

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: P198799

Luminaire Tested: **XNV2-AF-02-LED-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24127)
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-T4W
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12189.5 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

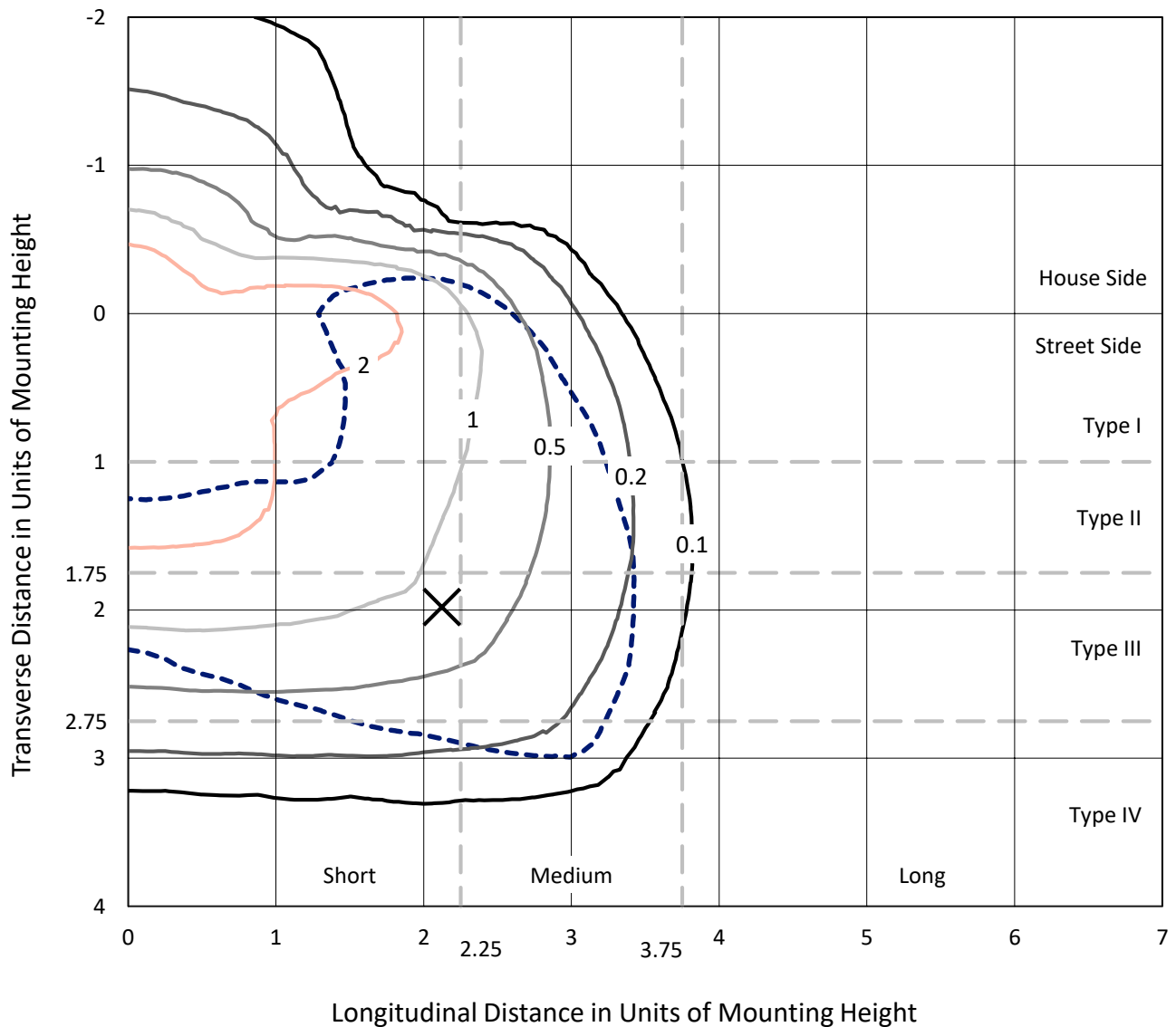
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P198799
 CATALOG NUMBER: XNV2-AF-02-LED-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

