

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: P964183

Luminaire Tested: **NAV-SB3B-830-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964183
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-SB3B-830-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16023.8 lumens
Efficiency: N/A
Efficacy: 146.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

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



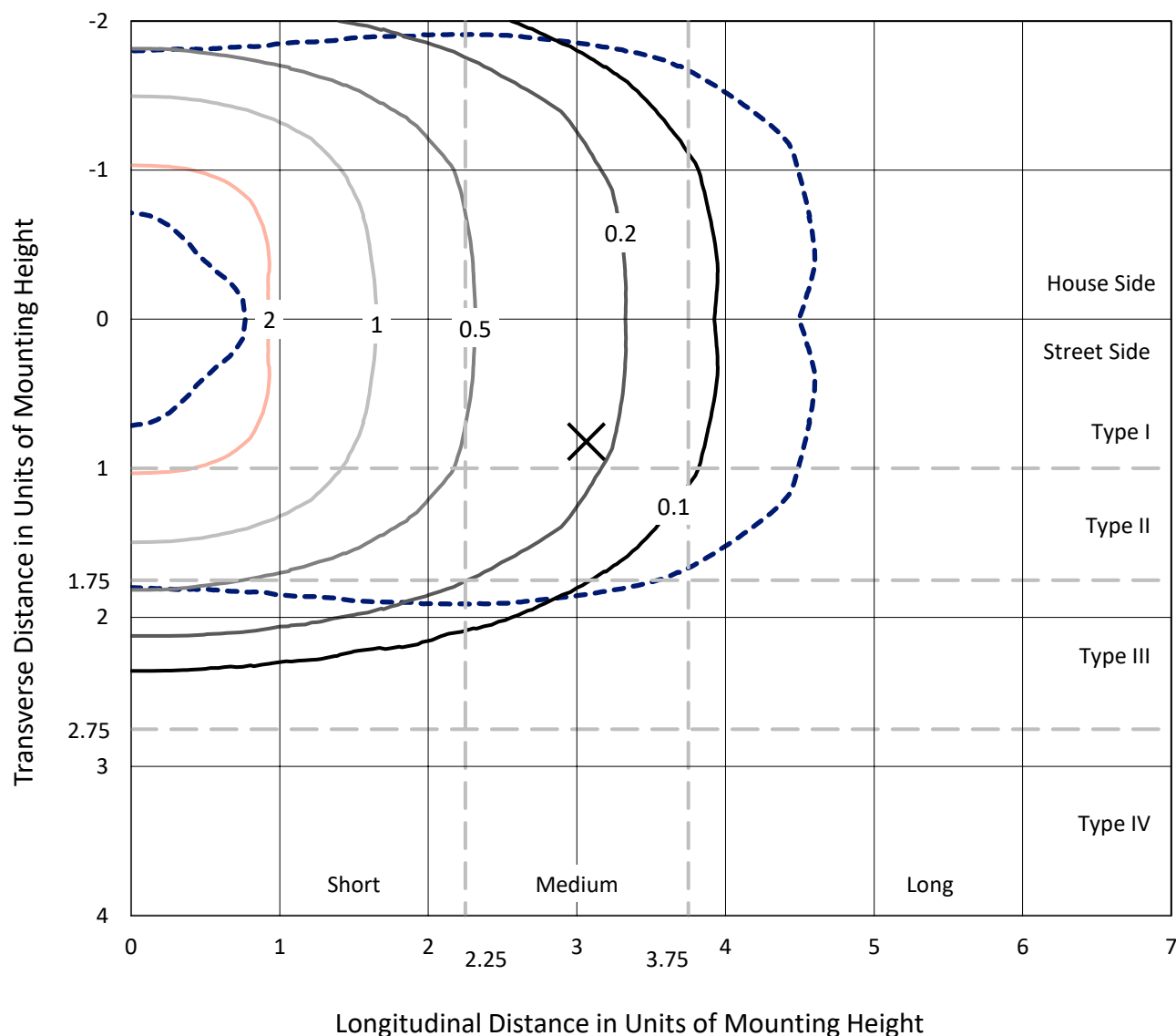
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

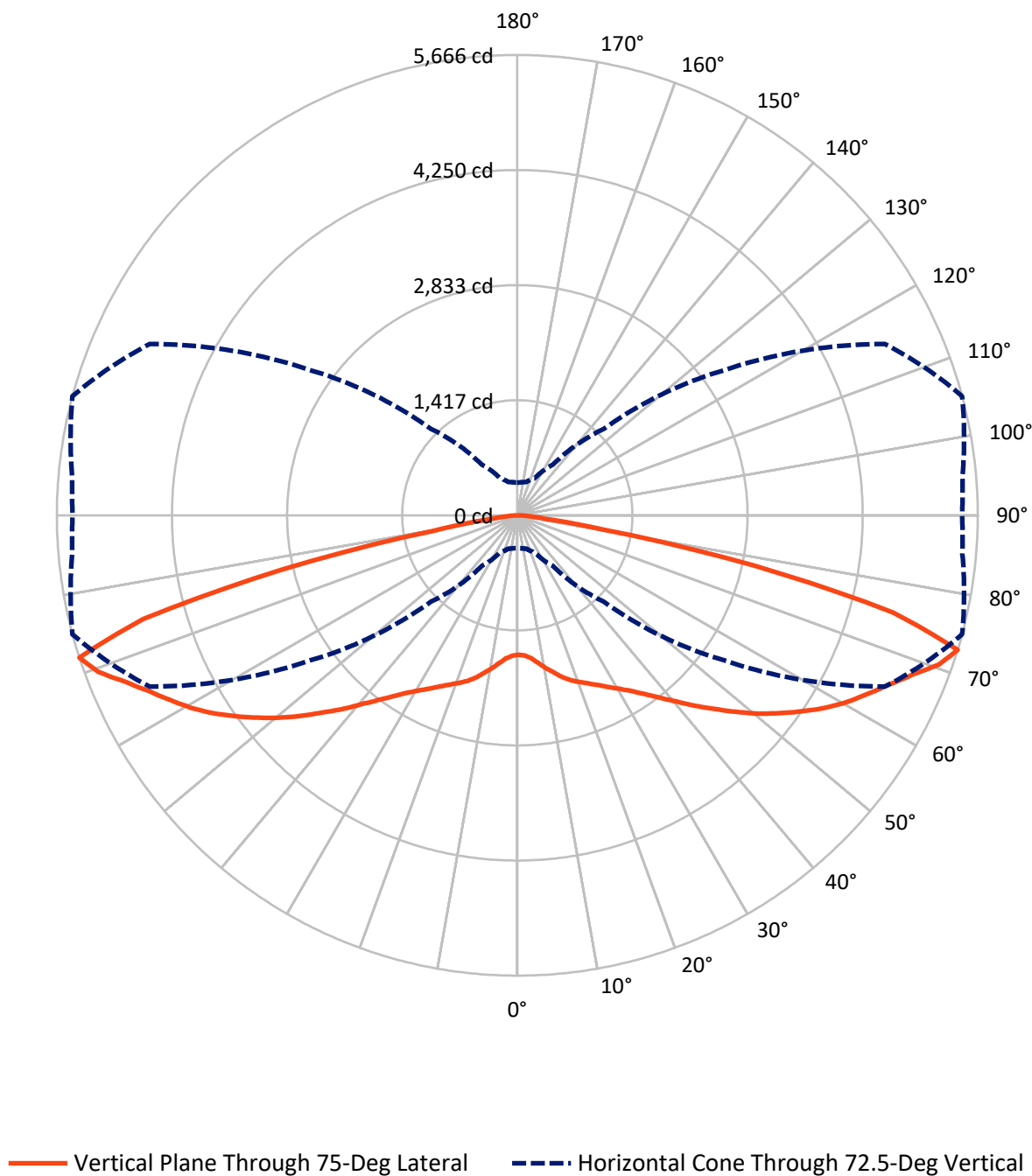
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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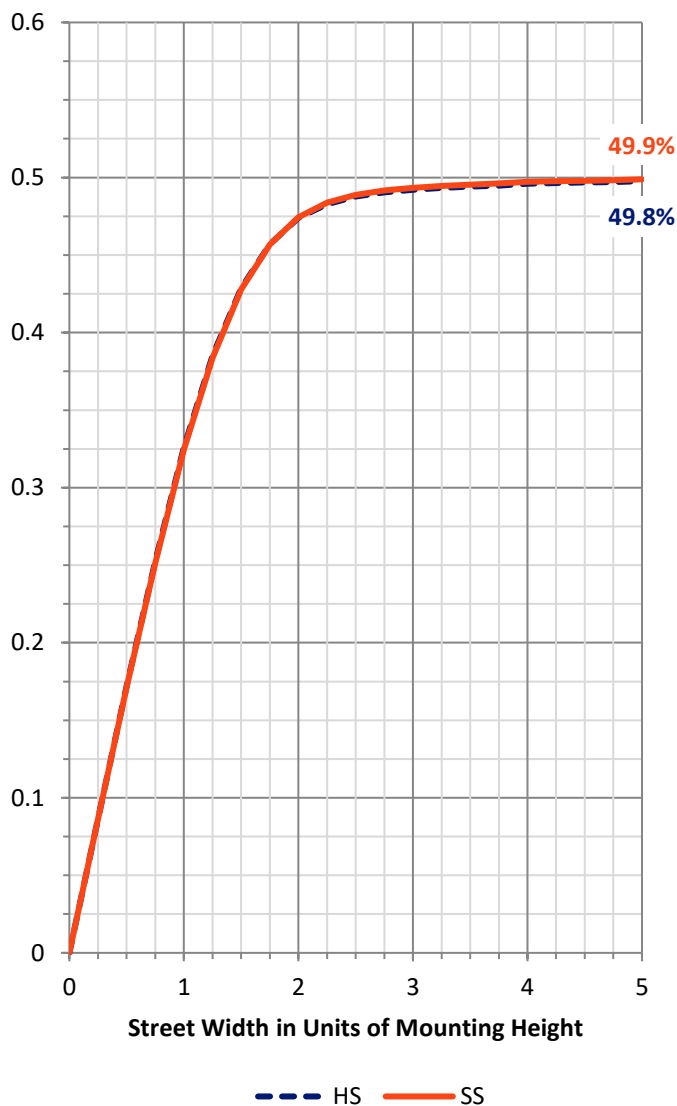
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8011.9	0.0	8011.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8011.9	0.0	8011.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	16023.8	0.0	16023.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.1	1.0
