

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: P271208

Luminaire Tested: **XNV-AF-01-LED-U-5NQ-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271208
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-7027-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 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: 5925.2 lumens
Efficiency: N/A
Efficacy: 89.8 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

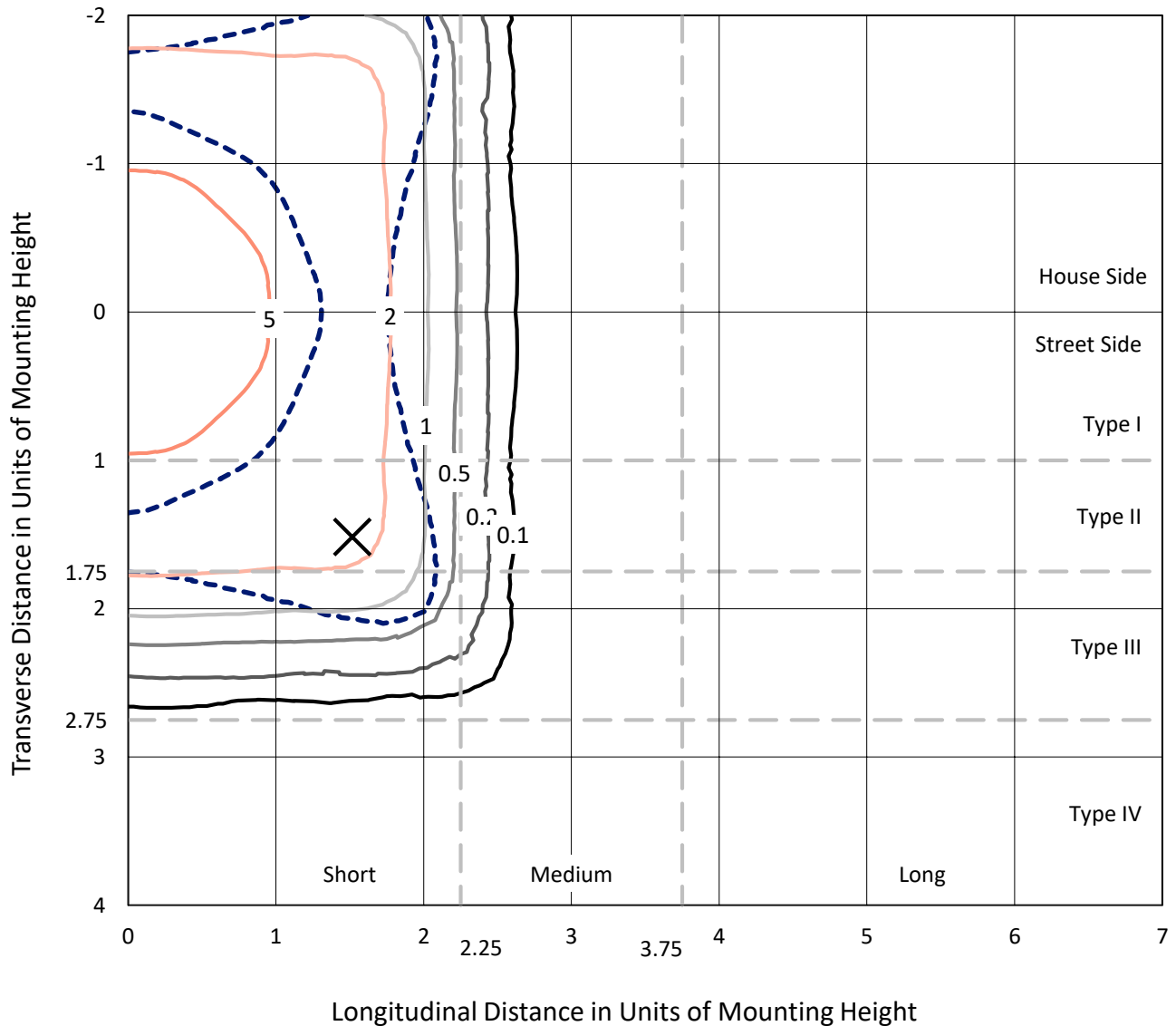
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

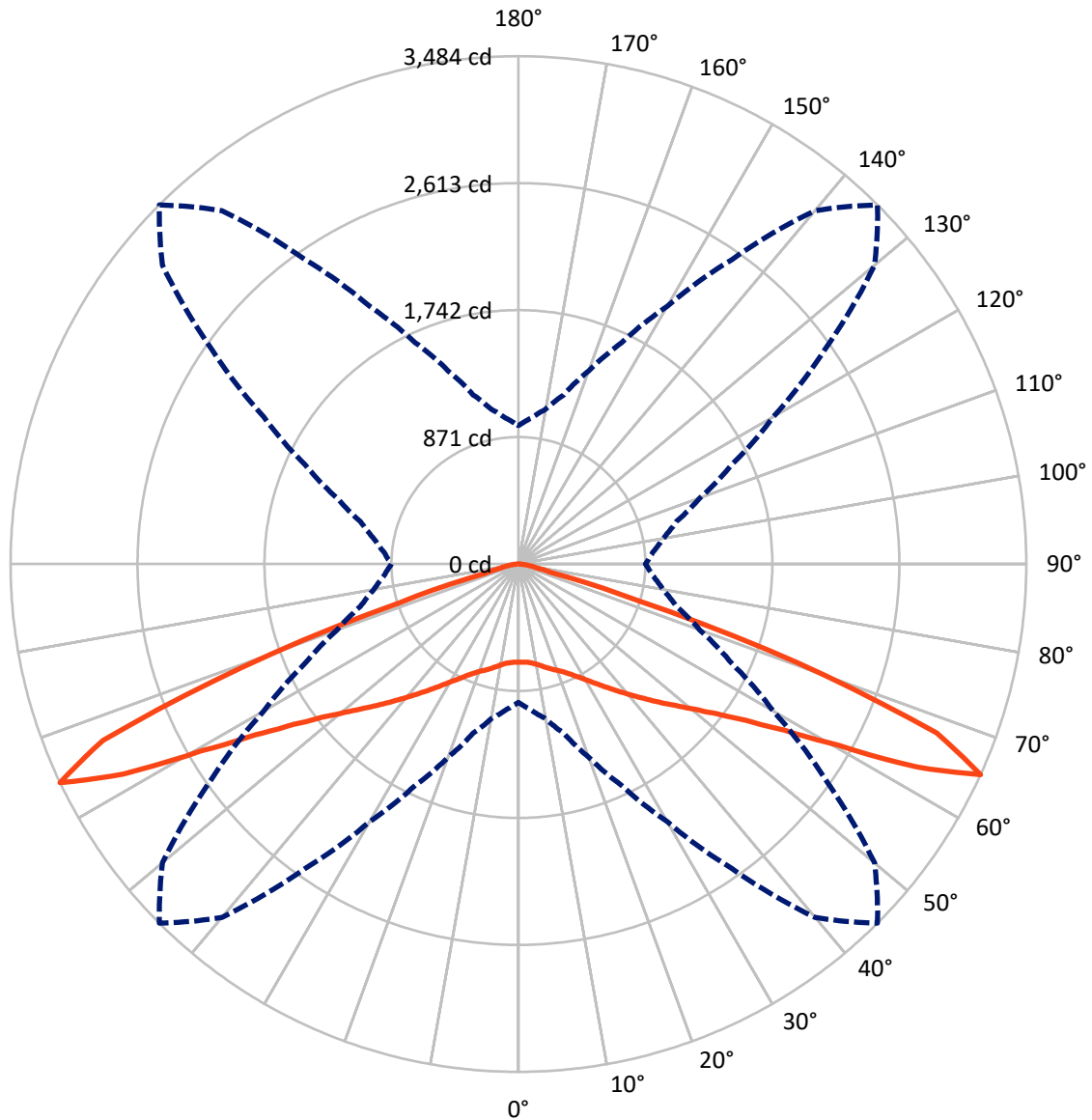
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.8 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	2962.6	0.0	2962.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2962.6	0.0	2962.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	5925.2	0.0	5925.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	1.1
10°-20°	210.4	3.6
20°-30°	392.4	6.6
30°-40°	661.7	11.2
40°-50°	1074.8	18.1
50°-60°	1683.9	28.4
60°-70°	1589.6	26.8
70°-80°	214.2	3.6
80°-90°	32.6	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°	5925.2	100.0
0°-180°	5925.2	100.0



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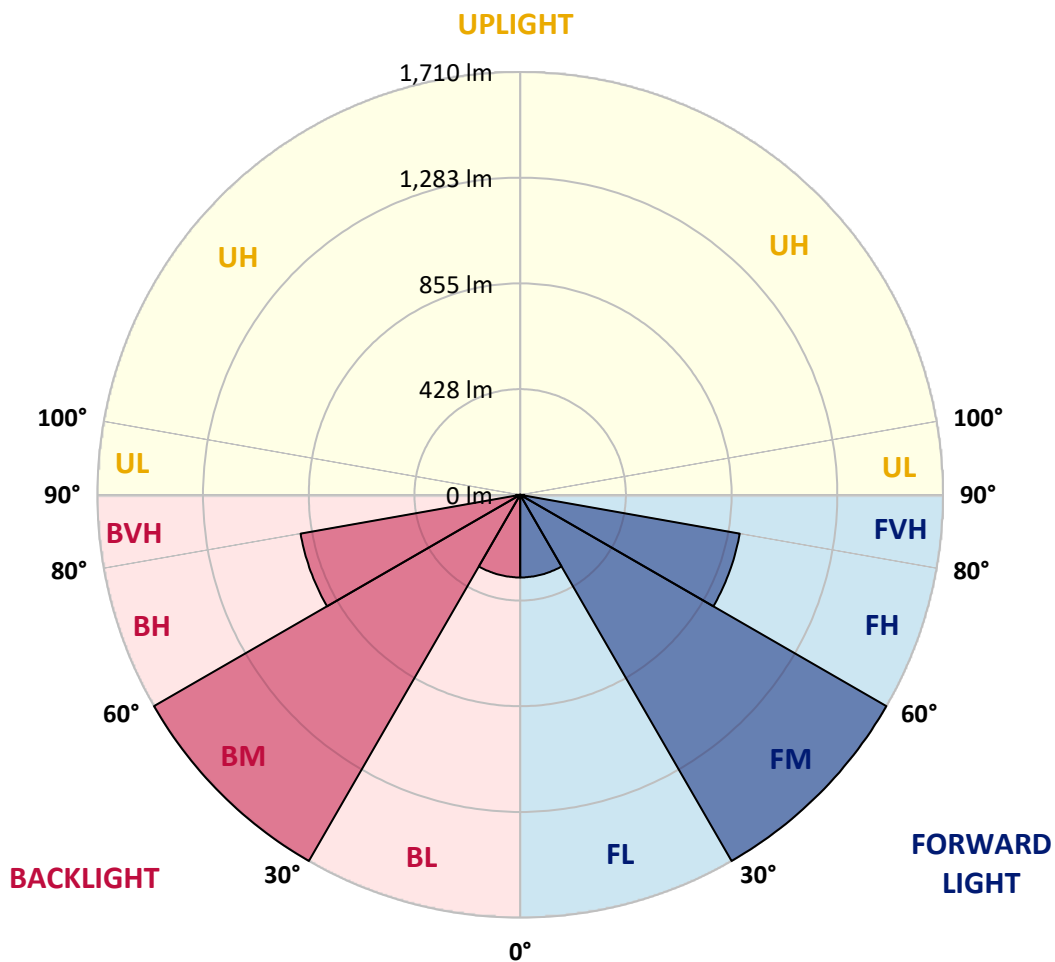
