

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: P198656

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198656
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-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 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: 6976.5 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

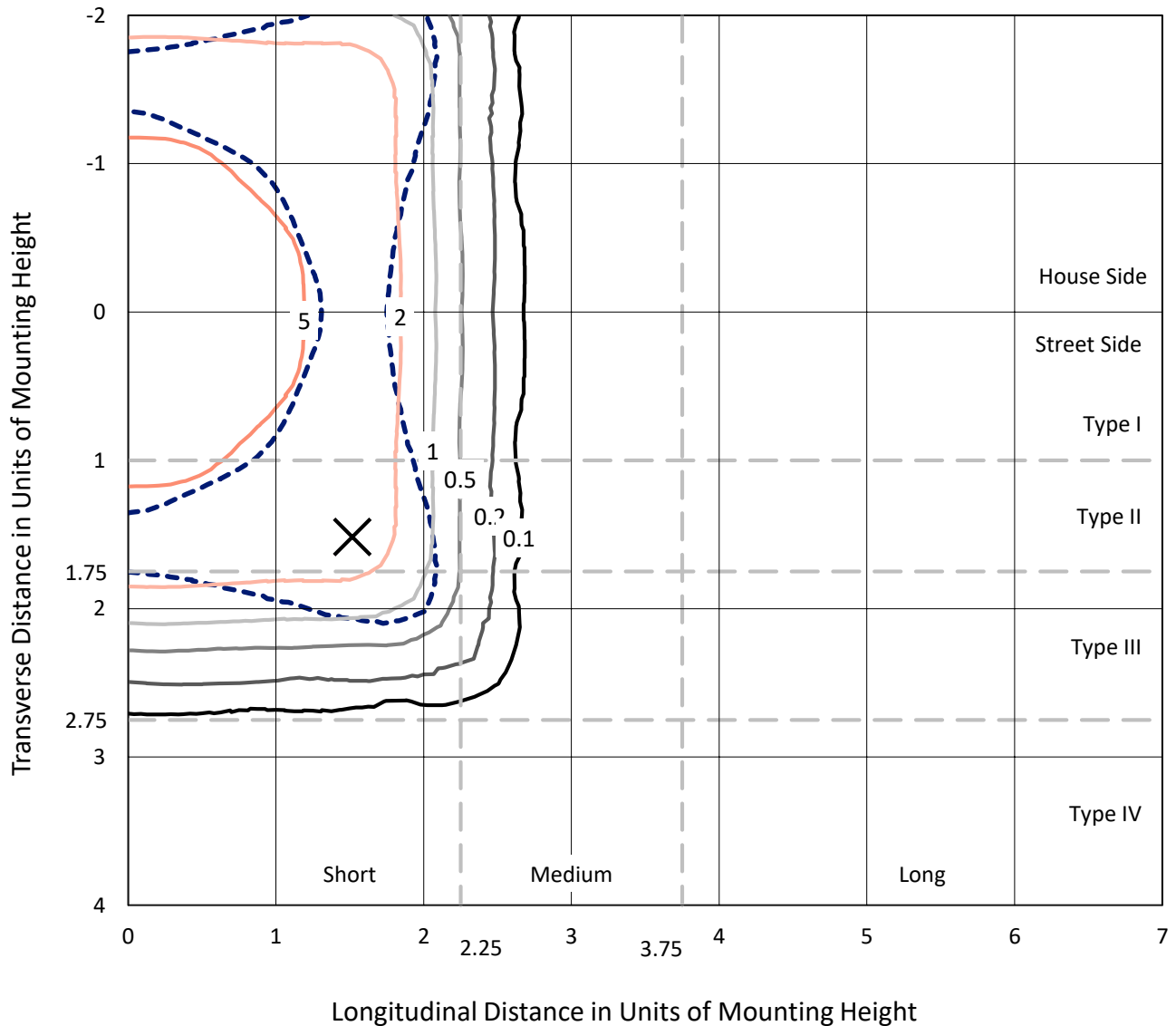
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

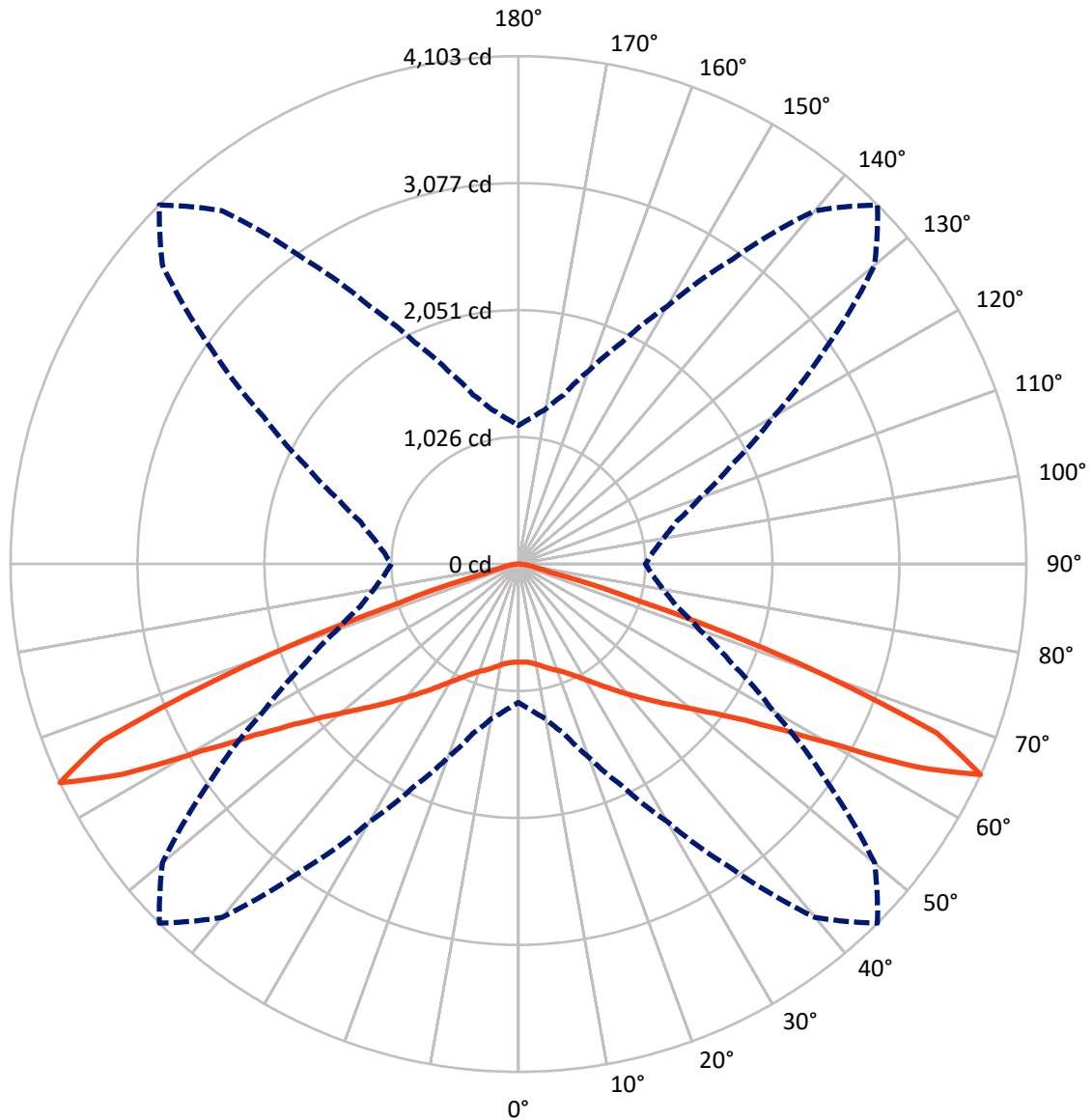
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.9 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	3488.3	0.0	3488.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3488.3	0.0	3488.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	6976.5	0.0	6976.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.3	1.1
10°-20°	247.7	3.6
20°-30°	462.0	6.6
30°-40°	779.1	11.2
40°-50°	1265.4	18.1
50°-60°	1982.7	28.4
60°-70°	1871.6	26.8
70°-80°	252.2	3.6
80°-90°	38.4	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°	6976.5	100.0
0°-180°	6976.5	100.0



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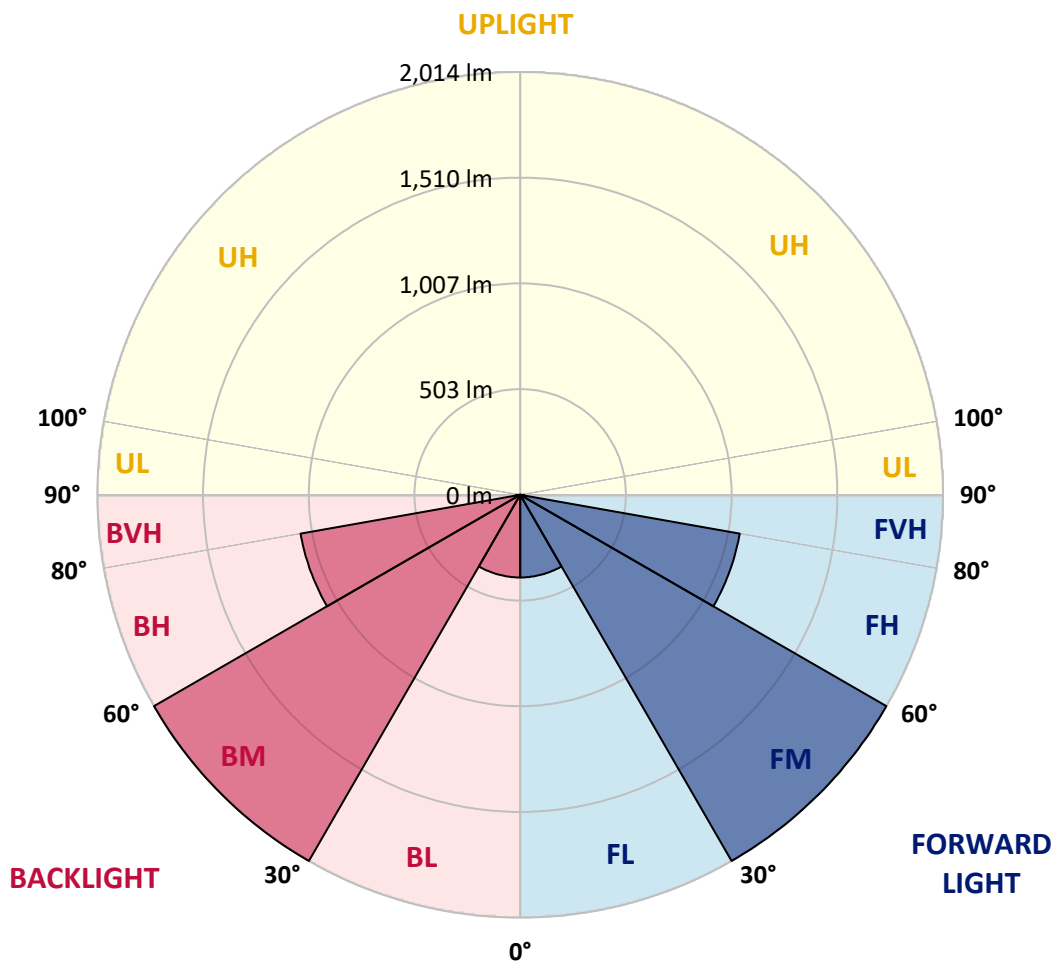
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	393.5	5.6			
FM	(30°-60°)	2013.6	28.9			
