

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: P198642

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198642
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-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 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: 4341.4 lumens
Efficiency: N/A
Efficacy: 127.7 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

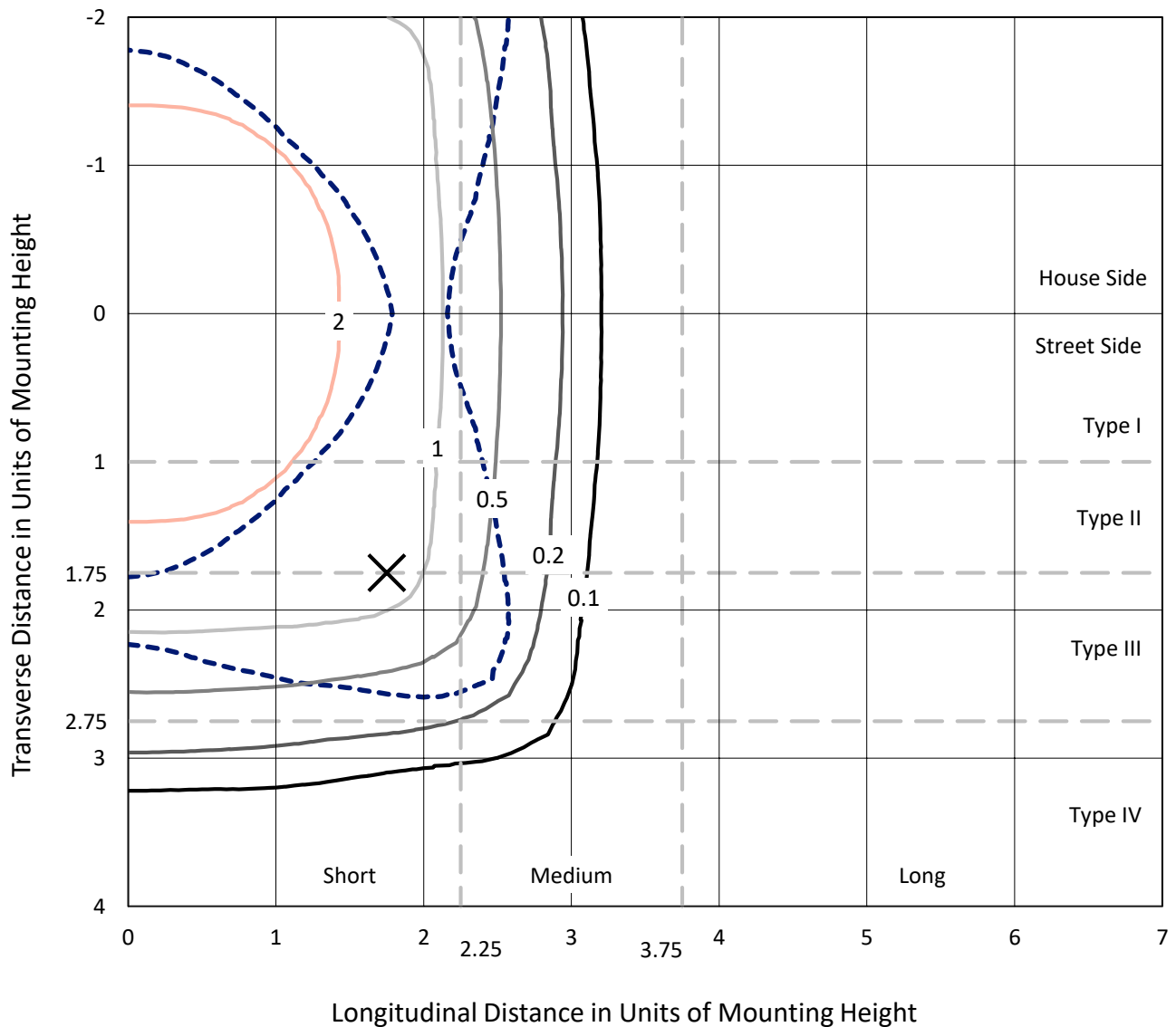
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

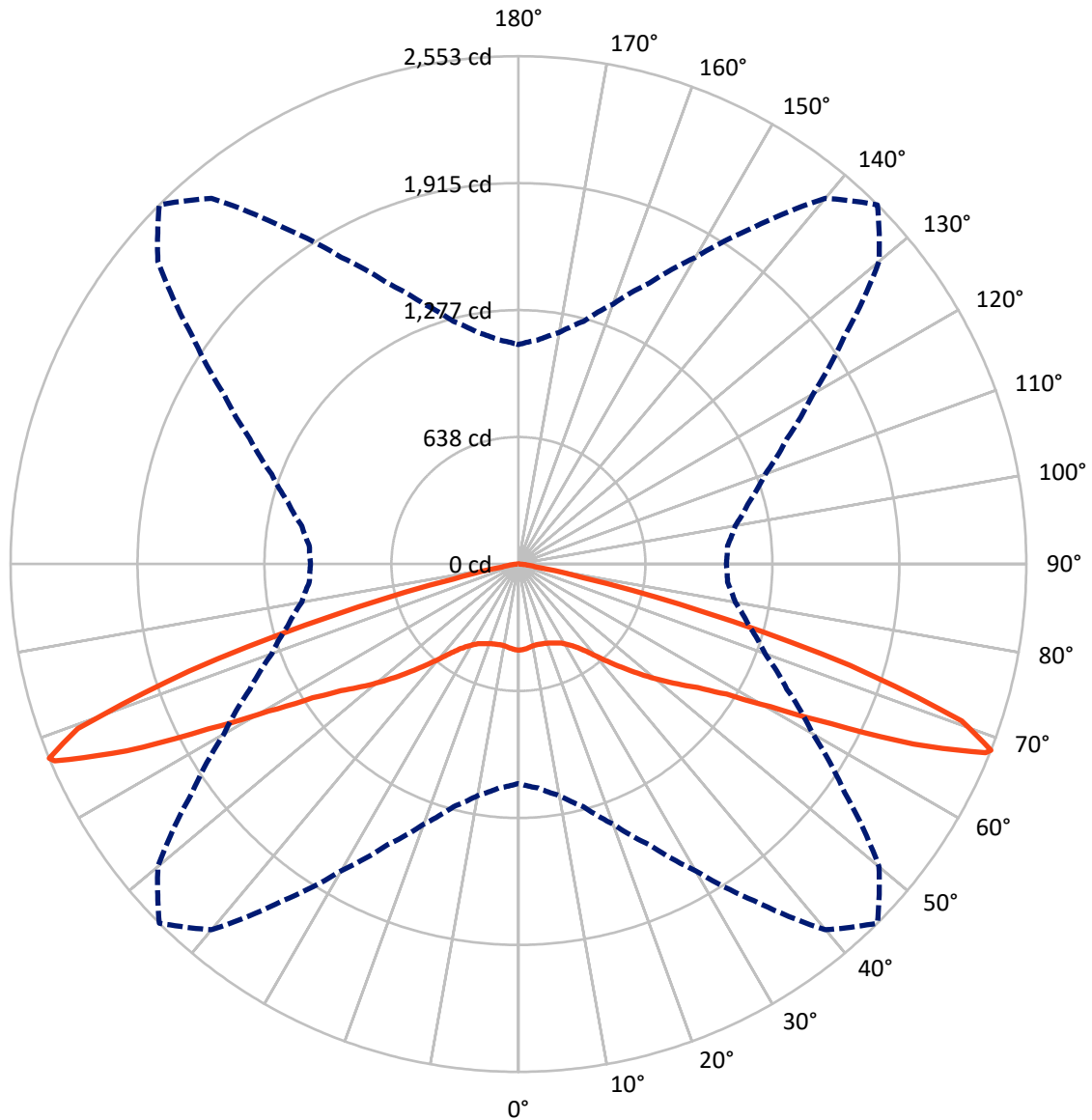
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - 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	2170.7	0.0	2170.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2170.7	0.0	2170.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	4341.4	0.0	4341.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.5	0.9
10°-20°	117.5	2.7
20°-30°	199.8	4.6
30°-40°	327.0	7.5
40°-50°	584.4	13.5
50°-60°	986.9	22.7
60°-70°	1530.3	35.2
70°-80°	526.2	12.1
80°-90°	28.9	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°	4341.4	100.0
0°-180°	4341.4	100.0



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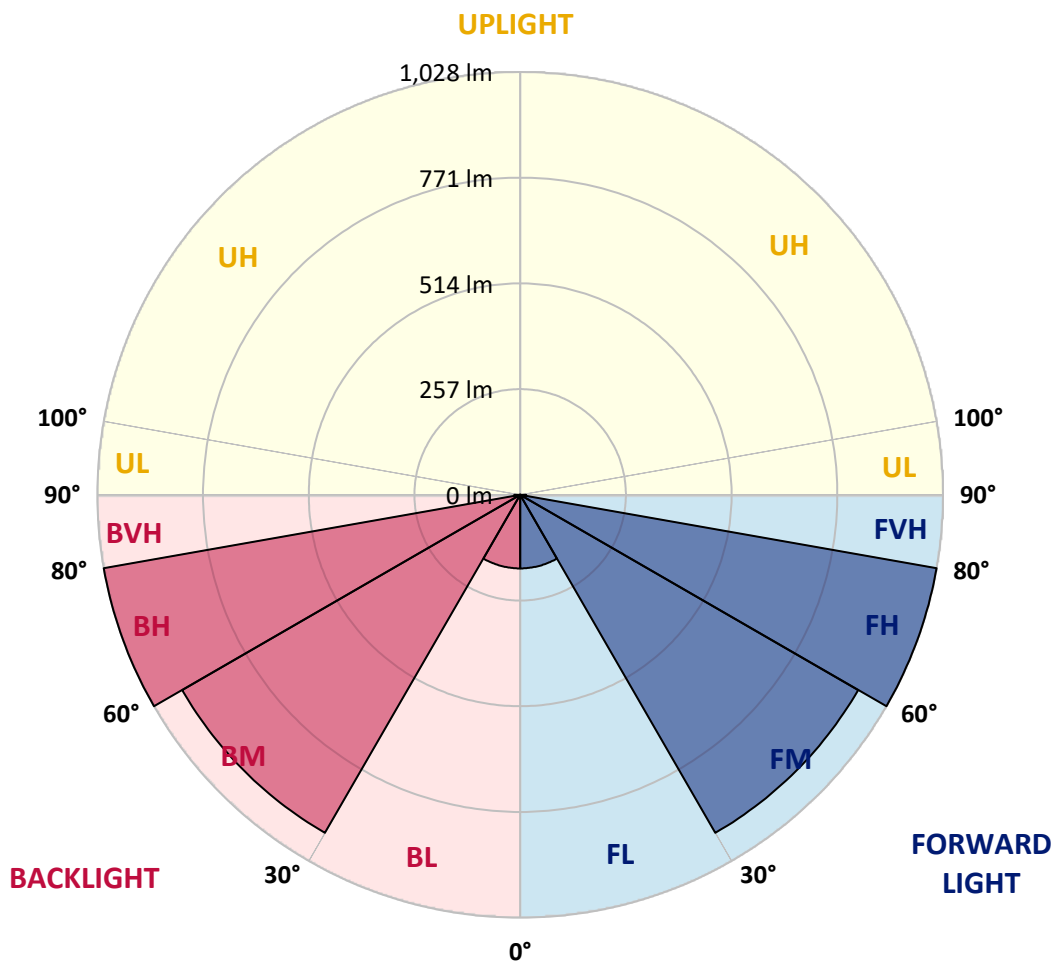
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	178.9	4.1			
