

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: P960986

Luminaire Tested: **NAV-SB1D-827-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960986
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-SB1D-827-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9507.9 lumens
Efficiency: N/A
Efficacy: 119.4 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

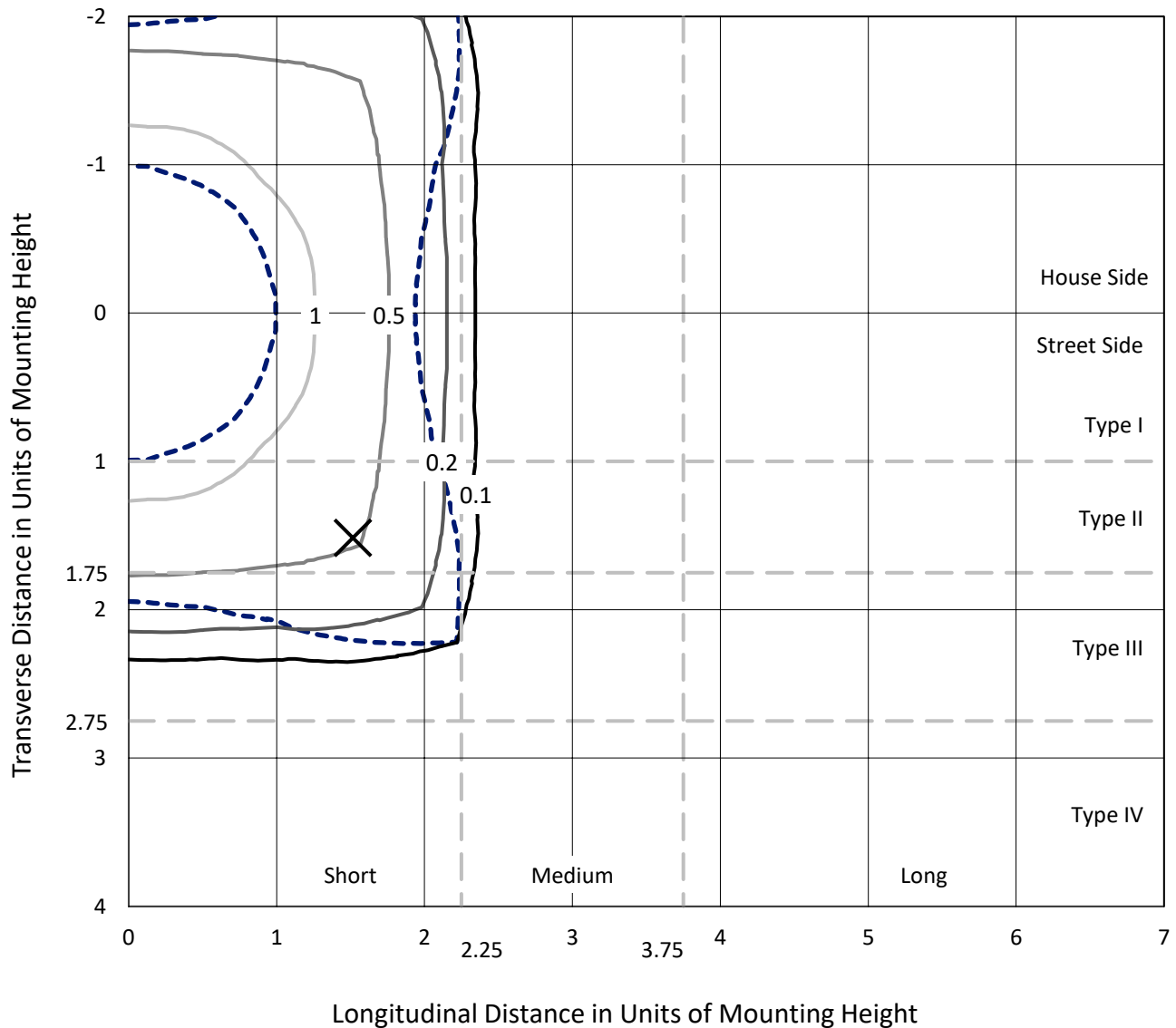
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

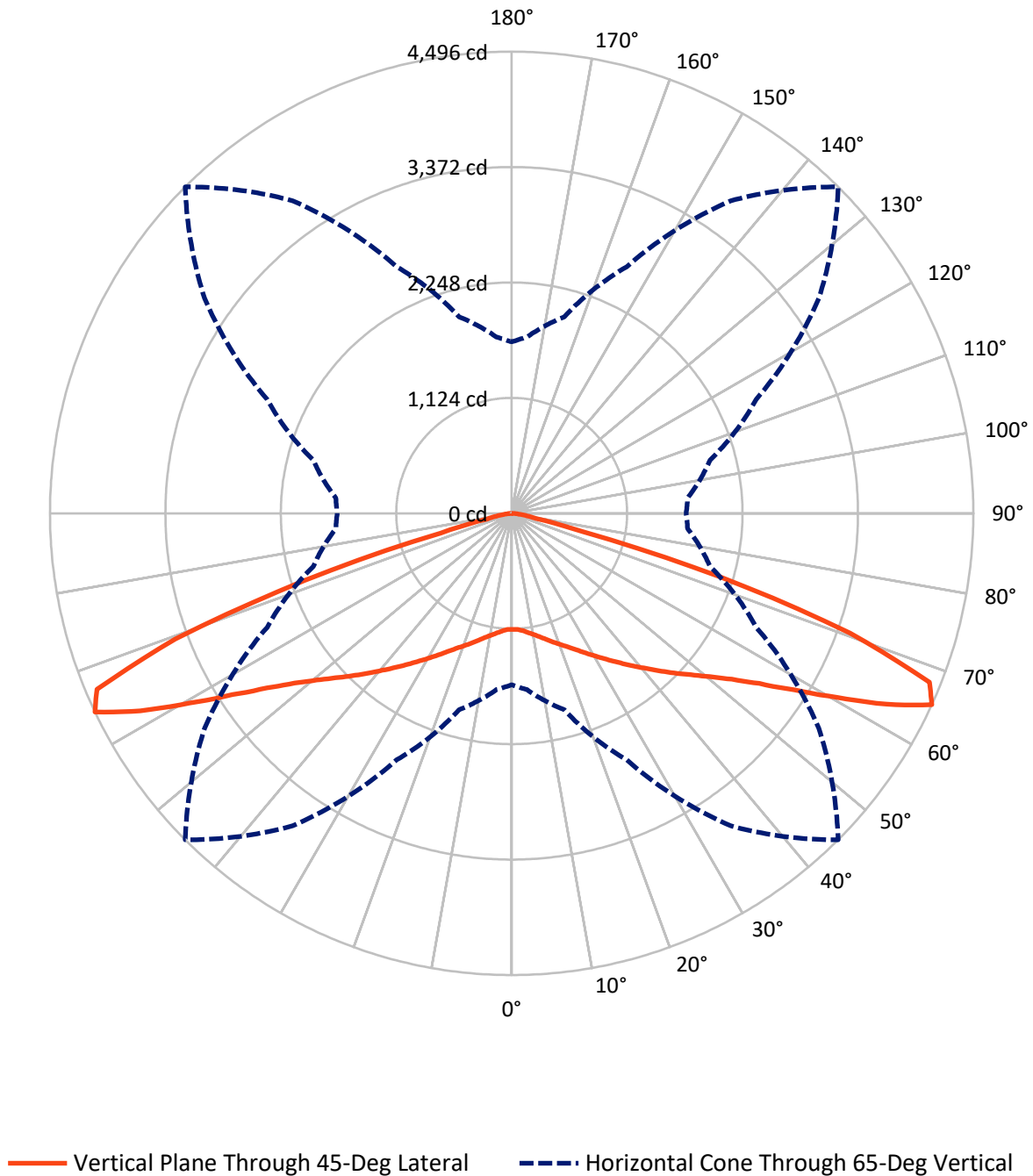
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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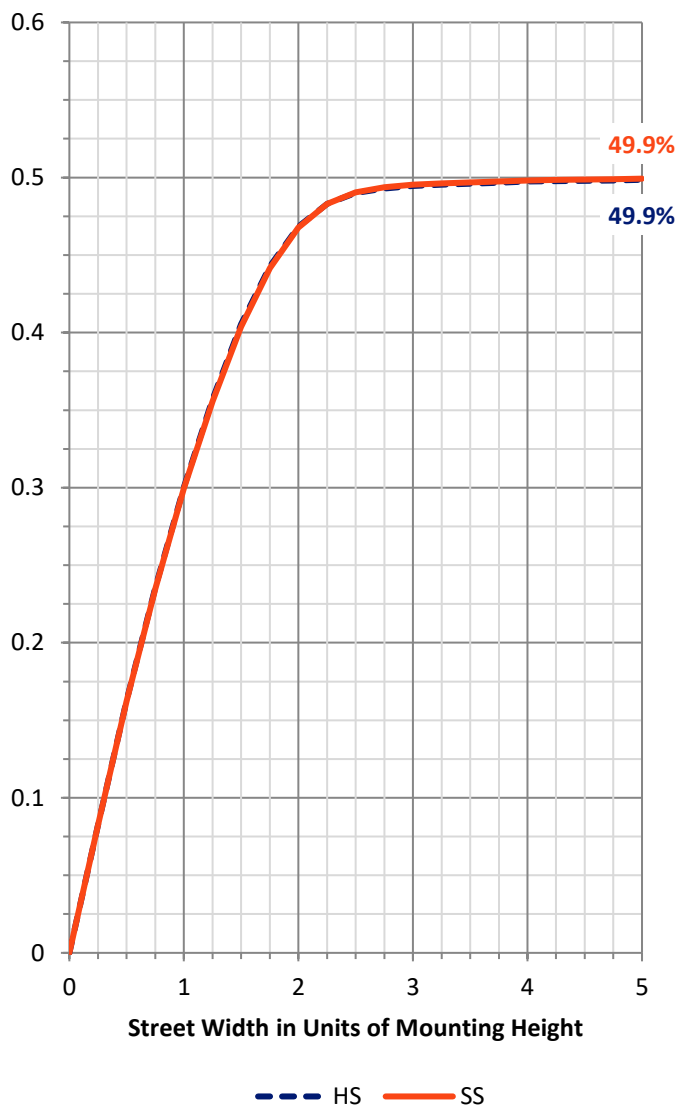
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4753.9	0.0	4753.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4753.9	0.0	4753.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	9507.9	0.0	9507.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.7	1.2
