

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: EPHESUS

Report Number: P977472

Luminaire Tested: **EPH-VN-08-E-730-U-5WQ**

Issue Date: 03/26/2025



Test Information

Test Method: LM-79-08
Report Number: P977472
Test Lab: INNOVATION CENTER(G2)
Issue Date: 03/26/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-E-730-U-5WQ
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5WQ
distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63101.1 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 626.8
Input Voltage (V): 120
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: 28.75 FT

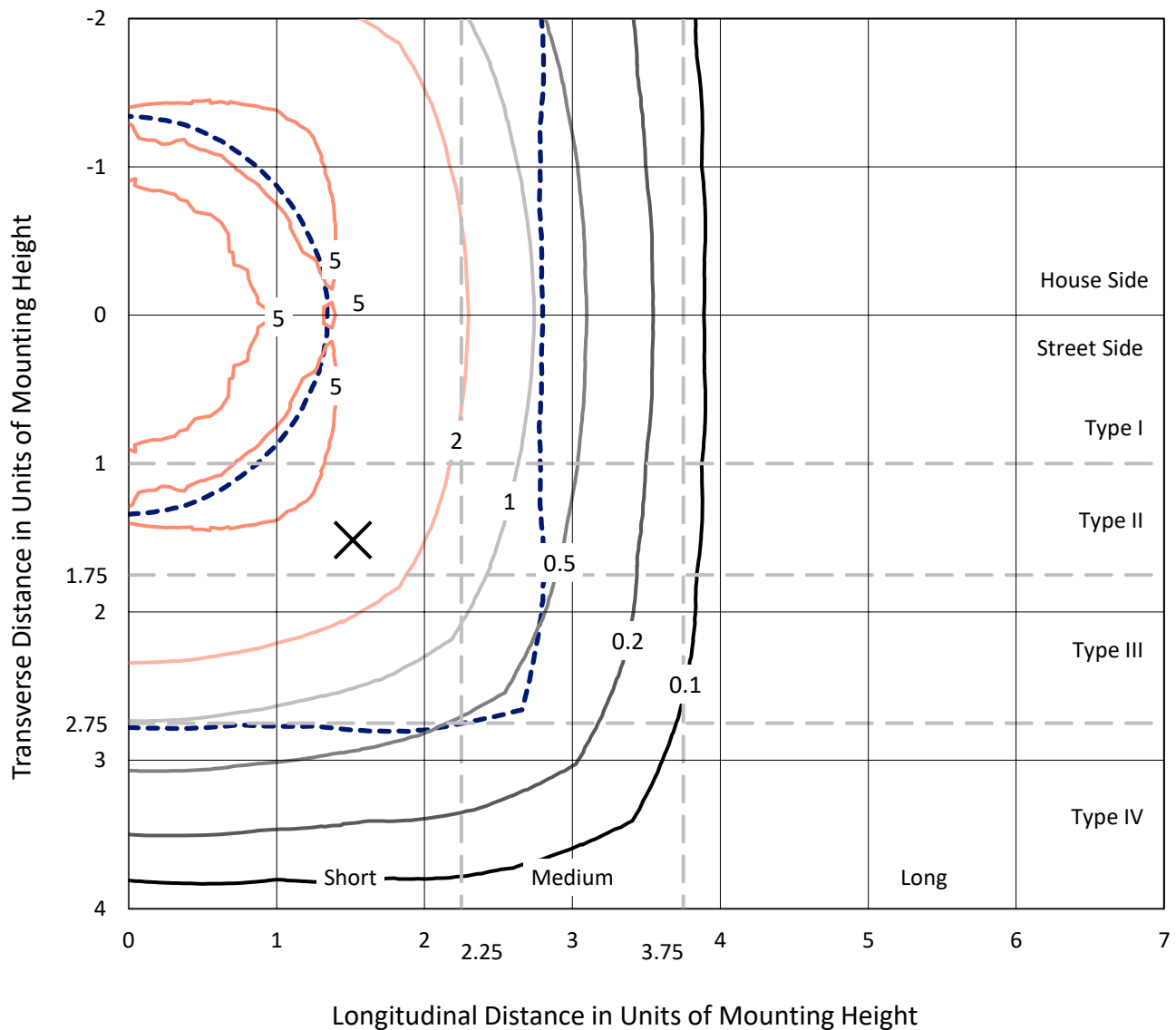
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd



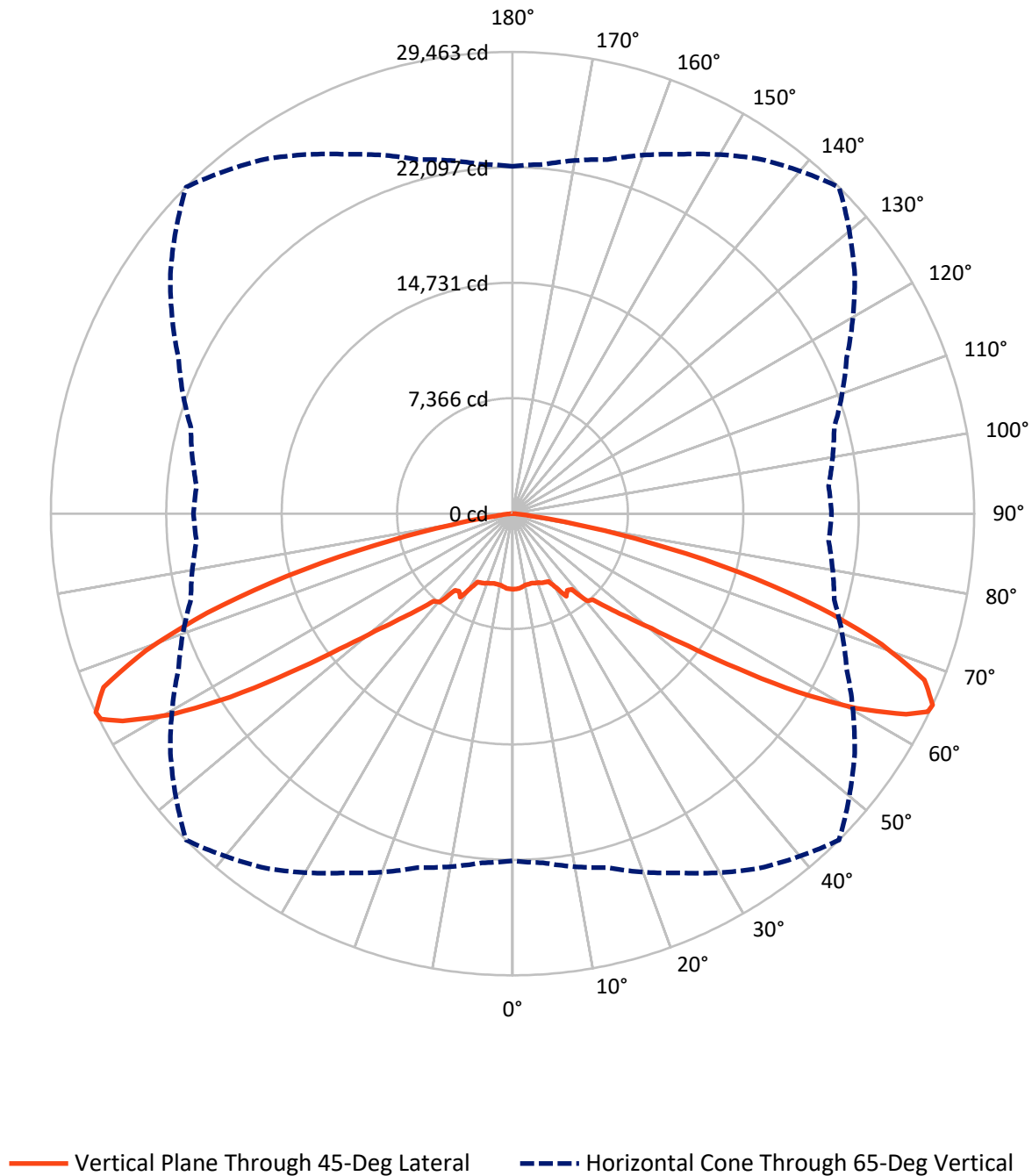
Based on 25 foot mounting height. Maximum calculated value = 7.7 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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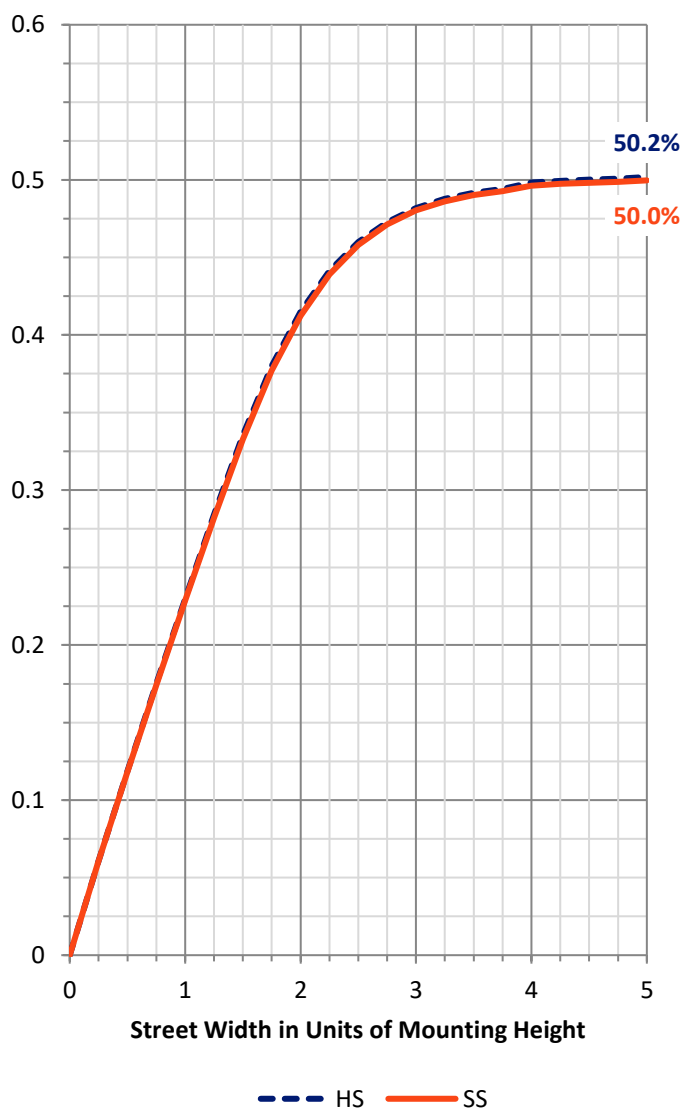
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	31550.6	0.0	31550.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	31550.6	0.0	31550.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	63101.1	0.0	63101.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.7	0.7
10°-20°	1329.9	2.1
20°-30°	2302.0	3.6
30°-40°	3827.8	6.1
40°-50°	6905.9	10.9
50°-60°	15384.0	24.4
60°-70°	22927.0	36.3
70°-80°	9501.3	15.1
80°-90°	470.6	0.7
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°	63101.1	100.0
0°-180°	63101.1	100.0