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	334.2	5.6			
FM (30°-60°)	1710.2	28.9			
FH (60°-80°)	901.9	15.2			G1/1800
FVH (80°-90°)	16.3	0.3			G1/100
BL (0°-30°)	334.2	5.6	B1/500		
BM (30°-60°)	1710.2	28.9	B2/2500		
BH (60°-80°)	901.9	15.2	B2/1000		G1/1800
BVH (80°-90°)	16.3	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°	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0
2.5°	679.5	679.5	680.6	680.2	678.8	677.7	676.6	675.0	674.4	673.5	673.2
5°	683.3	683.3	684.2	684.0	682.8	681.4	680.6	679.5	678.4	677.7	678.0
7.5°	692.5	692.9	693.2	692.9	691.8	690.5	689.1	688.7	687.3	686.1	686.9
10°	706.4	706.4	706.8	707.1	706.4	703.9	703.9	703.2	701.7	700.1	700.6
12.5°	722.0	722.0	722.3	722.3	722.3	720.9	721.2	720.9	719.1	718.3	719.1
15°	737.1	737.5	737.5	738.1	738.1	738.5	740.1	740.1	739.3	738.9	738.9
17.5°	754.8	755.6	756.0	757.0	757.5	758.1	759.5	760.0	760.3	759.2	759.5
20°	778.4	778.8	779.9	780.3	781.7	781.7	782.6	782.2	781.3	779.9	779.9
22.5°	805.1	805.8	807.9	807.9	809.8	808.7	809.1	807.9	806.0	805.4	804.6
25°	839.7	840.9	842.7	841.9	842.7	840.9	840.9	840.9	839.7	838.6	838.3
27.5°	883.7	881.7	883.7	882.1	881.7	880.2	880.7	879.9	878.8	878.5	876.9
30°	929.3	927.2	928.3	928.7	927.9	927.6	926.2	925.0	923.1	923.5	922.4
