

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: P198482

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198482
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24129)
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-5MQ-7030-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3757 lumens
Efficiency: N/A
Efficacy: 110.5 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

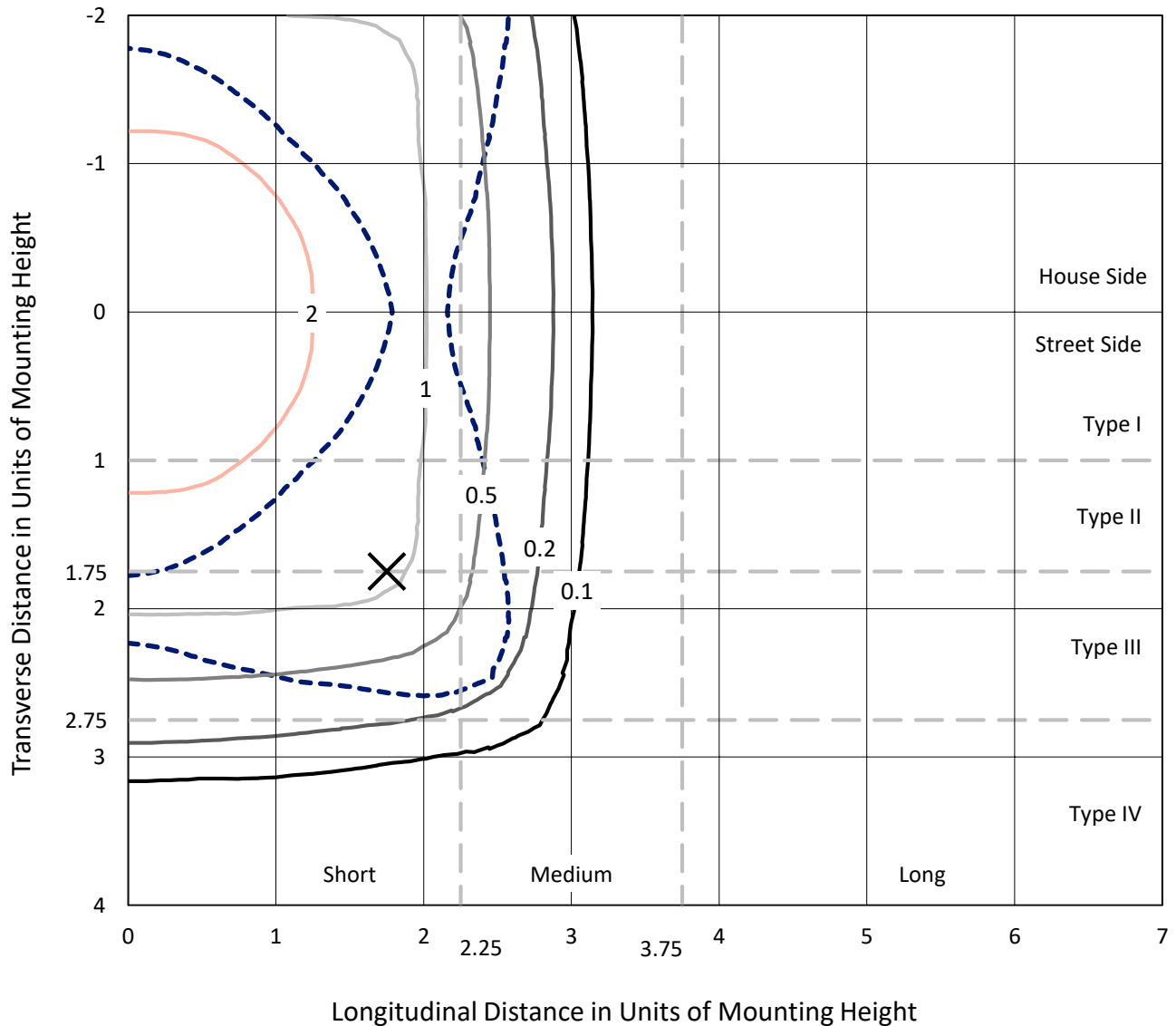


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

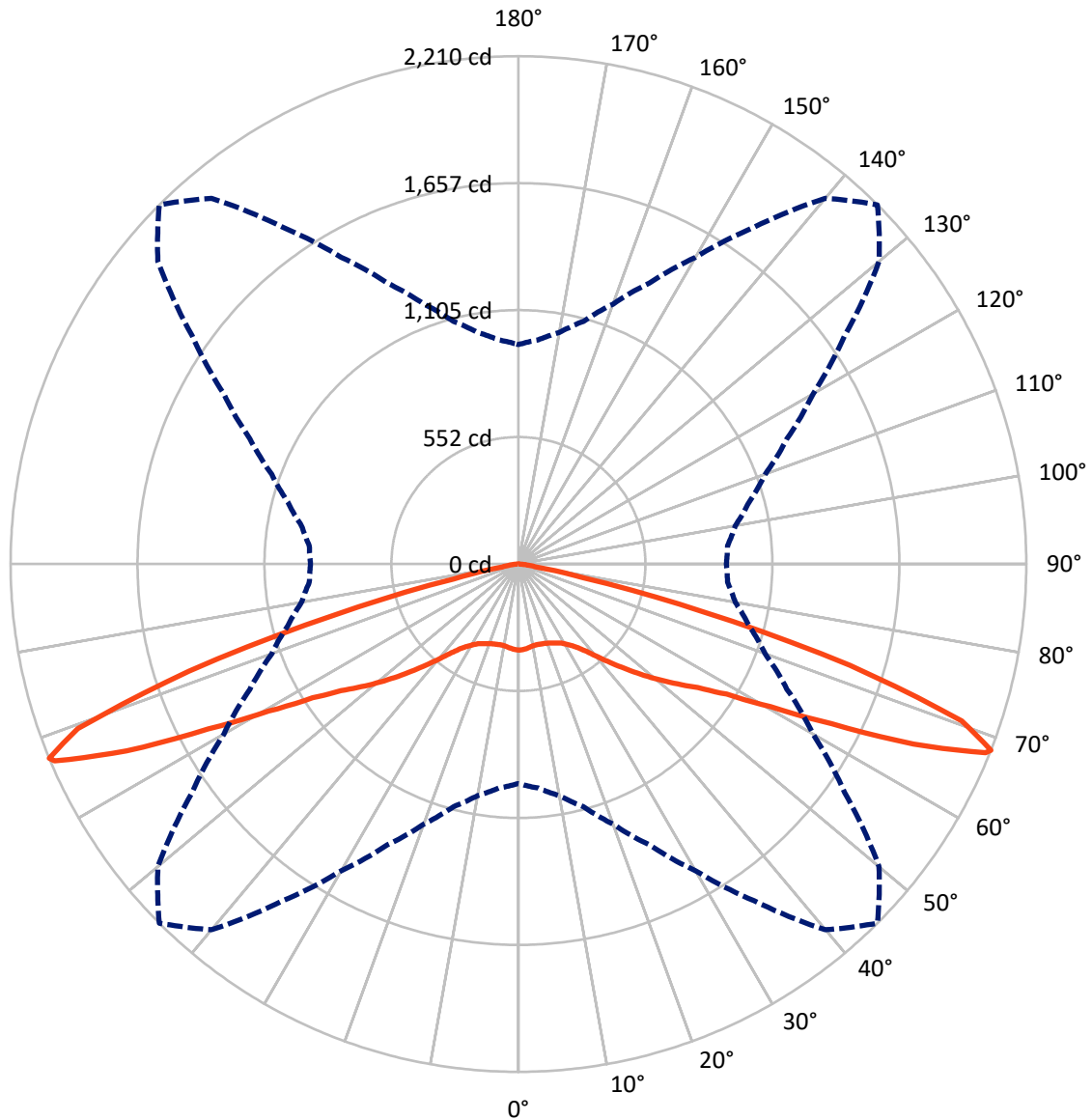


Based on 10 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1878.5	0.0	1878.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1878.5	0.0	1878.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	3757.0	0.0	3757.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.1	0.9
10°-20°	101.7	2.7
20°-30°	172.9	4.6
30°-40°	283.0	7.5
40°-50°	505.7	13.5
50°-60°	854.0	22.7
60°-70°	1324.3	35.2
70°-80°	455.3	12.1
80°-90°	25.0	0.7
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°	3757.0	100.0
0°-180°	3757.0	100.0

Coefficient of Utilization



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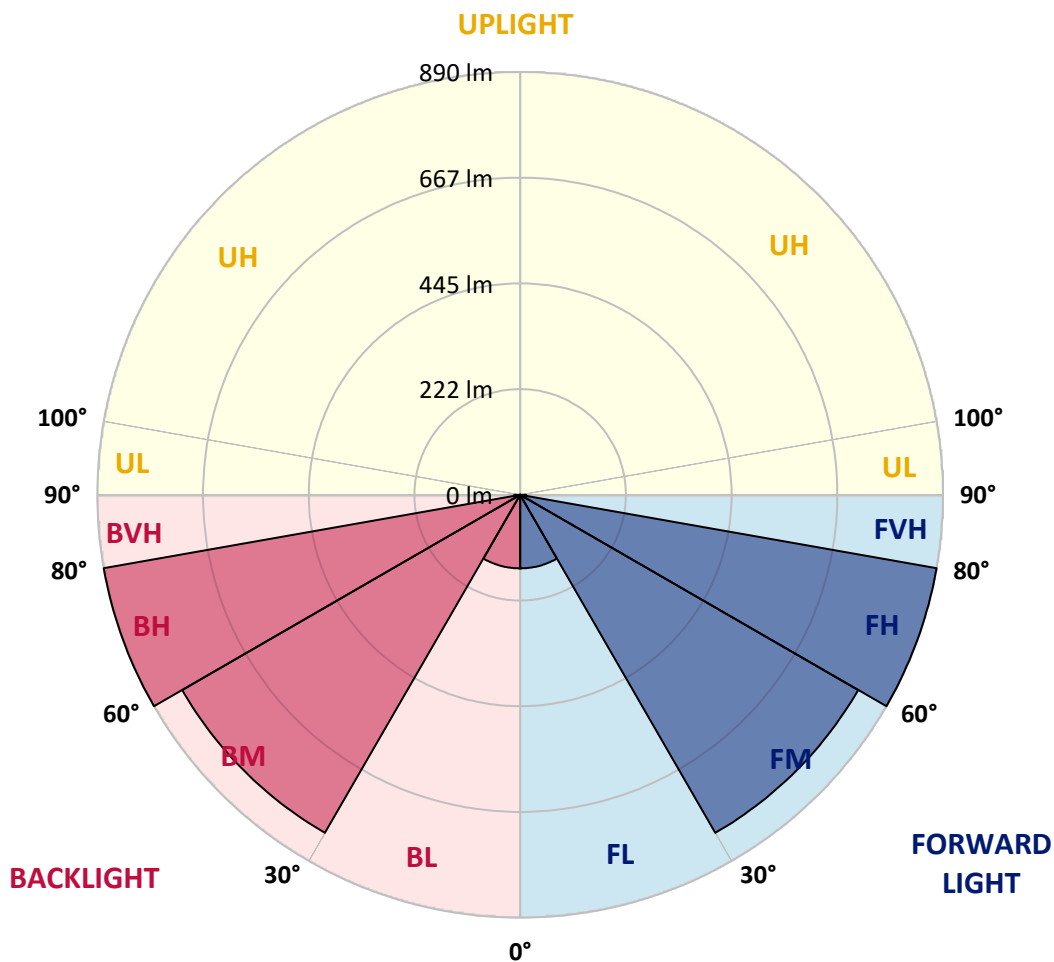
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	154.8	4.1			
