

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: P962101

Luminaire Tested: **NAV-SB2B-835-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962101
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-835-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11212.5 lumens
Efficiency: N/A
Efficacy: 151.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

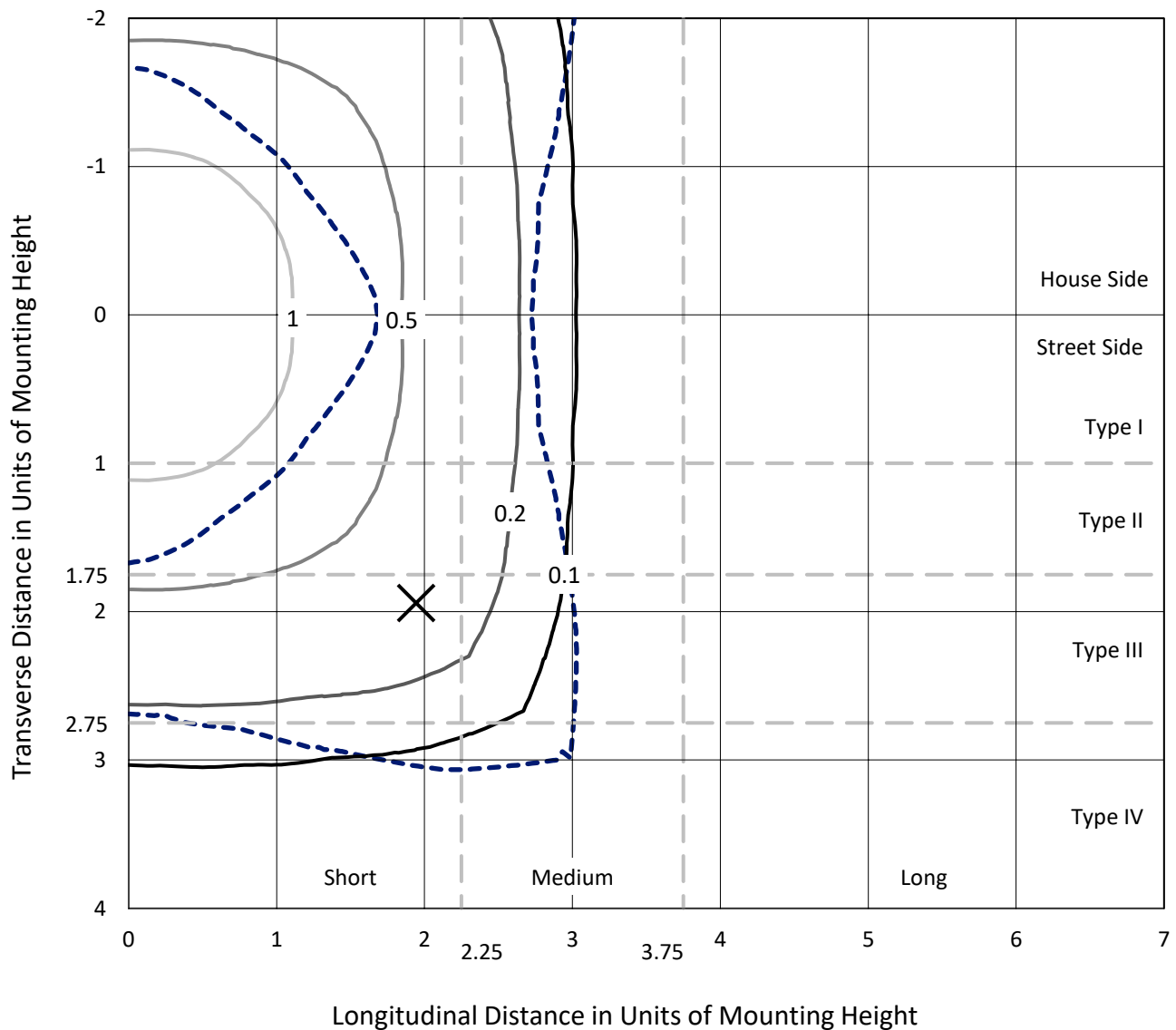
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

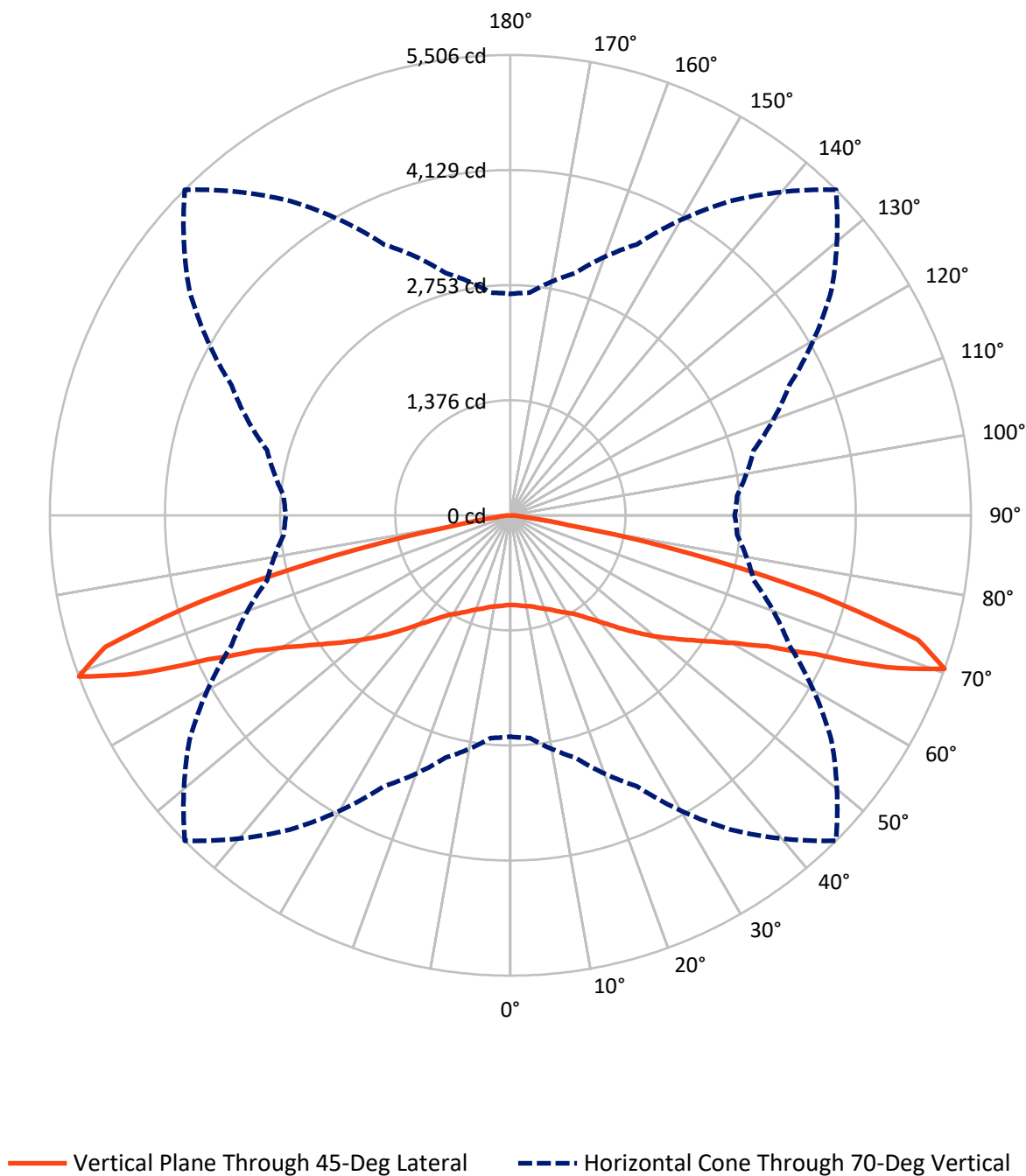
× Max cd
- - - 1/2 Max cd



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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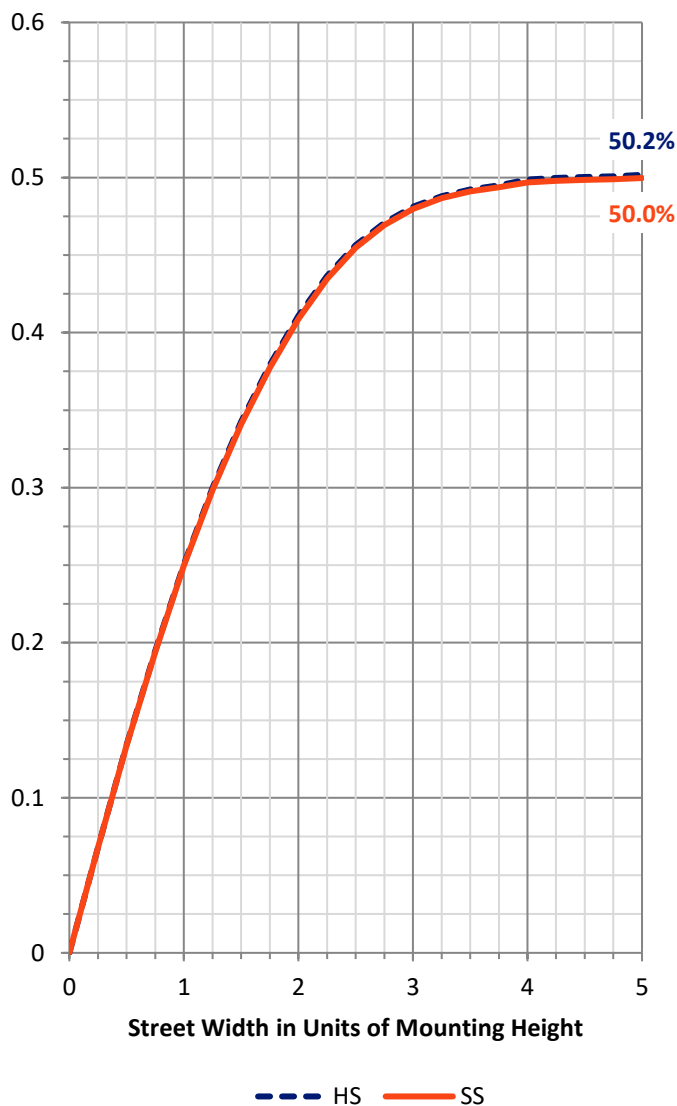
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5606.2	0.0	5606.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5606.2	0.0	5606.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	11212.5	0.0	11212.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.3	0.9
