

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: P965201

Luminaire Tested: **NAV-SB3D-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965201
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3D-827-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28499.1 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 218.1
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



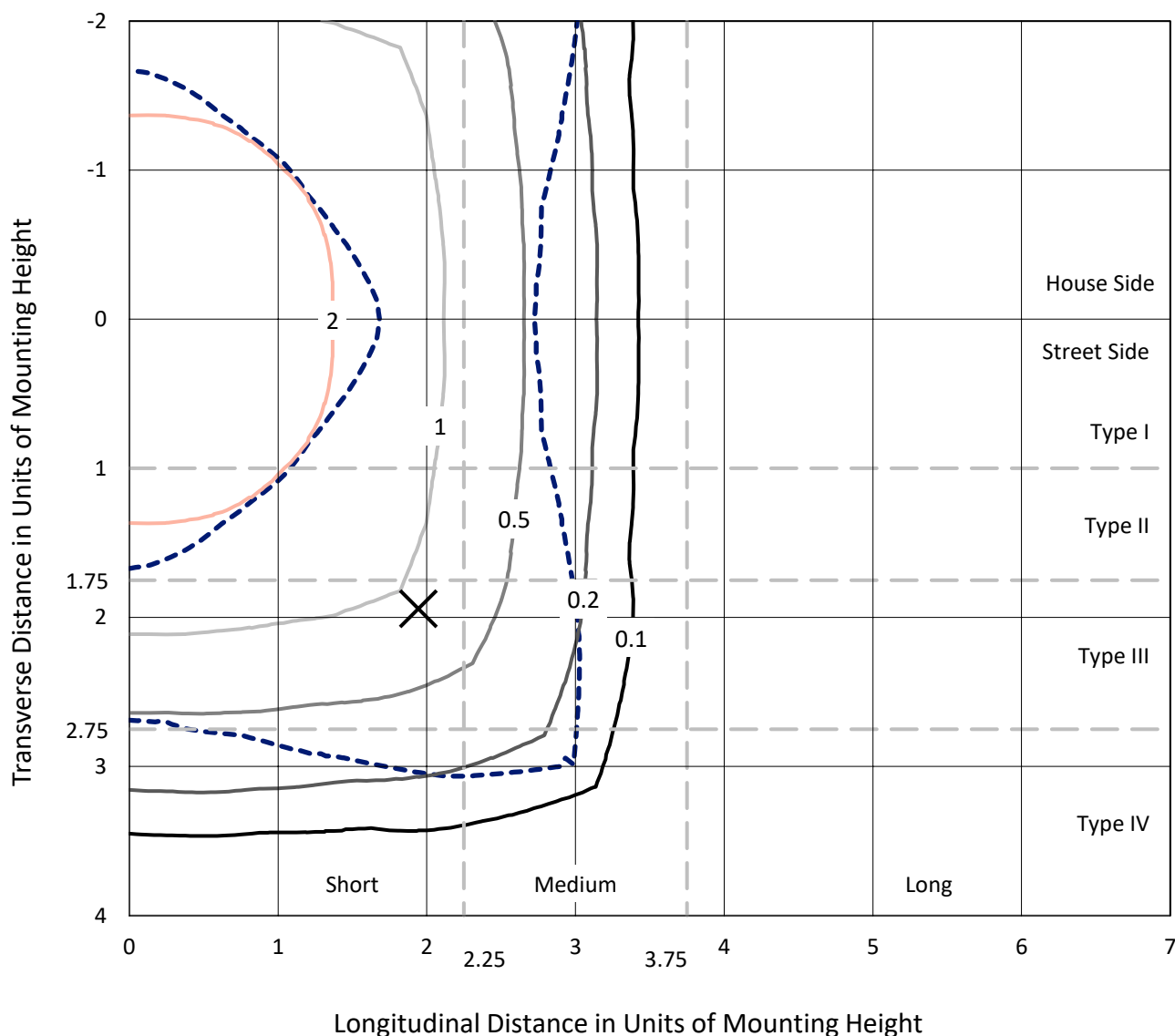
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

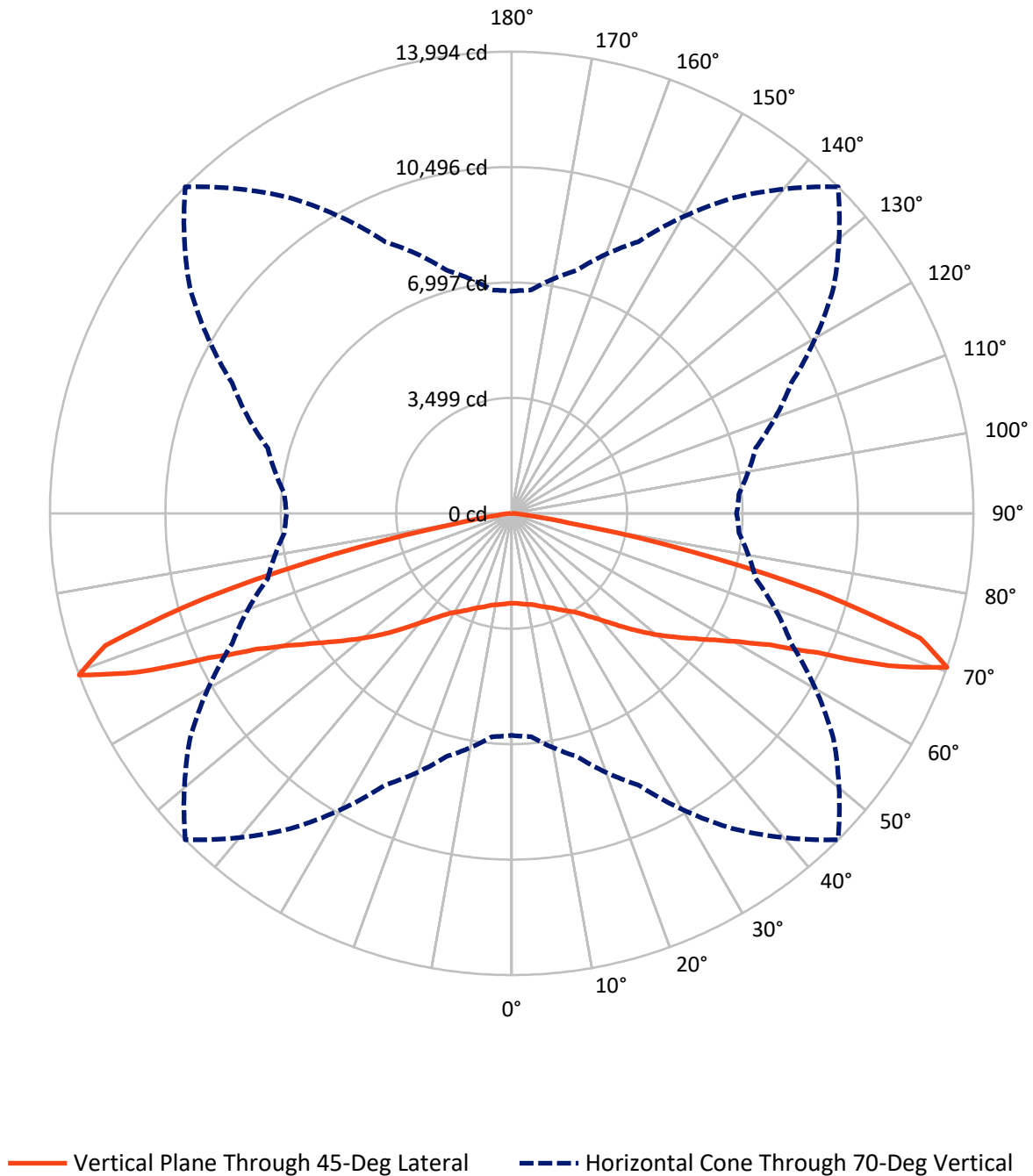


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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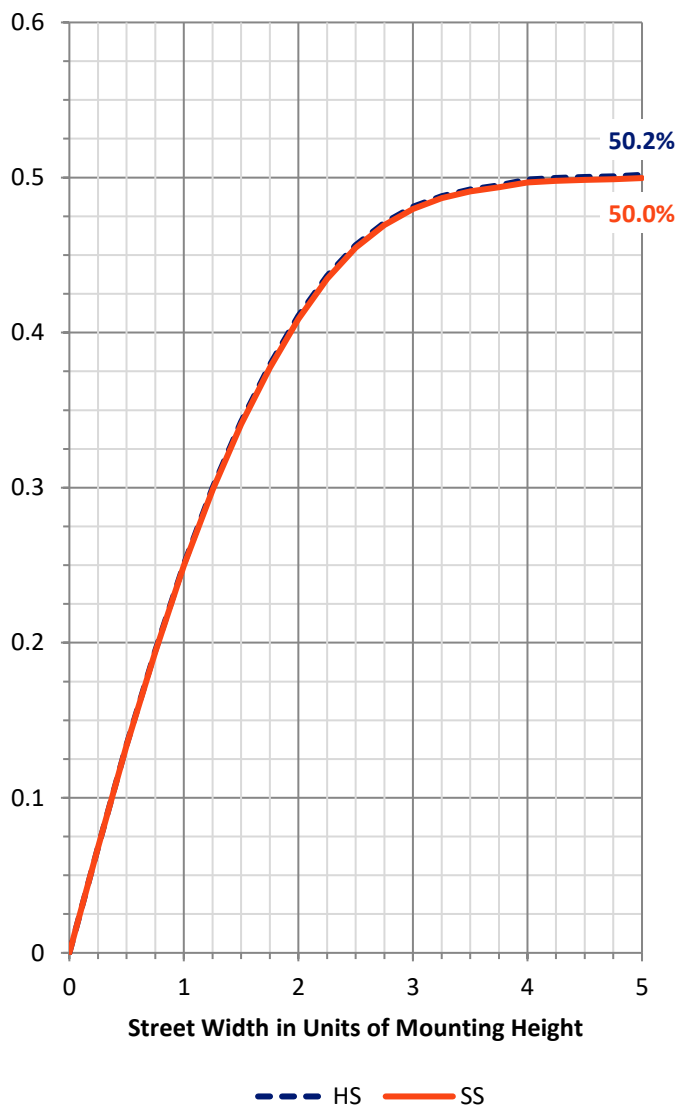
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14249.5	0.0	14249.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14249.5	0.0	14249.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	28499.1	0.0	28499.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.2	0.9
