

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: P964024

Luminaire Tested: **NAV-SB3B-735-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964024
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-SB3B-735-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18146.6 lumens
Efficiency: N/A
Efficacy: 166.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

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

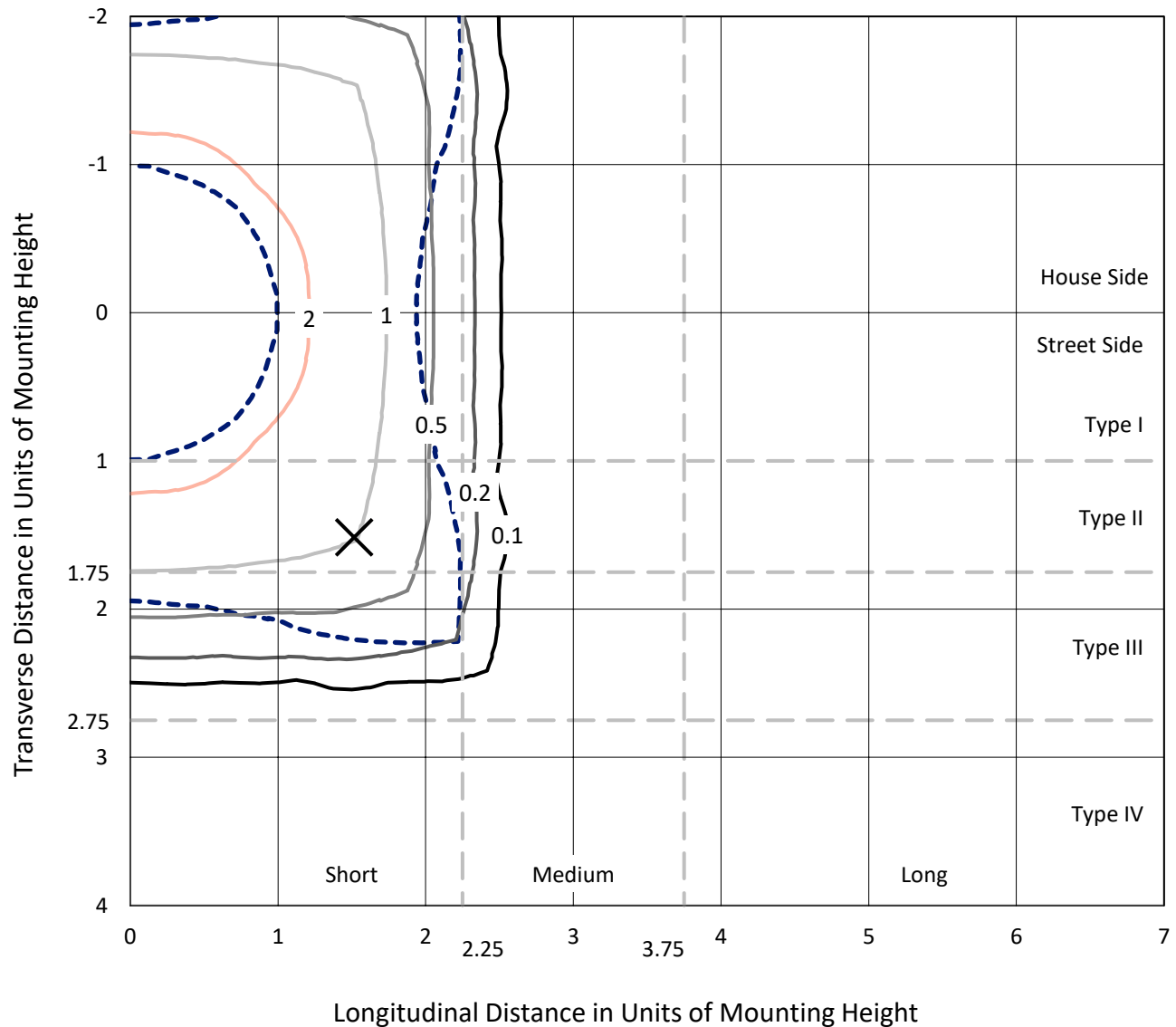


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Iso-Footcandle Lines of Horizontal Illumination

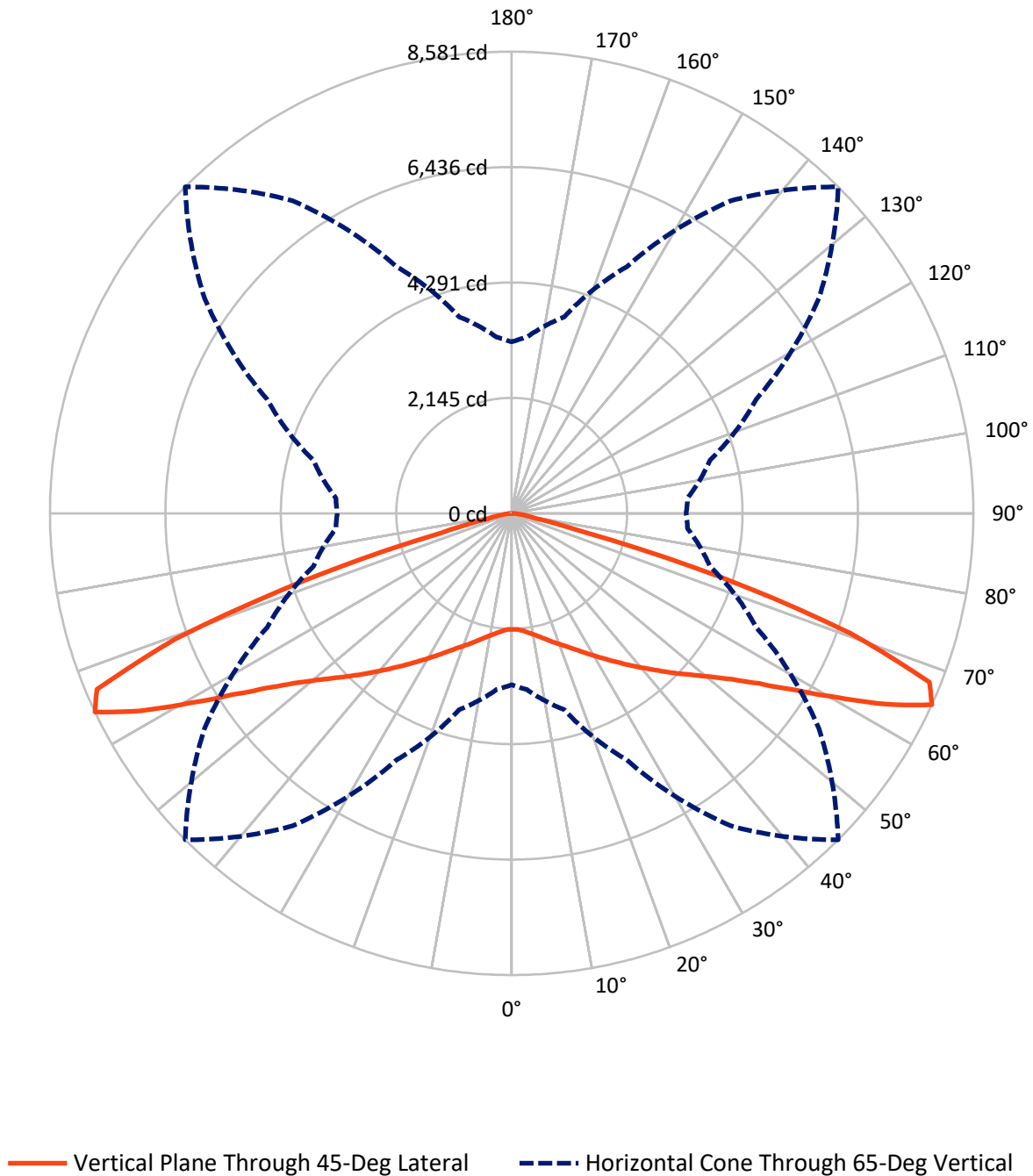
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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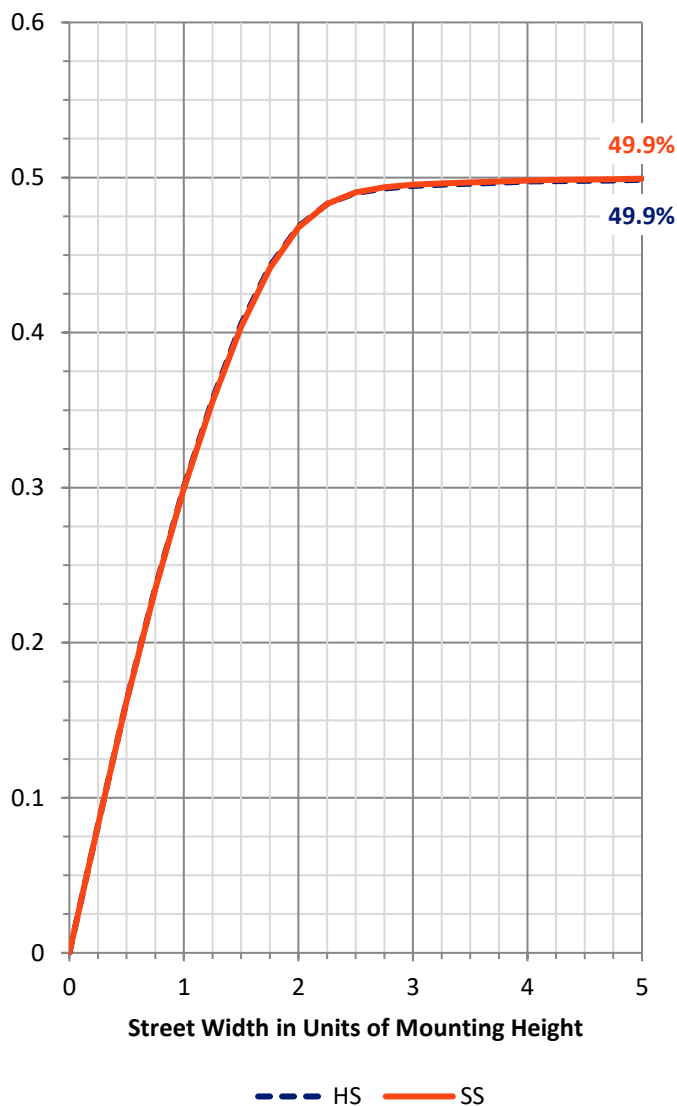
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9073.3	0.0	9073.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9073.3	0.0	9073.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	18146.6	0.0	18146.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.1	1.2
