

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: P198880

Luminaire Tested: **XNV-AF-01-LED-U-SL3-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198880
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-SL3-7050-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1200mA 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: 6626 lumens
Efficiency: N/A
Efficacy: 100.4 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 - G2

Input Watts (W): 66
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

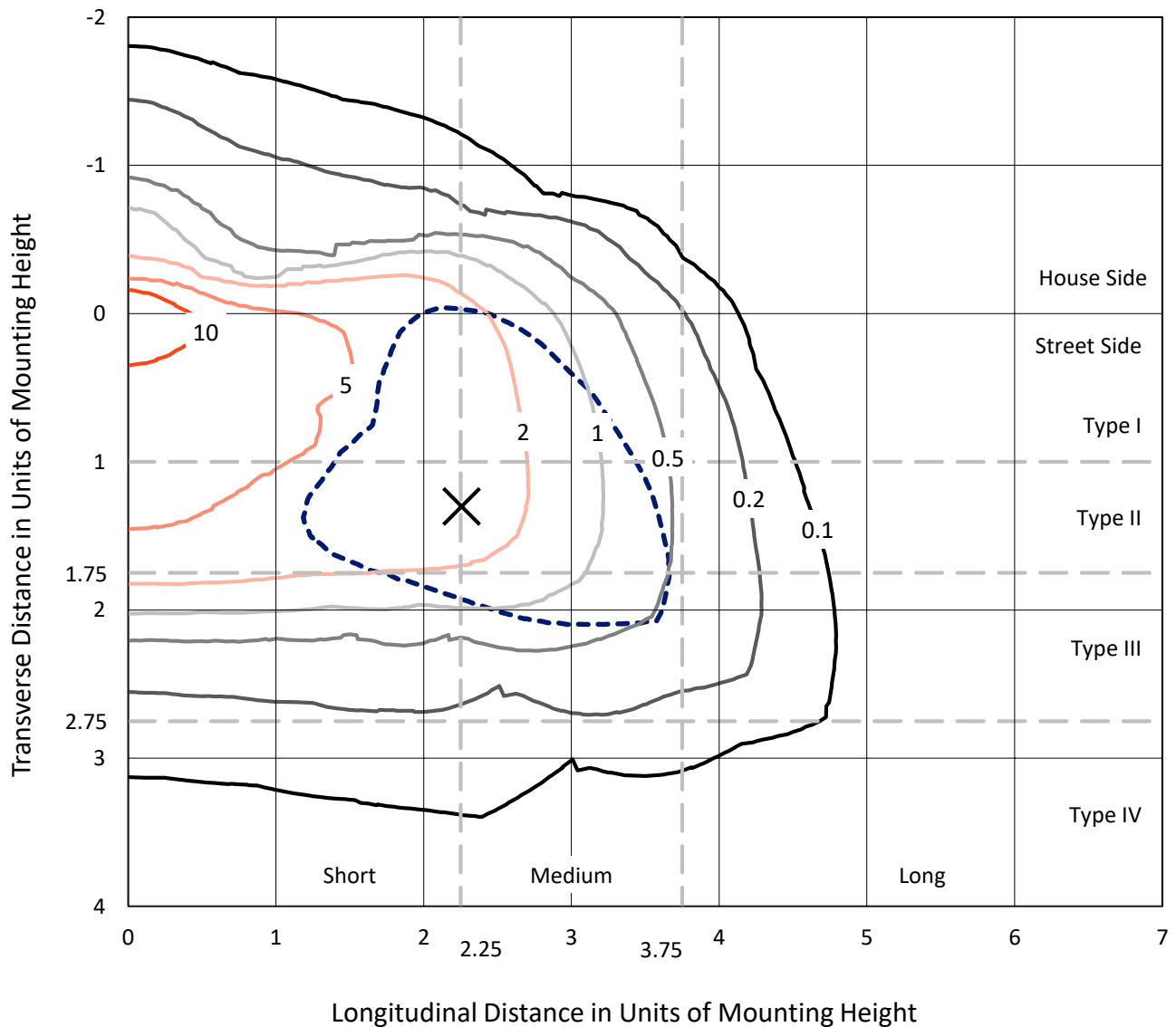


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

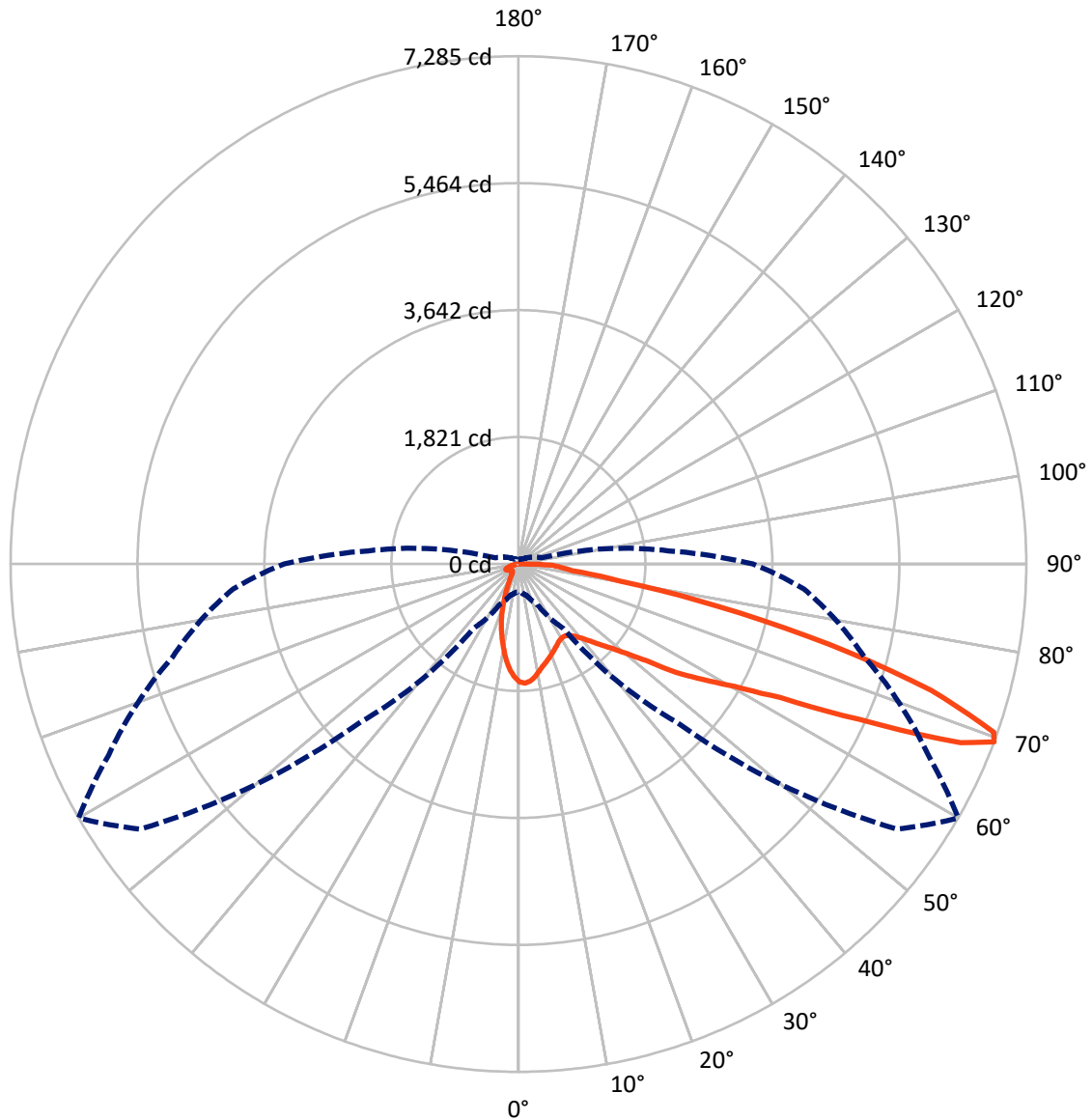


Based on 10 foot mounting height. Maximum calculated value = 16.9 fc
 Type III - Medium - Non-Cutoff

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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
House Side	Lumens	945.1	0.0	945.1
	% Fixture	14.3	0.0	14.3
Street Side	Lumens	5680.9	0.0	5680.9
	% Fixture	85.7	0.0	85.7
Total	Lumens	6626.0	0.0	6626.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.4	2.2
10°-20°	307.1	4.6
20°-30°	391.7	5.9
30°-40°	539.1	8.1
40°-50°	873.2	13.2
50°-60°	1370.5	20.7
60°-70°	1827.1	27.6
70°-80°	1016.3	15.3
80°-90°	157.6	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°	6626.0	100.0
0°-180°	6626.0	100.0

