

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: P271309

Luminaire Tested: **XNV2-AF-02-LED-U-SL2-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271309
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-SL2-7027-800-HSS
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 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: 6905.7 lumens
Efficiency: N/A
Efficacy: 81.2 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

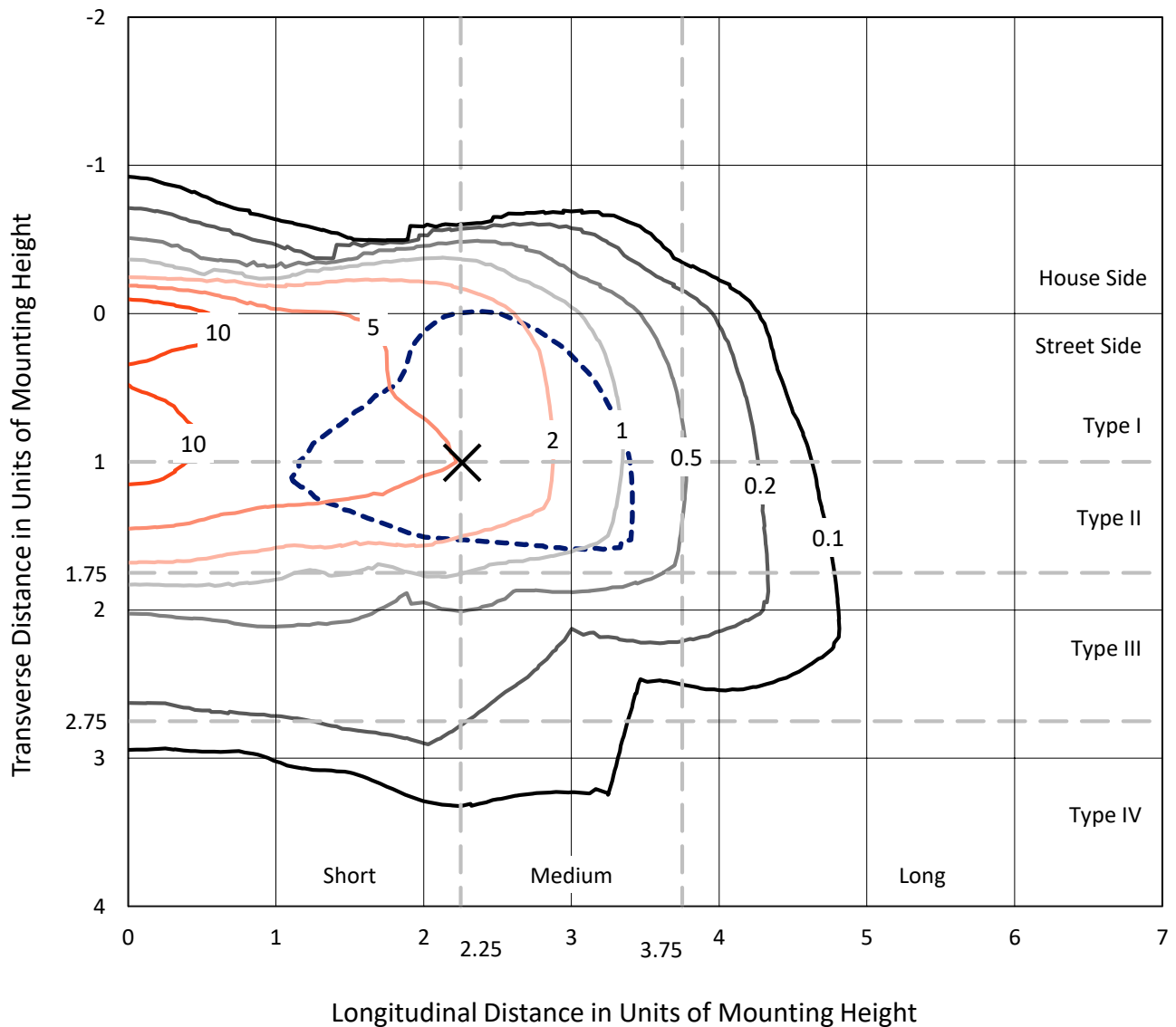


REPORT NUMBER: P271309

CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-7027-800-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

