

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: P199131

Luminaire Tested: **XNV2-AF-02-LED-U-5NQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199131
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: XNV2-AF-02-LED-U-5NQ-8030-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6665 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

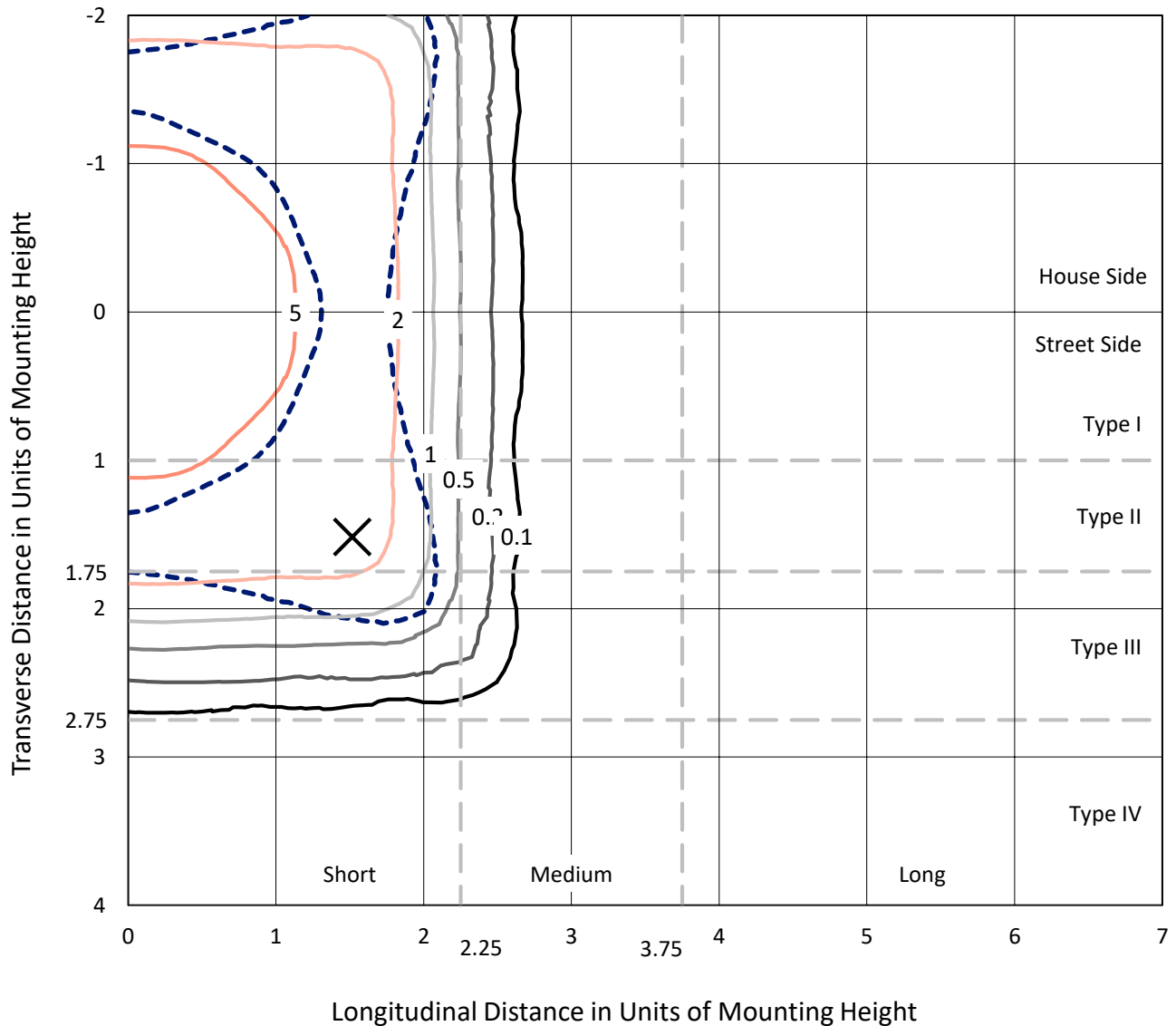
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

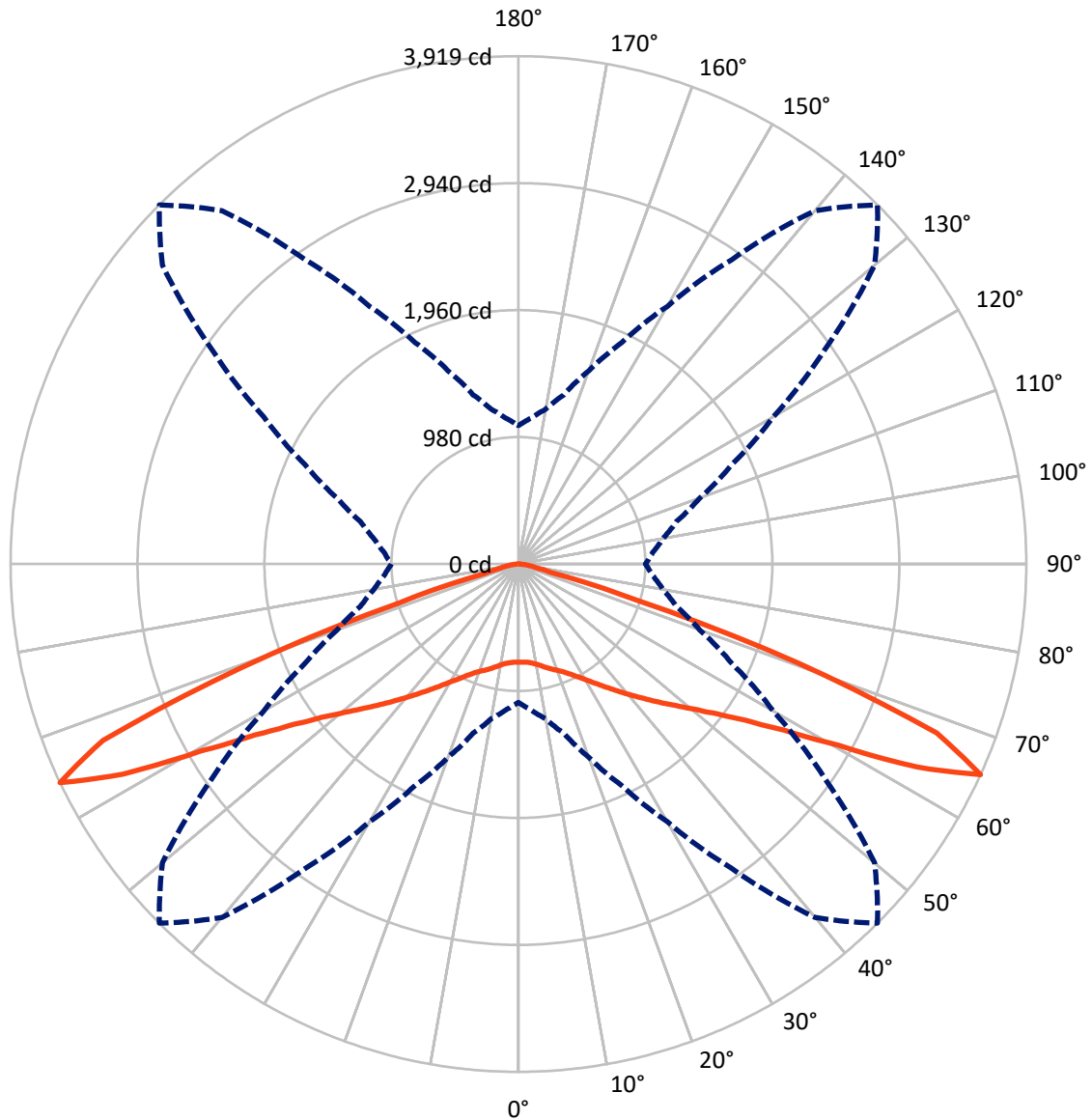
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.6 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	3332.5	0.0	3332.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3332.5	0.0	3332.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6665.0	0.0	6665.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	1.1
10°-20°	236.6	3.6
20°-30°	441.4	6.6
30°-40°	744.3	11.2
40°-50°	1208.9	18.1
50°-60°	1894.2	28.4
60°-70°	1788.0	26.8
70°-80°	241.0	3.6
80°-90°	36.7	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°	6665.0	100.0
0°-180°	6665.0	100.0

Coefficient of Utilization



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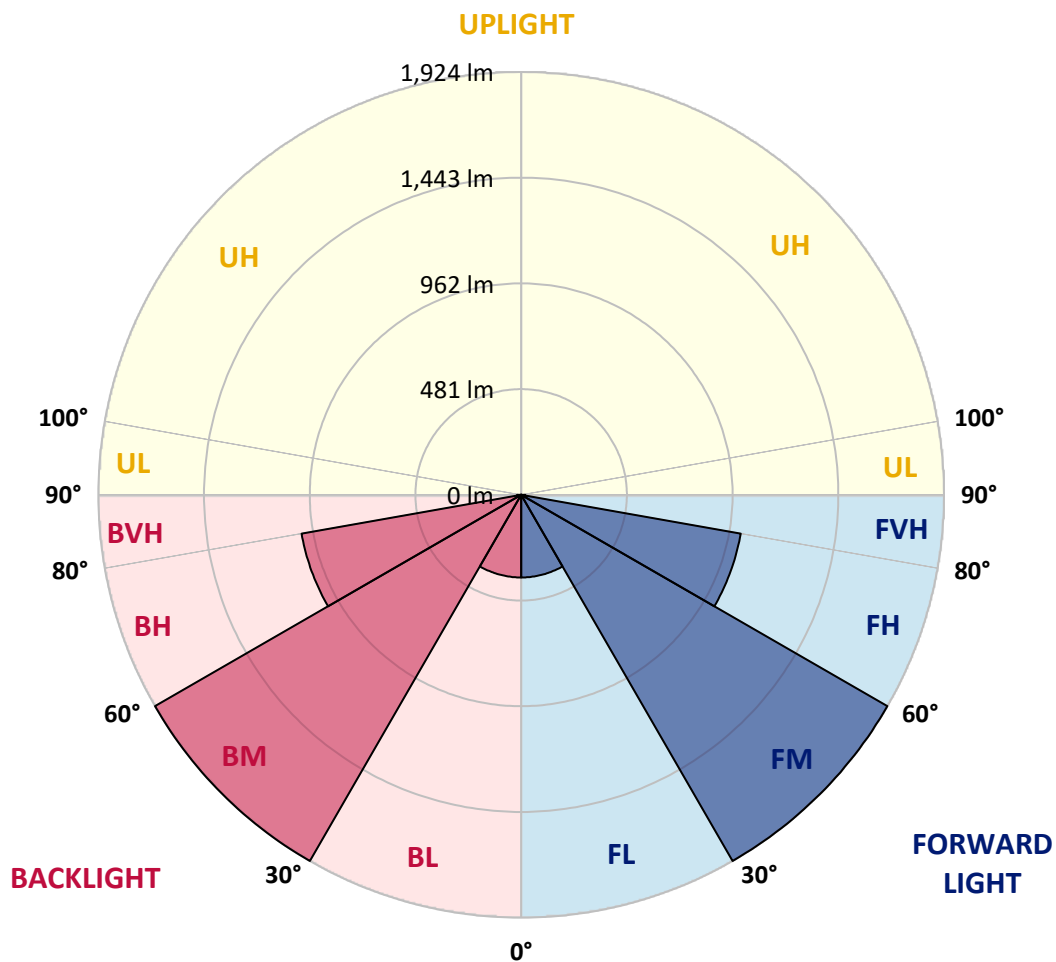
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	375.9	5.6			
