

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: P970518

Luminaire Tested: **NAV-SB6B-830-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970518
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-SB6B-830-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 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: 31111.8 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

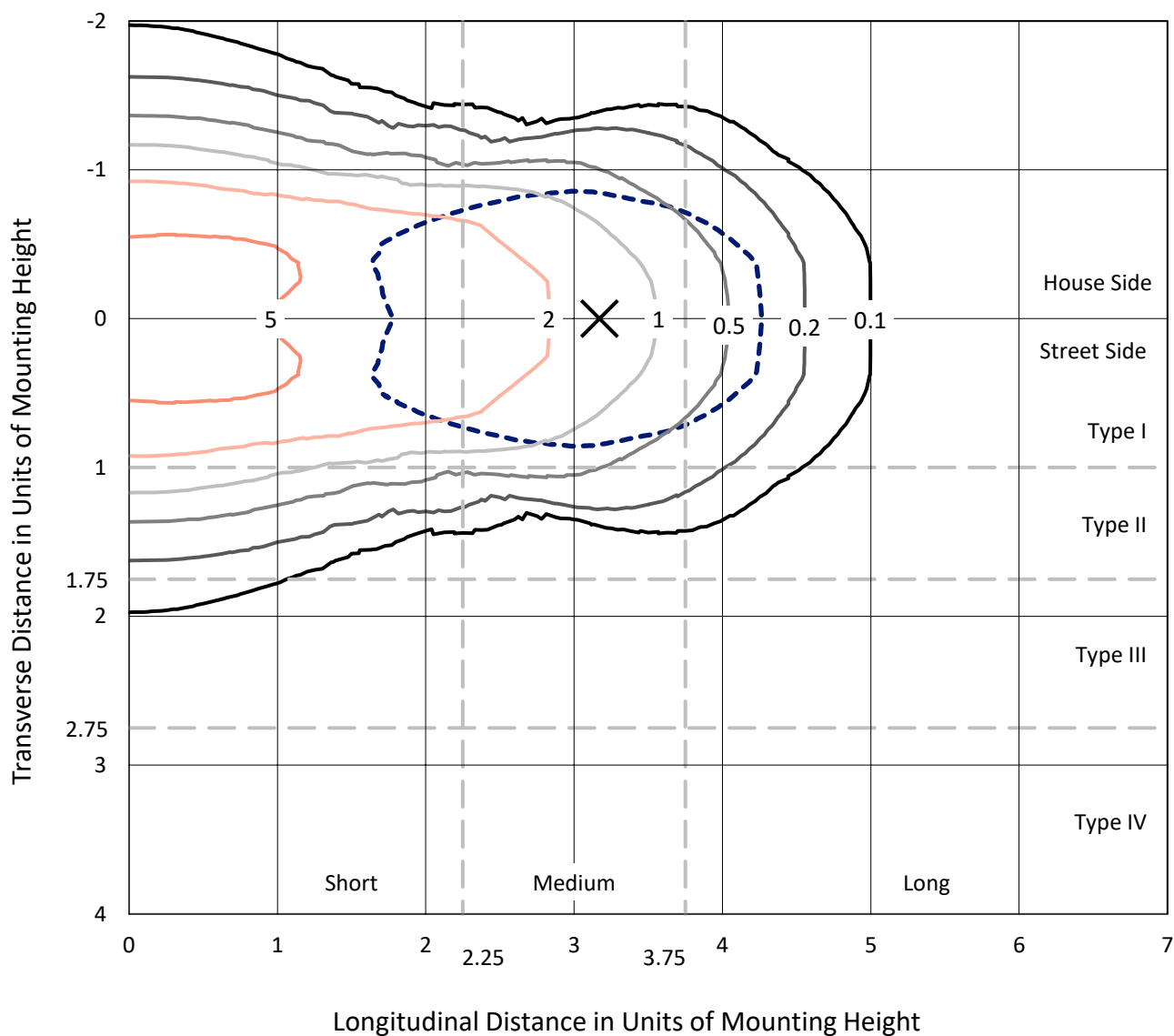
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P970518
CATALOG NUMBER: NAV-SB6B-830-U-T1

