

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: P969836

Luminaire Tested: **NAV-SB6A-735-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969836
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-SB6A-735-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27582.7 lumens
Efficiency: N/A
Efficacy: 161.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

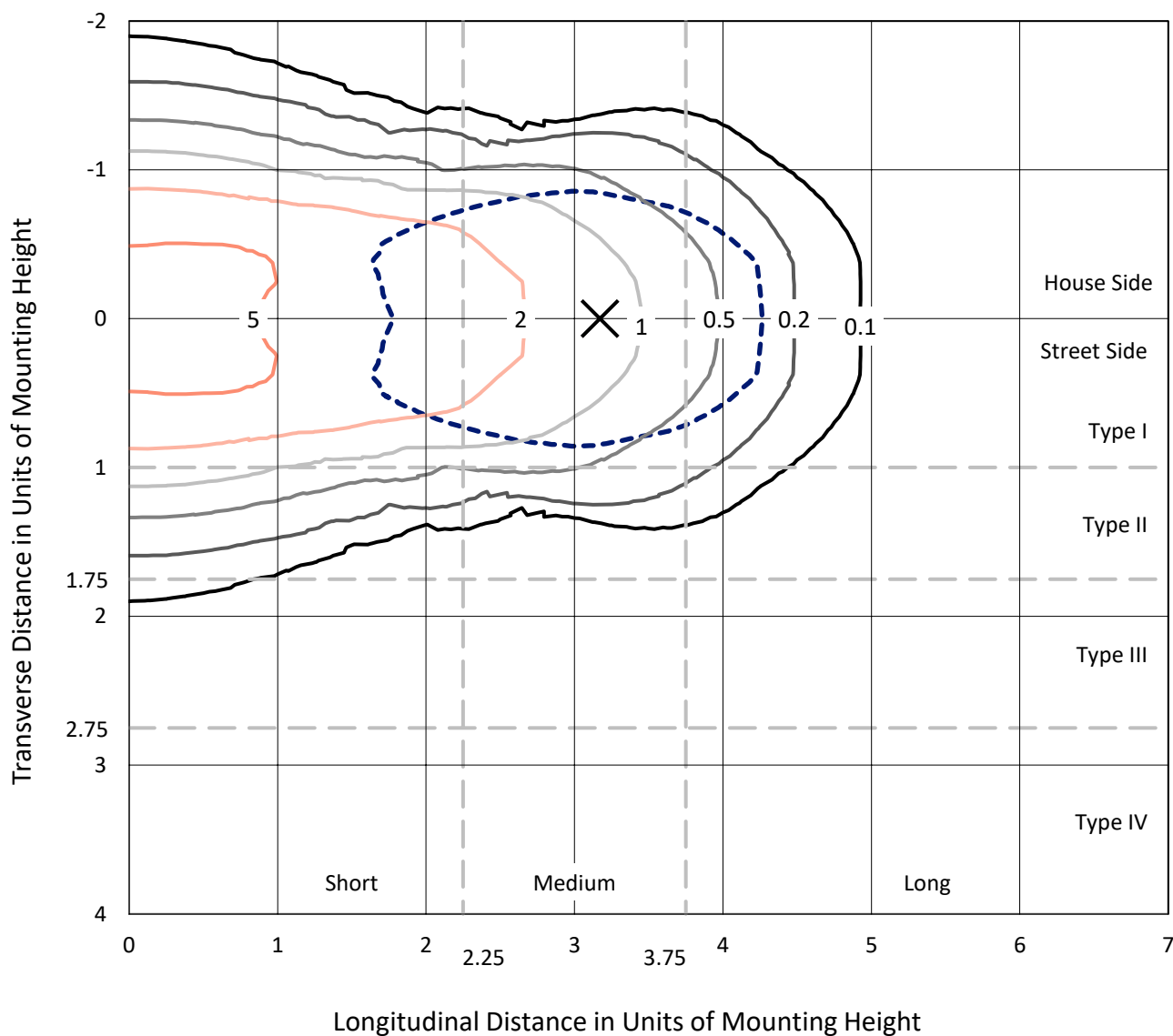
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

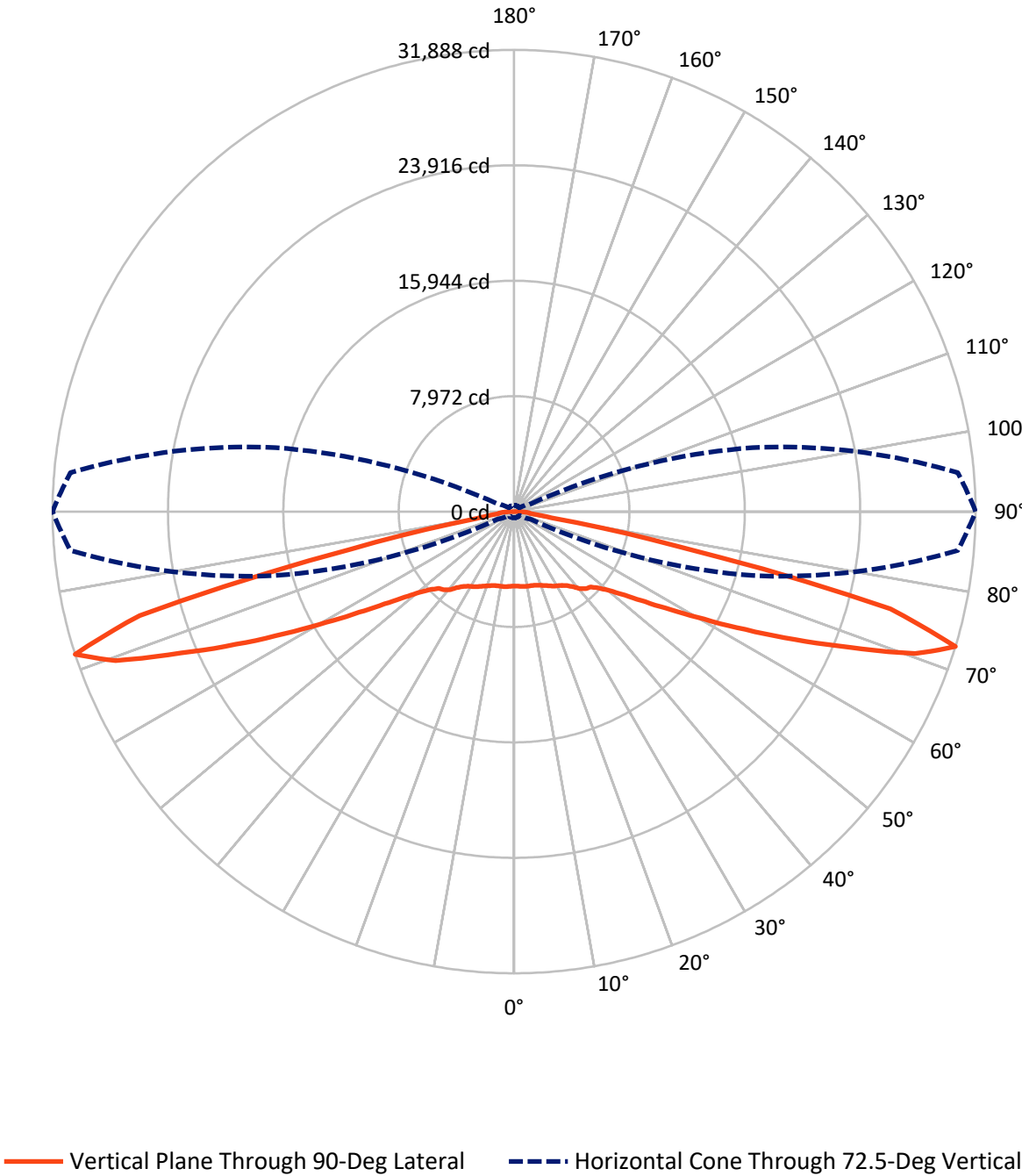
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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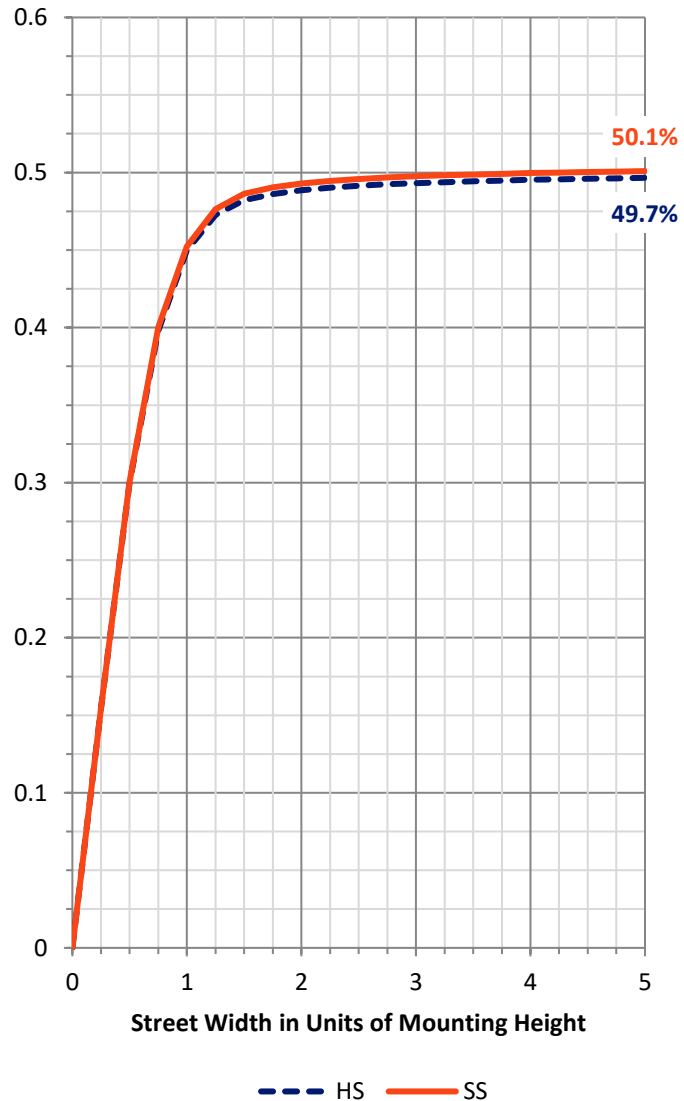
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13791.4	0.0	13791.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13791.4	0.0	13791.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	27582.7	0.0	27582.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.8	1.8
