

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: P198662

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198662
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
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6436.4 lumens
Efficiency: N/A
Efficacy: 111.0 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 - G2

Input Watts (W): 58
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

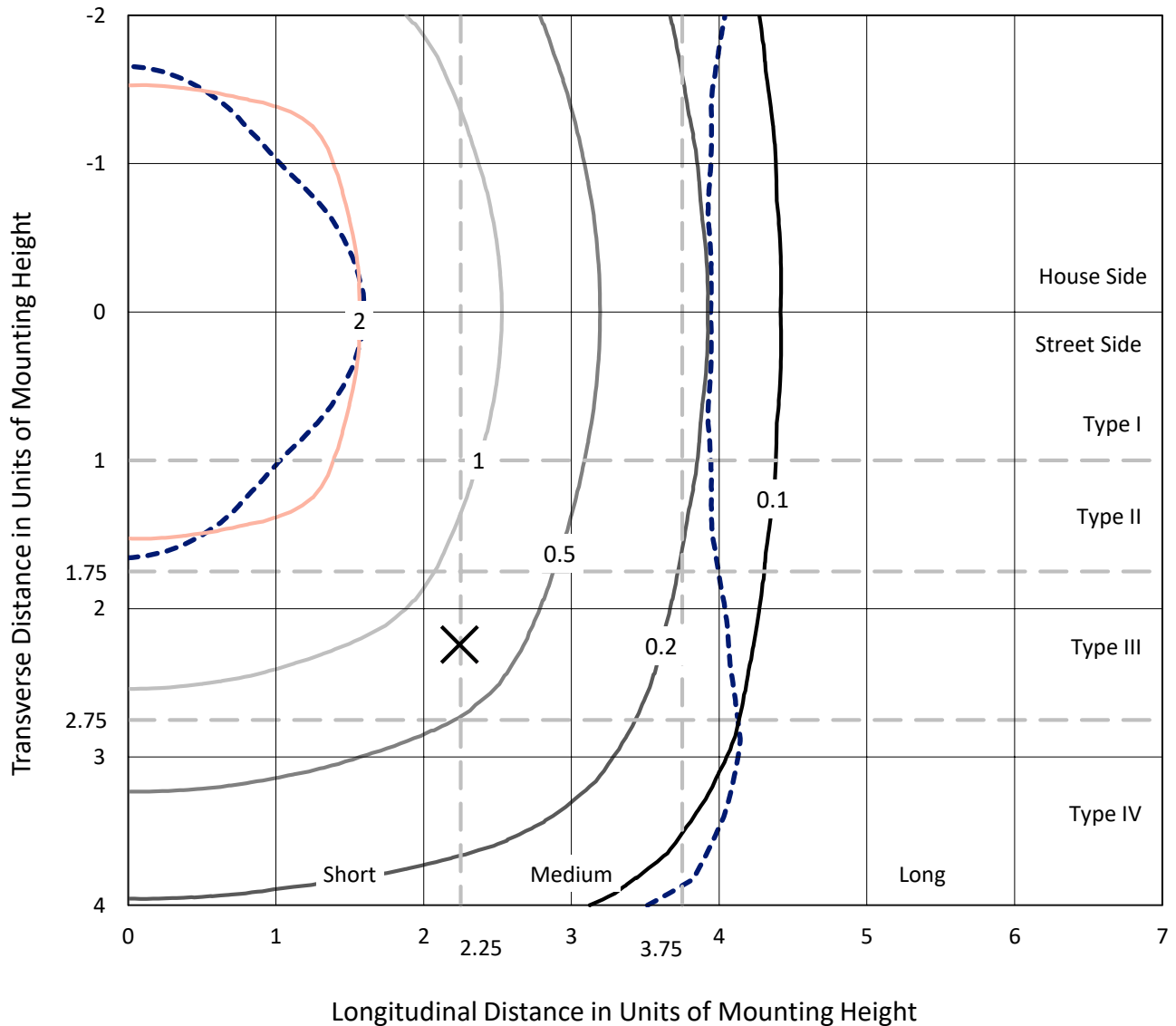


REPORT NUMBER: P198662

CATALOG NUMBER: XNV-AF-01-LED-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

