

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: P966798

Luminaire Tested: **NAV-SB4C-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966798
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-SB4C-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26465.5 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

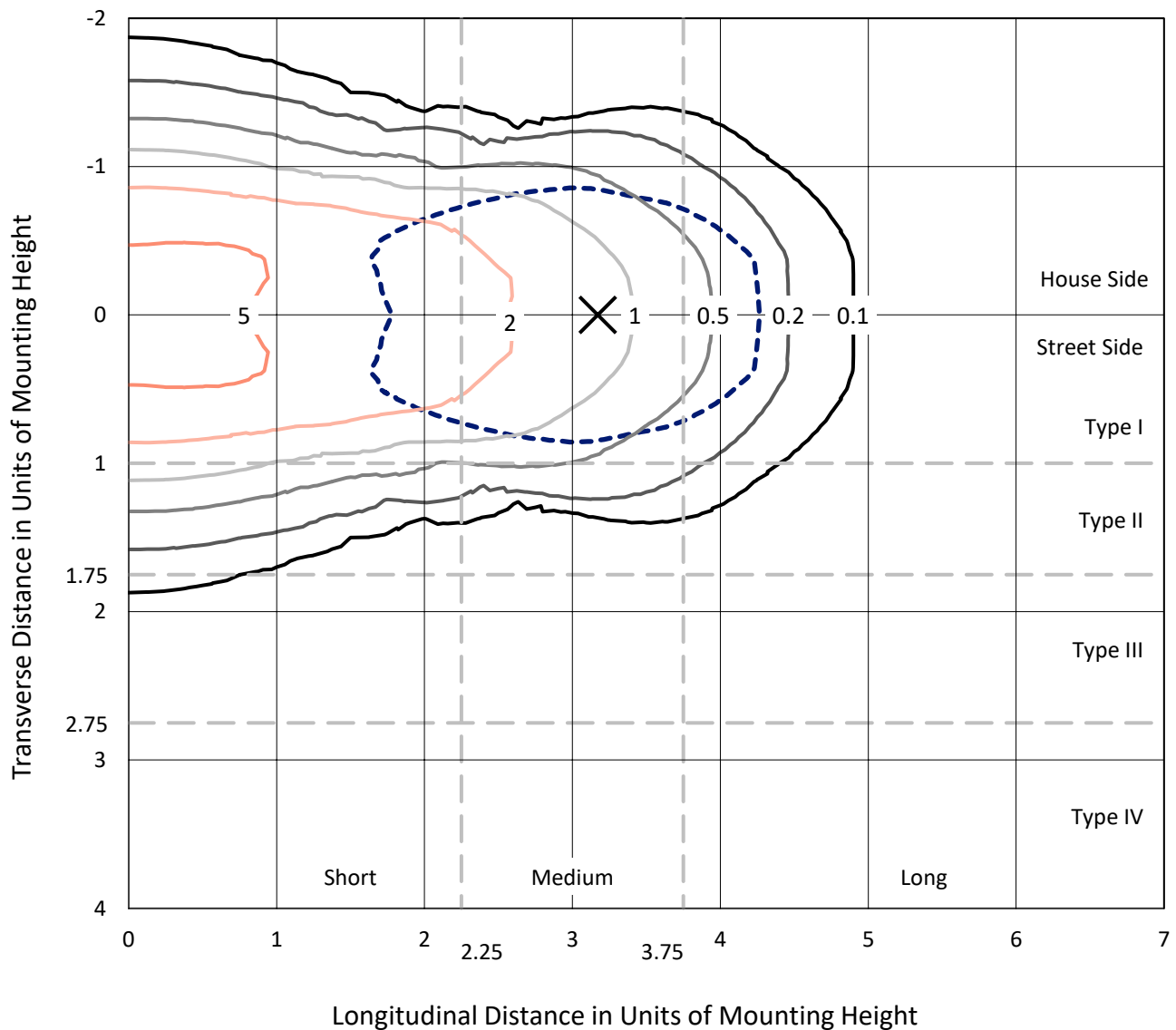
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

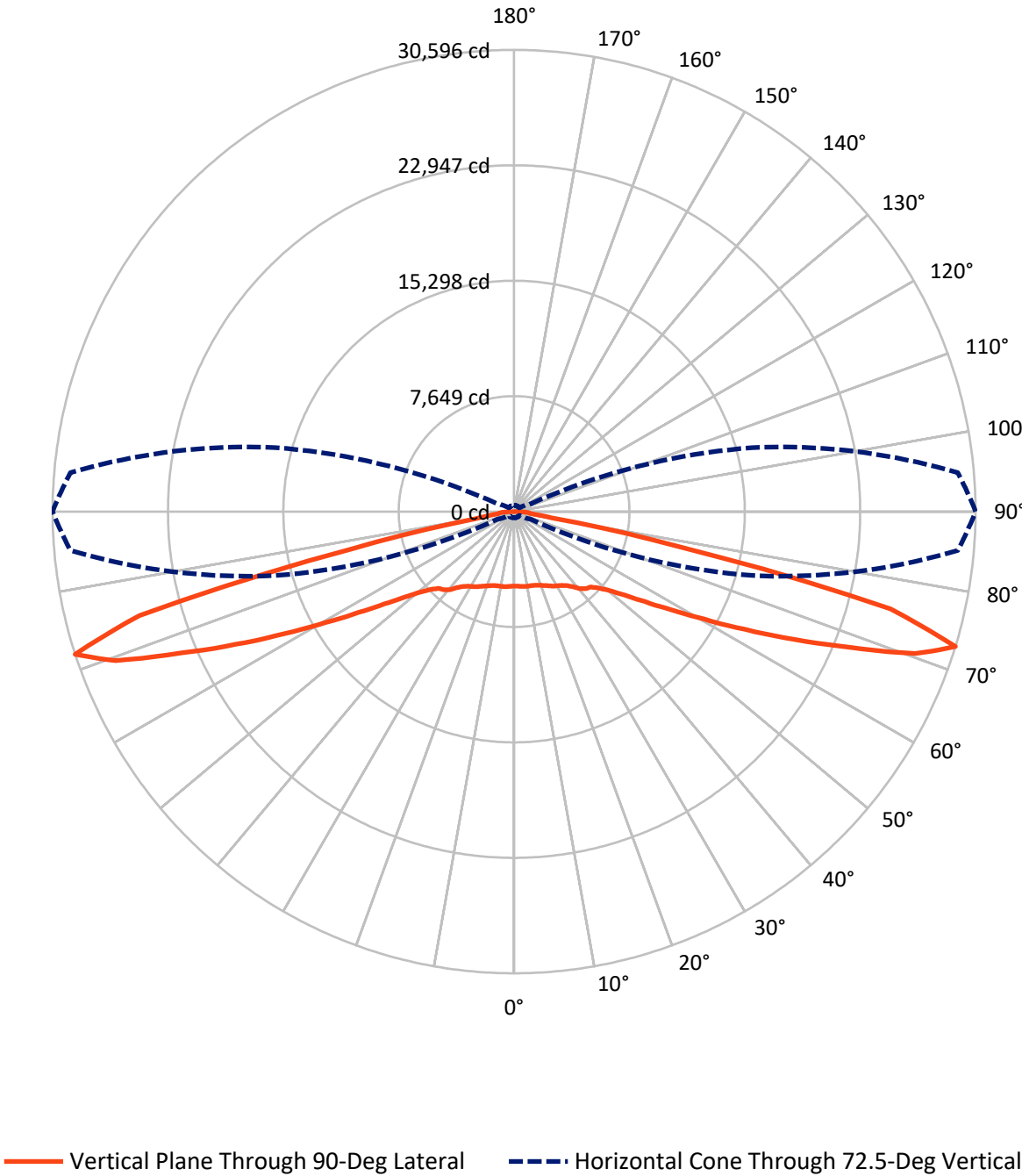
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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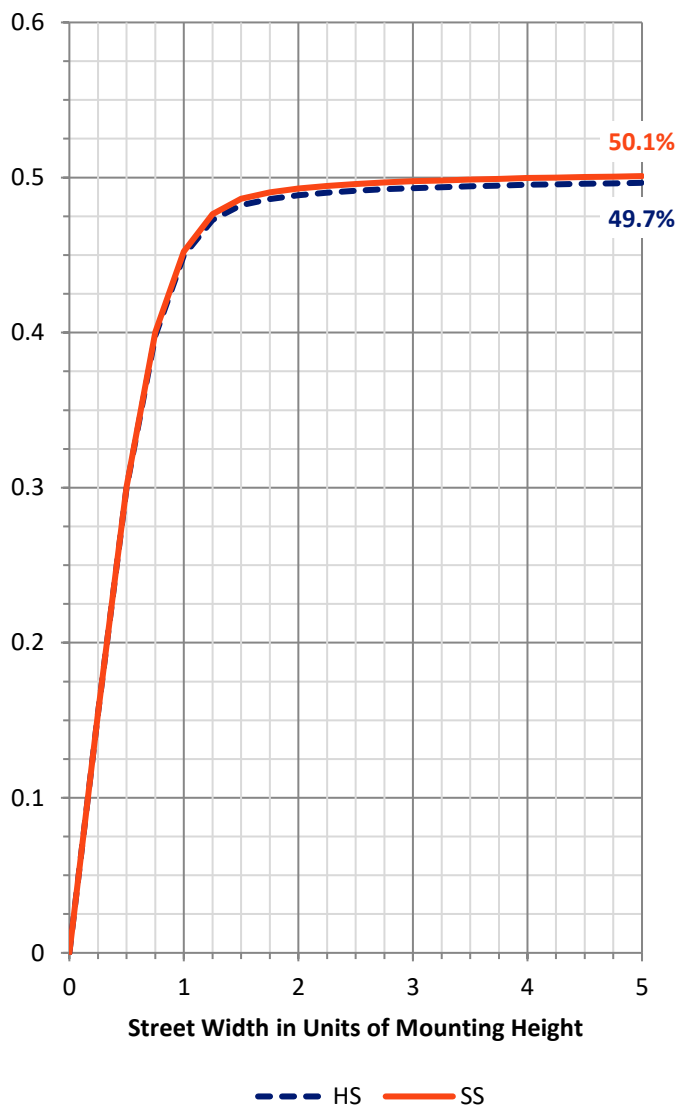
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13232.8	0.0	13232.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13232.8	0.0	13232.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	26465.5	0.0	26465.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.5	1.8
10°-20°	1466.2	5.5
