

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: P198858

Luminaire Tested: **XNV-AF-01-LED-U-SL2-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198858  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24257)  
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-SL2-7050-600  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3907 lumens  
Efficiency: N/A  
Efficacy: 114.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

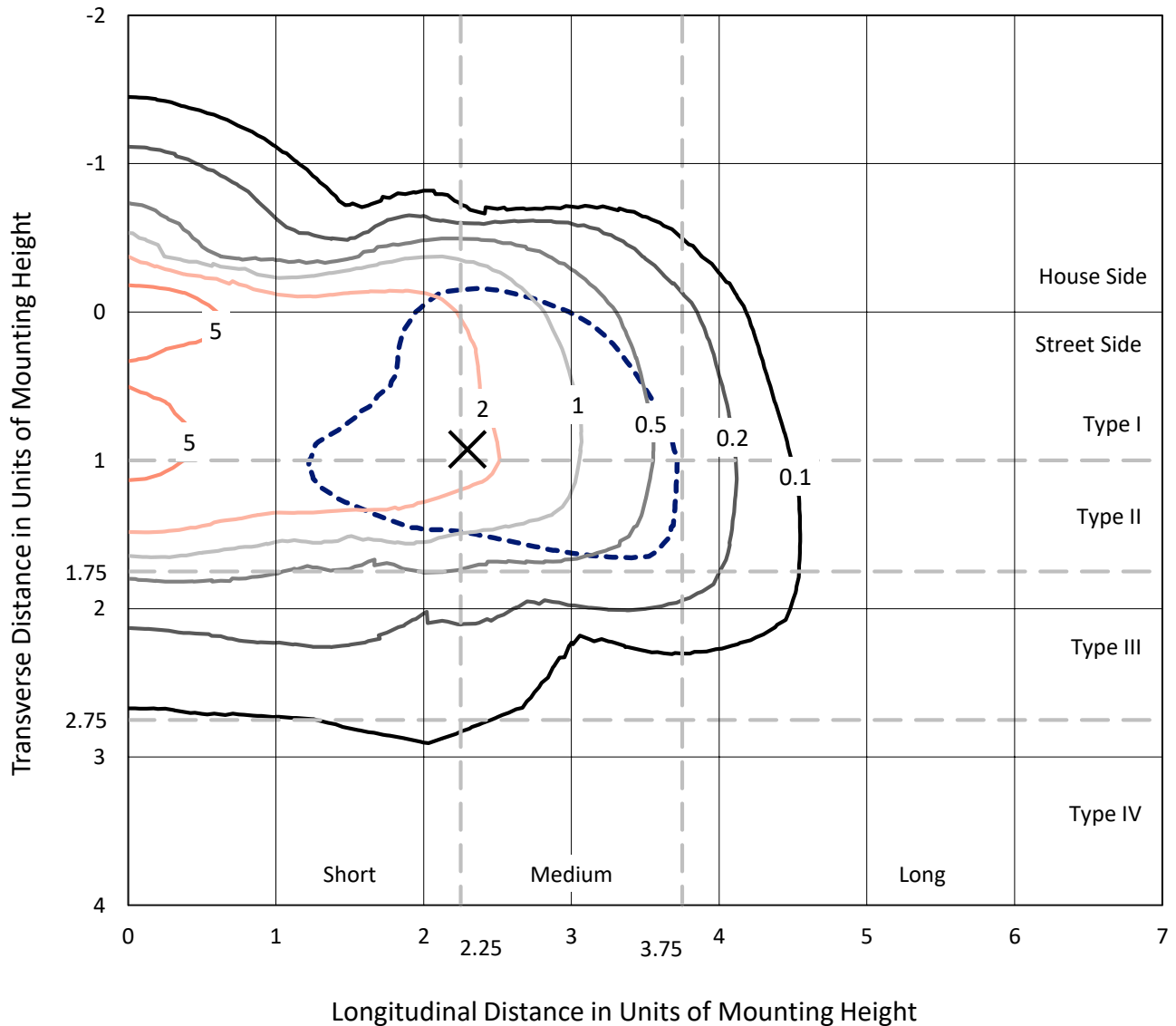
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P198858  
 CATALOG NUMBER: XNV-AF-01-LED-U-SL2-7050-600

