

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: P271205

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271205
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
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 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: 5401.1 lumens
Efficiency: N/A
Efficacy: 93.1 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

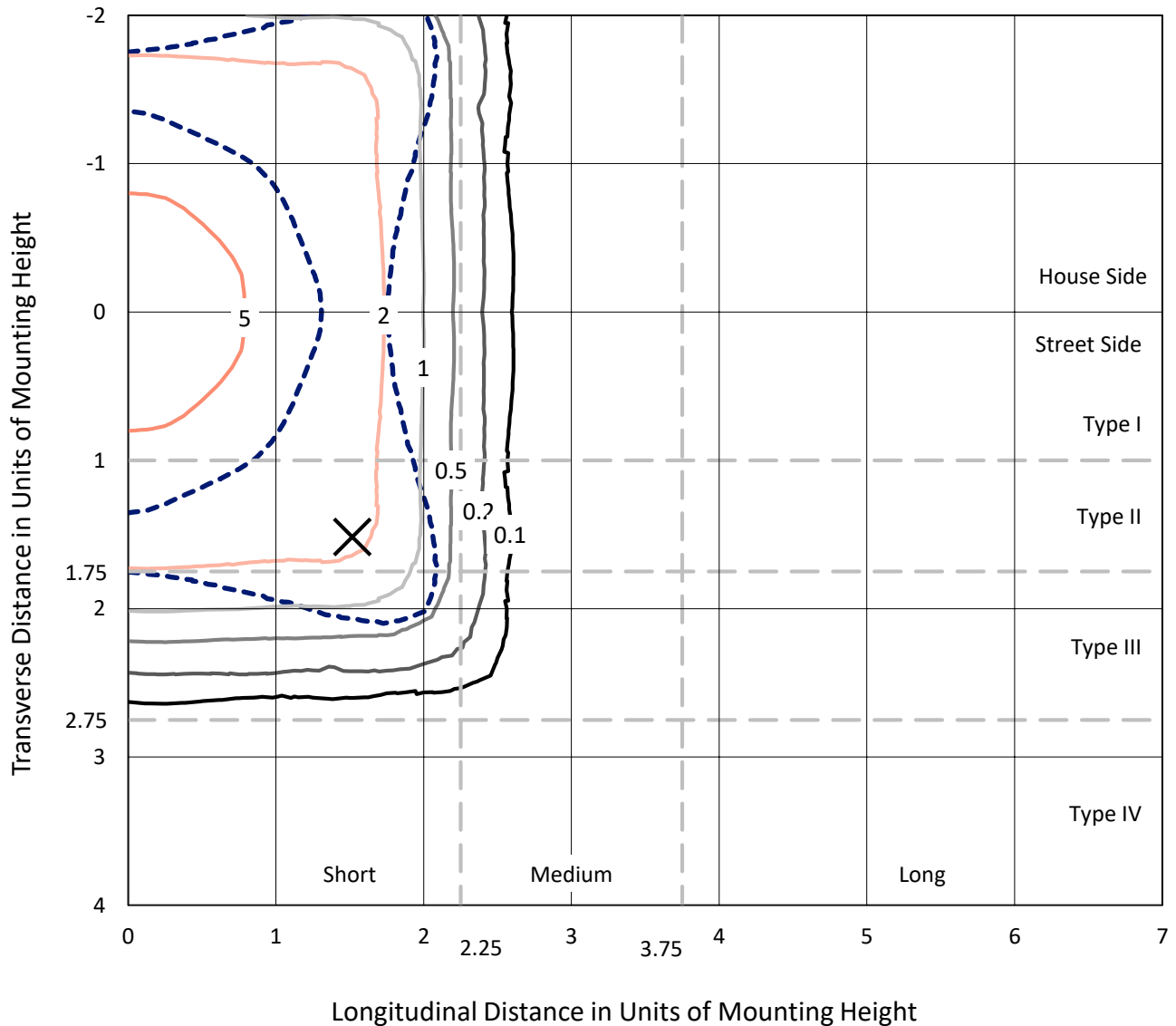
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

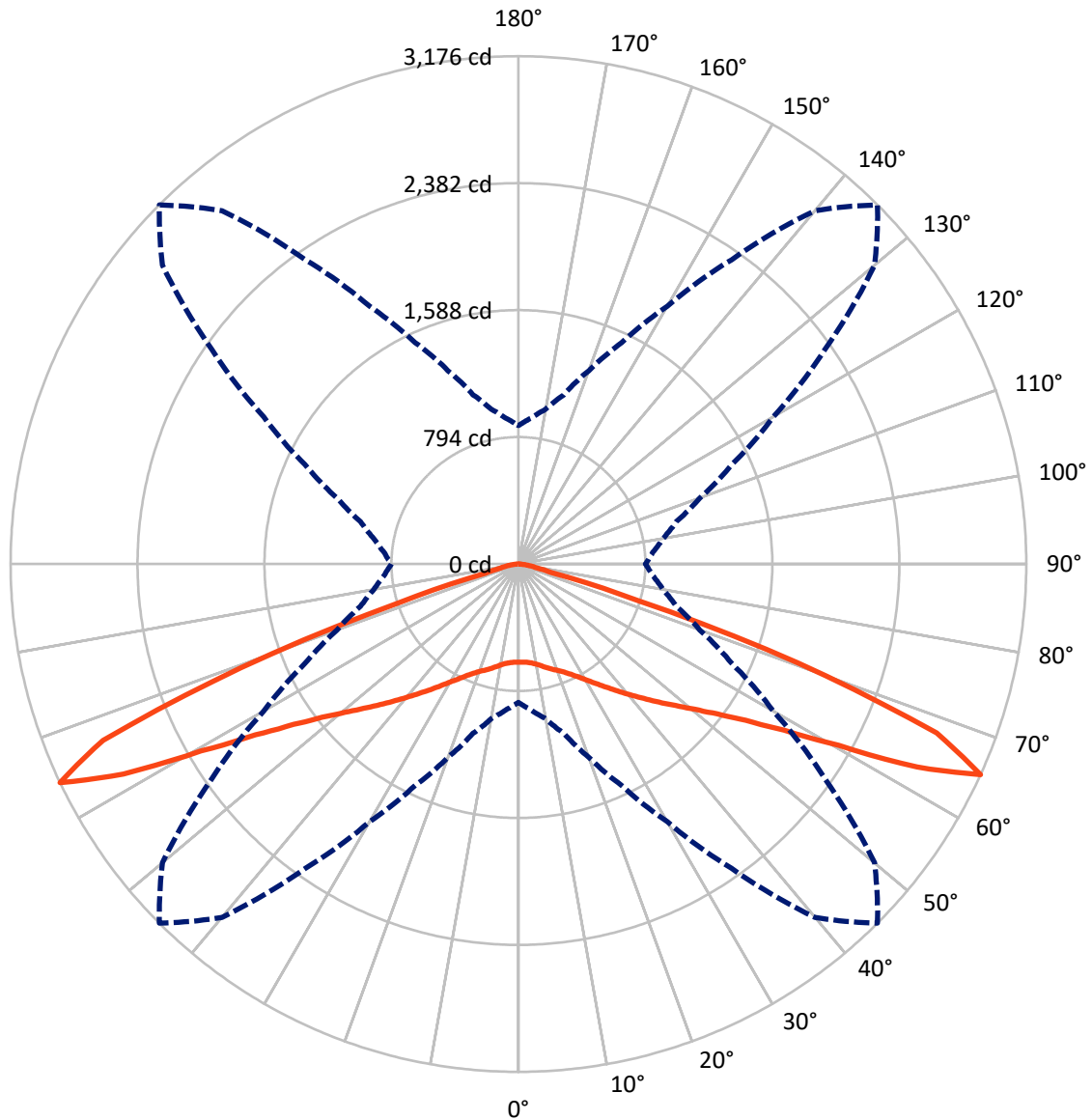
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.2 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	2700.5	0.0	2700.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2700.5	0.0	2700.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5401.1	0.0	5401.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	1.1
10°-20°	191.7	3.6
20°-30°	357.7	6.6
30°-40°	603.1	11.2
40°-50°	979.7	18.1
50°-60°	1535.0	28.4
60°-70°	1449.0	26.8
70°-80°	195.3	3.6
80°-90°	29.7	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°	5401.1	100.0
0°-180°	5401.1	100.0



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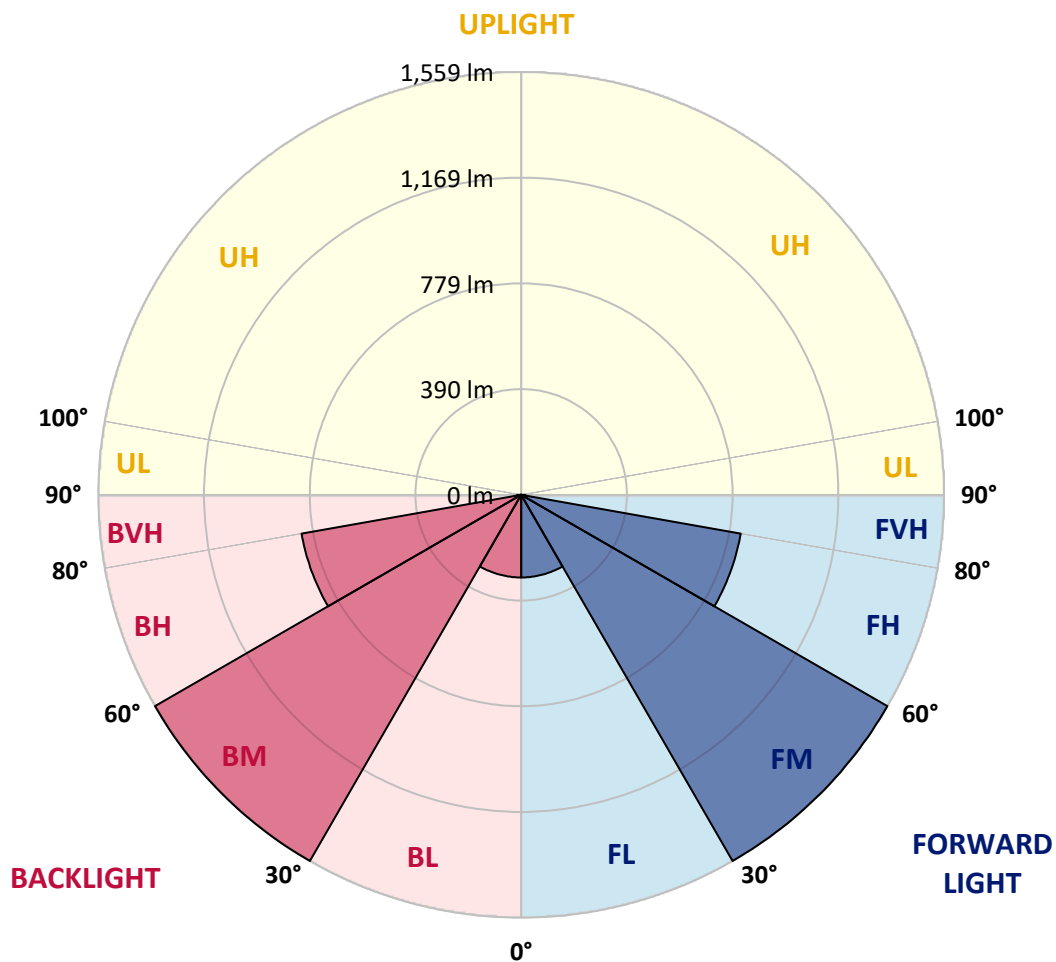
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	304.6	5.6			
