

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: P963532

Luminaire Tested: **NAV-SB3A-740-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963532
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-740-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15029.6 lumens
Efficiency: N/A
Efficacy: 177.4 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): 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

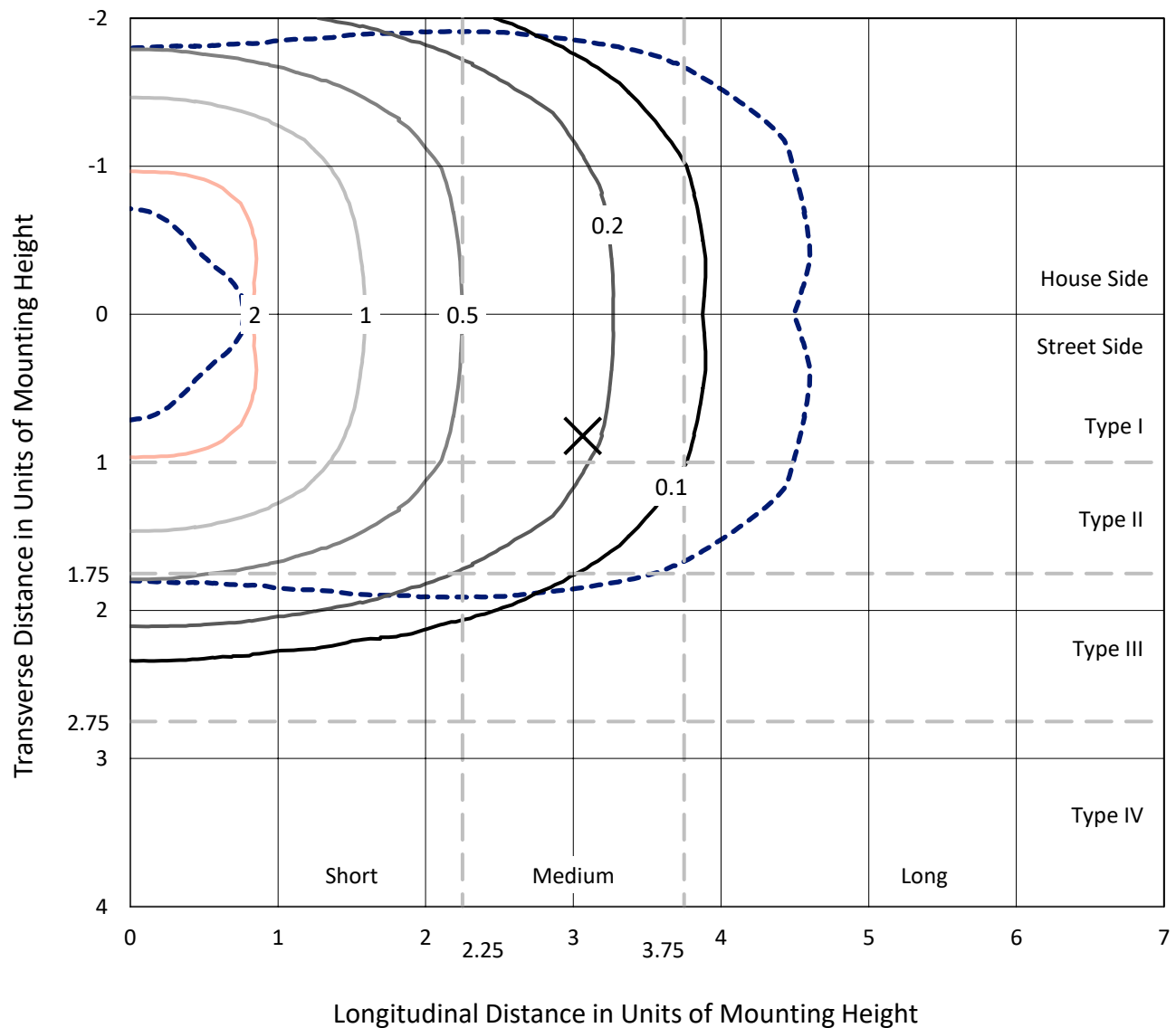


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

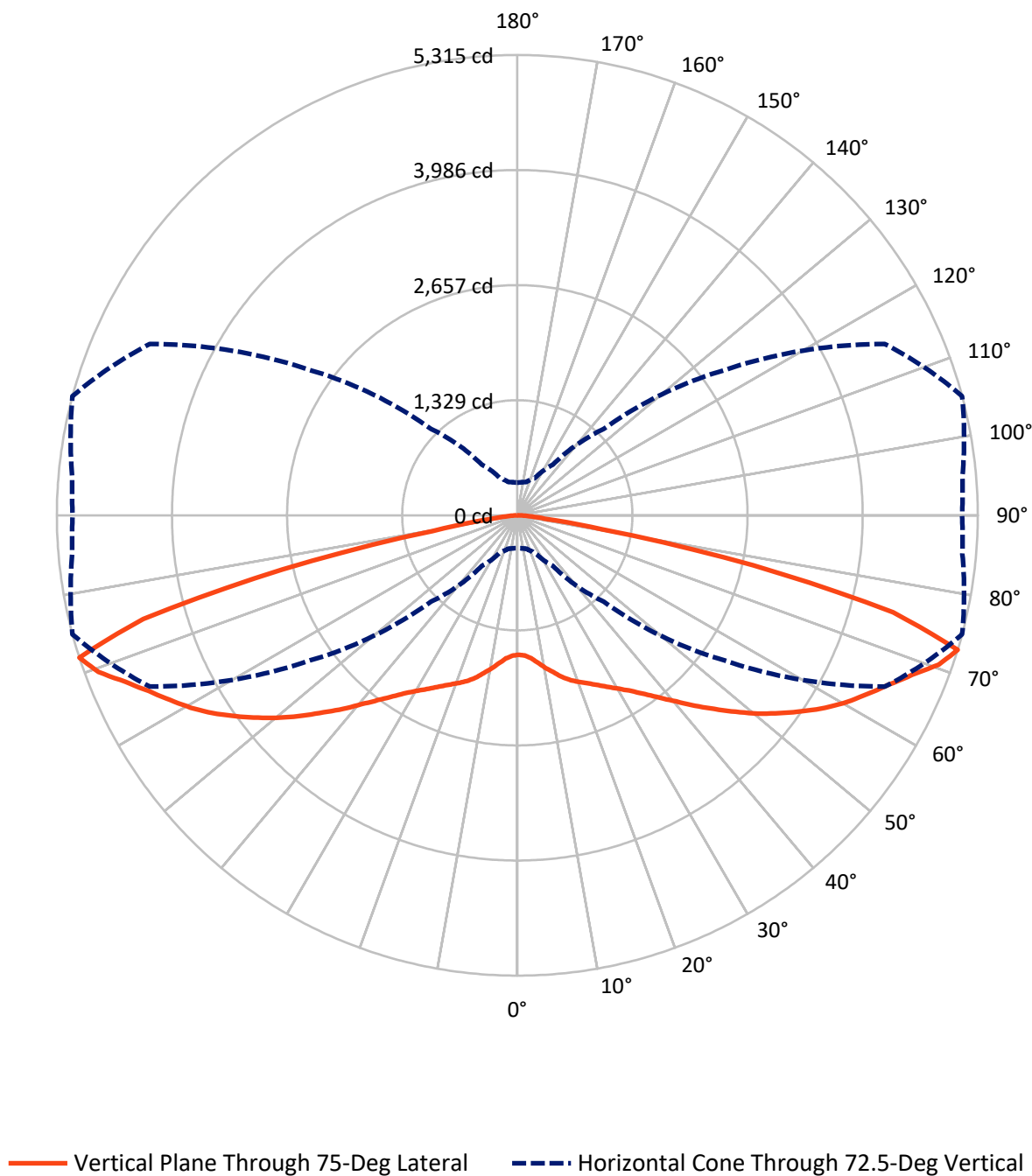


Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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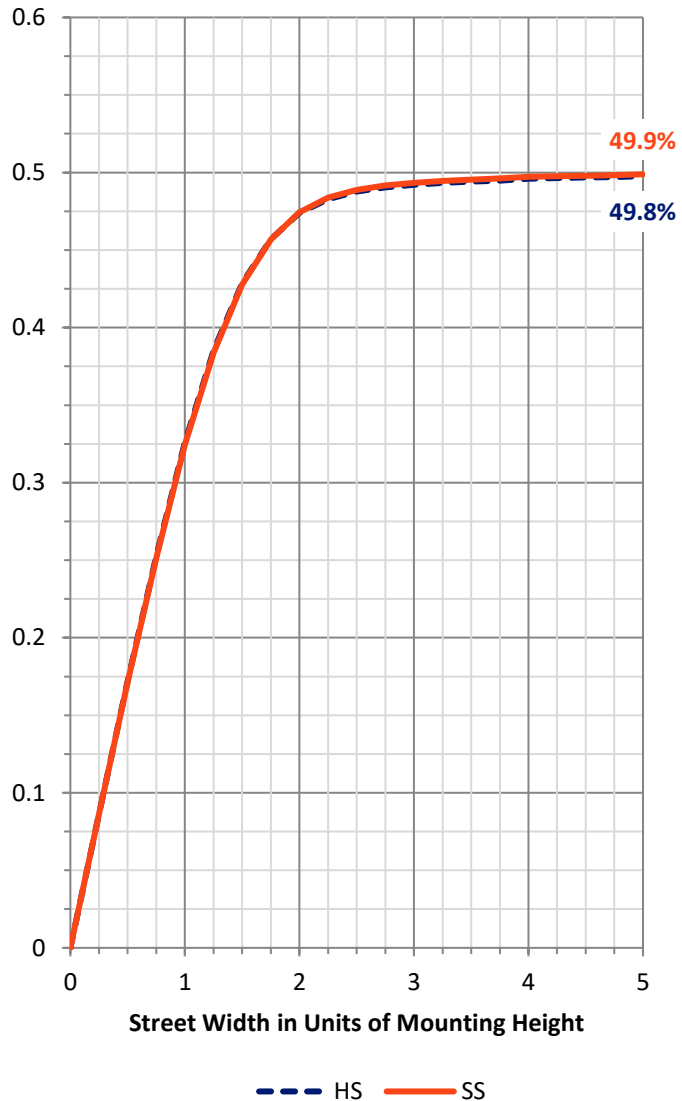
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7514.8	0.0	7514.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7514.8	0.0	7514.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	15029.6	0.0	15029.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.7	1.0