FM	(30°-60°)	1923.7	28.9			
FH	(60°-80°)	1014.5	15.2			G1/1800
FVH	(80°-90°)	18.4	0.3			G1/100
BL	(0°-30°)	375.9	5.6	B1/500		
BM	(30°-60°)	1923.7	28.9	B2/2500		
BH	(60°-80°)	1014.5	15.2	B3/2500		G1/1800
BVH	(80°-90°)	18.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	758.1	758.1	758.1	758.1	758.1	758.1	758.1	758.1	758.1	758.1	758.1
2.5°	764.4	764.4	765.6	765.2	763.5	762.3	761.0	759.4	758.6	757.7	757.3
5°	768.5	768.5	769.8	769.3	768.1	766.4	765.6	764.4	763.1	762.3	762.7
7.5°	778.9	779.3	779.7	779.3	778.1	776.8	775.2	774.7	773.1	771.8	772.7
10°	794.7	794.7	795.1	795.5	794.7	791.8	791.8	790.9	789.3	787.6	788.0
12.5°	812.1	812.1	812.5	812.5	812.5	810.9	811.3	810.9	808.8	808.0	808.8
15°	829.1	829.5	829.5	830.4	830.4	830.8	832.5	832.5	831.6	831.2	831.2
17.5°	849.1	849.9	850.3	851.6	852.0	852.8	854.5	854.9	855.3	854.0	854.5
20°	875.6	876.0	877.3	877.7	879.4	879.4	880.2	879.8	879.0	877.3	877.3
22.5°	905.5	906.4	908.8	908.8	910.9	909.7	910.1	908.8	906.8	905.9	905.1
25°	944.6	945.8	947.9	947.0	947.9	945.8	945.8	945.8	944.6	943.3	942.9
27.5°	994.0	991.9	994.0	992.3	991.9	990.2	990.6	989.8	988.6	988.2	986.5
30°	1045.4	1043.0	1044.2	1044.6	1043.8	1043.4	1041.7	1040.5	1038.4	1038.8	1037.6
32.5°	1104.4	1101.9	1103.2	1103.6	1102.7	1103.6	1103.2	1100.3	1097.8	1099.4	1099.4
