

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: P198812

Luminaire Tested: **XNV-AF-01-LED-U-5NQ-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198812
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-7050-800
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5023 lumens
Efficiency: N/A
Efficacy: 114.2 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): 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

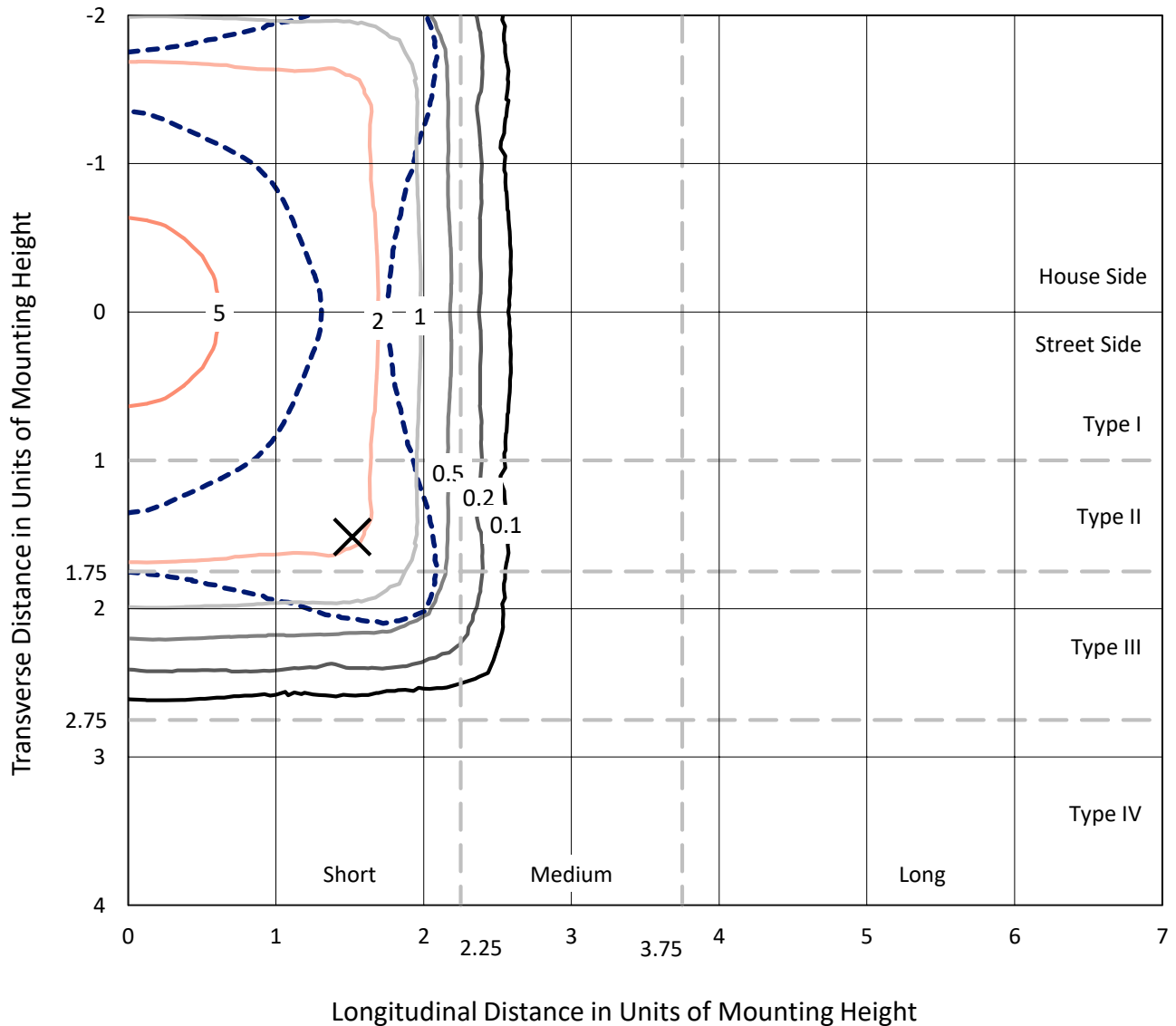


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

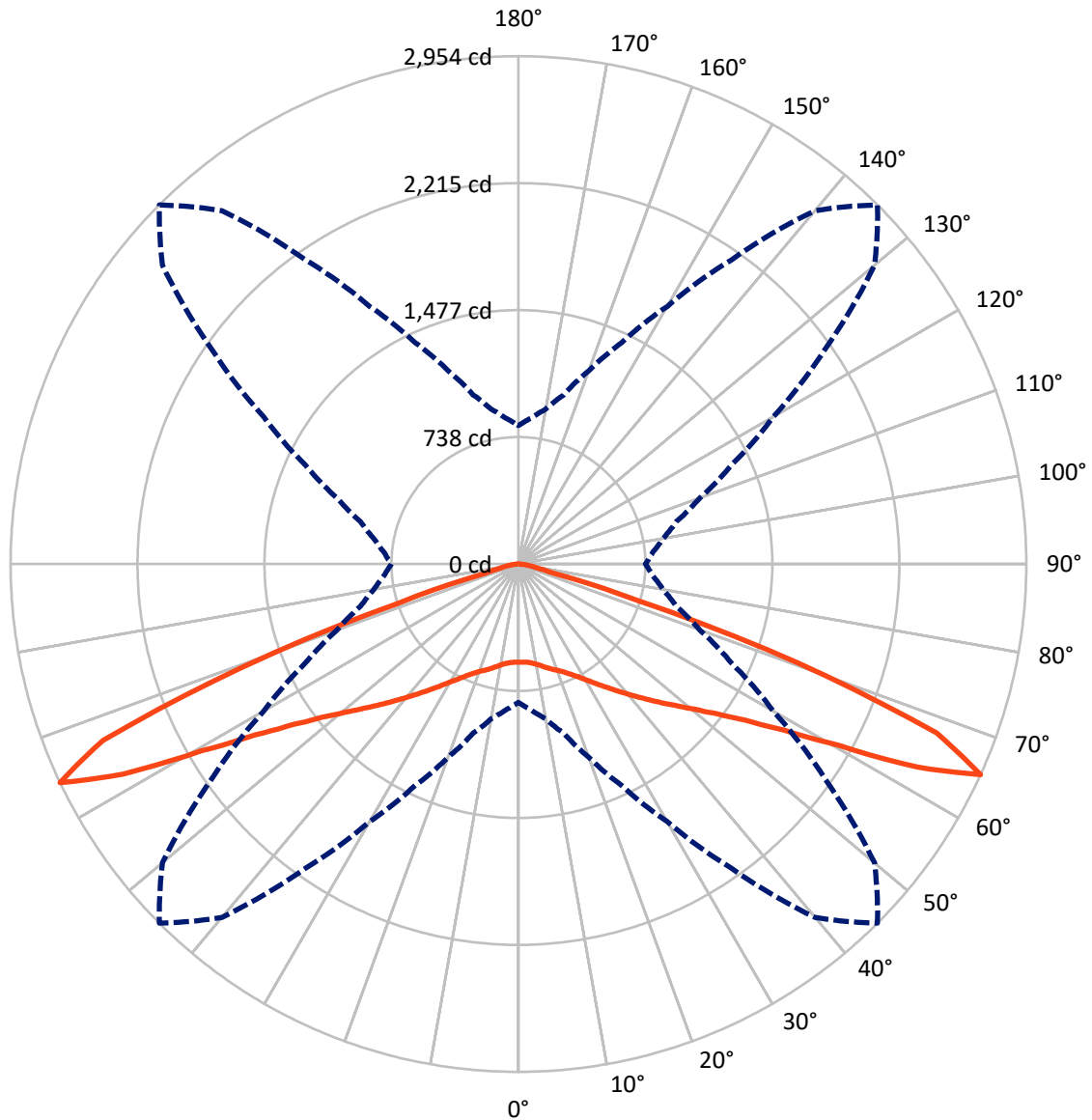


Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
 Type V - Short - Full Cutoff

