

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: P964025

Luminaire Tested: **NAV-SB3B-735-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964025
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-SB3B-735-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17517.2 lumens
Efficiency: N/A
Efficacy: 160.4 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): 109.2
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



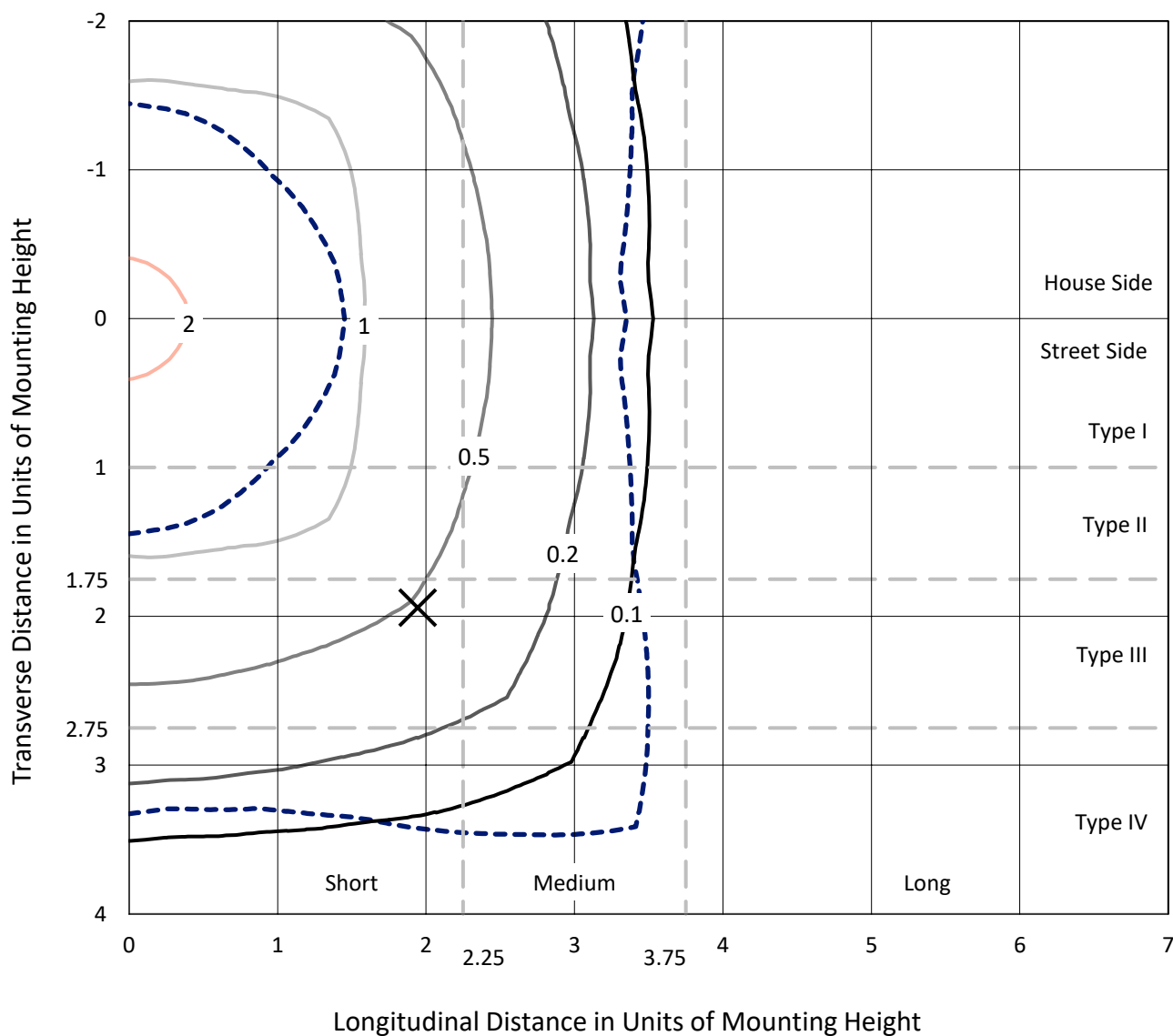
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

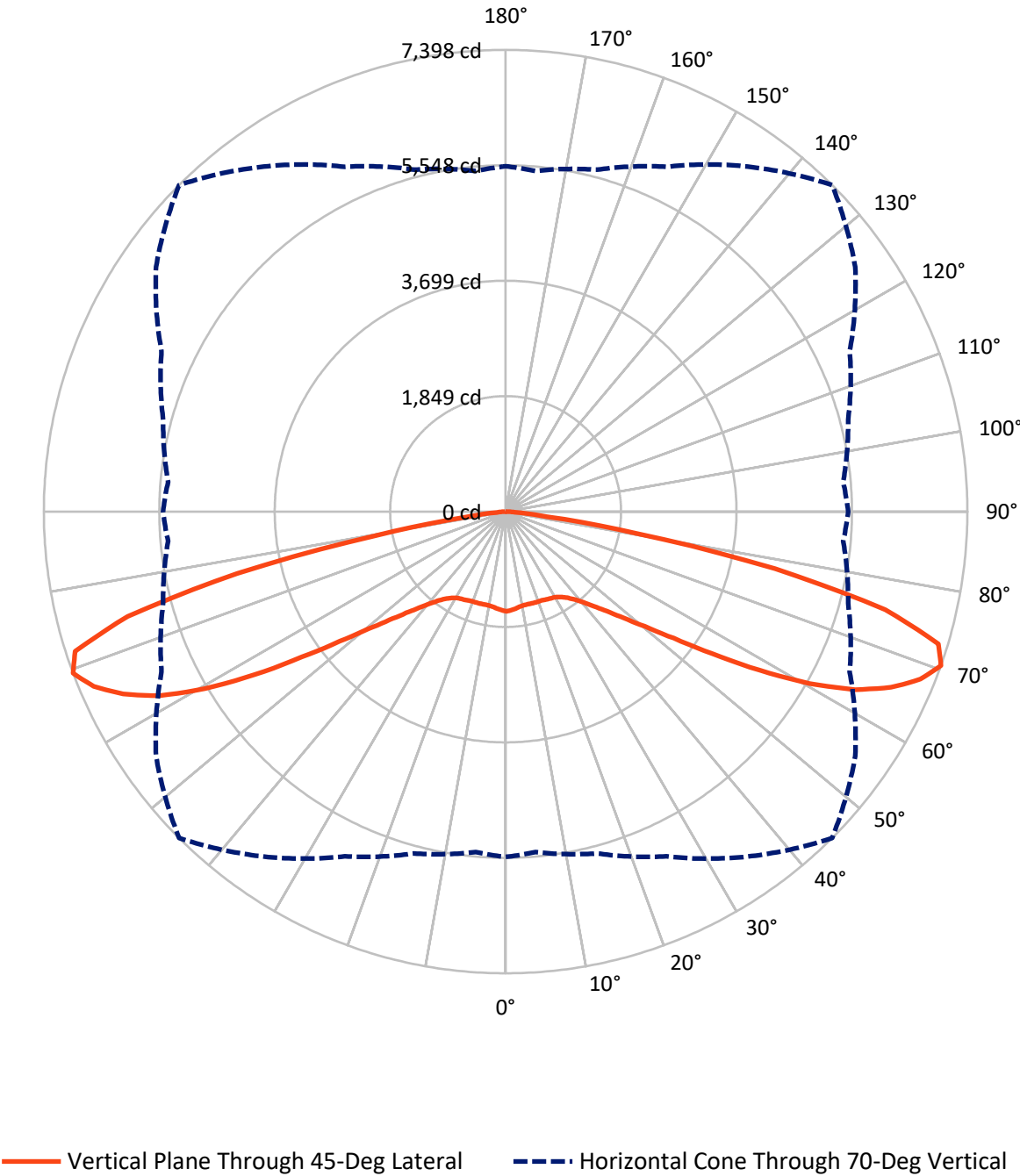


Based on 25 foot mounting height. Maximum calculated value = 2.6 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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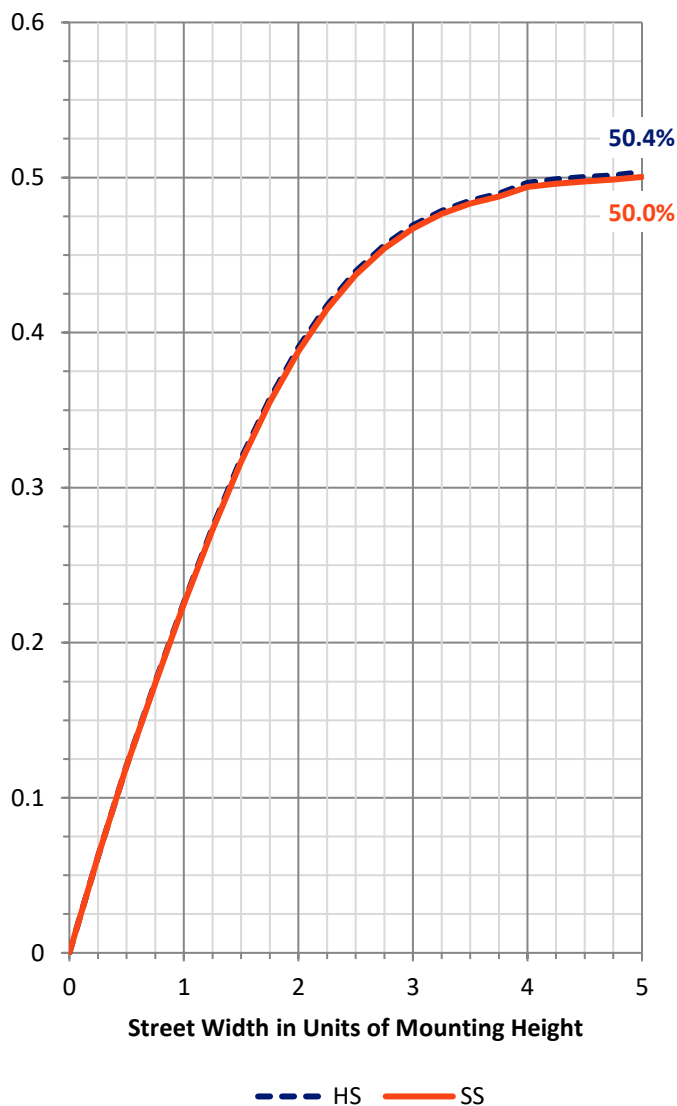
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8758.6	0.0	8758.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8758.6	0.0	8758.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	17517.2	0.0	17517.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.6	0.8