FM (30°-60°)	821.3	21.9			
FH (60°-80°)	889.8	23.7			G1/1800
FVH (80°-90°)	12.5	0.3			G1/100
BL (0°-30°)	154.8	4.1	B1/500		
BM (30°-60°)	821.3	21.9	B1/1000		
BH (60°-80°)	889.8	23.7	B2/1000		G1/1800
BVH (80°-90°)	12.5	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°	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8
2.5°	376.4	376.4	376.8	376.6	375.9	375.2	374.5	373.9	373.4	372.9	372.5
5°	372.5	372.5	373.2	372.7	372.2	371.6	371.1	370.4	369.9	369.5	369.7
7.5°	367.4	367.9	368.3	368.1	367.2	366.9	366.3	366.0	365.6	364.9	365.1
10°	363.0	363.3	363.7	363.5	363.3	362.6	362.3	362.1	361.9	361.0	360.7
12.5°	358.7	359.1	359.6	359.8	359.6	359.8	360.0	360.3	360.0	359.6	359.6
15°	355.2	355.7	356.4	357.1	357.3	358.7	359.6	360.5	361.2	361.4	360.7
17.5°	353.4	354.1	355.0	356.4	357.5	359.1	360.7	362.1	363.3	363.5	362.8
20°	353.1	353.8	355.2	356.8	358.9	361.0	363.5	365.6	366.7	367.4	366.7
22.5°	354.8	355.7	357.5	359.6	362.1	364.9	368.1	370.4	372.7	373.6	372.9
25°	359.4	360.3	362.3	364.9	367.6	371.1	374.3	377.3	379.6	380.8	379.8
27.5°	369.0	369.3	371.6	374.3	377.5	380.5	384.7	386.0	387.9	389.0	387.9
30°	382.6	383.1	385.1	389.5	392.5	396.4	398.7	400.1	402.1	403.3	401.9
32.5°	403.3	403.8	405.6	409.7	412.5	415.5	418.3	419.2	421.2	422.6	421.0
