

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: P198714

Luminaire Tested: **XNV-AF-01-LED-U-SL3-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198714  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24262)  
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-SL3-600  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4071.3 lumens  
Efficiency: N/A  
Efficacy: 119.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G1

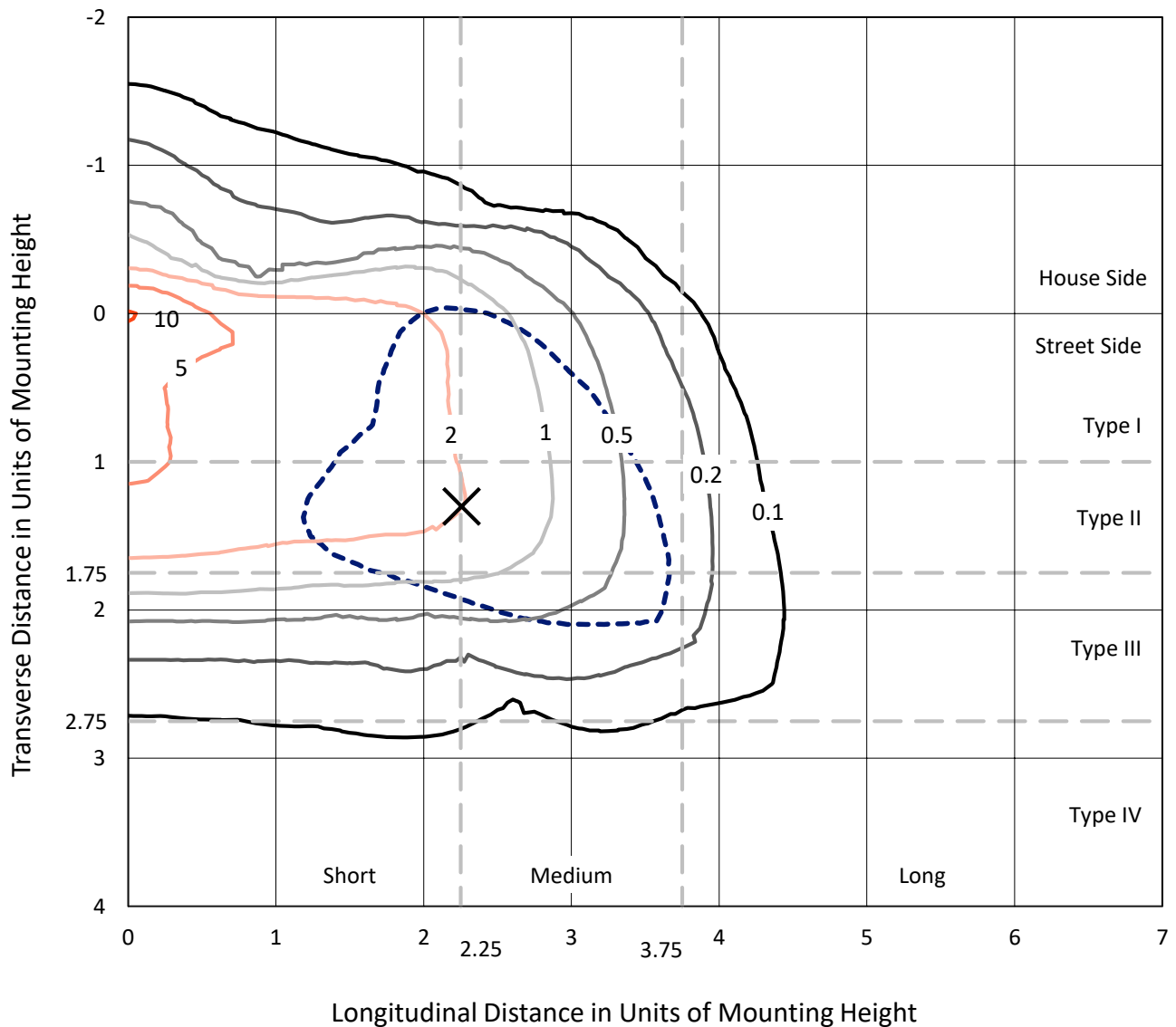
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

