

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: P628675

Luminaire Tested: GWS-SA1A-727-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-727-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2157.5 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

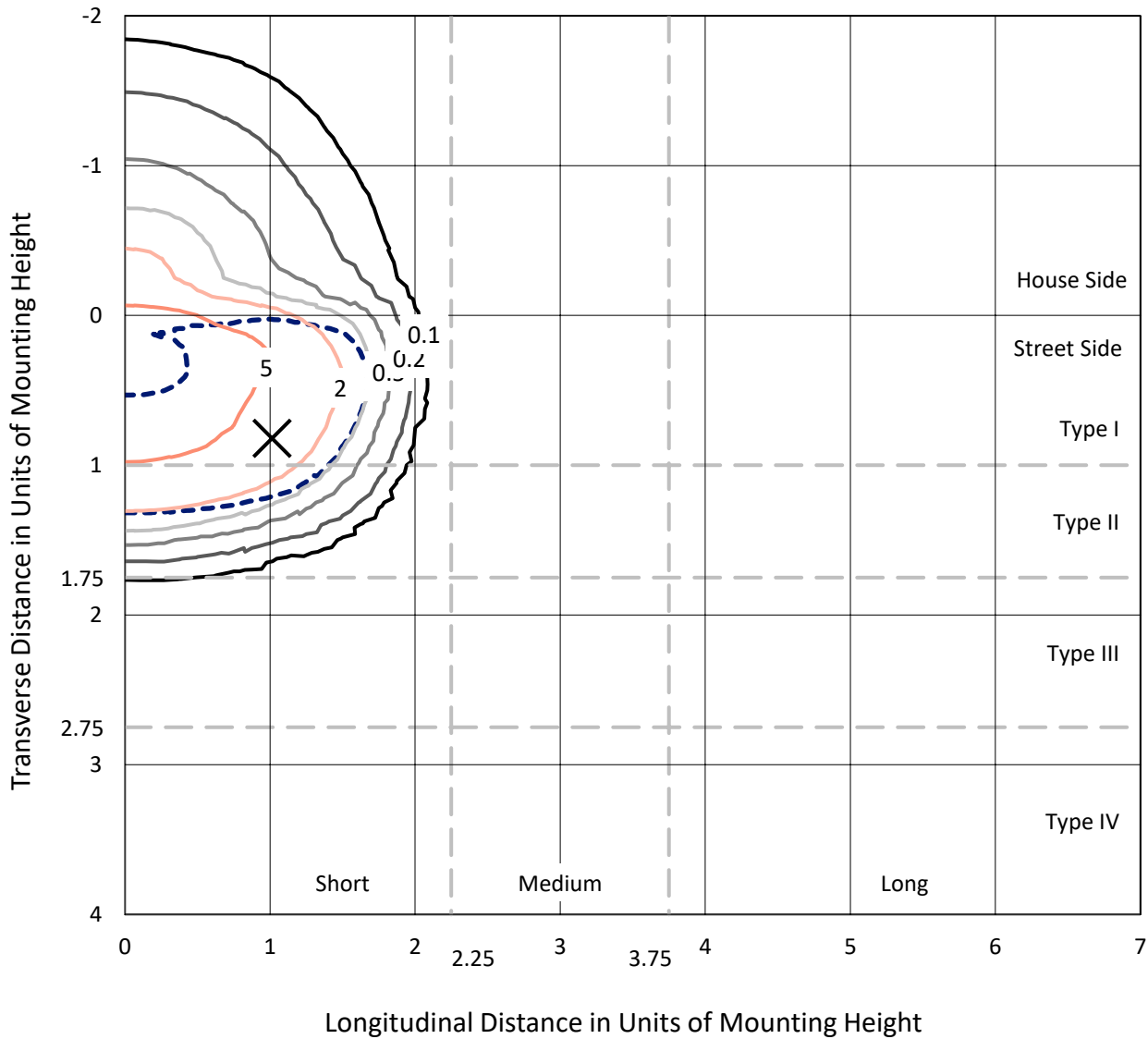
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

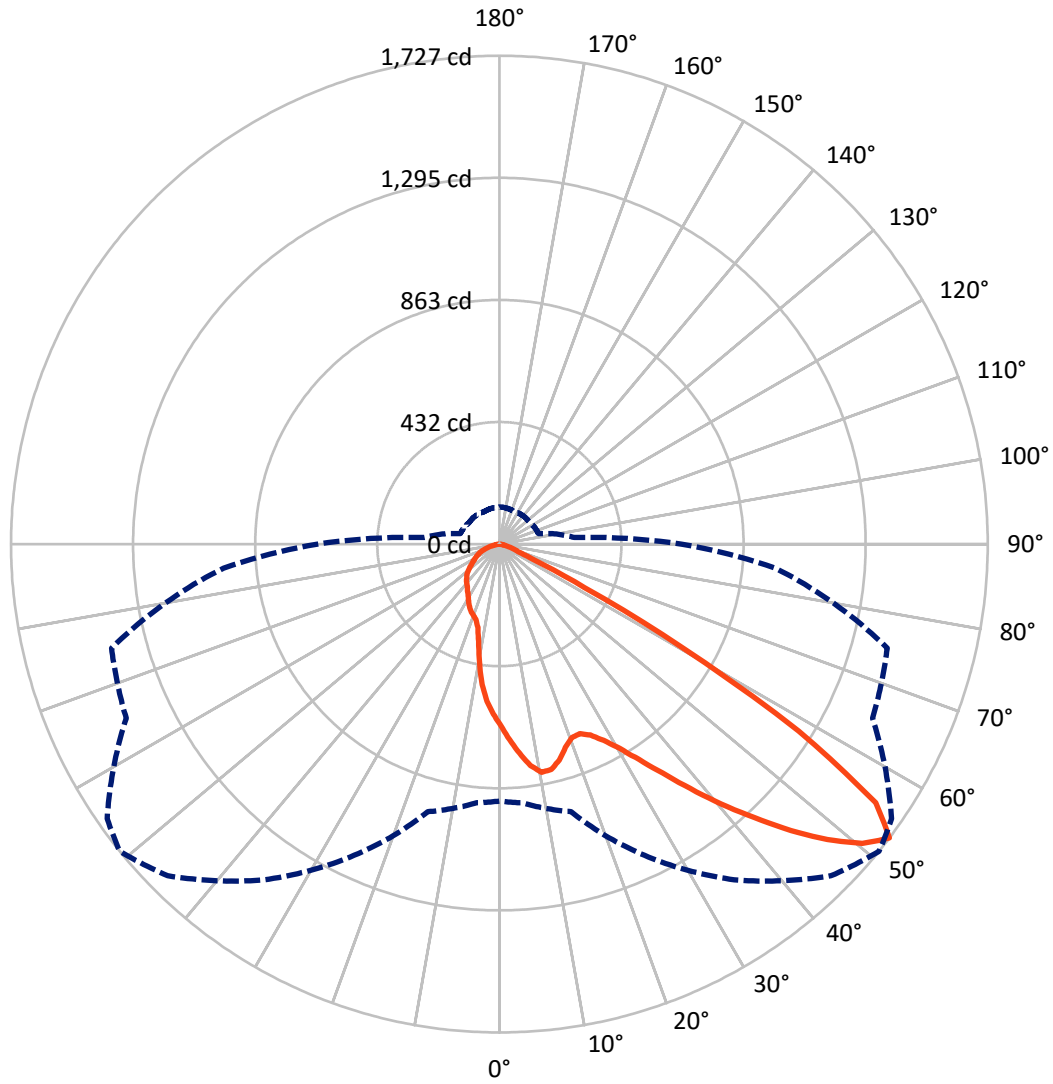
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	420.4	0.0	420.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	1737.1	0.0	1737.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	2157.5	0.0	2157.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.9	2.8
10°-20°	155.8	7.2
20°-30°	253.3	11.7
30°-40°	401.3	18.6
40°-50°	605.3	28.1
50°-60°	523.6	24.3
60°-70°	118.7	5.5
70°-80°	35.0	1.6
80°-90°	4.5	0.2
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°	2157.5	100.0
0°-180°	2157.5	100.0

Coefficient of Utilization



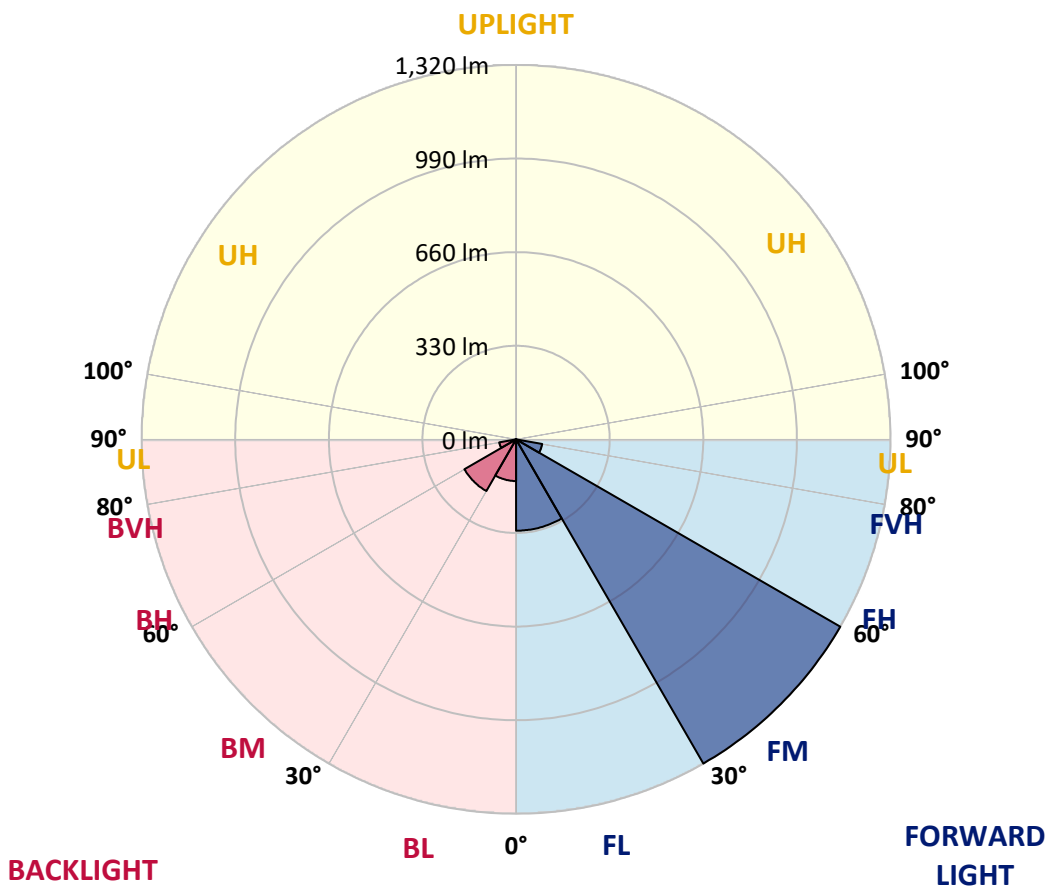
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	322.0	14.9			
FM (30°-60°)	1320.0	61.2			
FH (60°-80°)	93.4	4.3			G0/660
FVH (80°-90°)	1.7	0.1			G0/10
BL (0°-30°)	146.9	6.8	B1/500		
BM (30°-60°)	210.3	9.7	B0/220		
BH (60°-80°)	60.3	2.8	B0/110		G0/110
