

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1461272

Luminaire Tested: USSL-150-8540-U-5WQ

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461272
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-150-8540-U-5WQ
Description: USSL DISCRETE LED 1 SQUARE 150W 85CRI 4000k FIXTURE w/ TYPE V SQUARE WIDE DISTRIBUTION OPTIC
Light Source: (40) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19368 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 152
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 2.75%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

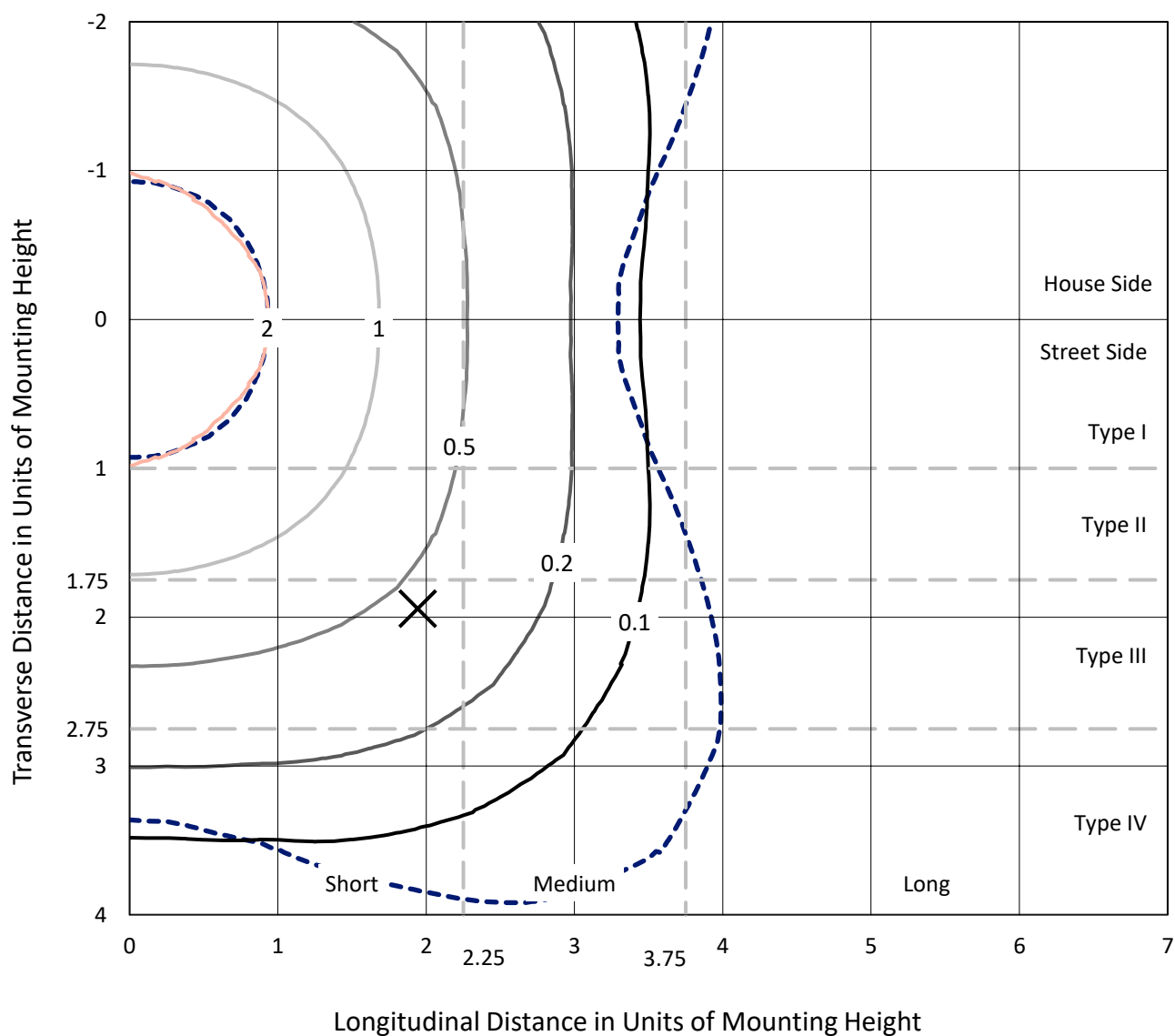
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

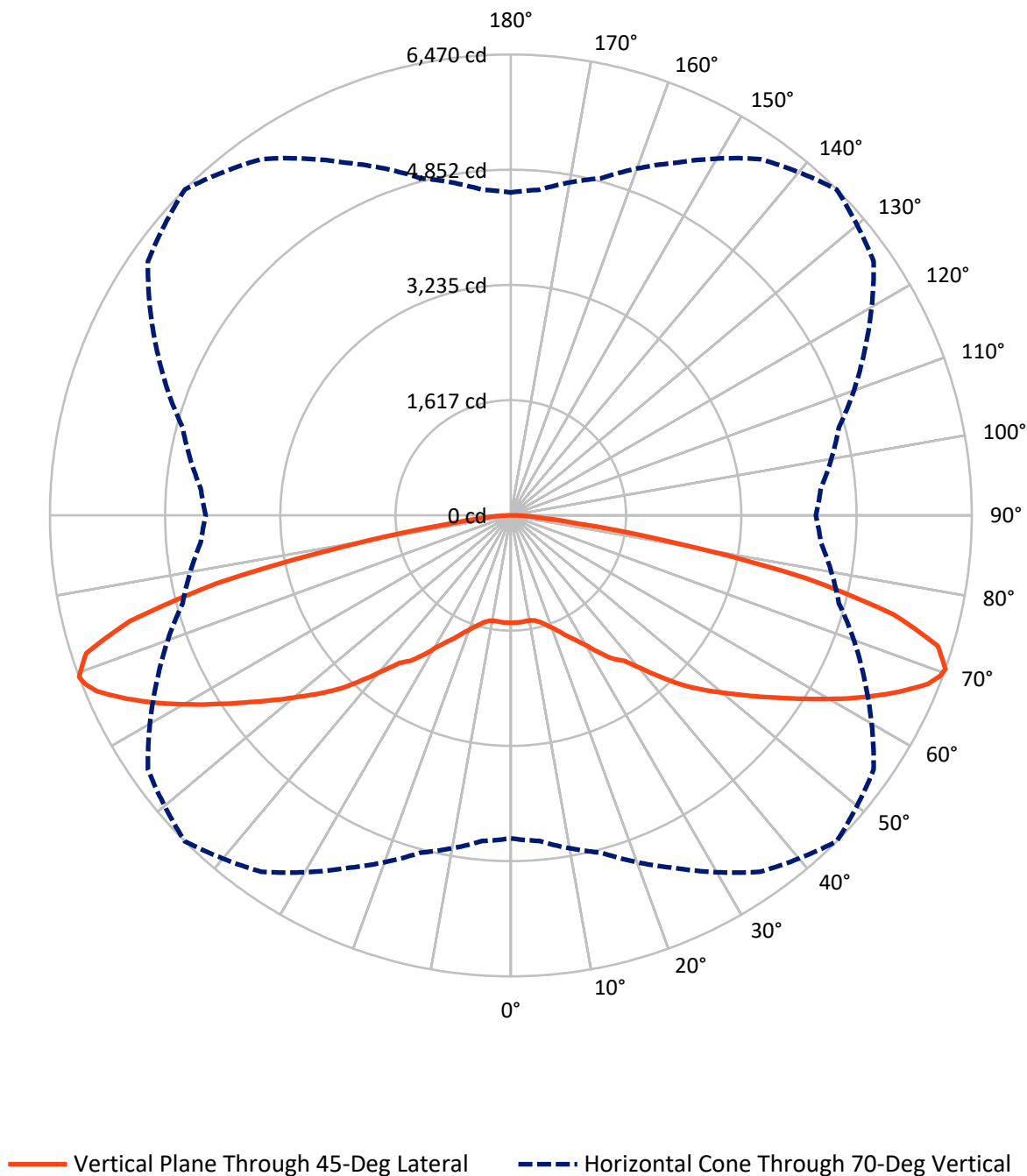


Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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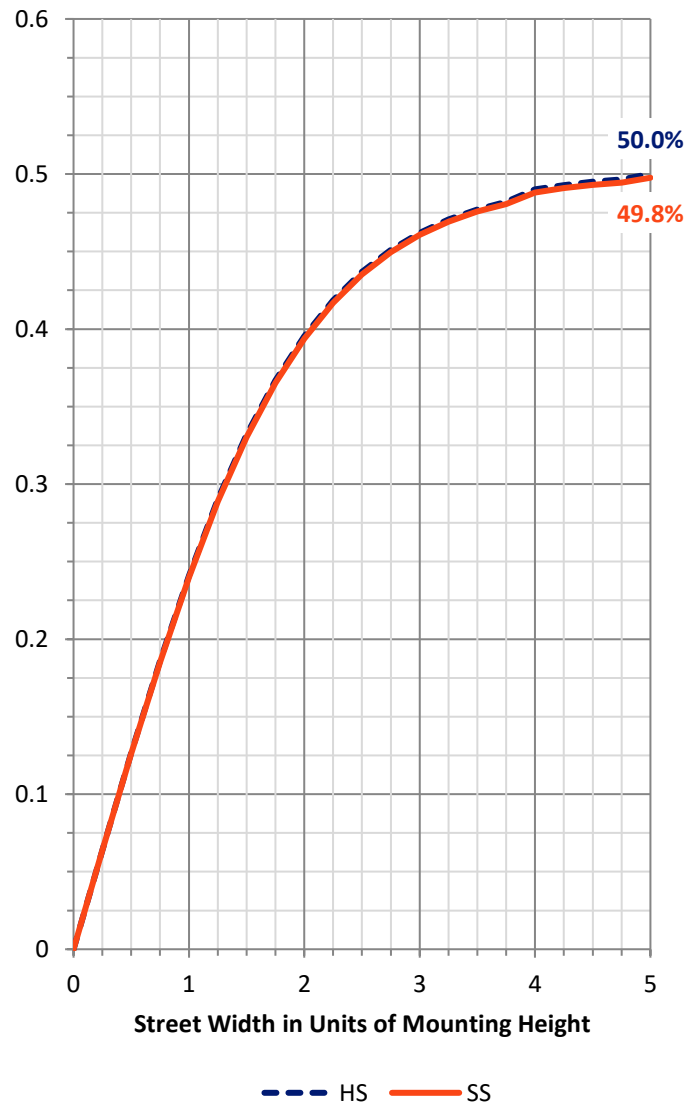
