

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: P271212

Luminaire Tested: **XNV-AF-01-LED-U-5WQ-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271212
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-7027-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 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: 5996.9 lumens
Efficiency: N/A
Efficacy: 90.9 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

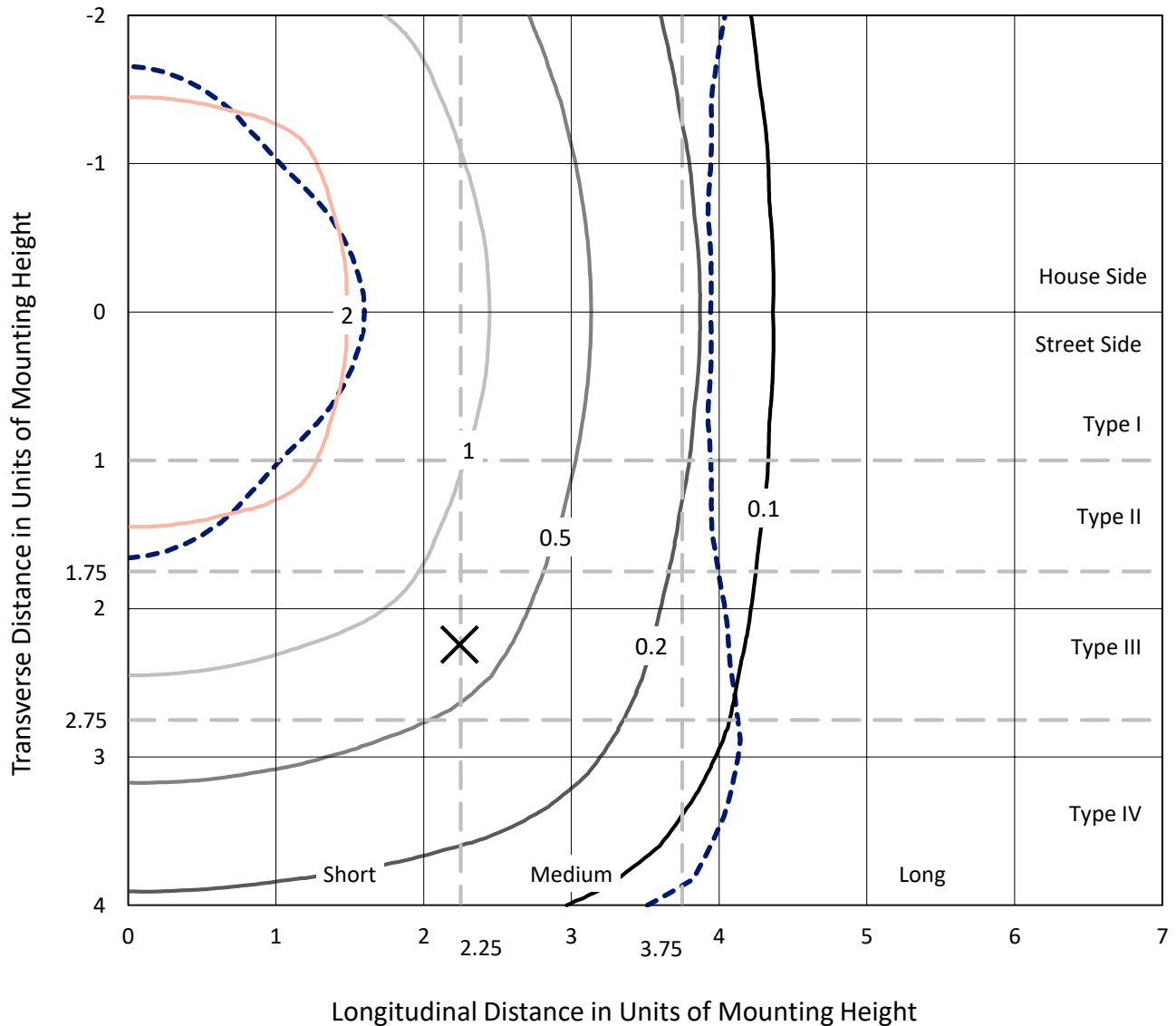
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

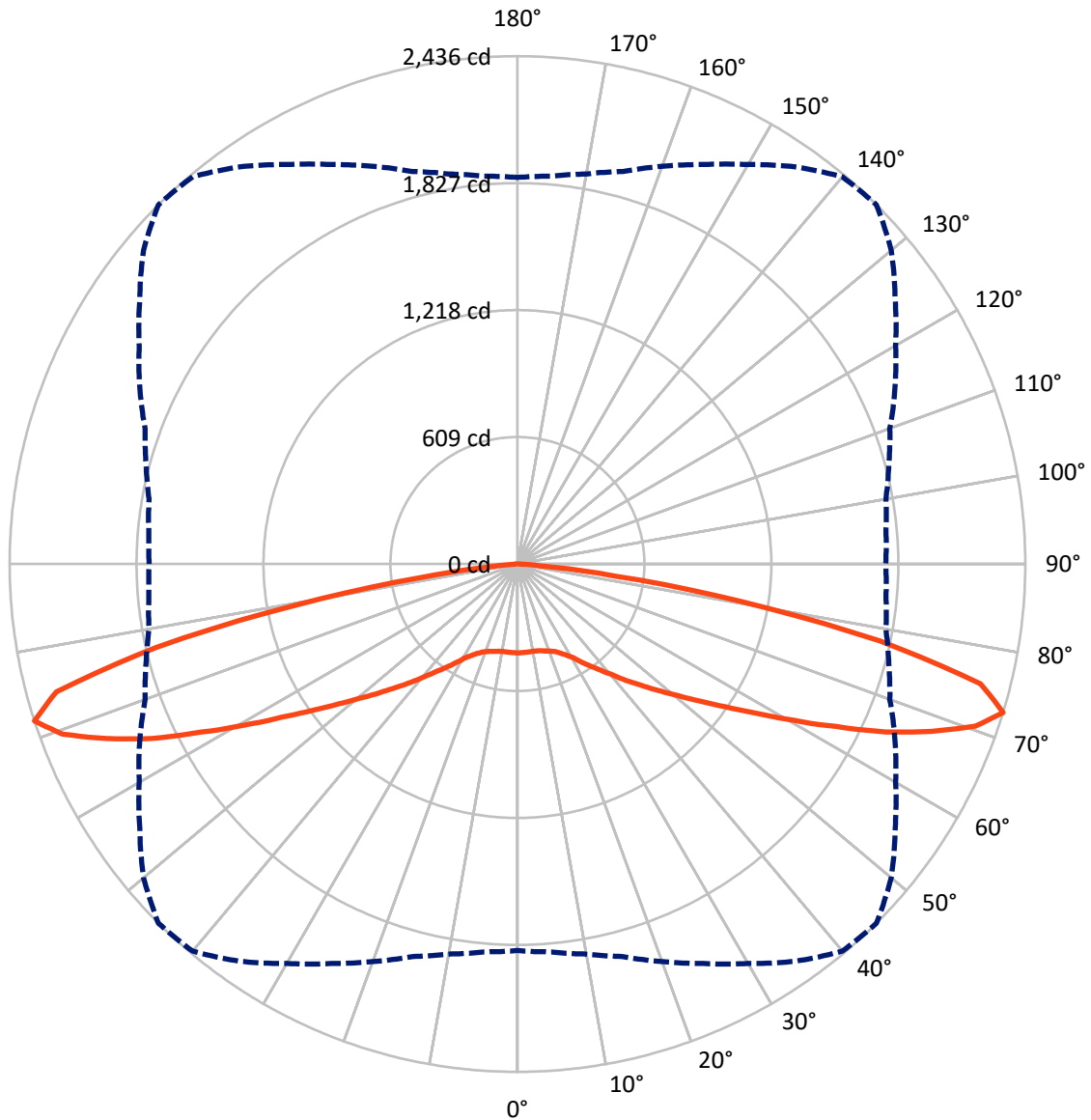


Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - Semi-Cutoff

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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	2998.4	0.0	2998.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2998.4	0.0	2998.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	5996.9	0.0	5996.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.7	0.7
10°-20°	123.2	2.1
20°-30°	222.3	3.7
30°-40°	379.2	6.3
40°-50°	645.6	10.8
50°-60°	1039.1	17.3
60°-70°	1728.0	28.8
70°-80°	1671.6	27.9
80°-90°	147.1	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°	5996.9	100.0
0°-180°	5996.9	100.0

Coefficient of Utilization