BVH (80°-90°)	2.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	642.4	642.4	642.4	642.4	642.4	642.4	642.4	642.4	642.4	642.4	642.4
2.5°	715.9	720.0	713.7	711.3	707.4	700.5	692.7	690.5	673.6	662.5	650.1
5°	787.8	790.0	784.9	779.8	770.1	758.0	742.8	739.6	708.9	683.5	657.1
7.5°	803.8	803.0	807.4	810.3	809.1	804.4	790.9	784.6	747.9	707.7	668.7
10°	740.4	735.7	752.0	771.5	794.8	821.7	820.2	819.7	787.8	740.3	683.5
12.5°	656.4	654.0	667.3	691.7	735.8	795.5	817.8	835.2	823.8	771.3	700.0
15°	608.3	607.4	616.5	634.0	669.2	744.5	792.3	826.7	854.7	804.5	717.6
17.5°	599.6	600.1	603.2	613.2	638.5	700.5	755.8	803.8	878.7	841.0	739.6
20°	625.0	628.4	623.1	624.7	638.3	684.7	730.9	780.8	894.0	877.7	763.3
22.5°	681.4	680.2	668.7	661.8	662.0	694.4	728.2	770.1	904.1	913.3	784.8
25°	745.4	744.0	730.2	715.0	705.5	720.8	747.8	781.5	913.1	945.9	802.0
27.5°	820.9	816.6	801.3	781.9	760.7	767.4	785.6	812.4	927.1	977.9	813.4
30°	894.0	899.0	877.0	854.0	831.6	827.5	838.1	862.3	955.6	1015.4	827.0
32.5°	991.0	989.3	965.0	935.0	903.1	900.0	908.4	930.5	1006.7	1067.2	847.8
35°	1108.5	1108.8	1074.2	1033.7	988.3	980.1	994.1	1015.6	1082.9	1137.5	880.7
37.5°	1230.6	1230.1	1199.9	1153.9	1092.0	1080.4	1096.4	1112.4	1178.2	1233.1	931.9
40°	1316.2	1319.6	1305.4	1281.2	1222.6	1194.3	1208.4	1219.5	1281.9	1345.7	999.2
