

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: P196903

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P196903
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: NVN-AF-01-LED-U-5NQ-8030-800
Description: NAVION 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: 4140 lumens
Efficiency: N/A
Efficacy: 94.1 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

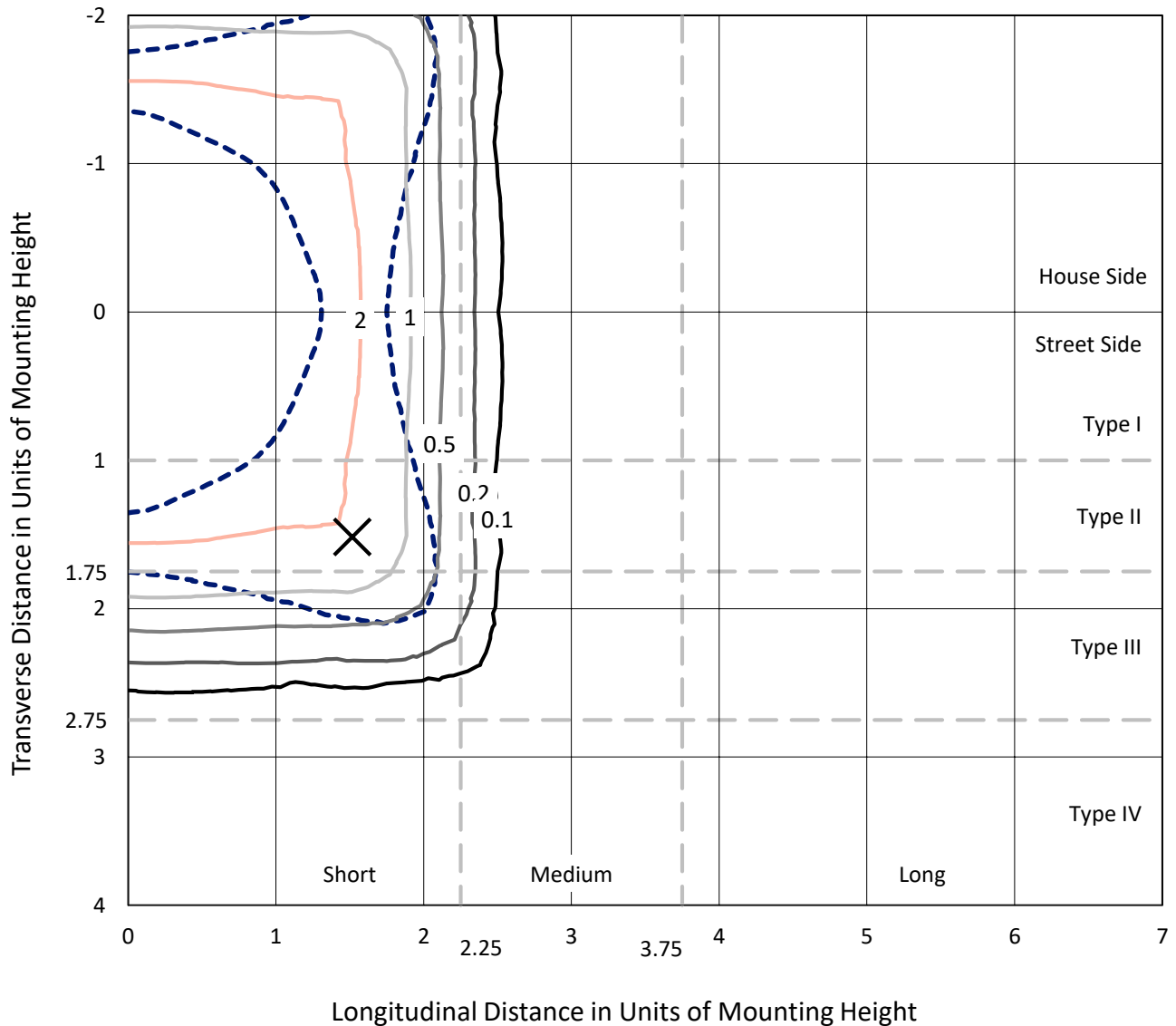


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

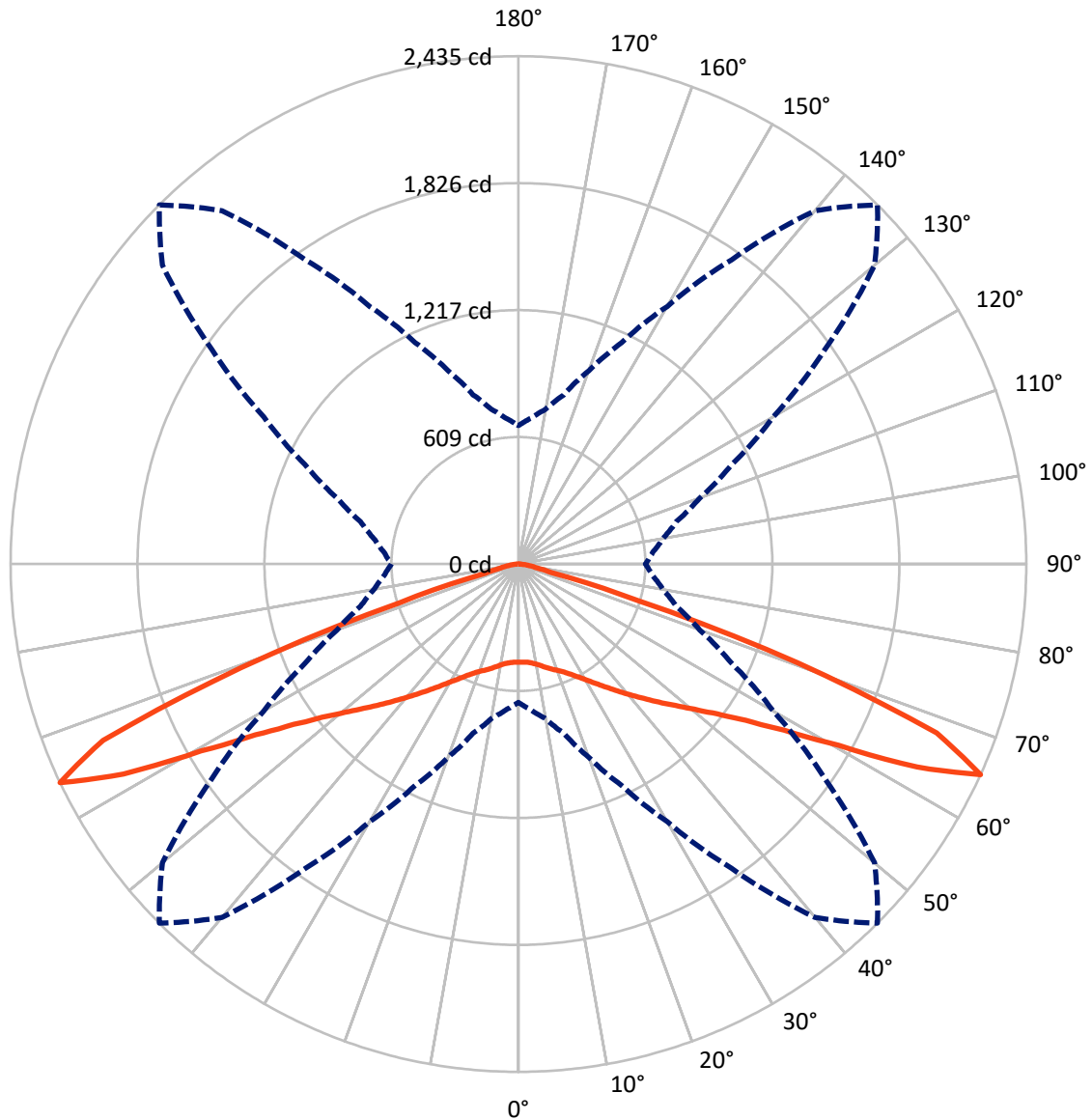


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2070.0	0.0	2070.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2070.0	0.0	2070.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4140.0	0.0	4140.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.9	1.1
10°-20°	147.0	3.6
20°-30°	274.2	6.6
30°-40°	462.3	11.2
40°-50°	750.9	18.1
50°-60°	1176.6	28.4
60°-70°	1110.6	26.8
70°-80°	149.7	3.6
80°-90°	22.8	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°	4140.0	100.0
0°-180°	4140.0	100.0

Coefficient of Utilization



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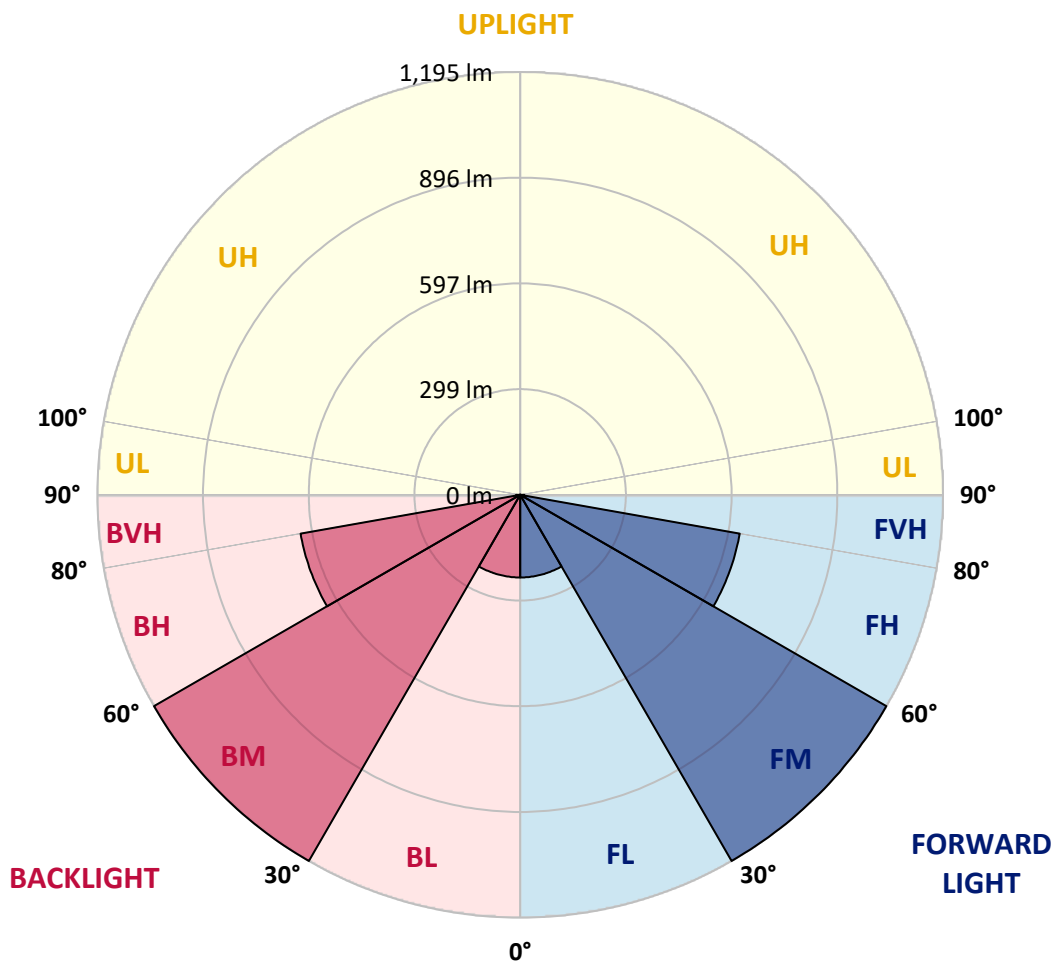
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	233.5	5.6			