32.5°	981.8	979.6	980.7	981.0	980.3	981.0	980.7	978.2	975.9	977.4	977.4
35°	1044.2	1042.8	1045.6	1046.7	1044.5	1043.4	1041.9	1039.0	1035.7	1037.9	1038.4
37.5°	1119.1	1117.3	1119.5	1122.4	1118.4	1116.1	1110.2	1105.9	1103.6	1104.7	1106.3
40°	1197.0	1197.4	1203.6	1204.4	1200.0	1197.4	1191.4	1184.9	1178.5	1178.5	1180.5
42.5°	1278.9	1280.1	1287.5	1290.1	1288.6	1283.8	1275.7	1267.5	1259.3	1261.0	1263.0
45°	1371.6	1370.2	1377.9	1384.2	1383.0	1381.6	1373.8	1359.0	1351.7	1351.3	1355.0
47.5°	1469.1	1472.1	1480.0	1490.7	1490.5	1486.8	1476.9	1463.1	1449.4	1450.7	1455.1
50°	1582.8	1586.8	1600.4	1611.1	1612.5	1611.5	1599.7	1583.8	1564.7	1565.7	1571.7
52.5°	1684.6	1690.5	1706.4	1728.5	1742.2	1748.5	1740.6	1726.0	1706.4	1707.5	1713.7
55°	1776.8	1786.1	1809.7	1840.0	1867.2	1892.8	1904.1	1903.9	1889.4	1892.8	1901.0
57.5°	1834.8	1847.8	1883.6	1932.3	1986.5	2037.8	2082.1	2123.9	2133.0	2150.5	2150.5
60°	1756.9	1787.2	1834.8	1918.2	2024.9	2140.0	2264.8	2386.3	2464.5	2526.2	2492.9
62.5°	1467.2	1511.8	1578.6	1688.6	1854.7	2060.4	2311.0	2593.3	2888.0	3068.0	2935.9
65°	949.2	1005.5	1078.1	1201.8	1411.1	1675.8	2040.8	2548.3	3164.6	3484.3	3189.1
67.5°	376.1	414.1	458.5	546.3	727.8	987.7	1397.5	2023.4	2794.4	3096.1	2765.0
70°	179.8	185.9	194.6	213.3	258.7	349.3	561.4	996.9	1713.7	2031.5	1672.7