10°-20°	323.6	2.9
20°-30°	578.2	5.2
30°-40°	937.3	8.4
40°-50°	1526.7	13.6
50°-60°	2327.7	20.8
60°-70°	3462.9	30.9
70°-80°	1887.4	16.8
80°-90°	64.3	0.6
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°	11212.5	100.0
0°-180°	11212.5	100.0

Coefficient of Utilization



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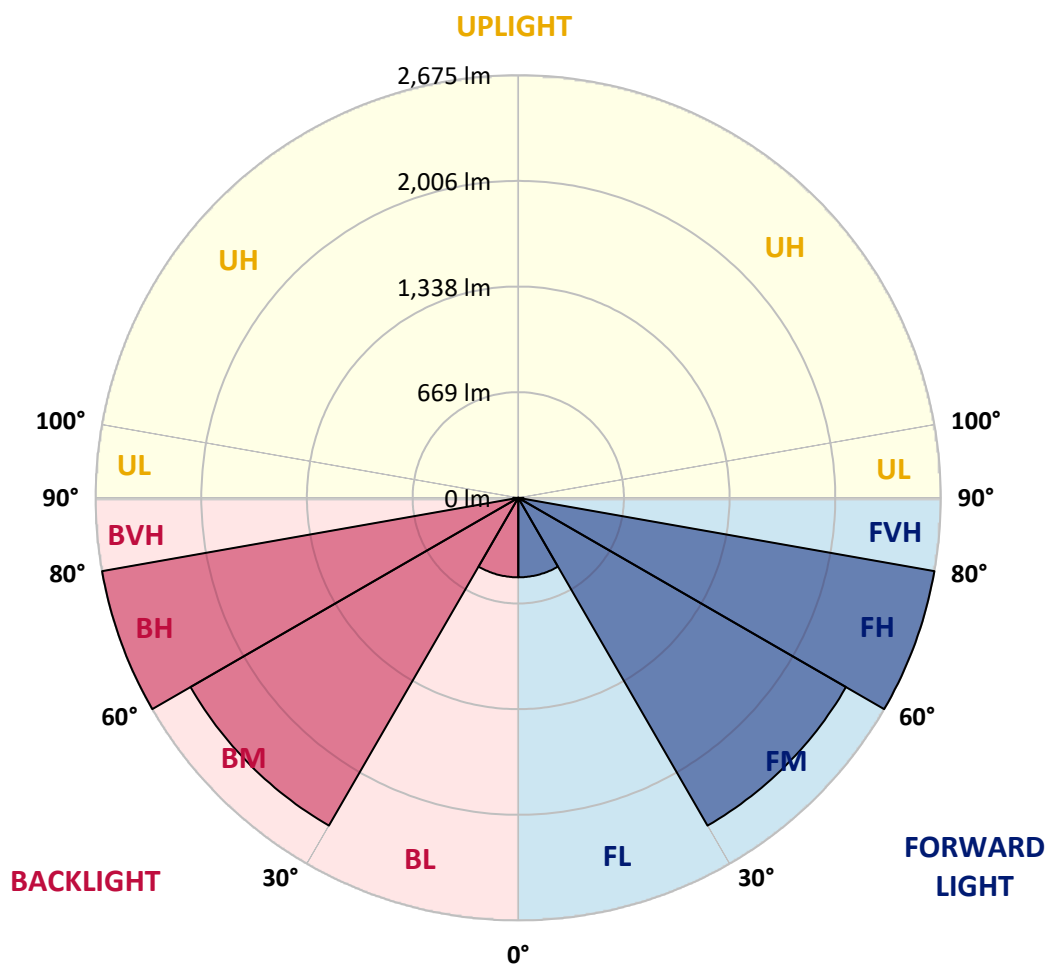
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	503.1	4.5			
FM	(30°-60°)	2395.9	21.4			
FH	(60°-80°)	2675.2	23.9			G2/5000
FVH	(80°-90°)	32.1	0.3			G1/100
BL	(0°-30°)	503.1	4.5	B2/1000		
BM	(30°-60°)	2395.9	21.4	B2/2500		
BH	(60°-80°)	2675.2	23.9	B4/5000		G2/5000
BVH	(80°-90°)	32.1	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°	1074.0	1074.0	1074.0	1074.0	1074.0	1074.0	1074.0	1074.0	1074.0	1074.0	1074.0
2.5°	1079.1	1080.2	1078.0	1076.9	1075.7	1074.0	1074.6	1077.4	1079.6	1079.1	1079.6