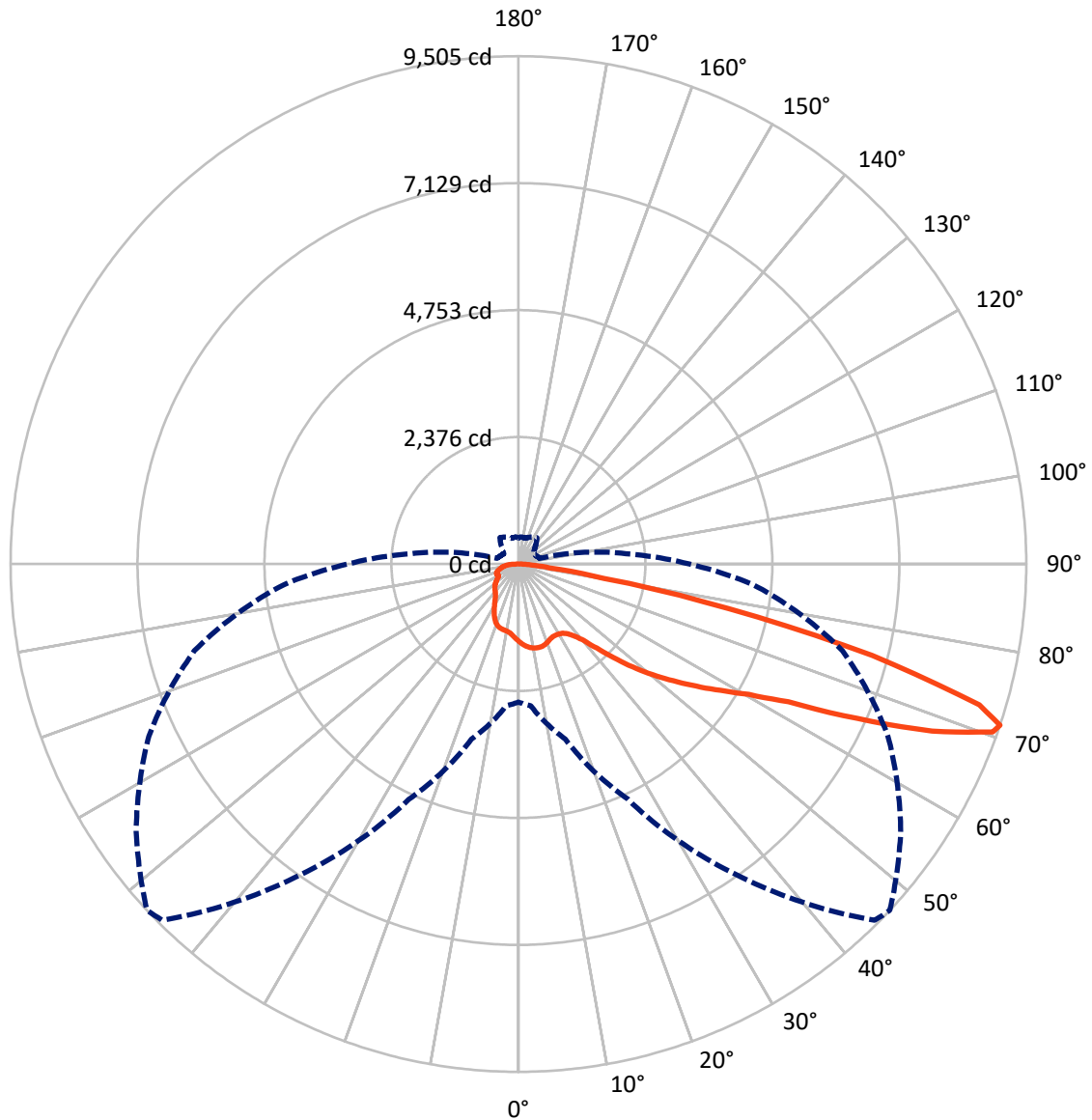


Based on 20 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P198799

CATALOG NUMBER: XNV2-AF-02-LED-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical



