

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: P969977

Luminaire Tested: **NAV-SB6A-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969977
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-SB6A-830-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25342.1 lumens
Efficiency: N/A
Efficacy: 148.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

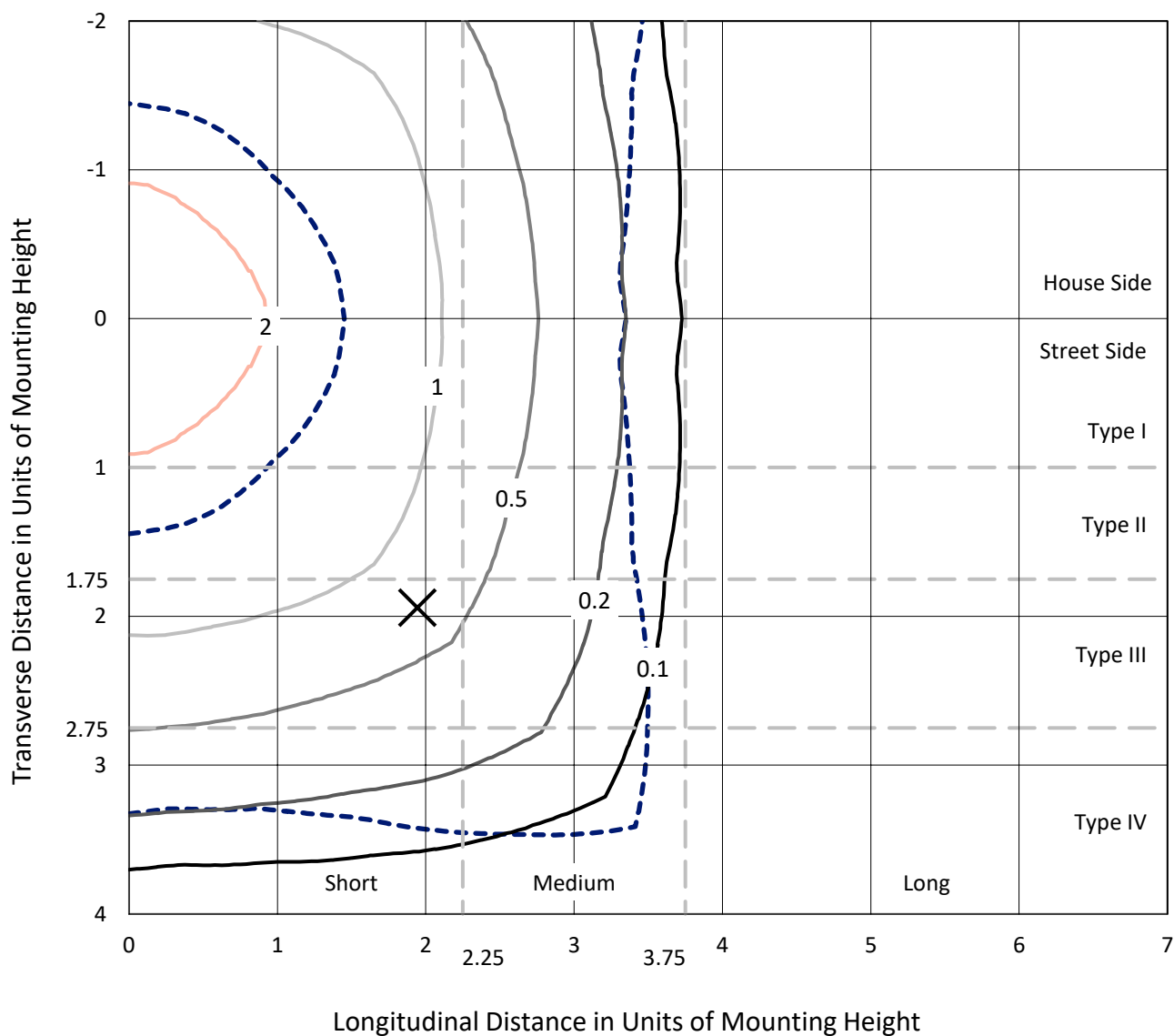
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

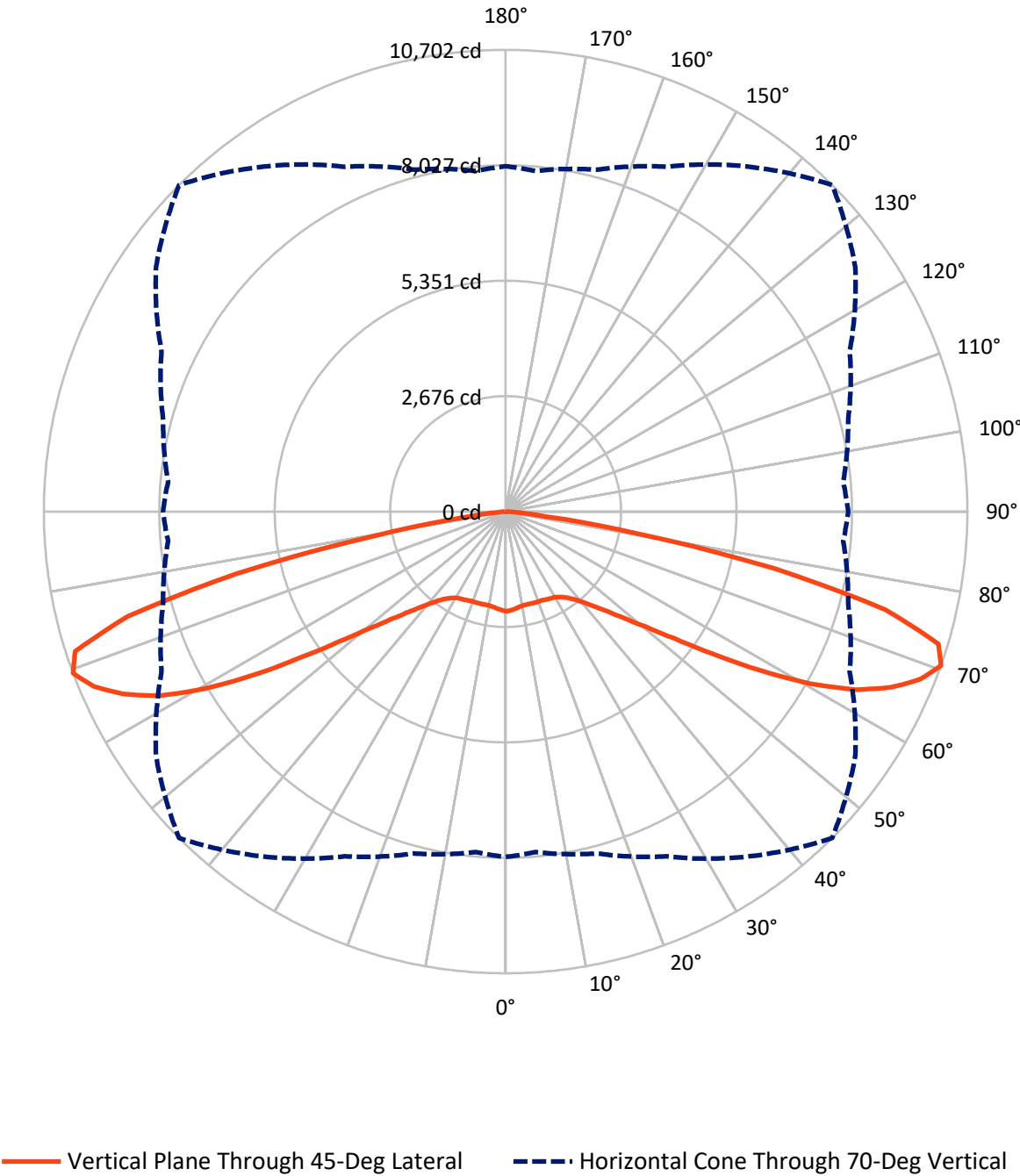
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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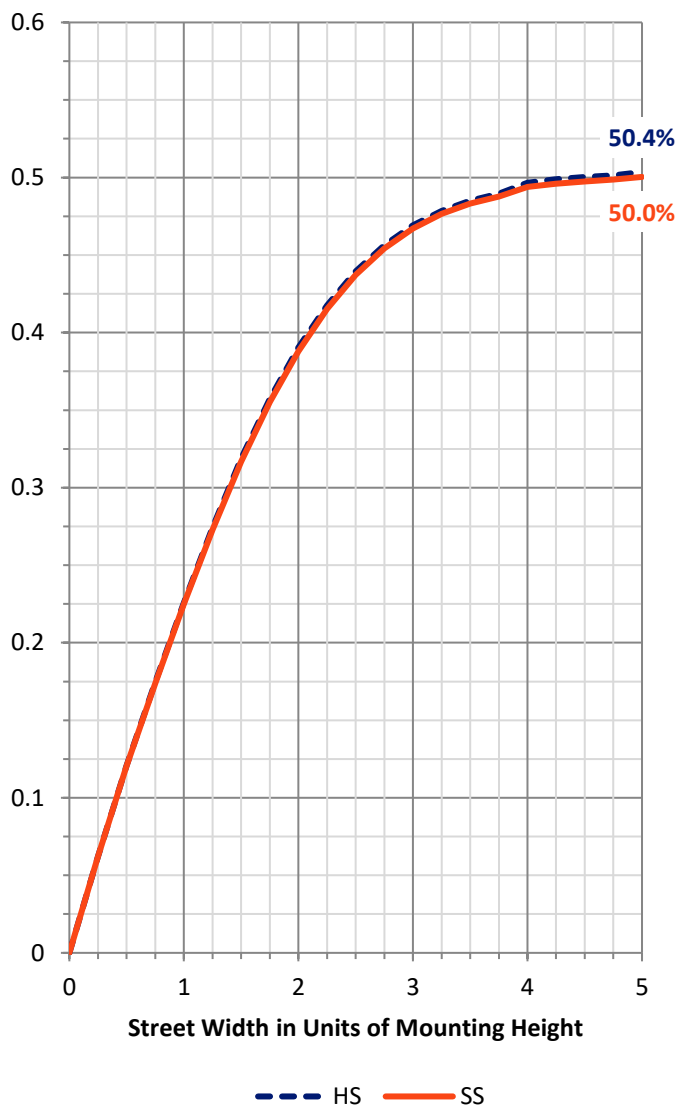
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12671.1	0.0	12671.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12671.1	0.0	12671.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	25342.1	0.0	25342.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.0	0.8
