

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: LUMARK

Report Number: P961001

Luminaire Tested: **NAV-SB1D-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961001
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1D-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8975.9 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

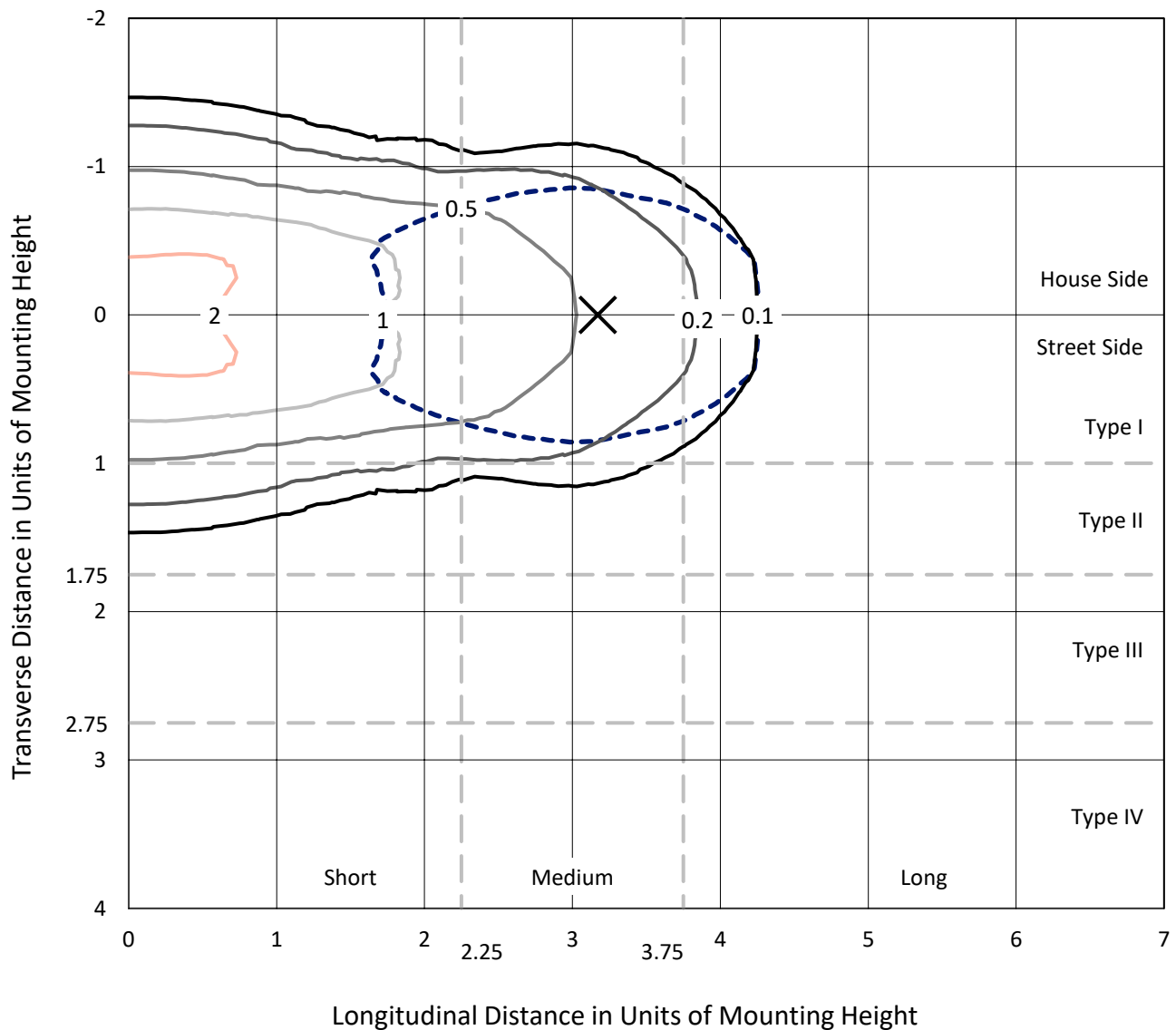
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

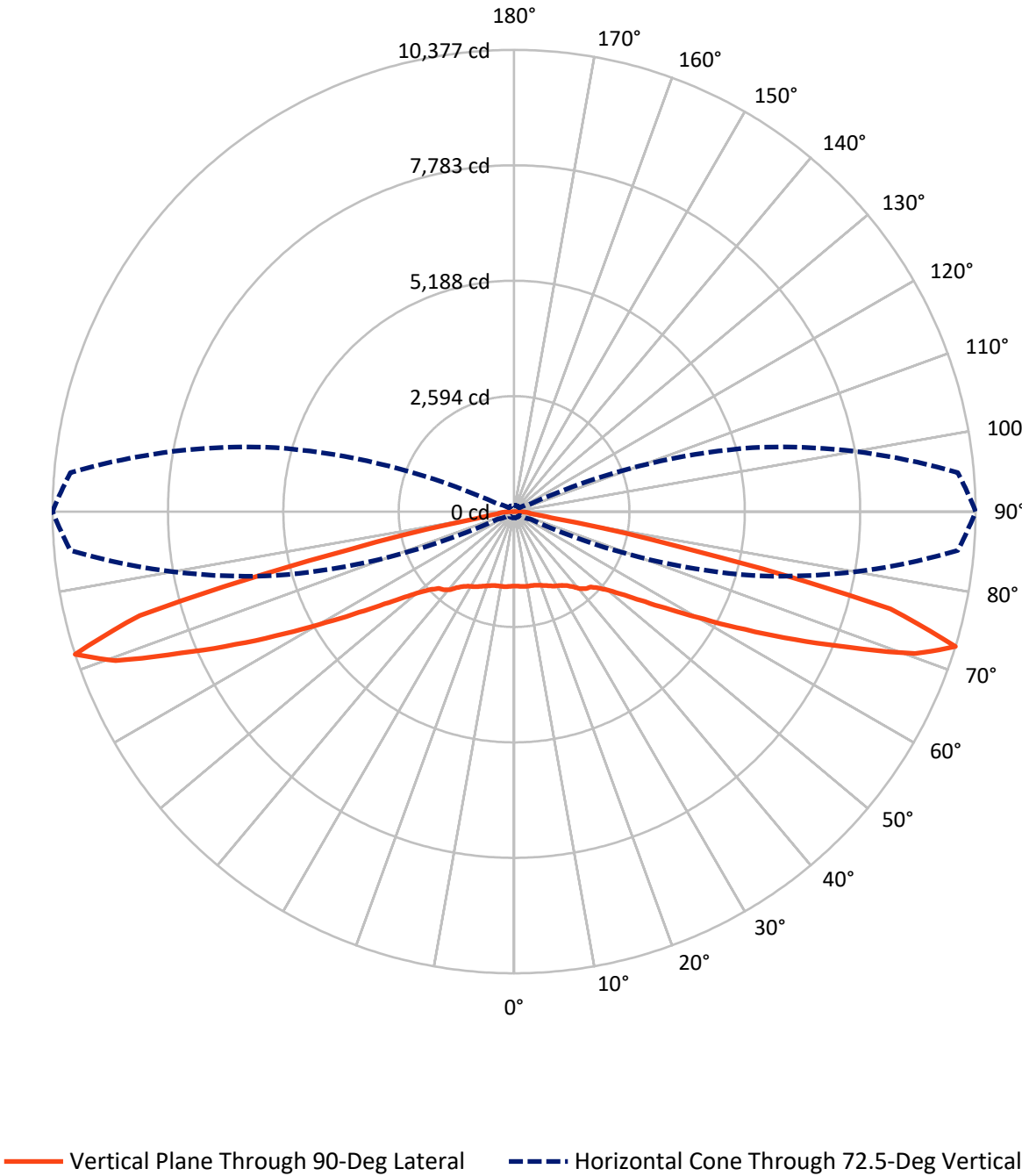
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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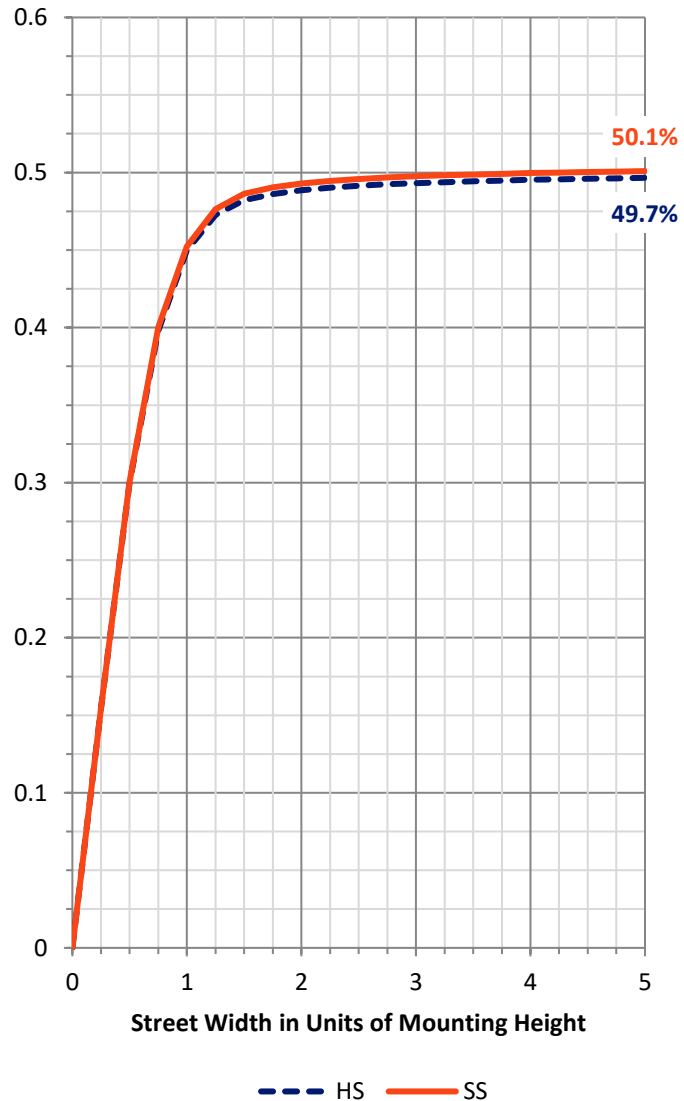
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4487.9	0.0	4487.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4487.9	0.0	4487.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	8975.9	0.0	8975.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.6	1.8
