

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: P960366

Luminaire Tested: **NAV-SB1C-740-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-740-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8512.7 lumens
Efficiency: N/A
Efficacy: 156.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

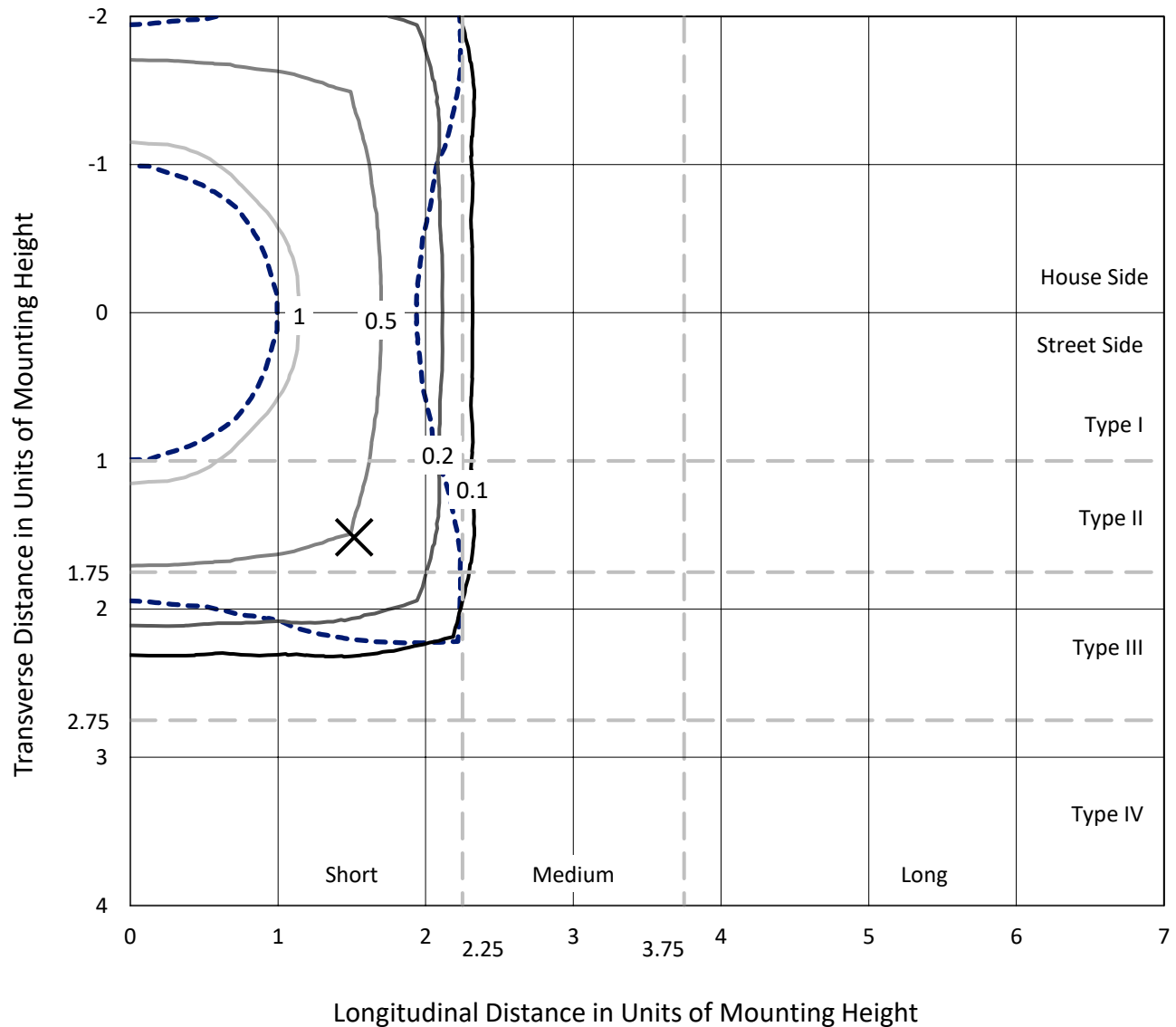
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

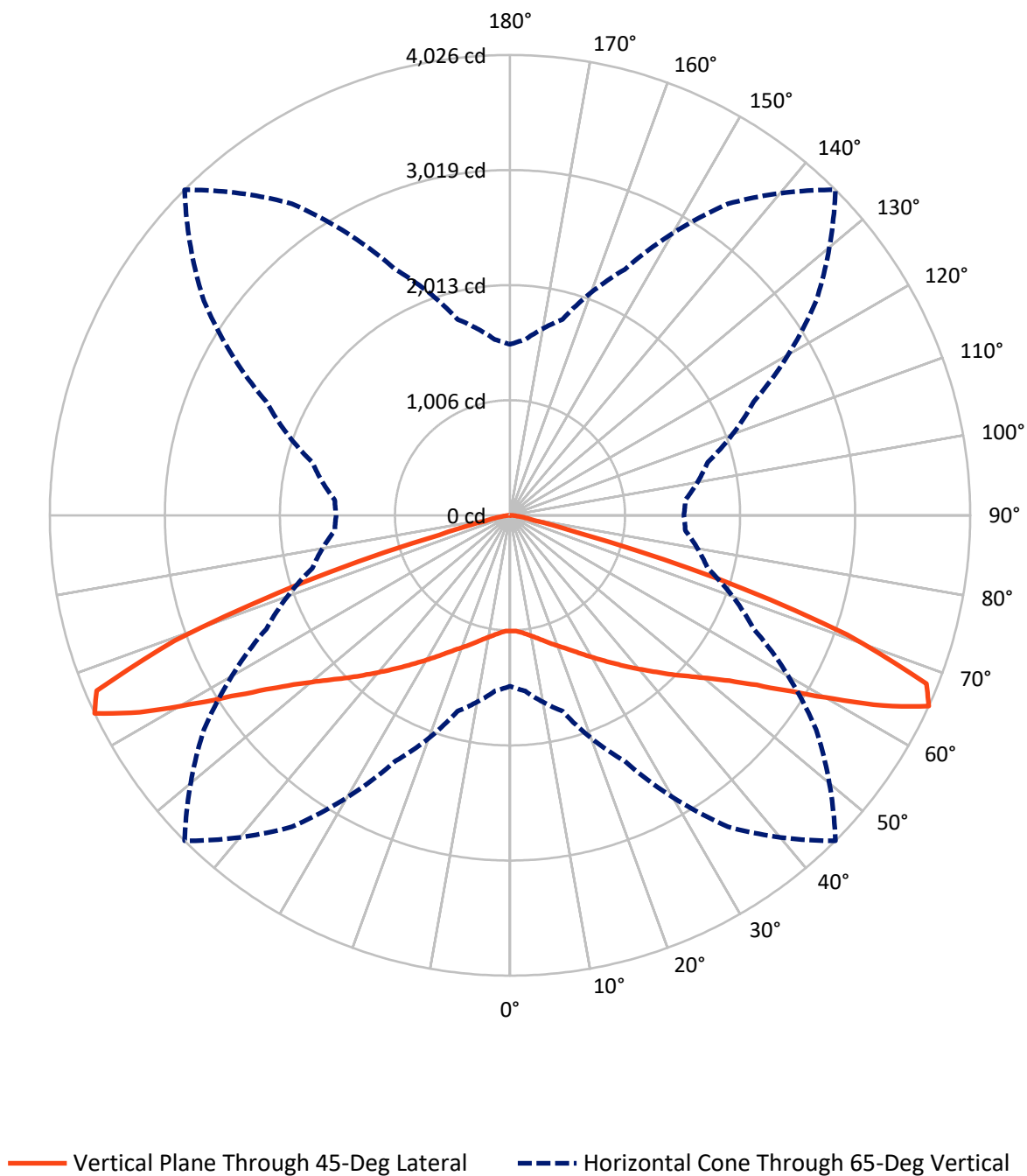
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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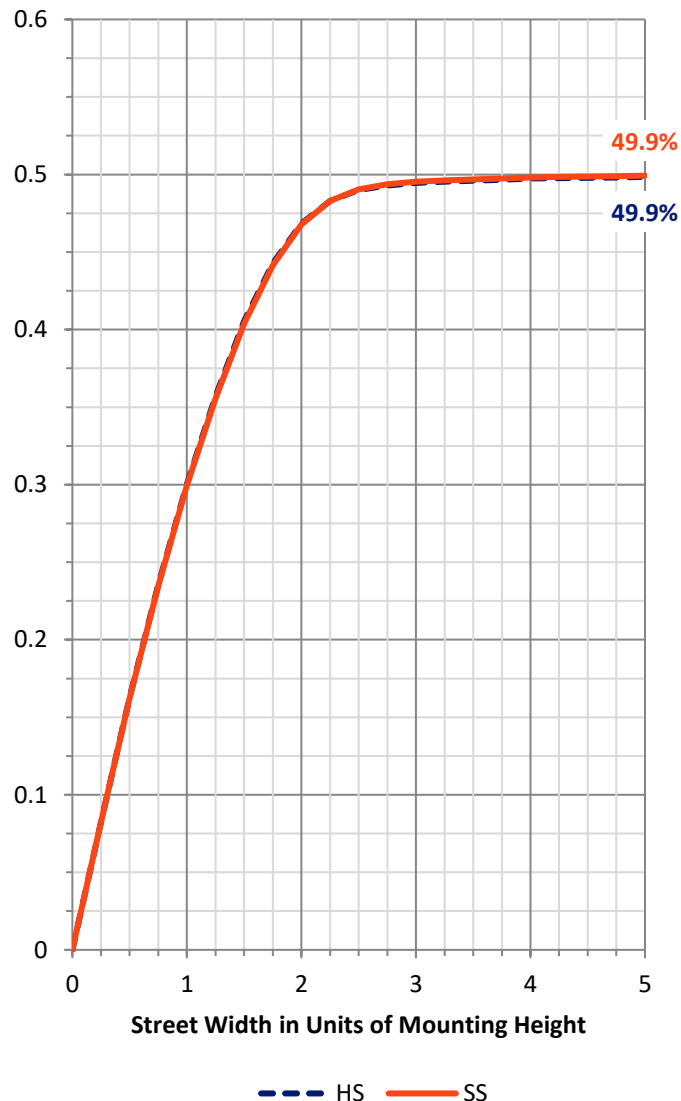
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4256.3	0.0	4256.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4256.3	0.0	4256.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	8512.7	0.0	8512.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.0	1.2
10°-20°	326.3	3.8
