

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: P199124

Luminaire Tested: **XNV-AF-01-LED-U-5MQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199124
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-8030-800
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4246 lumens
Efficiency: N/A
Efficacy: 96.5 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): 44
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



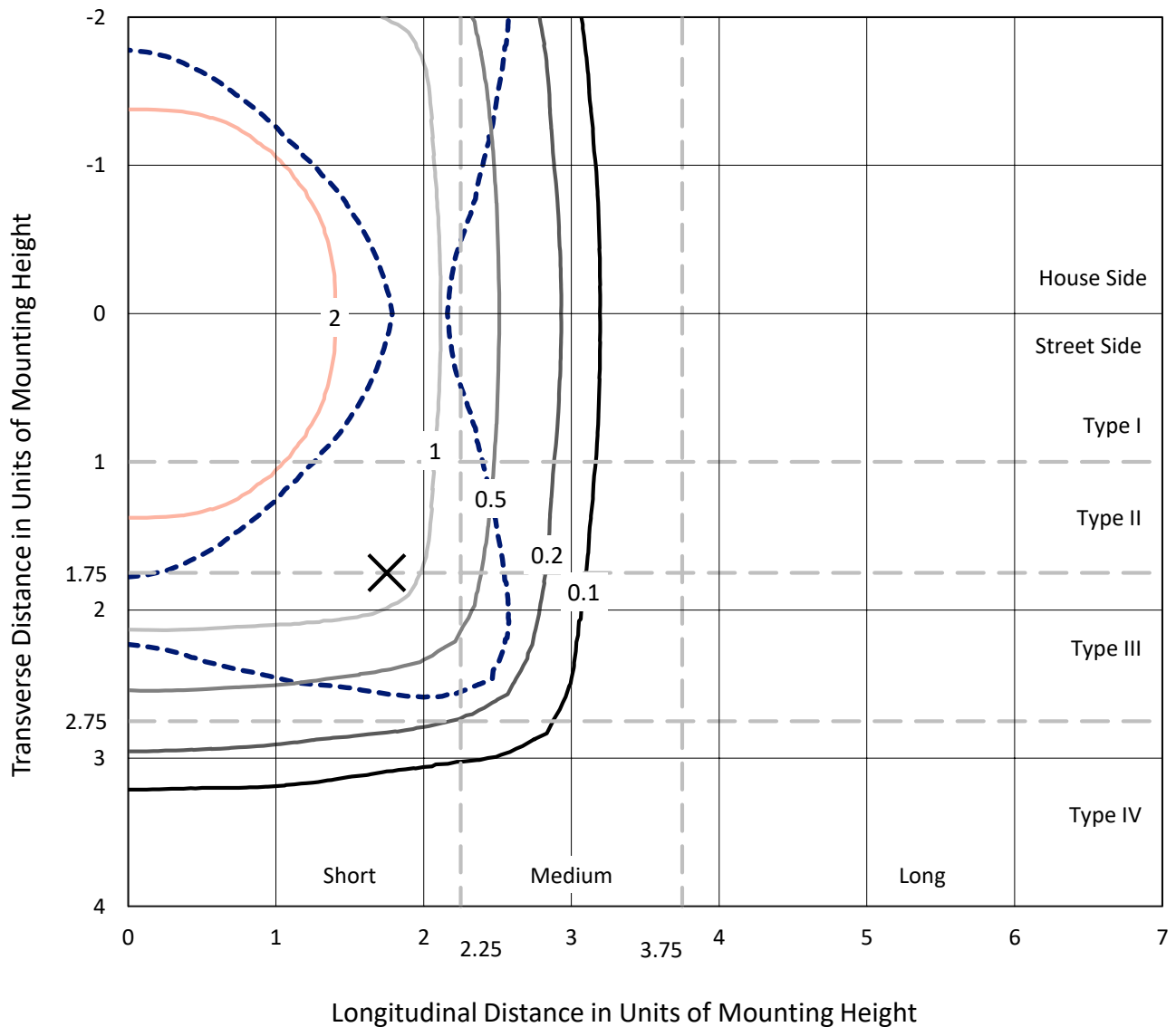


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

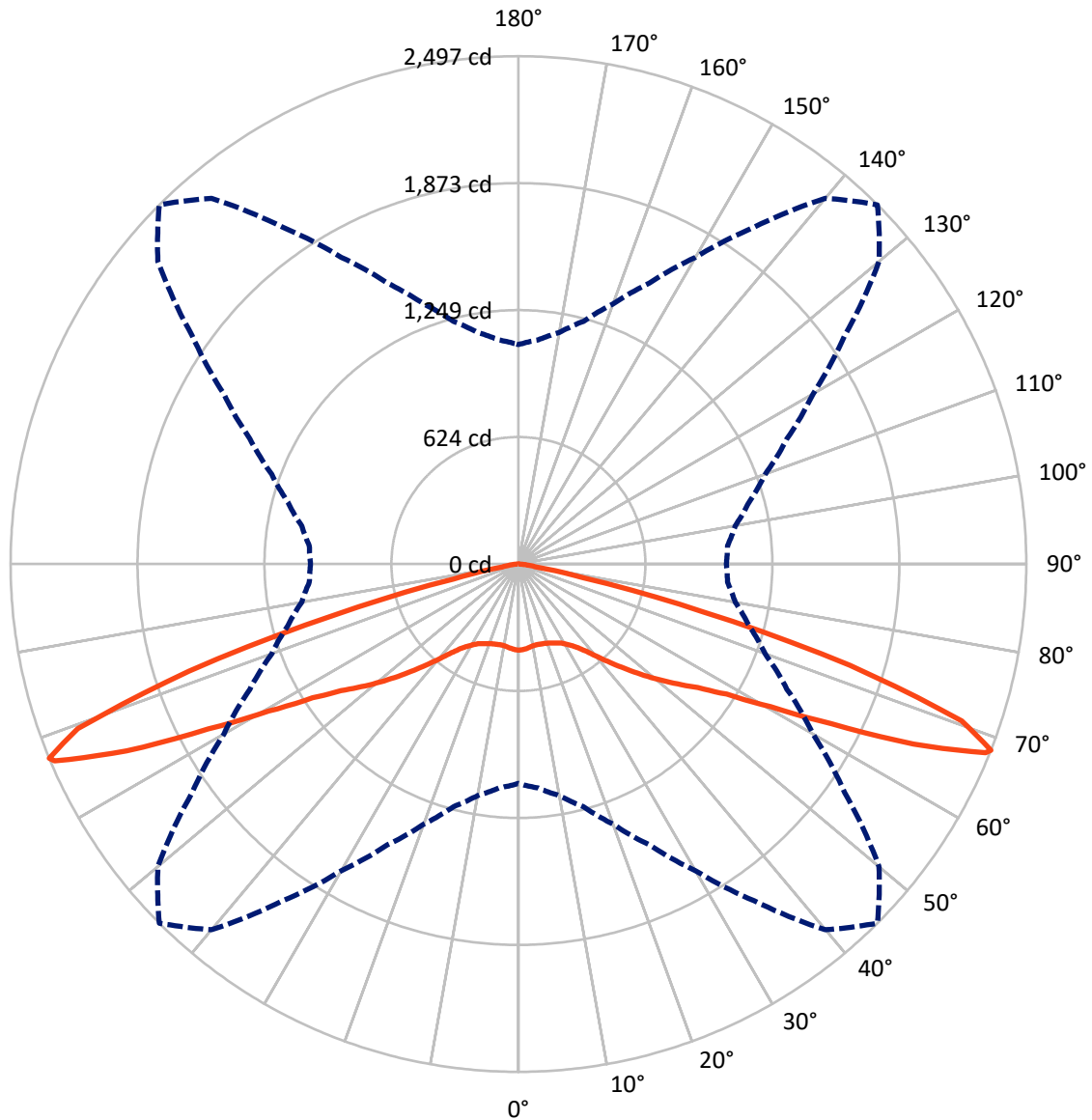


Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2123.0	0.0	2123.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2123.0	0.0	2123.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4246.0	0.0	4246.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.6	0.9
10°-20°	114.9	2.7
20°-30°	195.4	4.6
30°-40°	319.8	7.5
40°-50°	571.5	13.5
50°-60°	965.2	22.7
60°-70°	1496.7	35.2
70°-80°	514.6	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°	4246.0	100.0
0°-180°	4246.0	100.0

Coefficient of Utilization



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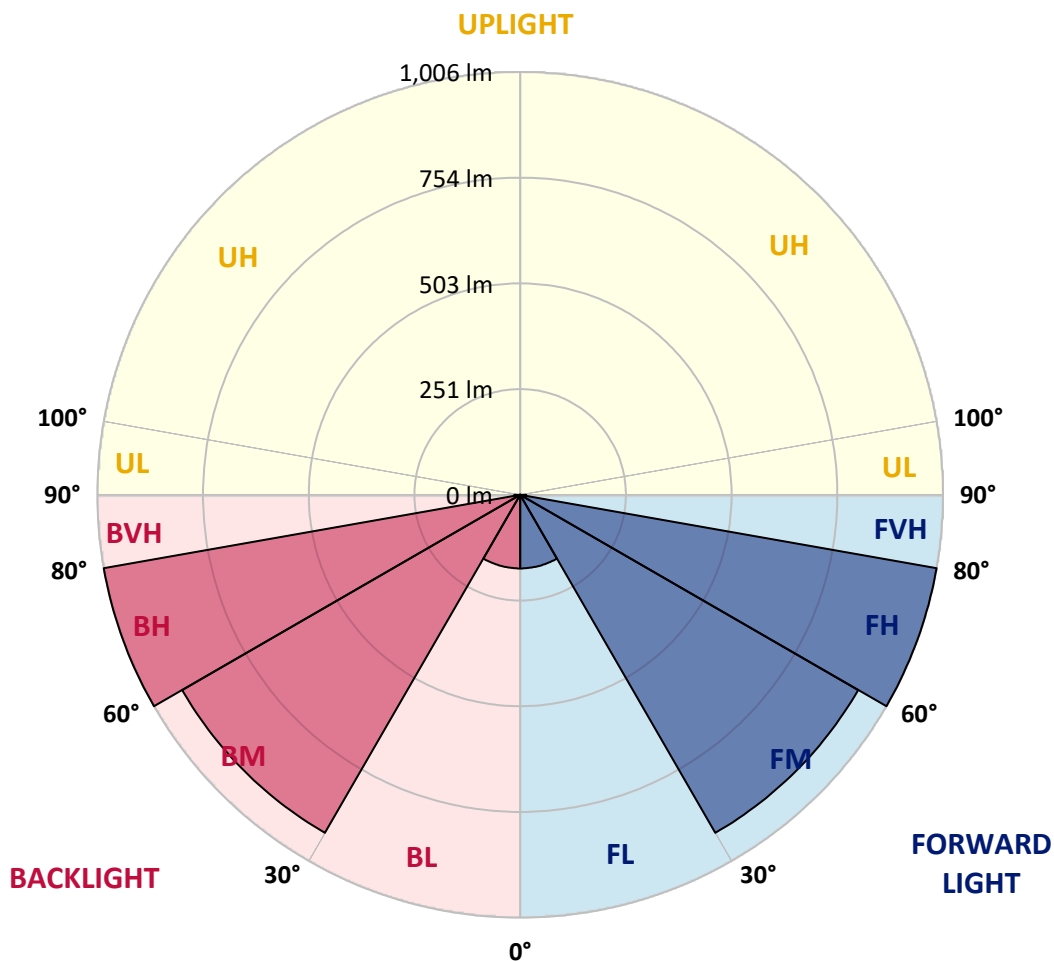
