

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: P199123

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199123
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: XNV2-AF-02-LED-U-5MQ-8030-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6905 lumens
Efficiency: N/A
Efficacy: 104.6 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

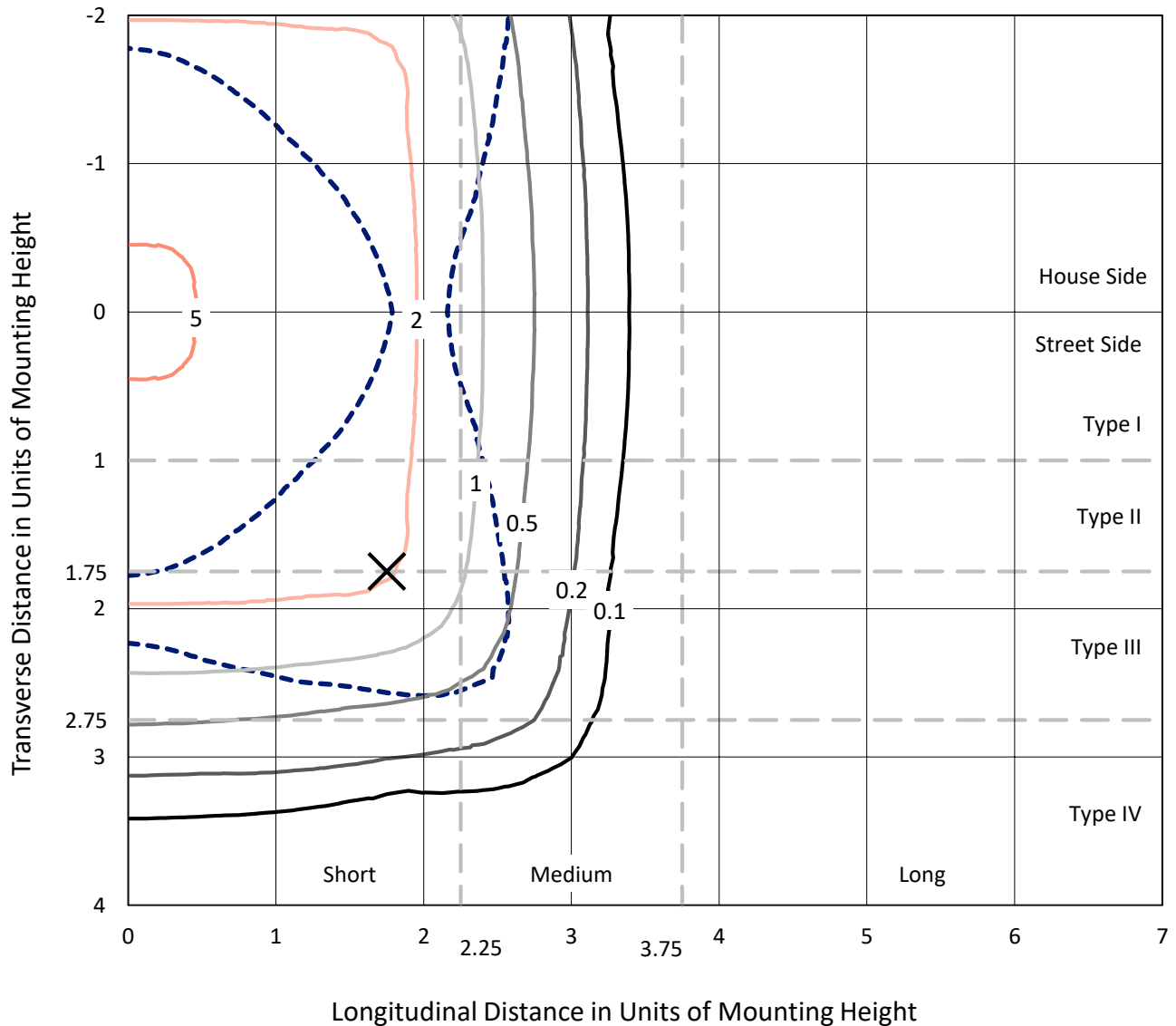
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

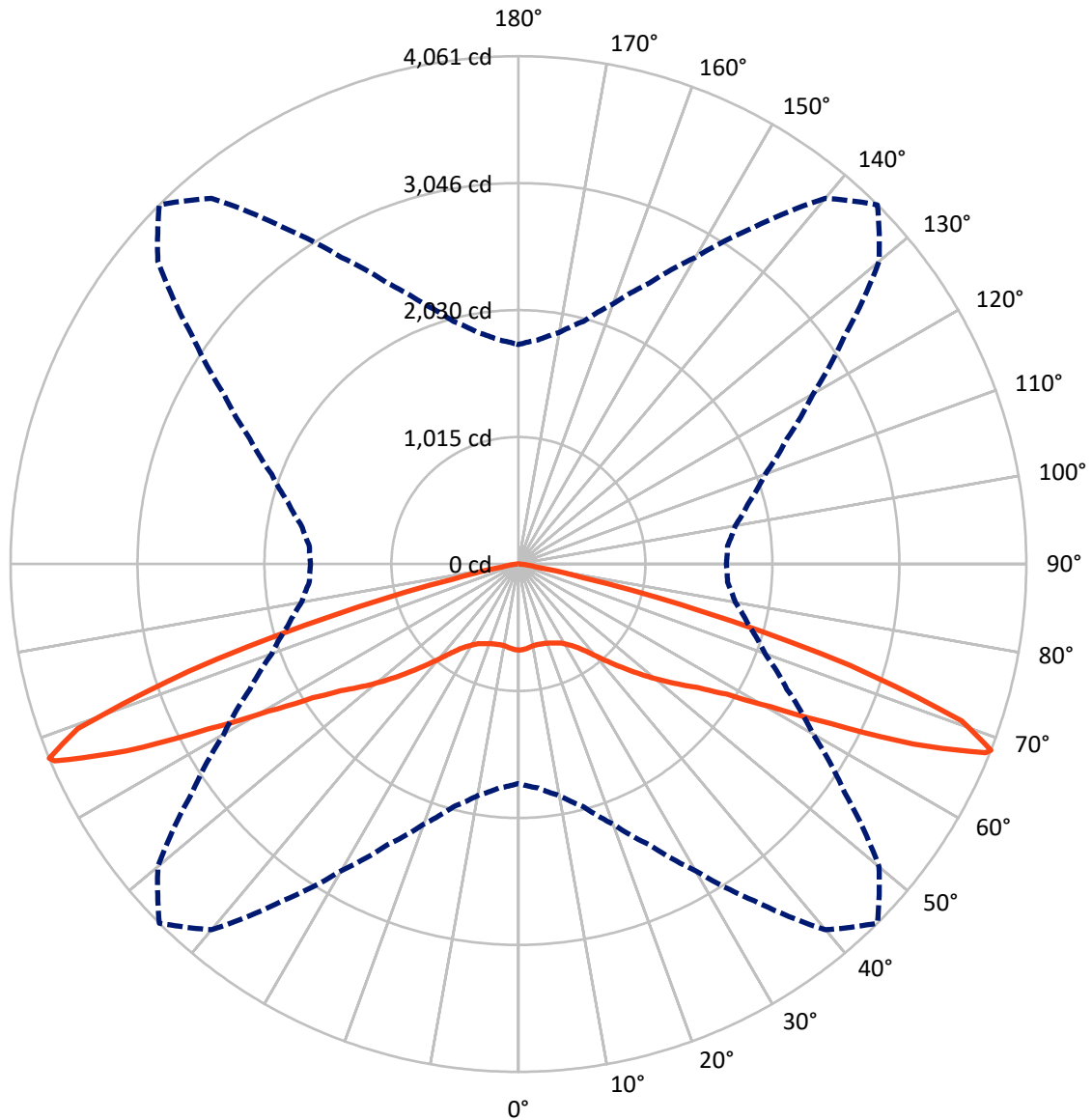
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 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	3452.5	0.0	3452.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3452.5	0.0	3452.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6905.0	0.0	6905.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	0.9
10°-20°	186.9	2.7
20°-30°	317.8	4.6
30°-40°	520.1	7.5
40°-50°	929.4	13.5
50°-60°	1569.6	22.7
60°-70°	2433.9	35.2
70°-80°	836.8	12.1
80°-90°	46.0	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°	6905.0	100.0
0°-180°	6905.0	100.0

Coefficient of Utilization



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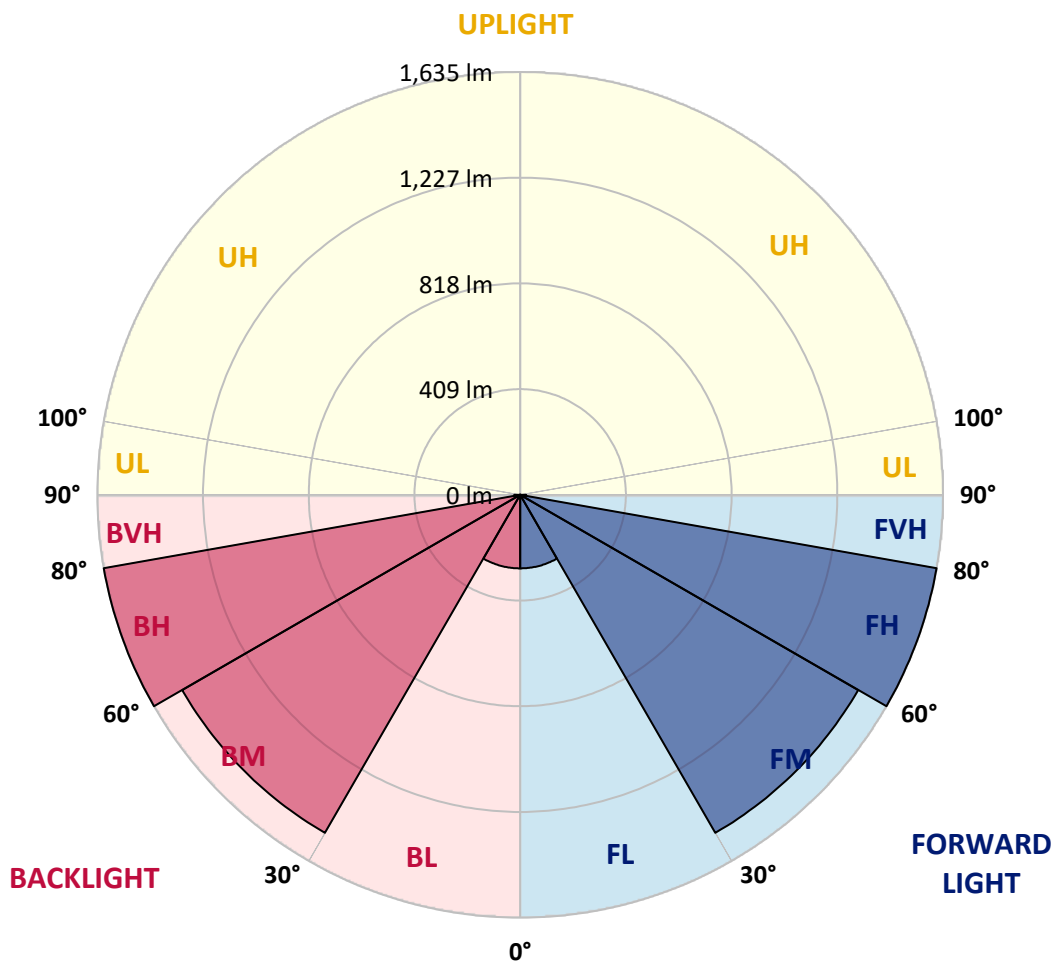
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	284.6	4.1			
FM	(30°-60°)	1509.5	21.9			
