

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: P967745

Luminaire Tested: **NAV-SB5A-740-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967745
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-SB5A-740-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24855.2 lumens
Efficiency: N/A
Efficacy: 175.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

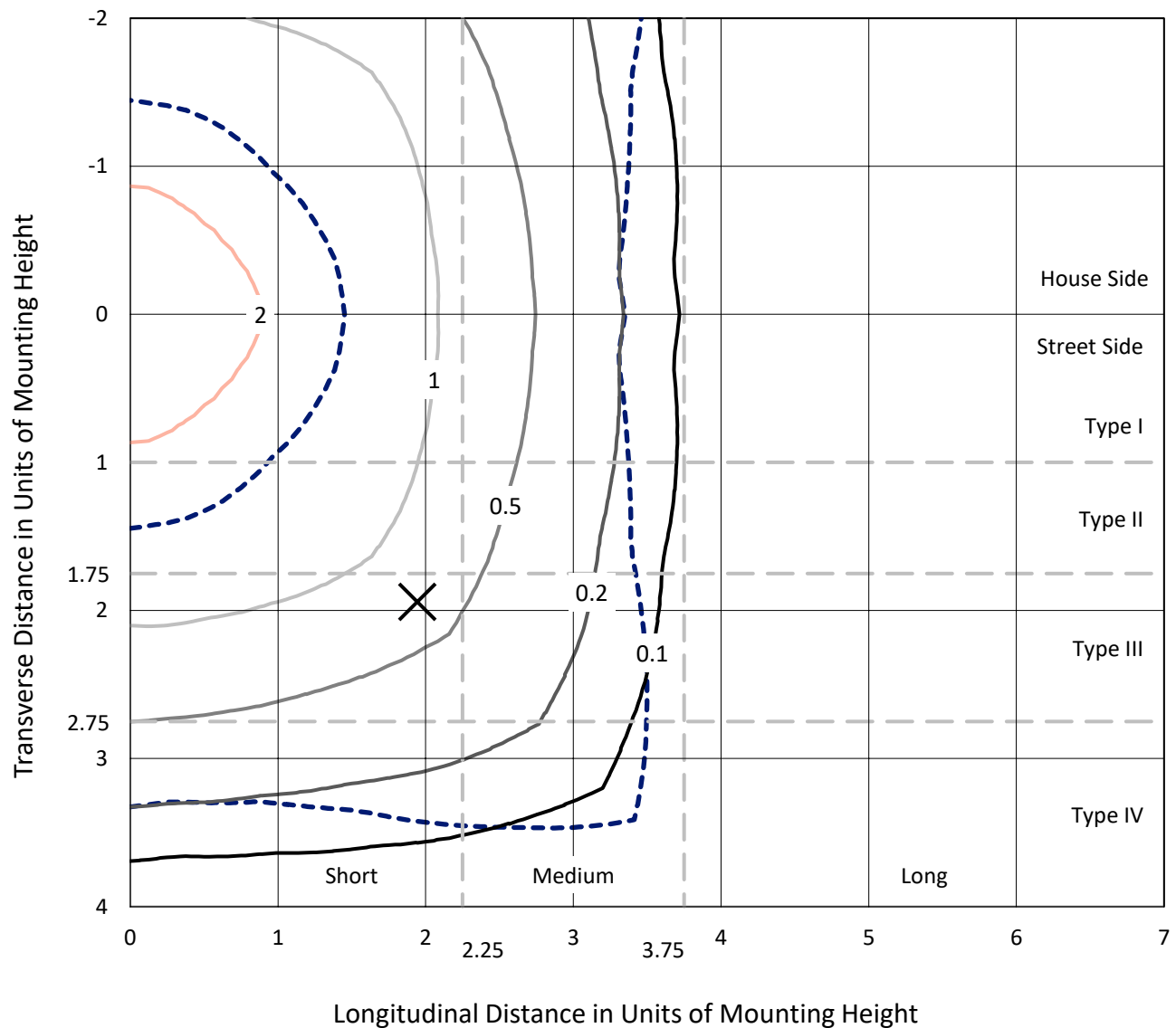
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

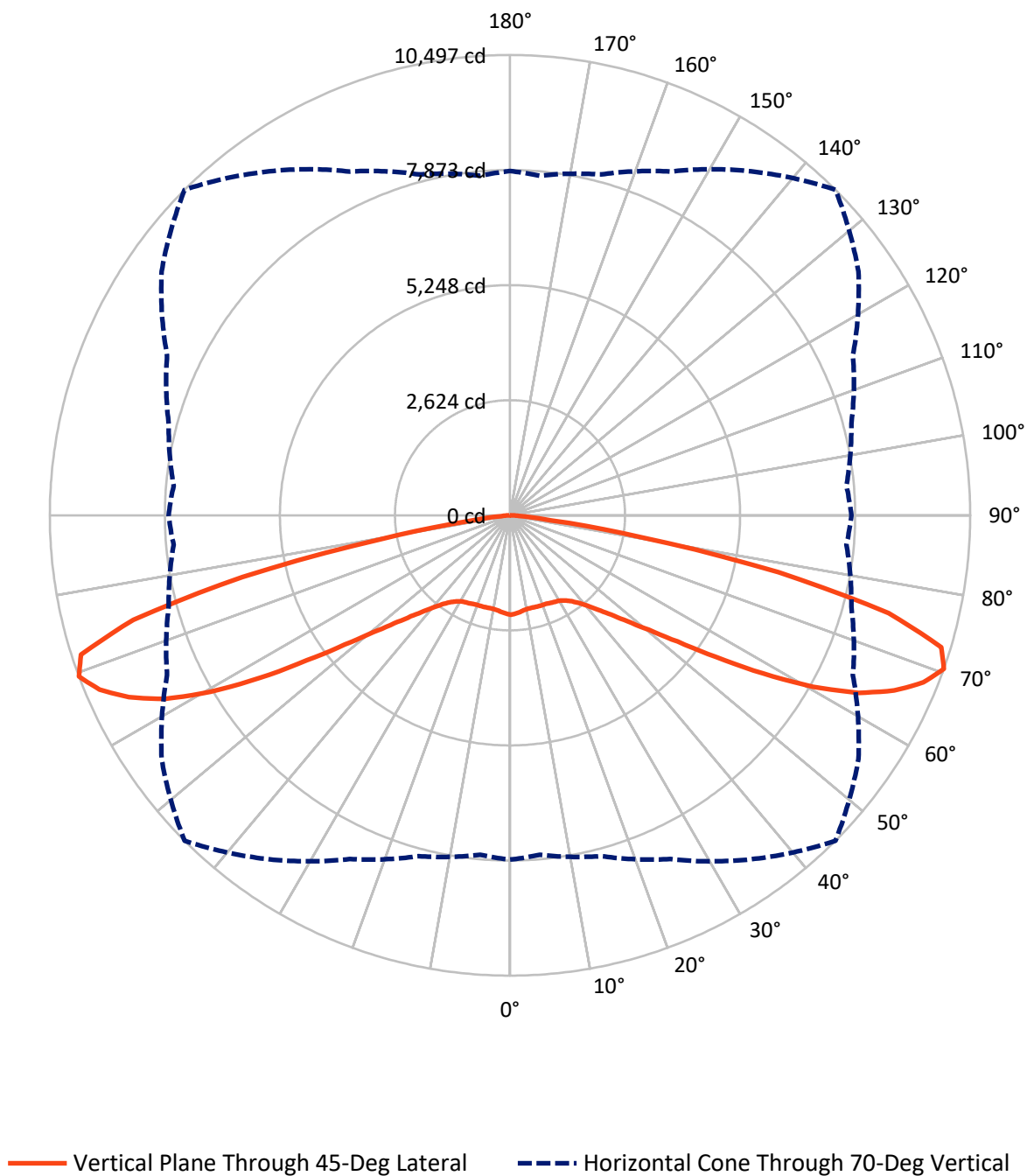
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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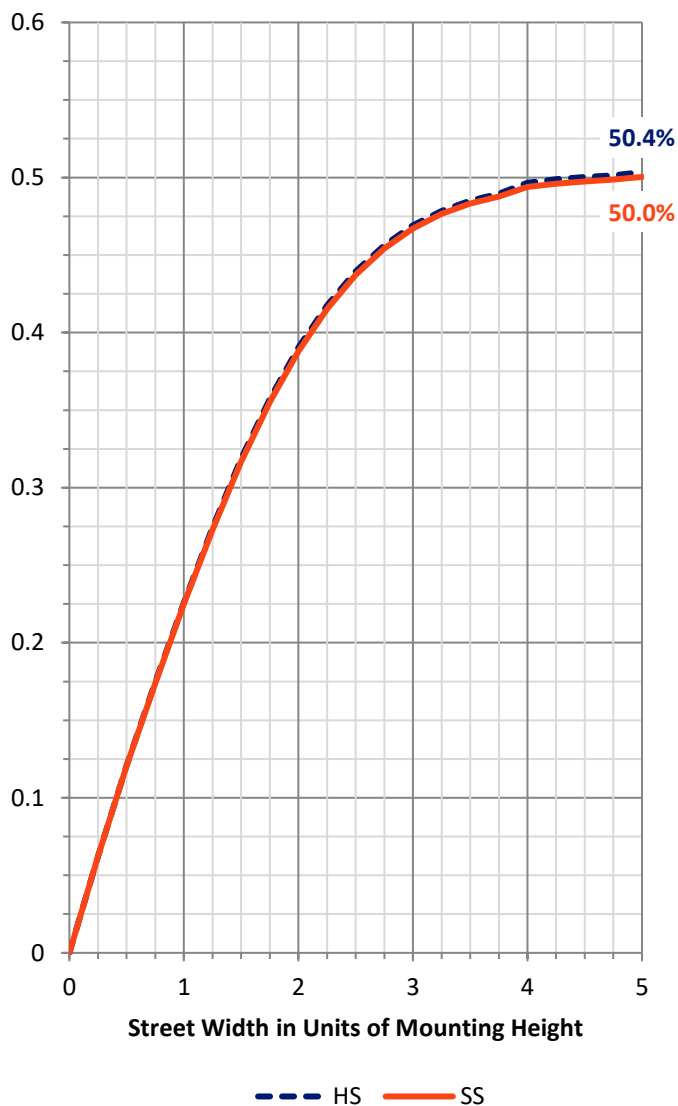
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12427.6	0.0	12427.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12427.6	0.0	12427.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	24855.2	0.0	24855.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.9	0.8
