

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: P381066

Luminaire Tested: **PRV-XL-PA4A-8540-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-PA4A-8540-U-5WQ
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 85 CRI, 4000K, 785mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27466.9 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 245
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: 28.75 FT

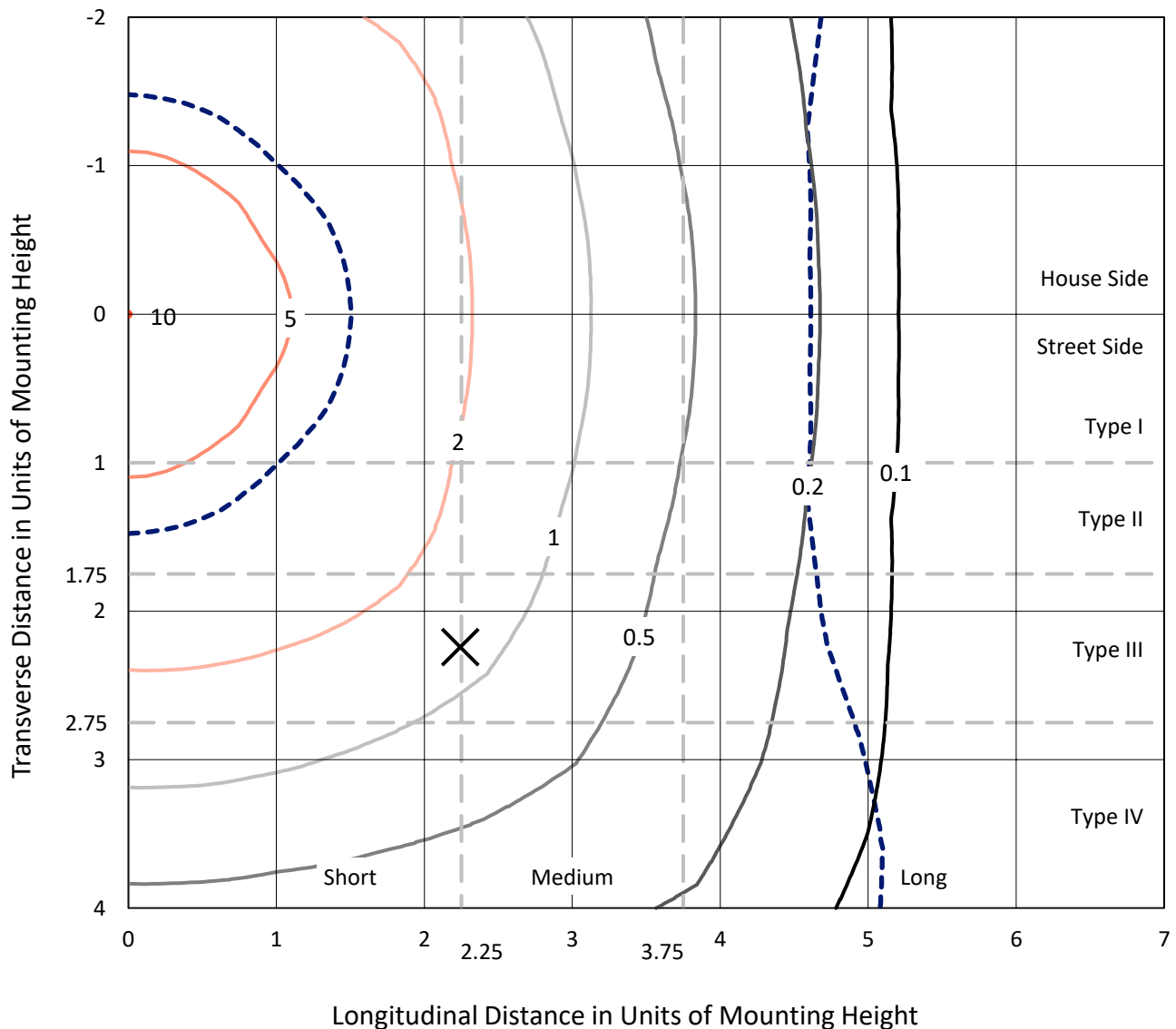


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

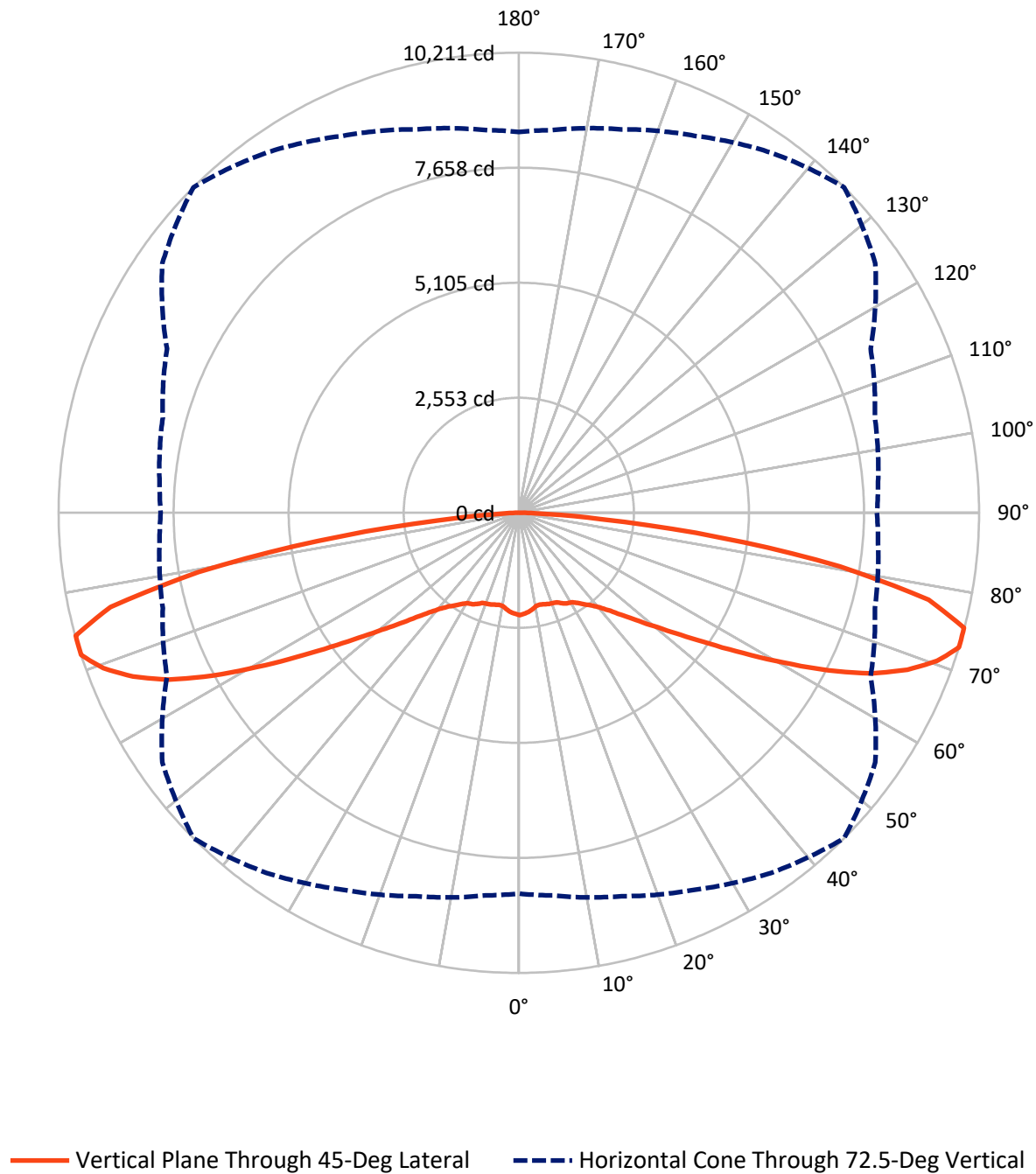


Based on 15 foot mounting height. Maximum calculated value = 10.1 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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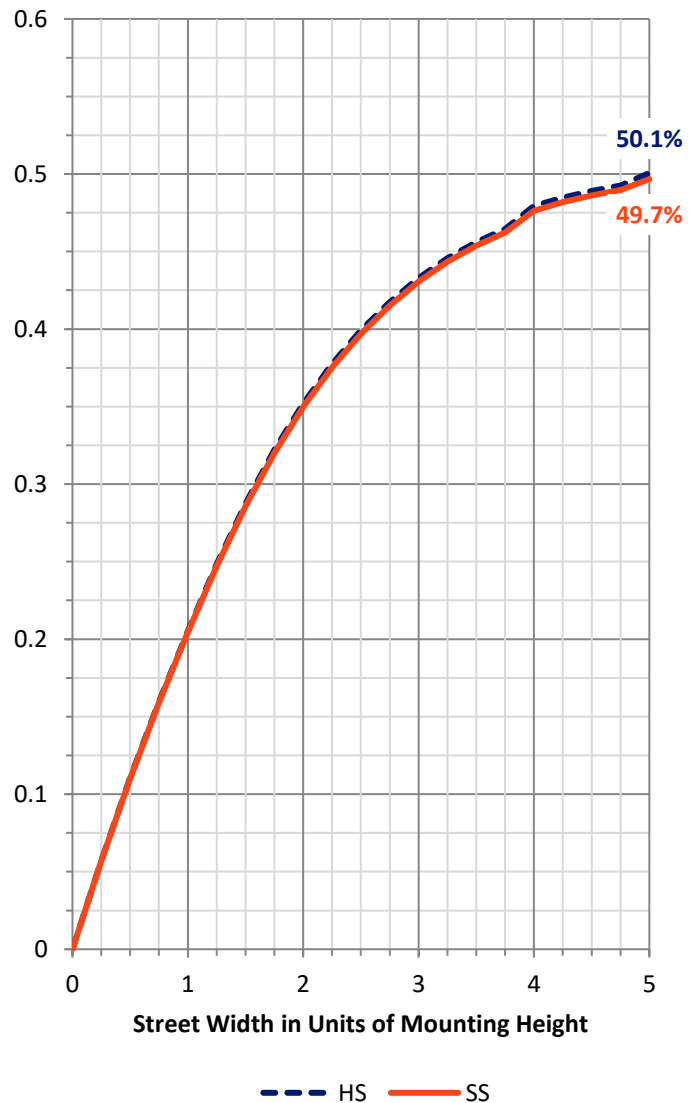
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13733.4	0.0	13733.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13733.4	0.0	13733.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	27466.9	0.0	27466.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.4	0.8
