

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: P971045

Luminaire Tested: **NAV-SB6C-830-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971045
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-SB6C-830-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 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: 41378.2 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

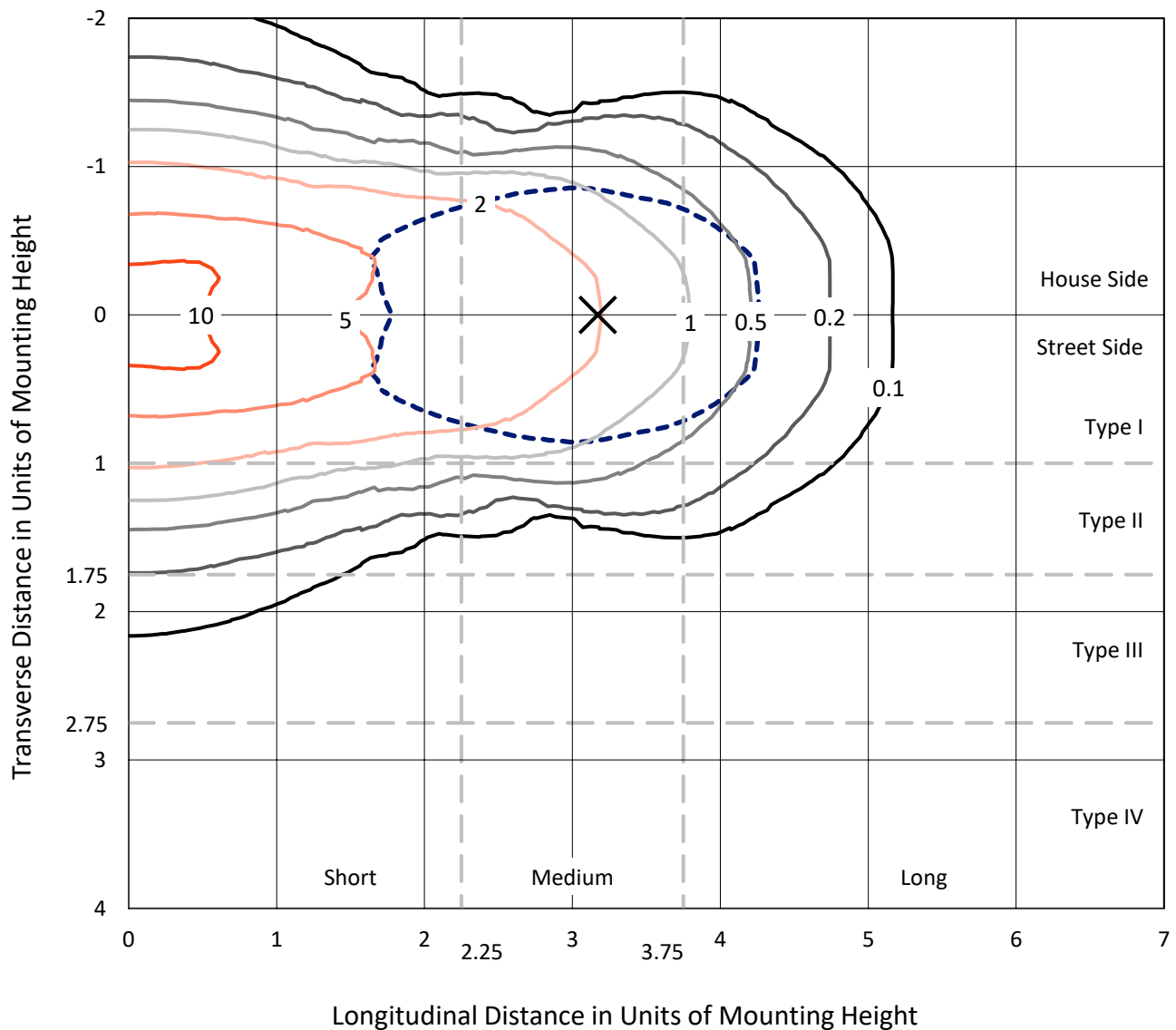
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P971045
CATALOG NUMBER: NAV-SB6C-830-U-T1

