

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: P199134

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199134
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24130)
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-5NQ-8030
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5073 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

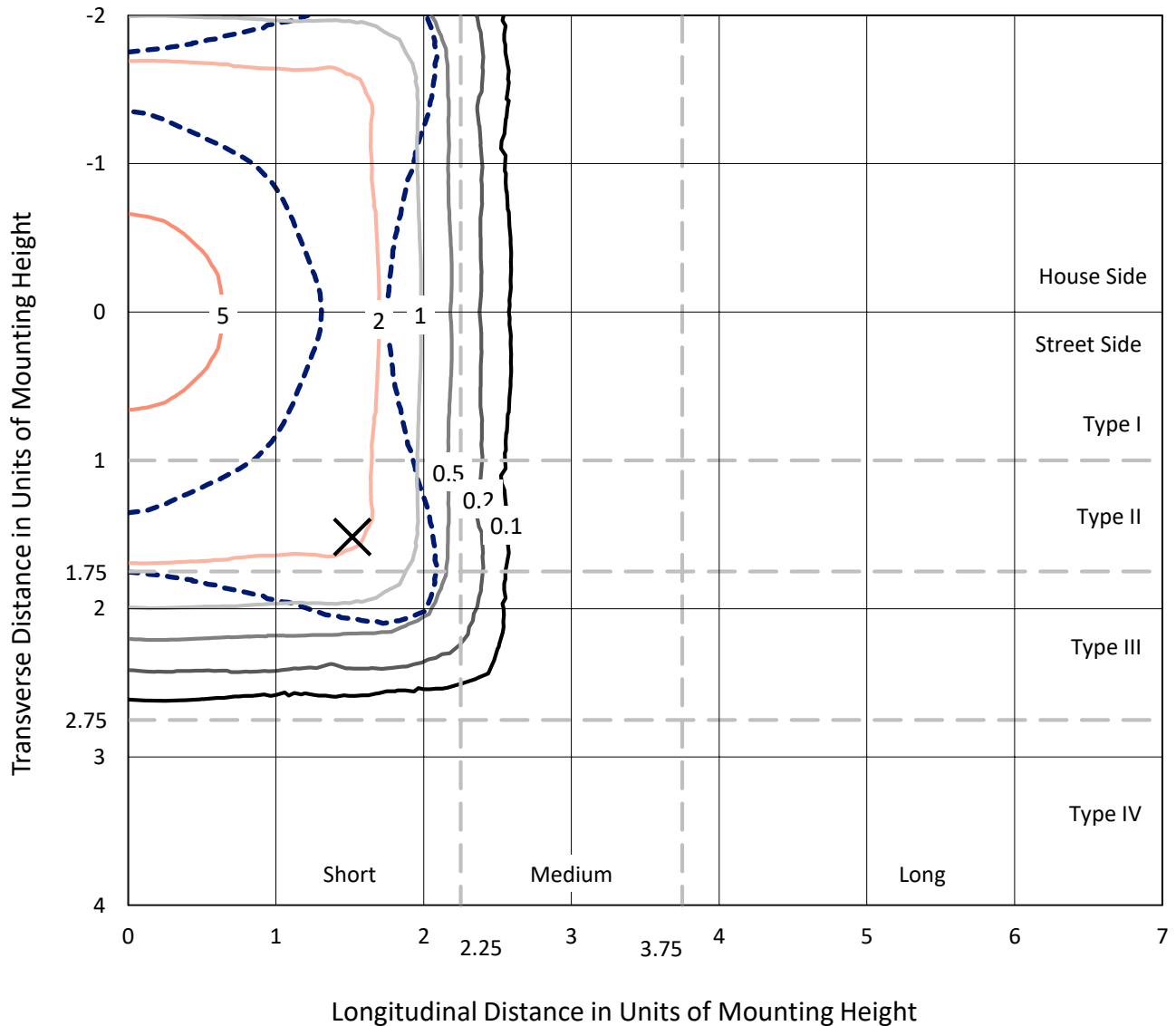
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

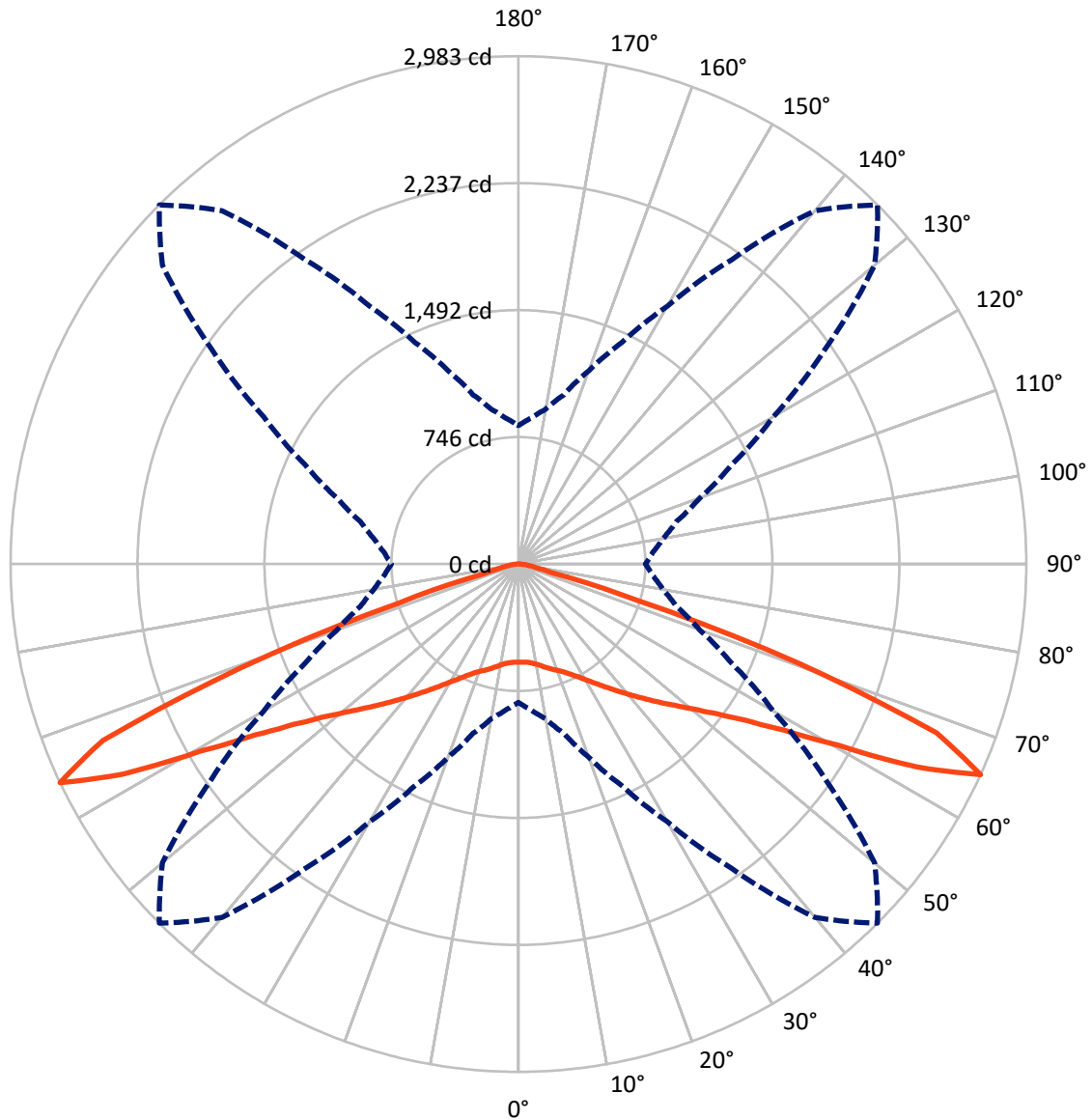
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2536.5	0.0	2536.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2536.5	0.0	2536.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5073.0	0.0	5073.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.2	1.1
10°-20°	180.1	3.6
20°-30°	336.0	6.6
30°-40°	566.5	11.2
40°-50°	920.2	18.1
50°-60°	1441.7	28.4
60°-70°	1360.9	26.8
70°-80°	183.4	3.6
80°-90°	27.9	0.6
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°	5073.0	100.0
0°-180°	5073.0	100.0



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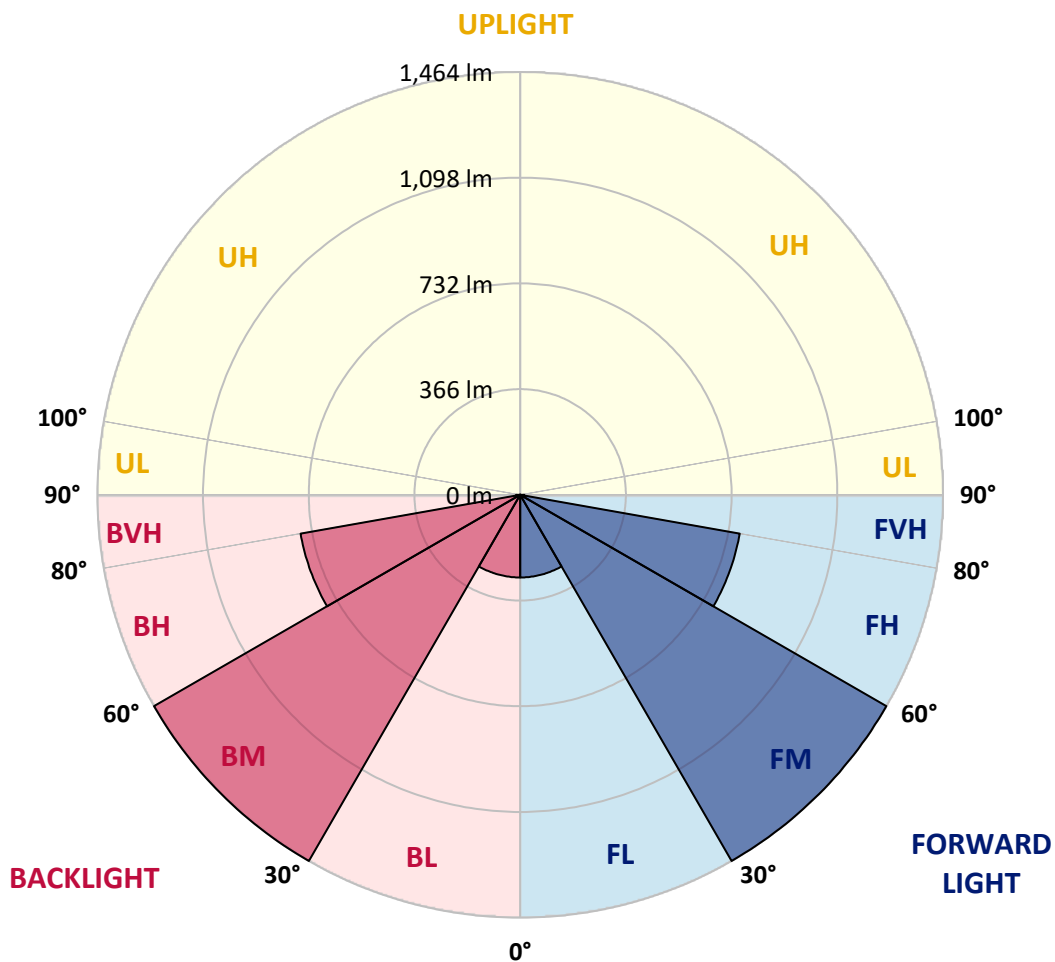
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	286.1	5.6			
FM (30°-60°)	1464.2	28.9			
