

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: P628939

Luminaire Tested: GWS-SA1A-750-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-750-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (16) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2884 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

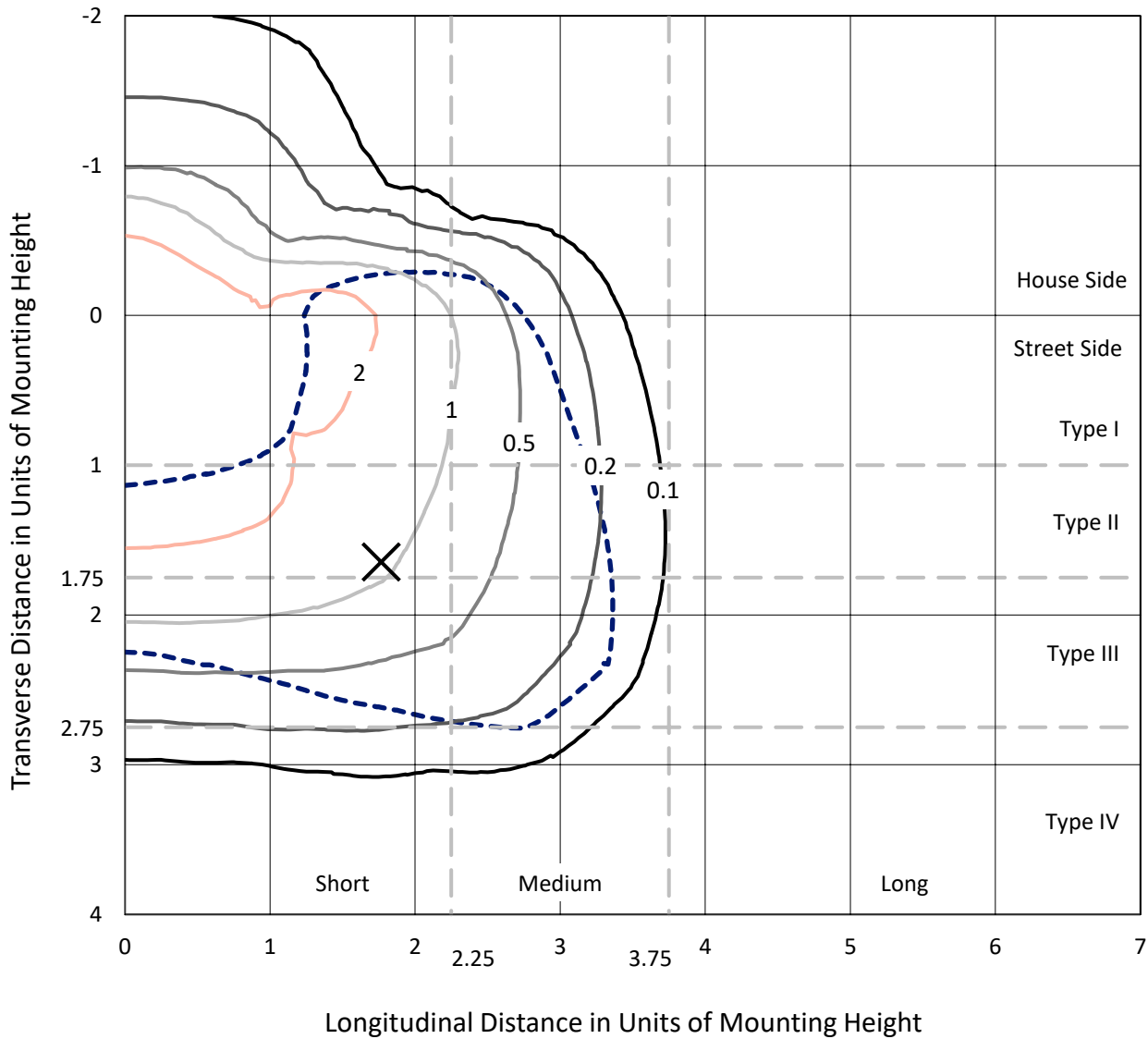
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

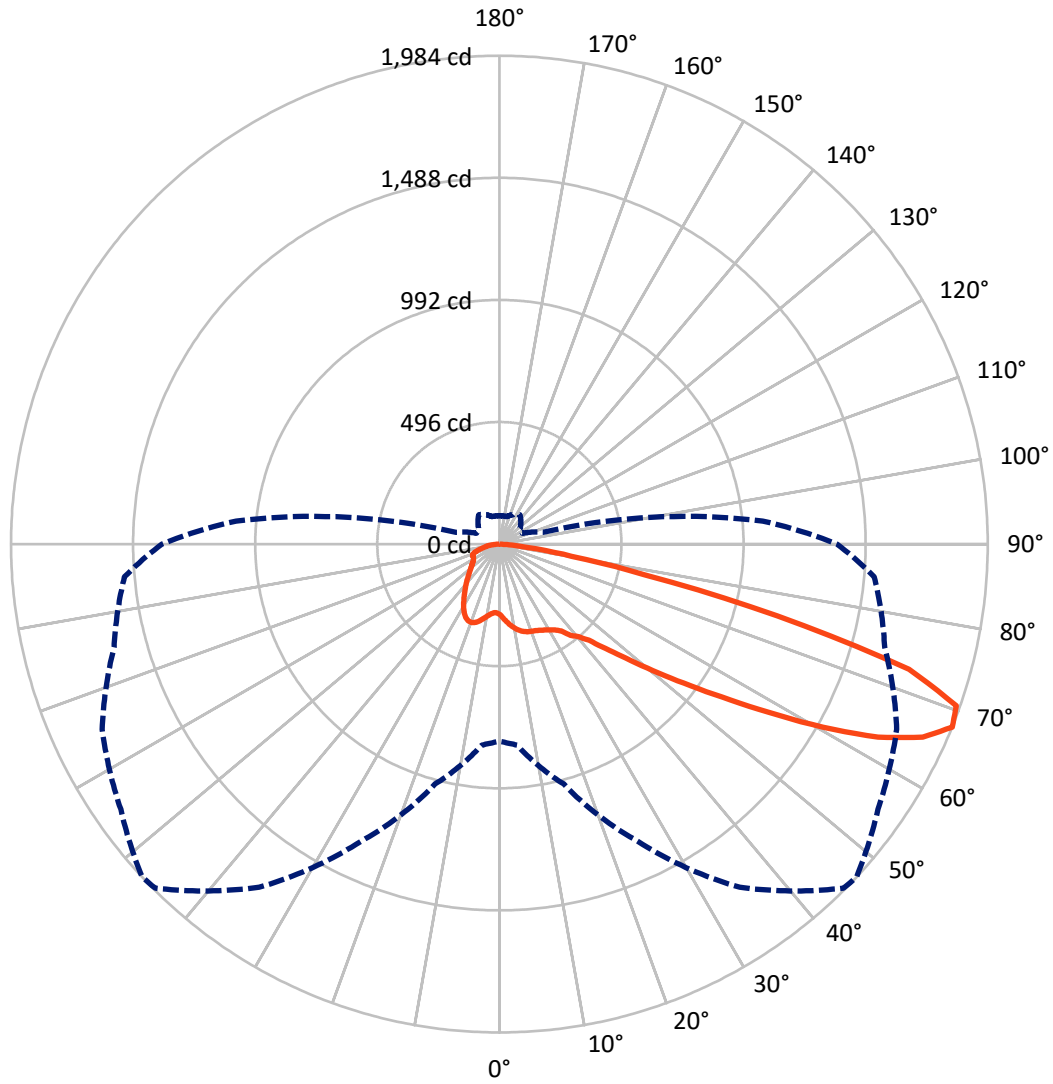
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	657.3	0.0	657.3
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	2226.7	0.0	2226.7
	% Fixture	77.2	0.0	77.2
Total	Lumens	2884.0	0.0	2884.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.2	1.0
10°-20°	97.3	3.4
20°-30°	165.5	5.7
30°-40°	242.4	8.4
40°-50°	369.3	12.8
50°-60°	660.8	22.9
60°-70°	881.7	30.6
70°-80°	398.7	13.8
80°-90°	39.1	1.4
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°	2884.0	100.0
0°-180°	2884.0	100.0

Coefficient of Utilization



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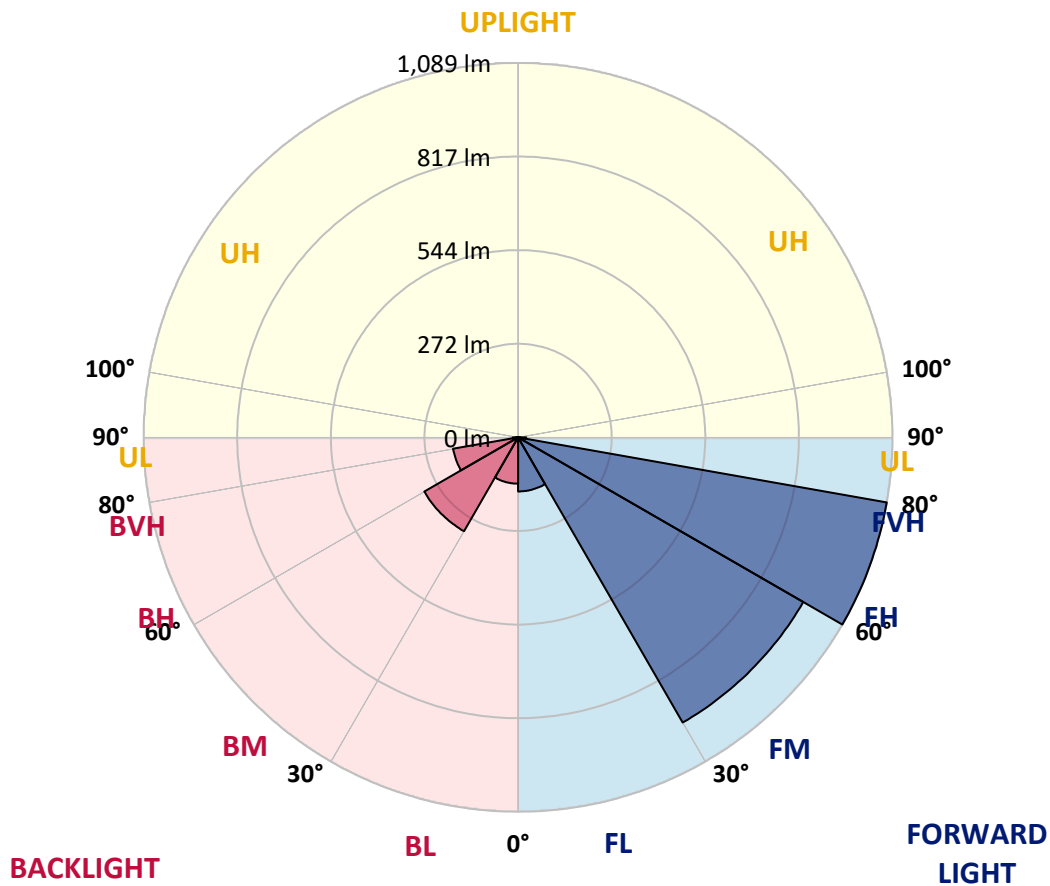
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	157.3	5.5			
FM (30°-60°)	957.5	33.2			
FH (60°-80°)	1088.7	37.7			G1/1800
FVH (80°-90°)	23.2	0.8			G1/100
BL (0°-30°)	134.7	4.7	B1/500		
BM (30°-60°)	314.9	10.9	B1/1000		
