

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: P199195

Luminaire Tested: **XNV2-AF-02-LED-U-SL3-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199195  
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: XNV2-AF-02-LED-U-SL3-8030-600  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES 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: 6475 lumens  
Efficiency: N/A  
Efficacy: 98.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G2

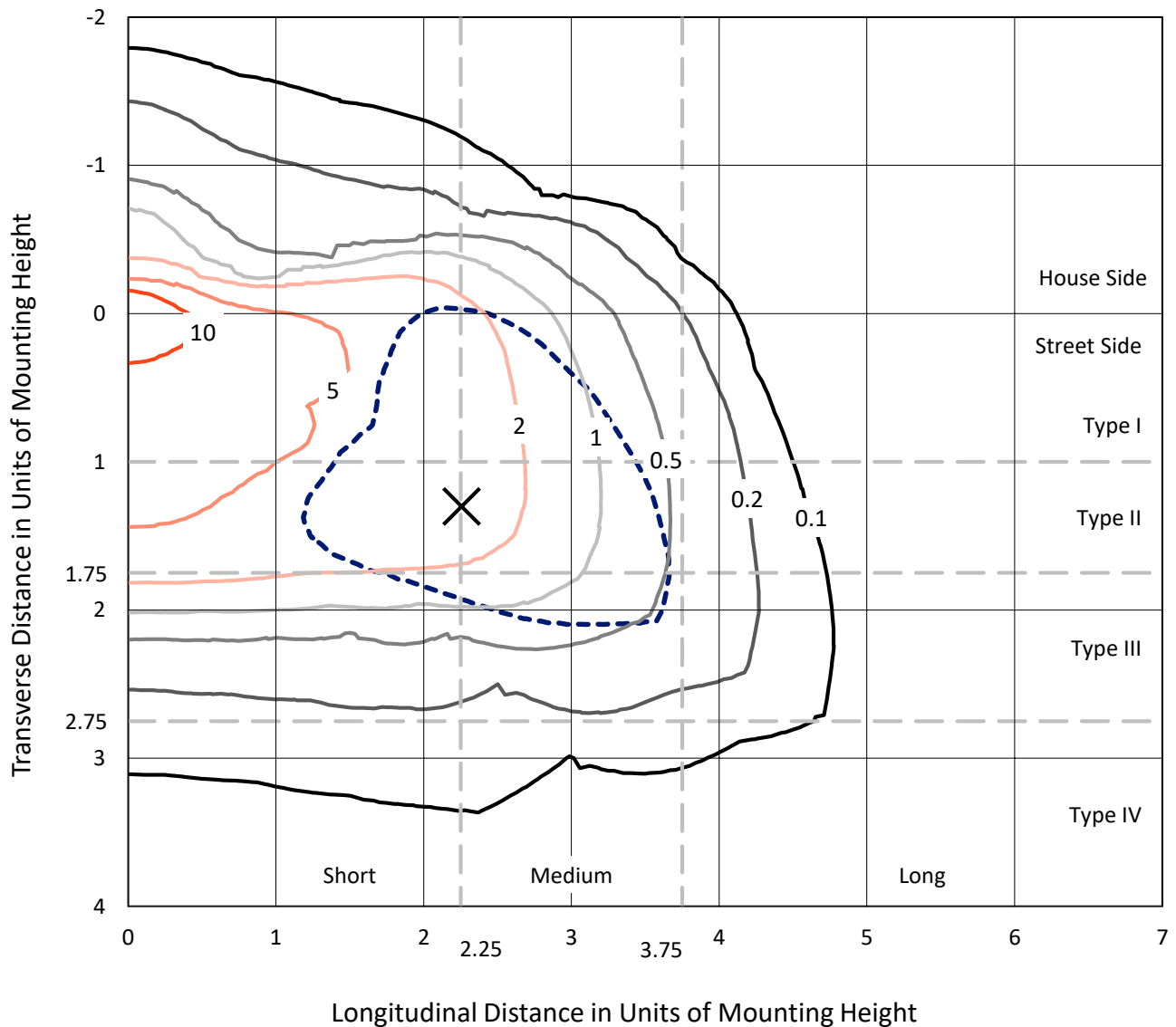
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

