

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: P968379

Luminaire Tested: **NAV-SB5B-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968379
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-SB5B-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25080.7 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

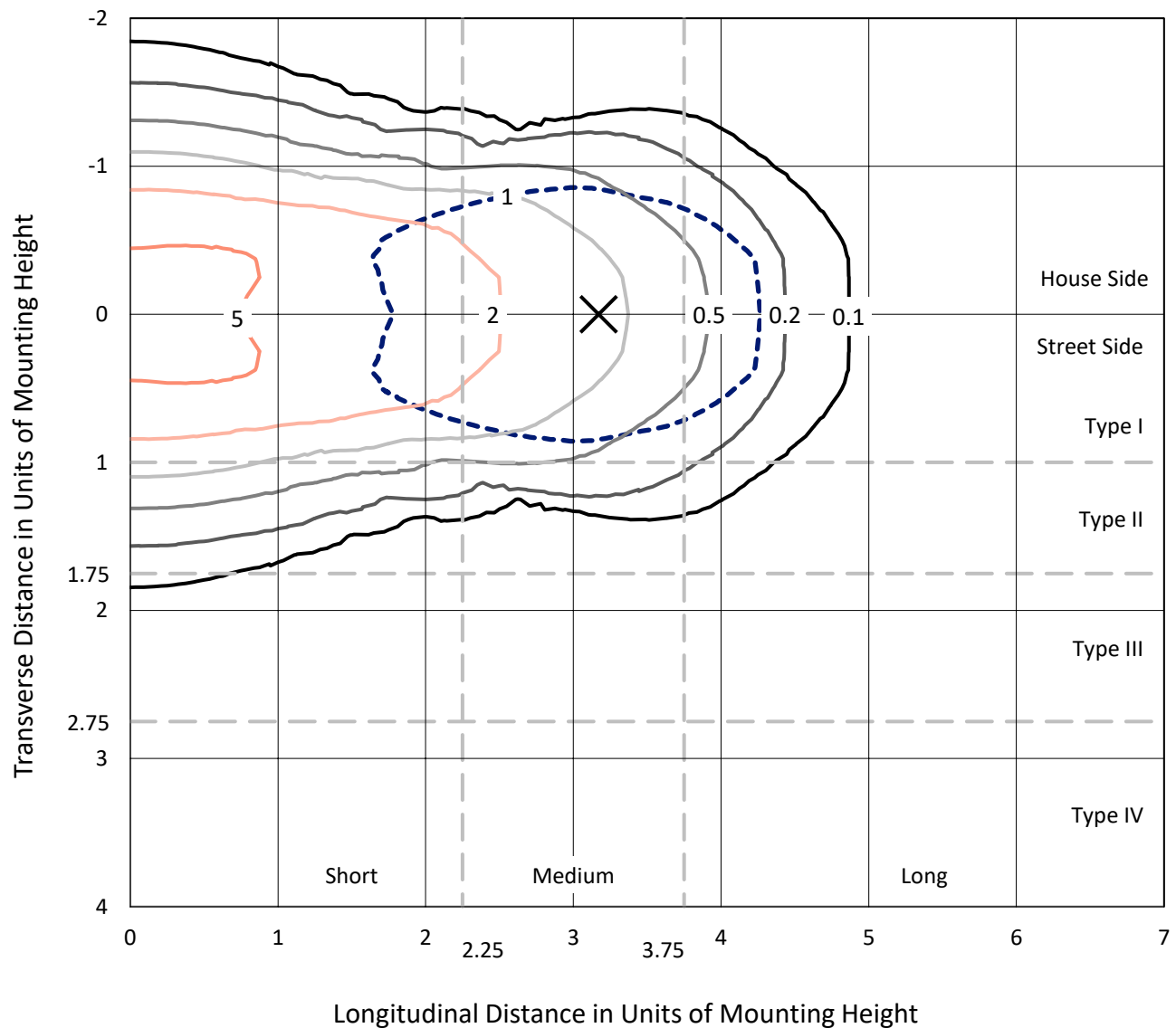
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

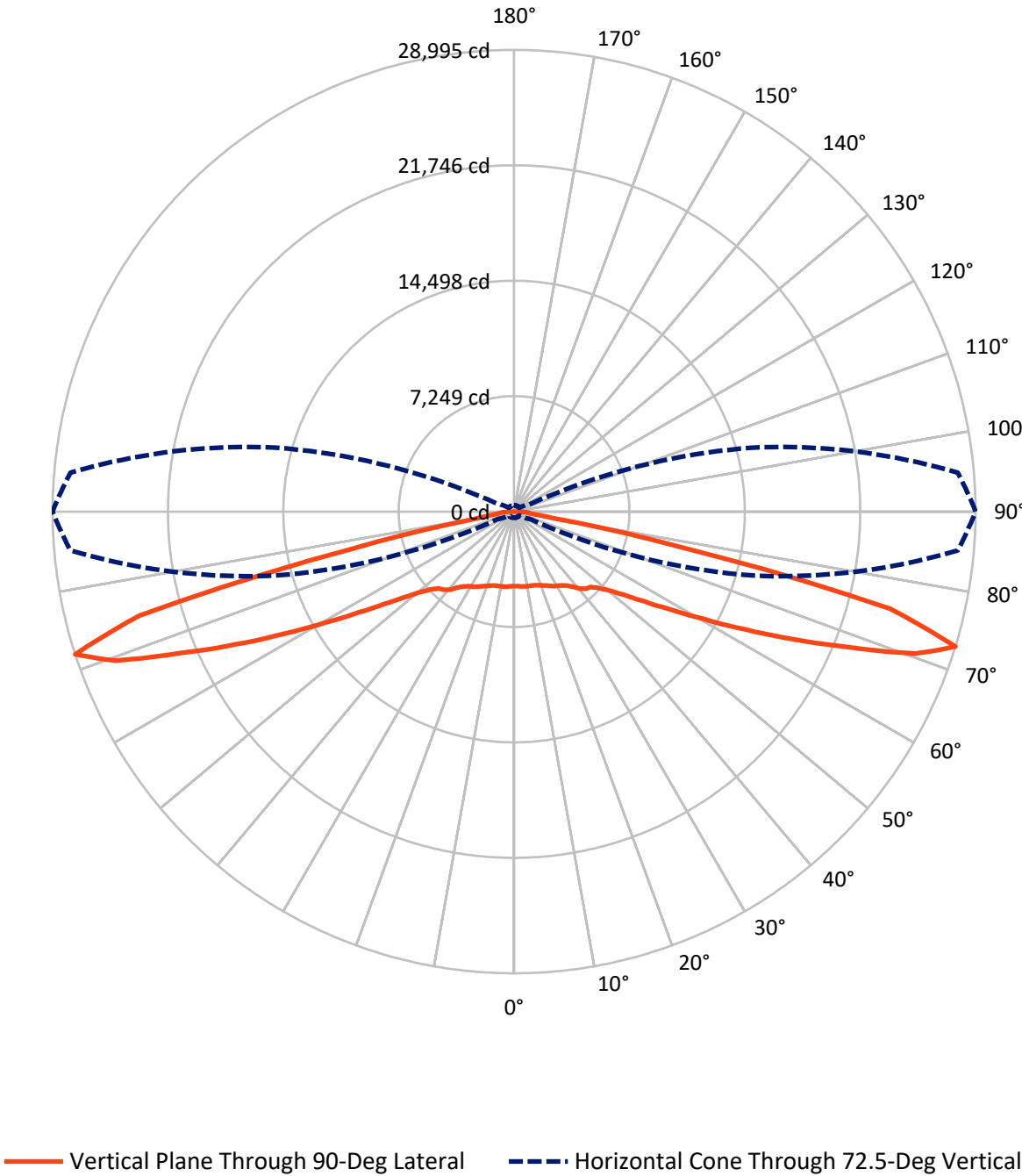
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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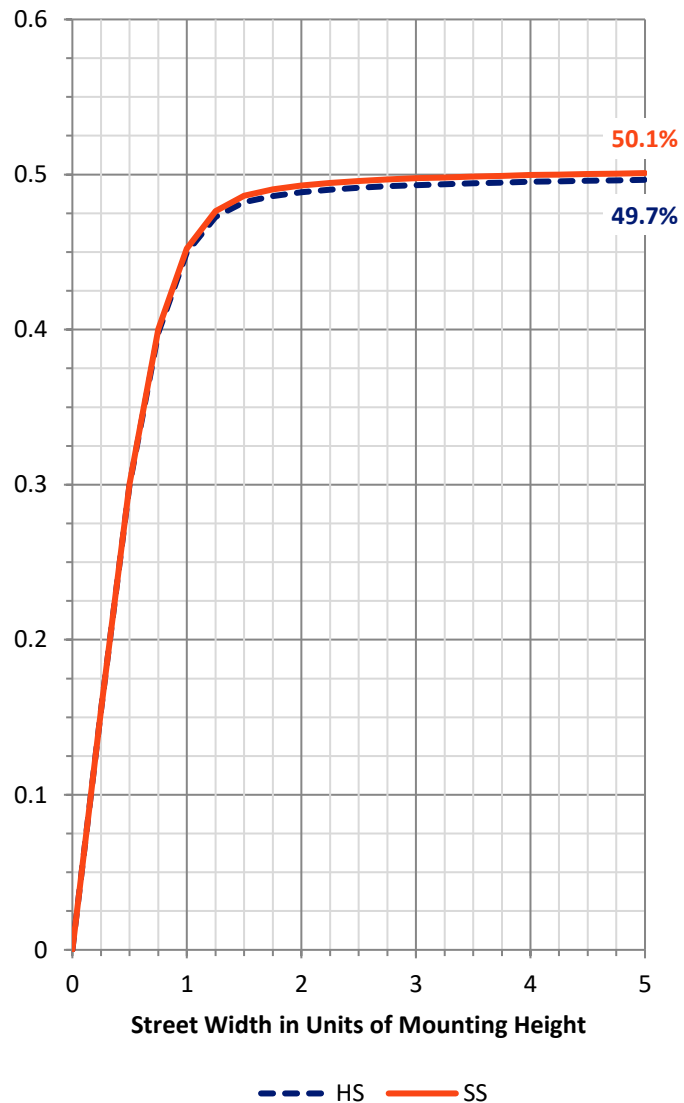
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12540.4	0.0	12540.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12540.4	0.0	12540.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	25080.7	0.0	25080.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.4	1.8
10°-20°	1389.4	5.5
