

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: P962567

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962567
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-827-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13988.2 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: B3 - U0 - G2

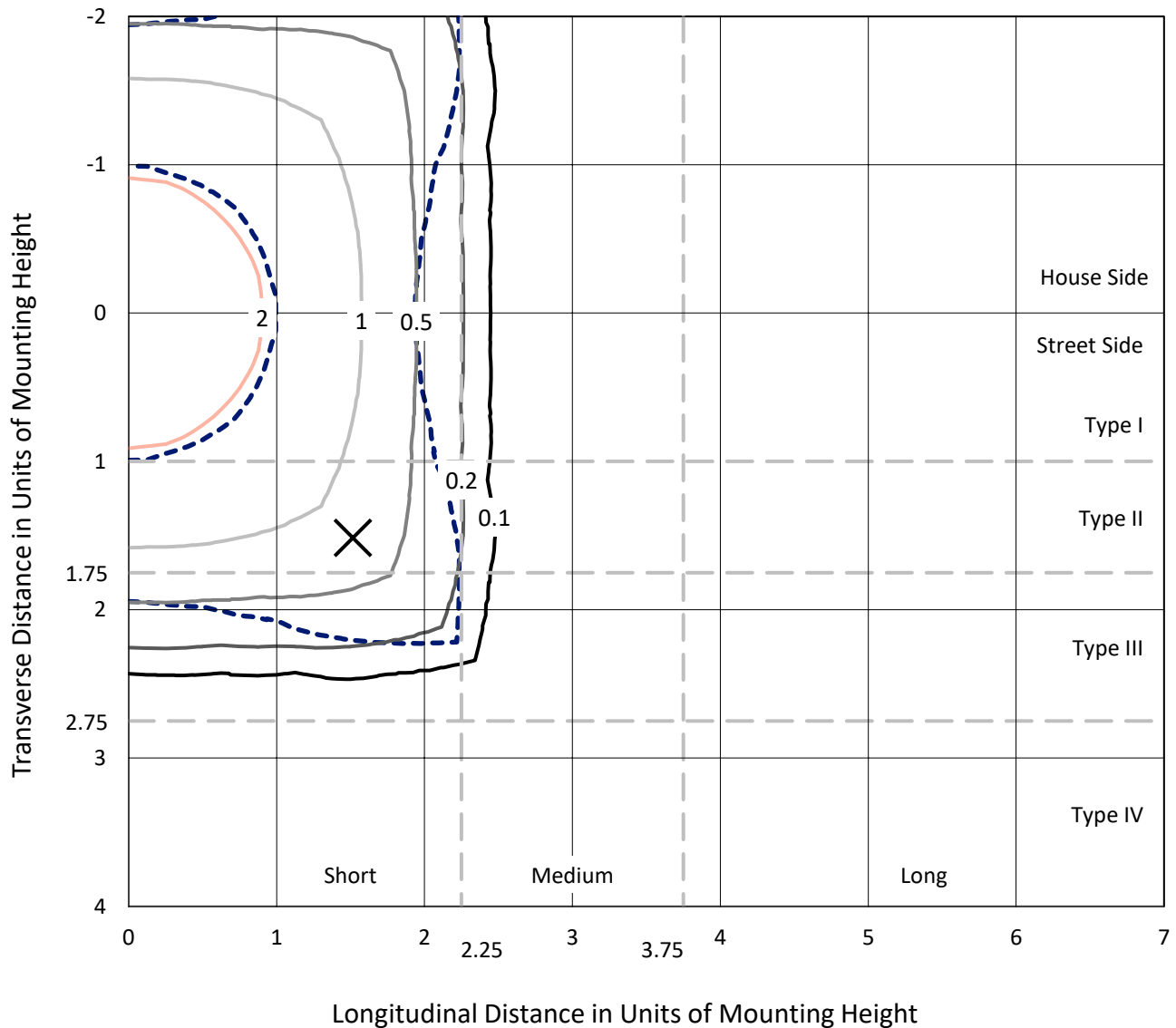
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

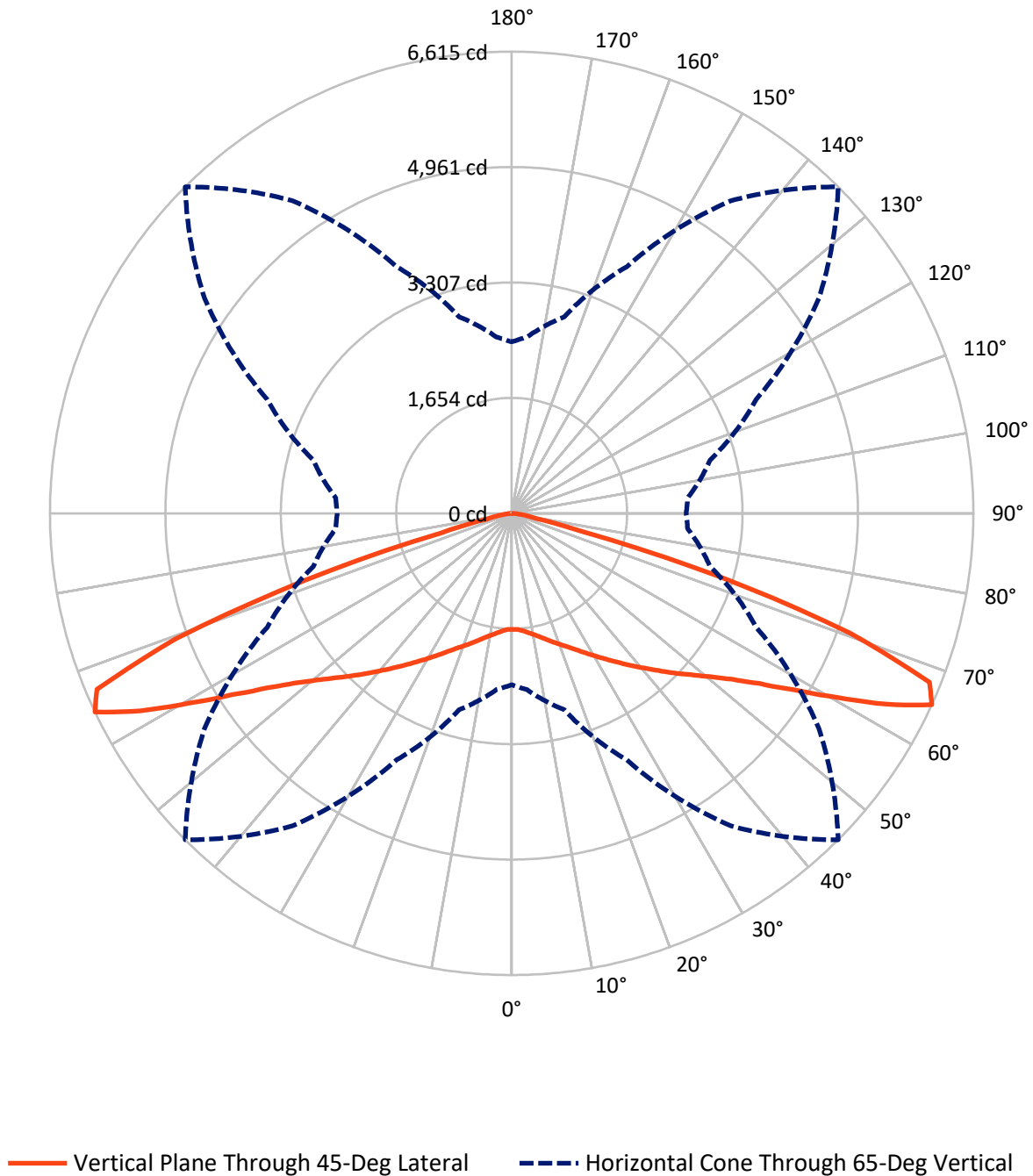
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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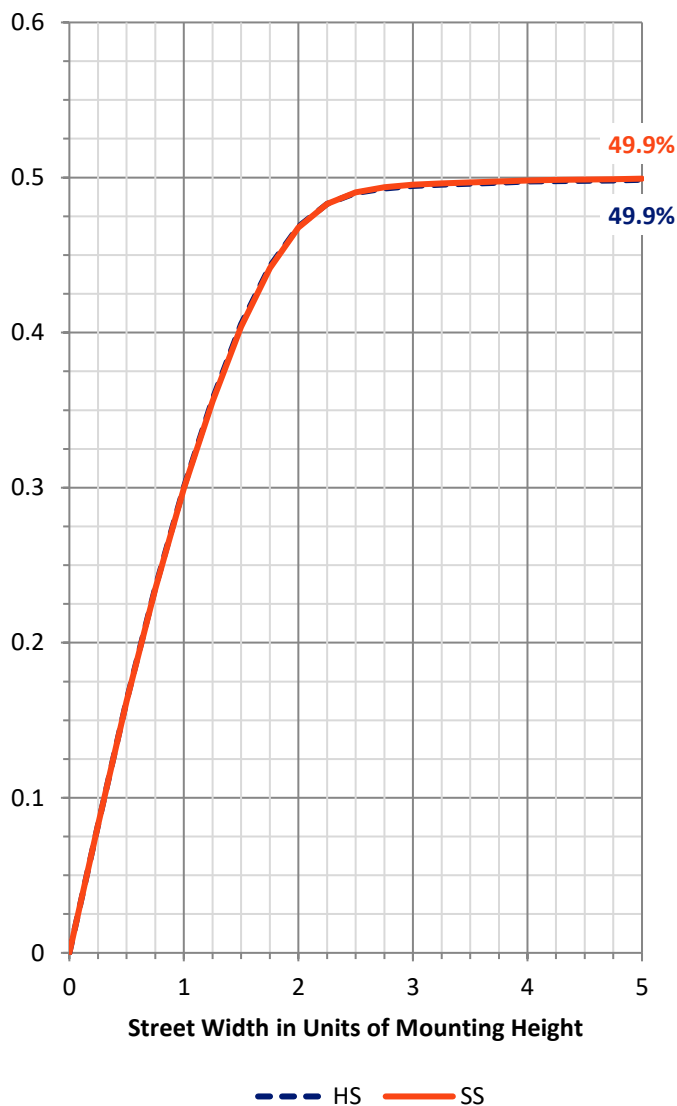
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6994.1	0.0	6994.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6994.1	0.0	6994.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	13988.2	0.0	13988.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.3	1.2
10°-20°	536.1	3.8
