

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: P199132

Luminaire Tested: **XNV-AF-01-LED-U-5NQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199132
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24130)
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-5NQ-8030-800
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4099 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

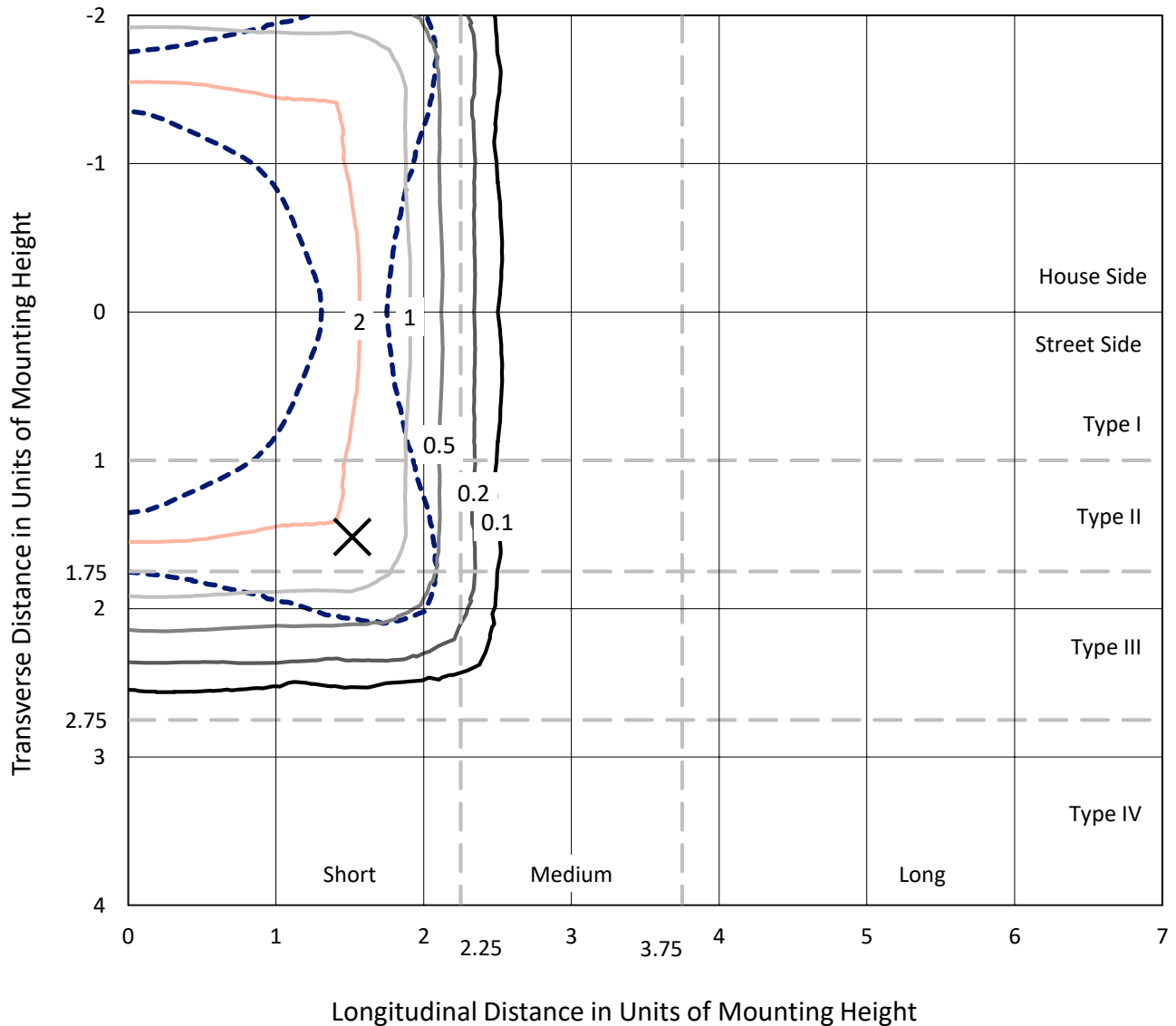
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P199132
 CATALOG NUMBER: XNV-AF-01-LED-U-5NQ-8030-800

