

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: P967852

Luminaire Tested: **NAV-SB5A-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967852
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-SB5A-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19979.3 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

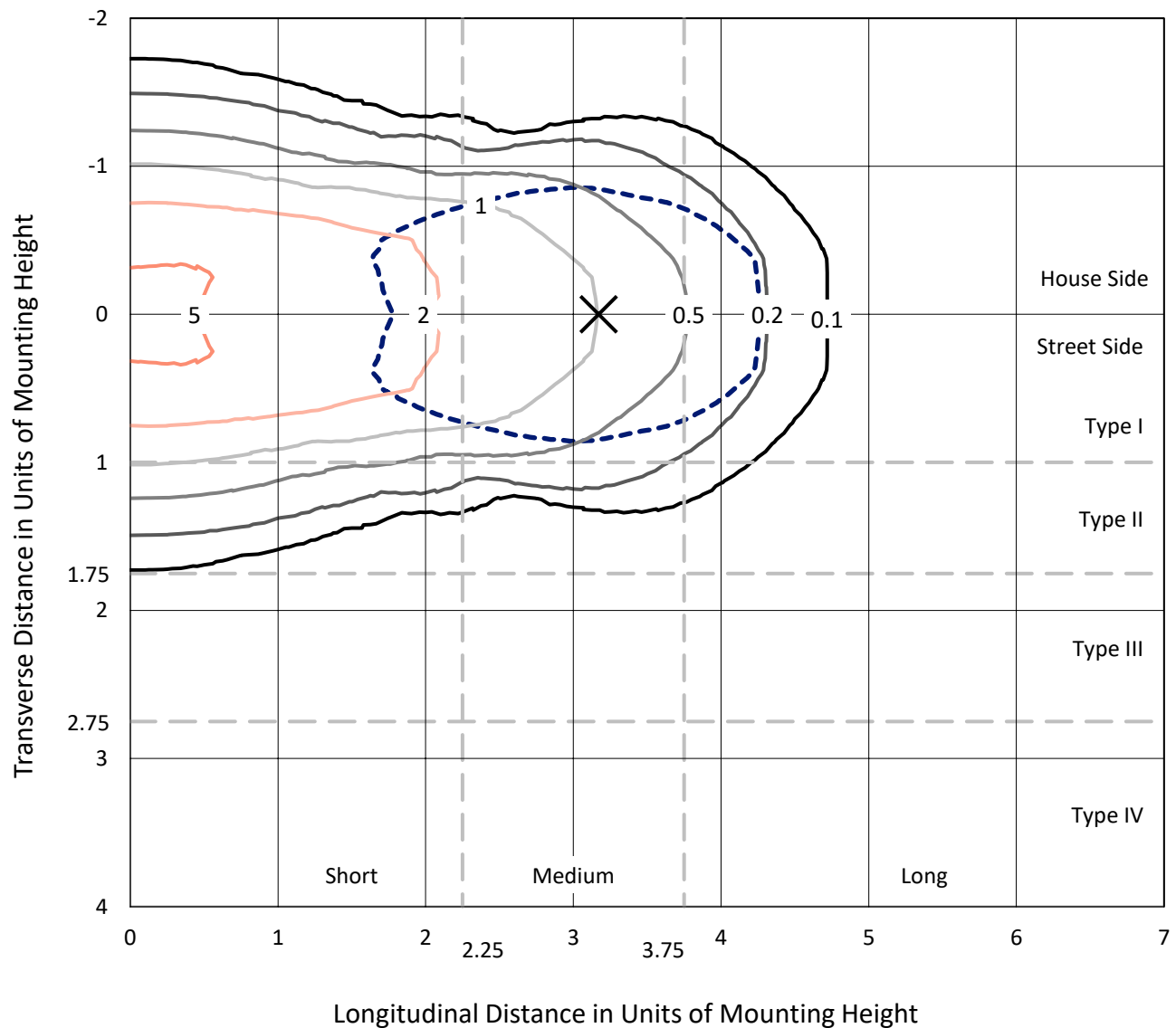
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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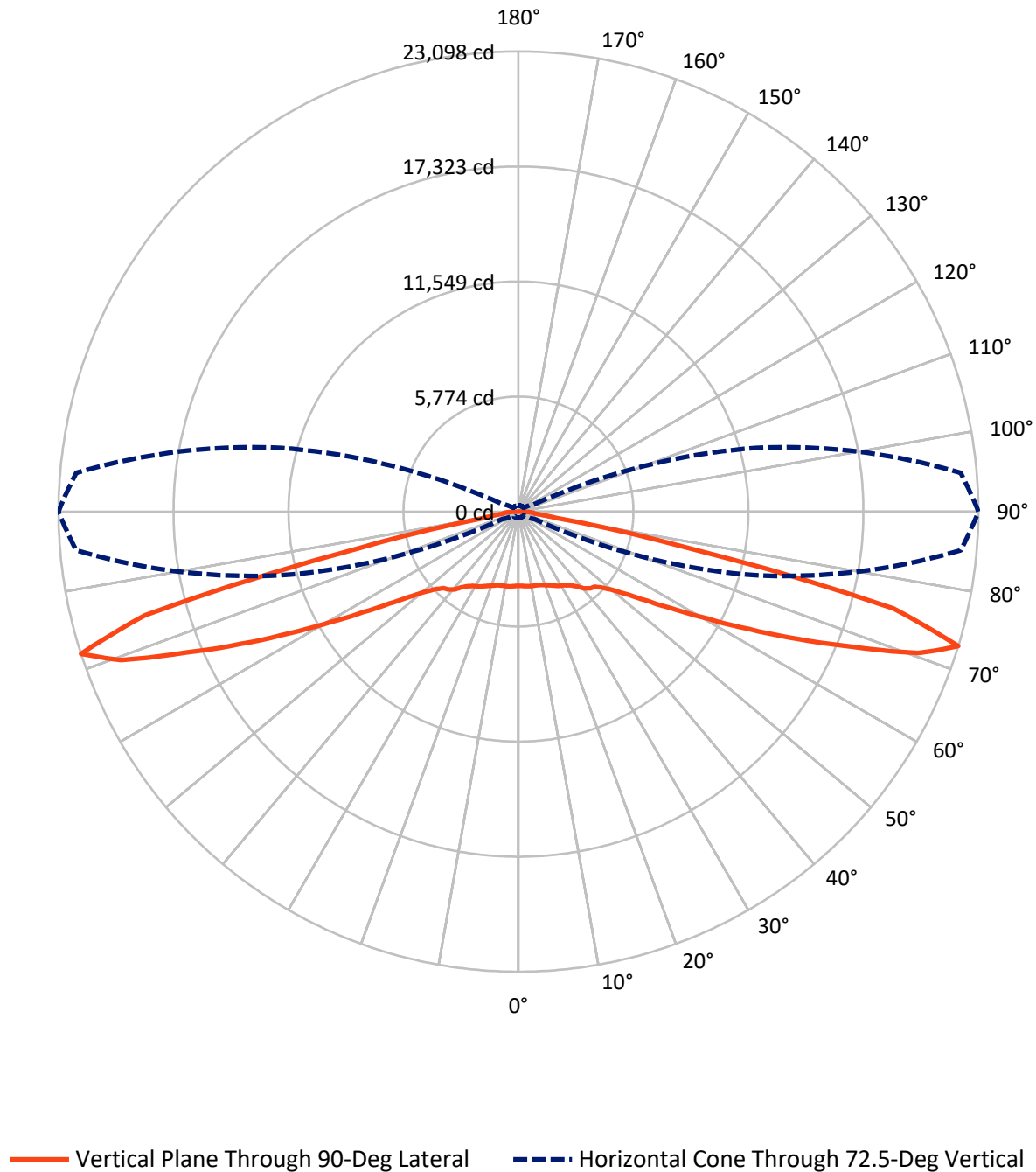
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



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Luminous Intensity Polar Plot



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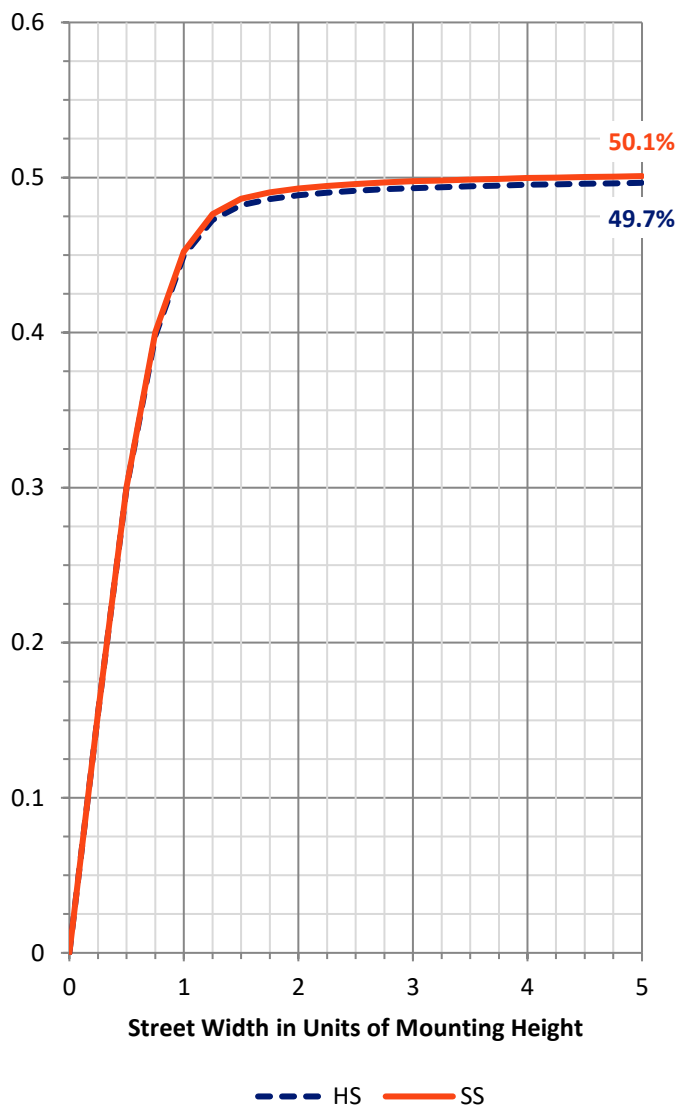
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9989.6	0.0	9989.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9989.6	0.0	9989.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	19979.3	0.0	19979.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.0	1.8
