

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: P966815

Luminaire Tested: **NAV-SB4C-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966815
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-830-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27962 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

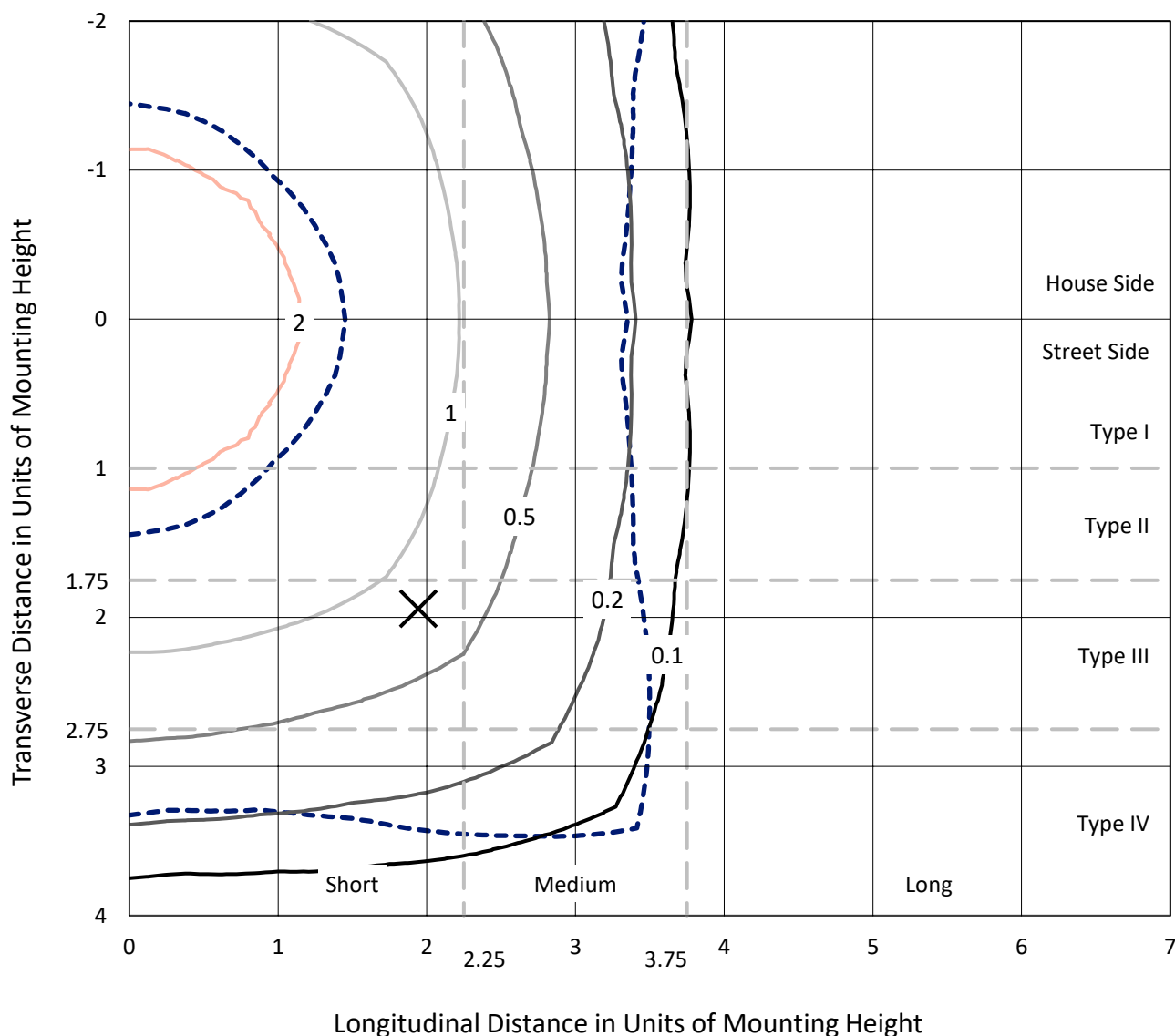
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

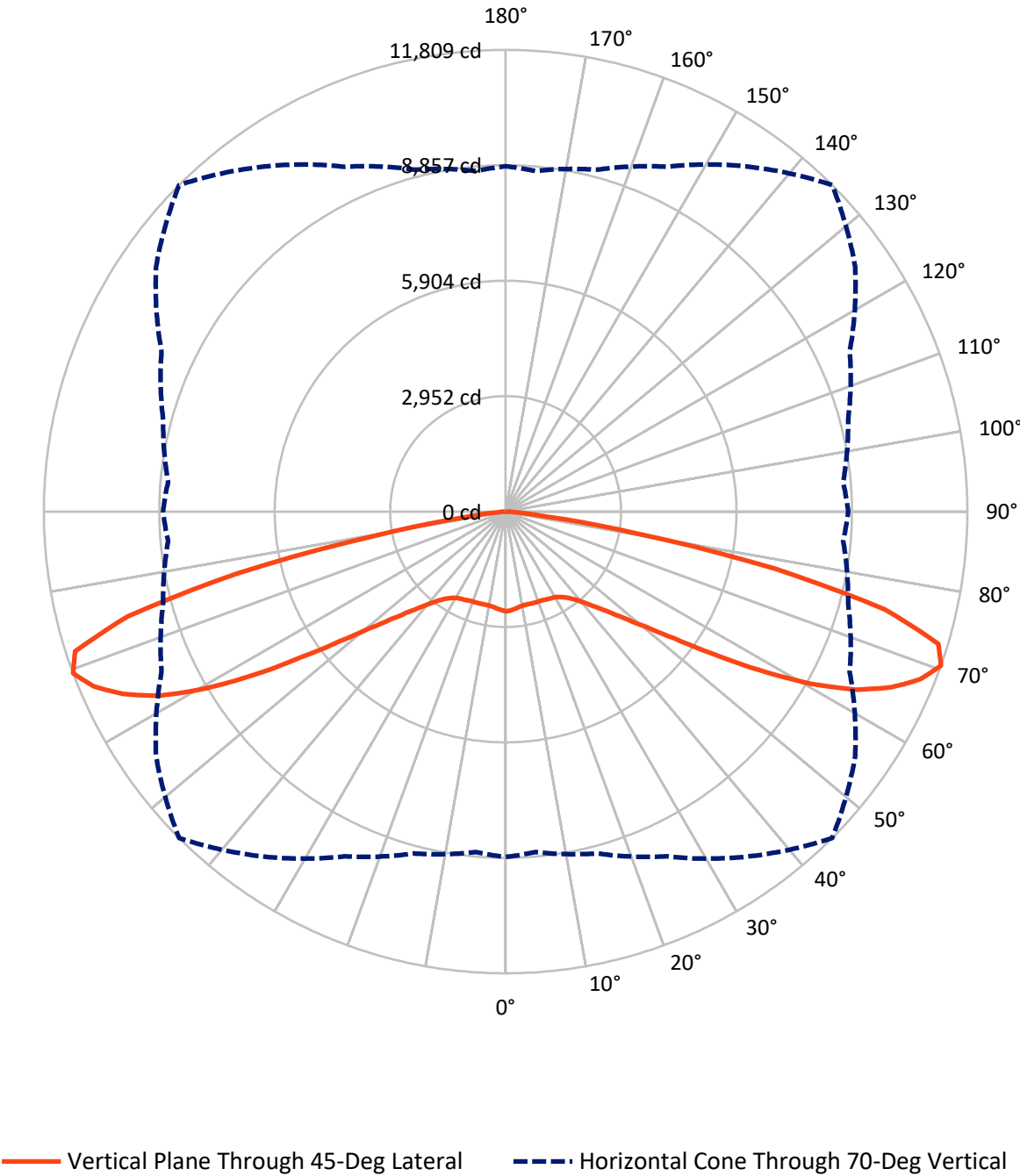
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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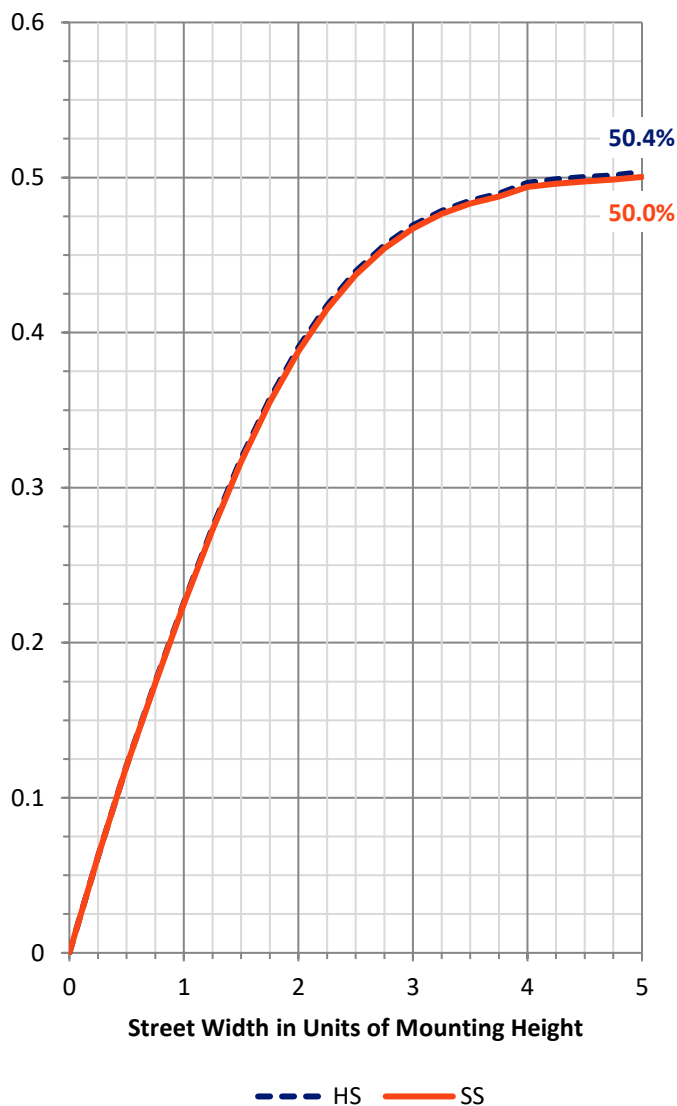
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13981.0	0.0	13981.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13981.0	0.0	13981.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	27962.0	0.0	27962.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.3	0.8
10°-20°	696.7	2.5
