

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: P628952

Luminaire Tested: GWS-SA1A-760-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628952
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-760-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (16) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2921.6 lumens
Efficiency: N/A
Efficacy: 148.3 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

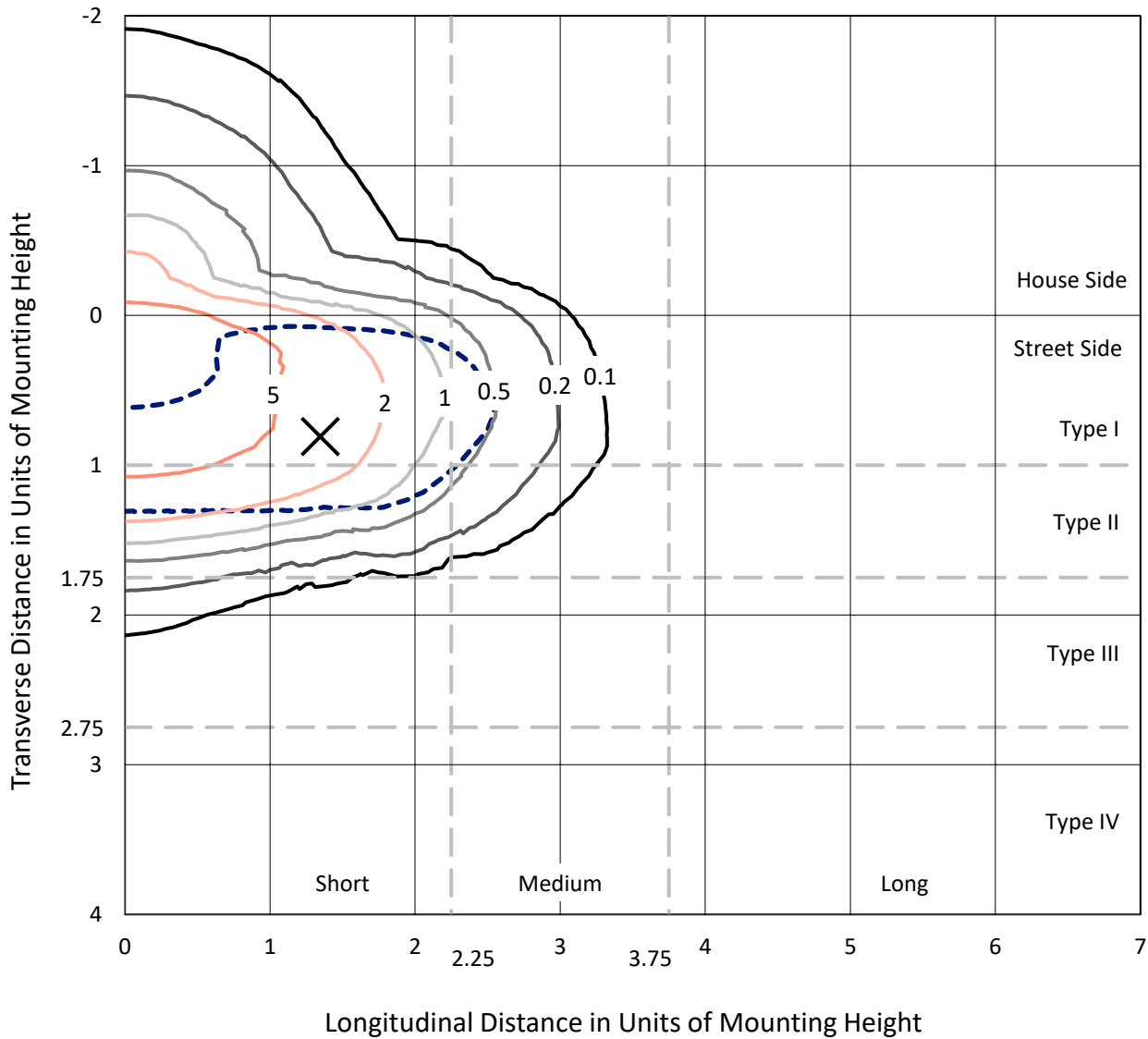
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

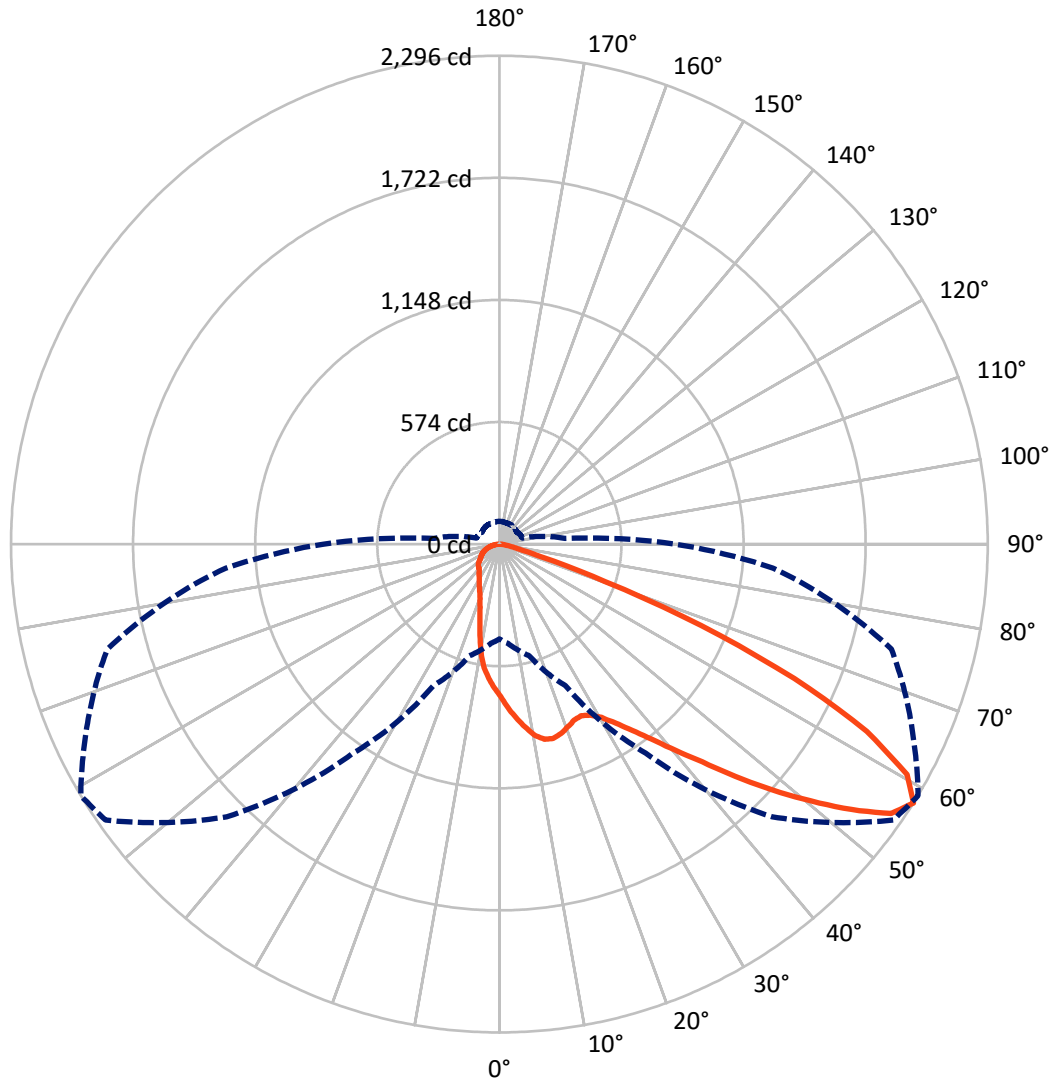
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.8 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	453.4	0.0	453.4
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	2468.2	0.0	2468.2
	% Fixture	84.5	0.0	84.5
Total	Lumens	2921.6	0.0	2921.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	2.3
10°-20°	168.7	5.8
20°-30°	273.5	9.4
30°-40°	440.0	15.1
40°-50°	683.3	23.4
50°-60°	736.0	25.2
60°-70°	427.2	14.6
70°-80°	111.5	3.8
80°-90°	14.7	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°	2921.6	100.0
0°-180°	2921.6	100.0

Coefficient of Utilization



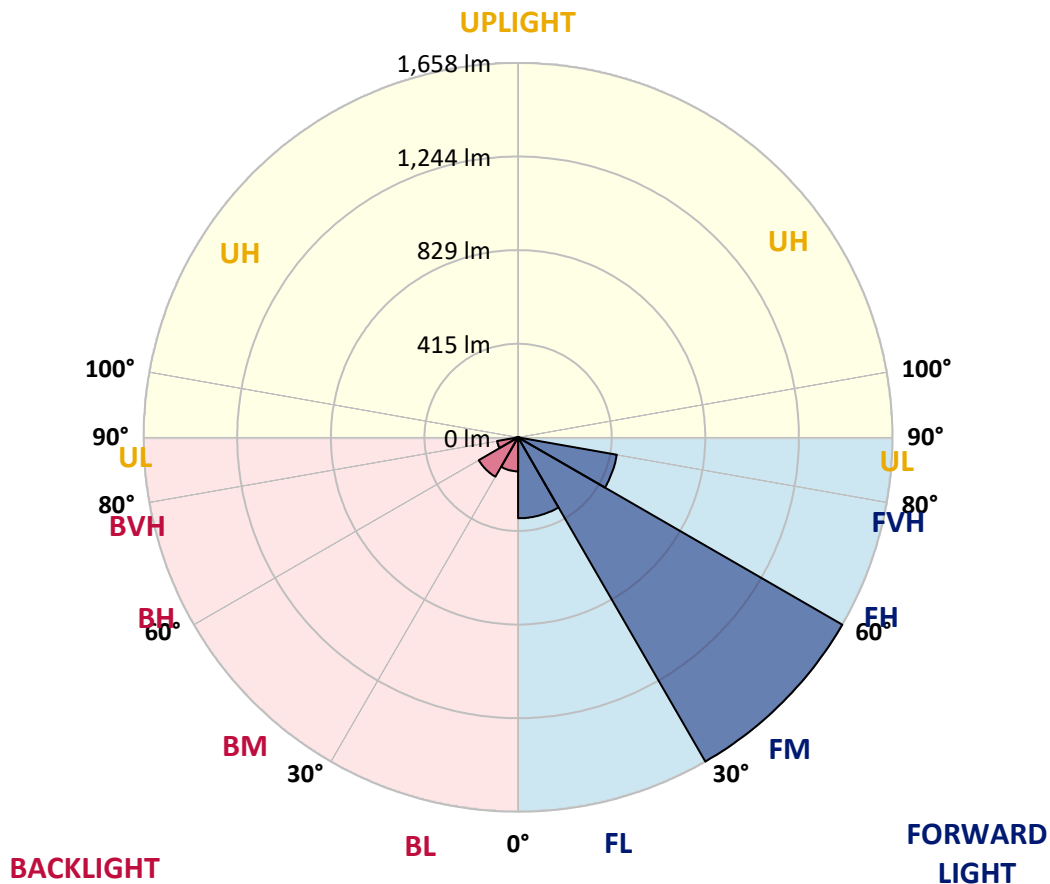
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	358.5	12.3			
FM (30°-60°)	1658.3	56.8			
FH (60°-80°)	444.4	15.2			G0/660
