

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: P529967

Luminaire Tested: **GALN-SA5A-830-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529967
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-830-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9493 lumens
Efficiency: N/A
Efficacy: 61.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

Input Watts (W): 154
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

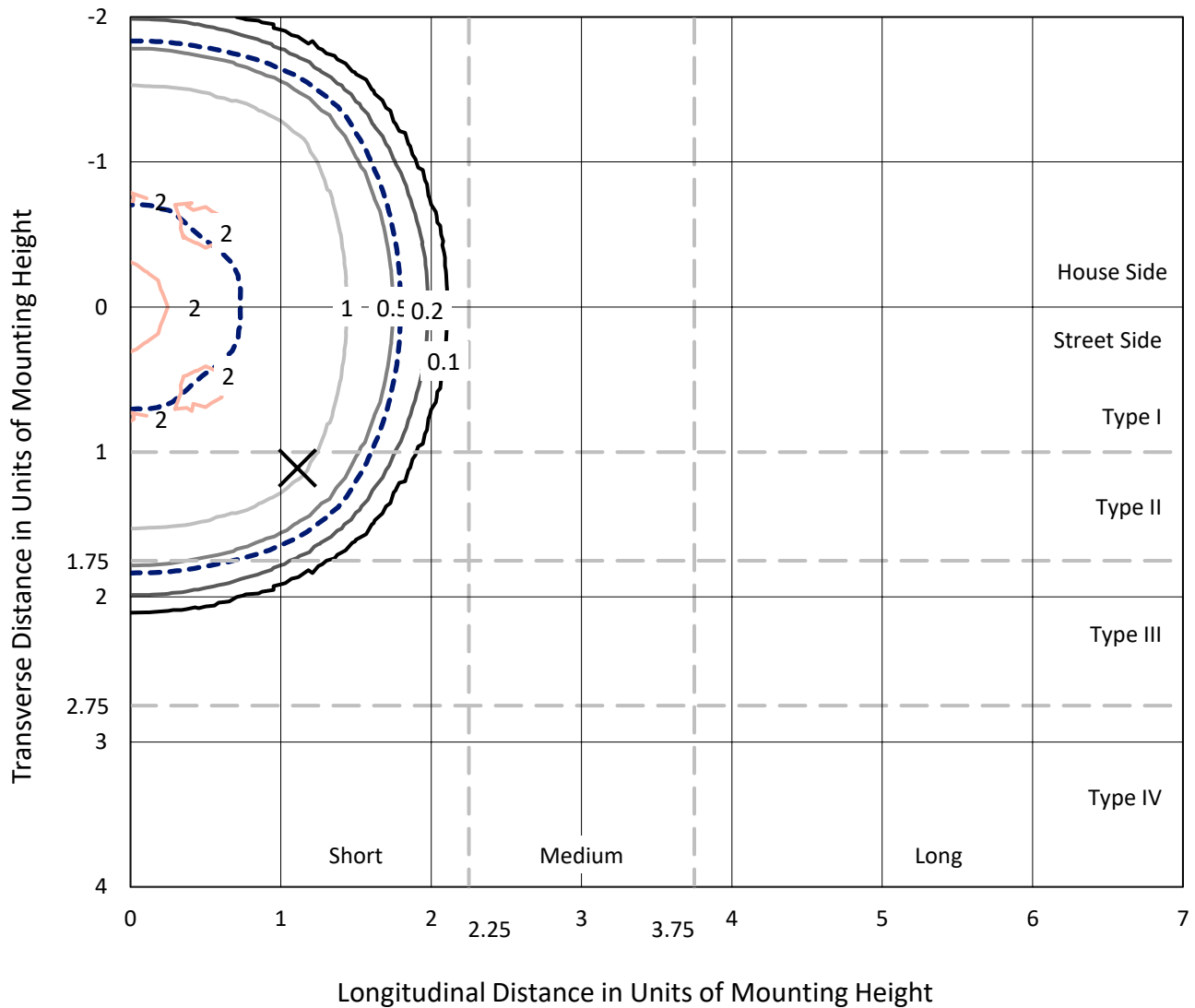


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Iso-Footcandle Lines of Horizontal Illumination

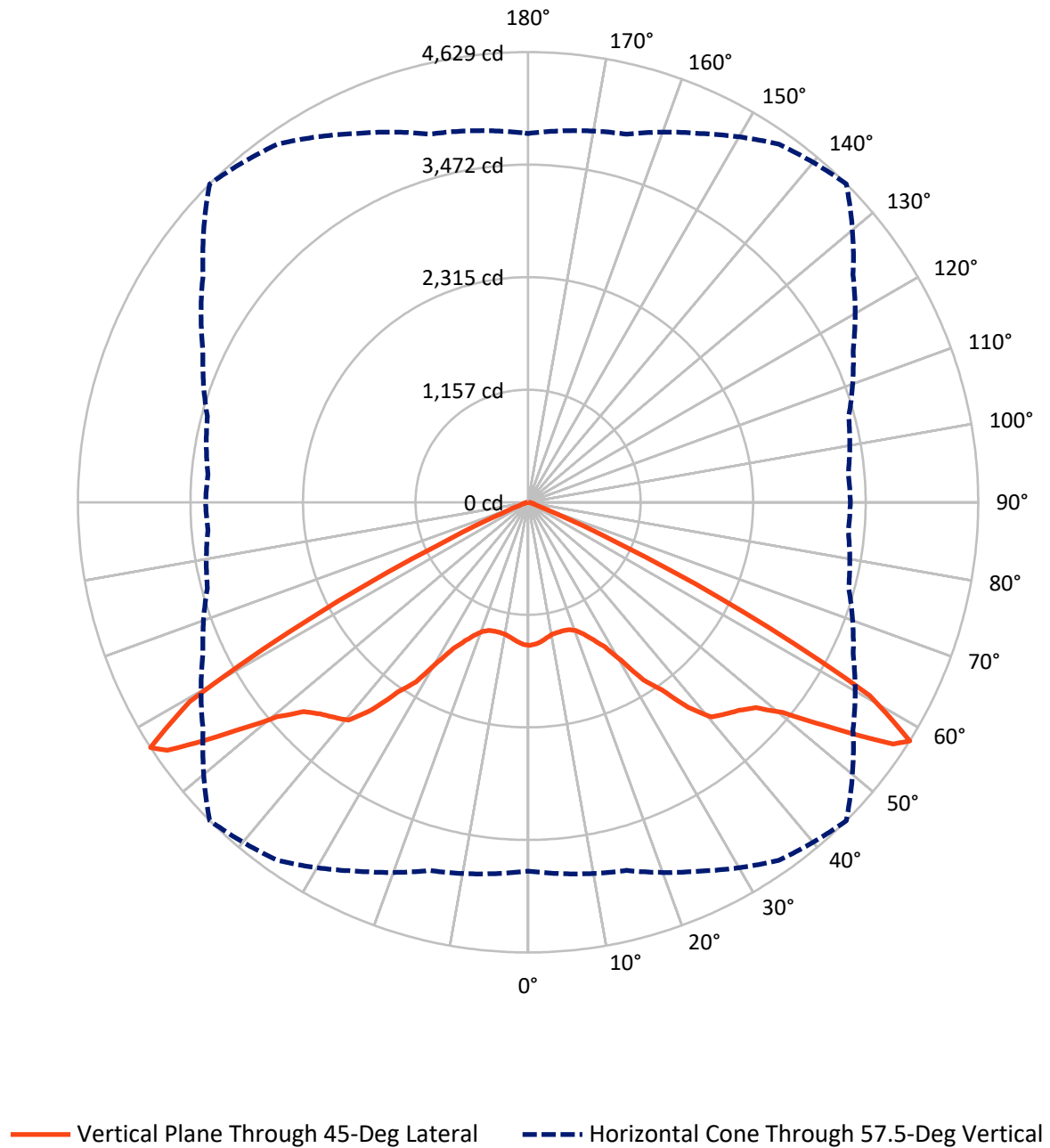
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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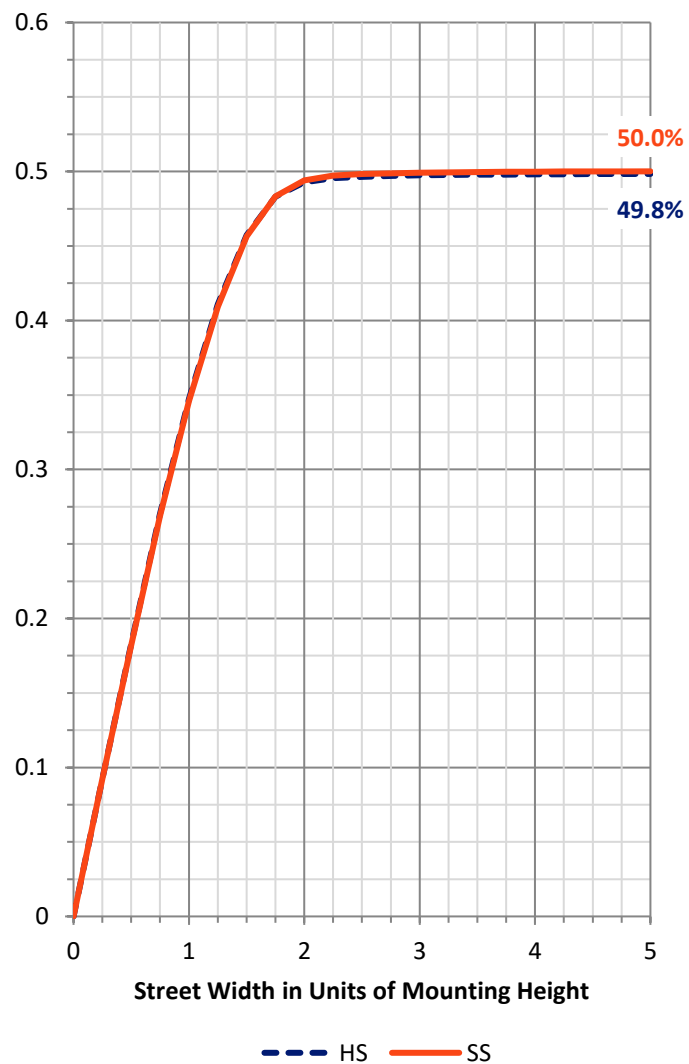
