

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: P965109

Luminaire Tested: **NAV-SB3D-740-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3D-740-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34695.2 lumens
Efficiency: N/A
Efficacy: 159.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

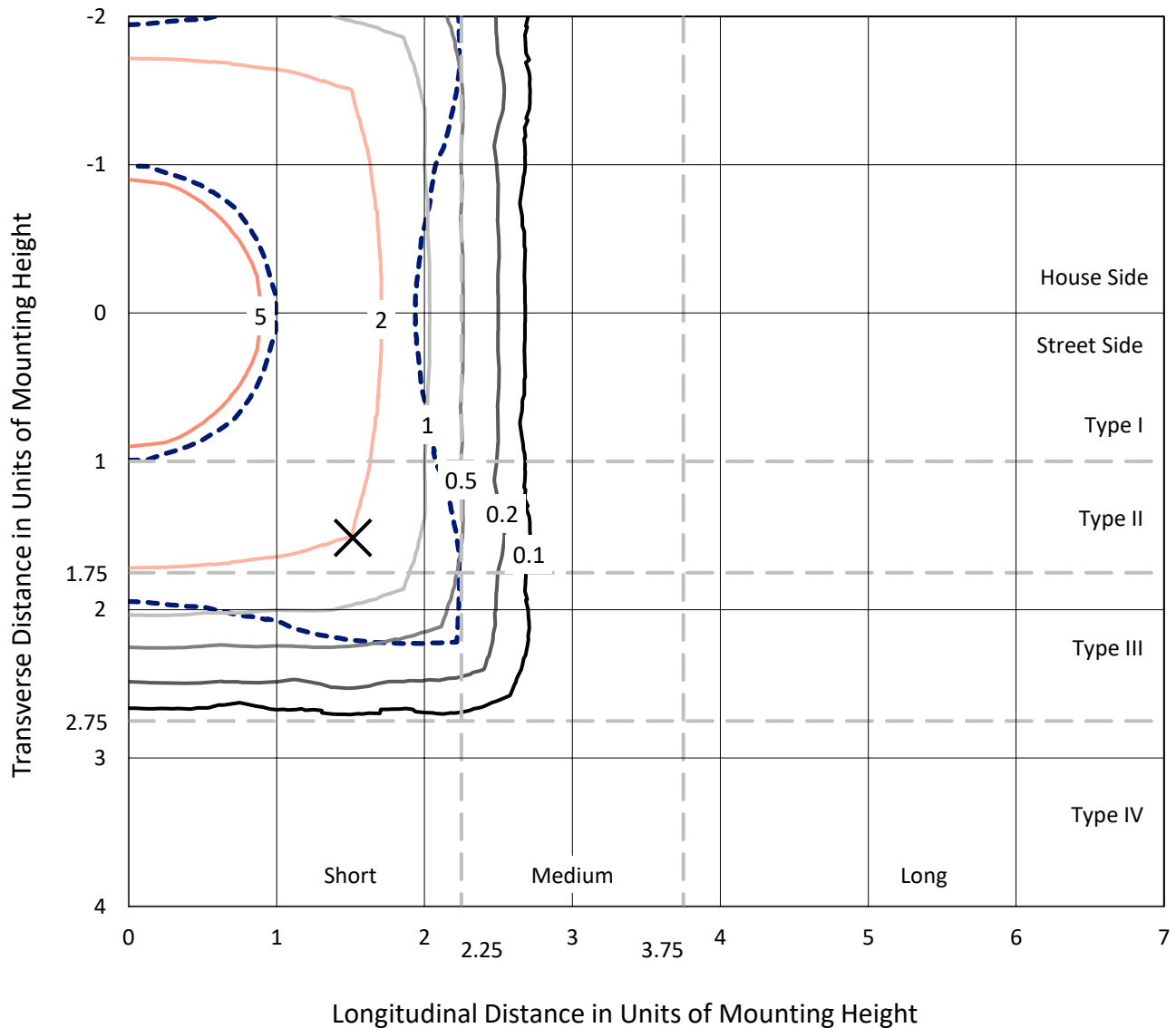
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P965109
CATALOG NUMBER: NAV-SB3D-740-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

