

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: P271282

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271282
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-7027-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 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: 7352.3 lumens
Efficiency: N/A
Efficacy: 111.4 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

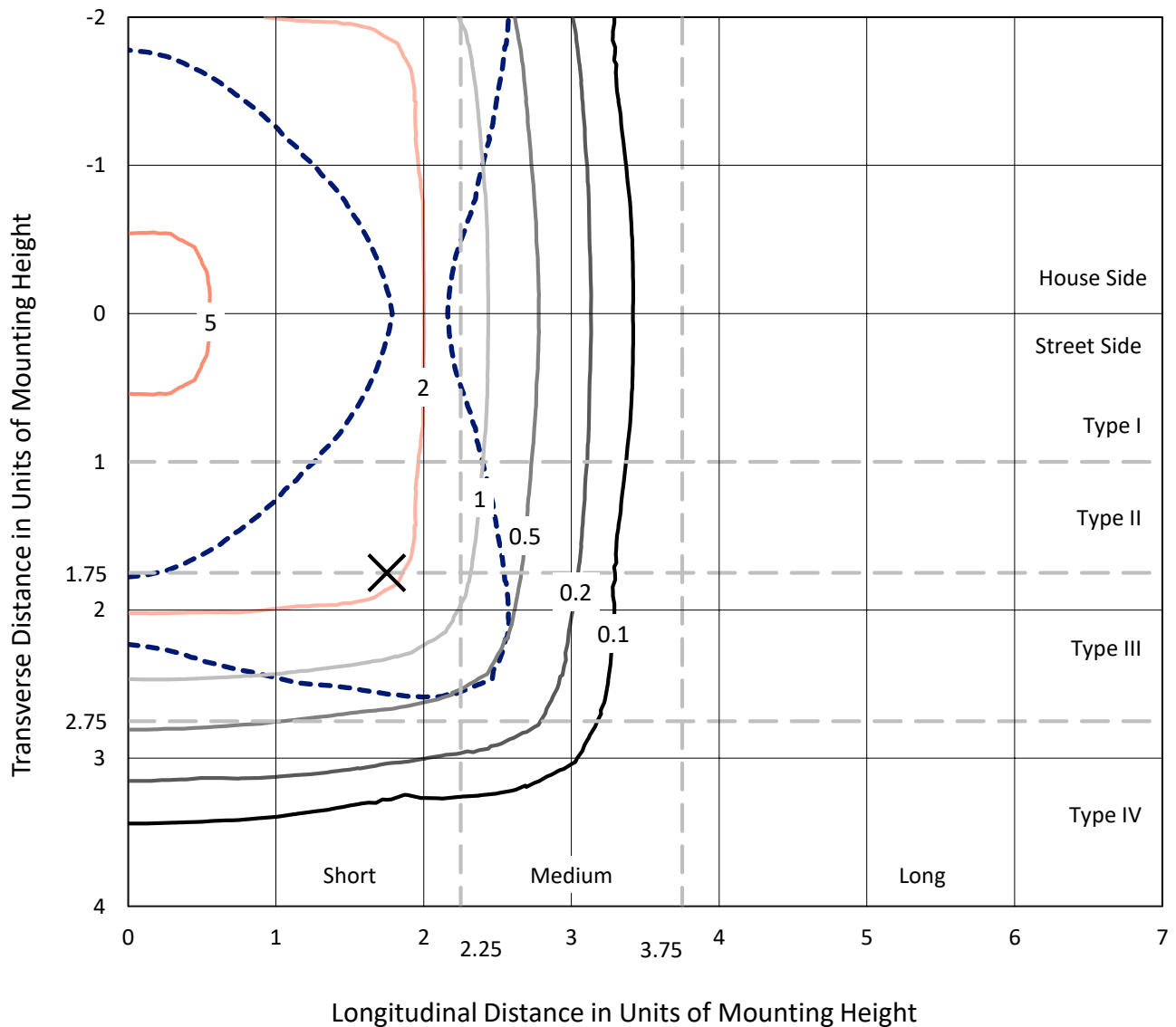
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P271282
 CATALOG NUMBER: XNV2-AF-02-LED-U-5MQ-7027-600

