

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: P198490

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198490  
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-7030-600  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 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: 3627 lumens  
Efficiency: N/A  
Efficacy: 106.7 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 - G0

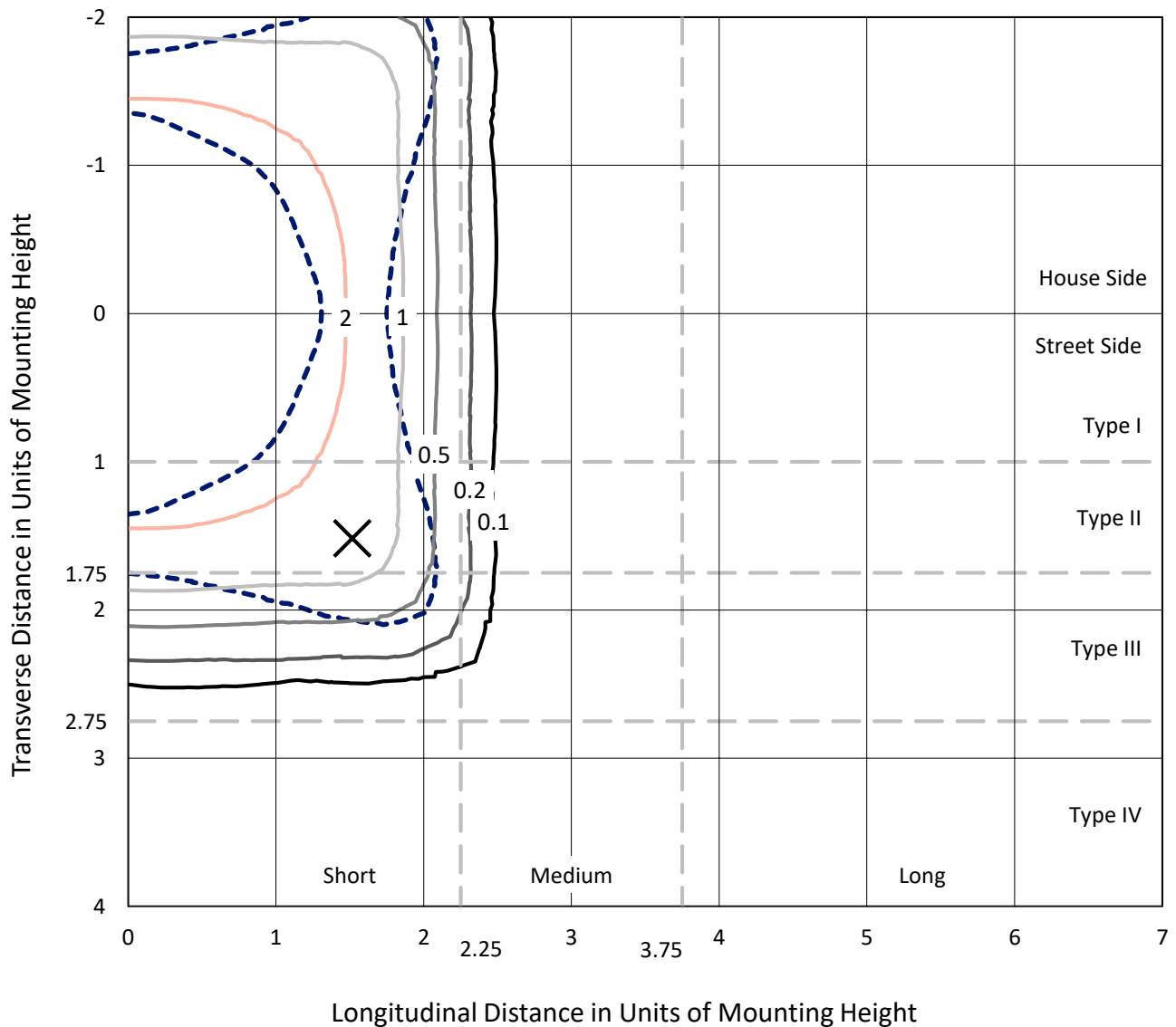
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

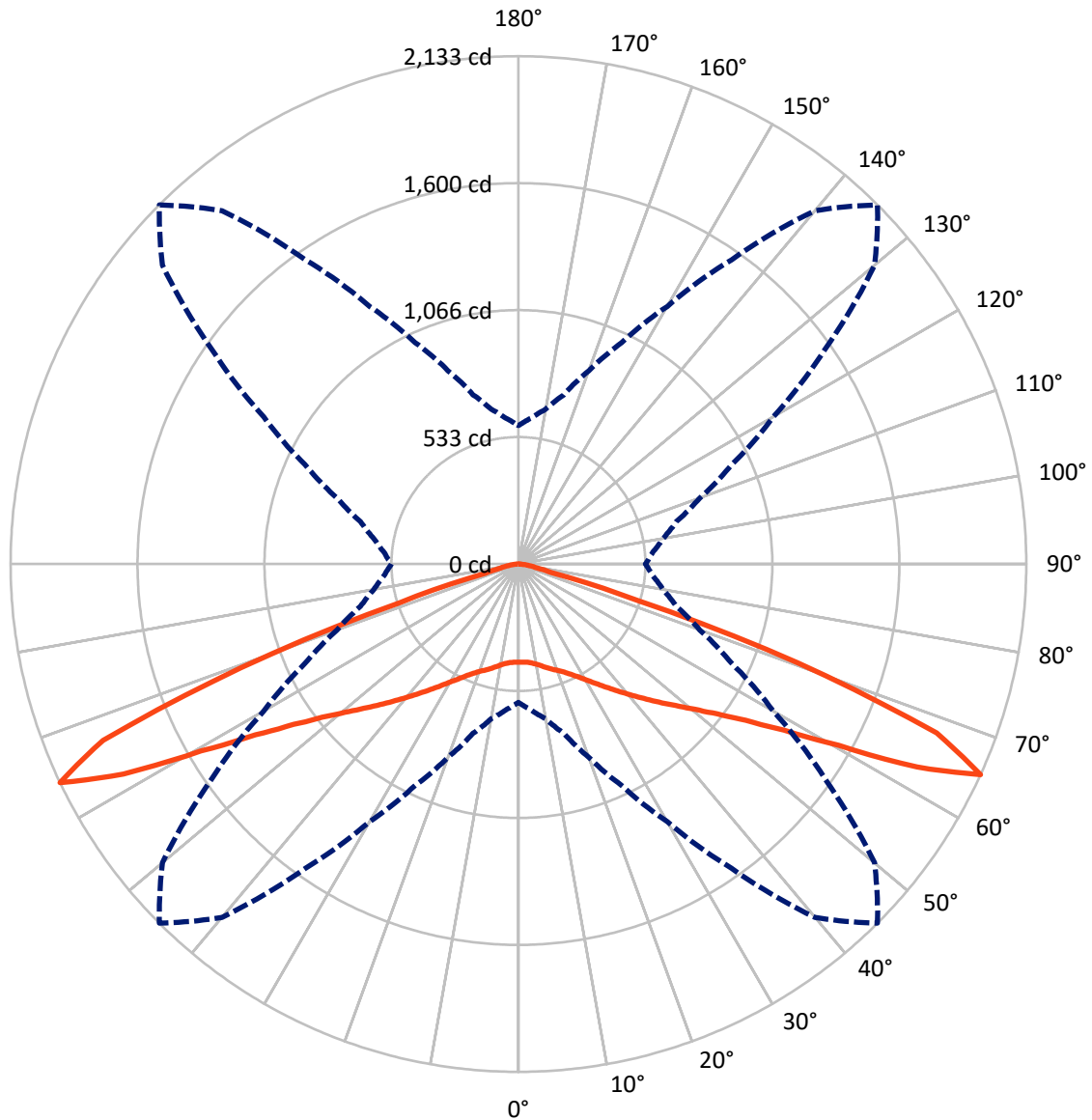
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.1 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
<b>House Side</b>	Lumens	1813.5	0.0	1813.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1813.5	0.0	1813.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3627.0	0.0	3627.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.2	1.1
10°-20°	128.8	3.6
20°-30°	240.2	6.6
30°-40°	405.0	11.2
40°-50°	657.9	18.1
50°-60°	1030.8	28.4
60°-70°	973.0	26.8
70°-80°	131.1	3.6
80°-90°	20.0	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°	3627.0	100.0
0°-180°	3627.0	100.0

**Coefficient of Utilization**



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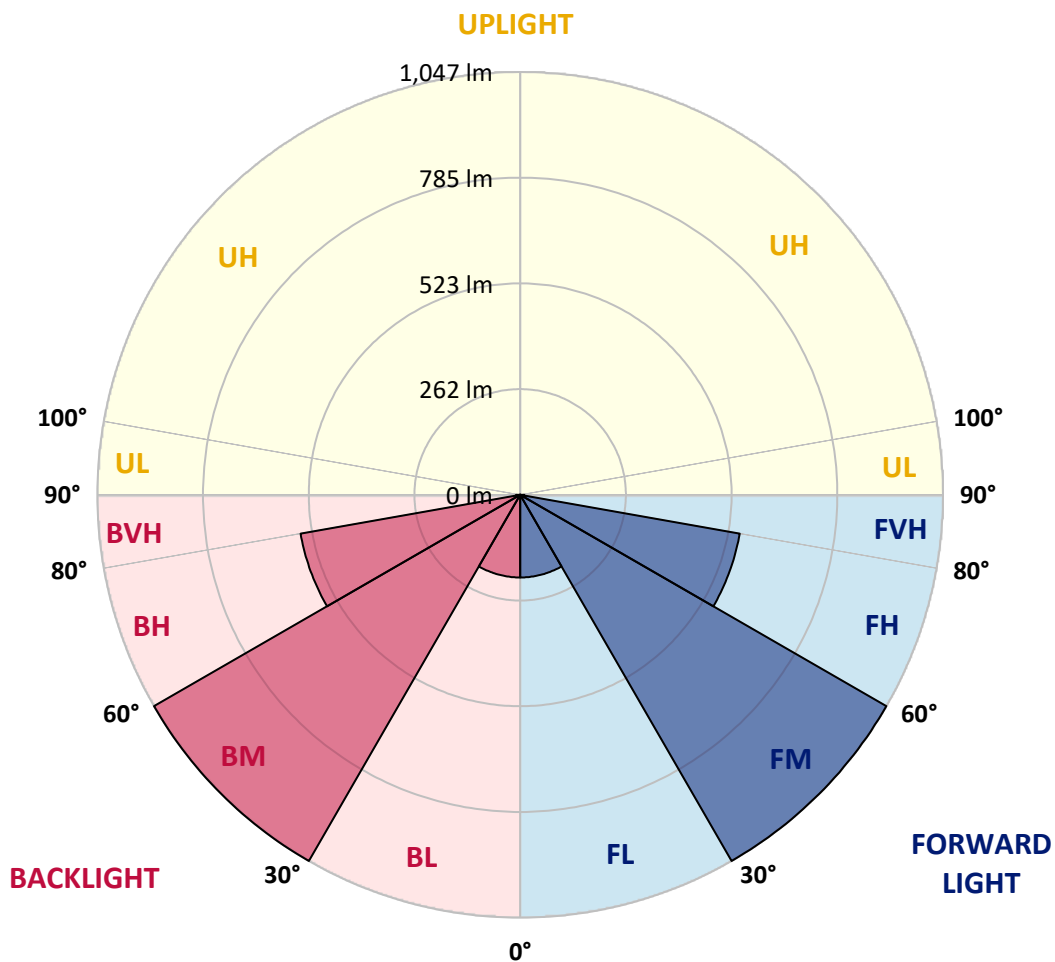
