

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: P198641

Luminaire Tested: **XNV2-AF-02-LED-U-T4W-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198641
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-7030-1200
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11571 lumens
Efficiency: N/A
Efficacy: 90.4 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

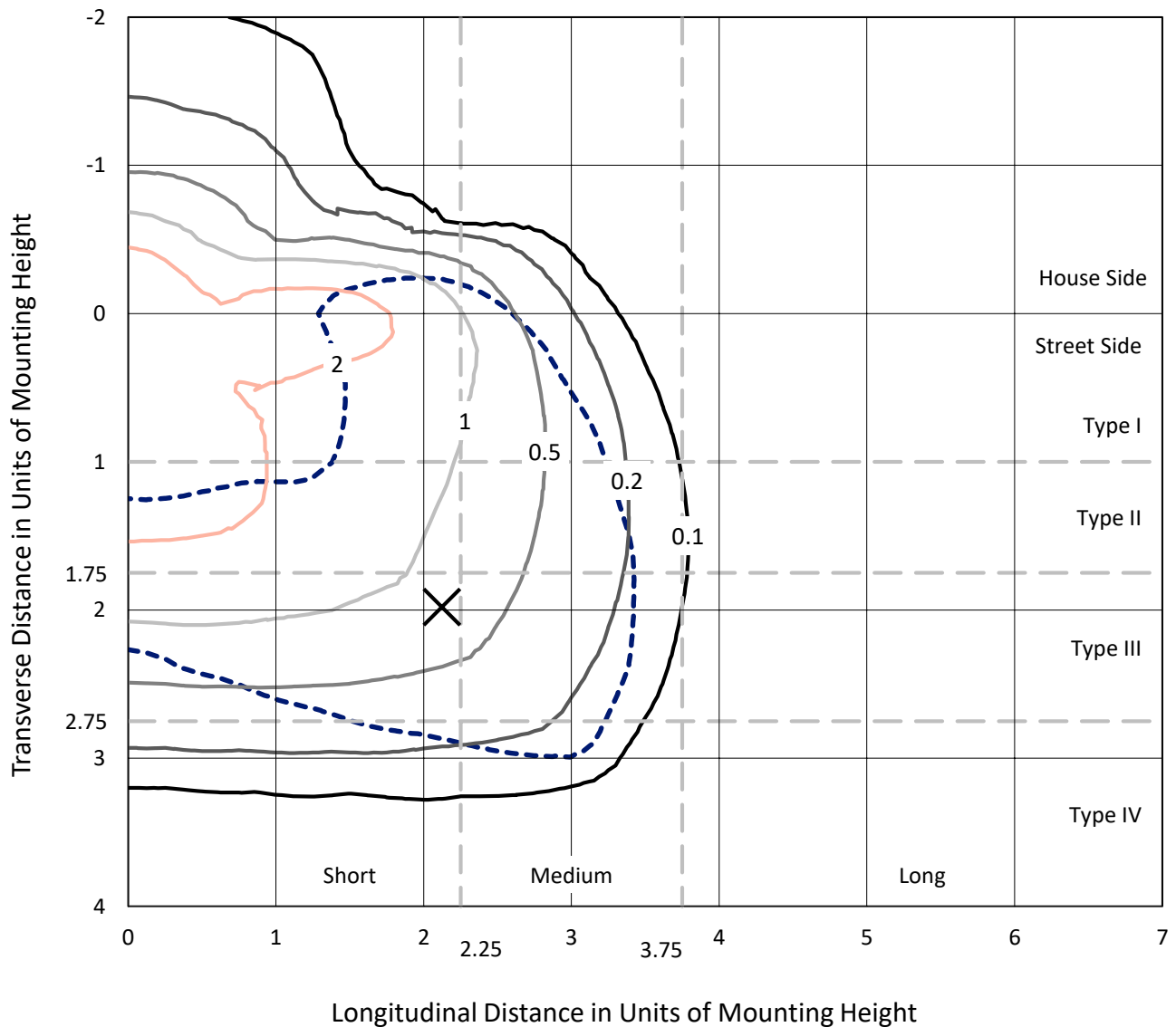
Input Watts (W): 128
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

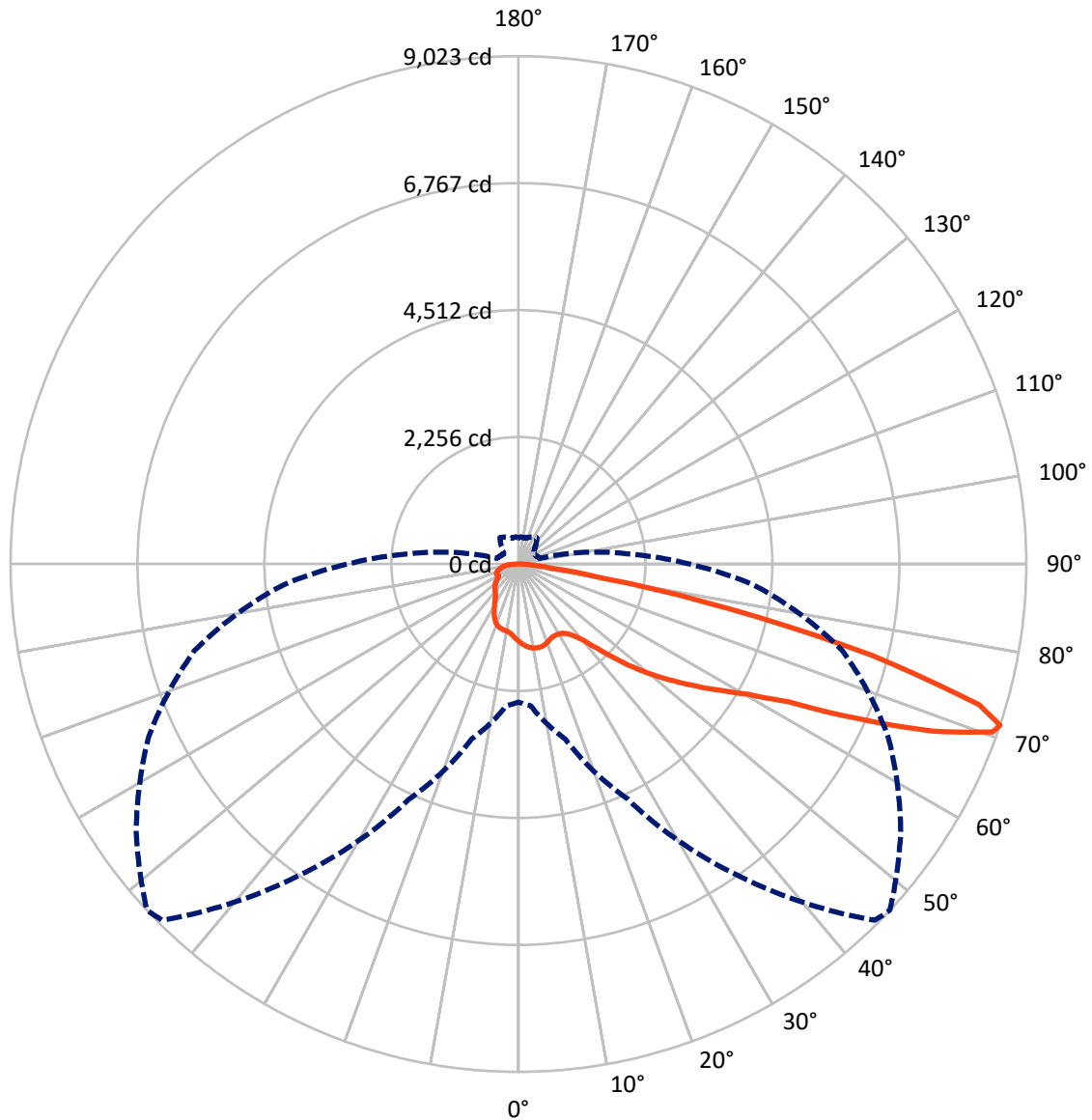


Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2479.8	0.0	2479.8
	% Fixture	21.4	0.0	21.4
Street Side	Lumens	9091.2	0.0	9091.2
	% Fixture	78.6	0.0	78.6
Total	Lumens	11571.0	0.0	11571.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.4	1.1
10°-20°	384.4	3.3
20°-30°	571.1	4.9
30°-40°	820.1	7.1
40°-50°	1454.0	12.6
50°-60°	2488.0	21.5
60°-70°	3532.1	30.5
70°-80°	1934.5	16.7
80°-90°	255.4	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°	11571.0	100.0
0°-180°	11571.0	100.0



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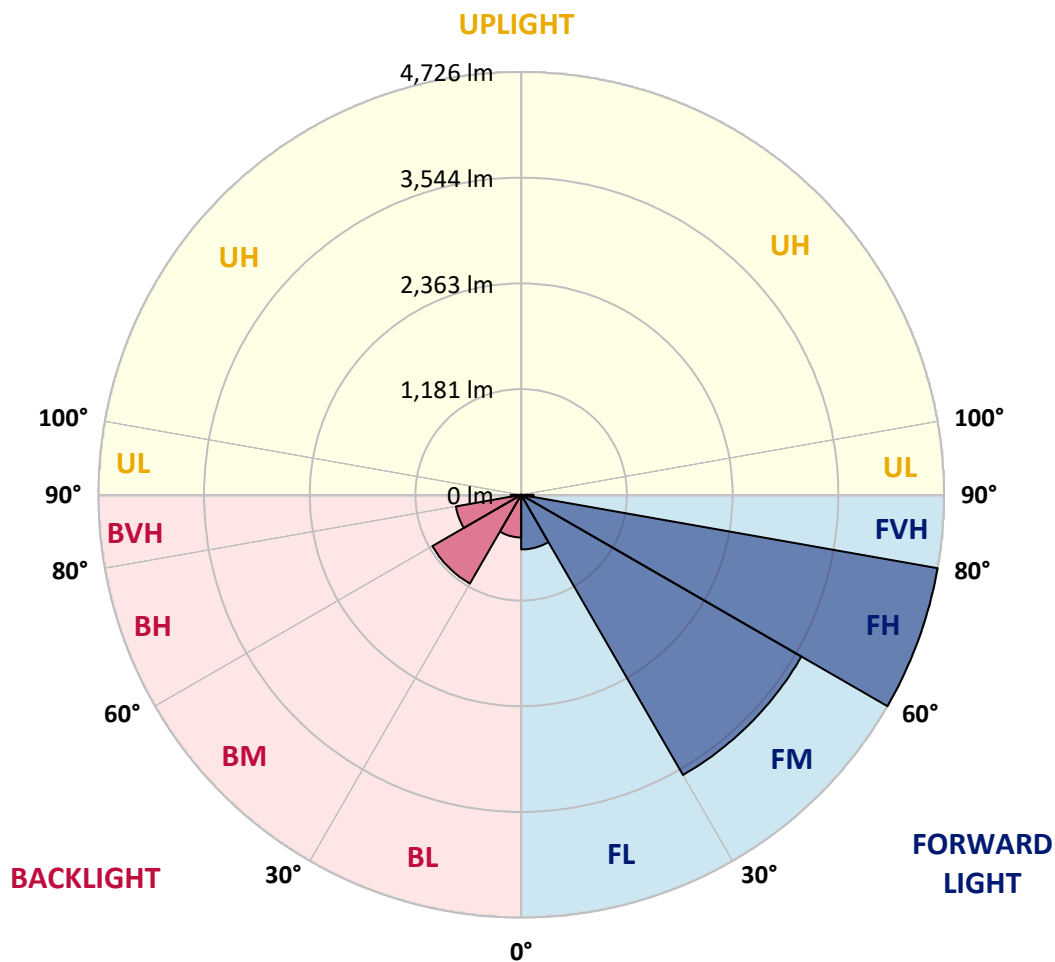
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	610.7	5.3			
FM	(30°-60°)	3616.3	31.3			
FH	(60°-80°)	4725.7	40.8			G2/5000
FVH	(80°-90°)	138.5	1.2			G2/225
BL	(0°-30°)	476.2	4.1	B1/500		
BM	(30°-60°)	1145.8	9.9	B2/2500		
BH	(60°-80°)	740.9	6.4	B2/1000		G2/1000
