

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: P629501

Luminaire Tested: GWS-SA1B-827-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1B-827-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 2700K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2209.4 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

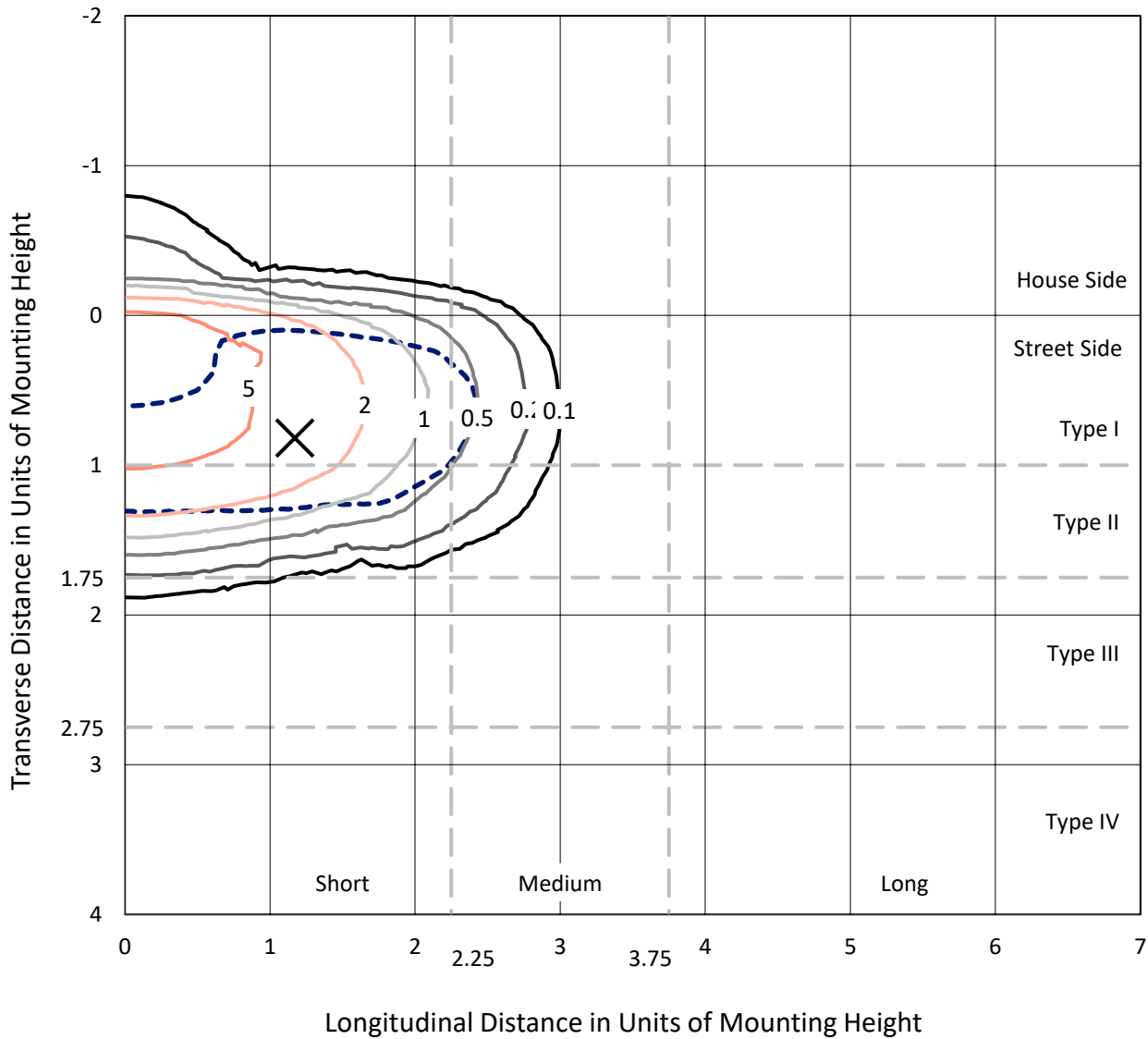
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

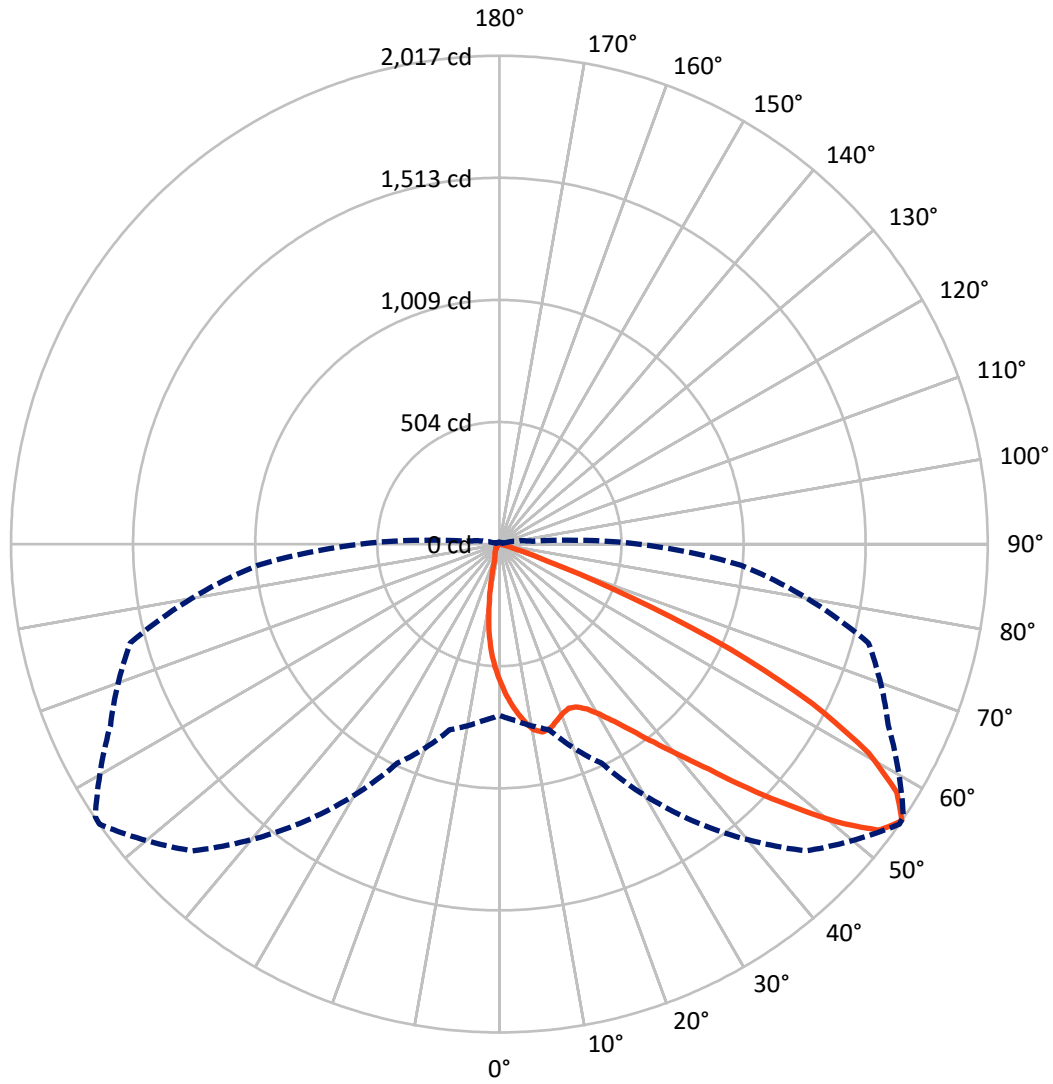
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	136.3	0.0	136.3
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	2073.1	0.0	2073.1
	% Fixture	93.8	0.0	93.8
Total	Lumens	2209.4	0.0	2209.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.4	2.3
10°-20°	121.6	5.5
20°-30°	202.5	9.2
30°-40°	345.1	15.6
40°-50°	563.4	25.5
50°-60°	589.8	26.7
60°-70°	297.5	13.5
70°-80°	37.6	1.7
80°-90°	1.4	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°	2209.4	100.0
0°-180°	2209.4	100.0

Coefficient of Utilization

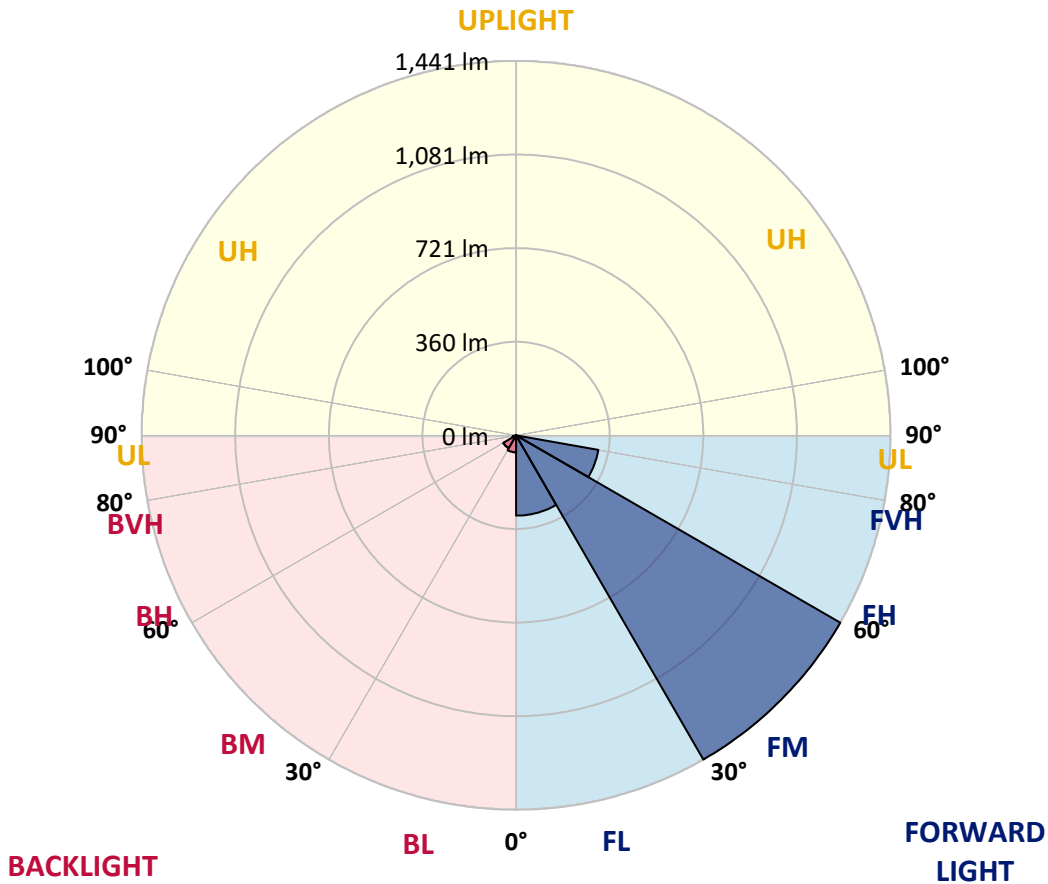


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	309.1	14.0			
FM (30°-60°)	1441.3	65.2			
FH (60°-80°)	321.4	14.5			G0/660
FVH (80°-90°)	1.3	0.1			G0/10
