

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: P977475

Luminaire Tested: **EPH-VN-08-E-750-U-5WQ**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977475
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-750-U-5WQ
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5WQ
distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 70883.1 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

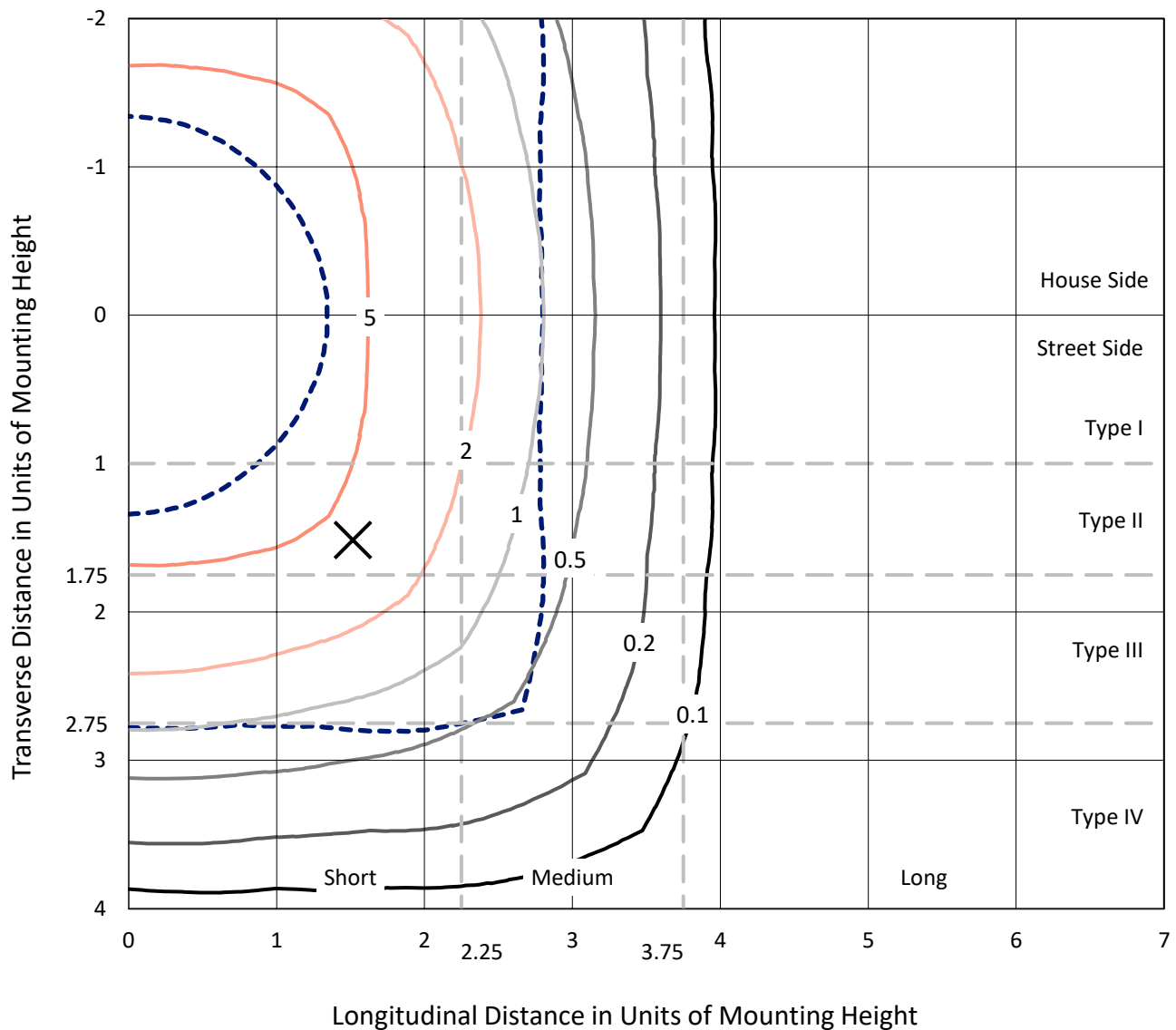
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

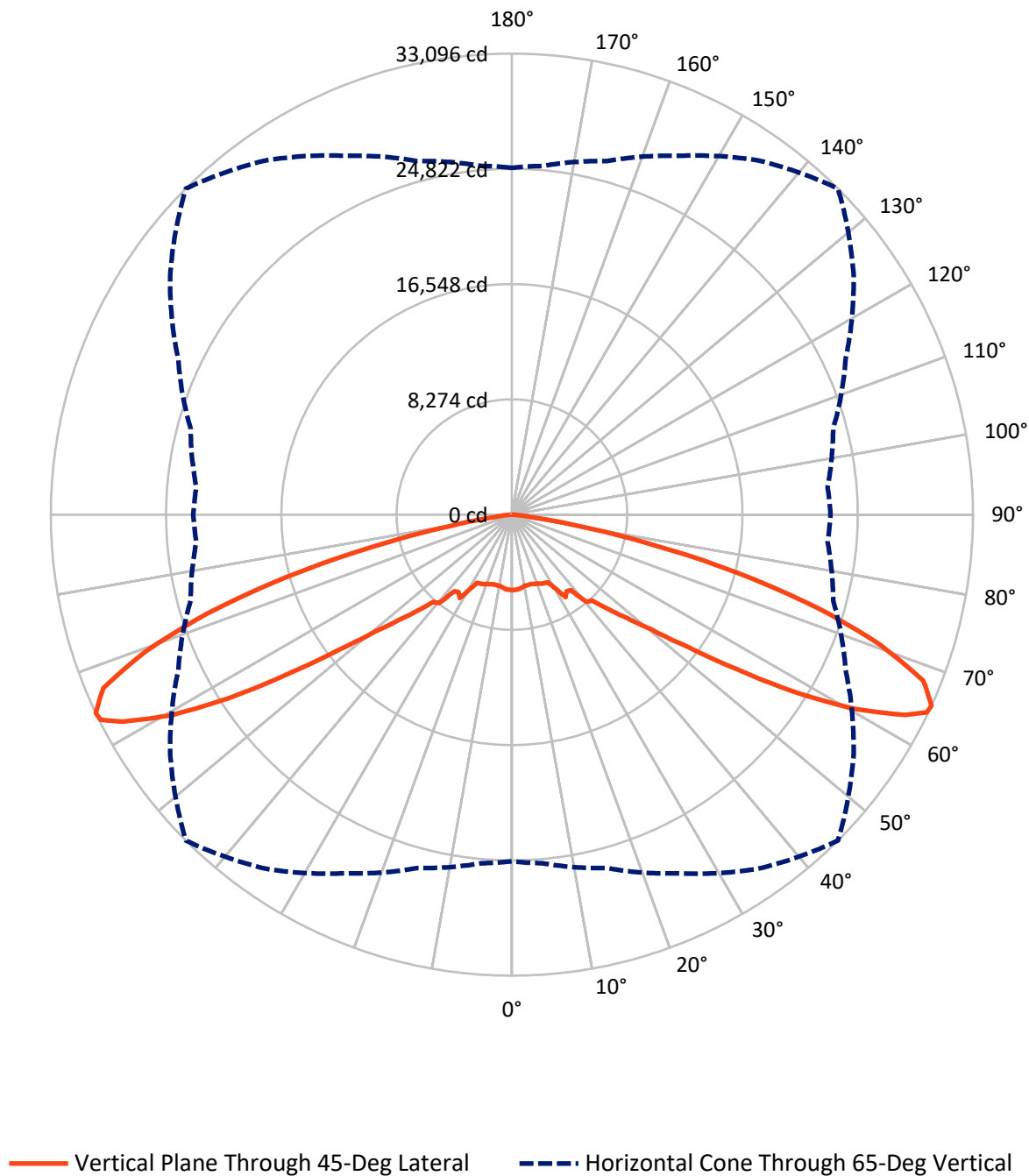


Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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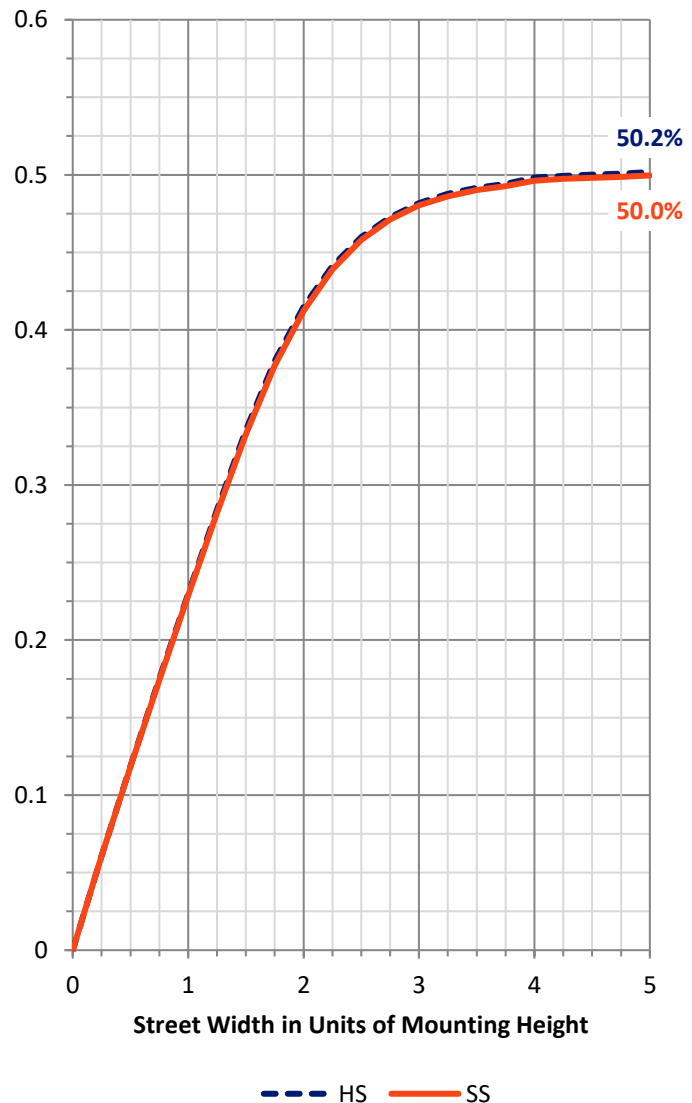
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	35441.5	0.0	35441.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	35441.5	0.0	35441.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	70883.1	0.0	70883.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.6	0.7
