

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: P963653

Luminaire Tested: **NAV-SB3A-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963653
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-830-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12538.8 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

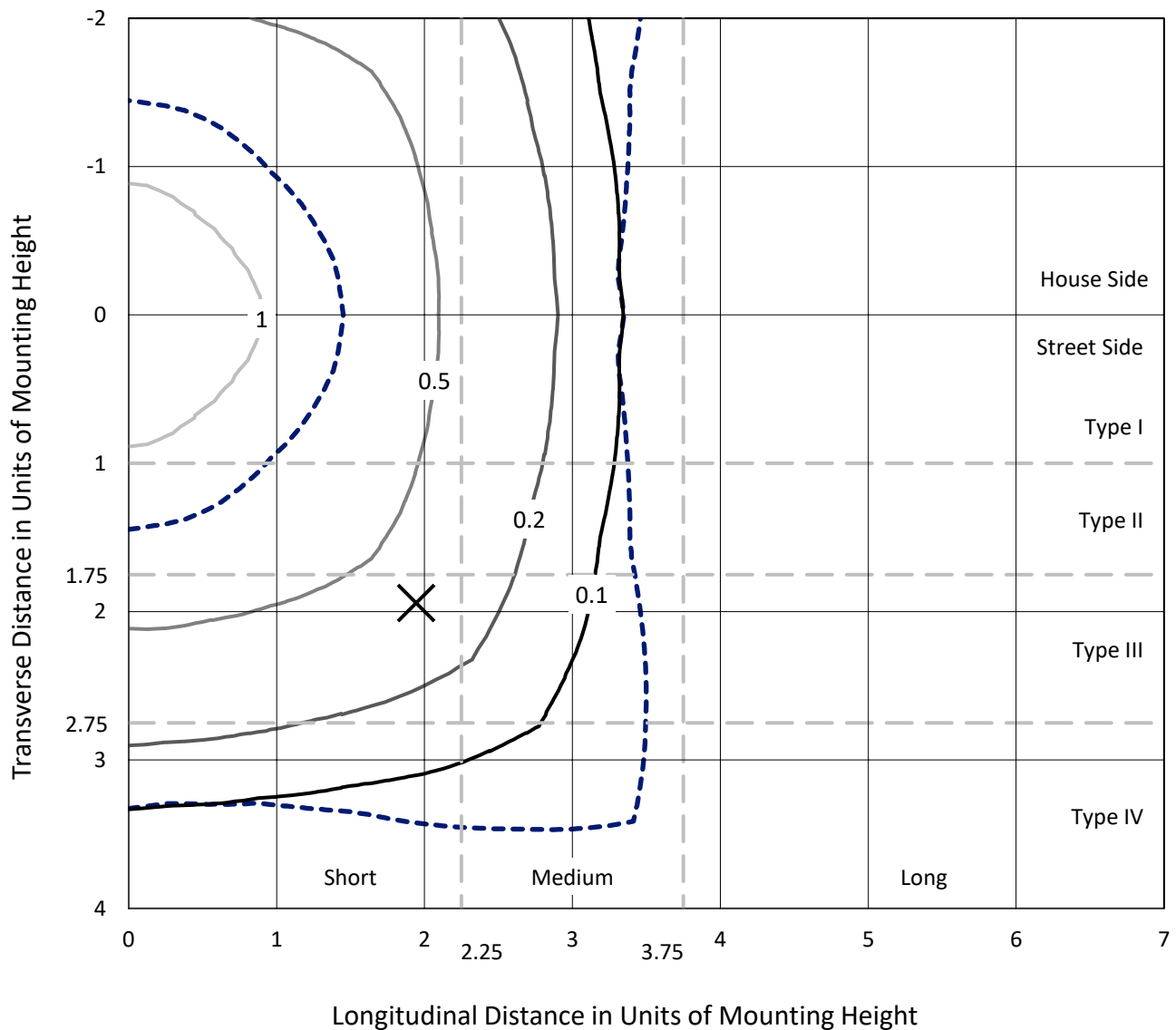
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

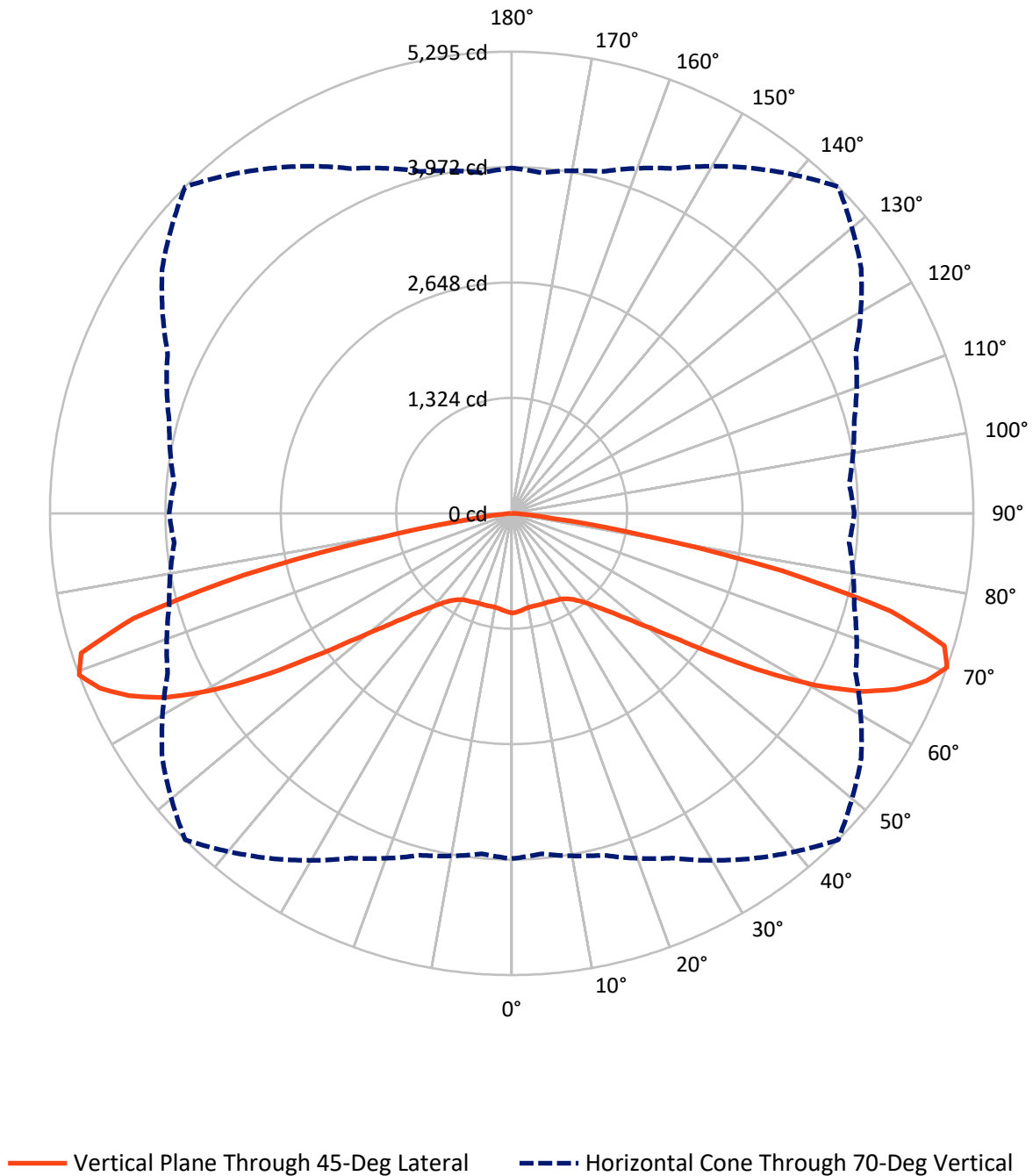
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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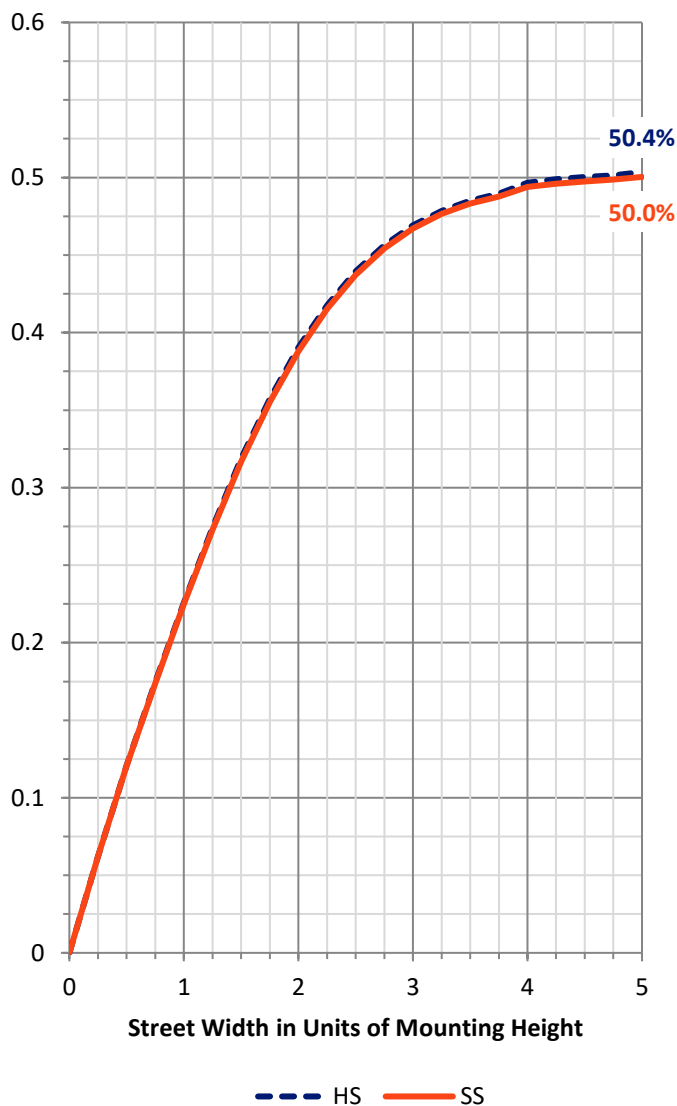
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6269.4	0.0	6269.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6269.4	0.0	6269.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	12538.8	0.0	12538.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.4	0.8
10°-20°	312.4	2.5