Iso-Footcandle Lines of Horizontal Illumination

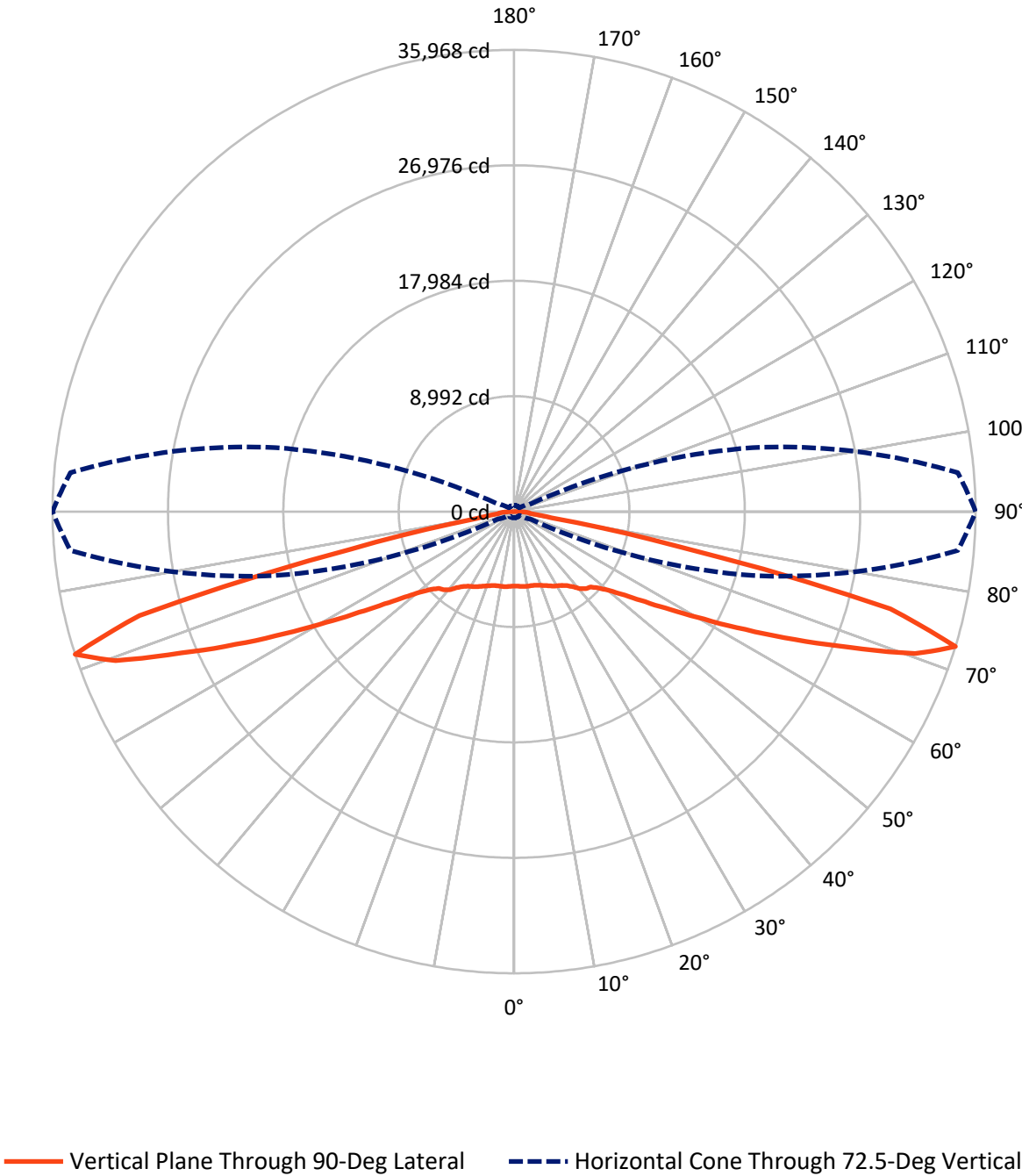
× Max cd
- - - 1/2 Max cd



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

REPORT NUMBER: P970518
CATALOG NUMBER: NAV-SB6B-830-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P970518