10°-20°	364.4	3.8
20°-30°	688.0	7.2
30°-40°	1126.6	11.8
40°-50°	1746.8	18.4
50°-60°	2580.4	27.1
60°-70°	2456.3	25.8
70°-80°	396.4	4.2
80°-90°	37.4	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°	9507.9	100.0
0°-180°	9507.9	100.0

Coefficient of Utilization



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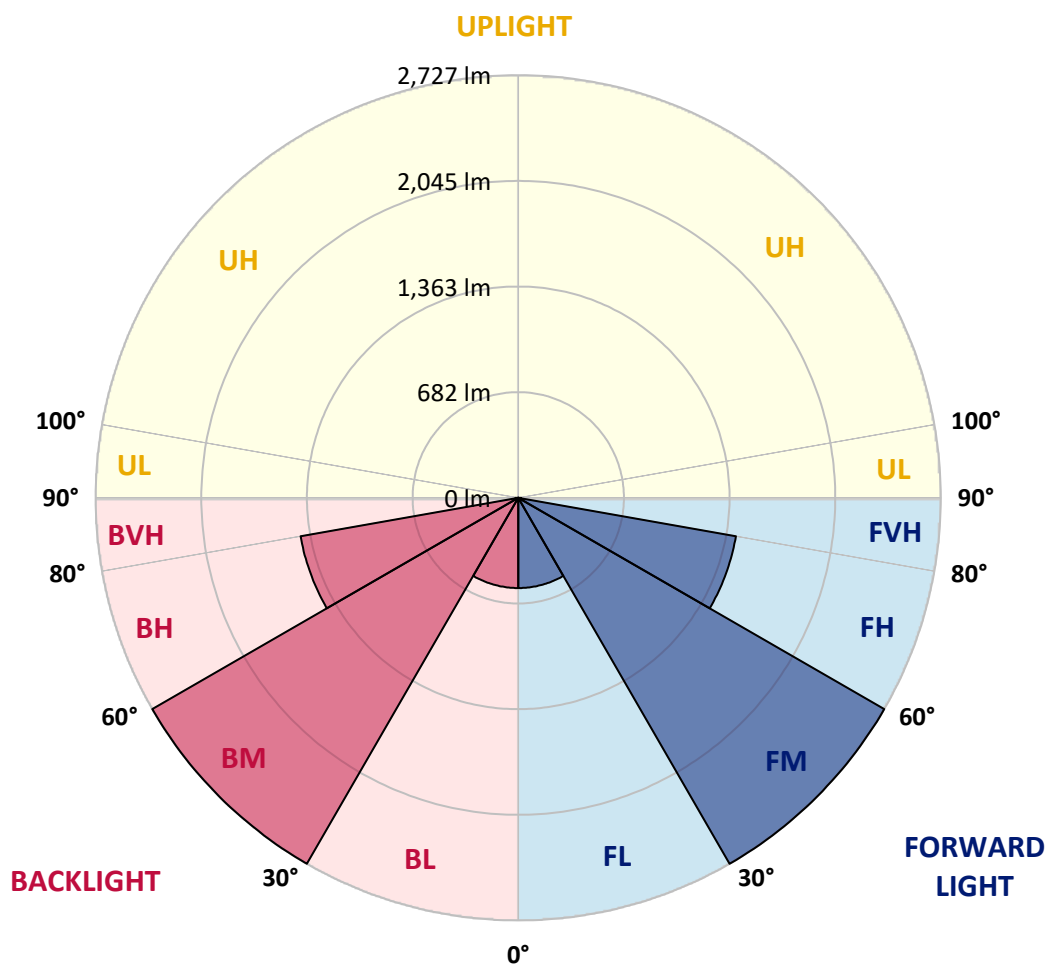
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	582.0	6.1			
FM	(30°-60°)	2726.9	28.7			
FH	(60°-80°)	1426.3	15.0			G1/1800
FVH	(80°-90°)	18.7	0.2			G1/100
BL	(0°-30°)	582.0	6.1	B2/1000		
BM	(30°-60°)	2726.9	28.7	B3/5000		
BH	(60°-80°)	1426.3	15.0	B3/2500		G1/1800
BVH	(80°-90°)	18.7	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°	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5
2.5°	1139.2	1135.4	1138.3	1135.8	1134.0	1132.0	1132.9	1136.3	1137.8	1138.3	1138.3
