

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: P628880

Luminaire Tested: GWS-SA1A-740-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628880
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-740-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2891 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

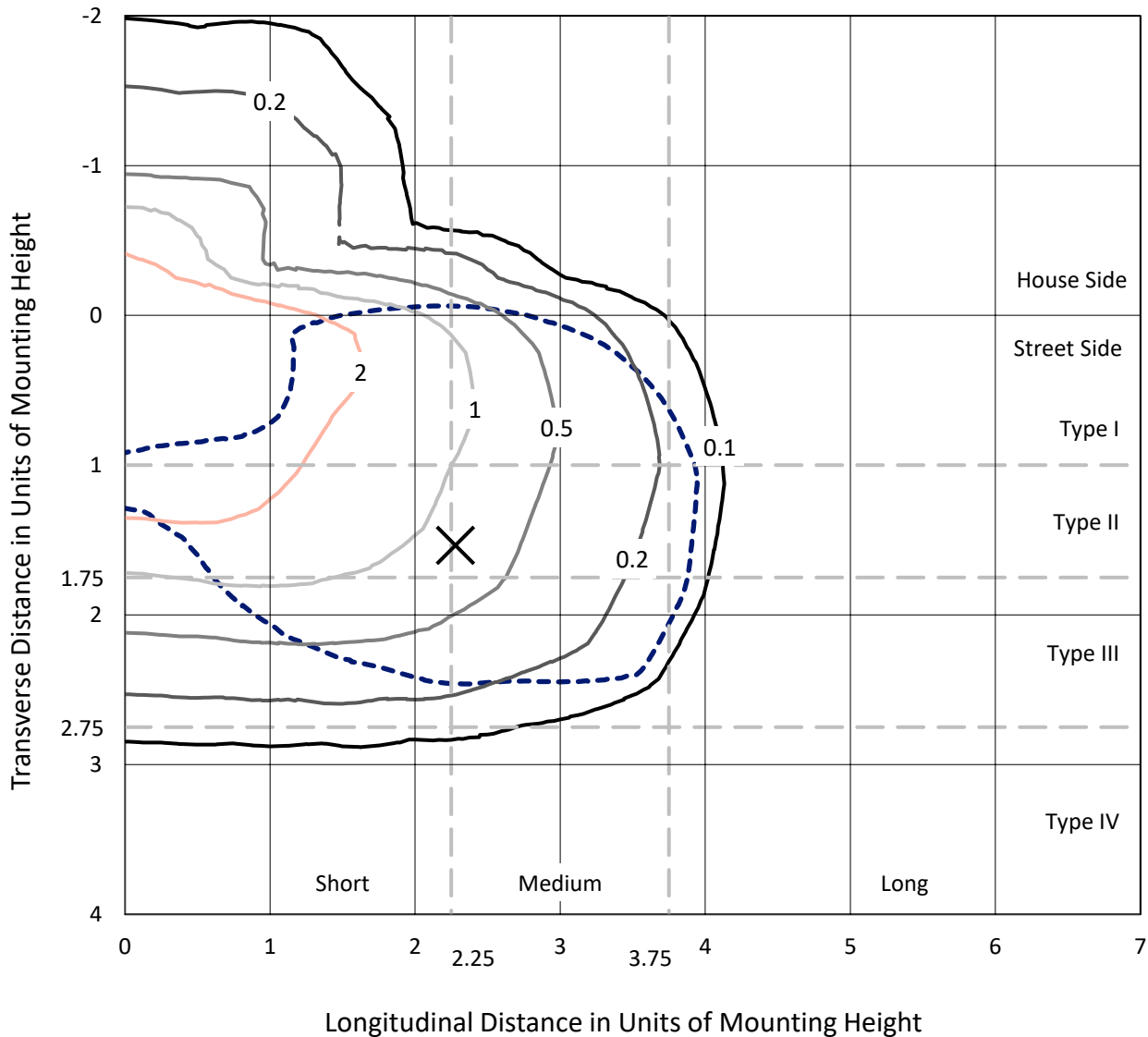
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

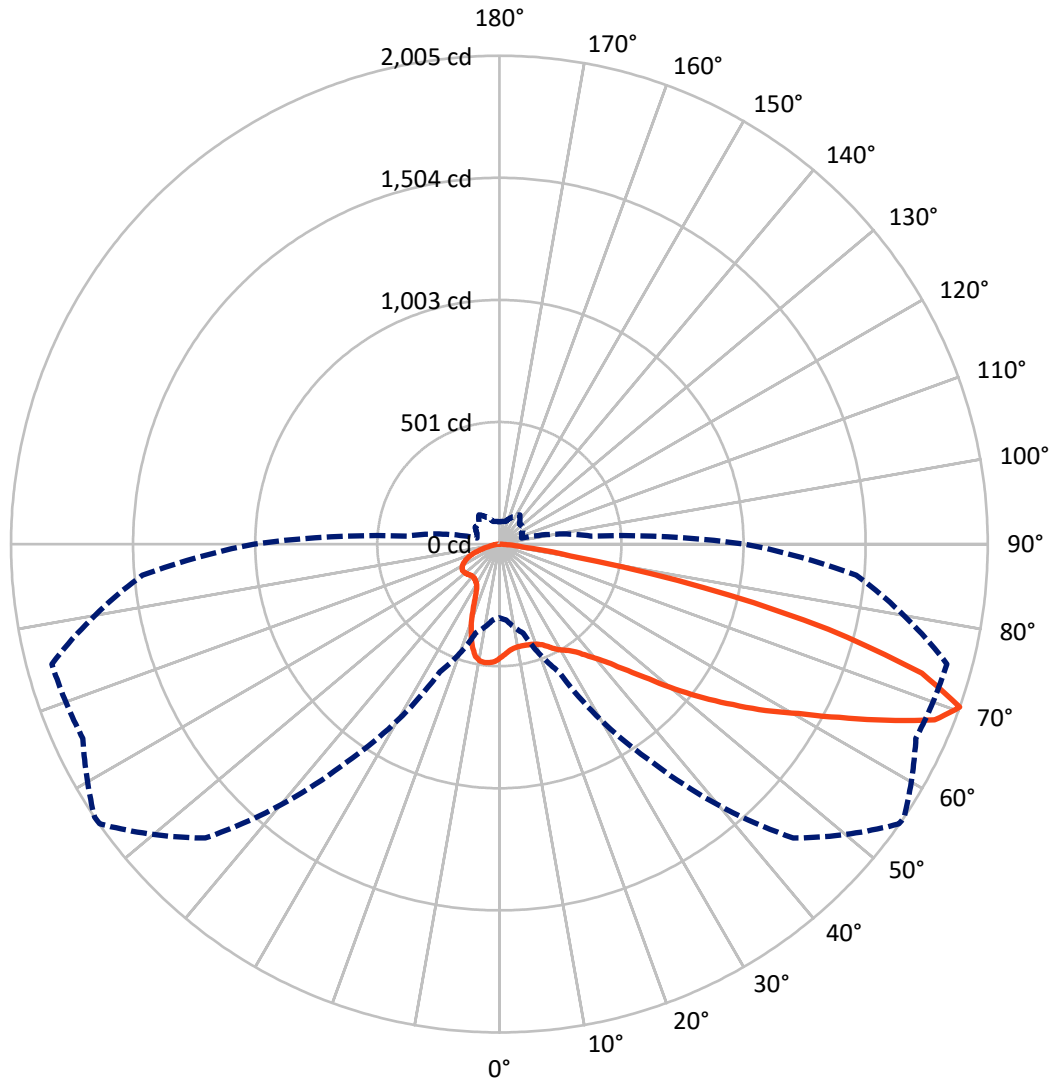
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	555.8	0.0	555.8
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	2335.2	0.0	2335.2
	% Fixture	80.8	0.0	80.8
Total	Lumens	2891.0	0.0	2891.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	1.5
10°-20°	117.0	4.0
20°-30°	193.4	6.7
30°-40°	289.2	10.0
40°-50°	430.4	14.9
50°-60°	611.9	21.2
60°-70°	757.9	26.2
70°-80°	418.5	14.5
80°-90°	29.5	1.0
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°	2891.0	100.0
0°-180°	2891.0	100.0

Coefficient of Utilization



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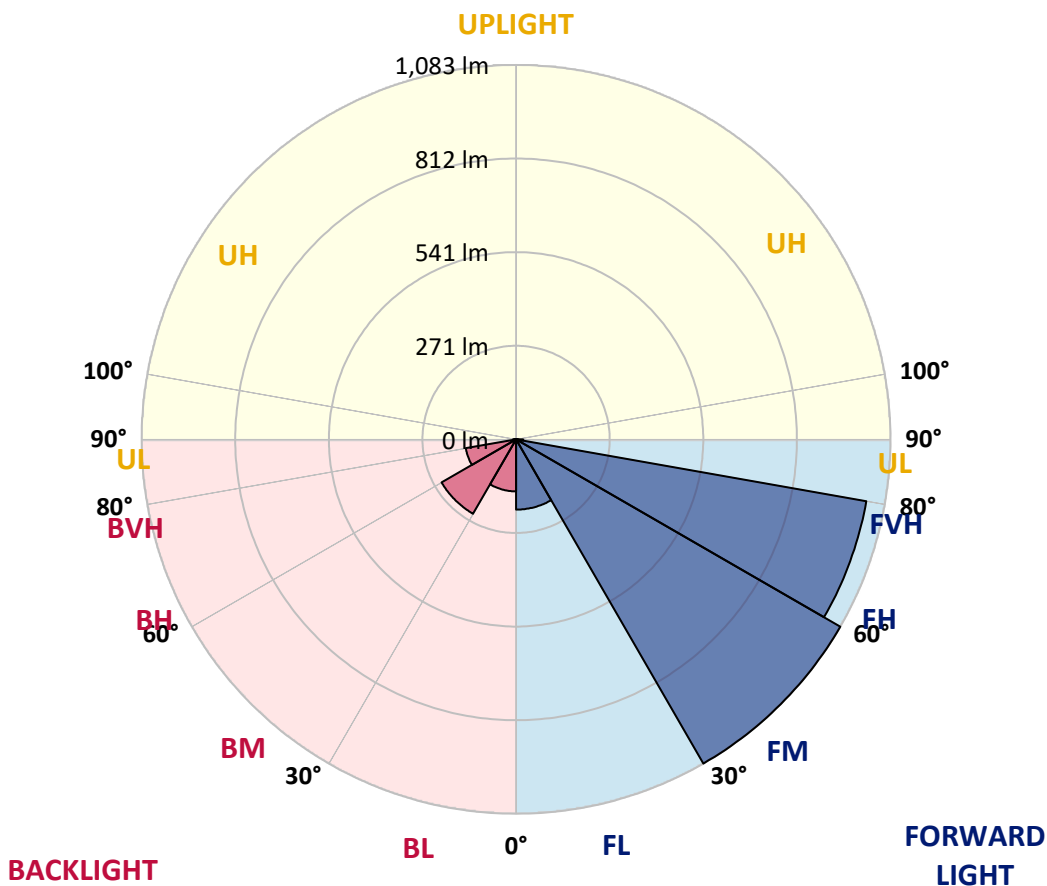
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	203.2	7.0			
FM (30°-60°)	1082.9	37.5			
FH (60°-80°)	1028.6	35.6			G1/1800
FVH (80°-90°)	20.5	0.7			G1/100
BL (0°-30°)	150.5	5.2	B1/500		
BM (30°-60°)	248.6	8.6	B1/1000		
