

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: P198814

Luminaire Tested: **XNV-AF-01-LED-U-5NQ-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198814  
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-7050  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 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: 6217 lumens  
Efficiency: N/A  
Efficacy: 107.2 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

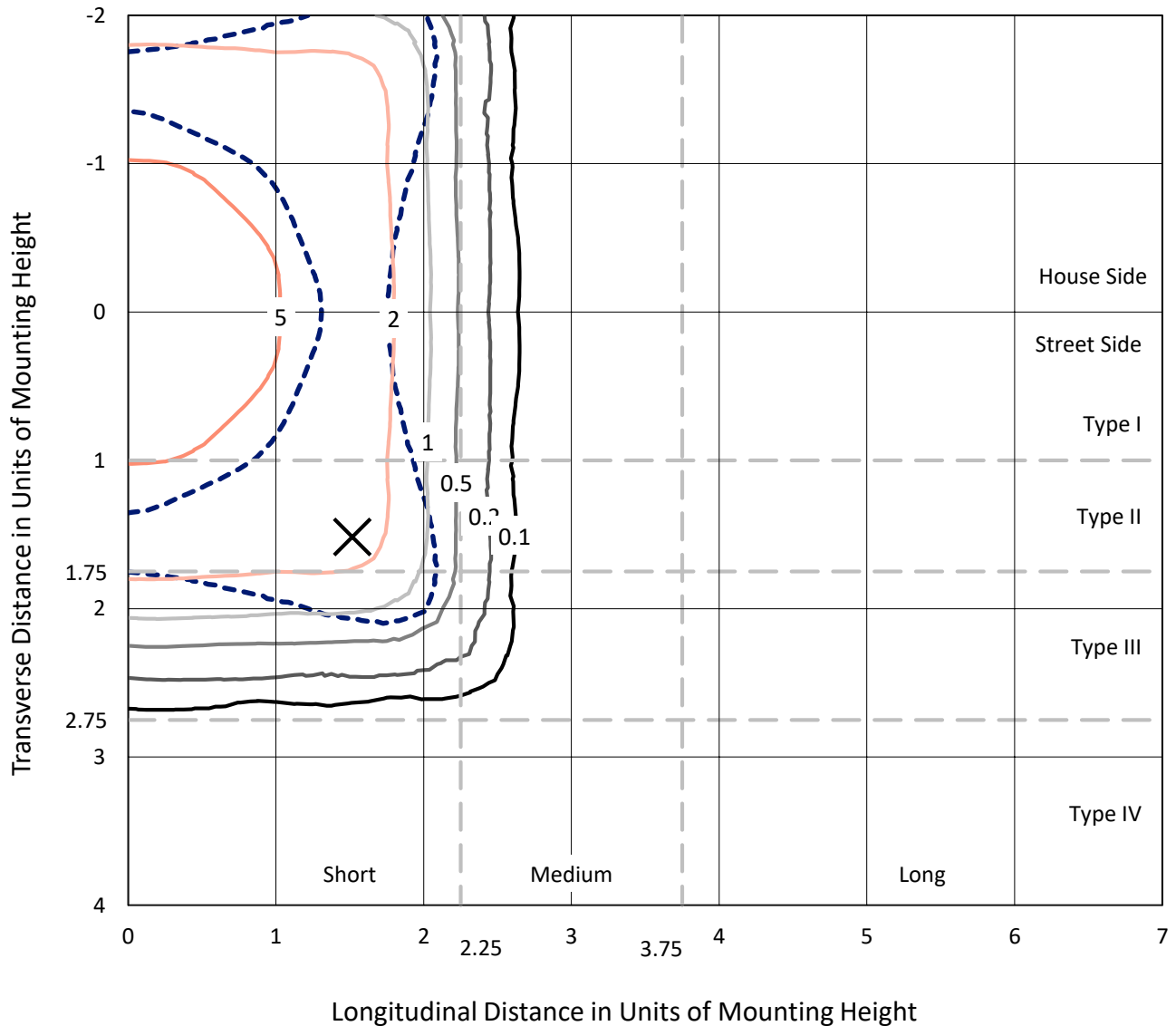




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### Iso-Footcandle Lines of Horizontal Illumination

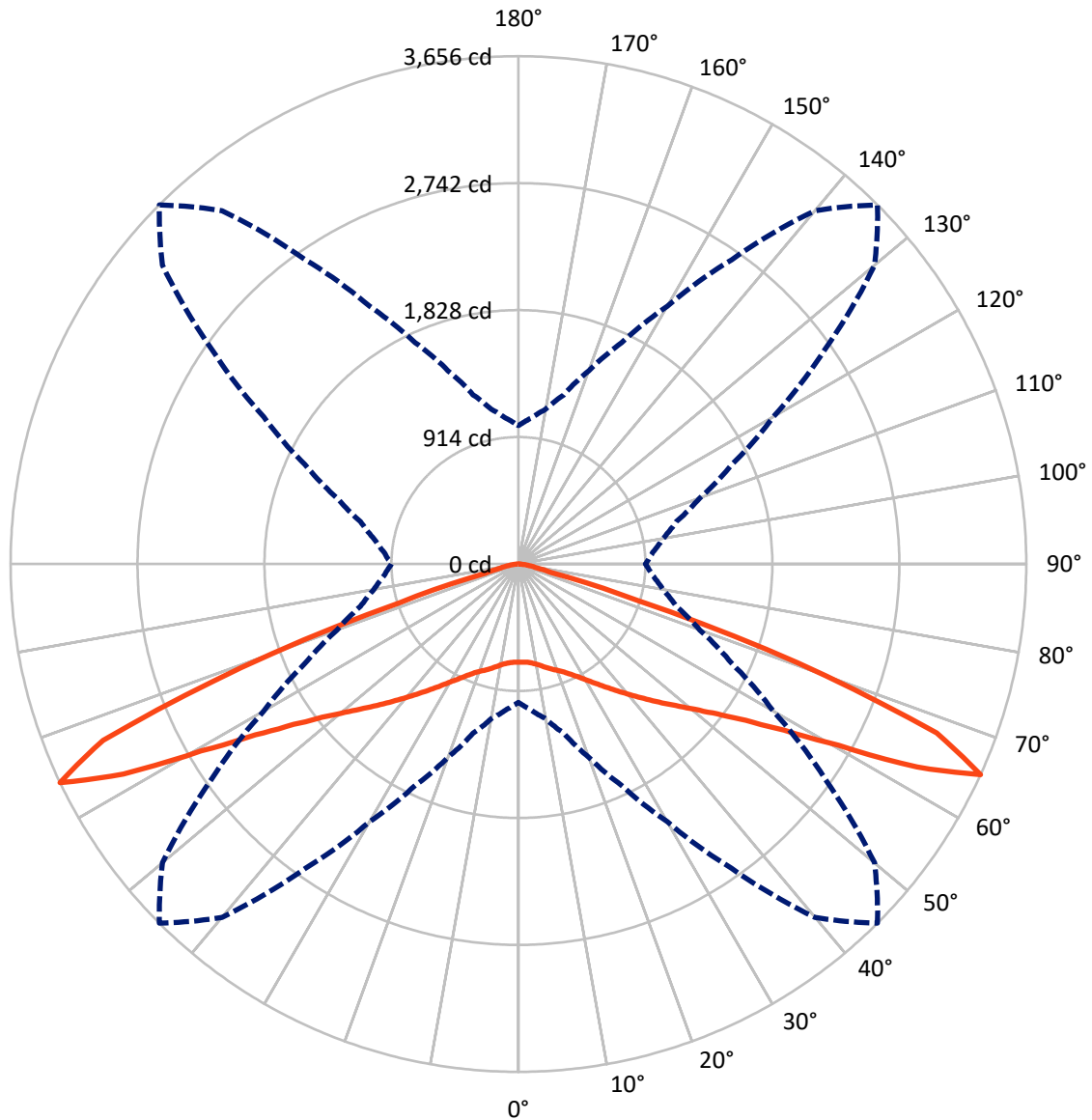
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.1 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	3108.5	0.0	3108.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3108.5	0.0	3108.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6217.0	0.0	6217.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.9	1.1
10°-20°	220.7	3.6
20°-30°	411.7	6.6
30°-40°	694.3	11.2
40°-50°	1127.7	18.1
50°-60°	1766.9	28.4
60°-70°	1667.8	26.8
70°-80°	224.8	3.6
80°-90°	34.2	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°	6217.0	100.0
0°-180°	6217.0	100.0

**Coefficient of Utilization**



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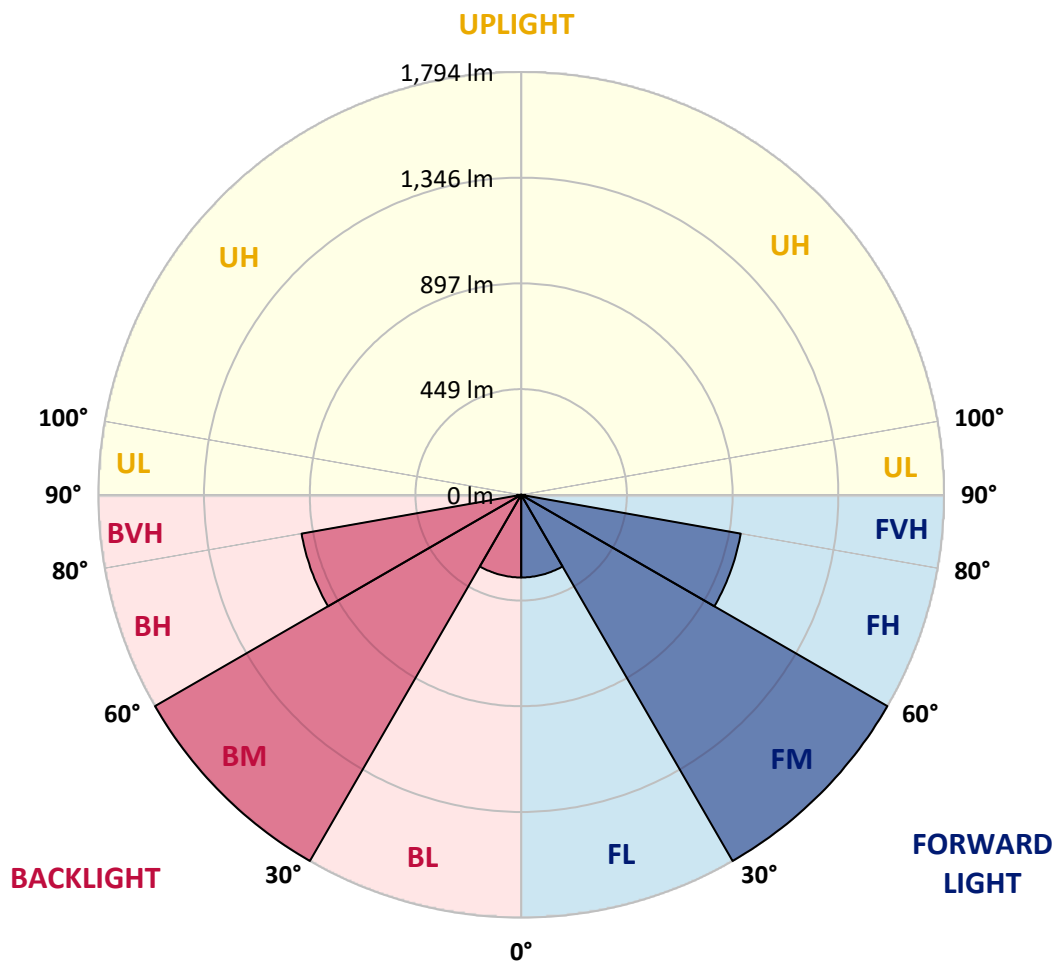