FM	(30°-60°)	1558.9	28.9			
FH	(60°-80°)	822.1	15.2			G1/1800
FVH	(80°-90°)	14.9	0.3			G1/100
BL	(0°-30°)	304.6	5.6	B1/500		
BM	(30°-60°)	1558.9	28.9	B2/2500		
BH	(60°-80°)	822.1	15.2	B2/1000		G1/1800
BVH	(80°-90°)	14.9	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°	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.4
2.5°	619.4	619.4	620.4	620.1	618.8	617.8	616.7	615.3	614.7	614.0	613.7
5°	622.7	622.7	623.9	623.5	622.4	621.1	620.4	619.4	618.5	617.8	618.0
7.5°	631.1	631.5	631.9	631.5	630.5	629.5	628.2	627.8	626.5	625.5	626.2
10°	643.9	643.9	644.4	644.7	643.9	641.6	641.6	640.9	639.7	638.2	638.5
12.5°	658.1	658.1	658.5	658.5	658.5	657.1	657.4	657.1	655.5	654.8	655.5
15°	671.9	672.2	672.2	672.9	672.9	673.3	674.5	674.5	673.9	673.5	673.5
17.5°	688.0	688.7	689.1	690.1	690.3	691.1	692.5	692.8	693.1	692.1	692.5
20°	709.7	709.9	710.9	711.3	712.6	712.6	713.3	713.0	712.3	710.9	710.9
22.5°	733.8	734.5	736.5	736.5	738.1	737.1	737.5	736.5	734.9	734.2	733.5
25°	765.4	766.4	768.1	767.4	768.1	766.4	766.4	766.4	765.4	764.5	764.1
27.5°	805.5	803.9	805.5	804.2	803.9	802.5	802.7	802.0	801.1	800.7	799.4
30°	847.2	845.1	846.3	846.6	845.8	845.6	844.1	843.1	841.5	841.8	840.9
32.5°	895.0	892.9	894.0	894.4	893.6	894.4	894.0	891.6	889.6	890.8	890.8