10°-20°	605.0	2.2
20°-30°	1028.0	3.7
30°-40°	1567.9	5.7
40°-50°	2581.8	9.4
50°-60°	4508.5	16.4
60°-70°	7558.6	27.5
70°-80°	8089.3	29.5
80°-90°	1319.4	4.8
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°	27466.9	100.0
0°-180°	27466.9	100.0

Coefficient of Utilization



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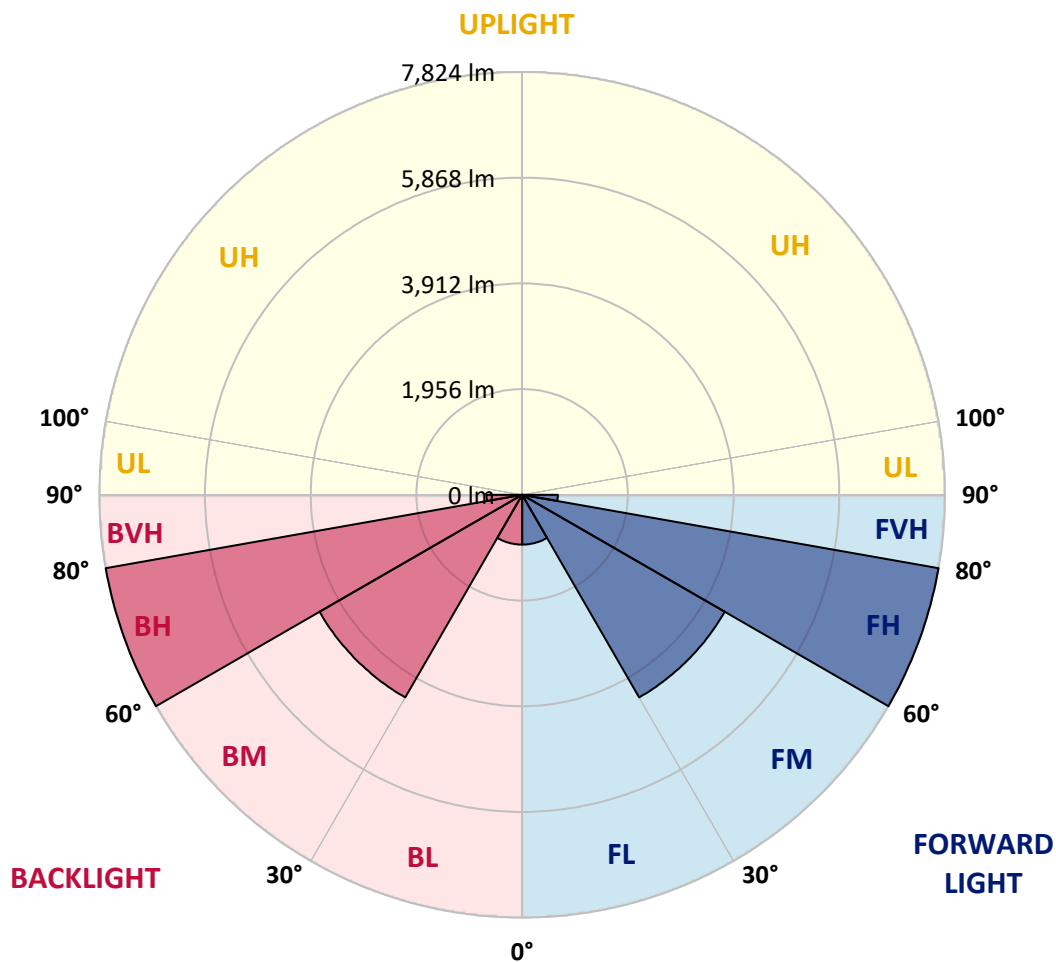
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	920.7	3.4			
FM	(30°-60°)	4329.1	15.8			
FH	(60°-80°)	7824.0	28.5			G4/12000
FVH	(80°-90°)	659.7	2.4			G4/750
BL	(0°-30°)	920.7	3.4	B2/1000		
BM	(30°-60°)	4329.1	15.8	B3/5000		
BH	(60°-80°)	7824.0	28.5	B5		G4/12000
BVH	(80°-90°)	659.7	2.4			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2272.9	2272.9	2272.9	2272.9	2272.9	2272.9	2272.9	2272.9	2272.9	2272.9	2272.9
2.5°	2258.9	2258.9	2258.9	2255.4	2248.4	2244.9	2237.8	2241.3	2241.3	2241.3	2241.3