FH (60°-80°)	772.2	15.2			G1/1800
FVH (80°-90°)	14.0	0.3			G1/100
BL (0°-30°)	286.1	5.6	B1/500		
BM (30°-60°)	1464.2	28.9	B2/2500		
BH (60°-80°)	772.2	15.2	B2/1000		G1/1800
BVH (80°-90°)	14.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
2.5°	581.8	581.8	582.7	582.4	581.2	580.2	579.3	578.0	577.4	576.7	576.4
5°	584.9	584.9	585.9	585.6	584.6	583.4	582.7	581.8	580.8	580.2	580.5
7.5°	592.8	593.2	593.5	593.2	592.2	591.3	590.0	589.7	588.4	587.5	588.1
10°	604.9	604.9	605.2	605.5	604.9	602.6	602.6	602.0	600.7	599.5	599.8
12.5°	618.1	618.1	618.4	618.4	618.4	617.2	617.5	617.2	615.6	615.0	615.6
15°	631.1	631.4	631.4	632.0	632.0	632.4	633.6	633.6	633.0	632.7	632.7
17.5°	646.3	646.9	647.2	648.2	648.5	649.1	650.4	650.7	651.0	650.0	650.4
20°	666.5	666.8	667.7	668.1	669.3	669.3	670.0	669.6	669.0	667.7	667.7
22.5°	689.2	689.9	691.8	691.8	693.3	692.4	692.7	691.8	690.2	689.5	688.9
25°	718.9	719.9	721.5	720.8	721.5	719.9	719.9	719.9	718.9	718.0	717.7
27.5°	756.5	755.0	756.5	755.3	755.0	753.7	754.0	753.4	752.4	752.1	750.9
30°	795.7	793.8	794.8	795.1	794.5	794.2	792.9	791.9	790.4	790.7	789.7
32.5°	840.6	838.7	839.7	840.0	839.3	840.0	839.7	837.4	835.5	836.8	836.8
35°	894.0	892.7	895.3	896.2	894.3	893.4	892.1	889.6	886.7	888.6	889.0
