

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: P198498

Luminaire Tested: **XNV-AF-01-LED-U-5WQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198498
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-7030-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 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: 3670 lumens
Efficiency: N/A
Efficacy: 107.9 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

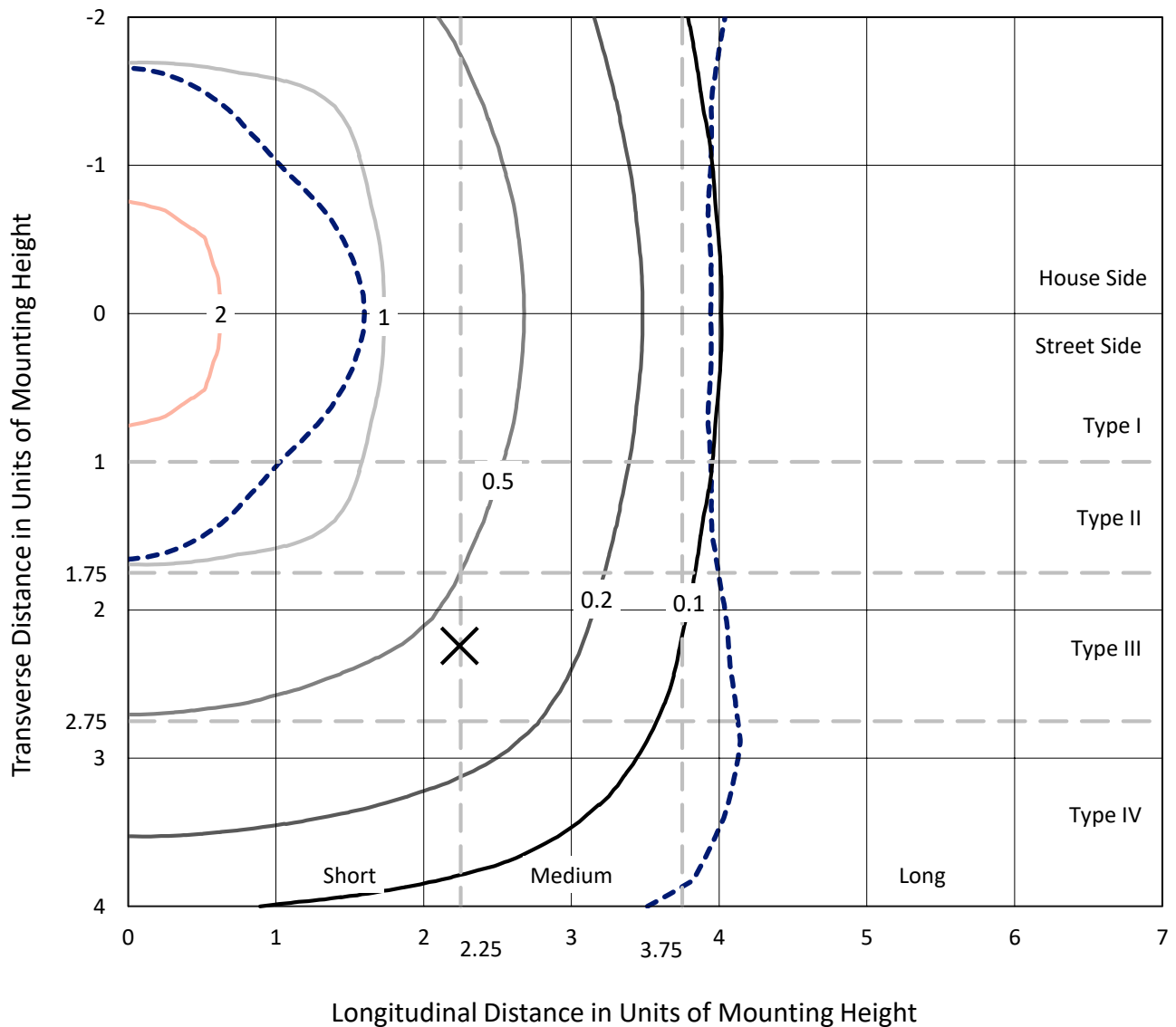


REPORT NUMBER: P198498

CATALOG NUMBER: XNV-AF-01-LED-U-5WQ-7030-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

