

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: P198698

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198698  
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-SL2-600  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 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: 3996.7 lumens  
Efficiency: N/A  
Efficacy: 117.5 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

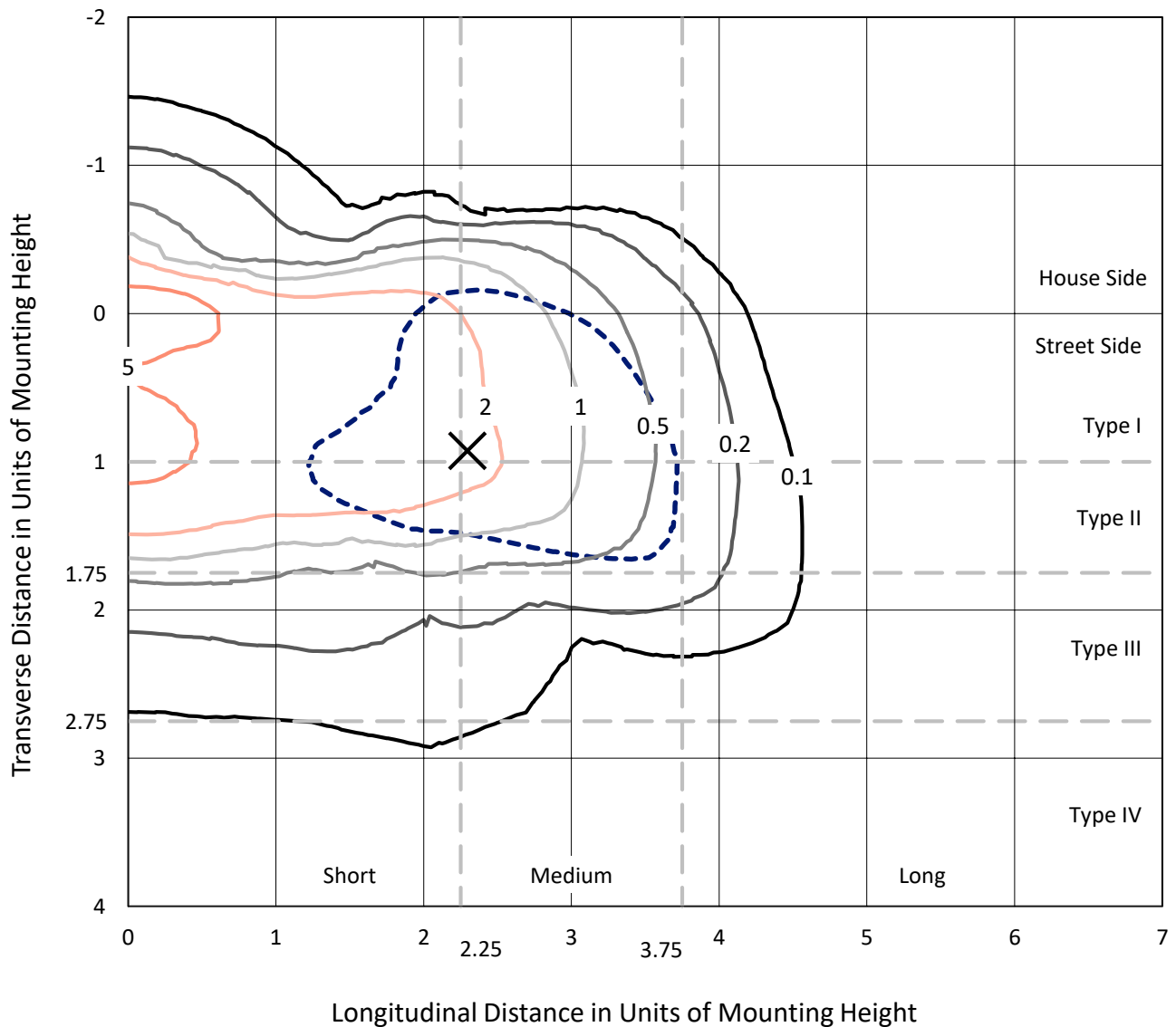
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P198698  
 CATALOG NUMBER: XNV-AF-01-LED-U-SL2-600