20°-30°	1012.2	7.2
30°-40°	1657.5	11.8
40°-50°	2569.9	18.4
50°-60°	3796.3	27.1
60°-70°	3613.8	25.8
70°-80°	583.1	4.2
80°-90°	55.0	0.4
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°	13988.2	100.0
0°-180°	13988.2	100.0

Coefficient of Utilization



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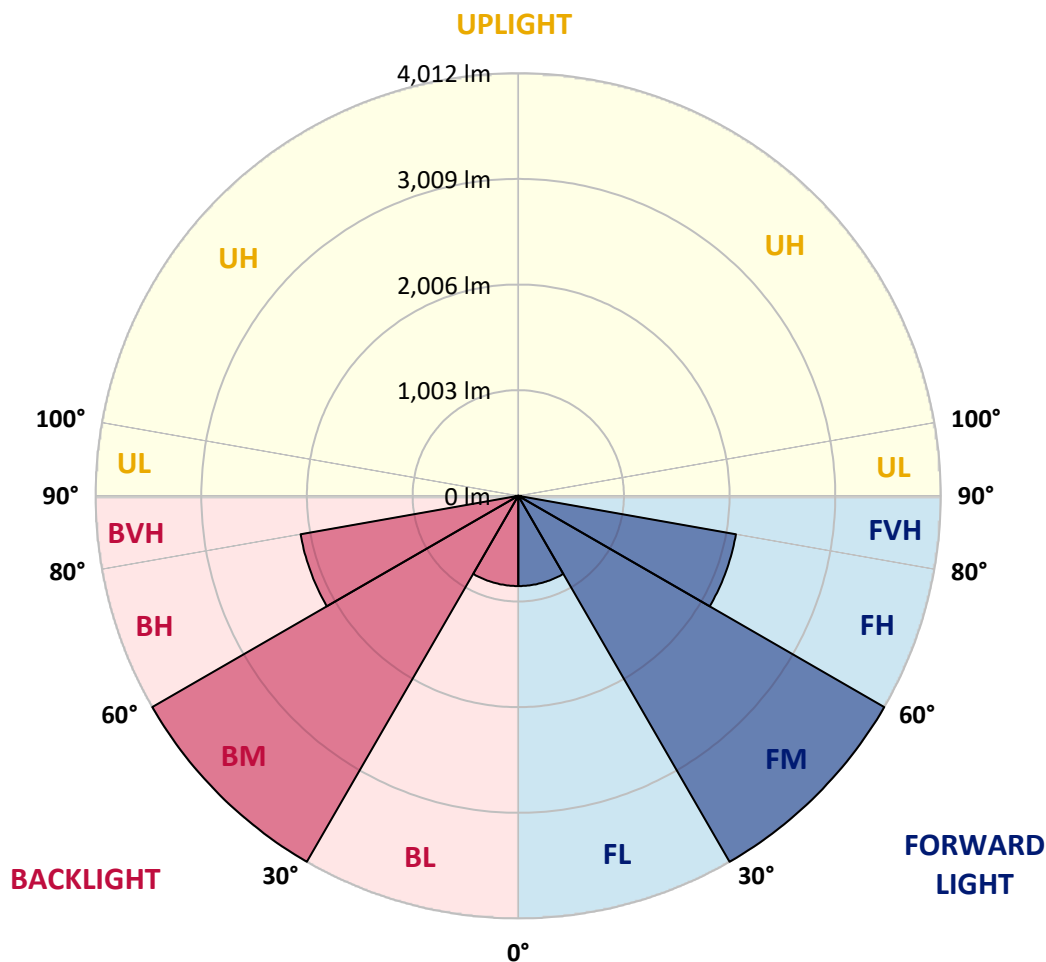
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	856.3	6.1			
FM	(30°-60°)	4011.9	28.7			
FH	(60°-80°)	2098.4	15.0			G2/5000
FVH	(80°-90°)	27.5	0.2			G1/100
BL	(0°-30°)	856.3	6.1	B2/1000		
BM	(30°-60°)	4011.9	28.7	B3/5000		
BH	(60°-80°)	2098.4	15.0	B3/2500		G2/5000
BVH	(80°-90°)	27.5	0.2			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°	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7
2.5°	1676.0	1670.3	1674.5	1671.1	1668.3	1665.4	1666.9	1671.8	1673.8	1674.5	1674.5
5°	1698.4	1693.5	1695.7	1695.7	1690.7	1689.3	1690.0	1693.5	1697.7	1697.7	1697.7