REPORT NUMBER: P198799

CATALOG NUMBER: XNV2-AF-02-LED-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2612.4	0.0	2612.4
	% Fixture	21.4	0.0	21.4
Street Side	Lumens	9577.1	0.0	9577.1
	% Fixture	78.6	0.0	78.6
Total	Lumens	12189.5	0.0	12189.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	1.1
10°-20°	404.9	3.3
20°-30°	601.7	4.9
30°-40°	863.9	7.1
40°-50°	1531.7	12.6
50°-60°	2621.0	21.5
60°-70°	3720.9	30.5
70°-80°	2037.9	16.7
80°-90°	269.0	2.2
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°	12189.5	100.0
0°-180°	12189.5	100.0

Coefficient of Utilization



REPORT NUMBER: P198799

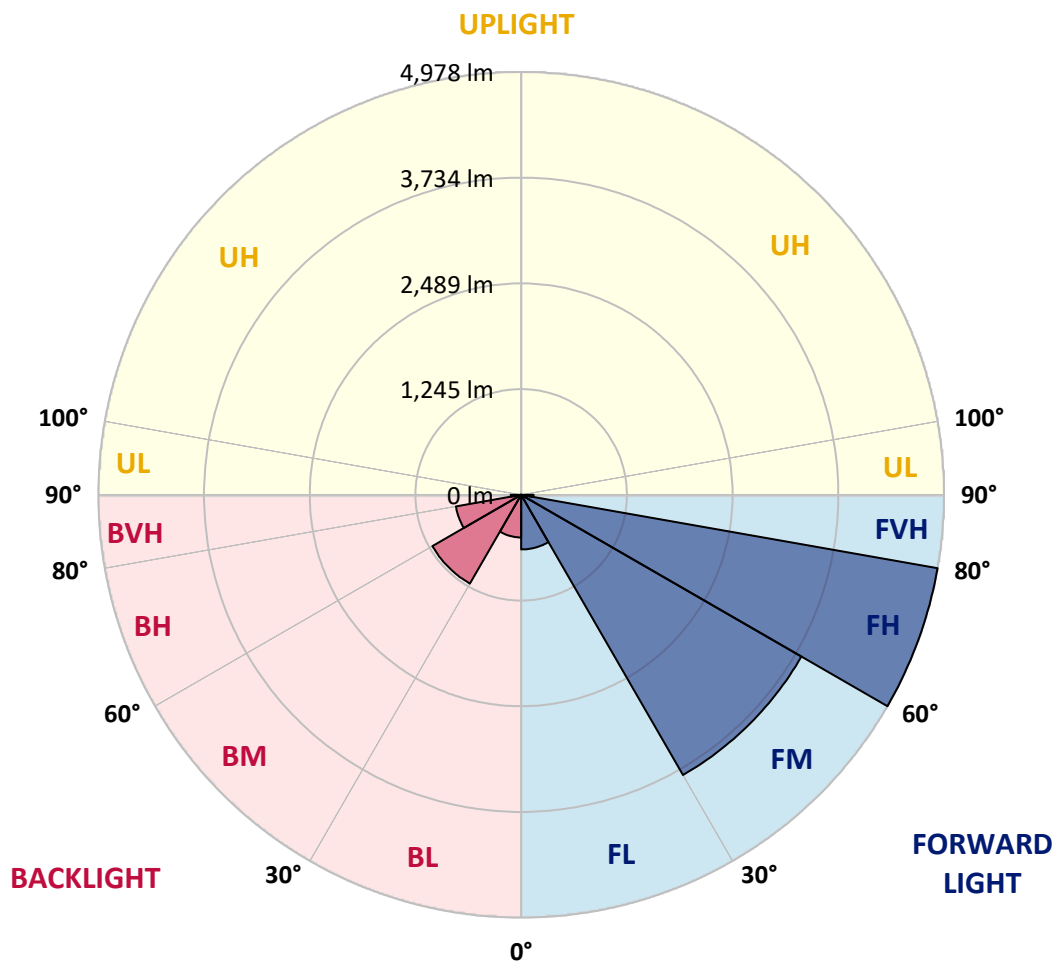
CATALOG NUMBER: XNV2-AF-02-LED-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	643.3	5.3			
FM	(30°-60°)	3809.6	31.3			
FH	(60°-80°)	4978.3	40.8			G2/5000
FVH	(80°-90°)	145.9	1.2			G2/225
BL	(0°-30°)	501.7	4.1	B2/1000		
BM	(30°-60°)	1207.1	9.9	B2/2500		
BH	(60°-80°)	780.5	6.4	B2/1000		G2/1000
BVH	(80°-90°)	123.1	1.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