BVH	(80°-90°)	116.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1376.0	1376.0	1376.0	1376.0	1376.0	1376.0	1376.0	1376.0	1376.0	1376.0	1376.0
2.5°	1460.0	1457.0	1458.5	1453.2	1440.5	1427.0	1427.0	1412.7	1397.7	1382.7	1366.2
5°	1550.7	1546.2	1542.5	1526.0	1501.2	1473.5	1469.0	1440.5	1409.7	1379.0	1349.0
7.5°	1626.4	1621.9	1610.7	1580.7	1544.7	1503.5	1498.2	1460.7	1420.2	1377.5	1335.5
10°	1680.4	1677.4	1655.7	1617.4	1575.4	1526.7	1517.7	1479.5	1431.5	1378.2	1325.0
12.5°	1710.4	1705.9	1679.7	1634.7	1585.2	1535.7	1526.7	1490.0	1435.2	1376.7	1314.5
15°	1698.4	1696.2	1671.4	1625.7	1576.2	1533.5	1526.0	1488.5	1433.0	1371.5	1304.7
17.5°	1647.4	1652.7	1633.2	1588.2	1547.7	1517.7	1509.5	1474.2	1421.7	1358.7	1289.8
20°	1576.9	1582.9	1573.2	1527.5	1504.2	1484.7	1480.2	1451.7	1403.0	1340.0	1271.8
22.5°	1502.0	1507.2	1508.0	1465.2	1457.7	1450.2	1446.5	1426.2	1386.5	1328.7	1259.8
25°	1450.2	1456.2	1457.7	1420.2	1424.7	1427.0	1426.2	1412.0	1383.5	1328.7	1261.3
27.5°	1436.7	1439.7	1438.2	1403.7	1412.0	1424.7	1425.5	1422.5	1395.5	1343.7	1282.3
30°	1483.2	1484.7	1466.0	1414.2	1422.5	1439.0	1439.7	1438.2	1421.0	1382.7	1329.5
32.5°	1684.2	1682.7	1618.2	1484.7	1456.2	1462.2	1464.5	1478.0	1479.5	1447.2	1397.7
35°	1990.1	1989.4	1914.4	1686.4	1552.2	1520.7	1523.7	1544.7	1563.4	1541.7	1513.2
37.5°	2326.8	2329.1	2283.3	1974.4	1759.2	1627.9	1624.9	1640.7	1674.4	1681.9	1685.7
40°	2700.2	2711.5	2709.2	2305.1	2049.4	1810.9	1780.9	1762.9	1828.1	1869.4	1922.6
42.5°	3126.9	3123.9	3125.4	2668.0	2380.8	2098.8	2043.4	1959.4	2035.1	2106.3	2223.3
