

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: STREETWORKS

Report Number: P198978

Luminaire Tested: **XNV-AF-01-LED-U-5WQ-7060-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198978  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24131)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: XNV-AF-01-LED-U-5WQ-7060-600  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4146 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G1

Input Watts (W): 34  
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

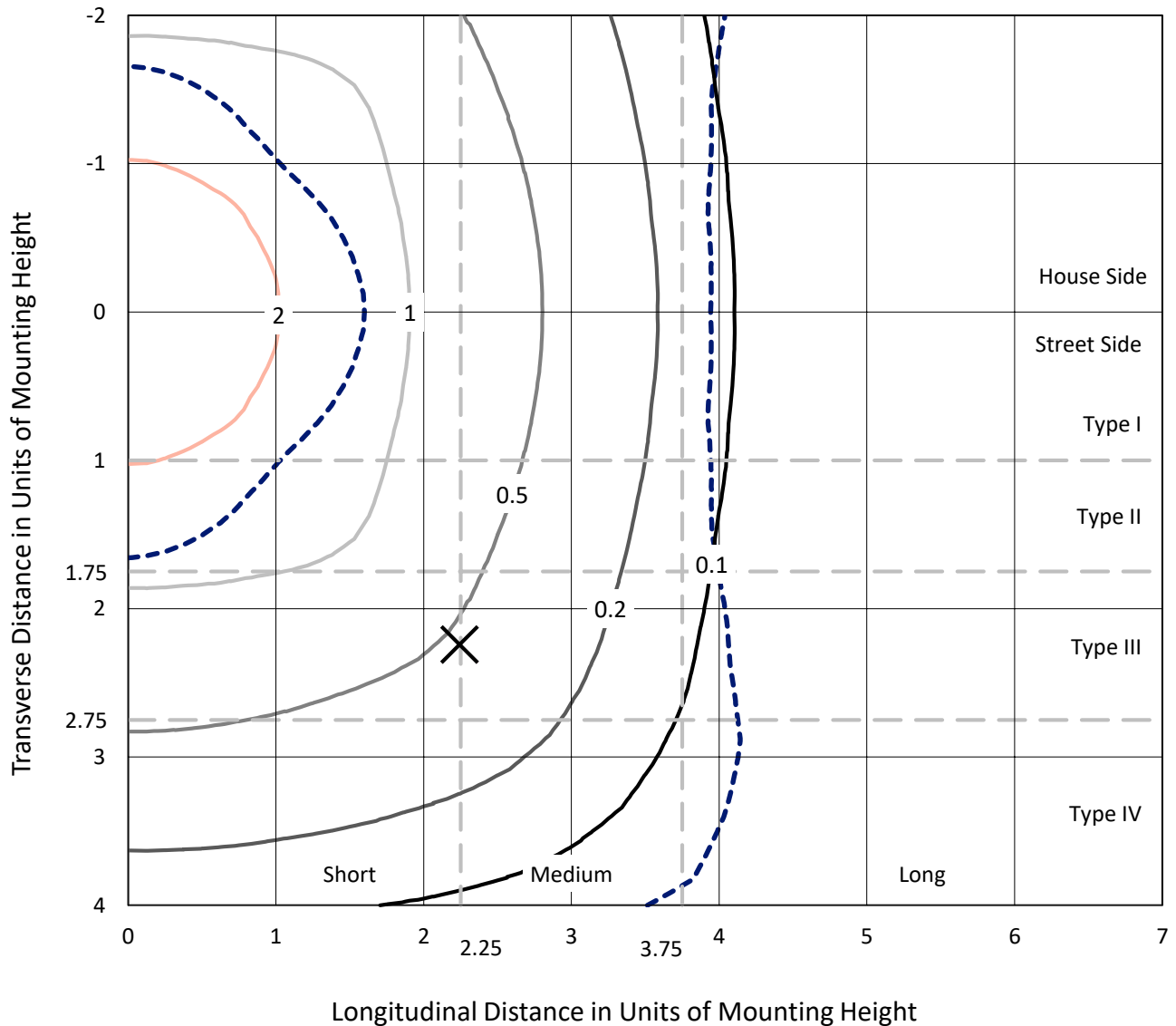


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

