

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: P199136

Luminaire Tested: **XNV-AF-01-LED-U-5NQ-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199136
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-8030-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5565 lumens
Efficiency: N/A
Efficacy: 84.3 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

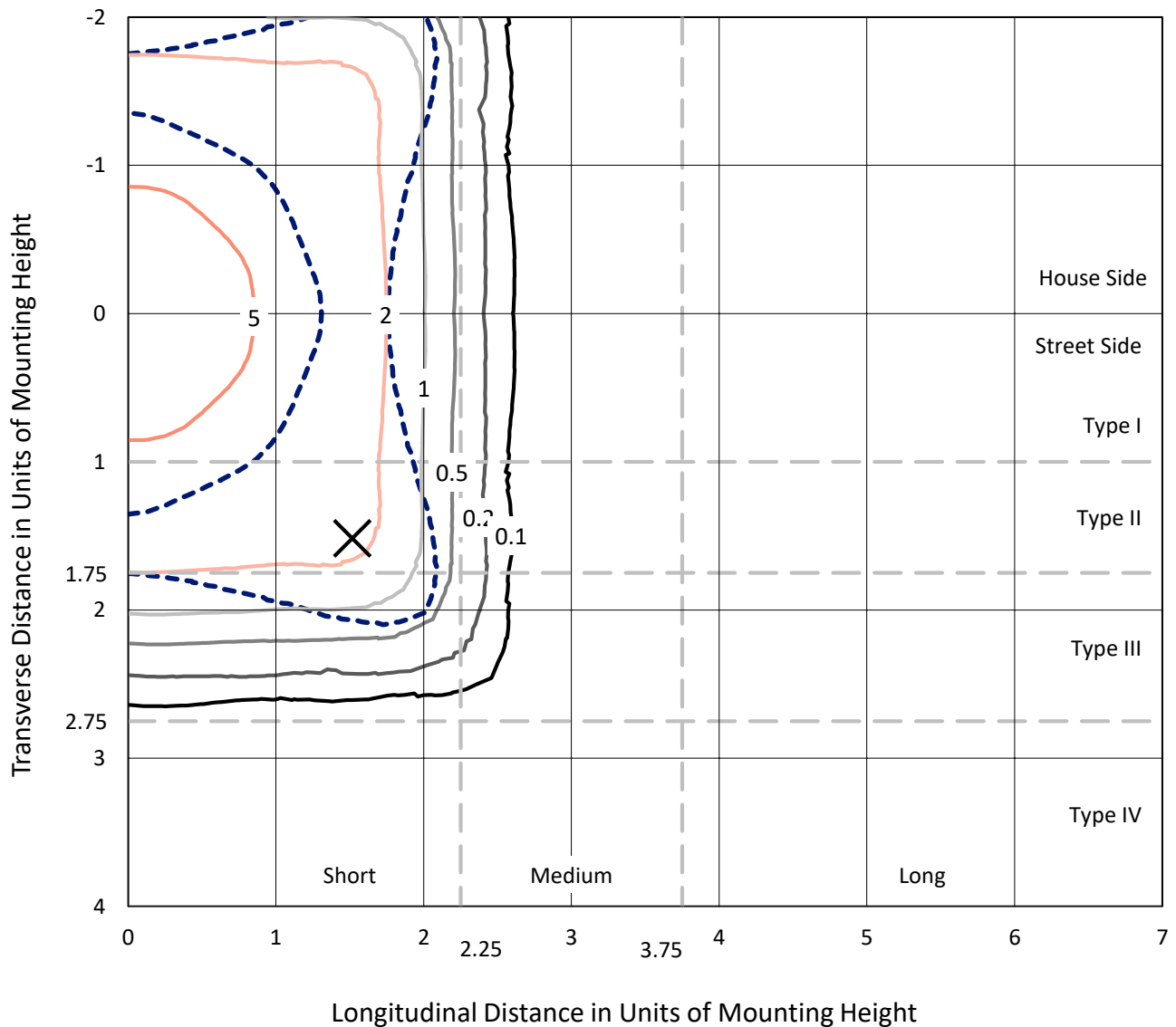
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

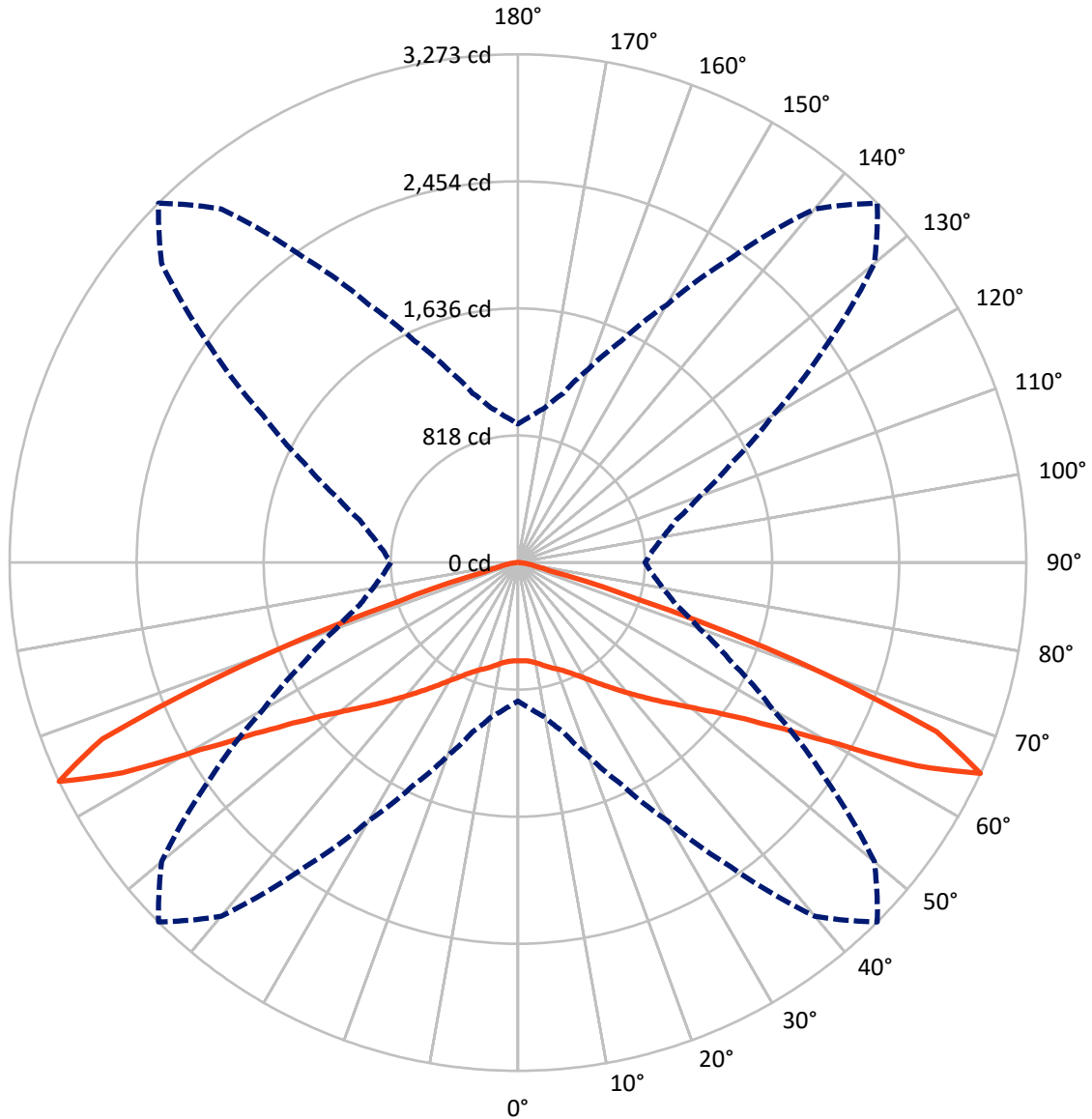
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.3 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	2782.5	0.0	2782.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2782.5	0.0	2782.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5565.0	0.0	5565.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.6	1.1
10°-20°	197.6	3.6
20°-30°	368.6	6.6
30°-40°	621.4	11.2
40°-50°	1009.4	18.1
50°-60°	1581.6	28.4
60°-70°	1492.9	26.8
70°-80°	201.2	3.6
80°-90°	30.7	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°	5565.0	100.0
0°-180°	5565.0	100.0

Coefficient of Utilization



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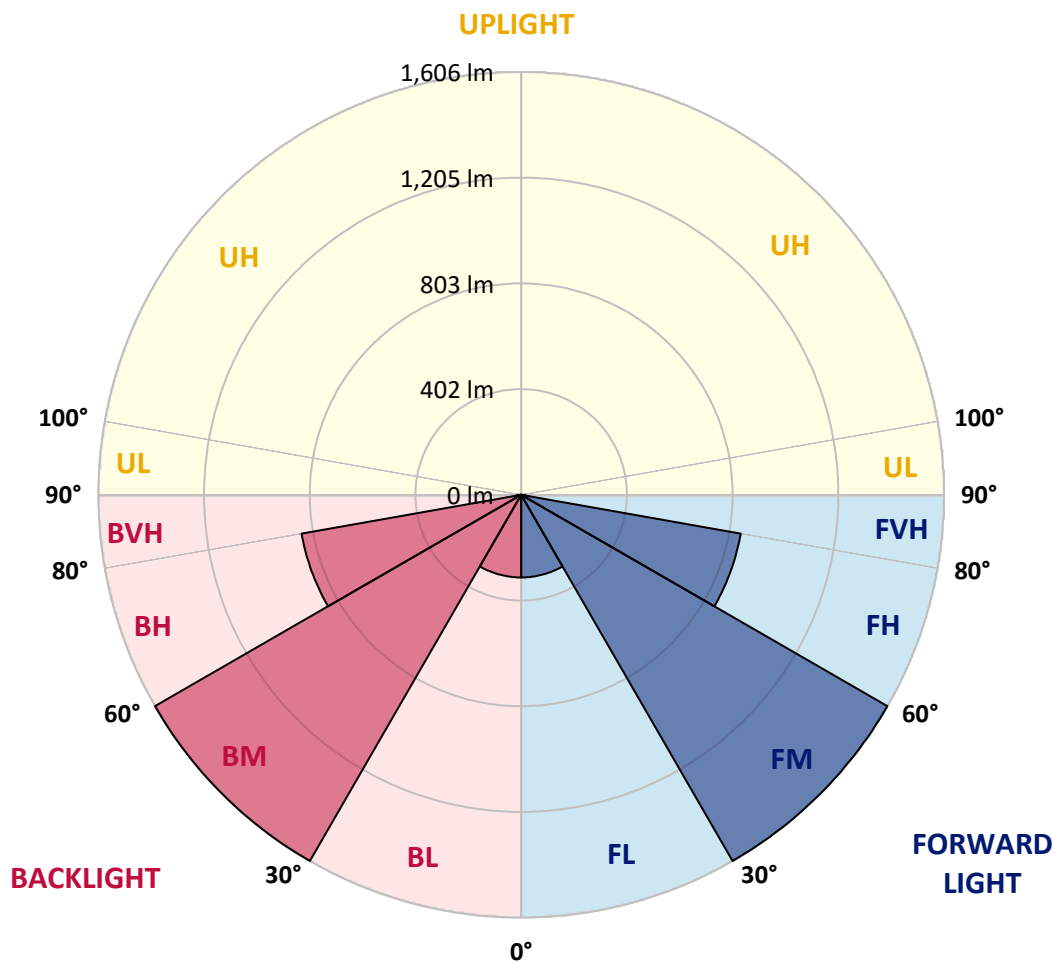
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	313.9	5.6			