10°-20°	1106.8	5.5
20°-30°	1845.5	9.2
30°-40°	2538.2	12.7
40°-50°	3099.8	15.5
50°-60°	3585.3	17.9
60°-70°	4274.8	21.4
70°-80°	2983.6	14.9
80°-90°	183.3	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°	19979.3	100.0
0°-180°	19979.3	100.0

Coefficient of Utilization



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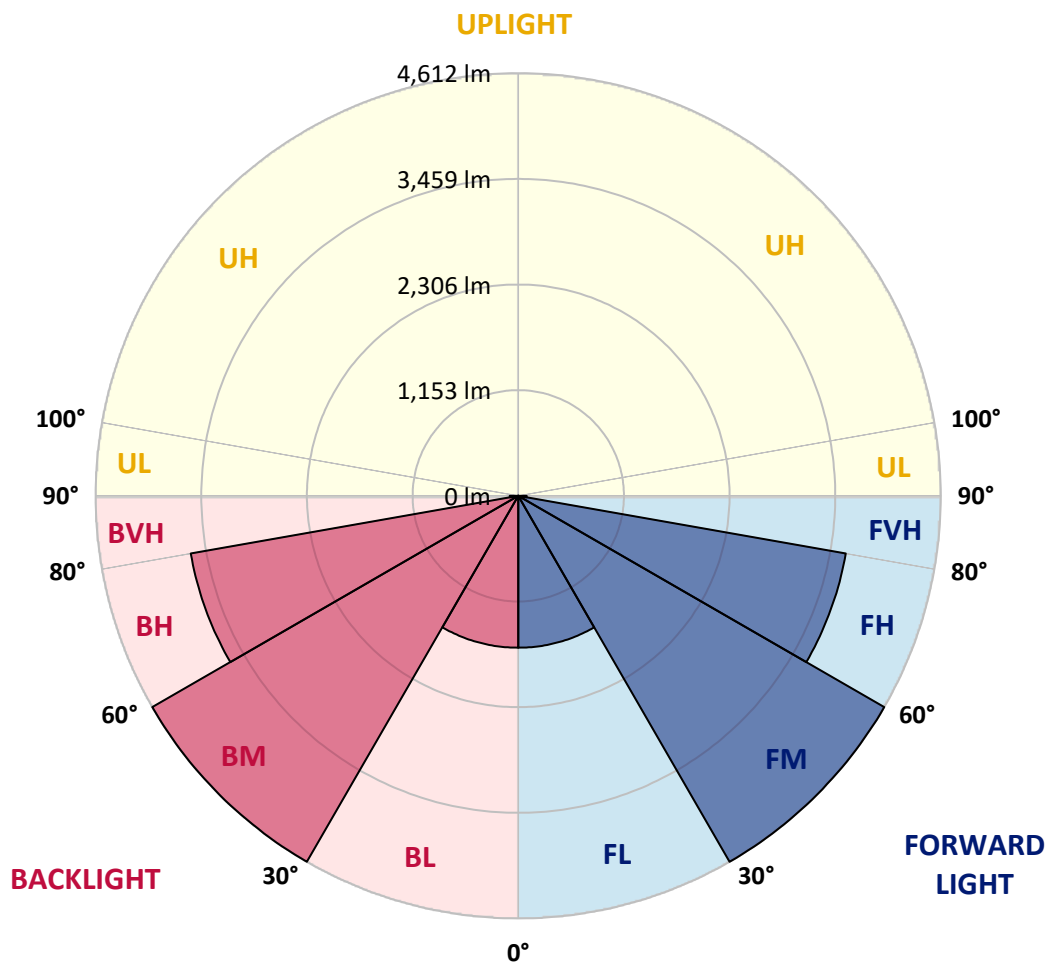
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1657.2	8.3			
FM	(30°-60°)	4611.6	23.1			
FH	(60°-80°)	3629.2	18.2			G2/5000
FVH	(80°-90°)	91.6	0.5			G1/100
BL	(0°-30°)	1657.2	8.3	B3/2500		
BM	(30°-60°)	4611.6	23.1	B3/5000		
BH	(60°-80°)	3629.2	18.2	B4/5000		G4/5000
BVH	(80°-90°)	91.6	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°	3733.4	3733.4	3733.4	3733.4	3733.4	3733.4	3733.4	3733.4	3733.4	3733.4	3733.4
