

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: P968937

Luminaire Tested: **NAV-SB5C-830-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968937
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-SB5C-830-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34468.7 lumens
Efficiency: N/A
Efficacy: 138.2 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): 249.5
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



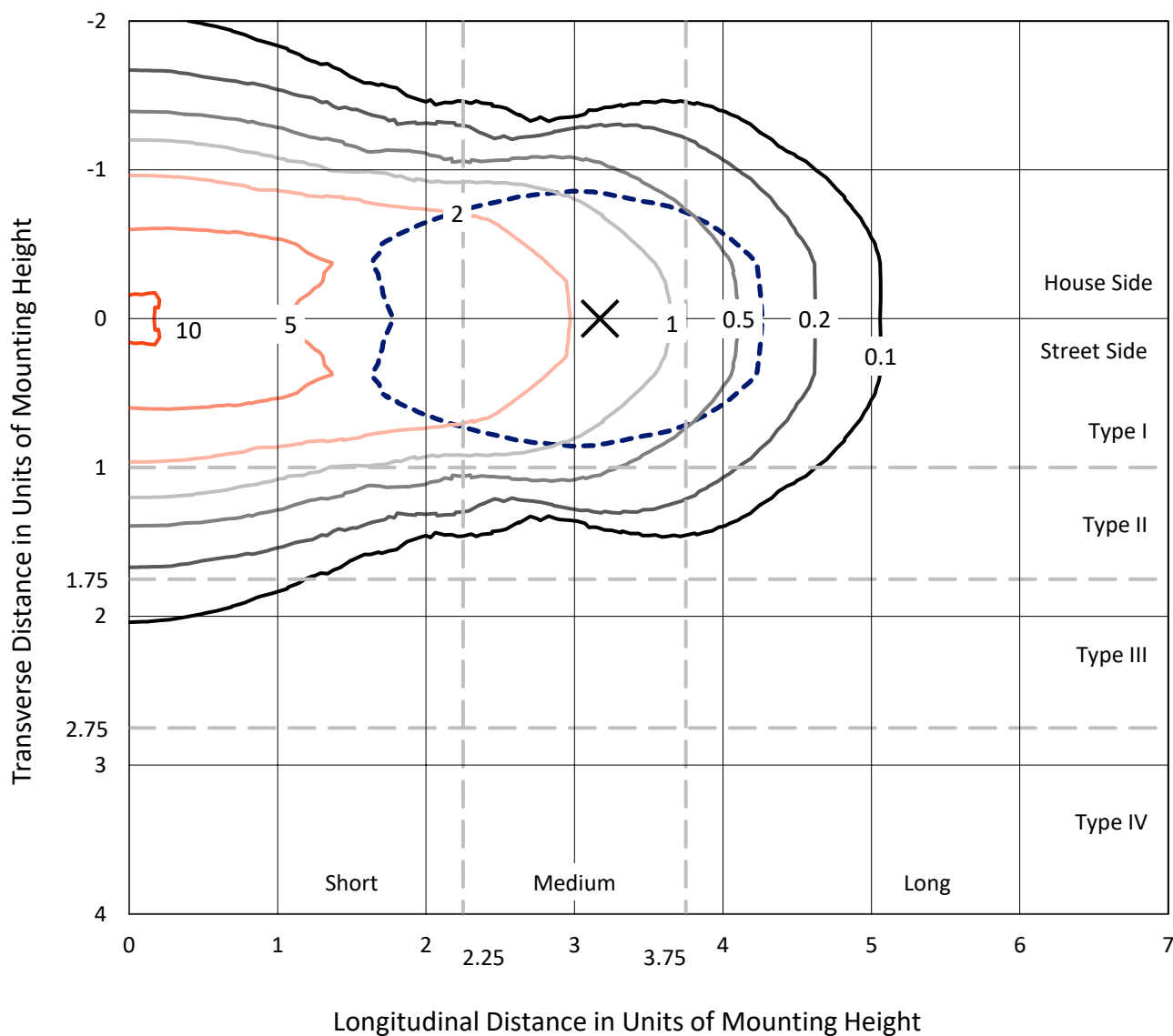
REPORT NUMBER: P968937

CATALOG NUMBER: NAV-SB5C-830-U-T1

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

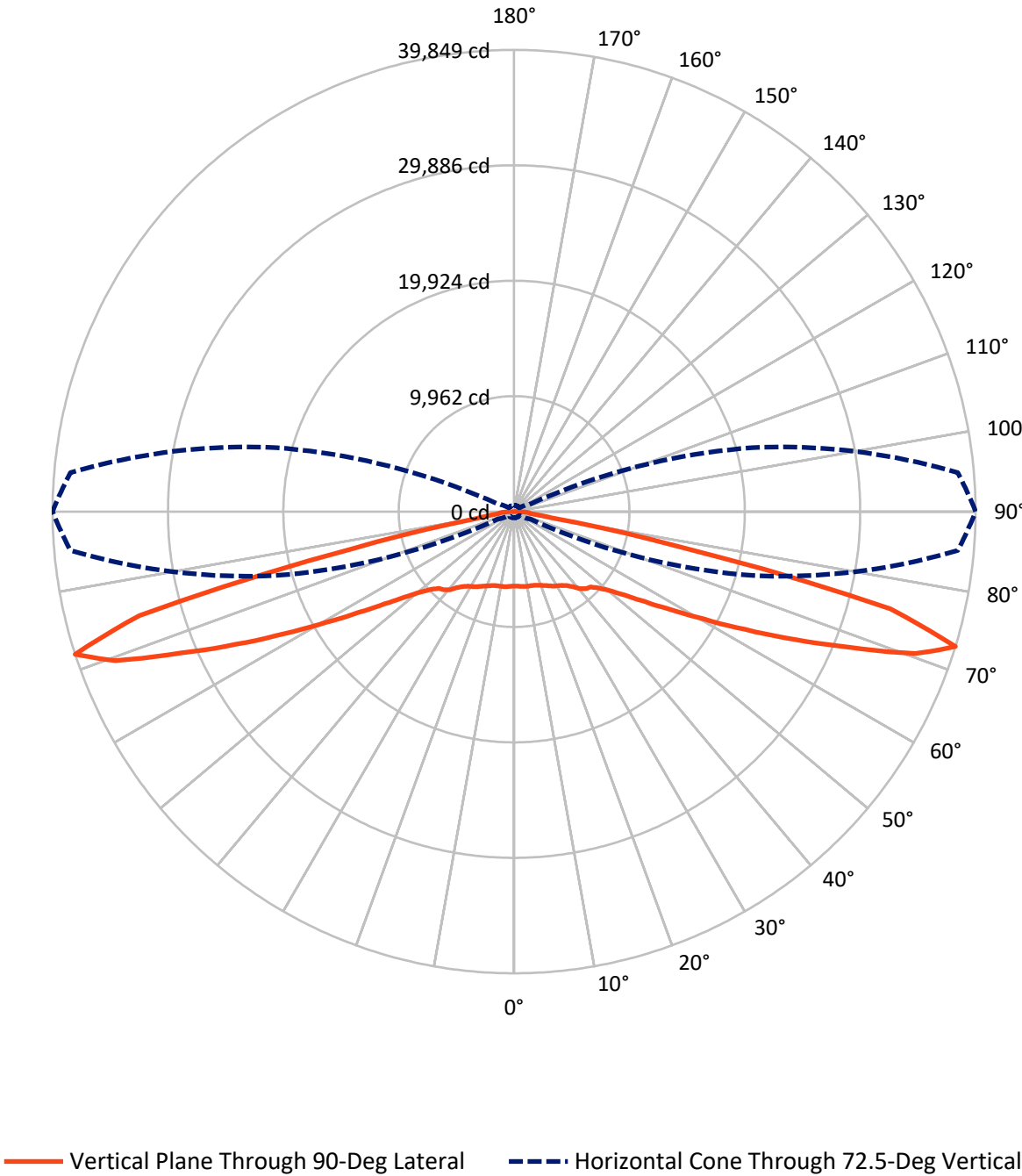


Based on 25 foot mounting height. Maximum calculated value = 10.3 fc

Type I - Short - N/A

REPORT NUMBER: P968937
CATALOG NUMBER: NAV-SB5C-830-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P968937