10°-20°	554.6	3.5
20°-30°	1071.6	6.7
30°-40°	1809.4	11.3
40°-50°	2869.5	17.9
50°-60°	3842.0	24.0
60°-70°	3656.3	22.8
70°-80°	1907.9	11.9
80°-90°	144.4	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°	16023.8	100.0
0°-180°	16023.8	100.0

Coefficient of Utilization



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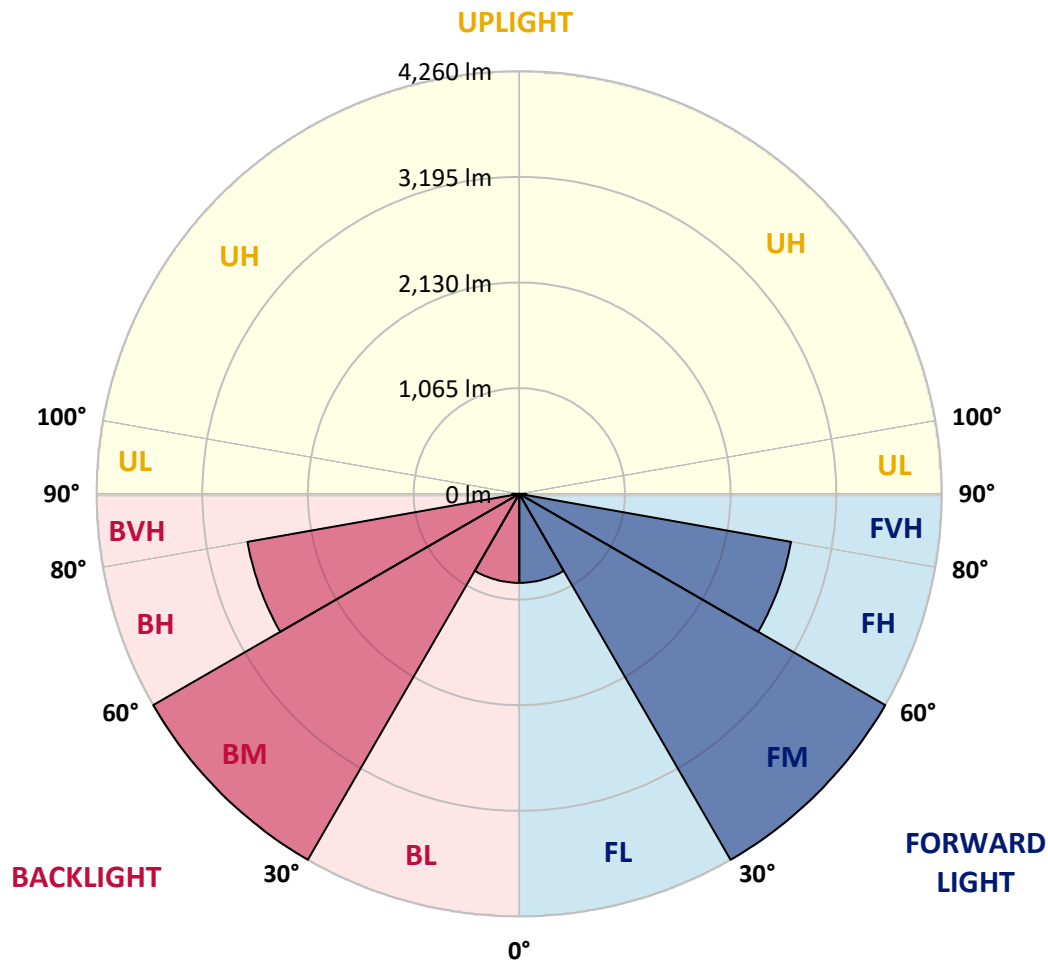
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	897.1	5.6			
FM	(30°-60°)	4260.5	26.6			
FH	(60°-80°)	2782.1	17.4			G2/5000
FVH	(80°-90°)	72.2	0.5			G1/100
BL	(0°-30°)	897.1	5.6	B2/1000		
BM	(30°-60°)	4260.5	26.6	B3/5000		
BH	(60°-80°)	2782.1	17.4	B4/5000		G4/5000
BVH	(80°-90°)	72.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1716.5	1716.5	1716.5	1716.5	1716.5	1716.5	1716.5	1716.5	1716.5	1716.5	1716.5
2.5°	1716.5	1714.8	1716.5	1718.1	1717.3	1717.3	1721.4	1723.8	1728.7	1727.8	1727.1