10°-20°	1493.9	2.1
20°-30°	2585.9	3.6
30°-40°	4299.8	6.1
40°-50°	7757.5	10.9
50°-60°	17281.2	24.4
60°-70°	25754.5	36.3
70°-80°	10673.0	15.1
80°-90°	528.6	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°	70883.1	100.0
0°-180°	70883.1	100.0



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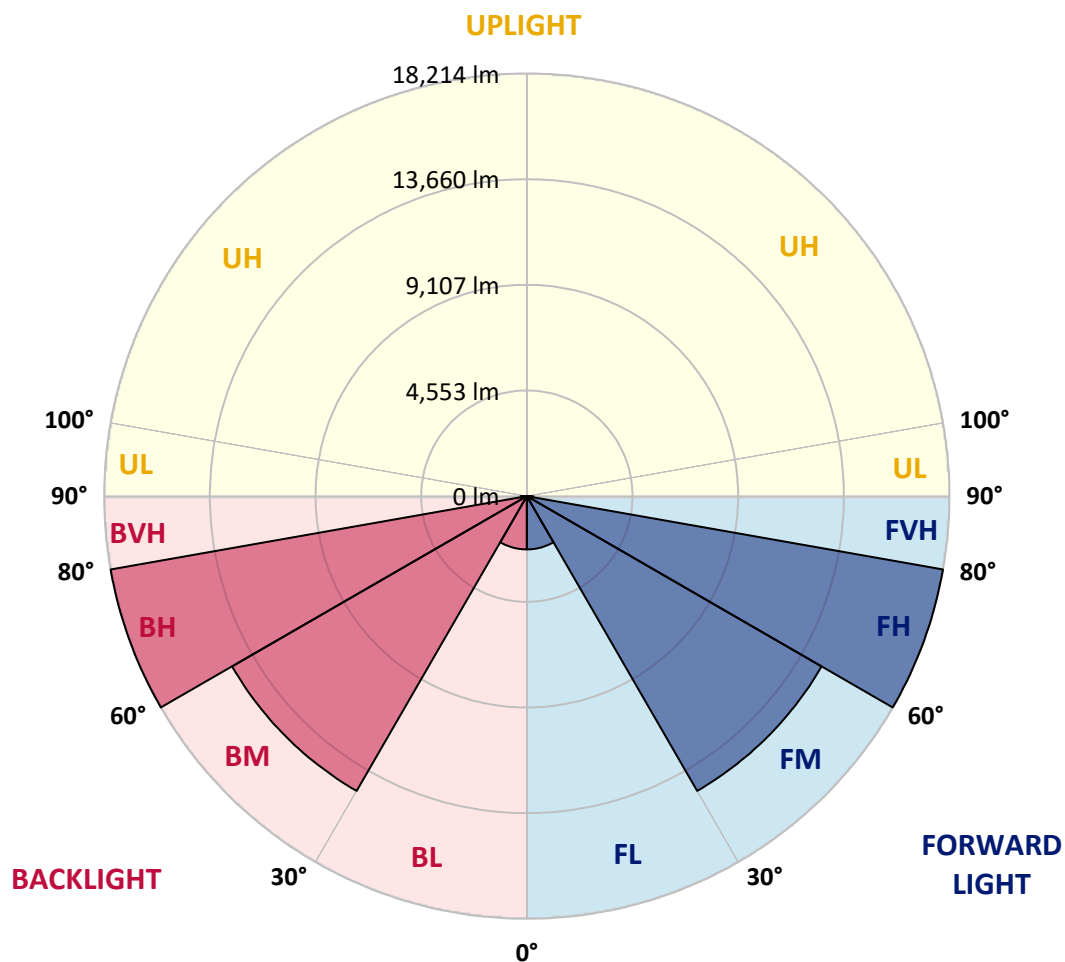
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2294.2	3.2			
FM	(30°-60°)	14669.3	20.7			
FH	(60°-80°)	18213.8	25.7			G5
FVH	(80°-90°)	264.3	0.4			G3/500
BL	(0°-30°)	2294.2	3.2	B3/2500		
BM	(30°-60°)	14669.3	20.7	B5		
BH	(60°-80°)	18213.8	25.7	B5		G5
BVH	(80°-90°)	264.3	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°	5419.4	5419.4	5419.4	5419.4	5419.4	5419.4	5419.4	5419.4	5419.4	5419.4	5419.4
2.5°	5356.8	5372.5	5364.6	5364.6	5388.1	5403.8	5411.6	5489.9	5458.6	5482.1	5458.6
5°	5372.5	5372.5	5388.1	5372.5	5388.1	5372.5	5388.1	5364.6	5388.1	5403.8	5427.3
7.5°	5341.1	5325.5	5302.0	5302.0	5294.1	5278.5	5255.0	5317.6	5286.3	5309.8	5349.0