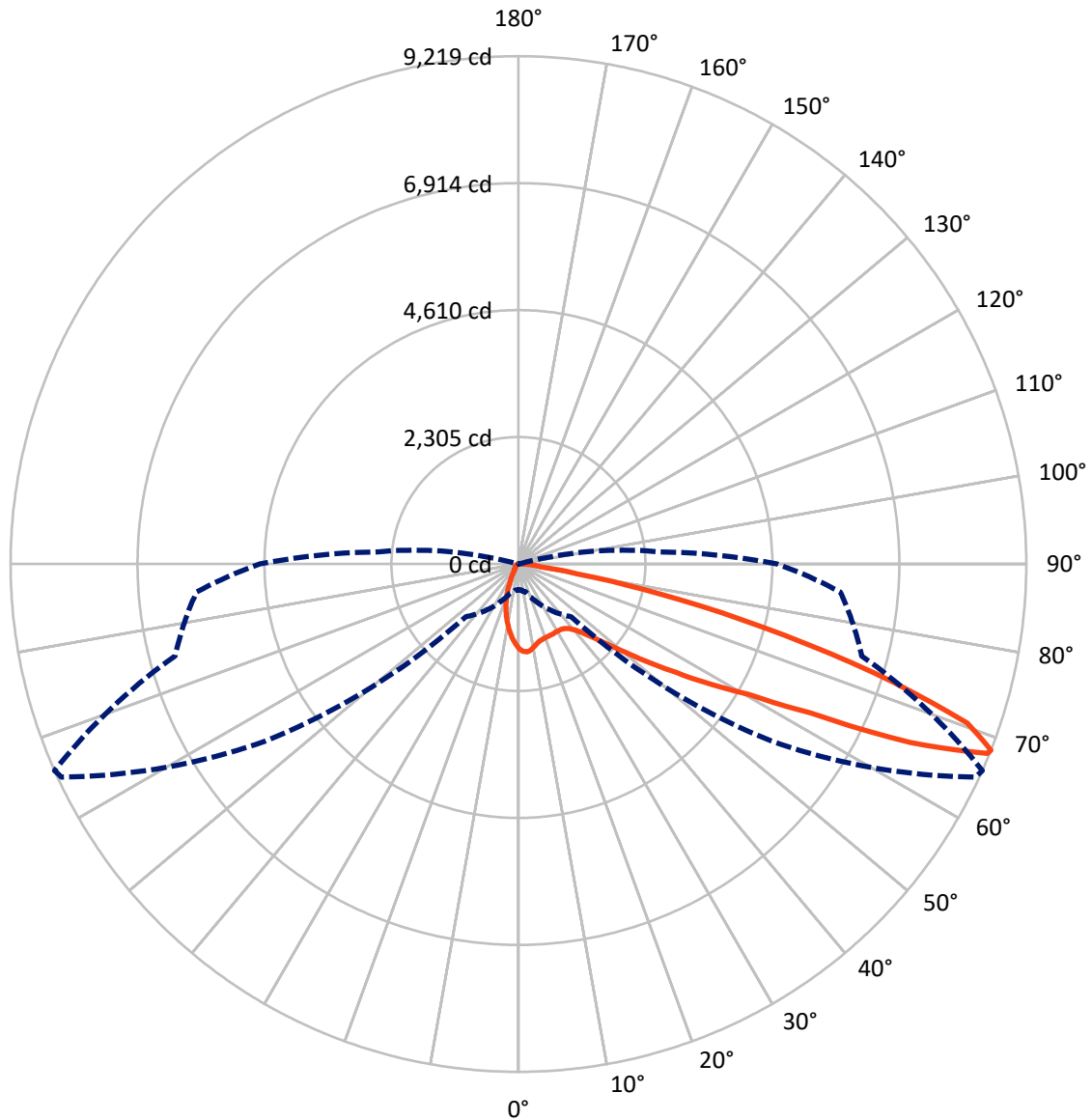


Based on 10 foot mounting height. Maximum calculated value = 15.4 fc
 Type II - Medium - Semi-Cutoff

REPORT NUMBER: P271309

CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-7027-800-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P271309

CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-7027-800-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	699.5	0.0	699.5
	% Fixture	10.1	0.0	10.1
Street Side	Lumens	6206.2	0.0	6206.2
	% Fixture	89.9	0.0	89.9
Total	Lumens	6905.7	0.0	6905.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	1.8
10°-20°	271.4	3.9
20°-30°	393.2	5.7
30°-40°	602.0	8.7
40°-50°	1029.7	14.9
50°-60°	1610.7	23.3
60°-70°	1854.6	26.9
70°-80°	928.1	13.4
80°-90°	89.9	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°	6905.7	100.0
0°-180°	6905.7	100.0