BH (60°-80°)	147.7	5.1	B1/500		G1/500
BVH (80°-90°)	9.0	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-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7
2.5°	436.7	434.2	437.1	438.5	442.2	447.5	452.2	452.4	454.8	460.7	466.4
5°	416.9	415.7	416.5	420.8	424.7	431.4	438.5	439.1	446.1	457.7	469.1
7.5°	401.6	400.0	403.0	408.5	413.4	421.0	430.4	431.2	441.0	458.5	476.0
10°	379.6	378.4	384.1	391.4	402.0	414.5	426.9	427.9	440.8	463.8	488.3
12.5°	370.0	370.0	372.5	379.4	391.0	407.5	426.3	427.9	444.0	472.0	504.0
15°	384.9	385.9	383.9	383.5	388.2	403.9	427.1	429.5	450.1	480.3	519.5
17.5°	414.9	415.9	410.6	402.2	397.5	407.3	430.2	432.8	456.7	489.5	536.2
20°	456.9	458.1	446.5	433.6	417.5	417.3	436.1	438.5	465.0	499.5	553.9
22.5°	506.0	506.8	492.1	471.7	447.1	435.9	446.3	448.7	475.8	513.3	573.1
25°	562.9	565.3	547.6	518.0	484.6	461.4	463.2	466.0	495.2	531.9	595.7
27.5°	623.6	626.7	606.3	573.7	527.6	489.5	485.0	487.4	515.8	543.3	607.7
30°	685.8	688.1	667.7	630.4	573.9	521.3	503.3	504.8	524.8	548.8	620.0
32.5°	754.9	753.1	733.5	690.5	627.3	559.4	520.5	520.1	534.7	559.8	637.5
35°	819.7	822.4	801.6	754.1	686.0	606.5	546.2	544.5	555.9	577.8	662.2
37.5°	898.2	897.4	872.6	821.2	744.9	651.6	582.2	579.4	583.5	605.7	696.6
40°	954.3	960.0	943.9	896.0	813.8	707.0	624.4	618.1	619.1	640.1	742.7