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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	2511.5	0.0	2511.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2511.5	0.0	2511.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5023.0	0.0	5023.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.6	1.1
10°-20°	178.3	3.6
20°-30°	332.7	6.6
30°-40°	560.9	11.2
40°-50°	911.1	18.1
50°-60°	1427.5	28.4
60°-70°	1347.5	26.8
70°-80°	181.6	3.6
80°-90°	27.7	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°	5023.0	100.0
0°-180°	5023.0	100.0

Coefficient of Utilization



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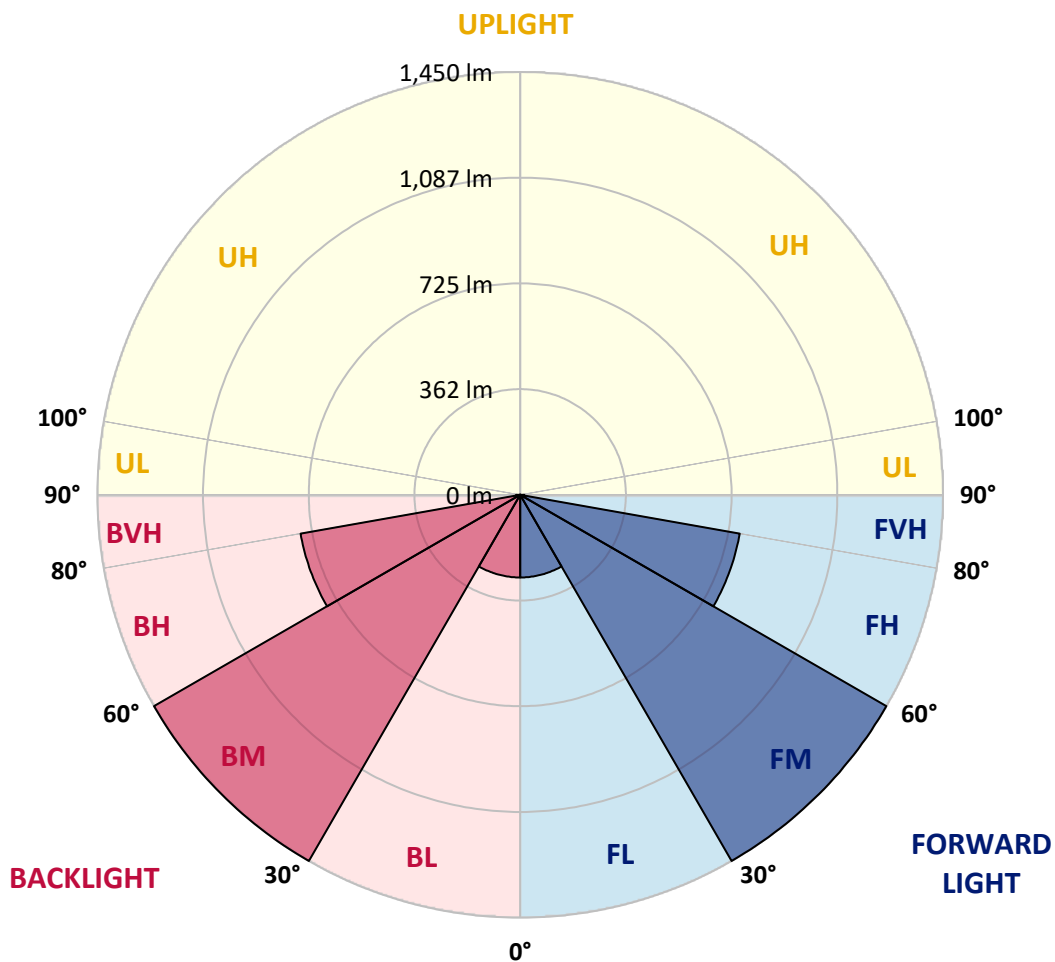
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	283.3	5.6			
FM (30°-60°)	1449.8	28.9			
FH (60°-80°)	764.6	15.2			G1/1800
FVH (80°-90°)	13.8	0.3			G1/100
BL (0°-30°)	283.3	5.6	B1/500		
BM (30°-60°)	1449.8	28.9	B2/2500		
BH (60°-80°)	764.6	15.2	B2/1000		G1/1800
BVH (80°-90°)	13.8	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°	571.4	571.4	571.4	571.4	571.4	571.4	571.4	571.4	571.4	571.4	571.4
2.5°	576.1	576.1	577.0	576.7	575.4	574.5	573.6	572.3	571.7	571.0	570.7
5°	579.2	579.2	580.1	579.8	578.9	577.6	577.0	576.1	575.1	574.5	574.8
7.5°	587.0	587.3	587.6	587.3	586.4	585.4	584.2	583.9	582.6	581.7	582.3
10°	598.9	598.9	599.2	599.5	598.9	596.7	596.7	596.1	594.8	593.6	593.9
12.5°	612.0	612.0	612.4	612.4	612.4	611.1	611.4	611.1	609.5	608.9	609.5
15°	624.9	625.2	625.2	625.8	625.8	626.1	627.4	627.4	626.7	626.4	626.4
17.5°	639.9	640.5	640.8	641.8	642.1	642.7	644.0	644.3	644.6	643.6	644.0
20°	659.9	660.2	661.2	661.5	662.7	662.7	663.4	663.0	662.4	661.2	661.2
22.5°	682.4	683.1	684.9	684.9	686.5	685.6	685.9	684.9	683.4	682.8	682.1
25°	711.9	712.8	714.4	713.7	714.4	712.8	712.8	712.8	711.9	710.9	710.6
27.5°	749.1	747.5	749.1	747.8	747.5	746.3	746.6	746.0	745.0	744.7	743.5