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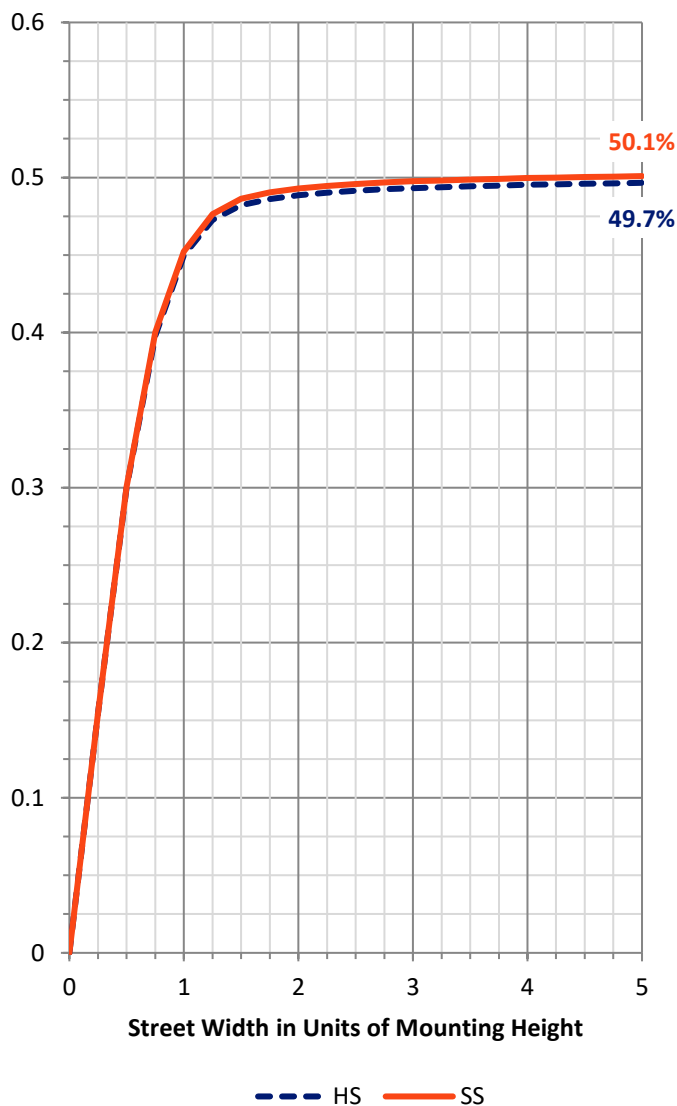
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15555.9	0.0	15555.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15555.9	0.0	15555.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	31111.8	0.0	31111.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.7	1.8
10°-20°	1723.6	5.5
20°-30°	2873.9	9.2
30°-40°	3952.5	12.7
40°-50°	4827.0	15.5
50°-60°	5583.0	17.9
60°-70°	6656.8	21.4
70°-80°	4646.0	14.9
80°-90°	285.4	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°	31111.8	100.0
0°-180°	31111.8	100.0

