

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: P962537

Luminaire Tested: **NAV-SB2C-760-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962537
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-SB2C-760-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16427.7 lumens
Efficiency: N/A
Efficacy: 162.8 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): 100.9
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



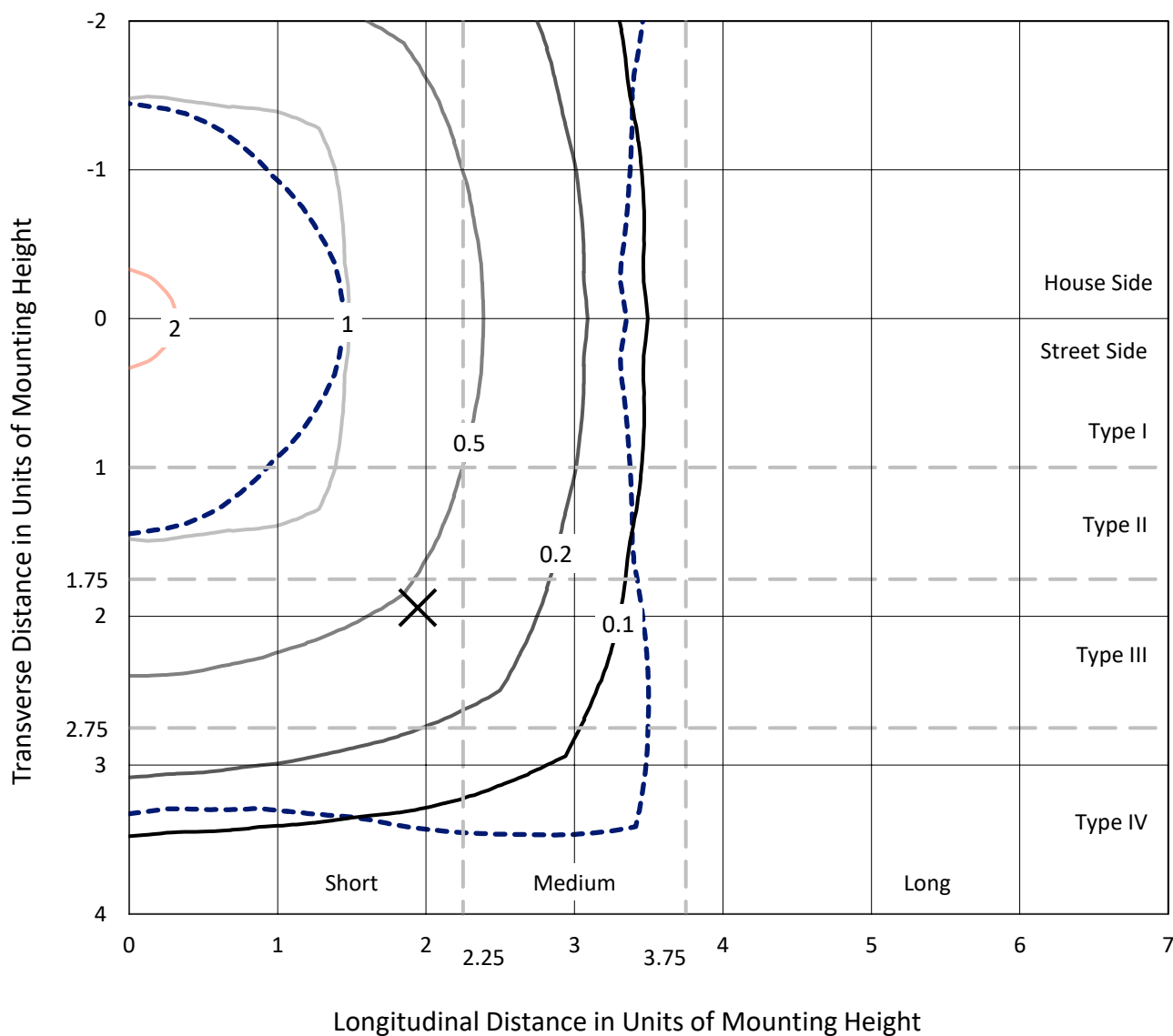
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

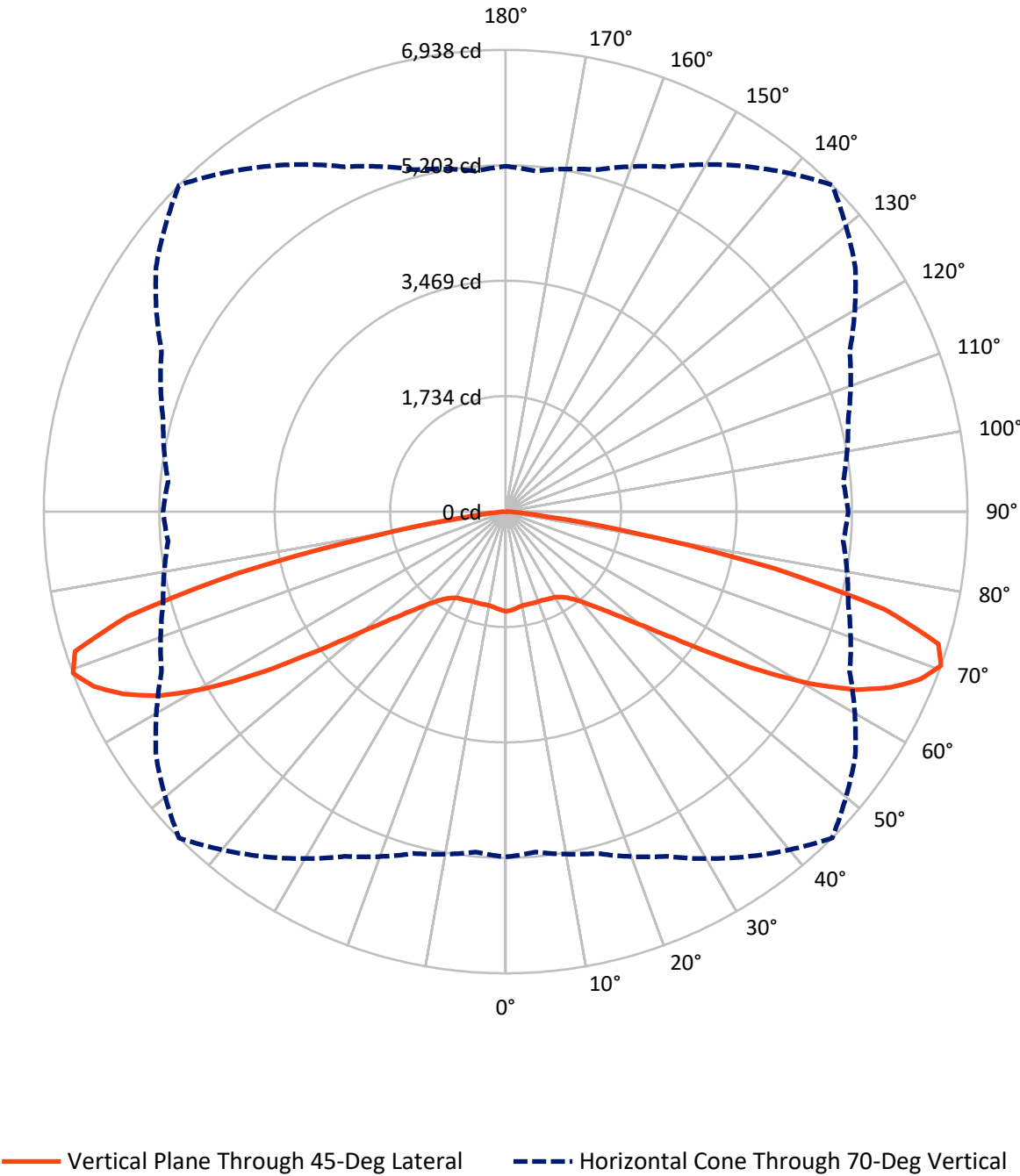


Based on 25 foot mounting height. Maximum calculated value = 2.4 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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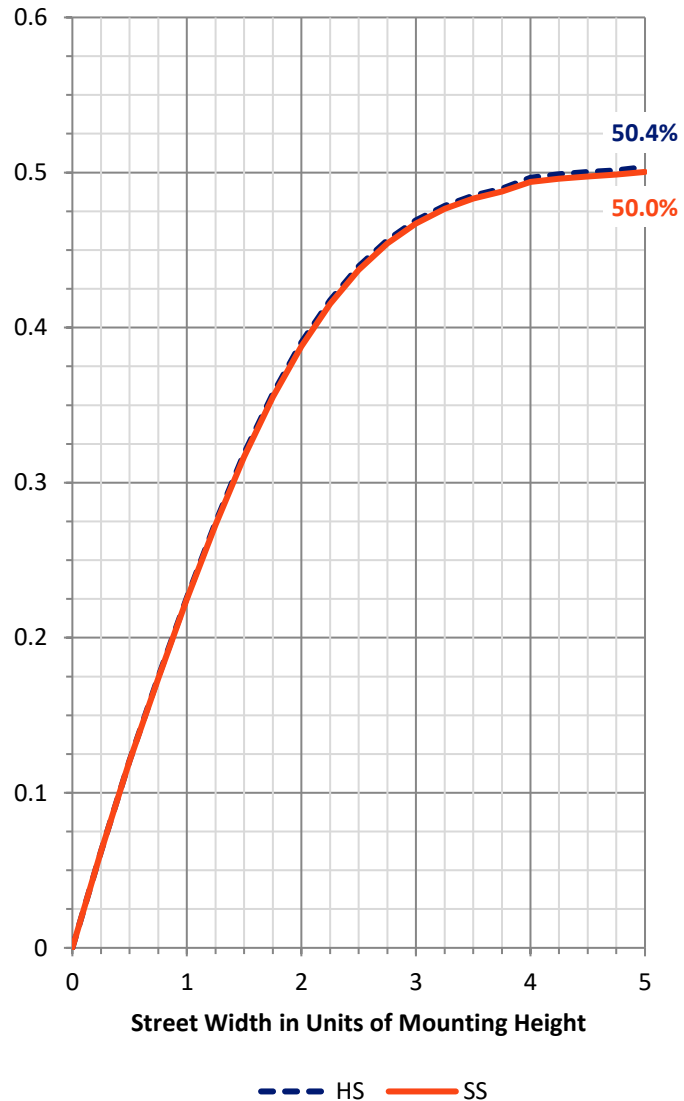
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8213.9	0.0	8213.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8213.9	0.0	8213.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	16427.7	0.0	16427.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.4	0.8