20°-30°	519.9	4.1
30°-40°	786.3	6.3
40°-50°	1306.6	10.4
50°-60°	2465.4	19.7
60°-70°	4163.0	33.2
70°-80°	2735.5	21.8
80°-90°	143.3	1.1
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°	12538.8	100.0
0°-180°	12538.8	100.0

Coefficient of Utilization



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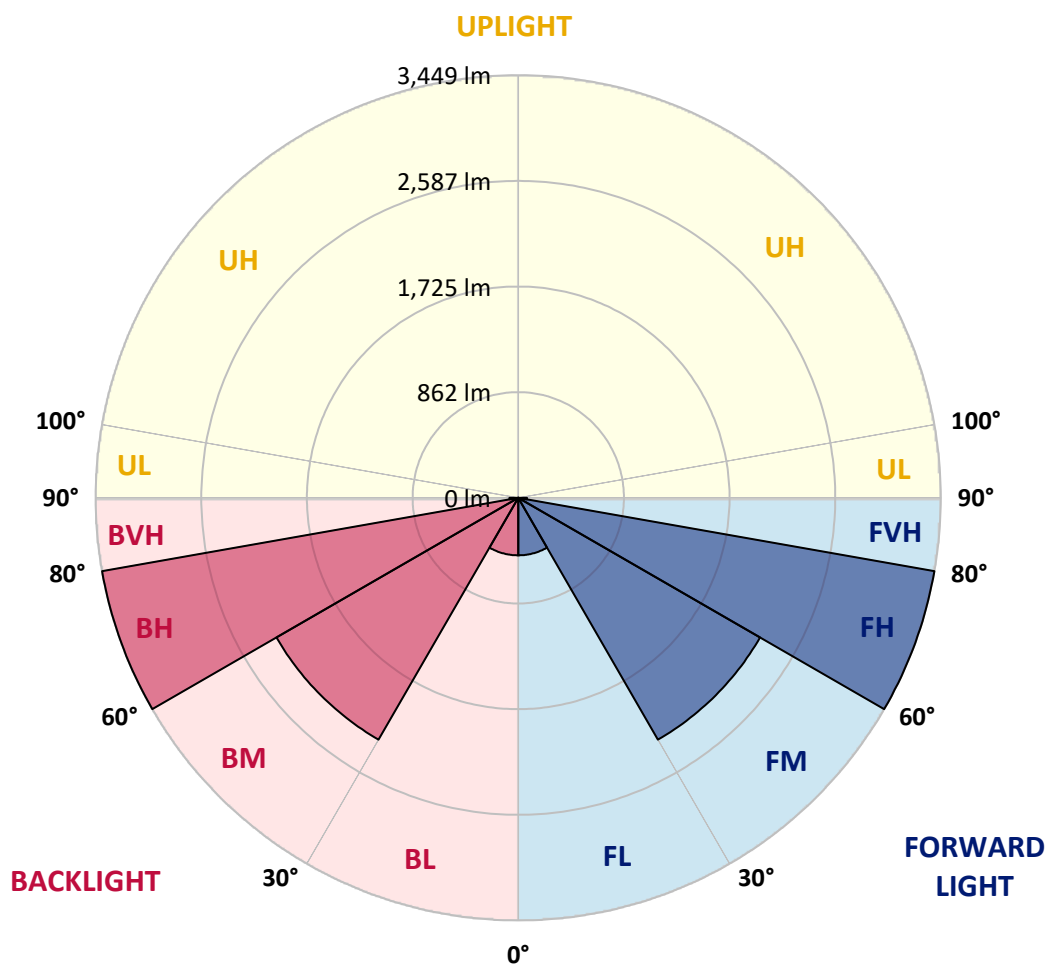
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	469.4	3.7			
FM	(30°-60°)	2279.1	18.2			
FH	(60°-80°)	3449.3	27.5			G2/5000
FVH	(80°-90°)	71.7	0.6			G1/100
BL	(0°-30°)	469.4	3.7	B1/500		
BM	(30°-60°)	2279.1	18.2	B2/2500		
BH	(60°-80°)	3449.3	27.5	B4/5000		G2/5000
BVH	(80°-90°)	71.7	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1143.8	1143.8	1143.8	1143.8	1143.8	1143.8	1143.8	1143.8	1143.8	1143.8	1143.8
2.5°	1136.6	1139.9	1138.6	1136.0	1136.0	1134.1	1136.0	1137.2	1139.2	1140.5	1139.9
5°	1121.7	1124.2	1123.6	1121.7	1122.3	1120.3	1121.7	1123.6	1124.9	1125.6	1125.6