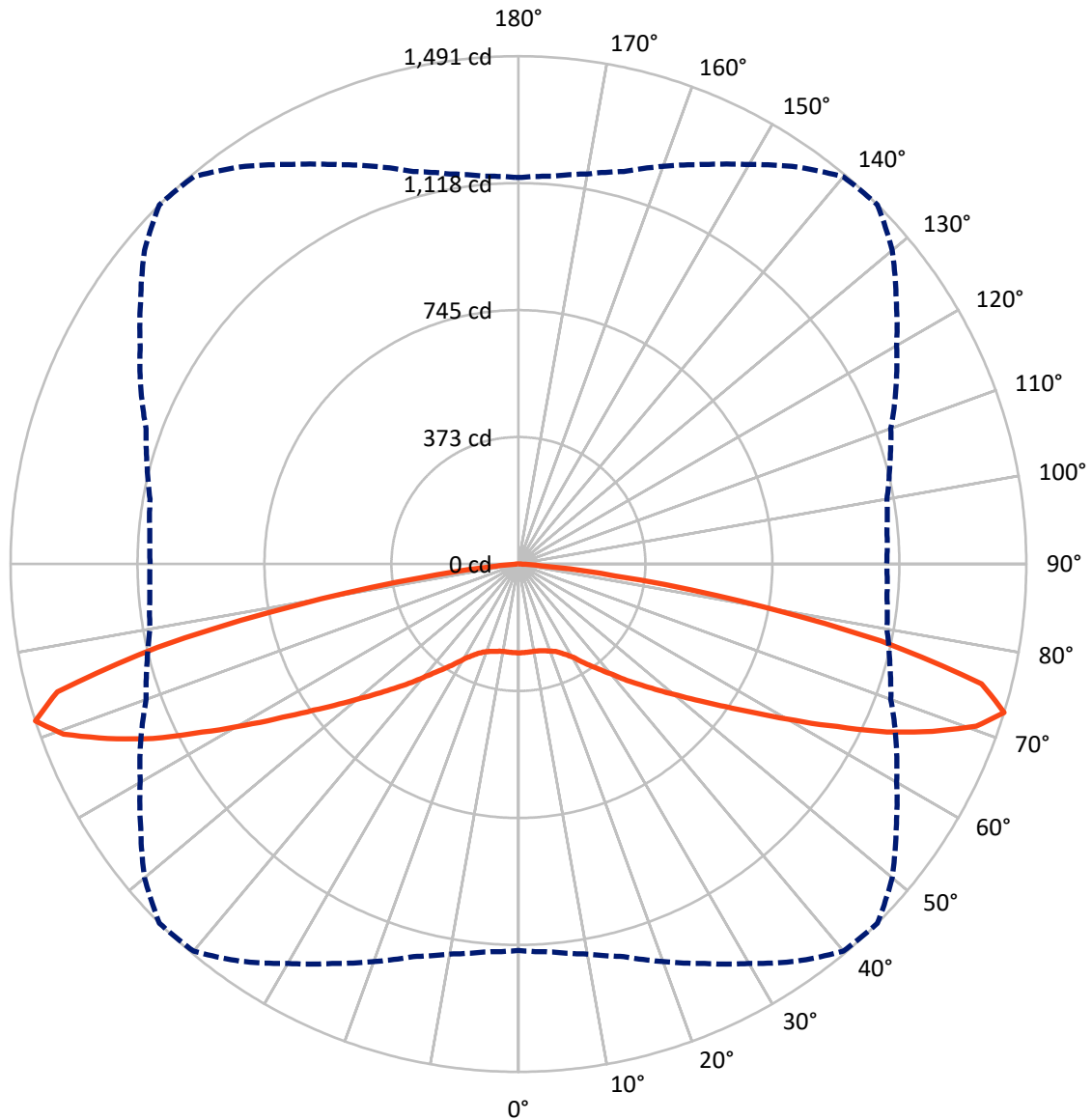


Based on 10 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P198498

CATALOG NUMBER: XNV-AF-01-LED-U-5WQ-7030-600

Luminous Intensity Polar Plot



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



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CATALOG NUMBER: XNV-AF-01-LED-U-5WQ-7030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1835.0	0.0	1835.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1835.0	0.0	1835.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3670.0	0.0	3670.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.9	0.7
10°-20°	75.4	2.1
20°-30°	136.1	3.7
30°-40°	232.1	6.3
40°-50°	395.1	10.8
50°-60°	635.9	17.3
60°-70°	1057.5	28.8
70°-80°	1023.0	27.9
80°-90°	90.0	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°	3670.0	100.0
0°-180°	3670.0	100.0