### Iso-Footcandle Lines of Horizontal Illumination

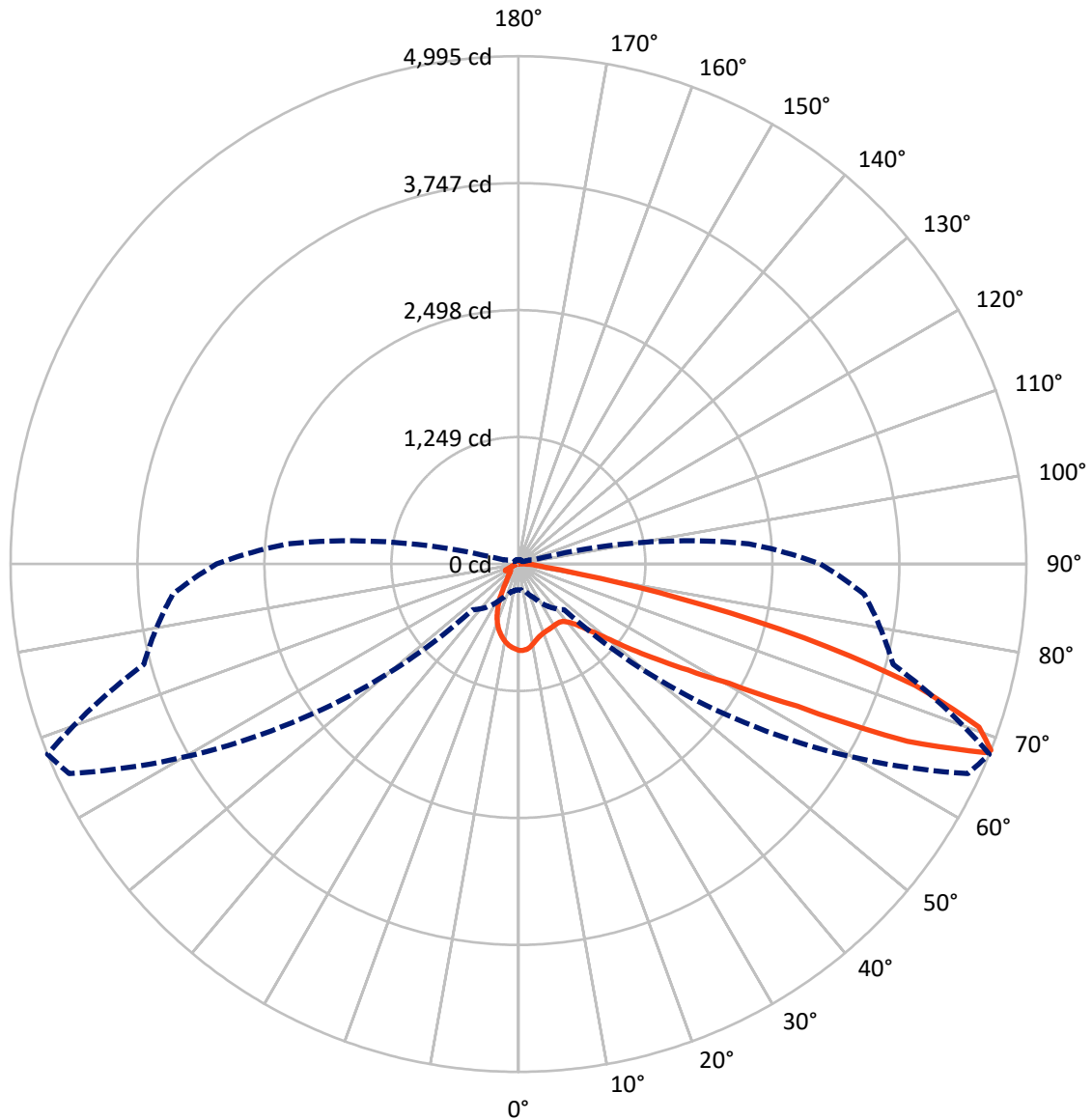
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 fc  
 Type II - Medium - Semi-Cutoff

REPORT NUMBER: P198858  
CATALOG NUMBER: XNV-AF-01-LED-U-SL2-7050-600

### Luminous Intensity Polar Plot



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



REPORT NUMBER: P198858

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-7050-600

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	639.2	0.0	639.2
	% Fixture	16.4	0.0	16.4
<b>Street Side</b>	Lumens	3267.8	0.0	3267.8
	% Fixture	83.6	0.0	83.6
<b>Total</b>	Lumens	3907.0	0.0	3907.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.8	1.9
10°-20°	168.9	4.3
20°-30°	228.5	5.8
30°-40°	322.2	8.2
40°-50°	529.8	13.6
50°-60°	821.2	21.0
60°-70°	1064.7	27.3
70°-80°	611.0	15.6
80°-90°	87.9	2.3
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°	3907.0	100.0
0°-180°	3907.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P198858

