

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: P960460

Luminaire Tested: **NAV-SB1C-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960460
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-SB1C-827-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

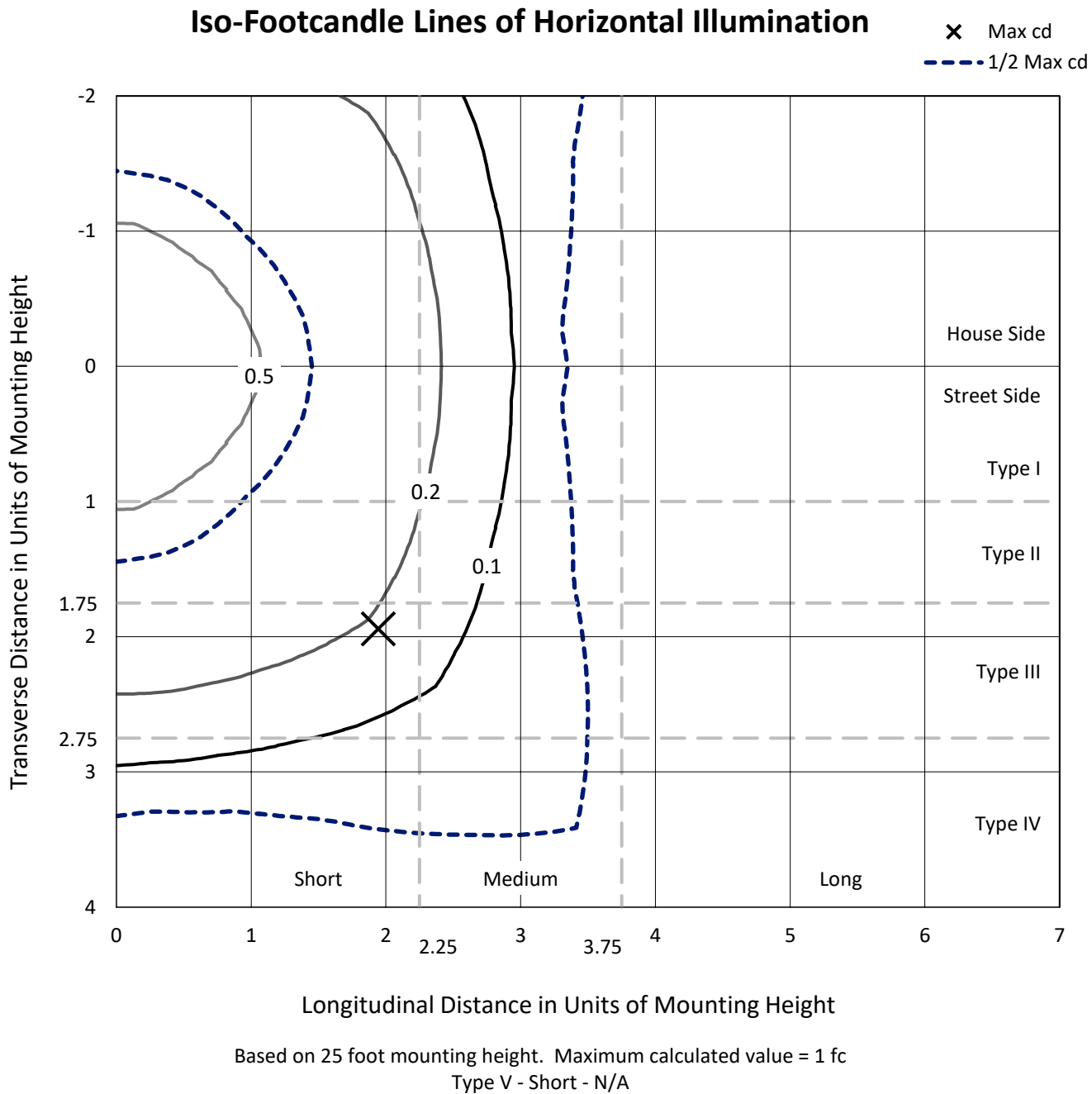
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6753.7 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