FH	(60°-80°)	1061.9	15.2			G1/1800
FVH	(80°-90°)	19.2	0.3			G1/100
BL	(0°-30°)	393.5	5.6	B1/500		
BM	(30°-60°)	2013.6	28.9	B2/2500		
BH	(60°-80°)	1061.9	15.2	B3/2500		G1/1800
BVH	(80°-90°)	19.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	793.6	793.6	793.6	793.6	793.6	793.6	793.6	793.6	793.6	793.6	793.6
2.5°	800.0	800.0	801.4	801.0	799.2	797.9	796.6	794.8	794.0	793.1	792.7
5°	804.4	804.4	805.8	805.3	804.0	802.3	801.4	800.0	798.8	797.9	798.3
7.5°	815.3	815.7	816.2	815.7	814.5	813.1	811.4	811.0	809.3	807.9	808.7
10°	831.9	831.9	832.3	832.7	831.9	828.8	828.8	827.9	826.1	824.4	824.9
12.5°	850.1	850.1	850.5	850.5	850.5	848.7	849.2	848.7	846.6	845.7	846.6
15°	867.9	868.3	868.3	869.2	869.2	869.6	871.3	871.3	870.5	870.0	870.0
17.5°	888.7	889.7	890.1	891.4	891.8	892.6	894.4	894.9	895.3	894.0	894.4
20°	916.6	917.0	918.3	918.7	920.5	920.5	921.4	920.9	920.0	918.3	918.3
22.5°	947.9	948.7	951.3	951.3	953.5	952.2	952.7	951.3	949.2	948.3	947.5
25°	988.7	990.0	992.2	991.3	992.2	990.0	990.0	990.0	988.7	987.4	986.9
27.5°	1040.4	1038.3	1040.4	1038.7	1038.3	1036.6	1037.0	1036.0	1034.8	1034.3	1032.6
30°	1094.4	1091.7	1093.0	1093.4	1092.6	1092.1	1090.4	1089.1	1086.9	1087.4	1086.1
32.5°	1156.0	1153.4	1154.7	1155.1	1154.3	1155.1	1154.7	1151.6	1149.1	1150.8	1150.8