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	204.6	5.6			
FM	(30°-60°)	1046.9	28.9			
FH	(60°-80°)	552.1	15.2			G0/660
FVH	(80°-90°)	10.0	0.3			G0/10
BL	(0°-30°)	204.6	5.6	B1/500		
BM	(30°-60°)	1046.9	28.9	B2/2500		
BH	(60°-80°)	552.1	15.2	B2/1000		G0/660
BVH	(80°-90°)	10.0	0.3			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	412.6	412.6	412.6	412.6	412.6	412.6	412.6	412.6	412.6	412.6	412.6
2.5°	416.0	416.0	416.6	416.4	415.5	414.8	414.1	413.2	412.8	412.3	412.1
5°	418.2	418.2	418.9	418.7	418.0	417.1	416.6	416.0	415.3	414.8	415.1
7.5°	423.9	424.1	424.3	424.1	423.4	422.7	421.8	421.6	420.7	420.0	420.5
10°	432.4	432.4	432.7	432.9	432.4	430.9	430.9	430.4	429.5	428.6	428.8
12.5°	441.9	441.9	442.2	442.2	442.2	441.3	441.5	441.3	440.1	439.7	440.1
15°	451.2	451.4	451.4	451.9	451.9	452.1	453.0	453.0	452.6	452.3	452.3
17.5°	462.0	462.5	462.7	463.4	463.6	464.1	465.0	465.2	465.4	464.8	465.0
20°	476.5	476.7	477.4	477.6	478.5	478.5	479.0	478.8	478.3	477.4	477.4
22.5°	492.8	493.2	494.6	494.6	495.7	495.0	495.3	494.6	493.5	493.0	492.5
25°	514.0	514.7	515.8	515.4	515.8	514.7	514.7	514.7	514.0	513.3	513.1
27.5°	540.9	539.8	540.9	540.0	539.8	538.9	539.1	538.6	538.0	537.7	536.8