FH	(60°-80°)	1635.4	23.7			G1/1800
FVH	(80°-90°)	23.0	0.3			G1/100
BL	(0°-30°)	284.6	4.1	B1/500		
BM	(30°-60°)	1509.5	21.9	B2/2500		
BH	(60°-80°)	1635.4	23.7	B3/2500		G1/1800
BVH	(80°-90°)	23.0	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°	688.8	688.8	688.8	688.8	688.8	688.8	688.8	688.8	688.8	688.8	688.8
2.5°	691.8	691.8	692.6	692.2	690.9	689.6	688.4	687.1	686.3	685.4	684.6
5°	684.6	684.6	685.8	685.0	684.1	682.9	682.0	680.8	679.9	679.1	679.5
7.5°	675.3	676.1	677.0	676.5	674.8	674.4	673.1	672.7	671.9	670.6	671.0
10°	667.2	667.7	668.5	668.1	667.7	666.4	666.0	665.5	665.1	663.4	663.0
12.5°	659.2	660.0	660.9	661.3	660.9	661.3	661.7	662.2	661.7	660.9	660.9
15°	652.9	653.7	655.0	656.2	656.7	659.2	660.9	662.6	663.8	664.3	663.0
17.5°	649.5	650.7	652.4	655.0	657.1	660.0	663.0	665.5	667.7	668.1	666.8
20°	649.0	650.3	652.9	655.8	659.6	663.4	668.1	671.9	674.0	675.3	674.0
22.5°	652.0	653.7	657.1	660.9	665.5	670.6	676.5	680.8	685.0	686.7	685.4
25°	660.5	662.2	666.0	670.6	675.7	682.0	687.9	693.4	697.7	699.8	698.1
27.5°	678.2	678.6	682.9	687.9	693.9	699.4	707.0	709.5	712.9	715.0	712.9
30°	703.2	704.0	707.8	715.9	721.4	728.5	732.8	735.3	739.1	741.2	738.7
32.5°	741.2	742.1	745.5	753.1	758.1	763.6	768.7	770.4	774.2	776.7	773.8
35°	794.9	796.6	799.6	804.7	808.9	813.1	816.9	815.6	818.2	821.6	818.6
