

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: STREETWORKS

Report Number: P836818

Luminaire Tested: **ARCH3-80-727-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-80-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 650mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12446 lumens
Efficiency: N/A
Efficacy: 152.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B4 - U0 - G2

Input Watts (W): 81.9
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



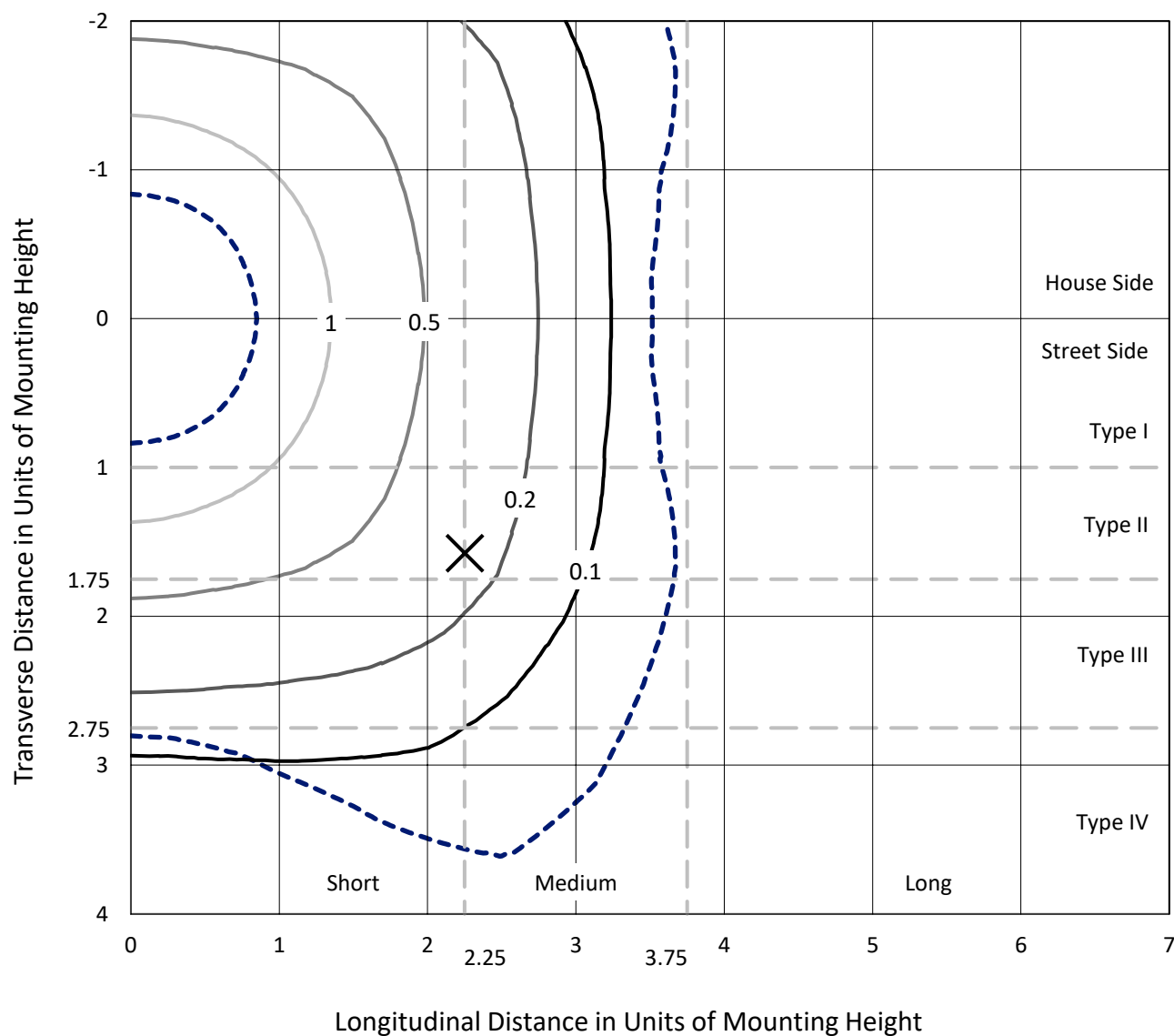
REPORT NUMBER: P836818

CATALOG NUMBER: ARCH3-80-727-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

