

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: P962566

Luminaire Tested: **NAV-SB2C-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962566
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-827-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13980 lumens
Efficiency: N/A
Efficacy: 138.6 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

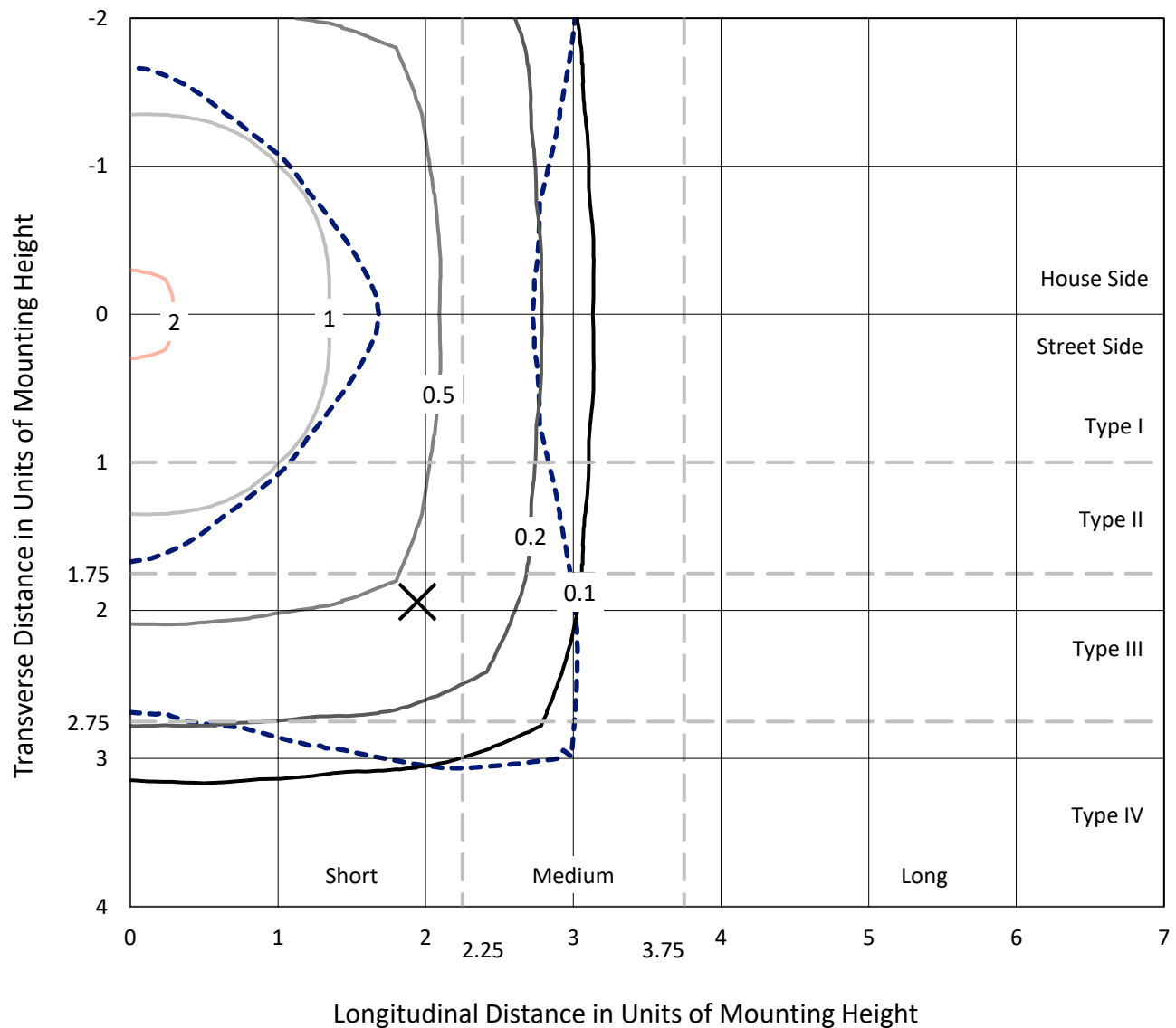


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Iso-Footcandle Lines of Horizontal Illumination

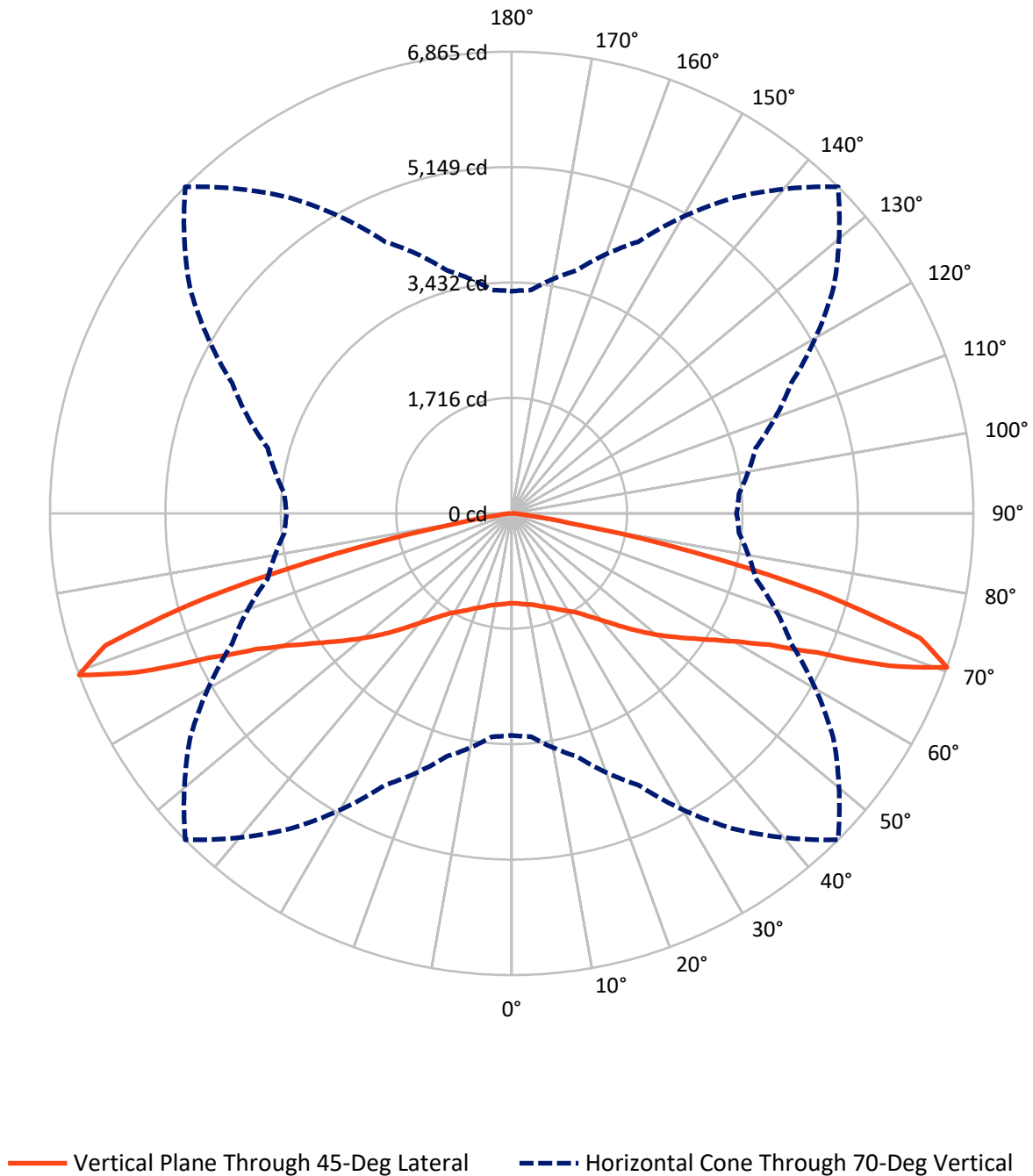
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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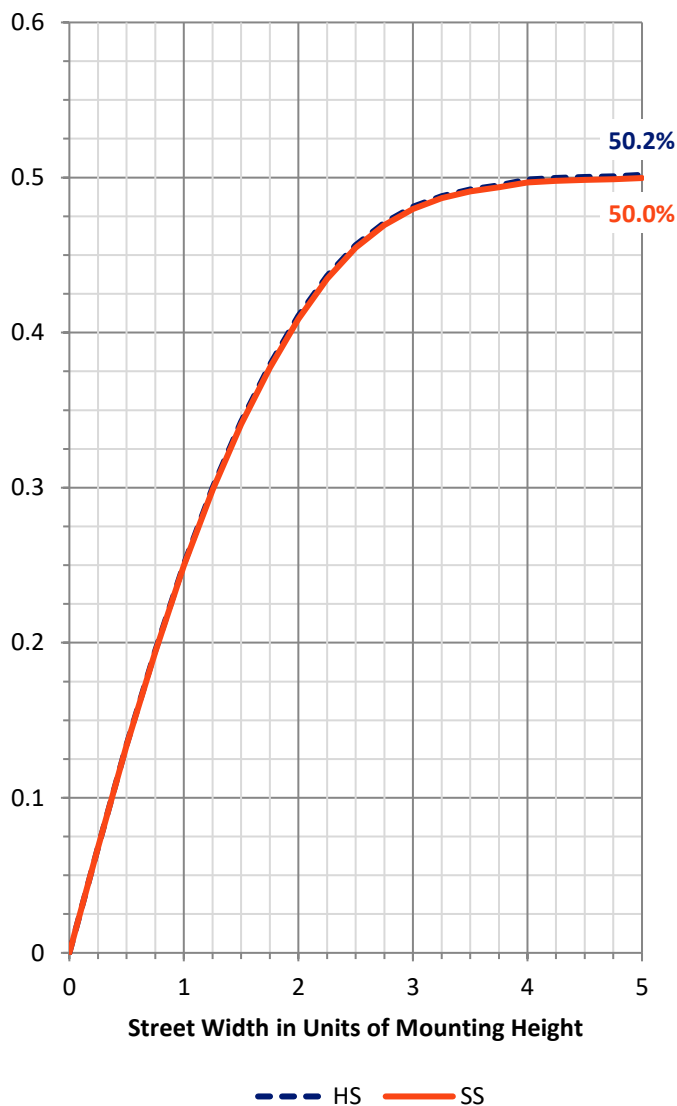
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6990.0	0.0	6990.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6990.0	0.0	6990.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13980.0	0.0	13980.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	0.9
