

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: P198720

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198720  
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-SL3-1200  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 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: 6778.1 lumens  
Efficiency: N/A  
Efficacy: 102.7 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

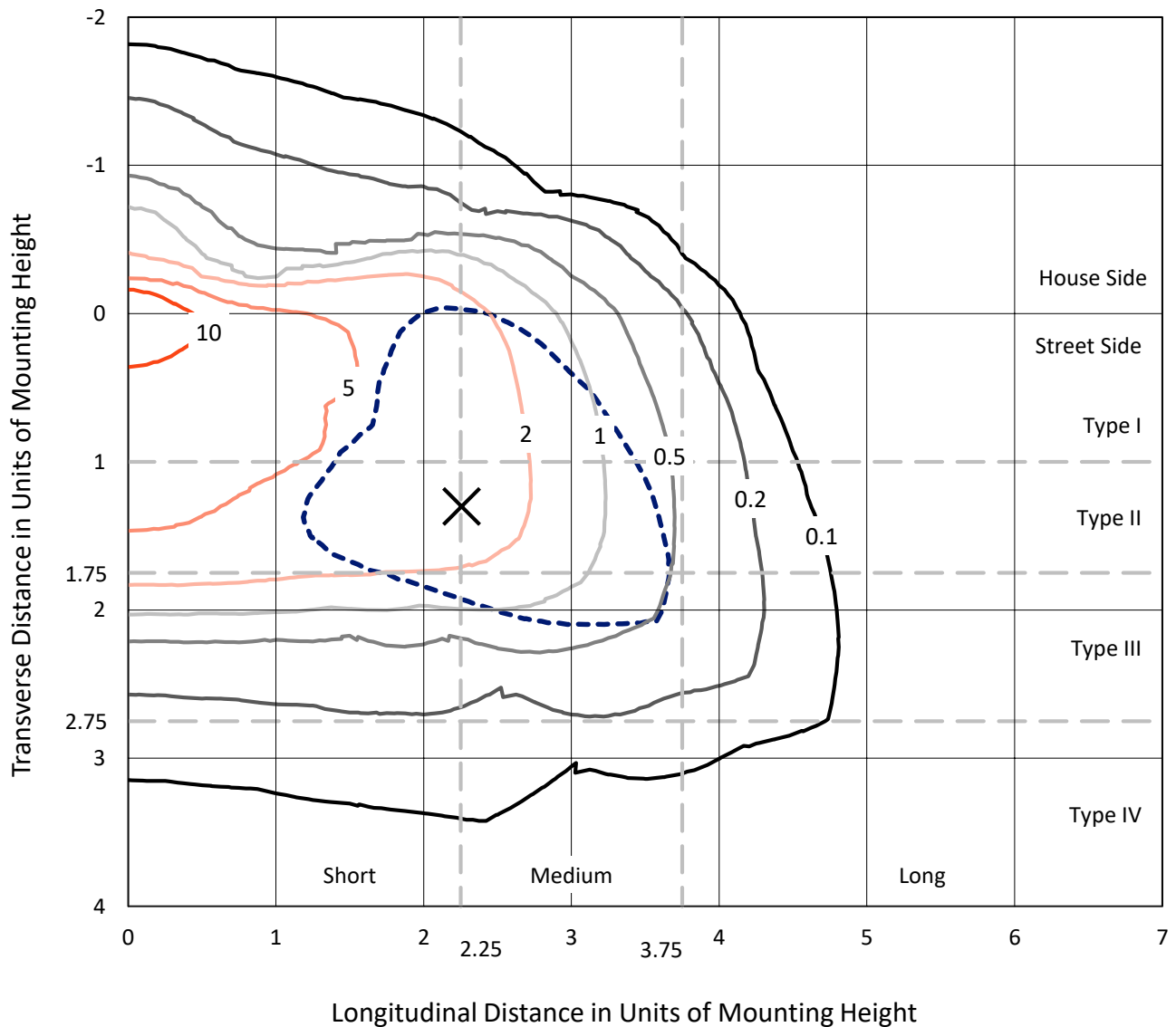
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

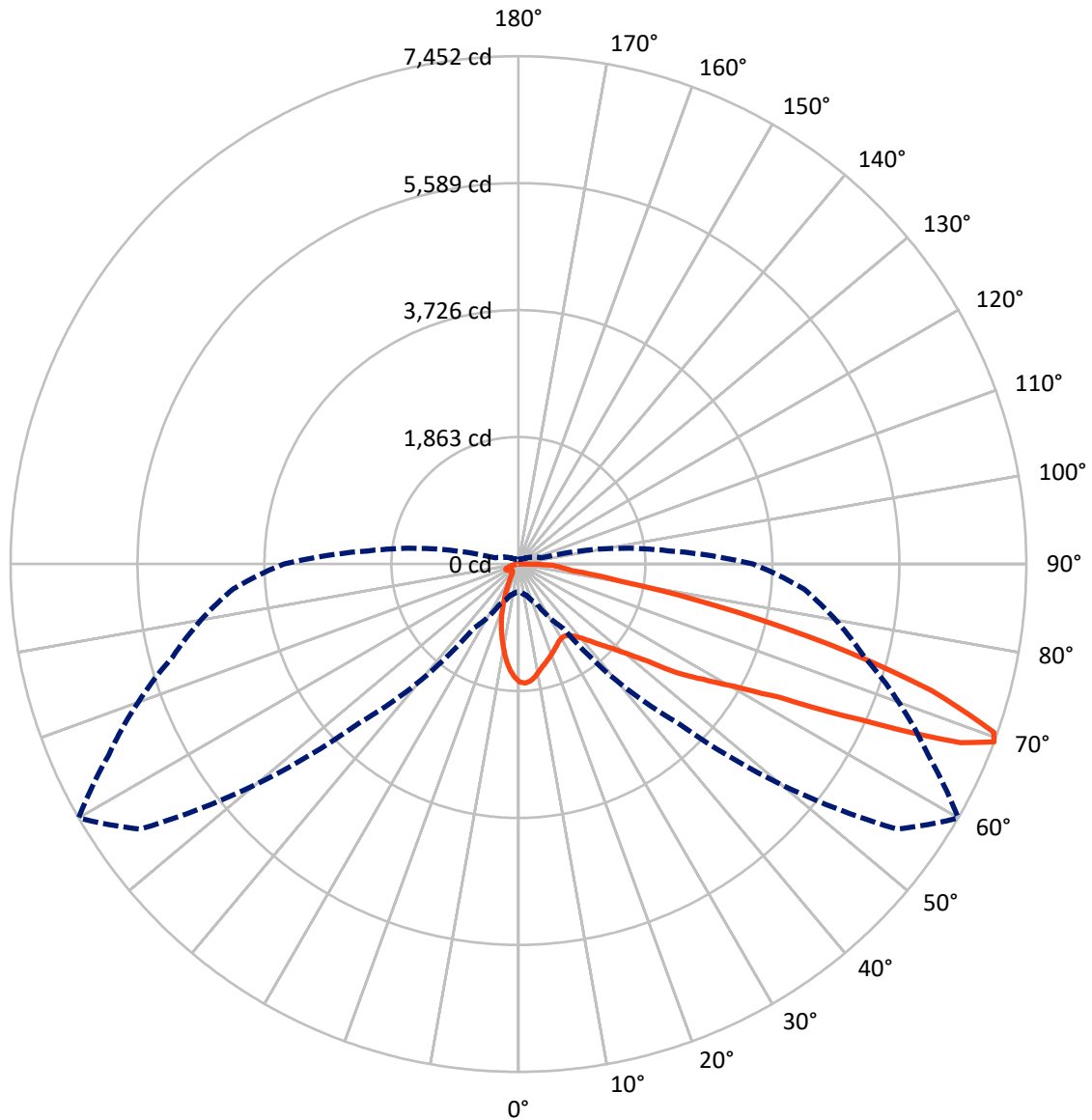
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.3 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
<b>House Side</b>	Lumens	966.8	0.0	966.8
	% Fixture	14.3	0.0	14.3
<b>Street Side</b>	Lumens	5811.3	0.0	5811.3
	% Fixture	85.7	0.0	85.7
<b>Total</b>	Lumens	6778.1	0.0	6778.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.7	2.2
10°-20°	314.1	4.6
20°-30°	400.7	5.9
30°-40°	551.5	8.1
40°-50°	893.2	13.2
50°-60°	1401.9	20.7
60°-70°	1869.0	27.6
70°-80°	1039.6	15.3
80°-90°	161.2	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°	6778.1	100.0
0°-180°	6778.1	100.0

**Coefficient of Utilization**



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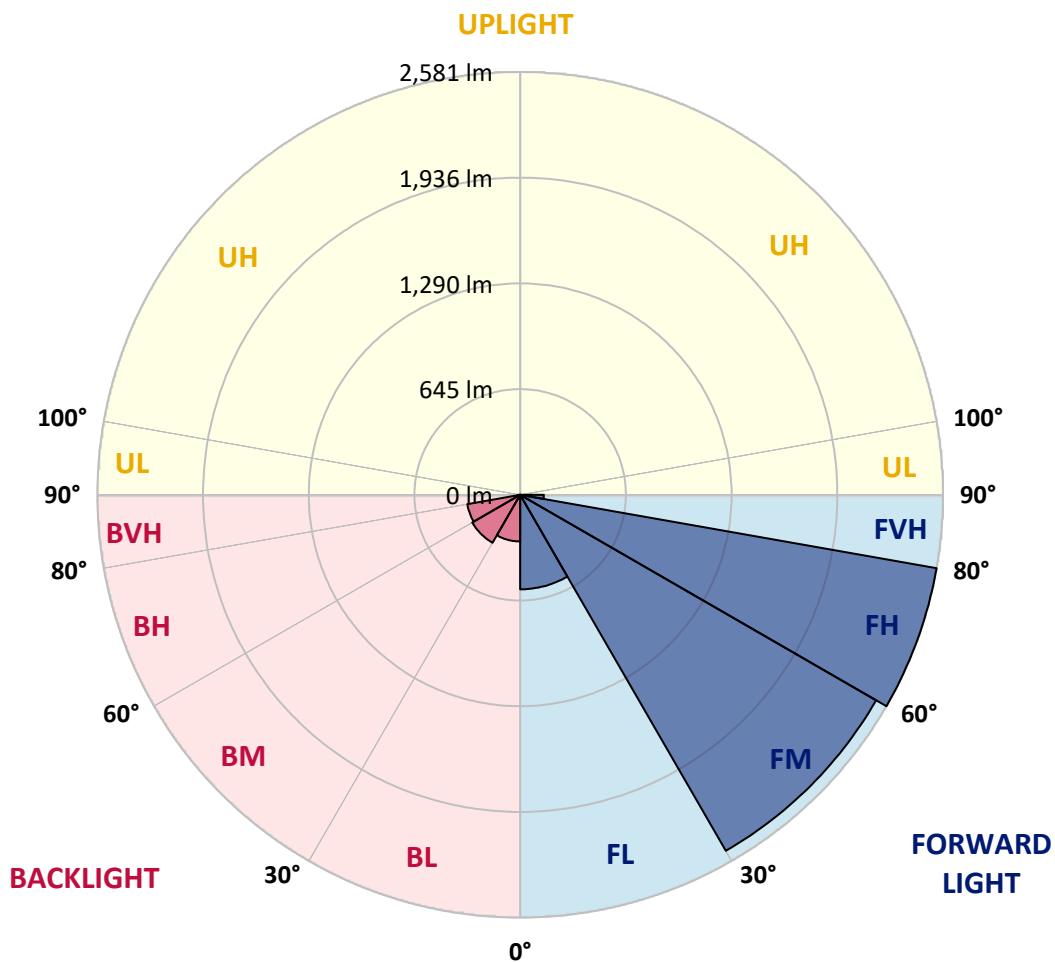
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	576.7	8.5			
FM	(30°-60°)	2508.9	37.0			
FH	(60°-80°)	2580.8	38.1			G2/5000
FVH	(80°-90°)	144.9	2.1			G2/225
BL	(0°-30°)	284.9	4.2	B1/500		