10°-20°	695.5	3.8
20°-30°	1313.1	7.2
30°-40°	2150.2	11.8
40°-50°	3333.9	18.4
50°-60°	4924.9	27.1
60°-70°	4688.0	25.8
70°-80°	756.5	4.2
80°-90°	71.3	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°	18146.6	100.0
0°-180°	18146.6	100.0

Coefficient of Utilization



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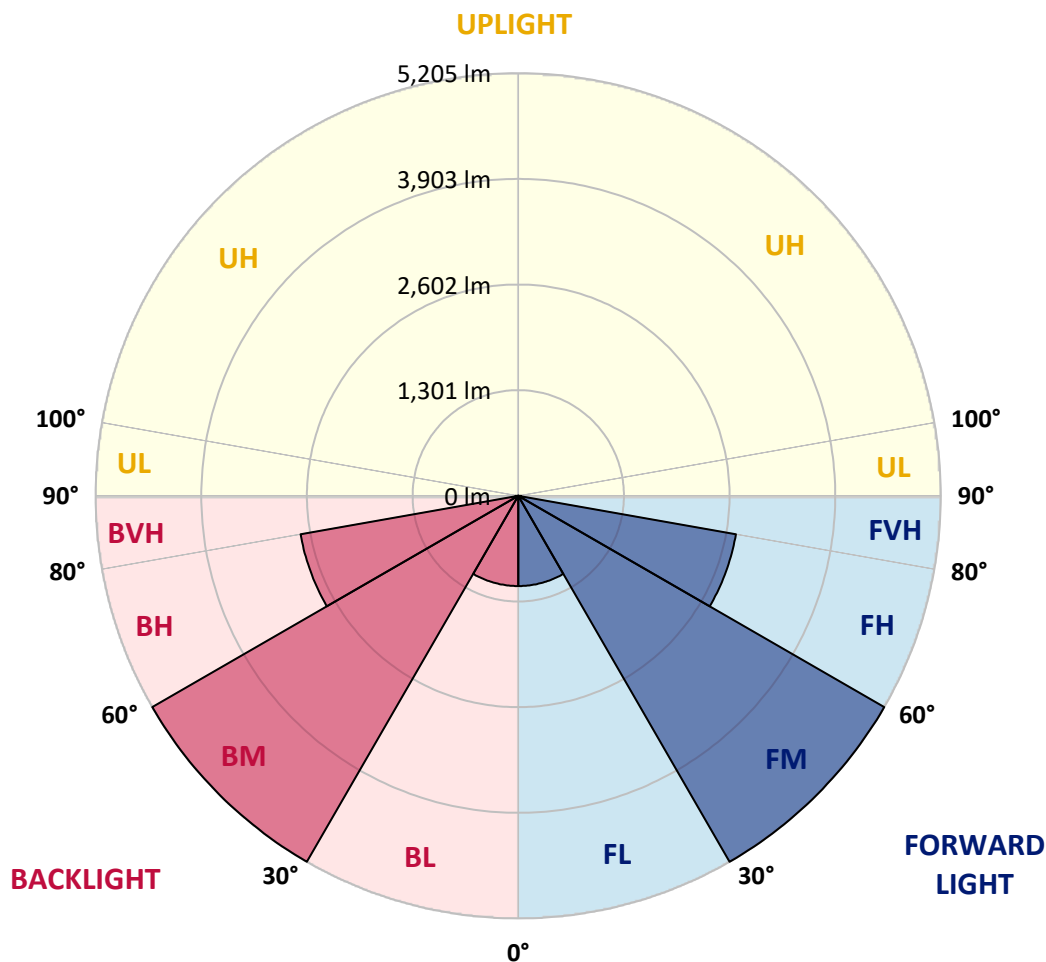
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1110.9	6.1			
FM	(30°-60°)	5204.5	28.7			
FH	(60°-80°)	2722.3	15.0			G2/5000
FVH	(80°-90°)	35.7	0.2			G1/100
BL	(0°-30°)	1110.9	6.1	B3/2500		
BM	(30°-60°)	5204.5	28.7	B4/8500		
BH	(60°-80°)	2722.3	15.0	B4/5000		G2/5000
BVH	(80°-90°)	35.7	0.2			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°	2159.7	2159.7	2159.7	2159.7	2159.7	2159.7	2159.7	2159.7	2159.7	2159.7	2159.7