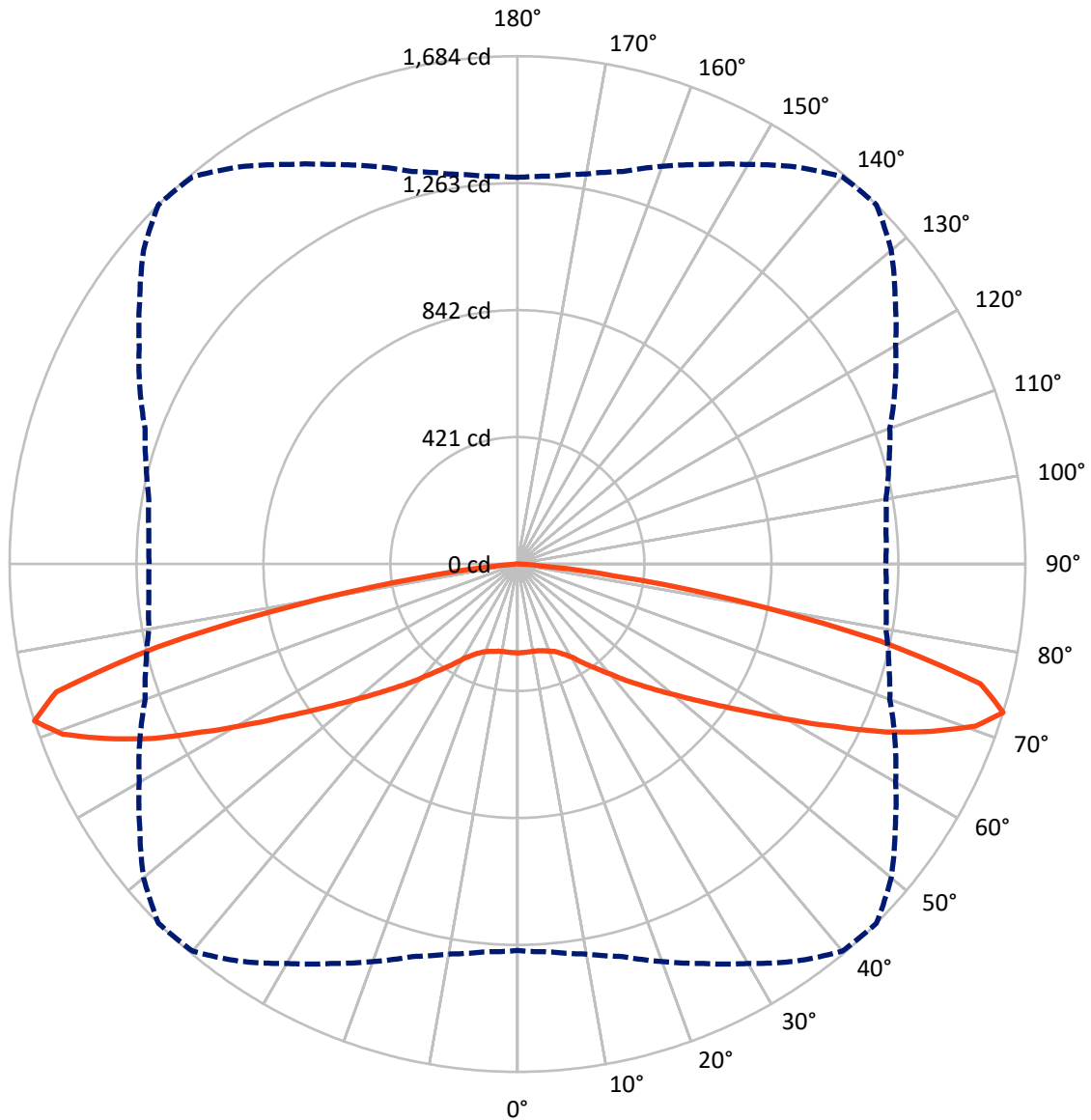


Based on 10 foot mounting height. Maximum calculated value = 2.9 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2073.0	0.0	2073.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2073.0	0.0	2073.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4146.0	0.0	4146.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.1	0.7
10°-20°	85.1	2.1
20°-30°	153.7	3.7
30°-40°	262.2	6.3
40°-50°	446.4	10.8
50°-60°	718.4	17.3
60°-70°	1194.7	28.8
70°-80°	1155.7	27.9
80°-90°	101.7	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°	4146.0	100.0
0°-180°	4146.0	100.0