BL (0°-30°)	65.5	3.0	B0/110		
BM (30°-60°)	57.0	2.6	B0/220		
BH (60°-80°)	13.7	0.6	B0/110		G0/110
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8
2.5°	665.4	662.2	667.1	661.4	651.8	643.7	633.1	629.3	612.3	596.3	580.8
5°	746.2	747.2	745.7	737.7	724.1	709.0	687.7	683.0	653.3	622.7	589.7
7.5°	766.3	765.7	768.9	771.9	769.7	762.1	738.9	734.2	697.3	651.4	603.3
10°	704.5	704.9	711.5	731.9	757.2	783.5	779.9	777.2	741.1	683.9	618.4
12.5°	617.2	620.6	627.6	656.7	699.6	759.3	796.3	798.9	781.4	719.6	636.1
15°	579.5	580.2	585.9	603.5	635.4	709.0	789.3	796.7	815.0	755.5	655.4
17.5°	578.5	579.5	581.9	589.7	610.4	669.6	766.8	779.7	840.3	794.0	678.4
20°	614.0	613.5	611.8	607.6	616.7	656.5	746.1	760.2	854.1	831.6	701.7
22.5°	678.4	677.7	670.1	652.9	645.6	668.4	735.9	748.7	862.4	865.0	720.7
25°	752.7	758.0	743.8	717.7	699.6	698.8	744.9	754.0	869.6	894.7	733.8
27.5°	834.1	835.8	823.7	794.4	768.2	747.6	771.2	778.0	877.5	921.1	741.1
30°	923.4	922.8	909.1	875.1	843.1	813.5	815.4	818.0	896.0	951.4	749.3
32.5°	1035.0	1037.5	1012.9	966.7	928.3	887.3	873.2	873.5	929.5	990.3	761.5
35°	1186.7	1180.7	1148.2	1082.3	1016.9	972.7	948.5	946.5	981.0	1042.6	782.9