2.5°	3736.5	3740.7	3740.7	3737.6	3745.0	3738.7	3738.7	3735.5	3738.7	3735.5	3735.5
5°	3755.6	3760.9	3763.1	3762.1	3771.6	3766.3	3766.3	3762.1	3763.1	3759.9	3759.9
7.5°	3791.8	3799.2	3803.5	3808.7	3822.5	3816.2	3811.9	3799.2	3793.8	3785.3	3785.3
10°	3803.5	3811.9	3825.7	3853.3	3885.2	3886.3	3873.5	3841.6	3817.2	3798.1	3795.0
12.5°	3767.3	3779.0	3807.7	3863.9	3935.1	3963.8	3943.6	3890.5	3842.7	3808.7	3803.5
15°	3721.7	3734.4	3777.9	3862.9	3968.0	4034.9	4032.8	3962.6	3886.3	3833.2	3824.7
17.5°	3650.5	3663.2	3725.9	3844.9	3993.5	4103.9	4133.6	4061.5	3954.2	3883.1	3871.4
20°	3522.0	3533.7	3620.8	3787.5	4002.0	4177.2	4254.7	4191.0	4057.2	3960.6	3942.6
22.5°	3355.3	3373.4	3475.4	3688.8	3981.8	4253.6	4392.7	4349.2	4177.2	4043.4	4018.9
25°	3177.0	3196.1	3315.0	3567.7	3929.7	4308.9	4556.2	4528.7	4313.1	4146.4	4112.4
27.5°	3023.0	3043.1	3172.7	3447.7	3849.1	4330.1	4717.7	4731.4	4477.7	4260.0	4223.9
30°	2902.0	2921.0	3059.1	3351.1	3745.0	4308.9	4858.9	4954.4	4645.4	4358.7	4306.7