2.5°	2174.2	2167.0	2172.4	2167.8	2164.2	2160.5	2162.3	2168.7	2171.5	2172.4	2172.4
5°	2203.3	2197.0	2199.6	2199.6	2193.3	2191.4	2192.4	2197.0	2202.4	2202.4	2202.4
7.5°	2250.7	2244.3	2250.7	2247.0	2241.6	2239.7	2238.8	2242.5	2250.7	2250.7	2247.9
10°	2308.0	2300.7	2304.4	2302.6	2296.2	2293.4	2292.5	2298.0	2305.3	2304.4	2302.6
12.5°	2370.8	2362.6	2367.2	2361.7	2360.0	2357.2	2357.2	2356.3	2360.9	2357.2	2359.0
15°	2440.9	2435.5	2437.3	2433.7	2436.4	2434.6	2427.3	2423.6	2425.5	2420.0	2420.9
17.5°	2523.9	2511.0	2517.4	2515.7	2515.7	2519.2	2507.5	2502.8	2506.5	2501.1	2505.6
20°	2619.4	2606.7	2609.4	2605.8	2601.2	2604.8	2590.3	2594.0	2596.6	2593.0	2601.2
22.5°	2724.1	2707.7	2706.8	2708.7	2698.6	2699.5	2689.5	2698.6	2704.1	2694.1	2704.1
25°	2831.6	2814.2	2826.1	2821.5	2808.8	2811.5	2804.2	2813.3	2817.9	2805.1	2819.7
27.5°	2945.3	2933.5	2944.4	2947.2	2931.7	2942.7	2931.7	2939.9	2944.4	2925.4	2939.9
30°	3078.3	3066.5	3076.4	3083.7	3065.6	3082.8	3073.8	3079.2	3080.1	3057.4	3071.0