35°	1174.6	1172.9	1176.2	1177.5	1175.0	1173.7	1172.1	1168.8	1165.0	1167.5	1167.9
37.5°	1258.9	1256.8	1259.3	1262.6	1258.0	1255.5	1248.9	1243.9	1241.4	1242.7	1244.3
40°	1346.5	1346.9	1353.9	1354.8	1349.8	1346.9	1340.2	1332.8	1325.7	1325.7	1327.8
42.5°	1438.6	1439.9	1448.2	1451.1	1449.4	1444.0	1434.9	1425.8	1416.6	1418.3	1420.8
45°	1542.8	1541.2	1549.9	1557.0	1555.7	1554.1	1545.3	1528.7	1520.4	1520.0	1524.2
47.5°	1652.5	1655.8	1664.9	1676.9	1676.5	1672.4	1661.2	1645.8	1630.4	1631.7	1636.7
50°	1780.3	1784.9	1800.3	1812.3	1814.0	1812.7	1799.4	1781.6	1760.0	1761.2	1767.9
52.5°	1894.9	1901.6	1919.4	1944.3	1959.7	1966.8	1958.0	1941.4	1919.4	1920.7	1927.7
55°	1998.7	2009.1	2035.7	2069.7	2100.4	2129.1	2142.0	2141.5	2125.4	2129.1	2138.2
57.5°	2063.9	2078.4	2118.7	2173.5	2234.5	2292.3	2342.1	2389.0	2399.4	2418.9	2418.9
60°	1976.3	2010.3	2063.9	2157.7	2277.7	2407.3	2547.6	2684.2	2772.2	2841.6	2804.2
62.5°	1650.4	1700.6	1775.8	1899.5	2086.3	2317.6	2599.5	2917.1	3248.4	3451.1	3302.4
65°	1067.9	1131.0	1212.8	1351.9	1587.3	1885.0	2295.6	2866.5	3559.8	3919.4	3587.2
67.5°	423.1	465.8	515.7	614.5	818.8	1111.0	1571.9	2276.1	3143.4	3482.6	3110.2
70°	202.2	209.3	218.8	240.0	291.0	392.8	631.5	1121.4	1927.7	2285.2	1881.6
