

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: P963656

Luminaire Tested: **NAV-SB3A-830-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-830-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12764.3 lumens
Efficiency: N/A
Efficacy: 150.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 84.7
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



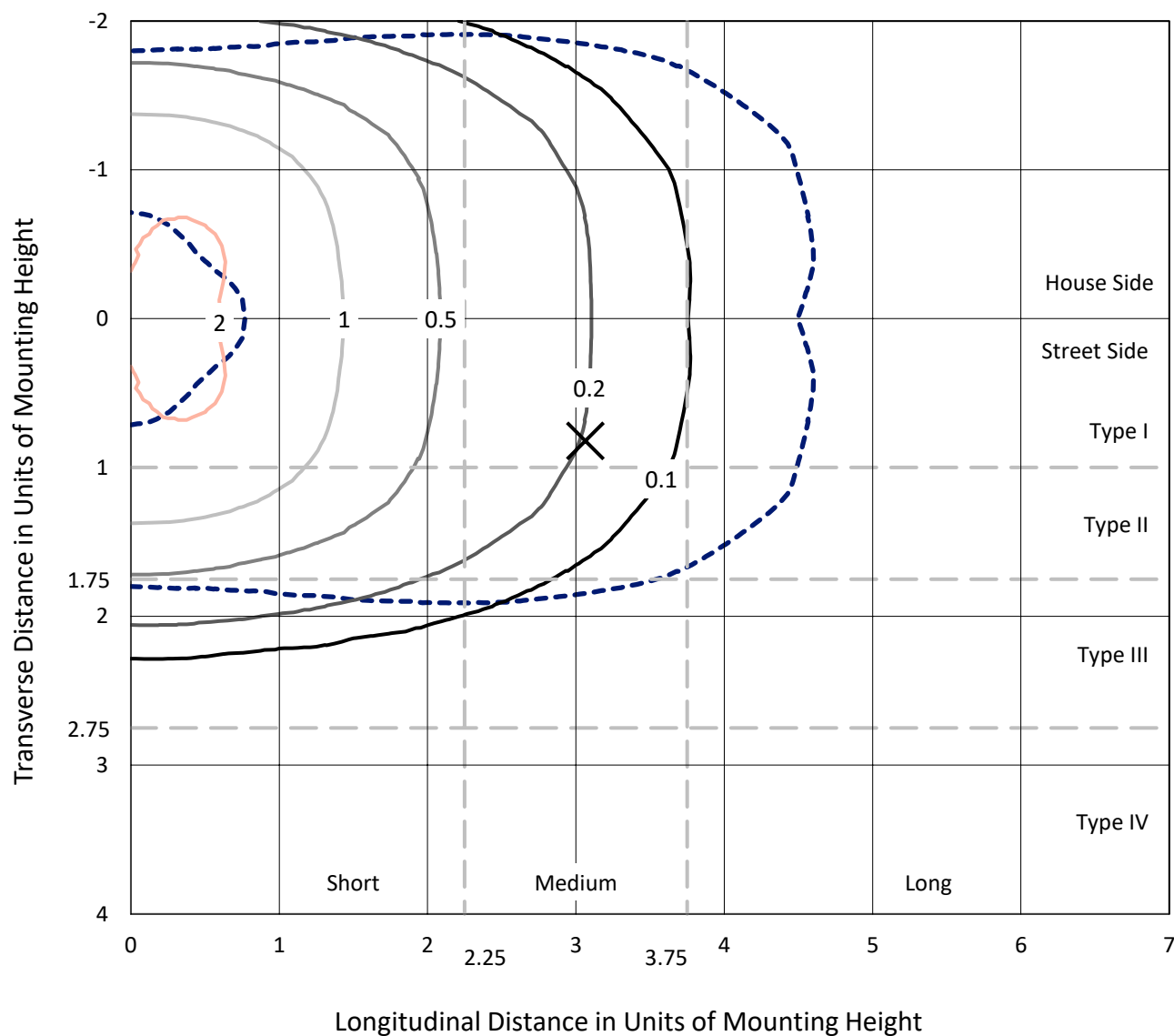
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

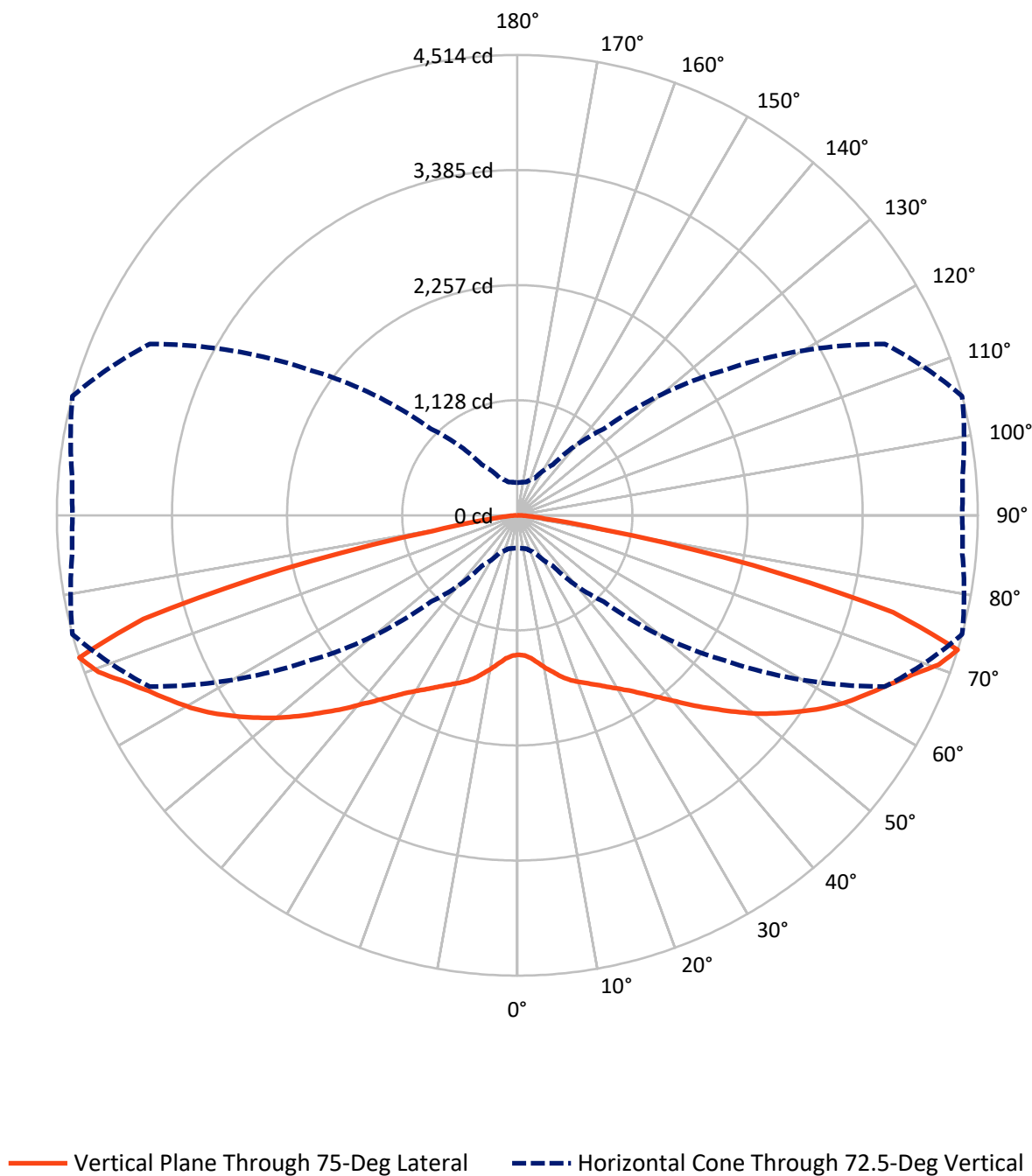


Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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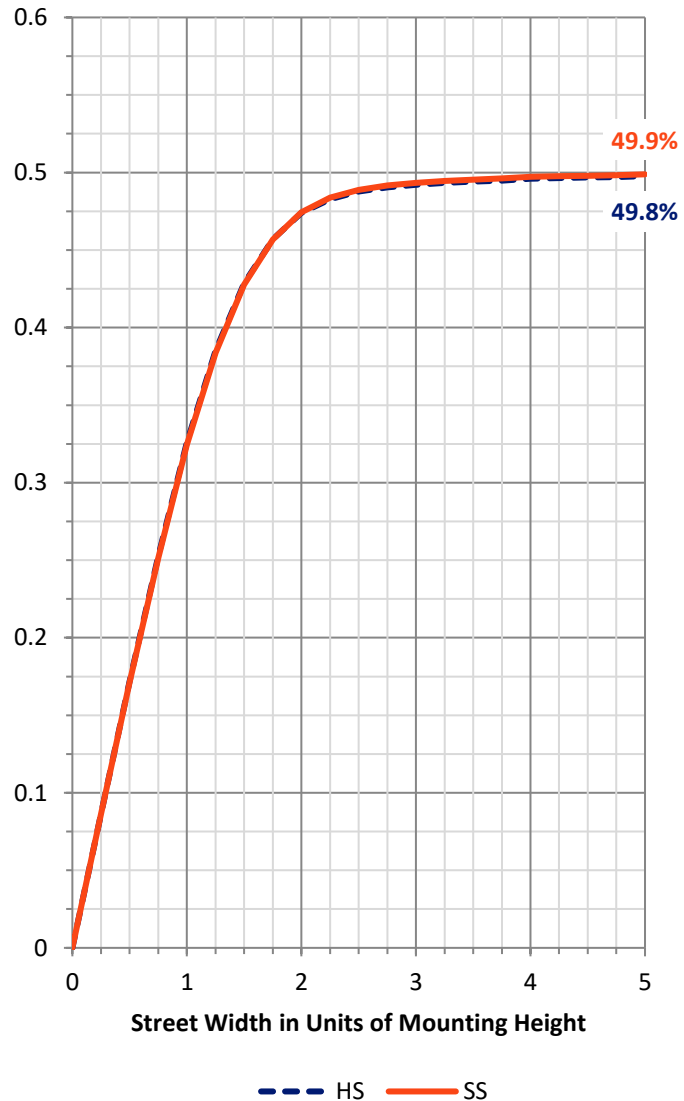
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6382.2	0.0	6382.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6382.2	0.0	6382.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	12764.3	0.0	12764.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.9	1.0