Iso-Footcandle Lines of Horizontal Illumination

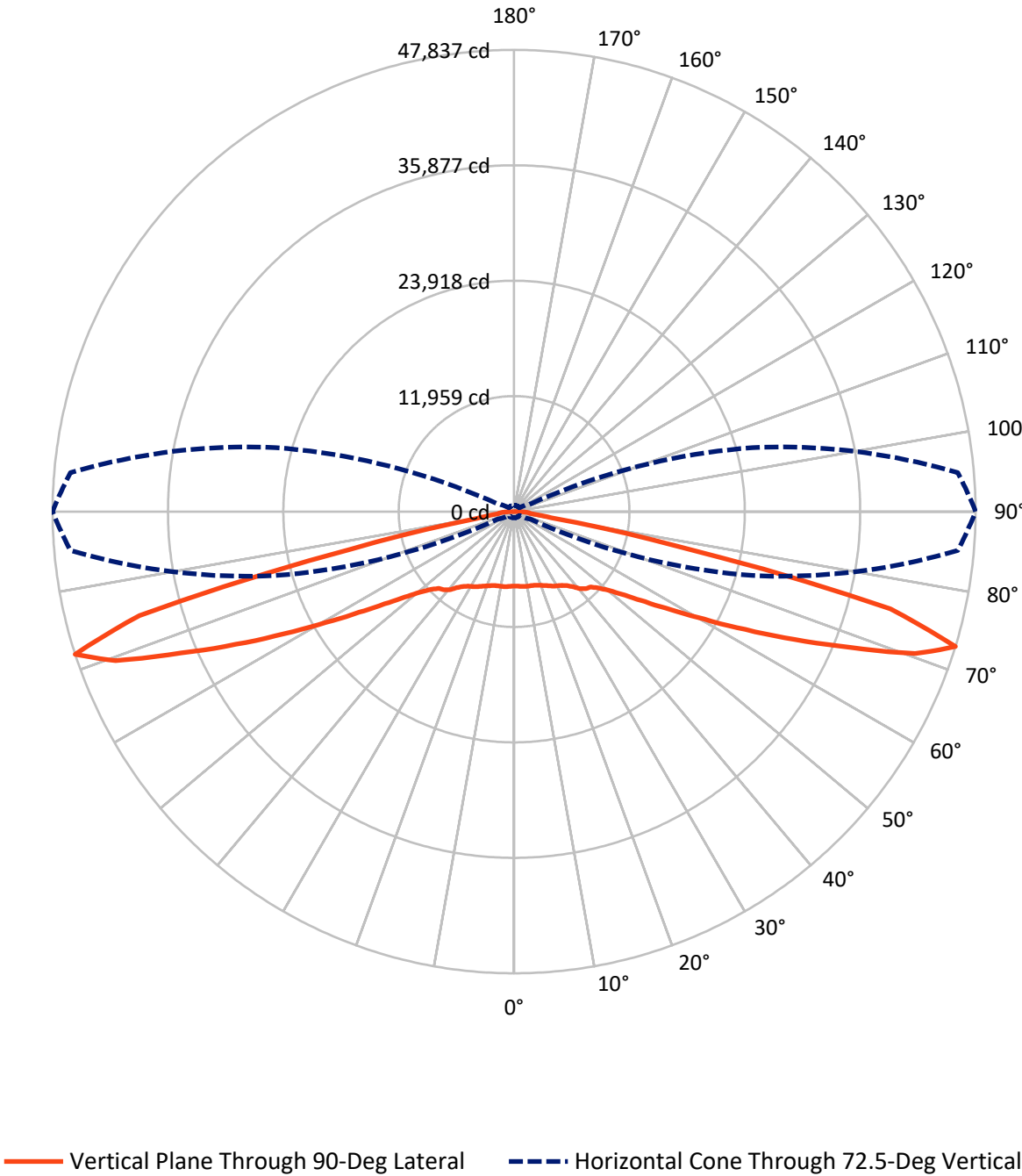
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
Type I - Short - N/A