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	175.0	4.1			
FM (30°-60°)	928.2	21.9			
FH (60°-80°)	1005.6	23.7			G1/1800
FVH (80°-90°)	14.1	0.3			G1/100
BL (0°-30°)	175.0	4.1	B1/500		
BM (30°-60°)	928.2	21.9	B1/1000		
BH (60°-80°)	1005.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	423.6	423.6	423.6	423.6	423.6	423.6	423.6	423.6	423.6	423.6	423.6
2.5°	425.4	425.4	425.9	425.6	424.9	424.1	423.3	422.5	422.0	421.5	421.0
5°	421.0	421.0	421.7	421.2	420.7	419.9	419.4	418.6	418.1	417.6	417.8
7.5°	415.2	415.8	416.3	416.0	415.0	414.7	413.9	413.7	413.2	412.4	412.6
10°	410.3	410.6	411.1	410.8	410.6	409.8	409.5	409.3	409.0	408.0	407.7
12.5°	405.4	405.9	406.4	406.7	406.4	406.7	406.9	407.2	406.9	406.4	406.4
15°	401.5	402.0	402.8	403.5	403.8	405.4	406.4	407.4	408.2	408.5	407.7
17.5°	399.4	400.2	401.2	402.8	404.1	405.9	407.7	409.3	410.6	410.8	410.0
20°	399.1	399.9	401.5	403.3	405.6	408.0	410.8	413.2	414.5	415.2	414.5
22.5°	400.9	402.0	404.1	406.4	409.3	412.4	416.0	418.6	421.2	422.3	421.5
25°	406.1	407.2	409.5	412.4	415.5	419.4	423.0	426.4	429.0	430.3	429.3
27.5°	417.1	417.3	419.9	423.0	426.7	430.1	434.7	436.3	438.4	439.7	438.4
30°	432.4	432.9	435.3	440.2	443.6	448.0	450.6	452.2	454.5	455.8	454.2