20°-30°	2444.7	9.2
30°-40°	3362.2	12.7
40°-50°	4106.2	15.5
50°-60°	4749.2	17.9
60°-70°	5662.7	21.4
70°-80°	3952.2	14.9
80°-90°	242.8	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°	26465.5	100.0
0°-180°	26465.5	100.0

Coefficient of Utilization



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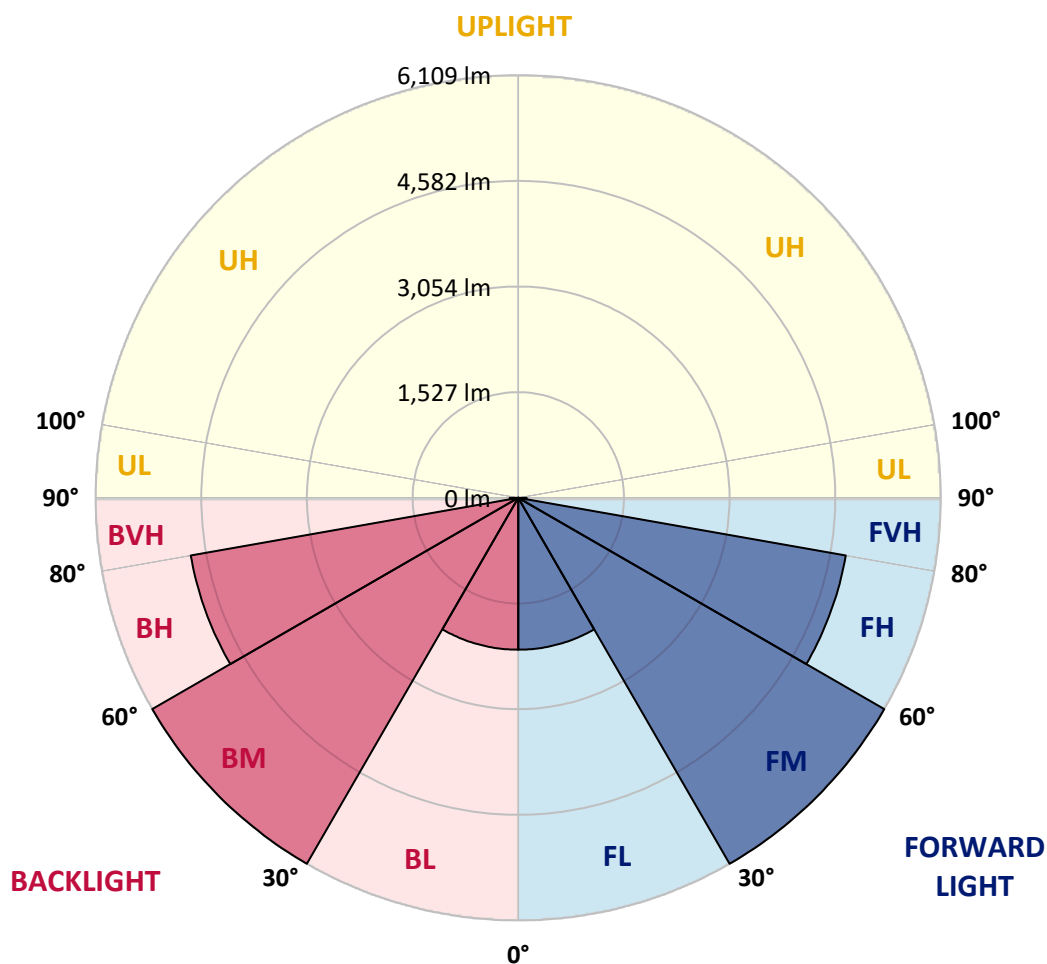
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2195.2	8.3			
FM	(30°-60°)	6108.8	23.1			
FH	(60°-80°)	4807.4	18.2			G2/5000
FVH	(80°-90°)	121.4	0.5			G2/225
BL	(0°-30°)	2195.2	8.3	B3/2500		
BM	(30°-60°)	6108.8	23.1	B4/8500		
BH	(60°-80°)	4807.4	18.2	B4/5000		G4/5000
BVH	(80°-90°)	121.4	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°	4945.3	4945.3	4945.3	4945.3	4945.3	4945.3	4945.3	4945.3	4945.3	4945.3	4945.3
2.5°	4949.6	4955.2	4955.2	4951.0	4960.8	4952.4	4952.4	4948.2	4952.4	4948.2	4948.2
5°	4974.9	4981.9	4984.8	4983.3	4996.0	4989.0	4989.0	4983.3	4984.8	4980.5	4980.5