REPORT NUMBER: P198799

CATALOG NUMBER: XNV2-AF-02-LED-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1449.5	1449.5	1449.5	1449.5	1449.5	1449.5	1449.5	1449.5	1449.5	1449.5	1449.5
2.5°	1538.0	1534.8	1536.5	1530.9	1517.4	1503.2	1503.2	1488.3	1472.4	1456.7	1439.3
5°	1633.6	1628.8	1624.9	1607.6	1581.5	1552.2	1547.5	1517.4	1485.1	1452.7	1421.1
7.5°	1713.3	1708.6	1696.8	1665.2	1627.3	1583.8	1578.3	1538.8	1496.2	1451.2	1406.9
10°	1770.2	1767.0	1744.1	1703.9	1659.6	1608.3	1598.9	1558.6	1508.0	1451.9	1395.8
12.5°	1801.8	1797.1	1769.5	1722.0	1670.0	1617.8	1608.3	1569.6	1511.9	1450.3	1384.8
15°	1789.2	1786.8	1760.8	1712.6	1660.5	1615.4	1607.6	1568.0	1509.6	1444.8	1374.5
17.5°	1735.5	1741.1	1720.5	1673.0	1630.4	1598.9	1590.2	1553.0	1497.7	1431.4	1358.7
20°	1661.3	1667.5	1657.3	1609.1	1584.7	1564.1	1559.3	1529.3	1478.0	1411.6	1339.8
22.5°	1582.2	1587.7	1588.5	1543.5	1535.7	1527.8	1523.8	1502.5	1460.6	1399.8	1327.1
25°	1527.8	1534.0	1535.7	1496.2	1500.9	1503.2	1502.5	1487.5	1457.4	1399.8	1328.7
27.5°	1513.6	1516.7	1515.1	1478.8	1487.5	1500.9	1501.7	1498.5	1470.1	1415.6	1350.8
30°	1562.5	1564.1	1544.3	1489.8	1498.5	1515.9	1516.7	1515.1	1496.9	1456.7	1400.5
32.5°	1774.2	1772.6	1704.6	1564.1	1534.0	1540.4	1542.7	1556.9	1558.6	1524.6	1472.4
35°	2096.5	2095.7	2016.7	1776.6	1635.2	1601.9	1605.1	1627.3	1647.1	1624.1	1594.1
37.5°	2451.2	2453.5	2405.4	2079.9	1853.2	1715.0	1711.8	1728.4	1764.0	1771.9	1775.7
40°	2844.5	2856.4	2854.0	2428.3	2158.9	1907.7	1876.1	1857.2	1925.9	1969.3	2025.4
42.5°	3294.0	3290.8	3292.5	2810.6	2508.1	2211.0	2152.6	2064.1	2143.9	2218.9	2342.1