35°	432.5	433.4	435.0	437.8	440.1	442.4	444.5	443.8	445.2	447.0	445.4
37.5°	472.5	472.3	472.8	474.8	477.1	478.5	481.8	480.1	481.5	483.1	482.2
40°	519.3	519.3	519.0	522.7	523.6	525.0	528.5	526.4	528.2	530.1	528.5
42.5°	572.4	573.3	574.5	577.5	580.0	580.4	582.1	581.1	583.4	585.0	583.4
45°	633.6	635.0	636.4	643.3	644.4	645.3	646.5	643.5	646.0	647.4	646.9
47.5°	697.1	699.6	702.6	709.7	714.3	716.4	717.3	713.9	714.1	716.2	716.4
50°	768.9	771.6	774.6	782.7	787.0	790.7	791.9	788.0	788.4	790.0	790.5
52.5°	835.1	838.3	844.8	855.6	861.8	868.3	868.7	863.9	866.0	867.1	866.2
55°	897.5	901.6	910.1	924.6	935.9	948.5	954.3	949.0	949.0	948.1	947.6
57.5°	970.2	974.8	983.5	1000.3	1016.0	1034.1	1049.8	1055.1	1064.7	1068.0	1062.9
60°	1079.7	1084.5	1093.5	1115.6	1135.4	1161.8	1187.6	1208.5	1242.6	1261.0	1244.4
62.5°	1179.8	1187.1	1208.3	1246.9	1289.7	1338.7	1395.6	1436.1	1497.9	1528.8	1487.1
65°	1157.0	1171.9	1213.4	1274.1	1362.4	1468.7	1584.4	1695.6	1823.5	1889.0	1804.4
67.5°	1010.7	1023.3	1068.0	1138.6	1248.8	1395.3	1575.2	1805.3	2069.2	2192.0	2042.3
68°	954.8	978.5	1022.9	1093.0	1204.1	1348.2	1540.3	1788.7	2076.8	2209.5	2047.8
70°	732.1	740.6	783.1	846.2	966.0	1107.3	1301.2	1584.4	1910.0	2046.6	1880.3