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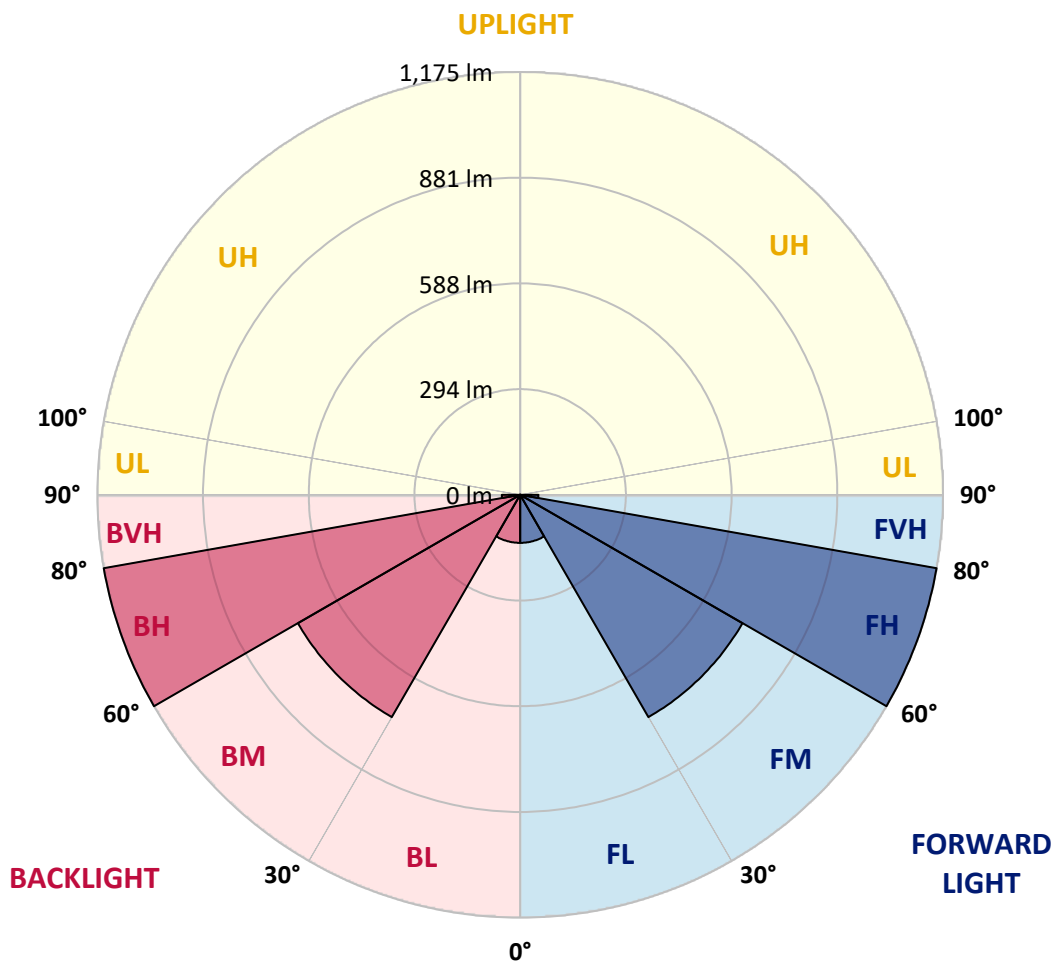
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	133.5	3.2			
FM	(30°-60°)	713.5	17.2			
FH	(60°-80°)	1175.2	28.3			G1/1800
FVH	(80°-90°)	50.9	1.2			G1/100
BL	(0°-30°)	133.5	3.2	B1/500		
BM	(30°-60°)	713.5	17.2	B1/1000		
BH	(60°-80°)	1175.2	28.3	B3/2500		G1/1800
BVH	(80°-90°)	50.9	1.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	294.7	294.7	294.7	294.7	294.7	294.7	294.7	294.7	294.7	294.7	294.7
2.5°	297.0	297.0	297.3	297.0	296.5	296.3	295.5	295.0	294.5	294.2	293.7
5°	297.3	297.3	297.6	297.3	296.8	296.3	295.8	295.0	294.5	294.0	293.7
7.5°	298.3	298.6	298.8	298.6	297.6	297.0	296.3	295.5	294.5	294.0	293.5
10°	300.4	300.4	300.4	300.1	299.3	298.3	297.3	296.5	295.3	294.0	293.2
12.5°	301.9	302.2	302.2	301.6	300.6	299.3	298.3	297.6	296.5	295.5	294.7
15°	304.2	304.2	303.9	302.9	301.4	300.4	299.9	299.6	299.3	298.8	298.1
17.5°	308.8	308.5	307.8	306.2	304.4	303.7	303.2	303.2	303.2	302.9	302.4
20°	315.4	315.4	314.4	311.8	310.3	309.6	308.8	308.8	308.8	308.0	307.3
22.5°	326.1	326.4	324.9	321.8	319.8	318.2	317.2	316.4	315.7	315.2	313.9
25°	340.7	340.4	338.6	334.8	333.3	331.8	329.7	328.4	327.4	326.6	325.1
27.5°	356.0	355.7	353.7	350.4	349.4	347.1	345.5	343.7	342.5	341.2	339.7
30°	375.6	374.4	372.8	370.3	369.8	368.0	365.9	363.4	361.4	359.3	357.5
32.5°	393.3	393.3	391.0	389.7	390.7	389.9	390.2	388.7	387.4	386.6	384.8
35°	417.8	417.8	416.7	415.2	415.5	413.7	413.4	413.7	414.7	414.7	412.6
37.5°	450.4	450.9	447.6	447.1	445.8	443.3	442.0	442.5	444.8	446.1	443.3
40°	491.0	492.0	491.0	487.7	486.1	481.8	479.3	479.3	481.0	482.3	481.3
42.5°	531.1	532.8	531.1	528.5	527.2	523.9	522.6	523.7	526.0	527.5	526.0