REPORT NUMBER: P971045
CATALOG NUMBER: NAV-SB6C-830-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P971045

CATALOG NUMBER: NAV-SB6C-830-U-T1

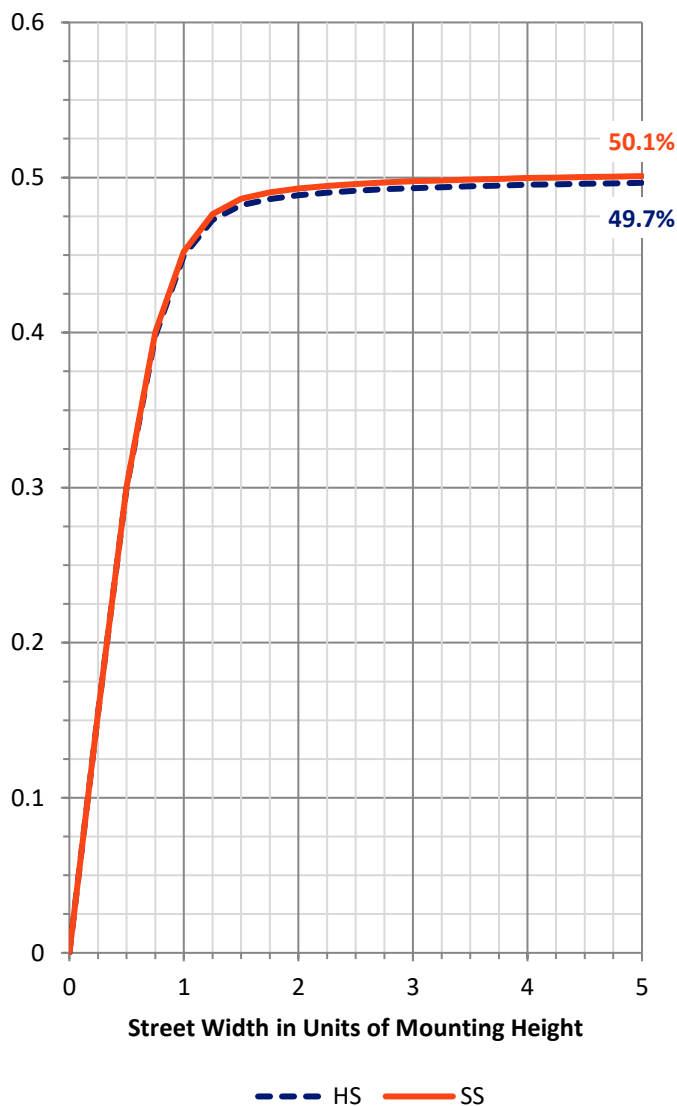
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20689.1	0.0	20689.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20689.1	0.0	20689.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	41378.2	0.0	41378.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	749.7	1.8
10°-20°	2292.3	5.5
20°-30°	3822.2	9.2
30°-40°	5256.7	12.7
40°-50°	6419.9	15.5
50°-60°	7425.3	17.9
60°-70°	8853.4	21.4
70°-80°	6179.1	14.9
80°-90°	379.5	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°	41378.2	100.0
0°-180°	41378.2	100.0