10°	5349.0	5325.5	5247.1	5262.8	5192.3	5192.3	5208.0	5208.0	5278.5	5356.8	5380.3
12.5°	5349.0	5302.0	5278.5	5176.7	5176.7	5184.5	5223.7	5239.3	5286.3	5317.6	5395.9
15°	5349.0	5325.5	5286.3	5153.2	5184.5	5168.8	5208.0	5208.0	5309.8	5364.6	5403.8
17.5°	5380.3	5395.9	5325.5	5200.2	5208.0	5239.3	5215.8	5239.3	5364.6	5403.8	5458.6
20°	5388.1	5325.5	5302.0	5223.7	5294.1	5278.5	5270.6	5317.6	5356.8	5427.3	5489.9
22.5°	5372.5	5395.9	5302.0	5294.1	5356.8	5388.1	5403.8	5349.0	5395.9	5442.9	5497.8
25°	5505.6	5419.4	5395.9	5380.3	5411.6	5442.9	5427.3	5474.3	5474.3	5529.1	5599.6
27.5°	5865.8	5873.7	5826.7	5638.7	5576.1	5505.6	5536.9	5662.2	5811.0	5928.5	5952.0
30°	6030.3	6061.6	6186.9	6155.6	6132.1	6155.6	6147.8	6179.1	6194.8	6202.6	6179.1
32.5°	6179.1	6163.4	6108.6	6249.6	6711.7	7064.1	6727.3	6265.3	6163.4	6132.1	6163.4
35°	6719.5	6719.5	6602.0	6421.9	6664.7	6750.8	6594.2	6374.9	6500.2	6758.6	6774.3
