

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: P271204

Luminaire Tested: **XNV-AF-01-LED-U-5MQ-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271204
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-7027-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6139.1 lumens
Efficiency: N/A
Efficacy: 93.0 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

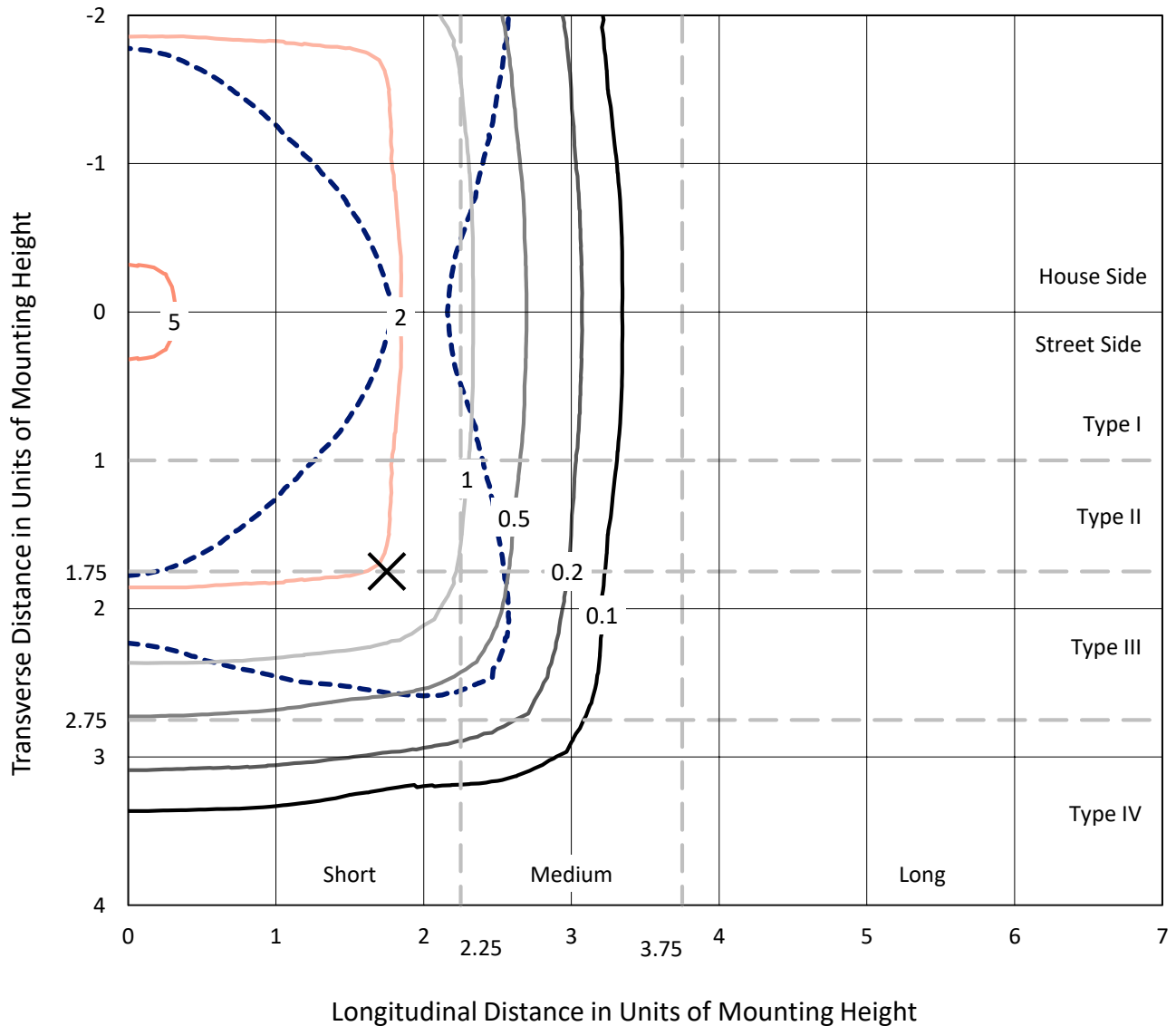
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

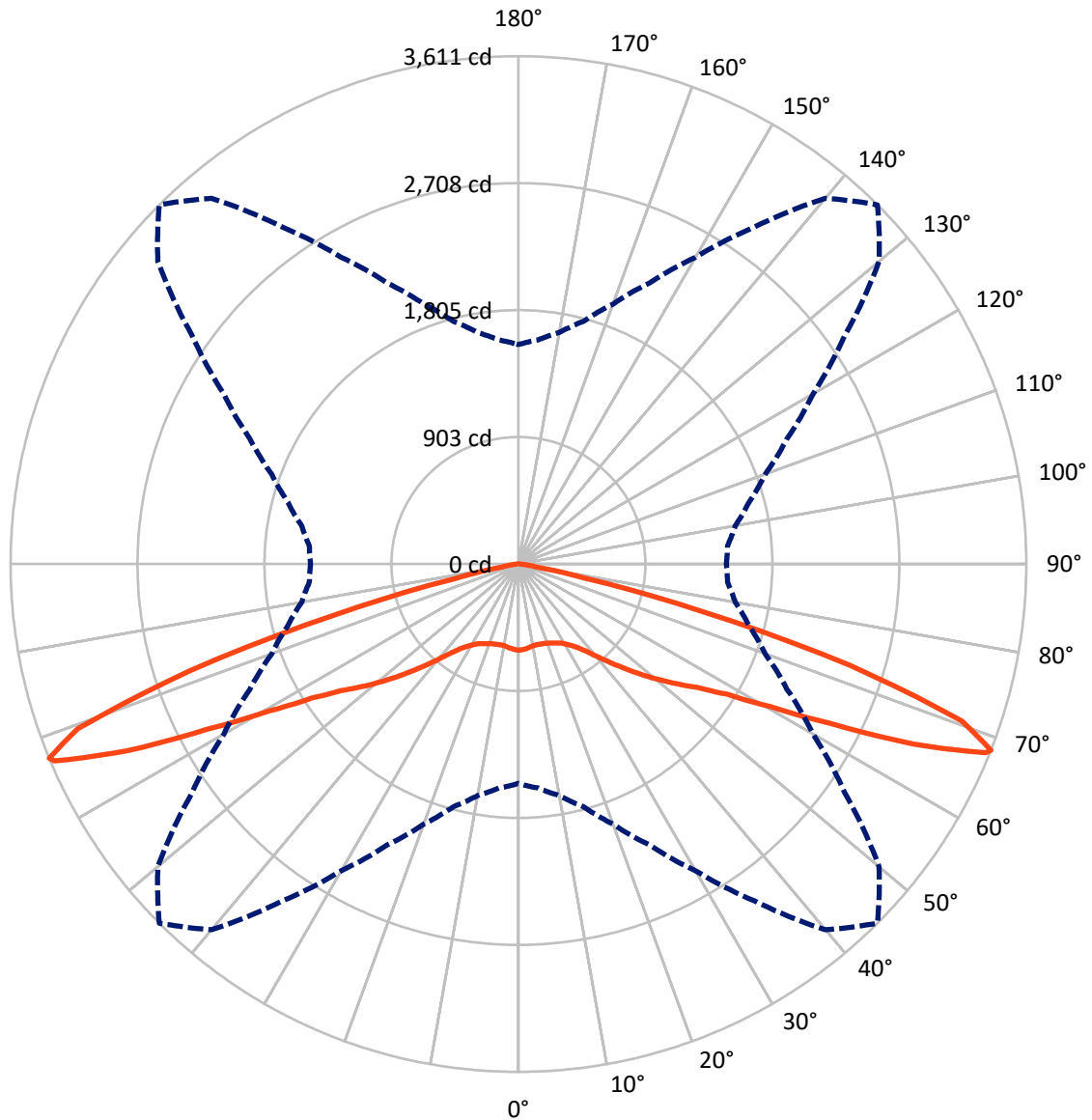
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.1 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	3069.6	0.0	3069.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3069.6	0.0	3069.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	6139.1	0.0	6139.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	0.9
10°-20°	166.2	2.7
20°-30°	282.5	4.6
30°-40°	462.4	7.5
40°-50°	826.3	13.5
50°-60°	1395.5	22.7
60°-70°	2164.0	35.2
70°-80°	744.0	12.1
80°-90°	40.9	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°	6139.1	100.0
0°-180°	6139.1	100.0



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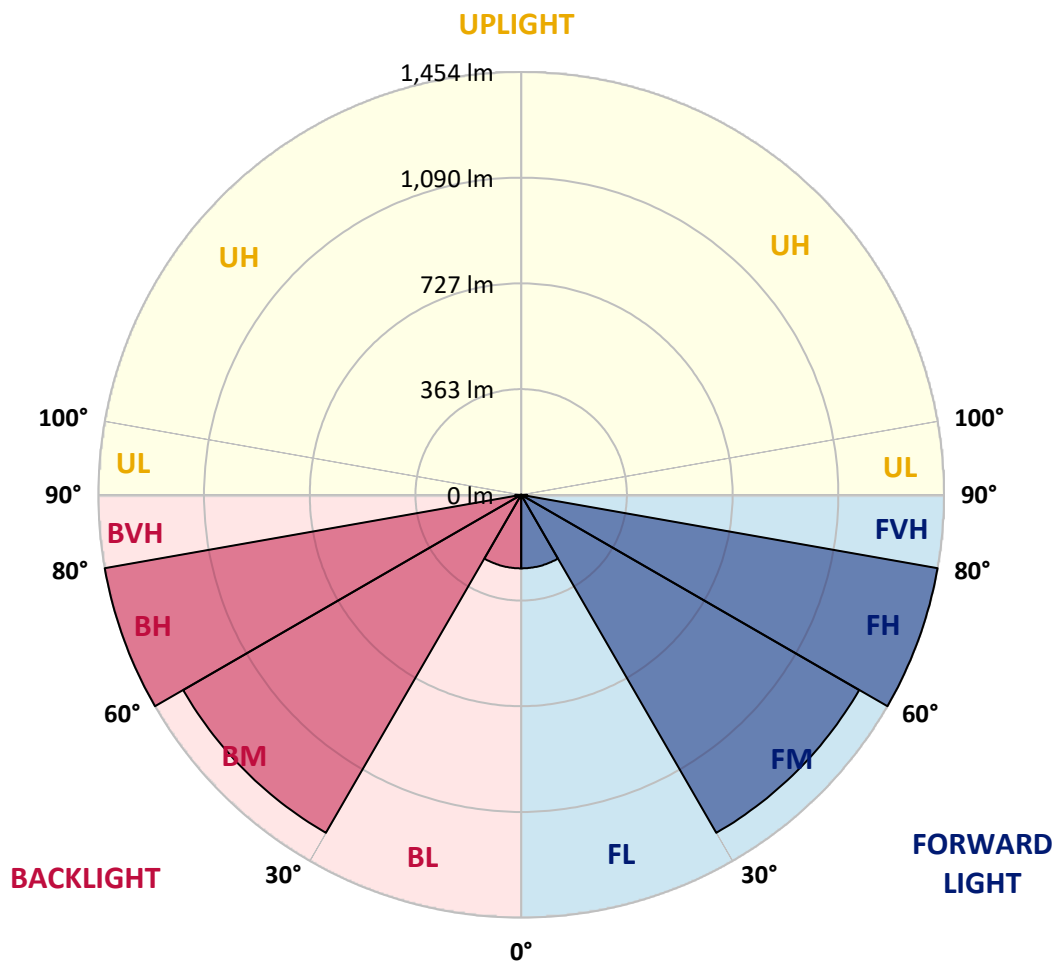
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	253.0	4.1			
FM	(30°-60°)	1342.1	21.9			
