

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: P198494

Luminaire Tested: **XNV-AF-01-LED-U-5NQ-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198494  
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-7030  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 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: 5503 lumens  
Efficiency: N/A  
Efficacy: 94.9 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

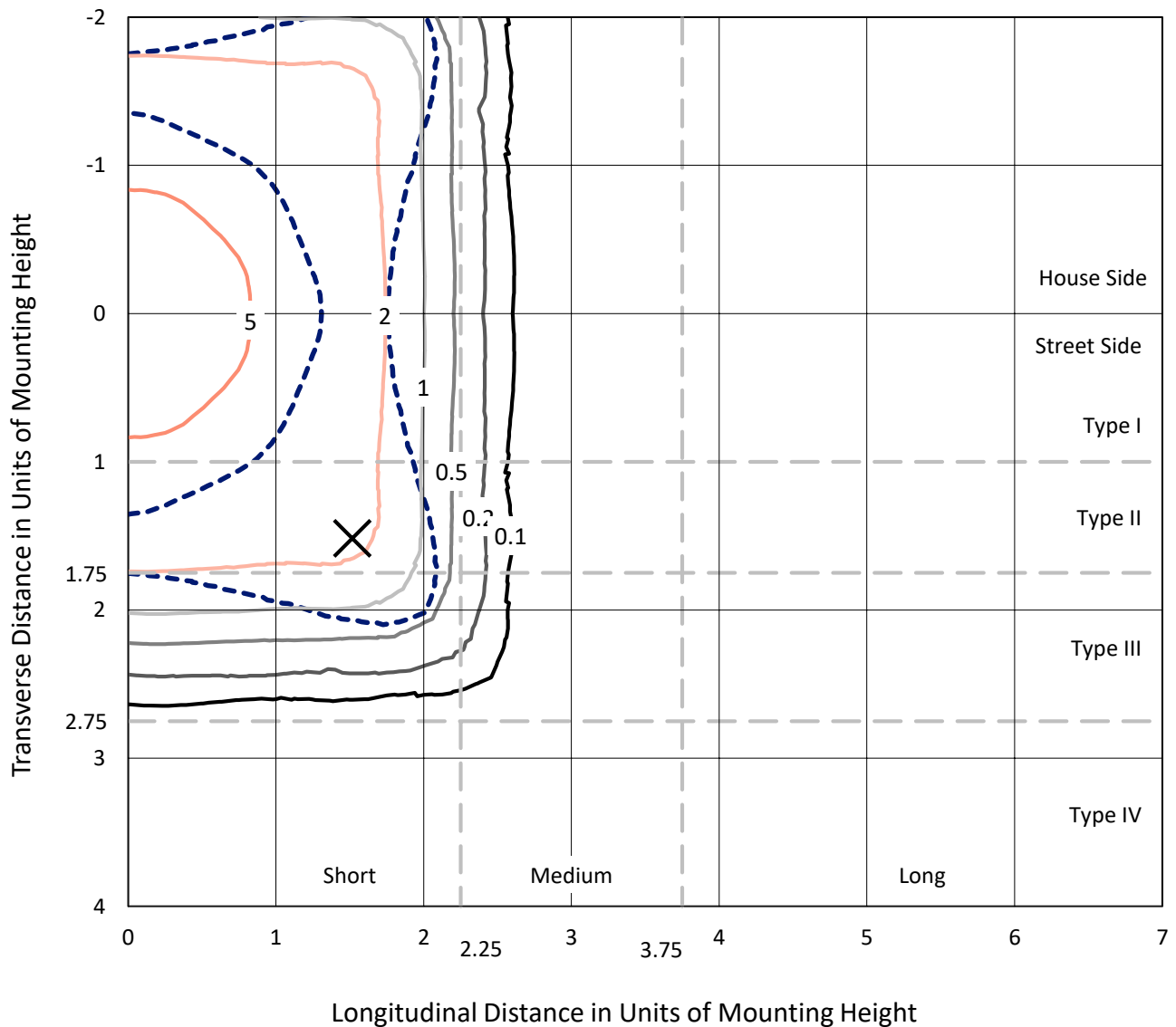
Input Watts (W): 58  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

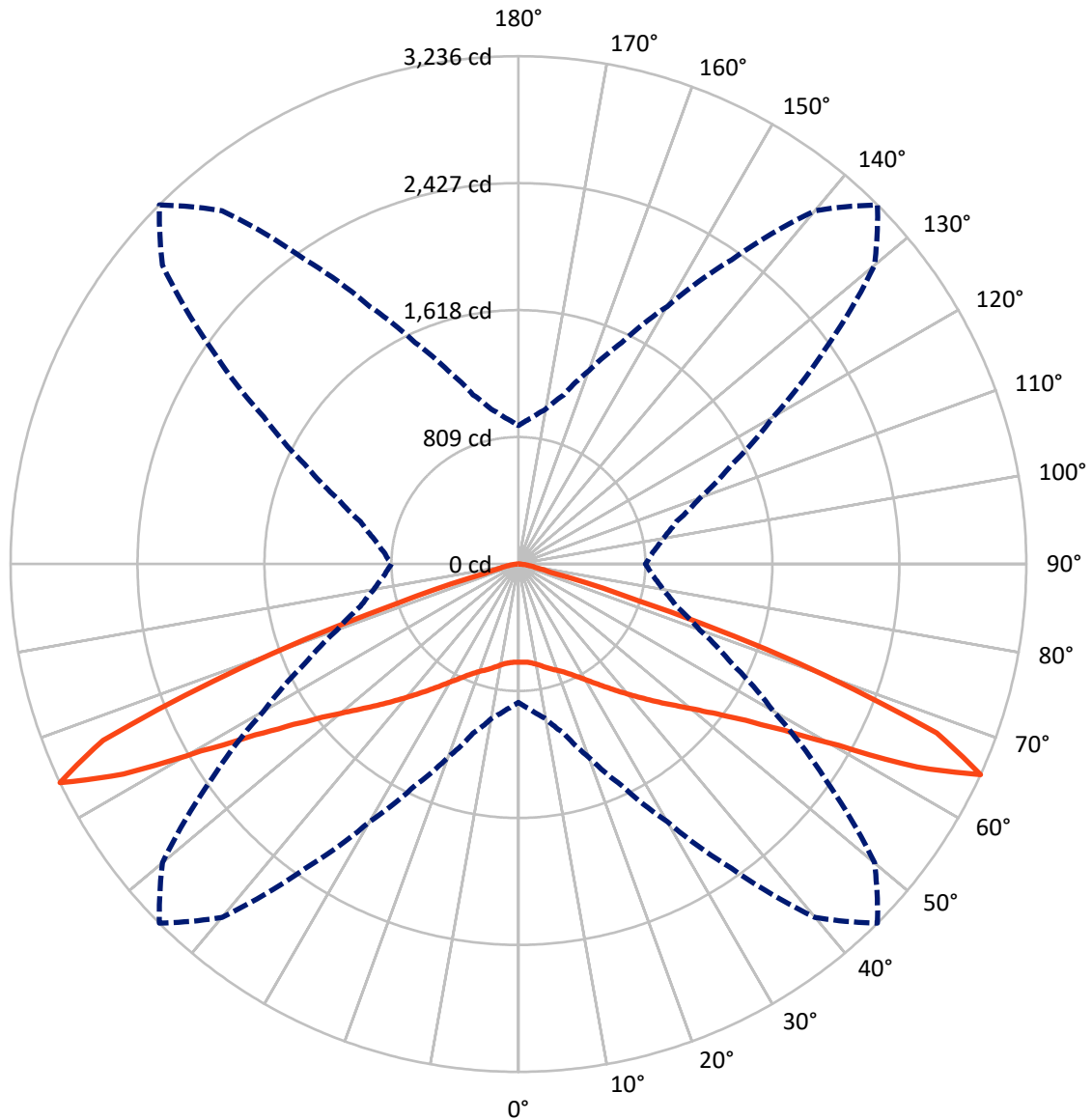
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.3 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
<b>House Side</b>	Lumens	2751.5	0.0	2751.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2751.5	0.0	2751.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5503.0	0.0	5503.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.0	1.1
10°-20°	195.4	3.6
20°-30°	364.5	6.6
30°-40°	614.5	11.2
40°-50°	998.2	18.1
50°-60°	1564.0	28.4
60°-70°	1476.3	26.8
70°-80°	199.0	3.6
80°-90°	30.3	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°	5503.0	100.0
0°-180°	5503.0	100.0

**Coefficient of Utilization**



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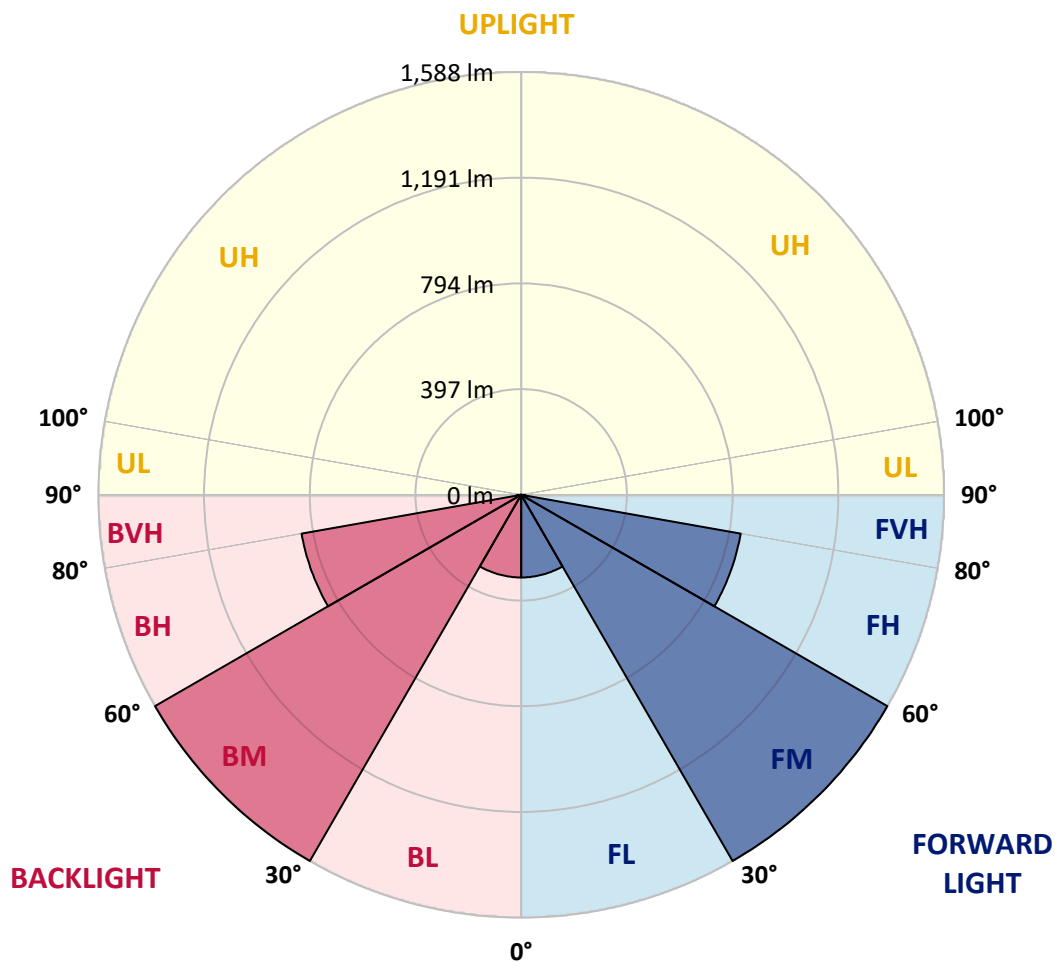
