

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: P198533

Luminaire Tested: **XNV2-AF-02-LED-U-SL2-7030-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198533  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24258)  
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-SL2-7030-800-HSS  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7036 lumens  
Efficiency: N/A  
Efficacy: 82.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

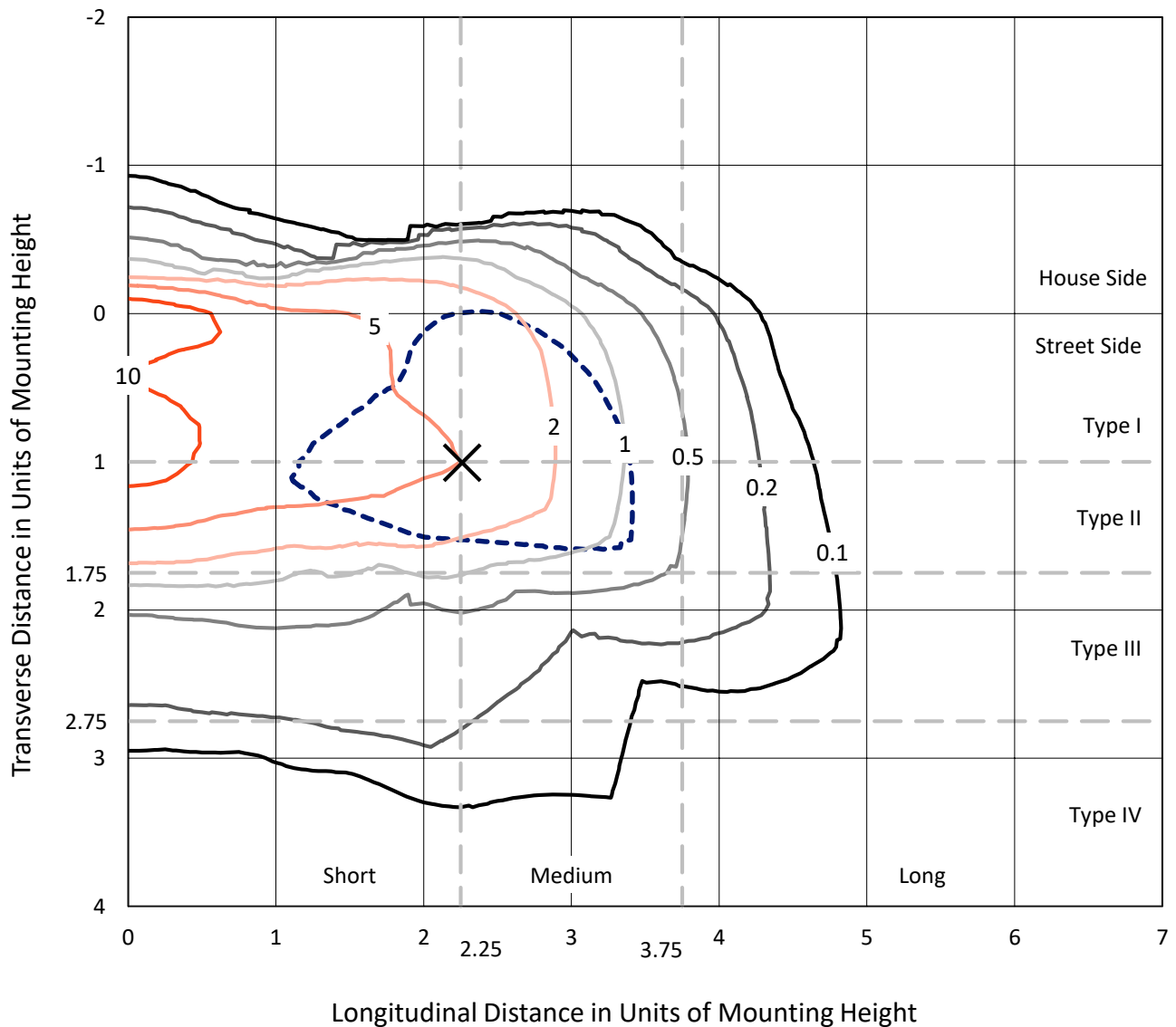
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P198533  
 CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-7030-800-HSS

