

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: P198541

Luminaire Tested: **XNV2-AF-02-LED-U-SL2-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198541
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24257)
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-SL2-7030-800
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8455 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 85
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

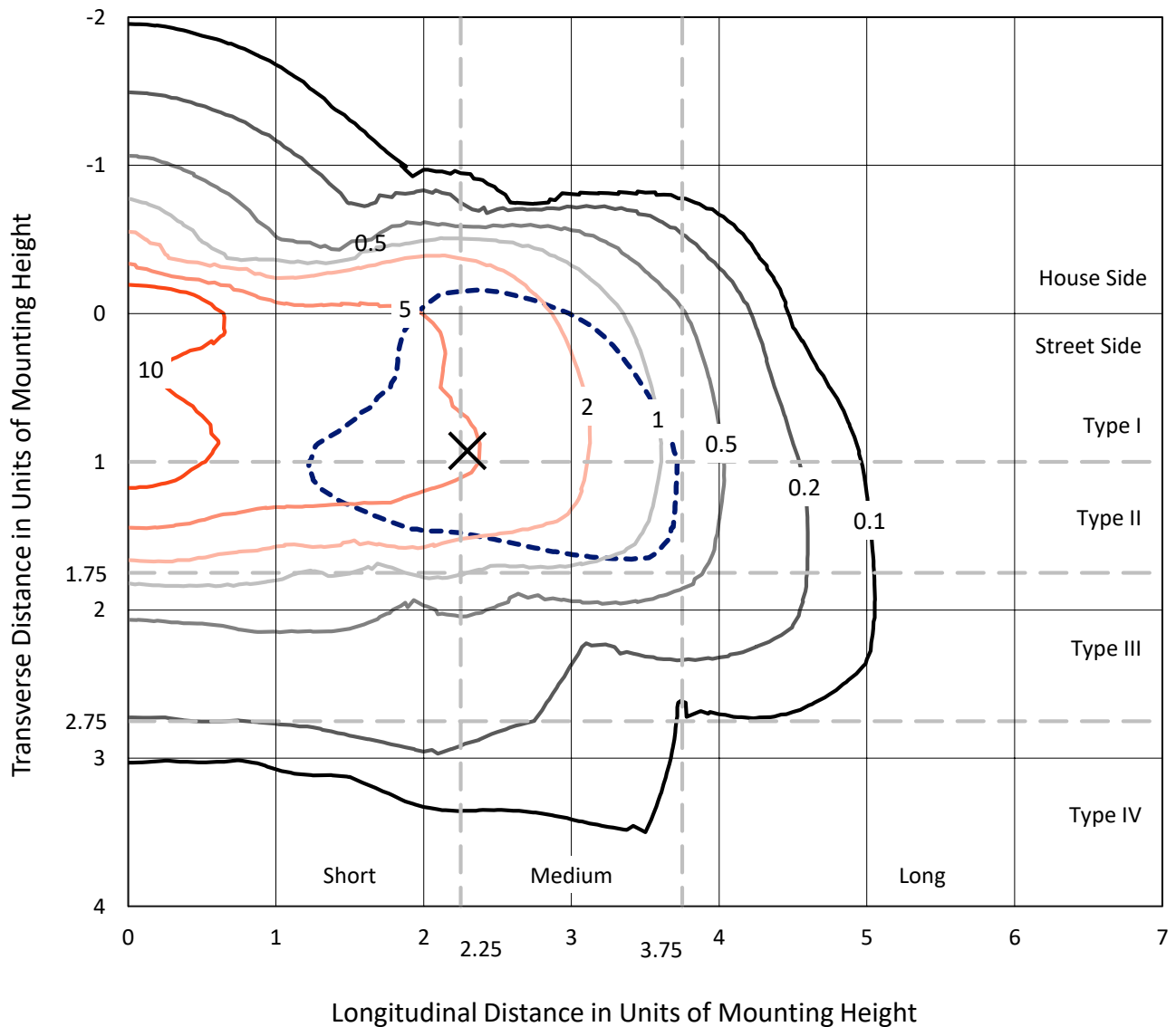


REPORT NUMBER: P198541

CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-7030-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