7.5°	1734.9	1730.0	1734.9	1732.1	1727.9	1726.5	1725.8	1728.6	1734.9	1734.9	1732.8
10°	1779.1	1773.6	1776.3	1774.9	1770.0	1767.9	1767.2	1771.4	1777.0	1776.3	1774.9
12.5°	1827.6	1821.2	1824.7	1820.5	1819.2	1817.0	1817.0	1816.3	1819.9	1817.0	1818.5
15°	1881.6	1877.4	1878.8	1876.0	1878.1	1876.7	1871.0	1868.3	1869.7	1865.5	1866.1
17.5°	1945.4	1935.6	1940.5	1939.2	1939.2	1942.0	1932.8	1929.4	1932.1	1927.9	1931.4
20°	2019.1	2009.3	2011.5	2008.6	2005.1	2008.0	1996.7	1999.5	2001.6	1998.9	2005.1
22.5°	2099.8	2087.2	2086.5	2087.9	2080.2	2081.0	2073.2	2080.2	2084.4	2076.8	2084.4
25°	2182.6	2169.3	2178.4	2174.9	2165.1	2167.3	2161.6	2168.7	2172.2	2162.3	2173.5
27.5°	2270.4	2261.3	2269.7	2271.8	2259.9	2268.3	2259.9	2266.2	2269.7	2255.0	2266.2
30°	2372.9	2363.8	2371.4	2377.1	2363.0	2376.4	2369.4	2373.6	2374.3	2356.8	2367.2
32.5°	2484.5	2470.5	2490.0	2492.9	2477.4	2493.6	2484.5	2490.0	2493.6	2469.7	2485.8
