

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: P969418

Luminaire Tested: **NAV-SB5D-827-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5D-827-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48010 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

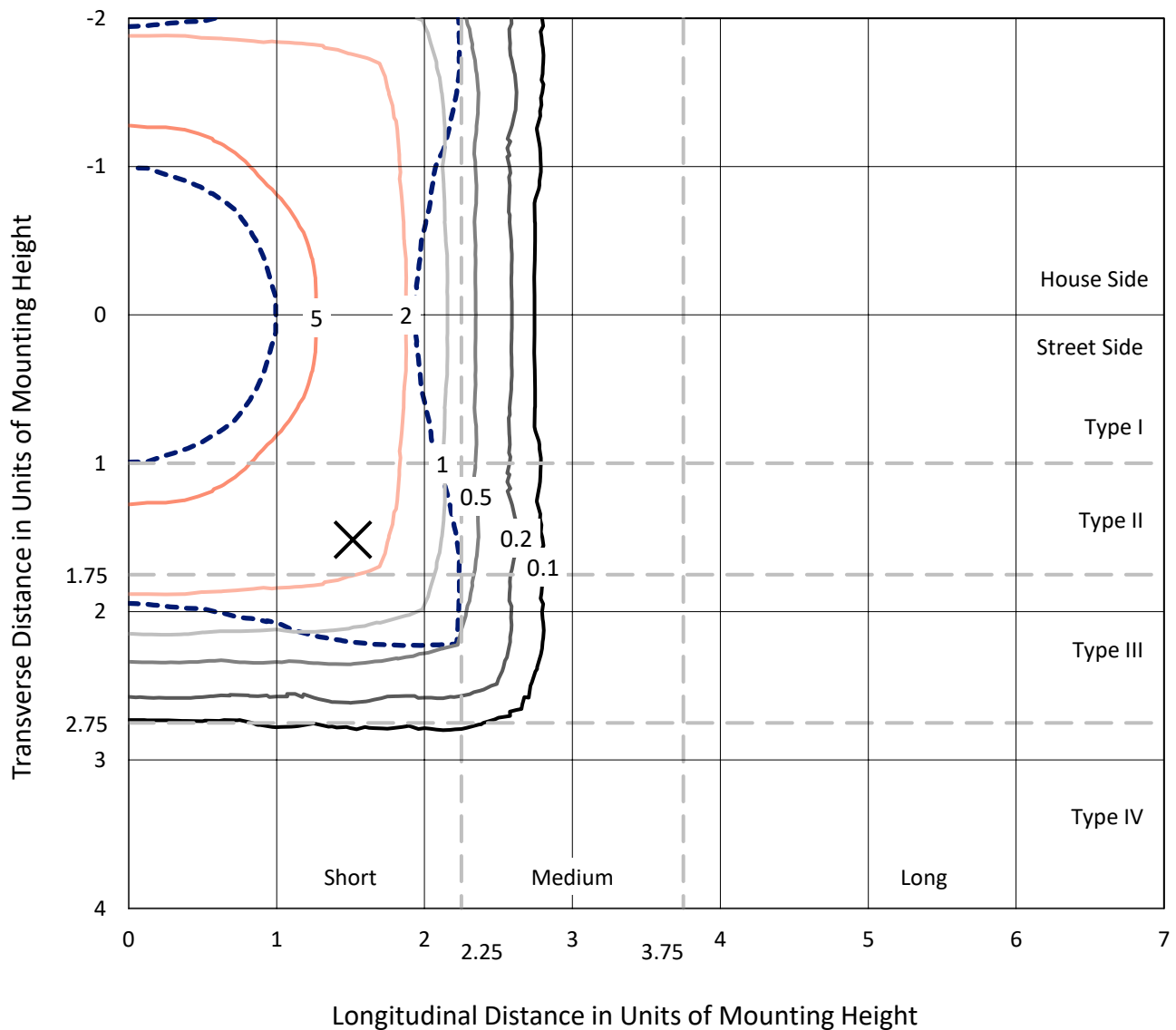
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P969418
CATALOG NUMBER: NAV-SB5D-827-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