7.5°	5022.7	5032.5	5038.2	5045.3	5063.5	5055.1	5049.5	5032.5	5025.6	5014.3	5014.3
10°	5038.2	5049.5	5067.7	5104.3	5146.5	5147.9	5131.0	5088.8	5056.4	5031.1	5026.9
12.5°	4990.4	5005.8	5043.8	5118.3	5212.6	5250.6	5223.8	5153.5	5090.3	5045.3	5038.2
15°	4929.8	4946.8	5004.5	5117.0	5256.2	5344.9	5342.0	5249.1	5147.9	5077.5	5066.4
17.5°	4835.6	4852.6	4935.5	5093.0	5289.9	5436.2	5475.7	5380.0	5238.0	5143.7	5128.2
20°	4665.5	4681.0	4796.3	5017.1	5301.2	5533.3	5636.0	5551.6	5374.4	5246.4	5222.5
22.5°	4444.6	4468.6	4603.6	4886.3	5274.4	5634.5	5818.8	5761.1	5533.3	5356.0	5323.7
25°	4208.3	4233.7	4391.2	4726.0	5205.6	5707.7	6035.4	5998.8	5713.3	5492.5	5447.5
27.5°	4004.4	4031.1	4202.7	4567.0	5098.7	5735.8	6249.2	6267.5	5931.4	5643.0	5595.2
30°	3844.1	3869.4	4052.2	4439.0	4960.8	5707.7	6436.3	6562.9	6153.6	5773.8	5704.8
32.5°	3668.3	3700.6	3893.3	4282.9	4797.7	5640.2	6599.5	6882.2	6411.0	5914.5	5827.2
