

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: P198654

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198654
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
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 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: 6359.7 lumens
Efficiency: N/A
Efficacy: 109.6 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

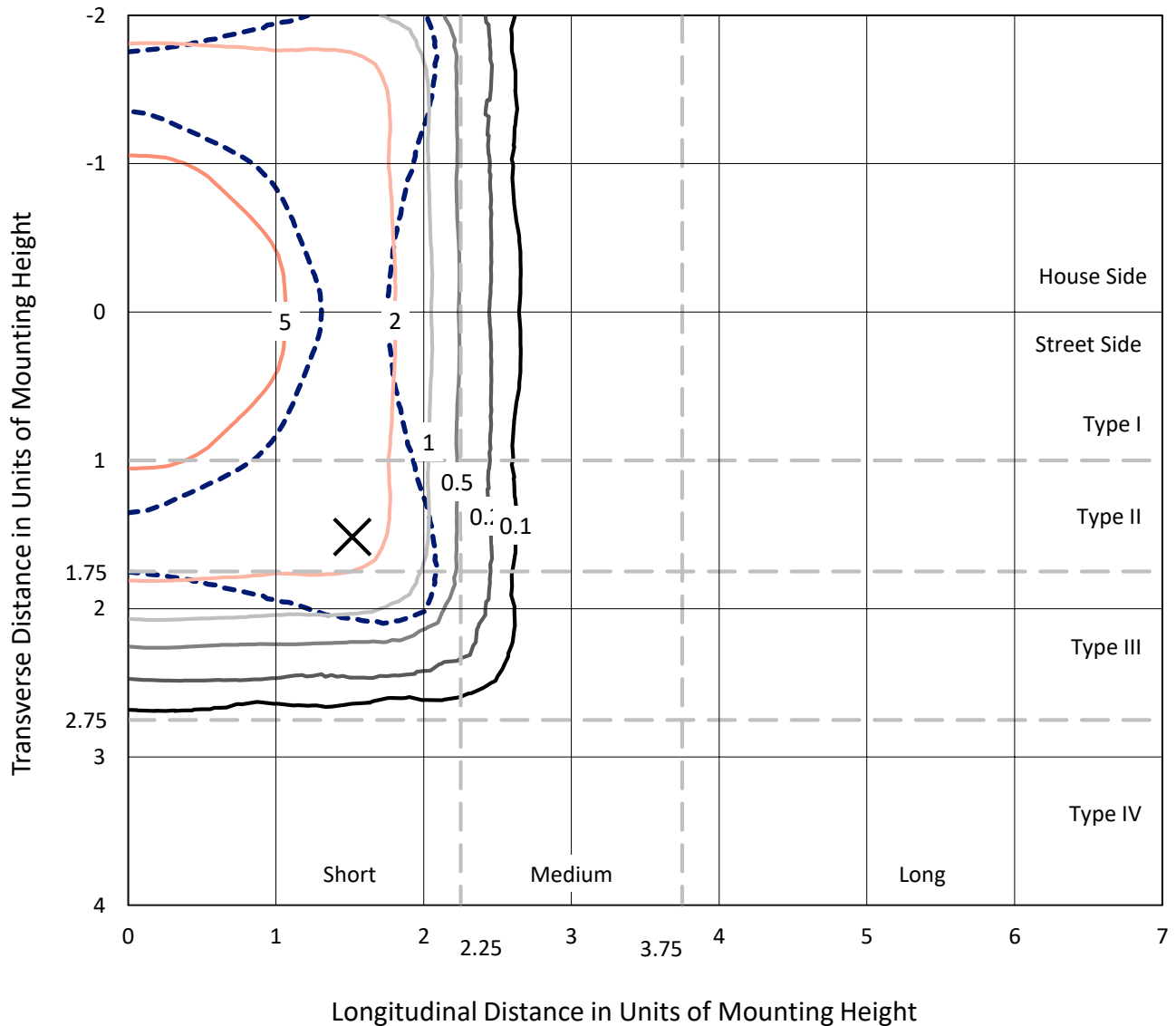


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Iso-Footcandle Lines of Horizontal Illumination

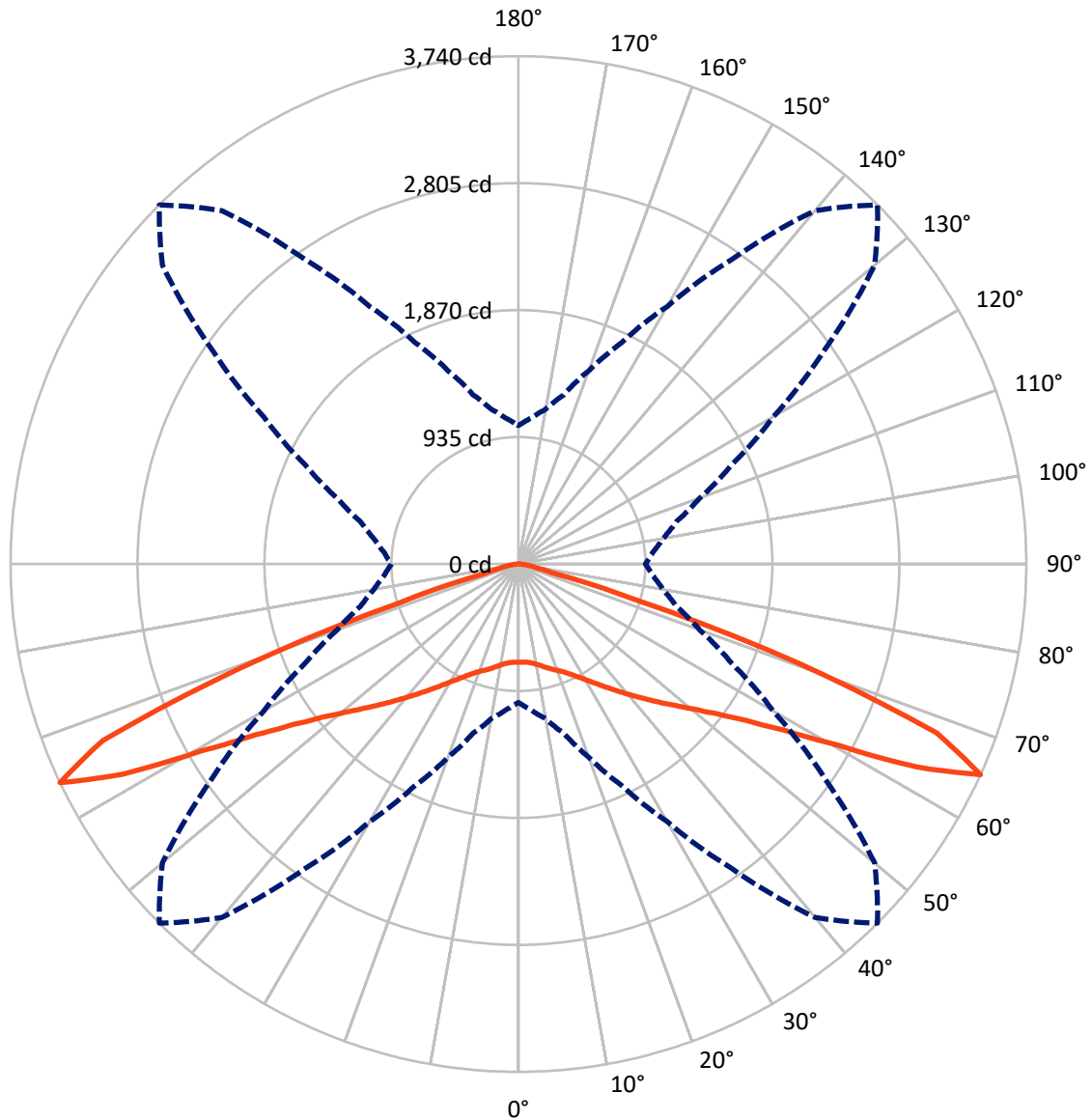
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 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	3179.8	0.0	3179.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3179.8	0.0	3179.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	6359.7	0.0	6359.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	1.1
10°-20°	225.8	3.6
20°-30°	421.2	6.6
30°-40°	710.2	11.2
40°-50°	1153.6	18.1
50°-60°	1807.4	28.4
60°-70°	1706.1	26.8
70°-80°	229.9	3.6
80°-90°	35.0	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°	6359.7	100.0
0°-180°	6359.7	100.0



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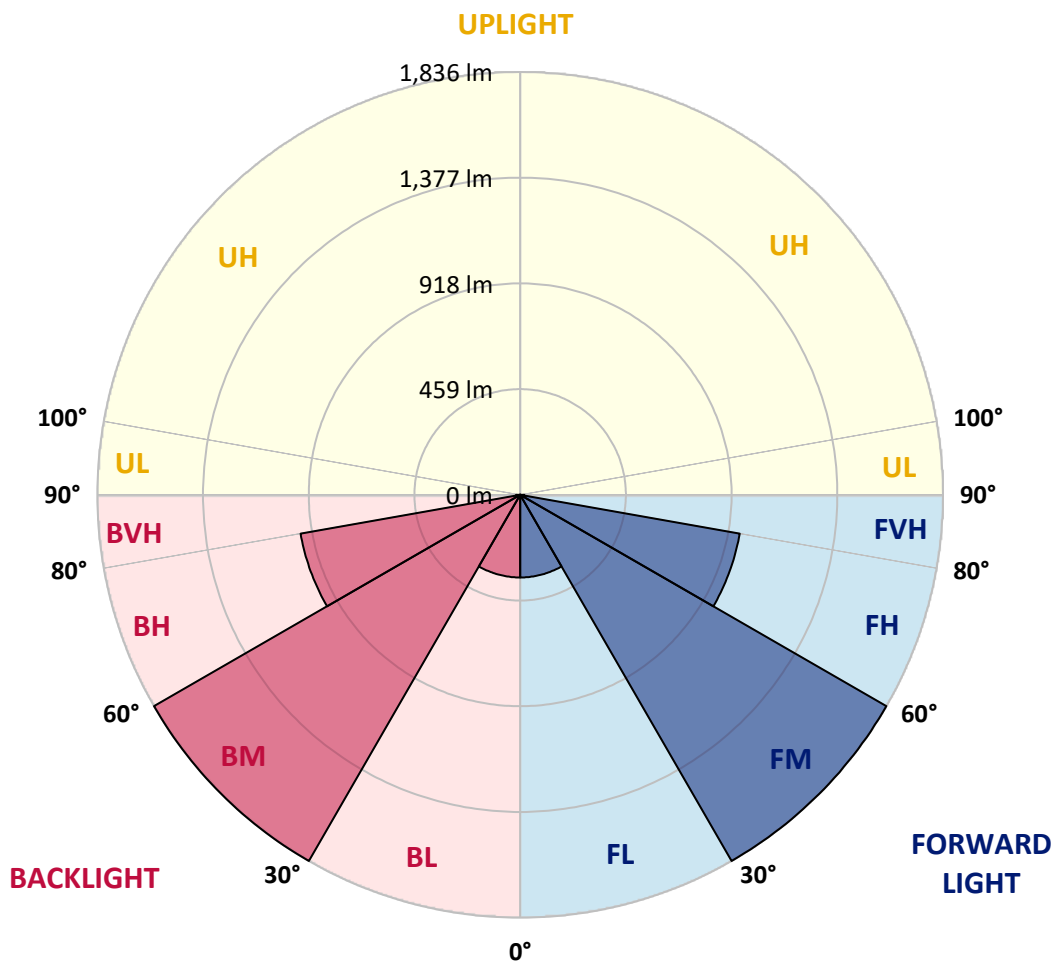
