

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: P628897

Luminaire Tested: GWS-SA1A-750-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628897
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-750-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (16) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2962.2 lumens
Efficiency: N/A
Efficacy: 150.4 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

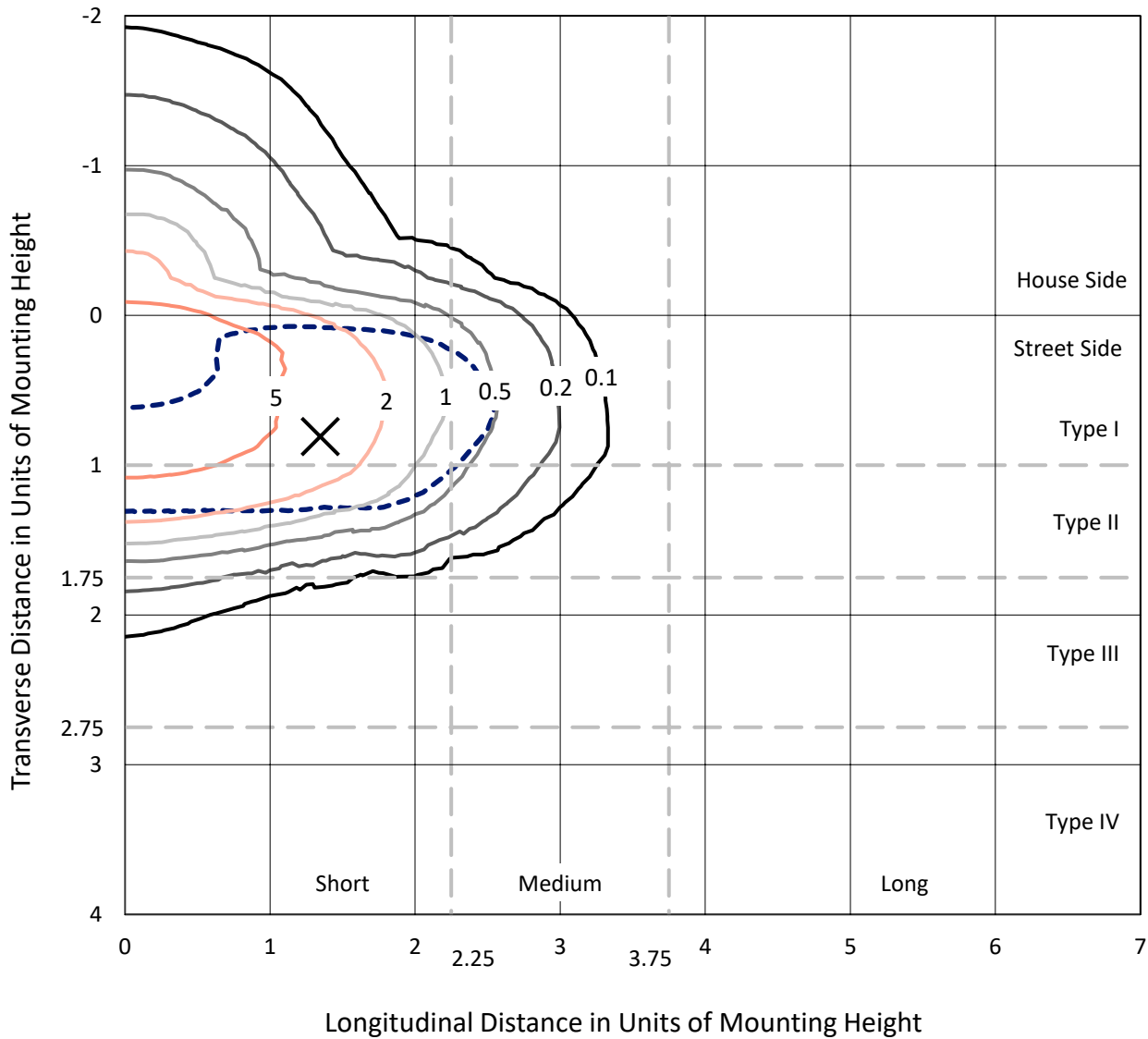
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

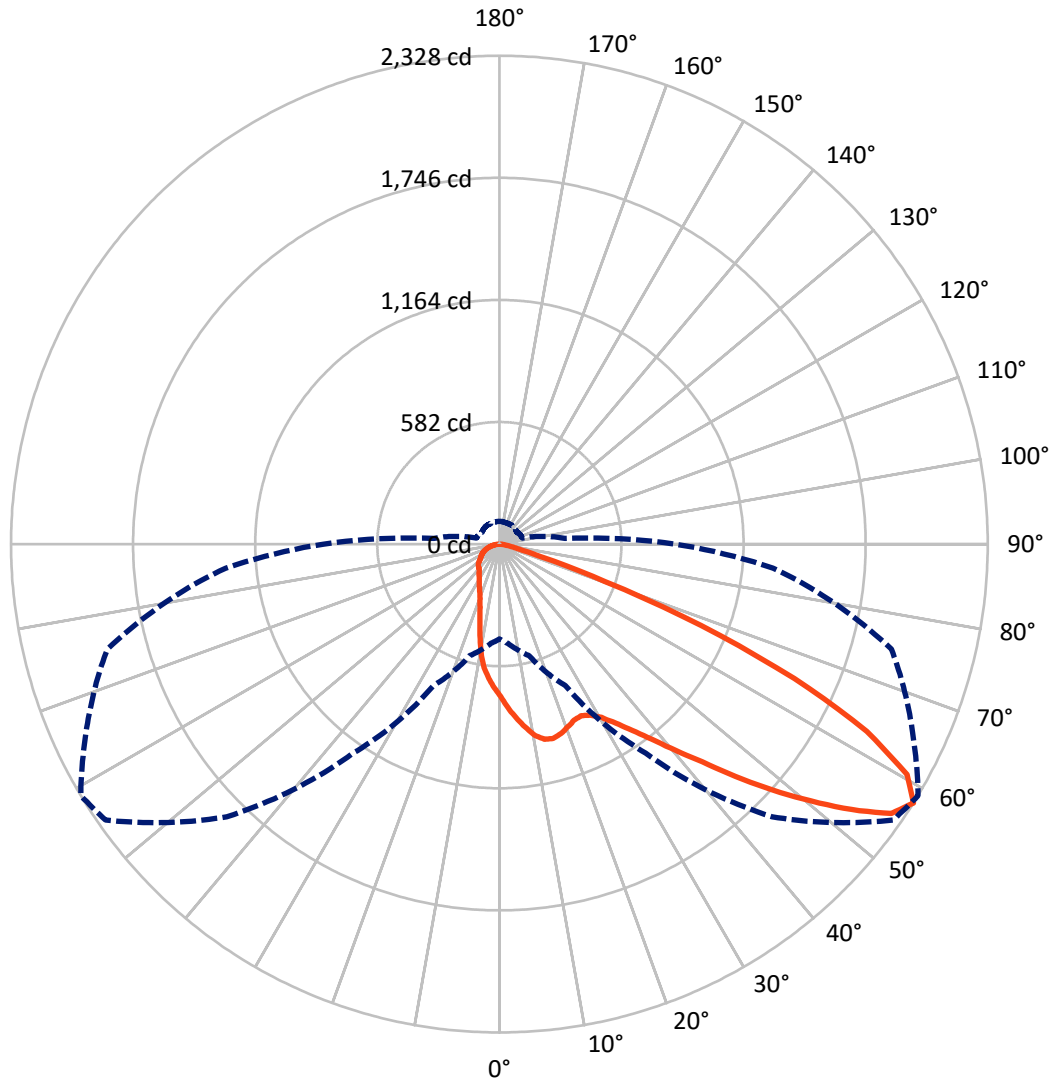
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - N/A

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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	459.7	0.0	459.7
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	2502.5	0.0	2502.5
	% Fixture	84.5	0.0	84.5
Total	Lumens	2962.2	0.0	2962.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	2.3
10°-20°	171.1	5.8
20°-30°	277.3	9.4
30°-40°	446.1	15.1
40°-50°	692.8	23.4
50°-60°	746.3	25.2
60°-70°	433.1	14.6
70°-80°	113.1	3.8
80°-90°	14.9	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°	2962.2	100.0
0°-180°	2962.2	100.0

Coefficient of Utilization



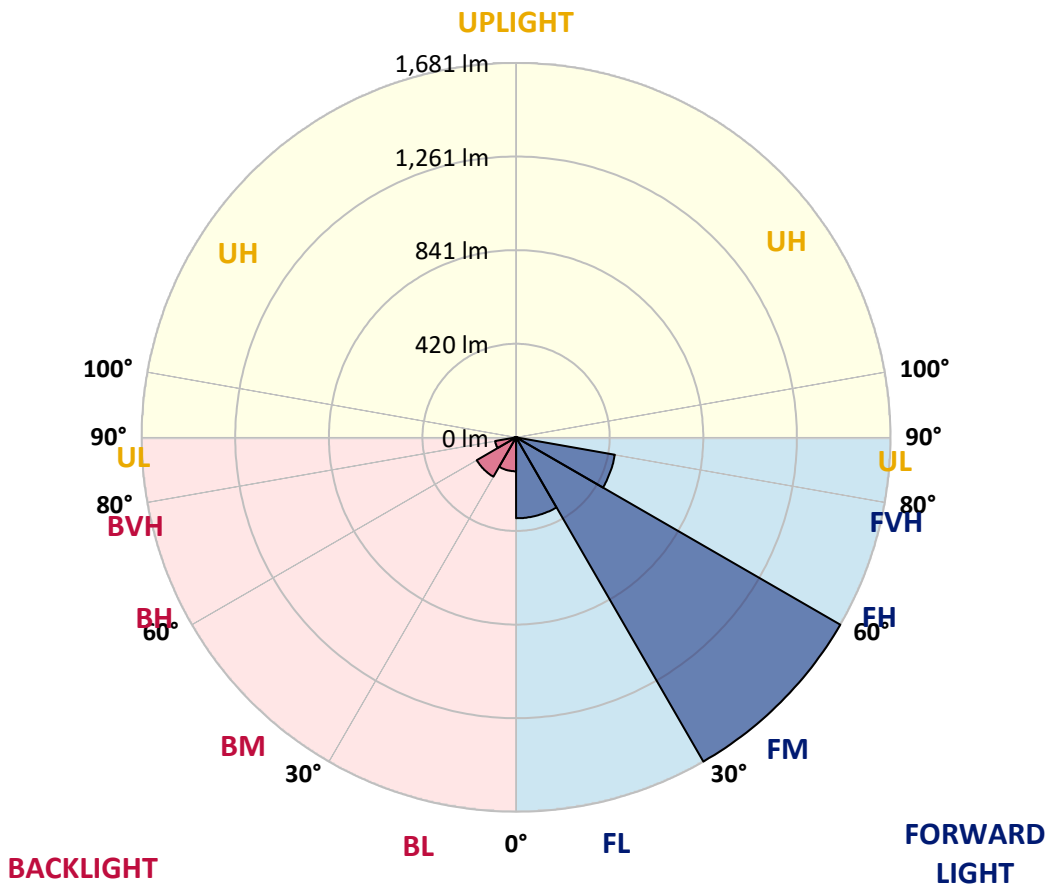
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	363.4	12.3			
FM (30°-60°)	1681.4	56.8			