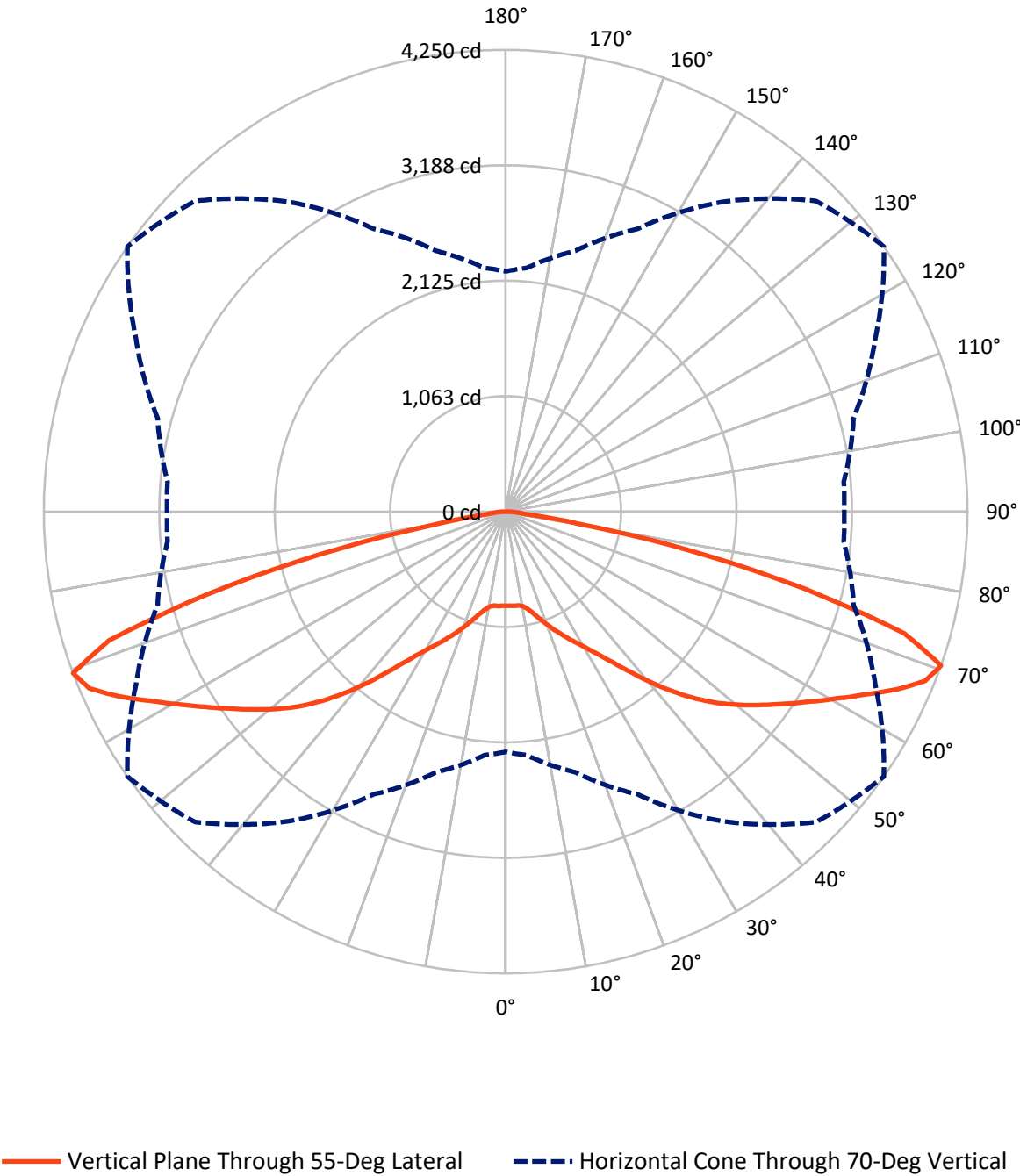
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
Type V - Medium - N/A