45°	3680.3	3693.0	3702.5	3217.4	2899.0	2557.8	2498.6	2337.4	2409.4	2521.5	2709.5
47.5°	4069.0	4046.9	4064.2	3670.0	3334.3	2953.6	2876.9	2659.7	2726.9	2884.8	3170.8
50°	4521.6	4511.3	4432.3	4260.9	3860.4	3354.9	3254.5	2996.2	3094.2	3305.1	3740.3
52.5°	4927.7	4872.3	4810.7	4725.4	4377.8	3760.9	3633.7	3346.2	3526.3	3787.8	4447.4
55°	5076.1	5039.1	5113.2	5223.8	4925.3	4174.8	4032.7	3754.5	4013.6	4339.9	5279.1
57.5°	5234.1	5246.7	5414.3	5637.8	5443.4	4616.4	4462.3	4238.0	4548.4	4957.6	6208.9
60°	5313.1	5363.6	5697.8	6117.2	5936.4	5100.6	4952.9	4793.3	5141.7	5640.1	7136.3
62.5°	5326.5	5394.4	5867.6	6285.5	6614.9	5842.4	5671.8	5498.8	5882.7	6394.6	7807.8
65°	5080.1	5184.3	5852.6	6492.5	7233.5	7081.8	6973.6	6671.8	6874.8	7058.9	7922.2
67.5°	4355.7	4469.5	5273.6	6407.2	7729.5	8367.8	8347.3	7901.8	7641.0	7315.6	7073.1
70°	3196.8	3288.5	4061.1	5477.4	7513.1	9377.3	9413.7	8698.8	7855.1	6770.5	5259.4
71°	2585.5	2664.5	3392.8	4862.8	7091.3	9429.5	9505.3	8734.4	7632.3	6278.5	4403.1
72.5°	1609.1	1653.3	2252.9	3670.0	6106.2	8892.3	9020.3	8279.4	6930.9	5306.8	3112.3
75°	607.4	624.8	835.8	1618.6	3644.8	6680.5	6835.4	6257.1	4869.1	3029.4	1302.6
77.5°	326.2	334.9	414.7	673.0	1460.6	3829.6	4028.7	3569.0	2335.8	1060.1	532.4
80°	218.8	224.3	286.7	399.0	671.5	1458.2	1624.1	1432.9	874.4	605.1	379.2
82.5°	141.4	144.5	195.1	262.3	433.6	512.7	585.3	611.4	545.8	433.6	229.0
85°	93.2	95.5	128.8	167.5	268.6	252.8	259.1	338.9	372.0	285.9	116.9
87.5°	53.7	55.3	77.4	86.1	120.8	94.8	102.7	161.1	221.2	186.4	67.1
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: P198799

