

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: P533244

Luminaire Tested: **GALN-SA8C-830-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-830-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38272 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 429
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

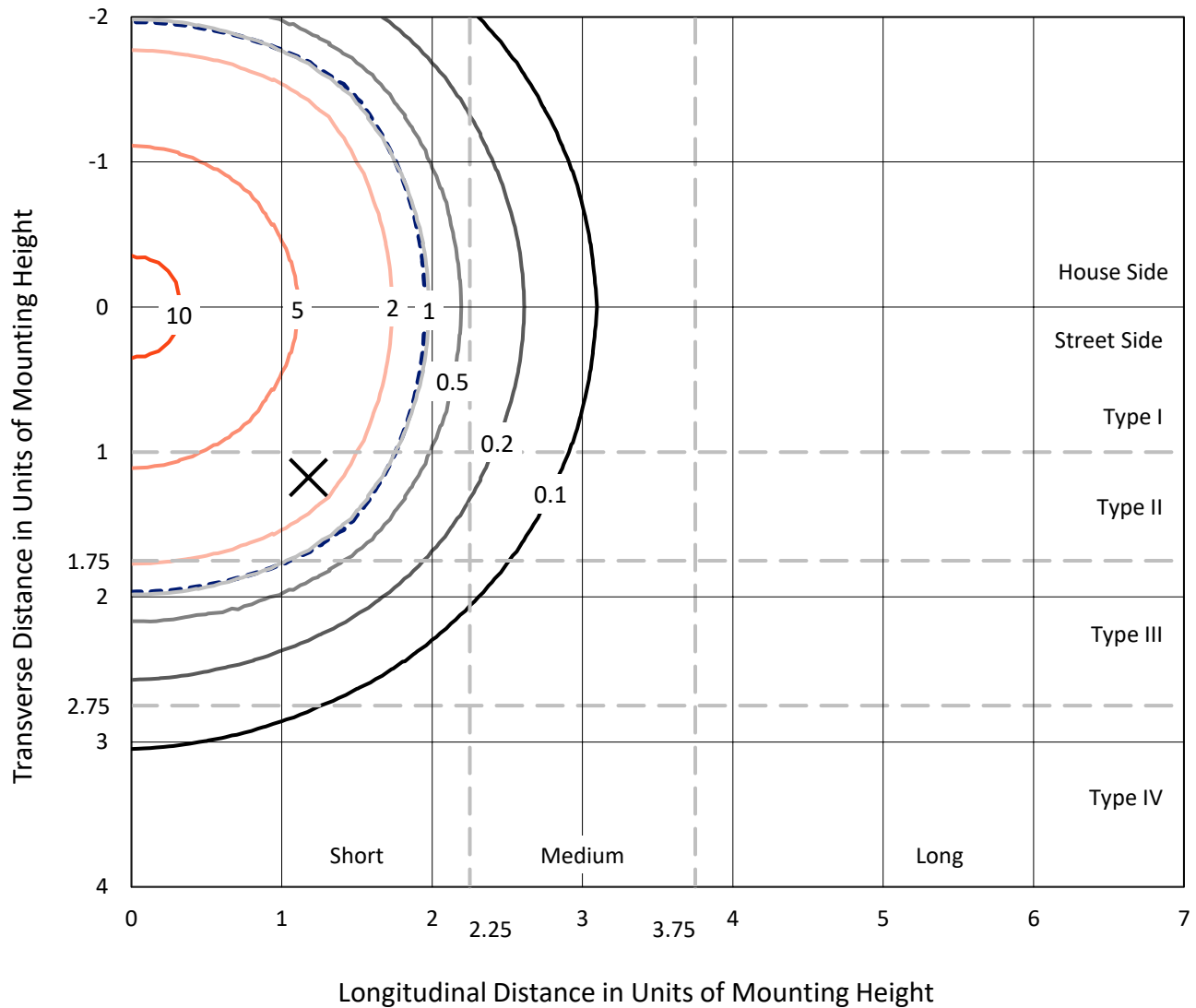


REPORT NUMBER: P533244

CATALOG NUMBER: GALN-SA8C-830-U-5WQ-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