Coefficient of Utilization



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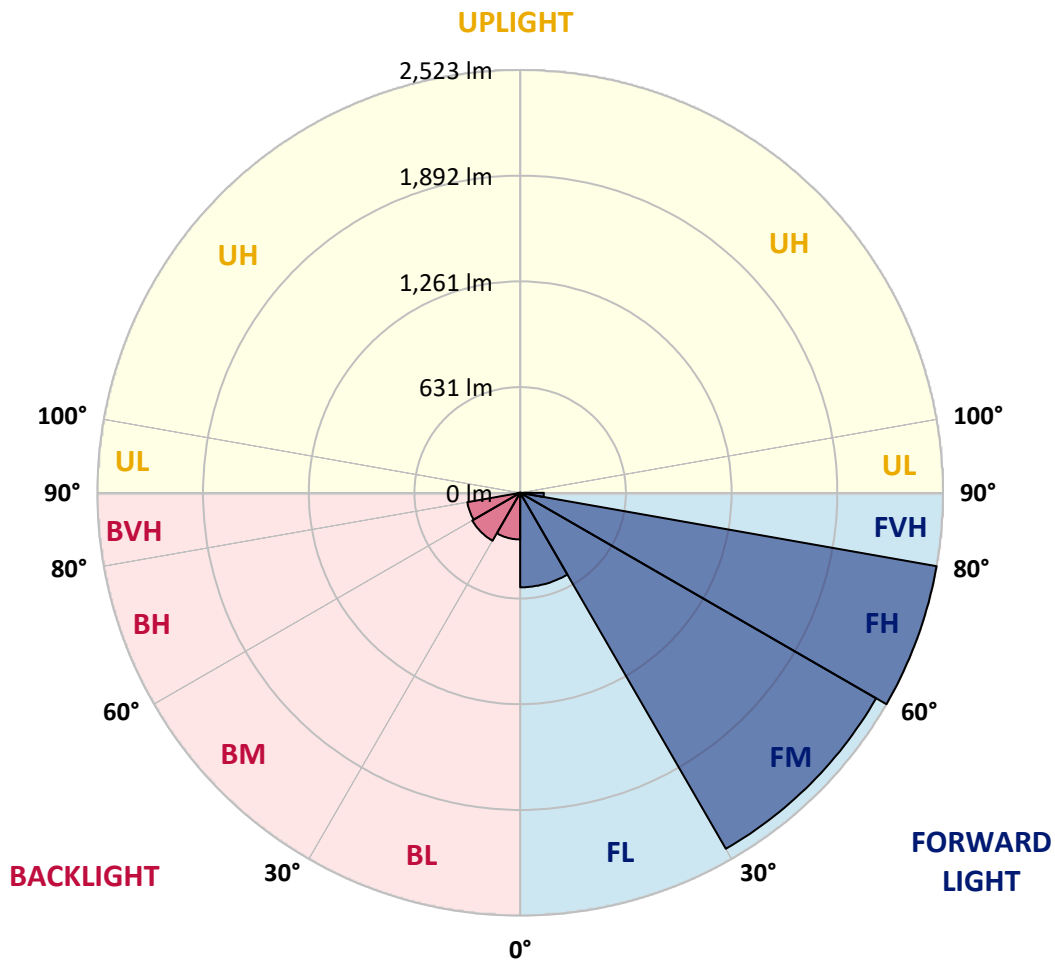
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	563.7	8.5			
FM (30°-60°)	2452.6	37.0			
FH (60°-80°)	2522.9	38.1			G2/5000
FVH (80°-90°)	141.6	2.1			G2/225
BL (0°-30°)	278.5	4.2	B1/500		
BM (30°-60°)	330.2	5.0	B1/1000		
BH (60°-80°)	320.4	4.8	B1/500		G1/500
BVH (80°-90°)	16.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1690.6	1690.6	1690.6	1690.6	1690.6	1690.6	1690.6	1690.6	1690.6	1690.6	1690.6
2.5°	1735.7	1740.4	1740.4	1736.5	1734.4	1722.1	1714.9	1709.8	1700.8	1684.3	1669.4
5°	1673.6	1682.6	1686.4	1688.1	1699.1	1695.3	1695.7	1692.3	1684.7	1666.9	1642.6
7.5°	1559.8	1561.5	1568.3	1579.7	1606.5	1625.2	1640.5	1643.5	1641.8	1628.6	1594.6
10°	1447.6	1450.6	1458.7	1478.2	1503.7	1530.5	1563.6	1577.2	1587.4	1583.1	1540.2
12.5°	1354.6	1355.0	1363.9	1386.4	1414.9	1448.5	1493.5	1514.7	1539.0	1548.7	1500.7
15°	1264.9	1270.9	1279.3	1306.5	1341.8	1384.3	1436.1	1465.5	1497.3	1525.4	1470.1
17.5°	1196.9	1201.6	1206.7	1229.2	1270.0	1323.1	1387.3	1418.7	1460.8	1503.7	1438.7
20°	1159.5	1161.2	1157.4	1168.5	1202.9	1260.2	1334.6	1372.4	1422.5	1482.9	1406.4
22.5°	1151.9	1151.9	1137.9	1135.7	1151.0	1199.5	1280.2	1326.5	1387.7	1468.4	1377.5
25°	1187.6	1185.0	1158.7	1134.5	1128.9	1153.6	1228.4	1285.3	1358.0	1468.0	1355.8
27.5°	1255.1	1251.7	1219.0	1178.2	1143.0	1132.3	1188.4	1246.6	1334.6	1482.4	1344.8
30°	1339.3	1338.0	1304.8	1253.9	1195.6	1140.8	1172.7	1226.7	1318.9	1509.2	1344.4
32.5°	1431.5	1425.5	1405.1	1354.1	1278.5	1188.0	1182.0	1227.5	1314.6	1548.3	1354.1
35°	1529.6	1525.4	1520.3	1468.9	1383.9	1271.3	1223.3	1256.8	1335.4	1602.7	1381.7
37.5°	1654.5	1649.9	1658.4	1602.3	1509.2	1380.5	1292.9	1315.5	1377.9	1681.7	1433.2
40°	1876.7	1863.2	1839.4	1753.1	1655.4	1514.3	1393.6	1397.0	1450.6	1787.5	1515.6
42.5°	2241.7	2198.0	2080.3	1921.8	1809.6	1669.8	1524.9	1508.8	1550.9	1927.3	1635.4
45°	2607.6	2558.3	2359.4	2105.8	1969.4	1836.8	1687.2	1648.6	1675.8	2090.0	1789.6
