

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: P198504

Luminaire Tested: **XNV-AF-01-LED-U-5WQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198504
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-7030-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6110 lumens
Efficiency: N/A
Efficacy: 92.6 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

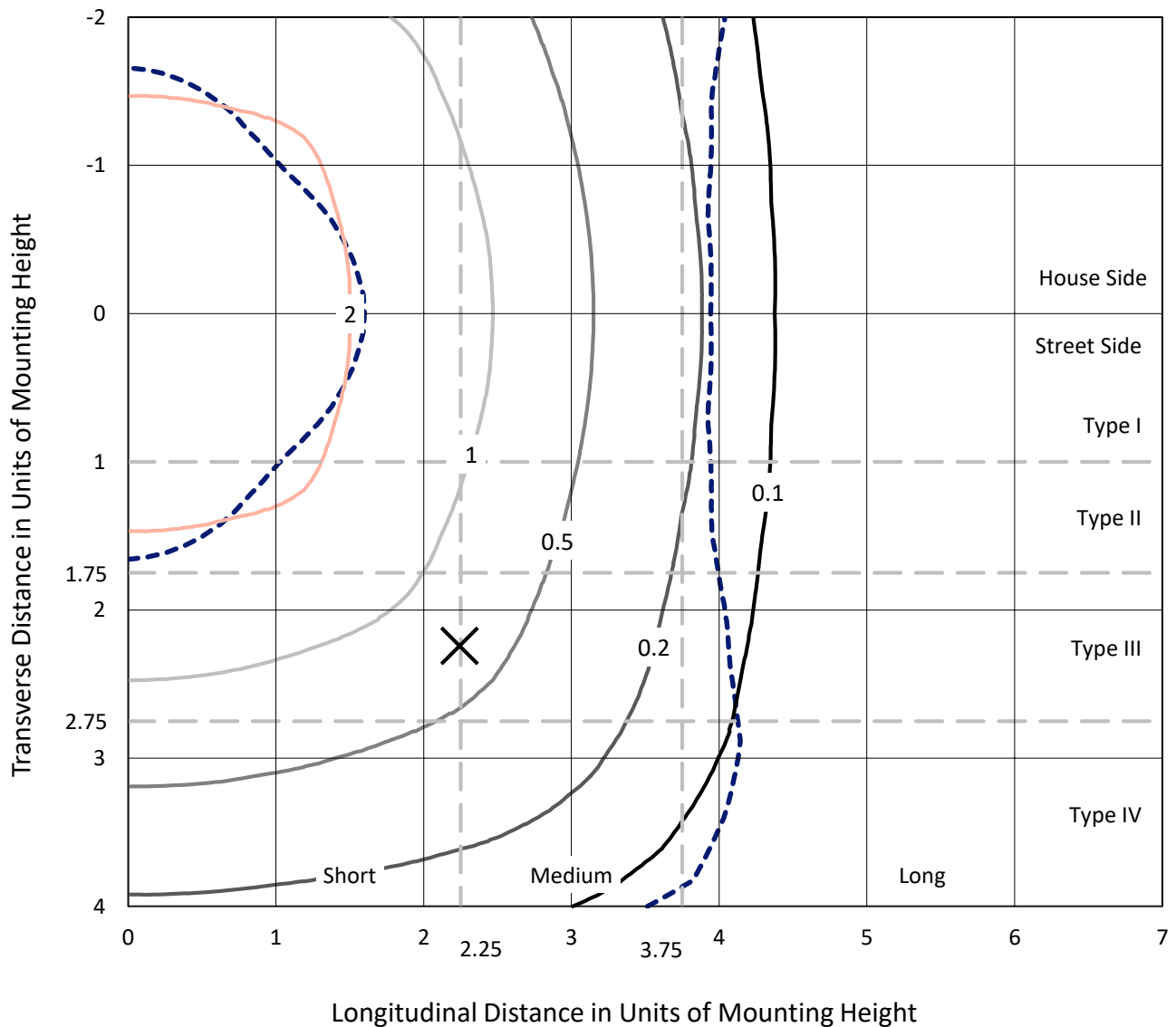
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

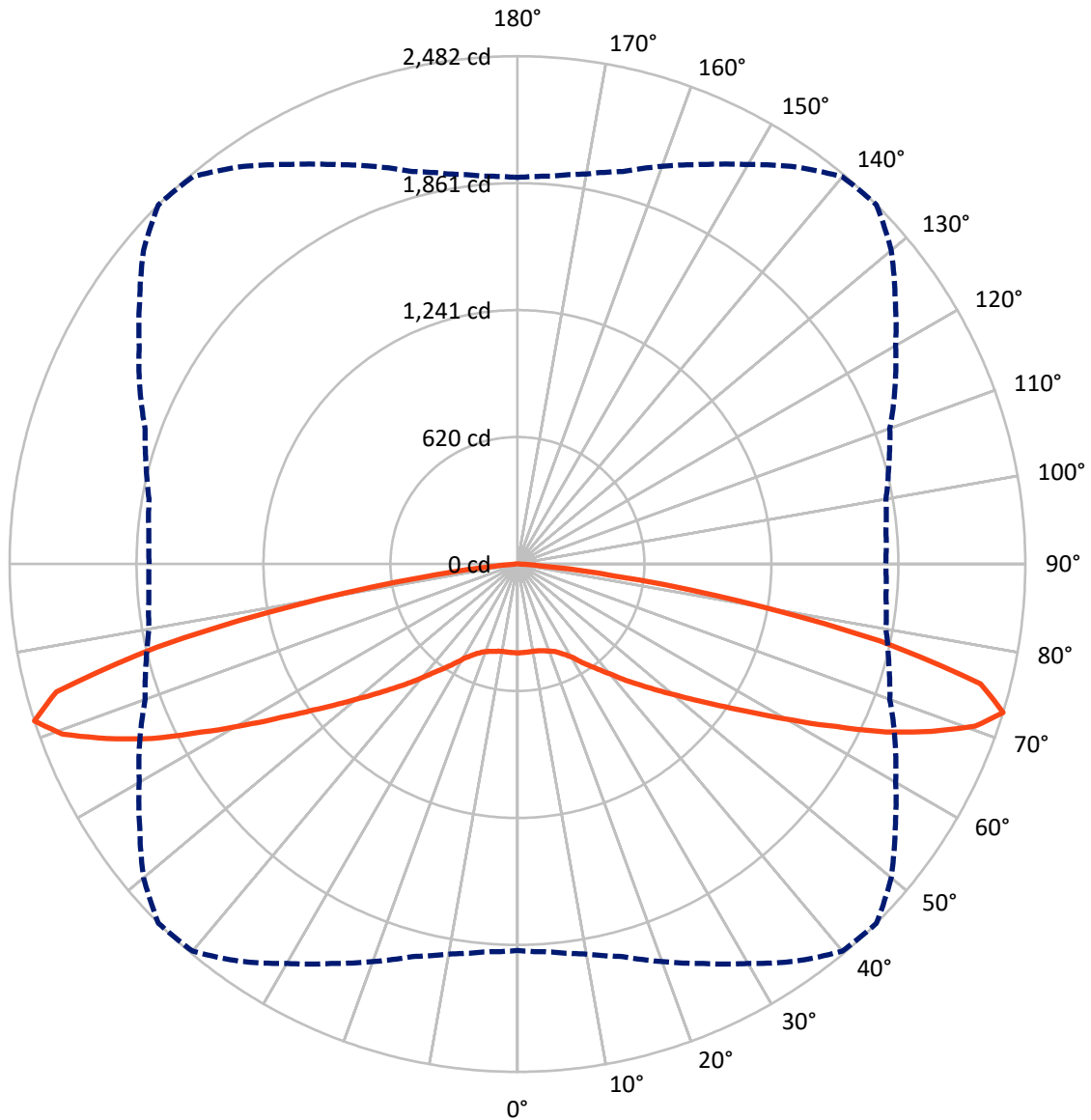
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.3 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	3055.0	0.0	3055.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3055.0	0.0	3055.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6110.0	0.0	6110.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.5	0.7
10°-20°	125.5	2.1
20°-30°	226.5	3.7
30°-40°	386.4	6.3
40°-50°	657.8	10.8
50°-60°	1058.7	17.3
60°-70°	1760.6	28.8
70°-80°	1703.2	27.9
80°-90°	149.9	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°	6110.0	100.0
0°-180°	6110.0	100.0



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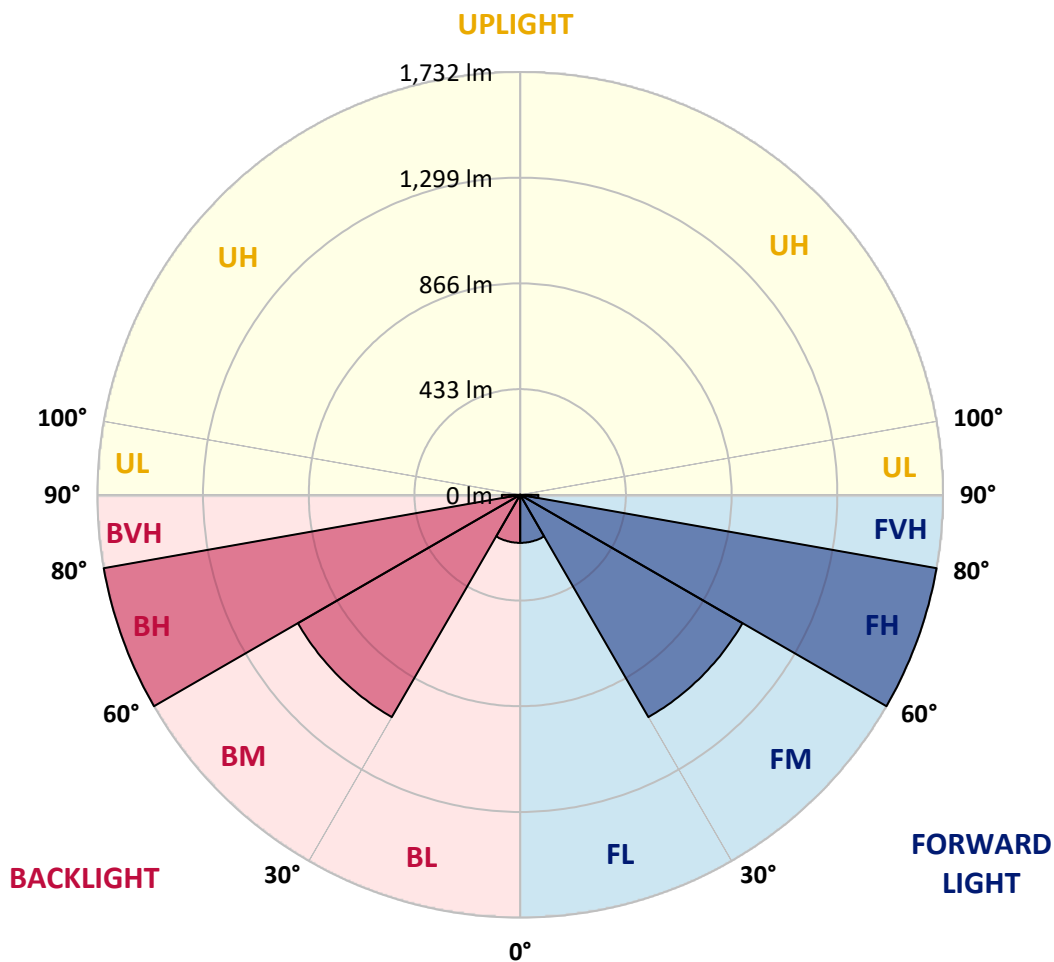
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	196.7	3.2			
