

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: P968410

Luminaire Tested: **NAV-SB5B-830-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968410
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-SB5B-830-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25917.1 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

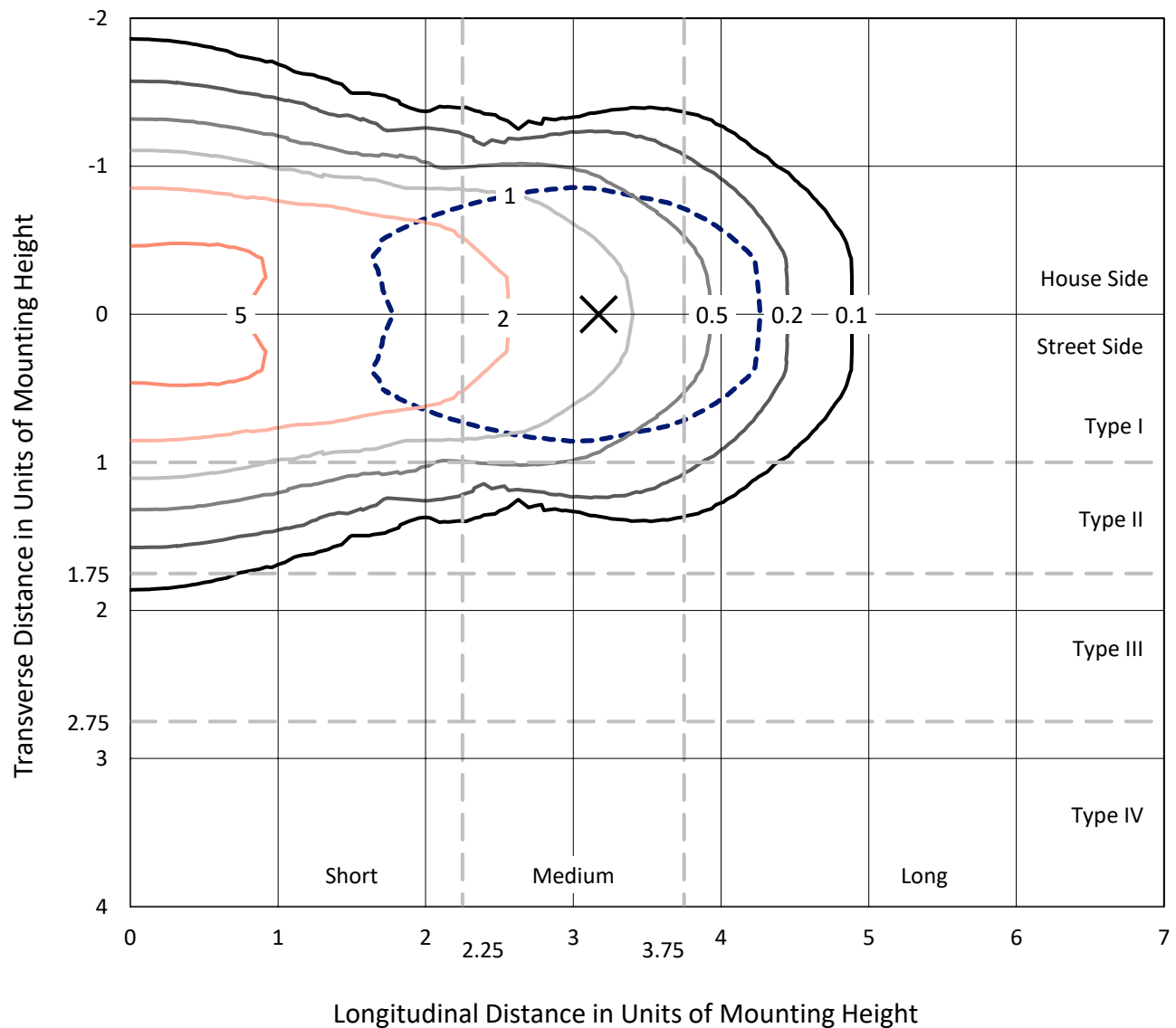
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P968410
CATALOG NUMBER: NAV-SB5B-830-U-T1