37.5°	868.5	868.1	868.9	872.7	877.0	879.5	885.4	882.5	885.0	887.9	886.3
40°	954.3	954.3	953.9	960.7	962.4	964.9	971.2	967.4	970.8	974.2	971.2
42.5°	1052.0	1053.7	1055.8	1061.3	1066.0	1066.8	1069.8	1068.1	1072.3	1075.3	1072.3
45°	1164.5	1167.0	1169.6	1182.2	1184.4	1186.0	1188.2	1182.7	1187.3	1189.9	1189.0
47.5°	1281.2	1285.8	1291.3	1304.4	1312.9	1316.7	1318.4	1312.0	1312.5	1316.3	1316.7
50°	1413.1	1418.2	1423.7	1438.5	1446.5	1453.3	1455.4	1448.2	1449.0	1452.0	1452.9
52.5°	1534.9	1540.8	1552.6	1572.5	1583.9	1595.8	1596.6	1587.7	1591.5	1593.7	1592.0
55°	1649.5	1657.1	1672.7	1699.4	1720.1	1743.3	1753.9	1744.2	1744.2	1742.5	1741.6
57.5°	1783.1	1791.5	1807.6	1838.5	1867.2	1900.6	1929.4	1939.1	1956.9	1962.8	1953.5
60°	1984.4	1993.2	2009.7	2050.3	2086.7	2135.3	2182.7	2221.1	2283.7	2317.5	2287.1
62.5°	2168.3	2181.8	2220.7	2291.8	2370.4	2460.5	2564.9	2639.3	2753.1	2809.7	2733.2
65°	2126.4	2153.9	2230.0	2341.6	2504.0	2699.4	2912.0	3116.3	3351.4	3471.9	3316.3
67.5°	1857.5	1880.8	1962.8	2092.6	2295.1	2564.5	2895.1	3318.0	3803.0	4028.7	3753.5
68°	1754.8	1798.3	1879.9	2008.9	2213.1	2477.8	2830.9	3287.5	3816.9	4060.9	3763.6
70°	1345.5	1361.1	1439.3	1555.2	1775.5	2035.1	2391.5	2912.0	3510.4	3761.5	3455.8
72.5°	639.3	648.6	699.4	813.5	953.5	1164.9	1479.5	1970.4	2509.5	2770.8	2466.0