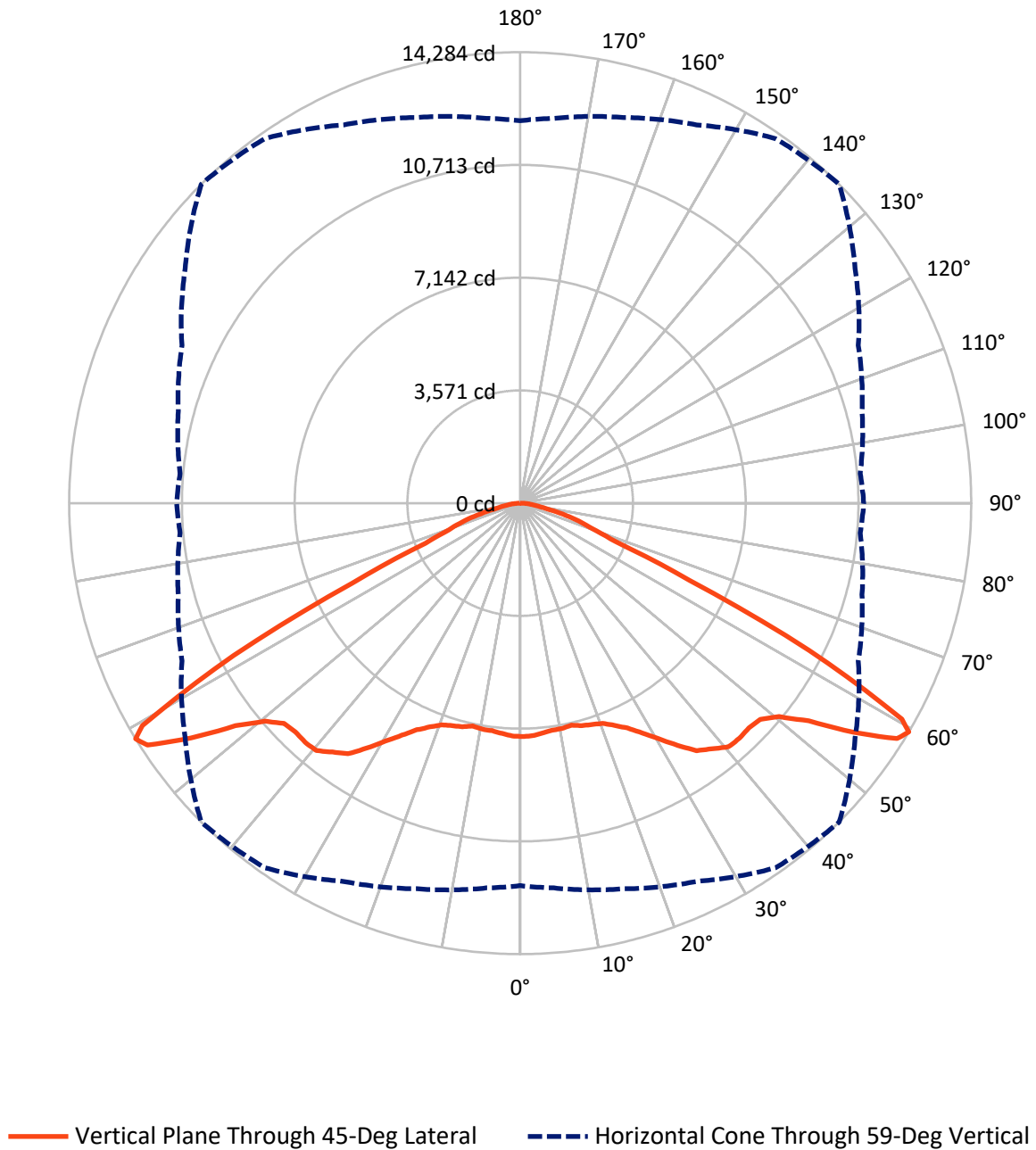


Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type V - Short - N/A

REPORT NUMBER: P533244

CATALOG NUMBER: GALN-SA8C-830-U-5WQ-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P533244