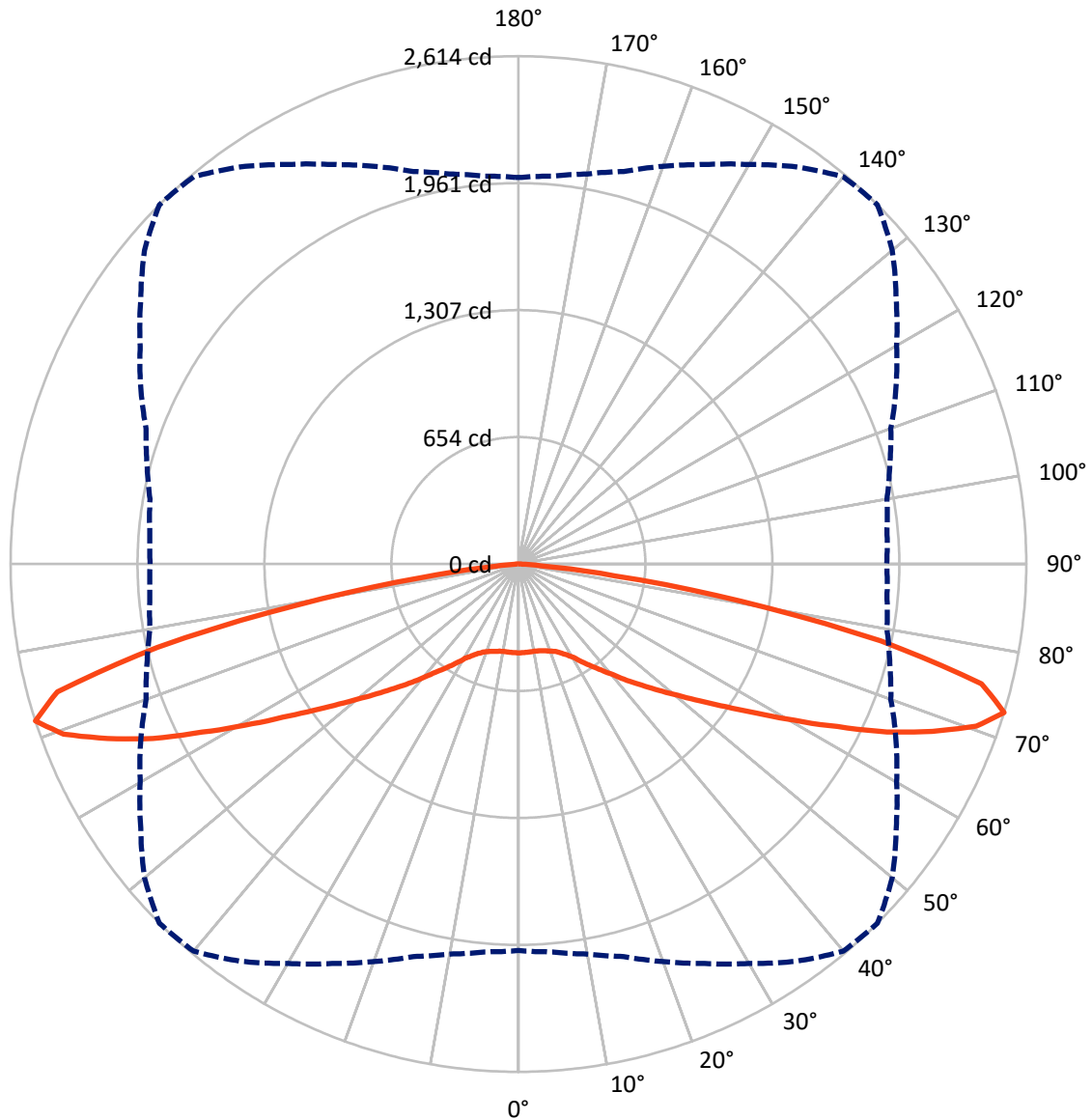


Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P198662

CATALOG NUMBER: XNV-AF-01-LED-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P198662