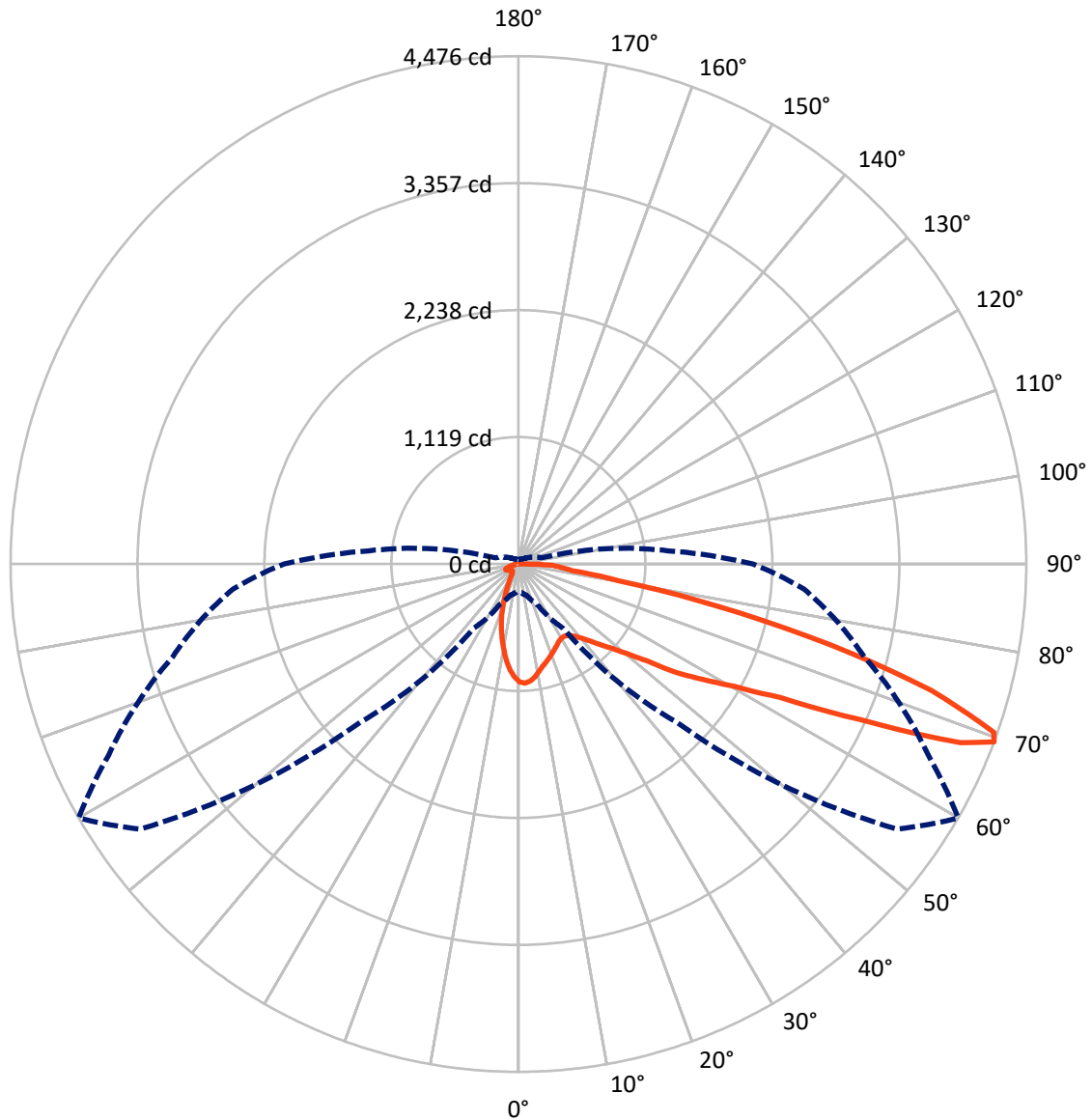
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	580.7	0.0	580.7
	% Fixture	14.3	0.0	14.3
<b>Street Side</b>	Lumens	3490.6	0.0	3490.6
	% Fixture	85.7	0.0	85.7
<b>Total</b>	Lumens	4071.3	0.0	4071.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.1	2.2
10°-20°	188.7	4.6
20°-30°	240.7	5.9
30°-40°	331.2	8.1
40°-50°	536.5	13.2
50°-60°	842.1	20.7
60°-70°	1122.7	27.6
70°-80°	624.5	15.3
80°-90°	96.9	2.4
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°	4071.3	100.0
0°-180°	4071.3	100.0