10°-20°	409.3	2.5
20°-30°	681.2	4.1
30°-40°	1030.1	6.3
40°-50°	1711.8	10.4
50°-60°	3230.1	19.7
60°-70°	5454.1	33.2
70°-80°	3583.9	21.8
80°-90°	187.8	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°	16427.7	100.0
0°-180°	16427.7	100.0

Coefficient of Utilization



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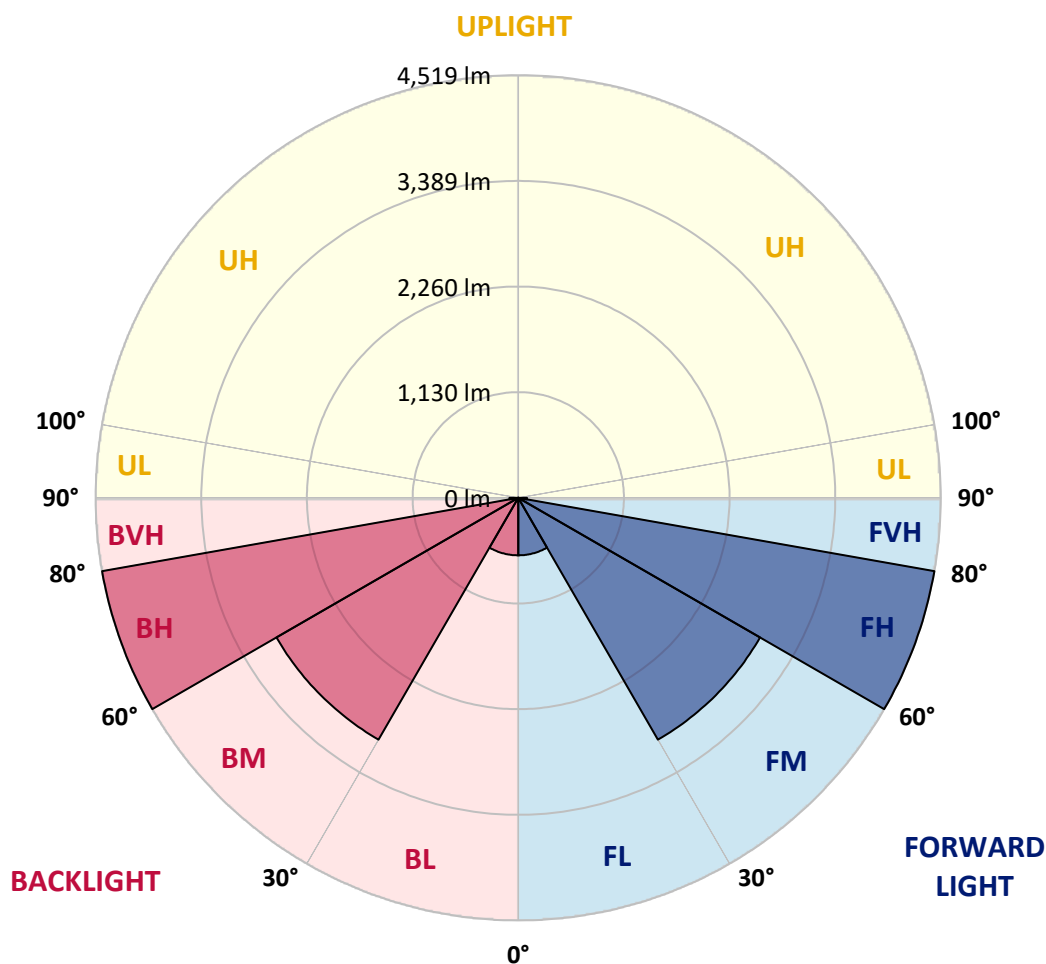
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	614.9	3.7			
FM	(30°-60°)	2986.0	18.2			
FH	(60°-80°)	4519.0	27.5			G2/5000
FVH	(80°-90°)	93.9	0.6			G1/100
BL	(0°-30°)	614.9	3.7	B2/1000		
BM	(30°-60°)	2986.0	18.2	B3/5000		
BH	(60°-80°)	4519.0	27.5	B4/5000		G2/5000
BVH	(80°-90°)	93.9	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°	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6
2.5°	1489.1	1493.4	1491.7	1488.3	1488.3	1485.7	1488.3	1490.0	1492.6	1494.2	1493.4
