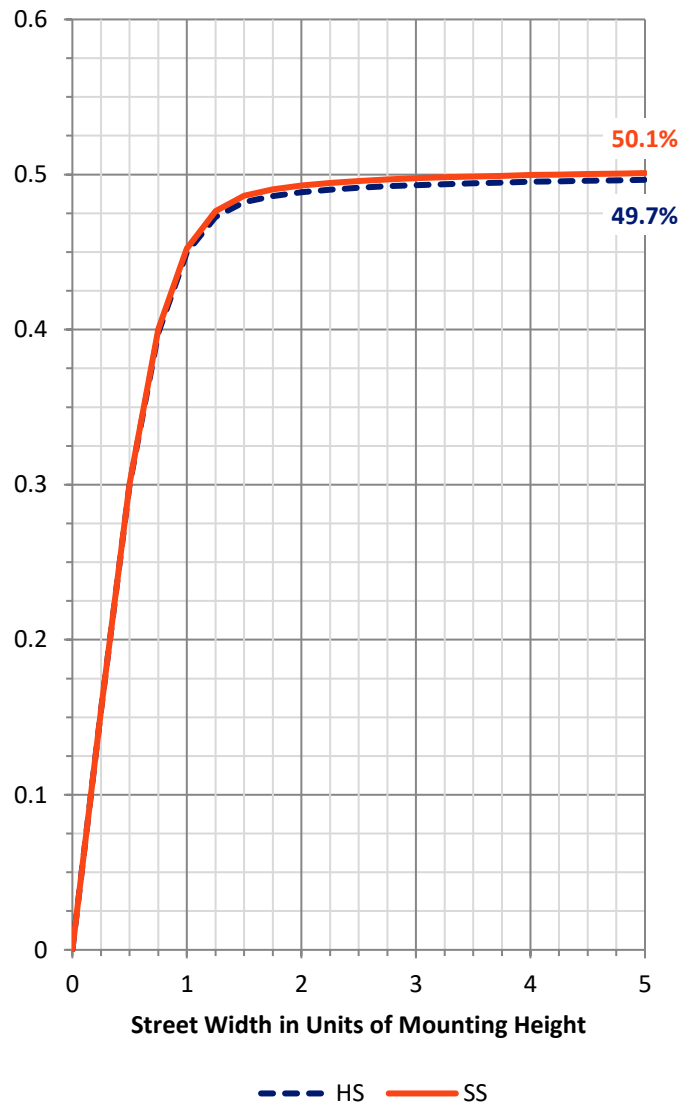
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9643.2	0.0	9643.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9643.2	0.0	9643.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	19286.4	0.0	19286.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.4	1.8
10°-20°	1068.4	5.5
20°-30°	1781.5	9.2
30°-40°	2450.2	12.7
40°-50°	2992.3	15.5
50°-60°	3460.9	17.9
60°-70°	4126.6	21.4
70°-80°	2880.1	14.9
80°-90°	176.9	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°	19286.4	100.0
0°-180°	19286.4	100.0

Coefficient of Utilization



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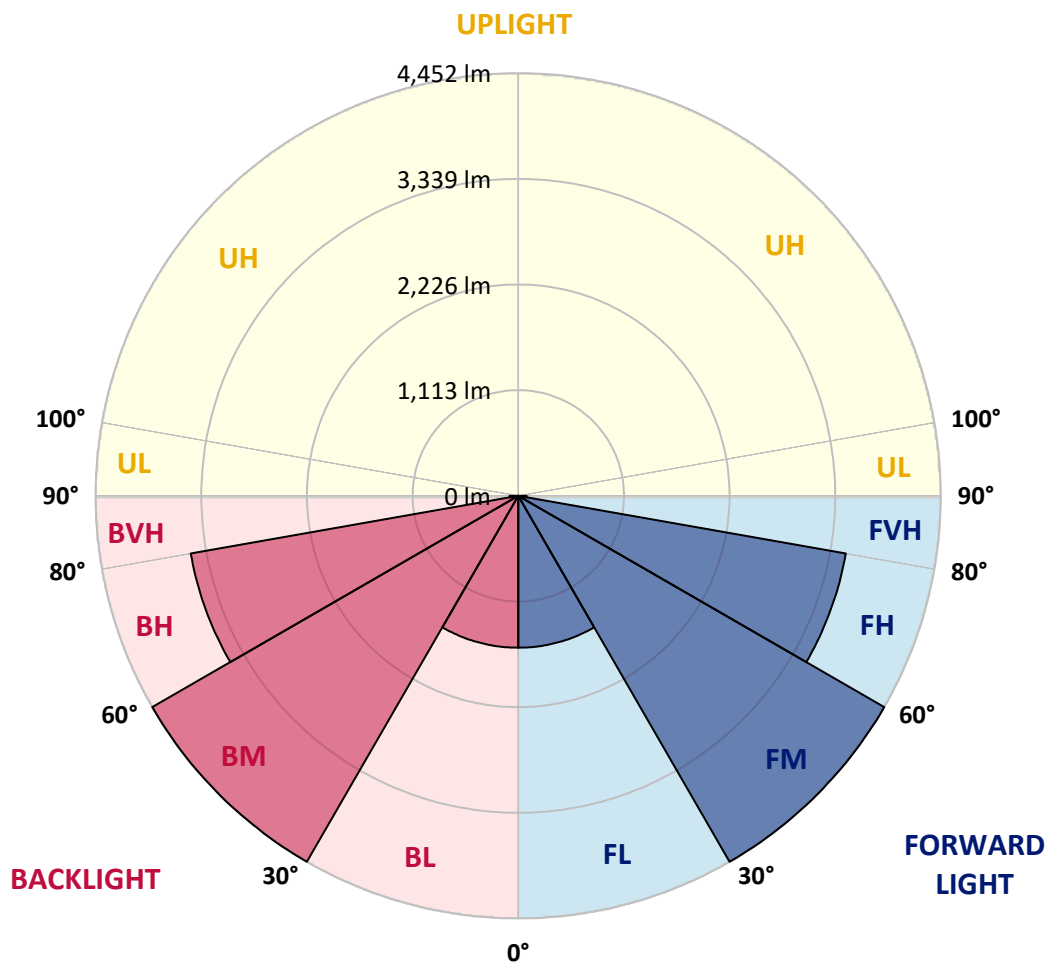
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1599.7	8.3			
FM	(30°-60°)	4451.7	23.1			
FH	(60°-80°)	3503.3	18.2			G2/5000
FVH	(80°-90°)	88.4	0.5			G1/100
BL	(0°-30°)	1599.7	8.3	B3/2500		
BM	(30°-60°)	4451.7	23.1	B3/5000		
BH	(60°-80°)	3503.3	18.2	B4/5000		G4/5000
BVH	(80°-90°)	88.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9
2.5°	3607.0	3611.1	3611.1	3608.0	3615.2	3609.0	3609.0	3606.0	3609.0	3606.0	3606.0
5°	3625.4	3630.6	3632.6	3631.6	3640.8	3635.7	3635.7	3631.6	3632.6	3629.5	3629.5
7.5°	3660.3	3667.4	3671.6	3676.7	3690.0	3683.8	3679.7	3667.4	3662.3	3654.1	3654.1