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

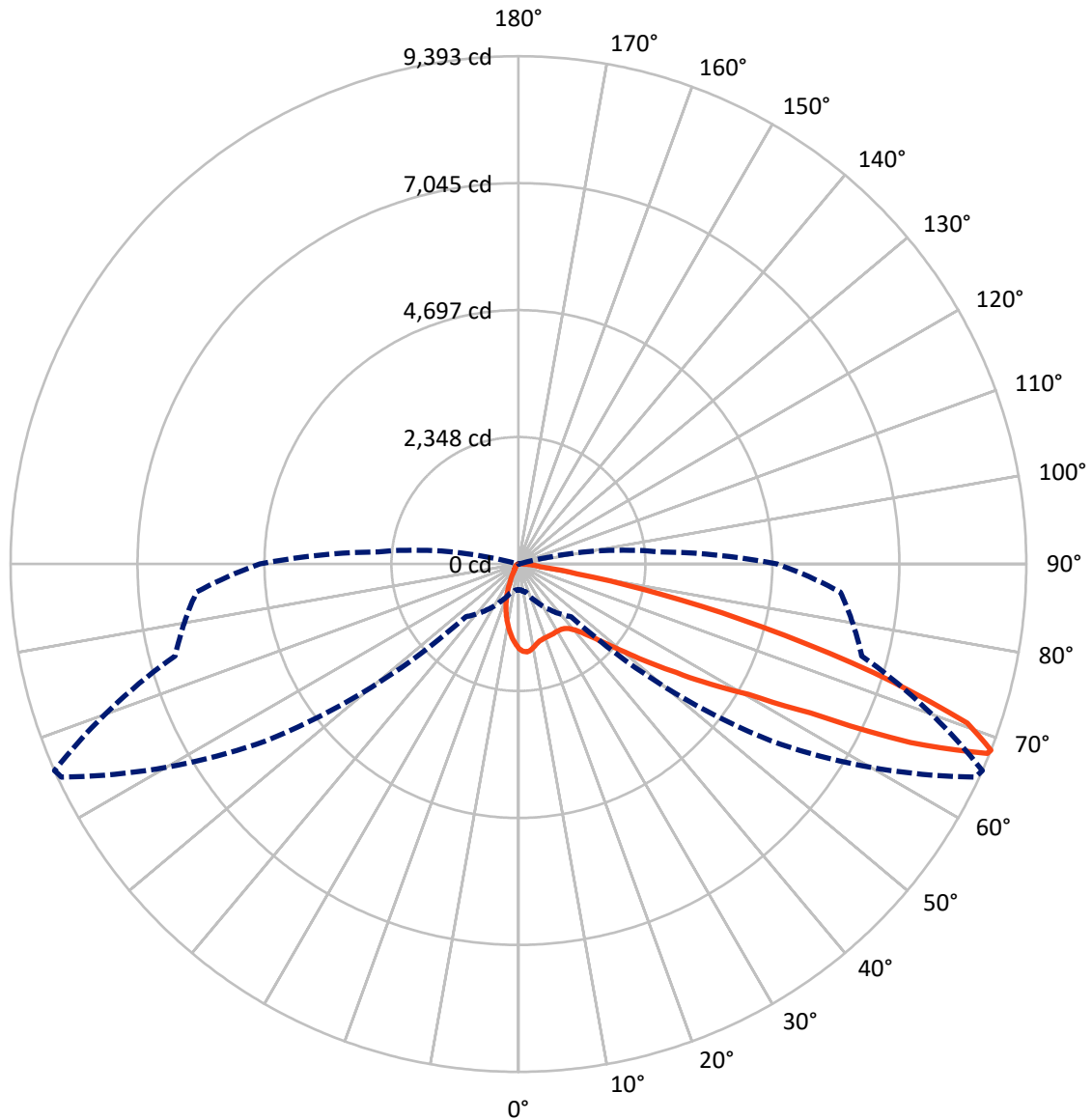


Based on 10 foot mounting height. Maximum calculated value = 15.7 fc  
 Type II - Medium - Semi-Cutoff

REPORT NUMBER: P198533

CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-7030-800-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P198533

CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-7030-800-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	712.7	0.0	712.7
	% Fixture	10.1	0.0	10.1
<b>Street Side</b>	Lumens	6323.3	0.0	6323.3
	% Fixture	89.9	0.0	89.9
<b>Total</b>	Lumens	7036.0	0.0	7036.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.5	1.8
10°-20°	276.5	3.9
20°-30°	400.7	5.7
30°-40°	613.3	8.7
40°-50°	1049.1	14.9
50°-60°	1641.1	23.3
60°-70°	1889.6	26.9
70°-80°	945.6	13.4
80°-90°	91.6	1.3
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°	7036.0	100.0
0°-180°	7036.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P198533