FVH (80°-90°)	7.0	0.2			G0/10
BL (0°-30°)	150.4	5.1	B1/500		
BM (30°-60°)	201.0	6.9	B0/220		
BH (60°-80°)	94.3	3.2	B0/110		G0/110
BVH (80°-90°)	7.7	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°	717.2	717.2	717.2	717.2	717.2	717.2	717.2	717.2	717.2	717.2	717.2
2.5°	813.5	806.7	811.4	803.0	799.5	790.2	778.3	770.3	757.9	741.9	727.9
5°	894.3	889.6	890.6	881.5	873.5	858.1	833.6	820.0	799.1	766.8	736.7
7.5°	891.8	897.4	900.5	908.3	910.5	909.1	887.1	868.2	845.1	796.6	751.3
10°	799.5	810.0	819.4	846.2	878.7	919.8	924.9	913.6	890.4	834.6	768.8
12.5°	698.9	706.9	715.3	747.4	797.2	879.5	935.2	942.2	932.9	872.3	788.6
15°	649.5	653.2	661.3	682.4	722.1	813.5	917.3	948.0	964.6	912.2	810.8
17.5°	647.5	649.1	653.0	664.3	691.9	762.4	885.0	936.4	989.5	954.3	836.7
20°	690.0	685.7	683.3	683.1	696.6	745.4	853.8	917.9	1001.2	997.5	864.5
22.5°	749.1	750.5	745.2	732.0	730.4	757.5	838.1	899.2	1004.7	1035.8	890.2
25°	832.8	840.0	824.1	799.1	786.7	792.7	847.8	893.5	1004.3	1067.7	906.2
27.5°	930.5	936.0	920.0	887.1	861.6	847.2	876.6	910.5	1007.8	1095.2	915.9
30°	1041.8	1043.6	1021.6	987.0	949.8	919.0	924.5	945.7	1025.7	1131.4	927.2
32.5°	1177.7	1185.5	1152.2	1097.5	1045.5	1006.0	988.9	1002.5	1064.4	1174.2	944.7
35°	1350.3	1352.9	1310.6	1232.2	1158.6	1103.9	1068.1	1075.3	1123.2	1234.1	971.0