FH	(60°-80°)	1454.0	23.7			G1/1800
FVH	(80°-90°)	20.4	0.3			G1/100
BL	(0°-30°)	253.0	4.1	B1/500		
BM	(30°-60°)	1342.1	21.9	B2/2500		
BH	(60°-80°)	1454.0	23.7	B3/2500		G1/1800
BVH	(80°-90°)	20.4	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°	612.5	612.5	612.5	612.5	612.5	612.5	612.5	612.5	612.5	612.5	612.5
2.5°	615.0	615.0	615.8	615.3	614.4	613.2	612.0	610.8	610.2	609.4	608.6
5°	608.6	608.6	609.8	609.1	608.2	607.2	606.4	605.3	604.5	603.8	604.1
7.5°	600.3	601.1	601.9	601.4	600.0	599.6	598.5	598.1	597.4	596.3	596.7
10°	593.2	593.6	594.4	594.0	593.6	592.5	592.2	591.8	591.4	589.8	589.5
12.5°	586.1	586.9	587.6	588.0	587.6	588.0	588.3	588.7	588.3	587.6	587.6
15°	580.5	581.3	582.3	583.4	583.8	586.1	587.6	589.1	590.2	590.5	589.5
17.5°	577.4	578.6	580.0	582.3	584.2	586.9	589.5	591.8	593.6	594.0	592.8
20°	577.2	578.1	580.5	583.1	586.5	589.8	594.0	597.4	599.2	600.3	599.2
22.5°	579.6	581.3	584.2	587.6	591.8	596.3	601.4	605.3	609.1	610.5	609.4
25°	587.2	588.7	592.2	596.3	600.7	606.4	611.7	616.5	620.3	622.2	620.6
27.5°	603.0	603.4	607.2	611.7	617.0	621.7	628.5	630.8	633.8	635.7	633.8
30°	625.2	625.8	629.4	636.4	641.3	647.8	651.5	653.7	657.1	659.0	656.8
32.5°	659.0	659.7	662.8	669.5	674.1	678.9	683.4	685.0	688.3	690.5	687.9
35°	706.7	708.3	710.9	715.4	719.2	723.0	726.3	725.2	727.4	730.4	727.7
