

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P451308

Luminaire Tested: **GALN-SA2A-830-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451308
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-830-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7295 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

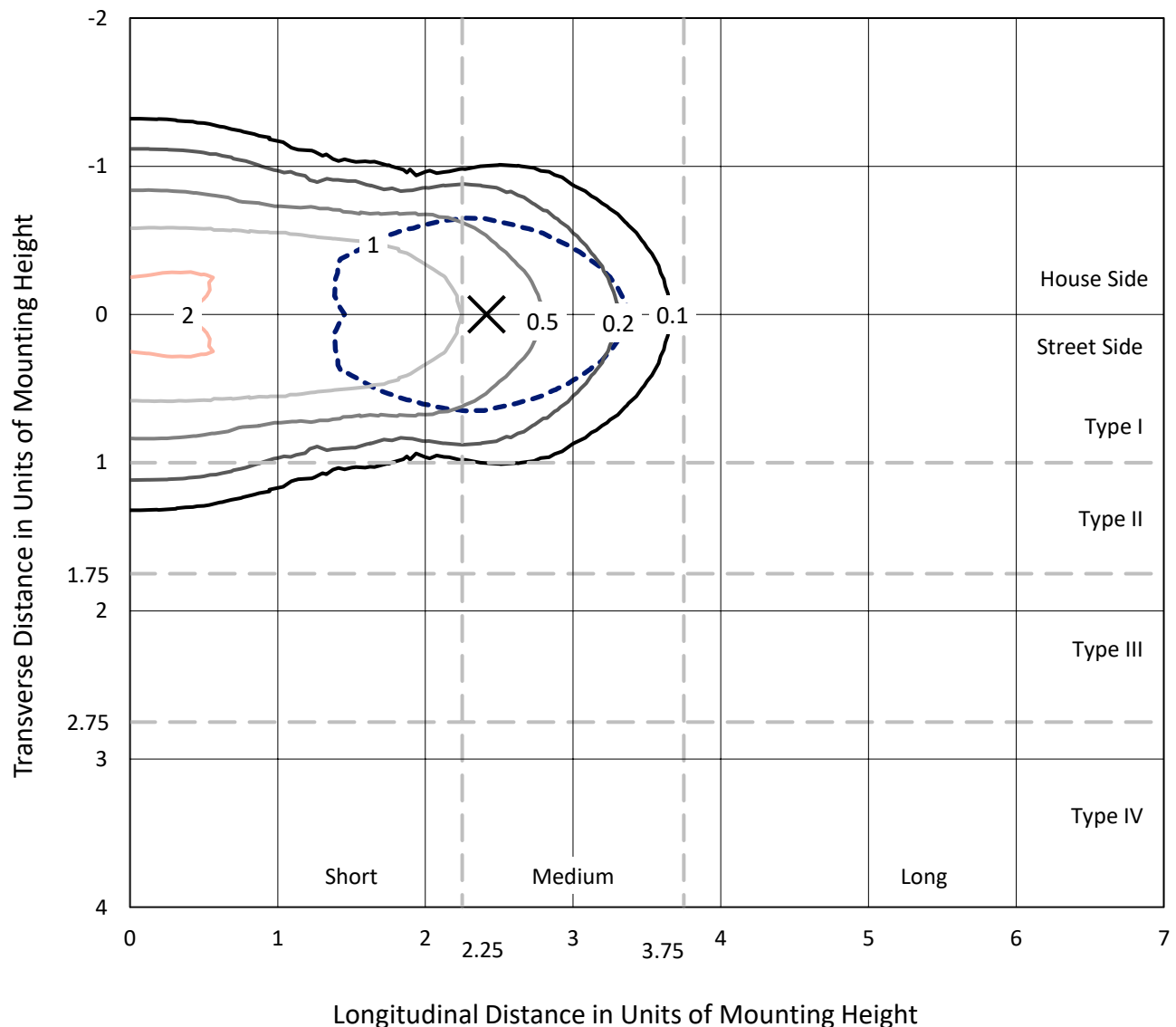