30°	568.9	567.6	568.2	568.5	568.0	567.8	566.9	566.2	565.1	565.3	564.6
32.5°	601.0	599.6	600.3	600.5	600.1	600.5	600.3	598.7	597.4	598.3	598.3
35°	639.2	638.3	640.1	640.8	639.4	638.7	637.8	636.0	634.0	635.3	635.6
37.5°	685.1	683.9	685.3	687.1	684.6	683.2	679.6	676.9	675.6	676.2	677.1
40°	732.7	733.0	736.8	737.2	734.5	733.0	729.3	725.3	721.4	721.4	722.6
42.5°	782.9	783.6	788.1	789.7	788.8	785.8	780.8	775.9	770.9	771.8	773.2
45°	839.6	838.7	843.4	847.3	846.6	845.7	840.9	831.9	827.4	827.2	829.4
47.5°	899.2	901.0	906.0	912.6	912.3	910.1	904.0	895.6	887.3	887.9	890.7
50°	968.8	971.3	979.7	986.2	987.1	986.5	979.2	969.5	957.8	958.4	962.1
52.5°	1031.2	1034.8	1044.5	1058.1	1066.4	1070.3	1065.5	1056.5	1044.5	1045.2	1049.0
55°	1087.7	1093.3	1107.8	1126.3	1143.0	1158.6	1165.6	1165.4	1156.6	1158.6	1163.6
57.5°	1123.1	1131.1	1153.0	1182.8	1216.0	1247.4	1274.5	1300.1	1305.7	1316.3	1316.3
60°	1075.5	1094.0	1123.1	1174.2	1239.5	1310.0	1386.4	1460.7	1508.6	1546.3	1526.0
62.5°	898.1	925.5	966.3	1033.7	1135.3	1261.2	1414.6	1587.5	1767.8	1878.0	1797.1
65°	581.1	615.5	660.0	735.7	863.8	1025.8	1249.2	1559.9	1937.2	2132.9	1952.1
67.5°	230.2	253.5	280.6	334.4	445.6	604.6	855.4	1238.6	1710.6	1895.2	1692.5