37.5°	772.2	771.9	772.5	776.0	779.6	782.0	787.3	784.6	786.8	789.5	788.0
40°	848.4	848.4	848.1	854.1	855.6	857.9	863.5	860.1	863.1	866.1	863.5
42.5°	935.3	936.8	938.6	943.6	947.7	948.5	951.1	949.6	953.5	955.9	953.5
45°	1035.3	1037.6	1039.9	1051.1	1053.1	1054.5	1056.3	1051.5	1055.6	1057.8	1057.1
47.5°	1139.1	1143.3	1148.2	1159.7	1167.3	1170.8	1172.2	1166.4	1166.9	1170.3	1170.8
50°	1256.4	1261.0	1265.8	1278.9	1286.1	1292.1	1294.0	1287.6	1288.3	1291.0	1291.8
52.5°	1364.6	1369.9	1380.4	1398.1	1408.3	1418.9	1419.5	1411.6	1415.0	1416.8	1415.4
55°	1466.6	1473.3	1487.2	1510.9	1529.4	1549.9	1559.4	1550.7	1550.7	1549.2	1548.5
57.5°	1585.2	1592.9	1607.2	1634.6	1660.2	1689.8	1715.5	1724.0	1739.8	1745.0	1736.9
60°	1764.4	1772.1	1786.8	1822.9	1855.3	1898.5	1940.6	1974.8	2030.3	2060.5	2033.5
62.5°	1927.9	1939.8	1974.5	2037.5	2107.6	2187.6	2280.4	2346.6	2447.7	2498.0	2430.1
65°	1890.7	1915.0	1982.6	2081.9	2226.3	2400.0	2589.1	2770.6	2979.7	3086.8	2948.4
67.5°	1651.4	1672.1	1745.0	1860.5	2040.6	2280.1	2574.1	2949.9	3381.2	3581.9	3337.3
68°	1560.1	1598.9	1671.3	1786.1	1967.6	2203.1	2517.0	2922.9	3393.5	3610.5	3346.1
70°	1196.3	1210.1	1279.6	1382.8	1578.5	1809.4	2126.3	2589.1	3121.0	3344.3	3072.6
72.5°	568.4	576.7	621.7	723.2	847.7	1035.7	1315.4	1751.9	2231.2	2463.5	2192.5