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4746.5	0.0	4746.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4746.5	0.0	4746.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9493.0	0.0	9493.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	1.4
10°-20°	391.1	4.1
20°-30°	721.9	7.6
30°-40°	1419.8	15.0
40°-50°	2312.4	24.4
50°-60°	3297.8	34.7
60°-70°	1141.8	12.0
70°-80°	61.3	0.6
80°-90°	11.5	0.1
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°	9493.0	100.0
0°-180°	9493.0	100.0

Coefficient of Utilization



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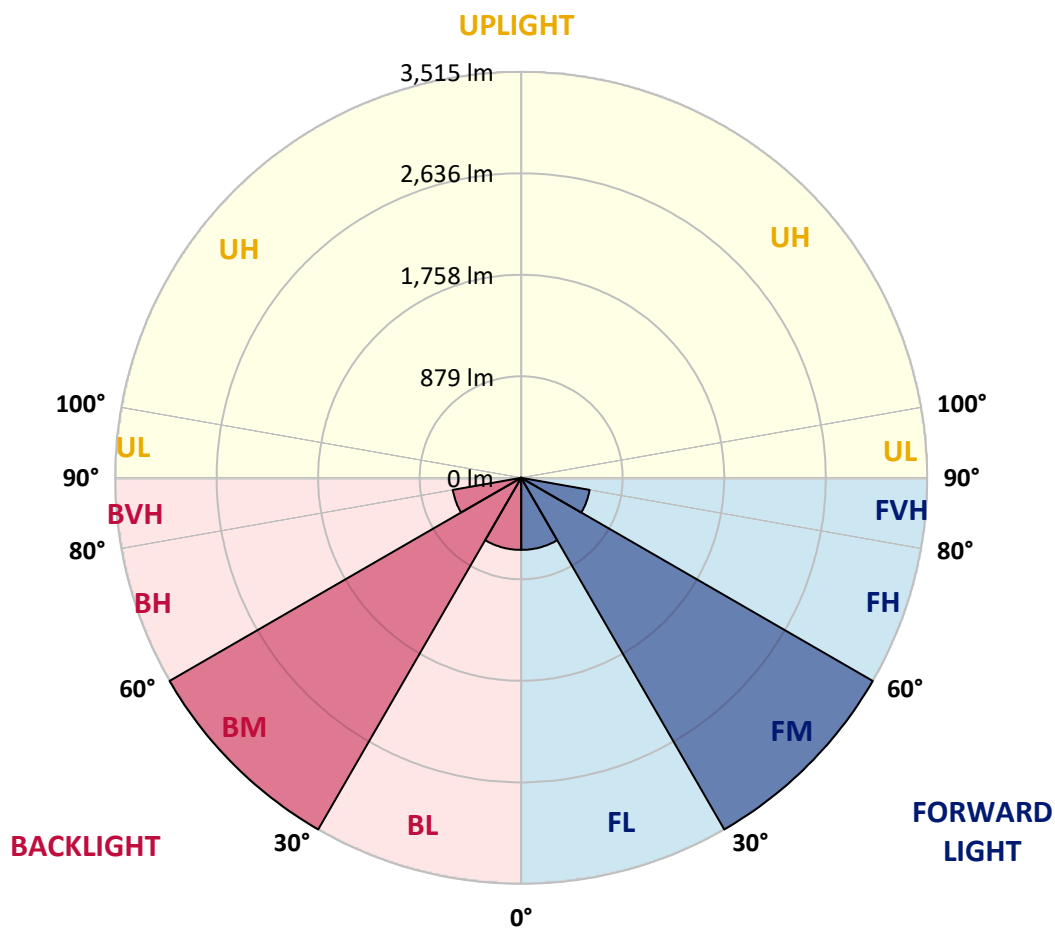
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	624.2	6.6			
FM	(30°-60°)	3515.0	37.0			
FH	(60°-80°)	601.5	6.3			G0/660
FVH	(80°-90°)	5.8	0.1			G0/10
BL	(0°-30°)	624.2	6.6	B2/1000		
BM	(30°-60°)	3515.0	37.0	B3/5000		
BH	(60°-80°)	601.5	6.3	B2/1000		G0/660
BVH	(80°-90°)	5.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5	1472.5
2.5°	1468.5	1476.4	1466.5	1462.6	1460.6	1460.6	1454.7	1454.7	1452.7	1454.7	1446.7