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	350.7	5.6			
FM	(30°-60°)	1794.4	28.9			
FH	(60°-80°)	946.3	15.2			G1/1800
FVH	(80°-90°)	17.1	0.3			G1/100
BL	(0°-30°)	350.7	5.6	B1/500		
BM	(30°-60°)	1794.4	28.9	B2/2500		
BH	(60°-80°)	946.3	15.2	B2/1000		G1/1800
BVH	(80°-90°)	17.1	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°	707.2	707.2	707.2	707.2	707.2	707.2	707.2	707.2	707.2	707.2	707.2
2.5°	713.0	713.0	714.1	713.8	712.2	711.0	709.9	708.3	707.6	706.8	706.4
5°	716.9	716.9	718.0	717.6	716.5	714.9	714.1	713.0	711.8	711.0	711.4
7.5°	726.5	726.9	727.3	726.9	725.8	724.6	723.1	722.7	721.1	720.0	720.7
10°	741.3	741.3	741.6	742.0	741.3	738.5	738.5	737.8	736.2	734.7	735.1
12.5°	757.5	757.5	757.9	757.9	757.9	756.4	756.7	756.4	754.4	753.7	754.4
15°	773.4	773.8	773.8	774.6	774.6	775.0	776.5	776.5	775.7	775.3	775.3
17.5°	792.0	792.8	793.2	794.3	794.7	795.5	797.0	797.4	797.8	796.6	797.0
20°	816.8	817.2	818.3	818.7	820.3	820.3	821.0	820.6	819.9	818.3	818.3
22.5°	844.7	845.4	847.8	847.8	849.7	848.5	848.9	847.8	845.8	845.0	844.3
25°	881.1	882.2	884.2	883.4	884.2	882.2	882.2	882.2	881.1	879.9	879.5
27.5°	927.2	925.2	927.2	925.6	925.2	923.7	924.1	923.3	922.1	921.7	920.2
30°	975.2	972.9	974.0	974.4	973.6	973.2	971.7	970.5	968.6	969.0	967.8