37.5°	7416.5	7314.7	7361.7	7338.2	7071.9	6883.9	7158.1	7299.0	7322.5	7314.7	7393.0
40°	7831.6	7761.1	7690.6	7815.9	8058.7	8231.0	7988.2	7651.4	7737.6	7909.9	7839.4
42.5°	8779.2	8599.1	8614.7	8489.4	8481.6	8426.8	8371.9	8395.4	8520.7	8716.5	8747.9
45°	9750.3	9836.4	9781.6	9546.7	9656.3	9656.3	9499.7	9617.2	9679.8	9906.9	9938.3
47.5°	11269.6	11230.5	11254.0	11042.5	11034.7	11089.5	11034.7	11042.5	11238.3	11222.6	11136.5
50°	13047.4	13157.0	13188.4	13086.5	12961.2	12937.7	12851.6	12961.2	13078.7	13086.5	13016.1
52.5°	15506.5	15624.0	15624.0	15655.3	15811.9	15733.6	15718.0	15725.8	15498.7	15342.0	15420.4
55°	18607.8	18647.0	18780.1	19054.2	19531.9	19594.6	19297.0	19163.8	18748.8	18498.2	18693.9
57.5°	21669.9	21826.6	22194.7	22907.3	23494.7	24136.9	23275.4	22398.3	21583.8	21184.4	21254.9
60°	24215.2	24442.3	25147.2	26141.8	27770.7	28358.1	26901.4	25397.8	23745.3	22523.6	23017.0
62.5°	25413.4	25765.8	26361.0	28373.8	30817.2	31663.0	29525.0	26791.8	24285.7	23110.9	23087.5