BM	(30°-60°)	337.7	5.0	B1/1000		
BH	(60°-80°)	327.8	4.8	B1/500		G1/500
BVH	(80°-90°)	16.3	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°	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4
2.5°	1775.5	1780.3	1780.3	1776.4	1774.2	1761.6	1754.3	1749.0	1739.8	1723.0	1707.7
5°	1712.0	1721.2	1725.1	1726.8	1738.1	1734.2	1734.6	1731.1	1723.4	1705.2	1680.3
7.5°	1595.6	1597.3	1604.3	1616.0	1643.4	1662.5	1678.2	1681.2	1679.5	1666.0	1631.2
10°	1480.8	1483.9	1492.2	1512.1	1538.2	1565.6	1599.5	1613.4	1623.8	1619.4	1575.5
12.5°	1385.7	1386.1	1395.2	1418.2	1447.4	1481.7	1527.8	1549.5	1574.3	1584.2	1535.1
15°	1293.9	1300.1	1308.7	1336.5	1372.6	1416.1	1469.1	1499.1	1531.7	1560.4	1503.8
17.5°	1224.4	1229.2	1234.4	1257.4	1299.1	1353.5	1419.1	1451.3	1494.3	1538.2	1471.7
20°	1186.1	1187.9	1184.0	1195.3	1230.5	1289.1	1365.2	1403.9	1455.1	1516.9	1438.7
22.5°	1178.3	1178.3	1164.0	1161.8	1177.4	1227.0	1309.6	1356.9	1419.5	1502.1	1409.1
25°	1214.9	1212.2	1185.3	1160.5	1154.8	1180.1	1256.6	1314.8	1389.2	1501.7	1386.9
27.5°	1283.9	1280.4	1247.0	1205.2	1169.2	1158.3	1215.7	1275.2	1365.2	1516.4	1375.7
30°	1370.0	1368.7	1334.7	1282.7	1223.0	1167.0	1199.6	1254.9	1349.2	1543.8	1375.3
32.5°	1464.4	1458.2	1437.3	1385.2	1307.8	1215.3	1209.1	1255.7	1344.8	1583.8	1385.2
35°	1564.7	1560.4	1555.2	1502.6	1415.7	1300.5	1251.4	1285.6	1366.0	1639.5	1413.4
37.5°	1692.5	1687.8	1696.5	1639.1	1543.8	1412.2	1322.6	1345.7	1409.5	1720.3	1466.1