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	310.4	5.6			
FM	(30°-60°)	1588.3	28.9			
FH	(60°-80°)	837.6	15.2			G1/1800
FVH	(80°-90°)	15.2	0.3			G1/100
BL	(0°-30°)	310.4	5.6	B1/500		
BM	(30°-60°)	1588.3	28.9	B2/2500		
BH	(60°-80°)	837.6	15.2	B2/1000		G1/1800
BVH	(80°-90°)	15.2	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°	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
2.5°	631.1	631.1	632.1	631.8	630.4	629.4	628.4	627.0	626.3	625.6	625.3
5°	634.5	634.5	635.6	635.2	634.2	632.8	632.1	631.1	630.1	629.4	629.7
7.5°	643.1	643.4	643.8	643.4	642.4	641.4	640.0	639.7	638.3	637.3	638.0
10°	656.1	656.1	656.5	656.8	656.1	653.7	653.7	653.0	651.7	650.3	650.6
12.5°	670.5	670.5	670.9	670.9	670.9	669.5	669.8	669.5	667.8	667.1	667.8
15°	684.6	684.9	684.9	685.6	685.6	686.0	687.3	687.3	686.6	686.3	686.3
17.5°	701.0	701.7	702.1	703.1	703.4	704.1	705.5	705.8	706.2	705.1	705.5
20°	723.0	723.3	724.3	724.7	726.1	726.1	726.7	726.4	725.7	724.3	724.3
22.5°	747.7	748.3	750.4	750.4	752.1	751.1	751.4	750.4	748.7	748.0	747.3
25°	779.9	780.9	782.6	781.9	782.6	780.9	780.9	780.9	779.9	778.9	778.5
27.5°	820.7	819.0	820.7	819.3	819.0	817.6	817.9	817.2	816.2	815.9	814.5
30°	863.2	861.1	862.2	862.5	861.8	861.5	860.1	859.1	857.4	857.7	856.7