10°-20°	520.2	3.5
20°-30°	1005.1	6.7
30°-40°	1697.1	11.3
40°-50°	2691.5	17.9
50°-60°	3603.6	24.0
60°-70°	3429.4	22.8
70°-80°	1789.5	11.9
80°-90°	135.5	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°	15029.6	100.0
0°-180°	15029.6	100.0

Coefficient of Utilization



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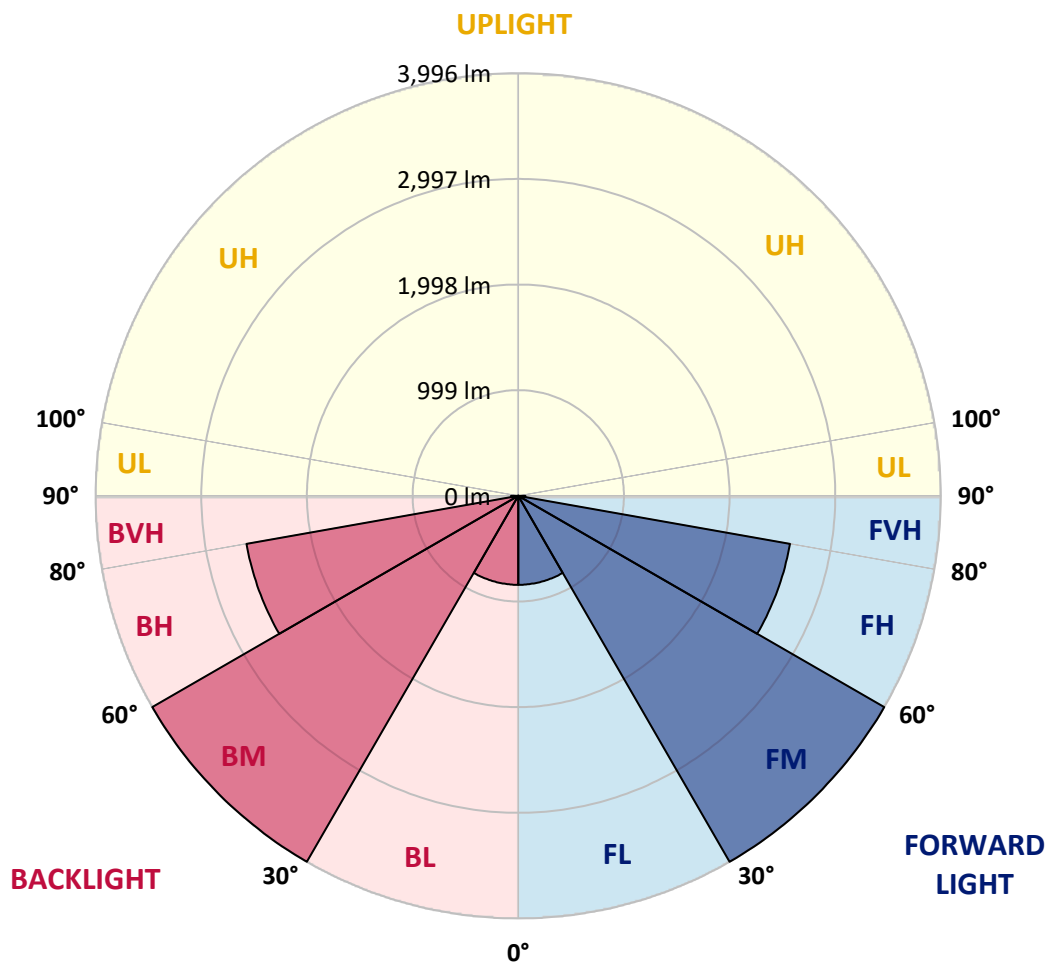
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	841.5	5.6			
FM	(30°-60°)	3996.1	26.6			
FH	(60°-80°)	2609.5	17.4			G2/5000
FVH	(80°-90°)	67.7	0.5			G1/100
BL	(0°-30°)	841.5	5.6	B2/1000		
BM	(30°-60°)	3996.1	26.6	B3/5000		
BH	(60°-80°)	2609.5	17.4	B4/5000		G4/5000
BVH	(80°-90°)	67.7	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°	1610.0	1610.0	1610.0	1610.0	1610.0	1610.0	1610.0	1610.0	1610.0	1610.0	1610.0
2.5°	1610.0	1608.4	1610.0	1611.5	1610.7	1610.7	1614.6	1616.8	1621.4	1620.7	1619.9
