

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: P400645

Luminaire Tested: **TT-D4-827-U-CQ**

Issue Date: 6/3/2020

Test Information

Test Method: LM-79-08
Report Number: P400645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1908-473-17)
Test Lab: INNOVATION CENTER
Issue Date: 6/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D4-827-U-CQ
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
2700K, 80 CRI LEDS AND CONCENTRATED DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6250 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 57.6
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: 28.75 FT

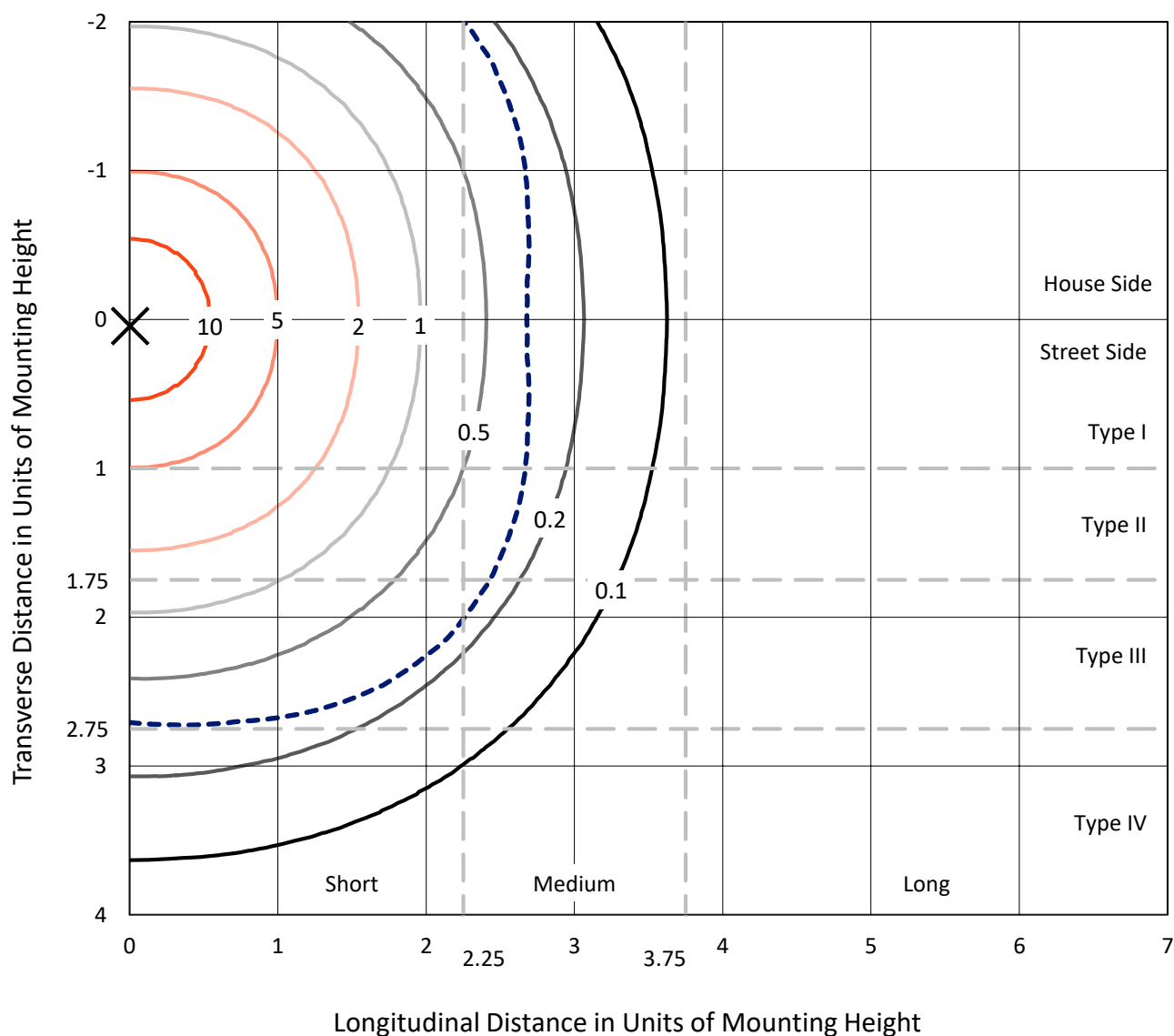


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

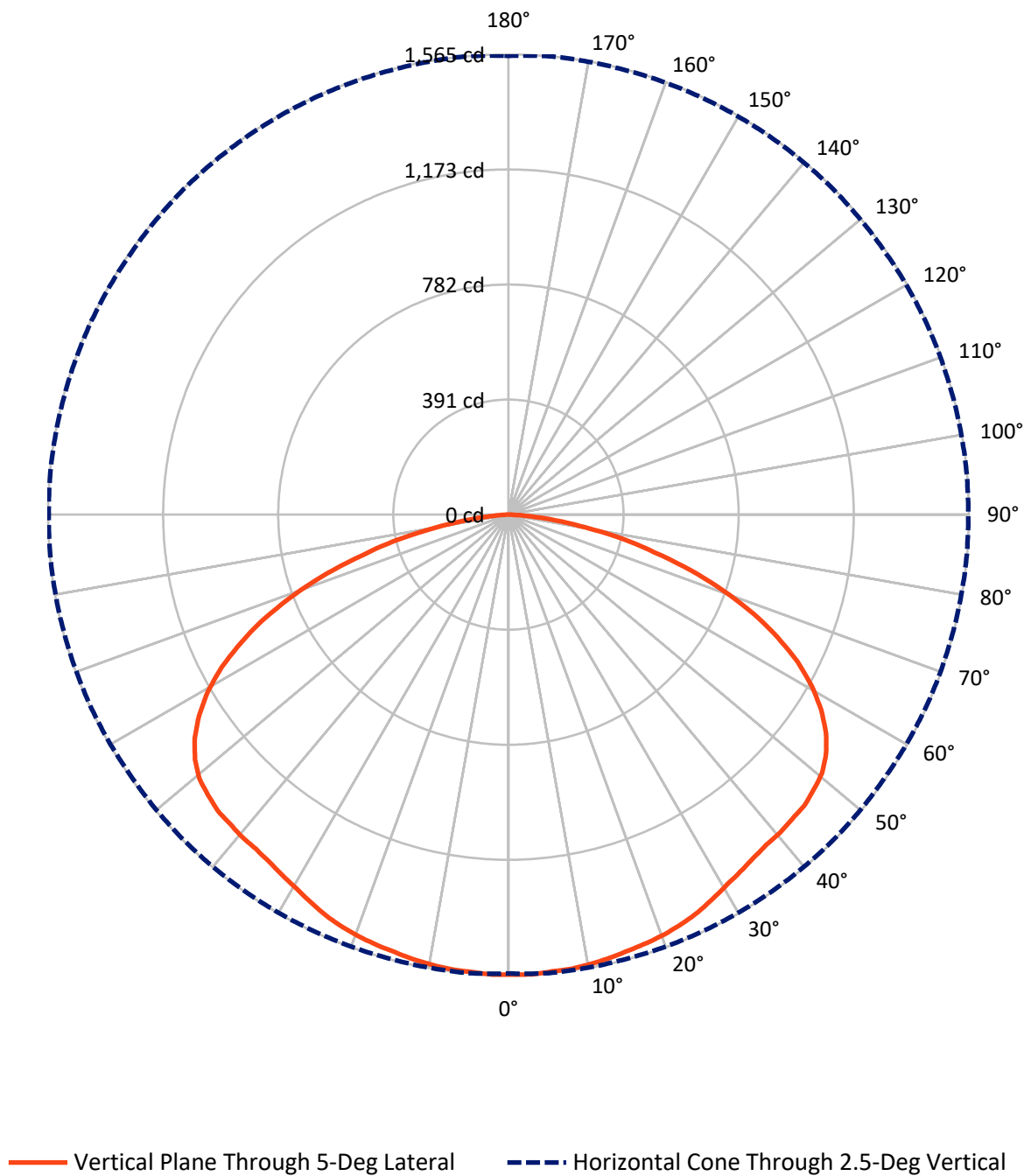


Based on 10 foot mounting height. Maximum calculated value = 15.6 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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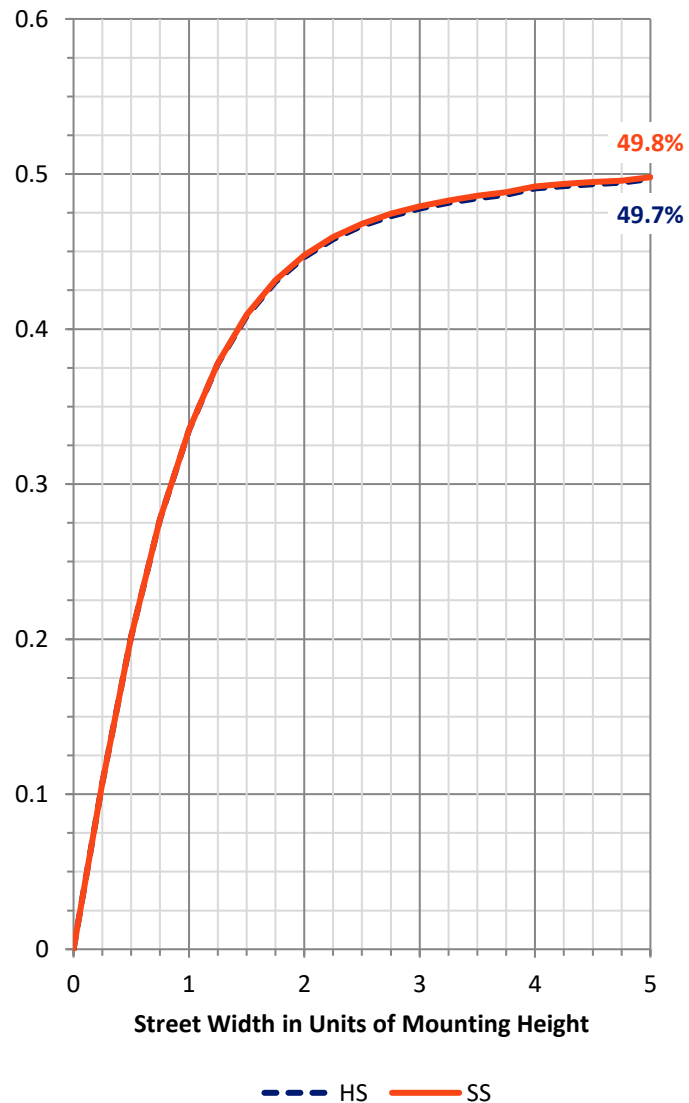
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3125.0	0.0	3125.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3125.0	0.0	3125.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6250.0	0.0	6250.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.7	2.4
10°-20°	435.5	7.0
20°-30°	692.6	11.1
30°-40°	911.1	14.6
40°-50°	1115.1	17.8
50°-60°	1207.8	19.3
60°-70°	1039.1	16.6
70°-80°	584.2	9.3
80°-90°	115.8	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°	6250.0	100.0
0°-180°	6250.0	100.0