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9684.0	0.0	9684.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9684.0	0.0	9684.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19368.0	0.0	19368.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.8	0.7
10°-20°	445.8	2.3
20°-30°	868.4	4.5
30°-40°	1540.2	8.0
40°-50°	2657.3	13.7
50°-60°	4012.7	20.7
60°-70°	5342.8	27.6
70°-80°	3875.3	20.0
80°-90°	482.8	2.5
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°	19368.0	100.0
0°-180°	19368.0	100.0

Coefficient of Utilization



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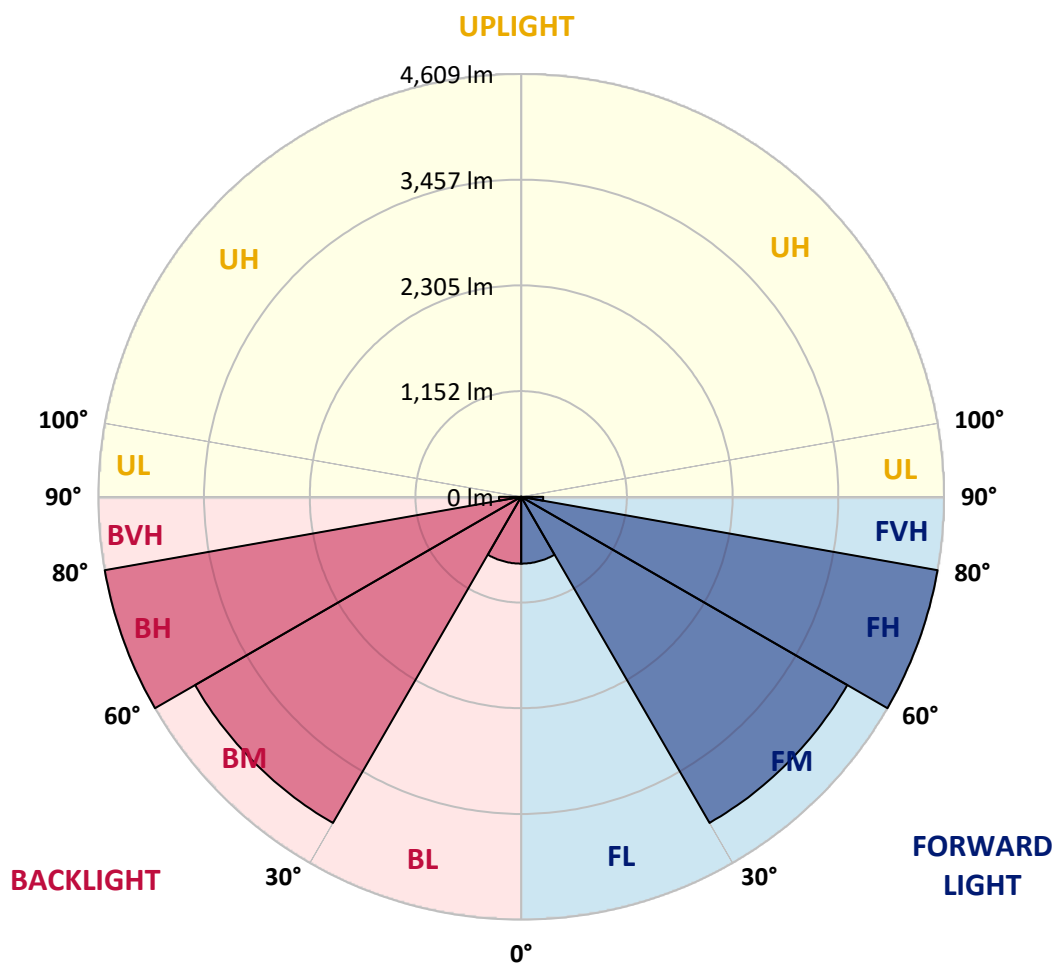
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	728.5	3.8			
FM	(30°-60°)	4105.1	21.2			
FH	(60°-80°)	4609.1	23.8			G2/5000
FVH	(80°-90°)	241.4	1.2			G3/500
BL	(0°-30°)	728.5	3.8	B2/1000		
BM	(30°-60°)	4105.1	21.2	B3/5000		
BH	(60°-80°)	4609.1	23.8	B4/5000		G2/5000
BVH	(80°-90°)	241.4	1.2			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1505.8	1505.8	1505.8	1505.8	1505.8	1505.8	1505.8	1505.8	1505.8	1505.8	1505.8