Iso-Footcandle Lines of Horizontal Illumination

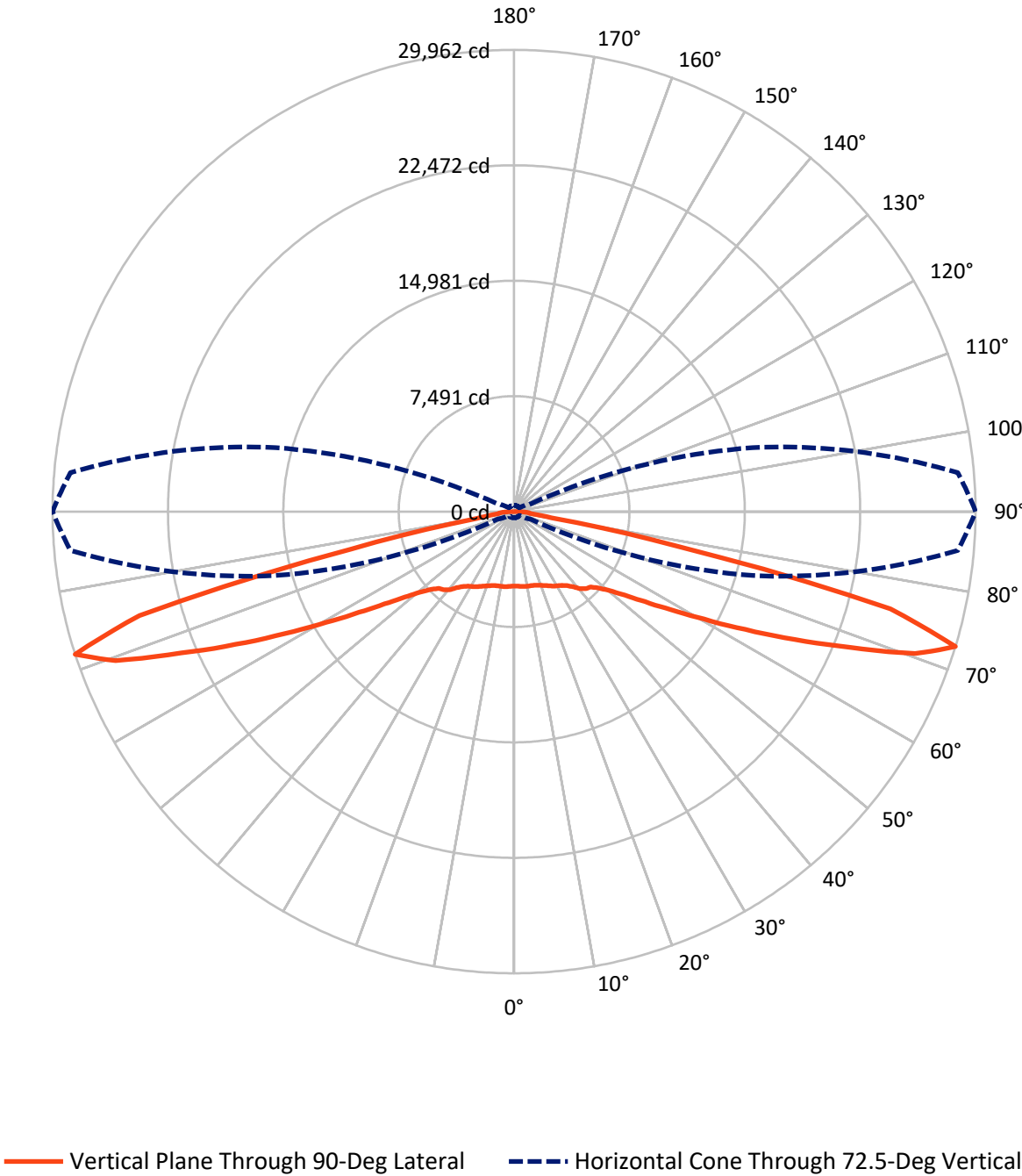
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
Type I - Short - N/A