32.5°	911.9	909.8	910.8	911.2	910.5	911.2	910.8	908.4	906.4	907.7	907.7
35°	969.8	968.4	971.2	972.2	970.1	969.1	967.7	965.0	961.9	964.0	964.3
37.5°	1039.4	1037.7	1039.7	1042.5	1038.7	1036.6	1031.2	1027.0	1025.0	1026.0	1027.4
40°	1111.7	1112.1	1117.9	1118.6	1114.5	1112.1	1106.6	1100.4	1094.6	1094.6	1096.3
42.5°	1187.8	1188.8	1195.7	1198.1	1196.7	1192.3	1184.7	1177.2	1169.6	1171.0	1173.1
45°	1273.9	1272.5	1279.7	1285.5	1284.5	1283.1	1275.9	1262.2	1255.3	1255.0	1258.4
47.5°	1364.4	1367.1	1374.6	1384.6	1384.2	1380.8	1371.6	1358.9	1346.2	1347.2	1351.3
50°	1469.9	1473.7	1486.4	1496.3	1497.7	1496.7	1485.7	1471.0	1453.1	1454.2	1459.7
52.5°	1564.6	1570.0	1584.8	1605.4	1618.0	1623.9	1616.7	1603.0	1584.8	1585.8	1591.6
55°	1650.3	1658.8	1680.8	1708.9	1734.2	1757.9	1768.5	1768.2	1754.8	1757.9	1765.4
57.5°	1704.1	1716.1	1749.3	1794.6	1845.0	1892.6	1933.8	1972.5	1981.1	1997.2	1997.2
60°	1631.7	1659.9	1704.1	1781.6	1880.6	1987.6	2103.4	2216.2	2288.9	2346.1	2315.3
62.5°	1362.6	1404.1	1466.2	1568.3	1722.6	1913.5	2146.3	2408.5	2682.1	2849.4	2726.7
65°	881.7	933.8	1001.3	1116.2	1310.5	1556.3	1895.4	2366.7	2939.2	3236.1	2961.8
67.5°	349.3	384.6	425.8	507.3	676.0	917.3	1297.9	1879.3	2595.4	2875.4	2567.9
70°	166.9	172.8	180.7	198.1	240.3	324.3	521.4	925.9	1591.6	1886.8	1553.6
