

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: P628787

Luminaire Tested: GWS-SA1A-735-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628787
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-735-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2856.2 lumens
Efficiency: N/A
Efficacy: 145.0 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

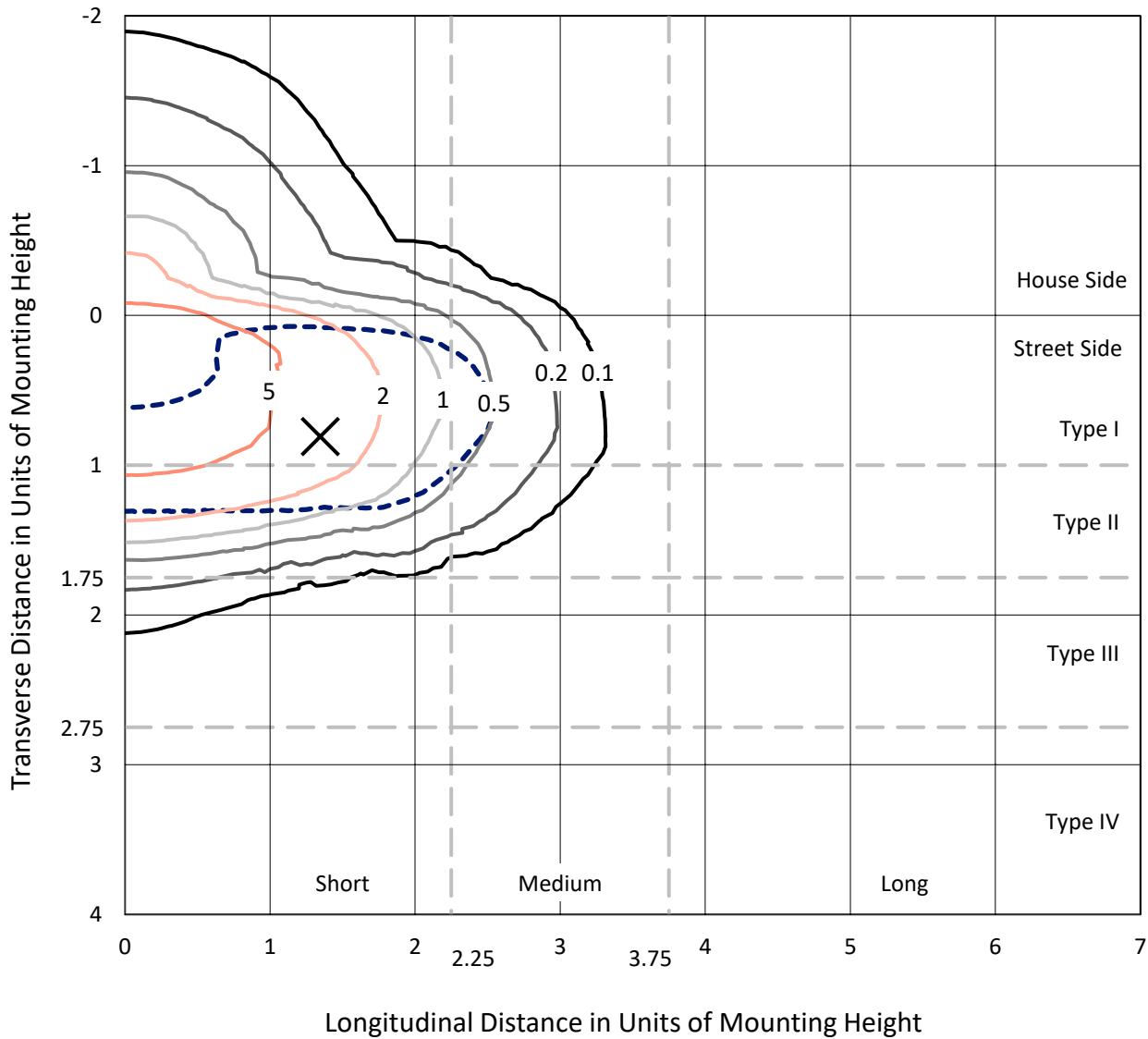
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

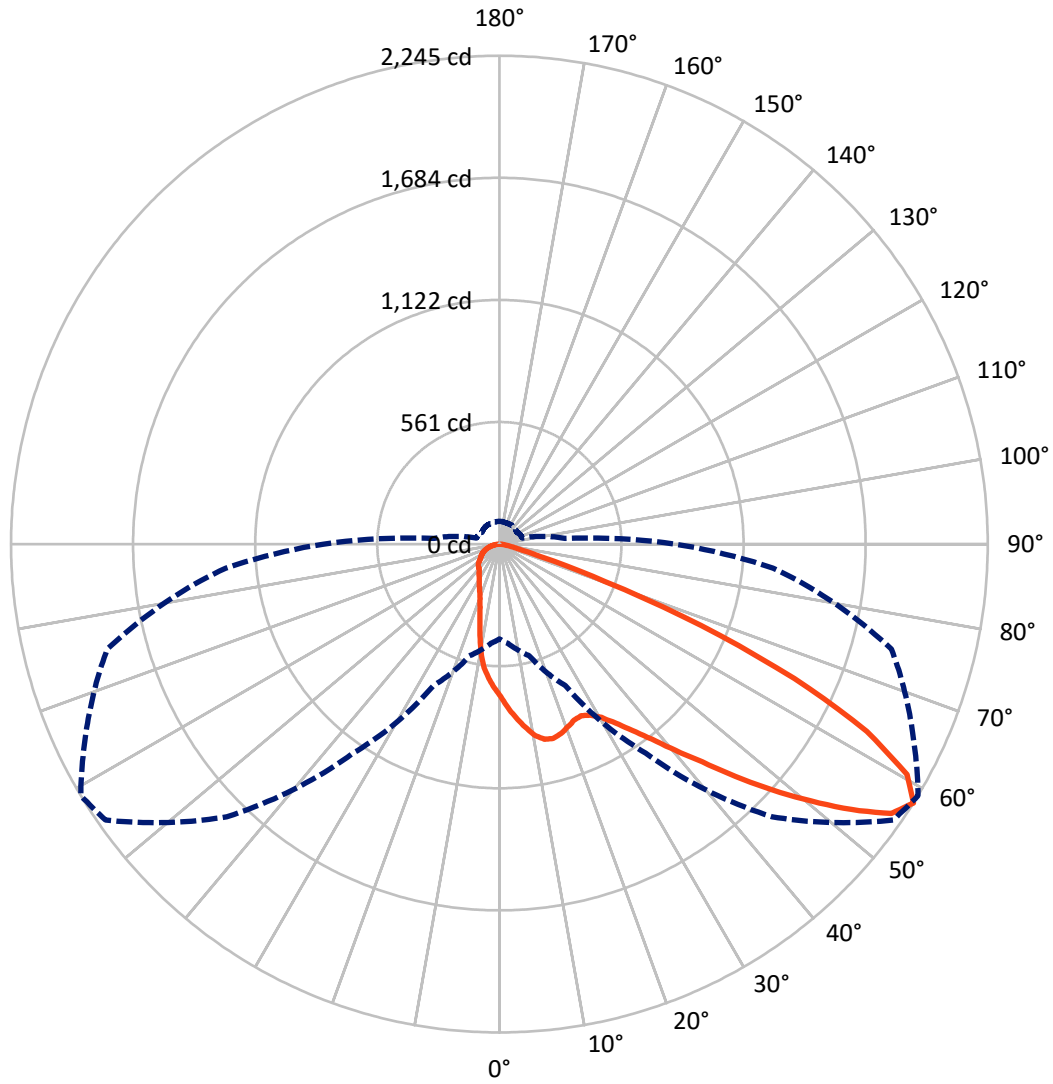
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	443.3	0.0	443.3
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	2412.9	0.0	2412.9
	% Fixture	84.5	0.0	84.5
Total	Lumens	2856.2	0.0	2856.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.1	2.3
10°-20°	165.0	5.8
20°-30°	267.4	9.4
30°-40°	430.2	15.1
40°-50°	668.0	23.4
50°-60°	719.5	25.2
60°-70°	417.6	14.6
70°-80°	109.0	3.8
80°-90°	14.4	0.5
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°	2856.2	100.0
0°-180°	2856.2	100.0

Coefficient of Utilization



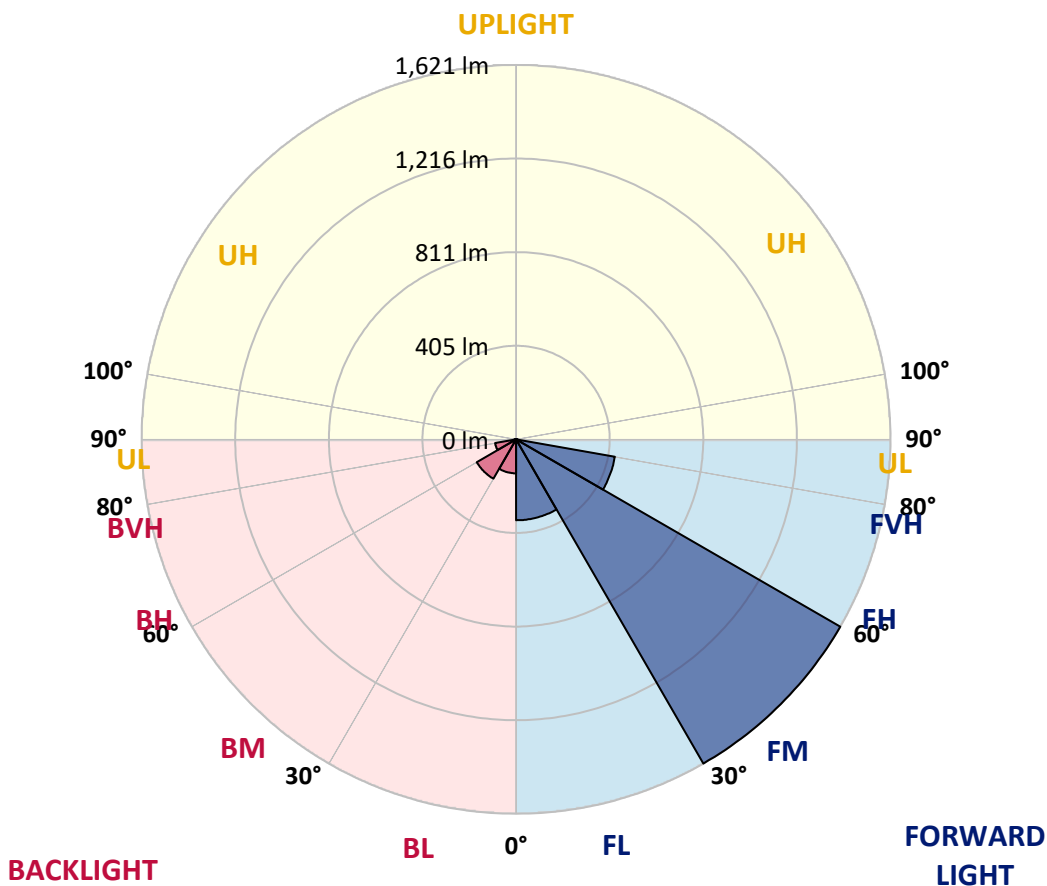
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	350.4	12.3			
FM (30°-60°)	1621.2	56.8			
FH (60°-80°)	434.4	15.2			G0/660
FVH (80°-90°)	6.9	0.2			G0/10
BL (0°-30°)	147.1	5.1	B1/500		
BM (30°-60°)	196.5	6.9	B0/220		