10°-20°	822.4	2.9
20°-30°	1469.7	5.2
30°-40°	2382.4	8.4
40°-50°	3880.5	13.6
50°-60°	5916.5	20.8
60°-70°	8801.8	30.9
70°-80°	4797.3	16.8
80°-90°	163.4	0.6
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°	28499.1	100.0
0°-180°	28499.1	100.0

Coefficient of Utilization



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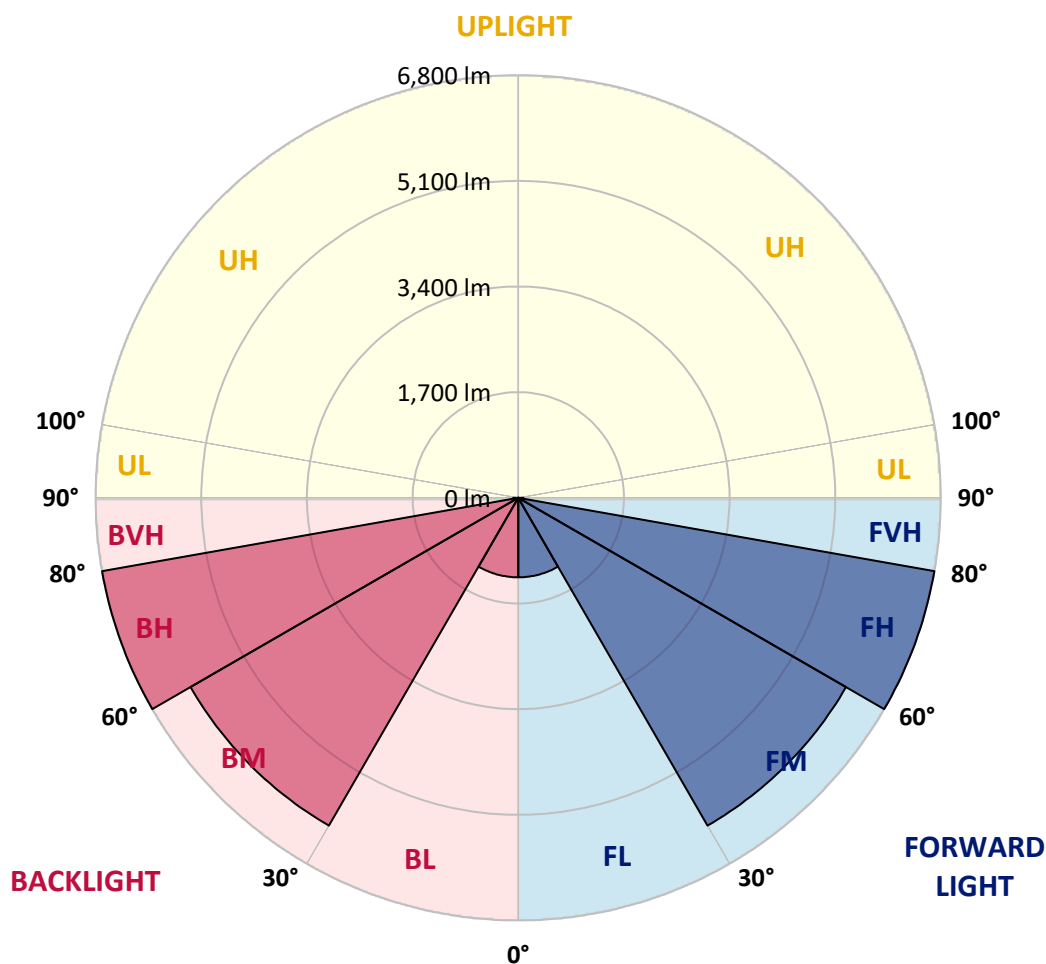
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1278.7	4.5			
FM	(30°-60°)	6089.7	21.4			
FH	(60°-80°)	6799.5	23.9			G3/7500
FVH	(80°-90°)	81.7	0.3			G1/100
BL	(0°-30°)	1278.7	4.5	B3/2500		
BM	(30°-60°)	6089.7	21.4	B4/8500		
BH	(60°-80°)	6799.5	23.9	B5		G3/7500
BVH	(80°-90°)	81.7	0.3			G1/100
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°	2729.9	2729.9	2729.9	2729.9	2729.9	2729.9	2729.9	2729.9	2729.9	2729.9	2729.9
2.5°	2742.8	2745.7	2739.9	2737.1	2734.2	2729.9	2731.3	2738.5	2744.2	2742.8	2744.2