37.5°	1331.2	1331.8	1297.8	1225.2	1142.7	1073.0	1038.8	1033.1	1053.5	1115.1	818.4
40°	1431.5	1433.4	1419.2	1381.2	1293.8	1195.2	1145.0	1139.1	1147.6	1206.9	864.9
42.5°	1484.6	1489.8	1493.8	1502.7	1436.4	1347.8	1270.6	1270.0	1261.1	1311.5	918.7
45°	1486.6	1494.6	1518.7	1579.4	1586.9	1522.0	1437.9	1425.2	1391.1	1423.5	966.8
47.5°	1404.5	1422.8	1474.2	1594.3	1673.6	1695.2	1611.9	1604.1	1508.2	1512.1	1002.9
50°	1213.0	1232.0	1326.7	1517.8	1695.5	1832.7	1802.8	1786.8	1606.0	1570.7	1020.3
52.5°	1016.5	1033.9	1098.1	1335.7	1604.7	1875.9	1963.7	1944.7	1693.8	1591.1	1013.1
55°	707.3	730.6	793.3	998.4	1395.4	1791.7	2017.0	2013.0	1772.2	1578.2	1002.0
57.5°	346.8	369.8	432.3	615.5	1033.7	1564.3	1935.6	1956.6	1819.1	1564.4	992.9
60°	144.9	154.3	175.8	270.1	578.3	1182.2	1751.8	1780.9	1790.3	1545.8	992.0
62.5°	84.0	85.6	87.8	112.0	224.9	677.7	1453.2	1494.6	1639.4	1521.0	977.0
65°	63.5	64.0	63.1	68.8	92.9	257.1	1050.0	1106.2	1368.4	1424.3	918.1
67.5°	52.1	52.1	49.7	50.8	58.4	96.3	579.7	658.2	1012.6	1170.6	758.1
70°	41.6	42.5	41.4	39.9	41.7	53.3	206.3	255.7	589.7	691.3	442.2
72.5°	31.5	31.5	33.4	32.3	31.0	33.4	72.0	80.8	236.7	288.2	159.6
75°	24.4	25.1	26.4	25.3	23.4	19.8	34.6	36.6	71.4	67.1	35.7