30°	787.9	786.0	787.0	787.3	786.6	786.3	785.1	784.1	782.6	782.9	781.9
32.5°	832.3	830.4	831.4	831.7	831.1	831.7	831.4	829.2	827.3	828.6	828.6
35°	885.2	884.0	886.5	887.4	885.5	884.6	883.3	880.8	878.0	879.9	880.2
37.5°	948.7	947.2	949.0	951.5	948.1	946.2	941.2	937.5	935.6	936.5	937.8
40°	1014.7	1015.1	1020.4	1021.0	1017.2	1015.1	1010.0	1004.4	999.1	999.1	1000.7
42.5°	1084.2	1085.1	1091.4	1093.6	1092.3	1088.3	1081.4	1074.5	1067.6	1068.9	1070.8
45°	1162.7	1161.5	1168.1	1173.4	1172.4	1171.2	1164.6	1152.1	1145.8	1145.5	1148.7
47.5°	1245.4	1247.9	1254.7	1263.8	1263.5	1260.4	1251.9	1240.3	1228.8	1229.7	1233.5
50°	1341.7	1345.2	1356.7	1365.8	1367.1	1366.1	1356.1	1342.7	1326.4	1327.3	1332.3
52.5°	1428.1	1433.1	1446.5	1465.3	1476.9	1482.2	1475.6	1463.1	1446.5	1447.5	1452.8
55°	1506.3	1514.1	1534.2	1559.8	1583.0	1604.6	1614.3	1614.0	1601.7	1604.6	1611.4
57.5°	1555.4	1566.4	1596.7	1638.0	1684.0	1727.5	1765.1	1800.4	1808.3	1823.0	1823.0
60°	1489.4	1515.1	1555.4	1626.2	1716.6	1814.2	1920.0	2022.9	2089.3	2141.5	2113.3
62.5°	1243.8	1281.6	1338.3	1431.5	1572.3	1746.6	1959.1	2198.5	2448.2	2600.8	2488.8
65°	804.8	852.3	914.0	1018.8	1196.2	1420.6	1730.0	2160.3	2682.8	2953.8	2703.5
67.5°	318.8	351.1	388.6	463.1	617.0	837.3	1184.6	1715.3	2369.0	2624.6	2344.0
70°	152.4	157.7	164.9	180.9	219.3	296.0	475.9	845.2	1452.8	1722.2	1418.1
72.5°	110.1	111.1	114.5	119.8	131.1	146.8	178.4	258.5	501.0	728.4	501.6
75°	83.5	84.8	86.7	89.5	95.4	102.9	114.8	137.7	171.5	197.8	171.2
77.5°	63.5	64.8	66.3	69.2	72.3	77.6	82.0	91.1	105.4	111.1	110.5
80°	46.3	48.5	51.0	53.5	55.7	58.2	58.5	62.9	71.0	76.3	74.8
82.5°	29.4	31.3	37.9	40.7	41.0	41.6	41.3	41.6	46.0	49.8	48.5
85°	18.8	20.0	23.5	26.6	26.0	27.2	27.2	26.6	24.7	21.3	25.3
87.5°	9.4	9.7	11.3	14.1	13.5	11.9	11.6	11.6	8.4	7.2	7.8
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°	571.4	571.4	571.4	571.4	571.4	571.4	571.4	571.4
2.5°	569.8	570.4	569.5	569.5	569.2	569.8	568.9	568.9