FM	(30°-60°)	1194.9	28.9			
FH	(60°-80°)	630.2	15.2			G0/660
FVH	(80°-90°)	11.4	0.3			G1/100
BL	(0°-30°)	233.5	5.6	B1/500		
BM	(30°-60°)	1194.9	28.9	B2/2500		
BH	(60°-80°)	630.2	15.2	B2/1000		G0/660
BVH	(80°-90°)	11.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	470.9	470.9	470.9	470.9	470.9	470.9	470.9	470.9	470.9	470.9	470.9
2.5°	474.8	474.8	475.6	475.3	474.3	473.5	472.7	471.7	471.2	470.7	470.4
5°	477.4	477.4	478.1	477.9	477.1	476.1	475.6	474.8	474.0	473.5	473.8
7.5°	483.8	484.1	484.3	484.1	483.3	482.5	481.5	481.2	480.2	479.4	479.9
10°	493.6	493.6	493.9	494.1	493.6	491.8	491.8	491.3	490.3	489.2	489.5
12.5°	504.4	504.4	504.7	504.7	504.7	503.7	503.9	503.7	502.4	501.9	502.4
15°	515.0	515.3	515.3	515.8	515.8	516.1	517.1	517.1	516.6	516.3	516.3
17.5°	527.4	527.9	528.2	528.9	529.2	529.7	530.8	531.0	531.3	530.5	530.8
20°	543.9	544.2	544.9	545.2	546.2	546.2	546.7	546.5	546.0	544.9	544.9
22.5°	562.5	563.0	564.5	564.5	565.8	565.1	565.3	564.5	563.2	562.7	562.2
25°	586.7	587.5	588.8	588.3	588.8	587.5	587.5	587.5	586.7	585.9	585.7
27.5°	617.4	616.1	617.4	616.4	616.1	615.1	615.3	614.8	614.1	613.8	612.8
30°	649.4	647.8	648.6	648.9	648.4	648.1	647.1	646.3	645.0	645.3	644.5