45°	575.7	577.0	574.7	571.6	570.1	568.3	567.6	568.3	570.9	572.4	571.9
47.5°	619.6	621.4	618.6	617.3	617.3	615.5	617.6	619.6	621.9	625.5	624.0
50°	662.5	664.8	663.0	663.3	665.3	668.6	672.4	676.5	680.6	684.4	684.9
52.5°	700.8	704.3	704.6	709.2	715.6	720.7	731.4	740.3	750.0	753.3	751.8
55°	741.1	745.9	752.3	759.5	769.7	780.1	798.2	814.3	827.1	835.0	833.7
57.5°	798.8	803.6	810.2	822.0	837.3	851.6	876.3	901.3	920.7	932.7	926.9
60°	873.5	878.6	887.3	899.8	919.7	939.1	973.1	1009.0	1039.2	1052.9	1042.2
62.5°	972.5	977.4	983.0	999.6	1021.8	1046.8	1089.4	1135.6	1173.9	1187.2	1172.1
65°	1113.7	1119.5	1121.3	1134.8	1156.5	1179.8	1225.7	1277.8	1321.4	1343.1	1313.0
67.5°	1272.7	1275.0	1282.1	1297.9	1320.1	1341.0	1377.3	1426.5	1468.4	1480.4	1448.2
70°	1365.8	1370.4	1382.9	1404.8	1431.4	1464.3	1503.9	1556.9	1604.4	1610.0	1569.2
72.5°	1281.6	1291.0	1313.2	1347.4	1403.1	1461.5	1529.6	1608.0	1676.1	1684.0	1618.4
75°	1027.9	1038.6	1065.2	1102.7	1168.5	1255.3	1353.8	1471.5	1573.5	1586.5	1499.8
77.5°	547.9	561.2	599.7	650.2	744.1	859.0	977.6	1111.9	1198.6	1228.0	1165.5
80°	138.1	145.2	163.8	193.4	257.0	349.6	451.9	596.4	704.1	749.8	704.1
82.5°	53.6	58.9	64.1	67.6	73.8	86.5	119.4	194.7	262.3	323.1	279.7
85°	20.7	21.9	31.6	36.0	36.0	39.6	45.4	53.6	66.4	72.5	60.7
87.5°	8.2	8.9	11.0	16.8	17.4	15.3	16.3	18.4	14.0	11.7	13.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	294.7	294.7	294.7	294.7	294.7	294.7	294.7	294.7
2.5°	293.5	293.2	292.7	293.0	292.7	292.7	292.7	292.7
5°	293.2	293.2	292.7	292.7	292.7	293.0	292.7	292.7
7.5°	293.0	292.7	292.2	291.9	291.9	291.7	291.7	291.7
10°	292.5	291.9	291.4	291.2	291.2	290.7	290.7	290.7
12.5°	293.7	293.0	292.5	292.2	292.2	292.2	292.5	292.5
