

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: P628842

Luminaire Tested: GWS-SA1A-740-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628842
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-740-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2895.8 lumens
Efficiency: N/A
Efficacy: 147.0 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

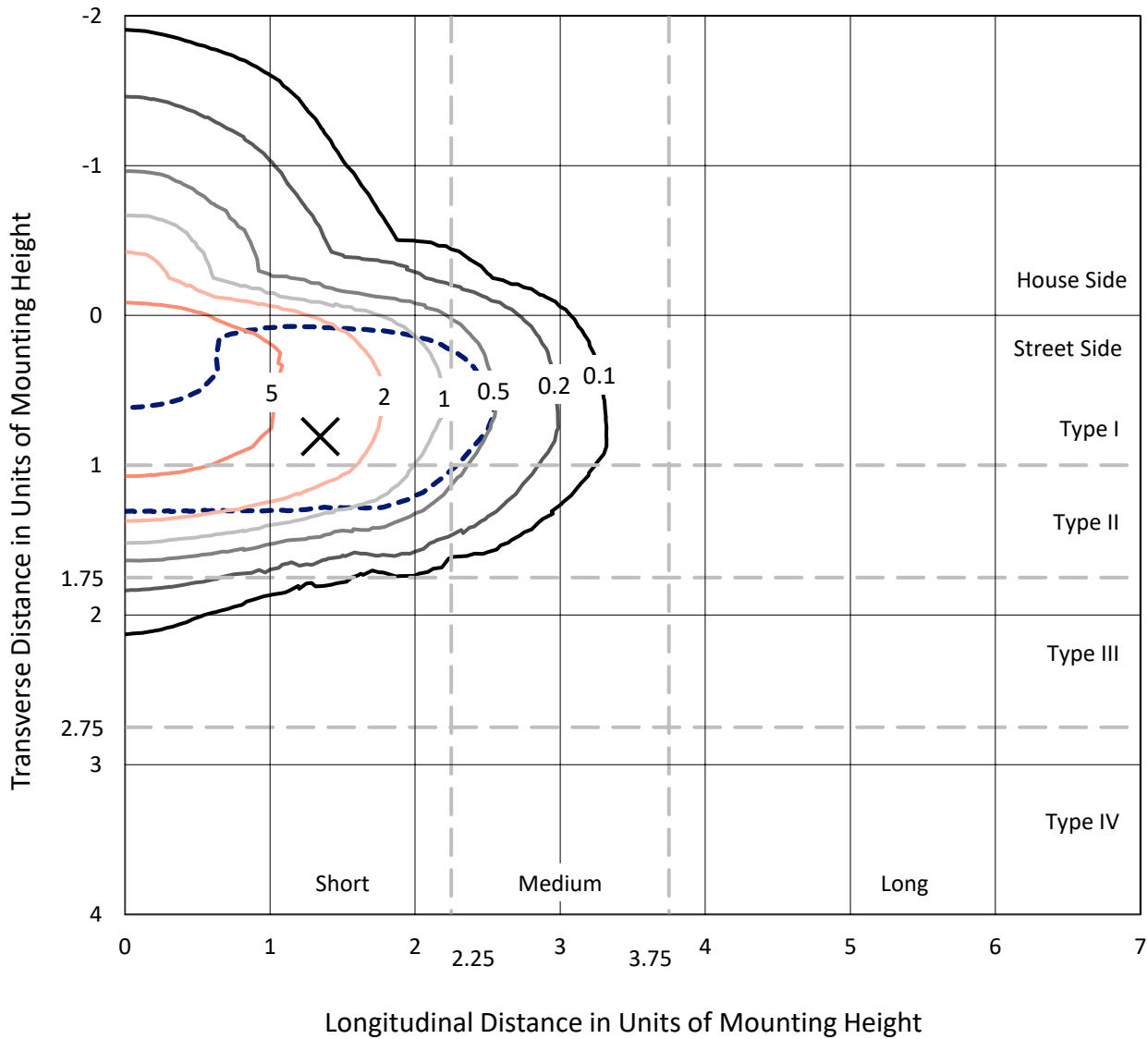


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Iso-Footcandle Lines of Horizontal Illumination

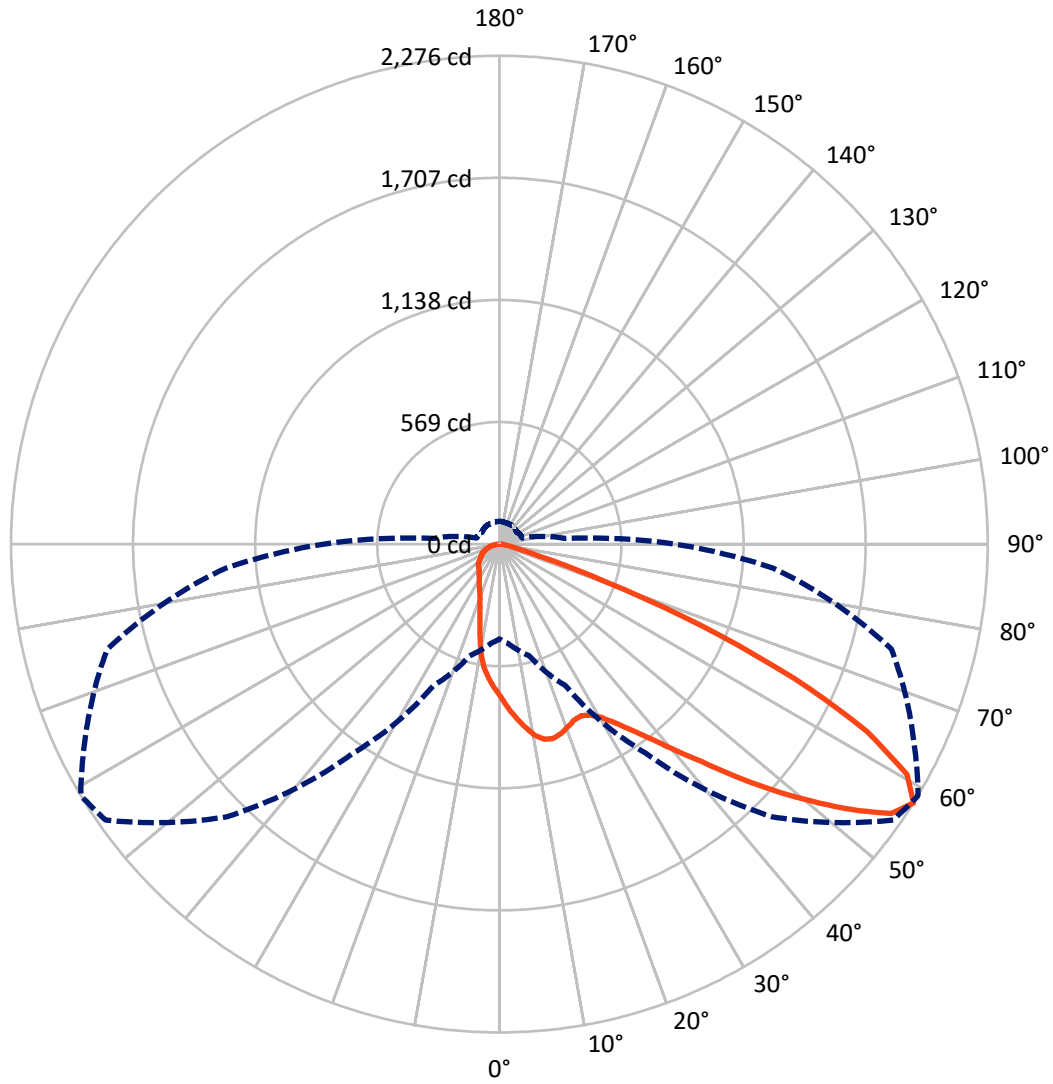
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.7 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	449.4	0.0	449.4
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	2446.4	0.0	2446.4
	% Fixture	84.5	0.0	84.5
Total	Lumens	2895.8	0.0	2895.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	2.3
10°-20°	167.3	5.8
20°-30°	271.1	9.4
30°-40°	436.1	15.1
40°-50°	677.3	23.4
50°-60°	729.5	25.2
60°-70°	423.4	14.6
70°-80°	110.5	3.8
80°-90°	14.6	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°	2895.8	100.0
0°-180°	2895.8	100.0

Coefficient of Utilization



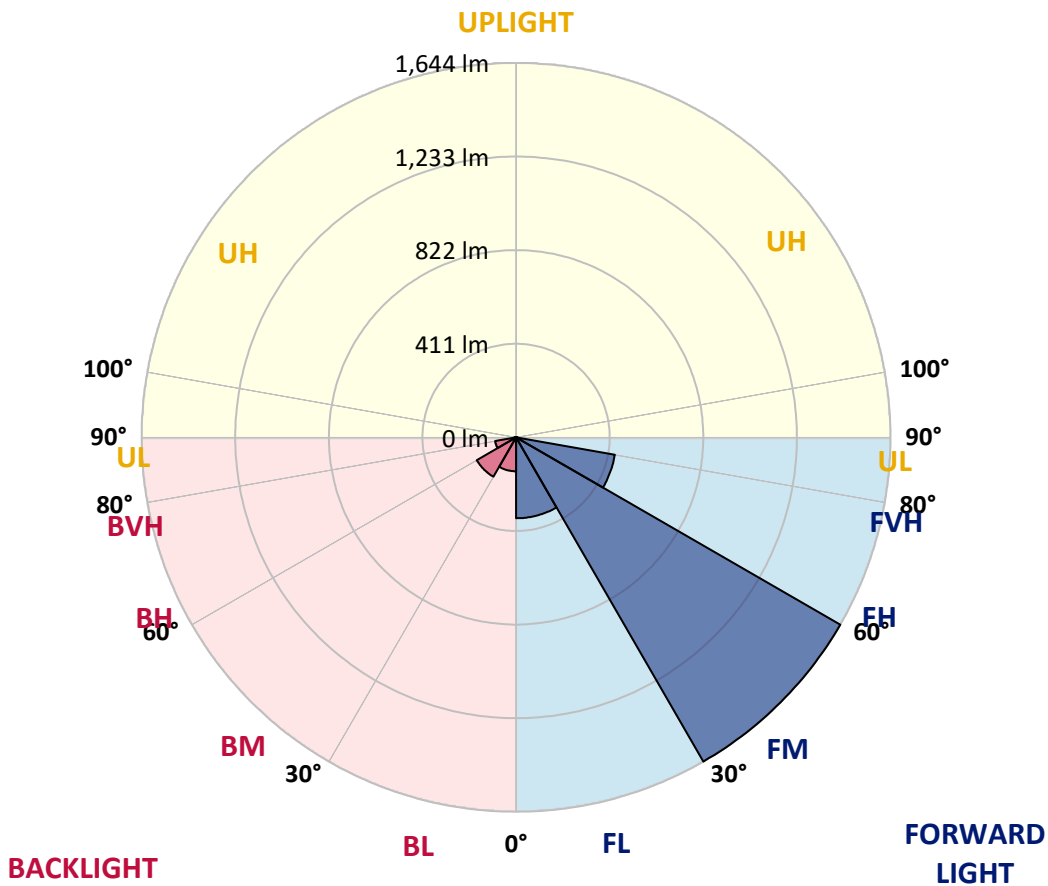
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	355.3	12.3			
FM (30°-60°)	1643.7	56.8			
FH (60°-80°)	440.4	15.2			G0/660
FVH (80°-90°)	7.0	0.2			G0/10