70°	110.0	113.9	119.1	130.6	158.4	213.7	343.7	610.3	1049.0	1243.6	1024.0
72.5°	79.5	80.2	82.7	86.5	94.7	106.0	128.8	186.6	361.7	526.0	362.2
75°	60.3	61.2	62.6	64.6	68.9	74.3	82.9	99.4	123.8	142.8	123.6
77.5°	45.9	46.8	47.9	49.9	52.2	56.0	59.2	65.7	76.1	80.2	79.8
80°	33.4	35.0	36.8	38.6	40.2	42.0	42.3	45.4	51.3	55.1	54.0
82.5°	21.2	22.6	27.3	29.4	29.6	30.1	29.8	30.1	33.2	35.9	35.0
85°	13.6	14.5	16.9	19.2	18.8	19.7	19.7	19.2	17.8	15.4	18.3
87.5°	6.8	7.0	8.1	10.2	9.7	8.6	8.4	8.4	6.1	5.2	5.6
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°	412.6	412.6	412.6	412.6	412.6	412.6	412.6	412.6
2.5°	411.4	411.9	411.2	411.2	411.0	411.4	410.8	410.8
5°	414.6	415.3	415.1	415.1	415.5	416.0	415.7	415.5
7.5°	420.2	420.7	421.2	421.4	421.8	421.6	422.1	421.8
10°	428.8	428.4	429.1	428.4	428.6	428.2	428.4	428.4
12.5°	439.7	439.0	438.6	438.1	438.1	437.2	437.2	437.4
15°	452.1	451.0	450.1	449.6	449.2	449.2	448.5	448.9
17.5°	464.3	463.2	461.6	461.6	460.9	460.5	460.0	461.1
20°	477.2	476.1	475.2	474.9	473.6	473.1	473.3	474.7
22.5°	492.1	491.4	491.4	491.0	490.1	489.4	489.4	491.0
25°	512.2	510.9	511.1	511.3	510.9	510.9	510.4	511.5
27.5°	536.8	535.7	536.4	536.8	536.4	537.1	536.4	537.3
30°	565.8	565.1	565.8	566.4	565.3	565.3	564.9	565.5