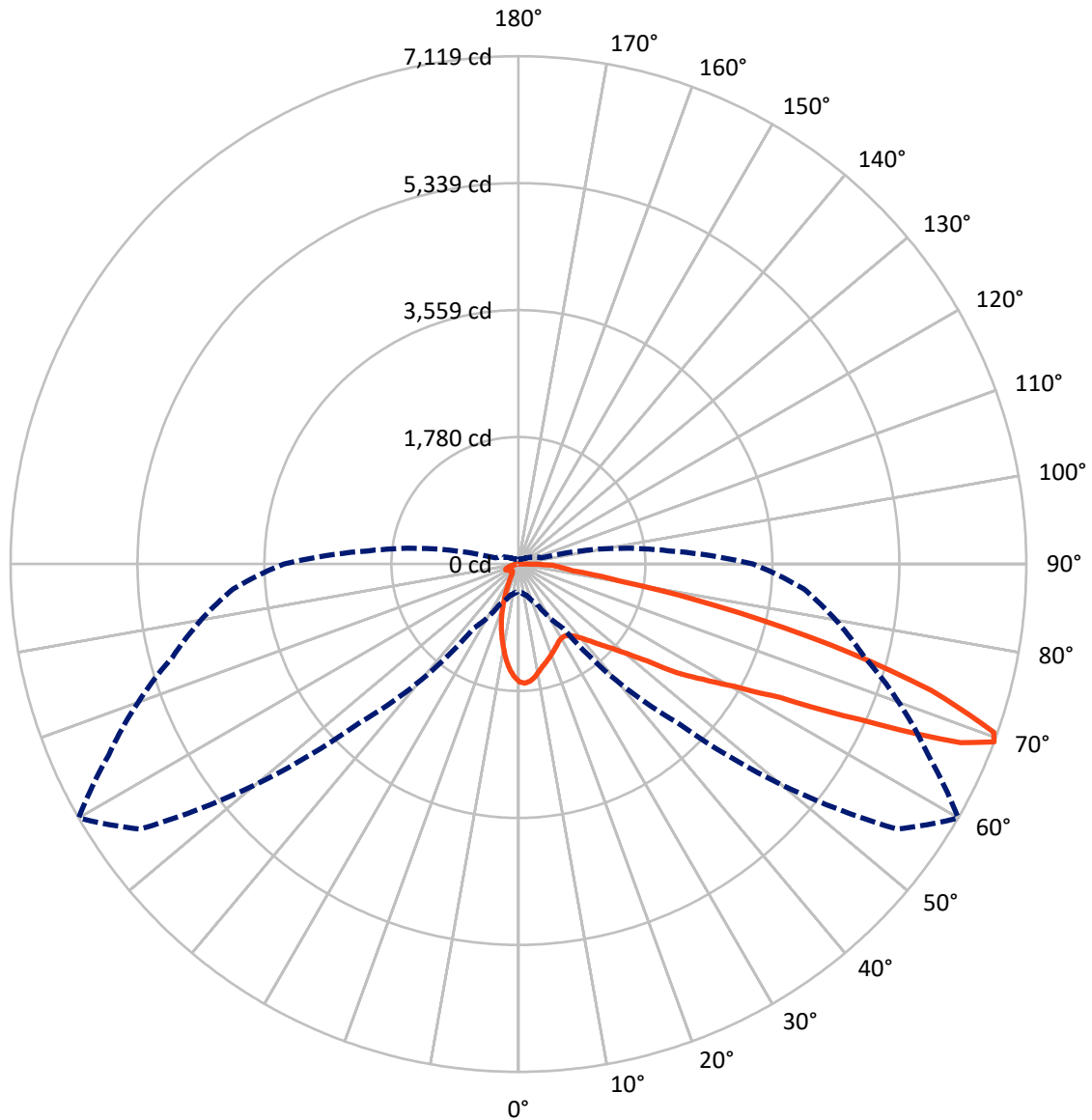
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.5 fc  
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P199195  
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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	923.6	0.0	923.6
	% Fixture	14.3	0.0	14.3
<b>Street Side</b>	Lumens	5551.5	0.0	5551.5
	% Fixture	85.7	0.0	85.7
<b>Total</b>	Lumens	6475.0	0.0	6475.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.2	2.2
10°-20°	300.1	4.6
20°-30°	382.8	5.9
30°-40°	526.8	8.1
40°-50°	853.3	13.2
50°-60°	1339.2	20.7
60°-70°	1785.4	27.6
70°-80°	993.1	15.3
80°-90°	154.0	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°	6475.0	100.0
0°-180°	6475.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P199195