10°-20°	619.3	2.5
20°-30°	1030.6	4.1
30°-40°	1558.6	6.3
40°-50°	2590.0	10.4
50°-60°	4887.2	19.7
60°-70°	8252.2	33.2
70°-80°	5422.5	21.8
80°-90°	284.1	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°	24855.2	100.0
0°-180°	24855.2	100.0

Coefficient of Utilization



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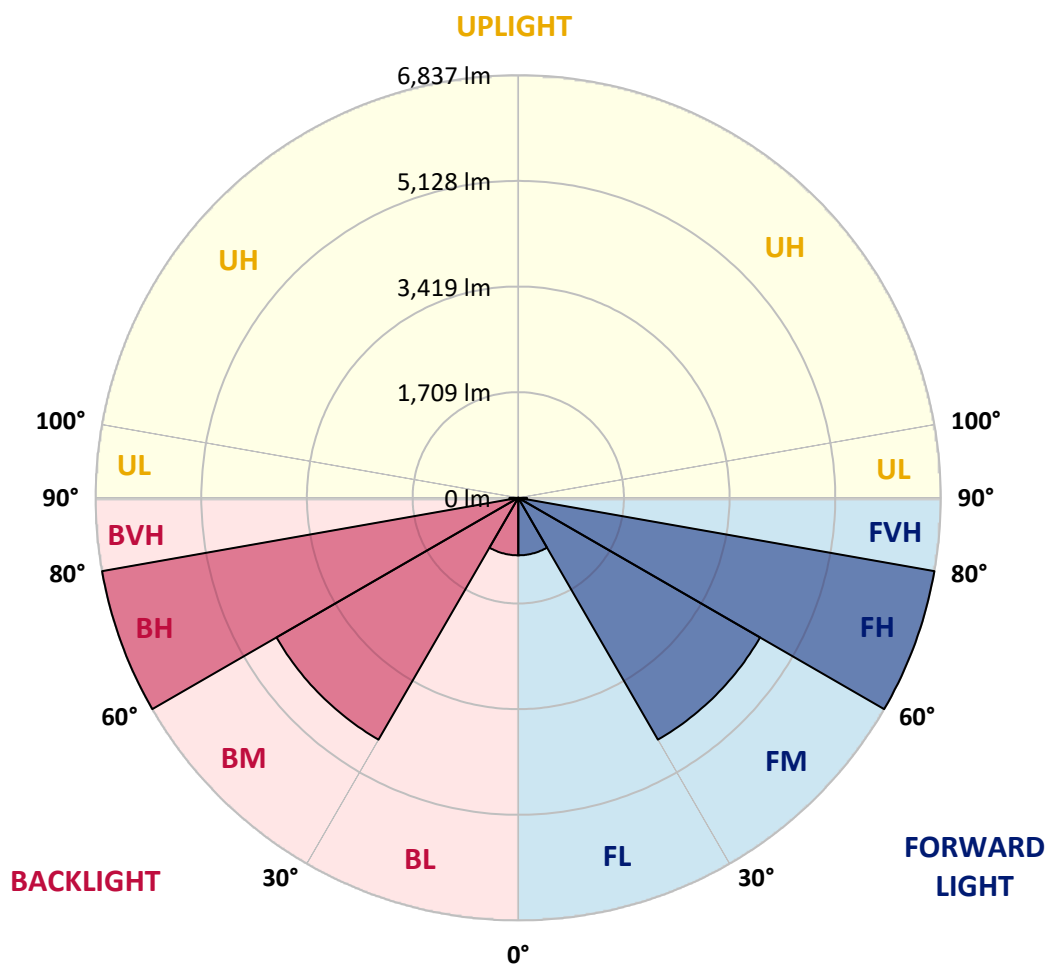
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	930.4	3.7			
FM	(30°-60°)	4517.8	18.2			
FH	(60°-80°)	6837.3	27.5			G3/7500
FVH	(80°-90°)	142.0	0.6			G2/225
BL	(0°-30°)	930.4	3.7	B2/1000		
BM	(30°-60°)	4517.8	18.2	B3/5000		
BH	(60°-80°)	6837.3	27.5	B5		G3/7500
BVH	(80°-90°)	142.0	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°	2267.3	2267.3	2267.3	2267.3	2267.3	2267.3	2267.3	2267.3	2267.3	2267.3	2267.3
2.5°	2253.1	2259.5	2256.9	2251.8	2251.8	2247.9	2251.8	2254.4	2258.3	2260.8	2259.5