5°	1444.8	1452.7	1452.7	1450.7	1438.8	1436.8	1430.9	1426.9	1428.9	1421.0	1426.9
7.5°	1421.0	1426.9	1419.0	1417.0	1413.1	1405.2	1403.2	1385.4	1387.4	1387.4	1391.3
10°	1417.0	1415.1	1403.2	1393.3	1381.4	1379.4	1373.5	1369.5	1369.5	1367.6	1373.5
12.5°	1417.0	1407.2	1405.2	1383.4	1363.6	1371.5	1355.7	1345.8	1359.7	1363.6	1371.5
15°	1415.1	1425.0	1391.3	1381.4	1367.6	1369.5	1355.7	1345.8	1353.7	1357.7	1363.6
17.5°	1426.9	1421.0	1411.1	1391.3	1385.4	1377.5	1359.7	1351.7	1351.7	1361.6	1363.6
20°	1458.6	1442.8	1423.0	1413.1	1419.0	1409.1	1387.4	1357.7	1365.6	1373.5	1379.4
22.5°	1488.3	1476.4	1462.6	1456.6	1490.3	1474.4	1436.8	1403.2	1391.3	1405.2	1415.1
25°	1545.7	1545.7	1520.0	1527.9	1565.5	1567.5	1523.9	1464.5	1456.6	1462.6	1466.5
27.5°	1662.5	1668.4	1646.6	1654.5	1670.4	1684.2	1646.6	1597.1	1579.3	1577.4	1583.3
30°	1789.1	1801.0	1799.0	1832.7	1878.2	1886.1	1830.7	1749.5	1696.1	1686.2	1694.1