Coefficient of Utilization



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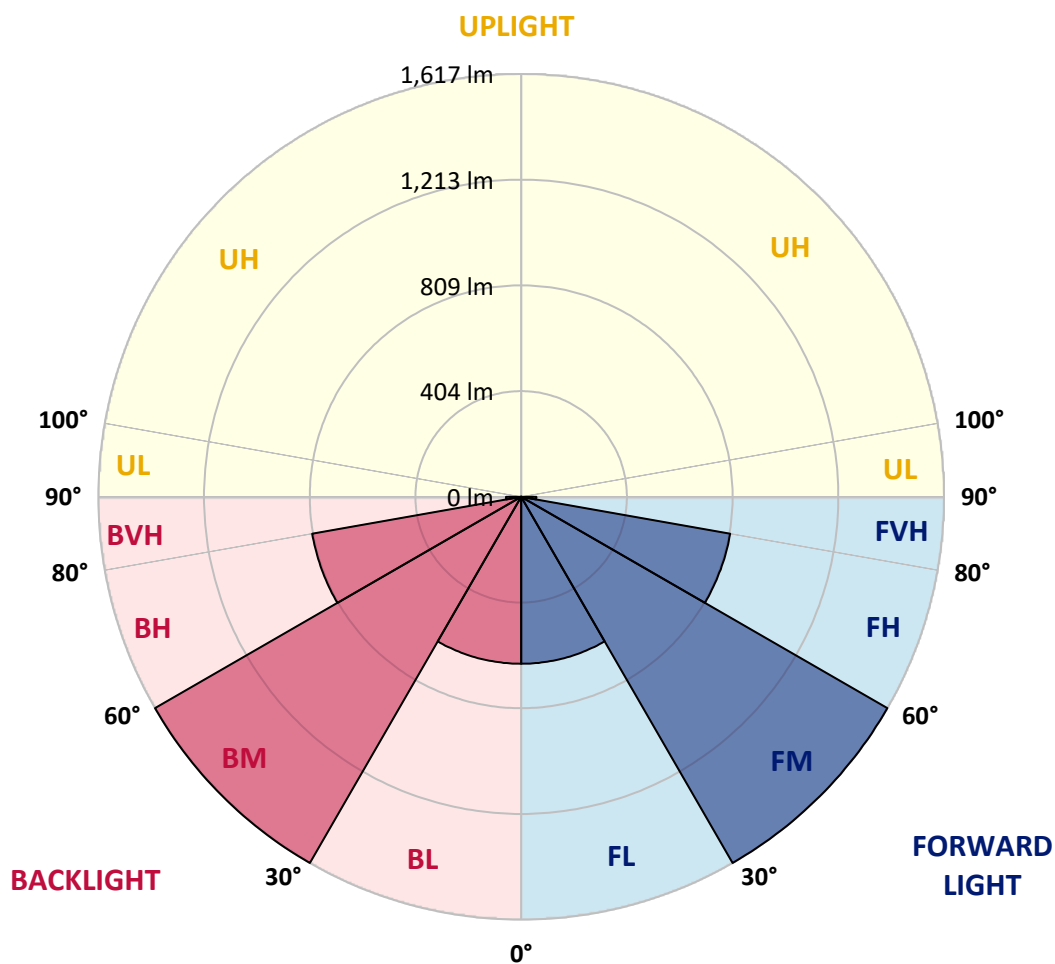
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	638.4	10.2			
FM	(30°-60°)	1617.0	25.9			
FH	(60°-80°)	811.6	13.0			G1/1800
FVH	(80°-90°)	57.9	0.9			G1/100
BL	(0°-30°)	638.4	10.2	B2/1000		
BM	(30°-60°)	1617.0	25.9	B2/2500		
BH	(60°-80°)	811.6	13.0	B2/1000		G1/1800
BVH	(80°-90°)	57.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6
2.5°	1559.6	1564.6	1562.6	1562.6	1562.6	1562.6	1560.6	1562.6	1562.6	1563.6	1562.6
5°	1560.6	1559.6	1559.6	1560.6	1560.6	1561.6	1559.6	1560.6	1561.6	1561.6	1562.6
7.5°	1557.6	1558.6	1556.6	1558.6	1556.6	1557.6	1557.6	1558.6	1557.6	1558.6	1560.6
10°	1551.6	1552.6	1551.6	1551.6	1551.6	1553.6	1549.6	1552.6	1551.6	1552.6	1551.6
12.5°	1540.7	1545.7	1543.7	1545.7	1545.7	1545.7	1542.7	1544.7	1545.7	1545.7	1545.7
15°	1535.7	1536.7	1533.7	1537.7	1538.7	1539.7	1535.7	1537.7	1537.7	1538.7	1539.7
17.5°	1524.8	1529.7	1528.8	1531.7	1530.7	1533.7	1532.7	1531.7	1530.7	1532.7	1530.7
20°	1516.8	1521.8	1520.8	1523.8	1524.8	1527.8	1524.8	1524.8	1521.8	1522.8	1525.8
22.5°	1508.9	1510.9	1510.9	1513.8	1513.8	1516.8	1513.8	1512.8	1512.8	1511.8	1514.8
25°	1495.9	1496.9	1495.9	1498.9	1500.9	1502.9	1501.9	1499.9	1498.9	1498.9	1497.9
27.5°	1475.0	1479.0	1481.0	1485.0	1486.0	1489.0	1485.0	1485.0	1483.0	1481.0	1482.0
30°	1459.1	1461.1	1461.1	1470.1	1470.1	1475.0	1470.1	1469.1	1468.1	1467.1	1465.1
32.5°	1444.2	1447.2	1450.2	1457.1	1462.1	1464.1	1461.1	1459.1	1454.2	1451.2	1450.2
35°	1432.3	1433.3	1439.2	1449.2	1455.2	1460.1	1456.1	1451.2	1444.2	1439.2	1443.2