Iso-Footcandle Lines of Horizontal Illumination

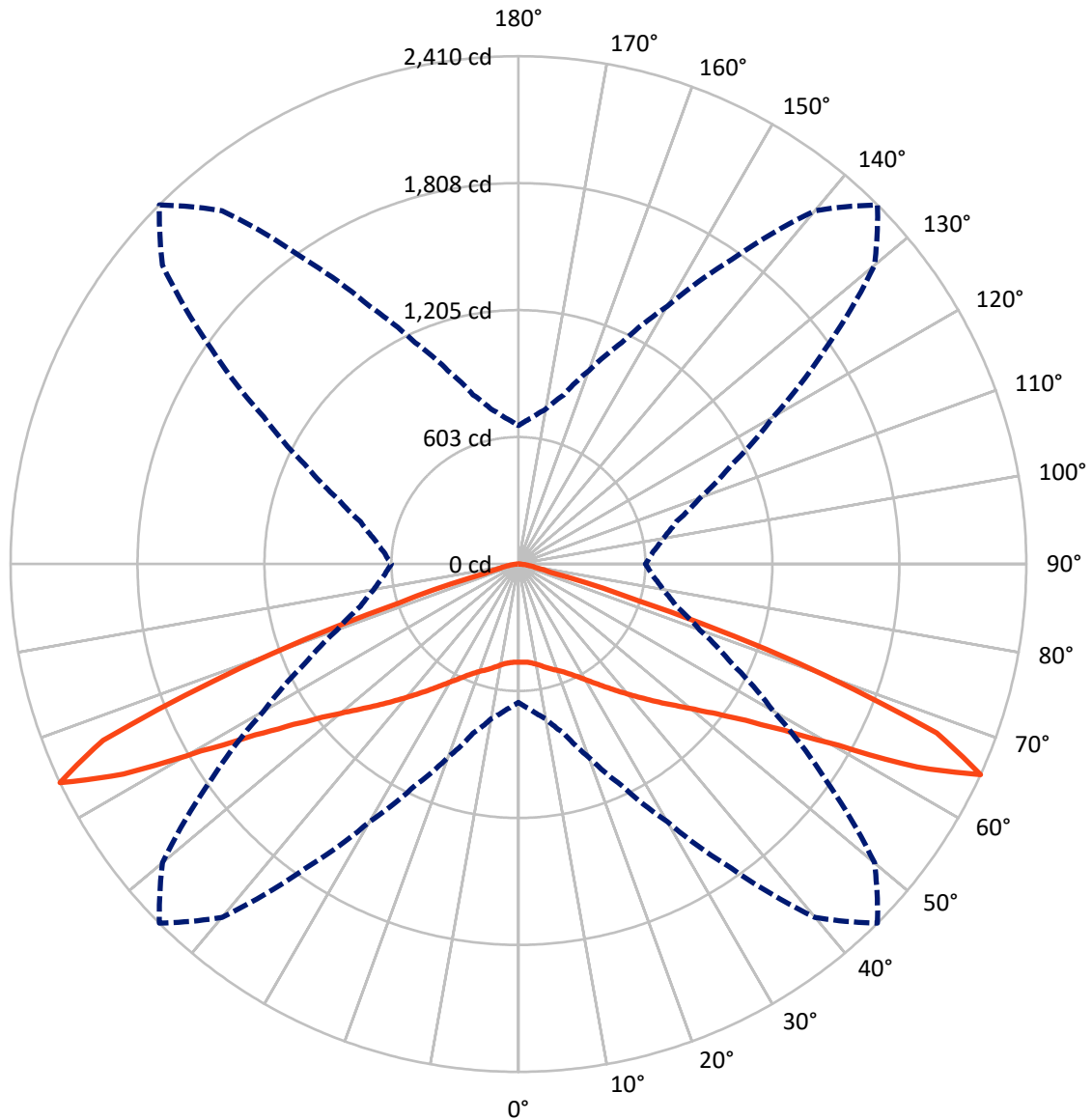
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P199132
CATALOG NUMBER: XNV-AF-01-LED-U-5NQ-8030-800