FM (30°-60°)	1051.4	17.2			
FH (60°-80°)	1731.9	28.3			G1/1800
FVH (80°-90°)	75.0	1.2			G1/100
BL (0°-30°)	196.7	3.2	B1/500		
BM (30°-60°)	1051.4	17.2	B2/2500		
BH (60°-80°)	1731.9	28.3	B3/2500		G1/1800
BVH (80°-90°)	75.0	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	434.4	434.4	434.4	434.4	434.4	434.4	434.4	434.4	434.4	434.4	434.4
2.5°	437.8	437.8	438.1	437.8	437.0	436.6	435.5	434.8	434.0	433.6	432.9
5°	438.1	438.1	438.5	438.1	437.4	436.6	435.9	434.8	434.0	433.2	432.9
7.5°	439.6	440.0	440.4	440.0	438.5	437.8	436.6	435.5	434.0	433.2	432.5
10°	442.6	442.6	442.6	442.3	441.1	439.6	438.1	437.0	435.1	433.2	432.1
12.5°	444.9	445.3	445.3	444.5	443.0	441.1	439.6	438.5	437.0	435.5	434.4
15°	448.3	448.3	447.9	446.4	444.2	442.6	441.9	441.5	441.1	440.4	439.3
17.5°	455.1	454.7	453.6	451.3	448.7	447.5	446.8	446.8	446.8	446.4	445.7
20°	464.8	464.8	463.3	459.6	457.3	456.2	455.1	455.1	455.1	453.9	452.8
22.5°	480.6	481.0	478.8	474.2	471.2	469.0	467.5	466.3	465.2	464.5	462.6
25°	502.1	501.7	499.1	493.4	491.2	488.9	485.9	484.0	482.5	481.4	479.1
27.5°	524.6	524.3	521.3	516.4	514.9	511.5	509.2	506.6	504.7	502.8	500.6
30°	553.6	551.7	549.5	545.7	544.9	542.3	539.3	535.5	532.5	529.5	526.9
32.5°	579.5	579.5	576.2	574.3	575.8	574.7	575.0	572.8	570.9	569.8	567.1