2.5°	1506.6	1506.6	1506.6	1506.6	1505.8	1504.9	1504.0	1504.0	1504.0	1503.1	1503.1
5°	1510.2	1509.3	1509.3	1508.4	1508.4	1504.9	1501.4	1498.7	1496.1	1493.5	1494.3
7.5°	1496.1	1497.8	1497.0	1498.7	1500.5	1498.7	1491.7	1483.8	1476.7	1470.6	1470.6
10°	1497.8	1497.0	1496.1	1497.0	1498.7	1497.8	1490.8	1480.3	1470.6	1463.6	1462.7
12.5°	1522.5	1522.5	1518.1	1514.5	1516.3	1514.5	1509.3	1497.0	1489.1	1482.0	1482.9
15°	1570.8	1569.0	1562.9	1557.6	1555.0	1554.1	1550.6	1541.8	1532.1	1524.2	1526.9
17.5°	1629.7	1629.7	1617.4	1614.8	1612.1	1619.1	1611.2	1598.9	1591.0	1586.6	1586.6
20°	1700.9	1702.7	1692.1	1686.8	1687.7	1688.6	1685.1	1671.9	1662.2	1657.8	1659.6
22.5°	1780.9	1777.4	1774.7	1772.1	1777.4	1778.3	1771.2	1755.4	1749.2	1740.5	1743.1
25°	1851.2	1851.2	1852.1	1866.2	1874.9	1888.1	1877.6	1853.0	1830.1	1821.3	1820.4
27.5°	1927.7	1925.9	1936.5	1956.7	1984.8	1997.1	1983.9	1953.2	1926.8	1913.6	1907.5
30°	2053.4	2052.5	2054.3	2079.8	2110.5	2129.0	2114.0	2088.5	2064.8	2052.5	2057.8