BH (60°-80°)	191.8	6.6	B1/500		G1/500
BVH (80°-90°)	15.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	285.9	285.9	285.9	285.9	285.9	285.9	285.9	285.9	285.9	285.9	285.9
2.5°	304.9	305.9	305.7	304.0	303.0	301.1	301.3	298.4	294.0	291.1	287.8
5°	331.8	333.4	331.4	328.6	324.5	318.4	317.8	311.1	302.8	296.9	290.9
7.5°	355.1	356.2	353.7	349.1	343.0	334.9	333.4	325.5	315.1	305.9	297.2
10°	373.3	374.5	371.2	365.1	357.2	349.1	348.0	339.9	328.9	318.0	307.0
12.5°	388.7	389.1	385.6	377.4	368.9	360.5	359.5	352.0	341.8	330.7	318.6
15°	397.7	397.9	393.5	384.5	376.4	369.1	368.5	362.0	352.6	342.2	329.3
17.5°	397.0	397.5	394.3	386.4	379.3	374.9	374.3	370.1	362.8	353.5	340.5
20°	389.3	389.7	387.7	382.4	378.7	377.4	377.6	376.4	372.0	364.3	351.2
22.5°	383.3	383.9	382.0	378.3	377.9	380.8	381.4	382.0	379.9	373.1	360.3
25°	386.2	387.2	384.3	379.1	379.9	386.4	387.7	389.7	388.1	382.2	371.2
27.5°	406.4	407.1	399.5	388.9	386.4	393.3	395.2	398.5	397.3	391.8	383.3
30°	453.3	452.9	436.9	410.8	400.4	403.1	404.5	409.3	409.8	406.2	398.1
32.5°	519.5	517.4	492.5	451.1	420.8	414.1	415.8	422.3	427.1	423.3	412.3
35°	589.3	587.4	560.1	511.5	458.6	435.4	433.5	438.5	445.8	435.4	419.6
37.5°	655.8	652.9	625.0	564.9	505.1	472.7	470.0	465.0	460.6	440.6	428.5
40°	729.6	726.3	701.9	633.9	556.4	501.3	494.4	474.6	470.7	457.9	451.9
