

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: P198802

Luminaire Tested: **XNV-AF-01-LED-U-5MQ-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24129)
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-5MQ-7050-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4244 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - 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

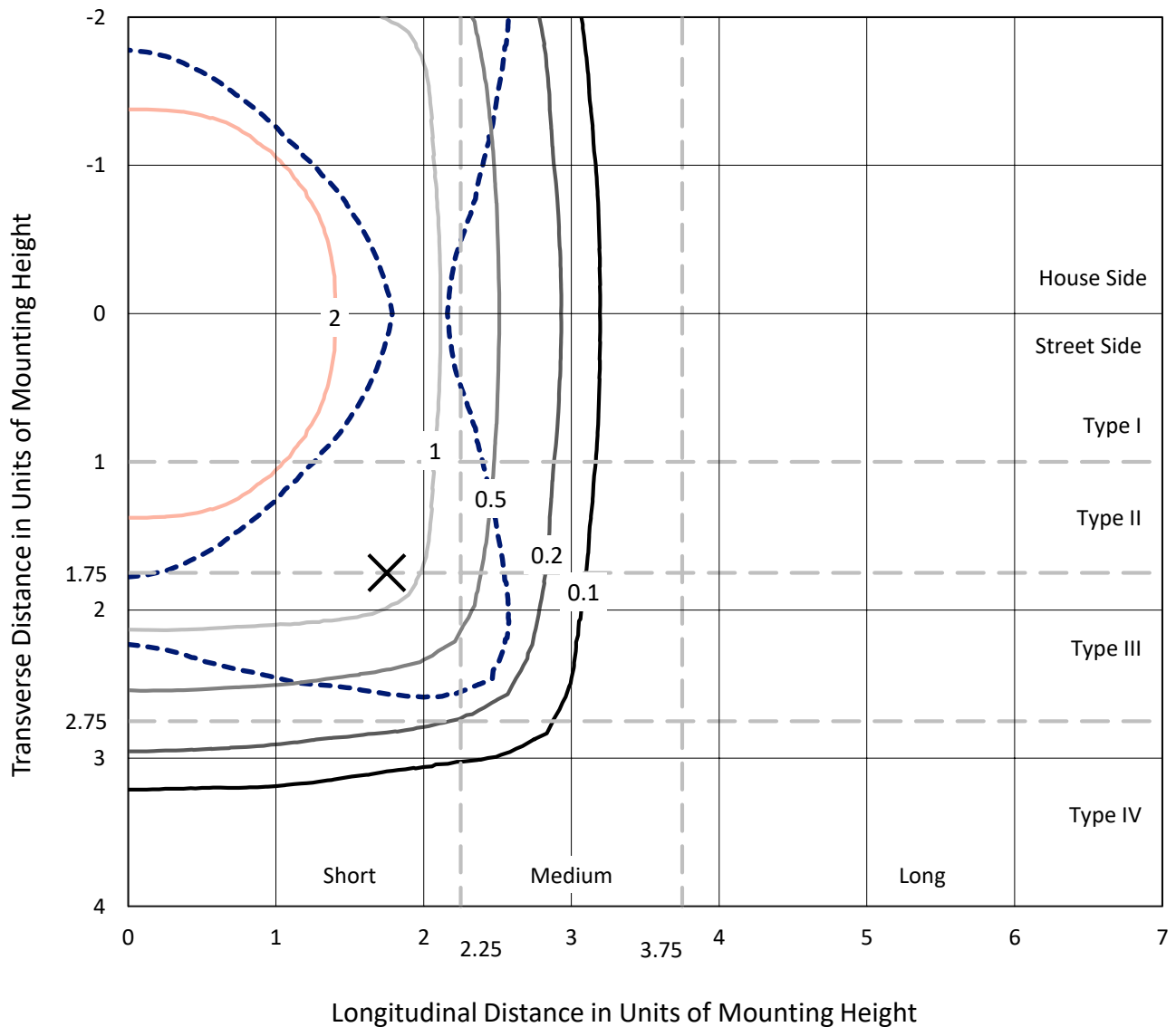


REPORT NUMBER: P198802

CATALOG NUMBER: XNV-AF-01-LED-U-5MQ-7050-600

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

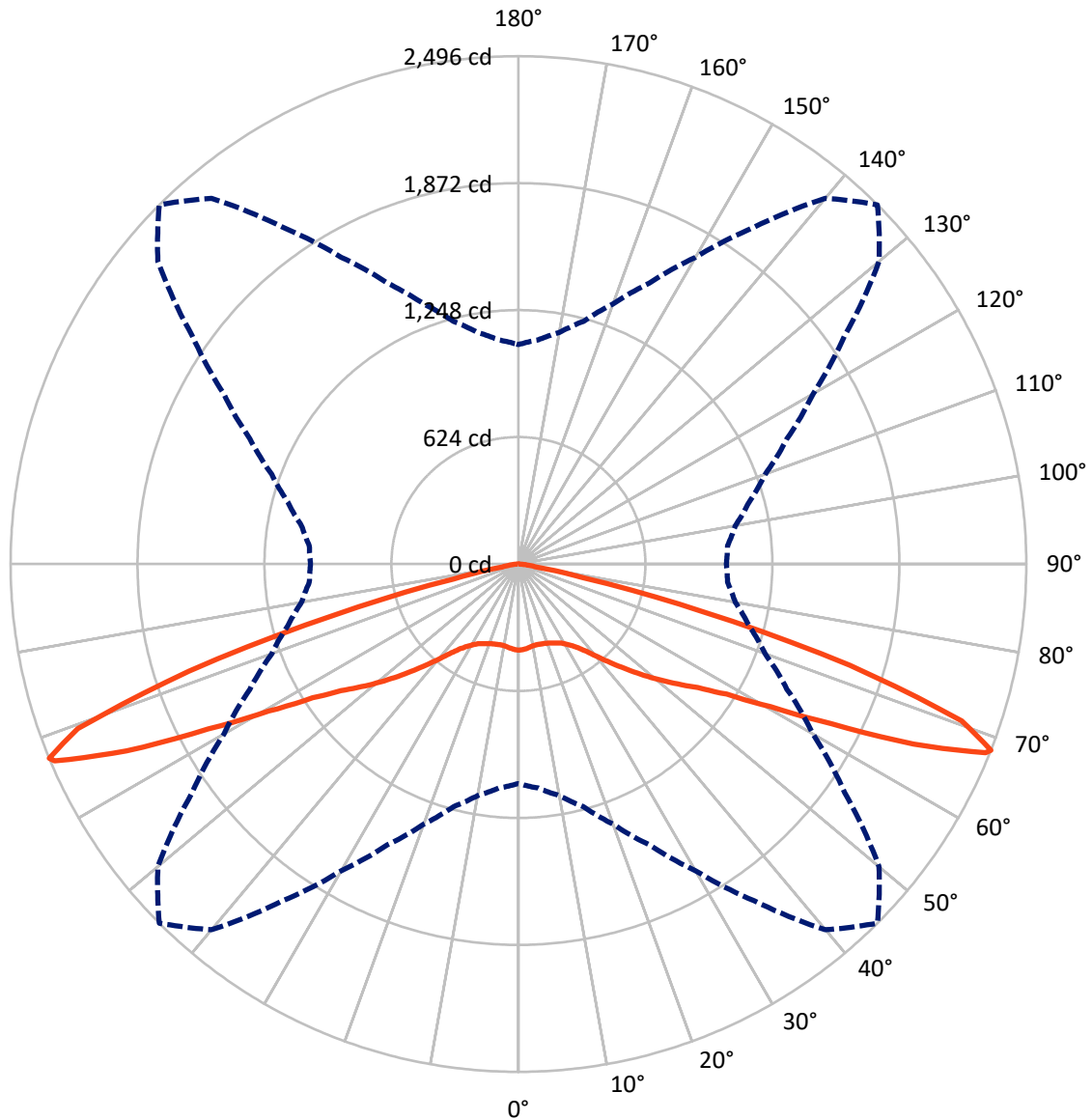


Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P198802

CATALOG NUMBER: XNV-AF-01-LED-U-5MQ-7050-600

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P198802

CATALOG NUMBER: XNV-AF-01-LED-U-5MQ-7050-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2122.0	0.0	2122.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2122.0	0.0	2122.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4244.0	0.0	4244.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.6	0.9
10°-20°	114.9	2.7
20°-30°	195.3	4.6
30°-40°	319.6	7.5
40°-50°	571.2	13.5
50°-60°	964.7	22.7
60°-70°	1495.9	35.2
70°-80°	514.3	12.1
80°-90°	28.3	0.7
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°	4244.0	100.0
0°-180°	4244.0	100.0



