

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P628732

Luminaire Tested: GWS-SA1A-730-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628732
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-730-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (16) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2637 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

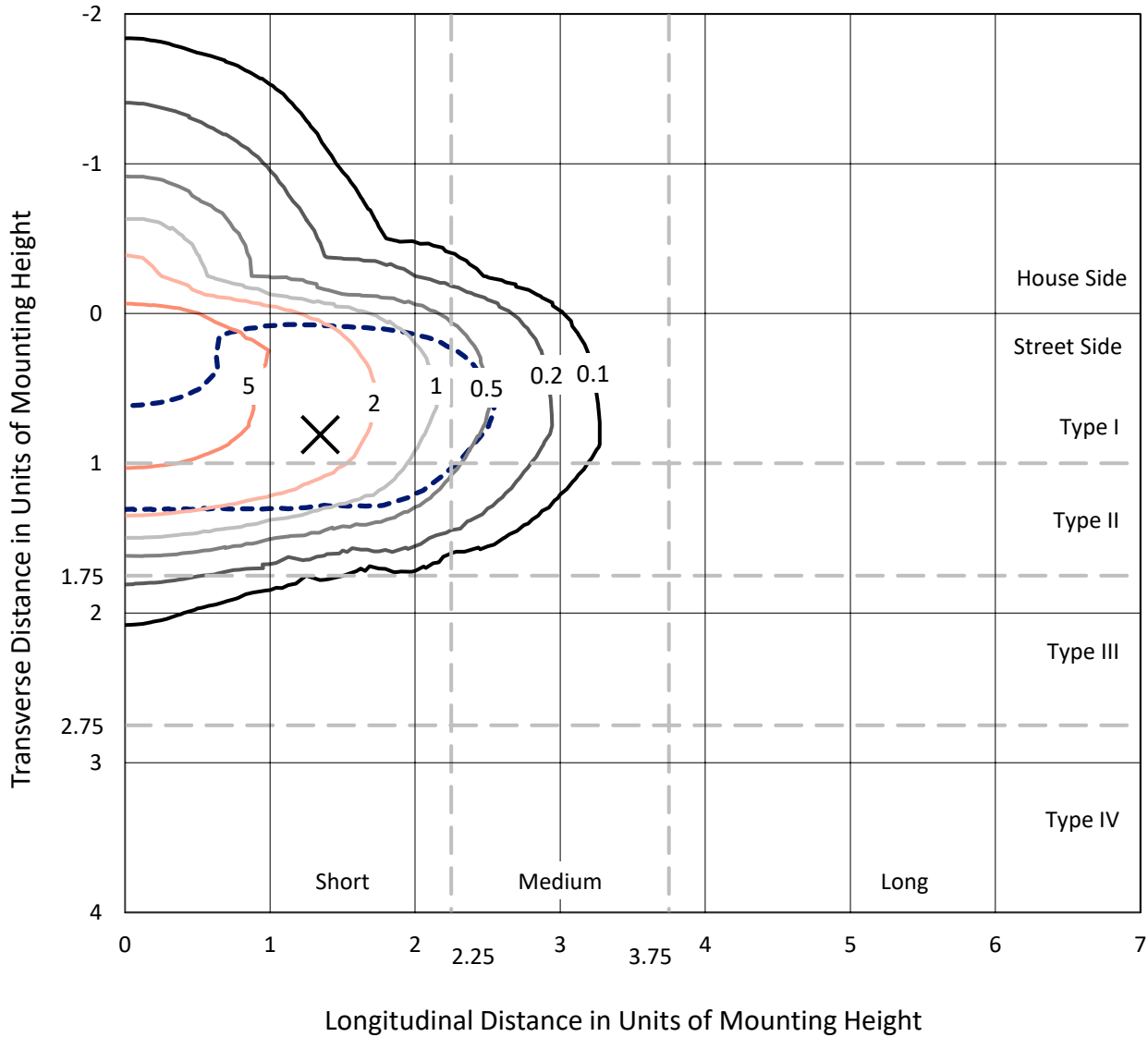
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P628732
 CATALOG NUMBER: GWS-SA1A-730-U-AFL-W