32.5°	1030.2	1027.8	1029.0	1029.4	1028.6	1029.4	1029.0	1026.3	1024.0	1025.5	1025.5
35°	1095.6	1094.1	1097.2	1098.3	1096.0	1094.8	1093.3	1090.2	1086.7	1089.0	1089.4
37.5°	1174.2	1172.3	1174.6	1177.7	1173.5	1171.1	1164.9	1160.3	1158.0	1159.1	1160.7
40°	1256.0	1256.3	1262.9	1263.7	1259.1	1256.3	1250.1	1243.2	1236.6	1236.6	1238.5
42.5°	1341.9	1343.1	1350.8	1353.5	1352.0	1347.0	1338.4	1329.9	1321.4	1323.0	1325.3
45°	1439.1	1437.6	1445.7	1452.3	1451.1	1449.6	1441.5	1426.0	1418.2	1417.8	1421.7
47.5°	1541.4	1544.5	1553.0	1564.2	1563.8	1560.0	1549.5	1535.2	1520.9	1522.0	1526.7
50°	1660.7	1664.9	1679.3	1690.5	1692.0	1690.9	1678.5	1661.8	1641.7	1642.8	1649.0
52.5°	1767.6	1773.8	1790.4	1813.6	1828.0	1834.6	1826.4	1810.9	1790.4	1791.6	1798.1
55°	1864.4	1874.1	1898.8	1930.6	1959.3	1986.0	1998.0	1997.6	1982.5	1986.0	1994.5
57.5°	1925.2	1938.7	1976.3	2027.4	2084.3	2138.2	2184.7	2228.4	2238.1	2256.3	2256.3
60°	1843.5	1875.2	1925.2	2012.7	2124.6	2245.5	2376.4	2503.8	2585.9	2650.6	2615.7
62.5°	1539.4	1586.3	1656.4	1771.8	1946.1	2161.8	2424.8	2721.0	3030.1	3219.1	3080.4
65°	996.1	1055.0	1131.2	1261.0	1480.6	1758.3	2141.3	2673.8	3320.6	3655.9	3346.1
67.5°	394.6	434.5	481.0	573.2	763.7	1036.4	1466.2	2123.1	2932.1	3248.5	2901.1
70°	188.6	195.2	204.1	223.8	271.5	366.4	589.1	1046.0	1798.1	2131.6	1755.2