5°	1599.2	1598.4	1604.5	1611.5	1616.8	1626.1	1637.5	1646.0	1656.7	1659.1	1659.1
7.5°	1593.8	1591.5	1602.3	1614.6	1631.4	1654.5	1676.7	1699.8	1718.1	1724.3	1725.8
10°	1597.7	1598.4	1613.0	1636.0	1662.9	1695.1	1726.6	1765.7	1791.8	1798.0	1804.1
12.5°	1615.3	1613.8	1638.4	1675.2	1712.0	1752.6	1789.5	1832.5	1860.9	1875.4	1881.6
15°	1647.6	1644.5	1679.0	1733.5	1787.2	1834.7	1864.7	1905.4	1938.4	1956.8	1963.7
17.5°	1685.9	1687.5	1732.8	1803.3	1873.9	1927.6	1956.0	1976.7	2002.0	2018.2	2025.8
20°	1753.5	1756.5	1807.2	1890.8	1971.4	2032.8	2055.7	2048.1	2055.0	2067.3	2076.4
22.5°	1844.0	1845.5	1902.3	1992.8	2077.3	2144.8	2160.2	2128.7	2109.4	2118.0	2124.1
25°	1949.1	1959.1	2015.9	2108.7	2195.4	2259.9	2266.8	2219.2	2171.7	2173.9	2177.8
27.5°	2077.3	2086.5	2144.0	2236.1	2324.4	2380.4	2379.6	2315.9	2246.1	2228.5	2233.8
30°	2216.2	2226.1	2285.2	2380.4	2462.5	2511.6	2500.9	2424.8	2325.1	2292.1	2296.0