20°-30°	616.0	7.2
30°-40°	1008.7	11.8
40°-50°	1564.0	18.4
50°-60°	2310.3	27.1
60°-70°	2199.2	25.8
70°-80°	354.9	4.2
80°-90°	33.5	0.4
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°	8512.7	100.0
0°-180°	8512.7	100.0

Coefficient of Utilization



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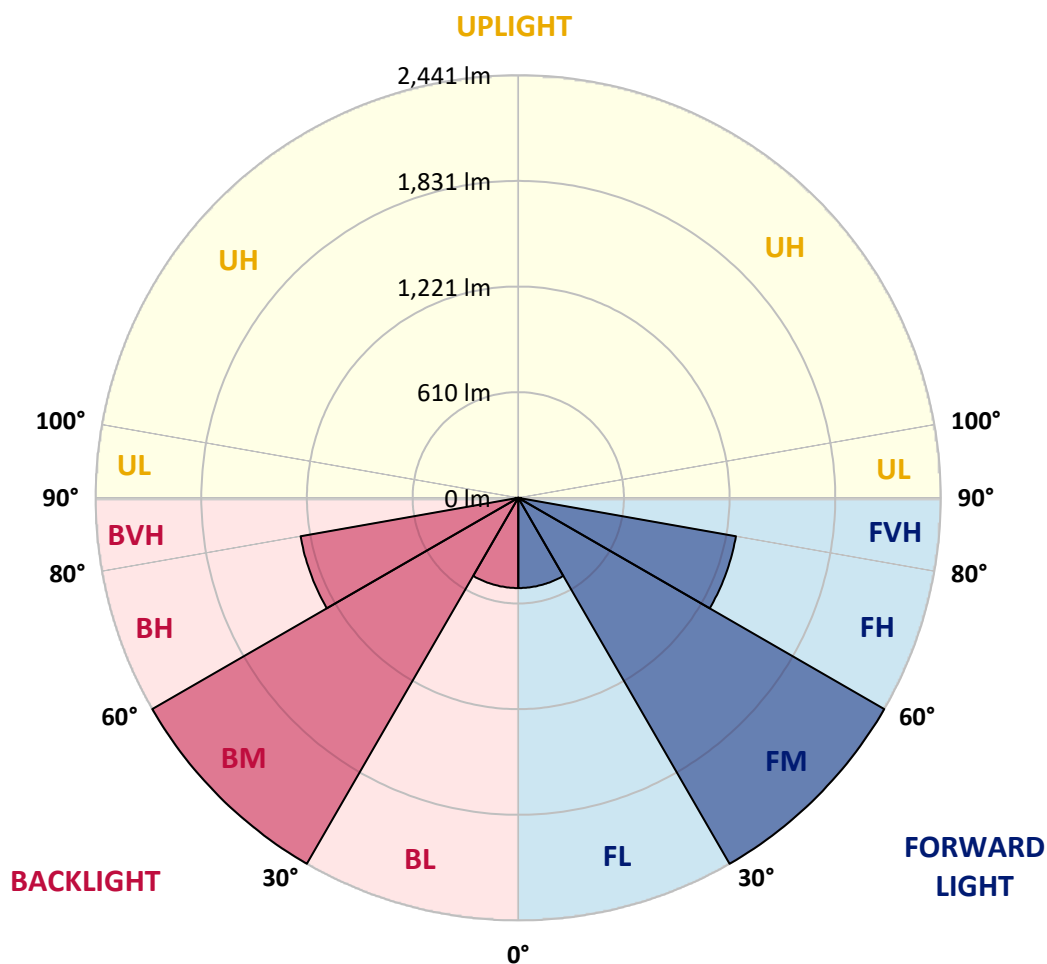
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	521.1	6.1			
FM	(30°-60°)	2441.5	28.7			
FH	(60°-80°)	1277.0	15.0			G1/1800
FVH	(80°-90°)	16.7	0.2			G1/100
BL	(0°-30°)	521.1	6.1	B2/1000		
BM	(30°-60°)	2441.5	28.7	B2/2500		
BH	(60°-80°)	1277.0	15.0	B3/2500		G1/1800
BVH	(80°-90°)	16.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1013.1	1013.1	1013.1	1013.1	1013.1	1013.1	1013.1	1013.1	1013.1	1013.1	1013.1
2.5°	1019.9	1016.5	1019.1	1016.9	1015.3	1013.5	1014.3	1017.3	1018.6	1019.1	1019.1
5°	1033.6	1030.6	1031.9	1031.9	1028.9	1028.1	1028.5	1030.6	1033.2	1033.2	1033.2