37.5°	1513.0	1515.6	1470.6	1397.8	1292.5	1217.6	1165.8	1162.5	1198.5	1318.6	1014.0
40°	1616.2	1623.8	1603.7	1558.0	1457.4	1356.4	1286.1	1274.8	1297.2	1422.0	1073.8
42.5°	1671.7	1675.0	1674.6	1680.6	1620.7	1520.4	1421.8	1399.2	1414.2	1533.7	1134.3
45°	1672.2	1680.4	1702.4	1759.8	1762.4	1699.9	1593.4	1558.0	1544.2	1646.2	1197.4
47.5°	1597.3	1606.1	1666.6	1779.5	1862.8	1877.0	1798.8	1727.9	1669.9	1743.1	1249.3
50°	1370.6	1392.8	1508.0	1707.7	1882.6	2018.9	1994.9	1898.6	1781.6	1818.0	1281.8
52.5°	1173.8	1173.0	1243.9	1504.9	1800.1	2081.4	2184.5	2074.2	1892.0	1865.5	1290.0
55°	859.5	864.3	936.9	1151.0	1580.0	2021.0	2288.8	2235.9	2018.7	1890.8	1286.7
57.5°	445.7	469.1	543.6	734.5	1200.5	1812.8	2261.0	2296.2	2147.5	1908.7	1291.0
60°	225.2	220.7	247.4	350.7	695.6	1415.9	2089.9	2202.0	2170.7	1922.7	1293.7
62.5°	150.3	149.1	141.7	162.5	284.2	838.5	1781.6	1938.7	2009.3	1889.8	1259.6
65°	130.2	127.7	114.2	113.3	138.0	347.8	1305.8	1524.1	1660.6	1743.5	1177.9
67.5°	117.2	113.5	99.8	93.0	99.1	152.8	735.9	1022.2	1226.2	1474.5	999.0
70°	104.7	102.8	89.1	79.2	78.6	93.2	271.1	527.6	750.3	1006.0	730.4
72.5°	93.8	90.5	78.8	69.3	64.6	66.0	117.6	203.2	388.3	627.5	436.9
75°	81.2	78.8	68.5	59.0	53.3	48.3	71.8	94.0	177.1	298.2	206.3
77.5°	62.7	61.1	54.1	46.9	43.6	36.0	43.6	59.2	81.9	125.7	107.4
80°	36.4	37.4	40.3	36.6	32.1	25.7	28.4	34.1	49.2	68.1	60.9