REPORT NUMBER: P198498

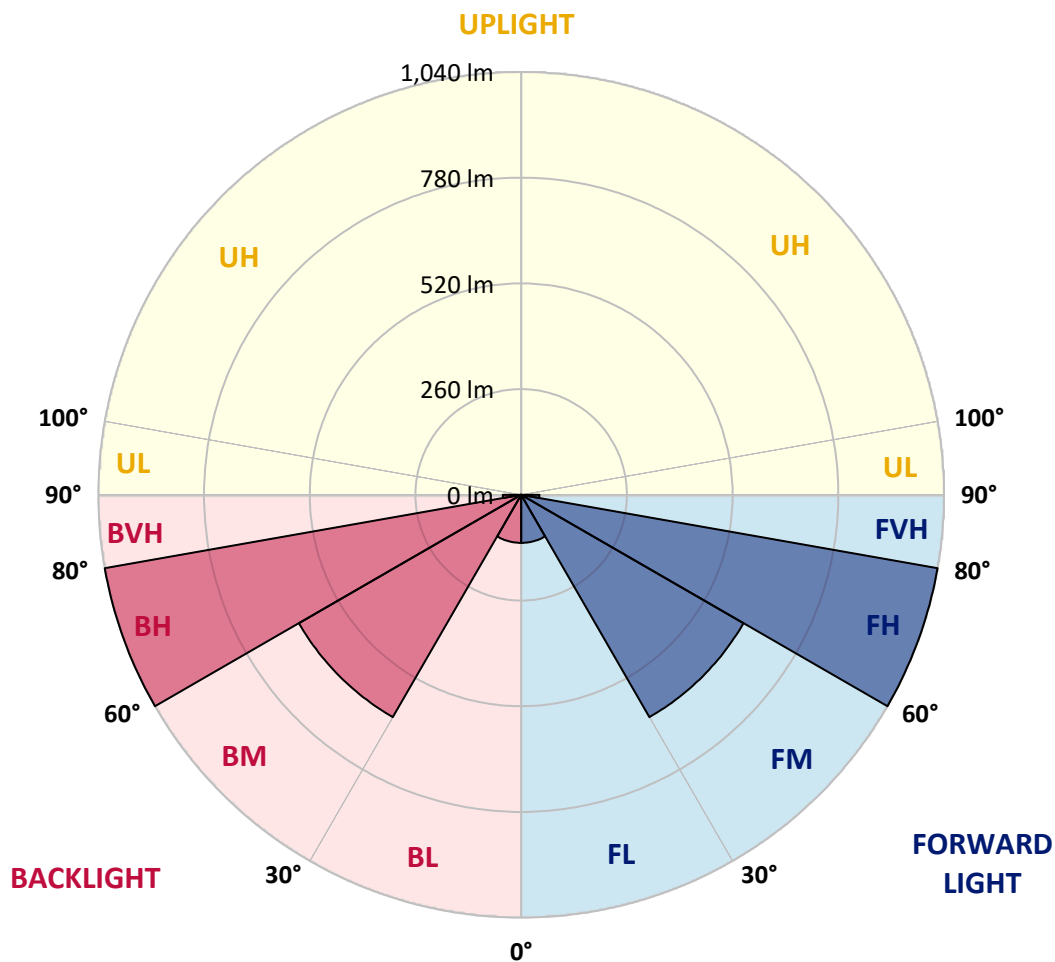
CATALOG NUMBER: XNV-AF-01-LED-U-5WQ-7030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	118.2	3.2			
FM (30°-60°)	631.6	17.2			
FH (60°-80°)	1040.3	28.3			G1/1800
FVH (80°-90°)	45.0	1.2			G1/100
BL (0°-30°)	118.2	3.2	B1/500		
BM (30°-60°)	631.6	17.2	B1/1000		
BH (60°-80°)	1040.3	28.3	B3/2500		G1/1800
BVH (80°-90°)	45.0	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





