

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: P271290

Luminaire Tested: **XNV2-AF-02-LED-U-5WQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271290
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24131)
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-5WQ-7027-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7181.5 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

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

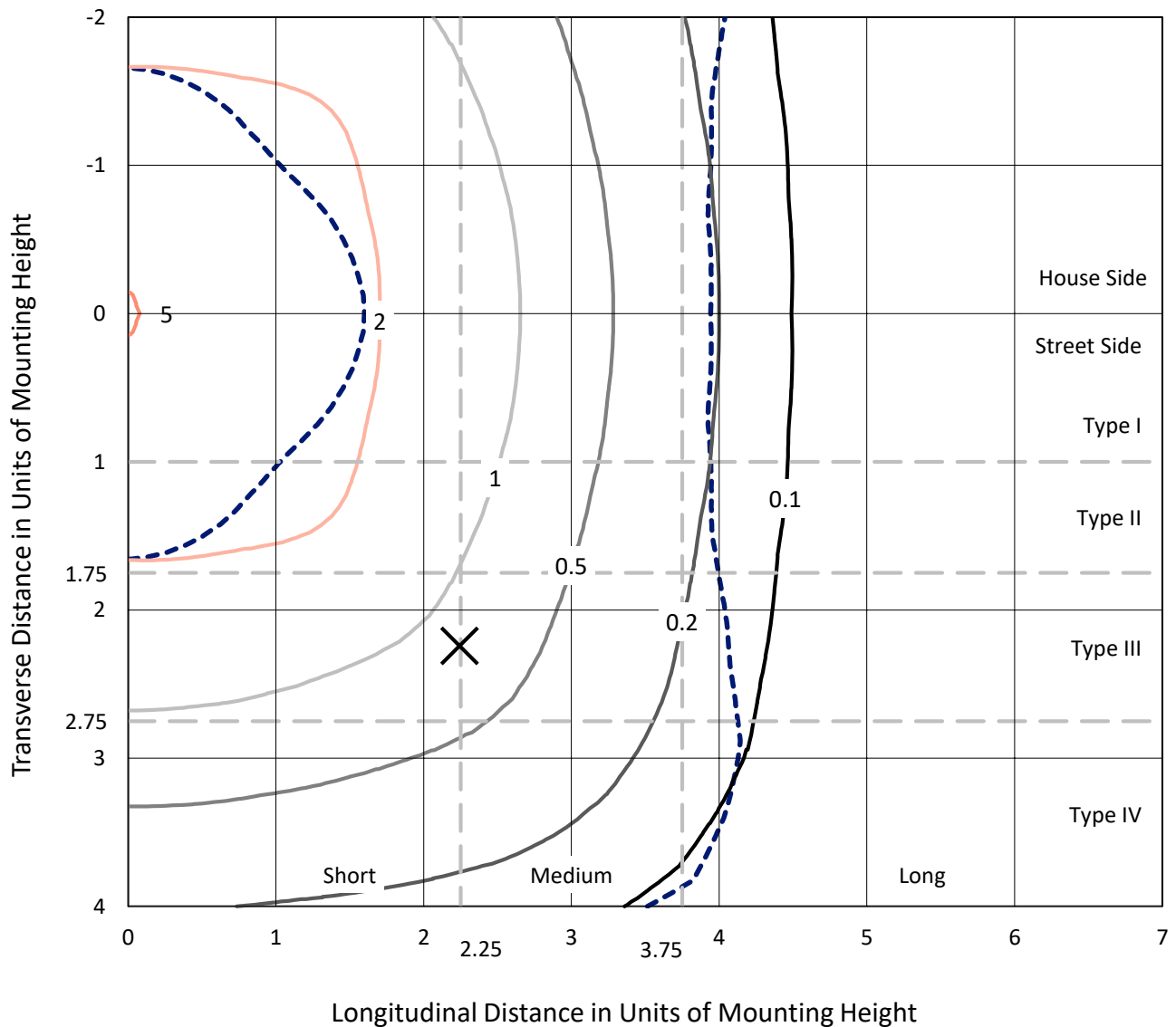


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

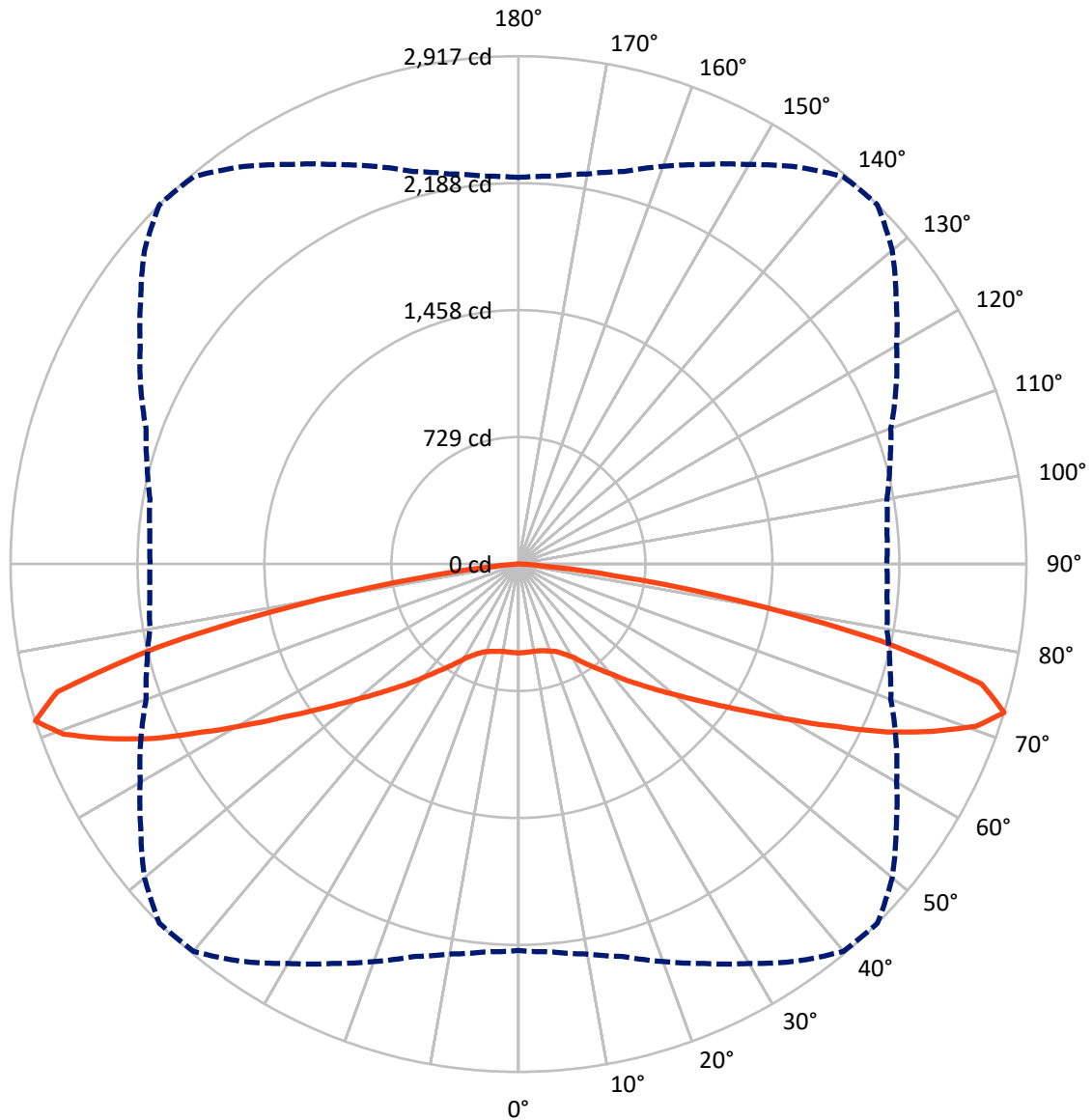


Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3590.7	0.0	3590.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3590.7	0.0	3590.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	7181.5	0.0	7181.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	0.7
10°-20°	147.5	2.1
20°-30°	266.2	3.7
30°-40°	454.1	6.3
40°-50°	773.2	10.8
50°-60°	1244.3	17.3
60°-70°	2069.3	28.8
70°-80°	2001.9	27.9
80°-90°	176.2	2.5
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°	7181.5	100.0
0°-180°	7181.5	100.0



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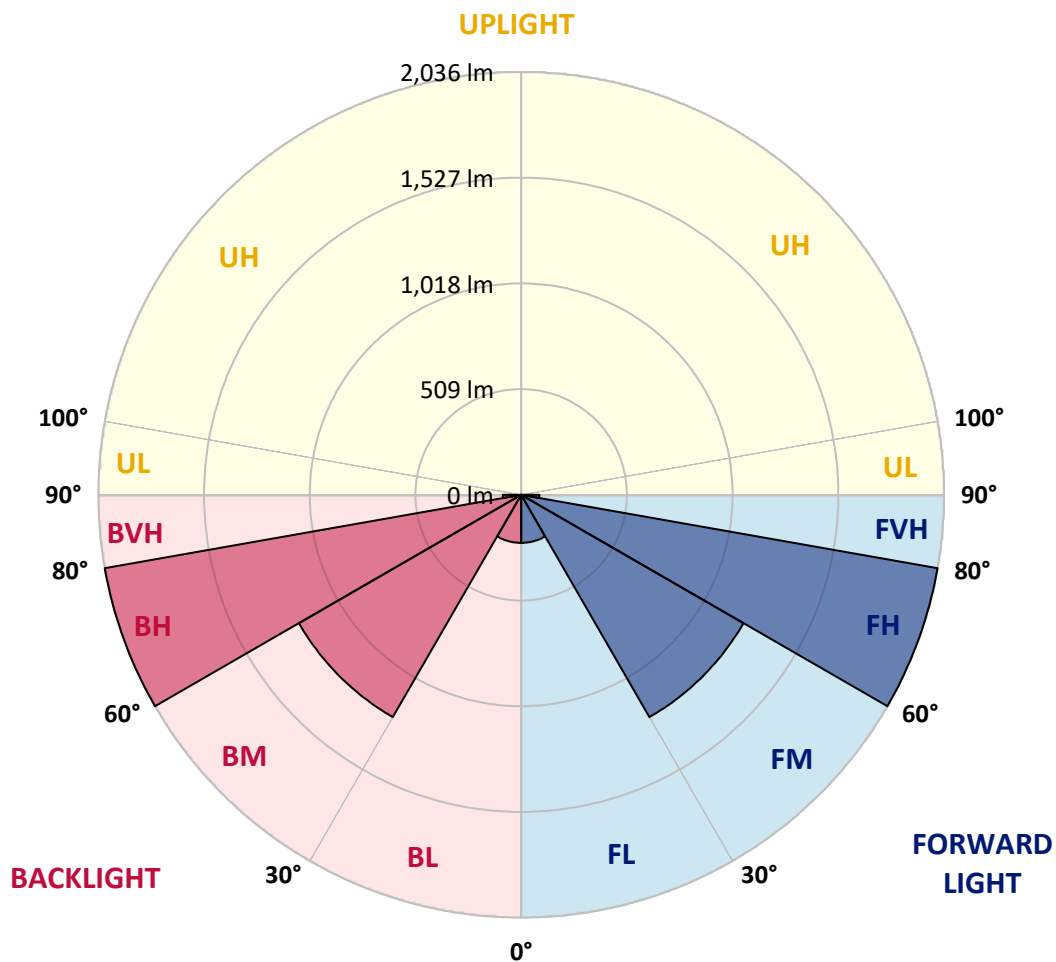
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	231.2	3.2			
