

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: P198806

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198806
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24129)
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-5MQ-7050
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6441 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

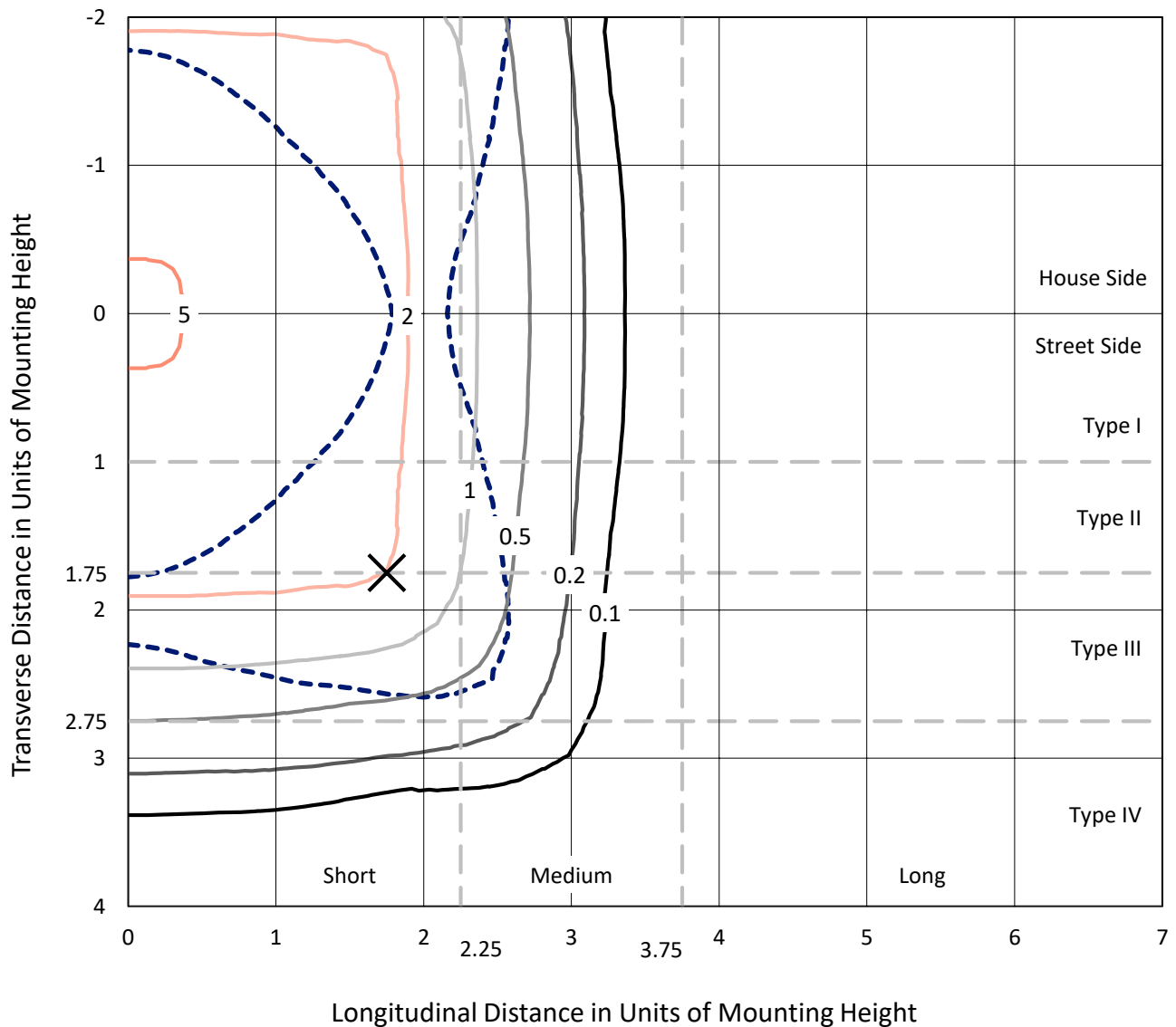
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

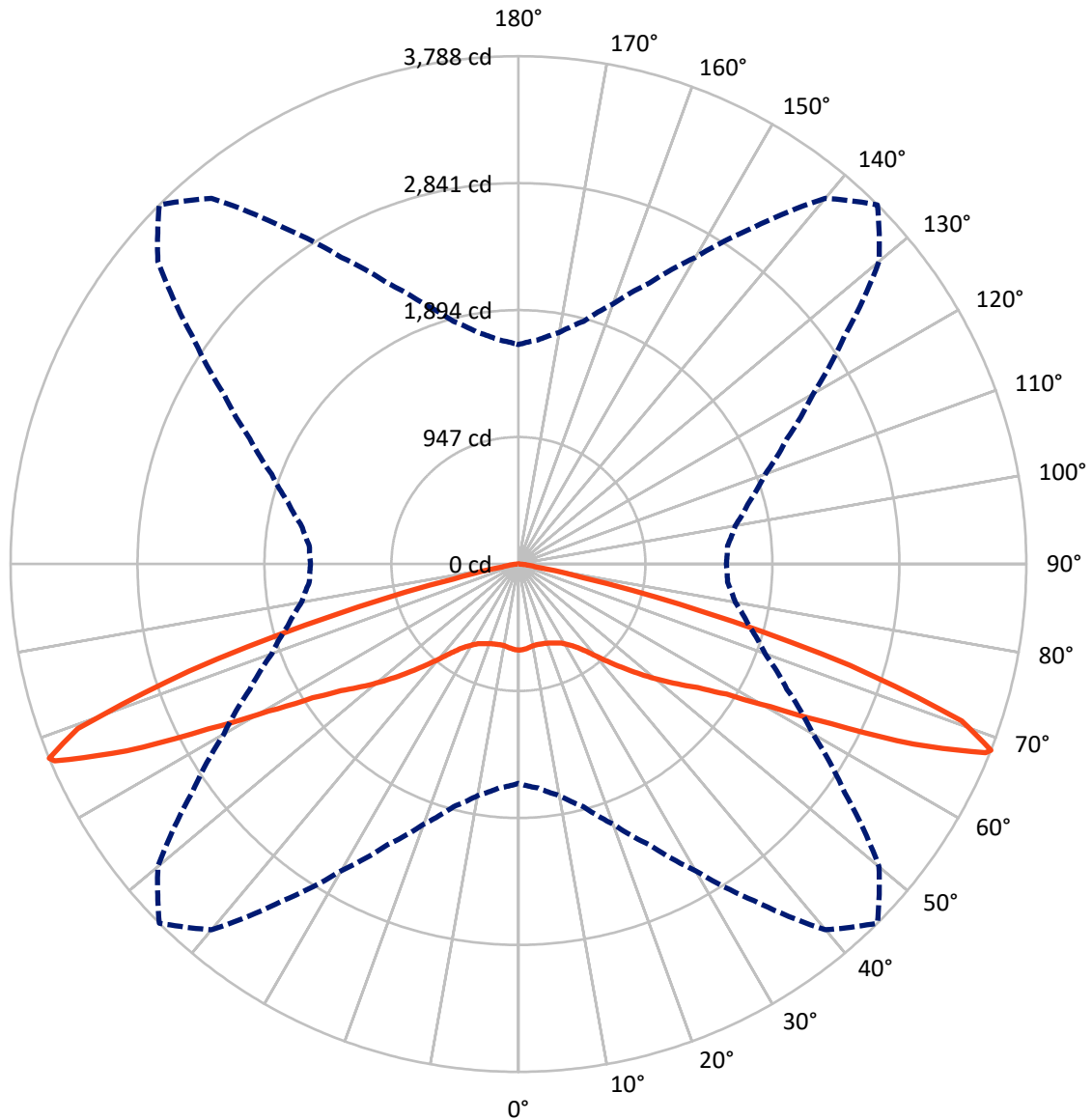
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3220.5	0.0	3220.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3220.5	0.0	3220.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6441.0	0.0	6441.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	0.9
10°-20°	174.4	2.7
20°-30°	296.4	4.6
30°-40°	485.1	7.5
40°-50°	867.0	13.5
50°-60°	1464.2	22.7
60°-70°	2270.4	35.2
70°-80°	780.6	12.1
80°-90°	42.9	0.7
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°	6441.0	100.0
0°-180°	6441.0	100.0



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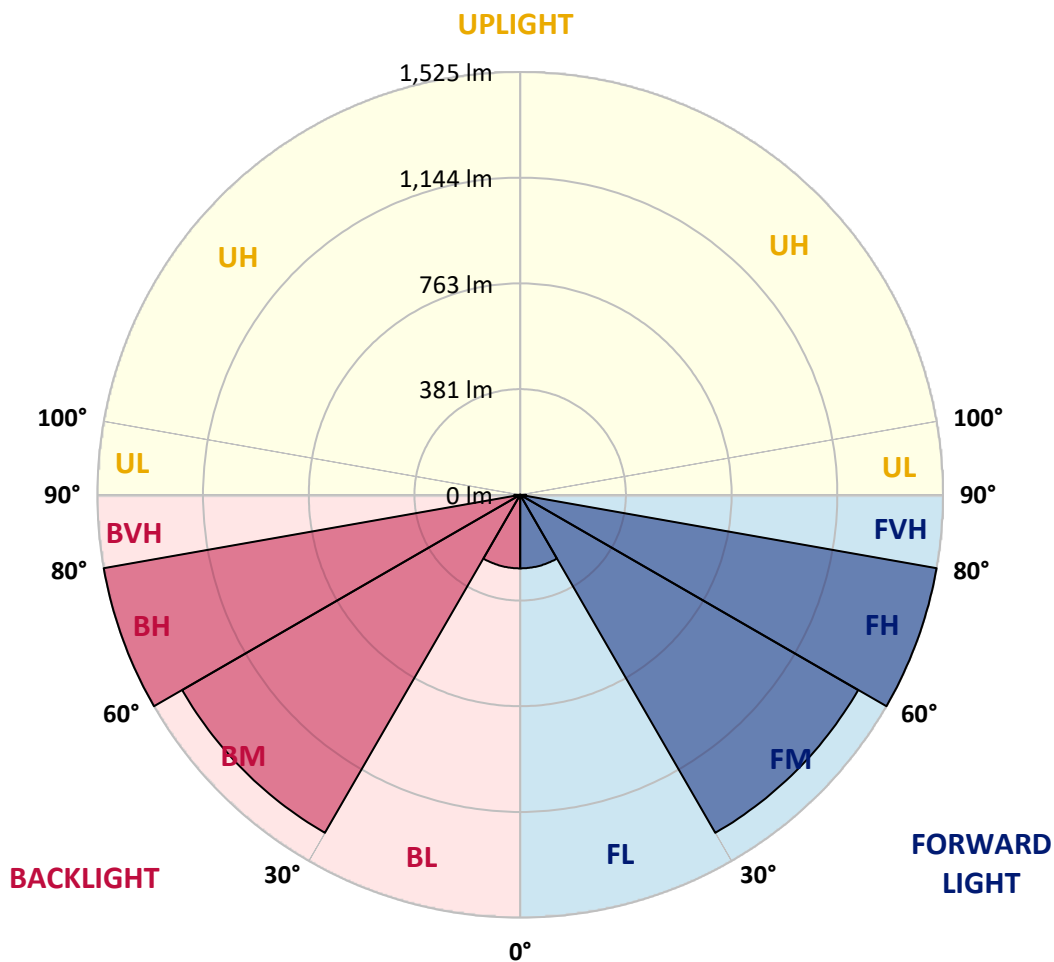
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	265.5	4.1			
FM	(30°-60°)	1408.1	21.9			
FH	(60°-80°)	1525.5	23.7			G1/1800
FVH	(80°-90°)	21.4	0.3			G1/100