45°	3493.6	3505.6	3514.6	3054.2	2752.0	2428.0	2371.8	2218.8	2287.1	2393.5	2572.0
47.5°	3862.5	3841.5	3858.0	3483.8	3165.1	2803.7	2731.0	2524.8	2588.5	2738.5	3009.9
50°	4292.2	4282.4	4207.4	4044.7	3664.5	3184.6	3089.4	2844.2	2937.2	3137.4	3550.6
52.5°	4677.6	4625.1	4566.6	4485.6	4155.7	3570.1	3449.3	3176.4	3347.4	3595.6	4221.7
55°	4818.6	4783.3	4853.8	4958.8	4675.4	3963.0	3828.0	3564.1	3810.0	4119.7	5011.3
57.5°	4968.5	4980.5	5139.5	5351.7	5167.3	4382.2	4235.9	4023.0	4317.7	4706.1	5893.9
60°	5043.5	5091.5	5408.7	5806.9	5635.2	4841.8	4701.6	4550.1	4880.8	5354.0	6774.2
62.5°	5056.3	5120.8	5569.9	5966.6	6279.3	5545.9	5384.0	5219.7	5584.2	6070.1	7411.6
65°	4822.3	4921.3	5555.7	6163.1	6866.4	6722.5	6619.7	6333.3	6526.0	6700.7	7520.3
67.5°	4134.7	4242.7	5006.0	6082.1	7337.3	7943.2	7923.7	7500.8	7253.4	6944.4	6714.2
70°	3034.7	3121.7	3855.0	5199.5	7131.9	8901.5	8936.0	8257.4	7456.6	6427.0	4992.5
71°	2454.3	2529.3	3220.6	4616.1	6731.5	8951.0	9023.0	8291.2	7245.1	5959.9	4179.7
72.5°	1527.5	1569.4	2138.6	3483.8	5796.4	8441.1	8562.6	7859.2	6579.2	5037.5	2954.4
75°	576.6	593.1	793.3	1536.5	3459.8	6341.5	6488.5	5939.6	4622.1	2875.7	1236.5
77.5°	309.7	317.9	393.7	638.9	1386.5	3635.3	3824.3	3387.8	2217.3	1006.3	505.4
80°	207.7	213.0	272.2	378.7	637.4	1384.2	1541.7	1360.2	830.1	574.4	359.9
82.5°	134.2	137.2	185.2	249.0	411.7	486.7	555.6	580.4	518.2	411.7	217.5
85°	88.5	90.7	122.2	159.0	255.0	240.0	246.0	321.7	353.2	271.4	111.0