10°-20°	441.8	3.5
20°-30°	853.6	6.7
30°-40°	1441.3	11.3
40°-50°	2285.8	17.9
50°-60°	3060.4	24.0
60°-70°	2912.5	22.8
70°-80°	1519.8	11.9
80°-90°	115.0	0.9
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°	12764.3	100.0
0°-180°	12764.3	100.0

Coefficient of Utilization



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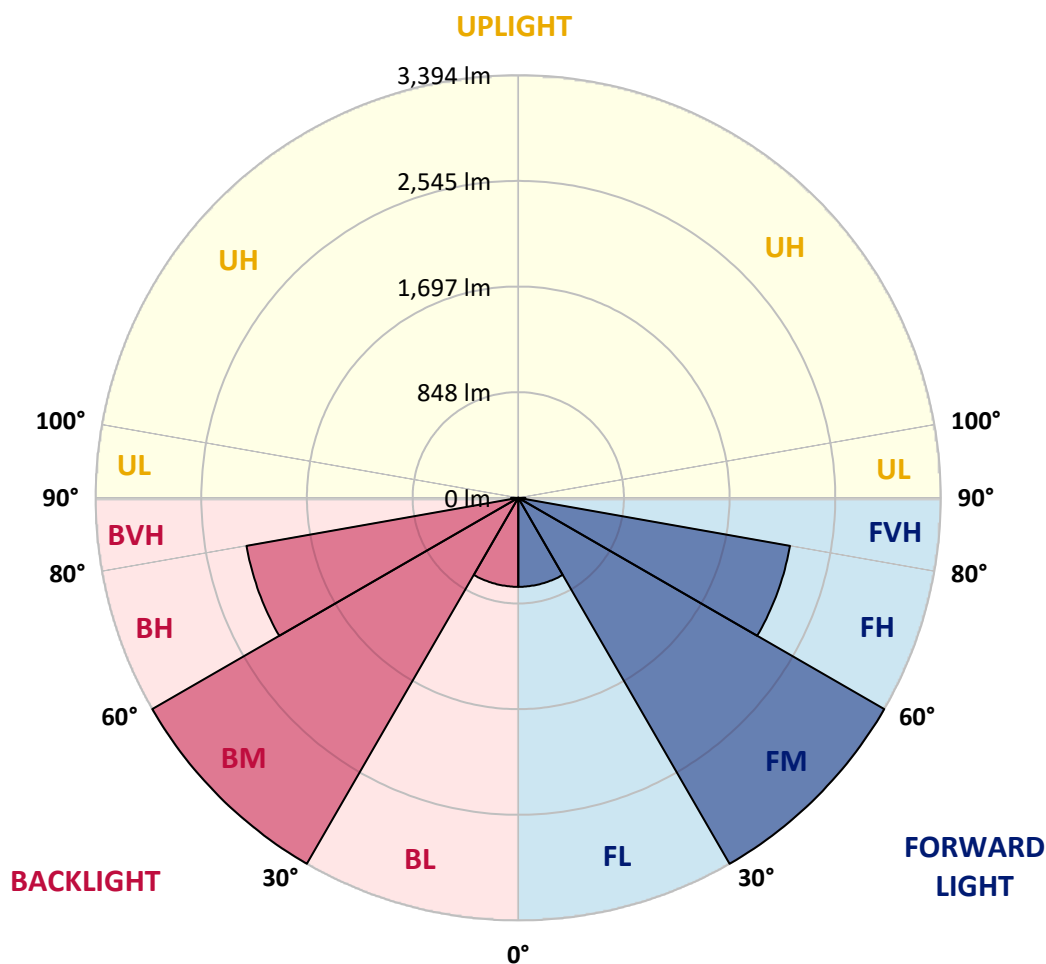
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	714.6	5.6			
FM	(30°-60°)	3393.8	26.6			
FH	(60°-80°)	2216.2	17.4			G2/5000
FVH	(80°-90°)	57.5	0.5			G1/100
BL	(0°-30°)	714.6	5.6	B2/1000		
BM	(30°-60°)	3393.8	26.6	B3/5000		
BH	(60°-80°)	2216.2	17.4	B3/2500		G3/2500
BVH	(80°-90°)	57.5	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1367.2	1367.2	1367.2	1367.2	1367.2	1367.2	1367.2	1367.2	1367.2	1367.2	1367.2
2.5°	1367.2	1366.0	1367.2	1368.6	1368.0	1368.0	1371.2	1373.2	1377.1	1376.4	1375.8