BH (60°-80°)	92.2	3.2	B0/110		G0/110
BVH (80°-90°)	7.5	0.3			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°	55°	59°	65°	75°	85°
0°	701.1	701.1	701.1	701.1	701.1	701.1	701.1	701.1	701.1	701.1	701.1
2.5°	795.2	788.6	793.2	785.0	781.6	772.5	760.9	753.0	741.0	725.3	711.6
5°	874.3	869.6	870.6	861.8	854.0	838.9	814.9	801.7	781.2	749.6	720.2
7.5°	871.9	877.3	880.3	887.9	890.1	888.7	867.2	848.7	826.2	778.8	734.5
10°	781.6	791.8	801.1	827.2	859.0	899.2	904.2	893.2	870.4	816.0	751.6
12.5°	683.2	691.1	699.3	730.7	779.4	859.8	914.3	921.1	912.1	852.7	770.9
15°	635.0	638.6	646.4	667.2	706.0	795.2	896.8	926.7	943.0	891.8	792.6
17.5°	633.0	634.6	638.4	649.5	676.4	745.4	865.2	915.5	967.4	933.0	818.0
20°	674.6	670.4	668.0	667.8	681.0	728.7	834.7	897.4	978.8	975.2	845.1
22.5°	732.3	733.7	728.5	715.6	714.0	740.6	819.4	879.1	982.2	1012.6	870.2
25°	814.1	821.2	805.7	781.2	769.1	774.9	828.8	873.5	981.8	1043.8	885.9
27.5°	909.7	915.1	899.4	867.2	842.3	828.2	857.0	890.1	985.3	1070.7	895.4
30°	1018.4	1020.2	998.7	964.9	928.6	898.4	903.8	924.5	1002.7	1106.1	906.4
32.5°	1151.3	1159.0	1126.4	1072.9	1022.1	983.4	966.8	980.0	1040.6	1147.9	923.5
35°	1320.0	1322.7	1281.2	1204.6	1132.6	1079.2	1044.2	1051.2	1098.1	1206.4	949.3
37.5°	1479.1	1481.7	1437.7	1366.5	1263.5	1190.3	1139.7	1136.5	1171.6	1289.1	991.3