10°-20°	1528.1	5.5
20°-30°	2547.9	9.2
30°-40°	3504.1	12.7
40°-50°	4279.5	15.5
50°-60°	4949.7	17.9
60°-70°	5901.7	21.4
70°-80°	4119.0	14.9
80°-90°	253.0	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°	27582.7	100.0
0°-180°	27582.7	100.0

Coefficient of Utilization



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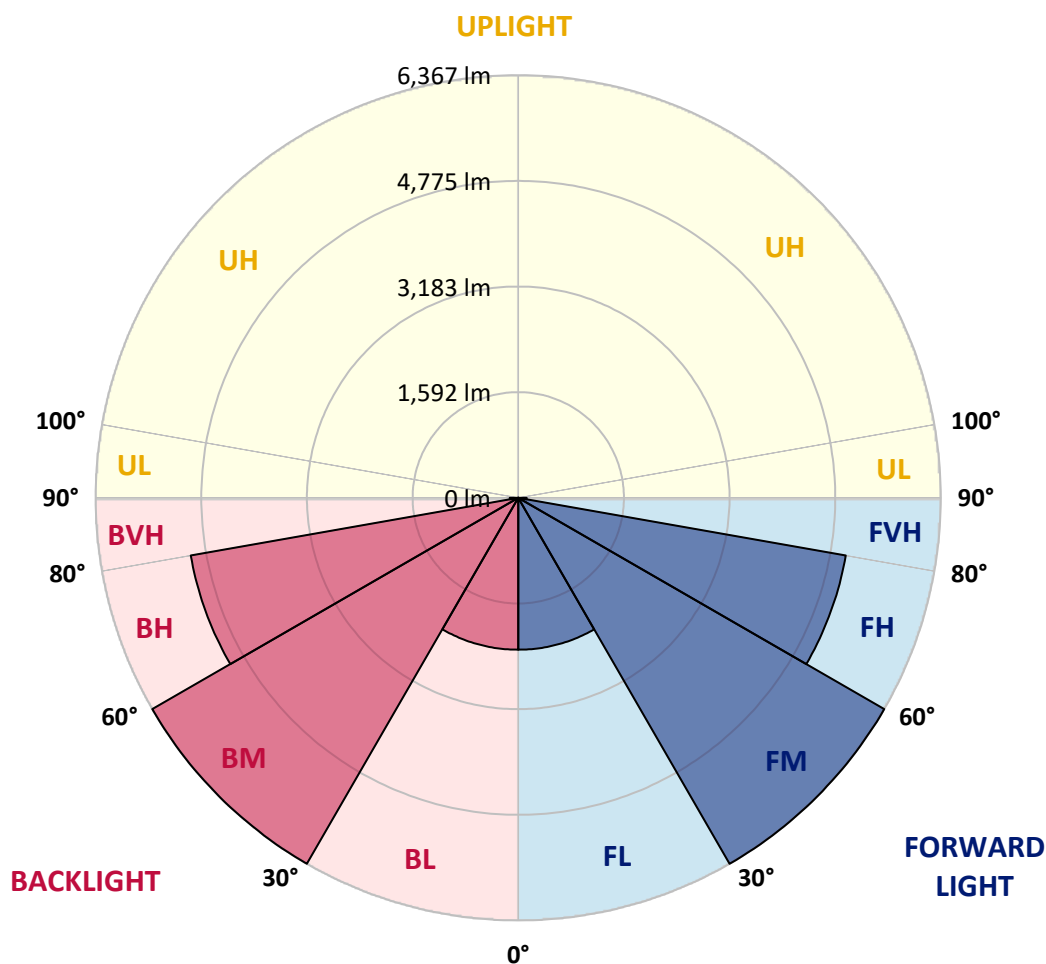
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2287.8	8.3			
FM	(30°-60°)	6366.7	23.1			
FH	(60°-80°)	5010.4	18.2			G3/7500
FVH	(80°-90°)	126.5	0.5			G2/225
BL	(0°-30°)	2287.8	8.3	B3/2500		
BM	(30°-60°)	6366.7	23.1	B4/8500		
BH	(60°-80°)	5010.4	18.2	B5		G5
BVH	(80°-90°)	126.5	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5154.1	5154.1	5154.1	5154.1	5154.1	5154.1	5154.1	5154.1	5154.1	5154.1	5154.1
2.5°	5158.5	5164.4	5164.4	5160.0	5170.2	5161.5	5161.5	5157.1	5161.5	5157.1	5157.1
