

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: P271202

Luminaire Tested: **XNV-AF-01-LED-U-5MQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271202
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-7027-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 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: 3687.4 lumens
Efficiency: N/A
Efficacy: 108.5 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

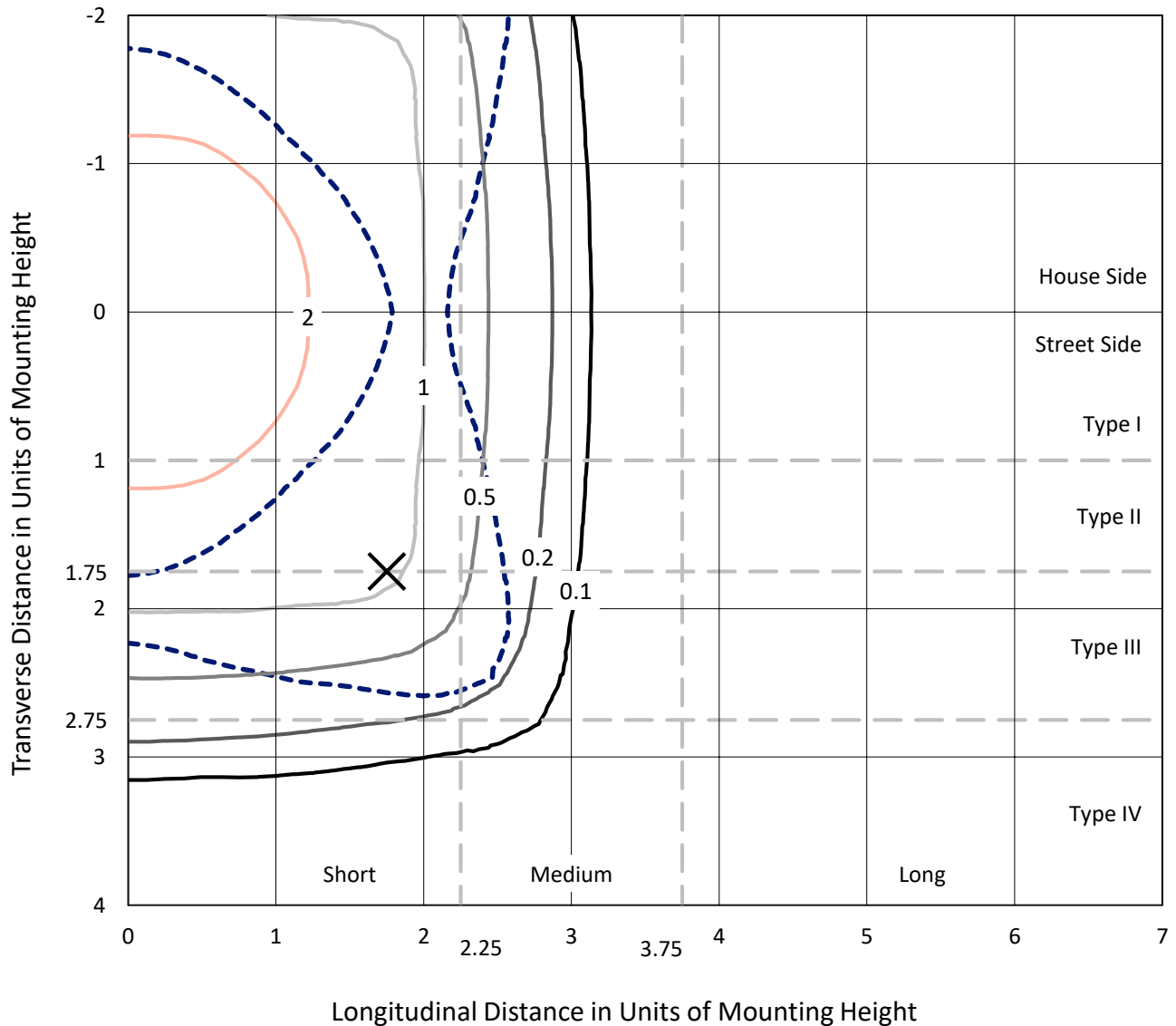


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Iso-Footcandle Lines of Horizontal Illumination

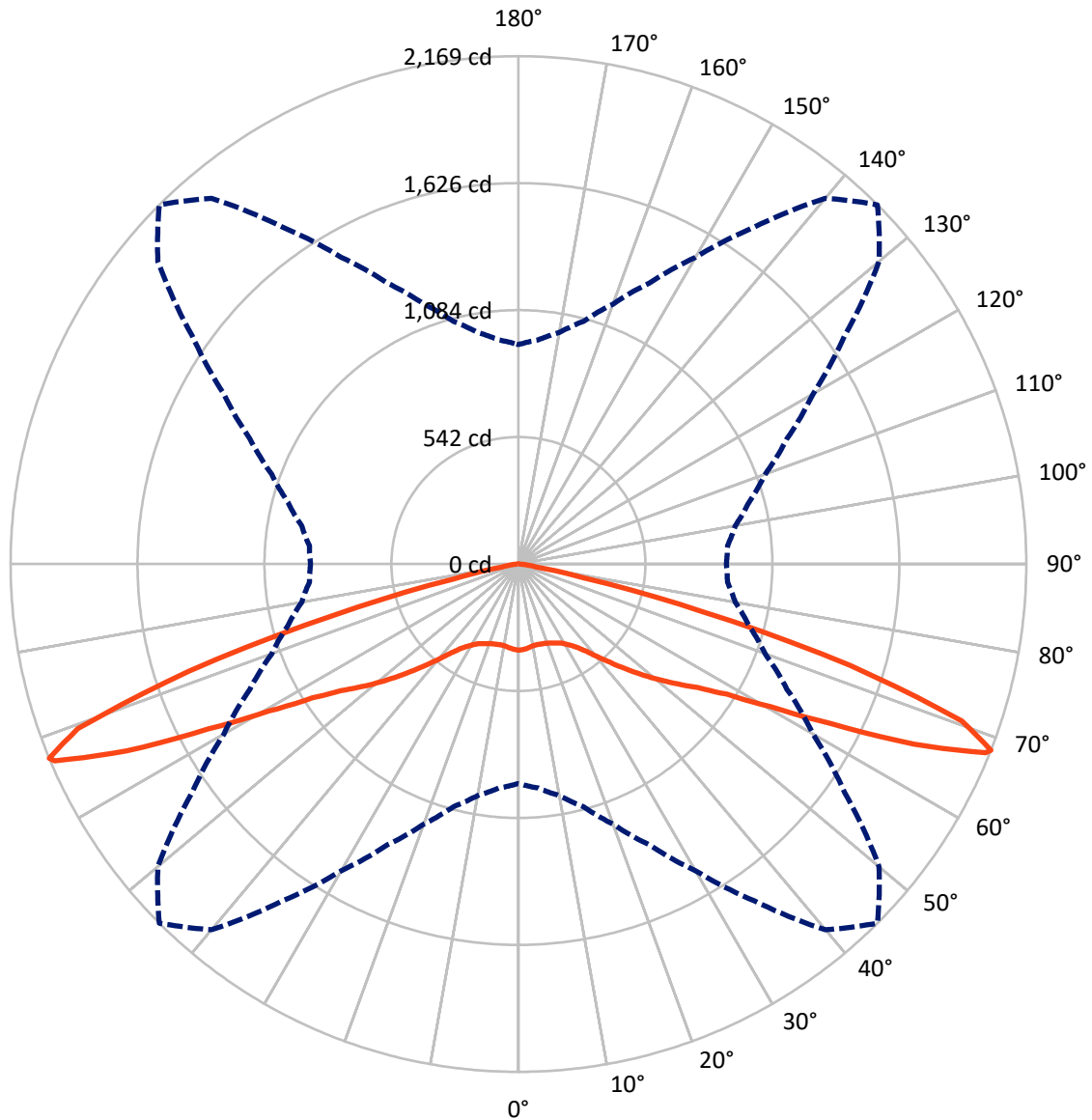
× Max cd
 - - - 1/2 Max cd



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	1843.7	0.0	1843.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1843.7	0.0	1843.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	3687.4	0.0	3687.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.4	0.9
10°-20°	99.8	2.7
20°-30°	169.7	4.6
30°-40°	277.7	7.5
40°-50°	496.3	13.5
50°-60°	838.2	22.7
60°-70°	1299.8	35.2
70°-80°	446.9	12.1
80°-90°	24.6	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°	3687.4	100.0
0°-180°	3687.4	100.0



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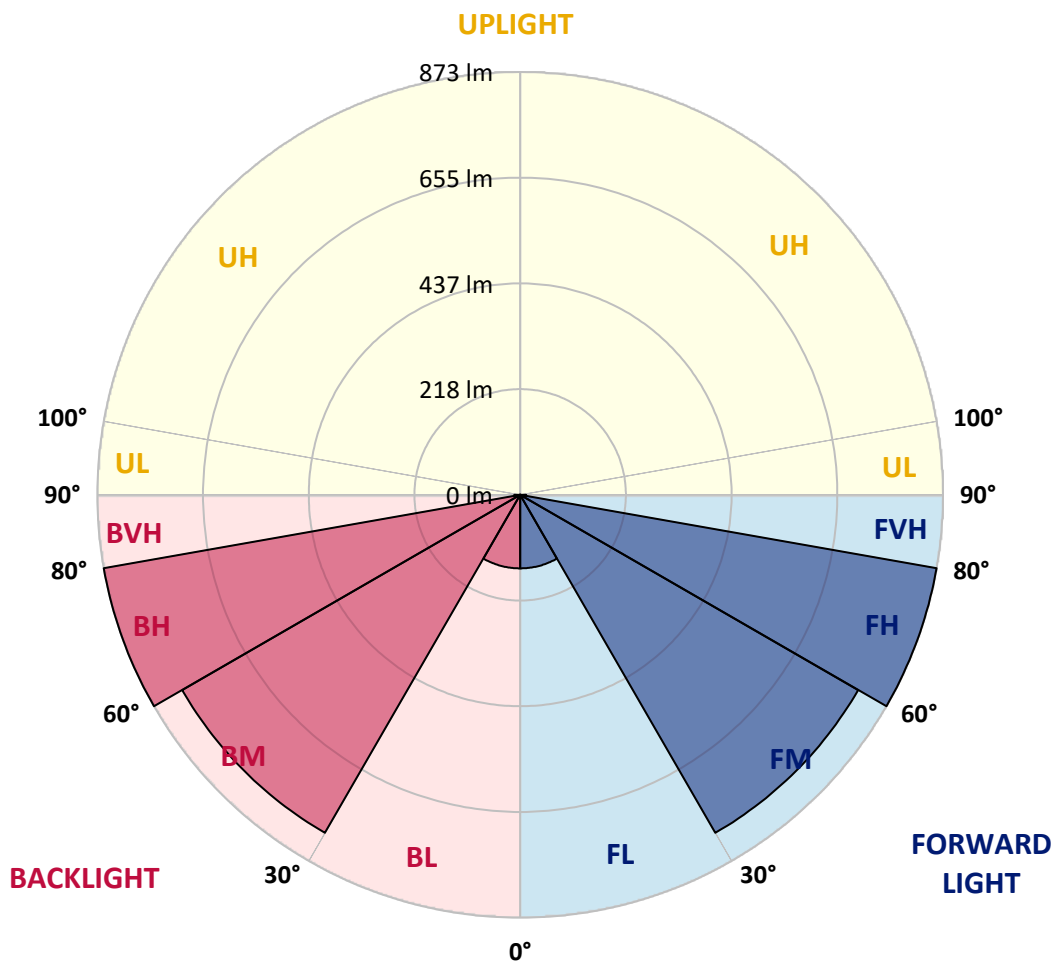