32.5°	455.8	456.3	458.4	463.1	466.2	469.6	472.7	473.7	476.1	477.6	475.8
35°	488.8	489.9	491.7	494.8	497.4	500.0	502.3	501.6	503.1	505.2	503.4
37.5°	534.1	533.8	534.3	536.7	539.3	540.8	544.5	542.6	544.2	546.0	545.0
40°	586.8	586.8	586.6	590.7	591.8	593.3	597.2	594.9	597.0	599.1	597.2
42.5°	646.9	647.9	649.2	652.6	655.5	656.0	657.8	656.8	659.4	661.2	659.4
45°	716.1	717.6	719.2	727.0	728.3	729.3	730.6	727.2	730.1	731.7	731.1
47.5°	787.8	790.7	794.1	802.1	807.3	809.7	810.7	806.8	807.1	809.4	809.7
50°	868.9	872.1	875.4	884.5	889.5	893.6	894.9	890.5	891.0	892.9	893.4
52.5°	943.8	947.5	954.7	967.0	974.0	981.3	981.8	976.3	978.7	980.0	978.9
55°	1014.3	1019.0	1028.6	1045.0	1057.7	1072.0	1078.5	1072.5	1072.5	1071.5	1071.0
57.5°	1096.4	1101.6	1111.5	1130.5	1148.2	1168.7	1186.4	1192.4	1203.3	1207.0	1201.2
60°	1220.2	1225.7	1235.8	1260.8	1283.1	1313.0	1342.2	1365.8	1404.3	1425.1	1406.4
62.5°	1333.3	1341.6	1365.6	1409.2	1457.6	1513.0	1577.2	1623.0	1692.9	1727.7	1680.7
65°	1307.6	1324.5	1371.3	1439.9	1539.8	1659.9	1790.7	1916.3	2060.8	2134.9	2039.2
67.5°	1142.2	1156.5	1207.0	1286.8	1411.3	1576.9	1780.3	2040.3	2338.5	2477.3	2308.1
68°	1079.0	1105.8	1156.0	1235.3	1360.9	1523.6	1740.7	2021.6	2347.1	2497.1	2314.3
