

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: P959313

Luminaire Tested: **NAV-SB1A-740-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959313
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-740-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

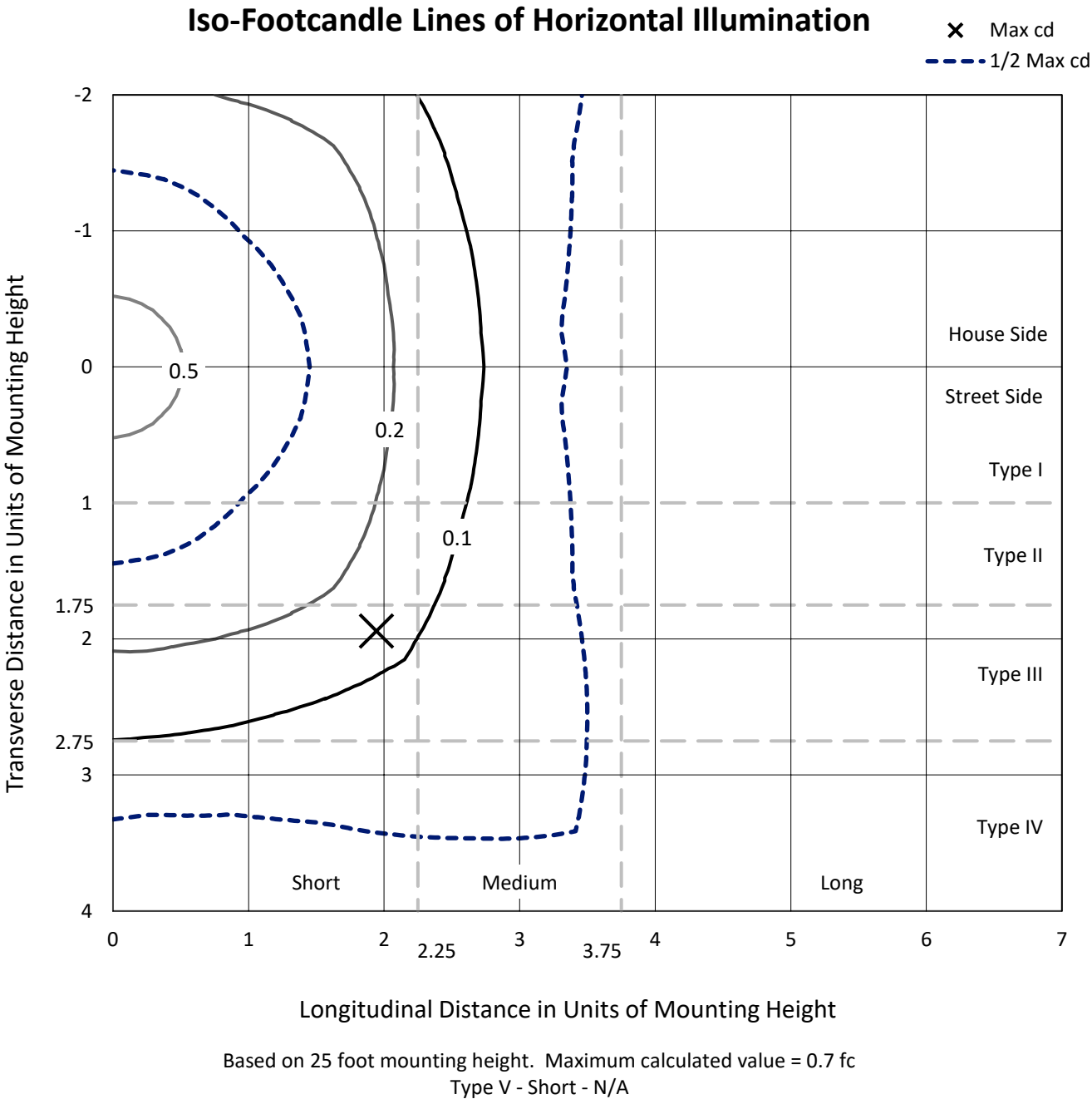
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4922 lumens
Efficiency: N/A
Efficacy: 159.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 30.9
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

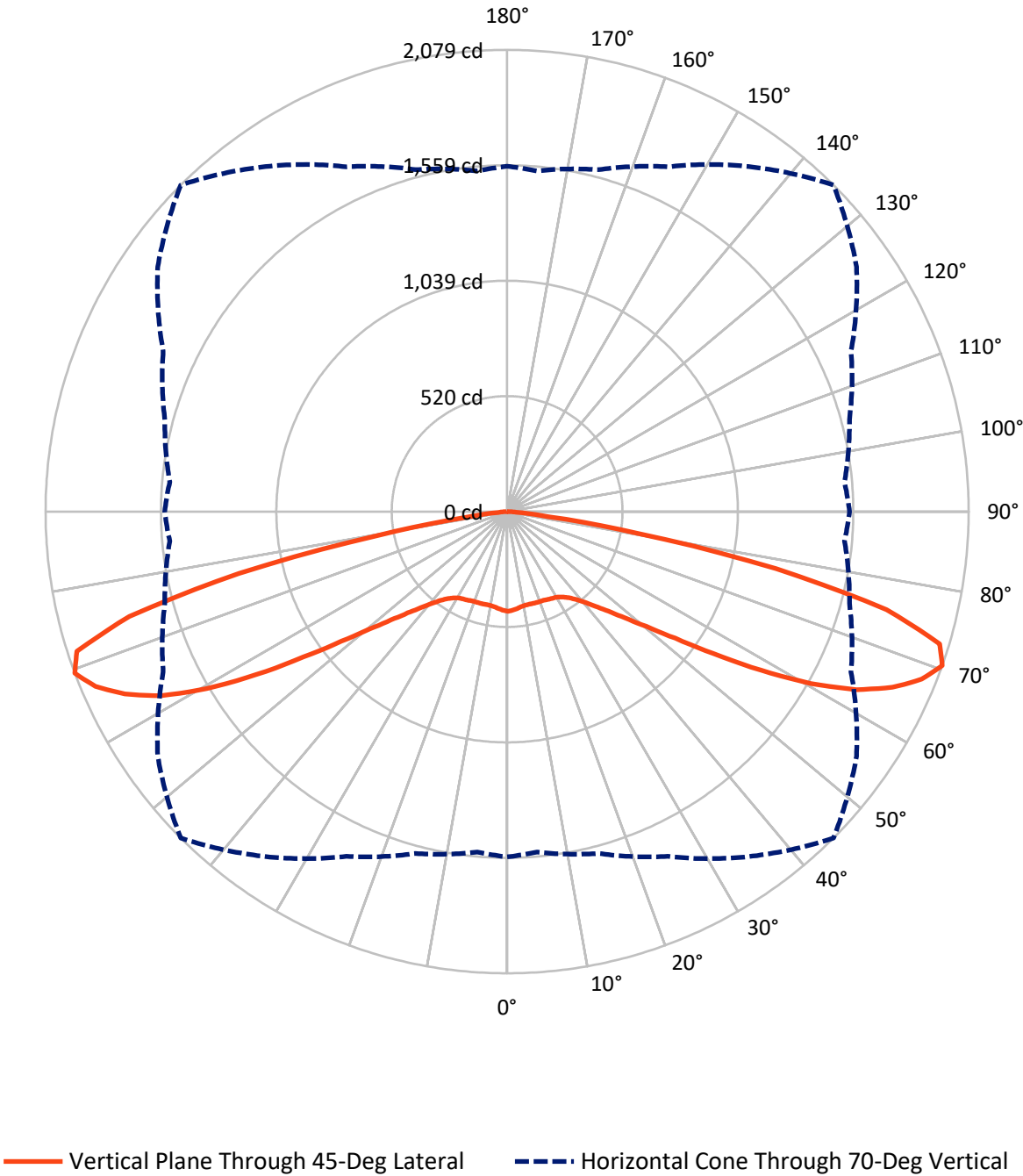


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Luminous Intensity Polar Plot



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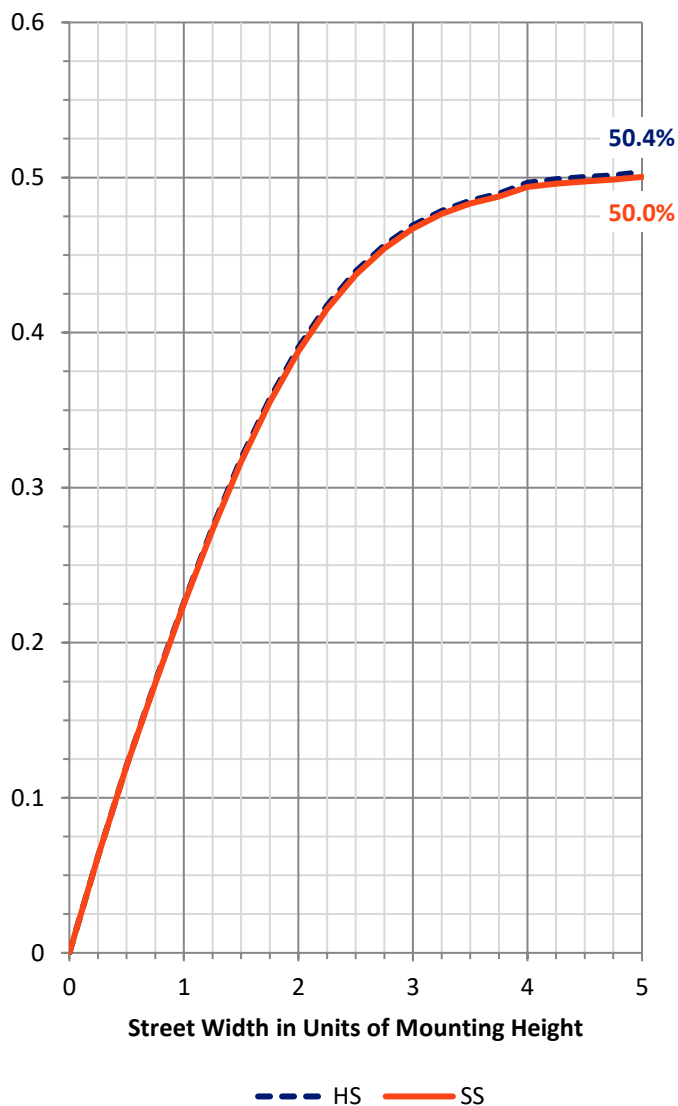