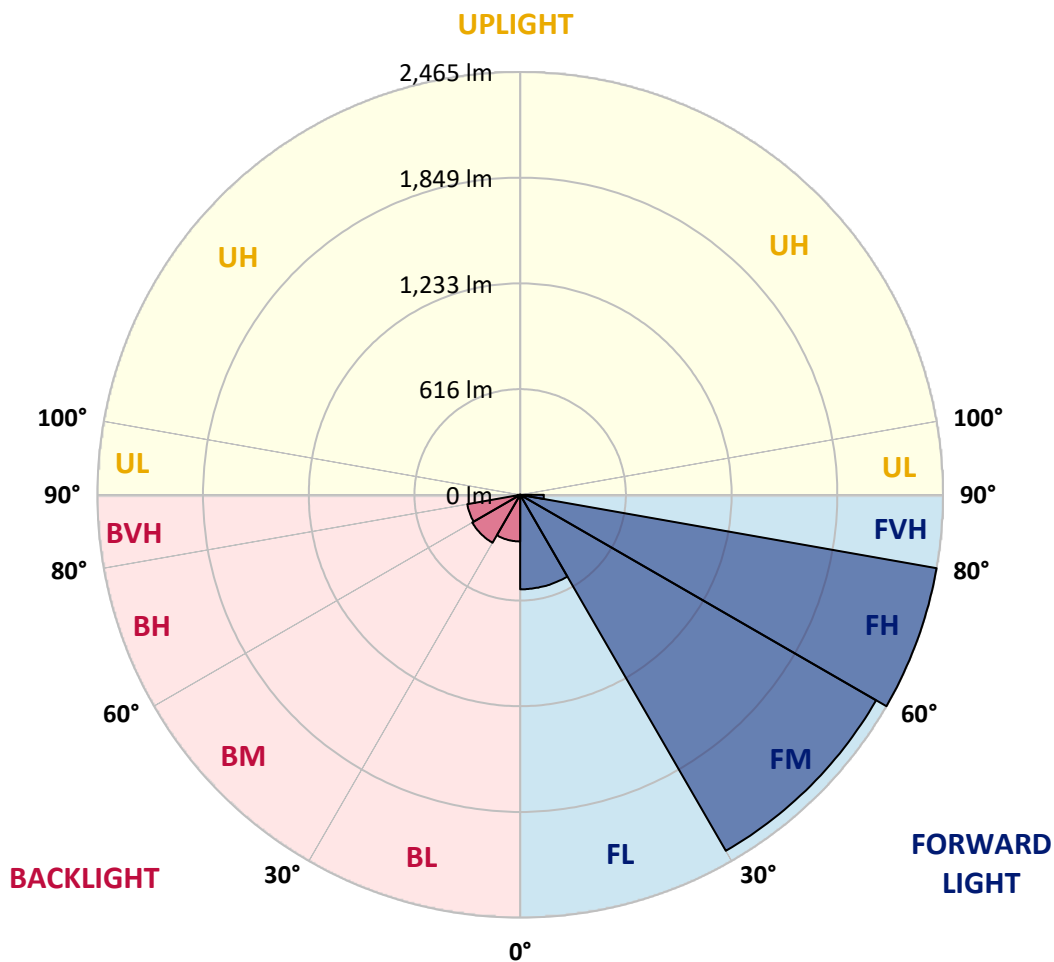
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	550.9	8.5			
FM (30°-60°)	2396.7	37.0			
FH (60°-80°)	2465.4	38.1			G2/5000
FVH (80°-90°)	138.4	2.1			G2/225
BL (0°-30°)	272.2	4.2	B1/500		
BM (30°-60°)	322.6	5.0	B1/1000		
BH (60°-80°)	313.1	4.8	B1/500		G1/500
BVH (80°-90°)	15.6	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