10°-20°	436.5	2.5
20°-30°	726.3	4.1
30°-40°	1098.4	6.3
40°-50°	1825.3	10.4
50°-60°	3444.3	19.7
60°-70°	5815.9	33.2
70°-80°	3821.6	21.8
80°-90°	200.2	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°	17517.2	100.0
0°-180°	17517.2	100.0

Coefficient of Utilization



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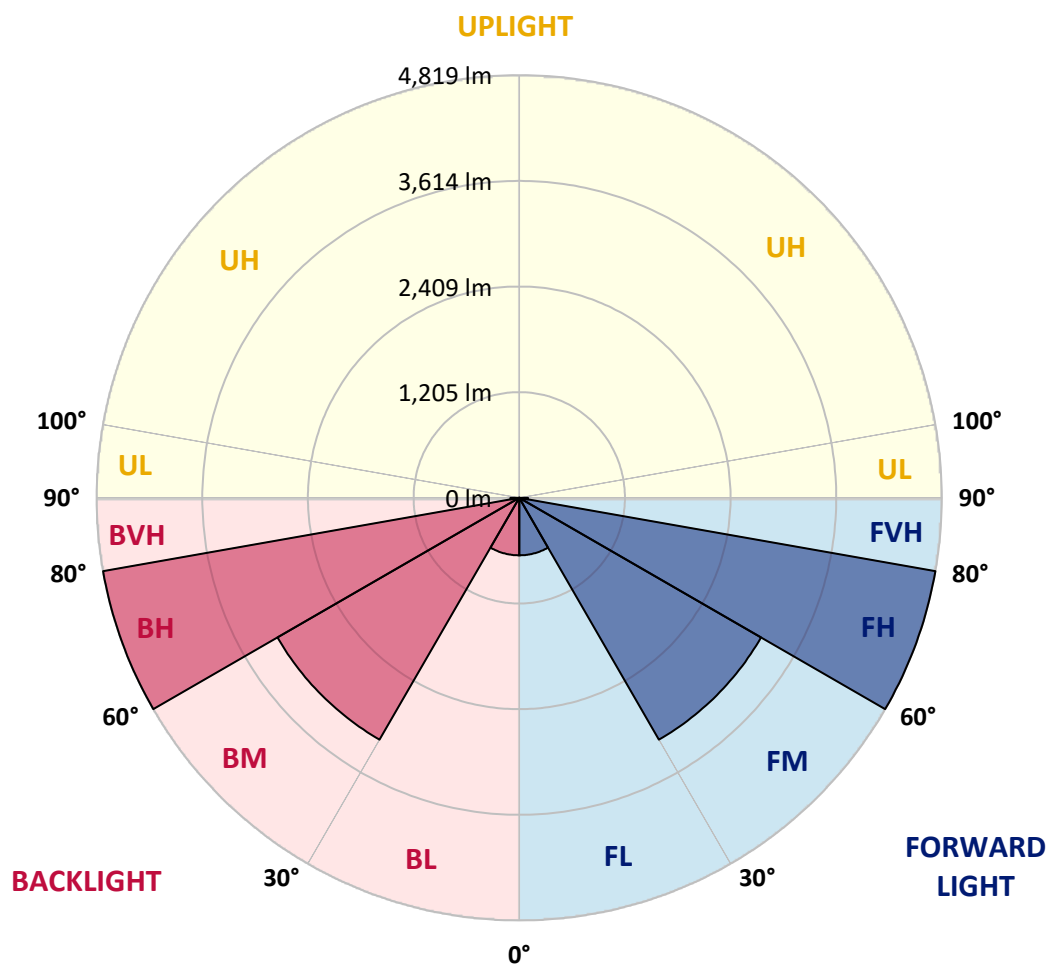
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	655.7	3.7			
FM	(30°-60°)	3184.0	18.2			
FH	(60°-80°)	4818.8	27.5			G2/5000
FVH	(80°-90°)	100.1	0.6			G2/225
BL	(0°-30°)	655.7	3.7	B2/1000		
BM	(30°-60°)	3184.0	18.2	B3/5000		
BH	(60°-80°)	4818.8	27.5	B4/5000		G2/5000
BVH	(80°-90°)	100.1	0.6			G2/225
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°	1598.0	1598.0	1598.0	1598.0	1598.0	1598.0	1598.0	1598.0	1598.0	1598.0	1598.0