72.5°	146.1	147.4	152.0	159.0	174.0	194.7	236.7	342.9	664.7	966.6	665.5
75°	110.9	112.5	115.0	118.7	126.6	136.6	152.4	182.7	227.5	262.4	227.1
77.5°	84.3	85.9	88.0	91.8	95.9	103.0	108.8	120.8	139.9	147.4	146.6
80°	61.4	64.4	67.7	71.0	73.9	77.2	77.6	83.5	94.2	101.3	99.2
82.5°	39.0	41.5	50.2	54.0	54.4	55.2	54.8	55.2	61.0	66.0	64.4
85°	24.9	26.6	31.1	35.3	34.5	36.1	36.1	35.3	32.8	28.2	33.6
87.5°	12.5	12.9	14.9	18.7	17.9	15.8	15.4	15.4	11.2	9.5	10.4
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°	758.1	758.1	758.1	758.1	758.1	758.1	758.1	758.1
2.5°	756.1	756.9	755.6	755.6	755.2	756.1	754.8	754.8
5°	761.9	763.1	762.7	762.7	763.5	764.4	763.9	763.5
7.5°	772.3	773.1	773.9	774.3	775.2	774.7	775.6	775.2
10°	788.0	787.2	788.4	787.2	787.6	786.8	787.2	787.2
12.5°	808.0	806.7	805.9	805.1	805.1	803.4	803.4	803.8
15°	830.8	828.7	827.1	826.2	825.4	825.4	824.2	825.0
17.5°	853.2	851.1	848.2	848.2	847.0	846.2	845.3	847.4
20°	876.9	874.8	873.1	872.7	870.2	869.4	869.8	872.3
22.5°	904.3	903.0	903.0	902.2	900.5	899.3	899.3	902.2
25°	941.2	938.7	939.2	939.6	938.7	938.7	937.9	940.0
27.5°	986.5	984.4	985.7	986.5	985.7	986.9	985.7	987.3
30°	1039.6	1038.4	1039.6	1040.9	1038.8	1038.8	1038.0	1039.2
32.5°	1103.2	1101.5	1102.3	1102.3	1099.4	1096.9	1093.6	1096.1