Coefficient of Utilization



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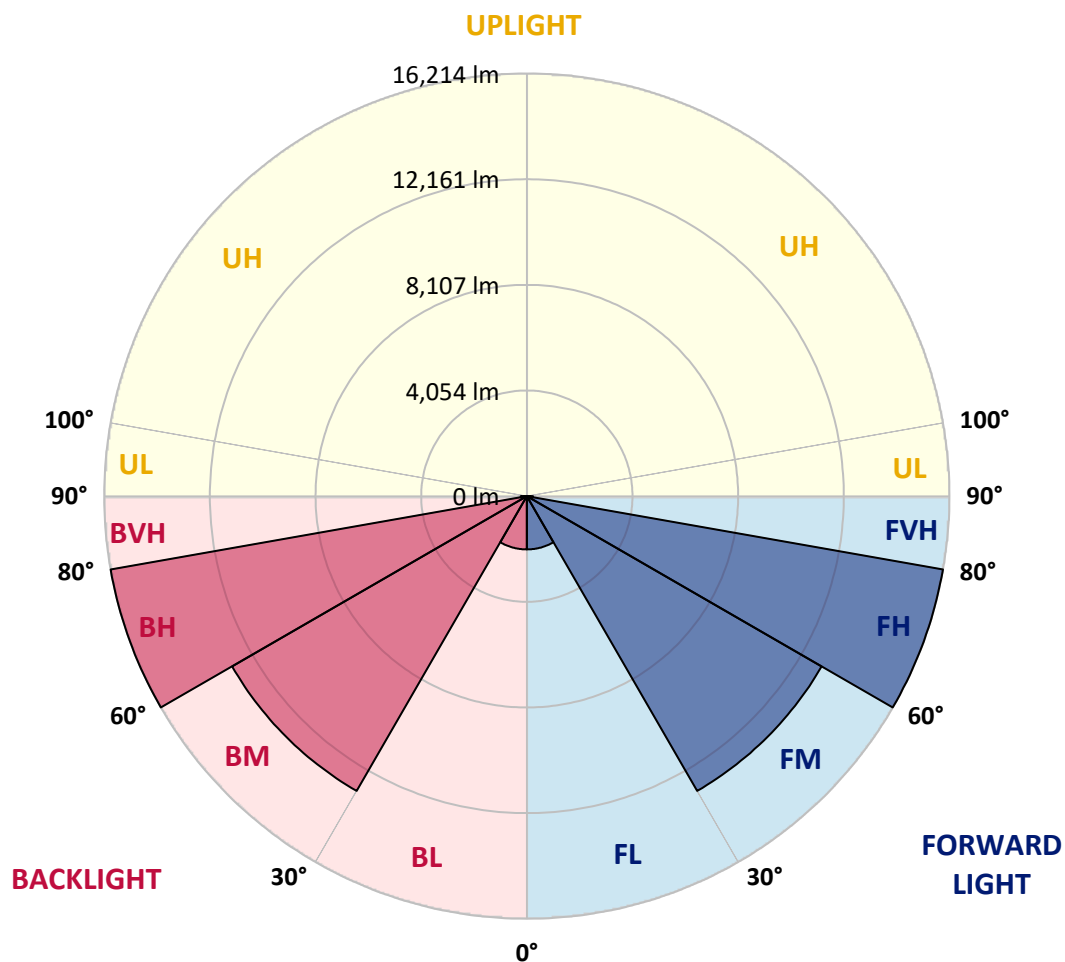
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2042.3	3.2			
FM	(30°-60°)	13058.8	20.7			
FH	(60°-80°)	16214.1	25.7			G5
FVH	(80°-90°)	235.3	0.4			G3/500
BL	(0°-30°)	2042.3	3.2	B3/2500		
BM	(30°-60°)	13058.8	20.7	B5		
BH	(60°-80°)	16214.1	25.7	B5		G5
BVH	(80°-90°)	235.3	0.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4824.5	4824.5	4824.5	4824.5	4824.5	4824.5	4824.5	4824.5	4824.5	4824.5	4824.5
2.5°	4768.7	4782.6	4775.7	4775.7	4796.6	4810.5	4817.5	4887.2	4859.3	4880.2	4859.3
5°	4782.6	4782.6	4796.6	4782.6	4796.6	4782.6	4796.6	4775.7	4796.6	4810.5	4831.4
7.5°	4754.7	4740.8	4719.9	4719.9	4712.9	4699.0	4678.1	4733.8	4705.9	4726.9	4761.7
10°	4761.7	4740.8	4671.1	4685.0	4622.3	4622.3	4636.2	4636.2	4699.0	4768.7	4789.6
12.5°	4761.7	4719.9	4699.0	4608.3	4608.3	4615.3	4650.2	4664.1	4705.9	4733.8	4803.5
15°	4761.7	4740.8	4705.9	4587.4	4615.3	4601.4	4636.2	4636.2	4726.9	4775.7	4810.5
17.5°	4789.6	4803.5	4740.8	4629.3	4636.2	4664.1	4643.2	4664.1	4775.7	4810.5	4859.3
20°	4796.6	4740.8	4719.9	4650.2	4712.9	4699.0	4692.0	4733.8	4768.7	4831.4	4887.2
22.5°	4782.6	4803.5	4719.9	4712.9	4768.7	4796.6	4810.5	4761.7	4803.5	4845.4	4894.2
25°	4901.2	4824.5	4803.5	4789.6	4817.5	4845.4	4831.4	4873.3	4873.3	4922.1	4984.8
27.5°	5221.9	5228.8	5187.0	5019.7	4963.9	4901.2	4929.0	5040.6	5173.1	5277.6	5298.5
30°	5368.3	5396.1	5507.7	5479.8	5458.9	5479.8	5472.8	5500.7	5514.7	5521.6	5500.7
32.5°	5500.7	5486.8	5438.0	5563.5	5974.8	6288.5	5988.8	5577.4	5486.8	5458.9	5486.8
35°	5981.8	5981.8	5877.2	5716.9	5933.0	6009.7	5870.2	5675.0	5786.6	6016.6	6030.6
37.5°	6602.3	6511.6	6553.5	6532.5	6295.5	6128.2	6372.2	6497.7	6518.6	6511.6	6581.4
40°	6971.8	6909.0	6846.3	6957.8	7174.0	7327.3	7111.2	6811.4	6888.1	7041.5	6978.7
