

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: P198820

Luminaire Tested: **XNV-AF-01-LED-U-5WQ-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198820
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24131)
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-5WQ-7050-800
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5084 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - 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

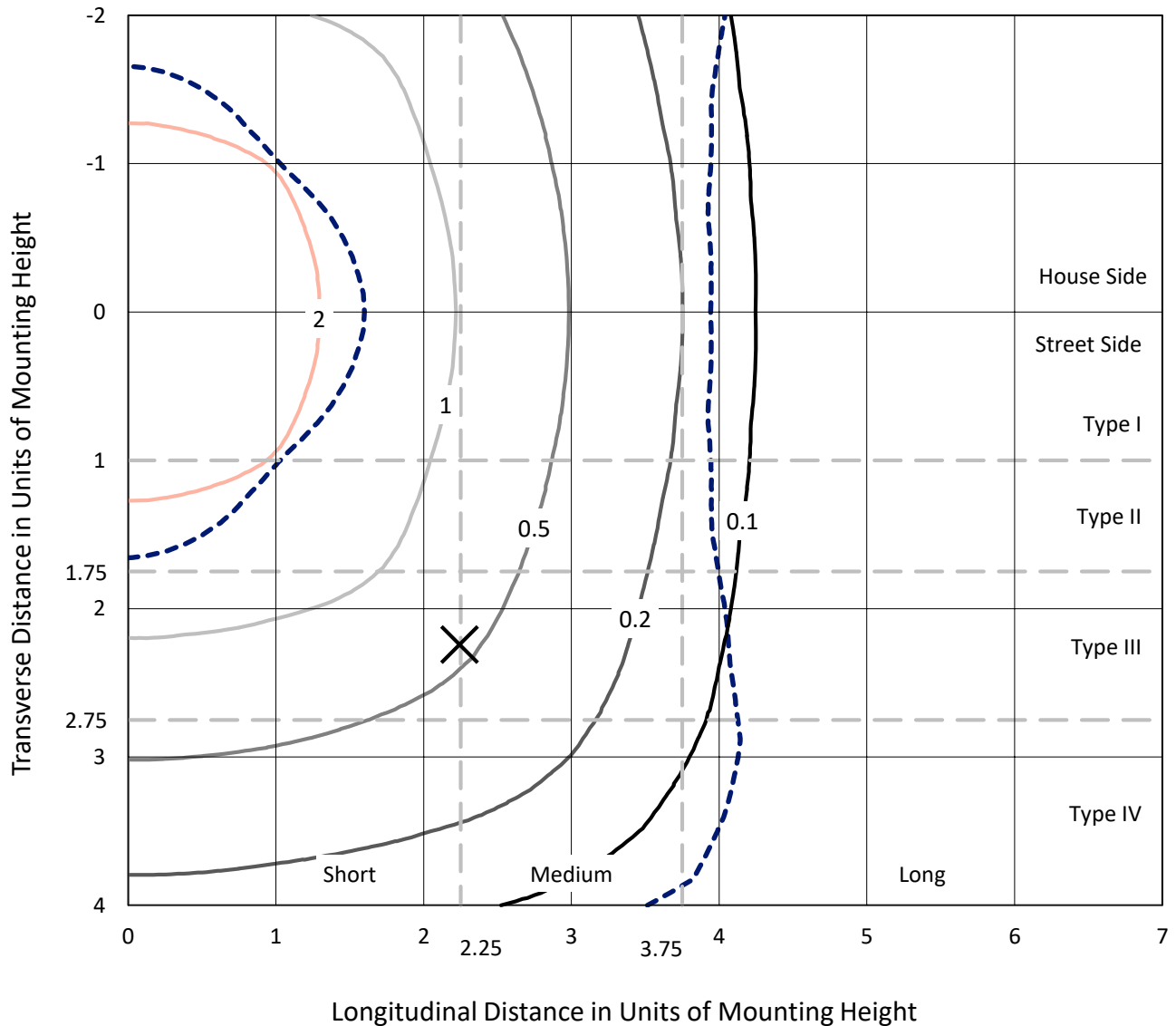


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

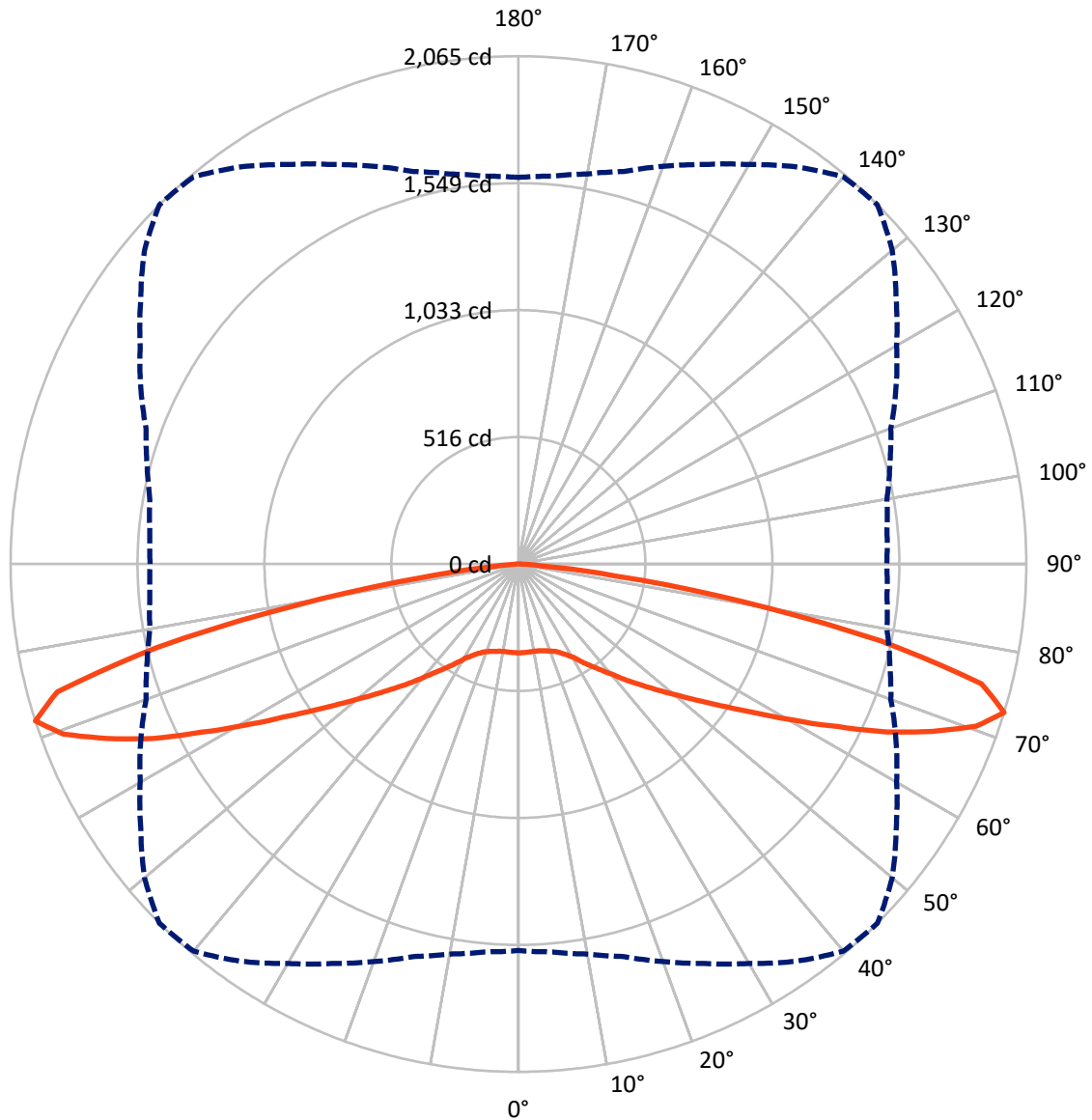


Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2542.0	0.0	2542.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2542.0	0.0	2542.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5084.0	0.0	5084.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.5	0.7
10°-20°	104.4	2.1
20°-30°	188.5	3.7
30°-40°	321.5	6.3
40°-50°	547.4	10.8
50°-60°	880.9	17.3
60°-70°	1465.0	28.8
70°-80°	1417.2	27.9
80°-90°	124.7	2.5
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°	5084.0	100.0
0°-180°	5084.0	100.0



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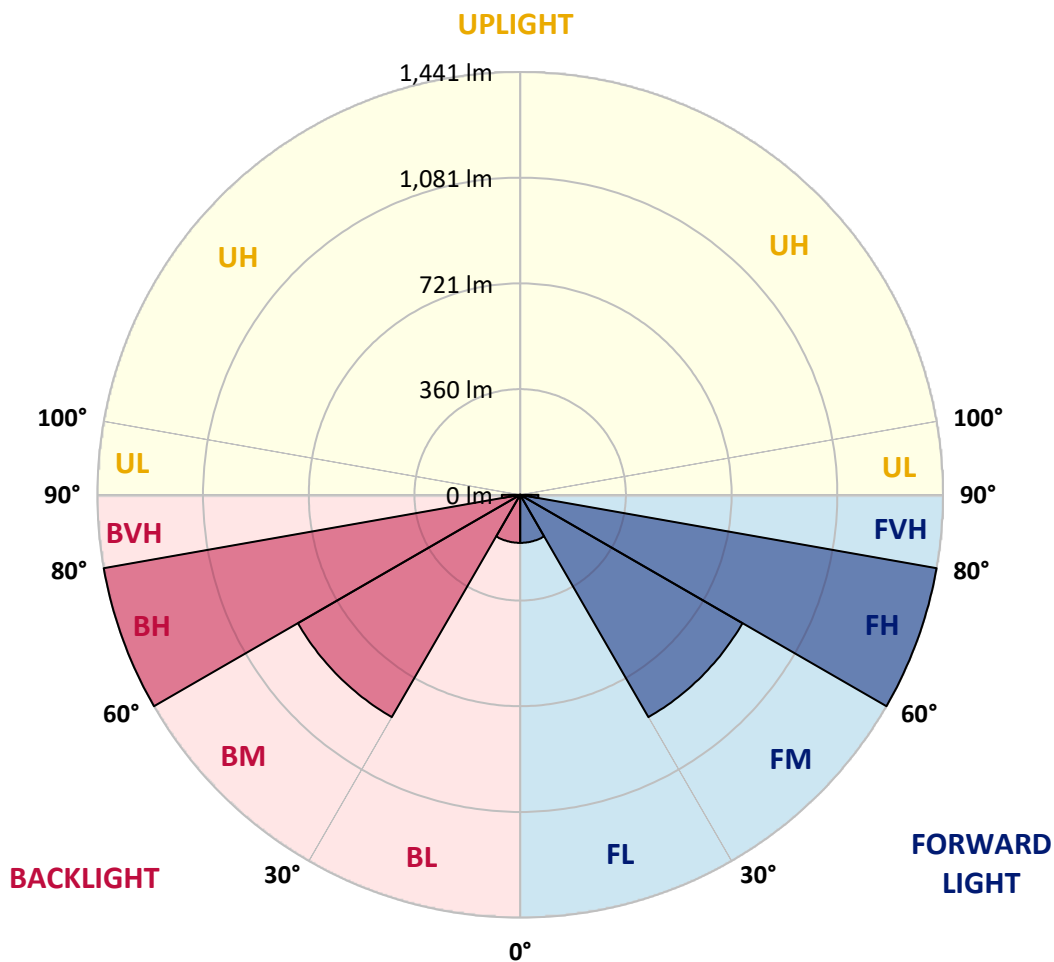
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	163.7	3.2			