5°	1358.1	1357.5	1362.7	1368.6	1373.2	1381.0	1390.7	1397.9	1407.0	1409.0	1409.0
7.5°	1353.6	1351.7	1360.8	1371.2	1385.5	1405.1	1424.0	1443.5	1459.2	1464.4	1465.6
10°	1356.9	1357.5	1369.9	1389.5	1412.2	1439.6	1466.4	1499.6	1521.7	1526.9	1532.2
12.5°	1371.9	1370.5	1391.4	1422.7	1454.0	1488.5	1519.8	1556.3	1580.4	1592.7	1598.0
15°	1399.2	1396.7	1426.0	1472.2	1517.8	1558.2	1583.6	1618.2	1646.3	1661.8	1667.7
17.5°	1431.8	1433.2	1471.6	1531.6	1591.5	1637.1	1661.2	1678.8	1700.3	1714.0	1720.6
20°	1489.1	1491.8	1534.7	1605.8	1674.2	1726.4	1745.9	1739.4	1745.3	1755.7	1763.5
22.5°	1566.1	1567.3	1615.6	1692.5	1764.2	1821.5	1834.5	1807.8	1791.6	1798.7	1803.9
25°	1655.4	1663.8	1712.1	1790.9	1864.6	1919.3	1925.2	1884.8	1844.4	1846.3	1849.5
27.5°	1764.2	1772.0	1820.9	1899.1	1974.0	2021.6	2021.0	1966.9	1907.5	1892.6	1897.2
30°	1882.1	1890.6	1940.8	2021.6	2091.3	2133.0	2123.9	2059.4	1974.7	1946.7	1950.0