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P199132

CATALOG NUMBER: XNV-AF-01-LED-U-5NQ-8030-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2049.5	0.0	2049.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2049.5	0.0	2049.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4099.0	0.0	4099.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.4	1.1
10°-20°	145.5	3.6
20°-30°	271.5	6.6
30°-40°	457.7	11.2
40°-50°	743.5	18.1
50°-60°	1164.9	28.4
60°-70°	1099.6	26.8
70°-80°	148.2	3.6
80°-90°	22.6	0.6
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°	4099.0	100.0
0°-180°	4099.0	100.0



REPORT NUMBER: P199132

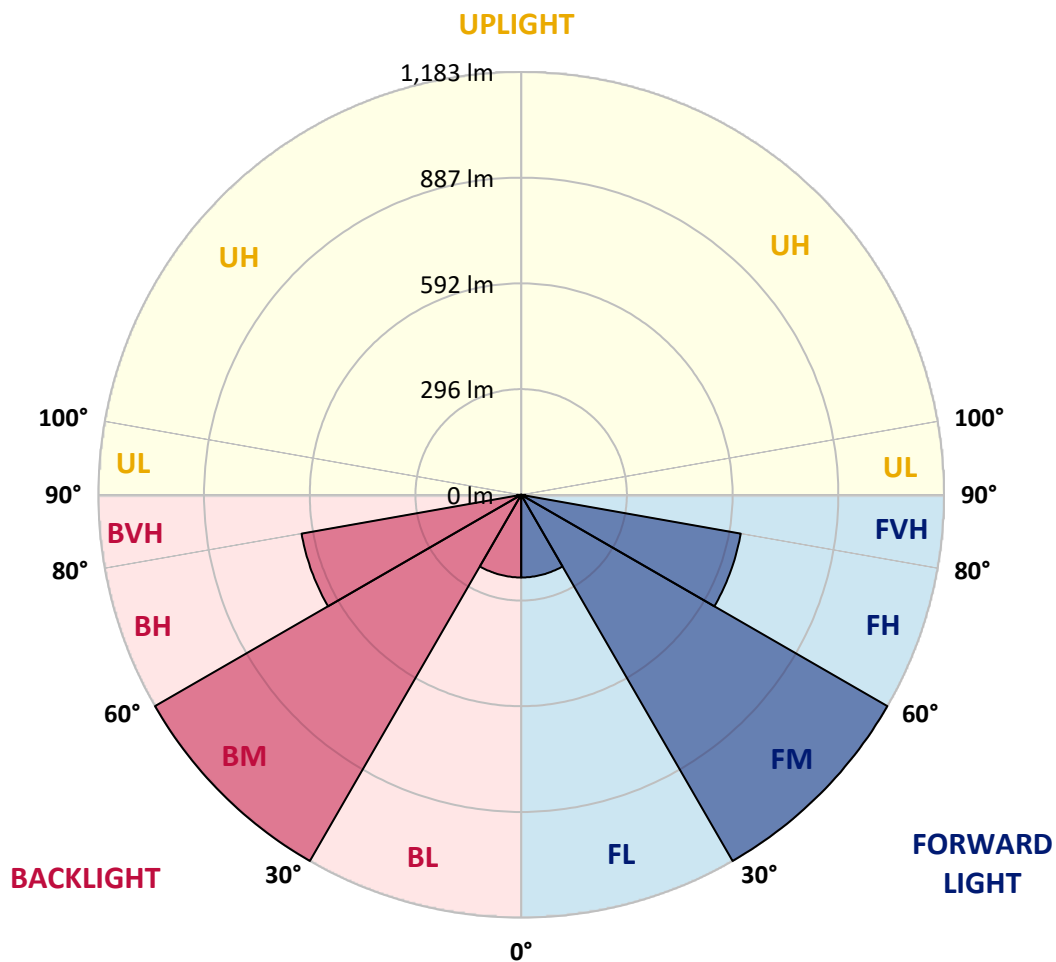
CATALOG NUMBER: XNV-AF-01-LED-U-5NQ-8030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	231.2	5.6			
FM (30°-60°)	1183.1	28.9			
FH (60°-80°)	623.9	15.2			G0/660
FVH (80°-90°)	11.3	0.3			G1/100
BL (0°-30°)	231.2	5.6	B1/500		
BM (30°-60°)	1183.1	28.9	B2/2500		
BH (60°-80°)	623.9	15.2	B2/1000		G0/660
BVH (80°-90°)	11.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