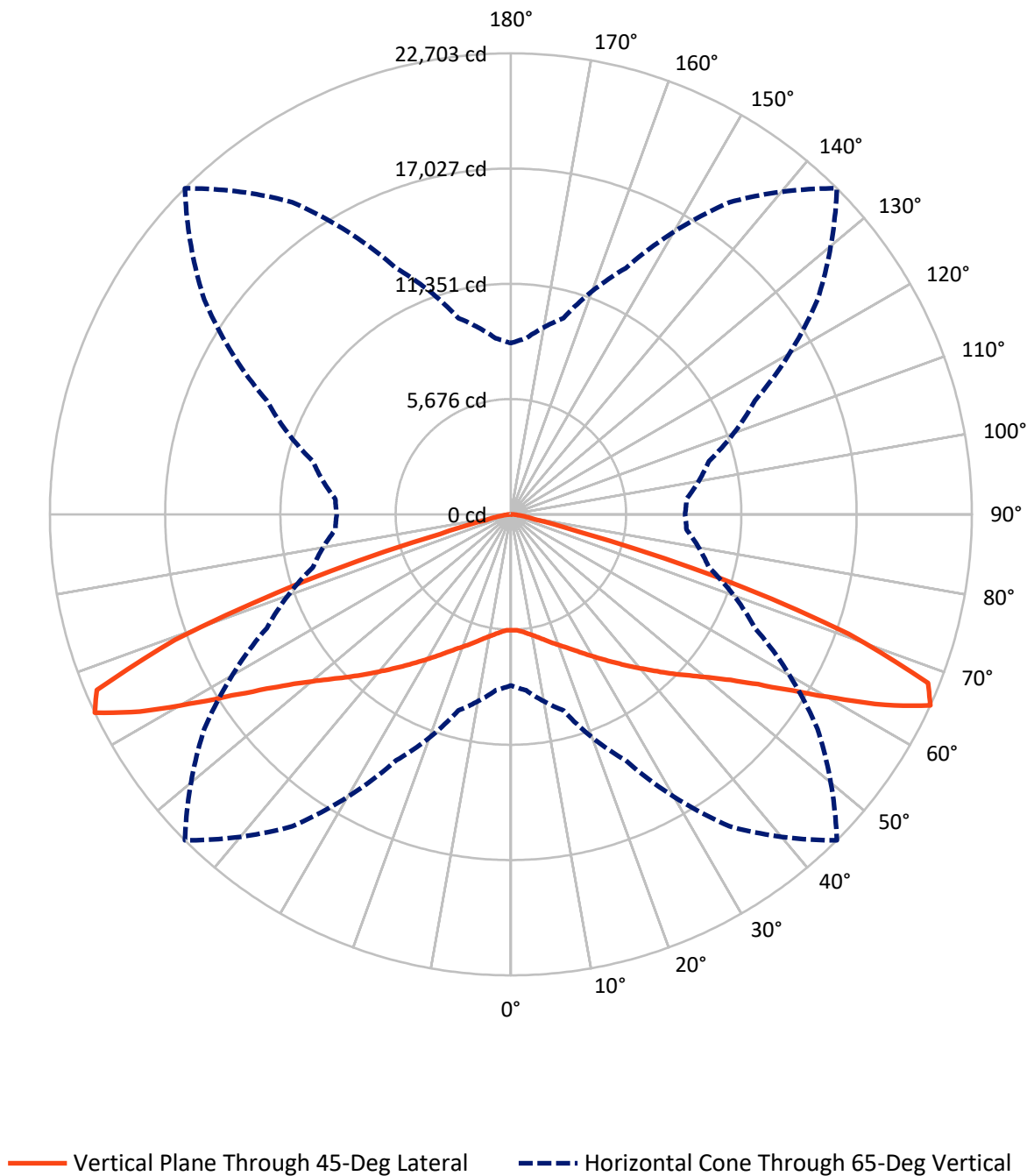
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
Type V - Short - N/A