20°-30°	2316.8	9.2
30°-40°	3186.3	12.7
40°-50°	3891.3	15.5
50°-60°	4500.7	17.9
60°-70°	5366.4	21.4
70°-80°	3745.4	14.9
80°-90°	230.0	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°	25080.7	100.0
0°-180°	25080.7	100.0

Coefficient of Utilization



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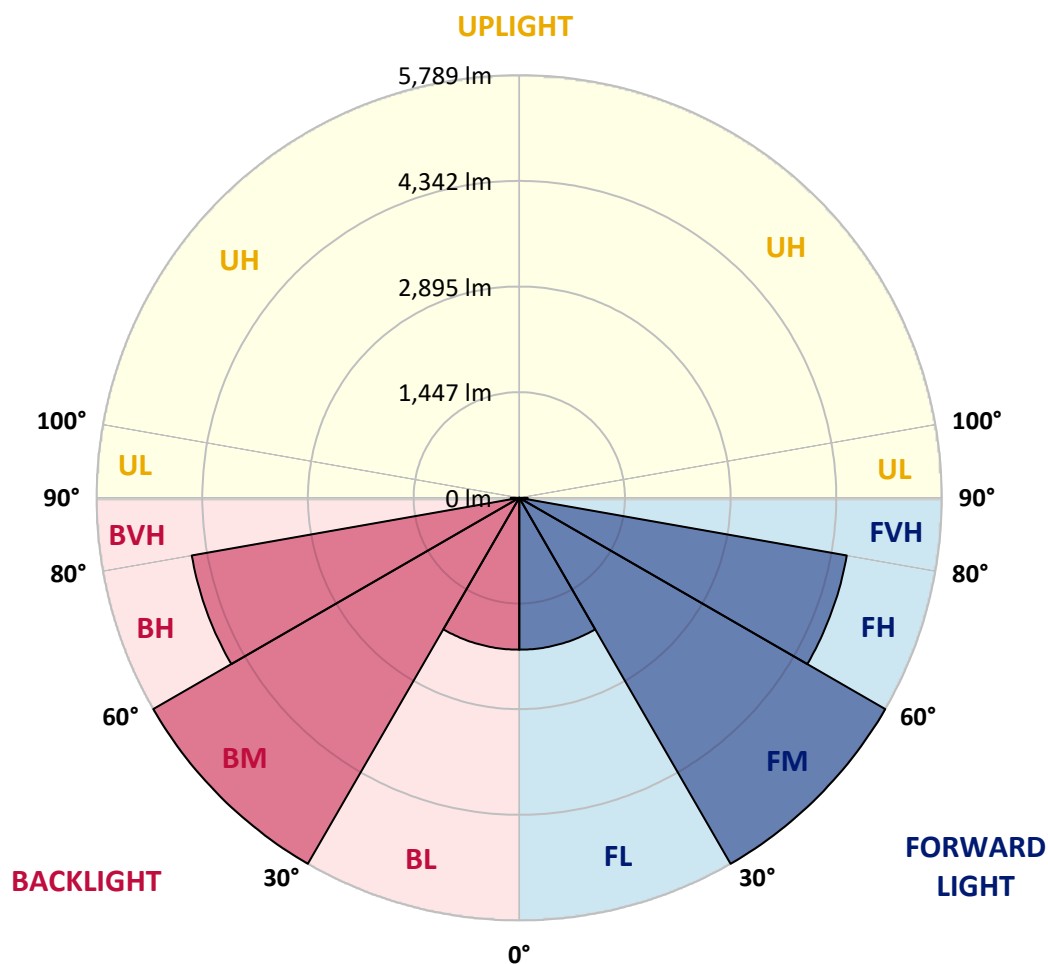
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2080.3	8.3			
FM	(30°-60°)	5789.2	23.1			
FH	(60°-80°)	4555.9	18.2			G2/5000
FVH	(80°-90°)	115.0	0.5			G2/225
BL	(0°-30°)	2080.3	8.3	B3/2500		
BM	(30°-60°)	5789.2	23.1	B4/8500		
BH	(60°-80°)	4555.9	18.2	B4/5000		G4/5000
BVH	(80°-90°)	115.0	0.5			G2/225
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°	4686.6	4686.6	4686.6	4686.6	4686.6	4686.6	4686.6	4686.6	4686.6	4686.6	4686.6
2.5°	4690.6	4695.9	4695.9	4691.9	4701.3	4693.3	4693.3	4689.3	4693.3	4689.3	4689.3