35°	951.8	950.4	953.2	954.2	952.2	951.1	949.8	947.2	944.1	946.2	946.5
37.5°	1020.1	1018.5	1020.5	1023.2	1019.4	1017.4	1012.1	1008.0	1006.0	1007.0	1008.3
40°	1091.1	1091.5	1097.2	1097.9	1093.9	1091.5	1086.1	1080.0	1074.4	1074.4	1076.0
42.5°	1165.8	1166.8	1173.5	1175.9	1174.5	1170.2	1162.8	1155.4	1147.9	1149.3	1151.4
45°	1250.4	1249.0	1256.0	1261.7	1260.7	1259.3	1252.2	1238.9	1232.0	1231.8	1235.1
47.5°	1339.2	1341.8	1349.2	1359.0	1358.5	1355.3	1346.2	1333.8	1321.2	1322.2	1326.3
50°	1442.7	1446.5	1458.8	1468.5	1469.9	1469.0	1458.2	1443.8	1426.1	1427.2	1432.6
52.5°	1535.7	1541.0	1555.4	1575.6	1588.1	1593.9	1586.8	1573.3	1555.4	1556.5	1562.2
55°	1619.7	1628.1	1649.6	1677.2	1702.1	1725.4	1735.7	1735.4	1722.3	1725.4	1732.7
57.5°	1672.6	1684.3	1716.9	1761.3	1810.9	1857.5	1897.9	1935.9	1944.4	1960.2	1960.2
60°	1601.5	1629.2	1672.6	1748.6	1845.7	1950.8	2064.5	2175.2	2246.5	2302.6	2272.4
62.5°	1337.3	1378.1	1439.1	1539.2	1690.7	1878.0	2106.5	2363.9	2632.5	2796.7	2676.2
65°	865.3	916.5	982.7	1095.6	1286.3	1527.5	1860.3	2322.8	2884.7	3176.1	2906.9
67.5°	342.9	377.5	417.9	497.9	663.5	900.3	1273.8	1844.5	2547.4	2822.1	2520.4
70°	163.9	169.6	177.3	194.5	235.9	318.3	511.8	908.7	1562.2	1851.9	1524.9