40°	1580.0	1587.5	1567.8	1523.1	1424.8	1326.1	1257.3	1246.2	1268.2	1390.2	1049.8
42.5°	1634.3	1637.5	1637.1	1643.0	1584.5	1486.3	1390.0	1367.9	1382.6	1499.4	1108.9
45°	1634.7	1642.8	1664.3	1720.4	1723.0	1661.9	1557.7	1523.1	1509.7	1609.4	1170.6
47.5°	1561.5	1570.2	1629.3	1739.7	1821.1	1835.0	1758.6	1689.2	1632.5	1704.1	1221.3
50°	1339.9	1361.7	1474.3	1669.5	1840.4	1973.7	1950.2	1856.1	1741.7	1777.3	1253.1
52.5°	1147.5	1146.7	1216.1	1471.2	1759.8	2034.9	2135.6	2027.8	1849.7	1823.7	1261.1
55°	840.3	844.9	915.9	1125.2	1544.6	1975.7	2237.5	2185.9	1973.5	1848.5	1257.9
57.5°	435.7	458.6	531.4	718.0	1173.7	1772.3	2210.4	2244.8	2099.4	1866.0	1262.1
60°	220.2	215.8	241.9	342.8	680.0	1384.2	2043.1	2152.7	2122.1	1879.6	1264.7
62.5°	147.0	145.8	138.5	158.8	277.9	819.8	1741.7	1895.3	1964.3	1847.5	1231.4
65°	127.3	124.9	111.6	110.8	134.9	340.0	1276.6	1489.9	1623.5	1704.5	1151.5
67.5°	114.6	111.0	97.5	90.9	96.9	149.4	719.4	999.3	1198.8	1441.5	976.6
70°	102.3	100.5	87.1	77.4	76.8	91.1	265.0	515.8	733.5	983.4	714.0
72.5°	91.7	88.5	77.0	67.8	63.1	64.5	115.0	198.7	379.6	613.5	427.1
75°	79.4	77.0	67.0	57.7	52.1	47.3	70.2	91.9	173.1	291.6	201.7
77.5°	61.3	59.7	52.9	45.8	42.6	35.2	42.6	57.9	80.0	122.9	105.0
80°	35.6	36.6	39.4	35.8	31.4	25.1	27.7	33.4	48.1	66.6	59.5
82.5°	17.9	19.1	25.5	20.7	18.7	14.7	16.5	19.7	25.1	36.8	23.3