CATALOG NUMBER: XNV-AF-01-LED-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3218.2	0.0	3218.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3218.2	0.0	3218.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	6436.4	0.0	6436.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.7	0.7
10°-20°	132.2	2.1
20°-30°	238.6	3.7
30°-40°	407.0	6.3
40°-50°	693.0	10.8
50°-60°	1115.2	17.3
60°-70°	1854.6	28.8
70°-80°	1794.2	27.9
80°-90°	157.9	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°	6436.4	100.0
0°-180°	6436.4	100.0



REPORT NUMBER: P198662

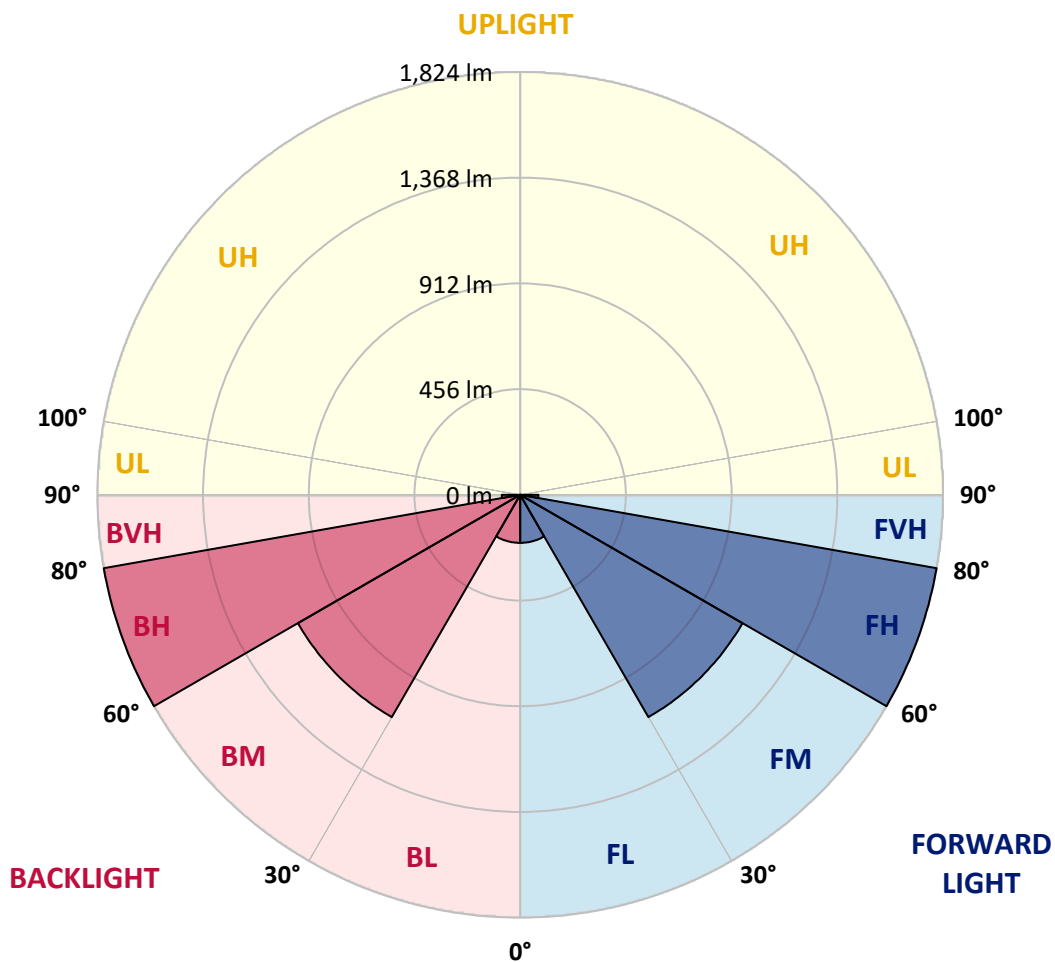
CATALOG NUMBER: XNV-AF-01-LED-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	207.2	3.2			
FM (30°-60°)	1107.6	17.2			
FH (60°-80°)	1824.4	28.3			G2/5000
FVH (80°-90°)	79.0	1.2			G1/100
BL (0°-30°)	207.2	3.2	B1/500		
BM (30°-60°)	1107.6	17.2	B2/2500		
BH (60°-80°)	1824.4	28.3	B3/2500		G2/5000
BVH (80°-90°)	79.0	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-G2