5°	2230.8	2230.8	2227.3	2223.8	2216.8	2213.3	2206.3	2213.3	2213.3	2213.3	2213.3
7.5°	2178.2	2181.8	2181.8	2178.2	2167.7	2164.2	2153.6	2157.2	2157.2	2160.7	2157.2
10°	2150.1	2150.1	2146.7	2129.1	2111.6	2104.5	2101.0	2111.6	2122.1	2132.6	2132.6
12.5°	2150.1	2150.1	2143.1	2115.0	2090.5	2090.5	2090.5	2104.5	2125.6	2146.7	2150.1
15°	2160.7	2160.7	2146.7	2115.0	2101.0	2104.5	2104.5	2118.6	2143.1	2171.2	2174.7
17.5°	2167.7	2167.7	2150.1	2118.6	2118.6	2129.1	2122.1	2132.6	2157.2	2188.7	2192.2
20°	2178.2	2178.2	2153.6	2129.1	2129.1	2139.6	2139.6	2150.1	2171.2	2202.7	2206.3
22.5°	2199.3	2195.8	2171.2	2150.1	2150.1	2157.2	2164.2	2178.2	2195.8	2223.8	2230.8
25°	2223.8	2223.8	2202.7	2199.3	2206.3	2223.8	2220.3	2216.8	2223.8	2248.4	2258.9
27.5°	2237.8	2237.8	2223.8	2234.3	2262.4	2276.4	2258.9	2244.9	2244.9	2269.4	2272.9
30°	2283.5	2279.9	2265.9	2272.9	2297.5	2304.4	2294.0	2276.4	2286.9	2315.0	2318.5