42.5°	808.5	808.5	788.2	721.3	618.3	542.2	533.2	503.4	507.6	499.2	492.1
45°	887.3	889.6	873.5	809.3	701.1	619.3	604.9	562.6	572.6	568.9	565.3
47.5°	954.4	958.8	955.7	899.2	802.4	713.2	691.3	647.3	668.8	677.7	687.7
50°	1026.8	1031.6	1028.5	1006.2	921.1	826.8	807.2	761.8	798.7	825.6	858.3
52.5°	1134.2	1141.1	1115.0	1106.5	1065.2	955.9	938.4	886.7	953.6	998.2	1071.2
55°	1224.9	1224.7	1215.5	1235.1	1219.9	1113.8	1094.4	1047.4	1132.9	1180.3	1287.1
57.5°	1267.0	1272.0	1303.5	1359.0	1389.4	1306.7	1288.1	1240.1	1325.4	1350.0	1465.3
60°	1288.7	1295.0	1355.9	1465.6	1547.5	1517.3	1510.0	1448.9	1496.8	1493.9	1615.7
62.5°	1258.3	1270.8	1368.6	1514.4	1660.3	1728.9	1726.6	1634.3	1642.6	1614.0	1708.9
65°	1118.6	1132.1	1285.6	1490.0	1724.8	1889.9	1890.5	1802.1	1754.6	1672.4	1693.3
67.5°	799.9	819.3	1009.1	1333.1	1702.0	1976.9	1984.2	1878.2	1780.9	1620.7	1528.9
70°	436.0	450.2	598.9	969.0	1497.3	1956.0	1969.6	1841.5	1664.9	1402.0	1176.9
72.5°	198.1	202.7	278.6	531.8	1022.8	1683.7	1740.4	1643.4	1367.3	1035.6	748.4
75°	90.7	92.8	121.4	254.4	534.5	1126.7	1166.5	1224.1	951.5	654.0	390.2
77.5°	56.9	57.6	69.0	116.4	266.5	562.4	604.3	728.8	557.2	323.6	163.1
80°	33.6	34.2	43.0	63.0	125.1	257.3	297.2	288.2	261.9	139.7	74.2
82.5°	16.9	17.5	24.8	35.9	68.2	102.4	120.5	121.2	97.6	75.7	41.9
85°	6.0	6.3	8.1	14.2	29.0	33.8	37.7	46.1	47.8	44.0	20.2
