

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: P977473

Luminaire Tested: **EPH-VN-08-E-735-U-5WQ**

Issue Date: 03/26/2025



Test Information

Test Method: LM-79-08
Report Number: P977473
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-735-U-5WQ
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68346.8 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

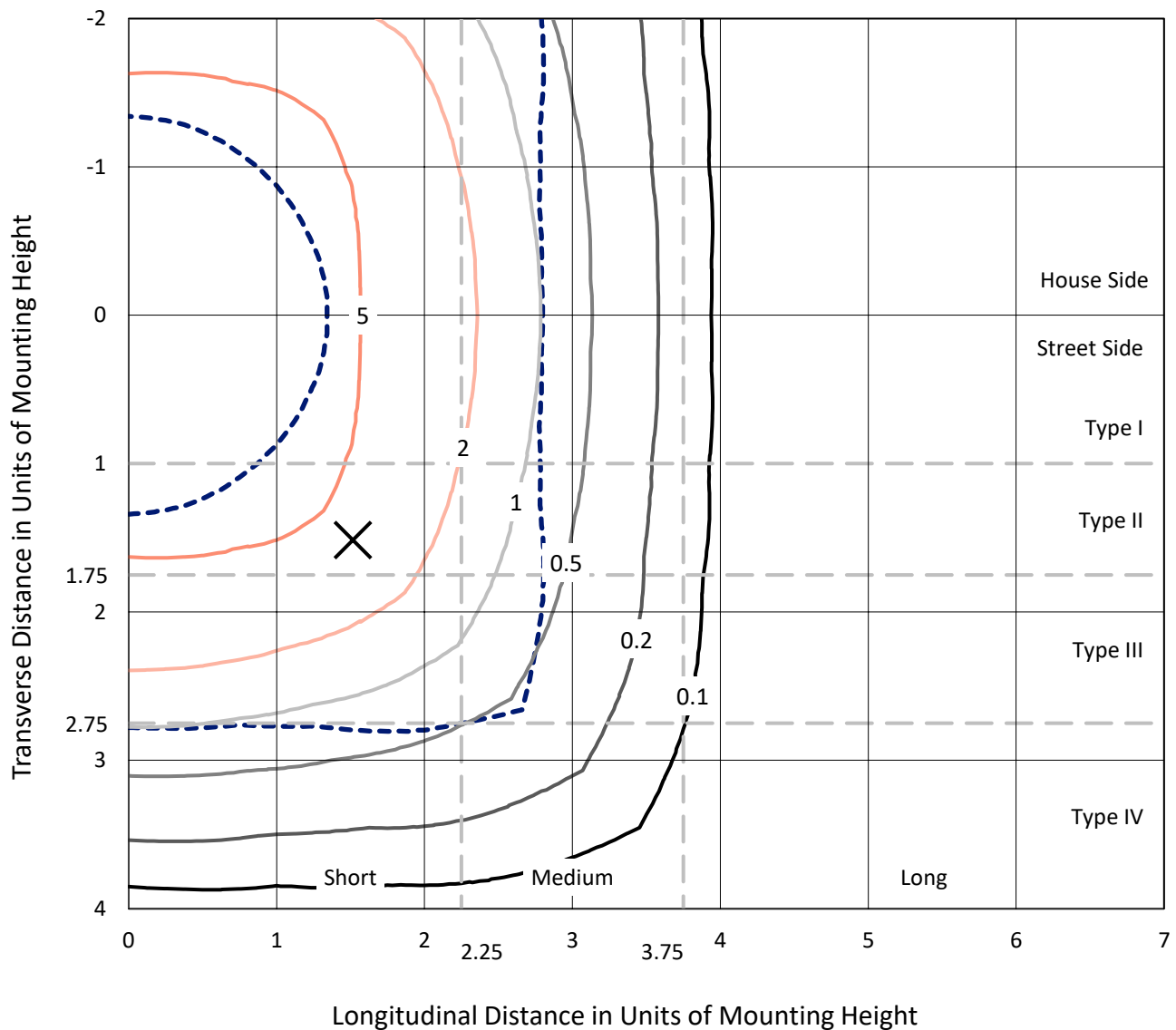
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