REPORT NUMBER: P198802

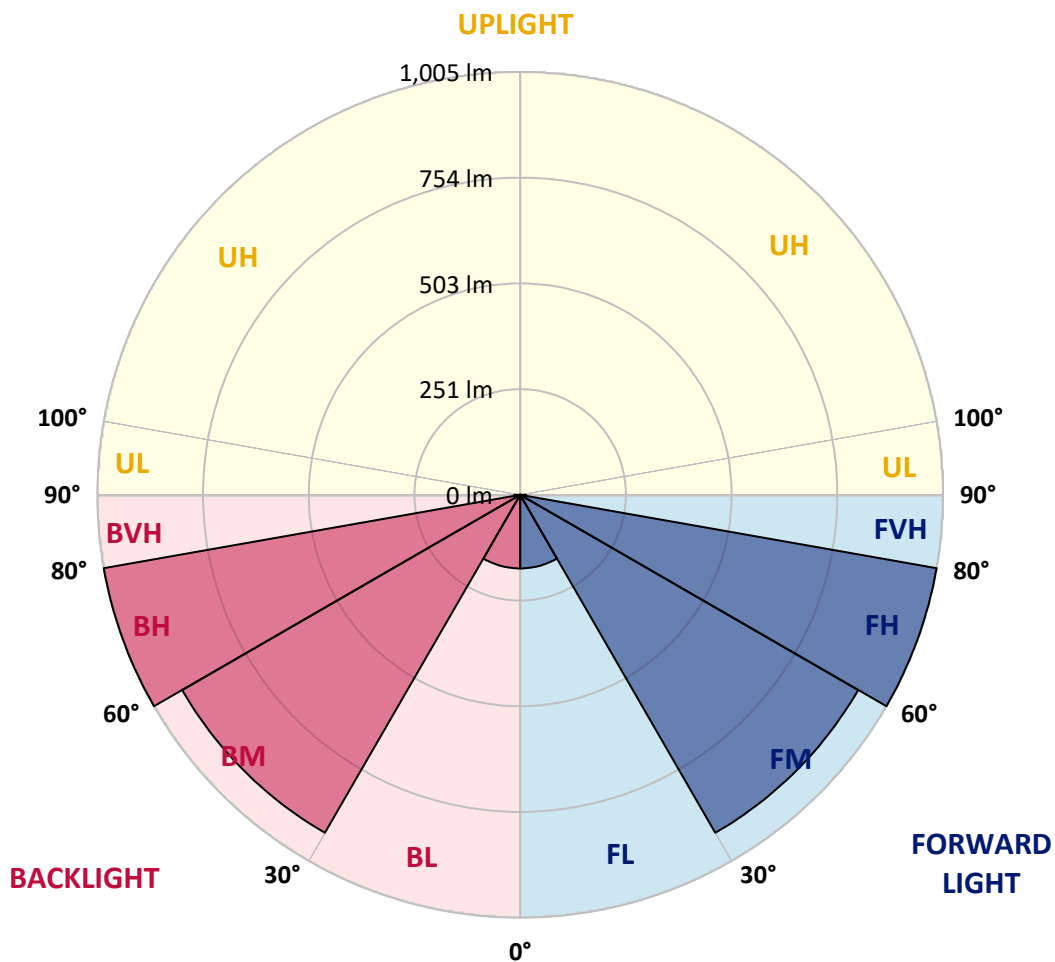
CATALOG NUMBER: XNV-AF-01-LED-U-5MQ-7050-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	174.9	4.1			
FM	(30°-60°)	927.8	21.9			
FH	(60°-80°)	1005.1	23.7			G1/1800
FVH	(80°-90°)	14.1	0.3			G1/100
BL	(0°-30°)	174.9	4.1	B1/500		
BM	(30°-60°)	927.8	21.9	B1/1000		
BH	(60°-80°)	1005.1	23.7	B3/2500		G1/1800
BVH	(80°-90°)	14.1	0.3			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