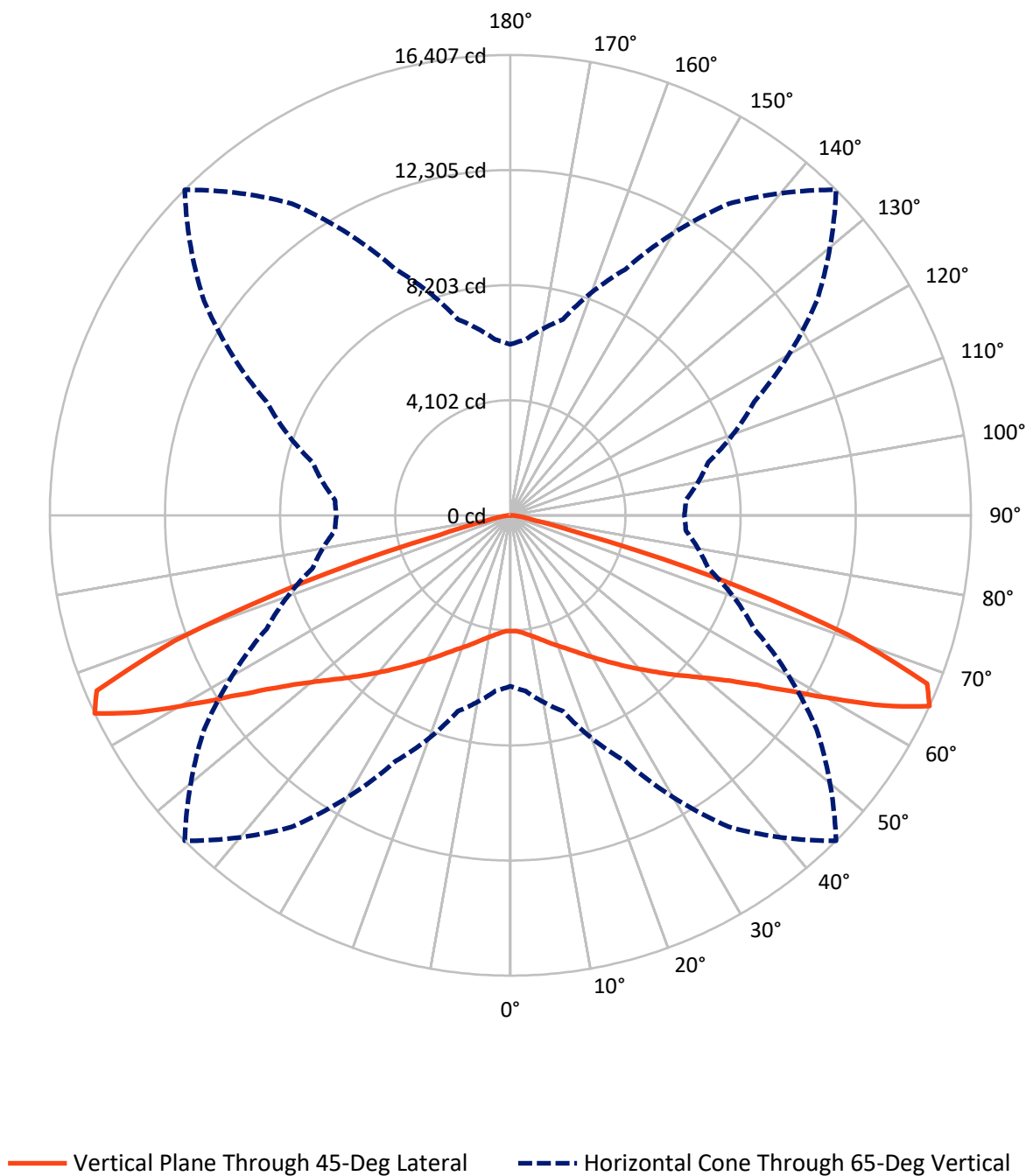
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
Type V - Short - N/A