72.5°	347.9	352.9	380.5	442.6	518.8	633.8	805.0	1072.1	1365.4	1507.6	1341.7
75°	127.5	128.6	135.0	149.8	178.3	221.6	303.7	469.8	695.5	829.4	698.2
77.5°	68.8	69.0	71.5	75.2	80.3	86.0	98.5	132.1	213.0	289.9	225.0
80°	43.3	43.0	45.6	48.5	52.0	54.8	55.9	59.8	67.4	78.9	72.5
82.5°	22.1	24.2	29.9	33.1	38.2	39.1	38.0	37.7	40.0	43.3	44.6
85°	12.2	10.8	15.9	21.2	23.0	23.7	23.9	22.5	22.1	21.6	22.8
87.5°	6.2	5.8	6.9	10.6	11.3	9.2	9.4	8.1	5.5	5.5	5.8
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°	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8
2.5°	372.0	372.2	371.8	371.8	371.8	372.0	371.8	371.6
5°	369.0	369.5	369.5	369.7	369.9	369.9	369.9	369.9
7.5°	364.6	364.9	365.3	365.3	365.3	365.3	365.3	365.3
10°	360.5	360.0	359.8	359.4	359.4	358.7	358.9	359.1
12.5°	358.4	357.5	357.1	356.4	355.9	355.2	355.2	355.4
15°	359.4	358.0	356.6	356.1	355.7	355.2	354.8	355.0
17.5°	361.2	359.6	358.0	357.1	356.1	355.4	355.2	355.4
20°	365.1	362.8	360.3	358.7	356.8	356.4	355.7	356.4
22.5°	370.4	367.6	364.4	361.4	359.4	358.4	357.5	358.2
25°	376.8	373.9	370.6	367.2	364.9	364.2	363.0	363.0
27.5°	385.8	383.3	380.5	377.3	375.0	374.3	372.5	372.5
30°	400.1	397.5	395.0	392.3	390.0	389.3	387.0	387.0
32.5°	418.9	416.2	414.6	412.3	410.4	409.3	406.5	406.3