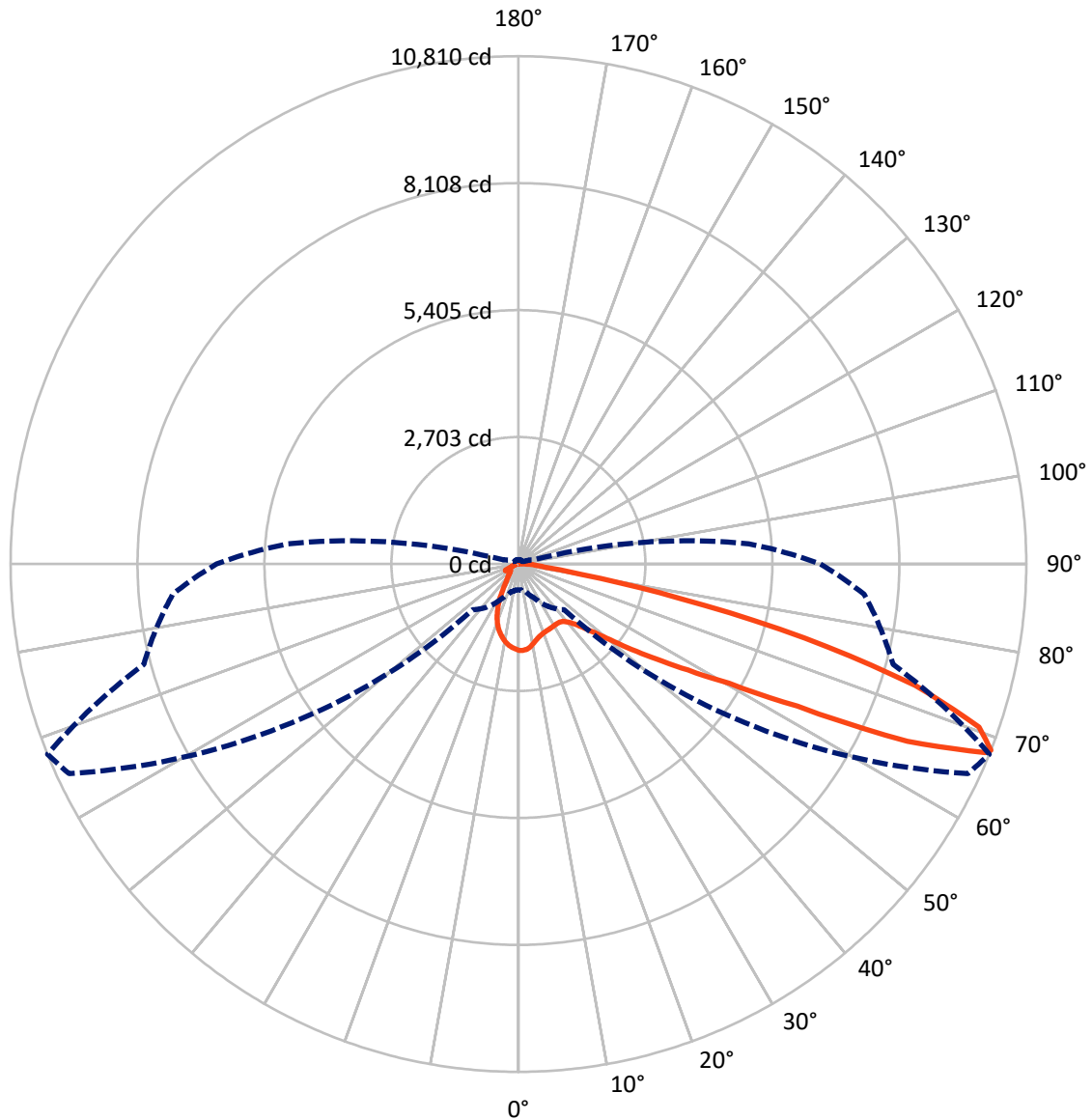


Based on 10 foot mounting height. Maximum calculated value = 18.4 fc
 Type II - Medium - Semi-Cutoff

REPORT NUMBER: P198541

CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-7030-800

Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical



REPORT NUMBER: P198541

CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-7030-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1383.3	0.0	1383.3
	% Fixture	16.4	0.0	16.4
Street Side	Lumens	7071.7	0.0	7071.7
	% Fixture	83.6	0.0	83.6
Total	Lumens	8455.0	0.0	8455.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.6	1.9
10°-20°	365.6	4.3
20°-30°	494.5	5.8
30°-40°	697.2	8.2
40°-50°	1146.4	13.6
50°-60°	1777.1	21.0
60°-70°	2304.1	27.3
70°-80°	1322.2	15.6
80°-90°	190.2	2.3
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°	8455.0	100.0
0°-180°	8455.0	100.0



