

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: P198682

Luminaire Tested: **XNV-AF-01-LED-U-RW-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24161)
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-RW-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4165.5 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B2 - U0 - G1

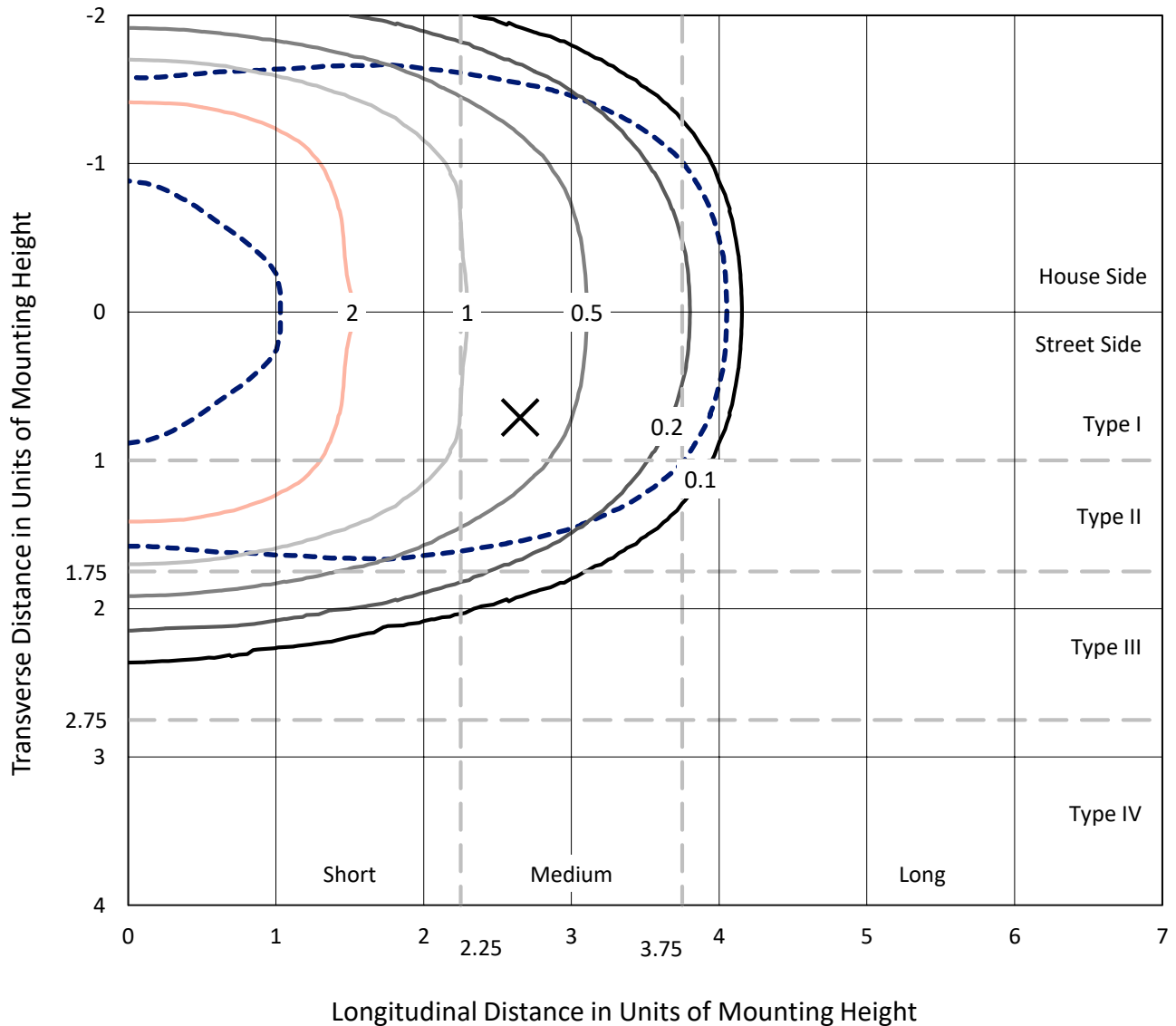
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

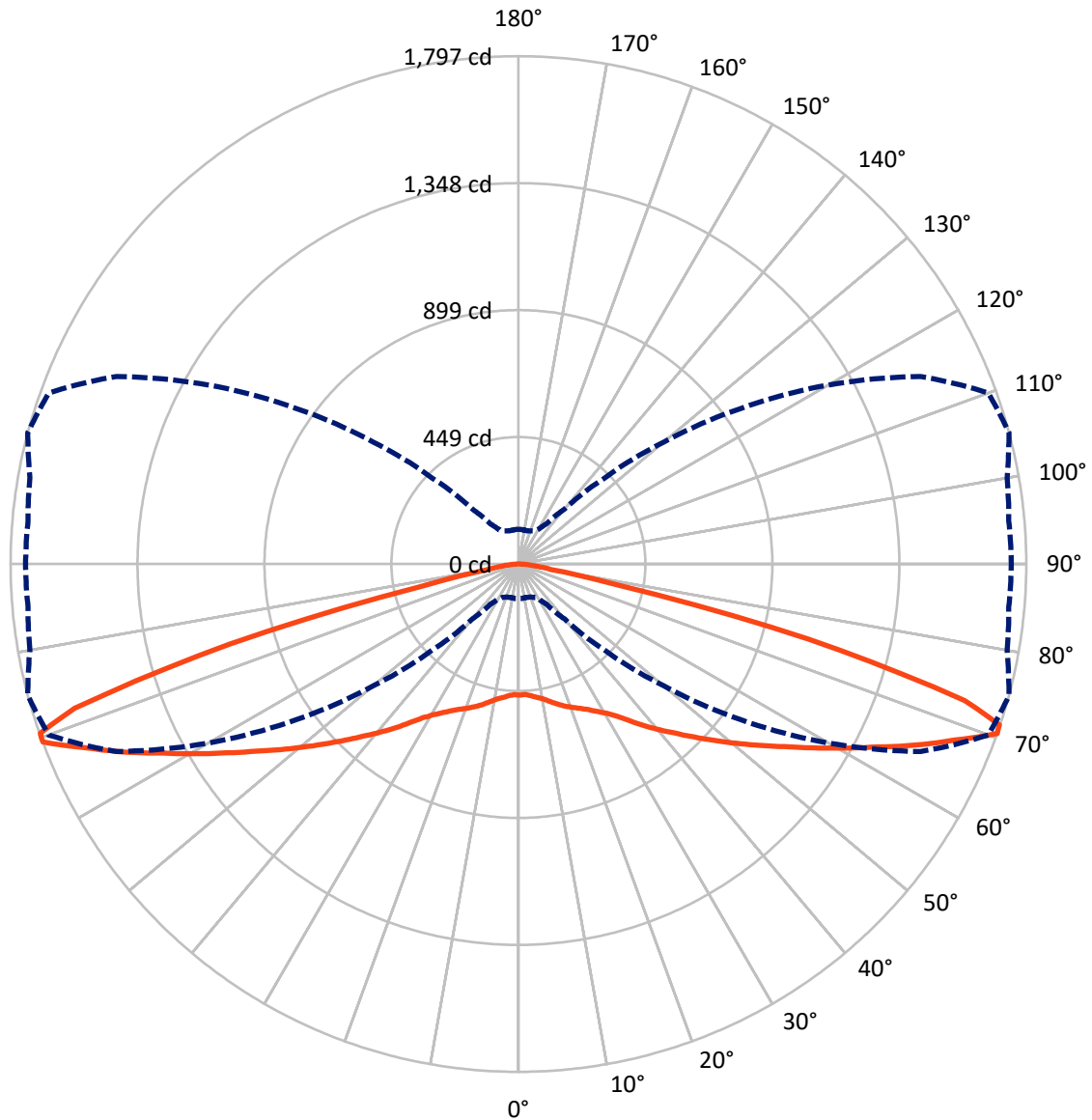


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2082.7	0.0	2082.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2082.7	0.0	2082.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	4165.5	0.0	4165.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.5	1.1
10°-20°	138.0	3.3
20°-30°	259.2	6.2
30°-40°	456.5	11.0
40°-50°	756.6	18.2
50°-60°	1052.5	25.3
60°-70°	993.6	23.9
70°-80°	424.4	10.2
80°-90°	40.1	1.0
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°	4165.5	100.0
0°-180°	4165.5	100.0



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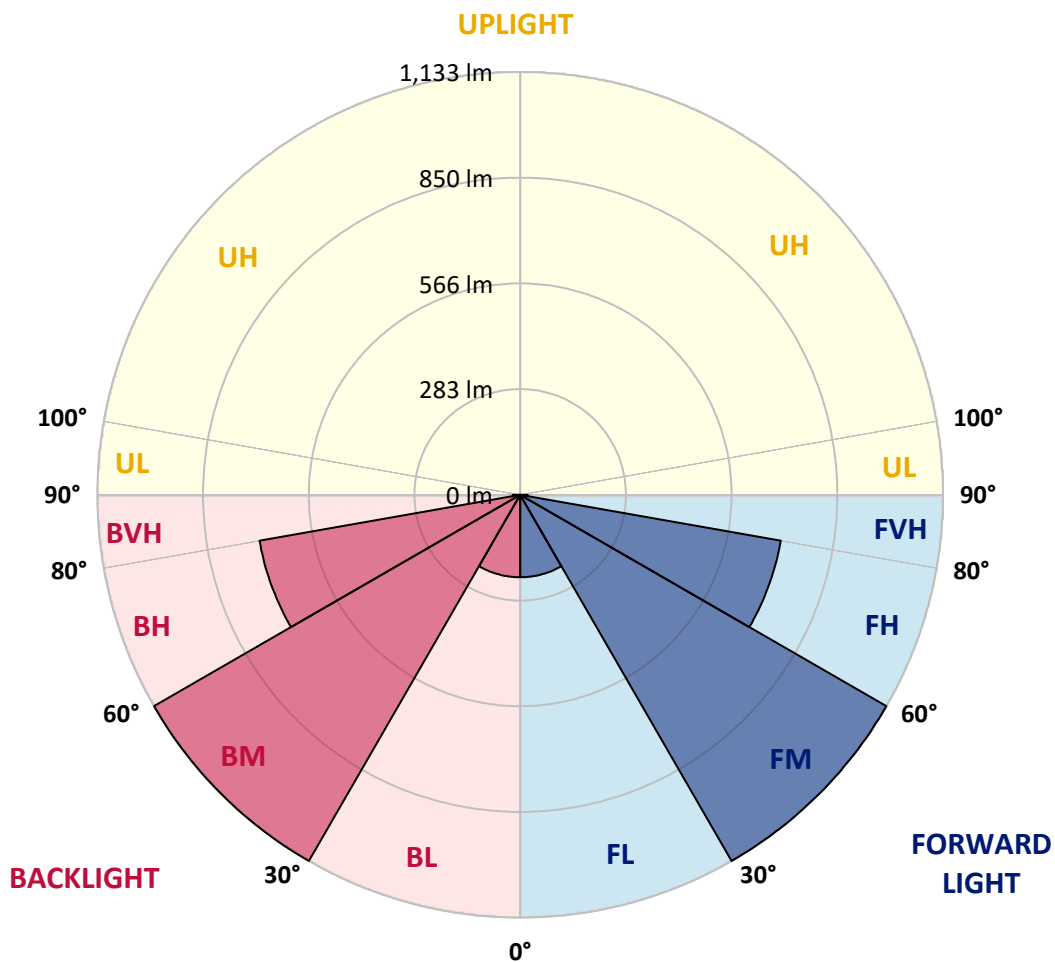
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	220.8	5.3			
FM (30°-60°)	1132.8	27.2			
FH (60°-80°)	709.0	17.0			G1/1800