72.5°	120.7	121.7	125.5	131.3	143.6	160.8	195.4	283.2	548.8	798.0	549.5
75°	91.5	92.9	95.0	98.0	104.6	112.8	125.8	150.8	187.9	216.7	187.5
77.5°	69.6	71.0	72.7	75.8	79.2	85.0	89.8	99.8	115.5	121.7	121.0
80°	50.7	53.1	55.9	58.6	61.0	63.8	64.1	68.9	77.8	83.6	81.9
82.5°	32.2	34.3	41.5	44.6	44.9	45.6	45.3	45.6	50.4	54.5	53.1
85°	20.6	21.9	25.7	29.1	28.5	29.8	29.8	29.1	27.1	23.3	27.8
87.5°	10.3	10.6	12.3	15.4	14.7	13.0	12.7	12.7	9.3	7.9	8.6
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°	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
2.5°	624.2	624.9	623.9	623.9	623.6	624.2	623.2	623.2
5°	629.0	630.1	629.7	629.7	630.4	631.1	630.8	630.4
7.5°	637.6	638.3	639.0	639.3	640.0	639.7	640.4	640.0
10°	650.6	650.0	651.0	650.0	650.3	649.6	650.0	650.0
12.5°	667.1	666.1	665.4	664.7	664.7	663.3	663.3	663.7
15°	686.0	684.2	682.9	682.2	681.5	681.5	680.5	681.2
17.5°	704.5	702.7	700.3	700.3	699.3	698.6	697.9	699.7
20°	724.0	722.3	720.9	720.6	718.5	717.8	718.2	720.2
22.5°	746.6	745.6	745.6	744.9	743.5	742.5	742.5	744.9
25°	777.1	775.1	775.4	775.8	775.1	775.1	774.4	776.1
27.5°	814.5	812.8	813.8	814.5	813.8	814.8	813.8	815.2
30°	858.4	857.4	858.4	859.4	857.7	857.7	857.0	858.0
32.5°	910.8	909.5	910.1	910.1	907.7	905.7	902.9	905.0