35°	3445.9	3475.6	3678.1	4069.0	4583.9	5531.9	6735.9	7236.6	6779.5	6128.3	6031.2
37.5°	3176.0	3204.0	3405.3	3801.8	4371.5	5380.0	6839.9	7636.0	7218.4	6436.3	6306.9
40°	2904.4	2931.2	3119.7	3503.7	4116.9	5185.9	6876.5	8027.1	7721.8	6859.6	6721.8
42.5°	2655.6	2679.5	2852.5	3209.7	3831.3	4938.3	6828.7	8367.5	8173.4	7155.0	6977.8
45°	2426.3	2447.4	2600.6	2934.1	3534.6	4637.3	6685.3	8733.1	8710.7	7366.0	7126.9
47.5°	2164.7	2185.7	2344.7	2666.7	3237.9	4284.3	6441.9	9093.2	9457.5	7844.2	7568.5
50°	1845.4	1863.7	2026.8	2358.7	2929.8	3908.7	6104.4	9375.9	10399.9	8568.6	8222.6
52.5°	1467.0	1486.7	1645.6	1977.5	2564.1	3505.1	5659.8	9560.2	11488.5	9626.3	9200.1
55°	1091.4	1105.6	1243.3	1541.6	2111.2	3045.2	5102.9	9612.2	12723.4	11072.2	10539.2
57.5°	791.9	800.3	888.9	1111.2	1600.6	2469.8	4426.4	9477.2	14193.3	12926.0	12255.1
60°	641.3	644.2	671.0	769.4	1112.5	1820.1	3609.1	9013.0	15788.3	15315.7	14470.3