32.5°	2381.2	2387.3	2447.1	2542.3	2618.3	2657.4	2635.2	2541.5	2417.3	2379.6	2388.9
35°	2580.6	2589.9	2634.4	2724.1	2790.9	2823.2	2785.5	2675.0	2535.3	2493.2	2499.4
37.5°	2808.6	2802.5	2853.1	2932.8	2988.1	3008.1	2956.7	2825.4	2670.4	2620.5	2629.7
40°	3046.4	3043.3	3098.7	3175.3	3205.3	3217.6	3141.6	2998.1	2826.2	2772.5	2790.2
42.5°	3262.1	3259.8	3334.2	3419.4	3455.5	3441.6	3345.7	3181.5	3006.5	2945.1	2960.5
45°	3434.8	3431.7	3523.0	3642.6	3713.3	3690.3	3561.4	3384.1	3189.2	3125.5	3140.1
47.5°	3567.5	3569.0	3667.2	3815.4	3938.9	3947.4	3781.6	3590.5	3390.2	3318.1	3339.6
50°	3663.5	3668.1	3773.1	3937.3	4106.2	4180.7	4006.4	3802.3	3598.2	3516.9	3541.4
52.5°	3687.2	3695.6	3822.2	4014.8	4213.6	4355.5	4235.1	4005.7	3795.4	3717.9	3737.9
55°	3560.5	3577.5	3737.9	4008.8	4279.6	4470.6	4436.2	4212.0	3994.1	3914.4	3936.6
57.5°	3269.7	3293.5	3480.8	3834.5	4265.0	4549.8	4591.9	4410.1	4192.9	4116.2	4133.8