42.5°	1000.2	1005.5	1007.1	976.5	892.7	775.5	677.0	670.7	671.3	701.1	799.4
45°	1035.4	1042.6	1065.6	1056.6	981.6	854.6	748.2	741.7	742.1	775.1	867.9
47.5°	1049.9	1057.7	1104.3	1125.8	1076.0	949.2	836.7	827.1	828.5	865.0	946.1
50°	1045.2	1055.6	1118.8	1179.0	1155.1	1045.4	942.5	935.8	930.2	983.3	1031.2
52.5°	1004.9	1016.3	1117.4	1212.8	1219.7	1136.4	1051.8	1047.9	1046.7	1108.8	1126.2
55°	886.0	905.2	1068.3	1221.8	1270.3	1222.0	1170.2	1163.7	1170.0	1243.4	1222.2
57.5°	820.2	834.4	972.0	1211.8	1311.7	1303.5	1288.4	1289.1	1296.2	1389.6	1338.6
60°	782.6	799.4	918.6	1184.5	1351.4	1402.6	1412.2	1412.2	1425.0	1547.1	1456.8
62.5°	732.9	749.8	868.7	1131.9	1388.1	1519.2	1567.7	1567.1	1572.2	1716.2	1572.4
65°	632.0	647.7	768.4	1048.9	1406.1	1647.7	1744.5	1742.7	1732.5	1866.6	1648.9
67.5°	458.9	473.8	588.6	891.1	1341.4	1751.2	1926.5	1927.4	1866.4	1961.4	1653.0
70°	302.5	312.7	378.4	578.8	1090.9	1706.6	2002.8	2005.2	1887.0	1902.3	1471.1
72.5°	188.8	195.9	236.3	345.1	644.6	1350.8	1807.1	1813.8	1697.6	1671.7	1208.7
75°	125.4	130.3	157.2	201.2	298.3	731.1	1373.7	1395.3	1360.6	1310.5	842.2
77.5°	75.4	79.5	100.1	127.8	132.1	285.6	801.8	857.7	862.6	684.2	352.7
80°	34.5	39.1	55.2	73.0	70.3	99.5	282.8	295.8	349.0	217.3	111.3
82.5°	20.4	22.4	36.7	36.3	30.0	48.3	101.7	104.4	88.7	79.5	47.5
85°	8.2	9.6	15.5	13.7	11.0	15.7	38.3	40.2	38.5	34.7	17.5