35°	1229.5	1227.7	1231.2	1232.6	1229.9	1228.6	1226.8	1223.3	1219.5	1222.1	1222.5
37.5°	1317.7	1315.5	1318.2	1321.7	1316.8	1314.2	1307.2	1302.0	1299.5	1300.8	1302.5
40°	1409.4	1409.8	1417.2	1418.1	1412.9	1409.8	1402.9	1395.1	1387.6	1387.6	1389.9
42.5°	1505.9	1507.2	1515.9	1518.9	1517.1	1511.5	1502.0	1492.4	1482.9	1484.6	1487.2
45°	1614.9	1613.2	1622.3	1629.8	1628.4	1626.7	1617.6	1600.2	1591.5	1591.1	1595.4
47.5°	1729.7	1733.2	1742.7	1755.3	1754.9	1750.6	1738.8	1722.8	1706.7	1707.9	1713.1
50°	1863.5	1868.3	1884.4	1897.0	1898.7	1897.5	1883.6	1864.8	1842.2	1843.6	1850.5
52.5°	1983.5	1990.5	2009.2	2035.2	2051.3	2058.7	2049.6	2032.2	2009.2	2010.4	2017.9
55°	2092.1	2103.0	2130.8	2166.5	2198.6	2228.6	2242.1	2241.7	2224.7	2228.6	2238.2
57.5°	2160.4	2175.6	2217.8	2275.1	2339.0	2399.4	2451.6	2500.7	2511.5	2531.9	2531.9
60°	2068.7	2104.3	2160.4	2258.6	2384.2	2519.8	2666.6	2809.6	2901.8	2974.3	2935.3
62.5°	1727.6	1780.1	1858.8	1988.3	2183.8	2425.9	2721.0	3053.5	3400.3	3612.3	3456.8
65°	1117.8	1183.9	1269.5	1415.0	1661.5	1973.1	2402.9	3000.4	3726.2	4102.5	3754.9
67.5°	442.8	487.6	539.8	643.2	857.0	1163.0	1645.4	2382.5	3290.3	3645.4	3255.5
70°	211.6	219.0	229.0	251.2	304.6	411.1	661.0	1173.8	2017.9	2392.0	1969.6
72.5°	152.9	154.3	159.1	166.4	182.1	203.9	247.8	359.0	695.8	1011.7	696.6