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	152.0	4.1			
FM	(30°-60°)	806.1	21.9			
FH	(60°-80°)	873.3	23.7			G1/1800
FVH	(80°-90°)	12.3	0.3			G1/100
BL	(0°-30°)	152.0	4.1	B1/500		
BM	(30°-60°)	806.1	21.9	B1/1000		
BH	(60°-80°)	873.3	23.7	B2/1000		G1/1800
BVH	(80°-90°)	12.3	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°	367.9	367.9	367.9	367.9	367.9	367.9	367.9	367.9	367.9	367.9	367.9
2.5°	369.5	369.5	369.8	369.7	368.9	368.2	367.5	367.0	366.5	366.0	365.6
5°	365.6	365.6	366.2	365.8	365.3	364.7	364.3	363.5	363.1	362.6	362.8
7.5°	360.6	361.1	361.5	361.3	360.4	360.1	359.5	359.2	358.9	358.2	358.3
10°	356.3	356.5	356.9	356.7	356.5	355.9	355.5	355.4	355.2	354.3	354.0
12.5°	352.0	352.4	352.9	353.2	352.9	353.2	353.4	353.7	353.4	352.9	352.9
15°	348.6	349.1	349.8	350.5	350.7	352.0	352.9	353.8	354.6	354.7	354.0
17.5°	346.8	347.6	348.5	349.8	350.9	352.4	354.0	355.4	356.5	356.7	356.1
20°	346.6	347.3	348.6	350.2	352.2	354.3	356.7	358.9	360.0	360.6	360.0
22.5°	348.3	349.1	350.9	352.9	355.4	358.2	361.3	363.5	365.8	366.7	366.0
25°	352.8	353.7	355.5	358.2	360.8	364.3	367.3	370.3	372.5	373.8	372.7
27.5°	362.1	362.5	364.7	367.3	370.6	373.4	377.6	378.8	380.7	381.8	380.7
30°	375.5	376.0	377.9	382.3	385.3	389.1	391.3	392.6	394.6	395.9	394.4