87.5°	0.0	0.0	0.2	0.4	0.8	3.3	3.5	6.7	14.0	15.6	8.1
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°	285.9	285.9	285.9	285.9	285.9	285.9	285.9	285.9	285.9	285.9	285.9
2.5°	286.7	283.6	282.6	281.5	279.8	279.2	278.0	276.7	276.7	275.5	274.8
5°	288.2	284.0	281.3	280.1	279.0	279.6	279.6	280.1	281.5	280.7	281.1
7.5°	293.4	288.6	284.9	283.8	283.8	286.3	288.0	290.1	292.8	293.2	293.2
10°	302.6	296.9	293.0	292.4	293.4	296.9	299.5	302.0	305.3	305.5	305.9
12.5°	312.6	307.0	303.0	303.8	304.9	309.5	312.2	314.3	317.6	317.6	317.4
15°	323.0	316.8	313.4	315.1	318.2	323.4	323.8	324.1	325.7	325.3	325.1
17.5°	333.9	327.2	324.7	327.2	330.5	333.0	330.9	328.0	327.4	326.6	326.1
20°	344.5	337.6	336.6	338.4	339.5	337.4	330.9	325.5	323.0	321.8	321.3
22.5°	353.7	347.8	347.2	347.2	342.0	334.7	325.1	317.8	314.5	312.8	312.4
25°	364.5	359.1	358.0	352.4	339.1	325.7	312.8	306.1	303.4	302.6	302.8
27.5°	377.2	373.5	370.1	354.1	330.7	309.9	295.3	292.4	291.3	292.4	293.0
30°	392.9	389.1	381.6	352.0	317.4	289.2	275.3	275.1	278.2	280.9	281.3
32.5°	405.6	403.9	391.6	345.3	298.6	266.5	254.6	255.5	261.1	264.8	265.5
35°	415.6	418.3	400.0	334.3	276.3	245.0	235.6	236.1	239.2	244.4	244.6
37.5°	429.8	439.0	407.5	317.4	250.7	226.5	217.9	214.8	214.4	215.8	216.2
40°	458.4	472.1	412.9	292.8	225.8	209.8	200.2	194.1	188.9	185.0	183.7