FVH (80°-90°)	20.0	0.5			G1/100
BL (0°-30°)	220.8	5.3	B1/500		
BM (30°-60°)	1132.8	27.2	B2/2500		
BH (60°-80°)	709.0	17.0	B2/1000		G1/1800
BVH (80°-90°)	20.0	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	463.9	463.9	463.9	463.9	463.9	463.9	463.9	463.9	463.9	463.9	463.9
2.5°	466.8	466.5	466.8	466.0	466.3	466.0	466.0	464.9	464.9	464.4	463.6
5°	461.6	462.1	462.1	462.1	462.8	462.8	463.9	464.1	464.9	465.6	466.3
7.5°	452.9	453.2	454.0	454.5	456.0	458.1	460.2	462.6	464.6	467.3	470.1
10°	445.6	446.1	447.4	448.8	451.6	454.2	457.9	461.6	465.1	469.6	474.0
12.5°	441.7	442.4	444.6	446.6	451.1	454.5	459.4	465.1	470.1	474.3	479.3
15°	442.2	442.4	445.3	448.2	454.5	459.2	466.3	473.0	479.0	483.8	489.5
17.5°	449.8	450.3	453.2	457.4	463.3	469.3	476.9	484.0	492.0	497.6	504.3
20°	464.6	465.4	468.6	473.0	479.6	485.8	493.6	500.9	509.3	515.8	522.6
22.5°	484.0	485.3	488.7	494.2	500.6	508.2	516.3	523.9	531.7	538.3	544.0
25°	509.8	511.4	515.1	520.5	527.0	535.1	543.5	551.3	559.5	564.4	569.1
27.5°	544.5	547.2	551.1	555.5	561.2	569.9	577.7	584.2	592.1	597.5	600.7
30°	591.3	594.9	598.0	602.7	606.9	616.0	622.4	627.6	633.5	636.7	637.5
32.5°	648.4	651.8	654.9	658.4	664.1	672.4	678.4	681.3	684.5	683.9	681.1
35°	712.9	715.6	717.3	723.3	732.7	738.3	742.7	743.7	744.2	738.8	733.3