7.5°	1108.6	1111.2	1109.9	1106.7	1106.7	1104.6	1105.4	1107.3	1109.3	1109.9	1109.9
10°	1105.4	1107.9	1104.0	1098.8	1096.9	1094.3	1094.9	1096.9	1100.7	1102.7	1102.7
12.5°	1106.7	1108.6	1104.6	1096.9	1094.9	1092.3	1092.3	1094.3	1099.5	1102.1	1102.7
15°	1110.6	1112.5	1106.7	1098.2	1096.2	1094.3	1093.6	1096.2	1102.1	1106.7	1107.3
17.5°	1117.8	1119.7	1110.6	1098.8	1096.2	1096.9	1096.2	1098.2	1107.3	1115.8	1115.8
20°	1124.2	1125.6	1113.1	1098.8	1096.2	1096.9	1096.2	1100.1	1111.8	1123.6	1124.2
22.5°	1126.2	1127.5	1115.8	1103.4	1101.5	1102.1	1101.5	1105.4	1116.4	1128.1	1128.1
25°	1126.9	1128.8	1119.7	1109.9	1113.1	1114.5	1113.1	1113.8	1122.3	1132.7	1132.1
27.5°	1136.6	1139.2	1130.8	1122.3	1124.2	1123.6	1125.6	1127.5	1134.1	1144.4	1141.8
30°	1156.8	1158.8	1151.6	1143.2	1141.8	1137.2	1143.2	1149.6	1156.8	1165.9	1164.0
32.5°	1190.0	1194.0	1184.9	1175.8	1169.8	1167.3	1171.8	1182.8	1192.7	1202.4	1198.5