32.5°	686.0	684.5	685.2	685.5	685.0	685.5	685.2	683.4	681.9	682.9	682.9
35°	729.6	728.6	730.6	731.4	729.8	729.1	728.0	726.0	723.7	725.2	725.5
37.5°	781.9	780.7	782.2	784.3	781.4	779.9	775.8	772.7	771.1	771.9	772.9
40°	836.4	836.6	841.0	841.5	838.4	836.6	832.5	827.8	823.5	823.5	824.8
42.5°	893.6	894.4	899.5	901.4	900.3	897.0	891.3	885.6	879.9	881.0	882.5
45°	958.3	957.3	962.7	967.1	966.3	965.3	959.9	949.6	944.4	944.2	946.7
47.5°	1026.4	1028.5	1034.2	1041.6	1041.4	1038.8	1031.8	1022.3	1012.8	1013.5	1016.6
50°	1105.9	1108.7	1118.2	1125.7	1126.8	1126.0	1117.7	1106.6	1093.2	1094.0	1098.1
52.5°	1177.0	1181.2	1192.3	1207.7	1217.3	1221.7	1216.2	1205.9	1192.3	1193.0	1197.4
55°	1241.5	1248.0	1264.5	1285.6	1304.7	1322.5	1330.5	1330.2	1320.2	1322.5	1328.2
57.5°	1282.0	1291.0	1316.0	1350.1	1388.0	1423.8	1454.8	1483.9	1490.4	1502.5	1502.5
60°	1227.6	1248.7	1282.0	1340.3	1414.8	1495.3	1582.5	1667.3	1722.0	1765.0	1741.8
62.5°	1025.1	1056.3	1103.0	1179.9	1295.9	1439.6	1614.7	1812.0	2017.8	2143.6	2051.3
65°	663.3	702.5	753.3	839.7	985.9	1170.9	1425.9	1780.5	2211.2	2434.5	2228.2
67.5°	262.8	289.4	320.3	381.7	508.6	690.1	976.4	1413.8	1952.5	2163.2	1931.9
70°	125.6	130.0	135.9	149.1	180.8	244.0	392.3	696.6	1197.4	1419.5	1168.8