72.5°	118.4	119.5	123.2	128.8	140.9	157.8	191.8	277.9	538.7	783.2	539.3
75°	89.8	91.2	93.2	96.2	102.6	110.8	123.4	148.0	184.4	212.7	184.1
77.5°	68.4	69.7	71.3	74.4	77.8	83.5	88.2	97.9	113.4	119.5	118.8
80°	49.8	52.1	54.8	57.5	59.8	62.6	62.9	67.6	76.4	82.0	80.4
82.5°	31.6	33.6	40.8	43.7	44.0	44.7	44.5	44.7	49.4	53.4	52.1
85°	20.2	21.5	25.2	28.6	27.9	29.3	29.3	28.6	26.6	22.8	27.3
87.5°	10.2	10.4	12.0	15.1	14.5	12.8	12.4	12.4	9.2	7.7	8.4
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°	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.4
2.5°	612.6	613.4	612.4	612.4	612.0	612.6	611.7	611.7
5°	617.3	618.5	618.0	618.0	618.8	619.4	619.1	618.8
7.5°	625.8	626.5	627.1	627.5	628.2	627.8	628.5	628.2
10°	638.5	637.9	639.0	637.9	638.2	637.5	637.9	637.9
12.5°	654.8	653.7	653.1	652.3	652.3	651.0	651.0	651.5
15°	673.3	671.6	670.2	669.5	668.9	668.9	667.9	668.6
17.5°	691.4	689.7	687.4	687.4	686.3	685.6	685.0	686.8
20°	710.6	708.9	707.5	707.2	705.2	704.5	704.9	706.8
22.5°	732.7	731.8	731.8	731.1	729.8	728.7	728.7	731.1
25°	762.8	760.8	761.0	761.5	760.8	760.8	760.1	761.8
27.5°	799.4	797.8	798.8	799.4	798.8	799.8	798.8	800.1
30°	842.5	841.5	842.5	843.5	841.8	841.8	841.2	842.2
32.5°	894.0	892.6	893.3	893.3	890.8	889.0	886.2	888.2