REPORT NUMBER: P969418
CATALOG NUMBER: NAV-SB5D-827-U-5NQ

Luminous Intensity Polar Plot



REPORT NUMBER: P969418

CATALOG NUMBER: NAV-SB5D-827-U-5NQ

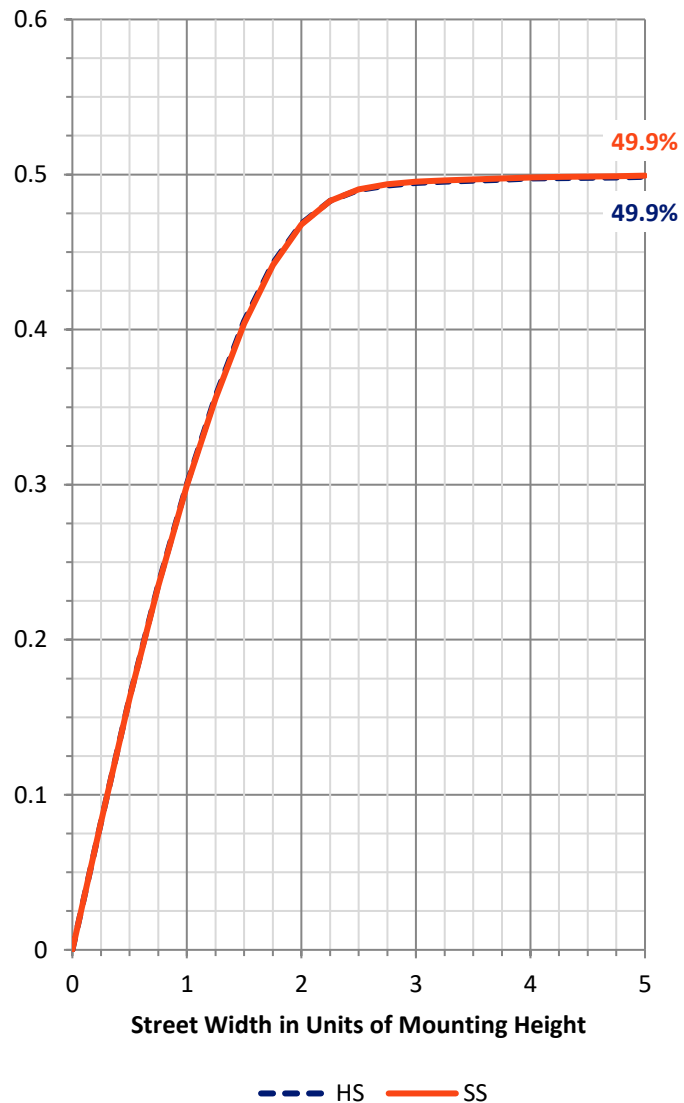
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24005.0	0.0	24005.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24005.0	0.0	24005.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	48010.0	0.0	48010.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.9	1.2
10°-20°	1840.0	3.8
20°-30°	3474.1	7.2
30°-40°	5688.8	11.8
40°-50°	8820.5	18.4
50°-60°	13029.7	27.1
60°-70°	12403.0	25.8
70°-80°	2001.4	4.2
80°-90°	188.7	0.4
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°	48010.0	100.0
0°-180°	48010.0	100.0