Type V Short





REPORT NUMBER: P198662

CATALOG NUMBER: XNV-AF-01-LED-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6
2.5°	461.1	461.1	461.6	461.1	460.3	459.9	458.8	458.0	457.2	456.7	456.0
5°	461.6	461.6	462.0	461.6	460.7	459.9	459.2	458.0	457.2	456.4	456.0
7.5°	463.1	463.5	463.9	463.5	462.0	461.1	459.9	458.8	457.2	456.4	455.6
10°	466.3	466.3	466.3	465.9	464.7	463.1	461.6	460.3	458.4	456.4	455.2
12.5°	468.7	469.0	469.0	468.3	466.7	464.7	463.1	462.0	460.3	458.8	457.6
15°	472.2	472.2	471.9	470.3	467.9	466.3	465.5	465.1	464.7	463.9	462.7
17.5°	479.4	478.9	477.8	475.4	472.6	471.5	470.7	470.7	470.7	470.3	469.4
20°	489.7	489.7	488.0	484.2	481.7	480.6	479.4	479.4	479.4	478.2	477.0
22.5°	506.4	506.7	504.3	499.6	496.4	494.0	492.4	491.2	490.1	489.3	487.3
25°	528.9	528.5	525.7	519.8	517.4	515.1	511.9	509.8	508.3	507.1	504.7
27.5°	552.7	552.3	549.1	543.9	542.4	538.8	536.4	533.7	531.6	529.7	527.3
30°	583.2	581.1	578.8	574.9	574.1	571.3	568.1	564.2	561.0	557.8	555.1
32.5°	610.5	610.5	606.9	605.0	606.5	605.4	605.8	603.3	601.4	600.2	597.4
35°	648.6	648.6	646.9	644.6	645.0	642.2	641.8	642.2	643.7	643.7	640.6
37.5°	699.3	700.0	694.9	694.1	692.1	688.1	686.2	687.0	690.5	692.5	688.1
40°	762.2	763.8	762.2	757.1	754.7	748.0	744.0	744.0	746.8	748.8	747.2
42.5°	824.4	827.3	824.4	820.5	818.5	813.3	811.4	812.9	816.5	818.9	816.5
45°	893.8	895.8	892.2	887.4	885.1	882.3	881.1	882.3	886.3	888.6	887.8
47.5°	961.9	964.6	960.3	958.3	958.3	955.5	958.7	961.9	965.5	971.0	968.6
50°	1028.5	1032.1	1029.3	1029.7	1032.9	1038.0	1043.9	1050.3	1056.6	1062.5	1063.4
52.5°	1087.9	1093.4	1093.8	1101.0	1110.8	1118.8	1135.5	1149.3	1164.3	1169.5	1167.1
55°	1150.5	1158.0	1167.9	1179.1	1194.9	1211.1	1239.2	1264.2	1284.0	1296.3	1294.3
57.5°	1240.0	1247.6	1257.8	1276.0	1299.9	1322.1	1360.4	1399.3	1429.4	1448.0	1438.9
60°	1356.1	1364.0	1377.5	1396.9	1427.8	1457.9	1510.6	1566.4	1613.2	1634.6	1618.0
62.5°	1509.8	1517.3	1526.0	1551.8	1586.3	1625.1	1691.2	1763.0	1822.4	1842.9	1819.6
65°	1728.9	1738.0	1740.8	1761.8	1795.5	1831.5	1902.8	1983.6	2051.4	2085.1	2038.3
67.5°	1975.7	1979.3	1990.4	2014.9	2049.4	2081.9	2138.2	2214.6	2279.5	2298.2	2248.2
70°	2120.3	2127.4	2146.9	2180.9	2222.2	2273.2	2334.7	2417.0	2490.8	2499.5	2436.1
72.5°	1989.5	2004.3	2038.7	2091.8	2178.2	2268.9	2374.7	2496.3	2602.1	2614.4	2512.6
75°	1595.8	1612.4	1653.6	1711.9	1814.1	1948.8	2101.7	2284.4	2442.8	2463.0	2328.3
77.5°	850.6	871.1	931.0	1009.4	1155.2	1333.5	1517.8	1726.1	1860.8	1906.4	1809.3
80°	214.3	225.5	254.3	300.3	399.0	542.8	701.6	925.9	1093.0	1163.9	1093.0
82.5°	83.2	91.6	99.4	105.0	114.5	134.3	185.4	302.3	407.2	501.6	434.2
85°	32.1	34.1	49.1	55.9	55.9	61.4	70.5	83.2	103.0	112.5	94.3
87.5°	12.7	13.9	17.1	26.2	26.9	23.7	25.4	28.5	21.8	18.2	20.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P198662