7.5°	1055.8	1052.8	1055.8	1054.1	1051.5	1050.6	1050.2	1052.0	1055.8	1055.8	1054.5
10°	1082.7	1079.3	1081.0	1080.1	1077.2	1075.8	1075.4	1078.0	1081.4	1081.0	1080.1
12.5°	1112.1	1108.3	1110.5	1107.9	1107.0	1105.8	1105.8	1105.4	1107.5	1105.8	1106.6
15°	1145.0	1142.5	1143.4	1141.6	1143.0	1142.1	1138.7	1136.9	1137.9	1135.3	1135.7
17.5°	1184.0	1177.9	1180.9	1180.1	1180.1	1181.8	1176.3	1174.1	1175.8	1173.2	1175.4
20°	1228.8	1222.8	1224.1	1222.4	1220.3	1221.9	1215.1	1216.8	1218.1	1216.4	1220.3
22.5°	1277.9	1270.2	1269.8	1270.6	1266.0	1266.4	1261.7	1266.0	1268.5	1263.8	1268.5
25°	1328.3	1320.2	1325.7	1323.6	1317.6	1318.9	1315.5	1319.8	1321.8	1315.9	1322.8
27.5°	1381.7	1376.2	1381.3	1382.5	1375.2	1380.4	1375.2	1379.1	1381.3	1372.3	1379.1
30°	1444.0	1438.5	1443.2	1446.6	1438.1	1446.2	1441.9	1444.4	1444.8	1434.2	1440.6
