

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: P531658

Luminaire Tested: **GALN-SA7A-727-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531658
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-SA7A-727-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA 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: 22599 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

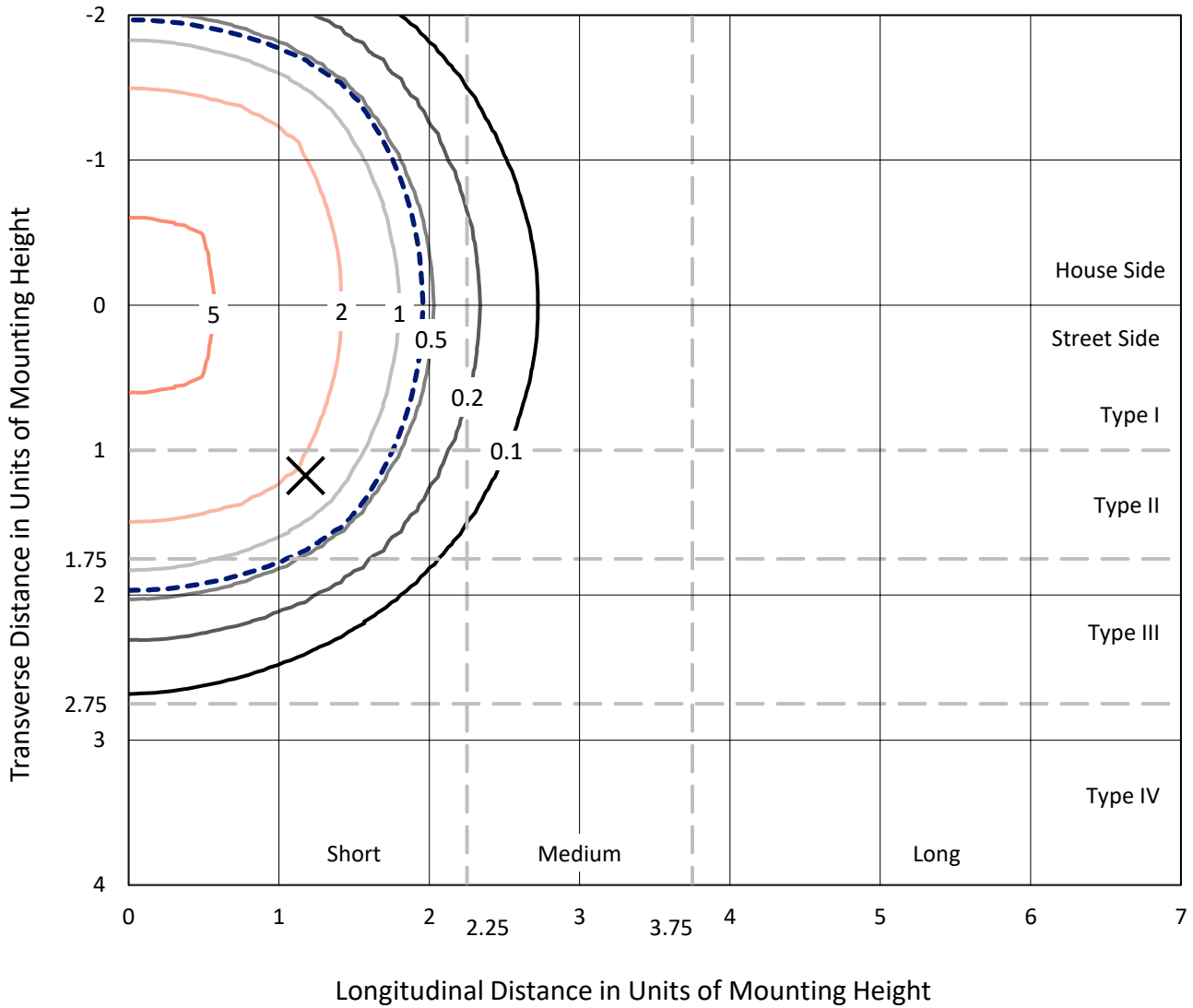
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

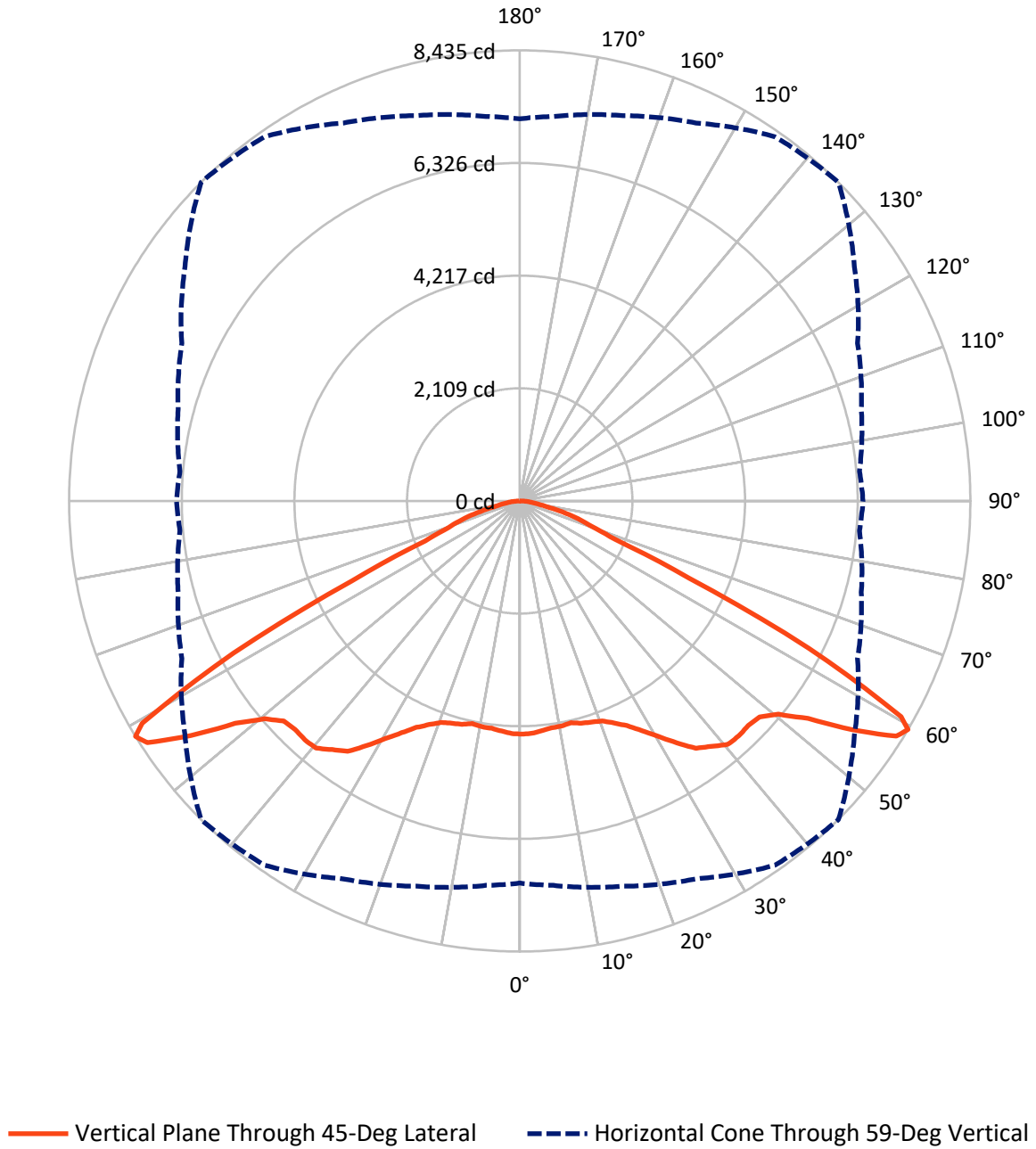
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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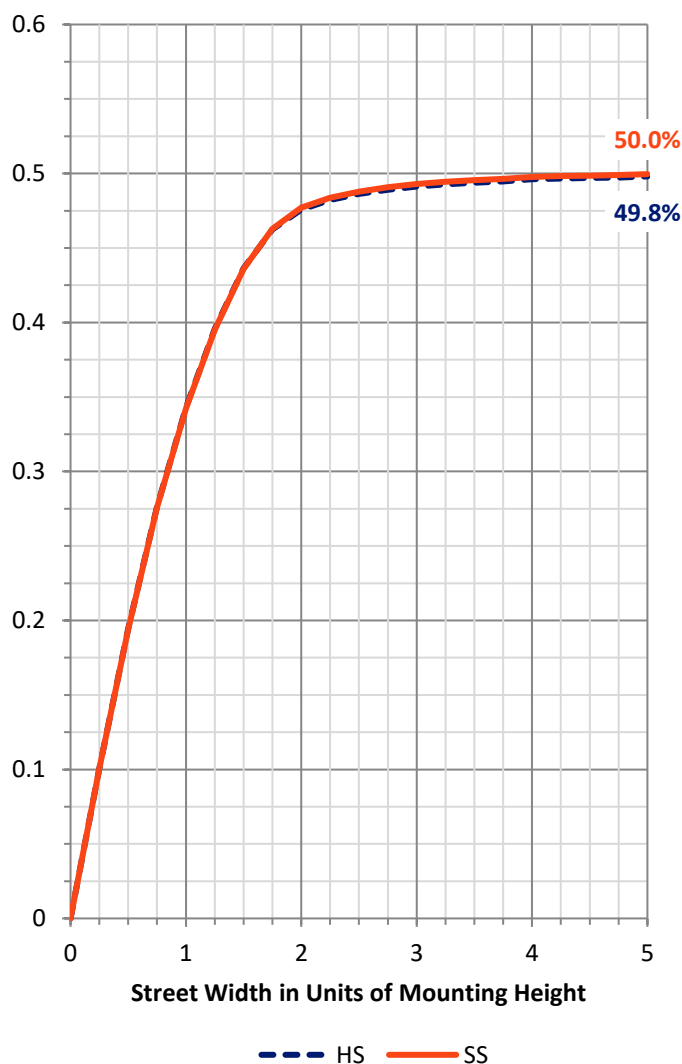
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11299.5	0.0	11299.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11299.5	0.0	11299.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22599.0	0.0	22599.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.5	1.8