CATALOG NUMBER: NAV-SB5C-830-U-T1

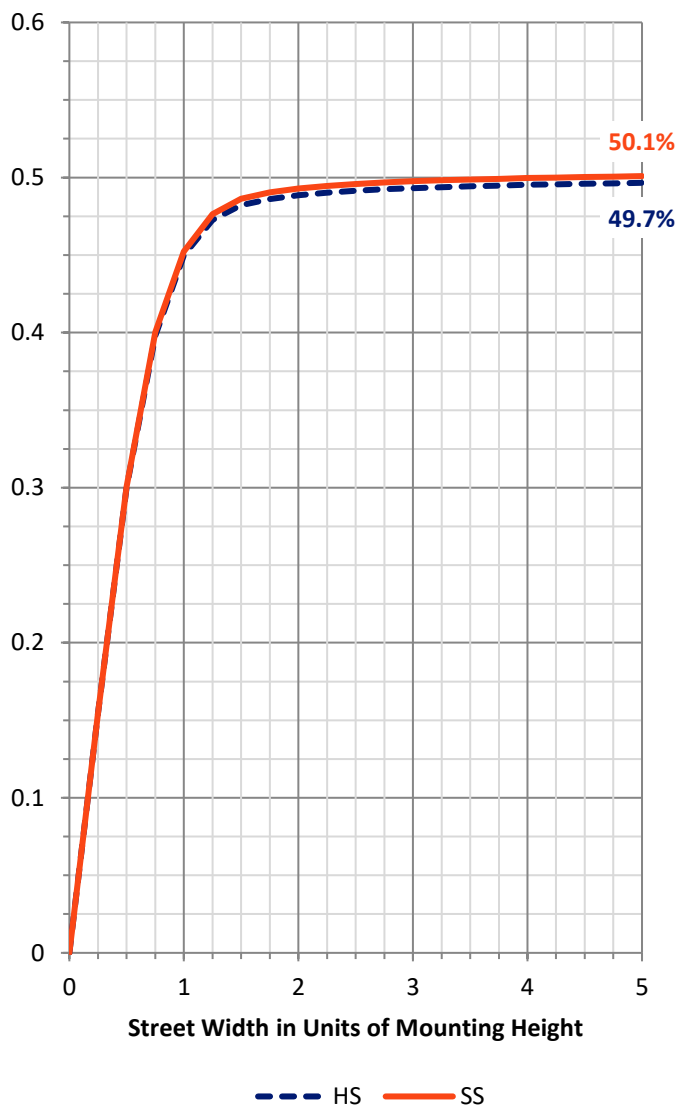
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17234.3	0.0	17234.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17234.3	0.0	17234.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	34468.7	0.0	34468.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	624.5	1.8
10°-20°	1909.5	5.5
20°-30°	3184.0	9.2
30°-40°	4378.9	12.7
40°-50°	5347.9	15.5
50°-60°	6185.4	17.9
60°-70°	7375.1	21.4
70°-80°	5147.3	14.9
80°-90°	316.1	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°	34468.7	100.0
0°-180°	34468.7	100.0