FM (30°-60°)	949.1	21.9			
FH (60°-80°)	1028.2	23.7			G1/1800
FVH (80°-90°)	14.5	0.3			G1/100
BL (0°-30°)	178.9	4.1	B1/500		
BM (30°-60°)	949.1	21.9	B1/1000		
BH (60°-80°)	1028.2	23.7	B3/2500		G1/1800
BVH (80°-90°)	14.5	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°	433.1	433.1	433.1	433.1	433.1	433.1	433.1	433.1	433.1	433.1	433.1
2.5°	435.0	435.0	435.5	435.2	434.4	433.6	432.8	432.0	431.5	431.0	430.5
5°	430.5	430.5	431.2	430.7	430.2	429.3	428.8	428.0	427.5	427.0	427.2
7.5°	424.5	425.1	425.6	425.3	424.3	424.0	423.2	423.0	422.5	421.7	421.9
10°	419.5	419.8	420.3	420.0	419.8	419.0	418.7	418.5	418.2	417.2	416.9
12.5°	414.5	415.0	415.5	415.8	415.5	415.8	416.0	416.3	416.0	415.5	415.5
15°	410.5	411.0	411.8	412.6	412.9	414.5	415.5	416.5	417.4	417.7	416.9
17.5°	408.4	409.2	410.2	411.8	413.2	415.0	416.9	418.5	419.8	420.0	419.2
20°	408.1	408.9	410.5	412.4	414.7	417.2	420.0	422.5	423.8	424.5	423.8
22.5°	409.9	411.0	413.2	415.5	418.5	421.7	425.3	428.0	430.7	431.8	431.0
25°	415.2	416.3	418.7	421.7	424.8	428.8	432.5	436.0	438.6	440.0	438.9
27.5°	426.5	426.7	429.3	432.5	436.3	439.7	444.5	446.1	448.3	449.6	448.3
30°	442.1	442.6	445.0	450.1	453.6	458.1	460.7	462.3	464.7	466.1	464.4
32.5°	466.1	466.6	468.7	473.5	476.7	480.2	483.3	484.4	486.7	488.4	486.5