FM	(30°-60°)	1606.2	28.9			
FH	(60°-80°)	847.1	15.2			G1/1800
FVH	(80°-90°)	15.3	0.3			G1/100
BL	(0°-30°)	313.9	5.6	B1/500		
BM	(30°-60°)	1606.2	28.9	B2/2500		
BH	(60°-80°)	847.1	15.2	B2/1000		G1/1800
BVH	(80°-90°)	15.3	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°	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
2.5°	638.2	638.2	639.3	638.9	637.5	636.5	635.4	634.1	633.4	632.7	632.3
5°	641.7	641.7	642.7	642.4	641.3	639.9	639.3	638.2	637.2	636.5	636.8
7.5°	650.3	650.7	651.0	650.7	649.7	648.6	647.2	646.9	645.5	644.5	645.1
10°	663.5	663.5	663.9	664.2	663.5	661.1	661.1	660.4	659.0	657.6	658.0
12.5°	678.1	678.1	678.4	678.4	678.4	677.0	677.4	677.0	675.3	674.6	675.3
15°	692.3	692.6	692.6	693.3	693.3	693.7	695.1	695.1	694.4	694.0	694.0
17.5°	708.9	709.6	710.0	711.0	711.4	712.1	713.4	713.8	714.1	713.1	713.4
20°	731.1	731.5	732.5	732.9	734.2	734.2	734.9	734.6	733.9	732.5	732.5
22.5°	756.1	756.8	758.9	758.9	760.6	759.5	759.9	758.9	757.1	756.4	755.7
25°	788.7	789.7	791.4	790.7	791.4	789.7	789.7	789.7	788.7	787.6	787.3
27.5°	829.9	828.2	829.9	828.5	828.2	826.8	827.1	826.5	825.4	825.1	823.7
30°	872.9	870.8	871.9	872.2	871.5	871.2	869.8	868.7	867.0	867.4	866.3
32.5°	922.1	920.1	921.1	921.4	920.7	921.4	921.1	918.7	916.6	918.0	918.0