42.5°	1364.7	1369.9	1372.9	1387.4	1356.6	1326.4	1321.3	1327.1	1374.5	1450.2	1062.5
45°	1375.1	1382.0	1404.3	1458.0	1469.9	1461.4	1444.7	1430.7	1443.5	1524.3	1103.9
47.5°	1329.3	1341.2	1389.0	1482.9	1552.6	1579.4	1560.8	1539.5	1483.4	1543.4	1099.6
50°	1147.5	1161.5	1269.1	1432.1	1564.4	1661.9	1663.6	1632.1	1478.6	1488.4	1046.1
52.5°	908.5	918.1	979.6	1214.0	1449.0	1658.5	1726.7	1692.9	1455.6	1419.5	979.1
55°	543.0	558.3	615.8	800.9	1128.8	1469.9	1615.2	1631.6	1444.4	1361.7	933.4
57.5°	183.3	190.8	245.7	353.8	665.2	1076.3	1248.0	1314.5	1311.2	1273.4	844.3
60°	87.3	89.0	100.1	134.2	266.3	562.4	738.7	815.4	885.3	892.3	525.3
62.5°	66.5	67.5	73.1	80.5	107.1	237.0	338.6	397.2	424.3	364.2	191.3
65°	55.6	56.4	60.7	65.3	72.8	102.6	129.9	149.9	135.0	105.2	91.2
67.5°	46.4	47.1	50.3	55.2	60.4	68.7	72.1	74.2	77.7	87.3	83.9
70°	36.3	37.0	40.4	44.7	49.6	51.7	54.9	56.9	64.1	76.4	76.0
72.5°	28.0	28.8	30.7	33.4	37.5	39.6	43.1	45.5	49.6	59.5	63.6
75°	20.5	21.0	22.7	23.5	24.0	23.5	27.1	29.8	35.3	39.0	40.1
77.5°	8.4	9.4	9.0	9.0	10.7	13.0	14.8	16.5	20.3	22.5	22.7
80°	3.4	3.8	4.4	4.9	6.0	7.7	8.9	9.5	11.3	12.6	13.6
82.5°	2.0	2.2	2.6	2.7	3.4	4.4	5.1	5.6	7.0	8.4	8.9
85°	1.0	1.0	1.2	1.4	1.7	2.0	2.4	2.7	3.6	4.4	4.9
87.5°	0.2	0.2	0.2	0.3	0.5	0.7	0.9	1.0	1.2	1.4	1.7