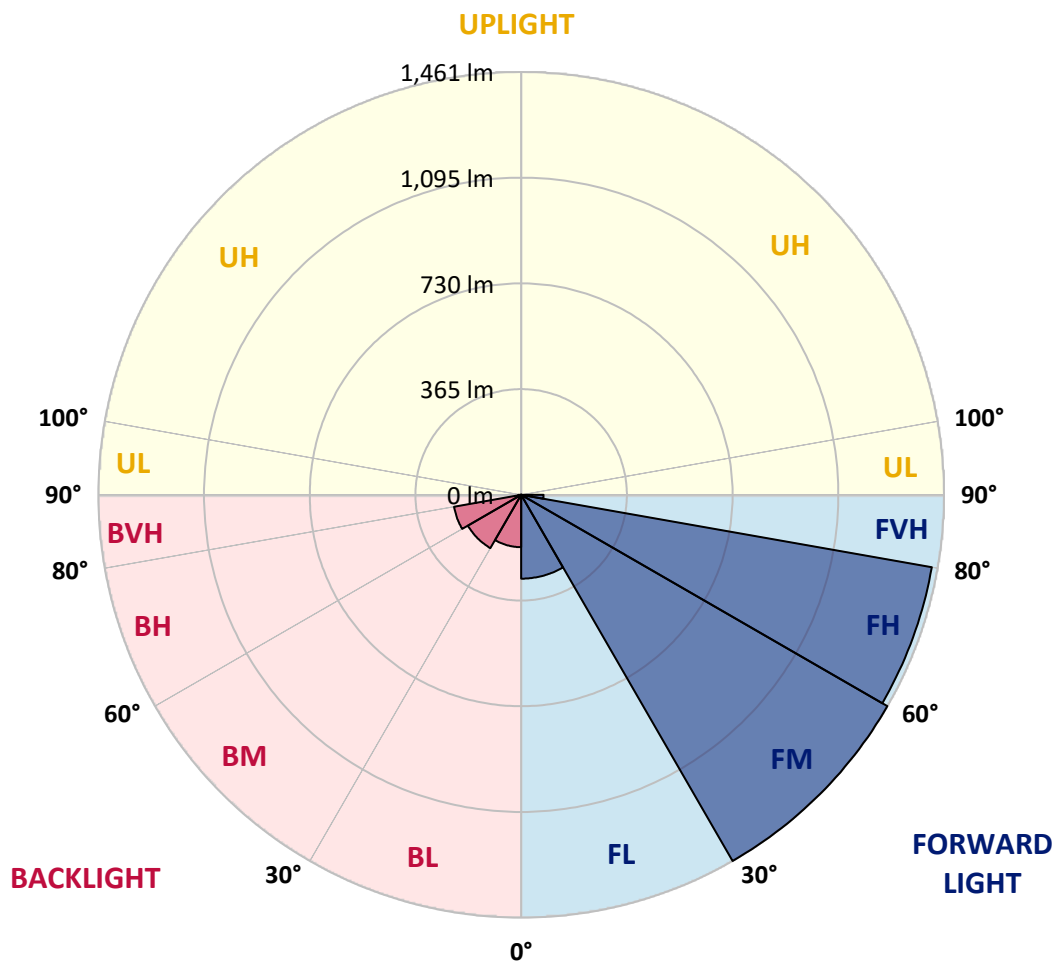
CATALOG NUMBER: XNV-AF-01-LED-U-SL2-7050-600

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	289.6	7.4			
FM	(30°-60°)	1460.5	37.4			
FH	(60°-80°)	1440.3	36.9			G1/1800
FVH	(80°-90°)	77.4	2.0			G1/100
BL	(0°-30°)	180.7	4.6	B1/500		
BM	(30°-60°)	212.6	5.4	B0/220		
BH	(60°-80°)	235.4	6.0	B1/500		G1/500
BVH	(80°-90°)	10.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Medium