**Coefficient of Utilization**



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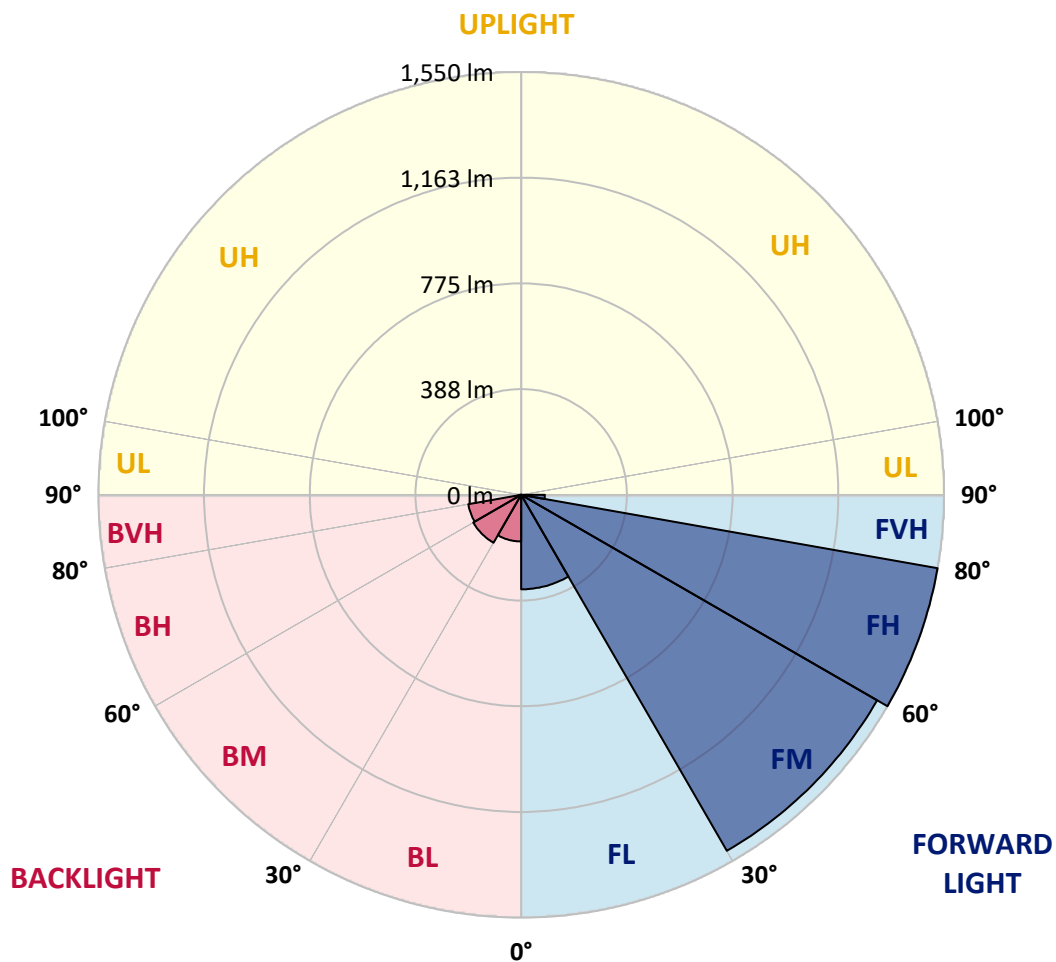
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	346.4	8.5			
FM	(30°-60°)	1507.0	37.0			
FH	(60°-80°)	1550.2	38.1			G1/1800
FVH	(80°-90°)	87.0	2.1			G1/100
BL	(0°-30°)	171.1	4.2	B1/500		
BM	(30°-60°)	202.9	5.0	B0/220		
BH	(60°-80°)	196.9	4.8	B1/500		G1/500
BVH	(80°-90°)	9.8	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