REPORT NUMBER: P199195

CATALOG NUMBER: XNV2-AF-02-LED-U-SL3-8030-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1
2.5°	1696.1	1700.7	1700.7	1697.0	1694.9	1682.8	1675.8	1670.8	1662.1	1645.9	1631.4
5°	1635.5	1644.2	1648.0	1649.6	1660.4	1656.7	1657.1	1653.8	1646.3	1628.9	1605.2
7.5°	1524.2	1525.9	1532.5	1543.7	1569.9	1588.2	1603.1	1606.0	1604.4	1591.5	1558.3
10°	1414.6	1417.5	1425.4	1444.5	1469.4	1495.6	1528.0	1541.3	1551.2	1547.1	1505.1
12.5°	1323.7	1324.1	1332.8	1354.8	1382.6	1415.4	1459.5	1480.2	1503.9	1513.4	1466.5
15°	1236.1	1241.9	1250.2	1276.8	1311.2	1352.8	1403.4	1432.1	1463.2	1490.6	1436.6
17.5°	1169.6	1174.2	1179.2	1201.2	1241.1	1293.0	1355.7	1386.4	1427.5	1469.4	1405.9
20°	1133.1	1134.8	1131.0	1141.8	1175.5	1231.5	1304.2	1341.1	1390.1	1449.1	1374.3
22.5°	1125.6	1125.6	1111.9	1109.9	1124.8	1172.1	1251.0	1296.3	1356.1	1435.0	1346.1
25°	1160.5	1158.0	1132.3	1108.6	1103.2	1127.3	1200.4	1256.0	1327.0	1434.5	1324.9
27.5°	1226.5	1223.2	1191.2	1151.4	1116.9	1106.5	1161.3	1218.2	1304.2	1448.7	1314.1
30°	1308.7	1307.5	1275.1	1225.3	1168.4	1114.8	1146.0	1198.7	1288.8	1474.8	1313.7
32.5°	1398.8	1393.0	1373.1	1323.3	1249.4	1160.9	1155.1	1199.5	1284.7	1513.0	1323.3
35°	1494.8	1490.6	1485.6	1435.4	1352.3	1242.3	1195.4	1228.2	1305.0	1566.2	1350.3
37.5°	1616.8	1612.3	1620.6	1565.8	1474.8	1349.0	1263.5	1285.5	1346.5	1643.4	1400.5
40°	1834.0	1820.7	1797.4	1713.2	1617.7	1479.8	1361.9	1365.2	1417.5	1746.8	1481.1
42.5°	2190.6	2147.9	2032.9	1878.0	1768.4	1631.8	1490.2	1474.4	1515.5	1883.4	1598.1
45°	2548.1	2500.0	2305.7	2057.8	1924.5	1794.9	1648.8	1611.0	1637.6	2042.4	1748.9
47.5°	2779.0	2755.3	2536.1	2237.6	2088.1	1972.7	1830.2	1768.0	1787.1	2222.6	1934.9
50°	2846.7	2826.3	2654.0	2378.3	2242.5	2187.3	2054.9	1972.2	1975.6	2433.1	2157.8
52.5°	2796.0	2787.7	2673.5	2465.5	2384.5	2413.6	2365.9	2250.8	2223.4	2664.0	2399.5
55°	2728.3	2731.2	2687.2	2553.1	2529.0	2624.5	2772.8	2680.2	2563.9	2904.4	2651.1
57.5°	2515.3	2517.4	2632.8	2720.0	2804.7	2920.2	3089.6	3050.5	2915.2	3163.9	2933.0
60°	2025.4	2041.6	2298.6	2685.6	3119.9	3502.7	3544.2	3477.0	3288.9	3462.8	3299.7
62.5°	1447.0	1461.5	1759.2	2331.4	3082.9	4162.1	4383.8	4116.4	3795.8	3910.0	3815.4
65°	760.2	757.8	988.2	1611.0	2596.7	4314.9	5706.6	5251.6	4649.9	4524.9	4313.6
67.5°	424.8	438.5	527.7	812.6	1692.4	3797.5	6551.6	6685.7	5837.4	5012.8	4292.0
69°	392.8	397.4	457.1	628.2	1103.2	3133.2	6478.9	7118.8	6338.2	5014.9	4015.5
70°	381.6	386.6	441.0	578.8	926.7	2567.2	6214.4	7068.1	6459.8	4903.6	3763.9
72.5°	342.1	348.8	401.5	520.3	781.0	1323.3	5005.8	6049.6	5851.5	4285.8	2918.5
75°	291.9	303.1	382.8	516.5	739.9	841.2	3338.3	4507.1	4355.1	3065.1	1655.9
77.5°	120.8	122.1	167.3	378.3	776.4	805.1	1794.1	2855.0	2527.4	1344.0	498.7
80°	84.3	82.6	83.5	110.4	626.6	810.5	920.5	1452.0	1128.5	354.6	233.3
82.5°	71.0	70.2	73.5	69.3	212.2	919.7	769.8	756.9	531.5	191.0	111.3
85°	46.9	45.7	60.2	63.1	100.9	730.4	827.9	595.0	396.1	102.1	47.3
87.5°	22.8	23.3	34.5	42.8	53.6	231.3	793.0	470.4	306.0	44.4	19.1
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: P199195