37.5°	780.7	783.9	785.4	794.8	803.7	810.0	812.1	814.5	812.8	803.7	793.8
40°	854.2	857.5	862.2	870.3	880.8	886.8	889.4	889.0	887.8	877.1	860.9
42.5°	926.2	930.4	934.3	948.4	957.0	967.1	968.4	968.2	965.4	953.1	934.3
45°	987.2	992.2	1000.3	1016.0	1029.8	1042.1	1047.0	1048.8	1046.0	1033.0	1011.5
47.5°	1037.6	1041.1	1051.2	1070.2	1088.0	1106.0	1115.9	1123.0	1122.7	1113.3	1090.6
50°	1072.1	1076.0	1088.5	1109.9	1132.1	1153.3	1172.8	1188.8	1196.3	1189.6	1168.4
52.5°	1082.0	1087.0	1103.5	1129.0	1154.8	1183.2	1212.5	1240.7	1257.7	1261.8	1245.4
55°	1040.2	1045.8	1069.7	1105.2	1147.8	1189.8	1234.2	1274.4	1309.4	1325.5	1319.0
57.5°	918.6	922.5	953.1	999.0	1059.8	1133.7	1208.3	1282.0	1342.0	1384.1	1391.3
60°	726.5	731.4	764.9	813.3	882.6	976.0	1080.4	1201.0	1318.8	1415.0	1462.8
62.5°	490.2	493.6	525.7	570.1	645.8	735.9	852.3	1004.9	1172.8	1344.9	1479.6
65°	257.4	257.4	279.1	310.2	370.4	451.1	570.4	727.0	926.7	1141.5	1366.8
67.5°	149.4	149.0	154.1	161.0	180.1	212.8	278.5	393.6	582.7	832.7	1089.0
70°	123.2	122.4	121.6	121.6	124.5	129.5	142.0	173.6	254.0	429.4	670.1
71°	117.7	117.2	115.1	114.4	115.6	118.3	123.8	138.3	180.3	292.9	500.4
72.5°	111.2	109.9	106.8	105.5	105.7	106.8	108.3	114.1	126.8	166.5	285.3