37.5°	958.2	956.6	958.5	961.0	957.5	955.6	950.6	946.8	944.9	945.8	947.1
40°	1024.8	1025.2	1030.5	1031.2	1027.4	1025.2	1020.1	1014.4	1009.0	1009.0	1010.6
42.5°	1095.0	1095.9	1102.3	1104.5	1103.2	1099.1	1092.2	1085.2	1078.3	1079.5	1081.4
45°	1174.3	1173.1	1179.7	1185.1	1184.1	1182.9	1176.2	1163.6	1157.3	1156.9	1160.1
47.5°	1257.7	1260.3	1267.2	1276.4	1276.1	1272.9	1264.4	1252.7	1241.0	1241.9	1245.7
50°	1355.1	1358.6	1370.3	1379.4	1380.7	1379.7	1369.6	1356.0	1339.6	1340.5	1345.6
52.5°	1442.3	1447.4	1460.9	1479.9	1491.6	1497.0	1490.3	1477.7	1460.9	1461.9	1467.3
55°	1521.3	1529.2	1549.4	1575.3	1598.7	1620.5	1630.3	1630.0	1617.7	1620.5	1627.5
57.5°	1570.9	1582.0	1612.6	1654.4	1700.8	1744.7	1782.7	1818.4	1826.3	1841.1	1841.1
60°	1504.2	1530.2	1570.9	1642.3	1733.7	1832.3	1939.1	2043.1	2110.0	2162.8	2134.4
62.5°	1256.2	1294.4	1351.6	1445.8	1588.0	1764.0	1978.6	2220.3	2472.5	2626.7	2513.6
65°	812.8	860.8	923.1	1029.0	1208.1	1434.7	1747.3	2181.8	2709.5	2983.2	2730.4
67.5°	322.0	354.6	392.5	467.7	623.2	845.7	1196.4	1732.4	2392.6	2650.8	2367.3
70°	153.9	159.3	166.5	182.7	221.5	299.0	480.7	853.6	1467.3	1739.4	1432.2
72.5°	111.2	112.2	115.7	121.0	132.4	148.2	180.1	261.0	505.9	735.7	506.6