40°	1919.8	1906.0	1881.6	1793.3	1693.4	1549.1	1425.6	1429.1	1483.9	1828.5	1550.4
42.5°	2293.1	2248.4	2128.0	1965.9	1851.1	1708.1	1559.9	1543.4	1586.5	1971.5	1672.9
45°	2667.4	2617.0	2413.6	2154.1	2014.6	1879.0	1725.9	1686.4	1714.3	2138.0	1830.7
47.5°	2909.1	2884.3	2654.8	2342.3	2185.8	2065.0	1915.9	1850.7	1870.7	2326.6	2025.4
50°	2980.0	2958.6	2778.2	2489.7	2347.5	2289.7	2151.1	2064.5	2068.0	2547.0	2258.9
52.5°	2926.9	2918.2	2798.7	2580.9	2496.2	2526.6	2476.6	2356.2	2327.5	2788.7	2511.9
55°	2856.1	2859.0	2813.0	2672.7	2647.4	2747.3	2902.5	2805.6	2683.9	3040.3	2775.2
57.5°	2633.1	2635.2	2756.0	2847.4	2936.0	3056.9	3234.2	3193.3	3051.7	3312.0	3070.3
60°	2120.2	2137.1	2406.2	2811.3	3265.9	3666.7	3710.1	3639.7	3442.8	3624.9	3454.1
62.5°	1514.7	1529.9	1841.6	2440.6	3227.2	4356.8	4589.0	4309.1	3973.6	4093.0	3993.9
65°	795.9	793.2	1034.4	1686.4	2718.3	4516.8	5973.7	5497.3	4867.6	4736.8	4515.5
67.5°	444.7	459.0	552.4	850.6	1771.6	3975.3	6858.3	6998.6	6110.7	5247.4	4492.9
69°	411.1	415.9	478.5	657.7	1154.8	3279.8	6782.2	7452.0	6634.9	5249.6	4203.4
70°	399.5	404.7	461.6	605.9	970.2	2687.4	6505.4	7398.9	6762.2	5133.2	3940.0
72.5°	358.1	365.1	420.3	544.6	817.5	1385.2	5240.1	6332.8	6125.4	4486.4	3055.1
75°	305.6	317.3	400.8	540.7	774.6	880.6	3494.5	4718.1	4559.0	3208.6	1733.4
77.5°	126.4	127.8	175.1	396.0	812.7	842.8	1878.1	2988.7	2645.7	1407.0	522.0
80°	88.3	86.5	87.4	115.6	655.9	848.4	963.6	1519.9	1181.4	371.2	244.3