5°	5185.0	5192.2	5195.2	5193.7	5206.9	5199.6	5199.6	5193.7	5195.2	5190.8	5190.8
7.5°	5234.8	5245.0	5250.9	5258.2	5277.3	5268.5	5262.6	5245.0	5237.6	5226.0	5226.0
10°	5250.9	5262.6	5281.6	5319.7	5363.7	5365.3	5347.6	5303.7	5269.9	5243.6	5239.2
12.5°	5201.1	5217.1	5256.7	5334.4	5432.6	5472.3	5444.4	5371.1	5305.1	5258.2	5250.9
15°	5138.0	5155.5	5215.7	5333.0	5478.1	5570.5	5567.5	5470.7	5365.3	5292.0	5280.2
17.5°	5039.8	5057.3	5143.9	5308.1	5513.3	5665.7	5706.8	5607.1	5459.0	5360.9	5344.7
20°	4862.4	4878.5	4998.7	5228.9	5525.0	5766.9	5873.9	5785.9	5601.2	5467.9	5443.0
22.5°	4632.3	4657.2	4797.9	5092.6	5497.2	5872.4	6064.4	6004.3	5766.9	5582.2	5548.4
25°	4386.0	4412.4	4576.5	4925.4	5425.3	5948.7	6290.2	6252.1	5954.5	5724.3	5677.5
27.5°	4173.4	4201.3	4380.1	4759.8	5313.9	5978.0	6513.1	6532.1	6181.8	5881.2	5831.3
30°	4006.3	4032.8	4223.3	4626.4	5170.2	5948.7	6708.0	6839.9	6413.3	6017.6	5945.7
32.5°	3823.0	3856.8	4057.7	4463.7	5000.3	5878.3	6878.1	7172.6	6681.6	6164.1	6073.2