5°	4714.6	4721.3	4723.9	4722.6	4734.6	4727.9	4727.9	4722.6	4723.9	4719.9	4719.9
7.5°	4759.9	4769.2	4774.6	4781.2	4798.5	4790.5	4785.2	4769.2	4762.6	4751.9	4751.9
10°	4774.6	4785.2	4802.5	4837.2	4877.3	4878.6	4862.5	4822.5	4791.9	4767.9	4763.9
12.5°	4729.2	4743.9	4779.9	4850.5	4939.9	4975.9	4950.5	4883.9	4823.9	4781.2	4774.6
15°	4672.0	4687.9	4742.6	4849.2	4981.2	5065.1	5062.5	4974.5	4878.6	4811.9	4801.2
17.5°	4582.7	4598.7	4677.3	4826.5	5013.2	5151.8	5189.2	5098.5	4963.9	4874.6	4859.8
20°	4421.3	4436.0	4545.3	4754.6	5023.8	5243.8	5341.1	5261.1	5093.1	4971.9	4949.2
22.5°	4212.0	4234.7	4362.7	4630.6	4998.5	5339.7	5514.4	5459.7	5243.8	5075.8	5045.2
25°	3988.2	4012.2	4161.4	4478.6	4933.2	5409.0	5719.6	5685.0	5414.4	5205.2	5162.4
27.5°	3794.9	3820.2	3982.8	4328.1	4831.8	5435.7	5922.2	5939.6	5621.0	5347.7	5302.4
30°	3643.0	3666.9	3840.2	4206.7	4701.3	5409.0	6099.5	6219.5	5831.6	5471.7	5406.4
32.5°	3476.3	3506.9	3689.6	4058.8	4546.6	5345.1	6254.1	6522.1	6075.5	5605.0	5522.4