5°	1154.5	1151.1	1152.5	1152.5	1149.2	1148.2	1148.7	1151.1	1153.9	1153.9	1153.9
7.5°	1179.3	1175.9	1179.3	1177.3	1174.4	1173.5	1173.0	1175.0	1179.3	1179.3	1177.8
10°	1209.3	1205.5	1207.3	1206.4	1203.0	1201.7	1201.2	1204.1	1207.9	1207.3	1206.4
12.5°	1242.2	1237.9	1240.2	1237.5	1236.5	1235.0	1235.0	1234.6	1237.0	1235.0	1236.0
15°	1278.9	1276.1	1277.0	1275.1	1276.5	1275.6	1271.8	1269.9	1270.8	1267.9	1268.4
17.5°	1322.4	1315.7	1319.0	1318.0	1318.0	1320.0	1313.7	1311.4	1313.3	1310.5	1312.8
20°	1372.5	1365.7	1367.1	1365.3	1362.9	1364.8	1357.2	1359.0	1360.5	1358.6	1362.9
22.5°	1427.3	1418.7	1418.2	1419.2	1414.0	1414.4	1409.2	1414.0	1416.8	1411.5	1416.8
25°	1483.6	1474.6	1480.7	1478.4	1471.7	1473.1	1469.2	1474.1	1476.4	1469.7	1477.4
27.5°	1543.2	1537.0	1542.7	1544.2	1536.1	1541.8	1536.1	1540.4	1542.7	1532.7	1540.4
30°	1612.8	1606.7	1611.9	1615.7	1606.2	1615.3	1610.5	1613.4	1613.9	1601.9	1609.0