5°	1088.1	1089.3	1087.5	1087.0	1084.8	1084.1	1084.1	1087.0	1088.7	1087.5	1088.1
7.5°	1098.3	1099.9	1097.2	1096.5	1095.4	1094.3	1093.8	1096.5	1098.3	1098.3	1098.3
10°	1107.8	1109.5	1107.2	1105.6	1104.4	1104.4	1103.3	1105.6	1108.3	1107.8	1107.8
12.5°	1118.0	1119.1	1116.8	1115.7	1115.7	1117.4	1115.7	1116.8	1119.1	1118.0	1117.4
15°	1130.4	1130.9	1130.4	1132.0	1134.9	1140.4	1135.4	1134.3	1135.4	1132.6	1132.6
17.5°	1147.2	1148.3	1150.6	1154.6	1158.5	1168.6	1159.6	1156.8	1156.8	1151.2	1151.2
20°	1168.1	1169.7	1173.1	1179.9	1184.9	1194.5	1185.5	1181.5	1179.9	1172.6	1172.6
22.5°	1190.0	1192.8	1197.9	1206.9	1215.9	1224.9	1215.9	1209.1	1204.1	1194.5	1193.9
25°	1215.3	1218.7	1226.6	1241.3	1253.6	1266.6	1255.8	1242.3	1232.3	1218.7	1218.1
27.5°	1251.3	1255.3	1264.8	1282.9	1298.7	1309.9	1299.8	1282.3	1268.2	1251.9	1251.3
30°	1302.1	1306.0	1317.2	1336.4	1347.1	1354.3	1347.6	1334.1	1317.2	1298.7	1298.7