FM (30°-60°)	1235.8	17.2			
FH (60°-80°)	2035.6	28.3			G2/5000
FVH (80°-90°)	88.1	1.2			G1/100
BL (0°-30°)	231.2	3.2	B1/500		
BM (30°-60°)	1235.8	17.2	B2/2500		
BH (60°-80°)	2035.6	28.3	B3/2500		G2/5000
BVH (80°-90°)	88.1	1.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5
2.5°	514.5	514.5	515.0	514.5	513.7	513.2	511.9	511.0	510.1	509.7	508.8
5°	515.0	515.0	515.4	515.0	514.1	513.2	512.4	511.0	510.1	509.2	508.8
7.5°	516.7	517.2	517.7	517.2	515.4	514.5	513.2	511.9	510.1	509.2	508.4
10°	520.3	520.3	520.3	519.8	518.5	516.7	515.0	513.7	511.5	509.2	507.9
12.5°	523.0	523.4	523.4	522.5	520.7	518.5	516.7	515.4	513.7	511.9	510.5
15°	526.9	526.9	526.4	524.7	522.0	520.3	519.4	519.0	518.5	517.7	516.3
17.5°	534.9	534.4	533.1	530.4	527.3	526.0	525.1	525.1	525.1	524.7	523.8
20°	546.3	546.3	544.6	540.2	537.5	536.2	534.9	534.9	534.9	533.6	532.2
22.5°	564.9	565.4	562.7	557.4	553.9	551.2	549.5	548.1	546.8	545.9	543.7
25°	590.1	589.6	586.6	579.9	577.3	574.6	571.1	568.8	567.1	565.8	563.1
27.5°	616.6	616.1	612.6	607.0	605.2	601.1	598.5	595.4	593.2	591.1	588.3
30°	650.7	648.4	645.8	641.4	640.5	637.3	633.8	629.4	625.8	622.3	619.3
32.5°	681.2	681.2	677.2	674.9	676.8	675.4	675.9	673.2	671.0	669.6	666.6