Coefficient of Utilization



REPORT NUMBER: P969418

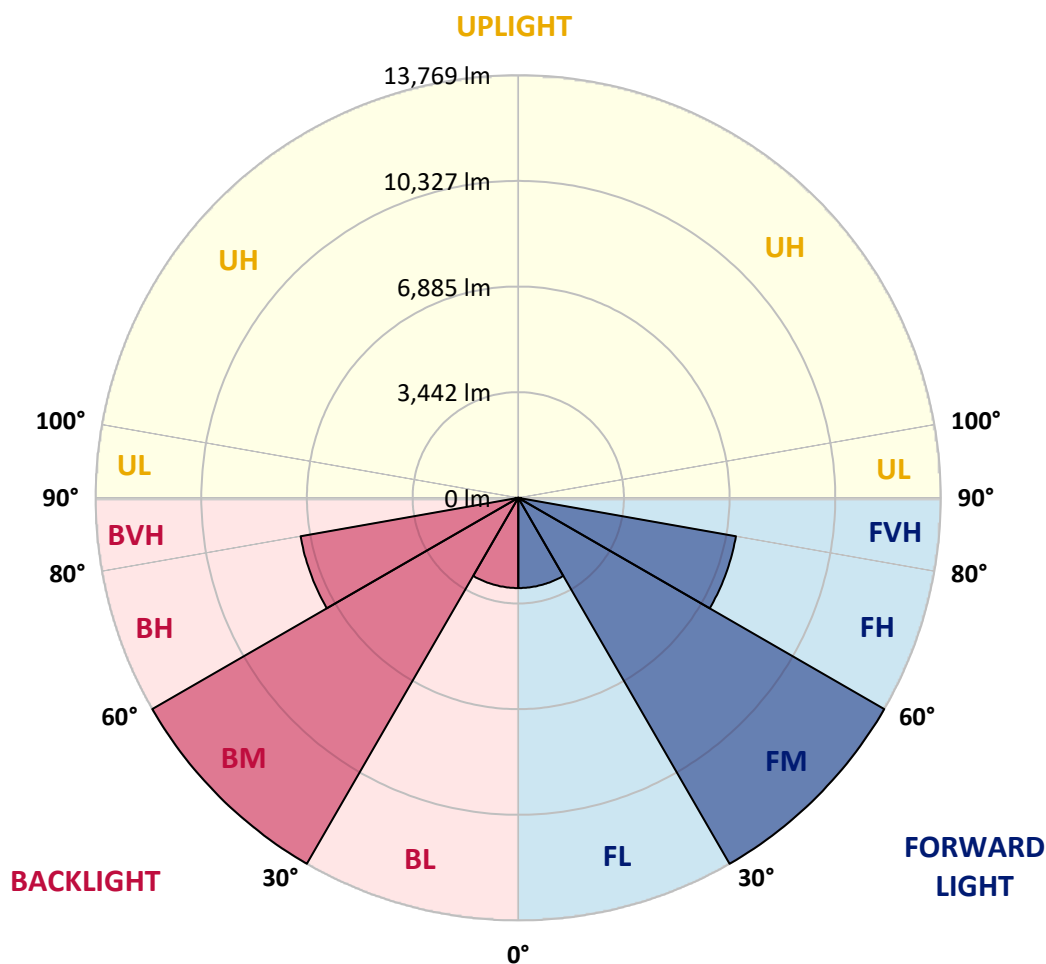
CATALOG NUMBER: NAV-SB5D-827-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2939.0	6.1			
FM	(30°-60°)	13769.4	28.7			
FH	(60°-80°)	7202.2	15.0			G3/7500
FVH	(80°-90°)	94.3	0.2			G1/100
BL	(0°-30°)	2939.0	6.1	B4/5000		
BM	(30°-60°)	13769.4	28.7	B5		
BH	(60°-80°)	7202.2	15.0	B5		G3/7500
BVH	(80°-90°)	94.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