20°-30°	1159.4	4.1
30°-40°	1753.4	6.3
40°-50°	2913.7	10.4
50°-60°	5498.0	19.7
60°-70°	9283.6	33.2
70°-80°	6100.3	21.8
80°-90°	319.6	1.1
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°	27962.0	100.0
0°-180°	27962.0	100.0

Coefficient of Utilization



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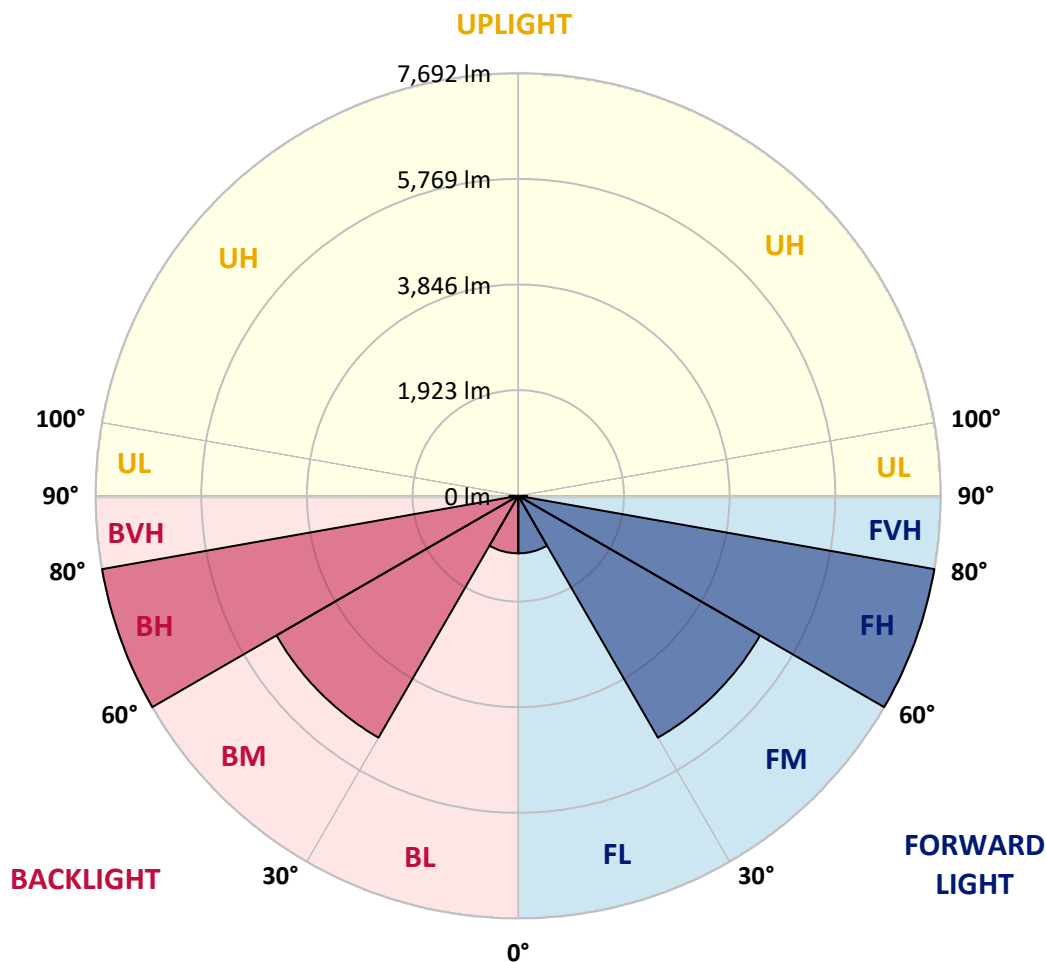
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1046.7	3.7			
FM	(30°-60°)	5082.5	18.2			
FH	(60°-80°)	7692.0	27.5			G4/12000
FVH	(80°-90°)	159.8	0.6			G2/225
BL	(0°-30°)	1046.7	3.7	B3/2500		
BM	(30°-60°)	5082.5	18.2	B4/8500		
BH	(60°-80°)	7692.0	27.5	B5		G4/12000
BVH	(80°-90°)	159.8	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2550.7	2550.7	2550.7	2550.7	2550.7	2550.7	2550.7	2550.7	2550.7	2550.7	2550.7
2.5°	2534.7	2542.0	2539.0	2533.3	2533.3	2528.9	2533.3	2536.2	2540.6	2543.4	2542.0
5°	2501.3	2507.0	2505.6	2501.3	2502.7	2498.3	2501.3	2505.6	2508.6	2510.0	2510.0