72.5°	130.0	131.1	135.0	141.4	154.7	173.2	210.5	304.9	590.9	859.3	591.7
75°	98.5	100.0	102.2	105.6	112.6	121.5	135.5	162.5	202.3	233.3	201.8
77.5°	74.9	76.4	78.2	81.6	85.2	91.5	96.7	107.3	124.3	131.1	130.3
80°	54.6	57.2	60.1	63.2	65.7	68.6	69.0	74.2	83.8	90.1	88.3
82.5°	34.8	36.9	44.6	48.0	48.4	49.0	48.7	49.0	54.3	58.7	57.2
85°	22.2	23.6	27.7	31.4	30.6	32.1	32.1	31.4	29.1	25.2	30.0
87.5°	11.0	11.5	13.2	16.6	15.9	14.1	13.7	13.7	10.1	8.4	9.3
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°	674.0	674.0	674.0	674.0	674.0	674.0	674.0	674.0
2.5°	672.1	672.9	671.8	671.8	671.5	672.1	671.0	671.0
5°	677.3	678.4	678.0	678.0	678.8	679.5	679.2	678.8
7.5°	686.6	687.3	688.0	688.5	689.1	688.7	689.4	689.1
10°	700.6	699.8	700.9	699.8	700.1	699.5	699.8	699.8
12.5°	718.3	717.1	716.4	715.7	715.7	714.2	714.2	714.6
15°	738.5	736.7	735.3	734.5	733.7	733.7	732.7	733.3
17.5°	758.4	756.6	754.0	754.0	753.0	752.2	751.5	753.4
20°	779.5	777.8	776.2	775.9	773.6	772.9	773.4	775.4
22.5°	804.0	802.7	802.7	802.0	800.6	799.5	799.5	802.0
25°	836.7	834.5	835.0	835.2	834.5	834.5	833.7	835.7
27.5°	876.9	875.2	876.2	876.9	876.2	877.4	876.2	877.7
30°	924.3	923.1	924.3	925.3	923.5	923.5	922.7	923.8
32.5°	980.7	979.2	980.1	980.1	977.4	975.2	972.2	974.4