35°	980.7	979.3	982.1	983.1	981.1	980.0	978.6	975.9	972.7	974.8	975.2
37.5°	1051.1	1049.4	1051.4	1054.2	1050.4	1048.3	1042.8	1038.6	1036.5	1037.6	1039.0
40°	1124.2	1124.6	1130.5	1131.2	1127.0	1124.6	1119.0	1112.8	1106.9	1106.9	1108.6
42.5°	1201.2	1202.2	1209.2	1211.6	1210.2	1205.7	1198.1	1190.5	1182.8	1184.2	1186.3
45°	1288.2	1286.8	1294.1	1300.0	1299.0	1297.6	1290.3	1276.4	1269.5	1269.1	1272.6
47.5°	1379.7	1382.5	1390.1	1400.2	1399.8	1396.4	1387.0	1374.2	1361.4	1362.4	1366.6
50°	1486.5	1490.3	1503.1	1513.2	1514.6	1513.5	1502.5	1487.5	1469.5	1470.6	1476.1
52.5°	1582.2	1587.7	1602.6	1623.4	1636.3	1642.2	1634.9	1621.0	1602.6	1603.7	1609.6
55°	1668.9	1677.5	1699.7	1728.1	1753.8	1777.7	1788.4	1788.1	1774.6	1777.7	1785.3
57.5°	1723.3	1735.4	1769.0	1814.8	1865.8	1913.9	1955.5	1994.7	2003.4	2019.7	2019.7
60°	1650.1	1678.6	1723.3	1801.6	1901.8	2010.0	2127.1	2241.2	2314.7	2372.6	2341.4
62.5°	1378.0	1419.9	1482.7	1586.0	1742.0	1935.1	2170.5	2435.7	2712.3	2881.5	2757.4
65°	891.6	944.3	1012.6	1128.7	1325.3	1573.9	1916.7	2393.4	2972.3	3272.5	2995.2
67.5°	353.3	389.0	430.6	513.1	683.6	927.7	1312.5	1900.4	2624.6	2907.8	2596.9
70°	168.8	174.7	182.7	200.4	243.0	327.9	527.3	936.3	1609.6	1908.0	1571.1