5°	2223.3	2228.6	2227.2	2223.3	2224.7	2220.8	2223.3	2227.2	2229.8	2231.1	2231.1
7.5°	2197.5	2202.7	2200.2	2193.7	2193.7	2189.8	2191.0	2194.9	2198.8	2200.2	2200.2
10°	2191.0	2196.3	2188.5	2178.1	2174.2	2169.1	2170.4	2174.2	2182.0	2185.9	2185.9
12.5°	2193.7	2197.5	2189.8	2174.2	2170.4	2165.2	2165.2	2169.1	2179.5	2184.6	2185.9
15°	2201.4	2205.3	2193.7	2176.9	2173.0	2169.1	2167.8	2173.0	2184.6	2193.7	2194.9
17.5°	2215.6	2219.5	2201.4	2178.1	2173.0	2174.2	2173.0	2176.9	2194.9	2211.7	2211.7
20°	2228.6	2231.1	2206.6	2178.1	2173.0	2174.2	2173.0	2180.8	2204.0	2227.2	2228.6
22.5°	2232.4	2235.0	2211.7	2187.2	2183.4	2184.6	2183.4	2191.0	2213.1	2236.2	2236.2
25°	2233.7	2237.6	2219.5	2200.2	2206.6	2209.2	2206.6	2207.8	2224.7	2245.4	2244.0
27.5°	2253.1	2258.3	2241.5	2224.7	2228.6	2227.2	2231.1	2235.0	2247.9	2268.6	2263.4
30°	2293.1	2297.0	2282.8	2266.0	2263.4	2254.4	2266.0	2278.9	2293.1	2311.3	2307.4
32.5°	2359.0	2366.7	2348.7	2330.6	2319.0	2313.8	2322.9	2344.8	2364.2	2383.5	2375.8