7.5°	2472.2	2478.0	2475.2	2467.9	2467.9	2463.5	2464.9	2469.3	2473.6	2475.2	2475.2
10°	2464.9	2470.8	2462.0	2450.4	2446.1	2440.2	2441.7	2446.1	2454.8	2459.2	2459.2
12.5°	2467.9	2472.2	2463.5	2446.1	2441.7	2435.9	2435.9	2440.2	2451.9	2457.6	2459.2
15°	2476.6	2480.9	2467.9	2448.9	2444.6	2440.2	2438.8	2444.6	2457.6	2467.9	2469.3
17.5°	2492.6	2496.9	2476.6	2450.4	2444.6	2446.1	2444.6	2448.9	2469.3	2488.2	2488.2
20°	2507.0	2510.0	2482.3	2450.4	2444.6	2446.1	2444.6	2453.3	2479.5	2505.6	2507.0
22.5°	2511.5	2514.3	2488.2	2460.6	2456.2	2457.6	2456.2	2464.9	2489.6	2515.9	2515.9
25°	2512.9	2517.3	2496.9	2475.2	2482.3	2485.3	2482.3	2483.9	2502.7	2526.0	2524.6
27.5°	2534.7	2540.6	2521.6	2502.7	2507.0	2505.6	2510.0	2514.3	2528.9	2552.1	2546.3
30°	2579.7	2584.1	2568.1	2549.3	2546.3	2536.2	2549.3	2563.7	2579.7	2600.1	2595.7
32.5°	2653.9	2662.6	2642.2	2622.0	2608.8	2603.0	2613.2	2637.9	2659.7	2681.5	2672.8