42.5°	501.5	517.4	416.0	263.0	203.7	193.3	182.5	174.7	165.6	157.2	154.3
45°	580.8	586.0	416.0	231.3	184.1	177.9	167.0	157.9	146.2	136.4	134.3
47.5°	707.5	690.9	416.4	200.6	166.8	164.3	154.9	144.5	131.6	123.5	122.2
50°	898.6	840.0	425.0	175.2	152.4	152.9	146.0	134.5	122.8	116.8	115.7
52.5°	1115.0	1023.7	447.9	156.4	140.3	143.5	139.7	128.7	118.2	113.0	112.0
55°	1318.5	1192.6	467.5	143.1	130.1	135.5	135.3	125.1	115.7	110.5	109.9
57.5°	1491.6	1308.3	464.6	132.2	121.4	128.2	131.4	122.8	114.1	109.7	109.1
60°	1599.2	1369.6	423.1	122.2	114.7	123.0	129.1	122.2	114.9	113.9	114.1
62.5°	1645.9	1358.4	343.5	114.7	110.3	120.5	131.6	126.6	122.6	125.1	126.6
65°	1573.4	1261.6	252.7	109.1	106.1	121.2	137.4	133.5	122.6	124.3	124.9
67.5°	1371.9	1073.9	182.7	103.4	100.9	123.0	145.8	132.4	115.5	115.5	114.3
70°	988.6	772.4	132.6	97.8	95.7	120.3	146.2	125.3	107.4	106.8	103.6
72.5°	594.9	455.6	103.4	91.5	87.8	106.8	137.0	117.0	99.5	94.3	90.5
75°	309.0	228.3	86.7	84.7	75.3	90.5	125.3	104.1	85.1	80.5	78.4
77.5°	132.4	106.8	74.4	75.5	62.6	76.1	101.1	90.1	75.5	69.6	67.8
80°	65.3	60.7	58.8	60.5	50.0	58.8	87.2	78.8	64.0	57.3	54.6
82.5°	37.3	35.5	42.3	43.0	35.7	49.2	73.6	66.7	53.0	45.7	41.3
85°	17.3	18.6	25.6	25.9	22.1	33.8	48.2	37.5	28.2	23.4	22.3
87.5°	6.9	8.1	11.3	11.1	6.5	6.3	4.2	2.3	1.9	1.7	1.5
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)