64°	25421.3	25476.1	26666.5	28835.8	31349.8	32986.6	30159.4	26791.8	24418.8	22970.0	23236.3
65°	24896.5	25123.7	26274.9	28412.9	31013.0	33096.2	29940.1	26423.7	23870.6	22742.9	22868.2
67.5°	22515.7	22507.9	23573.0	25695.4	29305.7	31851.0	28076.2	24364.0	22515.7	21294.0	21442.8
70°	17080.6	17354.7	18372.9	20980.8	25358.6	28084.0	24552.0	20706.7	18404.2	17425.2	17370.4
72.5°	10220.2	10580.4	11880.5	15060.1	19696.4	23009.1	19484.9	15318.5	12546.2	10995.5	11034.7
75°	4659.8	4926.1	5818.9	8411.1	13125.7	16822.2	13204.0	8857.5	6351.4	5364.6	5223.7
77.5°	1307.9	1472.3	1965.7	3861.0	7205.0	10087.1	7408.7	4268.2	2772.4	2302.5	2255.5
80°	587.4	618.7	697.0	939.8	2286.8	4448.3	3062.1	1566.3	1041.6	861.5	822.3
82.5°	321.1	344.6	454.2	485.6	650.0	1182.6	1010.3	736.2	626.5	501.2	485.6
85°	180.1	188.0	258.4	258.4	313.3	344.6	368.1	391.6	383.7	281.9	274.1
87.5°	54.8	62.7	78.3	78.3	78.3	78.3	125.3	172.3	188.0	133.1	133.1
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)