REPORT NUMBER: P451308

CATALOG NUMBER: GALN-SA2A-830-U-T1

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

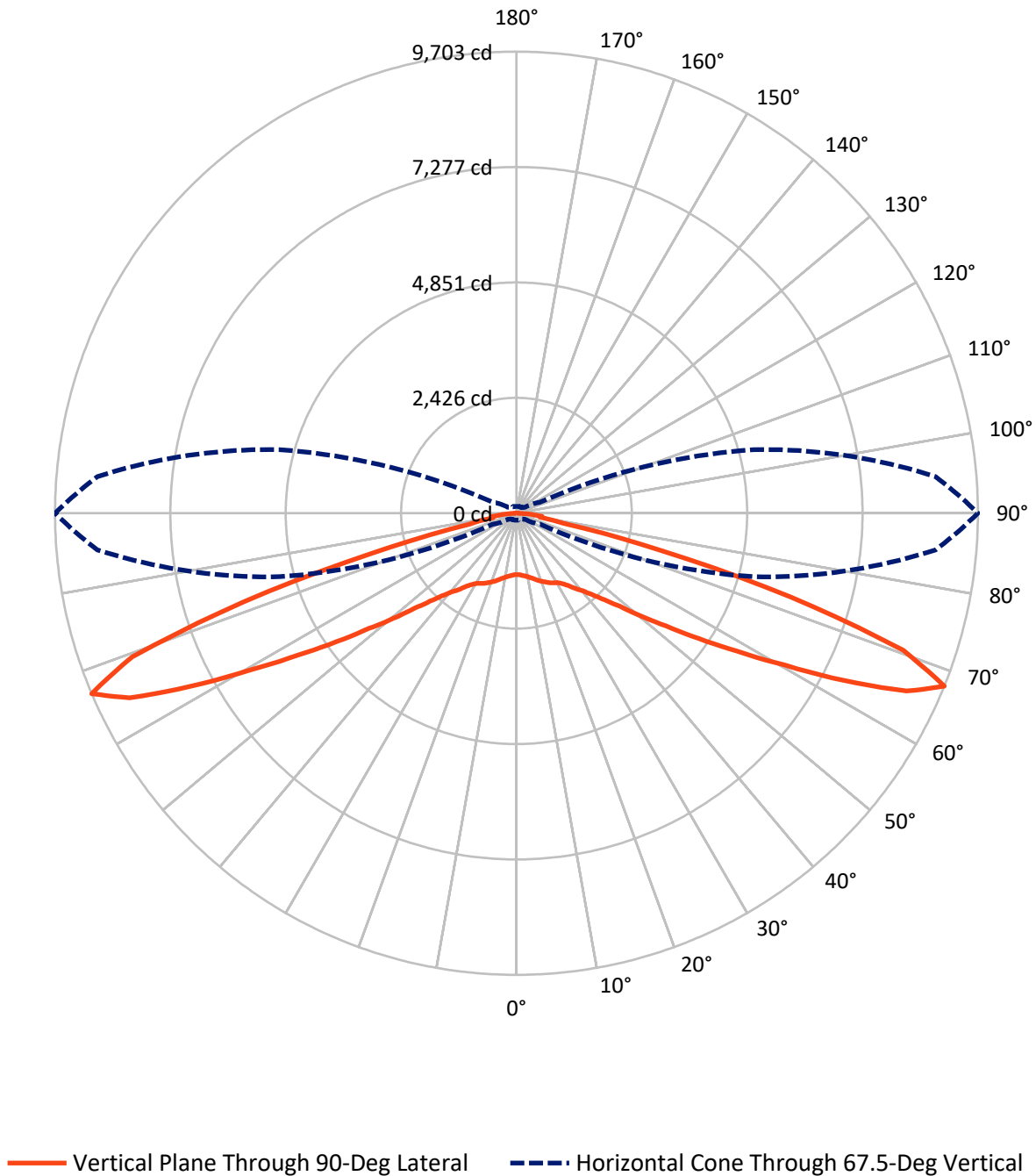


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type I - Short - N/A

REPORT NUMBER: P451308

CATALOG NUMBER: GALN-SA2A-830-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P451308