35°	723.7	723.7	721.9	719.3	719.6	716.6	716.0	716.6	718.4	718.4	714.8
37.5°	780.2	781.0	775.3	774.5	772.3	767.8	765.6	766.6	770.4	772.7	767.8
40°	850.4	852.2	850.4	844.8	842.2	834.5	830.2	830.2	833.3	835.5	833.6
42.5°	919.9	923.0	919.9	915.5	913.2	907.5	905.3	907.1	911.1	913.7	911.1
45°	997.2	999.5	995.4	990.1	987.4	984.5	983.0	984.5	988.9	991.5	990.7
47.5°	1073.3	1076.3	1071.5	1069.3	1069.3	1066.2	1069.7	1073.3	1077.2	1083.4	1080.8
50°	1147.6	1151.4	1148.5	1148.8	1152.3	1158.2	1164.7	1171.7	1178.9	1185.6	1186.4
52.5°	1213.8	1220.0	1220.4	1228.4	1239.5	1248.4	1266.9	1282.3	1299.2	1304.9	1302.3
55°	1283.7	1292.0	1303.1	1315.5	1333.2	1351.3	1382.8	1410.5	1432.6	1446.4	1444.1
57.5°	1383.6	1392.0	1403.4	1423.9	1450.4	1475.0	1518.0	1561.3	1594.9	1615.6	1605.5
60°	1513.0	1521.9	1537.0	1558.6	1593.1	1626.7	1685.5	1747.8	1799.9	1823.7	1805.2
62.5°	1684.6	1692.9	1702.6	1731.5	1769.9	1813.1	1887.1	1967.1	2033.4	2056.3	2030.3
65°	1929.0	1939.3	1942.3	1965.8	2003.3	2043.6	2123.1	2213.2	2288.8	2326.4	2274.2
67.5°	2204.4	2208.5	2220.8	2248.2	2286.6	2322.8	2385.7	2471.0	2543.6	2564.2	2508.5
70°	2365.7	2373.7	2395.4	2433.4	2479.4	2536.5	2604.9	2696.8	2779.0	2788.8	2718.1
72.5°	2219.9	2236.2	2274.7	2333.9	2430.4	2531.6	2649.6	2785.3	2903.3	2916.9	2803.4