35°	1245.5	1248.0	1239.6	1222.6	1212.3	1212.3	1216.2	1230.5	1246.1	1258.5	1254.0
37.5°	1323.7	1327.0	1311.9	1291.7	1276.1	1276.1	1281.4	1296.3	1319.8	1337.3	1330.9
40°	1418.8	1423.4	1404.5	1383.6	1368.7	1366.0	1372.6	1389.5	1411.6	1433.8	1426.6
42.5°	1533.5	1538.7	1514.0	1495.7	1484.0	1484.0	1487.3	1502.9	1523.1	1550.5	1548.6
45°	1680.2	1689.3	1655.4	1637.1	1626.1	1628.7	1630.7	1644.3	1662.6	1693.8	1692.6
47.5°	1854.8	1864.0	1828.1	1809.2	1807.3	1819.7	1811.8	1821.6	1831.4	1867.2	1856.8
50°	2053.0	2068.7	2043.8	2042.5	2046.4	2069.3	2051.0	2056.3	2045.2	2067.9	2054.3
52.5°	2295.4	2318.2	2313.6	2321.5	2365.2	2412.0	2370.3	2352.1	2310.4	2317.5	2293.4
55°	2589.4	2623.9	2630.4	2677.3	2776.4	2872.2	2783.6	2709.9	2621.2	2604.9	2579.5
57.5°	2923.7	2951.1	2982.3	3078.2	3263.2	3433.3	3263.2	3100.3	2960.8	2927.6	2904.1
60°	3283.5	3317.3	3347.3	3488.7	3763.8	4002.9	3758.6	3499.9	3315.4	3270.4	3231.3