REPORT NUMBER: P965109
CATALOG NUMBER: NAV-SB3D-740-U-5NQ

Luminous Intensity Polar Plot



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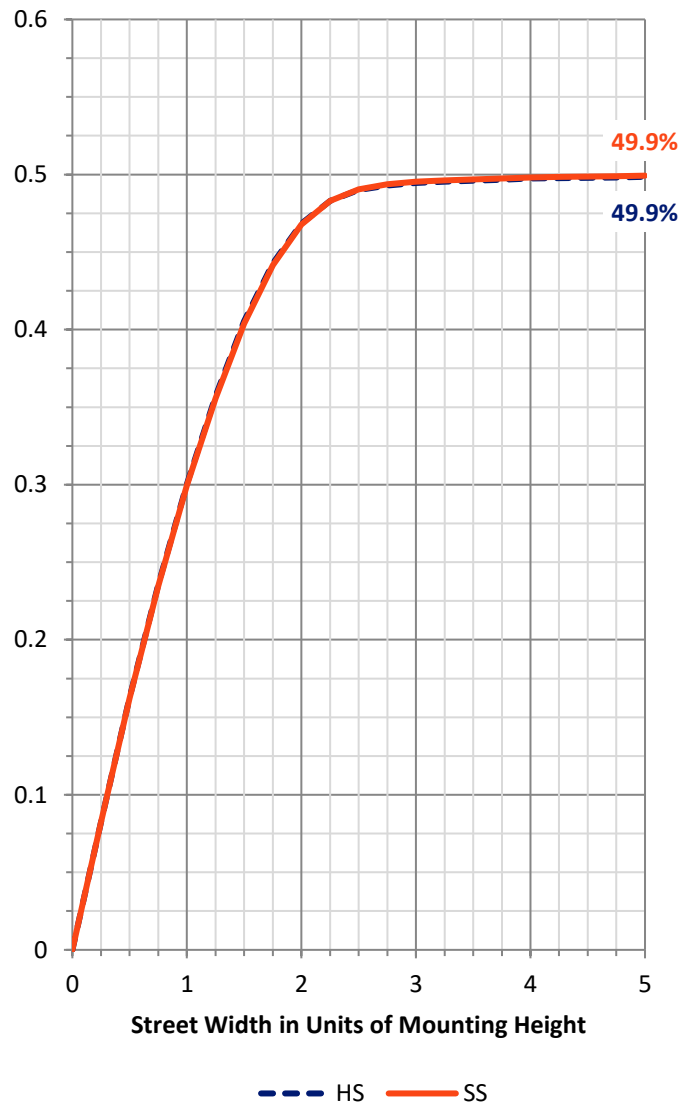
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17347.6	0.0	17347.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17347.6	0.0	17347.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	34695.2	0.0	34695.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.5	1.2
10°-20°	1329.7	3.8
20°-30°	2510.6	7.2
30°-40°	4111.1	11.8
40°-50°	6374.2	18.4
50°-60°	9416.1	27.1
60°-70°	8963.3	25.8
70°-80°	1446.3	4.2
80°-90°	136.4	0.4
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°	34695.2	100.0
0°-180°	34695.2	100.0