47.5°	2843.8	2819.6	2595.2	2289.7	2136.8	2018.7	1872.9	1809.2	1828.7	2274.4	1980.0
50°	2913.1	2892.2	2715.9	2433.8	2294.8	2238.3	2102.8	2018.2	2021.6	2489.9	2208.2
52.5°	2861.2	2852.7	2735.9	2523.0	2440.2	2469.9	2421.0	2303.3	2275.3	2726.1	2455.5
55°	2792.0	2794.9	2749.9	2612.7	2588.0	2685.7	2837.4	2742.7	2623.7	2972.1	2712.9
57.5°	2574.0	2576.1	2694.2	2783.5	2870.1	2988.3	3161.6	3121.7	2983.2	3237.7	3001.4
60°	2072.6	2089.2	2352.2	2748.2	3192.6	3584.4	3626.9	3558.0	3365.6	3543.6	3376.6
62.5°	1480.7	1495.6	1800.3	2385.8	3154.8	4259.1	4486.0	4212.4	3884.4	4001.2	3904.3
65°	778.0	775.4	1011.2	1648.6	2657.3	4415.5	5839.7	5374.0	4758.4	4630.5	4414.2
67.5°	434.7	448.7	540.0	831.5	1731.9	3886.1	6704.4	6841.6	5973.6	5129.7	4392.1
69°	401.9	406.6	467.8	642.9	1128.9	3206.2	6630.0	7284.8	6486.0	5131.8	4109.1
70°	390.5	395.6	451.2	592.3	948.4	2627.1	6359.4	7232.9	6610.5	5018.0	3851.6
72.5°	350.1	356.9	410.9	532.4	799.2	1354.1	5122.5	6190.7	5988.0	4385.7	2986.6
75°	298.7	310.2	391.8	528.6	757.2	860.8	3416.1	4612.2	4456.7	3136.6	1694.5
77.5°	123.6	124.9	171.2	387.1	794.5	823.9	1836.0	2921.6	2586.3	1375.4	510.3
80°	86.3	84.6	85.4	113.0	641.2	829.4	942.0	1485.8	1154.9	362.9	238.8
82.5°	72.7	71.8	75.2	71.0	217.1	941.1	787.7	774.6	543.9	195.5	113.9
85°	48.0	46.7	61.6	64.6	103.2	747.4	847.2	608.9	405.3	104.5	48.4
87.5°	23.4	23.8	35.3	43.8	54.8	236.7	811.5	481.4	313.1	45.5	19.5
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°	1690.6	1690.6	1690.6	1690.6	1690.6	1690.6	1690.6	1690.6	1690.6	1690.6	1690.6
2.5°	1663.5	1650.7	1639.2	1624.8	1613.7	1604.4	1591.6	1591.2	1589.1	1592.1	1592.9
5°	1626.5	1605.2	1572.9	1536.8	1511.3	1477.8	1445.1	1434.0	1421.7	1420.4	1424.2
7.5°	1570.8	1537.7	1482.4	1427.2	1372.0	1315.5	1261.9	1234.7	1208.4	1200.3	1204.1
10°	1508.8	1466.7	1382.2	1292.1	1214.3	1130.2	1048.6	995.9	947.9	927.5	932.6
12.5°	1460.4	1406.8	1287.8	1171.0	1054.6	933.9	826.4	722.3	643.7	608.4	610.6
15°	1418.7	1350.3	1199.5	1044.0	898.2	732.9	583.8	463.1	394.3	368.8	368.0
17.5°	1373.7	1290.8	1107.3	925.8	736.8	532.4	390.9	319.5	292.3	283.8	283.8