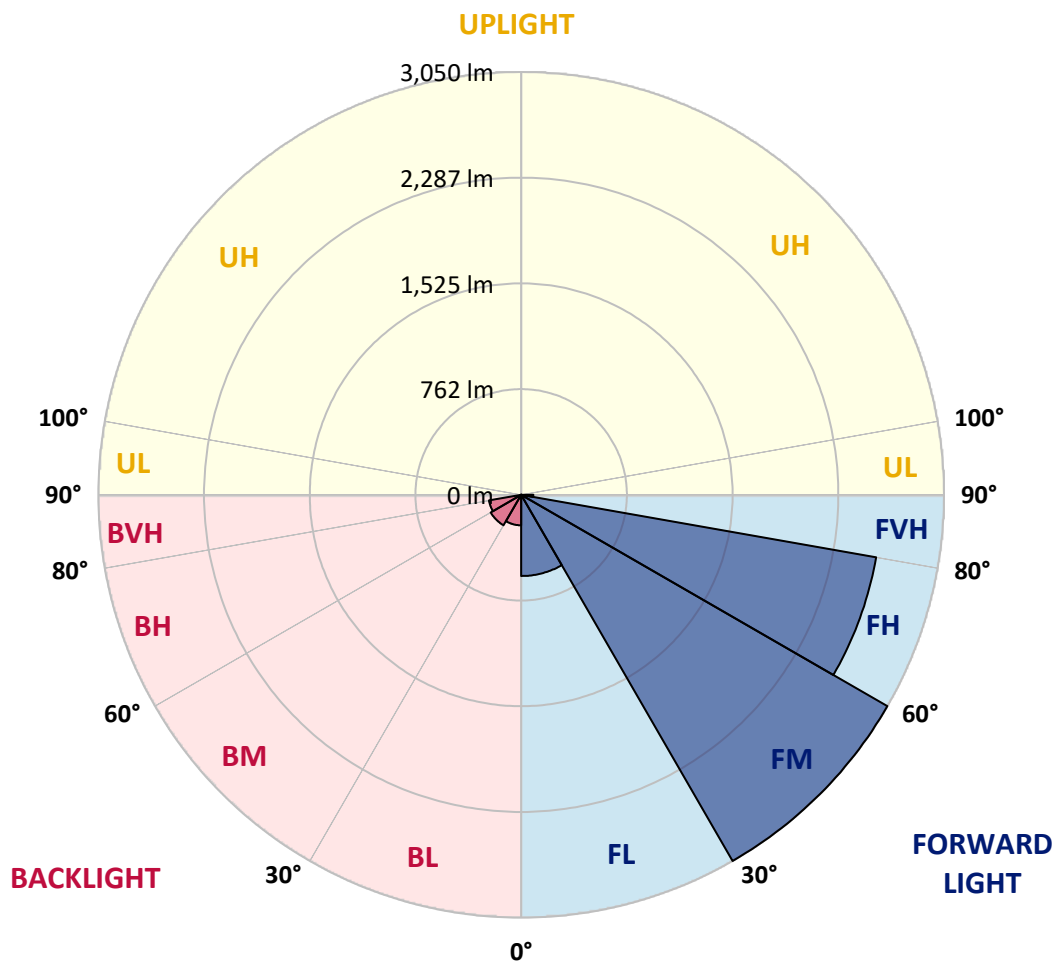
CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-7030-800-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	585.7	8.3			
FM (30°-60°)	3049.7	43.3			
FH (60°-80°)	2599.8	36.9			G2/5000
FVH (80°-90°)	88.1	1.3			G1/100
BL (0°-30°)	220.0	3.1	B1/500		
BM (30°-60°)	253.8	3.6	B1/1000		
BH (60°-80°)	235.5	3.3	B1/500		G1/500
BVH (80°-90°)	3.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Medium