FH (60°-80°)	450.5	15.2			G0/660
FVH (80°-90°)	7.1	0.2			G0/10
BL (0°-30°)	152.5	5.1	B1/500		
BM (30°-60°)	203.8	6.9	B0/220		
BH (60°-80°)	95.6	3.2	B0/110		G0/110
BVH (80°-90°)	7.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2
2.5°	824.8	817.9	822.7	814.1	810.6	801.2	789.1	781.0	768.5	752.2	738.0
5°	906.7	901.9	903.0	893.8	885.6	870.0	845.2	831.4	810.2	777.4	747.0
7.5°	904.2	909.8	913.0	920.9	923.2	921.7	899.4	880.2	856.9	807.7	761.8
10°	810.6	821.2	830.8	857.9	890.9	932.6	937.8	926.3	902.7	846.2	779.5
12.5°	708.6	716.7	725.3	757.8	808.3	891.7	948.2	955.3	945.9	884.4	799.5
15°	658.6	662.3	670.4	691.9	732.2	824.8	930.1	961.1	978.0	924.9	822.0
17.5°	656.5	658.1	662.1	673.6	701.5	773.0	897.3	949.5	1003.3	967.6	848.3
20°	699.6	695.3	692.8	692.5	706.3	755.7	865.6	930.7	1015.1	1011.4	876.5
22.5°	759.5	760.9	755.5	742.2	740.5	768.0	849.8	911.7	1018.7	1050.2	902.5
25°	844.4	851.7	835.6	810.2	797.6	803.7	859.6	905.9	1018.3	1082.5	918.8
27.5°	943.4	949.0	932.8	899.4	873.6	859.0	888.8	923.2	1021.8	1110.4	928.6
30°	1056.2	1058.1	1035.8	1000.8	963.0	931.7	937.4	958.8	1040.0	1147.1	940.1
32.5°	1194.1	1202.0	1168.2	1112.7	1060.0	1019.9	1002.6	1016.4	1079.2	1190.5	957.8
35°	1369.0	1371.7	1328.8	1249.3	1174.7	1119.2	1082.9	1090.2	1138.8	1251.2	984.5
37.5°	1534.0	1536.7	1491.0	1417.2	1310.4	1234.5	1182.0	1178.6	1215.1	1336.9	1028.1