82.5°	74.4	73.4	76.9	72.6	222.1	962.7	805.8	792.4	556.4	200.0	116.5
85°	49.1	47.8	63.0	66.1	105.6	764.6	866.6	622.9	414.6	106.9	49.5
87.5°	23.9	24.3	36.1	44.8	56.1	242.1	830.1	492.4	320.3	46.5	19.9
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°	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4
2.5°	1701.7	1688.6	1676.8	1662.1	1650.7	1641.2	1628.1	1627.7	1625.6	1628.6	1629.5
5°	1663.8	1642.0	1609.0	1572.1	1546.0	1511.7	1478.3	1466.9	1454.3	1453.0	1456.9
7.5°	1606.9	1573.0	1516.4	1460.0	1403.5	1345.7	1290.9	1263.0	1236.1	1227.8	1231.7
10°	1543.4	1500.4	1413.9	1321.8	1242.2	1156.1	1072.7	1018.8	969.7	948.8	954.0
12.5°	1493.9	1439.1	1317.4	1197.9	1078.8	955.3	845.4	738.9	658.5	622.4	624.6
15°	1451.3	1381.3	1227.0	1068.0	918.8	749.7	597.2	473.7	403.3	377.3	376.4
17.5°	1405.2	1320.4	1132.7	947.0	753.7	544.6	399.9	326.8	299.0	290.3	290.3
20°	1356.1	1257.8	1034.0	815.4	579.8	380.3	300.7	272.5	262.1	259.5	259.0
22.5°	1310.4	1196.5	934.9	675.0	419.4	288.6	256.0	245.1	243.4	245.6	245.6
25°	1274.4	1142.6	834.5	527.2	305.1	241.6	227.7	226.5	232.9	240.8	242.1
27.5°	1247.4	1094.5	735.4	385.1	239.9	210.3	205.6	211.2	226.5	242.1	245.1
30°	1228.8	1053.1	616.7	276.9	200.0	184.3	186.5	196.5	219.5	243.4	249.9
32.5°	1220.5	1019.7	497.3	212.6	170.8	162.1	167.8	180.9	204.7	228.6	236.4
35°	1228.3	995.3	386.9	176.5	149.6	143.0	149.6	163.0	178.6	190.4	195.2
37.5°	1256.6	986.6	291.2	156.5	135.6	129.1	134.3	143.4	150.4	154.8	156.9