Coefficient of Utilization



REPORT NUMBER: P968937

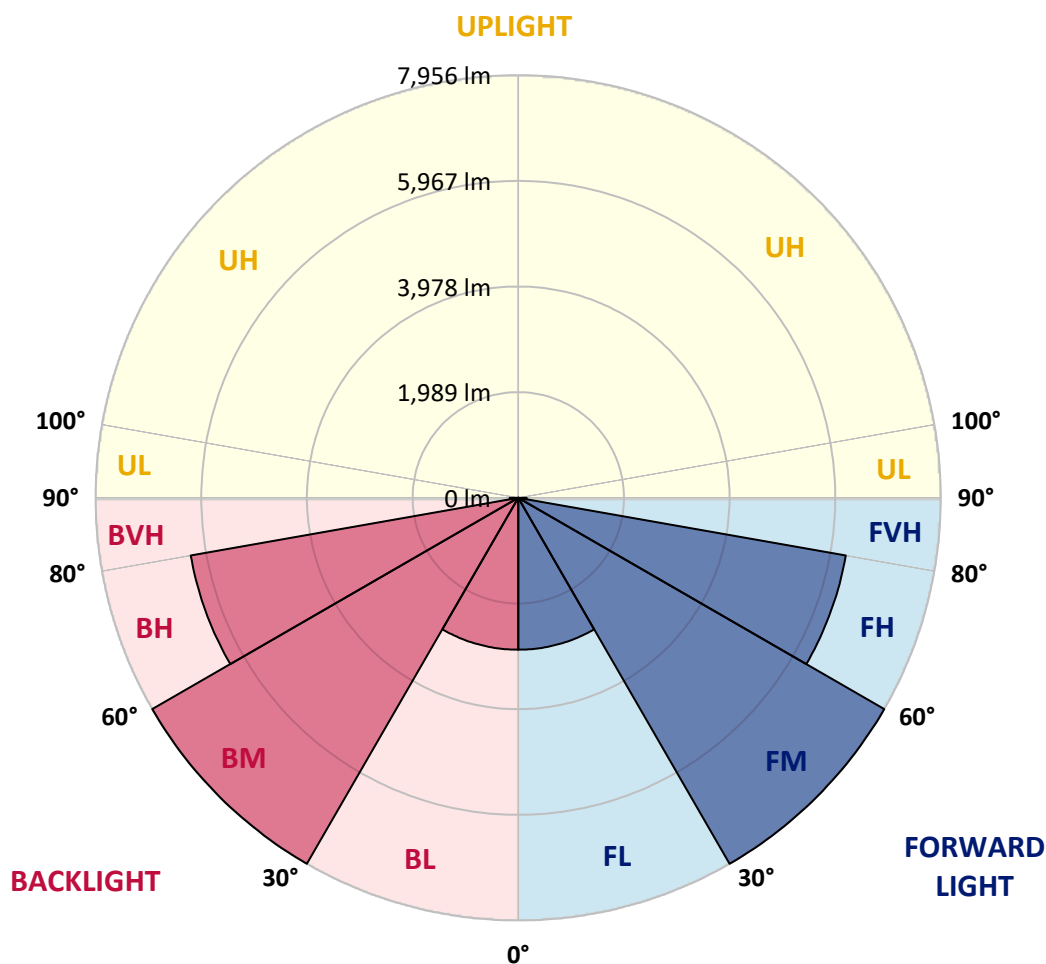
CATALOG NUMBER: NAV-SB5C-830-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2859.0	8.3			
FM	(30°-60°)	7956.1	23.1			
FH	(60°-80°)	6261.2	18.2			G3/7500
FVH	(80°-90°)	158.1	0.5			G2/225
BL	(0°-30°)	2859.0	8.3	B4/5000		
BM	(30°-60°)	7956.1	23.1	B4/8500		
BH	(60°-80°)	6261.2	18.2	B5		G5
BVH	(80°-90°)	158.1	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: P968937