REPORT NUMBER: P198541

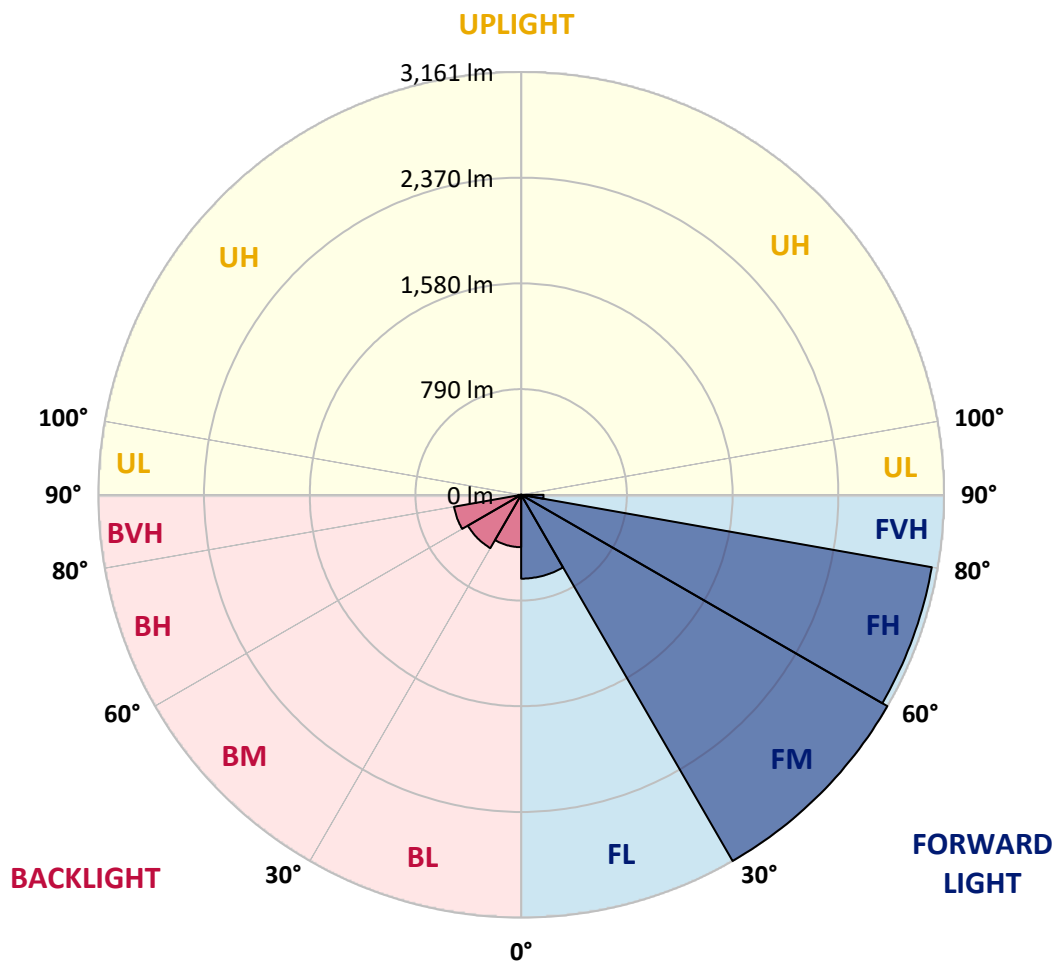
CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-7030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	626.7	7.4			
FM (30°-60°)	3160.6	37.4			
FH (60°-80°)	3116.9	36.9			G2/5000
FVH (80°-90°)	167.6	2.0			G2/225
BL (0°-30°)	391.1	4.6	B1/500		
BM (30°-60°)	460.1	5.4	B1/1000		
BH (60°-80°)	509.4	6.0	B2/1000		G2/1000
BVH (80°-90°)	22.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