Coefficient of Utilization



REPORT NUMBER: P970518

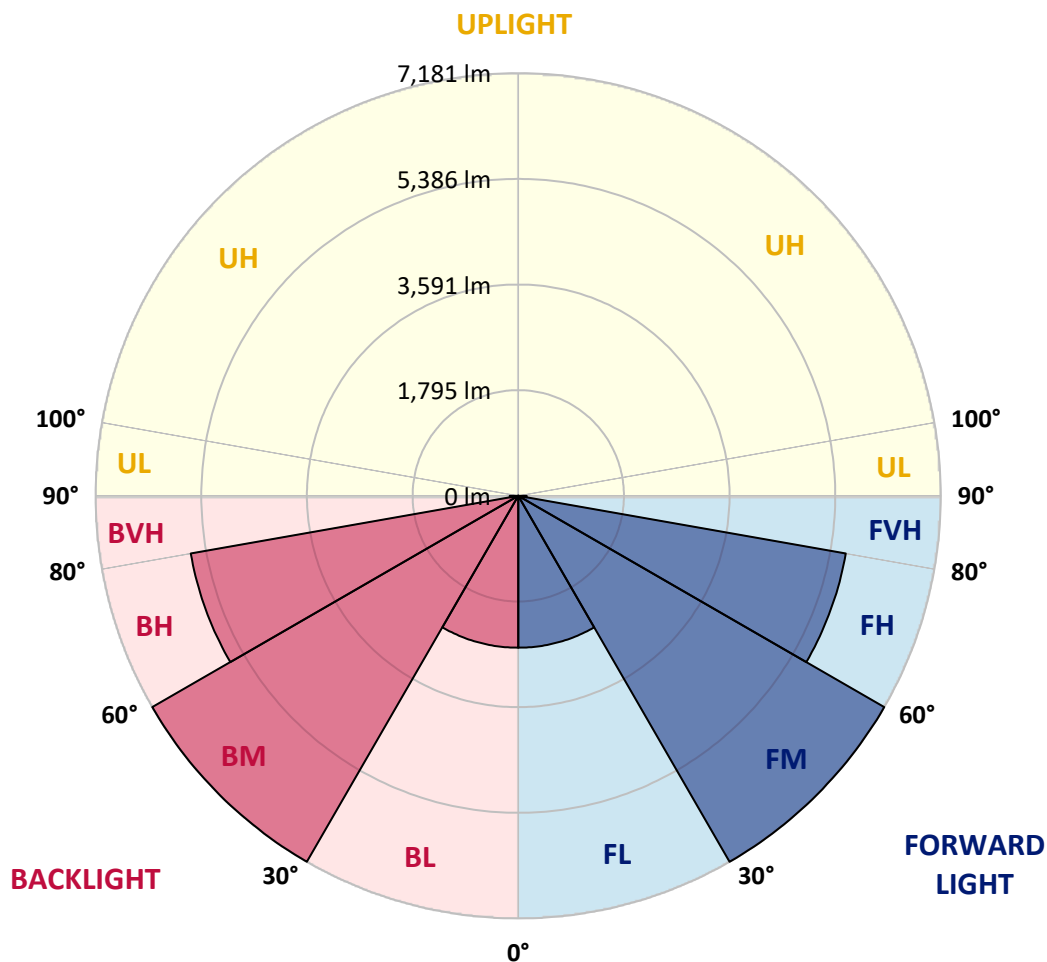
CATALOG NUMBER: NAV-SB6B-830-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2580.6	8.3			
FM	(30°-60°)	7181.3	23.1			
FH	(60°-80°)	5651.4	18.2			G3/7500
FVH	(80°-90°)	142.7	0.5			G2/225
BL	(0°-30°)	2580.6	8.3	B4/5000		
BM	(30°-60°)	7181.3	23.1	B4/8500		
BH	(60°-80°)	5651.4	18.2	B5		G5
BVH	(80°-90°)	142.7	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: P970518