72.5°	90.8	91.6	94.4	98.8	108.1	121.0	147.0	213.0	412.9	600.4	413.4
75°	68.9	69.9	71.4	73.8	78.7	84.8	94.6	113.5	141.3	163.0	141.1
77.5°	52.4	53.4	54.7	57.0	59.6	64.0	67.6	75.0	86.9	91.6	91.0
80°	38.2	40.0	42.0	44.1	45.9	48.0	48.2	51.8	58.5	62.9	61.6
82.5°	24.2	25.8	31.2	33.5	33.8	34.3	34.0	34.3	37.9	41.0	40.0
85°	15.5	16.5	19.3	21.9	21.4	22.4	22.4	21.9	20.4	17.5	20.9
87.5°	7.7	8.0	9.3	11.6	11.1	9.8	9.5	9.5	7.0	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	470.9	470.9	470.9	470.9	470.9	470.9	470.9	470.9
2.5°	469.6	470.1	469.4	469.4	469.1	469.6	468.9	468.9
5°	473.2	474.0	473.8	473.8	474.3	474.8	474.5	474.3
7.5°	479.7	480.2	480.7	481.0	481.5	481.2	481.8	481.5
10°	489.5	489.0	489.7	489.0	489.2	488.7	489.0	489.0
12.5°	501.9	501.1	500.6	500.1	500.1	499.0	499.0	499.3
15°	516.1	514.8	513.7	513.2	512.7	512.7	511.9	512.4
17.5°	530.0	528.7	526.9	526.9	526.1	525.6	525.1	526.4
20°	544.7	543.4	542.4	542.1	540.6	540.0	540.3	541.8
22.5°	561.7	560.9	560.9	560.4	559.4	558.6	558.6	560.4
25°	584.7	583.1	583.4	583.6	583.1	583.1	582.6	583.9
27.5°	612.8	611.5	612.2	612.8	612.2	613.0	612.2	613.3
30°	645.8	645.0	645.8	646.5	645.3	645.3	644.7	645.5
32.5°	685.2	684.2	684.7	684.7	682.9	681.4	679.3	680.8