35°	2468.8	2474.0	2457.2	2423.6	2402.9	2402.9	2410.7	2439.1	2470.1	2494.6	2485.6
37.5°	2623.9	2630.4	2600.6	2560.6	2529.6	2529.6	2539.8	2569.6	2616.1	2651.0	2638.0
40°	2812.5	2821.5	2784.1	2742.7	2713.0	2707.8	2720.8	2754.4	2798.2	2842.2	2828.0
42.5°	3039.8	3050.2	3001.1	2964.9	2941.6	2941.6	2948.1	2979.2	3019.1	3073.5	3069.6
45°	3330.5	3348.6	3281.4	3245.3	3223.3	3228.4	3232.3	3259.5	3295.7	3357.7	3355.1
47.5°	3676.8	3694.8	3623.8	3586.4	3582.5	3607.0	3591.5	3610.9	3630.2	3701.3	3680.7
50°	4069.6	4100.5	4051.4	4048.9	4056.5	4101.8	4065.7	4076.0	4054.0	4099.2	4072.1
52.5°	4550.1	4595.3	4586.3	4601.7	4688.3	4781.3	4698.7	4662.5	4579.8	4594.0	4546.2
55°	5132.8	5201.3	5214.2	5307.1	5503.5	5693.5	5517.8	5371.7	5196.0	5163.7	5113.4
57.5°	5795.5	5849.8	5911.8	6101.7	6468.6	6805.8	6468.6	6145.6	5869.2	5803.2	5756.7
60°	6508.6	6575.8	6635.2	6915.6	7460.8	7934.9	7450.4	6937.5	6571.9	6482.8	6405.2