Coefficient of Utilization



REPORT NUMBER: P965109

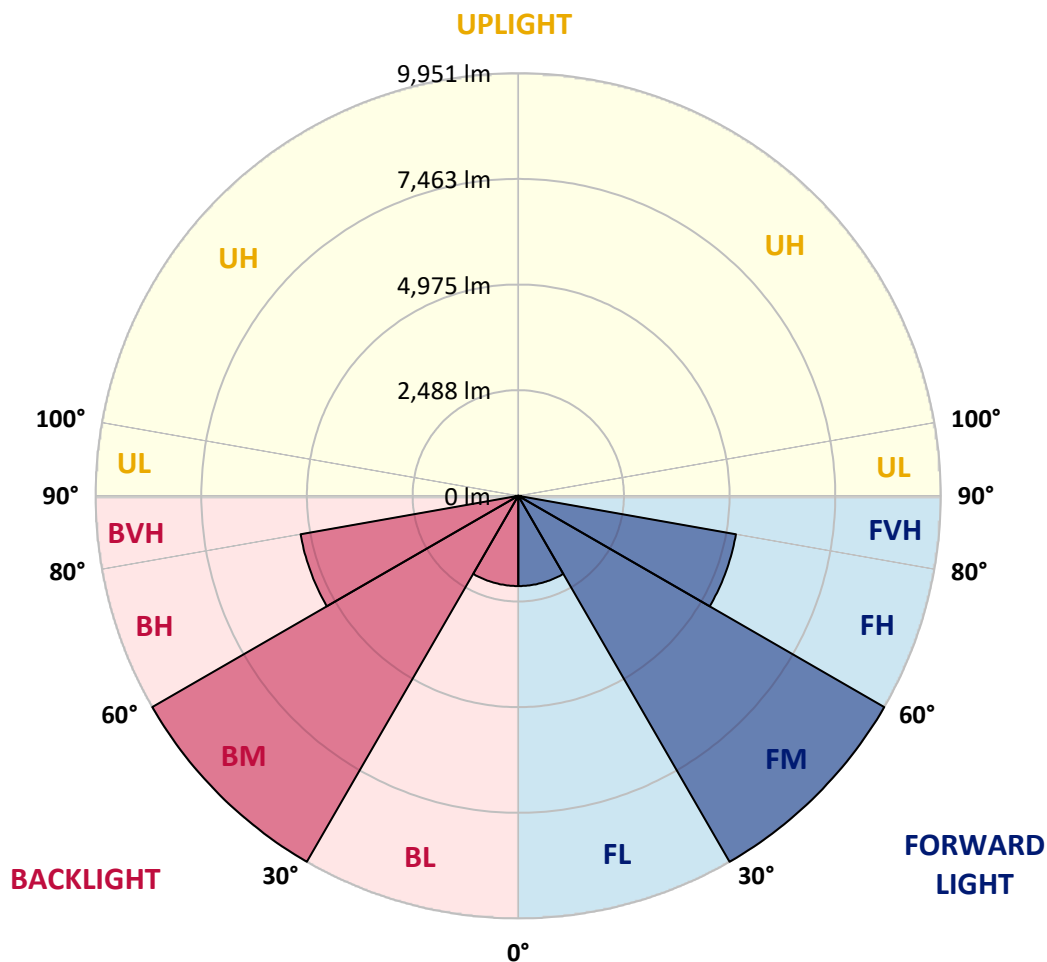
CATALOG NUMBER: NAV-SB3D-740-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2123.9	6.1			
FM	(30°-60°)	9950.7	28.7			
FH	(60°-80°)	5204.8	15.0			G3/7500
FVH	(80°-90°)	68.2	0.2			G1/100
BL	(0°-30°)	2123.9	6.1	B3/2500		
BM	(30°-60°)	9950.7	28.7	B5		
BH	(60°-80°)	5204.8	15.0	B5		G3/7500
BVH	(80°-90°)	68.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