35°	1172.9	1170.8	1172.5	1173.7	1170.4	1167.9	1162.9	1165.0
37.5°	1249.7	1250.6	1252.6	1258.0	1257.2	1253.0	1249.3	1251.0
40°	1335.7	1339.8	1349.0	1352.7	1351.9	1347.7	1342.7	1343.6
42.5°	1432.8	1438.2	1447.8	1454.0	1451.1	1445.3	1439.0	1441.5
45°	1538.7	1547.0	1559.5	1565.7	1561.9	1555.7	1547.0	1551.6
47.5°	1650.8	1667.4	1684.0	1692.3	1691.1	1682.3	1671.1	1672.4
50°	1784.9	1806.9	1828.1	1836.4	1830.2	1816.9	1801.1	1800.7
52.5°	1951.8	1975.5	1992.9	1990.8	1975.5	1954.7	1936.9	1936.0
55°	2160.2	2168.1	2165.6	2147.8	2120.8	2088.4	2065.6	2061.8
57.5°	2412.3	2385.7	2346.7	2292.7	2232.1	2170.6	2129.1	2113.7
60°	2720.3	2600.3	2460.8	2313.9	2179.7	2079.3	2015.7	1977.1
62.5°	2974.8	2627.3	2315.5	2060.2	1851.3	1727.2	1640.4	1586.9
65°	2887.6	2269.8	1818.1	1488.9	1260.9	1132.6	1040.9	979.8
67.5°	2230.8	1516.7	1055.4	731.6	554.7	469.6	410.2	371.6
70°	1124.7	581.7	352.5	248.7	212.6	197.6	187.7	181.9
72.5°	330.1	220.5	183.1	161.9	149.1	139.9	134.1	131.2
75°	182.7	149.1	131.6	119.6	111.3	105.0	101.3	98.8
77.5°	125.8	108.4	99.6	91.8	85.1	80.5	77.6	75.1
80°	88.0	79.3	75.6	71.4	66.4	62.7	58.5	56.9
82.5°	58.5	54.8	54.0	50.7	47.7	43.6	36.1	33.6
85°	34.5	34.0	34.0	32.8	30.7	27.0	21.6	21.6
87.5°	12.0	12.5	12.9	13.7	13.3	11.2	9.1	8.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)