

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: McGRAW-EDISON

Report Number: P821309

Luminaire Tested: **TT-D4-740-24VDC-CQ**

Issue Date: 2/18/2020



Test Information

Test Method: LM-79-08
Report Number: P821309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1908-473-17)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/18/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D4-740-24VDC-CQ
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
4000K, 70 CRI LEDS AND CONCENTRATED DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

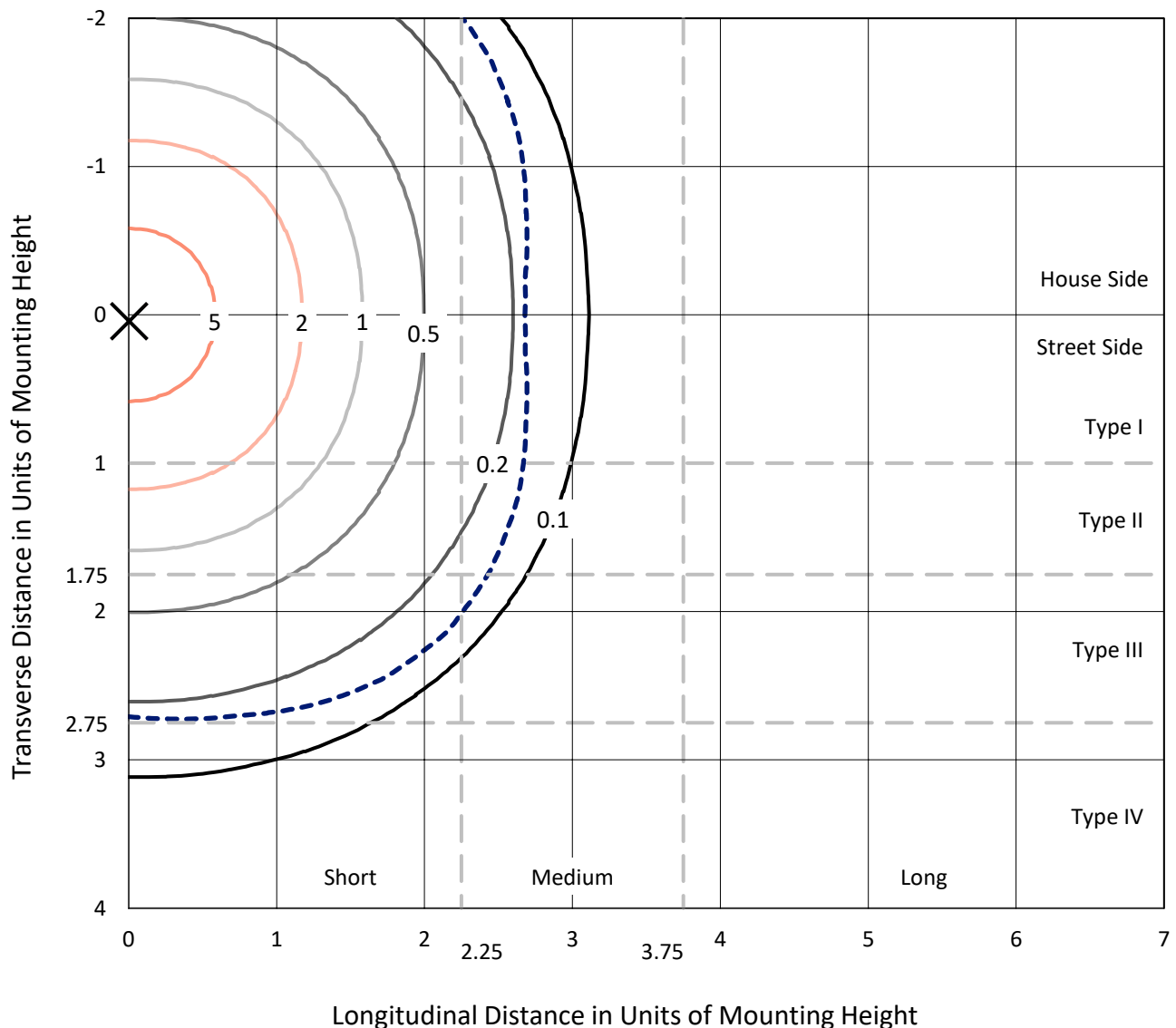
Lumens per Lamp: N/A
Luminaire Lumens: 7480 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 57
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: 25 FT