85°	1.4	1.4	4.6	5.2	6.4	5.2	6.6	8.0	11.5	14.7	7.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.0	1.8	3.4	2.2
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°	701.1	701.1	701.1	701.1	701.1	701.1	701.1	701.1	701.1	701.1	701.1
2.5°	702.3	692.1	679.8	669.8	654.3	646.0	635.6	622.7	617.5	615.1	613.7
5°	703.8	685.7	659.5	635.4	608.6	587.5	564.0	539.5	525.4	522.0	519.6
7.5°	709.0	683.6	642.0	602.2	552.5	506.5	461.7	417.2	394.5	385.9	385.1
10°	716.2	682.8	624.3	558.2	474.3	401.5	349.1	314.3	299.6	294.8	293.2
12.5°	725.3	682.2	601.0	497.1	384.0	315.3	285.3	279.7	281.7	281.3	281.3
15°	736.7	683.0	572.9	427.9	310.7	273.7	274.3	280.9	287.1	288.1	288.1
17.5°	749.2	682.2	532.0	358.5	266.6	263.8	273.1	282.3	287.9	288.7	288.7
20°	762.7	678.4	480.6	293.2	247.3	257.6	267.6	274.9	278.3	279.1	279.1
22.5°	770.7	667.6	424.7	248.1	235.1	247.7	254.4	261.8	262.2	255.8	255.6
25°	769.5	647.3	360.9	219.2	222.0	233.0	241.5	236.3	229.8	226.2	225.6
27.5°	761.9	616.7	296.0	197.3	206.5	219.0	216.4	211.9	210.3	206.3	205.9
30°	752.2	579.1	237.7	180.2	190.4	201.9	197.9	197.5	195.8	191.4	191.4
32.5°	743.0	540.3	193.6	167.5	180.2	181.0	186.6	187.0	186.2	178.6	177.7
35°	740.3	501.5	163.9	157.4	170.1	169.7	177.7	177.5	163.7	153.0	152.8
37.5°	748.2	462.1	146.2	149.2	156.2	161.5	167.9	156.2	151.6	145.2	144.8
