

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: P198810

Luminaire Tested: **XNV-AF-01-LED-U-5NQ-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198810
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-7050-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4097 lumens
Efficiency: N/A
Efficacy: 120.5 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): 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

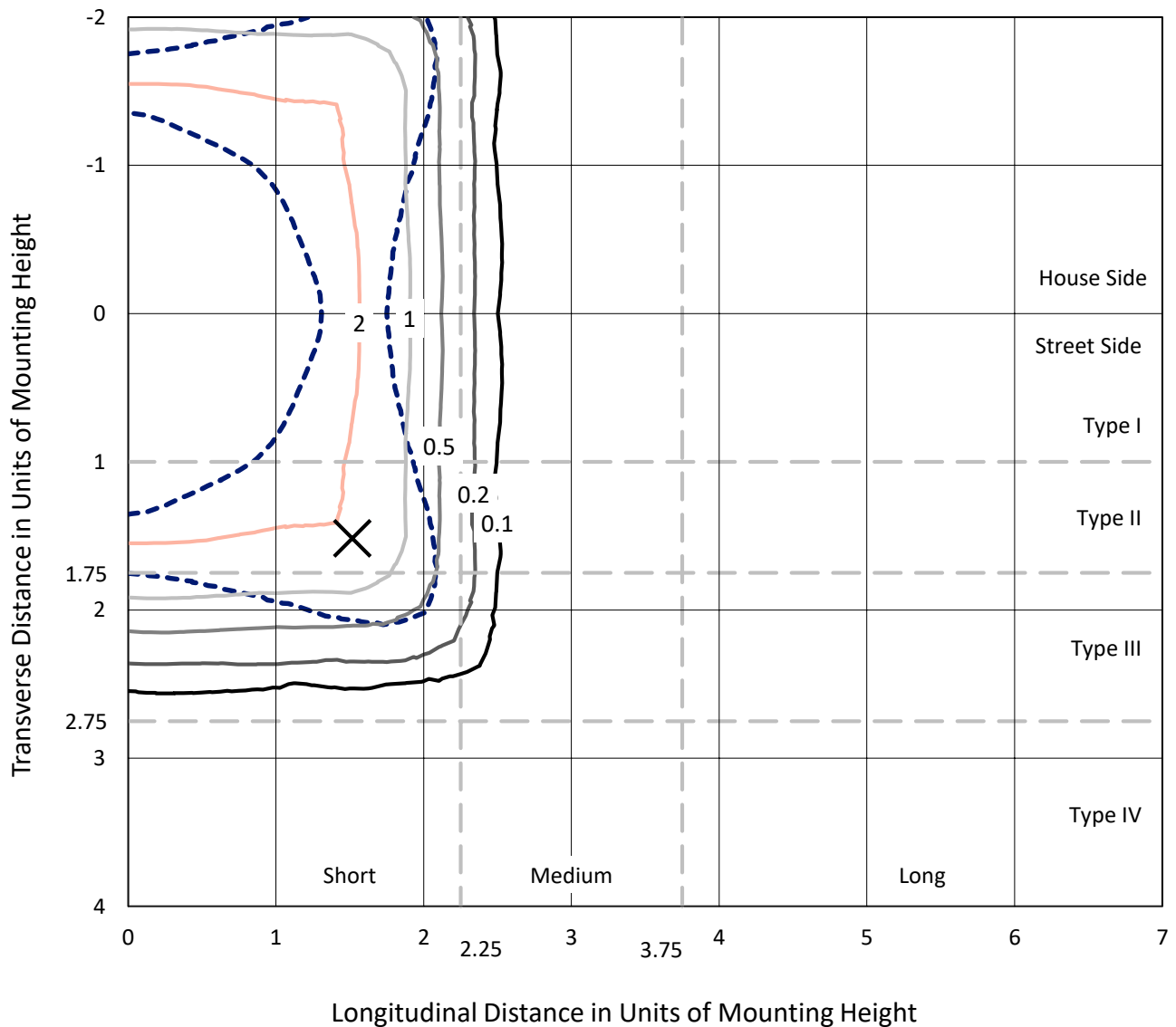


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Iso-Footcandle Lines of Horizontal Illumination

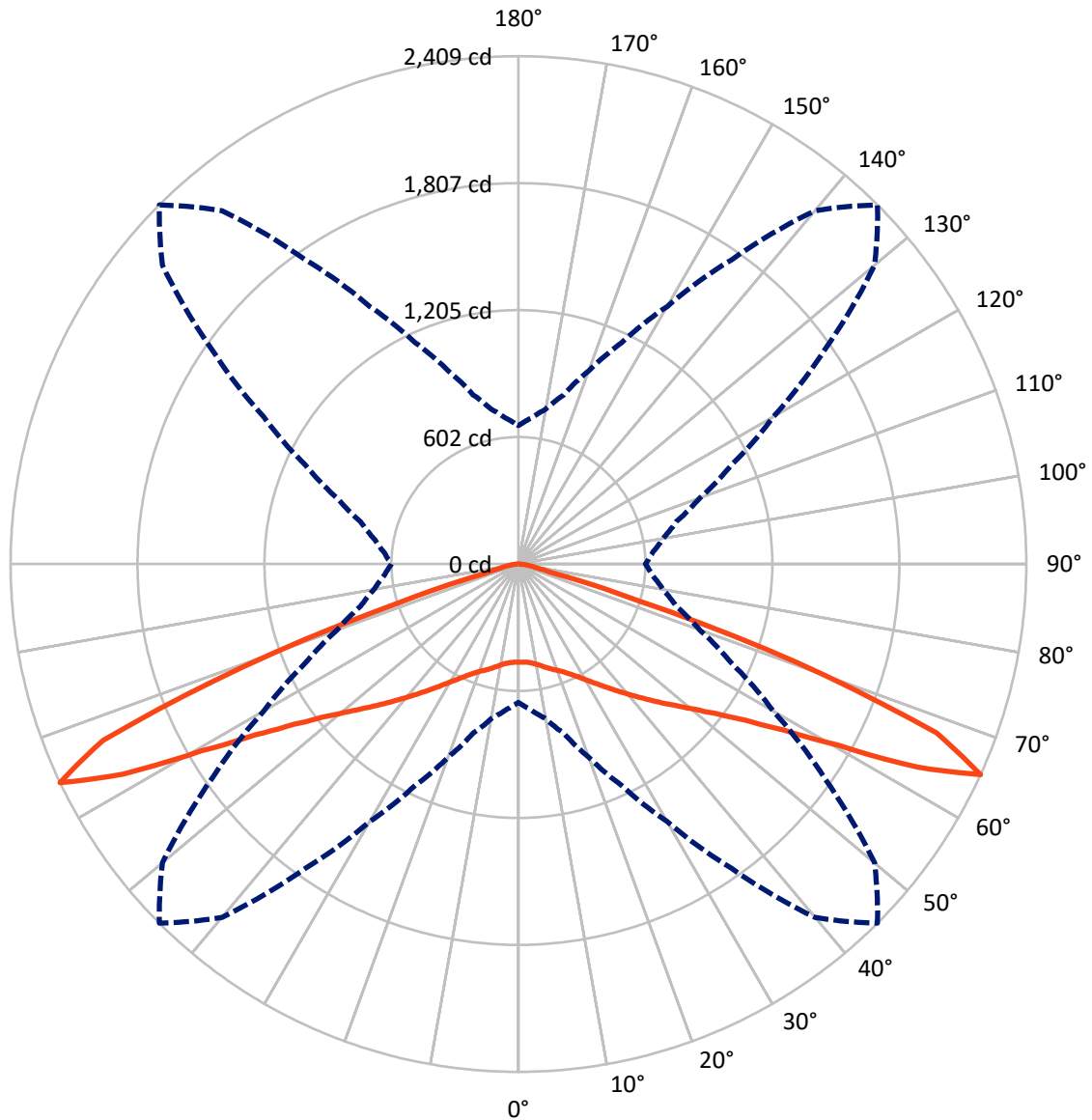
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 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	2048.5	0.0	2048.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2048.5	0.0	2048.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4097.0	0.0	4097.0
	% 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°	271.3	6.6
30°-40°	457.5	11.2
40°-50°	743.1	18.1
50°-60°	1164.4	28.4
60°-70°	1099.1	26.8
70°-80°	148.1	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°	4097.0	100.0
0°-180°	4097.0	100.0