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	358.7	5.6			
FM	(30°-60°)	1835.6	28.9			
FH	(60°-80°)	968.0	15.2			G1/1800
FVH	(80°-90°)	17.5	0.3			G1/100
BL	(0°-30°)	358.7	5.6	B1/500		
BM	(30°-60°)	1835.6	28.9	B2/2500		
BH	(60°-80°)	968.0	15.2	B2/1000		G1/1800
BVH	(80°-90°)	17.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	723.4	723.4	723.4	723.4	723.4	723.4	723.4	723.4	723.4	723.4	723.4
2.5°	729.4	729.4	730.5	730.2	728.5	727.3	726.2	724.6	723.8	723.0	722.6
5°	733.4	733.4	734.5	734.1	732.9	731.3	730.5	729.4	728.1	727.3	727.7
7.5°	743.2	743.6	744.0	743.6	742.5	741.2	739.7	739.3	737.6	736.5	737.2
10°	758.3	758.3	758.6	759.0	758.3	755.4	755.4	754.7	753.1	751.6	752.0
12.5°	774.9	774.9	775.3	775.3	775.3	773.8	774.1	773.8	771.7	771.0	771.7
15°	791.2	791.6	791.6	792.4	792.4	792.8	794.3	794.3	793.5	793.1	793.1
17.5°	810.2	811.0	811.4	812.5	812.9	813.8	815.3	815.7	816.1	814.9	815.3
20°	835.5	836.0	837.1	837.5	839.1	839.1	839.8	839.4	838.7	837.1	837.1
22.5°	864.1	864.8	867.3	867.3	869.2	868.0	868.4	867.3	865.2	864.4	863.7
25°	901.3	902.4	904.5	903.7	904.5	902.4	902.4	902.4	901.3	900.1	899.7
27.5°	948.5	946.4	948.5	946.8	946.4	944.9	945.3	944.5	943.3	942.9	941.3
30°	997.6	995.2	996.4	996.8	995.9	995.5	994.0	992.8	990.8	991.2	990.0