35°	615.6	615.6	614.1	611.9	612.3	609.6	609.3	609.6	611.1	611.1	608.1
37.5°	663.8	664.5	659.6	658.9	657.0	653.3	651.4	652.1	655.5	657.4	653.3
40°	723.6	725.1	723.6	718.7	716.4	710.0	706.3	706.3	708.9	710.8	709.3
42.5°	782.6	785.3	782.6	778.9	777.0	772.1	770.2	771.7	775.1	777.4	775.1
45°	848.4	850.3	846.9	842.4	840.2	837.5	836.4	837.5	841.3	843.6	842.8
47.5°	913.1	915.8	911.6	909.7	909.7	907.1	910.1	913.1	916.5	921.8	919.5
50°	976.3	979.7	977.1	977.4	980.4	985.3	991.0	997.0	1003.0	1008.7	1009.4
52.5°	1032.7	1038.0	1038.4	1045.1	1054.5	1062.1	1077.9	1091.0	1105.3	1110.2	1107.9
55°	1092.1	1099.3	1108.7	1119.2	1134.3	1149.7	1176.4	1200.1	1218.9	1230.5	1228.7
57.5°	1177.1	1184.3	1194.1	1211.4	1233.9	1255.0	1291.5	1328.3	1356.9	1374.6	1365.9
60°	1287.3	1294.9	1307.6	1326.1	1355.4	1384.0	1434.0	1487.0	1531.4	1551.7	1535.9
62.5°	1433.2	1440.4	1448.7	1473.1	1505.8	1542.7	1605.5	1673.6	1730.0	1749.5	1727.3
65°	1641.2	1649.9	1652.5	1672.4	1704.4	1738.6	1806.3	1883.0	1947.4	1979.3	1934.9
67.5°	1875.5	1878.9	1889.4	1912.8	1945.5	1976.3	2029.7	2102.3	2164.0	2181.7	2134.3
70°	2012.8	2019.6	2038.0	2070.3	2109.4	2158.0	2216.3	2294.5	2364.4	2372.7	2312.5
72.5°	1888.7	1902.6	1935.3	1985.7	2067.7	2153.8	2254.2	2369.7	2470.1	2481.8	2385.1