32.5°	600.3	599.4	599.9	599.9	598.3	596.9	595.1	596.5
35°	638.3	637.2	638.1	638.7	636.9	635.6	632.9	634.0
37.5°	680.1	680.5	681.7	684.6	684.1	681.9	679.9	680.8
40°	726.8	729.1	734.1	736.1	735.7	733.4	730.7	731.1
42.5°	779.7	782.7	787.9	791.2	789.7	786.5	783.1	784.5
45°	837.3	841.9	848.6	852.0	850.0	846.6	841.9	844.3
47.5°	898.3	907.4	916.4	920.9	920.3	915.5	909.4	910.1
50°	971.3	983.3	994.8	999.3	995.9	988.7	980.1	979.9
52.5°	1062.1	1075.0	1084.5	1083.4	1075.0	1063.7	1054.0	1053.6
55°	1175.6	1179.9	1178.5	1168.8	1154.1	1136.5	1124.1	1122.0
57.5°	1312.7	1298.3	1277.0	1247.6	1214.7	1181.2	1158.6	1150.3
60°	1480.4	1415.1	1339.1	1259.2	1186.2	1131.5	1096.9	1075.9
62.5°	1618.9	1429.7	1260.1	1121.1	1007.5	939.9	892.7	863.5
65°	1571.4	1235.2	989.4	810.2	686.2	616.4	566.4	533.2
67.5°	1214.0	825.4	574.3	398.1	301.9	255.5	223.2	202.2
70°	612.1	316.5	191.8	135.3	115.7	107.5	102.1	99.0
72.5°	179.6	120.0	99.6	88.1	81.1	76.1	73.0	71.4
75°	99.4	81.1	71.6	65.1	60.6	57.2	55.1	53.8
77.5°	68.5	59.0	54.2	49.9	46.3	43.8	42.3	40.9
80°	47.9	43.2	41.1	38.9	36.2	34.1	31.9	31.0
82.5°	31.9	29.8	29.4	27.6	26.0	23.7	19.7	18.3
85°	18.8	18.5	18.5	17.8	16.7	14.7	11.7	11.7
87.5°	6.6	6.8	7.0	7.5	7.2	6.1	5.0	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)