75°	1780.5	1799.0	1845.1	1910.1	2024.2	2174.3	2344.9	2548.9	2725.5	2748.2	2597.9
77.5°	949.1	972.1	1038.8	1126.4	1289.0	1488.0	1693.5	1926.0	2076.3	2127.0	2018.9
80°	239.2	251.5	283.8	335.1	445.1	605.5	782.9	1033.1	1219.5	1298.7	1219.5
82.5°	92.9	102.0	110.9	117.0	127.7	149.8	206.9	337.3	454.5	559.6	484.5
85°	35.8	38.0	54.7	62.3	62.3	68.5	78.7	92.9	115.0	125.6	105.2
87.5°	14.2	15.5	19.0	29.1	30.1	26.5	28.2	31.8	24.3	20.3	22.9
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°	510.5	510.5	510.5	510.5	510.5	510.5	510.5	510.5
2.5°	508.4	507.9	507.1	507.5	507.1	507.1	507.1	507.1
5°	507.9	507.9	507.1	507.1	507.1	507.5	507.1	507.1
7.5°	507.5	507.1	506.1	505.7	505.7	505.2	505.2	505.2
10°	506.6	505.7	504.8	504.4	504.4	503.5	503.5	503.5
12.5°	508.8	507.5	506.6	506.1	506.1	506.1	506.6	506.6
15°	515.0	512.4	511.0	510.5	511.0	511.9	512.4	512.8
17.5°	521.6	519.0	516.7	515.8	516.3	517.7	519.0	519.8
20°	530.0	527.8	525.1	524.3	524.3	526.0	526.9	528.3
22.5°	541.9	540.2	537.9	536.6	535.7	537.9	539.3	540.2
25°	560.9	559.1	557.4	556.1	555.6	557.8	558.7	559.1
27.5°	586.1	584.3	583.4	583.0	581.7	582.6	583.9	583.4
30°	618.8	620.2	618.8	618.8	616.6	617.6	616.6	615.8
32.5°	662.6	661.3	657.3	654.7	651.6	651.6	650.3	648.9
35°	706.3	701.9	699.7	701.0	699.7	700.6	698.4	696.1