REPORT NUMBER: P198858

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-7050-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	850.1	850.1	850.1	850.1	850.1	850.1	850.1	850.1	850.1	850.1	850.1
2.5°	827.4	834.0	834.0	838.9	843.2	846.8	849.9	849.9	849.9	847.8	846.0
5°	740.4	749.3	750.6	762.8	778.9	798.6	820.5	839.9	843.7	850.9	853.7
7.5°	679.9	682.7	687.6	696.0	712.3	736.6	771.0	814.4	824.9	847.3	859.1
10°	637.0	639.3	643.4	651.8	666.6	688.6	722.5	778.9	796.3	836.1	859.3
12.5°	605.6	607.4	611.2	618.9	634.0	653.6	688.3	747.0	768.5	824.9	862.9
15°	581.1	584.2	587.3	594.7	610.0	628.9	664.1	723.8	747.0	815.9	869.5
17.5°	571.4	573.0	573.5	577.3	591.1	610.2	645.4	707.5	731.5	808.8	874.6
20°	577.6	577.8	572.7	570.2	578.1	595.7	629.9	695.2	719.7	802.4	876.7
22.5°	604.4	604.4	591.1	579.9	574.5	585.5	619.4	686.8	713.3	797.6	876.7
25°	655.4	653.1	632.4	610.2	586.5	581.9	612.8	681.4	708.5	795.0	873.4
27.5°	722.5	720.5	694.2	661.3	618.4	589.6	610.5	677.1	703.6	791.2	866.2
30°	804.2	802.4	772.5	729.4	666.1	613.8	615.8	674.0	699.8	784.8	854.2
32.5°	885.6	884.6	860.8	816.7	732.0	654.9	629.9	673.5	697.8	777.1	839.7
35°	967.5	967.5	953.0	915.7	820.5	716.6	659.2	683.0	701.6	773.1	827.2
37.5°	1088.5	1083.7	1056.6	1018.1	932.1	796.8	706.7	702.9	716.4	779.9	823.1
40°	1275.8	1261.8	1194.2	1129.3	1053.8	899.4	776.1	741.4	749.6	803.4	832.8
42.5°	1471.8	1449.6	1360.1	1256.4	1179.6	1026.0	867.2	803.9	803.7	848.9	863.7
45°	1640.0	1628.5	1531.6	1400.1	1323.3	1168.4	982.3	896.8	887.6	919.3	923.1
47.5°	1737.8	1730.1	1671.7	1552.2	1493.8	1336.6	1128.3	1025.7	1008.4	1027.2	1021.4
50°	1710.7	1718.1	1701.3	1640.3	1677.0	1572.9	1314.4	1202.3	1169.4	1188.3	1174.0
52.5°	1568.3	1588.2	1603.3	1615.0	1782.4	1889.1	1548.1	1422.8	1395.5	1392.2	1378.4
55°	1311.8	1343.5	1390.9	1477.2	1754.1	2143.1	1956.5	1689.5	1649.7	1628.8	1634.2
57.5°	892.7	940.7	1043.1	1207.2	1606.8	2251.3	2560.3	2034.1	1966.7	1892.2	1909.5
60°	491.8	531.9	653.6	819.0	1270.7	2235.2	3095.5	2594.0	2381.9	2184.4	2220.1
62.5°	318.3	326.9	417.5	559.4	779.9	1973.3	3392.9	3529.9	3080.5	2569.8	2620.1
65°	255.7	261.9	306.3	451.2	543.4	1269.5	3406.1	4500.8	4204.4	3093.5	3095.0
67.5°	249.9	252.7	278.4	379.5	509.7	691.1	2944.2	4883.6	4952.2	3711.6	3412.8
68°	253.4	256.7	282.8	367.8	509.4	637.0	2721.1	4877.7	4995.4	3815.0	3412.8
70°	223.6	227.7	288.4	380.5	487.7	547.7	1863.3	4618.7	4808.0	4052.6	3238.2
72.5°	116.9	113.6	142.7	300.4	549.0	570.7	984.4	3858.6	4079.6	3753.2	2797.7
75°	91.1	82.9	79.9	118.7	482.9	591.8	571.7	2742.6	2909.5	2705.6	1870.0
77.5°	85.8	75.8	69.9	70.2	212.6	615.8	462.5	1614.0	1614.0	1290.6	596.7
80°	68.9	59.7	55.9	63.8	102.6	567.6	482.6	735.5	627.3	333.6	164.4
82.5°	45.4	40.6	40.8	51.8	77.8	379.0	558.9	363.2	272.8	147.8	96.7
85°	28.8	24.8	27.6	36.2	58.2	169.0	553.3	252.4	180.7	82.9	48.2
87.5°	14.5	11.2	13.8	18.9	35.5	48.5	455.6	225.4	134.0	34.5	26.3
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: P198858