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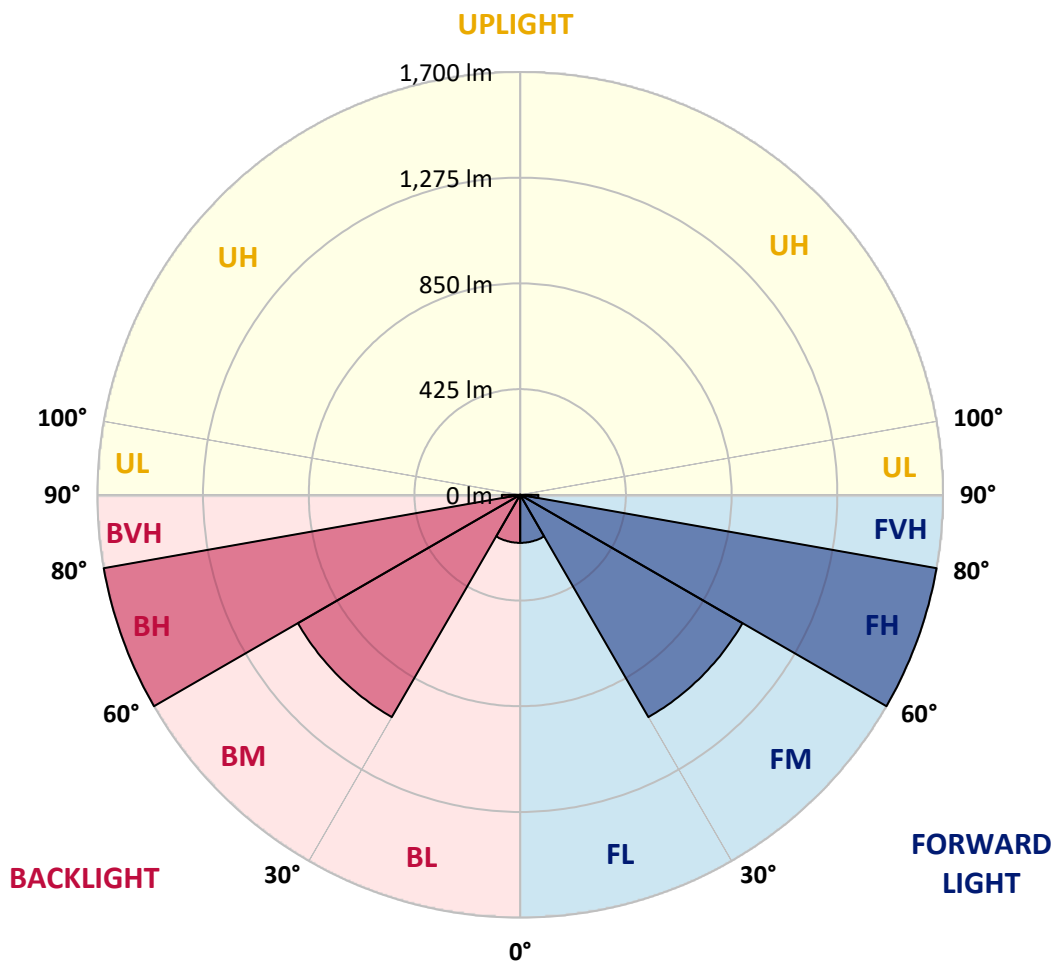
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	193.1	3.2			
FM (30°-60°)	1032.0	17.2			
FH (60°-80°)	1699.8	28.3			G1/1800
FVH (80°-90°)	73.6	1.2			G1/100
BL (0°-30°)	193.1	3.2	B1/500		
BM (30°-60°)	1032.0	17.2	B2/2500		
BH (60°-80°)	1699.8	28.3	B3/2500		G1/1800
BVH (80°-90°)	73.6	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°	426.3	426.3	426.3	426.3	426.3	426.3	426.3	426.3	426.3	426.3	426.3
2.5°	429.7	429.7	430.0	429.7	428.9	428.5	427.5	426.8	425.9	425.5	424.9
5°	430.0	430.0	430.4	430.0	429.3	428.5	427.9	426.8	425.9	425.2	424.9
7.5°	431.5	431.8	432.3	431.8	430.4	429.7	428.5	427.5	425.9	425.2	424.4
10°	434.4	434.4	434.4	434.2	433.0	431.5	430.0	428.9	427.1	425.2	424.1
12.5°	436.7	437.0	437.0	436.2	434.8	433.0	431.5	430.4	428.9	427.5	426.3
15°	440.0	440.0	439.6	438.2	435.9	434.4	433.7	433.3	433.0	432.3	431.1
17.5°	446.6	446.3	445.2	443.0	440.3	439.2	438.6	438.6	438.6	438.2	437.5
20°	456.2	456.2	454.7	451.0	448.9	447.7	446.6	446.6	446.6	445.5	444.4
22.5°	471.7	472.1	470.0	465.4	462.4	460.3	458.9	457.6	456.6	455.9	454.1
25°	492.8	492.5	489.8	484.2	482.1	479.9	476.9	475.1	473.5	472.5	470.3
27.5°	514.9	514.5	511.7	506.9	505.3	502.1	499.7	497.2	495.3	493.4	491.4
30°	543.4	541.5	539.3	535.6	534.9	532.2	529.3	525.6	522.6	519.7	517.2