35°	2777.4	2783.3	2764.3	2726.6	2703.3	2703.3	2712.0	2744.0	2778.9	2806.4	2796.3
37.5°	2951.8	2959.1	2925.7	2880.7	2845.7	2845.7	2857.4	2890.8	2943.1	2982.3	2967.8
40°	3164.1	3174.2	3132.1	3085.6	3052.1	3046.3	3060.9	3098.6	3148.1	3197.5	3181.5
42.5°	3419.8	3431.5	3376.2	3335.6	3309.4	3309.4	3316.6	3351.5	3396.5	3457.6	3453.2
45°	3746.9	3767.2	3691.6	3650.9	3626.2	3632.0	3636.4	3666.9	3707.6	3777.3	3774.5
47.5°	4136.4	4156.7	4076.7	4034.6	4030.2	4057.9	4040.4	4062.2	4084.0	4164.0	4140.7
50°	4578.2	4613.0	4557.9	4554.9	4563.6	4614.5	4573.9	4585.4	4560.7	4611.6	4581.0
52.5°	5118.8	5169.7	5159.5	5177.0	5274.3	5379.0	5285.9	5245.2	5152.3	5168.3	5114.4
55°	5774.3	5851.3	5865.9	5970.5	6191.4	6405.1	6207.4	6043.2	5845.6	5809.2	5752.5
57.5°	6519.9	6580.9	6650.7	6864.3	7277.1	7656.4	7277.1	6913.7	6602.7	6528.6	6476.3
60°	7322.2	7397.7	7464.6	7780.0	8393.3	8926.7	8381.7	7804.7	7393.4	7293.1	7205.9