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

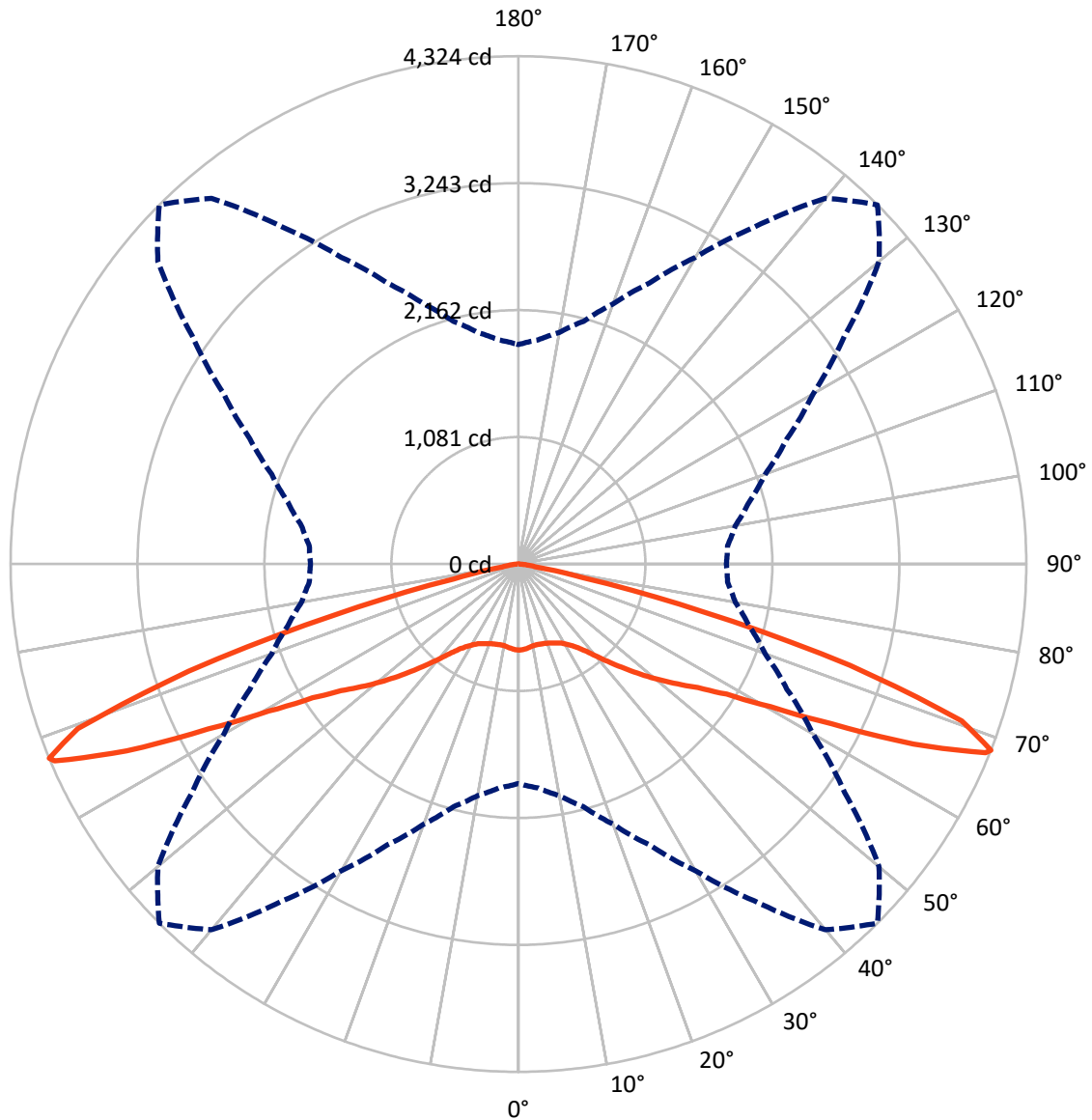


Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P271282

CATALOG NUMBER: XNV2-AF-02-LED-U-5MQ-7027-600

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: XNV2-AF-02-LED-U-5MQ-7027-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3676.1	0.0	3676.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3676.1	0.0	3676.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	7352.3	0.0	7352.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	0.9
10°-20°	199.0	2.7
20°-30°	338.4	4.6
30°-40°	553.7	7.5
40°-50°	989.6	13.5
50°-60°	1671.3	22.7
60°-70°	2591.6	35.2
70°-80°	891.1	12.1
80°-90°	49.0	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°	7352.3	100.0
0°-180°	7352.3	100.0