REPORT NUMBER: P199132

CATALOG NUMBER: XNV-AF-01-LED-U-5NQ-8030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3
2.5°	470.1	470.1	470.9	470.6	469.6	468.8	468.0	467.0	466.5	466.0	465.7
5°	472.6	472.6	473.4	473.2	472.4	471.4	470.9	470.1	469.3	468.8	469.1
7.5°	479.0	479.3	479.5	479.3	478.5	477.7	476.7	476.5	475.4	474.7	475.2
10°	488.7	488.7	489.0	489.2	488.7	486.9	486.9	486.4	485.4	484.4	484.6
12.5°	499.5	499.5	499.7	499.7	499.7	498.7	498.9	498.7	497.4	496.9	497.4
15°	509.9	510.2	510.2	510.7	510.7	510.9	512.0	512.0	511.5	511.2	511.2
17.5°	522.2	522.7	522.9	523.7	524.0	524.5	525.5	525.8	526.0	525.2	525.5
20°	538.5	538.8	539.5	539.8	540.8	540.8	541.3	541.1	540.6	539.5	539.5
22.5°	556.9	557.4	558.9	558.9	560.2	559.5	559.7	558.9	557.7	557.2	556.6
25°	580.9	581.7	582.9	582.4	582.9	581.7	581.7	581.7	580.9	580.1	579.9
27.5°	611.3	610.0	611.3	610.3	610.0	609.0	609.2	608.7	608.0	607.7	606.7
30°	643.0	641.4	642.2	642.4	641.9	641.7	640.7	639.9	638.6	638.9	638.1
32.5°	679.2	677.7	678.4	678.7	678.2	678.7	678.4	676.7	675.1	676.1	676.1
35°	722.4	721.3	723.4	724.2	722.6	721.9	720.8	718.8	716.5	718.0	718.3
37.5°	774.2	772.9	774.5	776.5	773.7	772.2	768.1	765.0	763.5	764.2	765.3
40°	828.1	828.3	832.7	833.2	830.1	828.3	824.2	819.7	815.3	815.3	816.6
42.5°	884.8	885.5	890.6	892.4	891.4	888.1	882.5	876.8	871.2	872.3	873.8
45°	948.9	947.8	953.2	957.5	956.8	955.7	950.4	940.2	935.1	934.8	937.4
47.5°	1016.3	1018.3	1023.9	1031.3	1031.1	1028.5	1021.6	1012.2	1002.7	1003.5	1006.6
50°	1094.9	1097.7	1107.2	1114.6	1115.6	1114.8	1106.7	1095.7	1082.4	1083.2	1087.3
52.5°	1165.4	1169.5	1180.5	1195.8	1205.2	1209.6	1204.2	1194.0	1180.5	1181.2	1185.6
55°	1229.2	1235.6	1251.9	1272.9	1291.8	1309.4	1317.3	1317.1	1307.1	1309.4	1315.0
57.5°	1269.3	1278.2	1303.0	1336.7	1374.3	1409.7	1440.4	1469.2	1475.6	1487.6	1487.6
60°	1215.4	1236.4	1269.3	1327.0	1400.8	1480.5	1566.8	1650.8	1704.9	1747.6	1724.6
62.5°	1015.0	1045.9	1092.1	1168.2	1283.1	1425.3	1598.7	1794.0	1997.8	2122.4	2031.0
65°	656.7	695.6	745.9	831.4	976.2	1159.3	1411.8	1762.9	2189.3	2410.4	2206.2
67.5°	260.2	286.5	317.1	377.9	503.5	683.3	966.7	1399.8	1933.2	2141.8	1912.8
70°	124.4	128.7	134.6	147.6	179.0	241.6	388.4	689.7	1185.6	1405.4	1157.2
72.5°	89.9	90.6	93.5	97.8	107.0	119.8	145.5	210.9	408.8	594.4	409.3
75°	68.2	69.2	70.7	73.0	77.9	84.0	93.7	112.4	139.9	161.4	139.7
77.5°	51.8	52.9	54.1	56.4	59.0	63.3	66.9	74.3	86.1	90.6	90.1
80°	37.8	39.6	41.6	43.7	45.5	47.5	47.7	51.3	58.0	62.3	61.0
82.5°	24.0	25.5	30.9	33.2	33.4	34.0	33.7	34.0	37.5	40.6	39.6
85°	15.3	16.3	19.2	21.7	21.2	22.2	22.2	21.7	20.2	17.4	20.7
87.5°	7.7	7.9	9.2	11.5	11.0	9.7	9.4	9.4	6.9	5.9	6.4
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: P199132