Coefficient of Utilization



REPORT NUMBER: P271309

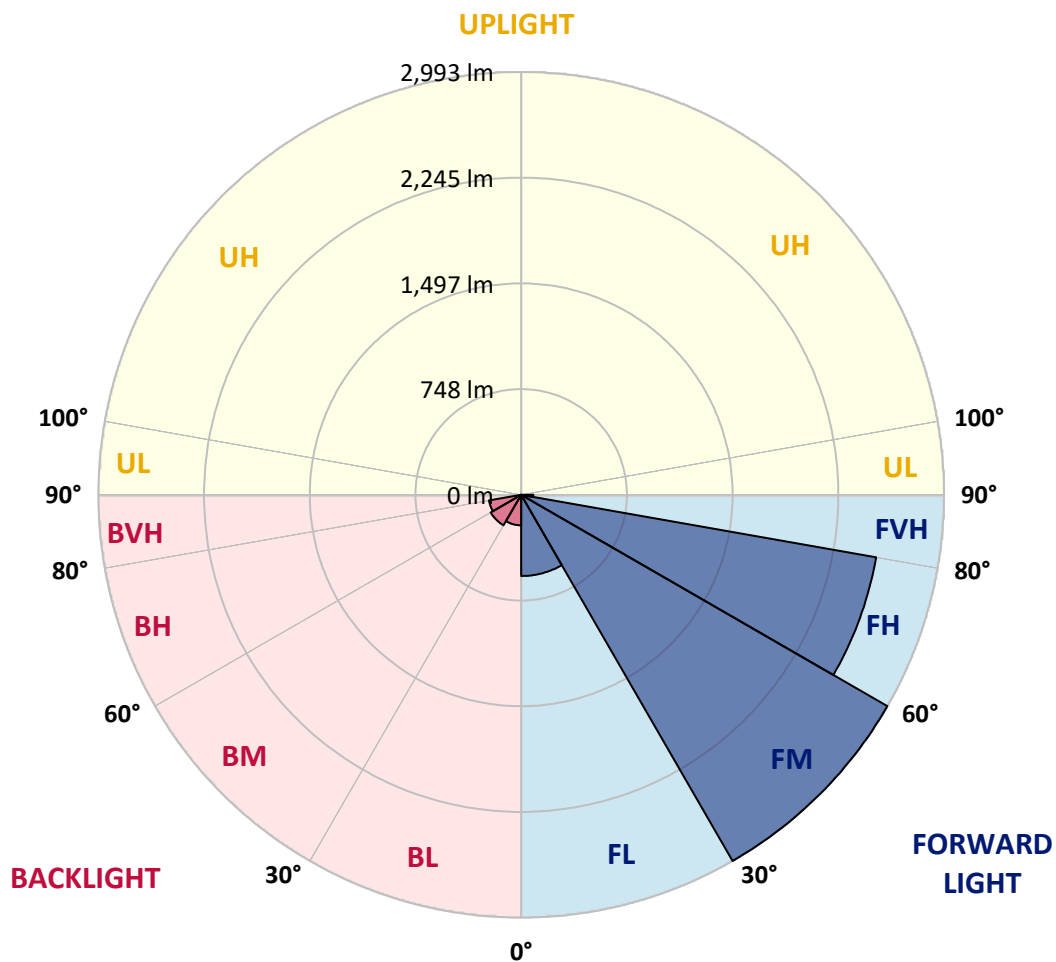
CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-7027-800-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	574.9	8.3			
FM (30°-60°)	2993.3	43.3			
FH (60°-80°)	2551.6	36.9			G2/5000
FVH (80°-90°)	86.5	1.3			G1/100
BL (0°-30°)	215.9	3.1	B1/500		
BM (30°-60°)	249.1	3.6	B1/1000		
BH (60°-80°)	231.1	3.3	B1/500		G1/500
BVH (80°-90°)	3.4	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: P271309

CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-7027-800-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1538.5	1538.5	1538.5	1538.5	1538.5	1538.5	1538.5	1538.5	1538.5	1538.5	1538.5
2.5°	1618.1	1619.4	1618.7	1620.5	1619.4	1611.2	1602.4	1584.2	1585.7	1561.9	1535.3
5°	1504.4	1513.6	1522.7	1532.0	1554.2	1573.8	1597.0	1602.4	1602.4	1581.8	1542.8
7.5°	1388.4	1388.9	1399.2	1411.6	1441.5	1477.3	1531.5	1580.3	1581.3	1586.8	1543.9
10°	1301.0	1303.8	1310.8	1324.5	1354.3	1389.5	1450.1	1526.6	1532.6	1572.8	1533.0
12.5°	1233.4	1236.5	1244.2	1259.9	1287.0	1323.4	1387.3	1474.6	1482.7	1559.1	1529.9
15°	1181.4	1185.7	1191.6	1207.3	1236.5	1275.1	1345.0	1439.9	1449.7	1553.7	1540.1
17.5°	1159.6	1159.6	1159.1	1170.0	1199.1	1238.3	1311.3	1421.4	1434.0	1558.0	1557.5
20°	1168.9	1167.2	1155.8	1153.1	1171.0	1209.9	1284.8	1409.5	1423.6	1566.1	1578.6
22.5°	1217.7	1214.4	1188.8	1167.7	1162.2	1188.3	1266.9	1401.4	1418.2	1583.0	1606.8
25°	1321.1	1311.3	1276.1	1228.4	1185.7	1182.9	1254.5	1397.0	1414.9	1602.4	1637.7
27.5°	1455.6	1452.9	1396.4	1332.5	1250.1	1200.8	1250.7	1393.8	1411.6	1616.6	1662.7
30°	1622.6	1623.6	1558.6	1475.0	1350.4	1251.2	1262.6	1392.2	1410.6	1617.7	1673.5
32.5°	1795.0	1796.0	1741.9	1652.3	1487.6	1337.9	1296.3	1399.7	1416.5	1613.4	1673.0
35°	1960.8	1962.4	1929.9	1857.9	1670.8	1458.3	1359.7	1425.8	1437.6	1616.1	1671.8
37.5°	2170.7	2177.1	2137.0	2069.9	1900.6	1635.1	1463.2	1478.3	1488.1	1638.2	1680.0
40°	2528.4	2519.7	2404.9	2290.9	2150.1	1850.2	1612.7	1568.9	1572.2	1695.7	1710.9
42.5°	2945.4	2934.5	2737.7	2541.5	2406.5	2109.8	1804.2	1707.7	1707.0	1792.3	1778.1
45°	3304.1	3297.7	3090.6	2828.8	2690.6	2396.7	2040.1	1907.7	1901.3	1959.3	1900.6
47.5°	3558.9	3553.5	3396.9	3134.5	3019.1	2712.3	2334.3	2180.4	2166.8	2177.8	2099.6
50°	3584.0	3577.9	3523.2	3354.6	3402.9	3175.1	2698.1	2537.6	2520.4	2503.4	2400.5
52.5°	3350.8	3350.3	3379.1	3368.1	3671.7	3770.9	3144.2	2979.5	2958.8	2916.1	2813.6
55°	2874.2	2871.6	2980.5	3138.9	3665.9	4385.7	3824.7	3505.4	3478.1	3392.5	3258.2
57.5°	2100.1	2086.0	2313.8	2649.3	3408.3	4654.6	4905.0	4158.6	4113.6	3842.1	3634.9
60°	1159.6	1165.0	1457.8	1855.1	2798.4	4601.5	5899.3	4920.2	4802.1	4229.6	4020.9
62.5°	650.1	663.6	881.4	1205.6	1784.2	4170.6	6432.8	6231.2	5946.5	4681.6	4508.9
65°	491.7	499.8	609.3	930.3	1124.9	2914.5	6517.8	8063.9	7818.4	5367.0	5285.6
67.5°	462.9	469.5	523.2	771.5	1024.5	1511.4	5877.2	9148.2	9179.2	6301.6	5887.4
68°	466.2	474.3	528.1	742.2	1023.0	1351.9	5603.8	9153.5	9219.2	6452.3	5866.8
70°	428.3	430.5	558.3	728.0	991.5	1065.3	4054.0	8526.4	8644.0	6631.6	5325.7
72.5°	163.8	164.3	250.4	630.5	1038.7	1071.1	2042.1	6739.1	6745.1	5771.4	4152.1
75°	85.1	71.5	78.6	197.4	992.1	1044.1	1024.5	4601.5	4572.7	3903.2	2544.2
77.5°	58.6	49.9	52.6	68.4	412.5	1043.7	740.1	2646.0	2640.1	1660.4	725.9
80°	33.1	28.7	31.4	57.4	144.7	979.6	689.5	1137.3	1071.8	291.7	117.7
82.5°	16.8	14.2	16.8	48.2	90.0	616.3	670.7	446.2	397.4	69.3	76.4
85°	4.3	4.3	8.2	33.5	55.9	202.2	601.2	322.0	289.6	30.4	54.2
87.5°	1.1	0.5	3.2	12.4	20.0	43.8	333.5	179.4	154.5	15.7	31.4
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: P271309

CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-7027-800-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1538.5	1538.5	1538.5	1538.5	1538.5	1538.5	1538.5	1538.5	1538.5	1538.5	1538.5
2.5°	1524.5	1509.2	1479.4	1445.8	1421.9	1396.0	1380.8	1362.3	1348.3	1335.8	1345.0
5°	1519.0	1489.7	1423.6	1349.3	1287.0	1227.4	1182.9	1140.6	1108.6	1088.6	1096.7
7.5°	1504.9	1461.5	1354.3	1238.3	1136.3	1040.2	962.3	892.3	838.1	808.8	818.0
10°	1481.0	1419.9	1275.7	1114.5	972.1	836.5	720.5	616.3	537.7	501.0	509.6
12.5°	1463.7	1382.9	1194.2	995.3	807.8	615.2	461.3	342.1	280.8	244.0	247.3
15°	1456.2	1354.3	1118.4	869.6	628.4	395.3	249.4	180.5	159.4	151.9	152.4
17.5°	1457.2	1331.5	1046.3	738.9	447.3	227.1	152.9	137.7	134.4	132.8	132.8
20°	1459.9	1308.7	971.4	602.9	286.2	146.3	127.4	122.4	120.9	118.8	119.3
22.5°	1468.0	1291.4	896.1	466.2	176.2	119.3	112.7	108.4	105.7	102.4	102.9
25°	1480.5	1278.3	821.9	335.5	124.1	104.2	98.2	92.2	87.2	83.5	84.0
27.5°	1488.1	1259.9	742.7	228.8	102.9	91.1	83.0	74.7	69.3	66.1	65.5
30°	1482.7	1230.0	652.7	150.1	91.1	78.6	68.8	59.6	54.2	51.6	51.6
32.5°	1468.0	1191.6	553.4	109.6	80.8	67.7	55.9	47.7	43.8	42.3	42.8
35°	1451.2	1151.4	447.7	92.7	72.7	57.4	45.5	39.0	37.4	36.9	36.9
37.5°	1442.0	1116.8	346.3	84.0	65.0	47.7	37.4	33.5	32.0	32.0	32.0
40°	1452.3	1090.3	256.5	77.6	57.4	39.5	31.4	28.7	28.1	28.1	28.1
42.5°	1496.2	1081.0	187.6	72.1	49.9	33.1	27.0	25.0	24.4	25.0	25.0
45°	1581.8	1101.1	142.0	66.7	42.8	27.0	23.4	21.6	21.6	22.2	22.2
47.5°	1727.3	1152.5	116.6	61.3	35.8	22.7	20.0	19.0	19.0	19.6	19.6
50°	1952.6	1247.9	104.7	55.2	29.9	19.6	16.8	16.3	16.3	16.8	17.3
52.5°	2295.3	1429.6	98.6	49.3	24.4	16.3	14.2	13.6	14.2	14.6	14.6
55°	2676.4	1662.1	91.5	43.4	20.7	13.6	11.4	11.4	11.9	13.0	13.0
57.5°	3031.5	1886.6	85.1	35.8	17.8	10.8	9.3	9.3	10.3	11.4	11.4
60°	3406.6	2106.6	76.4	28.7	15.2	8.7	7.5	7.5	9.3	10.3	10.8
62.5°	3870.2	2362.5	65.0	22.7	11.9	6.5	5.4	7.0	8.7	10.3	10.3
65°	4540.3	2680.7	50.9	17.8	9.3	4.9	4.3	6.5	8.2	9.7	10.3
67.5°	4783.7	2640.1	38.4	14.6	7.0	3.9	3.9	6.0	8.2	9.7	9.7
68°	4694.7	2551.1	36.9	14.2	6.5	3.9	3.9	6.0	8.2	9.7	9.7
70°	4090.8	2085.5	30.4	10.8	5.4	3.2	3.2	5.4	8.2	9.3	9.7
72.5°	3063.0	1385.6	26.1	7.0	4.9	3.2	2.8	5.4	7.5	9.3	9.3
75°	1756.9	575.2	22.2	5.4	4.3	2.8	2.8	4.9	7.5	9.3	9.3
77.5°	496.6	134.4	17.8	4.3	3.9	2.8	2.2	4.9	7.0	8.7	8.7
80°	91.1	40.2	14.2	3.9	3.2	2.8	2.2	4.9	7.0	8.7	8.7
82.5°	60.1	19.0	10.3	3.9	3.2	2.8	2.2	4.3	6.5	8.2	8.2
85°	44.9	13.6	6.5	3.9	3.2	2.8	2.2	4.3	6.5	8.2	8.2
87.5°	25.0	6.0	4.9	4.3	3.9	2.8	2.2	3.9	6.0	7.5	7.5
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)