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°	642.4	642.4	642.4	642.4	642.4	642.4	642.4	642.4	642.4	642.4	642.4
2.5°	642.7	633.5	622.8	614.3	604.4	597.0	586.6	580.2	574.0	568.9	565.2
5°	643.4	627.9	605.6	585.8	565.3	545.9	526.0	509.8	495.3	483.2	482.1
7.5°	647.3	625.0	590.1	555.4	515.6	477.0	438.5	407.1	383.3	370.8	368.3
10°	654.0	624.7	574.2	519.0	450.9	388.9	343.2	319.3	305.5	300.6	298.9
12.5°	661.0	623.8	553.9	467.5	373.0	318.6	293.6	290.7	293.2	293.6	293.4
15°	669.5	623.3	528.3	407.1	316.1	286.1	287.8	293.9	299.9	301.3	301.3
17.5°	679.9	622.1	493.6	348.1	280.5	279.8	288.8	297.0	302.6	303.6	303.6
20°	690.8	619.0	450.8	300.1	266.0	275.8	285.6	291.9	295.8	297.2	297.3
22.5°	698.3	610.9	401.5	264.4	256.9	268.3	275.3	281.8	281.8	278.4	277.4
25°	699.8	593.3	348.1	240.0	246.2	256.8	263.9	260.2	253.2	250.4	250.3
27.5°	694.2	567.7	295.5	222.7	233.2	243.8	242.6	237.1	234.1	231.4	232.4
30°	687.4	537.0	249.8	208.3	218.2	228.6	224.5	222.7	220.4	217.4	218.1
32.5°	682.8	502.8	214.6	197.3	208.2	209.9	212.8	212.6	210.6	204.8	204.4
35°	684.2	468.2	191.1	188.2	199.8	199.1	204.6	203.6	189.4	181.4	180.9
37.5°	695.1	434.9	177.3	181.1	186.5	190.8	195.5	183.3	178.3	173.2	173.6
40°	715.9	404.1	169.8	177.1	178.5	184.8	173.7	173.6	171.3	166.7	166.6