20°	1325.7	1229.6	1010.8	797.1	566.8	371.8	294.0	266.4	256.2	253.7	253.2
22.5°	1281.0	1169.7	913.9	659.9	410.0	282.1	250.3	239.6	237.9	240.1	240.1
25°	1245.8	1117.0	815.8	515.4	298.3	236.2	222.6	221.4	227.7	235.4	236.7
27.5°	1219.4	1069.9	718.9	376.5	234.5	205.6	201.0	206.5	221.4	236.7	239.6
30°	1201.2	1029.5	602.9	270.7	195.5	180.2	182.3	192.1	214.6	237.9	244.3
32.5°	1193.1	996.8	486.1	207.8	167.0	158.5	164.0	176.8	200.1	223.5	231.1
35°	1200.7	973.0	378.2	172.5	146.2	139.8	146.2	159.3	174.6	186.1	190.8
37.5°	1228.4	964.5	284.7	153.0	132.6	126.2	131.3	140.2	147.0	151.3	153.4
40°	1286.6	973.4	223.1	142.8	124.9	117.7	119.0	123.2	127.9	131.3	131.7
42.5°	1379.2	1002.7	198.4	138.9	120.2	110.9	108.8	111.7	116.8	121.5	122.4
45°	1502.4	1051.6	195.9	140.2	118.1	105.4	101.1	104.1	110.9	118.5	119.8
47.5°	1661.8	1128.9	207.8	147.0	119.4	102.4	96.0	99.0	107.9	118.1	119.8
50°	1850.4	1236.0	229.9	157.2	125.3	102.4	93.9	96.5	105.8	117.3	119.0
52.5°	2072.6	1385.1	252.8	167.4	133.8	106.2	94.8	94.3	102.8	113.4	115.6
55°	2317.8	1570.4	274.9	176.3	138.5	111.3	96.9	91.8	98.6	107.1	108.8
57.5°	2606.3	1824.1	313.6	184.8	141.1	115.1	99.4	89.2	93.1	99.0	100.3
60°	2997.6	2196.7	388.8	199.3	145.7	116.8	99.8	86.7	86.3	90.5	90.9
62.5°	3507.9	2633.1	460.6	216.3	155.1	117.3	98.2	85.0	80.7	82.0	82.0
65°	3870.8	2793.7	439.8	230.7	163.6	116.8	96.5	83.7	76.5	74.4	74.4
67.5°	3664.3	2467.8	373.5	234.5	164.4	112.2	92.6	80.7	72.7	67.6	67.6
69°	3360.9	2163.1	342.9	227.7	157.6	106.6	88.4	77.8	70.1	64.2	64.2
70°	3113.6	1932.4	324.2	219.7	149.6	102.0	84.6	74.8	67.6	62.5	62.0
72.5°	2324.6	1289.5	277.0	189.5	122.8	86.3	73.9	66.7	60.8	57.4	57.4
75°	1226.7	646.3	226.9	154.7	94.8	68.8	60.8	56.1	52.7	52.3	51.8
77.5°	401.9	292.3	163.2	116.4	69.7	53.5	48.4	45.5	45.0	46.7	46.7
80°	217.1	174.6	104.9	78.6	48.4	39.9	37.4	37.0	38.2	40.8	40.8
82.5°	105.4	86.3	62.5	48.4	33.1	29.3	29.3	29.7	31.4	34.4	34.4
85°	45.5	40.8	36.1	27.2	20.4	18.3	20.8	22.9	24.2	26.3	27.2
87.5°	21.7	19.1	16.6	10.6	8.9	9.3	11.0	13.6	16.1	17.8	18.3
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)