

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: P967325

Luminaire Tested: **NAV-SB4D-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967325
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-SB4D-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35960.1 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 293.6
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

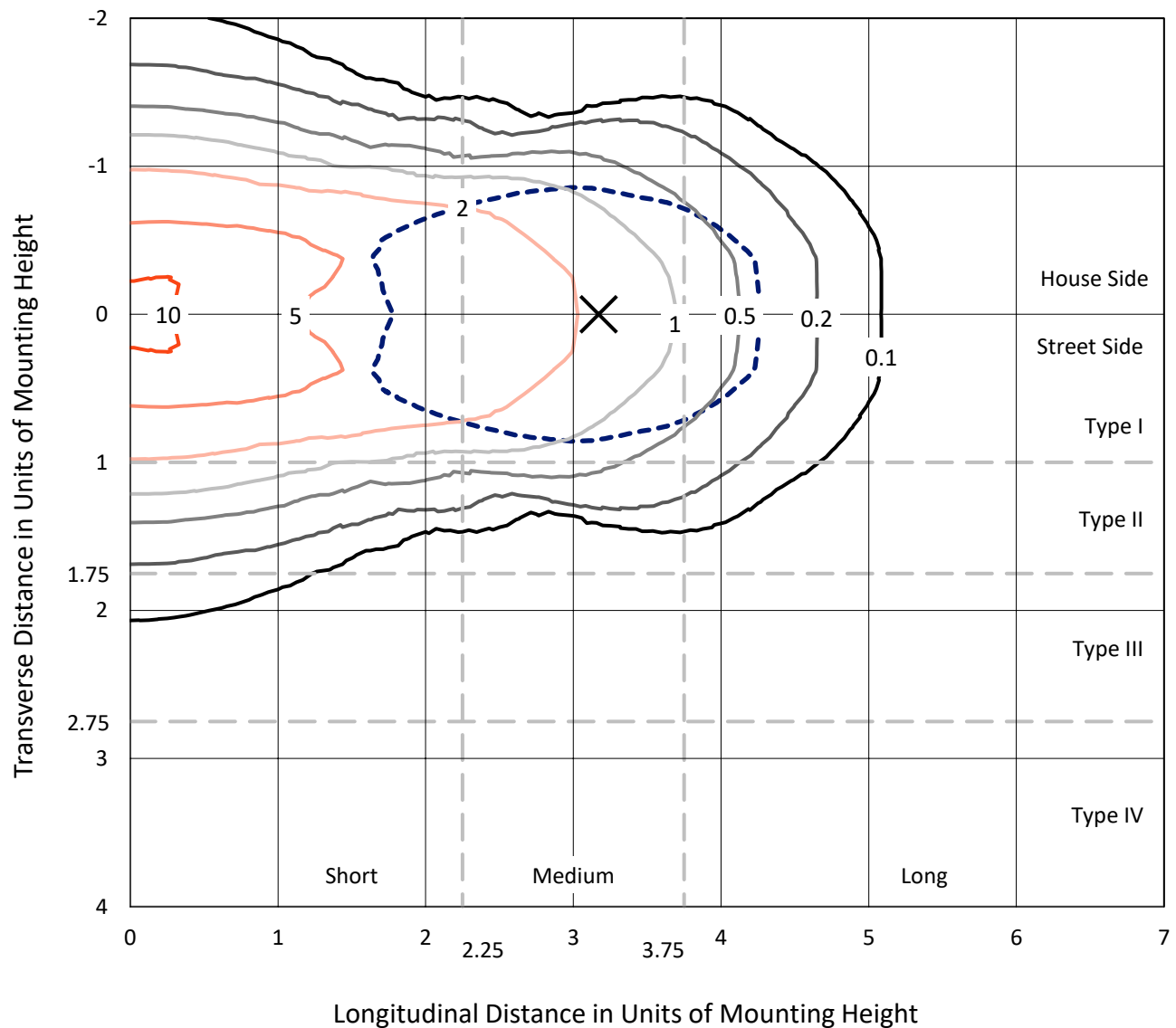


REPORT NUMBER: P967325

CATALOG NUMBER: NAV-SB4D-827-U-T1

Iso-Footcandle Lines of Horizontal Illumination

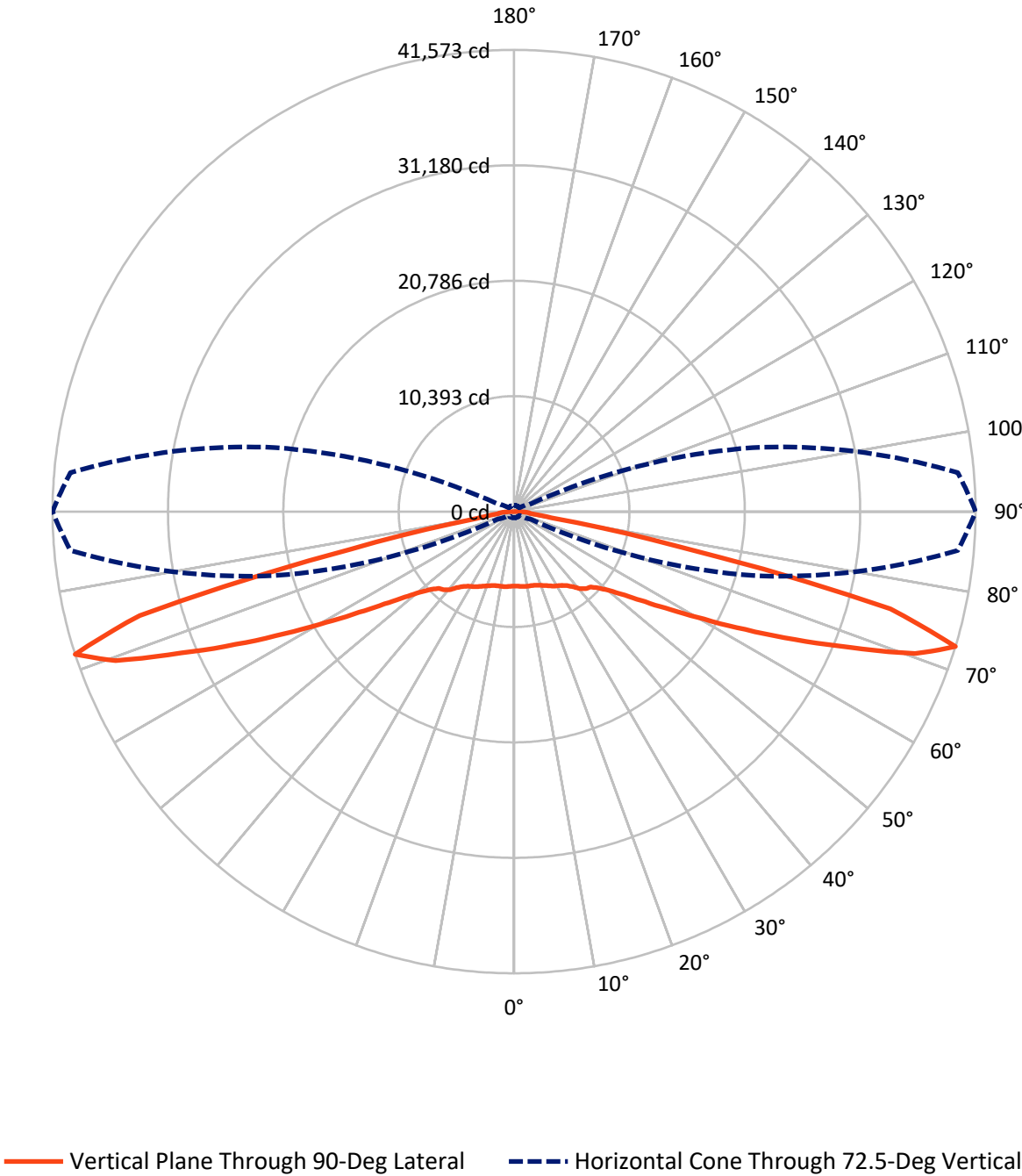
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
Type I - Short - N/A