77.5°	12.5	12.7	16.8	18.5	17.4	12.1	15.1	16.6	23.2	20.8	13.2
80°	7.6	7.9	9.4	14.5	11.5	6.4	6.2	6.6	11.0	9.4	5.5
82.5°	3.2	3.4	5.3	5.3	4.7	2.5	2.5	2.5	5.3	4.9	2.3
85°	0.0	0.0	0.9	0.8	0.8	0.9	0.9	0.9	1.3	1.9	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8
2.5°	570.8	558.7	542.4	527.7	507.9	496.7	481.3	468.6	457.8	454.4	452.9
5°	571.0	550.2	515.4	480.7	438.0	404.4	369.8	342.4	320.0	312.8	310.9
7.5°	574.7	544.1	487.9	424.8	353.4	294.5	241.8	194.5	172.6	165.3	163.8
10°	579.8	539.0	455.9	357.7	255.2	179.4	127.1	96.9	82.5	74.6	75.7
12.5°	586.5	534.9	420.6	285.2	168.9	98.6	69.9	58.6	55.5	54.0	53.3
15°	595.3	530.0	376.8	213.2	103.5	63.5	53.8	50.8	49.7	48.9	48.7
17.5°	604.4	524.3	332.2	150.0	68.8	52.7	48.4	46.8	46.1	45.5	45.3
20°	614.0	514.7	279.9	103.3	54.2	47.4	44.6	42.9	41.9	41.0	40.8
22.5°	618.2	499.2	229.9	72.3	48.2	43.6	40.0	38.0	36.8	36.1	36.1
25°	614.2	474.1	178.1	55.0	43.8	39.5	35.9	33.6	32.7	31.9	31.9
27.5°	603.6	441.8	129.9	45.5	39.1	35.1	31.7	29.7	28.9	28.5	28.5
30°	591.9	401.0	91.6	39.1	33.8	30.6	27.8	26.4	26.3	25.9	25.9
32.5°	581.9	362.8	63.1	34.4	29.8	26.6	24.7	24.2	24.4	24.0	24.2
35°	576.4	325.4	46.8	30.6	26.6	23.6	22.7	22.7	22.7	22.5	22.5