5°	2765.7	2768.5	2764.2	2762.8	2757.1	2755.7	2755.7	2762.8	2767.1	2764.2	2765.7
7.5°	2791.5	2795.7	2788.6	2787.2	2784.3	2781.4	2780.0	2787.2	2791.5	2791.5	2791.5
10°	2815.8	2820.1	2814.3	2810.0	2807.2	2807.2	2804.3	2810.0	2817.2	2815.8	2815.8
12.5°	2841.5	2844.4	2838.6	2835.8	2835.8	2840.1	2835.8	2838.6	2844.4	2841.5	2840.1
15°	2873.0	2874.4	2873.0	2877.3	2884.5	2898.7	2885.9	2883.0	2885.9	2878.7	2878.7
17.5°	2915.9	2918.8	2924.5	2934.5	2944.5	2970.2	2947.4	2940.2	2940.2	2926.0	2926.0
20°	2968.8	2973.1	2981.7	2998.9	3011.8	3036.2	3013.2	3003.1	2998.9	2980.3	2980.3
22.5°	3024.7	3031.8	3044.7	3067.6	3090.5	3113.3	3090.5	3073.3	3060.4	3036.2	3034.7
25°	3089.0	3097.7	3117.6	3154.8	3186.3	3219.2	3192.1	3157.7	3132.0	3097.7	3096.2
27.5°	3180.6	3190.6	3214.9	3260.7	3300.8	3329.4	3303.7	3259.3	3223.5	3182.0	3180.6
30°	3309.4	3319.4	3348.1	3396.6	3423.8	3442.5	3425.2	3390.9	3348.1	3300.8	3300.8