5°	1469.5	1472.9	1472.1	1469.5	1470.4	1467.8	1469.5	1472.1	1473.7	1474.7	1474.7
7.5°	1452.4	1455.8	1454.2	1449.9	1449.9	1447.3	1448.1	1450.7	1453.2	1454.2	1454.2
10°	1448.1	1451.6	1446.5	1439.6	1437.0	1433.7	1434.5	1437.0	1442.2	1444.7	1444.7
12.5°	1449.9	1452.4	1447.3	1437.0	1434.5	1431.1	1431.1	1433.7	1440.4	1443.9	1444.7
15°	1455.0	1457.6	1449.9	1438.8	1436.2	1433.7	1432.7	1436.2	1443.9	1449.9	1450.7
17.5°	1464.4	1467.0	1455.0	1439.6	1436.2	1437.0	1436.2	1438.8	1450.7	1461.9	1461.9
20°	1472.9	1474.7	1458.4	1439.6	1436.2	1437.0	1436.2	1441.4	1456.7	1472.1	1472.9
22.5°	1475.5	1477.2	1461.9	1445.6	1443.0	1443.9	1443.0	1448.1	1462.7	1478.0	1478.0
25°	1476.3	1478.9	1467.0	1454.2	1458.4	1460.1	1458.4	1459.3	1470.4	1484.0	1483.2
27.5°	1489.1	1492.6	1481.4	1470.4	1472.9	1472.1	1474.7	1477.2	1485.7	1499.4	1496.0
30°	1515.6	1518.1	1508.8	1497.7	1496.0	1490.0	1497.7	1506.2	1515.6	1527.6	1525.0