32.5°	2769.2	2793.6	2939.1	3233.3	3621.8	4257.8	4982.0	5195.4	4839.7	4464.9	4399.1
35°	2601.4	2623.8	2776.6	3071.8	3460.5	4176.2	5085.0	5463.0	5117.9	4626.3	4553.0
37.5°	2397.6	2418.8	2570.7	2870.1	3300.1	4061.5	5163.6	5764.6	5449.2	4858.9	4761.2
40°	2192.7	2212.9	2355.1	2645.0	3107.9	3914.9	5191.2	6059.8	5829.4	5178.5	5074.4
42.5°	2004.7	2022.7	2153.3	2423.1	2892.3	3728.0	5155.1	6316.8	6170.2	5401.4	5267.7
45°	1831.7	1847.6	1963.3	2214.9	2668.4	3500.8	5046.8	6592.8	6575.8	5560.7	5380.2
47.5°	1634.2	1650.0	1770.1	2013.2	2444.3	3234.3	4863.1	6864.6	7139.6	5921.7	5713.7
50°	1393.1	1406.9	1530.1	1780.6	2211.7	2950.8	4608.3	7078.0	7851.1	6468.6	6207.4
52.5°	1107.5	1122.4	1242.3	1492.9	1935.7	2646.0	4272.7	7217.1	8672.9	7267.0	6945.3
55°	824.0	834.6	938.7	1163.8	1593.8	2298.9	3852.3	7256.5	9605.2	8358.6	7956.2
57.5°	597.8	604.1	671.1	838.9	1208.4	1864.6	3341.5	7154.5	10714.7	9758.1	9251.5