CATALOG NUMBER: XNV2-AF-02-LED-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1449.5	1449.5	1449.5	1449.5	1449.5	1449.5	1449.5	1449.5	1449.5	1449.5	1449.5
2.5°	1431.4	1425.1	1410.9	1402.2	1398.2	1396.6	1395.0	1398.2	1398.2	1396.6	1393.5
5°	1405.3	1393.5	1369.7	1353.2	1344.5	1342.1	1345.3	1349.2	1351.6	1351.6	1349.2
7.5°	1386.3	1368.9	1337.4	1314.5	1301.0	1297.1	1305.8	1320.0	1329.4	1334.2	1335.0
10°	1370.5	1346.8	1312.0	1288.4	1277.4	1275.7	1286.8	1305.0	1324.7	1333.4	1335.0
12.5°	1356.3	1329.4	1291.6	1269.4	1261.5	1265.5	1280.5	1297.1	1320.0	1332.6	1333.4
15°	1342.9	1315.2	1275.0	1252.1	1250.5	1256.8	1271.0	1284.4	1301.8	1317.7	1317.7
17.5°	1327.1	1297.1	1255.2	1233.9	1233.9	1239.4	1248.9	1256.0	1267.0	1282.1	1281.2
20°	1308.1	1277.4	1234.7	1212.5	1207.8	1204.6	1204.6	1206.3	1215.7	1229.2	1231.5
22.5°	1293.9	1262.3	1217.3	1190.4	1169.1	1148.6	1139.9	1136.7	1145.4	1158.1	1161.3
25°	1293.9	1262.3	1211.8	1166.8	1114.6	1075.1	1058.5	1053.7	1062.4	1074.3	1079.0
27.5°	1315.2	1283.6	1224.4	1145.4	1049.9	986.6	966.9	962.9	970.9	980.3	985.1
30°	1365.0	1334.2	1260.8	1120.9	977.9	895.0	872.9	868.9	872.9	876.9	882.4
32.5°	1448.0	1421.9	1320.0	1098.8	905.3	812.0	785.2	778.9	780.4	781.2	786.0
35°	1583.0	1571.2	1399.0	1072.8	836.6	744.1	716.5	703.8	703.1	707.0	712.5
37.5°	1790.0	1797.1	1500.9	1034.8	779.7	695.9	668.3	655.6	649.4	657.2	663.6
40°	2082.3	2098.9	1618.6	983.5	733.0	667.5	638.2	626.5	617.8	615.4	618.5
42.5°	2462.2	2457.5	1738.6	917.9	682.5	648.6	617.8	605.1	590.9	572.8	568.8
45°	2912.5	2844.5	1839.0	837.3	624.8	630.3	598.7	581.3	559.2	532.4	529.3
47.5°	3444.2	3256.9	1900.5	751.3	571.1	606.7	577.5	550.6	518.2	500.8	498.5
50°	4084.7	3739.6	1944.0	663.6	522.9	576.6	547.4	511.9	480.3	475.6	474.8
52.5°	4843.1	4309.1	1997.7	584.5	485.0	538.0	517.4	481.1	455.8	458.2	458.2
55°	5649.7	4898.4	1999.4	522.1	451.8	493.0	495.3	466.1	446.3	454.2	456.5
57.5°	6385.1	5413.5	1842.1	477.9	420.2	457.4	488.2	471.6	456.5	484.3	486.6
60°	7026.4	5810.0	1504.0	441.6	394.1	444.0	504.0	505.5	502.4	577.5	583.0
62.5°	7261.1	5813.9	1068.0	410.8	379.9	451.8	537.2	539.5	539.5	609.1	619.3
65°	6932.4	5329.7	711.0	392.6	370.5	469.2	564.1	553.7	529.3	577.5	566.4
67.5°	5774.5	4148.8	519.8	380.7	357.0	470.0	587.7	561.6	519.8	560.9	541.9
70°	3968.6	2639.9	435.3	369.7	341.3	449.5	600.4	559.2	505.5	522.9	497.7
71°	3194.5	2106.8	413.2	365.7	334.9	437.6	601.9	556.1	498.5	509.5	486.6
72.5°	2104.4	1297.8	386.3	357.0	325.5	417.1	598.0	549.0	489.0	489.8	474.8
75°	830.2	538.0	347.6	337.3	298.6	383.9	580.6	534.0	470.8	455.0	448.7
77.5°	419.4	351.5	305.7	309.6	267.0	350.0	556.1	509.5	445.5	424.2	419.4
80°	306.5	267.0	261.5	268.6	231.5	316.8	525.3	476.3	413.2	435.3	425.8
82.5°	186.4	162.8	204.6	222.0	193.5	282.8	489.0	437.6	372.0	342.8	331.7
85°	88.5	95.5	147.7	163.5	143.0	226.0	447.1	395.0	324.7	280.4	285.2
87.5°	43.5	52.9	84.5	98.0	94.0	165.9	337.3	306.5	255.9	210.9	206.1
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)