75°	116.0	117.7	120.4	124.3	132.6	143.0	159.5	191.2	238.1	274.7	237.7
77.5°	88.2	89.9	92.2	96.1	100.4	107.8	113.9	126.4	146.5	154.3	153.4
80°	64.3	67.4	70.8	74.3	77.3	80.8	81.2	87.4	98.6	106.1	103.8
82.5°	40.8	43.5	52.6	56.5	57.0	57.8	57.4	57.8	63.9	69.2	67.4
85°	26.1	27.8	32.6	36.9	36.1	37.8	37.8	36.9	34.4	29.6	35.2
87.5°	13.0	13.5	15.7	19.5	18.7	16.5	16.1	16.1	11.8	10.0	10.8
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°	793.6	793.6	793.6	793.6	793.6	793.6	793.6	793.6
2.5°	791.4	792.3	790.9	790.9	790.5	791.4	790.1	790.1
5°	797.5	798.8	798.3	798.3	799.2	800.0	799.6	799.2
7.5°	808.3	809.3	810.1	810.5	811.4	811.0	811.8	811.4
10°	824.9	824.0	825.3	824.0	824.4	823.6	824.0	824.0
12.5°	845.7	844.4	843.5	842.7	842.7	841.0	841.0	841.4
15°	869.6	867.5	865.7	864.8	864.0	864.0	862.7	863.6
17.5°	893.1	890.9	887.9	887.9	886.6	885.7	884.9	887.0
20°	917.9	915.6	913.9	913.5	910.9	910.0	910.5	913.1
22.5°	946.5	945.2	945.2	944.4	942.6	941.3	941.3	944.4
25°	985.2	982.6	983.1	983.5	982.6	982.6	981.7	983.9
27.5°	1032.6	1030.4	1031.7	1032.6	1031.7	1033.1	1031.7	1033.5
30°	1088.2	1086.9	1088.2	1089.5	1087.4	1087.4	1086.5	1087.8
32.5°	1154.7	1153.0	1153.9	1153.9	1150.8	1148.2	1144.7	1147.3