75°	101.3	98.1	94.2	92.4	91.7	91.3	91.3	92.9	95.9	100.5	116.9
77.5°	89.8	85.3	81.2	79.4	78.1	77.2	76.7	75.7	75.2	77.2	83.3
80°	76.0	71.3	67.8	66.8	66.1	64.4	62.4	60.3	59.0	60.0	63.7
82.5°	58.7	54.0	54.5	54.8	53.5	50.9	48.8	46.4	44.1	43.6	45.4
85°	46.7	44.4	42.8	46.2	43.4	40.2	37.3	33.5	27.9	23.0	25.1
87.5°	20.0	20.4	29.3	44.1	38.7	31.1	25.9	20.9	13.3	9.9	10.2
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°	463.9	463.9	463.9	463.9	463.9	463.9	463.9	463.9
2.5°	463.3	463.3	462.6	462.1	462.1	462.1	461.6	461.8
5°	466.5	467.0	467.5	467.3	468.0	468.8	468.6	468.3
7.5°	471.7	473.2	474.9	475.6	476.7	477.7	477.9	477.2
10°	476.9	480.1	482.4	484.5	485.8	486.8	487.6	487.3
12.5°	483.4	487.8	492.0	496.2	499.1	500.6	502.3	501.8
15°	494.2	499.1	504.3	509.8	514.2	516.6	518.9	518.4
17.5°	508.7	513.2	517.4	522.8	528.4	530.9	533.6	533.3
20°	527.0	530.4	532.8	535.9	541.1	544.0	546.4	545.5
22.5°	547.9	548.9	549.2	550.2	554.4	557.8	561.0	561.7
25°	570.6	569.9	568.2	567.5	570.4	574.0	578.0	579.0
27.5°	598.8	596.2	592.3	589.1	589.9	594.6	599.0	600.2
30°	634.3	628.3	620.0	614.0	613.0	617.9	622.6	624.1
32.5°	674.7	666.7	655.2	646.1	642.1	646.6	650.8	653.2
35°	722.8	713.9	700.1	688.3	682.1	685.0	692.2	694.9
37.5°	779.7	767.4	752.1	737.1	726.7	727.2	735.1	738.3