32.5°	2022.2	2027.4	2078.3	2159.2	2223.6	2256.8	2238.0	2158.4	2052.9	2021.0	2028.8
35°	2191.7	2199.5	2237.4	2313.5	2370.3	2397.7	2365.7	2271.9	2153.2	2117.4	2122.6
37.5°	2385.3	2380.0	2423.1	2490.9	2537.8	2554.7	2511.0	2399.6	2267.9	2225.6	2233.4
40°	2587.3	2584.6	2631.6	2696.8	2722.2	2732.6	2668.1	2546.2	2400.2	2354.6	2369.6
42.5°	2770.4	2768.4	2831.7	2904.0	2934.7	2922.9	2841.5	2702.0	2553.4	2501.3	2514.3
45°	2917.0	2914.5	2992.0	3093.7	3153.6	3134.0	3024.6	2874.0	2708.5	2654.4	2666.8
47.5°	3029.8	3031.1	3114.6	3240.3	3345.2	3352.4	3211.6	3049.4	2879.2	2818.0	2836.3
50°	3111.3	3115.2	3204.5	3344.0	3487.3	3550.5	3402.6	3229.3	3055.8	2986.7	3007.7
52.5°	3131.5	3138.7	3246.2	3409.8	3578.6	3699.1	3596.8	3402.0	3223.3	3157.5	3174.5
55°	3024.0	3038.3	3174.5	3404.5	3634.5	3796.9	3767.5	3577.2	3392.1	3324.4	3343.2
57.5°	2776.9	2797.1	2956.2	3256.6	3622.2	3863.9	3899.8	3745.3	3561.0	3495.8	3510.7