REPORT NUMBER: P271282

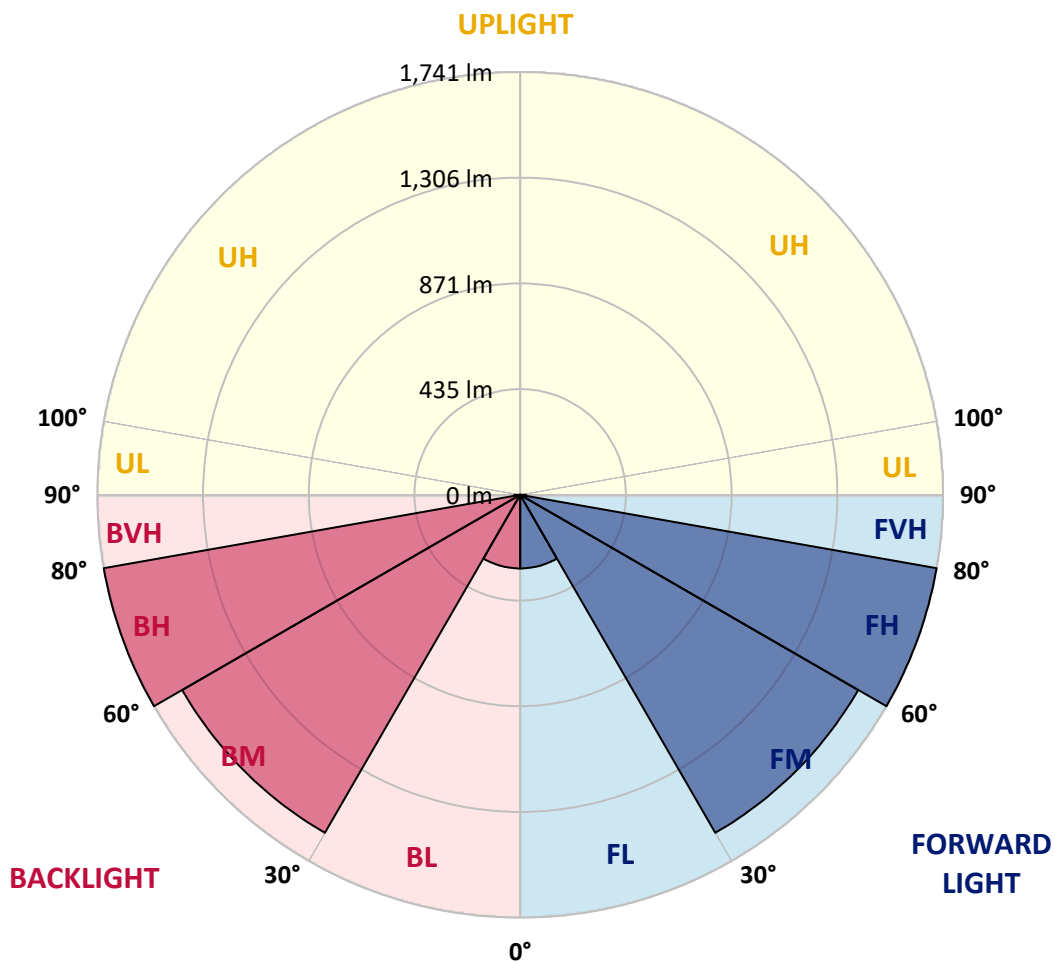
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	303.0	4.1			
FM	(30°-60°)	1607.3	21.9			
FH	(60°-80°)	1741.3	23.7			G1/1800
FVH	(80°-90°)	24.5	0.3			G1/100
BL	(0°-30°)	303.0	4.1	B1/500		
BM	(30°-60°)	1607.3	21.9	B2/2500		
BH	(60°-80°)	1741.3	23.7	B3/2500		G1/1800
BVH	(80°-90°)	24.5	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