FM	(30°-60°)	874.9	17.2			
FH	(60°-80°)	1441.1	28.3			G1/1800
FVH	(80°-90°)	62.4	1.2			G1/100
BL	(0°-30°)	163.7	3.2	B1/500		
BM	(30°-60°)	874.9	17.2	B1/1000		
BH	(60°-80°)	1441.1	28.3	B3/2500		G1/1800
BVH	(80°-90°)	62.4	1.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	361.4	361.4	361.4	361.4	361.4	361.4	361.4	361.4	361.4	361.4	361.4
2.5°	364.3	364.3	364.6	364.3	363.6	363.3	362.4	361.7	361.1	360.8	360.2
5°	364.6	364.6	364.9	364.6	363.9	363.3	362.7	361.7	361.1	360.5	360.2
7.5°	365.8	366.1	366.4	366.1	364.9	364.3	363.3	362.4	361.1	360.5	359.9
10°	368.3	368.3	368.3	368.0	367.1	365.8	364.6	363.6	362.1	360.5	359.6
12.5°	370.2	370.5	370.5	369.9	368.6	367.1	365.8	364.9	363.6	362.4	361.4
15°	373.0	373.0	372.7	371.4	369.6	368.3	367.7	367.4	367.1	366.4	365.5
17.5°	378.6	378.3	377.4	375.5	373.3	372.4	371.8	371.8	371.8	371.4	370.8
20°	386.8	386.8	385.5	382.4	380.5	379.6	378.6	378.6	378.6	377.7	376.8
22.5°	399.9	400.2	398.4	394.6	392.1	390.2	389.0	388.0	387.1	386.5	384.9
25°	417.8	417.4	415.3	410.6	408.7	406.8	404.3	402.7	401.5	400.6	398.7
27.5°	436.5	436.2	433.7	429.7	428.4	425.6	423.7	421.5	420.0	418.4	416.5
30°	460.6	459.1	457.2	454.1	453.4	451.2	448.7	445.6	443.1	440.6	438.4