72.5°	136.3	137.5	141.7	148.3	162.3	181.6	220.8	319.9	620.0	901.6	620.8
75°	103.4	105.0	107.3	110.8	118.1	127.4	142.1	170.4	212.2	244.8	211.8
77.5°	78.6	80.2	82.1	85.6	89.5	96.0	101.5	112.7	130.5	137.5	136.7
80°	57.3	60.0	63.1	66.2	68.9	72.0	72.4	77.8	87.9	94.5	92.6
82.5°	36.4	38.7	46.9	50.3	50.7	51.5	51.1	51.5	56.9	61.6	60.0
85°	23.2	24.8	29.0	32.9	32.1	33.7	33.7	32.9	30.6	26.3	31.4
87.5°	11.6	12.0	13.9	17.4	16.7	14.7	14.3	14.3	10.5	8.9	9.7
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°	707.2	707.2	707.2	707.2	707.2	707.2	707.2	707.2
2.5°	705.2	706.0	704.9	704.9	704.5	705.2	704.1	704.1
5°	710.7	711.8	711.4	711.4	712.2	713.0	712.6	712.2
7.5°	720.3	721.1	721.9	722.3	723.1	722.7	723.4	723.1
10°	735.1	734.3	735.4	734.3	734.7	733.9	734.3	734.3
12.5°	753.7	752.5	751.7	750.9	750.9	749.4	749.4	749.8
15°	775.0	773.0	771.5	770.7	769.9	769.9	768.8	769.5
17.5°	795.9	793.9	791.2	791.2	790.1	789.3	788.5	790.4
20°	817.9	816.0	814.5	814.1	811.7	811.0	811.4	813.7
22.5°	843.5	842.3	842.3	841.6	840.0	838.9	838.9	841.6
25°	878.0	875.6	876.0	876.4	875.6	875.6	874.9	876.8
27.5°	920.2	918.2	919.4	920.2	919.4	920.6	919.4	921.0
30°	969.8	968.6	969.8	970.9	969.0	969.0	968.2	969.4
32.5°	1029.0	1027.5	1028.2	1028.2	1025.5	1023.2	1020.1	1022.4