10°-20°	403.4	2.9
20°-30°	721.0	5.2
30°-40°	1168.6	8.4
40°-50°	1903.5	13.6
50°-60°	2902.3	20.8
60°-70°	4317.6	30.9
70°-80°	2353.3	16.8
80°-90°	80.1	0.6
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°	13980.0	100.0
0°-180°	13980.0	100.0

Coefficient of Utilization



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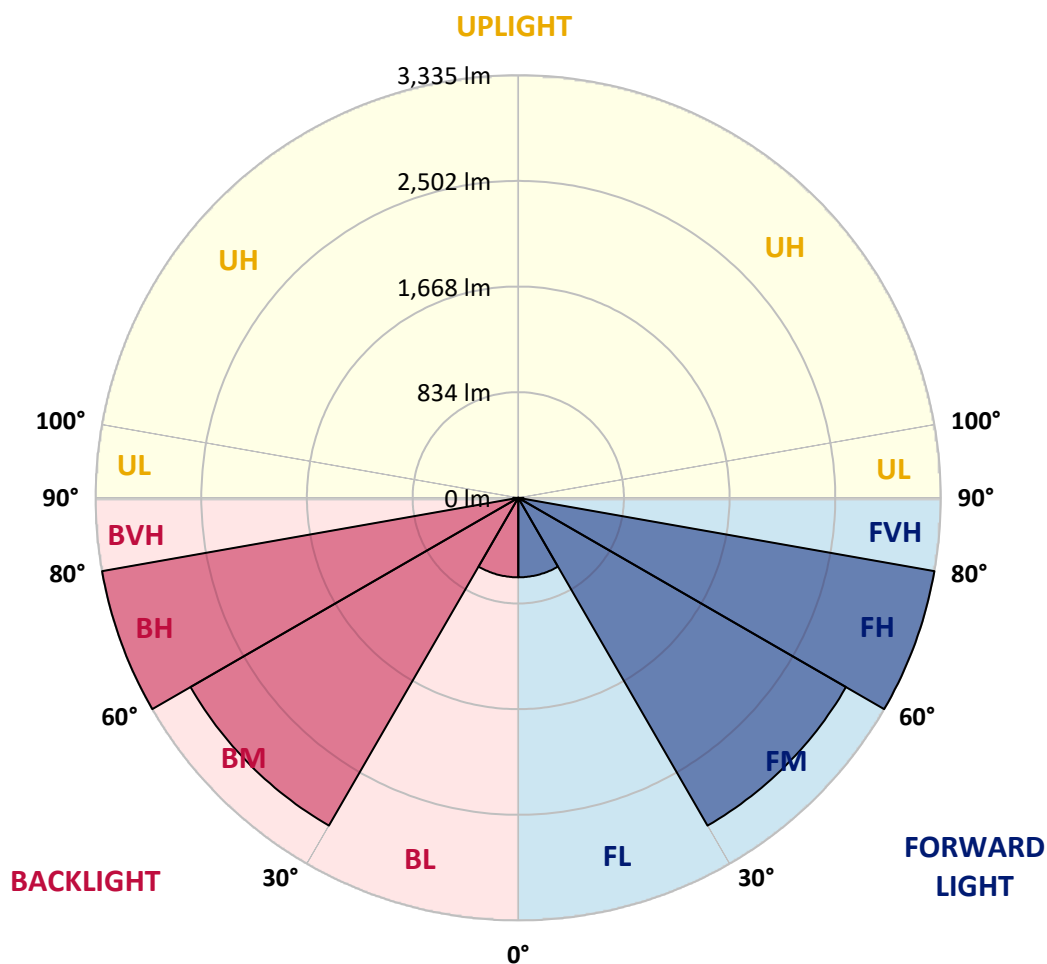
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	627.2	4.5			
FM	(30°-60°)	2987.2	21.4			
FH	(60°-80°)	3335.5	23.9			G2/5000
FVH	(80°-90°)	40.1	0.3			G1/100
BL	(0°-30°)	627.2	4.5	B2/1000		
BM	(30°-60°)	2987.2	21.4	B3/5000		
BH	(60°-80°)	3335.5	23.9	B4/5000		G2/5000
BVH	(80°-90°)	40.1	0.3			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°	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2
2.5°	1345.4	1346.8	1344.1	1342.6	1341.2	1339.2	1339.9	1343.4	1346.1	1345.4	1346.1