REPORT NUMBER: P198533

CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-7030-800-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1567.6	1567.6	1567.6	1567.6	1567.6	1567.6	1567.6	1567.6	1567.6	1567.6	1567.6
2.5°	1648.7	1649.9	1649.3	1651.0	1649.9	1641.6	1632.7	1614.0	1615.6	1591.3	1564.2
5°	1532.8	1542.1	1551.5	1560.9	1583.6	1603.5	1627.2	1632.7	1632.7	1611.7	1572.0
7.5°	1414.6	1415.1	1425.6	1438.3	1468.7	1505.1	1560.4	1610.1	1611.2	1616.7	1573.1
10°	1325.6	1328.4	1335.6	1349.4	1379.8	1415.7	1477.5	1555.4	1561.5	1602.4	1562.0
12.5°	1256.6	1259.9	1267.6	1283.6	1311.3	1348.3	1413.5	1502.4	1510.7	1588.5	1558.7
15°	1203.6	1208.0	1214.1	1230.1	1259.9	1299.1	1370.4	1467.0	1477.0	1583.0	1569.2
17.5°	1181.5	1181.5	1180.9	1192.0	1221.8	1261.6	1336.1	1448.2	1461.0	1587.4	1586.9
20°	1190.9	1189.2	1177.6	1174.8	1193.1	1232.8	1309.1	1436.1	1450.5	1595.7	1608.4
22.5°	1240.6	1237.3	1211.3	1189.8	1184.2	1210.7	1290.8	1427.8	1444.9	1612.8	1637.1
25°	1346.1	1336.1	1300.2	1251.6	1208.0	1205.2	1278.1	1423.4	1441.6	1632.7	1668.6
27.5°	1483.0	1480.3	1422.8	1357.7	1273.7	1223.4	1274.3	1420.1	1438.3	1647.1	1694.0
30°	1653.2	1654.3	1588.0	1502.9	1375.9	1274.8	1286.4	1418.4	1437.2	1648.2	1705.1
32.5°	1828.8	1829.9	1774.7	1683.5	1515.6	1363.2	1320.7	1426.2	1443.3	1643.8	1704.5
35°	1997.8	1999.5	1966.3	1892.9	1702.3	1485.8	1385.3	1452.7	1464.8	1646.5	1703.4
37.5°	2211.6	2218.2	2177.3	2108.9	1936.5	1665.9	1490.8	1506.2	1516.2	1669.2	1711.7
40°	2576.1	2567.3	2450.2	2334.2	2190.6	1885.2	1643.2	1598.5	1601.8	1727.7	1743.2
42.5°	3000.9	2989.8	2789.3	2589.4	2451.9	2149.7	1838.2	1739.9	1739.3	1826.1	1811.7
45°	3366.5	3359.9	3148.9	2882.1	2741.3	2441.9	2078.5	1943.7	1937.1	1996.2	1936.5
47.5°	3626.1	3620.6	3461.0	3193.7	3076.0	2763.4	2378.4	2221.5	2207.7	2218.8	2139.2
50°	3651.6	3645.5	3589.7	3417.9	3467.1	3235.1	2749.0	2585.5	2567.9	2550.7	2445.8
52.5°	3414.0	3413.5	3442.8	3431.7	3741.0	3842.1	3203.6	3035.7	3014.7	2971.1	2866.7
55°	2928.5	2925.8	3036.8	3198.1	3735.0	4468.5	3896.8	3571.5	3543.8	3456.6	3319.6
57.5°	2139.8	2125.4	2357.4	2699.3	3472.6	4742.4	4997.6	4237.0	4191.2	3914.5	3703.5
60°	1181.5	1187.0	1485.3	1890.1	2851.2	4688.3	6010.6	5013.1	4892.7	4309.4	4096.7
62.5°	662.3	676.1	898.1	1228.4	1817.8	4249.2	6554.1	6348.7	6058.7	4770.0	4593.9
65°	501.0	509.3	620.8	947.8	1146.1	2969.4	6640.8	8216.1	7965.9	5468.2	5385.4
67.5°	471.7	478.3	533.0	786.0	1043.9	1539.9	5988.0	9320.8	9352.3	6420.5	5998.5
68°	475.0	483.3	538.0	756.2	1042.3	1377.5	5709.6	9326.3	9393.2	6574.0	5977.5
70°	436.4	438.6	568.9	741.8	1010.2	1085.4	4130.4	8687.3	8807.1	6756.8	5426.2
72.5°	166.8	167.4	255.2	642.4	1058.3	1091.4	2080.7	6866.2	6872.3	5880.3	4230.4
75°	86.7	72.9	80.1	201.1	1010.8	1063.8	1043.9	4688.3	4659.0	3976.9	2592.2
77.5°	59.7	50.8	53.6	69.6	420.3	1063.3	754.0	2696.0	2689.9	1691.8	739.6
80°	33.7	29.3	32.0	58.5	147.5	998.1	702.6	1158.8	1092.0	297.2	119.9
82.5°	17.1	14.4	17.1	49.2	91.7	628.0	683.3	454.6	404.9	70.7	77.9
85°	4.4	4.4	8.3	34.2	56.9	206.0	612.6	328.1	295.0	30.9	55.2
87.5°	1.1	0.6	3.3	12.7	20.4	44.7	339.7	182.8	157.4	16.0	32.0
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: P198533

CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-7030-800-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1567.6	1567.6	1567.6	1567.6	1567.6	1567.6	1567.6	1567.6	1567.6	1567.6	1567.6
2.5°	1553.2	1537.7	1507.3	1473.1	1448.8	1422.3	1406.8	1388.0	1373.7	1361.0	1370.4
5°	1547.7	1517.8	1450.5	1374.8	1311.3	1250.5	1205.2	1162.1	1129.5	1109.1	1117.4
7.5°	1533.3	1489.1	1379.8	1261.6	1157.7	1059.9	980.4	909.2	853.9	824.1	833.5
10°	1509.0	1446.6	1299.7	1135.6	990.4	852.3	734.1	628.0	547.9	510.4	519.2
12.5°	1491.3	1409.0	1216.8	1014.1	823.0	626.9	470.0	348.5	286.1	248.6	251.9
15°	1483.6	1379.8	1139.5	886.0	640.2	402.7	254.1	183.9	162.4	154.7	155.2
17.5°	1484.7	1356.6	1066.0	752.8	455.7	231.4	155.8	140.3	137.0	135.3	135.3
20°	1487.5	1333.4	989.8	614.2	291.6	149.1	129.8	124.8	123.2	121.0	121.5
22.5°	1495.7	1315.7	913.0	475.0	179.5	121.5	114.9	110.5	107.7	104.4	104.9
25°	1508.5	1302.4	837.4	341.9	126.5	106.1	100.0	93.9	88.9	85.1	85.6
27.5°	1516.2	1283.6	756.7	233.1	104.9	92.8	84.5	76.2	70.7	67.4	66.8
30°	1510.7	1253.3	665.0	153.0	92.8	80.1	70.1	60.8	55.2	52.5	52.5
32.5°	1495.7	1214.1	563.9	111.6	82.3	69.0	56.9	48.6	44.7	43.1	43.6
35°	1478.6	1173.2	456.2	94.5	74.0	58.5	46.4	39.8	38.1	37.6	37.6
37.5°	1469.2	1137.8	352.9	85.6	66.3	48.6	38.1	34.2	32.6	32.6	32.6
40°	1479.7	1110.8	261.3	79.0	58.5	40.3	32.0	29.3	28.7	28.7	28.7
42.5°	1524.5	1101.4	191.1	73.5	50.8	33.7	27.6	25.4	24.9	25.4	25.4
45°	1611.7	1121.8	144.7	67.9	43.6	27.6	23.8	22.1	22.1	22.6	22.6
47.5°	1759.8	1174.3	118.8	62.4	36.5	23.2	20.4	19.3	19.3	19.9	19.9
50°	1989.5	1271.5	106.6	56.3	30.4	19.9	17.1	16.6	16.6	17.1	17.7
52.5°	2338.6	1456.5	100.5	50.3	24.9	16.6	14.4	13.8	14.4	14.9	14.9
55°	2726.9	1693.5	93.3	44.2	21.0	13.8	11.6	11.6	12.2	13.3	13.3
57.5°	3088.7	1922.2	86.7	36.5	18.2	11.0	9.4	9.4	10.5	11.6	11.6
60°	3470.9	2146.4	77.9	29.3	15.5	8.8	7.7	7.7	9.4	10.5	11.0
62.5°	3943.2	2407.1	66.3	23.2	12.2	6.6	5.5	7.2	8.8	10.5	10.5
65°	4625.9	2731.3	51.9	18.2	9.4	5.0	4.4	6.6	8.3	9.9	10.5
67.5°	4873.9	2689.9	39.2	14.9	7.2	3.9	3.9	6.1	8.3	9.9	9.9
68°	4783.3	2599.3	37.6	14.4	6.6	3.9	3.9	6.1	8.3	9.9	9.9
70°	4168.0	2124.9	30.9	11.0	5.5	3.3	3.3	5.5	8.3	9.4	9.9
72.5°	3120.7	1411.8	26.5	7.2	5.0	3.3	2.8	5.5	7.7	9.4	9.4
75°	1790.1	586.0	22.6	5.5	4.4	2.8	2.8	5.0	7.7	9.4	9.4
77.5°	505.9	137.0	18.2	4.4	3.9	2.8	2.2	5.0	7.2	8.8	8.8
80°	92.8	40.9	14.4	3.9	3.3	2.8	2.2	5.0	7.2	8.8	8.8
82.5°	61.3	19.3	10.5	3.9	3.3	2.8	2.2	4.4	6.6	8.3	8.3
85°	45.8	13.8	6.6	3.9	3.3	2.8	2.2	4.4	6.6	8.3	8.3
87.5°	25.4	6.1	5.0	4.4	3.9	2.8	2.2	3.9	6.1	7.7	7.7
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)