BL	(0°-30°)	265.5	4.1	B1/500		
BM	(30°-60°)	1408.1	21.9	B2/2500		
BH	(60°-80°)	1525.5	23.7	B3/2500		G1/1800
BVH	(80°-90°)	21.4	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°	642.5	642.5	642.5	642.5	642.5	642.5	642.5	642.5	642.5	642.5	642.5
2.5°	645.3	645.3	646.1	645.7	644.5	643.3	642.1	640.9	640.1	639.4	638.6
5°	638.6	638.6	639.7	639.0	638.2	637.0	636.2	635.0	634.2	633.4	633.8
7.5°	629.9	630.7	631.5	631.1	629.5	629.1	627.9	627.5	626.7	625.5	625.9
10°	622.4	622.8	623.6	623.2	622.8	621.6	621.2	620.8	620.4	618.8	618.4
12.5°	614.9	615.7	616.5	616.9	616.5	616.9	617.3	617.7	617.3	616.5	616.5
15°	609.0	609.8	611.0	612.1	612.5	614.9	616.5	618.1	619.2	619.6	618.4
17.5°	605.8	607.0	608.6	611.0	612.9	615.7	618.4	620.8	622.8	623.2	622.0
20°	605.4	606.6	609.0	611.7	615.3	618.8	623.2	626.7	628.7	629.9	628.7
22.5°	608.2	609.8	612.9	616.5	620.8	625.5	631.1	635.0	639.0	640.5	639.4
25°	616.1	617.7	621.2	625.5	630.3	636.2	641.7	646.8	650.8	652.8	651.2
27.5°	632.6	633.0	637.0	641.7	647.2	652.4	659.5	661.8	665.0	667.0	665.0
30°	655.9	656.7	660.3	667.8	672.9	679.6	683.5	685.9	689.4	691.4	689.1
32.5°	691.4	692.2	695.4	702.5	707.2	712.3	717.1	718.6	722.2	724.5	721.8
35°	741.5	743.1	745.8	750.6	754.5	758.5	762.0	760.8	763.2	766.4	763.6