Iso-Footcandle Lines of Horizontal Illumination

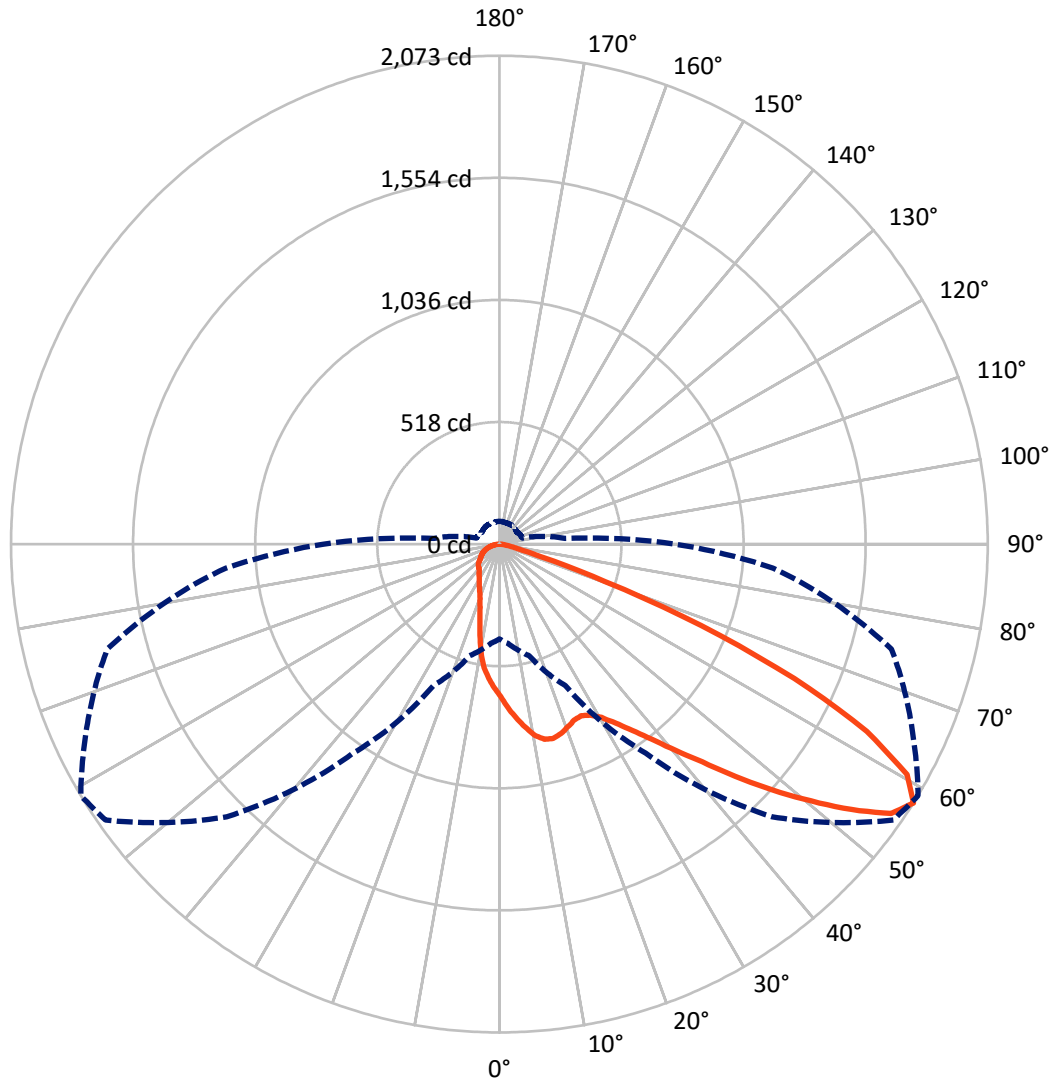
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

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CATALOG NUMBER: GWS-SA1A-730-U-AFL-W

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	409.3	0.0	409.3
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	2227.8	0.0	2227.8
	% Fixture	84.5	0.0	84.5
Total	Lumens	2637.0	0.0	2637.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	2.3
10°-20°	152.3	5.8
20°-30°	246.9	9.4
30°-40°	397.2	15.1
40°-50°	616.8	23.4
50°-60°	664.3	25.2
60°-70°	385.6	14.6
70°-80°	100.7	3.8
80°-90°	13.3	0.5
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°	2637.0	100.0
0°-180°	2637.0	100.0