40°	1638.7	1646.4	1625.9	1579.7	1477.7	1375.3	1304.0	1292.5	1315.2	1441.8	1088.8
42.5°	1695.0	1698.3	1697.9	1703.9	1643.3	1541.5	1441.6	1418.7	1433.9	1555.0	1150.1
45°	1695.4	1703.7	1726.0	1784.2	1786.9	1723.5	1615.5	1579.7	1565.7	1669.1	1214.1
47.5°	1619.5	1628.4	1689.8	1804.2	1888.7	1903.1	1823.8	1751.9	1693.1	1767.3	1266.6
50°	1389.7	1412.2	1529.0	1731.5	1908.7	2047.0	2022.6	1925.0	1806.3	1843.2	1299.6
52.5°	1190.1	1189.3	1261.2	1525.8	1825.1	2110.4	2214.8	2103.1	1918.3	1891.4	1307.9
55°	871.5	876.3	949.9	1167.0	1602.0	2049.1	2320.6	2267.0	2046.8	1917.1	1304.6
57.5°	451.9	475.7	551.2	744.7	1217.2	1838.0	2292.4	2328.1	2177.3	1935.2	1309.0
60°	228.3	223.8	250.9	355.6	705.3	1435.6	2118.9	2232.6	2200.9	1949.4	1311.7
62.5°	152.4	151.2	143.7	164.7	288.2	850.2	1806.3	1965.6	2037.2	1916.0	1277.1
65°	132.0	129.5	115.7	114.9	139.9	352.6	1324.0	1545.2	1683.7	1767.7	1194.3
67.5°	118.9	115.1	101.1	94.3	100.5	154.9	746.1	1036.4	1243.3	1495.0	1012.9
70°	106.1	104.3	90.3	80.3	79.7	94.5	274.8	534.9	760.7	1019.9	740.5
72.5°	95.1	91.8	79.9	70.3	65.5	66.9	119.3	206.0	393.7	636.2	442.9
75°	82.4	79.9	69.4	59.8	54.0	49.0	72.8	95.3	179.5	302.4	209.2
77.5°	63.6	61.9	54.8	47.5	44.2	36.5	44.2	60.1	83.0	127.4	108.9
80°	36.9	38.0	40.9	37.1	32.5	26.1	28.8	34.6	49.8	69.0	61.7
82.5°	18.6	19.8	26.5	21.5	19.4	15.2	17.1	20.4	26.1	38.2	24.2