REPORT NUMBER: P271282

CATALOG NUMBER: XNV2-AF-02-LED-U-5MQ-7027-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	733.3	733.3	733.3	733.3	733.3	733.3	733.3	733.3	733.3	733.3	733.3
2.5°	736.6	736.6	737.5	737.0	735.6	734.4	732.9	731.6	730.7	729.9	729.0
5°	729.0	729.0	730.2	729.3	728.4	727.1	726.2	724.8	723.9	723.0	723.6
7.5°	719.1	719.9	720.8	720.4	718.6	718.1	716.8	716.3	715.4	714.1	714.5
10°	710.5	710.9	711.7	711.4	710.9	709.5	709.1	708.7	708.3	706.3	706.0
12.5°	701.8	702.8	703.7	704.1	703.7	704.1	704.6	705.1	704.6	703.7	703.7
15°	695.2	696.0	697.4	698.7	699.2	701.8	703.7	705.4	706.8	707.2	706.0
17.5°	691.5	693.0	694.7	697.4	699.6	702.8	706.0	708.7	710.9	711.4	710.0
20°	691.1	692.5	695.2	698.3	702.4	706.3	711.4	715.4	717.7	719.1	717.7
22.5°	694.2	696.0	699.6	703.7	708.7	714.1	720.4	724.8	729.3	731.2	729.9
25°	703.3	705.1	709.1	714.1	719.5	726.2	732.5	738.3	742.9	745.1	743.3
27.5°	722.1	722.5	727.1	732.5	738.9	744.7	752.8	755.5	759.1	761.4	759.1
30°	748.6	749.6	753.7	762.2	768.1	775.7	780.3	783.0	786.9	789.3	786.6
32.5°	789.3	790.1	793.7	801.8	807.2	813.1	818.4	820.3	824.4	827.1	823.9
35°	846.5	848.2	851.4	856.8	861.2	865.7	869.7	868.5	871.1	874.8	871.6
37.5°	924.7	924.3	925.3	929.2	933.8	936.5	942.9	939.5	942.3	945.5	943.7
40°	1016.2	1016.2	1015.8	1022.9	1024.6	1027.4	1034.2	1030.0	1033.7	1037.4	1034.2
42.5°	1120.1	1122.0	1124.1	1130.1	1135.0	1135.8	1139.1	1137.3	1141.7	1144.9	1141.7
45°	1239.9	1242.6	1245.3	1258.9	1261.1	1262.8	1265.2	1259.2	1264.3	1266.9	1266.0
47.5°	1364.2	1369.1	1374.9	1388.9	1397.9	1402.0	1403.8	1397.0	1397.6	1401.5	1402.0
50°	1504.7	1510.1	1515.9	1531.7	1540.2	1547.4	1549.7	1542.0	1542.8	1546.1	1547.1
52.5°	1634.2	1640.7	1653.2	1674.4	1686.6	1699.1	1700.0	1690.6	1694.7	1696.9	1695.1
55°	1756.4	1764.5	1781.1	1809.5	1831.6	1856.3	1867.5	1857.2	1857.2	1855.4	1854.6
57.5°	1898.6	1907.6	1924.7	1957.5	1988.2	2023.7	2054.3	2064.8	2083.6	2089.9	2080.0
60°	2113.0	2122.3	2139.9	2183.2	2221.9	2273.6	2324.1	2365.0	2431.6	2467.6	2435.2
62.5°	2308.7	2323.1	2364.6	2440.2	2524.0	2619.8	2731.0	2810.3	2931.3	2991.7	2910.1
65°	2264.2	2293.5	2374.5	2493.3	2666.2	2874.1	3100.7	3318.1	3568.4	3696.7	3531.1
67.5°	1977.8	2002.6	2089.9	2228.2	2443.7	2730.6	3082.7	3532.9	4049.3	4289.8	3996.6
68°	1868.5	1914.7	2001.8	2139.0	2356.4	2638.3	3014.3	3500.4	4064.1	4323.9	4007.3
70°	1432.5	1449.2	1532.6	1655.9	1890.6	2166.9	2546.4	3100.7	3737.8	4005.2	3679.6
72.5°	680.7	690.6	744.7	866.2	1015.3	1240.4	1575.3	2098.0	2672.1	2950.4	2625.7
75°	249.4	251.6	264.3	293.0	348.9	433.5	594.3	919.3	1361.0	1623.1	1366.4
77.5°	134.7	135.0	140.0	147.2	157.2	168.4	192.6	258.4	417.0	567.3	440.3
80°	84.6	84.3	89.1	95.0	101.8	107.2	109.5	117.0	132.0	154.4	141.8
82.5°	43.2	47.3	58.5	64.9	74.6	76.5	74.3	73.8	78.3	84.6	87.3
85°	23.9	21.2	31.1	41.4	45.0	46.4	46.8	44.1	43.2	42.3	44.6
87.5°	12.1	11.3	13.6	20.8	22.1	18.0	18.4	15.8	10.8	10.8	11.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P271282