REPORT NUMBER: P836818
CATALOG NUMBER: ARCH3-80-727-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P836818

CATALOG NUMBER: ARCH3-80-727-U-5WQ

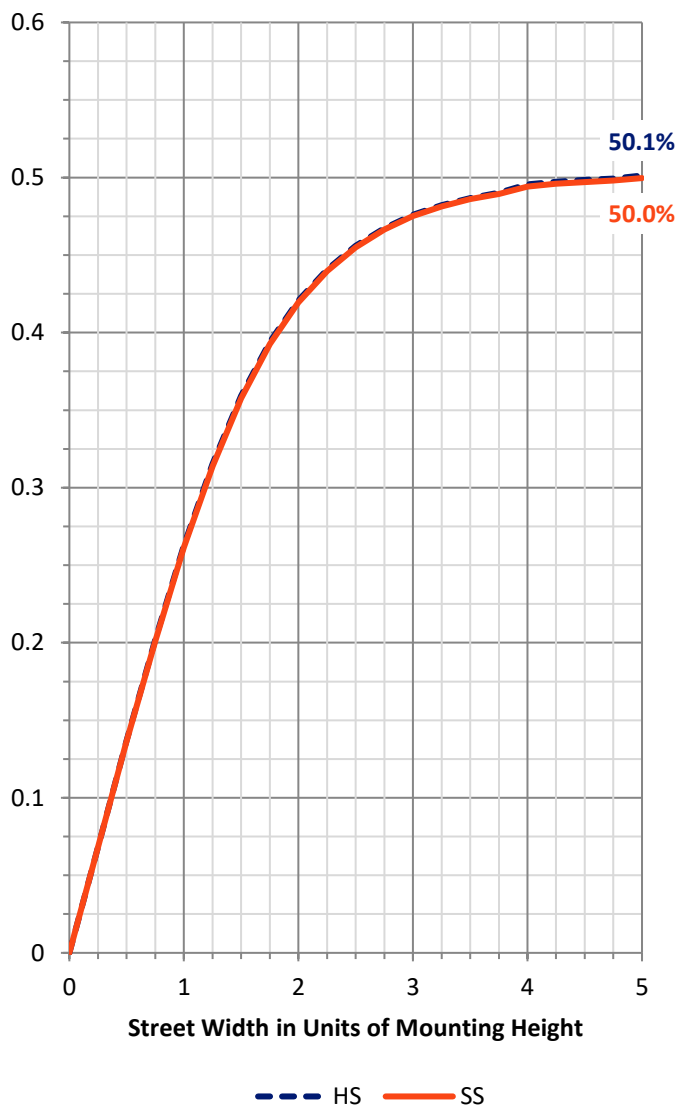
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6223.0	0.0	6223.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6223.0	0.0	6223.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12446.0	0.0	12446.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.8	0.7
10°-20°	285.1	2.3
20°-30°	592.3	4.8
30°-40°	1094.0	8.8
40°-50°	1921.9	15.4
50°-60°	2771.8	22.3
60°-70°	3392.4	27.3
70°-80°	2158.7	17.3
80°-90°	146.1	1.2
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°	12446.0	100.0
0°-180°	12446.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836818