CATALOG NUMBER: XNV-AF-01-LED-U-5NQ-8030-800

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3
2.5°	465.0	465.5	464.7	464.7	464.5	465.0	464.2	464.2
5°	468.6	469.3	469.1	469.1	469.6	470.1	469.8	469.6
7.5°	474.9	475.4	476.0	476.2	476.7	476.5	477.0	476.7
10°	484.6	484.1	484.9	484.1	484.4	483.9	484.1	484.1
12.5°	496.9	496.1	495.6	495.1	495.1	494.1	494.1	494.3
15°	510.9	509.7	508.6	508.1	507.6	507.6	506.9	507.4
17.5°	524.7	523.5	521.7	521.7	520.9	520.4	519.9	521.2
20°	539.3	538.0	537.0	536.7	535.2	534.7	534.9	536.5
22.5°	556.1	555.4	555.4	554.9	553.8	553.1	553.1	554.9
25°	578.9	577.3	577.6	577.8	577.3	577.3	576.8	578.1
27.5°	606.7	605.4	606.2	606.7	606.2	607.0	606.2	607.2
30°	639.4	638.6	639.4	640.1	638.9	638.9	638.4	639.1
32.5°	678.4	677.4	677.9	677.9	676.1	674.6	672.6	674.1
35°	721.3	720.1	721.1	721.9	719.8	718.3	715.2	716.5
37.5°	768.6	769.1	770.4	773.7	773.2	770.6	768.3	769.3
40°	821.4	824.0	829.6	831.9	831.4	828.8	825.8	826.3
42.5°	881.2	884.5	890.4	894.2	892.4	888.8	885.0	886.6
45°	946.3	951.4	959.1	962.9	960.6	956.8	951.4	954.2
47.5°	1015.2	1025.5	1035.7	1040.8	1040.0	1034.6	1027.8	1028.5
50°	1097.7	1111.3	1124.3	1129.4	1125.6	1117.4	1107.7	1107.4
52.5°	1200.4	1214.9	1225.6	1224.4	1214.9	1202.2	1191.2	1190.7
55°	1328.5	1333.4	1331.9	1320.9	1304.3	1284.4	1270.3	1268.0
57.5°	1483.5	1467.2	1443.2	1410.0	1372.7	1334.9	1309.4	1300.0
60°	1673.0	1599.2	1513.4	1423.0	1340.6	1278.8	1239.7	1215.9
62.5°	1829.5	1615.8	1424.0	1267.0	1138.6	1062.2	1008.9	975.9
65°	1775.9	1396.0	1118.1	915.7	775.5	696.6	640.1	602.6
67.5°	1372.0	932.8	649.1	449.9	341.1	288.8	252.3	228.5
70°	691.7	357.7	216.8	153.0	130.7	121.5	115.4	111.8
72.5°	203.0	135.6	112.6	99.6	91.7	86.1	82.5	80.7
75°	112.4	91.7	80.9	73.5	68.4	64.6	62.3	60.8
77.5°	77.4	66.6	61.3	56.4	52.3	49.5	47.7	46.2
80°	54.1	48.8	46.5	43.9	40.9	38.6	36.0	35.0
82.5°	36.0	33.7	33.2	31.2	29.4	26.8	22.2	20.7
85°	21.2	20.9	20.9	20.2	18.9	16.6	13.3	13.3
87.5°	7.4	7.7	7.9	8.4	8.2	6.9	5.6	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)