REPORT NUMBER: P198802

CATALOG NUMBER: XNV-AF-01-LED-U-5MQ-7050-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	423.4	423.4	423.4	423.4	423.4	423.4	423.4	423.4	423.4	423.4	423.4
2.5°	425.2	425.2	425.7	425.4	424.7	423.9	423.1	422.3	421.8	421.3	420.8
5°	420.8	420.8	421.5	421.0	420.5	419.7	419.2	418.4	417.9	417.4	417.6
7.5°	415.0	415.6	416.1	415.8	414.8	414.5	413.7	413.5	413.0	412.2	412.4
10°	410.1	410.4	410.9	410.6	410.4	409.6	409.3	409.1	408.8	407.8	407.5
12.5°	405.2	405.7	406.2	406.5	406.2	406.5	406.7	407.0	406.7	406.2	406.2
15°	401.3	401.8	402.6	403.3	403.6	405.2	406.2	407.2	408.0	408.3	407.5
17.5°	399.2	400.0	401.0	402.6	403.9	405.7	407.5	409.1	410.4	410.6	409.8
20°	398.9	399.7	401.3	403.1	405.4	407.8	410.6	413.0	414.3	415.0	414.3
22.5°	400.7	401.8	403.9	406.2	409.1	412.2	415.8	418.4	421.0	422.1	421.3
25°	405.9	407.0	409.3	412.2	415.3	419.2	422.8	426.2	428.8	430.1	429.1
27.5°	416.9	417.1	419.7	422.8	426.5	429.8	434.5	436.1	438.2	439.5	438.2
30°	432.2	432.7	435.0	440.0	443.4	447.8	450.4	451.9	454.3	455.6	454.0
32.5°	455.6	456.1	458.2	462.9	466.0	469.4	472.5	473.5	475.8	477.4	475.6
35°	488.6	489.6	491.4	494.6	497.2	499.8	502.1	501.3	502.9	505.0	503.1
37.5°	533.8	533.5	534.1	536.4	539.0	540.6	544.2	542.4	543.9	545.8	544.7
40°	586.6	586.6	586.3	590.5	591.5	593.1	597.0	594.6	596.7	598.8	597.0
42.5°	646.6	647.6	648.9	652.3	655.2	655.7	657.5	656.5	659.1	660.9	659.1
45°	715.7	717.3	718.8	726.6	727.9	729.0	730.3	726.9	729.8	731.3	730.8
47.5°	787.4	790.3	793.7	801.7	806.9	809.3	810.3	806.4	806.7	809.0	809.3
50°	868.5	871.7	875.0	884.1	889.1	893.2	894.5	890.1	890.6	892.4	893.0
52.5°	943.4	947.0	954.3	966.5	973.5	980.8	981.3	975.9	978.2	979.5	978.5
55°	1013.8	1018.5	1028.1	1044.5	1057.2	1071.5	1078.0	1072.0	1072.0	1071.0	1070.5
57.5°	1095.9	1101.1	1111.0	1130.0	1147.6	1168.2	1185.9	1191.8	1202.7	1206.4	1200.7
60°	1219.6	1225.1	1235.2	1260.2	1282.5	1312.4	1341.5	1365.2	1403.6	1424.4	1405.7
62.5°	1332.7	1341.0	1364.9	1408.6	1456.9	1512.3	1576.5	1622.2	1692.1	1726.9	1679.9
65°	1307.0	1323.9	1370.6	1439.2	1539.0	1659.1	1789.8	1915.3	2059.8	2133.9	2038.3
67.5°	1141.7	1156.0	1206.4	1286.2	1410.7	1576.2	1779.4	2039.3	2337.4	2476.2	2307.0
68°	1078.5	1105.3	1155.4	1234.7	1360.2	1522.9	1739.9	2020.6	2346.0	2495.9	2313.2
70°	827.0	836.6	884.6	955.9	1091.3	1250.8	1469.9	1789.8	2157.6	2311.9	2124.0
72.5°	392.9	398.7	429.8	500.0	586.0	716.0	909.3	1211.1	1542.4	1703.0	1515.6
75°	144.0	145.3	152.6	169.2	201.4	250.3	343.0	530.7	785.6	936.9	788.7
77.5°	77.7	78.0	80.8	85.0	90.7	97.2	111.2	149.2	240.7	327.5	254.2
80°	48.9	48.6	51.5	54.8	58.7	61.9	63.2	67.6	76.1	89.1	81.9
82.5°	24.9	27.3	33.8	37.4	43.1	44.2	42.9	42.6	45.2	48.9	50.4
85°	13.8	12.2	17.9	23.9	26.0	26.8	27.0	25.5	24.9	24.4	25.7
87.5°	7.0	6.5	7.8	12.0	12.7	10.4	10.7	9.1	6.2	6.2	6.5
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: P198802