2.5°	1587.9	1592.4	1590.6	1587.0	1587.0	1584.2	1587.0	1588.9	1591.5	1593.4	1592.4
5°	1567.0	1570.6	1569.7	1567.0	1567.8	1565.2	1567.0	1569.7	1571.5	1572.5	1572.5
7.5°	1548.8	1552.4	1550.6	1546.0	1546.0	1543.3	1544.2	1546.9	1549.7	1550.6	1550.6
10°	1544.2	1547.9	1542.4	1535.1	1532.4	1528.7	1529.6	1532.4	1537.8	1540.6	1540.6
12.5°	1546.0	1548.8	1543.3	1532.4	1529.6	1526.0	1526.0	1528.7	1536.0	1539.7	1540.6
15°	1551.4	1554.2	1546.0	1534.2	1531.5	1528.7	1527.9	1531.5	1539.7	1546.0	1546.9
17.5°	1561.5	1564.3	1551.4	1535.1	1531.5	1532.4	1531.5	1534.2	1546.9	1558.8	1558.8
20°	1570.6	1572.5	1555.1	1535.1	1531.5	1532.4	1531.5	1536.9	1553.3	1569.7	1570.6
22.5°	1573.4	1575.1	1558.8	1541.5	1538.7	1539.7	1538.7	1544.2	1559.6	1576.0	1576.0
25°	1574.3	1577.0	1564.3	1550.6	1555.1	1557.0	1555.1	1556.1	1567.8	1582.5	1581.6
27.5°	1587.9	1591.5	1579.7	1567.8	1570.6	1569.7	1572.5	1575.1	1584.2	1598.8	1595.2
30°	1616.1	1618.9	1608.8	1597.1	1595.2	1588.9	1597.1	1606.1	1616.1	1628.9	1626.2