CATALOG NUMBER: XNV2-AF-02-LED-U-SL3-8030-600

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1
2.5°	1625.5	1613.1	1601.9	1587.8	1577.0	1567.8	1555.4	1555.0	1552.9	1555.8	1556.6
5°	1589.4	1568.7	1537.1	1501.8	1476.9	1444.1	1412.1	1401.3	1389.3	1388.0	1391.8
7.5°	1535.0	1502.6	1448.7	1394.7	1340.7	1285.5	1233.2	1206.6	1180.9	1173.0	1176.7
10°	1474.4	1433.3	1350.7	1262.7	1186.7	1104.5	1024.7	973.2	926.3	906.4	911.4
12.5°	1427.1	1374.8	1258.5	1144.3	1030.5	912.6	807.6	705.9	629.0	594.6	596.7
15°	1386.4	1319.5	1172.1	1020.2	877.8	716.2	570.5	452.6	385.3	360.4	359.6
17.5°	1342.4	1261.4	1082.0	904.7	720.0	520.3	382.0	312.2	285.7	277.4	277.4
20°	1295.5	1201.6	987.8	778.9	553.9	363.3	287.3	260.3	250.4	247.9	247.5
22.5°	1251.9	1143.1	893.1	644.8	400.7	275.7	244.6	234.2	232.5	234.6	234.6
25°	1217.4	1091.6	797.2	503.6	291.5	230.9	217.6	216.3	222.6	230.0	231.3
27.5°	1191.6	1045.5	702.5	367.9	229.2	201.0	196.4	201.8	216.3	231.3	234.2
30°	1173.8	1006.1	589.2	264.5	191.0	176.0	178.1	187.7	209.7	232.5	238.7
32.5°	1165.9	974.1	475.0	203.0	163.2	154.9	160.3	172.7	195.6	218.4	225.9
35°	1173.4	950.8	369.5	168.6	142.8	136.6	142.8	155.7	170.7	181.9	186.4
37.5°	1200.4	942.5	278.2	149.5	129.5	123.3	128.3	137.0	143.7	147.8	149.9
40°	1257.3	951.2	218.0	139.5	122.1	115.0	116.3	120.4	125.0	128.3	128.7
42.5°	1347.8	979.9	193.9	135.8	117.5	108.4	106.3	109.2	114.2	118.7	119.6
45°	1468.2	1027.6	191.4	137.0	115.4	103.0	98.8	101.7	108.4	115.8	117.1
47.5°	1623.9	1103.2	203.0	143.7	116.7	100.1	93.8	96.7	105.5	115.4	117.1
50°	1808.2	1207.8	224.6	153.6	122.5	100.1	91.8	94.3	103.4	114.6	116.3
52.5°	2025.4	1353.6	247.0	163.6	130.8	103.8	92.6	92.2	100.5	110.9	112.9
55°	2265.0	1534.6	268.6	172.3	135.4	108.8	94.7	89.7	96.3	104.6	106.3
57.5°	2546.9	1782.5	306.4	180.6	137.8	112.5	97.2	87.2	90.9	96.7	98.0
60°	2929.3	2146.6	379.9	194.7	142.4	114.2	97.6	84.7	84.3	88.4	88.9
62.5°	3428.0	2573.1	450.1	211.3	151.6	114.6	95.9	83.0	78.9	80.1	80.1
65°	3782.6	2730.0	429.7	225.5	159.9	114.2	94.3	81.8	74.7	72.7	72.7
67.5°	3580.8	2411.5	365.0	229.2	160.7	109.6	90.5	78.9	71.0	66.0	66.0
69°	3284.3	2113.8	335.1	222.6	154.0	104.2	86.4	76.0	68.5	62.7	62.7
70°	3042.7	1888.4	316.8	214.7	146.2	99.7	82.6	73.1	66.0	61.0	60.6
72.5°	2271.6	1260.2	270.7	185.2	120.0	84.3	72.2	65.2	59.4	56.1	56.1
75°	1198.7	631.5	221.7	151.1	92.6	67.3	59.4	54.8	51.5	51.1	50.7
77.5°	392.8	285.7	159.4	113.8	68.1	52.3	47.3	44.4	44.0	45.7	45.7
80°	212.2	170.7	102.6	76.8	47.3	39.0	36.5	36.1	37.4	39.9	39.9
82.5°	103.0	84.3	61.0	47.3	32.4	28.6	28.6	29.1	30.7	33.6	33.6
85°	44.4	39.9	35.3	26.6	19.9	17.9	20.3	22.4	23.7	25.7	26.6
87.5°	21.2	18.7	16.2	10.4	8.7	9.1	10.8	13.3	15.8	17.4	17.9
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)