REPORT NUMBER: P968410
CATALOG NUMBER: NAV-SB5B-830-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P968410

CATALOG NUMBER: NAV-SB5B-830-U-T1

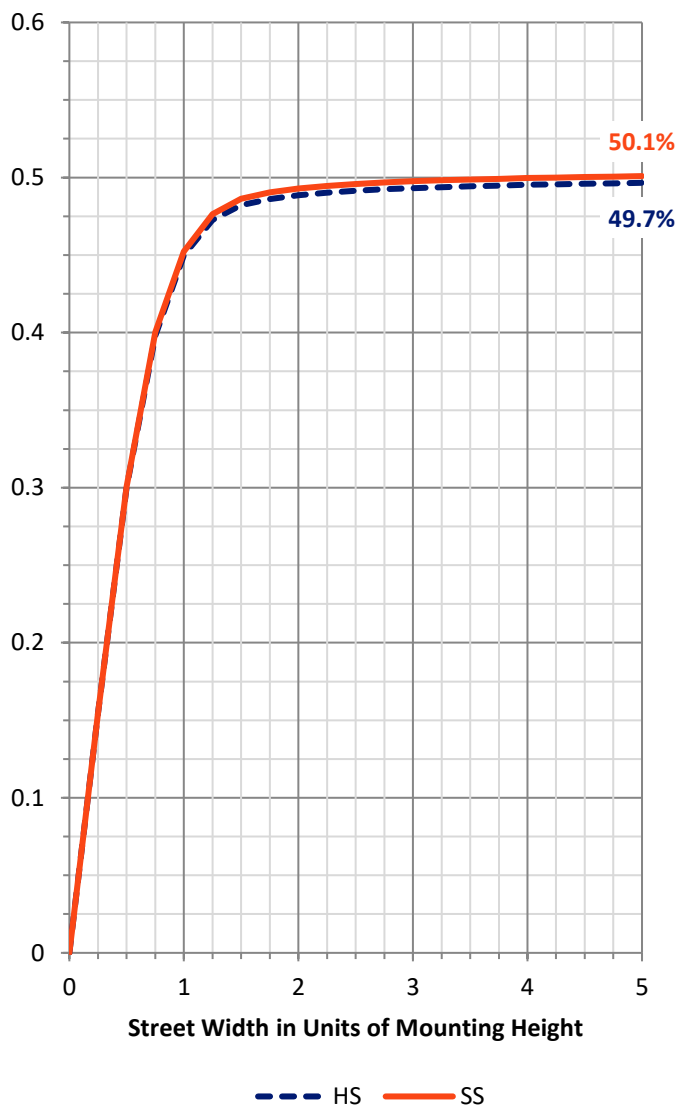
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12958.6	0.0	12958.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12958.6	0.0	12958.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	25917.1	0.0	25917.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.6	1.8
10°-20°	1435.8	5.5
20°-30°	2394.0	9.2
30°-40°	3292.5	12.7
40°-50°	4021.1	15.5
50°-60°	4650.8	17.9
60°-70°	5545.3	21.4
70°-80°	3870.3	14.9
80°-90°	237.7	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°	25917.1	100.0
0°-180°	25917.1	100.0