32.5°	1053.8	1051.4	1052.6	1053.0	1052.2	1053.0	1052.6	1049.9	1047.5	1049.0	1049.0
35°	1120.7	1119.2	1122.4	1123.5	1121.2	1119.9	1118.4	1115.2	1111.6	1114.0	1114.4
37.5°	1201.1	1199.2	1201.6	1204.7	1200.4	1198.0	1191.6	1186.9	1184.6	1185.7	1187.3
40°	1284.8	1285.1	1291.9	1292.7	1288.0	1285.1	1278.8	1271.7	1265.0	1265.0	1266.9
42.5°	1372.7	1373.9	1381.8	1384.6	1383.0	1377.9	1369.1	1360.4	1351.7	1353.4	1355.7
45°	1472.1	1470.6	1478.9	1485.6	1484.4	1482.9	1474.6	1458.7	1450.7	1450.3	1454.3
47.5°	1576.8	1579.9	1588.6	1600.1	1599.7	1595.8	1585.1	1570.4	1555.8	1556.9	1561.7
50°	1698.8	1703.1	1717.8	1729.3	1730.8	1729.7	1717.0	1699.9	1679.4	1680.5	1686.8
52.5°	1808.2	1814.5	1831.5	1855.2	1870.0	1876.7	1868.3	1852.5	1831.5	1832.7	1839.4
55°	1907.2	1917.1	1942.4	1974.9	2004.3	2031.6	2043.9	2043.4	2028.0	2031.6	2040.3
57.5°	1969.4	1983.2	2021.7	2073.9	2132.1	2187.3	2234.8	2279.5	2289.5	2308.1	2308.1
60°	1885.8	1918.2	1969.4	2058.9	2173.4	2297.0	2430.9	2561.3	2645.2	2711.4	2675.7
62.5°	1574.7	1622.7	1694.4	1812.5	1990.8	2211.4	2480.5	2783.4	3099.6	3293.0	3151.1
65°	1019.0	1079.2	1157.2	1289.9	1514.6	1798.7	2190.4	2735.2	3396.8	3739.8	3422.9
67.5°	403.7	444.5	492.0	586.4	781.2	1060.2	1499.9	2171.8	2999.4	3323.1	2967.7
70°	192.9	199.7	208.8	228.9	277.7	374.8	602.6	1070.0	1839.4	2180.5	1795.5