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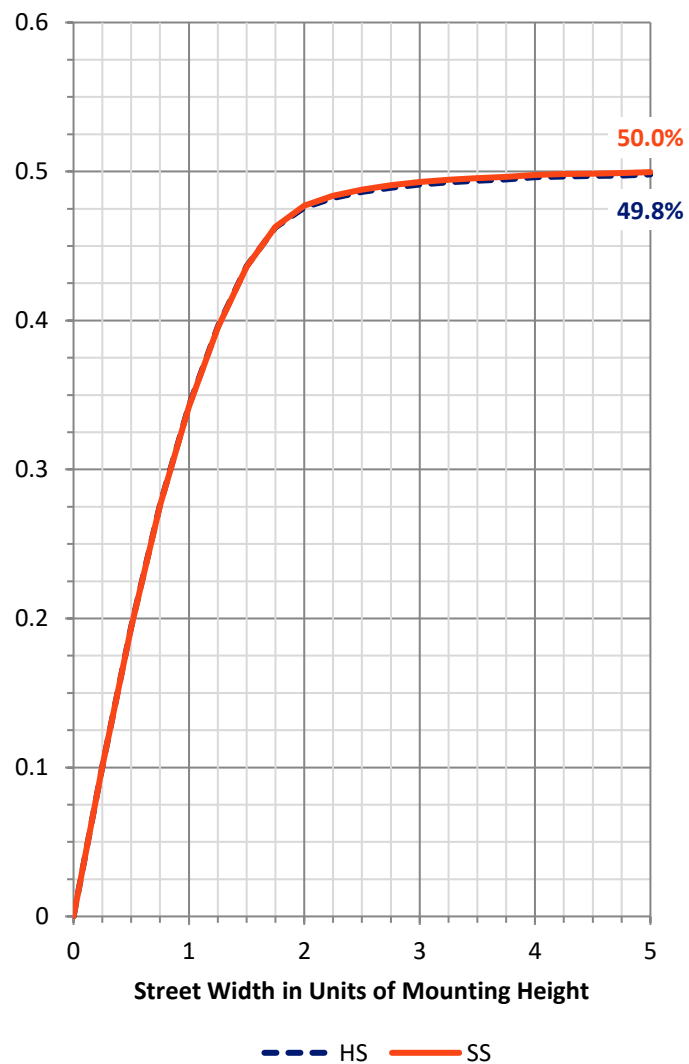
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19136.0	0.0	19136.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19136.0	0.0	19136.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	38272.0	0.0	38272.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	696.9	1.8
10°-20°	2072.3	5.4
20°-30°	3618.5	9.5
30°-40°	5779.3	15.1
40°-50°	7872.6	20.6
50°-60°	10645.8	27.8
60°-70°	5838.2	15.3
70°-80°	1493.6	3.9
80°-90°	254.7	0.7
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°	38272.0	100.0
0°-180°	38272.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533244