BL (0°-30°)	149.1	5.1	B1/500		
BM (30°-60°)	199.3	6.9	B0/220		
BH (60°-80°)	93.5	3.2	B0/110		G0/110
BVH (80°-90°)	7.6	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°	710.9	710.9	710.9	710.9	710.9	710.9	710.9	710.9	710.9	710.9	710.9
2.5°	806.3	799.5	804.2	795.9	792.4	783.2	771.4	763.5	751.2	735.3	721.5
5°	886.4	881.7	882.7	873.7	865.8	850.5	826.2	812.8	792.0	760.0	730.2
7.5°	883.9	889.4	892.5	900.2	902.5	901.1	879.2	860.5	837.7	789.6	744.7
10°	792.4	802.8	812.2	838.7	870.9	911.7	916.8	905.5	882.5	827.3	762.0
12.5°	692.7	700.7	709.0	740.8	790.2	871.7	927.0	933.9	924.7	864.6	781.6
15°	643.8	647.5	655.4	676.4	715.8	806.3	909.2	939.6	956.1	904.1	803.6
17.5°	641.8	643.4	647.3	658.5	685.8	755.7	877.2	928.2	980.8	945.9	829.3
20°	684.0	679.7	677.2	677.0	690.5	738.8	846.2	909.8	992.4	988.7	856.8
22.5°	742.5	743.9	738.6	725.5	723.9	750.8	830.7	891.3	995.9	1026.6	882.3
25°	825.4	832.6	816.9	792.0	779.8	785.7	840.3	885.6	995.5	1058.2	898.2
27.5°	922.3	927.8	911.9	879.2	854.0	839.7	868.9	902.5	998.9	1085.6	907.8
30°	1032.6	1034.4	1012.6	978.3	941.4	910.8	916.4	937.3	1016.7	1121.4	919.0
32.5°	1167.3	1175.1	1142.0	1087.8	1036.2	997.1	980.2	993.6	1055.0	1163.8	936.3
35°	1338.3	1341.0	1299.0	1221.3	1148.3	1094.1	1058.6	1065.8	1113.3	1223.2	962.4
37.5°	1499.6	1502.2	1457.6	1385.4	1281.1	1206.9	1155.5	1152.2	1187.9	1306.9	1005.0