37.5°	758.1	755.5	754.9	759.0	758.1	759.0	759.0	755.8
40°	826.6	824.9	828.0	834.5	837.2	836.9	837.7	833.6
42.5°	905.3	902.2	903.5	909.3	912.4	913.2	912.8	909.3
45°	984.0	984.8	984.8	991.0	994.2	996.0	992.7	991.5
47.5°	1072.8	1074.2	1071.0	1075.0	1075.9	1079.0	1076.3	1074.2
50°	1175.3	1170.5	1163.5	1164.7	1164.7	1163.8	1160.8	1158.2
52.5°	1289.8	1278.7	1265.5	1261.1	1256.3	1251.3	1245.2	1240.4
55°	1420.3	1401.3	1377.5	1366.3	1357.1	1346.0	1331.8	1326.9
57.5°	1571.5	1538.7	1506.8	1487.1	1463.1	1448.5	1430.5	1429.6
60°	1750.8	1706.7	1650.5	1620.9	1597.0	1579.8	1566.1	1560.8
62.5°	1958.2	1882.2	1821.7	1789.9	1761.9	1751.3	1734.1	1736.3
65°	2170.8	2093.5	2034.8	2009.1	1983.0	1975.9	1960.0	1965.8
67.5°	2401.1	2337.5	2272.9	2249.0	2225.2	2218.2	2201.7	2206.6
70°	2607.6	2526.7	2453.4	2406.4	2365.7	2333.1	2312.2	2304.0
72.5°	2648.7	2508.5	2393.2	2276.0	2208.5	2149.1	2124.9	2115.6
75°	2379.9	2162.4	1998.0	1860.5	1784.6	1698.2	1689.1	1676.1
77.5°	1851.2	1603.7	1404.8	1228.0	1125.8	1020.7	984.5	957.1
80°	1104.1	848.7	657.7	461.0	376.2	302.8	284.7	265.7
82.5°	395.2	253.3	170.6	133.0	118.9	109.7	102.5	93.2
85°	95.5	80.5	76.0	69.0	68.1	57.9	41.1	36.7
87.5°	30.5	27.8	28.2	26.9	28.2	21.2	17.2	15.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)