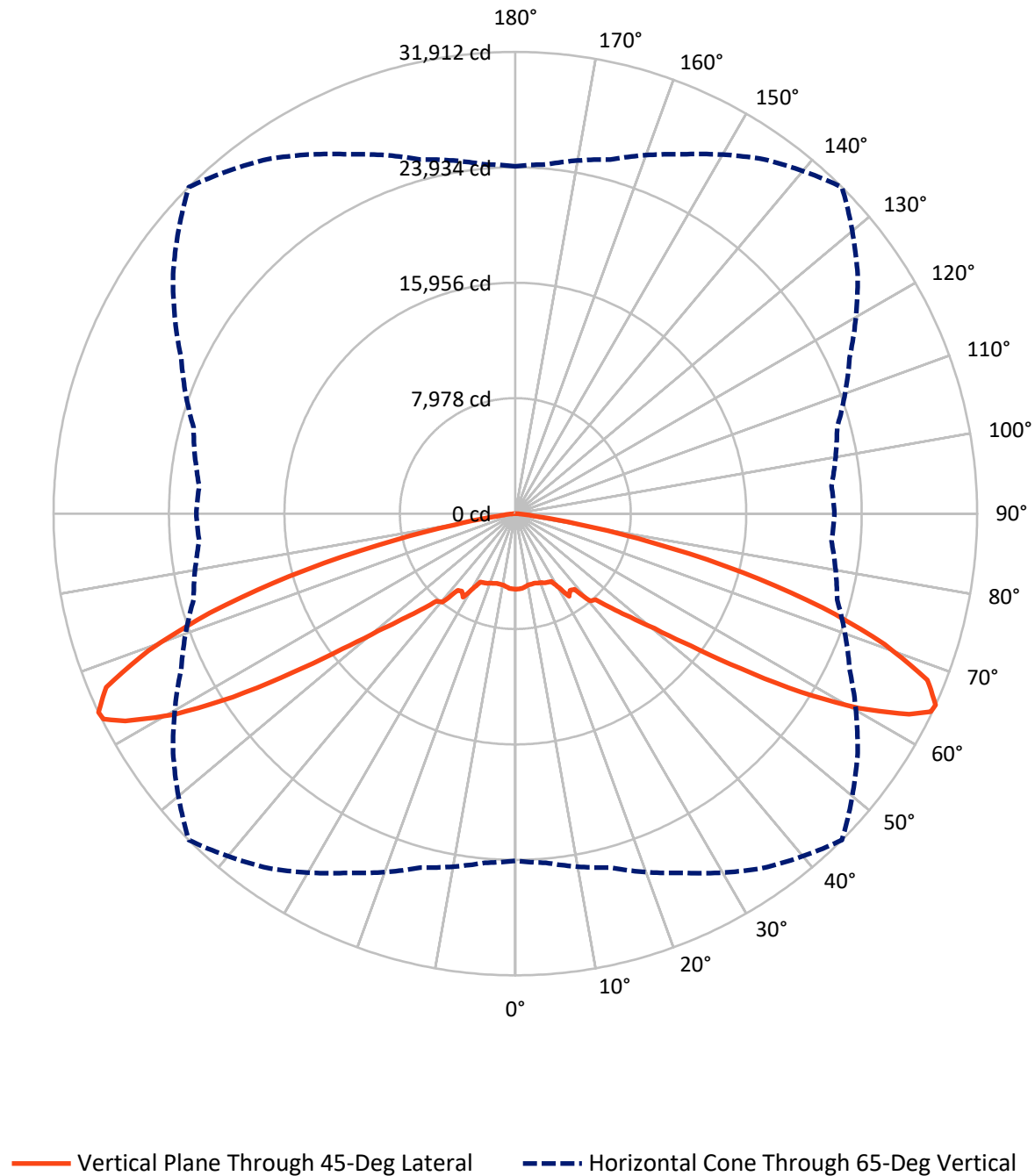


Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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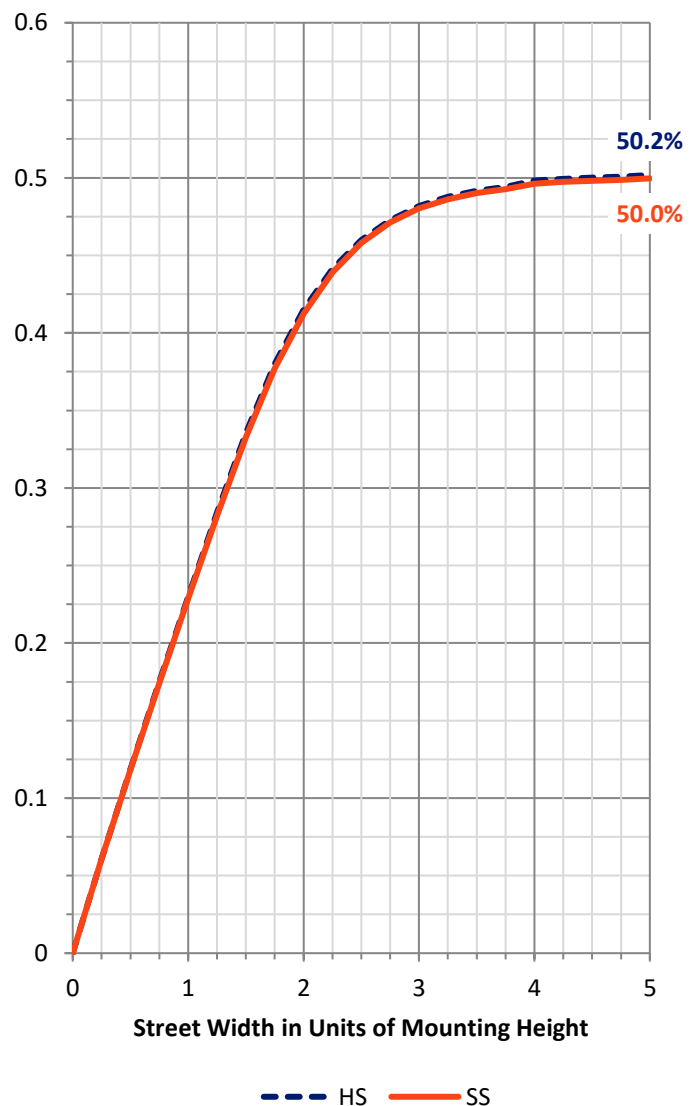
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	34173.4	0.0	34173.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	34173.4	0.0	34173.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	68346.8	0.0	68346.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.4	0.7
10°-20°	1440.5	2.1
20°-30°	2493.4	3.6
30°-40°	4146.0	6.1
40°-50°	7480.0	10.9
50°-60°	16662.9	24.4
60°-70°	24833.0	36.3
70°-80°	10291.1	15.1
80°-90°	509.7	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°	68346.8	100.0
0°-180°	68346.8	100.0