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

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8
2.5°	1066.5	1069.4	1069.4	1067.0	1065.7	1058.1	1053.7	1050.6	1045.0	1034.9	1025.7
5°	1028.4	1033.9	1036.2	1037.3	1044.0	1041.7	1042.0	1039.8	1035.1	1024.2	1009.3
7.5°	958.4	959.4	963.6	970.7	987.1	998.6	1008.0	1009.9	1008.8	1000.7	979.8
10°	889.5	891.3	896.3	908.3	923.9	940.4	960.8	969.1	975.4	972.7	946.4
12.5°	832.3	832.6	838.0	851.9	869.4	890.0	917.7	930.7	945.6	951.7	922.1
15°	777.2	780.9	786.1	802.8	824.5	850.6	882.4	900.4	920.0	937.2	903.4
17.5°	735.4	738.4	741.4	755.2	780.3	812.9	852.4	871.8	897.5	923.9	884.0
20°	712.5	713.5	711.2	717.9	739.1	774.4	820.0	843.3	874.1	911.1	864.2
22.5°	707.8	707.8	699.2	697.9	707.3	737.0	786.6	815.1	852.6	902.2	846.4
25°	729.7	728.1	712.0	697.0	693.7	708.8	754.7	789.7	834.4	902.0	833.1
27.5°	771.2	769.2	749.0	723.9	702.3	695.8	730.2	766.0	820.0	910.9	826.3
30°	822.9	822.1	801.8	770.4	734.7	701.0	720.6	753.7	810.4	927.3	826.0
32.5°	879.5	876.0	863.4	832.1	785.5	730.0	726.3	754.2	807.7	951.3	832.1
35°	939.9	937.2	934.2	902.5	850.3	781.1	751.7	772.2	820.5	984.8	849.0
37.5°	1016.6	1013.7	1019.0	984.5	927.3	848.2	794.4	808.3	846.7	1033.4	880.6
40°	1153.2	1144.8	1130.2	1077.2	1017.1	930.5	856.3	858.5	891.3	1098.3	931.3
42.5°	1377.4	1350.5	1278.2	1180.8	1111.9	1026.0	937.0	927.1	952.9	1184.3	1004.8
45°	1602.2	1572.0	1449.7	1293.9	1210.0	1128.6	1036.8	1012.9	1029.7	1284.2	1099.7
47.5°	1747.4	1732.5	1594.7	1407.0	1313.0	1240.3	1150.8	1111.6	1123.7	1397.6	1216.6
50°	1790.0	1777.2	1668.7	1495.5	1410.0	1375.4	1292.1	1240.1	1242.2	1529.9	1356.8
52.5°	1758.0	1752.8	1681.0	1550.3	1499.3	1517.6	1487.6	1415.3	1398.1	1675.1	1508.8
55°	1715.5	1717.3	1689.7	1605.3	1590.2	1650.2	1743.4	1685.2	1612.2	1826.2	1667.0
57.5°	1581.6	1582.9	1655.4	1710.3	1763.6	1836.1	1942.7	1918.1	1833.0	1989.4	1844.3
60°	1273.5	1283.7	1445.3	1688.6	1961.7	2202.4	2228.5	2186.3	2068.0	2177.4	2074.7
62.5°	909.8	919.0	1106.2	1465.9	1938.5	2617.0	2756.4	2588.3	2386.7	2458.6	2399.0
65°	478.0	476.5	621.3	1012.9	1632.7	2713.1	3588.2	3302.1	2923.8	2845.2	2712.4
67.5°	267.1	275.7	331.8	511.0	1064.2	2387.8	4119.5	4203.8	3670.4	3151.9	2698.7
69°	246.9	249.8	287.4	395.0	693.7	1970.1	4073.8	4476.1	3985.3	3153.2	2524.8
70°	239.9	243.1	277.2	364.0	582.7	1614.2	3907.5	4444.3	4061.8	3083.3	2366.6
72.5°	215.1	219.3	252.5	327.1	491.1	832.1	3147.5	3803.8	3679.3	2694.9	1835.1
75°	183.5	190.6	240.7	324.8	465.2	529.0	2099.0	2834.0	2738.4	1927.2	1041.2
77.5°	76.0	76.7	105.3	237.8	488.3	506.3	1128.1	1795.2	1589.2	845.1	313.5
80°	53.0	52.0	52.5	69.5	393.9	509.6	578.8	913.0	709.6	223.0	146.7
82.5°	44.6	44.1	46.2	43.6	133.4	578.3	484.1	476.0	334.2	120.1	70.0