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-7050-600

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	850.1	850.1	850.1	850.1	850.1	850.1	850.1	850.1	850.1	850.1	850.1
2.5°	846.0	840.4	837.6	833.0	827.4	821.8	818.0	816.2	815.2	815.7	815.4
5°	852.2	844.8	832.8	815.7	798.1	779.4	765.1	754.2	747.3	745.2	744.7
7.5°	856.8	846.0	823.6	792.4	762.3	729.7	701.8	679.6	664.6	657.7	657.4
10°	856.0	842.2	806.7	760.8	716.6	668.7	625.0	587.8	560.7	547.7	547.2
12.5°	856.8	837.9	786.1	723.8	660.5	591.8	527.0	469.1	428.8	409.6	408.9
15°	859.8	833.3	764.9	682.5	594.9	497.9	405.3	332.5	295.8	283.3	283.3
17.5°	859.6	825.6	740.4	634.5	517.1	387.2	276.7	231.7	228.2	239.6	241.4
20°	854.5	813.4	708.7	577.6	425.7	268.0	187.6	181.2	209.8	241.4	245.0
22.5°	846.6	797.6	672.2	511.5	319.3	174.6	144.7	154.4	193.2	232.5	238.1
25°	835.6	778.4	630.4	434.6	212.3	125.6	120.7	132.7	160.0	186.3	190.4
27.5°	819.5	754.2	584.7	351.4	135.5	103.4	105.1	113.6	125.3	136.5	138.8
30°	799.3	725.8	534.9	259.3	102.9	92.4	95.5	100.6	105.7	112.8	114.3
32.5°	778.9	697.0	483.1	178.1	89.8	86.5	89.6	92.4	96.7	101.6	102.6
35°	760.5	670.2	429.8	124.3	84.2	82.7	84.2	86.0	90.3	95.2	95.7
37.5°	747.3	648.3	374.1	98.3	80.9	79.4	80.1	80.9	86.0	93.2	93.9
40°	745.5	633.7	317.7	88.3	78.4	76.3	75.8	76.3	82.9	91.1	91.9
42.5°	762.8	634.5	262.6	84.2	76.3	74.0	72.0	73.0	78.9	85.2	85.8
45°	803.9	652.3	214.9	82.4	74.5	72.7	69.7	70.2	73.0	76.3	76.8
47.5°	876.4	691.4	178.4	81.4	73.0	71.5	67.6	66.1	66.4	68.1	68.1
50°	992.3	756.7	156.2	80.4	71.7	68.9	64.6	61.5	60.7	61.8	62.0
52.5°	1165.1	868.8	145.5	78.4	69.4	65.6	60.7	57.7	56.4	57.4	57.4
55°	1398.6	1047.7	140.4	75.5	66.6	61.5	57.2	54.6	53.6	54.4	54.4
57.5°	1664.8	1280.2	149.0	71.7	63.0	57.2	54.1	52.3	51.6	52.3	52.6
60°	1981.0	1584.4	208.8	66.9	59.2	53.3	51.6	50.5	50.0	50.8	50.8
62.5°	2401.3	1989.2	323.1	63.0	55.1	49.8	49.3	48.7	48.2	49.0	49.0
65°	2855.1	2357.4	332.5	60.7	51.6	46.7	47.0	47.0	46.4	47.2	47.2
67.5°	2999.6	2325.5	185.8	57.9	47.2	43.6	44.7	44.7	44.4	45.2	44.9
68°	2968.9	2275.0	161.8	57.2	46.4	42.9	43.9	44.2	43.9	44.7	44.4
70°	2740.8	1997.3	106.4	52.8	43.1	40.3	41.9	42.1	41.9	42.9	42.6
72.5°	2262.5	1498.1	78.6	46.2	39.0	37.0	38.5	38.8	39.0	40.1	39.8
75°	1436.9	827.4	62.0	39.3	35.0	33.2	34.7	35.5	36.0	37.5	36.8
77.5°	393.5	251.1	50.3	33.4	30.1	29.3	30.4	31.4	31.9	33.7	32.4
80°	137.8	111.0	41.9	28.3	25.0	24.8	25.8	26.8	27.3	28.8	27.3
82.5°	83.7	72.5	33.4	22.2	19.7	19.4	20.7	21.7	22.2	22.2	21.2
85°	43.6	38.3	24.5	15.6	13.5	12.8	15.1	16.3	16.6	16.3	15.6
87.5°	24.5	21.7	13.0	7.4	6.1	6.4	7.9	9.7	10.5	10.2	9.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)