32.5°	1955.4	1961.3	1957.3	1996.9	2119.6	2177.0	2032.6	1917.8	1846.5	1864.3	1846.5
35°	2268.1	2262.1	2218.6	2226.5	2327.4	2369.0	2230.5	2157.2	2123.6	2159.2	2151.3
37.5°	2537.2	2515.5	2479.8	2531.3	2636.2	2673.8	2529.3	2400.7	2339.3	2398.7	2424.4
40°	2764.8	2709.4	2659.9	2711.4	2851.9	2903.4	2691.6	2586.7	2563.0	2606.5	2661.9
42.5°	2956.8	2921.2	2855.9	2859.8	2952.8	2976.6	2806.4	2745.0	2721.3	2790.6	2818.3
45°	3093.4	3059.7	2998.4	2994.4	3065.7	3049.8	2897.4	2855.9	2869.7	2915.2	2929.1
47.5°	3162.6	3180.4	3144.8	3154.7	3192.3	3154.7	3034.0	3034.0	3002.3	3030.0	3016.2
50°	3362.5	3307.1	3352.6	3352.6	3392.2	3396.2	3275.4	3231.9	3146.8	3099.3	3099.3
52.5°	3596.1	3600.0	3617.8	3683.1	3750.4	3807.8	3635.6	3449.6	3307.1	3245.8	3237.8
55°	3788.0	3827.6	3898.9	4021.6	4215.5	4294.7	3997.8	3665.3	3491.2	3396.2	3376.4