72.5°	139.4	140.7	145.0	151.7	166.0	185.8	225.9	327.2	634.2	922.3	635.0
75°	105.8	107.4	109.8	113.3	120.8	130.3	145.4	174.3	217.1	250.4	216.7
77.5°	80.4	82.0	84.0	87.6	91.6	98.2	103.8	115.3	133.5	140.7	139.8
80°	58.6	61.4	64.5	67.7	70.5	73.7	74.1	79.6	89.9	96.7	94.7
82.5°	37.2	39.6	48.0	51.5	51.9	52.7	52.3	52.7	58.2	63.0	61.4
85°	23.7	25.4	29.7	33.7	32.8	34.5	34.5	33.7	31.3	26.9	32.1
87.5°	11.9	12.3	14.2	17.8	17.1	15.0	14.6	14.6	10.7	9.1	9.9
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°	723.4	723.4	723.4	723.4	723.4	723.4	723.4	723.4
2.5°	721.4	722.2	721.1	721.1	720.7	721.4	720.3	720.3
5°	727.0	728.1	727.7	727.7	728.5	729.4	729.0	728.5
7.5°	736.8	737.6	738.5	738.9	739.7	739.3	740.0	739.7
10°	752.0	751.2	752.3	751.2	751.6	750.7	751.2	751.2
12.5°	771.0	769.8	769.0	768.1	768.1	766.6	766.6	767.0
15°	792.8	790.7	789.2	788.4	787.6	787.6	786.4	787.2
17.5°	814.2	812.1	809.4	809.4	808.2	807.4	806.6	808.5
20°	836.7	834.7	833.2	832.8	830.3	829.6	830.0	832.4
22.5°	862.9	861.6	861.6	860.9	859.3	858.2	858.2	860.9
25°	898.2	895.7	896.1	896.5	895.7	895.7	895.0	896.9
27.5°	941.3	939.3	940.5	941.3	940.5	941.7	940.5	942.1
30°	992.1	990.8	992.1	993.2	991.2	991.2	990.4	991.6
32.5°	1052.6	1051.1	1051.8	1051.8	1049.0	1046.7	1043.5	1045.9