5°	1356.7	1358.1	1356.0	1355.3	1352.5	1351.8	1351.8	1355.3	1357.4	1356.0	1356.7
7.5°	1369.3	1371.4	1367.9	1367.2	1365.8	1364.4	1363.7	1367.2	1369.3	1369.3	1369.3
10°	1381.3	1383.3	1380.6	1378.4	1377.1	1377.1	1375.7	1378.4	1381.9	1381.3	1381.3
12.5°	1393.9	1395.3	1392.5	1391.0	1391.0	1393.2	1391.0	1392.5	1395.3	1393.9	1393.2
15°	1409.3	1410.0	1409.3	1411.4	1414.9	1422.0	1415.6	1414.2	1415.6	1412.1	1412.1
17.5°	1430.4	1431.8	1434.6	1439.5	1444.4	1457.0	1445.9	1442.3	1442.3	1435.3	1435.3
20°	1456.3	1458.5	1462.7	1471.1	1477.4	1489.3	1478.2	1473.2	1471.1	1462.0	1462.0
22.5°	1483.7	1487.3	1493.5	1504.8	1516.0	1527.2	1516.0	1507.6	1501.2	1489.3	1488.6
25°	1515.3	1519.6	1529.3	1547.5	1563.0	1579.2	1565.8	1549.0	1536.4	1519.6	1518.8
27.5°	1560.3	1565.2	1577.1	1599.5	1619.2	1633.2	1620.6	1598.8	1581.3	1561.0	1560.3
30°	1623.4	1628.3	1642.4	1666.2	1679.6	1688.7	1680.3	1663.4	1642.4	1619.2	1619.2