5°	1705.0	1704.2	1710.7	1718.1	1723.8	1733.6	1745.9	1754.9	1766.4	1768.8	1768.8
7.5°	1699.2	1696.8	1708.3	1721.4	1739.3	1763.9	1787.6	1812.2	1831.8	1838.3	1840.0
10°	1703.3	1704.2	1719.7	1744.2	1772.8	1807.3	1840.8	1882.5	1910.3	1916.9	1923.4
12.5°	1722.2	1720.6	1746.7	1786.0	1825.2	1868.6	1907.8	1953.6	1984.0	1999.5	2006.0
15°	1756.5	1753.3	1790.1	1848.2	1905.5	1956.1	1988.1	2031.4	2066.6	2086.2	2093.6
17.5°	1797.4	1799.1	1847.4	1922.6	1997.8	2055.1	2085.5	2107.5	2134.5	2151.7	2159.9
20°	1869.4	1872.7	1926.7	2015.9	2101.8	2167.3	2191.8	2183.6	2190.9	2204.1	2213.9
22.5°	1966.0	1967.6	2028.2	2124.7	2214.7	2286.7	2303.1	2269.5	2249.1	2258.1	2264.6
25°	2078.1	2088.6	2149.2	2248.2	2340.7	2409.4	2416.7	2366.0	2315.3	2317.7	2321.8
27.5°	2214.7	2224.5	2285.9	2384.0	2478.1	2537.8	2537.0	2469.1	2394.7	2375.8	2381.6
30°	2362.7	2373.4	2436.4	2537.8	2625.3	2677.7	2666.3	2585.3	2479.0	2443.8	2447.8