REPORT NUMBER: P965109

CATALOG NUMBER: NAV-SB3D-740-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4129.1	4129.1	4129.1	4129.1	4129.1	4129.1	4129.1	4129.1	4129.1	4129.1	4129.1
2.5°	4156.9	4143.0	4153.4	4144.8	4137.8	4130.9	4134.3	4146.5	4151.7	4153.4	4153.4
5°	4212.6	4200.4	4205.7	4205.7	4193.5	4190.0	4191.7	4200.4	4210.9	4210.9	4210.9
7.5°	4303.2	4291.0	4303.2	4296.2	4285.7	4282.2	4280.5	4287.5	4303.2	4303.2	4297.9
10°	4412.8	4398.9	4405.9	4402.4	4390.2	4385.0	4383.2	4393.7	4407.6	4405.9	4402.4
12.5°	4533.0	4517.3	4526.0	4515.5	4512.0	4506.8	4506.8	4505.1	4513.8	4506.8	4510.3
15°	4666.9	4656.6	4660.1	4653.1	4658.3	4654.8	4640.9	4633.9	4637.4	4627.0	4628.7
17.5°	4825.4	4801.0	4813.2	4809.7	4809.7	4816.7	4794.0	4785.3	4792.3	4781.8	4790.5
20°	5008.2	4983.8	4989.0	4982.0	4973.3	4980.3	4952.5	4959.5	4964.7	4957.7	4973.3
22.5°	5208.3	5177.0	5175.2	5178.7	5159.6	5161.4	5142.2	5159.6	5170.1	5150.9	5170.1
25°	5413.7	5380.6	5403.3	5394.6	5370.3	5375.5	5361.6	5378.9	5387.6	5363.3	5391.1
27.5°	5631.3	5608.7	5629.6	5634.8	5605.2	5626.1	5605.2	5620.9	5629.6	5593.0	5620.9
30°	5885.5	5862.9	5882.1	5895.9	5861.2	5894.2	5876.8	5887.3	5889.0	5845.5	5871.6
32.5°	6162.3	6127.4	6176.2	6183.2	6144.9	6185.0	6162.3	6176.2	6185.0	6125.7	6165.8
35°	6500.0	6456.5	6512.1	6503.5	6470.4	6503.5	6482.6	6503.5	6524.3	6453.0	6496.6
37.5°	6863.8	6818.5	6877.7	6862.1	6830.7	6853.4	6841.2	6855.1	6888.2	6811.6	6858.6
40°	7264.2	7208.5	7288.6	7260.7	7231.1	7227.6	7234.6	7243.3	7286.8	7201.5	7229.3
42.5°	7692.4	7633.2	7753.3	7709.8	7668.0	7640.1	7662.8	7680.2	7722.0	7626.3	7676.7
45°	8181.6	8113.7	8270.3	8218.1	8151.9	8094.5	8131.1	8157.2	8218.1	8103.2	8162.4
47.5°	8721.2	8644.6	8811.7	8796.0	8688.1	8562.7	8646.4	8721.2	8766.4	8627.2	8674.2
50°	9248.7	9189.4	9408.8	9427.9	9295.6	9119.8	9236.5	9349.6	9361.8	9179.0	9201.6
52.5°	9743.0	9683.8	10002.4	10122.5	10004.1	9795.2	9918.8	10033.7	9941.5	9704.7	9711.7
55°	10138.2	10089.5	10495.1	10804.9	10844.9	10672.6	10745.7	10742.2	10439.3	10075.5	10087.7
57.5°	10233.9	10226.9	10738.7	11395.0	11812.8	11833.6	11689.2	11320.2	10667.4	10178.2	10146.9
60°	9798.7	9842.3	10545.5	11703.1	12817.2	13280.2	12655.3	11602.2	10408.0	9729.1	9649.0
62.5°	8496.6	8611.5	9459.3	11327.1	13628.4	14944.4	13430.0	11173.9	9342.7	8456.6	8404.4
65°	6089.2	6289.4	7225.8	9666.5	13555.3	16406.7	13318.5	9588.1	7295.5	6273.7	6198.8
67.5°	2762.6	2966.2	3761.7	6618.3	11783.2	16009.8	11755.3	6688.0	3949.7	2976.7	2933.1
70°	1000.9	1035.8	1291.6	2649.4	7530.5	12756.2	7852.5	2668.6	1373.5	1103.6	1089.7
72.5°	605.8	611.0	665.0	948.7	2616.3	7744.6	2727.7	980.0	678.9	602.3	612.7
75°	384.7	381.2	473.4	579.6	927.8	2612.8	973.1	579.6	471.7	430.0	433.5
77.5°	276.8	285.5	339.5	433.5	584.9	886.0	574.4	414.3	339.5	278.5	283.7
80°	207.2	212.4	247.2	337.7	410.8	551.9	365.5	306.4	255.9	174.0	179.3
82.5°	149.8	149.8	161.8	245.5	250.7	297.7	198.4	215.9	168.8	123.6	123.6
85°	88.8	87.0	101.0	146.3	130.6	109.7	90.5	132.3	106.2	76.6	74.8
87.5°	31.4	33.1	31.4	41.8	34.8	29.6	27.9	36.6	29.6	26.1	24.4
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)