Coefficient of Utilization



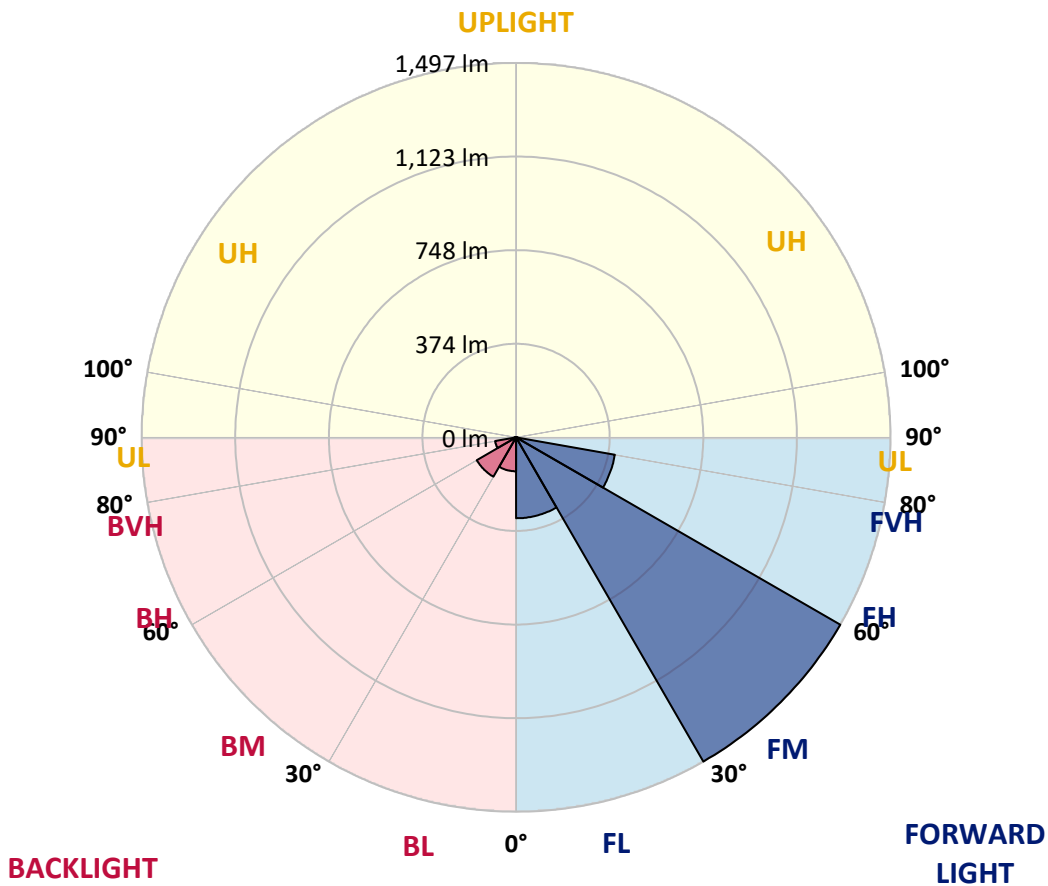
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	323.5	12.3			
FM (30°-60°)	1496.8	56.8			
FH (60°-80°)	401.1	15.2			G0/660
FVH (80°-90°)	6.3	0.2			G0/10
BL (0°-30°)	135.8	5.1	B1/500		
BM (30°-60°)	181.4	6.9	B0/220		
BH (60°-80°)	85.1	3.2	B0/110		G0/110
BVH (80°-90°)	6.9	0.3			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