32.5°	3223.0	3204.9	3230.3	3234.0	3214.0	3234.9	3223.0	3230.3	3234.9	3203.9	3224.9
35°	3399.7	3377.0	3406.1	3401.5	3384.2	3401.5	3390.6	3401.5	3412.4	3375.1	3397.9
37.5°	3590.0	3566.3	3597.2	3589.0	3572.6	3584.5	3578.2	3585.4	3602.7	3562.7	3587.2
40°	3799.4	3770.3	3812.1	3797.5	3782.0	3780.3	3783.9	3788.5	3811.3	3766.6	3781.1
42.5°	4023.3	3992.4	4055.2	4032.5	4010.6	3996.1	4007.9	4017.0	4038.8	3988.8	4015.1
45°	4279.2	4243.7	4325.6	4298.3	4263.7	4233.7	4252.8	4266.5	4298.3	4238.3	4269.2
47.5°	4561.5	4521.4	4608.8	4600.6	4544.1	4478.6	4522.3	4561.5	4585.1	4512.3	4536.9
50°	4837.3	4806.3	4921.0	4931.1	4861.9	4769.9	4830.9	4890.1	4896.5	4800.9	4812.7
52.5°	5095.9	5064.9	5231.5	5294.3	5232.4	5123.2	5187.8	5247.9	5199.7	5075.9	5079.5
55°	5302.5	5277.1	5489.2	5651.2	5672.2	5582.0	5620.3	5618.5	5460.1	5269.7	5276.2
57.5°	5352.7	5349.0	5616.7	5960.0	6178.4	6189.4	6113.8	5920.8	5579.4	5323.5	5307.1