85°	1.5	1.5	4.8	5.4	6.7	5.4	6.9	8.3	11.9	15.2	8.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.0	1.9	3.5	2.3
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°	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2
2.5°	728.4	717.8	705.1	694.6	678.6	670.0	659.2	645.8	640.4	637.9	636.4
5°	729.9	711.1	684.0	659.0	631.2	609.3	584.9	559.5	544.9	541.4	538.9
7.5°	735.3	709.0	665.9	624.6	573.1	525.3	478.8	432.7	409.1	400.2	399.3
10°	742.8	708.2	647.5	578.9	491.9	416.4	362.0	325.9	310.7	305.7	304.0
12.5°	752.2	707.6	623.3	515.5	398.3	327.0	295.9	290.1	292.2	291.7	291.7
15°	764.1	708.4	594.1	443.8	322.2	283.8	284.4	291.3	297.8	298.8	298.8
17.5°	777.0	707.6	551.8	371.8	276.5	273.6	283.2	292.8	298.6	299.5	299.5
20°	791.0	703.6	498.4	304.0	256.5	267.1	277.6	285.1	288.6	289.4	289.4
22.5°	799.3	692.3	440.4	257.3	243.8	256.9	263.8	271.5	271.9	265.3	265.0
25°	798.1	671.3	374.3	227.3	230.2	241.7	250.5	245.0	238.4	234.6	234.0
27.5°	790.1	639.6	307.0	204.6	214.2	227.1	224.4	219.8	218.1	214.0	213.5
30°	780.1	600.6	246.5	186.8	197.5	209.4	205.2	204.8	203.1	198.5	198.5
32.5°	770.5	560.3	200.8	173.7	186.8	187.7	193.5	193.9	193.1	185.2	184.3
35°	767.8	520.1	170.0	163.3	176.4	176.0	184.3	184.1	169.7	158.7	158.5
37.5°	776.0	479.2	151.6	154.7	162.0	167.5	174.1	162.0	157.2	150.6	150.1