35°	3265.6	3293.6	3485.6	3856.2	4344.1	5242.5	6383.4	6858.0	6424.7	5807.5	5715.6
37.5°	3009.8	3036.5	3227.0	3602.9	4142.7	5098.5	6482.1	7236.5	6840.6	6099.5	5976.9
40°	2752.5	2777.9	2956.4	3320.4	3901.5	4914.6	6516.7	7607.0	7317.8	6500.8	6370.1
42.5°	2516.6	2539.2	2703.2	3041.8	3631.0	4679.9	6471.4	7929.6	7745.7	6780.7	6612.7
45°	2299.3	2319.3	2464.6	2780.5	3349.7	4394.7	6335.4	8276.2	8254.8	6980.6	6753.9
47.5°	2051.4	2071.4	2222.0	2527.2	3068.4	4060.1	6104.8	8617.4	8962.7	7433.8	7172.5
50°	1748.9	1766.2	1920.7	2235.3	2776.5	3704.2	5784.9	8885.3	9855.7	8120.3	7792.4
52.5°	1390.2	1408.9	1559.5	1874.1	2430.0	3321.7	5363.7	9060.0	10887.4	9122.6	8718.8
55°	1034.3	1047.7	1178.3	1460.9	2000.7	2885.8	4835.8	9109.3	12057.7	10492.8	9987.7
57.5°	750.4	758.4	842.4	1053.0	1516.9	2340.6	4194.7	8981.4	13450.7	12249.7	11613.9
60°	607.8	610.5	635.8	729.1	1054.3	1724.8	3420.3	8541.4	14962.2	14514.3	13713.3