75°	208.2	210.2	220.7	244.8	291.3	362.0	496.3	767.6	1136.4	1355.3	1140.9
77.5°	112.4	112.7	116.9	123.0	131.2	140.7	160.8	215.9	348.2	473.6	367.6
80°	70.6	70.2	74.4	79.3	85.0	89.6	91.4	97.7	110.1	128.9	118.4
82.5°	36.1	39.4	48.9	54.2	62.4	63.9	62.1	61.7	65.3	70.6	72.9
85°	19.9	17.6	26.0	34.6	37.5	38.7	39.0	36.8	36.1	35.4	37.2
87.5°	10.2	9.4	11.3	17.2	18.4	15.0	15.5	13.1	9.1	9.1	9.4
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°	612.5	612.5	612.5	612.5	612.5	612.5	612.5	612.5
2.5°	608.0	608.2	607.6	607.6	607.6	608.0	607.6	607.2
5°	603.0	603.8	603.8	604.1	604.5	604.5	604.5	604.5
7.5°	595.8	596.3	597.1	597.1	597.1	597.1	597.1	597.1
10°	589.1	588.3	588.0	587.2	587.2	586.1	586.5	586.9
12.5°	585.8	584.2	583.4	582.3	581.6	580.5	580.5	580.8
15°	587.2	584.9	582.7	581.9	581.3	580.5	579.6	580.0
17.5°	590.2	587.6	584.9	583.4	581.9	580.8	580.5	580.8
20°	596.7	592.8	588.7	586.1	583.1	582.3	581.3	582.3
22.5°	605.3	600.7	595.4	590.5	587.2	585.8	584.2	585.3
25°	615.8	610.8	605.6	600.0	596.3	595.0	593.2	593.2
27.5°	630.4	626.3	621.7	616.5	612.7	611.7	608.6	608.6
30°	653.7	649.7	645.5	641.0	637.2	636.1	632.3	632.3
32.5°	684.6	680.0	677.4	673.6	670.7	668.8	664.2	663.8
35°	725.9	721.8	721.3	718.9	715.8	716.2	711.6	710.9