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

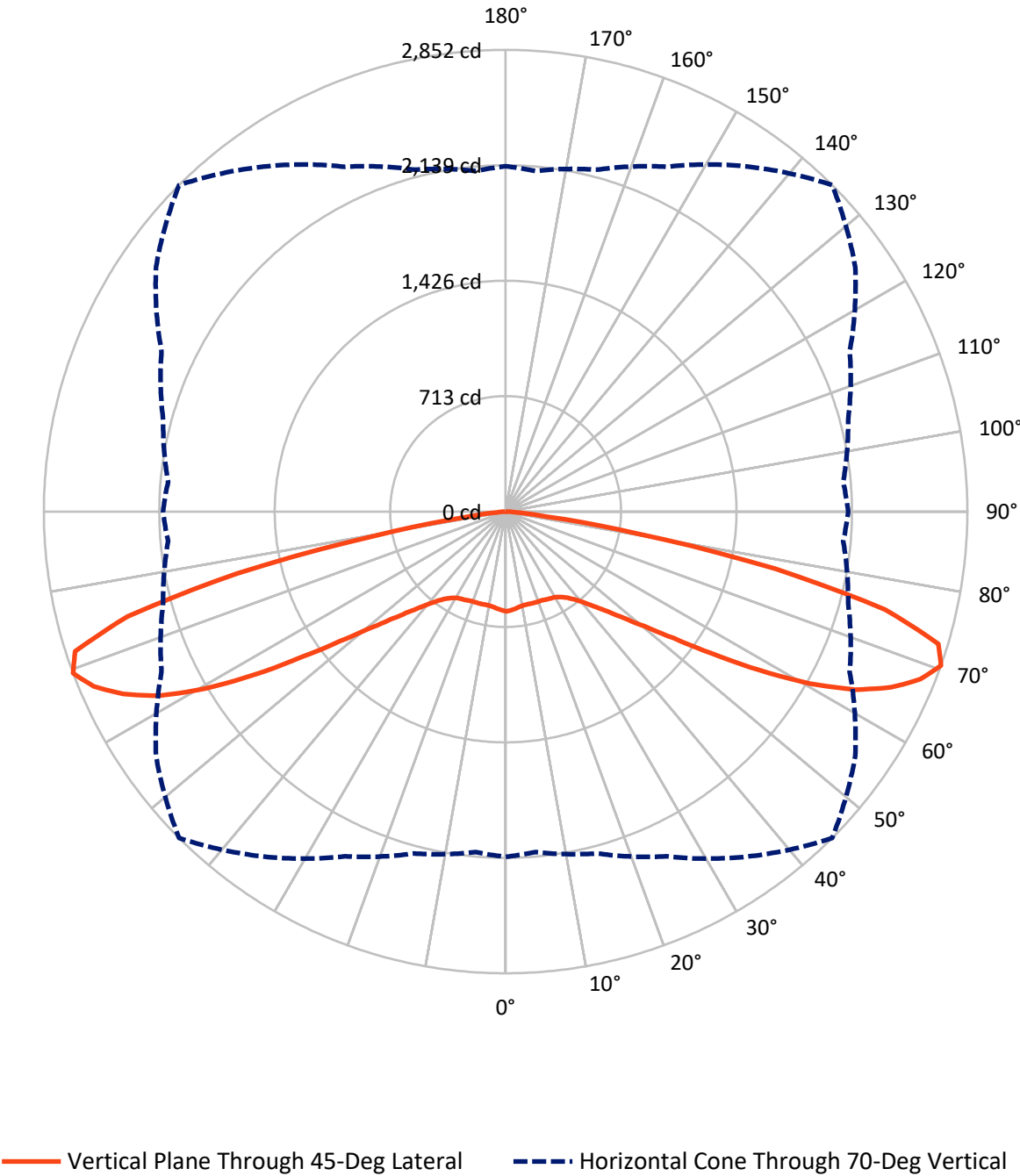


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Luminous Intensity Polar Plot