10°-20°	631.4	2.5
20°-30°	1050.8	4.1
30°-40°	1589.1	6.3
40°-50°	2640.7	10.4
50°-60°	4982.9	19.7
60°-70°	8413.8	33.2
70°-80°	5528.7	21.8
80°-90°	289.6	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°	25342.1	100.0
0°-180°	25342.1	100.0

Coefficient of Utilization



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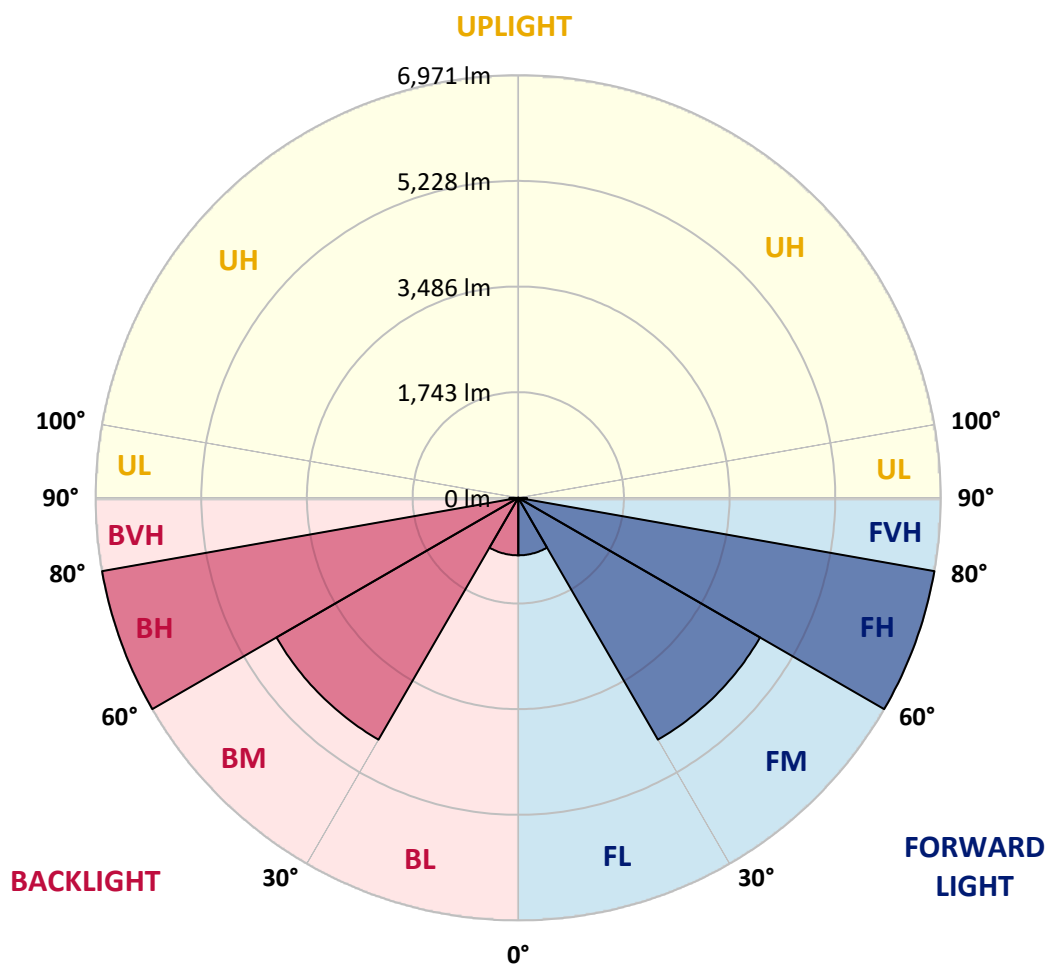
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	948.6	3.7			
FM	(30°-60°)	4606.3	18.2			
FH	(60°-80°)	6971.3	27.5			G3/7500
FVH	(80°-90°)	144.8	0.6			G2/225
BL	(0°-30°)	948.6	3.7	B2/1000		
BM	(30°-60°)	4606.3	18.2	B3/5000		
BH	(60°-80°)	6971.3	27.5	B5		G3/7500
BVH	(80°-90°)	144.8	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-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2311.7	2311.7	2311.7	2311.7	2311.7	2311.7	2311.7	2311.7	2311.7	2311.7	2311.7
2.5°	2297.2	2303.8	2301.1	2295.9	2295.9	2292.0	2295.9	2298.6	2302.5	2305.1	2303.8