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2461.0	0.0	2461.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2461.0	0.0	2461.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4922.0	0.0	4922.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.8	0.8
10°-20°	122.6	2.5
20°-30°	204.1	4.1
30°-40°	308.6	6.3
40°-50°	512.9	10.4
50°-60°	967.8	19.7
60°-70°	1634.2	33.2
70°-80°	1073.8	21.8
80°-90°	56.3	1.1
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°	4922.0	100.0
0°-180°	4922.0	100.0

Coefficient of Utilization



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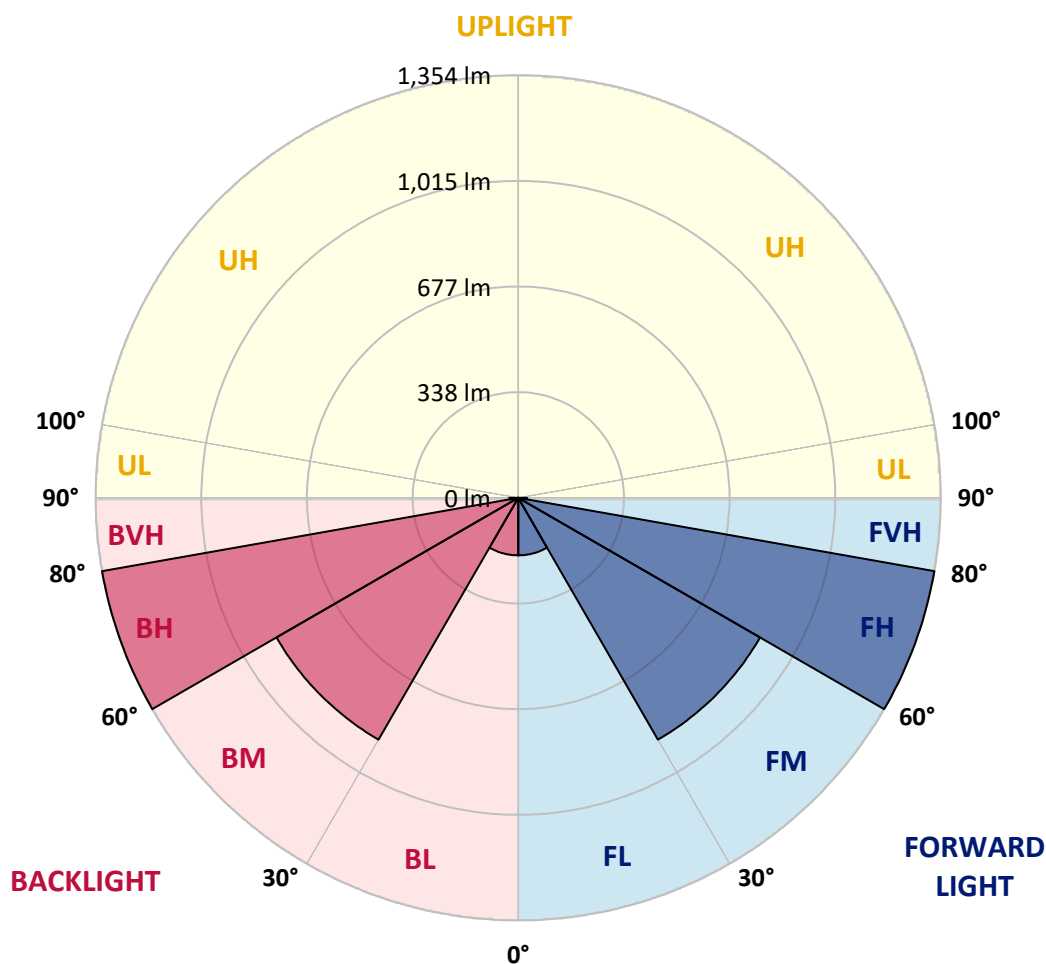
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	184.2	3.7			
FM	(30°-60°)	894.7	18.2			
FH	(60°-80°)	1354.0	27.5			G1/1800
FVH	(80°-90°)	28.1	0.6			G1/100
BL	(0°-30°)	184.2	3.7	B1/500		
BM	(30°-60°)	894.7	18.2	B1/1000		
BH	(60°-80°)	1354.0	27.5	B3/2500		G1/1800
BVH	(80°-90°)	28.1	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	449.0	449.0	449.0	449.0	449.0	449.0	449.0	449.0	449.0	449.0	449.0