REPORT NUMBER: P628732
 CATALOG NUMBER: GWS-SA1A-730-U-AFL-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	647.3	647.3	647.3	647.3	647.3	647.3	647.3	647.3	647.3	647.3	647.3
2.5°	734.2	728.1	732.4	724.7	721.6	713.2	702.5	695.2	684.1	669.6	657.0
5°	807.2	802.9	803.8	795.7	788.4	774.5	752.4	740.2	721.2	692.1	665.0
7.5°	804.9	810.0	812.7	819.8	821.8	820.5	800.7	783.6	762.8	719.0	678.1
10°	721.6	731.1	739.6	763.7	793.1	830.2	834.8	824.6	803.6	753.3	693.9
12.5°	630.8	638.0	645.7	674.6	719.5	793.8	844.1	850.4	842.1	787.3	711.7
15°	586.3	589.6	596.8	616.0	651.8	734.2	828.0	855.6	870.7	823.3	731.8
17.5°	584.4	585.9	589.4	599.6	624.5	688.2	798.8	845.2	893.1	861.4	755.2
20°	622.8	618.9	616.7	616.5	628.8	672.8	770.6	828.5	903.7	900.4	780.2
22.5°	676.1	677.4	672.6	660.7	659.2	683.7	756.5	811.6	906.9	934.9	803.5
25°	751.7	758.2	743.9	721.2	710.1	715.5	765.2	806.4	906.5	963.7	817.9
27.5°	839.8	844.9	830.4	800.7	777.7	764.7	791.2	821.8	909.6	988.5	826.7
30°	940.3	941.9	922.1	890.9	857.3	829.4	834.5	853.6	925.8	1021.2	836.9
32.5°	1063.0	1070.0	1040.0	990.6	943.6	908.0	892.6	904.8	960.7	1059.8	852.6
35°	1218.7	1221.1	1182.9	1112.2	1045.7	996.3	964.0	970.5	1013.8	1113.8	876.4
37.5°	1365.6	1368.0	1327.3	1261.6	1166.6	1099.0	1052.2	1049.2	1081.7	1190.1	915.2
40°	1458.8	1465.6	1447.4	1406.2	1315.5	1224.3	1160.8	1150.6	1170.8	1283.5	969.2
42.5°	1508.9	1511.9	1511.5	1516.9	1462.9	1372.3	1283.3	1262.9	1276.5	1384.3	1023.8
45°	1509.3	1516.7	1536.6	1588.3	1590.8	1534.3	1438.2	1406.2	1393.8	1485.9	1080.8
47.5°	1441.7	1449.7	1504.3	1606.2	1681.4	1694.2	1623.6	1559.6	1507.2	1573.3	1127.6
50°	1237.1	1257.2	1361.1	1541.4	1699.2	1822.3	1800.5	1713.7	1608.0	1640.9	1156.9
52.5°	1059.5	1058.7	1122.8	1358.3	1624.7	1878.7	1971.7	1872.2	1707.7	1683.8	1164.3
55°	775.8	780.1	845.6	1038.8	1426.1	1824.1	2065.8	2018.1	1822.1	1706.6	1161.4
57.5°	402.3	423.4	490.6	662.9	1083.6	1636.2	2040.8	2072.5	1938.3	1722.8	1165.3
60°	203.3	199.2	223.3	316.5	627.8	1278.0	1886.3	1987.5	1959.3	1735.4	1167.7
62.5°	135.7	134.6	127.9	146.7	256.6	756.9	1608.0	1749.9	1813.5	1705.7	1136.9
65°	117.5	115.3	103.0	102.3	124.6	313.9	1178.6	1375.6	1498.9	1573.7	1063.2
67.5°	105.8	102.5	90.0	83.9	89.5	137.9	664.2	922.6	1106.8	1330.9	901.7
70°	94.5	92.8	80.4	71.5	70.9	84.1	244.7	476.2	677.2	908.0	659.2
72.5°	84.7	81.7	71.1	62.6	58.3	59.6	106.2	183.4	350.5	566.4	394.3
75°	73.3	71.1	61.8	53.3	48.1	43.6	64.8	84.8	159.8	269.2	186.2
77.5°	56.6	55.1	48.8	42.3	39.4	32.5	39.4	53.5	73.9	113.4	96.9
80°	32.9	33.8	36.4	33.0	29.0	23.2	25.6	30.8	44.4	61.4	54.9
82.5°	16.5	17.6	23.6	19.1	17.3	13.6	15.2	18.2	23.2	34.0	21.5