62.5°	3669.9	3713.6	3734.5	3891.5	4212.1	4497.6	4216.7	3903.2	3698.6	3650.3	3611.3
65°	4040.8	4076.6	4100.1	4267.6	4573.9	4859.9	4594.8	4285.8	4075.3	4012.1	3980.8
67.5°	4213.5	4233.0	4290.3	4480.1	4803.3	5129.8	4858.0	4500.3	4264.9	4154.1	4155.5
70°	3960.6	3920.8	4059.0	4362.7	4830.6	5295.4	4893.2	4353.6	4065.6	3885.7	3928.6
72.5°	3060.5	2992.1	3231.9	3751.4	4517.8	5189.8	4549.2	3780.7	3381.2	3016.3	3106.8
75°	1665.2	1587.6	1918.7	2575.6	3602.8	4498.3	3685.6	2649.3	2136.4	1652.8	1760.3
77.5°	469.9	440.5	707.8	1246.1	2167.1	3158.3	2250.4	1273.5	839.5	497.9	553.3
80°	144.0	139.5	189.0	375.4	920.2	1512.7	884.4	380.0	240.5	151.9	160.3
82.5°	85.4	78.2	93.9	136.8	234.6	475.1	228.1	142.7	114.7	76.9	83.4
85°	48.9	45.6	55.4	66.5	78.8	101.1	65.8	67.8	61.3	41.1	43.0
87.5°	20.2	18.2	21.5	20.8	18.2	23.5	17.6	20.8	24.8	16.3	15.0
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)