87.5°	51.0	52.5	73.5	81.7	114.7	90.0	97.5	153.0	210.0	177.0	63.7
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°	1376.0	1376.0	1376.0	1376.0	1376.0	1376.0	1376.0	1376.0	1376.0	1376.0	1376.0
2.5°	1358.7	1352.7	1339.2	1331.0	1327.2	1325.7	1324.2	1327.2	1327.2	1325.7	1322.7
5°	1334.0	1322.7	1300.3	1284.5	1276.3	1274.0	1277.0	1280.8	1283.0	1283.0	1280.8
7.5°	1316.0	1299.5	1269.5	1247.8	1235.0	1231.3	1239.5	1253.0	1262.0	1266.5	1267.3
10°	1301.0	1278.5	1245.5	1223.0	1212.5	1211.0	1221.5	1238.8	1257.5	1265.8	1267.3
12.5°	1287.5	1262.0	1226.0	1205.0	1197.5	1201.3	1215.5	1231.3	1253.0	1265.0	1265.8
15°	1274.8	1248.5	1210.3	1188.5	1187.0	1193.0	1206.5	1219.3	1235.8	1250.8	1250.8
17.5°	1259.8	1231.3	1191.5	1171.3	1171.3	1176.5	1185.5	1192.3	1202.8	1217.0	1216.3
20°	1241.8	1212.5	1172.0	1151.0	1146.5	1143.5	1143.5	1145.0	1154.0	1166.8	1169.0
22.5°	1228.3	1198.3	1155.5	1130.0	1109.8	1090.3	1082.0	1079.0	1087.3	1099.3	1102.3
25°	1228.3	1198.3	1150.3	1107.5	1058.0	1020.6	1004.8	1000.3	1008.6	1019.8	1024.3
27.5°	1248.5	1218.5	1162.3	1087.3	996.6	936.6	917.8	914.1	921.6	930.6	935.1
30°	1295.8	1266.5	1196.8	1064.0	928.3	849.6	828.6	824.8	828.6	832.3	837.6
32.5°	1374.5	1349.7	1253.0	1043.0	859.3	770.9	745.4	739.4	740.9	741.6	746.1
35°	1502.7	1491.5	1328.0	1018.3	794.1	706.4	680.1	668.1	667.4	671.1	676.4
37.5°	1699.2	1705.9	1424.7	982.3	740.1	660.6	634.4	622.4	616.4	623.9	629.9
40°	1976.6	1992.4	1536.5	933.6	695.9	633.6	605.9	594.6	586.4	584.1	587.1