35°	1227.7	1225.6	1227.3	1228.6	1225.1	1222.5	1217.3	1219.5
37.5°	1308.1	1309.0	1311.2	1316.8	1315.9	1311.6	1307.7	1309.5
40°	1398.1	1402.5	1412.0	1415.9	1415.0	1410.6	1405.4	1406.4
42.5°	1499.7	1505.5	1515.4	1521.9	1518.9	1512.8	1506.3	1509.0
45°	1610.6	1619.3	1632.3	1638.9	1635.0	1628.4	1619.3	1624.0
47.5°	1728.0	1745.4	1762.7	1771.4	1770.1	1761.0	1749.2	1750.6
50°	1868.3	1891.3	1913.5	1922.2	1915.7	1901.8	1885.3	1884.9
52.5°	2043.0	2067.8	2086.1	2083.9	2067.8	2046.1	2027.4	2026.6
55°	2261.2	2269.4	2266.9	2248.1	2219.9	2186.0	2162.1	2158.2
57.5°	2524.9	2497.2	2456.3	2399.8	2336.4	2272.1	2228.6	2212.5
60°	2847.5	2721.9	2575.9	2422.0	2281.6	2176.4	2109.9	2069.5
62.5°	3113.9	2750.1	2423.8	2156.5	1937.9	1808.0	1717.1	1661.1
65°	3022.6	2375.9	1903.1	1558.5	1319.9	1185.6	1089.5	1025.6
67.5°	2335.1	1587.6	1104.8	765.8	580.6	491.5	429.3	388.9
70°	1177.3	608.9	369.0	260.3	222.5	206.8	196.4	190.4
72.5°	345.6	230.8	191.7	169.5	156.0	146.5	140.3	137.4
75°	191.2	156.0	137.8	125.2	116.5	110.0	106.1	103.4
77.5°	131.7	113.4	104.3	96.1	89.1	84.3	81.2	78.7
80°	92.2	83.0	79.1	74.8	69.6	65.7	61.3	59.5
82.5°	61.3	57.4	56.5	53.0	50.0	45.6	37.8	35.2
85°	36.1	35.6	35.6	34.4	32.1	28.2	22.6	22.6
87.5°	12.6	13.0	13.5	14.3	13.9	11.8	9.5	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)