35°	1042.8	1040.9	1042.4	1043.4	1040.4	1038.4	1033.9	1035.7
37.5°	1111.1	1111.7	1113.5	1118.4	1117.6	1114.0	1110.7	1112.1
40°	1187.4	1191.2	1199.1	1202.6	1201.8	1198.1	1193.7	1194.4
42.5°	1273.7	1278.6	1287.1	1292.7	1290.1	1284.8	1279.4	1281.5
45°	1367.8	1375.2	1386.4	1392.0	1388.6	1383.0	1375.2	1379.3
47.5°	1467.6	1482.4	1497.0	1504.5	1503.4	1495.6	1485.6	1486.8
50°	1586.8	1606.3	1625.2	1632.6	1627.0	1615.2	1601.1	1600.8
52.5°	1735.2	1756.1	1771.6	1769.8	1756.1	1737.7	1722.0	1721.2
55°	1920.4	1927.5	1925.2	1909.3	1885.5	1856.5	1836.2	1833.0
57.5°	2144.6	2120.9	2086.1	2038.3	1984.3	1929.6	1892.8	1879.2
60°	2418.3	2311.7	2187.7	2056.9	1937.9	1848.5	1791.9	1757.7
62.5°	2644.6	2335.8	2058.5	1831.6	1645.9	1535.5	1458.3	1410.7
65°	2567.1	2018.0	1616.3	1323.7	1120.9	1006.9	925.3	871.0
67.5°	1983.2	1348.4	938.3	650.4	493.1	417.4	364.7	330.3
70°	1000.0	517.2	313.4	221.2	189.0	175.7	166.8	161.7
72.5°	293.4	196.0	162.8	144.0	132.5	124.3	119.3	116.6
75°	162.5	132.5	117.0	106.3	99.0	93.3	90.1	87.9
77.5°	111.7	96.4	88.7	81.6	75.6	71.7	69.0	66.8
80°	78.2	70.4	67.2	63.5	59.1	55.8	52.0	50.6
82.5°	52.0	48.7	48.0	45.0	42.4	38.7	32.1	30.0
85°	30.6	30.3	30.3	29.1	27.3	24.0	19.3	19.3
87.5°	10.7	11.0	11.5	12.1	11.8	10.1	8.2	7.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)