CATALOG NUMBER: XNV2-AF-02-LED-U-5MQ-7027-600

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	733.3	733.3	733.3	733.3	733.3	733.3	733.3	733.3
2.5°	727.9	728.4	727.5	727.5	727.5	727.9	727.5	727.1
5°	722.1	723.0	723.0	723.6	723.9	723.9	723.9	723.9
7.5°	713.7	714.1	715.0	715.0	715.0	715.0	715.0	715.0
10°	705.4	704.6	704.1	703.3	703.3	701.8	702.4	702.8
12.5°	701.4	699.6	698.7	697.4	696.5	695.2	695.2	695.6
15°	703.3	700.6	697.9	696.9	696.0	695.2	694.2	694.7
17.5°	706.8	703.7	700.6	698.7	696.9	695.6	695.2	695.6
20°	714.5	710.0	705.1	701.8	698.3	697.4	696.0	697.4
22.5°	724.8	719.5	713.2	707.2	703.3	701.4	699.6	700.9
25°	737.5	731.6	725.3	718.6	714.1	712.6	710.5	710.5
27.5°	755.0	750.1	744.7	738.3	733.8	732.5	729.0	729.0
30°	783.0	778.0	773.0	767.6	763.1	761.8	757.4	757.4
32.5°	819.9	814.5	811.3	806.8	803.3	801.0	795.5	795.1
35°	869.4	864.3	864.0	860.8	857.3	857.7	852.3	851.4
37.5°	940.5	936.5	937.8	935.1	931.9	934.6	931.5	931.5
40°	1031.4	1030.0	1031.4	1029.6	1030.0	1030.5	1027.9	1028.7
42.5°	1141.2	1137.8	1145.8	1144.9	1143.5	1147.1	1140.8	1136.4
45°	1267.8	1266.5	1274.5	1276.0	1273.3	1275.5	1264.3	1263.7
47.5°	1405.2	1405.2	1412.3	1411.4	1408.7	1409.3	1395.6	1387.2
50°	1548.3	1547.4	1554.5	1552.8	1549.1	1548.8	1534.8	1526.2
52.5°	1697.3	1697.3	1707.7	1702.7	1694.3	1690.2	1673.1	1661.8
55°	1862.1	1859.9	1863.1	1846.8	1830.1	1818.0	1796.8	1788.3
57.5°	2070.6	2044.5	2021.9	2001.2	1977.8	1963.4	1938.6	1929.6
60°	2366.3	2296.5	2266.5	2225.0	2186.3	2166.9	2134.1	2116.4
62.5°	2776.0	2660.4	2578.4	2487.0	2398.7	2336.6	2286.6	2264.5
65°	3249.7	2997.6	2789.1	2593.2	2427.1	2295.2	2221.9	2199.0
67.5°	3429.8	2966.9	2607.2	2326.3	2124.6	1967.5	1879.7	1861.2
68°	3391.6	2896.8	2523.0	2235.3	2032.8	1874.3	1786.9	1770.3
70°	2991.7	2443.7	2049.5	1763.1	1574.0	1423.2	1361.6	1334.9
72.5°	2039.5	1569.5	1203.9	963.1	821.7	726.2	669.4	650.2
75°	938.6	634.4	423.7	316.6	268.9	245.9	228.3	223.8
77.5°	273.8	199.1	171.0	158.6	148.9	140.9	135.0	134.7
80°	130.2	122.0	118.3	110.3	101.8	94.1	88.8	89.7
82.5°	87.3	85.1	85.1	77.0	63.5	54.4	45.0	40.6
85°	46.4	48.1	50.8	48.1	42.0	31.1	20.2	22.1
87.5°	15.8	18.0	19.0	18.4	16.7	12.5	9.4	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)