32.5°	3475.4	3488.3	3519.7	3565.5	3571.2	3574.1	3568.3	3551.2	3519.7	3462.4	3463.9
35°	3685.7	3699.9	3735.7	3772.9	3767.2	3772.9	3764.4	3758.7	3735.7	3669.9	3669.9
37.5°	3943.2	3960.4	3997.6	4026.2	4011.8	4004.8	4006.2	4007.6	3994.7	3921.8	3921.8
40°	4242.3	4265.1	4292.3	4322.3	4298.0	4276.6	4290.9	4302.3	4290.9	4216.5	4216.5
42.5°	4549.9	4582.8	4611.4	4654.3	4634.2	4607.1	4627.2	4640.0	4615.7	4535.5	4541.3
45°	4891.8	4923.3	4960.5	5024.9	5010.6	4981.9	5010.6	5013.5	4972.0	4877.5	4887.5
47.5°	5245.2	5278.1	5333.9	5419.8	5414.0	5382.6	5419.8	5399.7	5346.8	5233.8	5226.6
50°	5580.0	5625.8	5711.6	5831.8	5843.3	5804.7	5854.7	5816.1	5727.4	5585.7	5582.9
52.5°	5894.8	5943.5	6079.4	6242.5	6284.0	6233.8	6301.1	6233.8	6100.8	5919.1	5902.0
55°	6225.3	6279.7	6441.3	6654.5	6737.5	6700.3	6763.3	6661.7	6472.9	6252.5	6222.5
57.5°	6614.4	6647.3	6840.5	7093.8	7234.0	7242.5	7271.2	7099.5	6870.6	6620.2	6585.8
60°	7036.5	7082.3	7292.7	7596.0	7817.8	7889.3	7859.3	7604.6	7338.5	7050.9	7005.1