60°	2862.3	2890.7	3070.3	3456.2	4059.4	4578.9	4701.7	4602.7	4375.5	4301.1	4317.2
62.5°	2247.6	2284.4	2499.4	2952.1	3625.0	4443.1	4795.3	4776.9	4539.7	4446.9	4457.6
65°	1441.9	1481.0	1707.3	2242.3	3045.7	4027.1	4824.5	4946.4	4713.2	4583.5	4599.6
67.5°	869.4	887.0	999.1	1359.0	2226.1	3400.2	4577.3	5134.4	4915.8	4754.6	4766.9
70°	556.4	566.3	633.0	798.1	1258.5	2480.9	3965.0	5169.8	5161.3	4930.4	4928.8
72.5°	377.5	380.6	398.2	472.7	712.1	1409.7	2924.4	4680.2	5314.8	5156.7	5132.2
75°	276.2	293.2	321.5	334.6	404.4	704.5	1676.0	3288.2	4479.1	4548.2	4380.8
77.5°	205.6	206.4	245.6	260.9	288.5	375.3	709.1	1835.6	2780.9	2919.8	2604.4
80°	174.1	165.0	164.2	210.2	217.2	234.0	316.9	633.9	996.0	603.9	456.5
82.5°	145.0	135.1	122.0	164.2	148.1	143.5	137.4	257.8	316.9	155.8	132.7
85°	101.3	96.7	92.0	107.4	84.5	72.2	66.0	120.4	133.6	66.0	58.3
87.5°	43.8	45.3	46.0	47.6	35.3	25.3	25.3	33.7	33.7	26.1	19.2
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)