72.5°	122.0	123.1	126.9	132.8	145.3	162.6	197.6	286.3	555.0	807.0	555.7
75°	92.6	93.9	96.0	99.1	105.7	114.1	127.2	152.5	190.0	219.1	189.6
77.5°	70.4	71.8	73.5	76.6	80.1	86.0	90.8	100.9	116.8	123.1	122.4
80°	51.3	53.7	56.5	59.3	61.7	64.5	64.8	69.7	78.7	84.6	82.9
82.5°	32.6	34.7	41.9	45.1	45.4	46.1	45.8	46.1	51.0	55.1	53.7
85°	20.8	22.2	26.0	29.5	28.8	30.2	30.2	29.5	27.4	23.6	28.1
87.5°	10.4	10.7	12.5	15.6	14.9	13.2	12.8	12.8	9.4	8.0	8.7
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°	633.0	633.0	633.0	633.0	633.0	633.0	633.0	633.0
2.5°	631.3	632.0	630.9	630.9	630.6	631.3	630.2	630.2
5°	636.1	637.2	636.8	636.8	637.5	638.2	637.9	637.5
7.5°	644.8	645.5	646.2	646.5	647.2	646.9	647.6	647.2
10°	658.0	657.3	658.3	657.3	657.6	656.9	657.3	657.3
12.5°	674.6	673.6	672.9	672.2	672.2	670.8	670.8	671.1
15°	693.7	691.9	690.6	689.9	689.2	689.2	688.1	688.8
17.5°	712.4	710.7	708.2	708.2	707.2	706.5	705.8	707.5
20°	732.2	730.4	729.0	728.7	726.6	725.9	726.3	728.3
22.5°	755.0	754.0	754.0	753.3	751.9	750.9	750.9	753.3
25°	785.9	783.8	784.2	784.5	783.8	783.8	783.1	784.9
27.5°	823.7	821.9	823.0	823.7	823.0	824.0	823.0	824.4
30°	868.1	867.0	868.1	869.1	867.4	867.4	866.7	867.7
32.5°	921.1	919.7	920.4	920.4	918.0	915.9	913.1	915.2