60°	484.2	486.4	506.5	580.8	839.9	1374.0	2724.7	6804.2	11918.9	11562.1	10923.9
62.5°	439.6	439.6	444.8	465.0	568.1	906.8	1978.1	6077.8	13210.0	13841.8	12987.1
65°	408.8	408.8	410.9	420.5	448.1	577.6	1248.7	4895.0	14298.4	16512.3	15431.4
67.5°	381.2	382.2	381.2	384.4	400.3	426.8	724.2	3380.9	14884.5	19279.4	18112.5
70°	352.5	354.6	349.3	349.3	362.0	363.2	453.4	1853.9	14398.2	21598.4	21291.5
72.5°	318.6	321.7	313.2	311.1	320.6	316.4	340.8	889.8	12361.7	22290.7	23097.7
75°	288.8	293.0	274.0	268.7	268.7	265.5	277.2	456.5	8023.1	18183.6	19449.3
77.5°	262.3	270.8	240.0	222.9	218.7	209.2	226.2	279.2	3509.3	8537.0	8359.7
80°	216.6	228.3	197.5	177.3	169.8	159.3	178.4	195.4	1043.8	1982.5	1898.5
82.5°	161.4	166.7	140.1	126.4	120.0	112.5	133.8	135.9	339.8	701.8	793.1
85°	103.0	105.2	86.0	74.3	71.1	68.0	85.0	74.3	129.6	516.1	749.7
87.5°	36.1	41.4	32.9	29.7	31.9	26.5	39.3	22.3	36.1	364.2	451.3
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)