32.5°	1704.8	1711.1	1726.5	1749.1	1751.8	1753.3	1750.4	1742.0	1726.5	1698.5	1699.1
35°	1808.0	1815.0	1832.5	1850.7	1848.0	1850.7	1846.5	1843.8	1832.5	1800.2	1800.2
37.5°	1934.3	1942.7	1961.0	1975.0	1968.0	1964.5	1965.2	1965.8	1959.6	1923.8	1923.8
40°	2081.0	2092.2	2105.6	2120.3	2108.3	2097.9	2104.8	2110.5	2104.8	2068.3	2068.3
42.5°	2231.9	2248.0	2262.1	2283.1	2273.3	2259.9	2269.8	2276.1	2264.2	2224.9	2227.6
45°	2399.6	2415.1	2433.4	2464.9	2457.8	2443.8	2457.8	2459.3	2439.0	2392.7	2397.6
47.5°	2573.0	2589.1	2616.5	2658.6	2655.8	2640.4	2658.6	2648.8	2622.9	2567.4	2563.8
50°	2737.3	2759.7	2801.8	2860.8	2866.4	2847.4	2871.9	2853.0	2809.5	2740.0	2738.6
52.5°	2891.6	2915.5	2982.1	3062.2	3082.6	3058.0	3091.0	3058.0	2992.7	2903.6	2895.1
55°	3053.8	3080.4	3159.8	3264.3	3305.0	3286.8	3317.6	3267.8	3175.1	3067.1	3052.3
57.5°	3244.6	3260.8	3355.5	3479.8	3548.6	3552.8	3566.8	3482.6	3370.3	3247.5	3230.6