Coefficient of Utilization



REPORT NUMBER: P968410

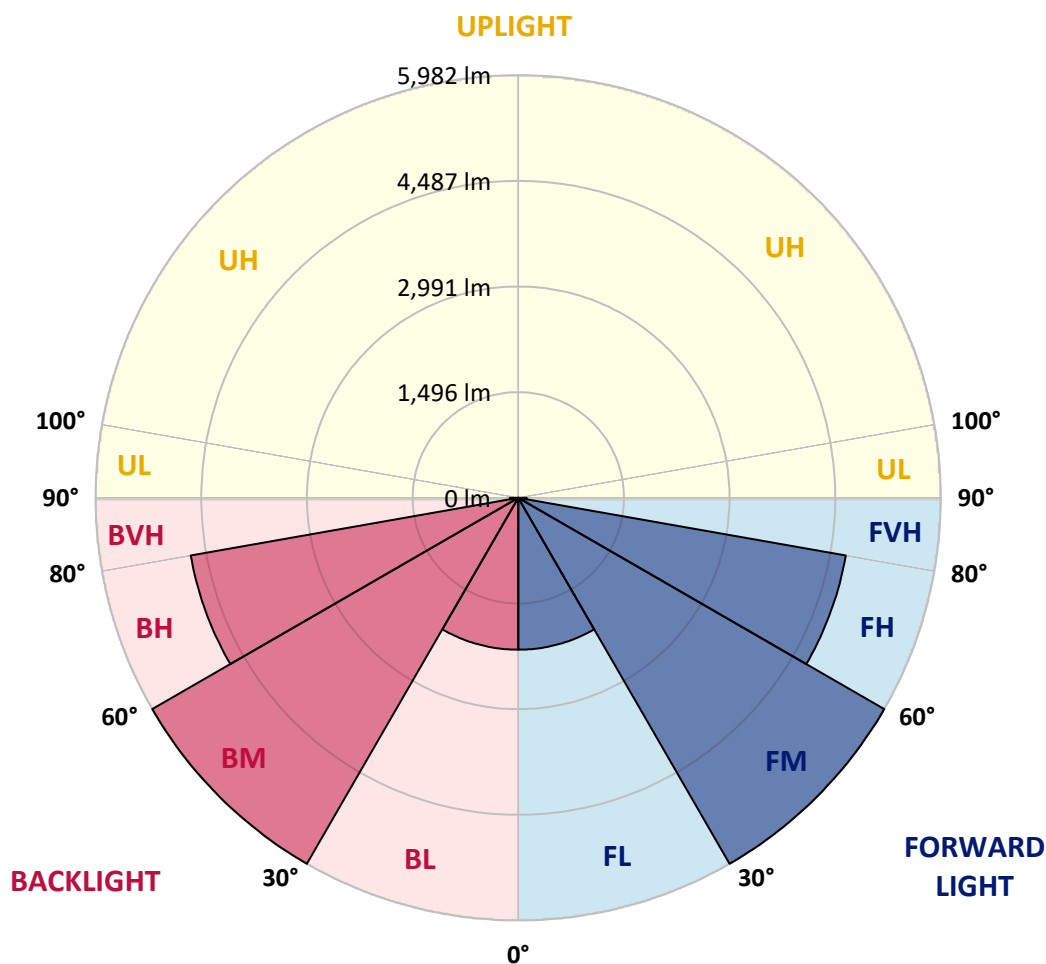
CATALOG NUMBER: NAV-SB5B-830-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2149.7	8.3			
FM	(30°-60°)	5982.2	23.1			
FH	(60°-80°)	4707.8	18.2			G2/5000
FVH	(80°-90°)	118.8	0.5			G2/225
BL	(0°-30°)	2149.7	8.3	B3/2500		
BM	(30°-60°)	5982.2	23.1	B4/8500		
BH	(60°-80°)	4707.8	18.2	B4/5000		G4/5000
BVH	(80°-90°)	118.8	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