REPORT NUMBER: P969418

CATALOG NUMBER: NAV-SB5D-827-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5713.7	5713.7	5713.7	5713.7	5713.7	5713.7	5713.7	5713.7	5713.7	5713.7	5713.7
2.5°	5752.2	5732.9	5747.4	5735.4	5725.8	5716.1	5720.9	5737.7	5745.0	5747.4	5747.4
5°	5829.3	5812.5	5819.6	5819.6	5802.8	5798.0	5800.4	5812.5	5826.9	5826.9	5826.9
7.5°	5954.5	5937.7	5954.5	5944.9	5930.4	5925.6	5923.3	5932.9	5954.5	5954.5	5947.4
10°	6106.3	6087.1	6096.7	6091.9	6075.0	6067.8	6065.3	6079.8	6099.1	6096.7	6091.9
12.5°	6272.5	6250.9	6262.9	6248.4	6243.6	6236.4	6236.4	6233.9	6246.0	6236.4	6241.2
15°	6458.0	6443.6	6448.4	6438.7	6445.9	6441.1	6421.8	6412.2	6417.0	6402.6	6405.0
17.5°	6677.2	6643.4	6660.3	6655.5	6655.5	6665.2	6633.8	6621.8	6631.4	6617.0	6629.0
20°	6930.1	6896.4	6903.6	6893.9	6882.0	6891.6	6853.0	6862.7	6869.9	6860.2	6882.0
22.5°	7207.1	7163.7	7161.4	7166.2	7139.6	7142.1	7115.6	7139.6	7154.1	7127.6	7154.1
25°	7491.3	7445.6	7476.9	7464.9	7431.1	7438.3	7419.1	7443.1	7455.2	7421.5	7460.1
27.5°	7792.5	7761.1	7790.0	7797.3	7756.3	7785.2	7756.3	7778.0	7790.0	7739.5	7778.0
30°	8144.1	8112.9	8139.3	8158.6	8110.4	8156.2	8132.1	8146.6	8149.0	8088.8	8124.9
32.5°	8527.2	8479.0	8546.4	8556.1	8503.1	8558.4	8527.2	8546.4	8558.4	8476.5	8532.0
35°	8994.5	8934.2	9011.3	8999.3	8953.5	8999.3	8970.4	8999.3	9028.2	8929.4	8989.7
37.5°	9497.9	9435.2	9517.1	9495.5	9452.1	9483.4	9466.6	9485.9	9531.6	9425.6	9490.7
40°	10051.9	9974.8	10085.6	10047.0	10006.2	10001.3	10011.0	10023.0	10083.2	9965.2	10003.7
42.5°	10644.5	10562.6	10728.8	10668.6	10610.8	10572.3	10603.5	10627.6	10685.4	10553.0	10622.8
45°	11321.3	11227.4	11444.2	11372.0	11280.4	11200.9	11251.5	11287.6	11372.0	11213.0	11294.9
47.5°	12068.0	11962.1	12193.3	12171.7	12022.3	11848.9	11964.5	12068.0	12130.7	11938.0	12003.1
50°	12797.9	12716.0	13019.6	13046.0	12862.9	12619.7	12781.0	12937.7	12954.5	12701.6	12732.9
52.5°	13482.0	13400.1	13841.0	14007.1	13843.3	13554.3	13725.4	13884.3	13756.6	13429.0	13438.7
55°	14028.9	13961.4	14522.6	14951.4	15006.8	14768.3	14869.5	14864.7	14445.5	13942.2	13959.0
57.5°	14161.3	14151.7	14859.8	15768.0	16346.1	16375.0	16175.1	15664.5	14761.1	14084.2	14040.9
60°	13559.1	13619.4	14592.5	16194.4	17736.0	18376.7	17511.9	16054.7	14402.2	13462.8	13352.0
62.5°	11757.4	11916.3	13089.5	15674.1	18858.5	20679.5	18583.9	15462.0	12928.0	11701.9	11629.6
65°	8426.0	8703.0	9998.9	13376.0	18757.3	22702.9	18429.7	13267.7	10095.2	8681.3	8577.7
67.5°	3822.7	4104.6	5205.4	9158.3	16305.2	22153.7	16266.6	9254.6	5465.6	4119.1	4058.8
70°	1385.1	1433.3	1787.3	3666.2	10420.5	17651.6	10866.1	3692.7	1900.6	1527.1	1507.9
72.5°	838.2	845.5	920.1	1312.8	3620.4	10716.8	3774.6	1356.2	939.4	833.4	847.9
75°	532.4	527.6	655.2	802.2	1283.9	3615.6	1346.5	802.2	652.8	595.0	599.8
77.5°	383.0	395.0	469.8	599.8	809.3	1226.1	794.9	573.3	469.8	385.4	392.7
80°	286.7	293.9	342.0	467.3	568.5	763.6	505.8	423.9	354.1	240.9	248.2
82.5°	207.2	207.2	224.1	339.7	346.9	411.9	274.6	298.7	233.7	171.1	171.1
85°	122.9	120.4	139.7	202.3	180.7	151.8	125.3	183.1	147.0	106.0	103.6
87.5°	43.4	45.8	43.4	57.8	48.2	41.0	38.5	50.6	41.0	36.2	33.7
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)