60°	5125.0	5147.8	5515.6	6121.1	6703.8	6945.9	6619.1	6068.3	5443.7	5088.6	5046.7
62.5°	4444.0	4504.1	4947.5	5924.4	7128.1	7816.3	7024.2	5844.2	4886.5	4423.1	4395.7
65°	3184.8	3289.5	3779.4	5055.8	7089.8	8581.2	6966.0	5014.8	3815.8	3281.3	3242.2
67.5°	1444.9	1551.4	1967.5	3461.6	6162.9	8373.5	6148.4	3498.0	2065.9	1556.9	1534.1
70°	523.5	541.7	675.6	1385.7	3938.7	6671.9	4107.1	1395.7	718.3	577.3	570.0
72.5°	316.8	319.6	347.8	496.2	1368.5	4050.7	1426.7	512.6	355.1	315.0	320.5
75°	201.2	199.4	247.6	303.2	485.2	1366.6	508.9	303.2	246.7	224.9	226.7
77.5°	144.7	149.3	177.5	226.7	306.0	463.4	300.4	216.7	177.5	145.7	148.4
80°	108.3	111.1	129.3	176.6	214.8	288.6	191.2	160.2	133.9	91.0	93.8
82.5°	78.3	78.3	84.7	128.3	131.1	155.7	103.8	112.9	88.4	64.7	64.7
85°	46.4	45.5	52.8	76.5	68.3	57.4	47.4	69.2	55.6	40.1	39.2
87.5°	16.4	17.3	16.4	21.8	18.2	15.5	14.6	19.2	15.5	13.6	12.7
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)