2.5°	446.2	447.4	446.9	445.9	445.9	445.2	445.9	446.4	447.2	447.7	447.4
5°	440.3	441.4	441.1	440.3	440.5	439.8	440.3	441.1	441.6	441.9	441.9
7.5°	435.2	436.2	435.7	434.4	434.4	433.7	433.9	434.7	435.4	435.7	435.7
10°	433.9	434.9	433.4	431.3	430.6	429.6	429.8	430.6	432.1	432.9	432.9
12.5°	434.4	435.2	433.7	430.6	429.8	428.8	428.8	429.6	431.6	432.7	432.9
15°	435.9	436.8	434.4	431.1	430.3	429.6	429.3	430.3	432.7	434.4	434.7
17.5°	438.8	439.5	435.9	431.3	430.3	430.6	430.3	431.1	434.7	438.0	438.0
20°	441.4	441.9	437.0	431.3	430.3	430.6	430.3	431.8	436.4	441.1	441.4
22.5°	442.1	442.6	438.0	433.2	432.3	432.7	432.3	433.9	438.3	442.8	442.8
25°	442.3	443.1	439.5	435.7	437.0	437.5	437.0	437.3	440.5	444.6	444.3
27.5°	446.2	447.2	443.8	440.5	441.4	441.1	441.9	442.6	445.2	449.3	448.2
30°	454.1	454.9	452.0	448.7	448.2	446.4	448.7	451.3	454.1	457.7	456.9