62.5°	582.3	582.3	589.4	616.0	752.5	1201.2	2620.4	8051.0	17498.6	18335.5	17203.3
65°	541.5	541.5	544.4	557.0	593.6	765.2	1654.0	6484.2	18940.4	21873.0	20441.1
67.5°	504.9	506.4	504.9	509.1	530.2	565.4	959.3	4478.4	19716.7	25538.4	23992.6
70°	467.0	469.8	462.8	462.8	479.6	481.0	600.5	2455.8	19072.6	28610.2	28203.7
72.5°	422.0	426.2	414.9	412.2	424.8	419.1	451.5	1178.6	16374.8	29527.3	30596.2
75°	382.5	388.2	362.8	355.9	355.9	351.7	367.2	604.9	10627.7	24086.8	25763.4
77.5°	347.4	358.6	317.9	295.4	289.8	277.1	299.6	369.9	4648.6	11308.5	11073.6
80°	286.9	302.4	261.6	234.9	225.1	210.9	236.3	258.8	1382.6	2625.9	2514.8
82.5°	213.8	220.8	185.6	167.4	159.0	149.1	177.2	180.0	450.1	929.7	1050.7
85°	136.4	139.3	114.0	98.5	94.2	90.0	112.5	98.5	171.6	683.6	993.0
87.5°	47.9	54.8	43.6	39.4	42.2	35.2	52.1	29.5	47.9	482.5	597.8
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)