37.5°	578.7	288.6	38.2	28.0	23.8	21.5	20.6	21.0	21.3	21.3	21.3
40°	590.0	255.9	33.8	25.5	21.3	19.6	18.9	19.5	20.0	20.4	20.4
42.5°	604.4	229.5	30.6	23.4	19.6	17.8	17.4	17.9	18.5	18.9	18.9
45°	613.5	202.9	27.4	20.8	17.9	15.7	15.7	16.4	16.2	16.4	16.4
47.5°	617.6	181.7	24.2	17.9	15.3	13.6	13.8	14.2	13.8	14.2	14.2
50°	607.4	160.4	21.3	14.9	12.7	11.9	12.3	12.1	12.1	12.8	12.8
52.5°	588.7	144.5	18.9	12.7	10.8	10.6	11.0	10.2	10.4	10.4	10.2
55°	574.9	135.4	16.8	11.0	9.3	9.4	9.3	7.9	7.2	6.4	6.2
57.5°	568.1	131.8	15.3	9.8	8.3	8.3	7.6	5.5	4.2	3.2	2.8
60°	566.6	127.5	13.8	8.5	7.4	7.0	5.5	3.2	2.1	1.5	1.3
62.5°	552.3	116.9	12.5	6.8	6.4	5.7	3.4	1.9	1.1	0.8	0.6
65°	505.2	96.1	11.1	5.3	4.9	4.2	2.1	1.1	0.6	0.2	0.0
67.5°	401.9	68.2	9.8	4.0	3.4	2.6	1.3	0.8	0.2	0.0	0.0
70°	231.7	36.8	8.1	2.8	2.3	1.7	0.9	0.4	0.0	0.0	0.0
72.5°	77.4	17.2	6.2	1.9	1.7	1.3	0.6	0.2	0.0	0.0	0.0
75°	17.0	10.2	4.2	1.3	1.1	0.9	0.4	0.0	0.0	0.0	0.0
77.5°	6.4	7.2	2.1	0.9	0.8	0.6	0.2	0.0	0.0	0.0	0.0
80°	2.5	4.7	0.9	0.6	0.6	0.2	0.0	0.0	0.0	0.0	0.0
82.5°	1.3	1.9	0.6	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.8	0.9	0.4	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.4	0.2	0.2	0.2	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)