35°	3591.5	3622.2	3833.3	4240.8	4777.4	5765.4	7020.2	7542.1	7065.6	6387.0	6285.8
37.5°	3310.0	3339.3	3549.0	3962.3	4556.0	5607.1	7128.7	7958.4	7523.0	6708.0	6573.1
40°	3027.1	3054.9	3251.4	3651.6	4290.8	5404.8	7166.8	8365.9	8047.8	7149.3	7005.6
42.5°	2767.6	2792.5	2972.9	3345.2	3993.1	5146.8	7117.0	8720.7	8518.4	7457.1	7272.4
45°	2528.7	2550.7	2710.5	3057.9	3683.8	4833.1	6967.4	9101.8	9078.3	7676.9	7427.8
47.5°	2256.0	2278.1	2443.7	2779.4	3374.5	4465.1	6713.9	9477.0	9856.7	8175.4	7888.1
50°	1923.3	1942.4	2112.4	2458.4	3053.5	4073.8	6362.1	9771.7	10839.0	8930.3	8569.7
52.5°	1528.9	1549.5	1715.1	2061.1	2672.4	3653.0	5898.8	9963.7	11973.5	10032.7	9588.5
55°	1137.5	1152.2	1295.9	1606.6	2200.4	3173.7	5318.3	10018.0	13260.6	11539.7	10984.0
57.5°	825.3	834.1	926.5	1158.0	1668.2	2574.1	4613.2	9877.3	14792.5	13471.7	12772.4
60°	668.4	671.4	699.3	801.9	1159.6	1896.9	3761.5	9393.5	16454.8	15962.2	15081.2