42.5°	7815.4	7655.0	7668.9	7557.4	7550.4	7501.6	7452.8	7473.7	7585.3	7759.6	7787.5
45°	8679.9	8756.5	8707.7	8498.6	8596.2	8596.2	8456.8	8561.3	8617.1	8819.3	8847.2
47.5°	10032.4	9997.5	10018.4	9830.2	9823.2	9872.0	9823.2	9830.2	10004.5	9990.5	9913.9
50°	11615.0	11712.6	11740.5	11649.8	11538.3	11517.4	11440.7	11538.3	11642.9	11649.8	11587.1
52.5°	13804.1	13908.7	13908.7	13936.6	14076.0	14006.3	13992.3	13999.3	13797.1	13657.7	13727.4
55°	16564.9	16599.8	16718.3	16962.3	17387.6	17443.4	17178.4	17059.9	16690.4	16467.3	16641.6
57.5°	19290.9	19430.3	19758.0	20392.4	20915.3	21487.0	20720.1	19939.3	19214.2	18858.6	18921.4
60°	21556.7	21758.9	22386.4	23271.8	24721.9	25244.8	23948.0	22609.4	21138.4	20050.8	20490.0
62.5°	22623.4	22937.1	23467.0	25258.7	27433.9	28186.9	26283.6	23850.4	21619.5	20573.7	20552.8
64°	22630.4	22679.2	23738.9	25670.1	27908.0	29365.1	26848.3	23850.4	21738.0	20448.2	20685.2
65°	22163.3	22365.4	23390.3	25293.6	27608.2	29462.7	26653.1	23522.8	21250.0	20246.0	20357.6
67.5°	20043.8	20036.9	20985.0	22874.4	26088.4	28354.2	24993.8	21689.2	20043.8	18956.2	19088.7
70°	15205.4	15449.4	16355.8	18677.4	22574.6	25000.8	21856.5	18433.4	16383.7	15512.2	15463.4
72.5°	9098.2	9418.9	10576.2	13406.7	17534.0	20483.1	17345.8	13636.8	11168.8	9788.4	9823.2
75°	4148.2	4385.2	5180.0	7487.7	11684.7	14975.4	11754.4	7885.1	5654.1	4775.7	4650.2
77.5°	1164.3	1310.7	1749.9	3437.1	6414.0	8979.6	6595.3	3799.6	2468.0	2049.7	2007.9
80°	522.9	550.8	620.5	836.6	2035.8	3960.0	2726.0	1394.4	927.2	766.9	732.0
82.5°	285.8	306.8	404.4	432.2	578.7	1052.7	899.4	655.3	557.7	446.2	432.2
85°	160.4	167.3	230.1	230.1	278.9	306.8	327.7	348.6	341.6	251.0	244.0
87.5°	48.8	55.8	69.7	69.7	69.7	69.7	111.5	153.4	167.3	118.5	118.5
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)