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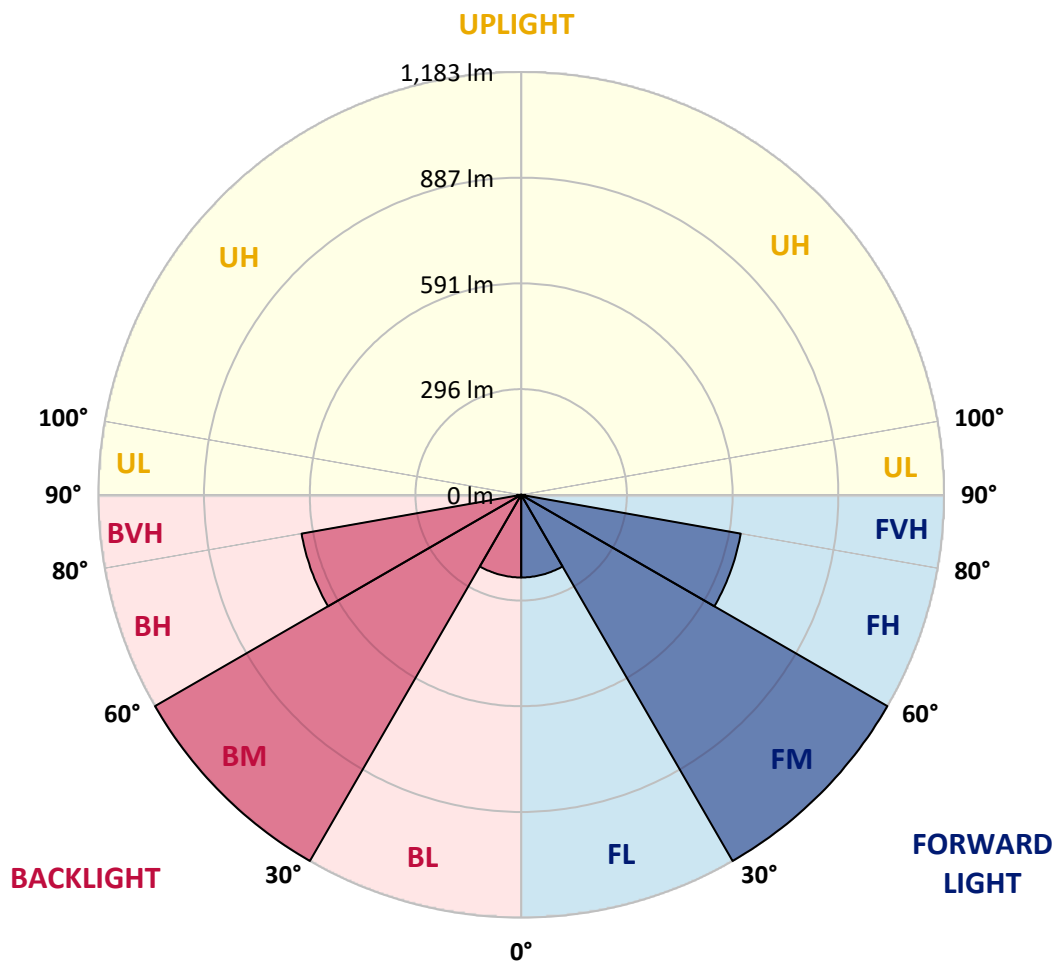
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	231.1	5.6			
FM	(30°-60°)	1182.5	28.9			
FH	(60°-80°)	623.6	15.2			G0/660
FVH	(80°-90°)	11.3	0.3			G1/100
BL	(0°-30°)	231.1	5.6	B1/500		
BM	(30°-60°)	1182.5	28.9	B2/2500		
BH	(60°-80°)	623.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	466.0	466.0	466.0	466.0	466.0	466.0	466.0	466.0	466.0	466.0	466.0
2.5°	469.9	469.9	470.6	470.4	469.3	468.6	467.8	466.8	466.3	465.8	465.5
5°	472.4	472.4	473.2	472.9	472.2	471.1	470.6	469.9	469.1	468.6	468.8
7.5°	478.8	479.0	479.3	479.0	478.3	477.5	476.5	476.2	475.2	474.5	475.0
10°	488.5	488.5	488.7	489.0	488.5	486.7	486.7	486.2	485.2	484.1	484.4
12.5°	499.2	499.2	499.5	499.5	499.5	498.4	498.7	498.4	497.2	496.7	497.2
15°	509.7	509.9	509.9	510.4	510.4	510.7	511.7	511.7	511.2	510.9	510.9
17.5°	521.9	522.4	522.7	523.5	523.7	524.2	525.2	525.5	525.7	525.0	525.2
20°	538.3	538.5	539.3	539.5	540.6	540.6	541.1	540.8	540.3	539.3	539.3
22.5°	556.6	557.1	558.7	558.7	559.9	559.2	559.4	558.7	557.4	556.9	556.4
25°	580.6	581.4	582.7	582.2	582.7	581.4	581.4	581.4	580.6	579.9	579.6
27.5°	611.0	609.7	611.0	610.0	609.7	608.7	609.0	608.4	607.7	607.4	606.4