35°	499.8	500.8	502.7	506.0	508.6	511.3	513.6	512.8	514.4	516.6	514.6
37.5°	546.1	545.7	546.4	548.7	551.4	553.0	556.7	554.8	556.4	558.3	557.2
40°	600.1	600.1	599.8	604.1	605.1	606.7	610.7	608.2	610.4	612.5	610.7
42.5°	661.4	662.5	663.8	667.3	670.2	670.7	672.6	671.6	674.2	676.1	674.2
45°	732.1	733.8	735.3	743.3	744.6	745.7	747.1	743.6	746.5	748.1	747.6
47.5°	805.5	808.4	811.9	820.1	825.4	827.9	828.9	824.9	825.2	827.6	827.9
50°	888.4	891.7	895.1	904.4	909.5	913.7	915.0	910.5	911.0	912.9	913.5
52.5°	965.1	968.7	976.2	988.7	995.8	1003.3	1003.8	998.3	1000.7	1002.0	1001.0
55°	1037.1	1041.9	1051.7	1068.5	1081.5	1096.1	1102.7	1096.6	1096.6	1095.6	1095.1
57.5°	1121.1	1126.4	1136.5	1155.9	1173.9	1195.0	1213.1	1219.2	1230.3	1234.1	1228.3
60°	1247.6	1253.2	1263.5	1289.1	1311.9	1342.5	1372.3	1396.5	1435.8	1457.1	1438.0
62.5°	1363.3	1371.8	1396.2	1440.9	1490.3	1547.0	1612.7	1659.4	1730.9	1766.5	1718.5
65°	1337.0	1354.3	1402.1	1472.2	1574.3	1697.2	1830.9	1959.3	2107.1	2182.9	2085.1
67.5°	1167.9	1182.5	1234.1	1315.7	1443.1	1612.4	1820.2	2086.1	2391.0	2533.0	2359.9
68°	1103.3	1130.7	1181.9	1263.0	1391.4	1557.9	1779.8	2067.0	2399.8	2553.2	2366.3
70°	846.0	855.8	904.9	977.8	1116.3	1279.5	1503.6	1830.9	2207.1	2365.0	2172.7