32.5°	2239.7	2229.2	2245.0	2271.4	2296.0	2303.9	2305.7	2276.7	2246.8	2236.2	2240.6
35°	2344.3	2341.7	2359.3	2390.9	2434.9	2470.9	2442.8	2417.3	2403.2	2388.3	2384.8
37.5°	2582.6	2581.7	2595.7	2593.1	2600.1	2592.2	2605.4	2616.0	2629.1	2617.7	2620.4
40°	2871.7	2864.7	2862.1	2856.8	2837.5	2825.2	2849.8	2868.2	2884.1	2906.0	2895.5
42.5°	3175.0	3163.6	3154.8	3139.0	3118.8	3110.0	3113.5	3146.9	3160.9	3163.6	3164.5
45°	3520.5	3499.4	3462.4	3434.3	3406.2	3403.6	3401.8	3408.8	3409.7	3409.7	3423.8
47.5°	3823.7	3821.1	3768.3	3720.0	3663.7	3663.7	3644.4	3641.8	3653.2	3668.1	3660.2
50°	4081.3	4072.5	4025.9	3984.6	3954.7	3918.7	3890.5	3868.6	3884.4	3897.6	3904.6
52.5°	4289.6	4288.7	4257.1	4241.3	4229.8	4207.9	4142.8	4103.3	4106.8	4122.6	4118.2
55°	4473.3	4485.6	4487.4	4507.6	4528.7	4512.9	4450.5	4390.7	4359.9	4337.1	4336.2
57.5°	4683.4	4691.3	4715.9	4781.0	4841.6	4855.7	4792.4	4703.6	4618.4	4562.1	4541.0
60°	4902.3	4904.0	4968.2	5071.1	5181.8	5228.4	5172.1	5026.2	4871.5	4749.3	4727.4