30°	642.6	641.1	641.9	642.1	641.6	641.4	640.3	639.6	638.3	638.6	637.8
32.5°	678.9	677.3	678.1	678.4	677.9	678.4	678.1	676.3	674.8	675.8	675.8
35°	722.0	721.0	723.0	723.8	722.3	721.5	720.5	718.4	716.1	717.7	717.9
37.5°	773.8	772.5	774.1	776.1	773.3	771.8	767.7	764.6	763.1	763.9	764.9
40°	827.7	827.9	832.3	832.8	829.7	827.9	823.8	819.3	814.9	814.9	816.2
42.5°	884.3	885.1	890.2	892.0	891.0	887.6	882.0	876.4	870.8	871.8	873.4
45°	948.4	947.4	952.7	957.1	956.3	955.3	949.9	939.7	934.6	934.4	936.9
47.5°	1015.8	1017.8	1023.4	1030.8	1030.6	1028.0	1021.1	1011.7	1002.2	1003.0	1006.1
50°	1094.4	1097.2	1106.6	1114.0	1115.0	1114.3	1106.1	1095.1	1081.9	1082.6	1086.7
52.5°	1164.8	1168.9	1179.9	1195.2	1204.6	1209.0	1203.6	1193.4	1179.9	1180.6	1185.0
55°	1228.6	1235.0	1251.3	1272.3	1291.2	1308.8	1316.7	1316.4	1306.5	1308.8	1314.4
57.5°	1268.7	1277.6	1302.4	1336.1	1373.6	1409.1	1439.7	1468.5	1474.9	1486.9	1486.9
60°	1214.8	1235.8	1268.7	1326.4	1400.1	1479.8	1566.0	1650.0	1704.1	1746.7	1723.7
62.5°	1014.5	1045.4	1091.6	1167.6	1282.5	1424.6	1597.9	1793.2	1996.8	2121.4	2030.0
65°	656.4	695.2	745.5	831.0	975.7	1158.7	1411.1	1762.0	2188.2	2409.3	2205.1