10°	3671.6	3679.7	3693.1	3719.7	3750.5	3751.5	3739.2	3708.4	3684.9	3666.4	3663.4
12.5°	3636.7	3648.0	3675.6	3730.0	3798.6	3826.3	3806.8	3755.6	3709.5	3676.7	3671.6
15°	3592.6	3604.9	3647.0	3729.0	3830.4	3895.0	3893.0	3825.3	3751.5	3700.2	3692.0
17.5°	3524.0	3536.2	3596.7	3711.5	3855.0	3961.6	3990.3	3920.6	3817.1	3748.4	3737.2
20°	3399.9	3411.2	3495.2	3656.2	3863.2	4032.3	4107.2	4045.7	3916.5	3823.2	3805.8
22.5°	3239.0	3256.4	3354.8	3560.8	3843.7	4106.2	4240.4	4198.4	4032.3	3903.2	3879.6
25°	3066.8	3085.2	3200.0	3444.0	3793.5	4159.4	4398.3	4371.6	4163.5	4002.6	3969.8
27.5°	2918.2	2937.6	3062.7	3328.2	3715.6	4180.0	4554.1	4567.4	4322.4	4112.3	4077.4
30°	2801.3	2819.8	2953.0	3234.9	3615.2	4159.4	4690.4	4782.6	4484.4	4207.6	4157.4
32.5°	2673.2	2696.8	2837.2	3121.1	3496.3	4110.2	4809.3	5015.3	4672.0	4310.1	4246.6
35°	2511.2	2532.8	2680.4	2965.3	3340.5	4031.3	4908.7	5273.6	4940.5	4465.9	4395.2
37.5°	2314.4	2335.0	2481.5	2770.6	3185.7	3920.6	4984.6	5564.7	5260.3	4690.4	4596.1
40°	2116.6	2136.1	2273.4	2553.3	3000.2	3779.2	5011.2	5849.6	5627.2	4998.9	4898.5
42.5°	1935.2	1952.6	2078.7	2339.0	2792.1	3598.8	4976.4	6097.6	5956.2	5214.2	5085.0
45°	1768.1	1783.5	1895.2	2138.1	2575.8	3379.4	4871.8	6364.1	6347.7	5367.9	5193.7
47.5°	1577.5	1592.8	1708.7	1943.4	2359.5	3122.1	4694.5	6626.5	6892.0	5716.3	5515.5