62.5°	606.9	606.9	614.2	642.1	784.2	1251.9	2731.0	8390.9	18237.3	19109.6	17929.5
65°	564.4	564.4	567.3	580.5	618.6	797.4	1723.9	6757.8	19739.9	22796.3	21304.0
67.5°	526.2	527.8	526.2	530.6	552.7	589.3	999.8	4667.4	20549.1	26616.5	25005.4
70°	486.7	489.6	482.3	482.3	499.9	501.3	626.0	2559.4	19877.7	29818.0	29394.3
72.5°	439.7	444.1	432.4	429.5	442.7	436.9	470.6	1228.5	17066.0	30773.8	31887.9
75°	398.7	404.6	378.2	370.8	370.8	366.4	382.6	630.4	11076.4	25103.7	26851.0
77.5°	362.0	373.8	331.3	307.8	302.0	288.7	312.2	385.5	4844.9	11785.9	11541.1
80°	299.1	315.2	272.6	244.8	234.5	219.9	246.3	269.7	1440.9	2736.9	2621.0
82.5°	222.8	230.1	193.5	174.5	165.6	155.4	184.7	187.7	469.0	968.9	1095.0
85°	142.2	145.1	118.7	102.6	98.2	93.8	117.3	102.6	178.9	712.5	1034.9
87.5°	49.8	57.2	45.4	41.0	44.0	36.7	54.2	30.7	49.8	502.8	623.0
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)