CATALOG NUMBER: XNV-AF-01-LED-U-5WQ

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6
2.5°	455.6	455.2	454.4	454.8	454.4	454.4	454.4	454.4
5°	455.2	455.2	454.4	454.4	454.4	454.8	454.4	454.4
7.5°	454.8	454.4	453.6	453.3	453.3	452.9	452.9	452.9
10°	454.0	453.3	452.5	452.0	452.0	451.2	451.2	451.2
12.5°	456.0	454.8	454.0	453.6	453.6	453.6	454.0	454.0
15°	461.6	459.2	458.0	457.6	458.0	458.8	459.2	459.6
17.5°	467.5	465.1	463.1	462.4	462.7	463.9	465.1	465.9
20°	475.1	473.0	470.7	469.8	469.8	471.5	472.2	473.4
22.5°	485.7	484.2	482.1	481.0	480.2	482.1	483.3	484.2
25°	502.8	501.1	499.6	498.4	498.0	500.0	500.7	501.1
27.5°	525.3	523.8	522.9	522.5	521.4	522.1	523.3	522.9
30°	554.6	555.9	554.6	554.6	552.7	553.4	552.7	551.9
32.5°	593.8	592.7	589.1	586.8	584.0	584.0	582.8	581.5
35°	633.1	629.1	627.2	628.3	627.2	627.9	625.9	624.0
37.5°	679.4	677.1	676.7	680.3	679.4	680.3	680.3	677.5
40°	740.8	739.3	742.0	748.0	750.3	749.9	750.7	747.2
42.5°	811.4	808.5	809.8	814.9	817.7	818.5	818.1	814.9
45°	881.9	882.7	882.7	888.2	891.0	892.6	889.8	888.6
47.5°	961.5	962.7	959.9	963.5	964.3	967.1	964.6	962.7
50°	1053.4	1049.0	1042.7	1043.9	1043.9	1043.1	1040.3	1038.0
52.5°	1156.0	1146.1	1134.2	1130.3	1126.0	1121.6	1116.0	1111.6
55°	1272.9	1255.9	1234.5	1224.6	1216.3	1206.4	1193.7	1189.3
57.5°	1408.4	1379.0	1350.6	1332.7	1311.3	1298.2	1282.1	1281.2
60°	1569.2	1529.6	1479.3	1452.8	1431.4	1416.0	1403.7	1398.9
62.5°	1755.1	1686.9	1632.6	1604.1	1579.1	1569.6	1554.2	1556.2
65°	1945.7	1876.3	1823.6	1800.6	1777.3	1770.9	1756.6	1761.8
67.5°	2152.0	2095.0	2037.1	2015.7	1994.3	1988.0	1973.4	1977.7
70°	2337.0	2264.5	2198.7	2156.8	2120.3	2091.0	2072.4	2064.8
72.5°	2373.9	2248.2	2144.9	2039.9	1979.3	1926.2	1904.4	1896.0
75°	2133.0	1938.1	1790.7	1667.5	1599.4	1522.0	1513.8	1502.3
77.5°	1659.1	1437.3	1259.0	1100.6	1009.0	914.7	882.3	857.7
80°	989.6	760.7	589.5	413.2	337.2	271.4	255.1	238.1
82.5°	354.1	227.0	152.9	119.3	106.6	98.2	92.0	83.6
85°	85.6	72.1	68.1	61.8	61.0	51.9	36.8	32.8
87.5°	27.3	25.0	25.4	24.1	25.4	19.0	15.4	13.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)