82.5°	18.3	19.5	26.1	21.2	19.1	15.0	16.9	20.2	25.7	37.6	23.9
85°	1.4	1.4	4.7	5.3	6.6	5.3	6.8	8.2	11.7	15.0	8.0
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°	717.2	717.2	717.2	717.2	717.2	717.2	717.2	717.2	717.2	717.2	717.2
2.5°	718.4	707.9	695.4	685.1	669.3	660.8	650.1	637.0	631.6	629.2	627.7
5°	719.9	701.4	674.6	649.9	622.6	601.0	576.9	551.8	537.4	533.9	531.5
7.5°	725.2	699.3	656.7	616.0	565.2	518.1	472.2	426.8	403.5	394.7	393.9
10°	732.6	698.5	638.6	571.0	485.2	410.7	357.1	321.5	306.5	301.5	299.9
12.5°	741.9	697.9	614.8	508.4	392.8	322.5	291.9	286.1	288.2	287.7	287.7
15°	753.6	698.7	586.0	437.7	317.8	279.9	280.5	287.3	293.7	294.7	294.7
17.5°	766.4	697.9	544.2	366.7	272.7	269.8	279.3	288.8	294.5	295.4	295.4
20°	780.1	694.0	491.6	299.9	253.0	263.5	273.8	281.2	284.7	285.5	285.5
22.5°	788.4	682.8	434.4	253.8	240.4	253.4	260.2	267.8	268.2	261.6	261.4
25°	787.1	662.1	369.2	224.2	227.1	238.4	247.0	241.7	235.1	231.4	230.8
27.5°	779.3	630.8	302.8	201.8	211.2	224.0	221.3	216.8	215.1	211.0	210.6
30°	769.4	592.3	243.1	184.3	194.8	206.5	202.4	202.0	200.3	195.8	195.8
32.5°	760.0	552.7	198.1	171.3	184.3	185.1	190.9	191.3	190.5	182.6	181.8
35°	757.3	513.0	167.6	161.0	174.0	173.6	181.8	181.6	167.4	156.5	156.3
37.5°	765.3	472.6	149.5	152.6	159.8	165.2	171.7	159.8	155.1	148.5	148.1