32.5°	395.9	396.3	398.0	402.1	404.9	407.8	410.5	411.5	413.4	414.7	413.2
35°	424.4	425.3	427.0	429.7	431.9	434.2	436.2	435.6	436.9	438.7	437.1
37.5°	463.7	463.5	464.1	466.0	468.2	469.6	472.9	471.3	472.6	474.1	473.2
40°	509.7	509.7	509.3	513.0	513.9	515.3	518.7	516.6	518.4	520.3	518.7
42.5°	561.8	562.7	563.9	566.8	569.3	569.6	571.3	570.3	572.6	574.1	572.6
45°	621.8	623.2	624.6	631.4	632.4	633.3	634.6	631.6	634.1	635.5	634.9
47.5°	684.1	686.7	689.5	696.5	701.0	703.2	704.0	700.7	700.9	703.0	703.2
50°	754.7	757.4	760.2	768.2	772.5	776.0	777.3	773.4	773.8	775.3	775.9
52.5°	819.7	822.8	829.1	839.7	845.8	852.2	852.6	847.9	849.9	851.1	850.2
55°	880.9	884.9	893.3	907.5	918.5	931.0	936.7	931.5	931.5	930.6	930.0
57.5°	952.3	956.8	965.3	981.8	997.2	1014.9	1030.4	1035.6	1045.0	1048.2	1043.2
60°	1059.7	1064.4	1073.3	1094.9	1114.3	1140.3	1165.6	1186.1	1219.5	1237.7	1221.3
62.5°	1157.9	1165.1	1185.9	1223.9	1265.8	1314.0	1369.7	1409.5	1470.2	1500.4	1459.6
65°	1135.5	1150.2	1191.0	1250.5	1337.1	1441.5	1555.1	1664.2	1789.8	1854.0	1771.0
67.5°	992.0	1004.3	1048.2	1117.5	1225.6	1369.5	1546.1	1771.8	2030.9	2151.4	2004.5
68°	937.1	960.4	1003.9	1072.8	1181.8	1323.3	1511.8	1755.6	2038.3	2168.6	2009.9
70°	718.6	726.9	768.6	830.6	948.2	1086.8	1277.1	1555.1	1874.7	2008.7	1845.5