CATALOG NUMBER: NAV-SB5C-830-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6440.8	6440.8	6440.8	6440.8	6440.8	6440.8	6440.8	6440.8	6440.8	6440.8	6440.8
2.5°	6446.3	6453.7	6453.7	6448.2	6461.0	6450.0	6450.0	6444.5	6450.0	6444.5	6444.5
5°	6479.3	6488.5	6492.1	6490.3	6506.8	6497.6	6497.6	6490.3	6492.1	6486.6	6486.6
7.5°	6541.5	6554.5	6561.7	6570.9	6594.7	6583.7	6576.4	6554.5	6545.2	6530.6	6530.6
10°	6561.7	6576.4	6600.2	6647.8	6702.8	6704.6	6682.7	6627.6	6585.5	6552.6	6547.1
12.5°	6499.4	6519.6	6569.0	6666.2	6788.9	6838.4	6803.5	6712.0	6629.5	6570.9	6561.7
15°	6420.7	6442.6	6517.8	6664.3	6845.7	6961.1	6957.4	6836.5	6704.6	6613.0	6598.3
17.5°	6297.9	6319.9	6428.0	6633.2	6889.6	7080.2	7131.4	7006.9	6821.9	6699.1	6679.0
20°	6076.3	6096.5	6246.7	6534.3	6904.3	7206.6	7340.3	7230.4	6999.5	6832.9	6801.7
22.5°	5788.7	5819.8	5995.7	6363.9	6869.4	7338.5	7578.4	7503.3	7206.6	6975.7	6933.6
25°	5481.0	5513.9	5719.1	6155.0	6779.8	7433.7	7860.5	7812.9	7441.1	7153.5	7094.8
27.5°	5215.3	5250.2	5473.6	5948.1	6640.6	7470.3	8139.0	8162.8	7725.0	7349.5	7287.1
30°	5006.5	5039.4	5277.6	5781.4	6461.0	7433.7	8382.7	8547.5	8014.4	7519.8	7430.0
32.5°	4777.5	4819.7	5070.6	5578.0	6248.5	7345.8	8595.1	8963.3	8349.6	7703.0	7589.4
35°	4488.1	4526.5	4790.3	5299.6	5970.0	7204.7	8772.8	9425.0	8829.6	7981.5	7855.1
37.5°	4136.4	4173.0	4435.0	4951.6	5693.5	7006.9	8908.4	9945.2	9401.1	8382.7	8214.0
40°	3782.8	3817.6	4063.1	4563.2	5361.9	6754.1	8956.0	10454.5	10057.0	8934.0	8754.5
42.5°	3458.6	3489.7	3715.0	4180.4	4990.0	6431.7	8893.7	10897.8	10644.9	9318.7	9087.9
45°	3160.0	3187.4	3387.1	3821.3	4603.5	6039.7	8706.9	11374.0	11344.7	9593.5	9282.1
47.5°	2819.3	2846.7	3053.7	3473.2	4217.0	5579.9	8389.9	11843.1	12317.4	10216.3	9857.2
50°	2403.4	2427.2	2639.7	3072.0	3815.8	5090.8	7950.3	12211.2	13544.9	11159.7	10709.1
52.5°	1910.6	1936.3	2143.3	2575.6	3339.4	4565.0	7371.4	12451.2	14962.6	12537.3	11982.2
55°	1421.6	1439.8	1619.4	2007.8	2749.7	3966.0	6646.0	12518.9	16571.1	14420.4	13726.2
57.5°	1031.4	1042.3	1157.7	1447.2	2084.6	3216.8	5764.9	12343.2	18485.4	16834.8	15961.1
60°	835.4	839.0	873.8	1002.0	1449.0	2370.4	4700.5	11738.6	20562.7	19947.2	18846.3
62.5°	758.4	758.4	767.5	802.4	980.0	1564.5	3412.7	10485.6	22790.3	23880.2	22405.6
65°	705.3	705.3	708.9	725.4	773.1	996.5	2154.2	8444.9	24667.9	28487.3	26622.5
67.5°	657.6	659.5	657.6	663.2	690.6	736.4	1249.4	5832.7	25679.1	33261.1	31247.9
70°	608.1	611.8	602.7	602.7	624.6	626.5	782.2	3198.4	24840.1	37262.0	36732.6
72.5°	549.6	555.0	540.4	536.7	553.2	545.9	588.0	1535.1	21326.6	38456.4	39848.6
75°	498.3	505.6	472.6	463.5	463.5	458.0	478.2	787.7	13841.6	31370.7	33554.3
77.5°	452.4	467.1	414.0	384.7	377.4	360.9	390.2	481.7	6054.4	14728.2	14422.3
80°	373.7	393.8	340.7	306.0	293.0	274.8	307.7	337.0	1800.7	3420.1	3275.4
82.5°	278.5	287.6	241.8	218.0	207.0	194.1	230.8	234.5	586.2	1210.8	1368.4
85°	177.7	181.3	148.4	128.2	122.7	117.3	146.6	128.2	223.4	890.3	1293.3
87.5°	62.3	71.4	56.8	51.2	54.9	45.8	67.8	38.4	62.3	628.3	778.6
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)