85°	1.3	1.3	4.3	4.8	5.9	4.8	6.1	7.4	10.6	13.6	7.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.9	1.7	3.2	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	647.3	647.3	647.3	647.3	647.3	647.3	647.3	647.3	647.3	647.3	647.3
2.5°	648.4	639.0	627.7	618.4	604.1	596.5	586.8	574.9	570.1	567.9	566.6
5°	649.7	633.0	608.9	586.6	561.9	542.4	520.7	498.1	485.1	481.9	479.7
7.5°	654.6	631.2	592.8	556.0	510.1	467.6	426.2	385.2	364.2	356.2	355.5
10°	661.3	630.4	576.4	515.3	437.9	370.7	322.3	290.2	276.6	272.1	270.7
12.5°	669.6	629.9	554.9	458.9	354.6	291.1	263.4	258.2	260.1	259.7	259.7
15°	680.2	630.6	528.9	395.0	286.8	252.7	253.2	259.3	265.1	266.0	266.0
17.5°	691.7	629.9	491.2	331.0	246.2	243.6	252.1	260.6	265.8	266.6	266.6
20°	704.1	626.4	443.7	270.7	228.3	237.8	247.1	253.8	256.9	257.7	257.7
22.5°	711.6	616.3	392.1	229.1	217.0	228.7	234.8	241.7	242.1	236.1	235.9
25°	710.4	597.6	333.2	202.3	204.9	215.2	223.0	218.1	212.2	208.8	208.3
27.5°	703.4	569.4	273.3	182.1	190.7	202.2	199.7	195.7	194.2	190.5	190.1
30°	694.5	534.6	219.4	166.3	175.8	186.4	182.7	182.3	180.8	176.7	176.7
32.5°	685.9	498.8	178.8	154.6	166.3	167.1	172.3	172.6	171.9	164.8	164.1
35°	683.5	463.0	151.3	145.4	157.1	156.7	164.1	163.9	151.1	141.3	141.1
37.5°	690.8	426.6	135.0	137.7	144.2	149.1	155.0	144.2	140.0	134.0	133.7
40°	706.2	393.0	126.6	133.3	136.1	143.1	133.8	134.6	133.5	129.0	128.5
42.5°	726.6	364.4	122.0	131.8	131.4	133.3	123.1	126.1	127.7	124.4	123.8
45°	746.3	339.5	119.6	126.2	128.1	117.3	115.3	118.1	120.7	119.4	118.8
47.5°	760.8	318.0	118.3	118.6	123.8	111.9	108.6	109.9	113.1	113.6	113.4
50°	765.2	299.6	116.8	112.3	111.2	106.6	104.0	103.6	107.3	109.9	110.3
52.5°	756.7	283.3	112.9	106.7	101.4	102.1	101.2	99.3	103.0	106.6	106.9
55°	744.0	274.0	106.7	101.4	95.0	98.0	98.4	96.7	99.1	101.5	101.5
57.5°	745.0	279.4	100.8	96.3	89.5	93.4	95.4	94.7	94.7	96.5	96.7
60°	751.1	287.2	96.9	90.0	83.9	88.0	92.6	91.9	90.2	92.6	92.6
62.5°	733.5	276.8	94.3	83.9	78.0	82.8	88.4	88.0	86.1	90.0	90.4
65°	681.5	248.9	91.3	76.3	72.0	77.6	82.4	83.7	82.1	87.3	88.2
67.5°	571.2	209.4	85.6	69.1	66.1	71.3	75.9	77.8	76.5	82.6	83.4
70°	425.9	169.5	76.5	61.1	58.8	63.5	67.8	68.5	68.7	75.9	76.7
72.5°	271.6	131.8	64.4	52.2	50.5	54.0	57.2	60.1	61.4	68.3	68.1
75°	151.5	98.0	51.8	44.2	41.2	44.0	47.7	51.2	54.9	65.0	66.1
77.5°	87.3	68.9	41.0	35.5	31.9	34.9	38.1	43.1	54.2	62.9	61.8
80°	49.2	44.7	31.0	26.0	23.8	26.0	28.4	37.9	42.7	46.4	47.0
82.5°	23.0	25.1	21.2	16.0	16.0	17.5	19.7	29.3	32.3	26.4	23.0
85°	8.4	11.3	10.4	8.2	7.2	7.1	12.3	16.7	10.4	9.3	8.0
87.5°	2.2	3.2	3.0	2.0	1.1	0.9	0.0	0.0	0.0	0.0	0.0
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)