35°	979.3	977.6	979.0	980.0	977.3	975.2	971.0	972.7
37.5°	1043.5	1044.2	1045.9	1050.4	1049.7	1046.2	1043.1	1044.5
40°	1115.2	1118.7	1126.3	1129.4	1128.7	1125.3	1121.1	1121.8
42.5°	1196.3	1200.9	1208.8	1214.0	1211.6	1206.7	1201.5	1203.6
45°	1284.7	1291.7	1302.1	1307.3	1304.2	1299.0	1291.7	1295.5
47.5°	1378.3	1392.2	1406.1	1413.0	1412.0	1404.7	1395.3	1396.4
50°	1490.3	1508.7	1526.4	1533.3	1528.1	1517.0	1503.8	1503.5
52.5°	1629.7	1649.4	1664.0	1662.3	1649.4	1632.1	1617.2	1616.5
55°	1803.7	1810.3	1808.2	1793.3	1770.8	1743.7	1724.7	1721.5
57.5°	2014.1	1991.9	1959.4	1914.3	1863.7	1812.4	1777.7	1764.9
60°	2271.4	2171.2	2054.7	1932.0	1820.0	1736.1	1683.1	1650.8
62.5°	2483.9	2193.7	1933.4	1720.2	1545.8	1442.1	1369.7	1325.0
65°	2411.1	1895.2	1518.1	1243.1	1052.8	945.7	869.1	818.1
67.5°	1862.6	1266.4	881.2	610.8	463.1	392.1	342.5	310.3
70°	939.1	485.7	294.3	207.7	177.5	165.0	156.7	151.8
72.5°	275.6	184.1	152.9	135.2	124.5	116.8	112.0	109.5
75°	152.5	124.5	109.9	99.8	92.9	87.7	84.6	82.5
77.5°	105.0	90.5	83.2	76.6	71.1	67.3	64.8	62.7
80°	73.5	66.2	63.1	59.6	55.5	52.3	48.9	47.5
82.5°	48.9	45.8	45.1	42.3	39.9	36.4	30.2	28.1
85°	28.8	28.4	28.4	27.4	25.7	22.5	18.0	18.0
87.5°	10.1	10.4	10.7	11.4	11.1	9.4	7.6	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)