10°-20°	497.3	5.5
20°-30°	829.1	9.2
30°-40°	1140.3	12.7
40°-50°	1392.6	15.5
50°-60°	1610.7	17.9
60°-70°	1920.5	21.4
70°-80°	1340.4	14.9
80°-90°	82.3	0.9
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°	8975.9	100.0
0°-180°	8975.9	100.0

Coefficient of Utilization



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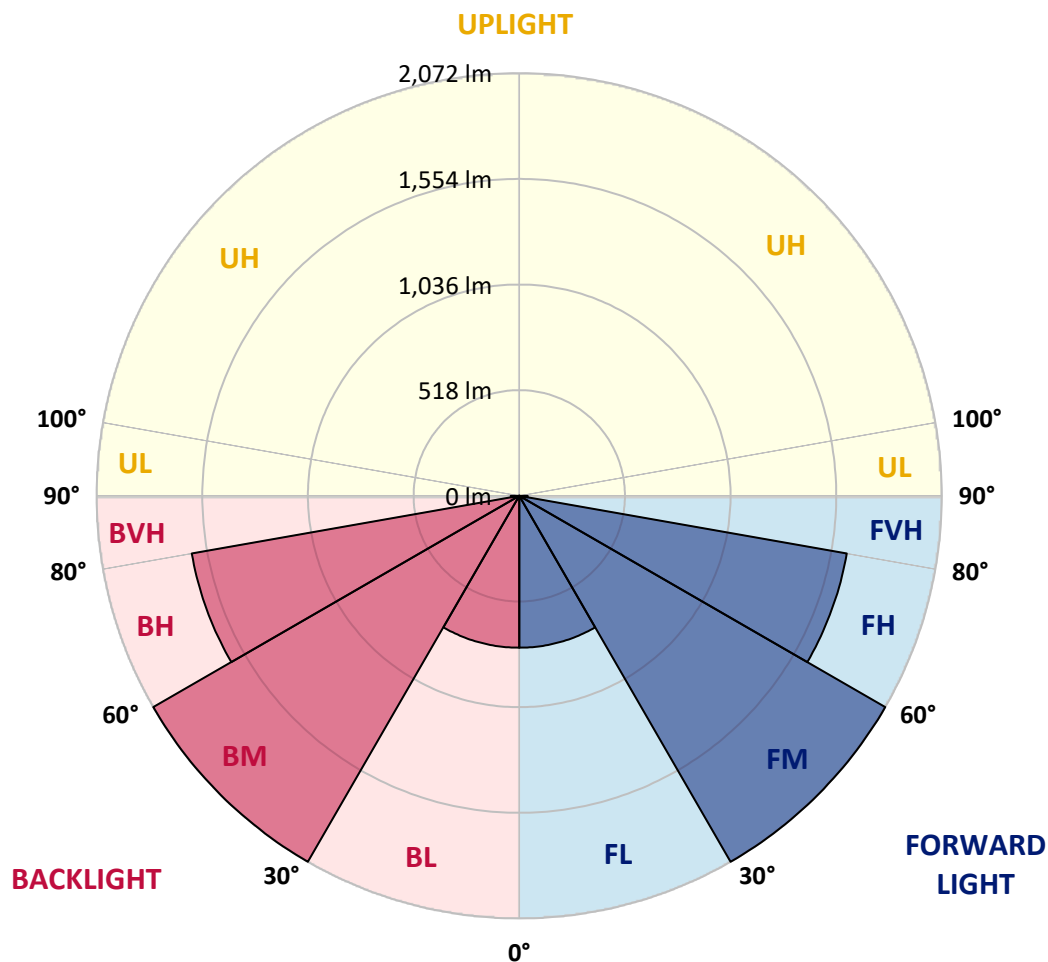
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	744.5	8.3			
FM	(30°-60°)	2071.8	23.1			
FH	(60°-80°)	1630.5	18.2			G1/1800
FVH	(80°-90°)	41.2	0.5			G1/100
BL	(0°-30°)	744.5	8.3	B2/1000		
BM	(30°-60°)	2071.8	23.1	B2/2500		
BH	(60°-80°)	1630.5	18.2	B3/2500		G3/2500
BVH	(80°-90°)	41.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1677.2	1677.2	1677.2	1677.2	1677.2	1677.2	1677.2	1677.2	1677.2	1677.2	1677.2
2.5°	1678.6	1680.6	1680.6	1679.2	1682.5	1679.7	1679.7	1678.2	1679.7	1678.2	1678.2