87.5°	0.0	0.0	0.0	0.0	0.2	0.4	3.5	3.7	5.3	9.6	5.3
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°	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7	466.7
2.5°	470.1	468.9	475.0	479.7	481.7	483.8	481.9	481.3	481.3	477.3	475.2
5°	475.2	475.8	484.2	488.1	488.1	486.4	481.5	478.1	476.8	471.5	470.1
7.5°	484.8	487.4	495.2	495.0	489.3	480.3	468.1	458.7	450.1	446.5	444.2
10°	500.5	504.0	509.3	500.7	484.8	461.1	435.3	414.9	402.6	392.9	392.9
12.5°	518.4	521.7	520.7	500.9	468.1	423.8	386.5	363.1	346.0	337.0	337.0
15°	536.4	539.0	528.0	491.5	433.2	374.3	333.5	305.4	290.5	282.2	282.2
17.5°	554.5	554.3	531.1	469.9	387.8	319.5	279.5	257.7	252.6	251.2	251.0
20°	572.1	567.4	527.2	433.8	335.0	264.2	238.9	240.4	247.9	251.2	251.6
22.5°	591.8	580.2	515.8	387.8	275.0	225.9	227.5	239.3	250.3	255.2	255.9
25°	612.0	591.2	496.6	333.7	224.9	211.8	224.5	237.7	250.1	256.5	257.1
27.5°	620.2	591.2	464.0	271.1	198.2	205.9	219.8	232.6	245.7	253.0	254.4
30°	626.9	586.1	418.3	214.7	187.2	200.2	212.2	224.0	236.9	245.9	247.5
32.5°	636.3	581.6	363.1	180.4	182.1	194.7	203.1	213.0	224.7	230.6	230.0
35°	647.3	574.7	296.4	164.1	177.8	190.0	195.9	201.8	196.5	196.3	196.9
37.5°	663.0	568.6	238.3	156.8	174.9	186.7	191.6	179.0	171.7	168.6	167.4
40°	685.6	566.1	188.0	152.5	174.5	186.5	183.1	163.5	153.5	142.9	142.7