32.5°	482.2	482.2	479.4	477.8	479.1	478.2	478.5	476.6	475.0	474.1	471.9
35°	512.3	512.3	511.0	509.1	509.5	507.3	506.9	507.3	508.5	508.5	506.0
37.5°	552.3	552.9	548.9	548.3	546.7	543.6	542.0	542.6	545.4	547.0	543.6
40°	602.1	603.3	602.1	598.0	596.1	590.8	587.7	587.7	589.9	591.4	590.2
42.5°	651.2	653.4	651.2	648.1	646.5	642.4	640.9	642.1	644.9	646.8	644.9
45°	706.0	707.5	704.7	701.0	699.1	696.9	696.0	696.9	700.0	701.9	701.3
47.5°	759.8	762.0	758.5	757.0	757.0	754.8	757.3	759.8	762.6	767.0	765.1
50°	812.4	815.2	813.0	813.3	815.8	819.9	824.6	829.6	834.6	839.3	839.9
52.5°	859.3	863.7	864.0	869.6	877.5	883.7	896.9	907.8	919.7	923.8	921.9
55°	908.7	914.7	922.5	931.3	943.8	956.6	978.8	998.6	1014.2	1023.9	1022.3
57.5°	979.5	985.4	993.6	1007.9	1026.7	1044.2	1074.6	1105.3	1129.1	1143.8	1136.6
60°	1071.2	1077.4	1088.1	1103.4	1127.8	1151.6	1193.2	1237.3	1274.3	1291.1	1278.0
62.5°	1192.6	1198.5	1205.4	1225.7	1253.0	1283.6	1335.9	1392.5	1439.5	1455.8	1437.3
65°	1365.6	1372.8	1375.0	1391.6	1418.2	1446.7	1503.0	1566.8	1620.4	1647.0	1610.0
67.5°	1560.6	1563.4	1572.2	1591.6	1618.8	1644.4	1688.9	1749.3	1800.6	1815.3	1775.9
70°	1674.8	1680.4	1695.8	1722.7	1755.2	1795.6	1844.1	1909.2	1967.4	1974.3	1924.2
72.5°	1571.5	1583.1	1610.3	1652.3	1720.5	1792.2	1875.7	1971.8	2055.3	2065.0	1984.6