37.5°	810.1	809.7	810.5	814.1	818.0	820.4	825.9	823.2	825.5	828.3	826.7
40°	890.2	890.2	889.8	896.1	897.7	900.1	906.0	902.4	905.6	908.7	906.0
42.5°	981.3	982.9	984.9	990.0	994.3	995.1	997.9	996.3	1000.2	1003.0	1000.2
45°	1086.2	1088.6	1091.0	1102.8	1104.8	1106.3	1108.3	1103.2	1107.5	1109.9	1109.1
47.5°	1195.1	1199.4	1204.6	1216.8	1224.7	1228.2	1229.8	1223.9	1224.3	1227.8	1228.2
50°	1318.1	1322.9	1328.0	1341.8	1349.3	1355.6	1357.6	1350.9	1351.7	1354.4	1355.2
52.5°	1431.7	1437.3	1448.3	1466.8	1477.5	1488.5	1489.3	1481.0	1484.6	1486.6	1485.0
55°	1538.6	1545.7	1560.3	1585.2	1604.5	1626.2	1636.1	1627.0	1627.0	1625.4	1624.6
57.5°	1663.3	1671.2	1686.1	1714.9	1741.8	1772.9	1799.7	1808.8	1825.4	1830.9	1822.2
60°	1851.0	1859.3	1874.7	1912.5	1946.5	1991.8	2036.0	2071.9	2130.3	2161.8	2133.4
62.5°	2022.6	2035.2	2071.5	2137.8	2211.1	2295.1	2392.5	2462.0	2568.1	2620.9	2549.5
65°	1983.5	2009.2	2080.2	2184.3	2335.8	2518.0	2716.4	2906.9	3126.2	3238.6	3093.4
67.5°	1732.7	1754.4	1830.9	1952.0	2140.9	2392.2	2700.6	3095.0	3547.4	3758.0	3501.3
68°	1636.8	1677.5	1753.6	1873.9	2064.4	2311.3	2640.6	3066.6	3560.4	3788.0	3510.7
70°	1255.0	1269.6	1342.6	1450.7	1656.2	1898.3	2230.8	2716.4	3274.5	3508.8	3223.6
72.5°	596.4	605.0	652.4	758.9	889.4	1086.6	1380.1	1838.0	2340.9	2584.6	2300.3