40°	1316.1	995.7	228.2	146.1	127.8	120.4	121.7	126.0	130.8	134.3	134.7
42.5°	1410.9	1025.7	203.0	142.1	123.0	113.4	111.3	114.3	119.5	124.3	125.2
45°	1536.9	1075.7	200.4	143.4	120.8	107.8	103.4	106.5	113.4	121.2	122.5
47.5°	1699.9	1154.8	212.6	150.4	122.1	104.8	98.2	101.3	110.4	120.8	122.5
50°	1892.9	1264.4	235.2	160.8	128.2	104.8	96.1	98.7	108.2	120.0	121.7
52.5°	2120.2	1416.9	258.6	171.2	136.9	108.6	97.0	96.5	105.2	116.0	118.3
55°	2371.0	1606.4	281.2	180.3	141.7	113.9	99.1	93.9	100.9	109.6	111.3
57.5°	2666.1	1866.0	320.8	189.0	144.3	117.7	101.7	91.2	95.2	101.3	102.6
60°	3066.4	2247.1	397.7	203.9	149.0	119.5	102.1	88.7	88.3	92.6	93.0
62.5°	3588.4	2693.5	471.2	221.3	158.7	120.0	100.5	87.0	82.6	83.9	83.9
65°	3959.6	2857.8	449.9	236.0	167.4	119.5	98.7	85.6	78.3	76.1	76.1
67.5°	3748.4	2524.4	382.1	239.9	168.2	114.8	94.7	82.6	74.4	69.2	69.2
69°	3438.0	2212.7	350.8	232.9	161.2	109.0	90.4	79.6	71.7	65.7	65.7
70°	3185.1	1976.8	331.6	224.7	153.0	104.3	86.5	76.5	69.2	63.9	63.4
72.5°	2378.0	1319.1	283.4	193.8	125.6	88.3	75.6	68.2	62.2	58.7	58.7
75°	1254.9	661.1	232.1	158.3	97.0	70.4	62.2	57.4	53.9	53.5	53.0
77.5°	411.1	299.0	166.9	119.1	71.3	54.7	49.5	46.5	46.0	47.8	47.8
80°	222.1	178.6	107.3	80.4	49.5	40.8	38.3	37.8	39.1	41.7	41.7
82.5°	107.8	88.3	63.9	49.5	33.9	30.0	30.0	30.4	32.1	35.2	35.2
85°	46.5	41.7	36.9	27.8	20.9	18.7	21.3	23.4	24.8	26.9	27.8
87.5°	22.2	19.5	17.0	10.8	9.1	9.5	11.3	13.9	16.5	18.2	18.7
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)