67.5°	260.1	286.4	317.0	377.7	503.3	683.0	966.3	1399.1	1932.3	2140.8	1911.8
70°	124.3	128.6	134.5	147.5	178.9	241.4	388.2	689.3	1185.0	1404.7	1156.6
72.5°	89.8	90.6	93.4	97.7	106.9	119.7	145.5	210.8	408.6	594.1	409.1
75°	68.1	69.2	70.7	73.0	77.8	84.0	93.7	112.3	139.9	161.3	139.6
77.5°	51.8	52.8	54.1	56.4	59.0	63.3	66.9	74.3	86.0	90.6	90.1
80°	37.8	39.6	41.6	43.6	45.4	47.5	47.7	51.3	57.9	62.3	61.0
82.5°	24.0	25.5	30.9	33.2	33.4	33.9	33.7	33.9	37.5	40.6	39.6
85°	15.3	16.3	19.1	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	466.0	466.0	466.0	466.0	466.0	466.0	466.0	466.0
2.5°	464.8	465.3	464.5	464.5	464.2	464.8	464.0	464.0
5°	468.3	469.1	468.8	468.8	469.3	469.9	469.6	469.3
7.5°	474.7	475.2	475.7	476.0	476.5	476.2	476.7	476.5
10°	484.4	483.9	484.7	483.9	484.1	483.6	483.9	483.9
12.5°	496.7	495.9	495.4	494.9	494.9	493.8	493.8	494.1
15°	510.7	509.4	508.4	507.9	507.4	507.4	506.6	507.1
17.5°	524.5	523.2	521.4	521.4	520.6	520.1	519.6	520.9
20°	539.0	537.7	536.7	536.5	534.9	534.4	534.7	536.2
22.5°	555.9	555.1	555.1	554.6	553.6	552.8	552.8	554.6
25°	578.6	577.0	577.3	577.6	577.0	577.0	576.5	577.8
27.5°	606.4	605.1	605.9	606.4	605.9	606.7	605.9	606.9
30°	639.1	638.3	639.1	639.8	638.6	638.6	638.0	638.8