75°	1260.5	1273.6	1306.2	1352.2	1432.9	1539.3	1660.1	1804.4	1929.5	1945.5	1839.1
77.5°	671.9	688.1	735.4	797.3	912.5	1053.3	1198.8	1363.4	1469.8	1505.8	1429.2
80°	169.3	178.1	200.9	237.2	315.1	428.7	554.2	731.3	863.4	919.4	863.4
82.5°	65.7	72.3	78.5	82.9	90.4	106.1	146.5	238.8	321.7	396.2	343.0
85°	25.3	26.9	38.8	44.1	44.1	48.5	55.7	65.7	81.4	88.9	74.5
87.5°	10.0	11.0	13.5	20.7	21.3	18.8	20.0	22.5	17.2	14.4	16.3
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°	361.4	361.4	361.4	361.4	361.4	361.4	361.4	361.4
2.5°	359.9	359.6	358.9	359.2	358.9	358.9	358.9	358.9
5°	359.6	359.6	358.9	358.9	358.9	359.2	358.9	358.9
7.5°	359.2	358.9	358.3	358.0	358.0	357.7	357.7	357.7
10°	358.6	358.0	357.4	357.1	357.1	356.4	356.4	356.4
12.5°	360.2	359.2	358.6	358.3	358.3	358.3	358.6	358.6
15°	364.6	362.7	361.7	361.4	361.7	362.4	362.7	363.0
17.5°	369.3	367.4	365.8	365.2	365.5	366.4	367.4	368.0
20°	375.2	373.6	371.8	371.1	371.1	372.4	373.0	374.0
22.5°	383.7	382.4	380.8	379.9	379.3	380.8	381.8	382.4
25°	397.1	395.9	394.6	393.7	393.4	394.9	395.5	395.9
27.5°	414.9	413.7	413.1	412.8	411.8	412.4	413.4	413.1
30°	438.1	439.0	438.1	438.1	436.5	437.2	436.5	435.9
32.5°	469.1	468.1	465.3	463.4	461.3	461.3	460.3	459.4