32.5°	1367.4	1372.4	1384.8	1402.8	1405.1	1406.2	1403.9	1397.2	1384.8	1362.2	1362.8
35°	1450.1	1455.7	1469.7	1484.4	1482.1	1484.4	1481.0	1478.8	1469.7	1443.9	1443.9
37.5°	1551.4	1558.1	1572.8	1584.0	1578.4	1575.6	1576.1	1576.8	1571.6	1542.9	1542.9
40°	1669.0	1678.0	1688.8	1700.6	1690.9	1682.5	1688.2	1692.7	1688.2	1658.9	1658.9
42.5°	1790.1	1803.0	1814.2	1831.2	1823.3	1812.6	1820.5	1825.5	1816.0	1784.4	1786.7
45°	1924.6	1936.9	1951.6	1976.9	1971.3	1960.1	1971.3	1972.4	1956.1	1919.0	1922.9
47.5°	2063.6	2076.5	2098.6	2132.3	2130.1	2117.6	2132.3	2124.4	2103.6	2059.1	2056.4
50°	2195.3	2213.4	2247.1	2294.5	2299.0	2283.7	2303.5	2288.2	2253.4	2197.6	2196.5
52.5°	2319.2	2338.3	2391.8	2456.0	2472.3	2452.6	2479.1	2452.6	2400.2	2328.8	2322.0
55°	2449.2	2470.7	2534.2	2618.2	2650.8	2636.1	2660.9	2620.9	2546.6	2459.9	2448.1
57.5°	2602.4	2615.3	2691.2	2791.0	2846.1	2849.5	2860.8	2793.2	2703.1	2604.6	2591.1