5°	1687.3	1689.6	1690.6	1690.1	1694.4	1692.1	1692.1	1690.1	1690.6	1689.2	1689.2
7.5°	1703.4	1706.8	1708.8	1711.1	1717.3	1714.4	1712.6	1706.8	1704.5	1700.6	1700.6
10°	1708.8	1712.6	1718.7	1731.1	1745.5	1746.0	1740.2	1725.9	1714.9	1706.3	1704.9
12.5°	1692.5	1697.7	1710.6	1735.9	1767.9	1780.7	1771.7	1747.8	1726.4	1711.1	1708.8
15°	1672.0	1677.7	1697.3	1735.4	1782.7	1812.7	1811.8	1780.3	1746.0	1722.1	1718.3
17.5°	1640.0	1645.7	1673.9	1727.3	1794.2	1843.8	1857.1	1824.6	1776.4	1744.6	1739.2
20°	1582.3	1587.5	1626.7	1701.6	1798.0	1876.7	1911.4	1882.8	1822.8	1779.3	1771.2
22.5°	1507.5	1515.6	1561.3	1657.2	1788.8	1911.0	1973.4	1954.0	1876.7	1816.5	1805.5
25°	1427.3	1435.8	1489.3	1602.8	1765.5	1935.8	2046.9	2034.5	1937.7	1862.8	1847.6
27.5°	1358.1	1367.1	1425.4	1548.9	1729.3	1945.3	2119.5	2125.6	2011.7	1913.9	1897.7
30°	1303.7	1312.3	1374.3	1505.5	1682.5	1935.8	2182.9	2225.8	2087.0	1958.3	1934.9