32.5°	1512.0	1503.4	1515.4	1517.1	1507.7	1517.5	1512.0	1515.4	1517.5	1503.0	1512.8
35°	1594.8	1584.1	1597.8	1595.6	1587.5	1595.6	1590.5	1595.6	1600.7	1583.3	1594.0
37.5°	1684.1	1673.0	1687.5	1683.7	1676.0	1681.5	1678.5	1681.9	1690.0	1671.3	1682.7
40°	1782.3	1768.6	1788.3	1781.4	1774.2	1773.4	1775.0	1777.1	1787.8	1766.9	1773.8
42.5°	1887.3	1872.9	1902.3	1891.6	1881.4	1874.5	1880.1	1884.4	1894.6	1871.1	1883.5
45°	2007.4	1990.8	2029.2	2016.4	2000.1	1986.0	1995.0	2001.4	2016.4	1988.2	2002.6
47.5°	2139.8	2121.0	2162.0	2158.1	2131.7	2100.9	2121.4	2139.8	2150.9	2116.7	2128.2
50°	2269.2	2254.7	2308.5	2313.2	2280.7	2237.6	2266.2	2294.0	2296.9	2252.1	2257.7
52.5°	2390.5	2376.0	2454.2	2483.6	2454.6	2403.3	2433.7	2461.8	2439.2	2381.1	2382.8
55°	2487.5	2475.5	2575.0	2651.1	2660.9	2618.6	2636.5	2635.7	2561.4	2472.1	2475.1
57.5°	2510.9	2509.2	2634.8	2795.8	2898.3	2903.4	2868.0	2777.4	2617.2	2497.3	2489.6