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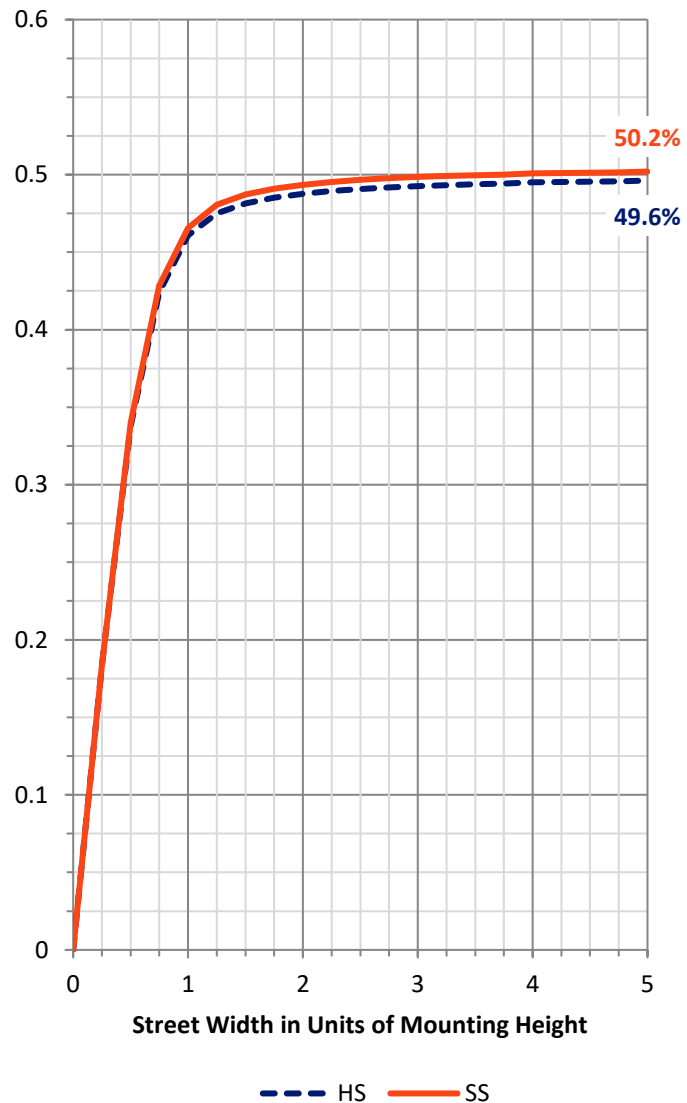
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3647.5	0.0	3647.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3647.5	0.0	3647.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7295.0	0.0	7295.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	1.8
10°-20°	412.0	5.6
20°-30°	689.5	9.5
30°-40°	934.1	12.8
40°-50°	1183.2	16.2
50°-60°	1478.1	20.3
60°-70°	1737.4	23.8
70°-80°	664.7	9.1
80°-90°	67.3	0.9
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°	7295.0	100.0
0°-180°	7295.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451308