35°	2620.6	2603.1	2625.5	2622.1	2608.7	2622.1	2613.6	2622.1	2630.5	2601.7	2619.2
37.5°	2767.3	2749.0	2772.9	2766.6	2754.0	2763.1	2758.2	2763.8	2777.1	2746.3	2765.2
40°	2928.7	2906.3	2938.6	2927.3	2915.4	2914.0	2916.8	2920.3	2937.9	2903.4	2914.7
42.5°	3101.3	3077.5	3125.9	3108.4	3091.5	3080.3	3089.5	3096.4	3113.3	3074.7	3095.1
45°	3298.6	3271.2	3334.4	3313.3	3286.7	3263.5	3278.3	3288.7	3313.3	3267.0	3290.9
47.5°	3516.2	3485.3	3552.6	3546.3	3502.8	3452.3	3485.9	3516.2	3534.4	3478.2	3497.2
50°	3728.8	3705.0	3793.4	3801.1	3747.7	3676.9	3723.9	3769.5	3774.5	3700.8	3709.9
52.5°	3928.1	3904.2	4032.7	4081.1	4033.4	3949.2	3999.0	4045.4	4008.2	3912.7	3915.5
55°	4087.4	4067.8	4231.3	4356.2	4372.3	4303.0	4332.4	4330.9	4208.9	4062.2	4067.1
57.5°	4126.0	4123.3	4329.6	4594.2	4762.6	4771.1	4712.7	4564.0	4300.8	4103.6	4091.0