72.5°	401.9	407.9	439.7	511.5	599.4	732.4	930.2	1238.9	1577.8	1742.1	1550.4
75°	147.3	148.6	156.1	173.1	206.0	256.0	350.9	542.9	803.6	958.4	806.8
77.5°	79.5	79.8	82.7	87.0	92.8	99.4	113.8	152.6	246.2	335.0	260.0
80°	50.0	49.7	52.7	56.1	60.0	63.3	64.7	69.2	77.8	91.1	83.8
82.5°	25.5	27.9	34.6	38.3	44.1	45.2	43.9	43.6	46.2	50.0	51.6
85°	14.1	12.5	18.3	24.4	26.6	27.4	27.6	26.1	25.5	25.0	26.3
87.5°	7.2	6.6	8.0	12.3	13.0	10.6	10.9	9.3	6.3	6.3	6.6
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°	433.1	433.1	433.1	433.1	433.1	433.1	433.1	433.1
2.5°	429.8	430.2	429.6	429.6	429.6	429.8	429.6	429.3
5°	426.5	427.0	427.0	427.2	427.5	427.5	427.5	427.5
7.5°	421.4	421.7	422.2	422.2	422.2	422.2	422.2	422.2
10°	416.5	416.0	415.8	415.2	415.2	414.5	414.7	415.0
12.5°	414.2	413.2	412.6	411.8	411.2	410.5	410.5	410.7
15°	415.2	413.7	412.0	411.5	411.0	410.5	409.9	410.2
17.5°	417.4	415.5	413.7	412.6	411.5	410.7	410.5	410.7
20°	421.9	419.2	416.3	414.5	412.4	411.8	411.0	411.8
22.5°	428.0	424.8	421.1	417.7	415.2	414.2	413.2	413.9
25°	435.5	432.0	428.3	424.3	421.7	420.8	419.5	419.5
27.5°	445.8	442.9	439.7	436.0	433.3	432.5	430.5	430.5
30°	462.3	459.4	456.4	453.3	450.6	449.8	447.1	447.1
32.5°	484.1	480.9	479.0	476.4	474.2	472.9	469.7	469.5
35°	513.3	510.5	510.1	508.3	506.2	506.5	503.3	502.7