56°	3892.9	3855.3	3978.0	4146.3	4399.6	4502.5	4057.2	3708.9	3516.9	3410.0	3408.0
57.5°	3792.0	3833.6	3918.7	4183.9	4494.6	4629.2	4079.0	3689.1	3414.0	3305.1	3315.0
60°	2994.4	3034.0	3148.8	3445.6	3932.5	4037.4	3451.6	3041.9	2796.5	2640.1	2642.1
62.5°	1694.1	1723.8	1812.9	2088.0	2390.8	2491.7	2151.3	1878.2	1708.0	1620.9	1593.2
65°	623.4	611.5	625.4	765.9	952.0	1037.1	894.6	756.0	667.0	635.3	623.4
67.5°	233.5	215.7	201.9	215.7	271.1	287.0	263.2	219.7	205.8	211.8	215.7
70°	144.5	136.6	108.9	102.9	100.9	99.0	104.9	110.8	126.7	148.4	152.4
72.5°	100.9	95.0	77.2	73.2	69.3	67.3	77.2	85.1	99.0	114.8	116.8
75°	39.6	41.6	39.6	43.5	45.5	47.5	55.4	61.4	67.3	67.3	65.3
77.5°	7.9	7.9	11.9	15.8	19.8	25.7	37.6	43.5	45.5	43.5	37.6
80°	0.0	0.0	4.0	7.9	15.8	21.8	33.6	37.6	41.6	37.6	29.7
82.5°	0.0	0.0	4.0	9.9	15.8	19.8	31.7	39.6	45.5	41.6	31.7
85°	0.0	0.0	4.0	7.9	11.9	13.9	13.9	9.9	9.9	5.9	4.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)