35°	1119.2	1117.2	1118.8	1119.9	1116.8	1114.4	1109.7	1111.6
37.5°	1192.5	1193.3	1195.2	1200.4	1199.6	1195.6	1192.0	1193.7
40°	1274.5	1278.5	1287.2	1290.8	1289.9	1286.0	1281.2	1282.0
42.5°	1367.2	1372.3	1381.5	1387.4	1384.6	1379.0	1373.1	1375.5
45°	1468.2	1476.1	1488.0	1493.9	1490.4	1484.4	1476.1	1480.5
47.5°	1575.1	1591.0	1606.9	1614.8	1613.6	1605.3	1594.6	1595.8
50°	1703.1	1724.1	1744.3	1752.2	1746.3	1733.6	1718.6	1718.1
52.5°	1862.4	1885.0	1901.7	1899.6	1885.0	1865.1	1848.2	1847.3
55°	2061.2	2068.8	2066.5	2049.4	2023.6	1992.7	1970.9	1967.3
57.5°	2301.7	2276.4	2239.1	2187.7	2129.8	2071.2	2031.6	2017.0
60°	2595.7	2481.2	2348.1	2207.8	2079.9	1984.0	1923.5	1886.5
62.5°	2838.6	2506.9	2209.5	1965.8	1766.5	1648.1	1565.2	1514.2
65°	2755.3	2165.9	1734.8	1420.7	1203.2	1080.7	993.2	935.0
67.5°	2128.7	1447.2	1007.1	698.1	529.3	448.1	391.4	354.6
70°	1073.2	555.1	336.3	237.3	202.9	188.5	179.1	173.5
72.5°	315.0	210.3	174.7	154.5	142.2	133.5	128.0	125.2
75°	174.3	142.2	125.6	114.1	106.2	100.2	96.7	94.3
77.5°	120.0	103.4	95.0	87.6	81.2	76.8	74.1	71.7
80°	84.0	75.7	72.1	68.1	63.4	59.8	55.9	54.3
82.5°	55.9	52.3	51.5	48.3	45.5	41.6	34.5	32.1
85°	32.8	32.5	32.5	31.3	29.4	25.8	20.6	20.6
87.5°	11.5	11.9	12.3	13.1	12.7	10.7	8.7	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)