75°	1514.9	1530.7	1569.8	1625.1	1722.1	1849.9	1995.1	2168.5	2318.9	2338.1	2210.2
77.5°	807.4	827.0	883.8	958.3	1096.7	1265.9	1440.8	1638.6	1766.5	1809.7	1717.6
80°	203.5	214.0	241.4	285.1	378.7	515.2	666.0	878.9	1037.6	1104.9	1037.6
82.5°	79.0	86.9	94.4	99.7	108.7	127.5	176.0	287.0	386.6	476.1	412.2
85°	30.5	32.3	46.6	53.0	53.0	58.3	66.9	79.0	97.8	106.8	89.5
87.5°	12.0	13.2	16.2	24.8	25.6	22.6	24.1	27.1	20.7	17.3	19.6
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°	434.4	434.4	434.4	434.4	434.4	434.4	434.4	434.4
2.5°	432.5	432.1	431.4	431.7	431.4	431.4	431.4	431.4
5°	432.1	432.1	431.4	431.4	431.4	431.7	431.4	431.4
7.5°	431.7	431.4	430.6	430.2	430.2	429.9	429.9	429.9
10°	431.0	430.2	429.5	429.1	429.1	428.4	428.4	428.4
12.5°	432.9	431.7	431.0	430.6	430.6	430.6	431.0	431.0
15°	438.1	435.9	434.8	434.4	434.8	435.5	435.9	436.3
17.5°	443.8	441.5	439.6	438.9	439.3	440.4	441.5	442.3
20°	450.9	449.0	446.8	446.0	446.0	447.5	448.3	449.4
22.5°	461.1	459.6	457.7	456.6	455.8	457.7	458.8	459.6
25°	477.2	475.7	474.2	473.1	472.7	474.6	475.4	475.7
27.5°	498.7	497.2	496.4	496.1	494.9	495.7	496.8	496.4
30°	526.5	527.6	526.5	526.5	524.6	525.4	524.6	523.9
32.5°	563.7	562.6	559.2	557.0	554.3	554.3	553.2	552.1
35°	601.0	597.2	595.3	596.5	595.3	596.1	594.2	592.3