40°	764.9	425.7	137.1	144.4	147.4	155.0	145.0	145.8	144.6	139.7	139.1
42.5°	787.0	394.7	132.1	142.8	142.4	144.4	133.3	136.5	138.3	134.7	134.1
45°	808.3	367.8	129.5	136.7	138.7	127.1	124.9	127.9	130.7	129.3	128.7
47.5°	824.0	344.4	128.1	128.5	134.1	121.2	117.6	119.0	122.5	123.1	122.9
50°	828.8	324.5	126.5	121.6	120.4	115.4	112.6	112.2	116.2	119.0	119.4
52.5°	819.6	306.8	122.3	115.6	109.8	110.6	109.6	107.6	111.6	115.4	115.8
55°	805.9	296.8	115.6	109.8	102.9	106.2	106.6	104.8	107.4	110.0	110.0
57.5°	806.9	302.6	109.2	104.4	96.9	101.1	103.4	102.5	102.5	104.6	104.8
60°	813.5	311.1	105.0	97.5	90.9	95.3	100.3	99.5	97.7	100.3	100.3
62.5°	794.4	299.8	102.1	90.9	84.5	89.7	95.7	95.3	93.3	97.5	97.9
65°	738.1	269.6	98.9	82.6	78.0	84.0	89.3	90.7	88.9	94.5	95.5
67.5°	618.7	226.8	92.7	74.8	71.6	77.2	82.2	84.2	82.8	89.5	90.3
70°	461.3	183.6	82.8	66.2	63.7	68.8	73.4	74.2	74.4	82.2	83.0
72.5°	294.2	142.8	69.8	56.5	54.7	58.5	61.9	65.1	66.6	74.0	73.8
75°	164.1	106.2	56.1	47.9	44.6	47.7	51.7	55.5	59.5	70.4	71.6
77.5°	94.5	74.6	44.4	38.4	34.6	37.8	41.2	46.6	58.7	68.2	67.0
80°	53.3	48.5	33.6	28.2	25.7	28.2	30.8	41.0	46.2	50.3	50.9
82.5°	24.9	27.1	22.9	17.3	17.3	18.9	21.3	31.8	35.0	28.6	24.9
85°	9.0	12.3	11.3	8.8	7.8	7.6	13.3	18.1	11.3	10.1	8.6
87.5°	2.4	3.4	3.2	2.2	1.2	1.0	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)