60°	3451.7	3474.1	3577.4	3726.2	3834.9	3870.0	3855.3	3730.4	3599.8	3458.8	3436.3
62.5°	3717.1	3741.6	3865.1	4043.4	4215.3	4302.3	4244.8	4063.7	3902.3	3733.2	3703.6
65°	3936.7	3964.1	4187.2	4505.2	4818.2	4993.0	4848.5	4515.0	4224.4	3985.8	3946.6
67.5°	3777.3	3811.1	4161.3	4745.2	5523.6	6045.0	5550.3	4816.8	4247.6	3924.1	3875.6
70°	3301.5	3333.1	3741.6	4455.4	5722.2	6864.8	5841.6	4586.6	3754.9	3392.7	3344.4
72.5°	2191.9	2293.6	2707.0	3563.3	5109.5	6352.4	5160.1	3491.0	2511.2	2186.9	2116.1
75°	727.1	808.5	1090.7	1847.3	3422.3	4750.9	3258.0	1634.6	864.0	621.9	588.1
77.5°	183.2	211.3	291.3	528.5	1365.1	2705.0	1229.0	431.6	235.1	164.2	146.7
80°	89.2	98.3	140.3	176.2	341.8	859.8	320.7	165.6	110.9	85.6	78.6
82.5°	49.1	49.8	79.3	99.6	127.0	222.5	131.9	96.9	63.9	52.0	52.0
85°	30.1	29.5	42.1	53.3	53.3	79.3	63.1	53.3	36.5	32.3	33.7
87.5°	11.9	11.9	15.5	16.8	14.8	20.4	16.1	17.5	14.0	13.3	14.0
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)