### Iso-Footcandle Lines of Horizontal Illumination

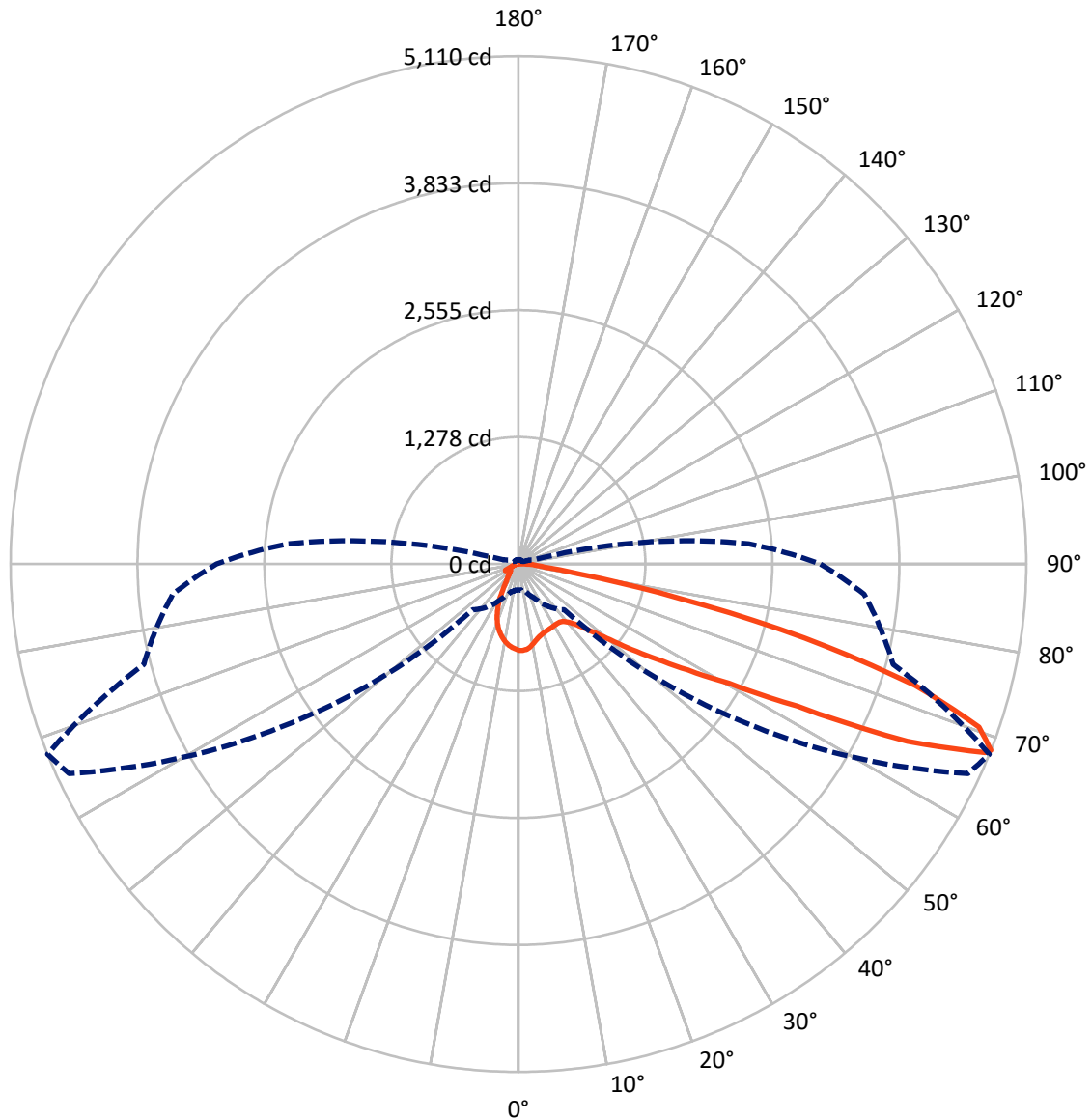
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.7 fc  
 Type II - Medium - Semi-Cutoff

REPORT NUMBER: P198698  
CATALOG NUMBER: XNV-AF-01-LED-U-SL2-600

### Luminous Intensity Polar Plot



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



REPORT NUMBER: P198698

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

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	653.9	0.0	653.9
	% Fixture	16.4	0.0	16.4
<b>Street Side</b>	Lumens	3342.8	0.0	3342.8
	% Fixture	83.6	0.0	83.6
<b>Total</b>	Lumens	3996.7	0.0	3996.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.5	1.9
10°-20°	172.8	4.3
20°-30°	233.7	5.8
30°-40°	329.6	8.2
40°-50°	541.9	13.6
50°-60°	840.0	21.0
60°-70°	1089.2	27.3
70°-80°	625.0	15.6
80°-90°	89.9	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°	3996.7	100.0
0°-180°	3996.7	100.0