32.5°	1244.1	1255.1	1320.4	1452.5	1627.2	1912.9	2238.2	2334.1	2174.3	2005.9	1976.3
35°	1168.7	1178.8	1247.4	1380.1	1554.6	1876.2	2284.5	2454.4	2299.3	2078.4	2045.5
37.5°	1077.2	1086.7	1154.9	1289.4	1482.7	1824.6	2319.8	2589.8	2448.1	2182.9	2139.0
40°	985.0	994.1	1058.1	1188.3	1396.3	1758.8	2332.2	2722.4	2618.9	2326.4	2279.7
42.5°	900.7	908.8	967.4	1088.6	1299.4	1674.8	2316.0	2837.9	2772.0	2426.7	2366.5
45°	822.9	830.0	882.0	995.1	1198.7	1572.8	2267.3	2961.9	2954.3	2498.2	2417.2
47.5°	734.1	741.3	795.2	904.5	1098.1	1453.0	2184.8	3084.0	3207.5	2660.4	2566.9
50°	625.9	632.1	687.4	800.0	993.6	1325.6	2070.3	3179.9	3527.1	2906.1	2788.7
52.5°	497.5	504.2	558.1	670.7	869.6	1188.8	1919.6	3242.4	3896.4	3264.8	3120.3
55°	370.1	374.9	421.7	522.9	716.1	1032.8	1730.7	3260.0	4315.2	3755.2	3574.4
57.5°	268.5	271.4	301.5	376.9	542.8	837.6	1501.2	3214.2	4813.7	4383.9	4156.4