CATALOG NUMBER: XNV-AF-01-LED-U-5MQ-7050-600

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	423.4	423.4	423.4	423.4	423.4	423.4	423.4	423.4
2.5°	420.2	420.5	420.0	420.0	420.0	420.2	420.0	419.7
5°	416.9	417.4	417.4	417.6	417.9	417.9	417.9	417.9
7.5°	411.9	412.2	412.7	412.7	412.7	412.7	412.7	412.7
10°	407.2	406.7	406.5	405.9	405.9	405.2	405.4	405.7
12.5°	404.9	403.9	403.3	402.6	402.0	401.3	401.3	401.5
15°	405.9	404.4	402.8	402.3	401.8	401.3	400.7	401.0
17.5°	408.0	406.2	404.4	403.3	402.3	401.5	401.3	401.5
20°	412.4	409.8	407.0	405.2	403.1	402.6	401.8	402.6
22.5°	418.4	415.3	411.7	408.3	405.9	404.9	403.9	404.6
25°	425.7	422.3	418.7	414.8	412.2	411.4	410.1	410.1
27.5°	435.8	433.0	429.8	426.2	423.6	422.8	420.8	420.8
30°	451.9	449.1	446.2	443.1	440.5	439.7	437.1	437.1
32.5°	473.2	470.1	468.3	465.7	463.6	462.3	459.2	459.0
35°	501.8	499.0	498.7	496.9	494.8	495.1	492.0	491.4
37.5°	542.9	540.6	541.3	539.8	538.0	539.5	537.7	537.7
40°	595.4	594.6	595.4	594.4	594.6	594.9	593.3	593.8
42.5°	658.8	656.7	661.4	660.9	660.1	662.2	658.5	655.9
45°	731.8	731.1	735.7	736.5	735.0	736.3	729.8	729.5
47.5°	811.1	811.1	815.3	814.7	813.2	813.4	805.6	800.7
50°	893.7	893.2	897.4	896.3	894.3	894.0	885.9	881.0
52.5°	979.8	979.8	985.7	982.9	977.9	975.6	965.7	959.2
55°	1074.9	1073.6	1075.4	1066.0	1056.4	1049.4	1037.2	1032.3
57.5°	1195.2	1180.1	1167.1	1155.2	1141.7	1133.4	1119.1	1113.9
60°	1366.0	1325.7	1308.3	1284.3	1262.0	1250.8	1231.9	1221.7
62.5°	1602.4	1535.7	1488.4	1435.6	1384.7	1348.8	1320.0	1307.2
65°	1875.8	1730.3	1610.0	1496.9	1401.0	1324.9	1282.5	1269.3
67.5°	1979.8	1712.6	1505.0	1342.8	1226.4	1135.7	1085.0	1074.4
68°	1957.7	1672.1	1456.4	1290.3	1173.4	1081.9	1031.5	1021.9
70°	1726.9	1410.7	1183.0	1017.7	908.6	821.5	785.9	770.6
72.5°	1177.3	906.0	694.9	555.9	474.3	419.2	386.4	375.3
75°	541.9	366.2	244.6	182.7	155.2	141.9	131.8	129.2
77.5°	158.0	114.9	98.8	91.5	86.0	81.3	78.0	77.7
80°	75.1	70.4	68.3	63.7	58.7	54.3	51.2	51.7
82.5°	50.4	49.1	49.1	44.4	36.6	31.4	26.0	23.4
85°	26.8	27.8	29.4	27.8	24.2	17.9	11.7	12.7
87.5°	9.1	10.4	10.9	10.7	9.6	7.3	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)