**Coefficient of Utilization**



REPORT NUMBER: P198698

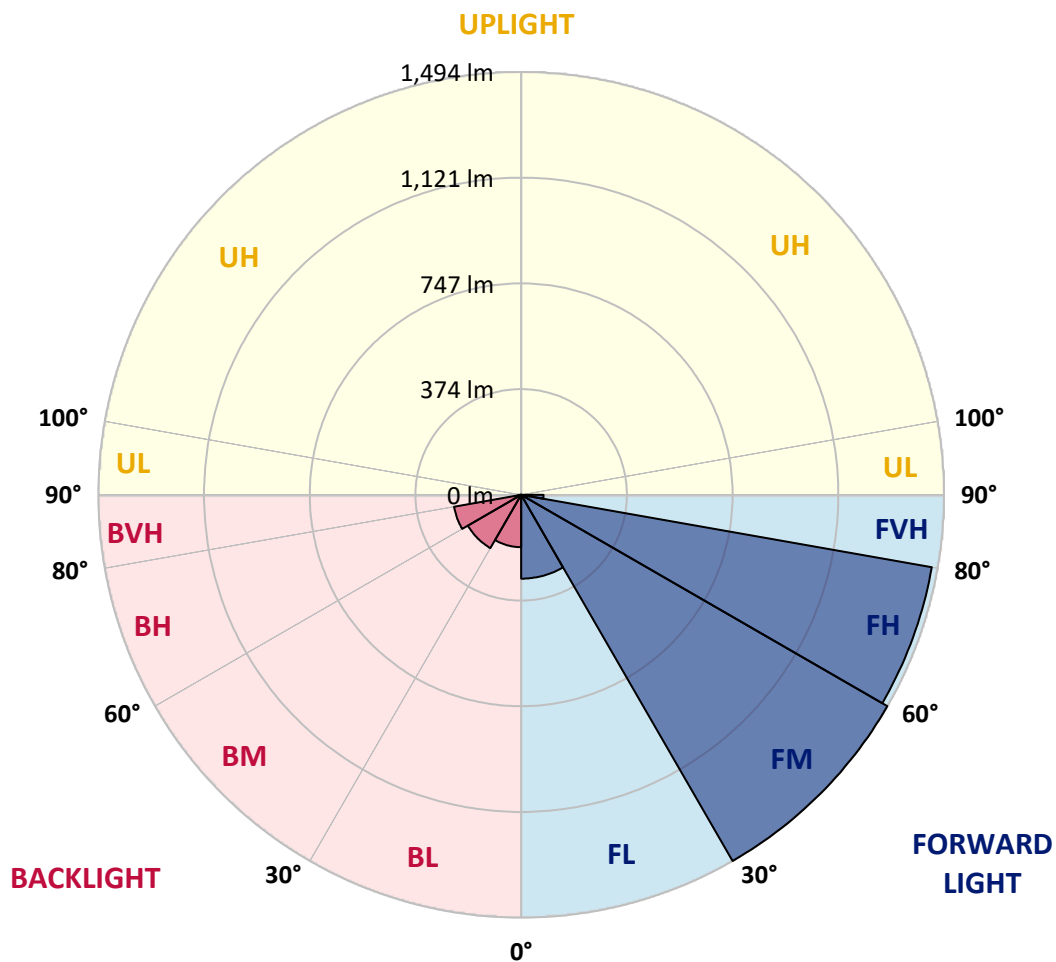
CATALOG NUMBER: XNV-AF-01-LED-U-SL2-600

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	296.2	7.4			
FM (30°-60°)	1494.0	37.4			
FH (60°-80°)	1473.4	36.9			G1/1800
FVH (80°-90°)	79.2	2.0			G1/100
BL (0°-30°)	184.9	4.6	B1/500		
BM (30°-60°)	217.5	5.4	B0/220		
BH (60°-80°)	240.8	6.0	B1/500		G1/500
BVH (80°-90°)	10.7	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: P198698