60°	2768.4	2786.5	2869.2	2988.5	3075.7	3103.9	3092.1	2991.9	2887.2	2774.1	2756.0
62.5°	2981.2	3000.9	3100.0	3242.9	3380.9	3450.7	3404.5	3259.3	3129.8	2994.1	2970.4
65°	3157.4	3179.3	3358.3	3613.3	3864.4	4004.6	3888.6	3621.2	3388.1	3196.8	3165.3
67.5°	3029.6	3056.7	3337.5	3805.8	4430.2	4848.4	4451.5	3863.2	3406.8	3147.3	3108.4
70°	2648.0	2673.3	3000.9	3573.4	4589.4	5505.9	4685.2	3678.6	3011.6	2721.2	2682.3
72.5°	1758.0	1839.6	2171.2	2857.9	4098.1	5095.0	4138.5	2799.9	2014.1	1754.1	1697.2
75°	583.2	648.5	874.7	1481.6	2744.7	3810.3	2613.0	1311.0	692.9	498.8	471.7
77.5°	146.9	169.4	233.6	423.8	1094.9	2169.5	985.6	346.1	188.6	131.7	117.7
80°	71.4	78.8	112.5	141.2	274.2	689.6	257.3	132.8	89.0	68.7	63.0
82.5°	39.4	40.0	63.7	79.9	101.9	178.5	105.8	77.7	51.2	41.6	41.6
85°	24.2	23.7	33.8	42.7	42.7	63.7	50.6	42.7	29.3	25.9	27.1
87.5°	9.5	9.5	12.4	13.5	11.8	16.3	12.9	14.0	11.3	10.7	11.3
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)