32.5°	1688.7	1679.2	1692.6	1694.4	1684.0	1694.9	1688.7	1692.6	1694.9	1678.7	1689.7
35°	1781.2	1769.4	1784.6	1782.2	1773.1	1782.2	1776.5	1782.2	1787.9	1768.4	1780.3
37.5°	1881.0	1868.6	1884.8	1880.5	1871.9	1878.1	1874.7	1878.6	1887.6	1866.6	1879.5
40°	1990.7	1975.4	1997.3	1989.7	1981.6	1980.7	1982.6	1984.9	1996.9	1973.5	1981.1
42.5°	2108.0	2091.8	2124.7	2112.8	2101.4	2093.8	2099.9	2104.7	2116.1	2089.9	2103.7
45°	2242.1	2223.4	2266.4	2252.1	2234.0	2218.2	2228.2	2235.4	2252.1	2220.7	2236.9
47.5°	2390.0	2369.0	2414.8	2410.5	2380.9	2346.5	2369.5	2390.0	2402.4	2364.2	2377.1
50°	2534.5	2518.3	2578.4	2583.6	2547.4	2499.2	2531.1	2562.2	2565.5	2515.5	2521.6
52.5°	2670.0	2653.7	2741.1	2774.0	2741.6	2684.3	2718.2	2749.7	2724.3	2659.5	2661.4
55°	2778.3	2764.9	2876.0	2961.0	2972.0	2924.7	2944.7	2943.8	2860.8	2761.1	2764.4
57.5°	2804.5	2802.6	2942.9	3122.7	3237.2	3242.9	3203.3	3102.2	2923.3	2789.2	2780.6