10°-20°	1223.7	5.4
20°-30°	2136.7	9.5
30°-40°	3412.6	15.1
40°-50°	4648.6	20.6
50°-60°	6286.2	27.8
60°-70°	3447.4	15.3
70°-80°	881.9	3.9
80°-90°	150.4	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°	22599.0	100.0
0°-180°	22599.0	100.0

Coefficient of Utilization



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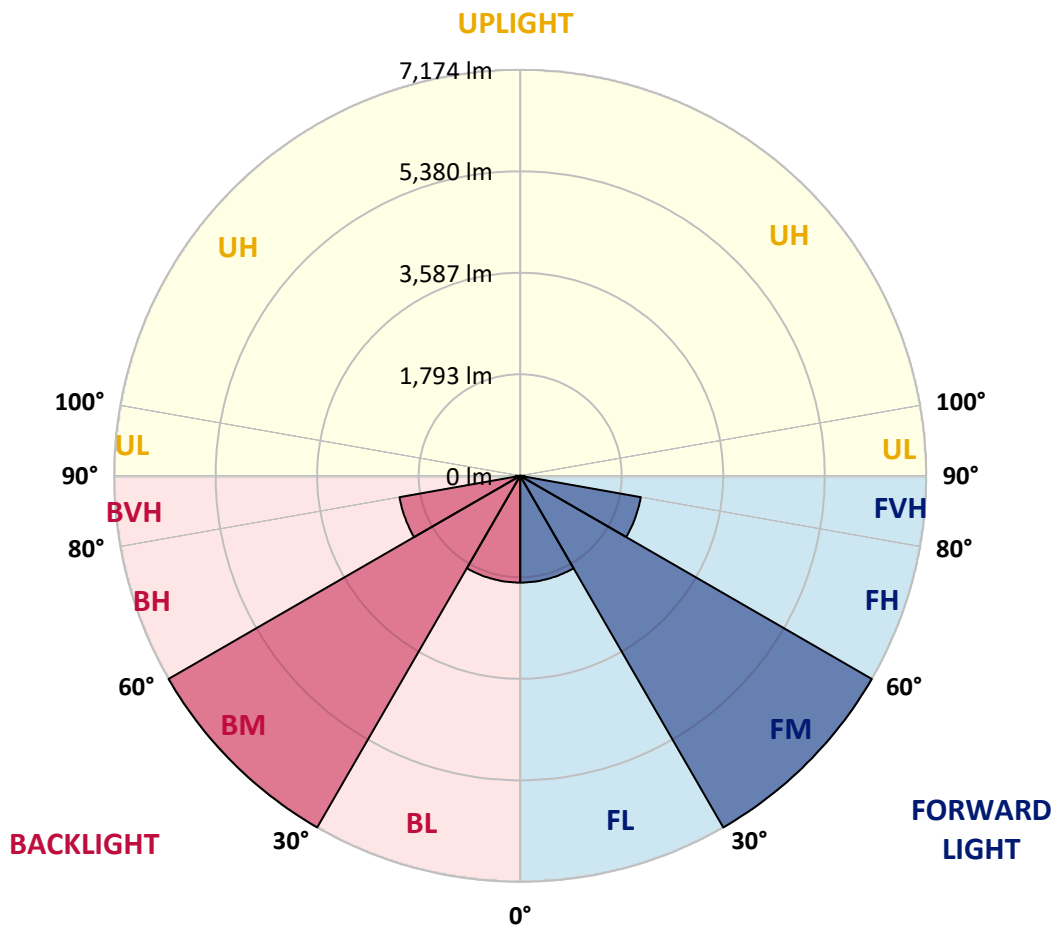
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1885.9	8.3			
FM (30°-60°)	7173.7	31.7			
FH (60°-80°)	2164.7	9.6			G2/5000
FVH (80°-90°)	75.2	0.3			G1/100
BL (0°-30°)	1885.9	8.3	B3/2500		
BM (30°-60°)	7173.7	31.7	B4/8500		
BH (60°-80°)	2164.7	9.6	B3/2500		G2/5000
BVH (80°-90°)	75.2	0.3			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4365.0	4365.0	4365.0	4365.0	4365.0	4365.0	4365.0	4365.0	4365.0	4365.0	4365.0
2.5°	4339.0	4370.8	4347.7	4367.9	4365.0	4356.4	4341.9	4333.2	4321.6	4339.0	4310.0
5°	4321.6	4347.7	4373.7	4339.0	4339.0	4321.6	4312.9	4295.5	4295.5	4292.6	4289.7