60°	2404.1	2414.8	2587.4	2871.4	3144.8	3258.4	3105.0	2846.6	2553.7	2387.1	2367.4
62.5°	2084.6	2112.8	2320.9	2779.2	3343.8	3666.6	3295.1	2741.6	2292.3	2074.9	2062.1
65°	1494.0	1543.1	1772.9	2371.7	3325.8	4025.5	3267.8	2352.5	1790.0	1539.2	1520.9
67.5°	677.8	727.7	923.0	1623.8	2891.0	3928.1	2884.2	1640.9	969.1	730.3	719.7
70°	245.6	254.1	316.9	650.1	1847.7	3129.8	1926.7	654.8	337.0	270.8	267.3
72.5°	148.6	150.0	163.2	232.8	642.0	1900.1	669.2	240.5	166.6	147.8	150.4
75°	94.4	93.6	116.1	142.3	227.7	641.0	238.7	142.3	115.7	105.5	106.4
77.5°	68.0	70.0	83.3	106.4	143.5	217.4	140.9	101.7	83.3	68.4	69.6
80°	50.8	52.1	60.7	82.8	100.8	135.4	89.7	75.1	62.8	42.7	44.0
82.5°	36.7	36.7	39.8	60.3	61.5	73.1	48.7	53.0	41.4	30.3	30.3
85°	21.8	21.3	24.8	35.9	32.1	27.0	22.2	32.5	26.0	18.8	18.3
87.5°	7.7	8.1	7.7	10.2	8.5	7.3	6.9	9.0	7.3	6.5	5.9
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)