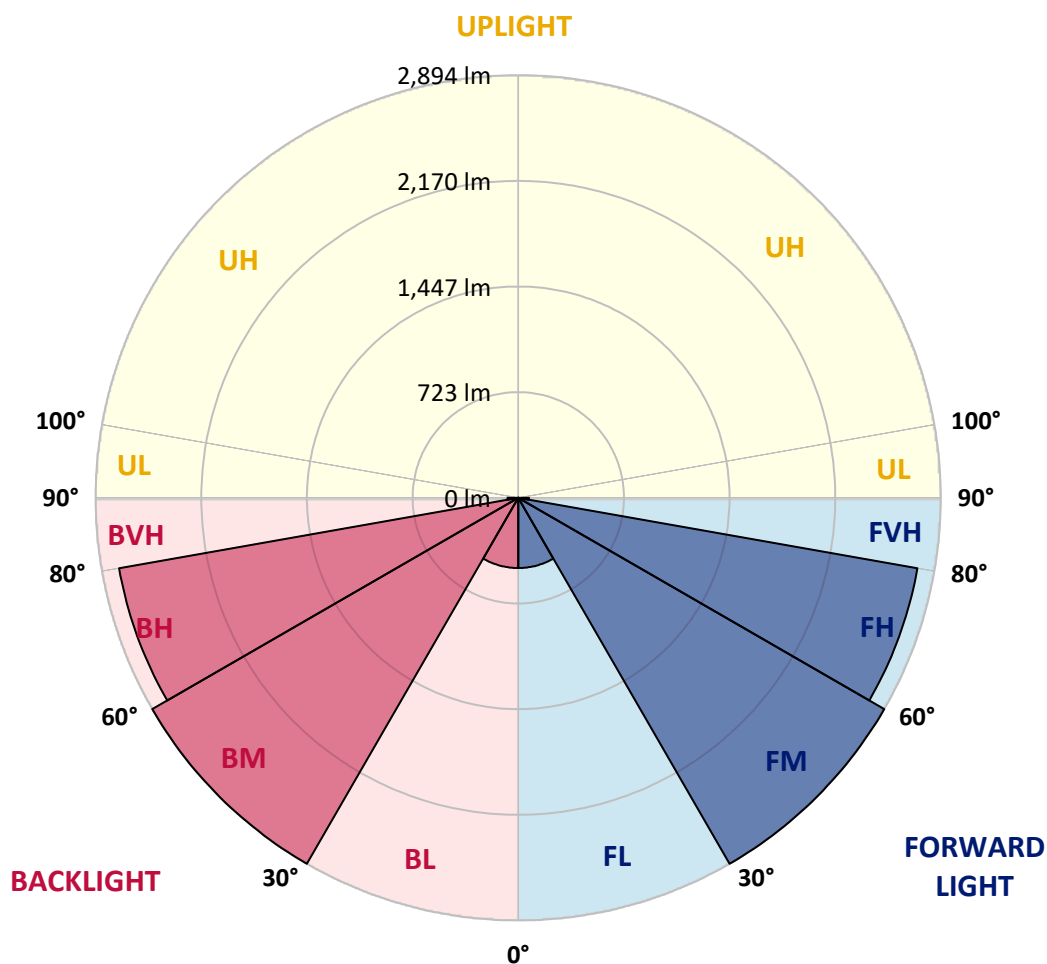
CATALOG NUMBER: ARCH3-80-727-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	480.6	3.9			
FM	(30°-60°)	2893.9	23.3			
FH	(60°-80°)	2775.5	22.3			G2/5000
FVH	(80°-90°)	73.0	0.6			G1/100
BL	(0°-30°)	480.6	3.9	B1/500		
BM	(30°-60°)	2893.9	23.3	B3/5000		
BH	(60°-80°)	2775.5	22.3	B4/5000		G2/5000
BVH	(80°-90°)	73.0	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Medium