REPORT NUMBER: P968410

CATALOG NUMBER: NAV-SB5B-830-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4842.9	4842.9	4842.9	4842.9	4842.9	4842.9	4842.9	4842.9	4842.9	4842.9	4842.9
2.5°	4847.0	4852.6	4852.6	4848.4	4858.1	4849.8	4849.8	4845.7	4849.8	4845.7	4845.7
5°	4871.8	4878.7	4881.5	4880.1	4892.4	4885.6	4885.6	4880.1	4881.5	4877.4	4877.4
7.5°	4918.7	4928.3	4933.8	4940.7	4958.5	4950.3	4944.8	4928.3	4921.4	4910.4	4910.4
10°	4933.8	4944.8	4962.7	4998.5	5039.8	5041.3	5024.7	4983.3	4951.7	4926.9	4922.8
12.5°	4887.0	4902.2	4939.3	5012.4	5104.6	5141.8	5115.6	5046.8	4984.8	4940.7	4933.8
15°	4827.8	4844.3	4900.7	5010.9	5147.2	5234.1	5231.3	5140.4	5041.3	4972.4	4961.3
17.5°	4735.5	4752.0	4833.3	4987.5	5180.3	5323.6	5362.2	5268.5	5129.4	5037.1	5022.0
20°	4568.8	4583.9	4696.9	4913.1	5191.3	5418.7	5519.2	5436.5	5263.0	5137.6	5114.2
22.5°	4352.6	4375.9	4508.2	4785.0	5165.2	5517.8	5698.3	5641.8	5418.7	5245.1	5213.4
25°	4121.1	4145.9	4300.2	4628.0	5097.7	5589.4	5910.4	5874.6	5595.0	5378.7	5334.6
27.5°	3921.4	3947.6	4115.6	4472.4	4993.0	5617.0	6119.8	6137.6	5808.5	5526.1	5479.2
30°	3764.4	3789.2	3968.3	4347.0	4858.1	5589.4	6302.9	6426.9	6026.1	5654.2	5586.7
32.5°	3592.2	3623.9	3812.6	4194.1	4698.3	5523.3	6462.7	6739.6	6278.1	5791.9	5706.5
35°	3374.6	3403.5	3601.8	3984.8	4488.9	5417.2	6596.3	7086.6	6639.0	6001.3	5906.3
37.5°	3110.2	3137.7	3334.6	3723.1	4280.9	5268.5	6698.3	7477.8	7068.7	6302.9	6176.2
40°	2844.3	2870.5	3055.0	3431.1	4031.6	5078.5	6734.0	7860.7	7561.8	6717.5	6582.6
42.5°	2600.5	2623.9	2793.3	3143.2	3752.0	4836.1	6687.2	8194.1	8004.0	7006.8	6833.2
45°	2376.0	2396.7	2546.8	2873.2	3461.3	4541.3	6546.7	8552.2	8530.2	7213.3	6979.2
47.5°	2119.8	2140.5	2296.1	2611.5	3170.7	4195.5	6308.5	8904.8	9261.6	7681.7	7411.7
50°	1807.2	1825.0	1984.8	2309.8	2869.1	3827.8	5977.9	9181.6	10184.4	8391.1	8052.2
52.5°	1436.6	1455.9	1611.5	1936.6	2510.9	3432.4	5542.6	9362.0	11250.5	9426.8	9009.4
55°	1068.9	1082.6	1217.6	1509.6	2067.4	2982.0	4997.2	9413.1	12459.8	10842.8	10320.7
57.5°	775.5	783.7	870.5	1088.1	1567.4	2418.7	4334.6	9280.9	13899.2	12658.1	12001.2
60°	628.1	630.9	657.0	753.5	1089.5	1782.4	3534.4	8826.3	15461.2	14998.3	14170.5
62.5°	570.2	570.2	577.1	603.3	736.9	1176.3	2566.1	7884.2	17136.1	17955.6	16846.8
65°	530.3	530.3	533.0	545.4	581.3	749.3	1619.8	6349.8	18547.9	21419.7	20017.5
67.5°	494.5	495.9	494.5	498.7	519.3	553.7	939.4	4385.6	19308.2	25009.2	23495.5
70°	457.3	460.0	453.2	453.2	469.7	471.1	588.1	2405.0	18677.3	28017.5	27619.3
72.5°	413.2	417.4	406.3	403.5	415.9	410.4	442.2	1154.3	16035.5	28915.5	29962.3
75°	374.6	380.2	355.4	348.5	348.5	344.3	359.5	592.2	10407.5	23587.7	25229.6
77.5°	340.2	351.3	311.3	289.3	283.7	271.3	293.4	362.2	4552.2	11074.2	10844.2
80°	281.0	296.1	256.1	230.0	220.4	206.6	231.4	253.5	1353.9	2571.6	2462.8
82.5°	209.4	216.3	181.8	163.9	155.6	146.0	173.5	176.3	440.7	910.4	1028.9
85°	133.6	136.3	111.5	96.5	92.2	88.1	110.2	96.5	168.0	669.4	972.4
87.5°	46.8	53.7	42.7	38.5	41.3	34.4	50.9	28.9	46.8	472.4	585.4
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)