60°	2430.9	2455.0	2607.5	2935.3	3447.6	3888.7	3993.0	3908.9	3716.0	3652.8	3666.5
62.5°	1908.9	1940.1	2122.6	2507.1	3078.7	3773.4	4072.5	4056.8	3855.5	3776.6	3785.7
65°	1224.6	1257.8	1450.1	1904.3	2586.6	3420.2	4097.3	4201.0	4002.8	3892.6	3906.4
67.5°	738.4	753.4	848.5	1154.1	1890.6	2887.7	3887.4	4360.6	4174.8	4038.0	4048.4
70°	472.5	480.9	537.6	677.7	1068.8	2107.0	3367.4	4390.6	4383.4	4187.2	4185.9
72.5°	320.6	323.3	338.2	401.5	604.8	1197.2	2483.7	3974.7	4513.8	4379.5	4358.6
75°	234.6	249.0	273.1	284.1	343.5	598.3	1423.3	2792.6	3804.1	3862.7	3720.6
77.5°	174.7	175.3	208.6	221.6	245.1	318.7	602.2	1558.9	2361.8	2479.8	2212.0
80°	147.9	140.1	139.5	178.6	184.4	198.7	269.2	538.3	845.9	512.9	387.8
82.5°	123.2	114.7	103.6	139.5	125.8	121.9	116.6	218.9	269.2	132.3	112.7
85°	86.0	82.1	78.2	91.2	71.6	61.3	56.1	102.3	113.4	56.1	49.5
87.5°	37.1	38.4	39.1	40.4	29.9	21.5	21.5	28.7	28.7	22.1	16.3
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)