32.5°	2360.6	2360.6	2339.5	2339.5	2357.1	2385.2	2350.1	2339.5	2353.6	2385.2	2388.7
35°	2479.8	2479.8	2451.8	2437.8	2451.8	2490.4	2437.8	2434.3	2458.8	2493.9	2497.4
37.5°	2630.7	2630.7	2613.2	2578.1	2581.6	2606.1	2560.6	2557.0	2602.6	2641.2	2641.2
40°	2820.1	2830.6	2813.1	2771.0	2756.9	2760.5	2725.4	2728.9	2781.5	2827.1	2827.1
42.5°	3055.1	3062.2	3034.0	3002.5	2985.0	2974.5	2939.4	2946.4	3009.5	3069.1	3069.1
45°	3339.2	3342.7	3314.7	3276.1	3255.0	3248.0	3213.0	3230.5	3300.7	3363.8	3360.2
47.5°	3658.4	3661.9	3633.8	3595.3	3581.2	3591.8	3556.7	3556.7	3619.8	3672.4	3665.5
50°	4019.7	4026.7	3995.1	3977.6	3967.1	3995.1	3953.1	3914.5	3956.6	4009.2	4002.1
52.5°	4419.6	4437.1	4416.0	4423.1	4461.6	4496.7	4426.5	4342.4	4363.4	4398.5	4388.0
55°	4903.6	4924.7	4931.6	4956.2	5057.9	5117.5	5001.8	4861.5	4851.0	4854.5	4837.0
57.5°	5447.3	5461.3	5506.9	5563.1	5773.5	5868.2	5685.8	5443.7	5366.6	5321.0	5310.5
60°	5994.5	6019.0	6131.3	6247.0	6569.7	6741.6	6461.0	6054.1	5889.3	5805.1	5787.5