75°	84.4	85.6	87.5	90.4	96.4	104.0	116.0	139.0	173.2	199.7	172.9
77.5°	64.2	65.4	67.0	69.8	73.0	78.4	82.8	92.0	106.5	112.2	111.6
80°	46.8	49.0	51.5	54.0	56.3	58.8	59.1	63.5	71.7	77.1	75.5
82.5°	29.7	31.6	38.2	41.1	41.4	42.0	41.7	42.0	46.5	50.2	49.0
85°	19.0	20.2	23.7	26.9	26.2	27.5	27.5	26.9	25.0	21.5	25.6
87.5°	9.5	9.8	11.4	14.2	13.6	12.0	11.7	11.7	8.5	7.3	7.9
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°	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
2.5°	575.5	576.1	575.2	575.2	574.8	575.5	574.5	574.5
5°	579.9	580.8	580.5	580.5	581.2	581.8	581.5	581.2
7.5°	587.8	588.4	589.1	589.4	590.0	589.7	590.3	590.0
10°	599.8	599.2	600.1	599.2	599.5	598.9	599.2	599.2
12.5°	615.0	614.0	613.4	612.8	612.8	611.5	611.5	611.8
15°	632.4	630.8	629.5	628.9	628.2	628.2	627.3	627.9
17.5°	649.4	647.8	645.6	645.6	644.7	644.0	643.4	645.0
20°	667.4	665.8	664.6	664.3	662.4	661.7	662.1	664.0
22.5°	688.3	687.3	687.3	686.7	685.4	684.5	684.5	686.7
25°	716.4	714.5	714.8	715.1	714.5	714.5	713.9	715.5
27.5°	750.9	749.3	750.2	750.9	750.2	751.2	750.2	751.5
30°	791.3	790.4	791.3	792.3	790.7	790.7	790.0	791.0
32.5°	839.7	838.4	839.0	839.0	836.8	834.9	832.4	834.3
35°	892.7	891.2	892.4	893.4	890.9	889.0	885.2	886.7