75°	234.2	236.4	248.2	275.3	327.7	407.2	558.1	863.4	1278.2	1524.3	1283.3
77.5°	126.4	126.8	131.5	138.3	147.6	158.1	181.0	242.7	391.5	532.8	413.5
80°	79.5	79.1	83.7	89.2	95.6	100.6	102.7	109.9	123.9	145.0	133.2
82.5°	40.6	44.4	55.0	60.9	70.2	71.9	69.8	69.3	73.6	79.5	82.0
85°	22.4	19.9	29.2	38.9	42.3	43.6	44.0	41.4	40.6	39.7	41.9
87.5°	11.4	10.6	12.7	19.5	20.7	16.9	17.3	14.8	10.1	10.1	10.6
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°	688.8	688.8	688.8	688.8	688.8	688.8	688.8	688.8
2.5°	683.7	684.1	683.3	683.3	683.3	683.7	683.3	682.9
5°	678.2	679.1	679.1	679.5	679.9	679.9	679.9	679.9
7.5°	670.2	670.6	671.5	671.5	671.5	671.5	671.5	671.5
10°	662.6	661.7	661.3	660.5	660.5	659.2	659.6	660.0
12.5°	658.8	657.1	656.2	655.0	654.1	652.9	652.9	653.3
15°	660.5	657.9	655.4	654.5	653.7	652.9	652.0	652.4
17.5°	663.8	660.9	657.9	656.2	654.5	653.3	652.9	653.3
20°	671.0	666.8	662.2	659.2	655.8	655.0	653.7	655.0
22.5°	680.8	675.7	669.8	664.3	660.5	658.8	657.1	658.4
25°	692.6	687.1	681.2	674.8	670.6	669.3	667.2	667.2
27.5°	709.1	704.4	699.4	693.4	689.2	687.9	684.6	684.6
30°	735.3	730.7	726.0	720.9	716.7	715.4	711.2	711.2
32.5°	770.0	764.9	761.9	757.7	754.3	752.2	747.1	746.7
35°	816.5	811.8	811.4	808.5	805.1	805.5	800.4	799.6