70°	827.3	837.0	885.1	956.3	1091.8	1251.4	1470.6	1790.7	2158.6	2313.0	2125.0
72.5°	393.1	398.9	430.1	500.3	586.3	716.3	909.8	1211.6	1543.1	1703.8	1516.4
75°	144.0	145.3	152.6	169.3	201.5	250.4	343.2	530.9	786.0	937.3	789.1
77.5°	77.7	78.0	80.9	85.0	90.7	97.2	111.3	149.2	240.8	327.6	254.3
80°	48.9	48.6	51.5	54.9	58.8	61.9	63.2	67.6	76.2	89.2	81.9
82.5°	25.0	27.3	33.8	37.4	43.2	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	25.0	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	423.6	423.6	423.6	423.6	423.6	423.6	423.6	423.6
2.5°	420.4	420.7	420.2	420.2	420.2	420.4	420.2	419.9
5°	417.1	417.6	417.6	417.8	418.1	418.1	418.1	418.1
7.5°	412.1	412.4	412.9	412.9	412.9	412.9	412.9	412.9
10°	407.4	406.9	406.7	406.1	406.1	405.4	405.6	405.9
12.5°	405.1	404.1	403.5	402.8	402.2	401.5	401.5	401.7
15°	406.1	404.6	403.0	402.5	402.0	401.5	400.9	401.2
17.5°	408.2	406.4	404.6	403.5	402.5	401.7	401.5	401.7
20°	412.6	410.0	407.2	405.4	403.3	402.8	402.0	402.8
22.5°	418.6	415.5	411.9	408.5	406.1	405.1	404.1	404.8
25°	425.9	422.5	418.9	415.0	412.4	411.6	410.3	410.3
27.5°	436.0	433.2	430.1	426.4	423.8	423.0	421.0	421.0
30°	452.2	449.3	446.4	443.3	440.7	439.9	437.3	437.3
32.5°	473.5	470.4	468.5	465.9	463.9	462.6	459.4	459.2