42.5°	714.1	564.3	155.3	150.5	175.9	191.2	171.2	153.3	132.7	128.0	127.6
45°	750.8	561.5	139.0	150.0	179.4	194.9	170.0	139.2	125.2	123.1	123.1
47.5°	795.1	557.0	131.7	150.0	183.3	193.3	166.4	136.2	121.7	124.0	125.4
50°	845.8	551.3	127.8	149.6	187.2	193.3	158.6	135.6	120.9	132.5	137.2
52.5°	900.1	544.7	125.2	148.0	189.8	193.5	159.0	137.6	121.7	134.6	138.4
55°	960.0	543.7	121.5	144.5	190.6	188.2	160.0	142.1	122.9	121.9	122.1
57.5°	1035.6	555.9	118.9	139.4	187.4	177.4	162.1	145.4	121.5	121.7	123.1
60°	1114.7	579.0	121.1	134.6	180.6	167.2	163.5	143.7	114.6	111.3	111.7
62.5°	1182.0	596.5	122.9	132.3	170.8	158.2	162.1	140.1	110.7	109.9	111.7
65°	1210.2	582.0	118.4	127.6	156.6	147.2	159.0	135.4	107.4	104.4	104.6
67.5°	1179.0	514.2	109.7	117.2	140.5	133.1	154.1	129.3	103.0	99.3	98.5
70°	1007.1	377.8	94.6	100.7	120.9	116.6	146.6	121.3	95.8	93.2	91.3
72.5°	811.6	267.5	78.5	80.1	94.8	98.3	133.5	111.3	87.7	80.1	77.5
75°	564.9	168.0	65.4	63.8	68.5	75.0	104.2	92.4	75.6	67.7	65.2
77.5°	243.0	86.2	51.2	50.4	45.7	52.0	79.9	77.1	63.4	54.2	52.8
80°	81.3	49.9	36.9	35.5	30.4	36.5	56.3	61.6	49.7	40.2	37.7
82.5°	40.8	28.9	23.4	21.2	20.4	23.0	33.2	38.3	34.5	27.7	23.4
85°	20.0	16.5	12.8	12.6	10.6	10.0	13.9	16.3	15.5	11.4	10.8
87.5°	7.3	6.5	4.1	3.3	2.0	1.4	0.8	0.8	0.6	0.6	0.6
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)