32.5°	568.7	568.7	565.6	563.6	565.2	564.0	564.3	562.2	560.4	559.3	556.6
35°	604.2	604.2	602.8	600.5	601.0	598.4	598.0	598.4	599.8	599.8	596.8
37.5°	651.5	652.2	647.4	646.7	644.9	641.2	639.4	640.0	643.4	645.3	641.2
40°	710.2	711.6	710.2	705.3	703.2	696.8	693.2	693.2	695.7	697.7	696.1
42.5°	768.1	770.7	768.1	764.5	762.7	757.8	756.0	757.5	760.8	763.0	760.8
45°	832.6	834.5	831.2	826.8	824.6	821.9	821.0	821.9	825.7	828.0	827.2
47.5°	896.1	898.8	894.7	892.8	892.8	890.3	893.3	896.1	899.6	904.8	902.4
50°	958.2	961.5	959.0	959.3	962.3	967.0	972.7	978.6	984.5	990.0	990.7
52.5°	1013.6	1018.8	1019.1	1025.8	1034.9	1042.5	1057.9	1070.8	1084.9	1089.6	1087.4
55°	1071.9	1079.0	1088.1	1098.4	1113.3	1128.5	1154.6	1177.9	1196.4	1207.7	1206.0
57.5°	1155.3	1162.3	1172.0	1188.9	1211.0	1231.8	1267.6	1303.7	1331.7	1349.2	1340.6
60°	1263.5	1270.9	1283.4	1301.6	1330.3	1358.3	1407.5	1459.4	1503.0	1522.9	1507.4
62.5°	1406.7	1413.8	1421.8	1445.8	1477.9	1514.2	1575.7	1642.6	1697.9	1717.1	1695.3
65°	1610.8	1619.4	1621.9	1641.5	1672.9	1706.4	1772.8	1848.2	1911.4	1942.7	1899.0
67.5°	1840.7	1844.1	1854.5	1877.4	1909.4	1939.7	1992.1	2063.3	2124.0	2141.3	2094.8
70°	1975.6	1982.2	2000.3	2032.0	2070.4	2118.1	2175.2	2252.1	2320.6	2328.8	2269.7