Coefficient of Utilization



REPORT NUMBER: P971045

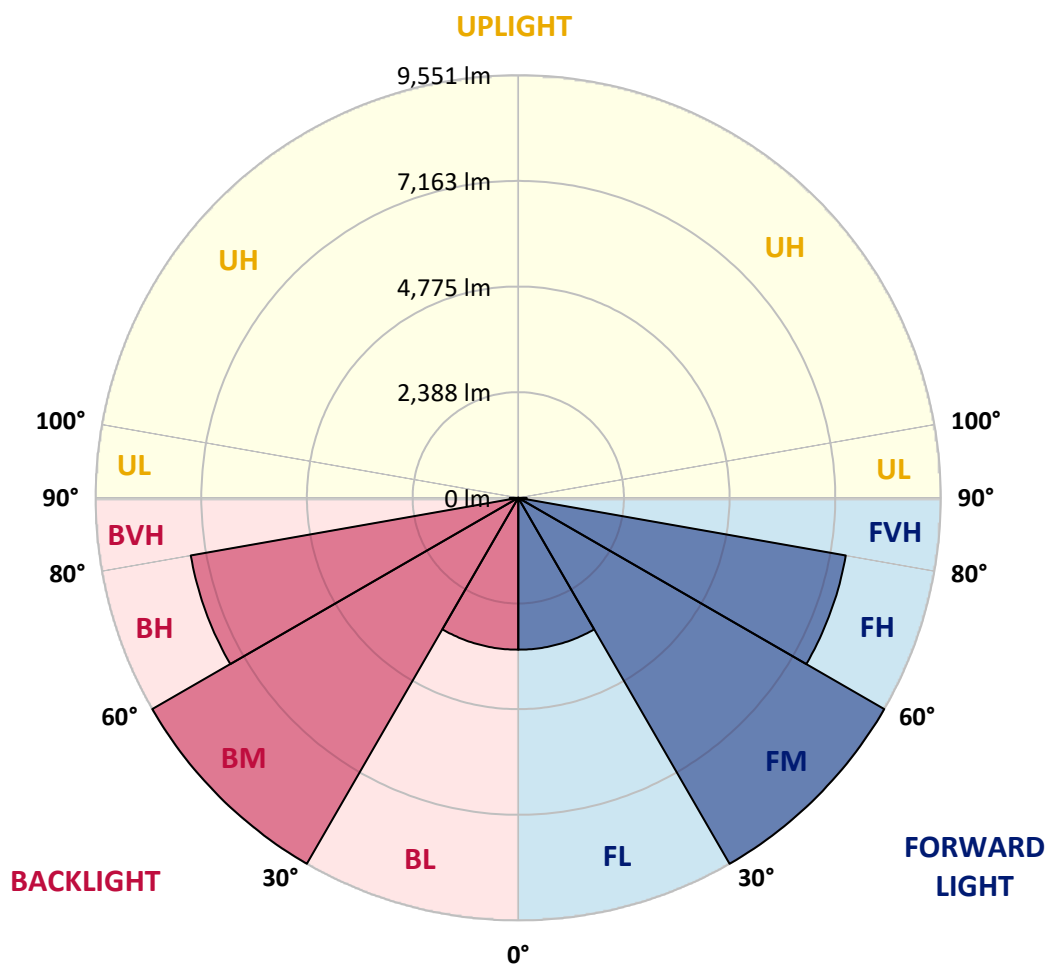
CATALOG NUMBER: NAV-SB6C-830-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3432.1	8.3			
FM	(30°-60°)	9551.0	23.1			
FH	(60°-80°)	7516.3	18.2			G4/12000
FVH	(80°-90°)	189.8	0.5			G2/225
BL	(0°-30°)	3432.1	8.3	B4/5000		
BM	(30°-60°)	9551.0	23.1	B5		
BH	(60°-80°)	7516.3	18.2	B5		G5
BVH	(80°-90°)	189.8	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short