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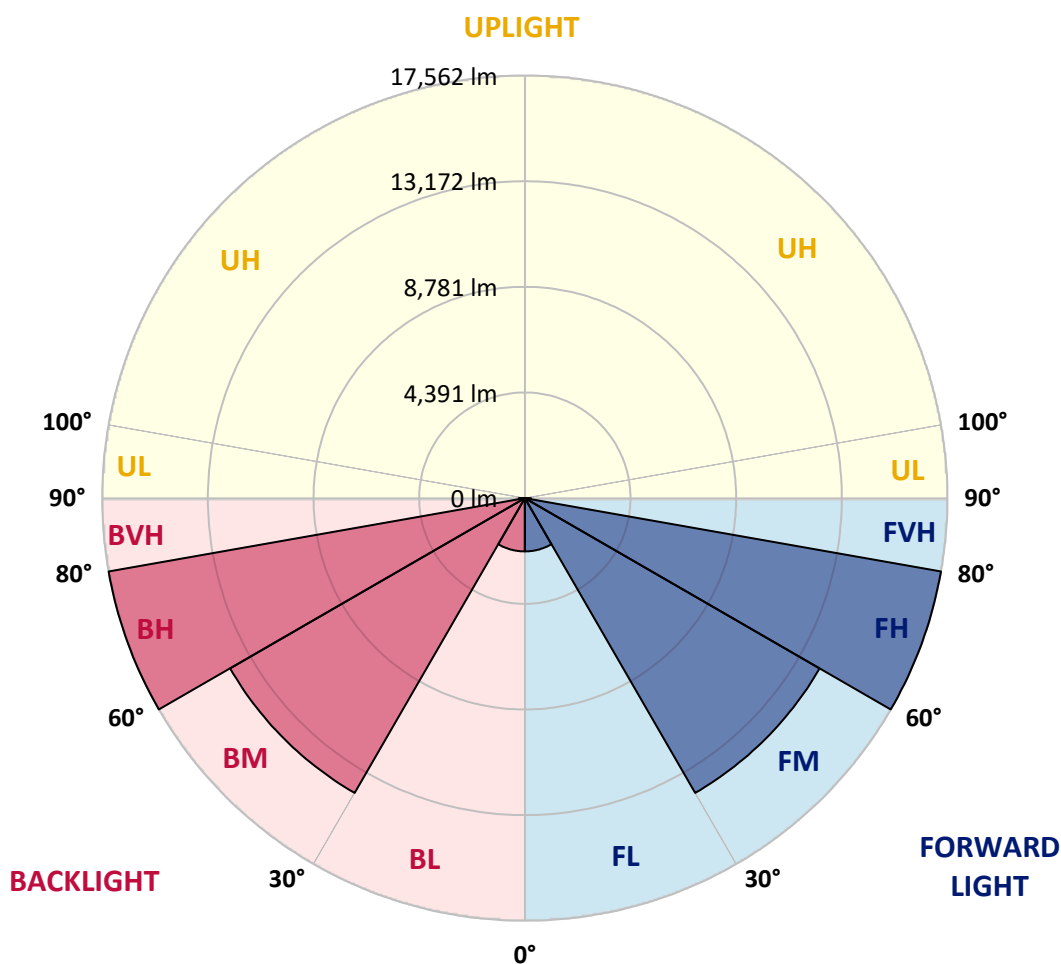
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2212.1	3.2			
FM	(30°-60°)	14144.4	20.7			
FH	(60°-80°)	17562.1	25.7			G5
FVH	(80°-90°)	254.9	0.4			G3/500
BL	(0°-30°)	2212.1	3.2	B3/2500		
BM	(30°-60°)	14144.4	20.7	B5		
BH	(60°-80°)	17562.1	25.7	B5		G5
BVH	(80°-90°)	254.9	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°	5225.5	5225.5	5225.5	5225.5	5225.5	5225.5	5225.5	5225.5	5225.5	5225.5	5225.5
2.5°	5165.1	5180.2	5172.7	5172.7	5195.3	5210.4	5218.0	5293.5	5263.3	5285.9	5263.3
5°	5180.2	5180.2	5195.3	5180.2	5195.3	5180.2	5195.3	5172.7	5195.3	5210.4	5233.1
7.5°	5150.0	5134.9	5112.3	5112.3	5104.7	5089.6	5067.0	5127.4	5097.2	5119.8	5157.6
10°	5157.6	5134.9	5059.4	5074.5	5006.5	5006.5	5021.6	5021.6	5089.6	5165.1	5187.8
12.5°	5157.6	5112.3	5089.6	4991.4	4991.4	4999.0	5036.7	5051.9	5097.2	5127.4	5202.9
15°	5157.6	5134.9	5097.2	4968.8	4999.0	4983.9	5021.6	5021.6	5119.8	5172.7	5210.4
17.5°	5187.8	5202.9	5134.9	5014.1	5021.6	5051.9	5029.2	5051.9	5172.7	5210.4	5263.3
20°	5195.3	5134.9	5112.3	5036.7	5104.7	5089.6	5082.1	5127.4	5165.1	5233.1	5293.5
22.5°	5180.2	5202.9	5112.3	5104.7	5165.1	5195.3	5210.4	5157.6	5202.9	5248.2	5301.0
25°	5308.6	5225.5	5202.9	5187.8	5218.0	5248.2	5233.1	5278.4	5278.4	5331.3	5399.2
27.5°	5656.0	5663.5	5618.2	5437.0	5376.6	5308.6	5338.8	5459.6	5603.1	5716.4	5739.0
30°	5814.5	5844.7	5965.6	5935.4	5912.7	5935.4	5927.8	5958.0	5973.1	5980.7	5958.0
32.5°	5958.0	5942.9	5890.1	6026.0	6471.5	6811.3	6486.6	6041.1	5942.9	5912.7	5942.9
35°	6479.1	6479.1	6365.8	6192.1	6426.2	6509.3	6358.2	6146.8	6267.6	6516.8	6531.9
37.5°	7151.1	7053.0	7098.3	7075.6	6818.9	6637.6	6901.9	7037.9	7060.5	7053.0	7128.5
40°	7551.3	7483.4	7415.4	7536.2	7770.3	7936.5	7702.4	7377.7	7460.7	7626.9	7558.9