REPORT NUMBER: P198498

CATALOG NUMBER: XNV-AF-01-LED-U-5WQ-7030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	260.9	260.9	260.9	260.9	260.9	260.9	260.9	260.9	260.9	260.9	260.9
2.5°	262.9	262.9	263.2	262.9	262.5	262.3	261.6	261.1	260.7	260.5	260.0
5°	263.2	263.2	263.4	263.2	262.7	262.3	261.8	261.1	260.7	260.2	260.0
7.5°	264.1	264.3	264.5	264.3	263.4	262.9	262.3	261.6	260.7	260.2	259.8
10°	265.9	265.9	265.9	265.7	265.0	264.1	263.2	262.5	261.4	260.2	259.6
12.5°	267.2	267.5	267.5	267.0	266.1	265.0	264.1	263.4	262.5	261.6	260.9
15°	269.3	269.3	269.0	268.1	266.8	265.9	265.4	265.2	265.0	264.5	263.8
17.5°	273.3	273.1	272.4	271.1	269.5	268.8	268.4	268.4	268.4	268.1	267.7
20°	279.2	279.2	278.3	276.0	274.7	274.0	273.3	273.3	273.3	272.7	272.0
22.5°	288.7	288.9	287.6	284.9	283.0	281.7	280.8	280.1	279.4	279.0	277.9
25°	301.6	301.3	299.8	296.4	295.0	293.7	291.9	290.7	289.8	289.1	287.8
27.5°	315.1	314.9	313.1	310.2	309.3	307.2	305.9	304.3	303.2	302.0	300.7
30°	332.5	331.4	330.0	327.8	327.3	325.7	323.9	321.7	319.9	318.1	316.5
32.5°	348.1	348.1	346.1	344.9	345.8	345.2	345.4	344.0	342.9	342.2	340.7
35°	369.8	369.8	368.9	367.5	367.8	366.2	366.0	366.2	367.1	367.1	365.3
37.5°	398.7	399.2	396.2	395.8	394.6	392.4	391.3	391.7	393.7	394.9	392.4
40°	434.6	435.5	434.6	431.7	430.3	426.5	424.2	424.2	425.8	426.9	426.0
42.5°	470.1	471.7	470.1	467.8	466.7	463.8	462.6	463.5	465.6	466.9	465.6
45°	509.6	510.8	508.7	506.0	504.7	503.1	502.4	503.1	505.3	506.7	506.2
47.5°	548.5	550.1	547.6	546.4	546.4	544.9	546.7	548.5	550.5	553.7	552.3
50°	586.4	588.5	586.9	587.1	588.9	591.8	595.2	598.8	602.5	605.9	606.3
52.5°	620.3	623.5	623.7	627.8	633.4	637.9	647.4	655.3	663.9	666.8	665.5
55°	656.0	660.3	665.9	672.3	681.3	690.6	706.6	720.8	732.1	739.1	738.0
57.5°	707.1	711.3	717.2	727.6	741.2	753.8	775.7	797.9	815.0	825.6	820.5
60°	773.2	777.8	785.4	796.5	814.1	831.3	861.3	893.2	919.8	932.0	922.6
62.5°	860.9	865.2	870.1	884.8	904.5	926.6	964.3	1005.2	1039.1	1050.9	1037.5
65°	985.8	991.0	992.6	1004.6	1023.8	1044.3	1085.0	1131.1	1169.7	1188.9	1162.2
67.5°	1126.5	1128.6	1134.9	1148.9	1168.6	1187.1	1219.2	1262.8	1299.8	1310.4	1282.0
70°	1209.0	1213.1	1224.1	1243.6	1267.0	1296.2	1331.2	1378.2	1420.2	1425.2	1389.0
72.5°	1134.4	1142.8	1162.5	1192.7	1242.0	1293.7	1354.0	1423.4	1483.7	1490.7	1432.6
75°	909.9	919.4	942.9	976.1	1034.4	1111.2	1198.4	1302.5	1392.9	1404.4	1327.6
77.5°	485.0	496.7	530.9	575.6	658.7	760.4	865.4	984.2	1061.0	1087.0	1031.7
80°	122.2	128.5	145.0	171.2	227.5	309.5	400.1	527.9	623.2	663.7	623.2
82.5°	47.4	52.2	56.7	59.9	65.3	76.6	105.7	172.4	232.2	286.0	247.6
85°	18.3	19.4	28.0	31.9	31.9	35.0	40.2	47.4	58.7	64.2	53.8
87.5°	7.2	7.9	9.7	14.9	15.4	13.6	14.5	16.3	12.4	10.4	11.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P198498