72.5°	341.4	346.3	373.4	434.4	509.2	622.0	790.1	1052.3	1340.1	1479.7	1316.8
75°	125.1	126.2	132.5	147.1	175.0	217.5	298.1	461.1	682.6	814.0	685.2
77.5°	67.6	67.7	70.2	73.8	78.8	84.4	96.7	129.6	209.0	284.6	220.9
80°	42.5	42.2	44.7	47.6	51.1	53.8	54.8	58.7	66.1	77.4	71.1
82.5°	21.6	23.7	29.4	32.5	37.5	38.4	37.3	37.0	39.3	42.5	43.7
85°	11.9	10.6	15.6	20.8	22.5	23.3	23.4	22.1	21.6	21.2	22.4
87.5°	6.1	5.7	6.7	10.4	11.0	9.1	9.3	7.9	5.4	5.4	5.7
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°	367.9	367.9	367.9	367.9	367.9	367.9	367.9	367.9
2.5°	365.2	365.3	364.9	364.9	364.9	365.2	364.9	364.7
5°	362.1	362.6	362.6	362.8	363.1	363.1	363.1	363.1
7.5°	357.9	358.2	358.6	358.6	358.6	358.6	358.6	358.6
10°	353.8	353.4	353.2	352.8	352.8	352.0	352.2	352.4
12.5°	351.7	350.9	350.5	349.8	349.4	348.6	348.6	348.8
15°	352.8	351.3	350.0	349.5	349.1	348.6	348.3	348.5
17.5°	354.6	352.9	351.3	350.5	349.5	348.8	348.6	348.8
20°	358.3	356.1	353.7	352.0	350.2	349.8	349.1	349.8
22.5°	363.5	360.8	357.6	354.7	352.8	351.7	350.9	351.5
25°	369.8	367.0	363.8	360.4	358.2	357.4	356.3	356.3
27.5°	378.6	376.2	373.4	370.3	368.0	367.3	365.6	365.6
30°	392.6	390.1	387.7	385.1	382.8	382.0	379.9	379.9
32.5°	411.2	408.5	406.9	404.6	402.8	401.7	398.9	398.8