REPORT NUMBER: P971045

CATALOG NUMBER: NAV-SB6C-830-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7732.0	7732.0	7732.0	7732.0	7732.0	7732.0	7732.0	7732.0	7732.0	7732.0	7732.0
2.5°	7738.5	7747.4	7747.4	7740.8	7756.2	7743.0	7743.0	7736.4	7743.0	7736.4	7736.4
5°	7778.1	7789.2	7793.5	7791.3	7811.1	7800.1	7800.1	7791.3	7793.5	7786.9	7786.9
7.5°	7852.9	7868.3	7877.1	7888.1	7916.7	7903.5	7894.7	7868.3	7857.3	7839.7	7839.7
10°	7877.1	7894.7	7923.2	7980.4	8046.5	8048.6	8022.3	7956.3	7905.7	7866.1	7859.5
12.5°	7802.3	7826.5	7885.9	8002.5	8149.8	8209.1	8167.4	8057.4	7958.5	7888.1	7877.1
15°	7707.8	7734.1	7824.3	8000.2	8217.9	8356.5	8352.1	8207.0	8048.6	7938.6	7921.1
17.5°	7560.4	7586.8	7716.6	7962.8	8270.7	8499.4	8561.0	8411.5	8189.3	8042.0	8017.9
20°	7294.3	7318.5	7498.9	7844.1	8288.4	8651.2	8811.7	8679.8	8402.6	8202.6	8165.2
22.5°	6949.1	6986.5	7197.6	7639.6	8246.5	8809.5	9097.6	9007.4	8651.2	8374.0	8323.5
25°	6579.7	6619.2	6865.6	7388.9	8138.8	8923.9	9436.3	9379.1	8932.7	8587.4	8517.0
27.5°	6260.8	6302.5	6570.9	7140.4	7971.6	8967.8	9770.5	9799.1	9273.5	8822.7	8748.0
30°	6010.1	6049.7	6335.5	6940.3	7756.2	8923.9	10062.9	10260.9	9621.0	9027.2	8919.4
32.5°	5735.2	5785.8	6087.1	6696.2	7501.1	8818.3	10318.1	10760.0	10023.4	9247.1	9110.8
35°	5387.7	5433.9	5750.6	6362.0	7166.8	8648.9	10531.4	11314.3	10599.5	9581.4	9429.7
37.5°	4965.5	5009.5	5324.0	5944.1	6834.7	8411.5	10694.1	11938.8	11285.7	10062.9	9860.7
40°	4541.1	4582.9	4877.6	5477.9	6436.7	8108.0	10751.3	12550.1	12073.0	10724.9	10509.4
42.5°	4151.9	4189.3	4459.8	5018.3	5990.3	7720.9	10676.5	13082.3	12778.9	11186.7	10909.6
45°	3793.4	3826.4	4066.1	4587.3	5526.3	7250.3	10452.2	13654.0	13618.9	11516.6	11142.8
47.5°	3384.3	3417.4	3665.9	4169.5	5062.3	6698.4	10071.8	14217.1	14786.6	12264.2	11833.2
50°	2885.2	2913.8	3168.9	3687.8	4580.7	6111.3	9544.0	14659.0	16260.0	13396.7	12855.9
52.5°	2293.6	2324.4	2573.0	3091.9	4008.9	5480.1	8849.1	14947.2	17962.1	15050.5	14384.1
55°	1706.5	1728.5	1944.0	2410.2	3300.8	4761.0	7978.3	15028.6	19892.9	17311.1	16477.7
57.5°	1238.1	1251.3	1389.8	1737.3	2502.5	3861.6	6920.5	14817.4	22190.9	20209.5	19160.5
60°	1002.8	1007.2	1049.0	1202.9	1739.4	2845.6	5642.8	14091.7	24684.7	23945.7	22624.1
62.5°	910.4	910.4	921.4	963.2	1176.5	1878.0	4096.9	12587.5	27358.7	28667.2	26896.9
65°	846.6	846.6	851.1	870.8	928.0	1196.3	2586.1	10137.8	29612.8	34197.9	31959.2
67.5°	789.5	791.7	789.5	796.0	829.0	884.1	1499.8	7001.9	30826.7	39928.7	37511.8
70°	730.1	734.5	723.5	723.5	749.9	752.0	939.0	3839.5	29819.5	44731.4	44095.9
72.5°	659.7	666.4	648.7	644.3	664.1	655.3	705.9	1842.8	25601.6	46165.3	47836.5
75°	598.2	606.9	567.3	556.4	556.4	549.8	574.0	945.6	16616.3	37659.2	40280.6
77.5°	543.1	560.8	497.0	461.8	453.0	433.3	468.4	578.4	7268.0	17680.6	17313.4
80°	448.6	472.8	409.1	367.3	351.9	329.8	369.4	404.7	2161.7	4105.6	3932.0
82.5°	334.3	345.2	290.3	261.7	248.5	233.1	277.1	281.5	703.7	1453.6	1642.7
85°	213.3	217.7	178.1	154.0	147.3	140.7	175.9	154.0	268.2	1068.8	1552.6
87.5°	74.7	85.8	68.2	61.6	66.0	54.9	81.4	46.2	74.7	754.3	934.6
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)