CATALOG NUMBER: XNV-AF-01-LED-U-5WQ-7030-600

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	260.9	260.9	260.9	260.9	260.9	260.9	260.9	260.9
2.5°	259.8	259.6	259.1	259.3	259.1	259.1	259.1	259.1
5°	259.6	259.6	259.1	259.1	259.1	259.3	259.1	259.1
7.5°	259.3	259.1	258.7	258.4	258.4	258.2	258.2	258.2
10°	258.9	258.4	258.0	257.7	257.7	257.3	257.3	257.3
12.5°	260.0	259.3	258.9	258.7	258.7	258.7	258.9	258.9
15°	263.2	261.8	261.1	260.9	261.1	261.6	261.8	262.0
17.5°	266.6	265.2	264.1	263.6	263.8	264.5	265.2	265.7
20°	270.8	269.7	268.4	267.9	267.9	268.8	269.3	269.9
22.5°	276.9	276.0	274.9	274.2	273.8	274.9	275.6	276.0
25°	286.7	285.8	284.9	284.2	284.0	285.1	285.5	285.8
27.5°	299.5	298.6	298.2	298.0	297.3	297.7	298.4	298.2
30°	316.3	316.9	316.3	316.3	315.1	315.6	315.1	314.7
32.5°	338.6	337.9	335.9	334.6	333.0	333.0	332.3	331.6
35°	361.0	358.7	357.6	358.3	357.6	358.0	356.9	355.8
37.5°	387.4	386.1	385.8	387.9	387.4	387.9	387.9	386.3
40°	422.4	421.5	423.1	426.5	427.8	427.6	428.1	426.0
42.5°	462.6	461.1	461.7	464.7	466.2	466.7	466.5	464.7
45°	502.8	503.3	503.3	506.5	508.0	508.9	507.4	506.7
47.5°	548.2	548.9	547.3	549.4	549.8	551.4	550.1	548.9
50°	600.7	598.2	594.6	595.2	595.2	594.8	593.2	591.8
52.5°	659.2	653.5	646.7	644.5	642.0	639.5	636.3	633.9
55°	725.8	716.1	703.9	698.2	693.5	687.9	680.6	678.1
57.5°	803.1	786.3	770.1	759.9	747.7	740.3	731.0	730.5
60°	894.8	872.2	843.5	828.4	816.2	807.4	800.3	797.6
62.5°	1000.7	961.9	930.9	914.7	900.4	895.0	886.2	887.3
65°	1109.4	1069.8	1039.8	1026.7	1013.4	1009.8	1001.6	1004.6
67.5°	1227.1	1194.5	1161.6	1149.4	1137.2	1133.5	1125.2	1127.7
70°	1332.6	1291.2	1253.7	1229.8	1209.0	1192.3	1181.7	1177.4
72.5°	1353.6	1282.0	1223.0	1163.1	1128.6	1098.3	1085.9	1081.1
75°	1216.2	1105.1	1021.0	950.8	911.9	867.9	863.1	856.6
77.5°	946.1	819.5	717.9	627.5	575.4	521.6	503.1	489.1
80°	564.3	433.7	336.1	235.6	192.2	154.7	145.5	135.8
82.5°	202.0	129.4	87.2	68.0	60.8	56.0	52.4	47.7
85°	48.8	41.1	38.9	35.2	34.8	29.6	21.0	18.7
87.5°	15.6	14.2	14.5	13.8	14.5	10.8	8.8	7.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)