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

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	869.6	869.6	869.6	869.6	869.6	869.6	869.6	869.6	869.6	869.6	869.6
2.5°	846.4	853.1	853.1	858.2	862.6	866.2	869.4	869.4	869.4	867.3	865.4
5°	757.4	766.5	767.8	780.3	796.8	816.9	839.3	859.2	863.1	870.4	873.3
7.5°	695.5	698.4	703.4	712.0	728.6	753.5	788.7	833.1	843.8	866.7	878.8
10°	651.6	654.0	658.2	666.8	681.9	704.4	739.1	796.8	814.6	855.3	879.0
12.5°	619.5	621.3	625.2	633.1	648.6	668.6	704.1	764.1	786.1	843.8	882.7
15°	594.4	597.6	600.8	608.3	624.0	643.3	679.3	740.4	764.1	834.6	889.5
17.5°	584.5	586.2	586.7	590.5	604.7	624.2	660.2	723.7	748.3	827.4	894.7
20°	590.9	591.1	585.8	583.3	591.4	609.4	644.4	711.2	736.2	820.8	896.8
22.5°	618.3	618.3	604.7	593.2	587.7	598.9	633.6	702.6	729.7	815.9	896.8
25°	670.4	668.1	646.9	624.2	600.0	595.3	626.9	697.0	724.8	813.2	893.4
27.5°	739.1	737.0	710.1	676.5	632.6	603.1	624.5	692.6	719.7	809.4	886.1
30°	822.7	820.8	790.2	746.1	681.4	627.9	629.9	689.5	715.9	802.8	873.8
32.5°	905.9	904.9	880.6	835.4	748.8	669.9	644.4	689.0	713.8	794.9	859.0
35°	989.7	989.7	974.9	936.7	839.3	733.0	674.3	698.7	717.7	790.8	846.2
37.5°	1113.5	1108.6	1080.8	1041.5	953.5	815.1	722.9	719.0	732.8	797.8	842.0
40°	1305.1	1290.8	1221.6	1155.2	1078.0	920.0	793.9	758.4	766.8	821.8	851.9
42.5°	1505.6	1482.9	1391.3	1285.2	1206.7	1049.5	887.1	822.4	822.1	868.4	883.5
45°	1677.6	1665.9	1566.8	1432.2	1353.7	1195.2	1004.8	917.4	908.0	940.4	944.3
47.5°	1777.7	1769.8	1710.1	1587.8	1528.1	1367.3	1154.2	1049.2	1031.5	1050.8	1044.8
50°	1750.0	1757.5	1740.3	1677.9	1715.5	1609.0	1344.6	1229.9	1196.2	1215.6	1200.9
52.5°	1604.3	1624.7	1640.1	1652.1	1823.3	1932.5	1583.6	1455.5	1427.5	1424.2	1410.0
55°	1341.9	1374.3	1422.8	1511.1	1794.4	2192.3	2001.4	1728.3	1687.6	1666.2	1671.7
57.5°	913.2	962.3	1067.0	1234.9	1643.7	2303.0	2619.1	2080.8	2011.8	1935.6	1953.3
60°	503.1	544.1	668.6	837.8	1299.9	2286.5	3166.5	2653.5	2436.6	2234.5	2271.1
62.5°	325.6	334.4	427.1	572.2	797.8	2018.6	3470.8	3610.9	3151.2	2628.8	2680.2
65°	261.6	267.9	313.3	461.6	555.9	1298.6	3484.3	4604.1	4300.9	3164.5	3166.0
67.5°	255.6	258.5	284.8	388.2	521.4	707.0	3011.8	4995.7	5065.9	3796.8	3491.1
68°	259.2	262.6	289.3	376.2	521.1	651.6	2783.6	4989.6	5110.0	3902.6	3491.1
70°	228.7	232.9	295.0	389.2	498.9	560.3	1906.1	4724.7	4918.3	4145.6	3312.5
72.5°	119.6	116.2	146.0	307.3	561.6	583.8	1007.0	3947.2	4173.2	3839.3	2861.9
75°	93.2	84.8	81.7	121.4	494.0	605.4	584.8	2805.5	2976.3	2767.7	1912.9
77.5°	87.8	77.5	71.5	71.8	217.5	629.9	473.1	1651.0	1651.0	1320.2	610.4
80°	70.5	61.1	57.2	65.3	105.0	580.6	493.7	752.4	641.7	341.3	168.2
82.5°	46.4	41.5	41.7	53.0	79.6	387.7	571.7	371.5	279.1	151.2	98.9
85°	29.5	25.4	28.2	37.0	59.5	172.9	566.0	258.2	184.8	84.8	49.3
87.5°	14.8	11.5	14.1	19.3	36.3	49.6	466.1	230.6	137.1	35.3	26.9
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: P198698