32.5°	1559.1	1564.3	1552.4	1540.4	1532.7	1529.3	1535.2	1549.8	1562.6	1575.4	1570.3
35°	1631.7	1635.2	1624.0	1601.9	1588.2	1588.2	1593.4	1612.1	1632.6	1648.8	1642.9
37.5°	1734.2	1738.5	1718.8	1692.4	1671.9	1671.9	1678.7	1698.3	1729.1	1752.1	1743.6
40°	1858.8	1864.9	1840.1	1812.7	1793.1	1789.8	1798.3	1820.4	1849.5	1878.5	1869.1
42.5°	2009.1	2016.0	1983.6	1959.6	1944.2	1944.2	1948.5	1969.0	1995.5	2031.3	2028.8
45°	2201.3	2213.2	2168.8	2144.9	2130.4	2133.8	2136.4	2154.3	2178.2	2219.2	2217.5
47.5°	2430.1	2442.1	2395.1	2370.3	2367.8	2383.9	2373.8	2386.5	2399.3	2446.4	2432.6
50°	2689.7	2710.2	2677.7	2676.0	2681.1	2711.0	2687.1	2693.9	2679.5	2709.3	2691.3
52.5°	3007.4	3037.2	3031.2	3041.5	3098.7	3160.2	3105.5	3081.6	3026.9	3036.4	3004.8
55°	3392.4	3437.6	3446.2	3507.7	3637.5	3763.0	3646.8	3550.4	3434.3	3412.9	3379.6
57.5°	3830.4	3866.3	3907.3	4032.8	4275.3	4498.2	4275.3	4061.9	3879.1	3835.6	3804.8