42.5°	8465.1	8291.4	8306.5	8185.7	8178.1	8125.2	8072.4	8095.0	8215.9	8404.6	8434.9
45°	9401.4	9484.5	9431.6	9205.1	9310.8	9310.8	9159.8	9273.1	9333.5	9552.5	9582.7
47.5°	10866.4	10828.6	10851.3	10647.4	10639.8	10692.7	10639.8	10647.4	10836.2	10821.1	10738.0
50°	12580.5	12686.3	12716.5	12618.3	12497.5	12474.8	12391.8	12497.5	12610.7	12618.3	12550.3
52.5°	14951.7	15064.9	15064.9	15095.1	15246.2	15170.7	15155.6	15163.1	14944.1	14793.1	14868.6
55°	17942.0	17979.8	18108.1	18372.4	18833.1	18893.5	18606.5	18478.1	18077.9	17836.3	18025.1
57.5°	20894.6	21045.6	21400.5	22087.7	22654.0	23273.3	22442.6	21596.9	20811.5	20426.4	20494.4
60°	23348.8	23567.8	24247.4	25206.4	26777.1	27343.4	25938.9	24489.0	22895.7	21717.7	22193.4
62.5°	24504.1	24843.9	25417.8	27358.5	29714.6	30530.1	28468.6	25833.2	23416.7	22284.0	22261.4
64°	24511.7	24564.5	25712.3	27804.1	30228.0	31806.3	29080.2	25833.2	23545.1	22148.1	22404.8
65°	24005.7	24224.7	25334.8	27396.3	29903.3	31912.0	28868.8	25478.2	23016.5	21929.1	22049.9
67.5°	21710.1	21702.6	22729.6	24776.0	28257.1	30711.3	27071.6	23492.2	21710.1	20532.1	20675.6
70°	16469.5	16733.8	17715.5	20230.1	24451.3	27079.1	23673.5	19965.8	17745.7	16801.7	16748.9
72.5°	9854.5	10201.9	11455.4	14521.2	18991.6	22185.9	18787.8	14770.4	12097.3	10602.1	10639.8
75°	4493.1	4749.8	5610.7	8110.1	12656.1	16220.3	12731.6	8540.6	6124.1	5172.7	5036.7
77.5°	1261.1	1419.7	1895.4	3722.8	6947.2	9726.1	7143.6	4115.5	2673.2	2220.1	2174.8
80°	566.4	596.6	672.1	906.2	2205.0	4289.2	2952.6	1510.3	1004.3	830.6	792.9
82.5°	309.6	332.3	438.0	468.2	626.8	1140.3	974.1	709.8	604.1	483.3	468.2
85°	173.7	181.2	249.2	249.2	302.1	332.3	354.9	377.6	370.0	271.8	264.3
87.5°	52.9	60.4	75.5	75.5	75.5	75.5	120.8	166.1	181.2	128.4	128.4
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)