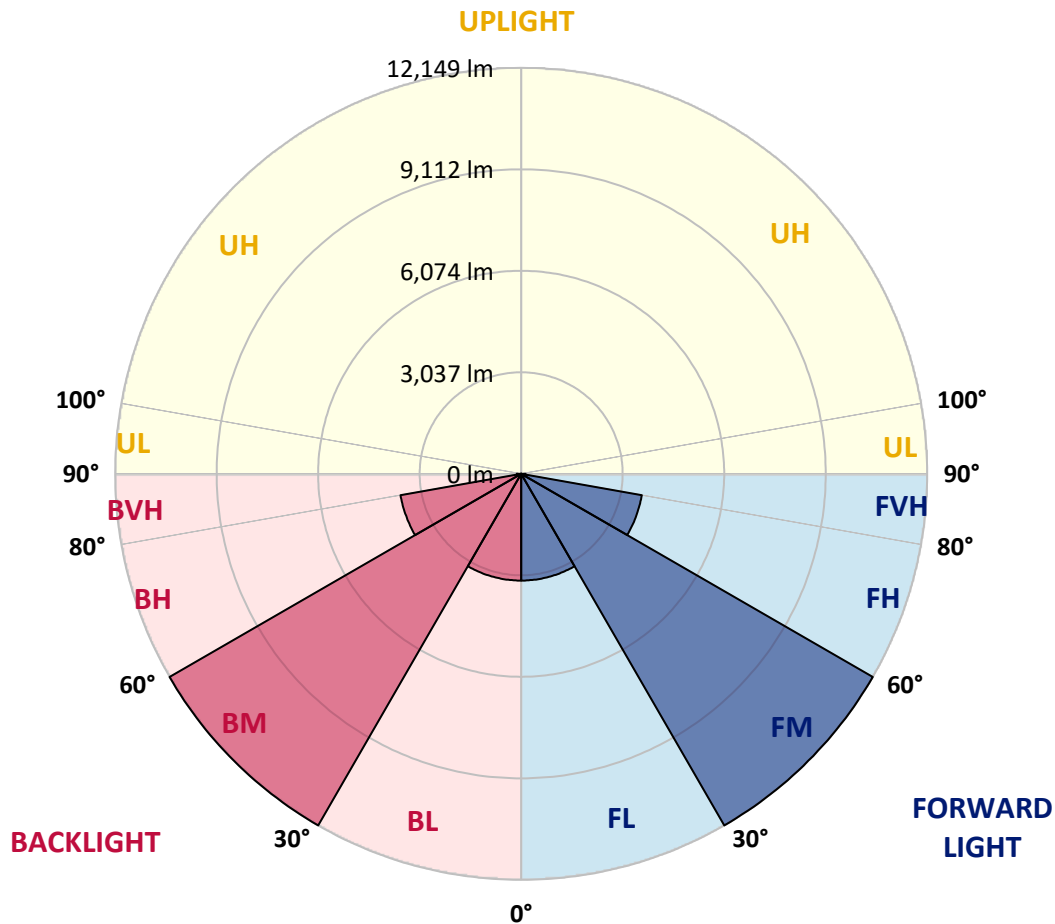
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3193.9	8.3			
FM	(30°-60°)	12148.9	31.7			
FH	(60°-80°)	3665.9	9.6			G2/5000
FVH	(80°-90°)	127.4	0.3			G2/225
BL	(0°-30°)	3193.9	8.3	B4/5000		
BM	(30°-60°)	12148.9	31.7	B5		
BH	(60°-80°)	3665.9	9.6	B4/5000		G2/5000
BVH	(80°-90°)	127.4	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short