REPORT NUMBER: P821309
 CATALOG NUMBER: TT-D4-740-24VDC-CQ

Iso-Footcandle Lines of Horizontal Illumination

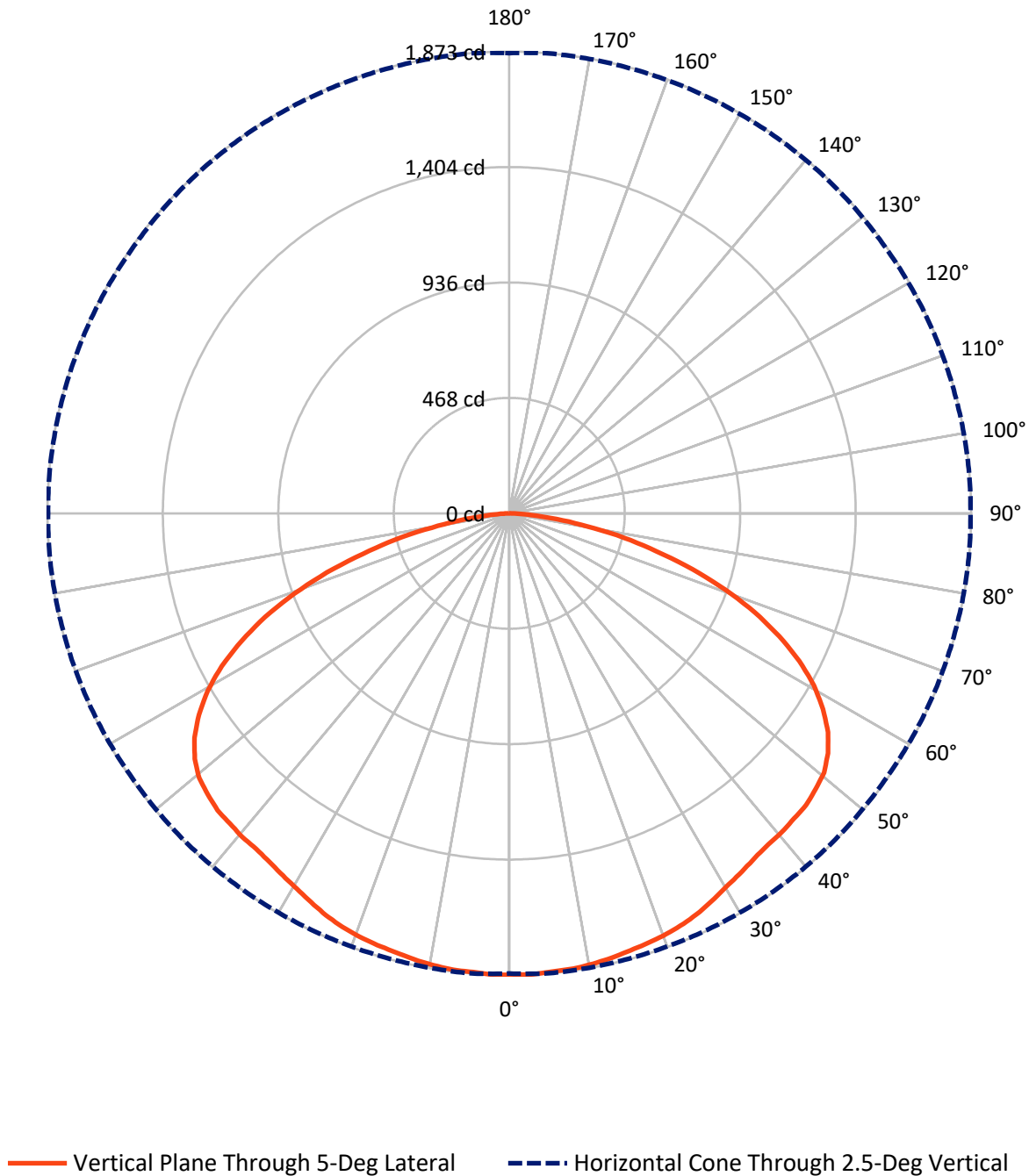
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.3 fc
 Type V - Short - N/A