37.5°	1423.3	1424.3	1433.3	1446.2	1457.1	1461.1	1455.2	1447.2	1436.3	1430.3	1428.3
40°	1415.4	1421.3	1431.3	1449.2	1461.1	1467.1	1462.1	1451.2	1435.3	1423.3	1422.3
42.5°	1411.4	1414.4	1429.3	1450.2	1467.1	1475.0	1468.1	1453.2	1433.3	1419.3	1418.4
45°	1401.4	1410.4	1424.3	1451.2	1470.1	1480.0	1470.1	1451.2	1427.3	1411.4	1408.4
47.5°	1393.5	1396.5	1418.4	1449.2	1472.1	1480.0	1470.1	1446.2	1416.4	1395.5	1393.5
50°	1374.6	1381.5	1403.4	1436.3	1463.1	1471.1	1459.1	1427.3	1393.5	1370.6	1366.6
52.5°	1345.7	1351.7	1377.6	1418.4	1444.2	1453.2	1435.3	1401.4	1361.7	1333.8	1333.8
55°	1301.0	1309.9	1336.8	1378.6	1411.4	1419.3	1398.5	1362.7	1317.9	1290.0	1289.0
57.5°	1247.3	1253.2	1282.1	1327.8	1359.7	1371.6	1350.7	1310.9	1266.2	1233.3	1230.4
60°	1177.6	1185.6	1216.4	1260.2	1293.0	1303.0	1285.1	1245.3	1199.5	1164.7	1164.7
62.5°	1094.1	1103.1	1133.9	1178.6	1212.5	1227.4	1202.5	1164.7	1117.0	1083.2	1080.2
65°	996.6	1004.6	1032.4	1079.2	1114.0	1124.9	1106.0	1066.2	1020.5	988.7	985.7
67.5°	887.2	898.2	926.0	965.8	995.6	1009.6	997.6	961.8	914.1	881.2	878.3
70°	768.9	776.8	798.7	835.5	869.3	879.3	861.4	837.5	792.7	762.9	758.9
72.5°	642.5	649.5	667.4	702.2	726.1	739.0	729.1	698.2	662.4	637.6	641.5
75°	515.2	514.2	534.1	559.0	580.9	589.8	582.9	563.0	530.1	509.3	508.3
77.5°	387.9	397.9	404.8	425.7	443.6	450.6	440.6	424.7	399.8	382.9	385.9
80°	272.5	266.6	279.5	292.4	304.4	311.3	305.4	296.4	279.5	266.6	264.6
82.5°	167.1	162.1	168.1	180.0	188.0	190.0	191.0	180.0	173.1	163.1	165.1
85°	73.6	74.6	79.6	87.5	88.5	89.5	89.5	87.5	79.6	78.6	76.6
87.5°	17.9	17.9	18.9	21.9	21.9	22.9	22.9	19.9	18.9	16.9	17.9
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)