REPORT NUMBER: P533244

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7392.3	7392.3	7392.3	7392.3	7392.3	7392.3	7392.3	7392.3	7392.3	7392.3	7392.3
2.5°	7348.2	7402.1	7362.9	7397.2	7392.3	7377.6	7353.1	7338.4	7318.7	7348.2	7299.1
5°	7318.7	7362.9	7407.0	7348.2	7348.2	7318.7	7304.0	7274.6	7274.6	7269.7	7264.8
7.5°	7367.8	7323.6	7304.0	7313.8	7323.6	7259.9	7304.0	7245.2	7196.1	7230.4	7269.7
10°	7323.6	7343.3	7269.7	7304.0	7250.1	7259.9	7230.4	7269.7	7215.7	7215.7	7215.7
12.5°	7367.8	7313.8	7338.4	7313.8	7299.1	7215.7	7255.0	7210.8	7205.9	7255.0	7210.8
15°	7456.1	7367.8	7348.2	7299.1	7313.8	7313.8	7274.6	7279.5	7225.5	7255.0	7264.8
17.5°	7426.7	7377.6	7362.9	7304.0	7353.1	7367.8	7294.2	7245.2	7279.5	7274.6	7269.7
20°	7451.2	7470.8	7456.1	7465.9	7485.5	7446.3	7377.6	7308.9	7264.8	7328.6	7323.6
22.5°	7608.2	7588.5	7578.7	7568.9	7603.2	7642.5	7549.3	7441.4	7441.4	7485.5	7505.1
25°	7735.7	7730.8	7725.9	7770.0	7887.8	7887.8	7770.0	7632.7	7598.3	7627.8	7603.2
27.5°	7922.1	7976.1	7956.4	8034.9	8206.6	8245.8	8088.9	7927.0	7833.8	7799.5	7843.6
30°	8348.9	8285.1	8299.8	8383.2	8535.3	8662.8	8422.4	8250.8	8123.2	8118.3	8137.9
32.5°	8633.4	8682.4	8726.6	8805.1	9045.4	9143.5	8854.1	8574.5	8496.0	8451.9	8466.6
35°	9202.4	9158.2	9148.4	9226.9	9467.3	9629.1	9266.2	9020.9	8917.9	9016.0	9016.0
37.5°	9742.0	9619.3	9526.1	9629.1	9849.9	9869.5	9560.5	9428.0	9374.1	9486.9	9482.0
40°	9997.0	9987.2	9771.4	9830.3	10124.6	10154.0	9864.6	9707.6	9697.8	9845.0	9992.1
42.5°	10261.9	10168.7	9952.9	9992.1	10173.6	10183.4	9908.8	9864.6	9972.5	10114.8	10124.6
45°	10306.1	10227.6	10090.2	9992.1	10124.6	10154.0	9992.1	10021.6	10031.4	10203.1	10203.1
47.5°	10394.4	10384.6	10306.1	10232.5	10257.0	10232.5	10129.5	10173.6	10320.8	10404.2	10364.9
50°	10639.6	10536.6	10615.1	10551.3	10556.3	10624.9	10531.7	10575.9	10546.4	10472.9	10423.8
52.5°	11179.2	11130.2	11198.8	11243.0	11292.1	11449.0	11341.1	11105.6	10884.9	10688.7	10683.8
55°	11969.0	12003.3	12135.8	12361.4	12552.7	12802.9	12282.9	11718.8	11365.6	11056.6	11076.2
57.5°	12714.6	12690.1	12871.6	13386.6	13945.8	14073.4	13053.1	12248.6	11674.7	11478.5	11395.1
59°	12116.1	12233.9	12645.9	13219.8	14097.9	14284.3	12950.0	11816.9	11208.7	10811.3	10880.0
60°	11174.3	11218.5	11586.4	12385.9	13573.0	13891.9	12258.4	11149.8	10340.4	10109.9	10212.9
62.5°	7897.6	7863.2	8128.1	8780.5	9845.0	10276.6	9114.1	8334.1	7824.0	7568.9	7627.8
65°	4199.0	4355.9	4463.8	4871.0	5435.1	5891.3	5410.6	5072.1	4787.6	4576.7	4571.8
67.5°	2835.3	2815.7	2840.2	2933.4	3124.7	3252.2	3242.4	3070.7	3046.2	3007.0	3051.1
70°	2388.9	2379.1	2334.9	2334.9	2374.2	2403.6	2437.9	2457.6	2496.8	2545.9	2541.0
72.5°	1937.6	1913.1	1883.6	1868.9	1918.0	1932.7	1976.8	1996.5	2030.8	2025.9	2070.0
75°	1280.3	1280.3	1314.6	1353.9	1368.6	1398.0	1402.9	1461.8	1461.8	1471.6	1432.4
77.5°	716.2	696.6	721.1	760.3	794.7	848.6	902.6	946.7	971.3	961.4	961.4
80°	417.0	417.0	441.5	485.6	529.8	578.8	618.1	652.4	676.9	667.1	647.5
82.5°	260.0	260.0	284.5	328.7	363.0	392.4	446.4	490.5	520.0	510.2	485.6
85°	132.4	132.4	161.9	191.3	235.5	255.1	250.2	230.6	225.6	201.1	201.1
87.5°	34.3	34.3	49.1	54.0	44.1	49.1	49.1	49.1	49.1	49.1	54.0
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)