REPORT NUMBER: P821309
CATALOG NUMBER: TT-D4-740-24VDC-CQ

Luminous Intensity Polar Plot



REPORT NUMBER: P821309

CATALOG NUMBER: TT-D4-740-24VDC-CQ

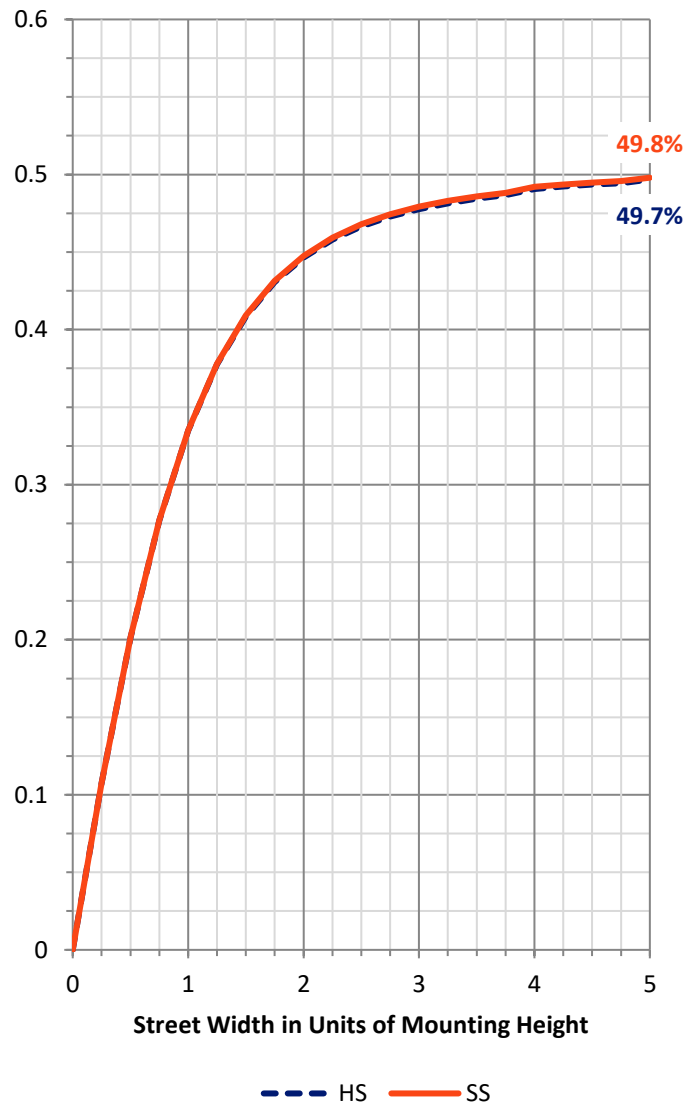
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3740.0	0.0	3740.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3740.0	0.0	3740.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7480.0	0.0	7480.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.0	2.4
10°-20°	521.2	7.0
20°-30°	828.9	11.1
30°-40°	1090.4	14.6
40°-50°	1334.6	17.8
50°-60°	1445.5	19.3
60°-70°	1243.6	16.6
70°-80°	699.1	9.3
80°-90°	138.6	1.9
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°	7480.0	100.0
0°-180°	7480.0	100.0