7.5°	4350.6	4324.5	4312.9	4318.7	4324.5	4286.8	4312.9	4278.2	4249.2	4269.5	4292.6
10°	4324.5	4336.1	4292.6	4312.9	4281.0	4286.8	4269.5	4292.6	4260.8	4260.8	4260.8
12.5°	4350.6	4318.7	4333.2	4318.7	4310.0	4260.8	4283.9	4257.9	4255.0	4283.9	4257.9
15°	4402.7	4350.6	4339.0	4310.0	4318.7	4318.7	4295.5	4298.4	4266.6	4283.9	4289.7
17.5°	4385.3	4356.4	4347.7	4312.9	4341.9	4350.6	4307.1	4278.2	4298.4	4295.5	4292.6
20°	4399.8	4411.4	4402.7	4408.5	4420.1	4396.9	4356.4	4315.8	4289.7	4327.4	4324.5
22.5°	4492.5	4480.9	4475.1	4469.3	4489.6	4512.8	4457.7	4394.0	4394.0	4420.1	4431.7
25°	4567.8	4564.9	4562.0	4588.1	4657.6	4657.6	4588.1	4507.0	4486.7	4504.1	4489.6
27.5°	4677.9	4709.7	4698.1	4744.5	4845.9	4869.0	4776.4	4680.8	4625.7	4605.5	4631.5
30°	4929.9	4892.2	4900.9	4950.1	5039.9	5115.2	4973.3	4871.9	4796.6	4793.7	4805.3
32.5°	5097.9	5126.8	5152.9	5199.2	5341.2	5399.1	5228.2	5063.1	5016.8	4990.7	4999.4