60°	4301.8	4346.2	4385.5	4570.8	4931.1	5244.4	4924.2	4585.2	4343.6	4284.7	4233.5
62.5°	4808.1	4865.4	4892.6	5098.5	5518.5	5892.5	5524.5	5113.8	4845.7	4782.5	4731.3
65°	5293.9	5341.0	5371.7	5591.1	5992.5	6367.3	6019.7	5615.1	5339.2	5256.4	5215.4
67.5°	5520.2	5545.9	5621.0	5869.5	6293.0	6720.8	6364.7	5895.9	5587.7	5442.5	5444.3
70°	5189.0	5136.9	5317.9	5715.8	6328.9	6937.6	6410.9	5703.8	5326.4	5090.8	5147.1
72.5°	4009.8	3920.1	4234.3	4914.9	5919.0	6799.3	5960.0	4953.3	4429.8	3951.7	4070.4
75°	2181.6	2080.0	2513.8	3374.5	4720.1	5893.3	4828.6	3471.0	2799.0	2165.4	2306.2
77.5°	615.6	577.2	927.3	1632.6	2839.1	4137.8	2948.4	1668.5	1099.8	652.3	725.0
80°	188.7	182.8	247.6	491.8	1205.7	1981.8	1158.7	497.8	315.1	199.0	210.0
82.5°	111.8	102.5	123.0	179.3	307.4	622.5	298.9	187.0	150.3	100.8	109.3
85°	64.1	59.8	72.6	87.1	103.3	132.3	86.2	88.8	80.3	53.8	56.4
87.5°	26.4	23.9	28.2	27.4	23.9	30.7	23.1	27.4	32.5	21.3	19.7
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)