REPORT NUMBER: P821309

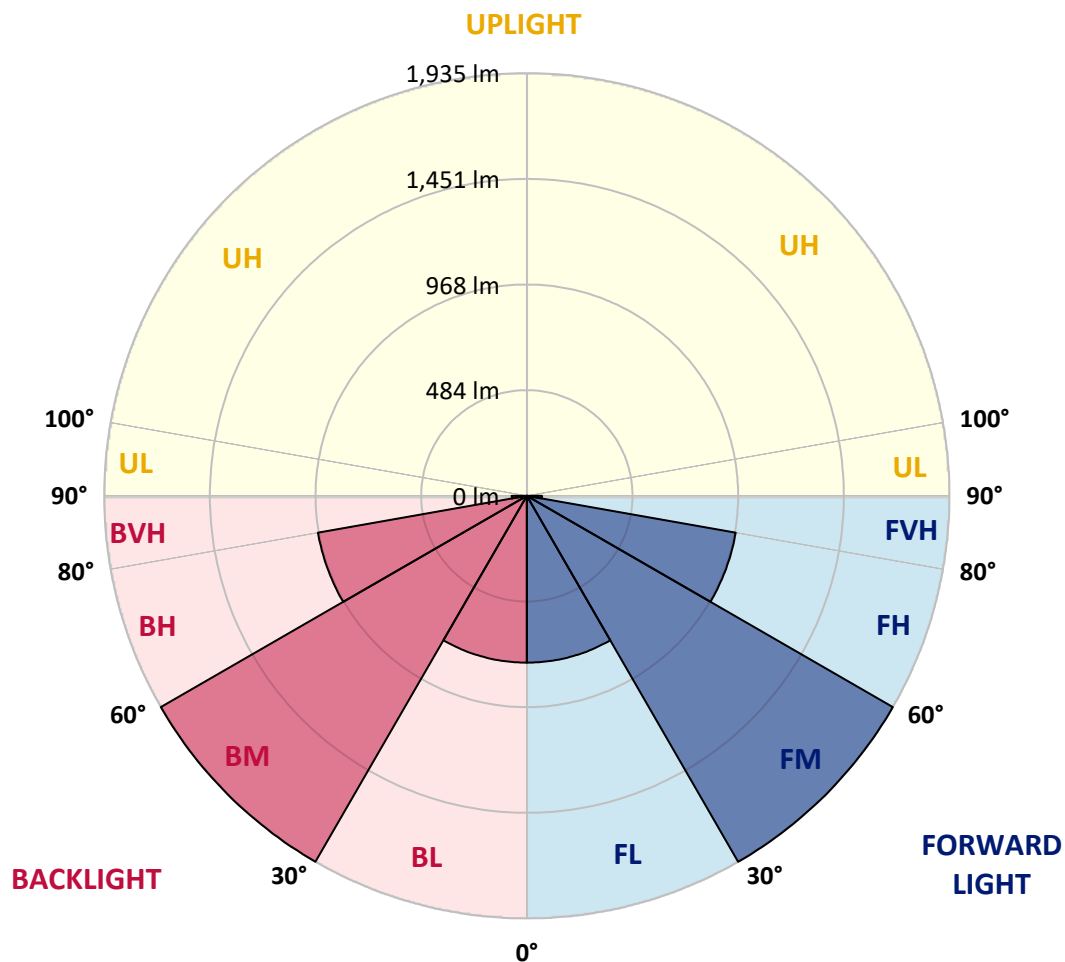
CATALOG NUMBER: TT-D4-740-24VDC-CQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	764.1	10.2			
FM	(30°-60°)	1935.3	25.9			
FH	(60°-80°)	971.4	13.0			G1/1800
FVH	(80°-90°)	69.3	0.9			G1/100
BL	(0°-30°)	764.1	10.2	B2/1000		
BM	(30°-60°)	1935.3	25.9	B2/2500		
BH	(60°-80°)	971.4	13.0	B2/1000		G1/1800
BVH	(80°-90°)	69.3	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short