37.5°	555.4	553.0	553.7	552.2	550.3	551.9	550.0	550.0
40°	609.1	608.2	609.1	608.0	608.2	608.6	606.9	607.4
42.5°	673.9	671.8	676.6	676.1	675.2	677.4	673.6	671.0
45°	748.6	747.9	752.6	753.4	751.9	753.2	746.5	746.2
47.5°	829.7	829.7	834.0	833.4	831.9	832.1	824.1	819.1
50°	914.2	913.7	918.0	916.9	914.8	914.5	906.2	901.2
52.5°	1002.3	1002.3	1008.3	1005.5	1000.3	998.0	987.9	981.2
55°	1099.6	1098.2	1100.1	1090.5	1080.6	1073.5	1061.0	1056.0
57.5°	1222.6	1207.2	1193.9	1181.7	1167.9	1159.4	1144.8	1139.5
60°	1397.4	1356.1	1338.3	1313.8	1291.0	1279.5	1260.2	1249.7
62.5°	1639.2	1570.9	1522.6	1468.5	1416.5	1379.8	1350.3	1337.2
65°	1918.9	1770.0	1647.0	1531.3	1433.2	1355.3	1311.9	1298.4
67.5°	2025.2	1751.9	1539.5	1373.6	1254.5	1161.8	1109.9	1099.1
68°	2002.6	1710.5	1489.8	1319.9	1200.3	1106.7	1055.2	1045.4
70°	1766.5	1443.1	1210.2	1041.1	929.5	840.4	803.9	788.3
72.5°	1204.3	926.8	710.8	568.7	485.2	428.8	395.3	383.9
75°	554.3	374.6	250.2	186.9	158.8	145.2	134.8	132.2
77.5°	161.6	117.5	101.1	93.6	88.0	83.2	79.8	79.5
80°	76.8	72.0	69.9	65.2	60.0	55.5	52.4	52.9
82.5°	51.6	50.2	50.2	45.4	37.4	32.1	26.6	23.9
85°	27.4	28.4	30.1	28.4	24.8	18.3	12.0	13.0
87.5°	9.3	10.6	11.2	10.9	9.8	7.5	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)