62.5°	5099.2	5094.8	5191.5	5347.1	5533.4	5609.0	5534.3	5320.7	5053.5	4882.9	4853.9
65°	5184.4	5195.9	5323.3	5562.4	5826.1	5973.8	5877.1	5522.0	5133.5	4903.2	4868.0
67.5°	5029.7	5062.3	5266.2	5641.5	6054.7	6314.0	6144.3	5604.6	5066.7	4767.8	4721.2
69°	4808.2	4816.1	5080.7	5572.1	6116.2	6432.6	6218.2	5561.5	4932.2	4552.4	4503.2
70°	4532.2	4587.6	4900.5	5460.5	6105.7	6469.6	6217.3	5479.8	4768.7	4368.7	4281.7
72.5°	3679.6	3699.8	4144.6	5001.6	5847.2	6268.3	5920.2	5028.0	4141.9	3546.8	3524.0
75°	2464.8	2562.3	3097.7	4133.1	5107.1	5546.6	5111.5	4127.9	3105.6	2362.8	2259.1
77.5°	1278.1	1333.5	1809.0	2693.3	3713.0	4231.6	3811.4	2888.5	1912.7	1155.0	1096.1
80°	628.5	658.4	835.9	1242.1	1923.3	2332.0	2136.0	1518.1	895.7	572.2	538.0
82.5°	353.4	364.8	464.1	578.4	801.7	933.5	873.7	740.1	450.1	339.3	329.6
85°	183.7	193.4	289.2	356.9	399.1	403.5	402.6	397.3	283.9	207.4	197.8
87.5°	87.0	95.8	148.6	196.0	206.6	199.5	211.8	183.7	134.5	94.1	82.6
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)