REPORT NUMBER: P967325
CATALOG NUMBER: NAV-SB4D-827-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P967325

CATALOG NUMBER: NAV-SB4D-827-U-T1

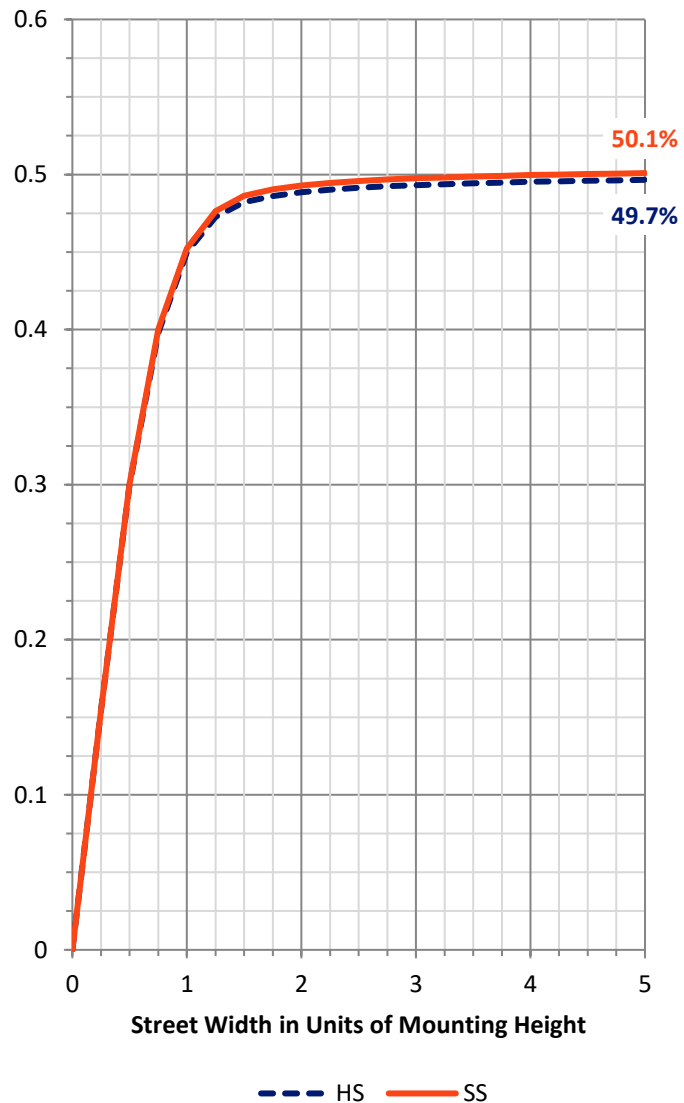
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17980.0	0.0	17980.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17980.0	0.0	17980.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	35960.1	0.0	35960.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	651.5	1.8
10°-20°	1992.1	5.5
20°-30°	3321.7	9.2
30°-40°	4568.4	12.7
40°-50°	5579.3	15.5
50°-60°	6453.0	17.9
60°-70°	7694.1	21.4
70°-80°	5370.0	14.9
80°-90°	329.8	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°	35960.1	100.0
0°-180°	35960.1	100.0