5°	2266.9	2272.2	2270.9	2266.9	2268.2	2264.3	2266.9	2270.9	2273.6	2274.8	2274.8
7.5°	2240.5	2245.9	2243.2	2236.7	2236.7	2232.7	2234.0	2238.0	2241.9	2243.2	2243.2
10°	2234.0	2239.2	2231.3	2220.9	2216.9	2211.6	2212.9	2216.9	2224.8	2228.8	2228.8
12.5°	2236.7	2240.5	2232.7	2216.9	2212.9	2207.6	2207.6	2211.6	2222.1	2227.4	2228.8
15°	2244.5	2248.4	2236.7	2219.5	2215.5	2211.6	2210.3	2215.5	2227.4	2236.7	2238.0
17.5°	2259.0	2263.0	2244.5	2220.9	2215.5	2216.9	2215.5	2219.5	2238.0	2255.1	2255.1
20°	2272.2	2274.8	2249.8	2220.9	2215.5	2216.9	2215.5	2223.4	2247.2	2270.9	2272.2
22.5°	2276.1	2278.8	2255.1	2230.1	2226.1	2227.4	2226.1	2234.0	2256.4	2280.1	2280.1
25°	2277.4	2281.4	2263.0	2243.2	2249.8	2252.4	2249.8	2251.1	2268.2	2289.3	2288.0
27.5°	2297.2	2302.5	2285.3	2268.2	2272.2	2270.9	2274.8	2278.8	2292.0	2313.0	2307.8
30°	2338.0	2342.0	2327.5	2310.4	2307.8	2298.6	2310.4	2323.6	2338.0	2356.5	2352.6