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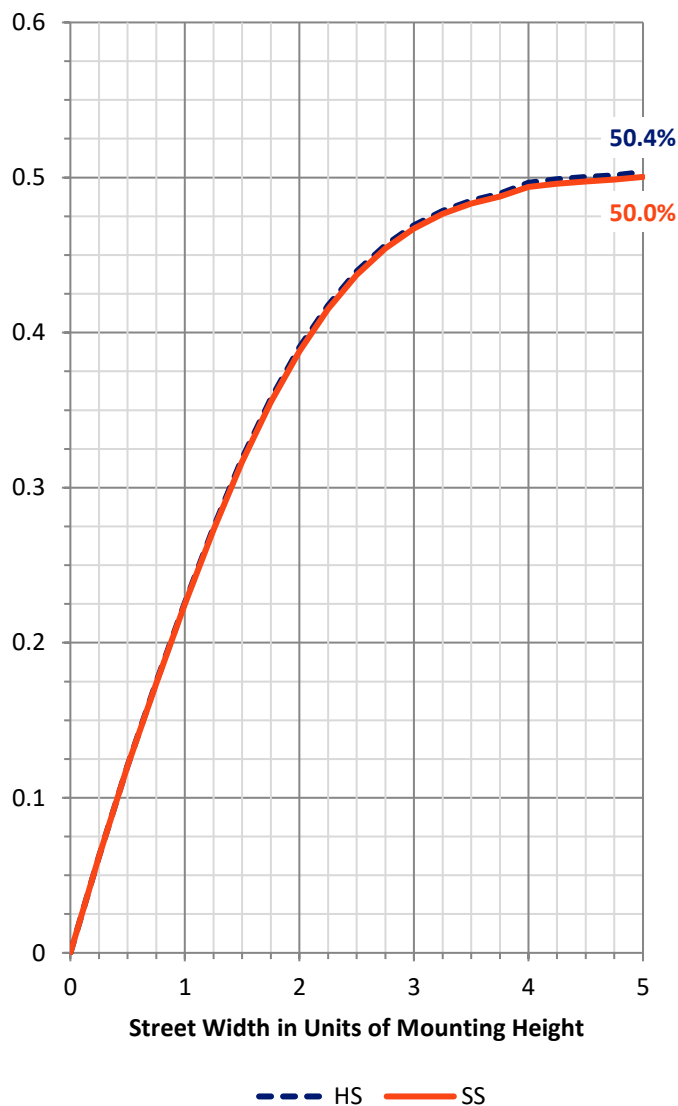
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3376.9	0.0	3376.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3376.9	0.0	3376.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	6753.7	0.0	6753.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	0.8
10°-20°	168.3	2.5
20°-30°	280.0	4.1
30°-40°	423.5	6.3
40°-50°	703.8	10.4
50°-60°	1328.0	19.7
60°-70°	2242.3	33.2
70°-80°	1473.4	21.8
80°-90°	77.2	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°	6753.7	100.0
0°-180°	6753.7	100.0