Coefficient of Utilization



REPORT NUMBER: P967325

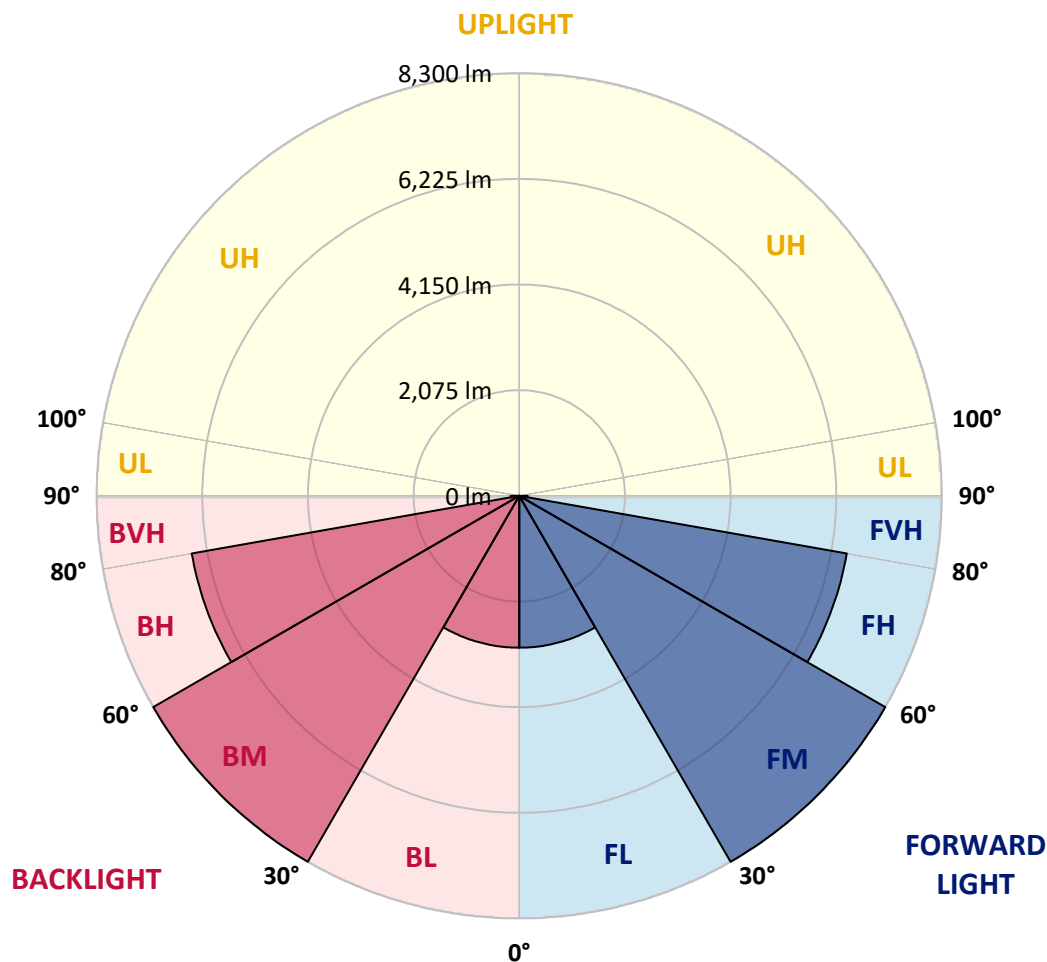
CATALOG NUMBER: NAV-SB4D-827-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2982.7	8.3			
FM	(30°-60°)	8300.3	23.1			
FH	(60°-80°)	6532.1	18.2			G3/7500
FVH	(80°-90°)	164.9	0.5			G2/225
BL	(0°-30°)	2982.7	8.3	B4/5000		
BM	(30°-60°)	8300.3	23.1	B4/8500		
BH	(60°-80°)	6532.1	18.2	B5		G5
BVH	(80°-90°)	164.9	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