32.5°	2405.3	2413.2	2394.7	2376.3	2364.4	2359.1	2368.4	2390.7	2410.5	2430.3	2422.4
35°	2517.2	2522.4	2505.3	2471.1	2450.1	2450.1	2458.0	2486.9	2518.5	2543.5	2534.3
37.5°	2675.2	2681.8	2651.6	2610.7	2579.1	2579.1	2589.7	2619.9	2667.4	2702.9	2689.7
40°	2867.5	2876.8	2838.6	2796.4	2766.2	2760.8	2774.1	2808.3	2853.1	2897.9	2883.4
42.5°	3099.4	3110.0	3059.9	3023.0	2999.3	2999.3	3005.9	3037.5	3078.3	3133.6	3129.7
45°	3395.8	3414.2	3345.7	3308.8	3286.5	3291.7	3295.7	3323.4	3360.3	3423.4	3420.8
47.5°	3748.8	3767.2	3694.8	3656.6	3652.6	3677.7	3661.8	3681.6	3701.4	3773.8	3752.7
50°	4149.2	4180.9	4130.8	4128.2	4136.1	4182.1	4145.3	4155.8	4133.4	4179.5	4151.9
52.5°	4639.3	4685.4	4676.2	4691.9	4780.2	4875.0	4790.7	4753.8	4669.5	4684.0	4635.3
55°	5233.2	5303.1	5316.3	5411.1	5611.4	5805.0	5625.8	5477.0	5297.8	5264.9	5213.6
57.5°	5909.0	5964.4	6027.6	6221.2	6595.3	6939.0	6595.3	6266.0	5984.1	5916.9	5869.5
60°	6636.2	6704.6	6765.2	7051.1	7606.9	8090.3	7596.4	7073.4	6700.6	6609.8	6530.8