62.5°	7274.7	7361.2	7402.7	7713.9	8349.5	8915.4	8358.7	7737.2	7331.6	7236.0	7158.5
65°	8009.9	8080.9	8127.4	8459.4	9066.6	9633.8	9107.9	8495.6	8078.3	7953.0	7891.0
67.5°	8352.2	8391.0	8504.6	8880.6	9521.3	10168.6	9629.9	8920.6	8454.2	8234.6	8237.2
70°	7850.9	7772.1	8046.0	8648.0	9575.7	10496.7	9699.7	8630.0	8059.0	7702.4	7787.6
72.5°	6066.8	5931.2	6406.6	7436.2	8955.5	10287.4	9017.5	7494.4	6702.4	5978.9	6158.5
75°	3300.8	3147.1	3803.4	5105.6	7141.7	8916.8	7305.7	5251.6	4234.9	3276.3	3489.4
77.5°	931.4	873.3	1403.0	2470.1	4295.6	6260.6	4461.0	2524.4	1664.0	987.0	1096.9
80°	285.5	276.4	374.6	744.2	1824.2	2998.5	1753.2	753.2	476.7	301.0	317.9
82.5°	169.2	155.0	186.0	271.3	465.0	941.8	452.1	282.9	227.3	152.4	165.3
85°	96.9	90.4	109.8	131.8	156.3	200.3	130.5	134.4	121.5	81.4	85.3
87.5°	40.1	36.2	42.6	41.3	36.2	46.5	34.8	41.3	49.1	32.3	29.7
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)