37.5°	951.2	951.8	953.4	957.5	956.9	953.7	950.9	952.2
40°	1016.6	1019.8	1026.7	1029.6	1029.0	1025.8	1022.0	1022.6
42.5°	1090.6	1094.7	1102.0	1106.7	1104.5	1100.1	1095.3	1097.2
45°	1171.2	1177.5	1187.0	1191.7	1188.9	1184.1	1177.5	1181.0
47.5°	1256.5	1269.1	1281.8	1288.1	1287.1	1280.5	1272.0	1272.9
50°	1358.6	1375.3	1391.4	1397.7	1393.0	1382.9	1370.9	1370.6
52.5°	1485.6	1503.6	1516.9	1515.3	1503.6	1487.8	1474.2	1473.6
55°	1644.2	1650.2	1648.3	1634.8	1614.2	1589.6	1572.2	1569.3
57.5°	1836.1	1815.8	1786.1	1745.0	1698.9	1652.1	1620.5	1608.8
60°	2070.5	1979.2	1873.0	1761.2	1659.1	1582.6	1534.3	1504.9
62.5°	2264.3	1999.8	1762.4	1568.1	1409.1	1314.6	1248.6	1207.8
65°	2197.9	1727.7	1383.8	1133.2	959.7	862.1	792.3	745.8
67.5°	1698.0	1154.4	803.3	556.8	422.2	357.4	312.2	282.8
70°	856.1	442.7	268.3	189.3	161.8	150.4	142.8	138.4
72.5°	251.2	167.8	139.4	123.2	113.5	106.5	102.1	99.9
75°	139.0	113.5	100.2	91.0	84.7	80.0	77.1	75.2
77.5°	95.8	82.5	75.8	69.8	64.8	61.3	59.1	57.2
80°	67.0	60.4	57.5	54.4	50.6	47.7	44.6	43.3
82.5°	44.6	41.7	41.1	38.6	36.3	33.2	27.5	25.6
85°	26.2	25.9	25.9	25.0	23.4	20.5	16.4	16.4
87.5°	9.2	9.5	9.8	10.4	10.1	8.5	7.0	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)