85°	29.5	28.7	37.8	39.7	63.4	459.2	520.6	374.1	249.1	64.2	29.8
87.5°	14.3	14.6	21.7	26.9	33.7	145.5	498.7	295.8	192.4	27.9	12.0
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8
2.5°	1022.1	1014.3	1007.2	998.4	991.5	985.8	977.9	977.7	976.4	978.2	978.8
5°	999.4	986.3	966.5	944.3	928.6	908.0	887.9	881.2	873.6	872.8	875.1
7.5°	965.2	944.8	910.9	877.0	843.0	808.3	775.4	758.7	742.5	737.5	739.9
10°	927.1	901.2	849.3	793.9	746.1	694.5	644.4	611.9	582.5	569.9	573.1
12.5°	897.3	864.4	791.4	719.5	647.9	573.9	507.8	443.9	395.6	373.9	375.1
15°	871.8	829.7	737.0	641.5	551.9	450.3	358.7	284.6	242.2	226.6	226.1
17.5°	844.0	793.2	680.4	568.9	452.7	327.1	240.2	196.3	179.6	174.4	174.4
20°	814.6	755.6	621.1	489.8	348.3	228.4	180.7	163.7	157.4	155.9	155.6
22.5°	787.2	718.7	561.6	405.5	252.0	173.4	153.7	147.2	146.2	147.5	147.5
25°	765.5	686.4	501.2	316.7	183.3	145.2	136.8	136.1	139.9	144.6	145.5
27.5°	749.3	657.3	441.7	231.3	144.1	126.3	123.5	126.8	136.1	145.5	147.2
30°	738.1	632.6	370.5	166.3	120.1	110.7	112.0	118.0	131.9	146.2	150.1
32.5°	733.1	612.4	298.7	127.7	102.6	97.4	100.8	108.6	123.0	137.3	142.0
35°	737.8	597.8	232.3	106.0	89.8	85.9	89.8	97.9	107.3	114.4	117.2
37.5°	754.7	592.6	174.9	94.0	81.4	77.5	80.7	86.1	90.3	93.0	94.2
40°	790.5	598.1	137.1	87.8	76.7	72.3	73.1	75.7	78.6	80.7	80.9
42.5°	847.4	616.1	121.9	85.4	73.9	68.1	66.8	68.6	71.8	74.7	75.2
45°	923.1	646.2	120.4	86.1	72.6	64.8	62.1	63.9	68.1	72.8	73.7
47.5°	1021.1	693.7	127.7	90.3	73.3	62.9	59.0	60.9	66.3	72.6	73.7
50°	1137.0	759.4	141.3	96.6	77.0	62.9	57.7	59.2	65.0	72.0	73.1
52.5°	1273.5	851.1	155.4	102.9	82.2	65.3	58.2	58.0	63.2	69.7	71.0
55°	1424.2	964.9	168.9	108.3	85.1	68.4	59.5	56.4	60.6	65.8	66.8
57.5°	1601.4	1120.7	192.7	113.5	86.6	70.8	61.1	54.8	57.2	60.9	61.6
60°	1841.9	1349.8	238.9	122.4	89.5	71.8	61.4	53.3	53.0	55.6	55.9
62.5°	2155.5	1617.9	283.1	132.9	95.3	72.0	60.4	52.2	49.6	50.4	50.4
65°	2378.4	1716.6	270.2	141.8	100.6	71.8	59.2	51.5	47.0	45.7	45.7
67.5°	2251.5	1516.3	229.4	144.1	101.1	68.9	56.9	49.6	44.6	41.5	41.5
69°	2065.1	1329.1	210.7	139.9	96.9	65.6	54.3	47.8	43.1	39.4	39.4
70°	1913.1	1187.3	199.2	134.9	91.9	62.7	52.0	45.9	41.5	38.4	38.2
72.5°	1428.3	792.4	170.2	116.4	75.5	53.0	45.4	41.0	37.3	35.3	35.3
75°	753.7	397.1	139.4	95.0	58.2	42.2	37.3	34.5	32.3	32.1	31.8
77.5°	246.9	179.6	100.2	71.5	42.9	32.9	29.8	27.9	27.7	28.7	28.7
80°	133.4	107.3	64.4	48.3	29.8	24.6	23.0	22.7	23.5	25.1	25.1
82.5°	64.8	53.0	38.4	29.8	20.4	18.0	18.0	18.3	19.3	21.2	21.2
85°	27.9	25.1	22.2	16.7	12.6	11.3	12.8	14.1	14.8	16.2	16.7
87.5°	13.3	11.8	10.2	6.5	5.5	5.7	6.8	8.4	9.9	10.9	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

(END OF REPORT)