42.5°	739.4	378.0	164.7	175.3	173.4	174.6	162.8	164.2	164.0	161.1	160.3
45°	753.7	353.9	160.6	168.3	168.8	156.8	153.3	154.8	155.7	154.1	153.9
47.5°	738.9	326.3	156.3	157.5	162.0	148.8	144.4	144.6	146.1	146.3	145.6
50°	697.3	295.5	151.2	148.3	145.4	140.5	136.4	135.5	137.1	138.6	139.1
52.5°	643.6	266.0	142.7	138.3	131.4	131.4	129.6	126.8	128.9	130.9	131.6
55°	604.2	244.1	130.6	125.6	118.1	120.7	120.4	118.0	120.7	122.2	122.8
57.5°	523.6	196.2	114.9	113.4	107.1	110.1	110.8	107.7	106.4	106.7	107.2
60°	310.8	126.7	103.7	103.5	97.9	101.4	103.5	100.4	96.3	96.8	97.5
62.5°	139.5	96.8	89.5	88.8	88.7	93.3	95.5	92.6	86.8	87.3	88.0
65°	87.8	83.7	77.7	77.7	80.5	84.4	86.1	83.7	77.1	76.2	76.9
67.5°	81.5	77.9	71.8	70.6	71.9	75.2	75.4	70.8	66.8	66.1	66.1
70°	73.1	70.4	64.4	62.1	61.5	61.4	60.9	59.7	57.1	56.4	56.8
72.5°	60.5	58.6	54.9	52.3	51.0	50.8	48.8	47.7	45.5	45.2	45.0
75°	40.1	40.6	40.6	40.2	39.0	38.5	36.3	35.3	32.7	31.7	31.5
77.5°	23.7	24.2	24.9	25.1	24.9	24.9	22.8	21.7	19.1	17.7	17.4
80°	14.5	14.8	15.2	15.7	15.0	14.5	12.6	11.4	10.2	9.4	9.2
82.5°	9.4	9.7	9.9	10.2	9.9	9.2	7.7	7.0	6.1	5.5	5.3
85°	5.3	5.5	5.8	5.8	5.3	4.8	3.9	3.4	2.9	2.6	2.6
87.5°	1.9	1.9	1.9	2.0	1.7	1.5	1.0	0.7	0.5	0.5	0.5
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)