75°	218.5	220.5	231.5	256.8	305.7	379.8	520.6	805.4	1192.3	1421.9	1197.1
77.5°	117.9	118.3	122.7	129.0	137.7	147.5	168.8	226.4	365.2	497.0	385.7
80°	74.2	73.8	78.1	83.2	89.1	93.9	95.8	102.5	115.6	135.3	124.2
82.5°	37.9	41.4	51.3	56.8	65.5	67.1	65.1	64.7	68.6	74.2	76.5
85°	20.9	18.5	27.2	36.3	39.4	40.6	41.0	38.7	37.9	37.1	39.0
87.5°	10.6	9.9	11.8	18.1	19.3	15.8	16.2	13.8	9.5	9.5	9.9
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°	642.5	642.5	642.5	642.5	642.5	642.5	642.5	642.5
2.5°	637.8	638.2	637.4	637.4	637.4	637.8	637.4	637.0
5°	632.6	633.4	633.4	633.8	634.2	634.2	634.2	634.2
7.5°	625.2	625.5	626.3	626.3	626.3	626.3	626.3	626.3
10°	618.1	617.3	616.9	616.1	616.1	614.9	615.3	615.7
12.5°	614.5	612.9	612.1	611.0	610.2	609.0	609.0	609.4
15°	616.1	613.7	611.3	610.6	609.8	609.0	608.2	608.6
17.5°	619.2	616.5	613.7	612.1	610.6	609.4	609.0	609.4
20°	625.9	622.0	617.7	614.9	611.7	611.0	609.8	611.0
22.5°	635.0	630.3	624.8	619.6	616.1	614.5	612.9	614.1
25°	646.1	640.9	635.4	629.5	625.5	624.4	622.4	622.4
27.5°	661.4	657.1	652.4	646.8	642.9	641.7	638.6	638.6
30°	685.9	681.6	677.2	672.5	668.5	667.4	663.4	663.4
32.5°	718.2	713.5	710.7	706.8	703.6	701.7	696.9	696.5
35°	761.6	757.3	756.9	754.1	751.0	751.4	746.6	745.8