40°	1601.9	1609.5	1589.5	1544.2	1444.6	1344.5	1274.7	1263.5	1285.7	1409.5	1064.4
42.5°	1657.0	1660.2	1659.8	1665.7	1606.4	1506.9	1409.3	1386.9	1401.7	1520.2	1124.3
45°	1657.4	1665.5	1687.4	1744.2	1746.9	1684.9	1579.3	1544.2	1530.6	1631.7	1186.9
47.5°	1583.2	1591.9	1651.9	1763.8	1846.4	1860.4	1783.0	1712.6	1655.1	1727.7	1238.2
50°	1358.5	1380.5	1494.7	1692.7	1865.9	2001.1	1977.2	1881.8	1765.8	1801.9	1270.5
52.5°	1163.4	1162.6	1232.9	1491.6	1784.2	2063.1	2165.2	2055.9	1875.3	1849.0	1278.6
55°	851.9	856.6	928.6	1140.8	1566.1	2003.1	2268.6	2216.2	2000.9	1874.1	1275.4
57.5°	441.8	465.0	538.8	728.0	1189.9	1796.8	2241.0	2275.9	2128.5	1891.8	1279.6
60°	223.2	218.7	245.2	347.6	689.5	1403.4	2071.4	2182.5	2151.5	1905.7	1282.3
62.5°	149.0	147.8	140.5	161.0	281.7	831.1	1765.8	1921.6	1991.5	1873.1	1248.4
65°	129.0	126.6	113.1	112.3	136.8	344.7	1294.3	1510.6	1646.0	1728.1	1167.5
67.5°	116.2	112.5	98.9	92.1	98.3	151.5	729.4	1013.2	1215.4	1461.5	990.1
70°	103.8	101.9	88.3	78.5	77.9	92.3	268.7	522.9	743.7	997.1	723.9
72.5°	93.0	89.7	78.1	68.7	64.0	65.4	116.6	201.4	384.9	622.0	433.0
75°	80.5	78.1	67.9	58.5	52.8	47.9	71.1	93.2	175.5	295.6	204.5
77.5°	62.2	60.5	53.6	46.5	43.2	35.7	43.2	58.7	81.1	124.6	106.4
80°	36.1	37.1	40.0	36.3	31.8	25.5	28.1	33.8	48.7	67.5	60.3
82.5°	18.1	19.4	25.9	21.0	19.0	14.9	16.7	20.0	25.5	37.3	23.6