60°	2685.3	2697.2	2889.9	3207.1	3512.5	3639.4	3468.1	3179.4	2852.2	2666.1	2644.2
62.5°	2328.4	2360.0	2592.2	3104.1	3734.7	4095.4	3680.4	3062.1	2560.2	2317.4	2303.2
65°	1668.7	1723.5	1980.2	2649.0	3714.7	4496.1	3649.8	2627.5	1999.3	1719.2	1698.7
67.5°	757.1	812.8	1030.8	1813.7	3229.1	4387.3	3221.5	1832.8	1082.4	815.7	803.8
70°	274.3	283.8	353.9	726.0	2063.6	3495.8	2151.9	731.3	376.4	302.5	298.6
72.5°	166.0	167.5	182.2	259.9	717.0	2122.4	747.5	268.5	186.0	165.0	167.9
75°	105.5	104.4	129.8	158.9	254.3	716.1	266.7	158.9	129.3	117.9	118.8
77.5°	75.8	78.2	93.1	118.8	160.3	242.8	157.4	113.6	93.1	76.4	77.8
80°	56.8	58.2	67.8	92.6	112.5	151.2	100.1	83.9	70.1	47.7	49.1
82.5°	41.0	41.0	44.4	67.2	68.7	81.6	54.4	59.1	46.2	33.8	33.8
85°	24.3	23.9	27.7	40.1	35.8	30.0	24.8	36.3	29.1	21.0	20.5
87.5°	8.6	9.0	8.6	11.5	9.5	8.1	7.6	10.0	8.1	7.2	6.7
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)