32.5°	1662.6	1668.1	1655.3	1642.6	1634.4	1630.7	1637.0	1652.5	1666.2	1679.9	1674.4
35°	1739.9	1743.6	1731.7	1708.1	1693.5	1693.5	1699.0	1719.0	1740.9	1758.2	1751.8
37.5°	1849.2	1853.8	1832.8	1804.6	1782.8	1782.8	1790.1	1811.0	1843.8	1868.4	1859.2
40°	1982.1	1988.5	1962.2	1932.9	1912.0	1908.4	1917.5	1941.1	1972.1	2003.1	1993.1
42.5°	2142.5	2149.7	2115.1	2089.6	2073.2	2073.2	2077.8	2099.6	2127.8	2166.0	2163.4
45°	2347.2	2360.1	2312.7	2287.2	2271.7	2275.3	2278.1	2297.2	2322.6	2366.4	2364.6
47.5°	2591.3	2604.0	2554.0	2527.5	2524.8	2542.1	2531.2	2544.9	2558.5	2608.6	2594.0
50°	2868.1	2889.9	2855.3	2853.5	2858.9	2890.8	2865.4	2872.7	2857.2	2889.0	2869.9
52.5°	3206.8	3238.7	3232.2	3243.2	3304.2	3369.8	3311.5	3285.9	3227.7	3237.8	3204.0
55°	3617.4	3665.7	3674.7	3740.3	3878.7	4012.6	3888.7	3785.8	3662.0	3639.3	3603.8
57.5°	4084.5	4122.8	4166.4	4300.3	4558.9	4796.5	4558.9	4331.2	4136.4	4090.0	4057.2