35°	950.4	948.8	950.1	951.1	948.5	946.5	942.4	944.1
37.5°	1012.7	1013.4	1015.1	1019.4	1018.8	1015.4	1012.4	1013.7
40°	1082.4	1085.7	1093.1	1096.2	1095.6	1092.1	1088.0	1088.7
42.5°	1161.1	1165.6	1173.2	1178.2	1175.9	1171.2	1166.2	1168.2
45°	1246.8	1253.7	1263.7	1268.8	1265.7	1260.7	1253.7	1257.4
47.5°	1337.8	1351.2	1364.6	1371.4	1370.4	1363.3	1354.3	1355.3
50°	1446.5	1464.2	1481.5	1488.1	1483.1	1472.3	1459.6	1459.1
52.5°	1581.6	1600.9	1615.1	1613.3	1600.9	1584.0	1569.6	1568.9
55°	1750.5	1756.9	1755.0	1740.5	1718.5	1692.3	1673.8	1670.8
57.5°	1954.8	1933.3	1901.6	1858.0	1808.7	1759.1	1725.4	1712.9
60°	2204.5	2107.2	1994.1	1875.0	1766.3	1685.0	1633.5	1602.1
62.5°	2410.7	2129.2	1876.4	1669.5	1500.3	1399.6	1329.3	1286.0
65°	2340.1	1839.4	1473.3	1206.6	1021.8	917.9	843.5	794.0
67.5°	1807.7	1229.2	855.2	592.8	449.5	380.5	332.5	301.1
70°	911.5	471.4	285.7	201.5	172.2	160.2	152.1	147.3
72.5°	267.4	178.7	148.4	131.2	120.8	113.4	108.7	106.3
75°	148.0	120.8	106.7	96.8	90.2	85.1	82.0	80.0
77.5°	102.0	87.9	80.8	74.4	69.0	65.2	62.9	60.8
80°	71.3	64.3	61.3	57.9	53.8	50.8	47.4	46.2
82.5°	47.4	44.5	43.7	41.1	38.6	35.4	29.3	27.3
85°	27.9	27.6	27.6	26.6	25.0	21.9	17.4	17.4
87.5°	9.7	10.2	10.4	11.0	10.8	9.2	7.4	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)