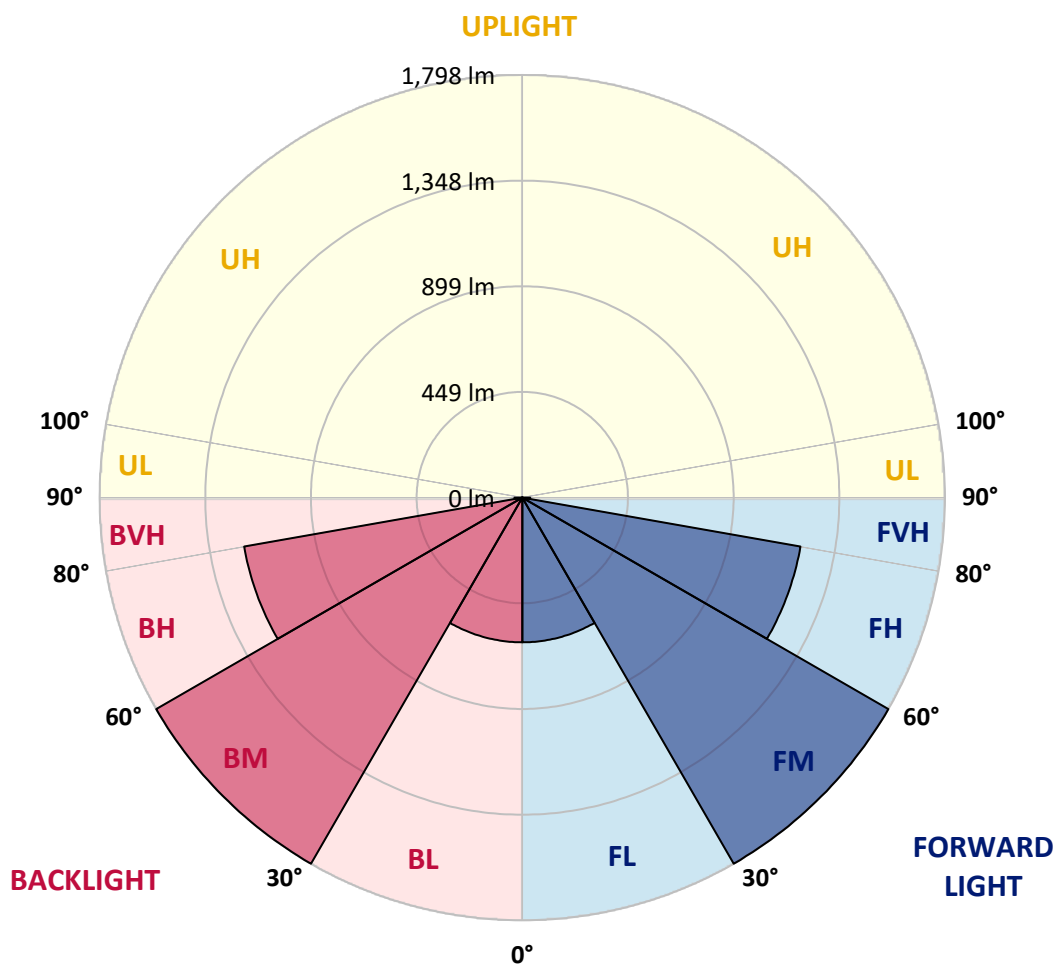
CATALOG NUMBER: GALN-SA2A-830-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	615.1	8.4			
FM	(30°-60°)	1797.7	24.6			
FH	(60°-80°)	1201.0	16.5			G1/1800
FVH	(80°-90°)	33.7	0.5			G1/100
BL	(0°-30°)	615.1	8.4	B2/1000		
BM	(30°-60°)	1797.7	24.6	B2/2500		
BH	(60°-80°)	1201.0	16.5	B3/2500		G3/2500
BVH	(80°-90°)	33.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short