35°	5433.9	5407.8	5402.0	5448.3	5590.3	5685.9	5471.5	5326.7	5265.9	5323.8	5323.8
37.5°	5752.5	5680.1	5625.0	5685.9	5816.2	5827.8	5645.3	5567.1	5535.2	5601.9	5599.0
40°	5903.1	5897.3	5769.9	5804.6	5978.4	5995.8	5824.9	5732.2	5726.4	5813.3	5900.2
42.5°	6059.5	6004.5	5877.0	5900.2	6007.4	6013.2	5851.0	5824.9	5888.6	5972.6	5978.4
45°	6085.6	6039.2	5958.1	5900.2	5978.4	5995.8	5900.2	5917.6	5923.4	6024.7	6024.7
47.5°	6137.7	6131.9	6085.6	6042.1	6056.6	6042.1	5981.3	6007.4	6094.3	6143.5	6120.3
50°	6282.5	6221.7	6268.1	6230.4	6233.3	6273.8	6218.8	6244.9	6227.5	6184.1	6155.1
52.5°	6601.2	6572.2	6612.7	6638.8	6667.8	6760.5	6696.7	6557.7	6427.4	6311.5	6308.6
55°	7067.5	7087.8	7166.0	7299.2	7412.2	7559.9	7252.9	6919.8	6711.2	6528.7	6540.3
57.5°	7507.8	7493.3	7600.5	7904.6	8234.8	8310.1	7707.6	7232.6	6893.7	6777.8	6728.6
59°	7154.4	7223.9	7467.2	7806.1	8324.6	8434.6	7646.8	6977.7	6618.5	6383.9	6424.5