85°	1.4	1.4	4.7	5.3	6.5	5.3	6.7	8.2	11.6	14.9	8.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.0	1.8	3.5	2.2
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°	710.9	710.9	710.9	710.9	710.9	710.9	710.9	710.9	710.9	710.9	710.9
2.5°	712.1	701.7	689.3	679.1	663.4	655.0	644.4	631.4	626.1	623.6	622.2
5°	713.5	695.2	668.7	644.2	617.1	595.7	571.8	547.0	532.7	529.2	526.8
7.5°	718.8	693.1	650.9	610.6	560.2	513.5	468.1	423.0	400.0	391.2	390.4
10°	726.2	692.3	633.0	565.9	480.9	407.1	353.9	318.6	303.8	298.9	297.2
12.5°	735.3	691.7	609.3	503.9	389.4	319.7	289.3	283.6	285.6	285.2	285.2
15°	746.9	692.5	580.8	433.8	315.0	277.5	278.1	284.8	291.1	292.1	292.1
17.5°	759.6	691.7	539.4	363.5	270.3	267.5	276.8	286.2	291.9	292.7	292.7
20°	773.2	687.8	487.2	297.2	250.7	261.1	271.3	278.7	282.1	283.0	283.0
22.5°	781.4	676.8	430.6	251.6	238.3	251.2	257.9	265.4	265.8	259.3	259.1
25°	780.2	656.2	365.9	222.2	225.1	236.3	244.8	239.5	233.0	229.3	228.7
27.5°	772.4	625.2	300.1	200.0	209.4	222.0	219.4	214.9	213.2	209.2	208.8
30°	762.6	587.1	241.0	182.7	193.1	204.7	200.6	200.2	198.6	194.1	194.1
32.5°	753.3	547.8	196.3	169.8	182.7	183.5	189.2	189.6	188.8	181.0	180.2
35°	750.6	508.4	166.1	159.6	172.5	172.1	180.2	180.0	165.9	155.1	154.9
37.5°	758.6	468.5	148.2	151.3	158.4	163.7	170.2	158.4	153.7	147.2	146.8