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

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	869.6	869.6	869.6	869.6	869.6	869.6	869.6	869.6	869.6	869.6	869.6
2.5°	865.4	859.7	856.8	852.1	846.4	840.7	836.8	834.9	833.9	834.4	834.1
5°	871.8	864.2	851.9	834.4	816.4	797.3	782.7	771.5	764.5	762.3	761.8
7.5°	876.5	865.4	842.5	810.6	779.8	746.4	717.9	695.2	679.9	672.8	672.5
10°	875.6	861.5	825.2	778.3	733.0	684.0	639.3	601.3	573.6	560.3	559.8
12.5°	876.5	857.1	804.1	740.4	675.7	605.4	539.1	479.9	438.6	419.0	418.3
15°	879.5	852.4	782.5	698.2	608.6	509.3	414.6	340.1	302.6	289.8	289.8
17.5°	879.3	844.5	757.4	649.1	529.0	396.1	283.1	237.0	233.4	245.1	246.9
20°	874.1	832.1	725.0	590.9	435.5	274.2	191.9	185.4	214.6	246.9	250.6
22.5°	866.0	815.9	687.6	523.2	326.6	178.6	148.0	157.9	197.6	237.8	243.6
25°	854.8	796.3	644.9	444.6	217.2	128.5	123.5	135.7	163.7	190.6	194.8
27.5°	838.3	771.5	598.1	359.5	138.6	105.8	107.5	116.2	128.2	139.6	142.0
30°	817.6	742.5	547.2	265.3	105.3	94.5	97.7	102.9	108.1	115.4	116.9
32.5°	796.8	713.0	494.2	182.2	91.9	88.5	91.7	94.5	98.9	103.9	105.0
35°	778.0	685.6	439.7	127.2	86.1	84.6	86.1	88.0	92.4	97.4	97.9
37.5°	764.5	663.2	382.7	100.6	82.8	81.2	81.9	82.8	88.0	95.3	96.1
40°	762.6	648.2	325.0	90.3	80.2	78.1	77.5	78.1	84.8	93.2	94.0
42.5°	780.3	649.1	268.6	86.1	78.1	75.7	73.7	74.7	80.7	87.2	87.8
45°	822.4	667.3	219.8	84.3	76.2	74.4	71.3	71.8	74.7	78.1	78.6
47.5°	896.5	707.3	182.5	83.3	74.7	73.1	69.2	67.6	67.9	69.7	69.7
50°	1015.1	774.1	159.8	82.2	73.3	70.5	66.1	62.9	62.1	63.2	63.4
52.5°	1191.8	888.7	148.8	80.2	71.0	67.1	62.1	59.0	57.7	58.7	58.7
55°	1430.7	1071.7	143.6	77.2	68.1	62.9	58.5	55.9	54.8	55.6	55.6
57.5°	1703.0	1309.6	152.4	73.3	64.4	58.5	55.3	53.5	52.8	53.5	53.8
60°	2026.5	1620.8	213.6	68.4	60.6	54.5	52.8	51.7	51.1	52.0	52.0
62.5°	2456.4	2034.9	330.5	64.4	56.4	50.9	50.4	49.8	49.3	50.1	50.1
65°	2920.6	2411.5	340.1	62.1	52.8	47.8	48.1	48.1	47.5	48.3	48.3
67.5°	3068.4	2378.9	190.1	59.2	48.3	44.6	45.7	45.7	45.4	46.2	45.9
68°	3037.0	2327.2	165.5	58.5	47.5	43.9	44.9	45.2	44.9	45.7	45.4
70°	2803.7	2043.1	108.8	54.0	44.1	41.2	42.9	43.1	42.9	43.9	43.6
72.5°	2314.4	1532.5	80.4	47.3	39.9	37.8	39.4	39.7	39.9	41.0	40.7
75°	1469.9	846.4	63.4	40.2	35.8	34.0	35.5	36.3	36.8	38.4	37.6
77.5°	402.5	256.9	51.5	34.2	30.8	30.0	31.1	32.1	32.6	34.5	33.1
80°	141.0	113.5	42.9	28.9	25.6	25.4	26.4	27.4	27.9	29.5	27.9
82.5°	85.6	74.2	34.2	22.7	20.2	19.8	21.2	22.2	22.7	22.7	21.7
85°	44.6	39.2	25.1	16.0	13.8	13.1	15.4	16.7	17.0	16.7	16.0
87.5°	25.1	22.2	13.3	7.6	6.2	6.5	8.1	9.9	10.7	10.4	9.9
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)