50°	1344.8	1358.1	1477.0	1718.9	2135.1	2848.5	4448.5	6832.5	7578.7	6244.2	5992.0
52.5°	1069.1	1083.4	1199.2	1441.1	1868.6	2554.3	4124.6	6966.8	8372.1	7015.0	6704.4
55°	795.4	805.6	906.1	1123.4	1538.5	2219.1	3718.7	7004.7	9272.0	8068.7	7680.2
57.5°	577.1	583.2	647.8	809.7	1166.4	1799.9	3225.7	6906.3	10343.2	9419.6	8930.7
60°	467.4	469.4	488.9	560.7	810.8	1326.4	2630.1	6568.1	11505.5	11161.1	10545.1
62.5°	424.4	424.4	429.5	449.0	548.4	875.4	1909.6	5867.0	12751.9	13361.8	12536.7
65°	394.6	394.6	396.7	405.9	432.6	557.6	1205.4	4725.2	13802.5	15939.7	14896.2
67.5°	368.0	369.0	368.0	371.0	386.4	412.0	699.0	3263.6	14368.3	18610.7	17484.2
70°	340.3	342.3	337.2	337.2	349.5	350.5	437.7	1789.6	13898.9	20849.3	20553.1
72.5°	307.5	310.6	302.4	300.3	309.5	305.4	329.0	859.0	11932.9	21517.6	22296.6
75°	278.8	282.9	264.4	259.3	259.3	256.2	267.5	440.7	7744.8	17552.9	18774.7
77.5°	253.2	261.4	231.6	215.2	211.2	201.9	218.3	269.6	3387.6	8240.9	8069.7
80°	209.1	220.4	190.6	171.2	164.0	153.8	172.2	188.6	1007.6	1913.7	1832.7
82.5°	155.8	160.9	135.3	122.0	115.8	108.6	129.1	131.2	328.0	677.5	765.7
85°	99.4	101.5	83.0	71.8	68.7	65.6	82.0	71.8	125.0	498.2	723.6
87.5°	34.8	40.0	31.8	28.7	30.7	25.6	37.9	21.5	34.8	351.6	435.6
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)