37.5°	883.3	879.5	880.8	878.2	875.3	877.8	874.8	874.8
40°	968.7	967.4	968.7	967.0	967.4	967.9	965.3	966.2
42.5°	1071.9	1068.5	1076.1	1075.3	1074.0	1077.4	1071.5	1067.2
45°	1190.7	1189.4	1197.0	1198.3	1195.8	1197.9	1187.3	1186.9
47.5°	1319.7	1319.7	1326.4	1325.6	1323.0	1323.5	1310.8	1302.7
50°	1454.1	1453.3	1460.0	1458.3	1455.0	1454.5	1441.4	1433.4
52.5°	1594.1	1594.1	1603.8	1599.2	1591.1	1587.3	1571.2	1560.7
55°	1748.8	1746.7	1749.7	1734.5	1718.8	1707.4	1687.5	1679.5
57.5°	1944.6	1920.1	1898.9	1879.5	1857.5	1844.0	1820.7	1812.3
60°	2222.4	2156.9	2128.5	2089.6	2053.3	2035.1	2004.2	1987.7
62.5°	2607.2	2498.5	2421.6	2335.7	2252.9	2194.5	2147.6	2126.8
65°	3052.0	2815.2	2619.4	2435.5	2279.5	2155.6	2086.7	2065.1
67.5°	3221.1	2786.5	2448.6	2184.8	1995.3	1847.8	1765.3	1748.0
68°	3185.2	2720.5	2369.6	2099.4	1909.1	1760.3	1678.2	1662.6
70°	2809.7	2295.1	1924.7	1655.8	1478.2	1336.6	1278.6	1253.7
72.5°	1915.4	1474.0	1130.7	904.4	771.7	682.0	628.8	610.6
75°	881.6	595.8	397.9	297.3	252.4	230.9	214.4	210.1
77.5°	257.1	186.9	160.7	148.8	140.0	132.3	126.8	126.4
80°	122.2	114.6	111.2	103.6	95.6	88.4	83.3	84.1
82.5°	82.0	79.9	79.9	72.3	59.6	51.2	42.3	38.1
85°	43.6	45.2	47.8	45.2	39.3	29.2	19.0	20.7
87.5°	14.8	16.9	17.8	17.3	15.6	11.8	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)