35°	436.0	433.5	433.3	431.7	429.8	430.2	427.5	427.0
37.5°	471.7	469.6	470.4	468.9	467.4	468.7	467.2	467.2
40°	517.3	516.6	517.3	516.4	516.6	516.9	515.4	515.9
42.5°	572.4	570.7	574.6	574.1	573.6	575.4	572.2	570.0
45°	635.9	635.2	639.2	640.0	638.5	639.8	634.1	633.8
47.5°	704.7	704.7	708.4	707.9	706.5	706.7	700.0	695.6
50°	776.6	776.0	779.6	778.8	776.9	776.8	769.8	765.4
52.5°	851.2	851.2	856.4	854.0	849.6	847.7	839.0	833.4
55°	933.9	932.8	934.3	926.2	917.9	911.8	901.2	896.9
57.5°	1038.5	1025.3	1014.0	1003.6	992.0	984.7	972.2	967.7
60°	1186.8	1151.7	1136.6	1116.0	1096.6	1086.8	1070.3	1061.4
62.5°	1392.4	1334.3	1293.2	1247.3	1203.1	1171.8	1146.9	1135.7
65°	1629.9	1503.5	1398.8	1300.7	1217.4	1151.2	1114.3	1102.8
67.5°	1720.2	1488.0	1307.7	1166.7	1065.6	986.8	942.7	933.5
68°	1701.0	1452.7	1265.4	1121.2	1019.4	940.0	896.1	887.9
70°	1500.4	1225.6	1027.8	884.2	789.4	713.8	682.8	669.4
72.5°	1022.9	787.2	603.8	483.0	412.1	364.3	335.7	326.1
75°	470.8	318.2	212.4	158.7	134.7	123.2	114.4	112.2
77.5°	137.4	99.8	85.8	79.5	74.7	70.6	67.7	67.6
80°	65.2	61.2	59.4	55.3	51.1	47.3	44.5	44.9
82.5°	43.7	42.7	42.7	38.5	31.8	27.3	22.5	20.3
85°	23.3	24.2	25.5	24.2	21.0	15.6	10.2	11.0
87.5°	7.9	9.1	9.5	9.3	8.4	6.3	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)