35°	968.4	966.7	968.1	969.1	966.4	964.3	960.2	961.9
37.5°	1031.8	1032.5	1034.2	1038.7	1038.0	1034.6	1031.5	1032.9
40°	1102.8	1106.2	1113.8	1116.9	1116.2	1112.7	1108.6	1109.3
42.5°	1183.0	1187.5	1195.4	1200.5	1198.1	1193.3	1188.2	1190.2
45°	1270.4	1277.3	1287.6	1292.7	1289.6	1284.5	1277.3	1281.1
47.5°	1363.0	1376.7	1390.4	1397.3	1396.2	1389.0	1379.8	1380.8
50°	1473.7	1491.9	1509.4	1516.2	1511.1	1500.1	1487.1	1486.7
52.5°	1611.5	1631.1	1645.5	1643.7	1631.1	1613.9	1599.2	1598.5
55°	1783.6	1790.1	1788.1	1773.3	1751.0	1724.3	1705.4	1702.4
57.5°	1991.7	1969.8	1937.5	1893.0	1842.9	1792.2	1757.9	1745.2
60°	2246.1	2147.0	2031.8	1910.4	1799.7	1716.8	1664.3	1632.4
62.5°	2456.2	2169.3	1911.8	1701.0	1528.6	1426.1	1354.4	1310.2
65°	2384.2	1874.1	1501.1	1229.3	1041.1	935.2	859.4	809.0
67.5°	1841.9	1252.3	871.4	604.0	458.0	387.7	338.7	306.8
70°	928.7	480.3	291.0	205.3	175.5	163.2	154.9	150.1
72.5°	272.5	182.0	151.2	133.7	123.1	115.5	110.7	108.3
75°	150.8	123.1	108.7	98.7	91.9	86.7	83.6	81.6
77.5°	103.9	89.5	82.3	75.8	70.3	66.5	64.1	62.0
80°	72.7	65.5	62.4	59.0	54.8	51.8	48.3	47.0
82.5°	48.3	45.3	44.6	41.8	39.4	36.0	29.8	27.8
85°	28.5	28.1	28.1	27.1	25.4	22.3	17.8	17.8
87.5°	9.9	10.3	10.6	11.3	11.0	9.3	7.5	7.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)