60°	4587.1	4634.4	4676.4	4873.9	5258.1	5592.3	5250.9	4889.4	4631.7	4568.8	4514.3
62.5°	5127.0	5188.0	5217.1	5436.6	5884.5	6283.4	5890.9	5453.0	5167.1	5099.7	5045.0
65°	5645.1	5695.2	5727.9	5961.9	6389.8	6789.6	6419.1	5987.4	5693.4	5605.0	5561.3
67.5°	5886.4	5913.7	5993.8	6258.8	6710.4	7166.5	6786.8	6287.0	5958.3	5803.5	5805.3
70°	5533.1	5477.6	5670.6	6094.9	6748.6	7397.8	6836.0	6082.1	5679.7	5428.4	5488.5
72.5°	4275.7	4180.1	4515.1	5240.8	6311.5	7250.3	6355.3	5281.8	4723.7	4213.8	4340.4
75°	2326.3	2218.0	2680.5	3598.3	5033.3	6284.3	5148.9	3701.2	2984.6	2309.0	2459.3
77.5°	656.5	615.5	988.8	1740.9	3027.4	4412.3	3144.0	1779.1	1172.7	695.7	773.1
80°	201.2	194.9	264.0	524.5	1285.7	2113.2	1235.5	530.8	336.0	212.2	224.0
82.5°	119.3	109.3	131.1	191.2	327.8	663.8	318.7	199.4	160.2	107.4	116.5
85°	68.3	63.8	77.4	92.9	110.2	141.1	91.9	94.7	85.6	57.4	60.1
87.5°	28.2	25.5	30.0	29.1	25.5	32.8	24.6	29.1	34.6	22.8	20.9
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)