35°	728.6	727.3	728.3	729.1	727.0	725.5	722.4	723.7
37.5°	776.3	776.8	778.1	781.4	780.9	778.3	776.0	777.0
40°	829.7	832.2	837.9	840.2	839.7	837.1	834.0	834.6
42.5°	890.0	893.4	899.3	903.2	901.4	897.7	893.9	895.4
45°	955.8	960.9	968.7	972.5	970.2	966.3	960.9	963.8
47.5°	1025.4	1035.7	1046.0	1051.2	1050.4	1045.0	1038.0	1038.8
50°	1108.7	1122.4	1135.5	1140.7	1136.8	1128.6	1118.8	1118.5
52.5°	1212.4	1227.1	1237.9	1236.6	1227.1	1214.2	1203.1	1202.6
55°	1341.8	1346.7	1345.2	1334.1	1317.3	1297.2	1283.0	1280.7
57.5°	1498.4	1481.9	1457.6	1424.1	1386.5	1348.3	1322.5	1313.0
60°	1689.7	1615.2	1528.6	1437.3	1354.0	1291.5	1252.1	1228.1
62.5°	1847.8	1632.0	1438.3	1279.7	1150.0	1072.9	1019.0	985.7
65°	1793.7	1409.9	1129.3	924.8	783.2	703.5	646.5	608.6
67.5°	1385.7	942.1	655.6	454.4	344.6	291.7	254.8	230.8
70°	698.6	361.3	219.0	154.5	132.0	122.8	116.6	113.0
72.5°	205.0	136.9	113.7	100.6	92.6	86.9	83.3	81.5
75°	113.5	92.6	81.8	74.3	69.1	65.2	62.9	61.4
77.5°	78.1	67.3	61.9	57.0	52.9	50.0	48.2	46.7
80°	54.7	49.3	46.9	44.4	41.3	38.9	36.4	35.3
82.5°	36.4	34.0	33.5	31.5	29.7	27.1	22.4	20.9
85°	21.4	21.1	21.1	20.4	19.1	16.8	13.4	13.4
87.5°	7.5	7.7	8.0	8.5	8.3	7.0	5.7	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)