62.5°	7417.2	7505.5	7547.6	7865.1	8513.1	9090.1	8522.4	7888.8	7475.2	7377.7	7298.7
65°	8166.7	8239.2	8286.6	8625.1	9244.2	9822.5	9286.4	8662.0	8236.5	8108.8	8045.5
67.5°	8515.8	8555.3	8671.2	9054.5	9707.9	10367.8	9818.5	9095.3	8619.8	8395.9	8398.5
70°	8004.7	7924.4	8203.6	8817.5	9763.2	10702.3	9889.6	8799.0	8216.8	7853.2	7940.2
72.5°	6185.7	6047.3	6532.0	7581.9	9130.9	10488.9	9194.1	7641.2	6833.7	6096.1	6279.2
75°	3365.5	3208.8	3877.9	5205.7	7281.6	9091.4	7448.9	5354.5	4317.8	3340.5	3557.8
77.5°	949.7	890.4	1430.5	2518.5	4379.7	6383.2	4548.3	2573.9	1696.6	1006.3	1118.3
80°	291.1	281.9	382.0	758.7	1859.9	3057.3	1787.5	767.9	486.1	306.9	324.0
82.5°	172.5	158.1	189.7	276.6	474.2	960.2	461.0	288.4	231.9	155.4	168.6
85°	98.8	92.2	111.9	134.4	159.4	204.2	133.0	136.9	123.8	83.0	86.9
87.5°	40.8	36.9	43.5	42.1	36.9	47.5	35.6	42.1	50.0	32.9	30.3
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)