62.5°	6545.2	6594.3	6776.6	6973.1	7443.1	7699.2	7267.7	6678.4	6439.9	6334.7	6306.6
65°	7183.6	7243.1	7464.1	7713.2	8235.8	8597.1	8074.5	7323.9	7067.7	6927.4	6892.4
67.5°	7930.6	7993.8	8172.6	8449.7	8944.4	9298.6	8835.6	7983.2	7650.1	7471.2	7443.1
70°	8544.5	8600.6	8793.5	9074.1	9442.4	9845.8	9403.8	8509.4	8207.7	8081.5	8064.0
72.5°	8449.7	8523.4	8807.6	9228.4	9754.6	10210.6	9652.9	8611.1	8176.2	8000.8	7944.7
75°	7379.9	7460.7	7797.3	8558.5	9519.6	10200.1	9291.5	7934.1	7422.1	7274.7	7246.7
77.5°	4886.1	4963.2	5531.4	6731.1	8313.0	9295.1	8200.8	6646.9	5822.6	5468.3	5447.3
80°	1974.8	2073.0	2616.6	3889.9	5892.7	7225.6	6082.1	4254.7	2869.2	2315.0	2202.7
82.5°	459.5	547.2	796.2	1434.6	3016.5	4500.2	3279.6	1588.9	922.5	655.9	589.3
85°	192.9	196.5	340.2	466.5	943.5	1817.0	1073.3	578.7	470.0	343.7	336.7
87.5°	73.7	77.2	164.8	196.5	301.7	343.7	364.8	298.2	277.1	171.9	164.8
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)