37.5°	785.3	782.0	783.1	780.8	778.2	780.4	777.8	777.8
40°	861.2	860.1	861.2	859.8	860.1	860.5	858.3	859.0
42.5°	953.0	950.0	956.8	955.9	954.9	958.0	952.7	948.9
45°	1058.7	1057.6	1064.3	1065.4	1063.1	1065.0	1055.6	1055.2
47.5°	1173.2	1173.2	1179.4	1178.5	1176.3	1176.7	1165.5	1158.3
50°	1292.8	1292.1	1298.1	1296.7	1293.6	1293.2	1281.5	1274.4
52.5°	1417.3	1417.3	1425.9	1421.7	1414.7	1411.2	1397.0	1387.6
55°	1554.8	1553.0	1555.7	1542.1	1528.1	1518.0	1500.3	1493.3
57.5°	1729.0	1707.0	1688.4	1671.0	1651.4	1639.4	1618.7	1611.3
60°	1975.9	1917.6	1892.5	1857.9	1825.5	1809.4	1782.0	1767.2
62.5°	2318.0	2221.4	2153.0	2076.7	2003.0	1951.1	1909.3	1890.9
65°	2713.5	2502.9	2328.9	2165.4	2026.7	1916.5	1855.3	1836.0
67.5°	2863.8	2477.4	2177.0	1942.4	1774.1	1642.8	1569.5	1554.1
68°	2831.9	2418.7	2106.7	1866.5	1697.3	1565.0	1492.1	1478.3
70°	2498.0	2040.6	1711.2	1472.1	1314.3	1188.4	1136.8	1114.6
72.5°	1702.9	1310.4	1005.3	804.2	686.0	606.4	559.0	542.8
75°	783.9	529.7	353.8	264.3	224.4	205.3	190.6	186.8
77.5°	228.6	166.1	142.9	132.3	124.4	117.7	112.7	112.4
80°	108.7	101.9	98.9	92.0	85.0	78.6	74.1	74.7
82.5°	72.9	71.1	71.1	64.3	53.0	45.5	37.5	33.9
85°	38.7	40.2	42.5	40.2	34.9	26.0	16.9	18.4
87.5°	13.1	15.0	15.8	15.5	14.0	10.5	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)