32.5°	2538.6	2545.2	2609.0	2710.5	2791.5	2833.2	2809.4	2709.7	2577.2	2537.0	2546.8
35°	2751.4	2761.1	2808.6	2904.3	2975.6	3009.9	2969.8	2852.0	2703.1	2658.1	2664.7
37.5°	2994.3	2987.8	3041.8	3126.9	3185.8	3207.1	3152.3	3012.4	2847.1	2793.9	2803.8
40°	3248.0	3244.7	3303.6	3385.5	3417.4	3430.5	3349.4	3196.5	3013.2	2955.9	2974.8
42.5°	3477.8	3475.5	3554.8	3645.6	3684.1	3669.3	3567.0	3391.9	3205.5	3140.0	3156.4
45°	3661.9	3658.6	3756.0	3883.6	3959.0	3934.4	3796.9	3608.0	3400.1	3332.3	3347.8
47.5°	3803.5	3805.1	3909.9	4067.7	4199.4	4208.4	4031.7	3828.1	3614.5	3537.6	3560.5
50°	3905.8	3910.7	4022.7	4197.8	4377.8	4457.2	4271.5	4053.9	3836.2	3749.4	3775.7
52.5°	3931.1	3940.1	4075.1	4280.5	4492.4	4643.7	4515.2	4270.7	4046.5	3963.9	3985.1
55°	3796.1	3814.1	3985.1	4273.9	4562.7	4766.5	4729.7	4490.7	4258.4	4173.3	4197.0
57.5°	3486.0	3511.4	3711.0	4088.2	4547.2	4850.7	4895.7	4701.8	4470.2	4388.4	4407.3