40°	842.6	824.9	805.3	786.8	771.6	770.6	777.6	780.0
42.5°	908.2	885.5	862.4	838.2	819.4	816.0	825.1	825.4
45°	978.7	949.4	921.0	892.7	873.2	867.2	876.1	877.1
47.5°	1053.8	1017.2	983.6	953.1	931.9	922.5	931.1	932.7
50°	1132.1	1094.3	1055.1	1021.2	996.4	984.9	995.1	996.1
52.5°	1209.6	1173.8	1135.0	1096.1	1066.1	1053.0	1065.0	1068.7
55°	1287.7	1253.2	1216.7	1177.8	1140.0	1128.4	1141.5	1145.4
57.5°	1368.9	1335.8	1302.6	1263.4	1226.6	1209.1	1223.2	1228.7
60°	1458.4	1429.2	1397.9	1358.5	1322.2	1301.8	1313.8	1320.1
62.5°	1546.4	1540.4	1511.9	1470.9	1425.0	1404.6	1414.8	1419.2
65°	1553.7	1651.0	1649.7	1609.0	1544.9	1510.6	1513.5	1515.6
67.5°	1356.1	1579.5	1722.3	1735.1	1663.6	1610.1	1603.8	1605.1
70°	960.1	1266.8	1569.9	1768.8	1797.0	1755.5	1741.9	1744.0
71°	769.3	1087.0	1420.6	1688.2	1794.9	1782.9	1775.3	1780.8
72.5°	491.0	800.9	1125.6	1445.6	1650.5	1709.2	1717.8	1721.3
75°	178.3	344.5	583.2	835.5	1059.1	1212.8	1297.4	1304.2
77.5°	95.9	123.5	190.8	285.1	358.1	397.3	402.0	403.9
80°	70.5	81.7	93.5	106.8	115.1	116.7	113.9	107.8
82.5°	49.8	56.4	61.1	65.8	69.2	66.3	55.0	42.0
85°	28.9	31.8	34.5	36.8	37.3	35.2	23.2	19.0
87.5°	11.5	12.5	12.3	13.8	13.3	12.3	9.1	7.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)