5°	574.2	575.1	574.8	574.8	575.4	576.1	575.7	575.4
7.5°	582.0	582.6	583.3	583.6	584.2	583.9	584.5	584.2
10°	593.9	593.3	594.2	593.3	593.6	593.0	593.3	593.3
12.5°	608.9	608.0	607.3	606.7	606.7	605.5	605.5	605.8
15°	626.1	624.6	623.3	622.7	622.1	622.1	621.1	621.7
17.5°	643.0	641.5	639.3	639.3	638.3	637.7	637.1	638.6
20°	660.9	659.3	658.0	657.7	655.8	655.2	655.5	657.4
22.5°	681.5	680.6	680.6	679.9	678.7	677.7	677.7	679.9
25°	709.4	707.5	707.8	708.1	707.5	707.5	706.8	708.4
27.5°	743.5	741.9	742.8	743.5	742.8	743.8	742.8	744.1
30°	783.5	782.6	783.5	784.4	782.9	782.9	782.3	783.2
32.5°	831.4	830.1	830.8	830.8	828.6	826.7	824.2	826.1
35°	884.0	882.4	883.6	884.6	882.1	880.2	876.4	878.0
37.5°	941.8	942.5	944.0	948.1	947.5	944.3	941.5	942.8
40°	1006.6	1009.7	1016.6	1019.4	1018.8	1015.7	1011.9	1012.6
42.5°	1079.8	1083.9	1091.1	1095.8	1093.6	1089.2	1084.5	1086.4
45°	1159.6	1165.9	1175.3	1180.0	1177.1	1172.4	1165.9	1169.3
47.5°	1244.1	1256.6	1269.1	1275.4	1274.5	1267.9	1259.4	1260.4
50°	1345.2	1361.8	1377.7	1384.0	1379.3	1369.3	1357.4	1357.1
52.5°	1471.0	1488.8	1501.9	1500.4	1488.8	1473.1	1459.7	1459.1
55°	1628.0	1634.0	1632.1	1618.6	1598.3	1573.9	1556.7	1553.9
57.5°	1818.0	1797.9	1768.5	1727.8	1682.2	1635.9	1604.6	1593.0
60°	2050.1	1959.7	1854.6	1743.8	1642.7	1567.0	1519.1	1490.0
62.5°	2241.9	1980.0	1745.1	1552.6	1395.2	1301.7	1236.3	1195.9
65°	2176.2	1710.6	1370.2	1122.1	950.3	853.6	784.4	738.5
67.5°	1681.2	1143.0	795.4	551.3	418.0	353.9	309.1	280.0
70°	847.7	438.4	265.7	187.4	160.2	148.9	141.4	137.1
72.5°	248.8	166.2	138.0	122.0	112.3	105.4	101.1	98.9
75°	137.7	112.3	99.2	90.1	83.9	79.2	76.3	74.5
77.5°	94.8	81.7	75.1	69.2	64.1	60.7	58.5	56.6
80°	66.3	59.8	56.9	53.8	50.1	47.2	44.1	42.9
82.5°	44.1	41.3	40.7	38.2	36.0	32.9	27.2	25.3
85°	26.0	25.7	25.7	24.7	23.2	20.3	16.3	16.3
87.5°	9.1	9.4	9.7	10.3	10.0	8.4	6.9	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)