REPORT NUMBER: P451308

CATALOG NUMBER: GALN-SA2A-830-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4
2.5°	1308.0	1307.2	1307.6	1307.2	1308.4	1307.6	1302.8	1298.7	1295.5	1295.9	1294.7
5°	1335.9	1336.3	1336.7	1334.7	1337.5	1335.9	1328.2	1321.7	1315.3	1312.9	1312.0
7.5°	1358.9	1360.9	1362.1	1364.2	1369.0	1369.0	1365.0	1355.7	1341.5	1333.5	1333.0
10°	1381.9	1383.5	1387.2	1393.6	1401.7	1409.4	1407.8	1395.3	1377.1	1363.3	1360.1
12.5°	1390.0	1392.0	1404.1	1422.7	1440.9	1455.9	1455.9	1445.8	1422.3	1401.3	1395.3
15°	1361.7	1365.4	1387.2	1426.8	1474.4	1507.2	1514.4	1500.3	1475.2	1442.9	1435.7
17.5°	1305.6	1314.5	1346.4	1405.0	1484.1	1552.0	1573.0	1566.1	1533.8	1492.6	1484.1
20°	1245.4	1255.1	1289.0	1366.6	1476.0	1578.2	1639.2	1640.9	1600.9	1541.1	1528.6
22.5°	1179.1	1186.4	1230.0	1320.9	1451.8	1584.3	1696.2	1724.1	1669.9	1589.6	1571.8
25°	1104.8	1112.9	1158.5	1256.7	1406.2	1577.4	1748.3	1809.7	1742.3	1641.3	1618.6
27.5°	1033.7	1037.0	1085.8	1185.6	1346.0	1559.7	1786.7	1888.5	1822.2	1684.1	1655.4
30°	965.5	973.1	1016.3	1114.9	1276.9	1524.9	1819.8	1978.2	1908.3	1728.9	1692.2
32.5°	893.1	902.4	949.3	1049.1	1207.8	1472.8	1840.0	2076.3	2028.3	1801.6	1762.5
35°	823.7	829.7	877.0	973.9	1140.4	1412.2	1843.6	2187.0	2183.0	1911.9	1859.8
37.5°	752.6	761.5	809.1	902.0	1068.9	1348.0	1825.5	2304.6	2369.6	2065.0	2008.9
40°	684.3	692.0	738.8	832.5	987.7	1269.6	1782.2	2412.0	2587.3	2222.6	2143.0
42.5°	610.0	612.0	663.3	758.6	908.1	1178.7	1720.0	2507.7	2830.1	2433.8	2334.9
45°	525.5	530.8	578.5	672.2	816.8	1076.9	1635.6	2586.9	3137.9	2726.7	2591.8
47.5°	441.1	445.6	489.2	581.7	717.0	960.2	1505.5	2656.4	3453.8	3098.7	2921.8
50°	358.7	361.1	396.7	478.7	604.7	837.4	1344.4	2678.6	3810.9	3625.5	3399.7
52.5°	283.6	287.2	314.3	378.5	484.7	692.4	1170.3	2623.7	4227.8	4250.0	3931.7
55°	229.9	231.1	251.3	298.5	378.9	540.5	960.2	2470.6	4676.2	5050.2	4644.3
57.5°	197.9	198.7	210.1	236.3	291.7	407.6	744.9	2180.9	5078.9	5987.8	5465.9
60°	179.8	180.2	186.6	202.0	231.1	312.7	533.6	1772.1	5476.4	7031.2	6487.1
62.5°	168.4	168.4	172.9	181.4	195.5	239.9	386.6	1278.5	5748.7	8090.0	7745.8
65°	157.5	157.5	160.8	166.8	174.5	196.3	285.6	833.8	5741.8	8861.1	9011.8
67.5°	145.0	145.0	147.4	153.5	157.9	168.9	220.6	546.1	5157.7	8844.2	9702.6
70°	130.1	130.1	133.3	138.6	142.2	149.1	174.1	373.7	3789.1	7551.5	8628.9
72.5°	115.1	115.5	117.6	122.8	125.6	129.7	144.6	261.8	2324.4	5141.9	6033.5
75°	98.6	99.4	101.4	106.6	109.1	110.7	122.0	186.6	1175.9	2772.3	3156.5
77.5°	79.6	81.2	82.4	88.1	89.7	92.1	100.6	134.9	516.3	996.2	1005.0
80°	58.2	60.2	63.8	69.1	70.3	71.9	76.8	95.7	233.9	454.9	494.0
82.5°	42.8	45.6	41.2	48.1	48.1	46.1	54.1	64.2	107.5	450.4	538.9
85°	23.4	23.8	21.4	24.6	26.3	25.9	28.7	31.5	52.1	300.5	309.8
87.5°	5.7	6.1	6.5	7.7	9.3	9.3	10.1	8.9	17.0	97.4	55.7
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)