62.5°	7577.4	7627.4	7879.3	8242.7	8593.2	8770.6	8653.4	8284.2	7955.1	7610.3	7550.2
65°	8025.2	8081.0	8536.0	9184.1	9822.3	10178.6	9883.8	9204.2	8611.8	8125.4	8045.2
67.5°	7700.4	7769.1	8483.1	9673.4	11260.2	12323.3	11314.6	9819.4	8659.1	7999.5	7900.7
70°	6730.4	6794.7	7627.4	9082.5	11665.1	13994.4	11908.3	9350.2	7654.6	6916.4	6817.7
72.5°	4468.3	4675.7	5518.5	7264.1	10416.0	12950.0	10519.1	7116.7	5119.4	4458.3	4313.8
75°	1482.3	1648.3	2223.4	3765.8	6976.5	9684.9	6641.7	3332.3	1761.3	1267.6	1198.9
77.5°	373.4	430.7	593.8	1077.4	2782.9	5514.2	2505.3	880.0	479.3	334.8	299.0
80°	181.7	200.3	286.2	359.2	696.8	1752.7	653.8	337.6	226.0	174.6	160.2
82.5°	100.1	101.6	161.6	203.2	259.0	453.6	269.0	197.4	130.2	105.9	105.9
85°	61.5	60.1	85.9	108.8	108.8	161.6	128.7	108.8	74.4	65.8	68.7
87.5°	24.3	24.3	31.5	34.3	30.0	41.5	32.9	35.8	28.6	27.2	28.6
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)