62.5°	551.9	551.9	558.5	583.8	713.1	1138.4	2483.3	7629.7	16583.1	17376.1	16303.1
65°	513.2	513.2	515.9	527.9	562.5	725.1	1567.5	6144.9	17949.3	20728.5	19371.6
67.5°	478.6	479.9	478.6	482.6	502.6	535.9	909.1	4244.1	18685.0	24202.1	22737.2
70°	442.5	445.2	438.5	438.5	454.5	455.8	569.2	2327.3	18074.6	27113.2	26728.0
72.5°	399.9	403.8	393.2	390.5	402.5	397.2	427.8	1117.0	15518.0	27982.3	28995.3
75°	362.5	367.9	343.9	337.2	337.2	333.2	347.9	573.2	10071.6	22826.5	24415.4
77.5°	329.2	339.9	301.2	279.9	274.6	262.6	283.9	350.5	4405.3	10716.8	10494.2
80°	271.9	286.6	247.9	222.6	213.3	200.0	224.0	245.3	1310.3	2488.6	2383.3
82.5°	202.6	209.3	176.0	158.7	150.6	141.2	168.0	170.7	426.5	881.1	995.7
85°	129.3	131.9	107.9	93.3	89.3	85.3	106.6	93.3	162.7	647.8	941.1
87.5°	45.3	52.0	41.3	37.3	40.0	33.3	49.3	28.0	45.3	457.2	566.5
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)