32.5°	467.2	468.7	465.1	461.6	459.2	458.2	460.0	464.3	468.2	472.0	470.5
35°	488.9	489.9	486.6	479.9	475.8	475.8	477.3	483.0	489.1	494.0	492.2
37.5°	519.6	520.9	515.0	507.1	500.9	500.9	503.0	508.8	518.0	525.0	522.4
40°	557.0	558.7	551.3	543.1	537.2	536.3	538.7	545.4	554.1	562.8	560.1
42.5°	602.0	604.0	594.3	587.1	582.5	582.5	583.8	590.0	597.9	608.6	607.8
45°	659.6	663.2	649.8	642.7	638.3	639.3	640.1	645.4	652.6	664.9	664.4
47.5°	728.1	731.6	717.6	710.2	709.4	714.3	711.2	715.0	718.9	733.0	728.9
50°	805.9	812.0	802.3	801.8	803.3	812.3	805.1	807.2	802.8	811.8	806.4
52.5°	901.1	910.0	908.3	911.3	928.4	946.9	930.5	923.3	906.9	909.8	900.3
55°	1016.4	1030.0	1032.6	1050.9	1089.9	1127.5	1092.6	1063.7	1029.0	1022.5	1012.6
57.5°	1147.7	1158.5	1170.7	1208.3	1280.9	1347.8	1280.9	1217.0	1162.2	1149.2	1140.0
60°	1288.9	1302.2	1313.9	1369.5	1477.4	1571.3	1475.4	1373.8	1301.4	1283.8	1268.4