60°	217.5	218.5	227.6	261.0	377.3	617.3	1224.1	3056.9	5354.7	5194.4	4907.7
62.5°	197.5	197.5	199.9	208.9	255.2	407.3	888.7	2730.5	5934.7	6218.6	5834.6
65°	183.7	183.7	184.6	188.9	201.3	259.5	561.0	2199.1	6423.7	7418.3	6932.7
67.5°	171.3	171.7	171.3	172.7	179.9	191.8	325.3	1518.8	6687.0	8661.5	8137.3
70°	158.4	159.3	156.9	156.9	162.7	163.2	203.7	832.9	6468.6	9703.4	9565.5
72.5°	143.1	144.5	140.7	139.8	144.1	142.2	153.1	399.7	5553.7	10014.4	10376.9
75°	129.8	131.6	123.1	120.6	120.6	119.2	124.5	205.1	3604.4	8169.1	8737.8
77.5°	117.9	121.7	107.8	100.1	98.3	94.0	101.6	125.5	1576.6	3835.3	3755.7
80°	97.3	102.6	88.8	79.6	76.4	71.5	80.2	87.7	468.9	890.6	852.9
82.5°	72.5	74.9	62.9	56.8	53.9	50.5	60.1	61.1	152.6	315.3	356.4
85°	46.2	47.3	38.6	33.4	32.0	30.5	38.1	33.4	58.2	231.9	336.8
87.5°	16.2	18.7	14.8	13.3	14.3	11.9	17.6	10.0	16.2	163.6	202.7
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)