72.5°	1853.7	1867.3	1899.5	1949.0	2029.5	2113.9	2212.4	2325.8	2424.3	2435.8	2341.0
75°	1486.9	1502.3	1540.8	1595.0	1690.3	1815.7	1958.1	2128.4	2275.9	2294.8	2169.2
77.5°	792.5	811.7	867.5	940.5	1076.3	1242.4	1414.1	1608.2	1733.8	1776.2	1685.8
80°	199.8	210.1	237.0	279.8	371.7	505.7	653.6	862.6	1018.4	1084.4	1018.4
82.5°	77.6	85.2	92.6	97.8	106.7	125.1	172.7	281.7	379.4	467.3	404.5
85°	30.0	31.7	45.8	52.0	52.0	57.2	65.7	77.6	95.9	104.8	87.9
87.5°	11.8	12.9	15.9	24.3	25.2	22.2	23.6	26.6	20.3	17.0	19.3
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°	426.3	426.3	426.3	426.3	426.3	426.3	426.3	426.3
2.5°	424.4	424.1	423.5	423.7	423.5	423.5	423.5	423.5
5°	424.1	424.1	423.5	423.5	423.5	423.7	423.5	423.5
7.5°	423.7	423.5	422.7	422.3	422.3	421.9	421.9	421.9
10°	423.0	422.3	421.6	421.1	421.1	420.4	420.4	420.4
12.5°	424.9	423.7	423.0	422.7	422.7	422.7	423.0	423.0
15°	430.0	427.9	426.8	426.3	426.8	427.5	427.9	428.2
17.5°	435.6	433.3	431.5	430.7	431.1	432.3	433.3	434.2
20°	442.5	440.7	438.6	437.7	437.7	439.2	440.0	441.1
22.5°	452.6	451.0	449.2	448.2	447.4	449.2	450.3	451.0
25°	468.3	466.8	465.4	464.3	464.0	465.9	466.6	466.8
27.5°	489.4	488.0	487.2	486.9	485.8	486.5	487.6	487.2
30°	516.7	517.9	516.7	516.7	514.9	515.6	514.9	514.2
32.5°	553.3	552.2	548.9	546.7	544.1	544.1	542.9	541.9