32.5°	678.1	677.1	677.6	677.6	675.8	674.3	672.2	673.8
35°	721.0	719.7	720.7	721.5	719.5	717.9	714.9	716.1
37.5°	768.2	768.7	770.0	773.3	772.8	770.2	768.0	769.0
40°	821.0	823.6	829.2	831.5	831.0	828.4	825.4	825.9
42.5°	880.8	884.1	889.9	893.8	892.0	888.4	884.6	886.1
45°	945.8	950.9	958.6	962.4	960.1	956.3	950.9	953.8
47.5°	1014.7	1025.0	1035.2	1040.3	1039.5	1034.1	1027.3	1028.0
50°	1097.2	1110.7	1123.7	1128.8	1125.0	1116.8	1107.1	1106.9
52.5°	1199.8	1214.3	1225.0	1223.8	1214.3	1201.6	1190.6	1190.1
55°	1327.9	1332.8	1331.2	1320.2	1303.7	1283.7	1269.7	1267.4
57.5°	1482.8	1466.5	1442.5	1409.3	1372.1	1334.3	1308.8	1299.3
60°	1672.2	1598.4	1512.7	1422.3	1339.9	1278.1	1239.1	1215.4
62.5°	1828.6	1615.0	1423.4	1266.4	1138.0	1061.7	1008.4	975.4
65°	1775.0	1395.3	1117.6	915.2	775.1	696.2	639.8	602.3
67.5°	1371.3	932.3	648.8	449.7	341.0	288.7	252.2	228.4
70°	691.4	357.6	216.7	152.9	130.7	121.5	115.4	111.8
72.5°	202.9	135.5	112.6	99.5	91.6	86.0	82.4	80.6
75°	112.3	91.6	80.9	73.5	68.4	64.6	62.3	60.7
77.5°	77.3	66.6	61.3	56.4	52.3	49.5	47.7	46.2
80°	54.1	48.7	46.4	43.9	40.8	38.5	36.0	35.0
82.5°	36.0	33.7	33.2	31.1	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)