35°	1094.1	1092.1	1093.7	1094.8	1091.7	1089.4	1084.8	1086.7
37.5°	1165.7	1166.5	1168.4	1173.5	1172.7	1168.8	1165.3	1166.9
40°	1245.9	1249.8	1258.3	1261.8	1261.0	1257.1	1252.5	1253.2
42.5°	1336.5	1341.5	1350.5	1356.3	1353.5	1348.1	1342.3	1344.6
45°	1435.3	1443.0	1454.6	1460.4	1457.0	1451.1	1443.0	1447.3
47.5°	1539.8	1555.3	1570.8	1578.6	1577.4	1569.3	1558.8	1560.0
50°	1664.9	1685.4	1705.2	1712.9	1707.1	1694.7	1680.0	1679.6
52.5°	1820.6	1842.7	1859.0	1857.0	1842.7	1823.3	1806.7	1805.9
55°	2015.0	2022.4	2020.1	2003.4	1978.2	1948.0	1926.7	1923.2
57.5°	2250.1	2225.3	2188.9	2138.6	2082.0	2024.7	1986.0	1971.7
60°	2537.5	2425.5	2295.4	2158.3	2033.2	1939.5	1880.3	1844.2
62.5°	2774.9	2450.7	2159.9	1921.7	1726.9	1611.1	1530.1	1480.2
65°	2693.5	2117.3	1695.9	1388.8	1176.2	1056.5	970.9	914.0
67.5°	2080.9	1414.7	984.5	682.4	517.4	438.0	382.6	346.6
70°	1049.1	542.6	328.8	232.0	198.3	184.3	175.1	169.6
72.5°	307.9	205.6	170.8	151.0	139.0	130.5	125.1	122.4
75°	170.4	139.0	122.8	111.5	103.8	98.0	94.5	92.2
77.5°	117.3	101.1	92.9	85.6	79.4	75.1	72.4	70.1
80°	82.1	74.0	70.5	66.6	62.0	58.5	54.6	53.1
82.5°	54.6	51.1	50.3	47.2	44.5	40.7	33.7	31.4
85°	32.1	31.8	31.8	30.6	28.7	25.2	20.1	20.1
87.5°	11.2	11.6	12.0	12.8	12.4	10.5	8.5	8.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)