40°	775.5	431.6	139.0	146.4	149.4	157.2	147.0	147.8	146.6	141.7	141.1
42.5°	797.9	400.2	133.9	144.7	144.3	146.4	135.2	138.4	140.3	136.6	136.0
45°	819.5	372.9	131.3	138.6	140.7	128.8	126.6	129.7	132.5	131.1	130.5
47.5°	835.4	349.2	129.9	130.3	136.0	122.9	119.3	120.7	124.2	124.8	124.6
50°	840.3	329.0	128.2	123.3	122.1	117.0	114.2	113.8	117.8	120.7	121.1
52.5°	830.9	311.1	123.9	117.2	111.3	112.1	111.1	109.1	113.1	117.0	117.4
55°	817.1	300.9	117.2	111.3	104.4	107.6	108.0	106.2	108.9	111.5	111.5
57.5°	818.1	306.8	110.7	105.8	98.3	102.5	104.8	104.0	104.0	106.0	106.2
60°	824.8	315.4	106.4	98.9	92.1	96.6	101.7	100.9	99.1	101.7	101.7
62.5°	805.5	304.0	103.6	92.1	85.6	90.9	97.0	96.6	94.6	98.9	99.3
65°	748.4	273.4	100.3	83.8	79.1	85.2	90.5	91.9	90.1	95.8	96.8
67.5°	627.3	230.0	94.0	75.8	72.6	78.3	83.4	85.4	84.0	90.7	91.5
70°	467.7	186.1	84.0	67.1	64.6	69.7	74.4	75.2	75.4	83.4	84.2
72.5°	298.2	144.7	70.7	57.3	55.5	59.3	62.8	66.1	67.5	75.0	74.8
75°	166.4	107.6	56.9	48.5	45.3	48.3	52.4	56.3	60.3	71.4	72.6
77.5°	95.8	75.6	45.1	38.9	35.1	38.3	41.8	47.3	59.5	69.1	67.9
80°	54.0	49.1	34.0	28.5	26.1	28.5	31.2	41.6	46.9	51.0	51.6
82.5°	25.3	27.5	23.2	17.5	17.5	19.2	21.6	32.2	35.5	28.9	25.3
85°	9.2	12.4	11.4	9.0	8.0	7.7	13.5	18.3	11.4	10.2	8.8
87.5°	2.4	3.5	3.3	2.2	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)