35°	502.1	499.2	499.0	497.1	495.1	495.3	492.2	491.7
37.5°	543.2	540.8	541.6	540.0	538.2	539.8	538.0	538.0
40°	595.7	594.9	595.7	594.6	594.9	595.2	593.6	594.1
42.5°	659.1	657.0	661.7	661.2	660.4	662.5	658.9	656.3
45°	732.2	731.4	736.1	736.9	735.3	736.6	730.1	729.8
47.5°	811.5	811.5	815.6	815.1	813.6	813.8	806.0	801.1
50°	894.2	893.6	897.8	896.8	894.7	894.4	886.4	881.4
52.5°	980.2	980.2	986.2	983.3	978.4	976.1	966.2	959.7
55°	1075.4	1074.1	1075.9	1066.5	1056.9	1049.9	1037.7	1032.7
57.5°	1195.8	1180.7	1167.7	1155.7	1142.2	1133.9	1119.6	1114.4
60°	1366.6	1326.3	1308.9	1285.0	1262.6	1251.4	1232.4	1222.3
62.5°	1603.2	1536.4	1489.1	1436.3	1385.3	1349.4	1320.6	1307.8
65°	1876.7	1731.1	1610.7	1497.6	1401.7	1325.5	1283.1	1269.9
67.5°	1980.7	1713.4	1505.7	1343.5	1227.0	1136.2	1085.5	1074.9
68°	1958.6	1672.9	1457.1	1290.9	1173.9	1082.4	1032.0	1022.3
70°	1727.7	1411.3	1183.6	1018.2	909.0	821.9	786.3	770.9
72.5°	1177.8	906.4	695.3	556.2	474.5	419.4	386.6	375.4
75°	542.1	366.3	244.7	182.8	155.2	142.0	131.8	129.2
77.5°	158.1	114.9	98.8	91.5	86.1	81.4	78.0	77.7
80°	75.1	70.5	68.4	63.7	58.8	54.3	51.2	51.7
82.5°	50.4	49.1	49.1	44.5	36.7	31.5	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)