62.5°	1440.6	1457.8	1466.0	1527.6	1653.4	1765.6	1655.3	1532.2	1451.9	1432.9	1417.6
65°	1586.2	1600.2	1609.5	1675.2	1795.5	1907.7	1803.6	1682.3	1599.7	1574.9	1562.6
67.5°	1653.9	1661.6	1684.2	1758.6	1885.5	2013.7	1907.0	1766.6	1674.1	1630.7	1631.2
70°	1554.7	1539.1	1593.4	1712.6	1896.2	2078.7	1920.8	1709.0	1595.9	1525.3	1542.2
72.5°	1201.4	1174.5	1268.6	1472.6	1773.5	2037.2	1785.8	1484.1	1327.3	1184.0	1219.5
75°	653.6	623.2	753.2	1011.1	1414.3	1765.8	1446.8	1040.0	838.7	648.8	691.1
77.5°	184.5	172.9	277.9	489.1	850.6	1239.7	883.4	499.9	329.5	195.5	217.2
80°	56.6	54.7	74.2	147.4	361.2	593.8	347.2	149.1	94.4	59.7	62.9
82.5°	33.5	30.7	36.8	53.7	92.1	186.5	89.6	56.1	45.0	30.2	32.7
85°	19.2	17.9	21.7	26.1	31.0	39.7	25.8	26.6	24.1	16.1	16.9
87.5°	7.9	7.2	8.4	8.2	7.2	9.2	6.9	8.2	9.7	6.4	5.8
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)