42.5°	2337.3	2332.8	1650.4	871.3	647.9	615.6	586.4	574.4	560.9	543.6	539.9
45°	2764.7	2700.2	1745.7	794.8	593.1	598.4	568.4	551.9	530.9	505.4	502.4
47.5°	3269.4	3091.7	1804.2	713.1	542.1	575.9	548.1	522.6	491.9	475.4	473.2
50°	3877.5	3549.8	1845.4	629.9	496.4	547.4	519.7	485.9	455.9	451.4	450.7
52.5°	4597.4	4090.5	1896.4	554.9	460.4	510.7	491.2	456.7	432.7	434.9	434.9
55°	5363.0	4649.9	1897.9	495.7	428.9	467.9	470.2	442.4	423.7	431.2	433.4
57.5°	6061.1	5138.8	1748.7	453.7	398.9	434.2	463.4	447.7	433.4	459.7	461.9
60°	6670.0	5515.2	1427.7	419.2	374.2	421.4	478.4	479.9	476.9	548.1	553.4
62.5°	6892.7	5518.9	1013.8	389.9	360.7	428.9	509.9	512.2	512.2	578.1	587.9
65°	6580.7	5059.3	674.9	372.7	351.7	445.4	535.4	525.6	502.4	548.1	537.6
67.5°	5481.4	3938.2	493.4	361.4	338.9	446.2	557.9	533.1	493.4	532.4	514.4
70°	3767.3	2506.0	413.2	350.9	323.9	426.7	569.9	530.9	479.9	496.4	472.4
71°	3032.4	1999.9	392.2	347.2	317.9	415.4	571.4	527.9	473.2	483.7	461.9
72.5°	1997.6	1232.0	366.7	338.9	308.9	395.9	567.6	521.1	464.2	464.9	450.7
75°	788.1	510.7	329.9	320.2	283.4	364.4	551.1	506.9	446.9	431.9	425.9
77.5°	398.2	333.7	290.2	293.9	253.5	332.2	527.9	483.7	422.9	402.7	398.2
80°	290.9	253.5	248.2	255.0	219.7	300.7	498.7	452.2	392.2	413.2	404.2
82.5°	177.0	154.5	194.2	210.7	183.7	268.4	464.2	415.4	353.2	325.4	314.9
85°	84.0	90.7	140.2	155.2	135.7	214.5	424.4	374.9	308.2	266.2	270.7
87.5°	41.2	50.2	80.2	93.0	89.2	157.5	320.2	290.9	243.0	200.2	195.7
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)