60°	3051.6	3081.9	3273.3	3684.9	4328.0	4881.8	5012.7	4907.2	4665.0	4585.6	4602.8
62.5°	2396.3	2435.6	2664.7	3147.4	3864.9	4736.9	5112.5	5092.8	4840.0	4741.0	4752.5
65°	1537.3	1579.0	1820.3	2390.6	3247.2	4293.5	5143.6	5273.6	5025.0	4886.7	4903.9
67.5°	926.9	945.8	1065.2	1448.9	2373.4	3625.1	4880.1	5474.1	5240.9	5069.1	5082.3
70°	593.2	603.8	675.0	850.9	1341.7	2645.0	4227.3	5511.7	5502.7	5256.5	5254.9
72.5°	402.5	405.8	424.7	504.0	759.2	1503.0	3117.9	4989.8	5666.4	5497.8	5471.7
75°	294.5	312.5	342.8	356.7	431.1	751.0	1786.8	3505.7	4775.5	4849.1	4670.7
77.5°	219.2	220.1	261.8	278.2	307.6	400.1	755.9	1956.9	2964.9	3113.0	2776.7
80°	185.7	175.9	175.1	224.2	231.5	249.5	337.8	675.8	1061.9	643.9	486.8
82.5°	154.7	144.0	130.1	175.1	157.8	153.0	146.5	274.9	337.8	166.0	141.6
85°	108.0	103.1	98.2	114.5	90.0	76.9	70.3	128.4	142.4	70.3	62.2
87.5°	46.6	48.3	49.1	50.7	37.6	27.0	27.0	36.0	36.0	27.8	20.5
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)