35°	589.8	586.1	584.3	585.4	584.3	585.1	583.2	581.4
37.5°	633.0	630.8	630.4	633.8	633.0	633.8	633.8	631.1
40°	690.3	688.8	691.3	696.8	699.2	698.7	699.5	696.1
42.5°	756.0	753.4	754.4	759.2	761.9	762.7	762.2	759.2
45°	821.7	822.4	822.4	827.6	830.2	831.7	829.0	828.0
47.5°	895.9	897.0	894.4	897.6	898.5	901.0	898.8	897.0
50°	981.5	977.4	971.4	972.7	972.7	971.8	969.4	967.0
52.5°	1077.1	1067.8	1056.8	1053.2	1049.0	1045.0	1039.8	1035.7
55°	1186.0	1170.1	1150.2	1140.9	1133.2	1124.0	1112.1	1108.1
57.5°	1312.2	1284.8	1258.3	1241.6	1221.8	1209.6	1194.4	1193.8
60°	1462.1	1425.3	1378.3	1353.6	1333.7	1319.3	1307.8	1303.4
62.5°	1635.2	1571.8	1521.1	1494.6	1471.3	1462.4	1448.1	1450.0
65°	1812.7	1748.1	1699.1	1677.7	1655.8	1649.9	1636.6	1641.5
67.5°	2005.0	1951.8	1897.9	1878.0	1858.1	1852.2	1838.7	1842.7
70°	2177.4	2109.8	2048.7	2009.5	1975.6	1948.2	1930.8	1923.8
72.5°	2211.7	2094.8	1998.4	1900.5	1844.1	1794.6	1774.3	1766.5
75°	1987.3	1805.8	1668.4	1553.6	1490.1	1418.2	1410.3	1399.6
77.5°	1545.9	1339.2	1173.0	1025.4	940.2	852.3	821.9	799.1
80°	922.1	708.8	549.3	385.1	314.0	252.9	237.7	221.8
82.5°	329.9	211.6	142.6	111.1	99.4	91.5	85.7	78.0
85°	79.7	67.2	63.5	57.6	56.9	48.4	34.3	30.6
87.5°	25.4	23.3	23.6	22.5	23.6	17.7	14.5	12.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)