REPORT NUMBER: P821309

CATALOG NUMBER: TT-D4-740-24VDC-CQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3
2.5°	1866.5	1872.5	1870.1	1870.1	1870.1	1870.1	1867.7	1870.1	1870.1	1871.3	1870.1
5°	1867.7	1866.5	1866.5	1867.7	1867.7	1868.9	1866.5	1867.7	1868.9	1868.9	1870.1
7.5°	1864.1	1865.3	1862.9	1865.3	1862.9	1864.1	1864.1	1865.3	1864.1	1865.3	1867.7
10°	1857.0	1858.2	1857.0	1857.0	1857.0	1859.4	1854.6	1858.2	1857.0	1858.2	1857.0
12.5°	1843.9	1849.9	1847.5	1849.9	1849.9	1849.9	1846.3	1848.7	1849.9	1849.9	1849.9
15°	1837.9	1839.1	1835.6	1840.3	1841.5	1842.7	1837.9	1840.3	1840.3	1841.5	1842.7
17.5°	1824.9	1830.8	1829.6	1833.2	1832.0	1835.6	1834.4	1833.2	1832.0	1834.4	1832.0
20°	1815.3	1821.3	1820.1	1823.7	1824.9	1828.4	1824.9	1824.9	1821.3	1822.5	1826.0
22.5°	1805.8	1808.2	1808.2	1811.8	1811.8	1815.3	1811.8	1810.6	1810.6	1809.4	1812.9
25°	1790.3	1791.5	1790.3	1793.9	1796.3	1798.7	1797.5	1795.1	1793.9	1793.9	1792.7
27.5°	1765.3	1770.1	1772.5	1777.2	1778.4	1782.0	1777.2	1777.2	1774.9	1772.5	1773.7
30°	1746.3	1748.7	1748.7	1759.4	1759.4	1765.3	1759.4	1758.2	1757.0	1755.8	1753.4
32.5°	1728.4	1732.0	1735.6	1743.9	1749.9	1752.2	1748.7	1746.3	1740.3	1736.8	1735.6
35°	1714.1	1715.3	1722.5	1734.4	1741.5	1747.5	1742.7	1736.8	1728.4	1722.5	1727.2
37.5°	1703.4	1704.6	1715.3	1730.8	1743.9	1748.7	1741.5	1732.0	1718.9	1711.8	1709.4
40°	1693.9	1701.1	1713.0	1734.4	1748.7	1755.8	1749.9	1736.8	1717.7	1703.4	1702.2
42.5°	1689.1	1692.7	1710.6	1735.6	1755.8	1765.3	1757.0	1739.1	1715.3	1698.7	1697.5
45°	1677.2	1688.0	1704.6	1736.8	1759.4	1771.3	1759.4	1736.8	1708.2	1689.1	1685.6
47.5°	1667.7	1671.3	1697.5	1734.4	1761.8	1771.3	1759.4	1730.8	1695.1	1670.1	1667.7
50°	1645.1	1653.4	1679.6	1718.9	1751.0	1760.6	1746.3	1708.2	1667.7	1640.3	1635.6
52.5°	1610.6	1617.7	1648.7	1697.5	1728.4	1739.1	1717.7	1677.2	1629.6	1596.3	1596.3
55°	1557.0	1567.7	1599.9	1649.9	1689.1	1698.7	1673.7	1630.8	1577.3	1543.9	1542.7
57.5°	1492.7	1499.9	1534.4	1589.2	1627.2	1641.5	1616.5	1568.9	1515.4	1476.1	1472.5
60°	1409.4	1418.9	1455.8	1508.2	1547.5	1559.4	1538.0	1490.4	1435.6	1393.9	1393.9
62.5°	1309.4	1320.1	1357.0	1410.6	1451.1	1468.9	1439.2	1393.9	1336.8	1296.3	1292.8
65°	1192.8	1202.3	1235.6	1291.6	1333.2	1346.3	1323.7	1276.1	1221.3	1183.2	1179.7
67.5°	1061.8	1074.9	1108.2	1155.9	1191.6	1208.2	1194.0	1151.1	1094.0	1054.7	1051.1
70°	920.2	929.7	955.9	999.9	1040.4	1052.3	1030.9	1002.3	948.7	913.0	908.3
72.5°	769.0	777.3	798.7	840.4	869.0	884.5	872.5	835.6	792.8	763.0	767.8
75°	616.6	615.4	639.2	669.0	695.2	705.9	697.6	673.8	634.5	609.5	608.3
77.5°	464.2	476.2	484.5	509.5	530.9	539.2	527.3	508.3	478.5	458.3	461.9
80°	326.2	319.0	334.5	350.0	364.3	372.6	365.4	354.7	334.5	319.0	316.6
82.5°	200.0	194.0	201.2	215.5	225.0	227.4	228.6	215.5	207.1	195.2	197.6
85°	88.1	89.3	95.2	104.8	105.9	107.1	107.1	104.8	95.2	94.0	91.7
87.5°	21.4	21.4	22.6	26.2	26.2	27.4	27.4	23.8	22.6	20.2	21.4
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)