CATALOG NUMBER: NAV-SB6B-830-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5813.6	5813.6	5813.6	5813.6	5813.6	5813.6	5813.6	5813.6	5813.6	5813.6	5813.6
2.5°	5818.5	5825.2	5825.2	5820.2	5831.7	5821.8	5821.8	5816.9	5821.8	5816.9	5816.9
5°	5848.3	5856.5	5859.8	5858.2	5873.1	5864.8	5864.8	5858.2	5859.8	5854.9	5854.9
7.5°	5904.5	5916.1	5922.7	5931.0	5952.5	5942.5	5936.0	5916.1	5907.8	5894.6	5894.6
10°	5922.7	5936.0	5957.4	6000.5	6050.1	6051.7	6031.8	5982.2	5944.2	5914.5	5909.4
12.5°	5866.5	5884.6	5929.3	6017.0	6127.8	6172.3	6141.0	6058.3	5983.8	5931.0	5922.7
15°	5795.3	5815.2	5883.0	6015.3	6179.0	6283.1	6279.9	6170.7	6051.7	5969.0	5955.8
17.5°	5684.6	5704.4	5802.0	5987.2	6218.7	6390.7	6436.9	6324.5	6157.5	6046.7	6028.5
20°	5484.6	5502.7	5638.3	5897.8	6231.9	6504.8	6625.4	6526.2	6317.9	6167.4	6139.3
22.5°	5224.9	5253.0	5411.8	5744.1	6200.5	6623.8	6840.3	6772.6	6504.8	6296.4	6258.3
25°	4947.2	4976.9	5162.1	5555.6	6119.5	6709.8	7095.0	7052.0	6716.3	6456.8	6403.9
27.5°	4707.4	4738.8	4940.5	5368.7	5993.8	6742.9	7346.4	7367.8	6972.7	6633.7	6577.4
30°	4518.9	4548.6	4763.6	5218.4	5831.7	6709.8	7566.2	7715.1	7233.9	6787.4	6706.5
32.5°	4312.3	4350.3	4576.8	5034.8	5640.0	6630.4	7758.0	8090.4	7536.5	6952.8	6850.3
35°	4051.0	4085.8	4323.8	4783.5	5388.6	6503.1	7918.4	8507.1	7969.7	7204.1	7090.0
37.5°	3733.6	3766.6	4003.0	4469.3	5138.9	6324.5	8040.8	8976.6	8485.6	7566.2	7414.1
40°	3414.4	3445.8	3667.3	4118.8	4839.6	6096.3	8083.8	9436.4	9077.5	8064.0	7901.9
42.5°	3121.7	3149.8	3353.2	3773.2	4504.1	5805.3	8027.6	9836.4	9608.2	8411.2	8202.9
45°	2852.3	2877.1	3057.3	3449.1	4155.1	5451.5	7858.9	10266.3	10239.9	8659.2	8378.0
47.5°	2544.7	2569.5	2756.3	3135.0	3806.2	5036.4	7572.9	10689.6	11117.9	9221.3	8897.3
50°	2169.3	2190.8	2382.6	2772.8	3444.2	4595.0	7176.0	11021.9	12225.7	10072.9	9666.2
52.5°	1724.6	1747.7	1934.6	2324.8	3014.2	4120.4	6653.6	11238.6	13505.5	11316.3	10815.3
55°	1283.1	1299.6	1461.6	1812.2	2481.8	3579.7	5998.7	11299.8	14957.2	13016.1	12389.4
57.5°	930.9	940.8	1045.0	1306.3	1881.6	2903.5	5203.4	11141.0	16685.1	15195.3	14406.6
60°	754.0	757.3	788.7	904.5	1307.9	2139.6	4242.8	10595.4	18560.1	18004.5	17010.8
62.5°	684.5	684.5	692.8	724.3	884.6	1412.0	3080.4	9464.4	20570.7	21554.5	20223.5
65°	636.6	636.6	639.9	654.8	697.7	899.4	1944.4	7622.4	22265.6	25712.9	24029.8
67.5°	593.6	595.2	593.6	598.6	623.4	664.7	1127.7	5264.6	23178.2	30021.9	28204.7
70°	549.0	552.3	544.0	544.0	563.9	565.5	706.0	2886.9	22421.0	33633.1	33155.3
72.5°	496.0	501.0	487.8	484.4	499.4	492.7	530.7	1385.6	19249.6	34711.1	35967.8
75°	449.8	456.3	426.6	418.3	418.3	413.4	431.5	710.9	12493.5	28315.5	30286.5
77.5°	408.4	421.6	373.7	347.3	340.6	325.7	352.2	434.9	5464.7	13293.8	13017.7
80°	337.3	355.5	307.5	276.1	264.6	248.0	277.8	304.2	1625.3	3087.0	2956.4
82.5°	251.3	259.6	218.2	196.8	186.9	175.3	208.4	211.7	529.1	1093.0	1235.1
85°	160.4	163.7	134.0	115.7	110.8	105.8	132.3	115.7	201.7	803.6	1167.4
87.5°	56.2	64.5	51.2	46.3	49.6	41.3	61.2	34.7	56.2	567.1	702.7
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)