62.5°	8184.0	8281.4	8327.9	8678.2	9393.2	10029.8	9403.5	8704.3	8248.0	8140.4	8053.2
65°	9011.0	9090.9	9143.3	9516.8	10199.9	10837.9	10246.4	9557.5	9088.1	8947.0	8877.3
67.5°	9396.2	9439.7	9567.7	9990.6	10711.5	11439.6	10833.5	10035.7	9511.0	9263.9	9266.8
70°	8832.2	8743.6	9051.7	9729.0	10772.5	11808.8	10912.0	9708.6	9066.2	8665.1	8761.0
72.5°	6825.1	6672.5	7207.4	8365.7	10074.9	11573.4	10144.6	8431.1	7540.2	6726.3	6928.3
75°	3713.4	3540.5	4278.8	5743.8	8034.4	10031.3	8219.0	5908.0	4764.2	3685.8	3925.6
77.5°	1047.9	982.5	1578.4	2778.9	4832.6	7043.1	5018.5	2840.0	1872.0	1110.4	1233.9
80°	321.2	311.0	421.5	837.1	2052.2	3373.3	1972.2	847.4	536.3	338.7	357.5
82.5°	190.4	174.5	209.3	305.2	523.3	1059.5	508.7	318.3	255.8	171.5	186.0
85°	109.0	101.8	123.5	148.2	175.9	225.3	146.8	151.2	136.6	91.5	95.9
87.5°	45.1	40.7	48.0	46.5	40.7	52.3	39.3	46.5	55.2	36.3	33.4
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)