35°	444.3	441.7	441.5	439.9	438.0	438.3	435.5	435.0
37.5°	480.6	478.5	479.2	477.8	476.2	477.6	476.0	476.0
40°	527.1	526.4	527.1	526.2	526.4	526.6	525.2	525.7
42.5°	583.2	581.4	585.5	585.0	584.4	586.2	583.0	580.7
45°	647.9	647.2	651.3	652.0	650.6	651.8	646.0	645.8
47.5°	718.0	718.0	721.7	721.2	719.9	720.1	713.2	708.8
50°	791.2	790.7	794.4	793.5	791.6	791.4	784.3	779.9
52.5°	867.3	867.3	872.6	870.1	865.7	863.7	854.9	849.2
55°	951.5	950.4	952.0	943.7	935.2	929.0	918.2	913.8
57.5°	1058.1	1044.7	1033.2	1022.6	1010.7	1003.3	990.6	986.0
60°	1209.2	1173.5	1158.1	1137.0	1117.2	1107.3	1090.5	1081.5
62.5°	1418.6	1359.4	1317.6	1270.9	1225.8	1194.0	1168.5	1157.2
65°	1660.6	1531.8	1425.2	1325.2	1240.3	1172.9	1135.4	1123.6
67.5°	1752.6	1516.1	1332.3	1188.7	1085.7	1005.4	960.5	951.1
68°	1733.1	1480.2	1289.3	1142.3	1038.7	957.8	913.1	904.6
70°	1528.8	1248.8	1047.2	900.9	804.3	727.2	695.7	682.1
72.5°	1042.2	802.0	615.2	492.1	419.9	371.1	342.1	332.2
75°	479.7	324.2	216.5	161.7	137.3	125.6	116.6	114.3
77.5°	139.9	101.7	87.4	81.0	76.2	72.0	69.0	68.8
80°	66.5	62.3	60.5	56.4	52.0	48.1	45.3	45.8
82.5°	44.6	43.5	43.5	39.3	32.4	27.8	23.0	20.7
85°	23.7	24.6	26.0	24.6	21.4	15.9	10.4	11.3
87.5°	8.1	9.2	9.7	9.4	8.5	6.4	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)