37.5°	823.9	820.4	821.6	819.2	816.4	818.8	816.1	816.1
40°	903.6	902.4	903.6	902.0	902.4	902.8	900.5	901.2
42.5°	999.9	996.7	1003.8	1003.0	1001.8	1005.0	999.5	995.5
45°	1110.7	1109.5	1116.6	1117.8	1115.4	1117.4	1107.5	1107.1
47.5°	1231.0	1231.0	1237.3	1236.5	1234.1	1234.5	1222.7	1215.2
50°	1356.4	1355.6	1361.9	1360.4	1357.2	1356.8	1344.6	1337.1
52.5°	1487.0	1487.0	1496.0	1491.7	1484.2	1480.6	1465.7	1455.8
55°	1631.3	1629.3	1632.1	1617.9	1603.3	1592.7	1574.1	1566.6
57.5°	1813.9	1791.1	1771.3	1753.2	1732.7	1720.1	1698.4	1690.5
60°	2073.1	2011.9	1985.5	1949.2	1915.3	1898.3	1869.5	1854.2
62.5°	2432.0	2330.6	2258.8	2178.8	2101.5	2047.0	2003.3	1983.9
65°	2846.9	2626.0	2443.4	2271.9	2126.3	2010.7	1946.5	1926.3
67.5°	3004.7	2599.2	2284.1	2038.0	1861.3	1723.6	1646.7	1630.5
68°	2971.2	2537.7	2210.3	1958.3	1780.8	1642.0	1565.4	1550.9
70°	2620.9	2140.9	1795.4	1544.5	1378.9	1246.8	1192.7	1169.5
72.5°	1786.7	1374.9	1054.7	843.7	719.8	636.2	586.5	569.5
75°	822.4	555.7	371.1	277.3	235.5	215.4	200.0	196.0
77.5°	239.8	174.3	149.9	138.8	130.6	123.5	118.3	117.9
80°	114.0	106.9	103.7	96.6	89.1	82.4	77.7	78.5
82.5°	76.5	74.5	74.5	67.4	55.6	47.7	39.4	35.5
85°	40.6	42.2	44.6	42.2	36.7	27.2	17.7	19.3
87.5°	13.8	15.8	16.6	16.2	14.6	11.0	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)