40°	782.4	435.4	140.3	147.7	150.8	158.6	148.3	149.1	147.9	142.9	142.3
42.5°	805.0	403.7	135.1	146.0	145.6	147.7	136.4	139.7	141.5	137.8	137.2
45°	826.8	376.2	132.5	139.9	141.9	130.0	127.7	130.8	133.7	132.3	131.6
47.5°	842.9	352.3	131.0	131.4	137.2	124.0	120.3	121.8	125.3	125.9	125.7
50°	847.8	332.0	129.4	124.4	123.2	118.1	115.2	114.8	118.9	121.8	122.2
52.5°	838.3	313.9	125.1	118.3	112.3	113.1	112.1	110.0	114.2	118.1	118.5
55°	824.4	303.6	118.3	112.3	105.3	108.6	109.0	107.2	109.8	112.5	112.5
57.5°	825.4	309.5	111.7	106.7	99.1	103.5	105.7	104.9	104.9	107.0	107.2
60°	832.2	318.2	107.4	99.8	93.0	97.5	102.6	101.8	100.0	102.6	102.6
62.5°	812.6	306.7	104.5	93.0	86.4	91.7	97.9	97.5	95.4	99.8	100.2
65°	755.0	275.8	101.2	84.5	79.8	86.0	91.3	92.8	90.9	96.7	97.7
67.5°	632.9	232.0	94.8	76.5	73.2	79.0	84.1	86.2	84.7	91.5	92.3
70°	471.8	187.8	84.7	67.7	65.2	70.3	75.1	75.9	76.1	84.1	84.9
72.5°	300.9	146.0	71.4	57.8	55.9	59.9	63.3	66.6	68.1	75.7	75.5
75°	167.8	108.6	57.4	49.0	45.7	48.7	52.9	56.8	60.9	72.0	73.2
77.5°	96.7	76.3	45.5	39.3	35.4	38.7	42.2	47.7	60.1	69.7	68.5
80°	54.5	49.6	34.3	28.8	26.3	28.8	31.5	42.0	47.3	51.4	52.0
82.5°	25.5	27.8	23.4	17.7	17.7	19.3	21.8	32.5	35.8	29.2	25.5
85°	9.3	12.5	11.5	9.0	8.0	7.8	13.6	18.5	11.5	10.3	8.8
87.5°	2.5	3.5	3.3	2.3	1.2	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)