37.5°	645.0	642.7	642.3	645.7	645.0	645.7	645.7	643.1
40°	703.3	701.8	704.4	710.0	712.3	711.9	712.7	709.3
42.5°	770.2	767.6	768.7	773.6	776.2	777.0	776.6	773.6
45°	837.2	837.9	837.9	843.2	845.8	847.3	844.7	843.6
47.5°	912.8	913.9	911.2	914.6	915.4	918.0	915.8	913.9
50°	1000.0	995.9	989.8	991.0	991.0	990.2	987.6	985.3
52.5°	1097.4	1088.0	1076.7	1073.0	1068.8	1064.7	1059.4	1055.3
55°	1208.4	1192.2	1171.9	1162.5	1154.6	1145.2	1133.1	1129.0
57.5°	1337.0	1309.1	1282.1	1265.1	1244.8	1232.4	1217.0	1216.3
60°	1489.7	1452.1	1404.3	1379.1	1358.8	1344.1	1332.5	1327.9
62.5°	1666.0	1601.4	1549.8	1522.8	1499.1	1490.0	1475.4	1477.3
65°	1846.9	1781.1	1731.1	1709.3	1687.1	1681.1	1667.5	1672.4
67.5°	2042.9	1988.7	1933.8	1913.5	1893.2	1887.2	1873.3	1877.4
70°	2218.5	2149.7	2087.3	2047.4	2012.8	1985.0	1967.3	1960.1
72.5°	2253.5	2134.3	2036.1	1936.4	1878.9	1828.5	1807.8	1799.9
75°	2024.8	1839.8	1699.9	1582.9	1518.2	1444.9	1437.0	1426.1
77.5°	1575.0	1364.4	1195.2	1044.8	957.9	868.4	837.5	814.2
80°	939.5	722.1	559.6	392.3	320.0	257.6	242.2	226.0
82.5°	336.2	215.5	145.2	113.2	101.2	93.3	87.3	79.4
85°	81.2	68.4	64.7	58.7	57.9	49.3	35.0	31.2
87.5°	25.9	23.7	24.1	22.9	24.1	18.1	14.7	13.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)