40°	793.3	441.5	142.2	149.7	152.9	160.8	150.4	151.2	149.9	144.9	144.3
42.5°	816.2	409.4	137.0	148.1	147.6	149.7	138.3	141.6	143.5	139.7	139.1
45°	838.3	381.4	134.3	141.8	143.9	131.8	129.5	132.6	135.5	134.1	133.5
47.5°	854.6	357.2	132.8	133.3	139.1	125.7	122.0	123.5	127.0	127.6	127.4
50°	859.6	336.6	131.2	126.2	124.9	119.7	116.8	116.4	120.5	123.5	123.9
52.5°	850.0	318.2	126.8	119.9	113.9	114.7	113.7	111.6	115.7	119.7	120.1
55°	835.8	307.8	119.9	113.9	106.8	110.1	110.5	108.6	111.4	114.1	114.1
57.5°	836.9	313.8	113.2	108.2	100.5	104.9	107.2	106.4	106.4	108.4	108.6
60°	843.7	322.6	108.9	101.1	94.3	98.8	104.1	103.2	101.3	104.1	104.1
62.5°	823.9	310.9	105.9	94.3	87.6	93.0	99.3	98.8	96.8	101.1	101.6
65°	765.5	279.6	102.6	85.7	80.9	87.2	92.6	94.0	92.2	98.0	99.1
67.5°	641.7	235.2	96.1	77.6	74.2	80.1	85.3	87.4	85.9	92.8	93.6
70°	478.4	190.4	85.9	68.6	66.1	71.3	76.1	76.9	77.2	85.3	86.1
72.5°	305.1	148.1	72.4	58.6	56.7	60.7	64.2	67.6	69.0	76.7	76.5
75°	170.2	110.1	58.2	49.6	46.3	49.4	53.6	57.6	61.7	73.0	74.2
77.5°	98.0	77.4	46.1	39.8	35.9	39.2	42.7	48.4	60.9	70.7	69.4
80°	55.3	50.3	34.8	29.2	26.7	29.2	31.9	42.5	48.0	52.1	52.8
82.5°	25.9	28.2	23.8	17.9	17.9	19.6	22.1	32.9	36.3	29.6	25.9
85°	9.4	12.7	11.7	9.2	8.1	7.9	13.8	18.8	11.7	10.4	9.0
87.5°	2.5	3.5	3.3	2.3	1.3	1.0	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)