15°	297.3	295.8	295.0	294.7	295.0	295.5	295.8	296.0
17.5°	301.1	299.6	298.3	297.8	298.1	298.8	299.6	300.1
20°	306.0	304.7	303.2	302.7	302.7	303.7	304.2	305.0
22.5°	312.9	311.8	310.6	309.8	309.3	310.6	311.3	311.8
25°	323.8	322.8	321.8	321.0	320.8	322.1	322.6	322.8
27.5°	338.4	337.4	336.9	336.6	335.8	336.3	337.1	336.9
30°	357.3	358.0	357.3	357.3	356.0	356.5	356.0	355.5
32.5°	382.5	381.8	379.5	377.9	376.2	376.2	375.4	374.6
35°	407.8	405.2	404.0	404.7	404.0	404.5	403.2	401.9
37.5°	437.7	436.1	435.9	438.2	437.7	438.2	438.2	436.4
40°	477.2	476.2	478.0	481.8	483.3	483.1	483.6	481.3
42.5°	522.6	520.9	521.6	524.9	526.7	527.2	527.0	524.9
45°	568.1	568.6	568.6	572.1	573.9	575.0	573.2	572.4
47.5°	619.4	620.1	618.3	620.6	621.1	622.9	621.4	620.1
50°	678.6	675.8	671.7	672.4	672.4	671.9	670.1	668.6
52.5°	744.7	738.3	730.6	728.1	725.3	722.5	718.9	716.1
55°	819.9	809.0	795.2	788.8	783.4	777.1	768.9	766.1
57.5°	907.2	888.3	870.0	858.5	844.7	836.3	825.8	825.3
60°	1010.8	985.3	952.9	935.8	922.0	912.1	904.2	901.1
62.5°	1130.5	1086.6	1051.7	1033.3	1017.2	1011.1	1001.1	1002.4
65°	1253.3	1208.6	1174.7	1159.9	1144.8	1140.7	1131.5	1134.8
67.5°	1386.2	1349.5	1312.2	1298.4	1284.6	1280.6	1271.1	1273.9
70°	1505.4	1458.7	1416.3	1389.3	1365.8	1346.9	1334.9	1330.1
72.5°	1529.1	1448.2	1381.6	1314.0	1275.0	1240.8	1226.7	1221.4
75°	1374.0	1248.4	1153.5	1074.1	1030.2	980.5	975.1	967.7
77.5°	1068.8	925.8	811.0	708.9	650.0	589.2	568.3	552.5
80°	637.5	490.0	379.7	266.2	217.2	174.8	164.3	153.4
82.5°	228.1	146.2	98.5	76.8	68.6	63.3	59.2	53.8
85°	55.1	46.4	43.9	39.8	39.3	33.4	23.7	21.2
87.5°	17.6	16.1	16.3	15.6	16.3	12.2	10.0	8.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)