REPORT NUMBER: P967325

CATALOG NUMBER: NAV-SB4D-827-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6719.5	6719.5	6719.5	6719.5	6719.5	6719.5	6719.5	6719.5	6719.5	6719.5	6719.5
2.5°	6725.2	6732.9	6732.9	6727.2	6740.5	6729.1	6729.1	6723.4	6729.1	6723.4	6723.4
5°	6759.7	6769.2	6773.0	6771.2	6788.4	6778.7	6778.7	6771.2	6773.0	6767.3	6767.3
7.5°	6824.7	6838.0	6845.7	6855.2	6880.0	6868.6	6860.9	6838.0	6828.4	6813.2	6813.2
10°	6845.7	6860.9	6885.7	6935.5	6992.9	6994.7	6971.7	6914.4	6870.5	6836.1	6830.4
12.5°	6780.7	6801.7	6853.3	6954.6	7082.6	7134.2	7097.9	7002.4	6916.4	6855.2	6845.7
15°	6698.5	6721.4	6799.7	6952.7	7141.9	7262.3	7258.4	7132.4	6994.7	6899.2	6883.9
17.5°	6570.5	6593.4	6706.2	6920.2	7187.7	7386.5	7440.1	7310.1	7117.0	6989.0	6968.0
20°	6339.2	6360.2	6517.0	6817.0	7203.1	7518.4	7657.9	7543.2	7302.4	7128.5	7096.0
22.5°	6039.2	6071.7	6255.2	6639.2	7166.7	7655.9	7906.3	7827.9	7518.4	7277.6	7233.6
25°	5718.1	5752.5	5966.5	6421.4	7073.1	7755.4	8200.6	8150.9	7763.0	7462.9	7401.8
27.5°	5441.0	5477.3	5710.5	6205.5	6927.9	7793.6	8491.1	8516.0	8059.3	7667.4	7602.4
30°	5223.1	5257.5	5506.0	6031.5	6740.5	7755.4	8745.3	8917.3	8361.1	7845.1	7751.6
32.5°	4984.3	5028.1	5290.0	5819.3	6518.9	7663.6	8967.0	9351.2	8711.0	8036.3	7917.8
35°	4682.3	4722.4	4997.6	5528.8	6228.3	7516.4	9152.4	9832.7	9211.7	8326.8	8194.9
37.5°	4315.4	4353.6	4626.8	5165.8	5939.8	7310.1	9293.8	10375.5	9807.9	8745.3	8569.5
40°	3946.5	3982.7	4238.9	4760.6	5593.8	7046.4	9343.5	10906.8	10492.1	9320.5	9133.3
42.5°	3608.2	3640.7	3875.7	4361.2	5205.9	6710.0	9278.5	11369.3	11105.6	9721.9	9481.1
45°	3296.7	3325.4	3533.7	3986.6	4802.6	6301.0	9083.6	11866.2	11835.6	10008.6	9683.7
47.5°	2941.2	2969.9	3185.8	3623.5	4399.4	5821.3	8753.0	12355.5	12850.4	10658.4	10283.7
50°	2507.4	2532.3	2754.0	3205.0	3980.9	5311.0	8294.3	12739.5	14130.9	11642.6	11172.4
52.5°	1993.3	2020.1	2236.0	2687.0	3484.0	4762.6	7690.4	12989.9	15610.0	13079.7	12500.7
55°	1483.1	1502.1	1689.4	2094.6	2868.6	4137.6	6933.6	13060.7	17288.1	15044.3	14320.1
57.5°	1075.9	1087.4	1207.9	1509.8	2174.8	3356.0	6014.3	12877.2	19285.2	17563.3	16651.6
60°	871.5	875.2	911.6	1045.4	1511.7	2473.0	4903.9	12246.5	21452.4	20810.3	19661.7
62.5°	791.2	791.2	800.7	837.1	1022.4	1632.1	3560.4	10939.3	23776.3	24913.4	23375.0
65°	735.7	735.7	739.6	756.8	806.5	1039.7	2247.5	8810.3	25735.2	29719.9	27774.4
67.5°	686.1	688.0	686.1	691.9	720.5	768.2	1303.4	6085.0	26790.1	34700.4	32600.0
70°	634.5	638.3	628.7	628.7	651.7	653.6	816.0	3336.8	25914.9	38874.3	38321.9
72.5°	573.4	579.0	563.8	560.0	577.2	569.5	613.5	1601.6	22249.4	40120.2	41572.8
75°	519.8	527.5	493.0	483.5	483.5	477.8	498.8	821.7	14440.5	32728.0	35006.1
77.5°	472.0	487.4	431.9	401.3	393.7	376.5	407.0	502.7	6316.3	15365.5	15046.3
80°	389.9	410.9	355.5	319.2	305.8	286.7	321.0	351.7	1878.6	3568.0	3417.0
82.5°	290.5	300.0	252.3	227.4	216.0	202.5	240.8	244.7	611.5	1263.2	1427.6
85°	185.4	189.2	154.8	133.8	128.0	122.3	152.9	133.8	233.2	928.9	1349.2
87.5°	65.0	74.5	59.2	53.5	57.3	47.8	70.7	40.2	65.0	655.5	812.2
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)