35°	500.1	496.9	495.4	496.3	495.4	496.0	494.4	492.9
37.5°	536.7	534.8	534.5	537.3	536.7	537.3	537.3	535.1
40°	585.2	583.9	586.1	590.8	592.7	592.4	593.0	590.2
42.5°	640.9	638.7	639.6	643.7	645.9	646.5	646.2	643.7
45°	696.6	697.2	697.2	701.6	703.8	705.0	702.8	701.9
47.5°	759.5	760.4	758.2	761.0	761.7	763.9	762.0	760.4
50°	832.1	828.6	823.6	824.6	824.6	823.9	821.8	819.9
52.5°	913.1	905.3	895.9	892.8	889.3	885.9	881.5	878.1
55°	1005.4	992.0	975.1	967.3	960.7	952.9	942.9	939.4
57.5°	1112.5	1089.3	1066.8	1052.7	1035.8	1025.5	1012.6	1012.0
60°	1239.5	1208.2	1168.5	1147.5	1130.6	1118.4	1108.7	1105.0
62.5°	1386.3	1332.5	1289.6	1267.1	1247.3	1239.8	1227.6	1229.2
65°	1536.8	1482.0	1440.4	1422.3	1403.8	1398.8	1387.5	1391.6
67.5°	1699.8	1654.8	1609.1	1592.2	1575.3	1570.3	1558.7	1562.1
70°	1846.0	1788.7	1736.8	1703.6	1674.8	1651.6	1636.9	1631.0
72.5°	1875.1	1775.9	1694.2	1611.3	1563.4	1521.5	1504.3	1497.7
75°	1684.8	1530.9	1414.4	1317.1	1263.3	1202.3	1195.7	1186.6
77.5°	1310.6	1135.3	994.5	869.3	797.0	722.6	696.9	677.5
80°	781.7	600.8	465.6	326.4	266.3	214.4	201.5	188.1
82.5°	279.8	179.3	120.8	94.2	84.2	77.6	72.6	66.0
85°	67.6	57.0	53.8	48.8	48.2	41.0	29.1	26.0
87.5°	21.6	19.7	20.0	19.1	20.0	15.0	12.2	11.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)