Coefficient of Utilization



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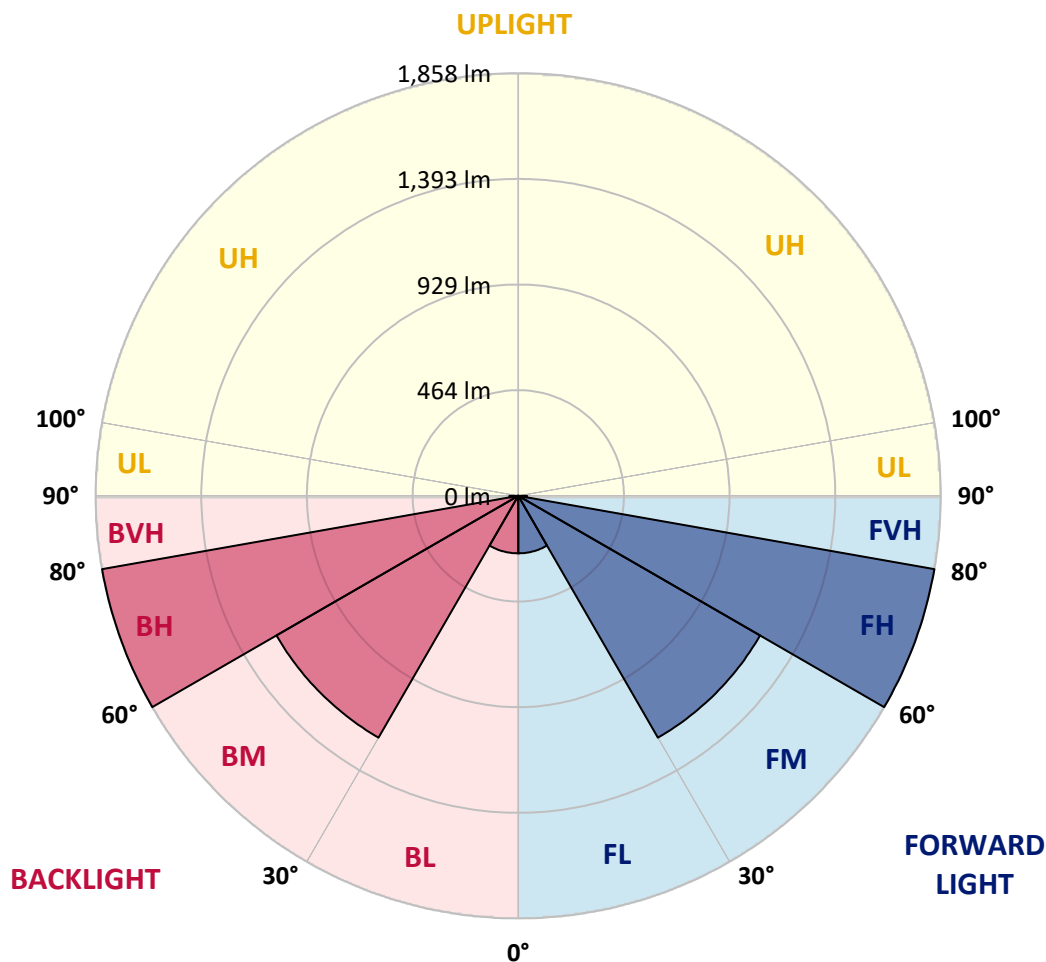
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	252.8	3.7			
FM	(30°-60°)	1227.6	18.2			
FH	(60°-80°)	1857.9	27.5			G2/5000
FVH	(80°-90°)	38.6	0.6			G1/100
BL	(0°-30°)	252.8	3.7	B1/500		
BM	(30°-60°)	1227.6	18.2	B2/2500		
BH	(60°-80°)	1857.9	27.5	B3/2500		G2/5000
BVH	(80°-90°)	38.6	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	616.0	616.0	616.0	616.0	616.0	616.0	616.0	616.0	616.0	616.0	616.0
2.5°	612.2	614.0	613.3	611.8	611.8	610.8	611.8	612.5	613.7	614.3	614.0
5°	604.1	605.6	605.2	604.1	604.4	603.4	604.1	605.2	605.9	606.3	606.3
7.5°	597.2	598.5	597.8	596.0	596.0	595.0	595.3	596.4	597.5	597.8	597.8
10°	595.3	596.8	594.7	591.8	590.8	589.4	589.8	590.8	592.9	594.0	594.0
12.5°	596.0	597.2	595.0	590.8	589.8	588.3	588.3	589.4	592.2	593.6	594.0
15°	598.2	599.2	596.0	591.5	590.4	589.4	589.1	590.4	593.6	596.0	596.4
17.5°	602.1	603.1	598.2	591.8	590.4	590.8	590.4	591.5	596.4	601.0	601.0
20°	605.6	606.3	599.6	591.8	590.4	590.8	590.4	592.6	598.9	605.2	605.6
22.5°	606.6	607.3	601.0	594.3	593.3	593.6	593.3	595.3	601.4	607.6	607.6
25°	606.9	608.0	603.1	597.8	599.6	600.2	599.6	599.9	604.4	610.1	609.8
27.5°	612.2	613.7	609.1	604.4	605.6	605.2	606.3	607.3	610.8	616.4	615.0
30°	623.1	624.1	620.3	615.7	615.0	612.5	615.7	619.2	623.1	628.0	627.0
32.5°	641.0	643.1	638.2	633.2	630.1	628.7	631.2	637.1	642.4	647.7	645.5
35°	670.9	672.2	667.7	658.6	652.9	652.9	655.1	662.8	671.2	677.8	675.4
37.5°	713.0	714.7	706.6	695.8	687.4	687.4	690.1	698.2	710.8	720.4	716.8