REPORT NUMBER: P836818

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	867.6	867.6	867.6	867.6	867.6	867.6	867.6	867.6	867.6	867.6	867.6
2.5°	879.2	879.2	876.9	876.9	872.2	869.9	867.6	867.6	865.3	865.3	863.0
5°	883.8	883.8	883.8	881.5	879.2	876.9	872.2	867.6	865.3	863.0	860.7
7.5°	886.1	886.1	883.8	883.8	881.5	879.2	872.2	865.3	863.0	860.7	860.7
10°	904.6	902.3	900.0	895.4	895.4	895.4	886.1	879.2	876.9	876.9	876.9
12.5°	948.6	946.3	941.6	934.7	934.7	937.0	923.1	913.9	913.9	911.6	911.6
15°	1013.4	1011.0	1006.4	994.9	992.5	997.2	976.3	967.1	967.1	967.1	964.8
17.5°	1085.1	1080.5	1073.5	1064.3	1064.3	1064.3	1043.4	1031.9	1024.9	1024.9	1022.6
20°	1145.2	1142.9	1142.9	1140.6	1147.6	1147.6	1119.8	1101.3	1085.1	1075.8	1073.5
22.5°	1198.4	1196.1	1200.8	1210.0	1223.9	1228.5	1196.1	1168.4	1142.9	1124.4	1119.8
25°	1270.2	1267.9	1265.5	1279.4	1302.6	1309.5	1274.8	1240.1	1214.6	1205.4	1200.8
27.5°	1346.5	1348.8	1351.1	1365.0	1383.5	1395.1	1360.4	1328.0	1307.2	1293.3	1288.7
30°	1432.1	1436.8	1443.7	1464.5	1478.4	1483.0	1452.9	1429.8	1411.3	1399.7	1392.8
32.5°	1540.9	1550.1	1559.4	1577.9	1584.8	1580.2	1566.3	1550.1	1536.2	1520.0	1517.7
35°	1702.8	1712.1	1709.8	1716.7	1719.0	1714.4	1707.4	1698.2	1691.2	1670.4	1668.1
37.5°	1906.4	1915.7	1901.8	1894.8	1878.7	1881.0	1878.7	1885.6	1887.9	1867.1	1864.8
40°	2112.3	2121.6	2103.1	2084.6	2068.4	2061.4	2073.0	2096.1	2096.1	2082.2	2082.2
42.5°	2332.1	2339.1	2309.0	2285.8	2265.0	2260.4	2267.3	2295.1	2302.0	2299.7	2299.7
45°	2551.9	2547.3	2508.0	2484.8	2466.3	2454.7	2457.1	2477.9	2491.8	2498.7	2498.7
47.5°	2720.8	2713.9	2681.5	2663.0	2651.4	2635.2	2635.2	2646.8	2653.7	2656.0	2656.0
50°	2855.0	2848.1	2815.7	2813.3	2813.3	2806.4	2799.5	2797.2	2792.5	2794.8	2794.8
52.5°	2970.7	2961.4	2938.3	2942.9	2963.7	2968.4	2959.1	2940.6	2922.1	2915.1	2917.5
55°	3095.6	3081.7	3063.2	3077.1	3118.7	3137.3	3123.4	3086.4	3054.0	3033.1	3033.1
57.5°	3195.1	3178.9	3178.9	3218.2	3294.6	3331.6	3301.5	3232.1	3176.6	3153.4	3155.8
60°	3125.7	3111.8	3167.3	3340.9	3484.3	3546.8	3495.9	3373.2	3283.0	3255.2	3259.9
62.5°	2989.2	2979.9	3049.3	3317.7	3655.5	3785.1	3708.7	3532.9	3398.7	3366.3	3366.3
65°	2787.9	2785.6	2882.8	3213.6	3694.8	4014.1	3949.3	3706.4	3532.9	3488.9	3498.2
67.5°	2579.7	2579.7	2667.6	3035.5	3648.6	4111.3	4162.2	3863.7	3597.7	3488.9	3491.2
70°	2211.8	2251.1	2484.8	2871.2	3479.7	4041.9	4250.1	3752.7	3315.4	3123.4	3116.4
72.5°	1457.6	1508.5	1973.5	2584.3	3313.1	3789.7	3836.0	3296.9	2753.2	2528.8	2517.2
75°	879.2	923.1	1279.4	2017.5	2912.8	3051.7	2848.1	2584.3	2056.8	1881.0	1881.0
77.5°	259.1	289.2	590.0	1279.4	2015.2	2005.9	1756.0	1522.4	1217.0	1034.2	1048.1
80°	152.7	157.3	192.0	583.0	835.2	879.2	677.9	423.4	423.4	314.7	305.4
82.5°	118.0	118.0	122.6	145.8	201.3	224.4	171.2	145.8	166.6	141.1	134.2
85°	83.3	83.3	83.3	85.6	87.9	90.2	94.9	97.2	106.4	87.9	83.3
87.5°	25.4	27.8	30.1	34.7	41.6	44.0	46.3	41.6	41.6	39.3	37.0
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)