60°	3950.6	3968.1	4251.7	4718.4	5167.5	5354.2	5102.2	4677.7	4196.2	3922.5	3890.2
62.5°	3425.7	3472.0	3813.7	4566.8	5494.6	6025.2	5414.6	4505.0	3766.7	3409.5	3388.4
65°	2455.0	2535.7	2913.3	3897.3	5465.1	6614.7	5369.7	3865.7	2941.3	2529.4	2499.2
67.5°	1113.8	1195.9	1516.7	2668.4	4750.7	6454.7	4739.4	2696.5	1592.4	1200.2	1182.5
70°	403.5	417.6	520.8	1068.2	3036.2	5142.9	3165.9	1075.9	553.7	445.0	439.3
72.5°	244.3	246.3	268.1	382.5	1054.8	3122.5	1099.7	395.1	273.7	242.8	247.0
75°	155.1	153.8	190.9	233.7	374.0	1053.4	392.4	233.7	190.2	173.3	174.8
77.5°	111.6	115.1	136.8	174.8	235.9	357.2	231.6	167.1	136.8	112.3	114.4
80°	83.5	85.6	99.6	136.1	165.6	222.5	147.4	123.5	103.2	70.2	72.3
82.5°	60.4	60.4	65.3	98.9	101.1	120.0	80.1	87.0	68.1	49.8	49.8
85°	35.8	35.1	40.7	58.9	52.7	44.2	36.5	53.3	42.8	30.9	30.1
87.5°	12.6	13.3	12.6	16.8	14.0	11.9	11.3	14.8	11.9	10.6	9.8
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)