40°	764.2	766.7	756.4	745.3	737.2	735.7	739.3	748.5	760.3	772.3	768.4
42.5°	826.0	828.8	815.5	805.6	799.3	799.3	801.0	809.5	820.4	835.2	834.0
45°	905.0	909.9	891.6	881.8	875.9	877.3	878.3	885.7	895.5	912.4	911.6
47.5°	999.1	1004.0	984.7	974.5	973.4	980.1	975.9	981.1	986.5	1005.7	1000.1
50°	1105.8	1114.2	1100.8	1100.1	1102.3	1114.6	1104.7	1107.5	1101.6	1113.9	1106.5
52.5°	1236.4	1248.7	1246.2	1250.4	1274.0	1299.2	1276.7	1266.9	1244.5	1248.3	1235.3
55°	1394.7	1413.3	1416.8	1442.1	1495.5	1547.0	1499.3	1459.6	1411.8	1403.1	1389.4
57.5°	1574.8	1589.5	1606.4	1657.9	1757.7	1849.3	1757.7	1669.9	1594.8	1576.9	1564.3
60°	1768.5	1786.8	1803.0	1879.1	2027.2	2156.1	2024.5	1885.1	1785.8	1761.6	1740.4
62.5°	1976.7	2000.2	2011.5	2096.0	2268.7	2422.5	2271.2	2102.4	1992.2	1966.2	1945.1
65°	2176.5	2195.8	2208.4	2298.6	2463.6	2617.7	2474.9	2308.4	2195.0	2161.0	2144.2
67.5°	2269.5	2280.0	2310.9	2413.1	2587.2	2763.0	2616.6	2423.9	2297.2	2237.6	2238.2
70°	2133.2	2111.8	2186.3	2349.8	2601.9	2852.2	2635.6	2345.0	2189.8	2092.9	2116.1
72.5°	1648.5	1611.6	1740.9	2020.6	2433.5	2795.4	2450.3	2036.4	1821.2	1624.6	1673.4
75°	896.9	855.2	1033.5	1387.3	1940.5	2422.9	1985.1	1427.0	1150.7	890.2	948.1
77.5°	253.1	237.3	381.2	671.2	1167.2	1701.1	1212.2	685.9	452.1	268.2	298.1
80°	77.6	75.1	101.8	202.2	495.7	814.8	476.3	204.7	129.6	81.8	86.3
82.5°	46.0	42.1	50.5	73.7	126.4	255.9	122.9	76.9	61.8	41.4	44.9
85°	26.3	24.6	29.8	35.8	42.4	54.4	35.5	36.5	33.0	22.1	23.2
87.5°	10.9	9.8	11.6	11.3	9.8	12.6	9.4	11.3	13.3	8.8	8.1
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)