60°	6598.3	6624.3	6841.6	7313.7	8014.7	8202.9	7238.4	6583.8	6105.9	5969.7	6030.5
62.5°	4663.4	4643.1	4799.5	5184.8	5813.3	6068.2	5381.7	4921.2	4619.9	4469.3	4504.1
65°	2479.4	2572.1	2635.8	2876.2	3209.3	3478.7	3194.9	2995.0	2827.0	2702.4	2699.6
67.5°	1674.2	1662.6	1677.1	1732.1	1845.1	1920.4	1914.6	1813.2	1798.7	1775.6	1801.6
70°	1410.6	1404.8	1378.7	1378.7	1401.9	1419.3	1439.6	1451.2	1474.3	1503.3	1500.4
72.5°	1144.1	1129.6	1112.3	1103.6	1132.5	1141.2	1167.3	1178.9	1199.2	1196.3	1222.3
75°	756.0	756.0	776.3	799.4	808.1	825.5	828.4	863.2	863.2	869.0	845.8
77.5°	422.9	411.3	425.8	449.0	469.2	501.1	533.0	559.0	573.5	567.7	567.7
80°	246.2	246.2	260.7	286.8	312.8	341.8	365.0	385.2	399.7	393.9	382.3
82.5°	153.5	153.5	168.0	194.1	214.3	231.7	263.6	289.7	307.0	301.2	286.8
85°	78.2	78.2	95.6	113.0	139.0	150.6	147.7	136.1	133.2	118.8	118.8
87.5°	20.3	20.3	29.0	31.9	26.1	29.0	29.0	29.0	29.0	29.0	31.9
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)