REPORT NUMBER: P198541

CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-7030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7
2.5°	1790.6	1804.9	1804.9	1815.4	1824.8	1832.6	1839.2	1839.2	1839.2	1834.8	1830.9
5°	1602.2	1621.6	1624.3	1650.8	1685.6	1728.2	1775.7	1817.6	1825.9	1841.4	1847.5
7.5°	1471.3	1477.4	1487.9	1506.1	1541.5	1594.0	1668.5	1762.4	1785.1	1833.7	1859.1
10°	1378.6	1383.5	1392.4	1410.6	1442.6	1490.1	1563.6	1685.6	1723.2	1809.4	1859.6
12.5°	1310.6	1314.5	1322.8	1339.3	1371.9	1414.5	1489.6	1616.6	1663.0	1785.1	1867.3
15°	1257.6	1264.2	1270.9	1286.9	1320.0	1360.9	1437.1	1566.3	1616.6	1765.7	1881.7
17.5°	1236.6	1239.9	1241.0	1249.3	1279.1	1320.6	1396.8	1531.0	1582.9	1750.3	1892.8
20°	1249.9	1250.4	1239.4	1233.9	1251.0	1289.1	1363.1	1504.5	1557.5	1736.5	1897.2
22.5°	1307.9	1307.9	1279.1	1254.8	1243.2	1267.0	1340.4	1486.3	1543.7	1726.0	1897.2
25°	1418.3	1413.4	1368.6	1320.6	1269.2	1259.3	1326.1	1474.7	1533.2	1720.4	1890.0
27.5°	1563.6	1559.2	1502.3	1431.0	1338.2	1275.8	1321.1	1465.3	1522.7	1712.1	1874.5
30°	1740.3	1736.5	1671.8	1578.5	1441.5	1328.3	1332.7	1458.6	1514.4	1698.3	1848.6
32.5°	1916.5	1914.3	1862.9	1767.4	1584.0	1417.2	1363.1	1457.5	1510.0	1681.8	1817.1
35°	2093.8	2093.8	2062.3	1981.7	1775.7	1550.9	1426.6	1478.0	1518.3	1672.9	1790.0
37.5°	2355.6	2345.1	2286.5	2203.2	2017.0	1724.3	1529.3	1521.1	1550.3	1687.8	1781.2
40°	2761.0	2730.6	2584.2	2444.0	2280.5	1946.3	1679.6	1604.5	1622.1	1738.7	1802.2
42.5°	3185.2	3137.1	2943.2	2719.0	2552.8	2220.3	1876.7	1739.8	1739.2	1837.0	1869.0
45°	3549.1	3524.3	3314.4	3030.0	2863.7	2528.5	2125.8	1940.8	1920.9	1989.4	1997.7
47.5°	3760.7	3744.1	3617.6	3359.1	3232.6	2892.4	2441.7	2219.7	2182.2	2223.0	2210.3
50°	3702.1	3718.1	3681.7	3549.7	3629.2	3403.9	2844.4	2601.9	2530.7	2571.5	2540.6
52.5°	3393.9	3437.0	3469.6	3495.0	3857.3	4088.2	3350.3	3079.1	3020.0	3012.8	2983.0
55°	2838.9	2907.3	3010.1	3196.7	3796.0	4637.7	4234.0	3656.3	3570.1	3524.8	3536.4
57.5°	1932.0	2035.8	2257.3	2612.4	3477.3	4871.9	5540.7	4401.9	4256.1	4094.8	4132.4
60°	1064.3	1151.0	1414.5	1772.4	2749.9	4837.1	6698.9	5613.6	5154.7	4727.2	4804.5
62.5°	688.7	707.5	903.6	1210.7	1687.8	4270.4	7342.4	7638.9	6666.3	5561.2	5670.0
65°	553.4	566.7	662.8	976.5	1175.9	2747.2	7371.1	9739.9	9098.7	6694.5	6697.8
67.5°	540.7	546.8	602.6	821.3	1103.0	1495.6	6371.4	10568.4	10717.0	8032.2	7385.4
68°	548.4	555.6	612.0	795.9	1102.4	1378.6	5888.7	10555.7	10810.3	8255.9	7385.4
70°	483.8	492.7	624.1	823.5	1055.5	1185.2	4032.4	9995.1	10404.9	8770.1	7007.7
72.5°	253.0	245.8	308.7	650.1	1188.0	1235.0	2130.2	8350.3	8828.6	8122.2	6054.4
75°	197.2	179.5	172.9	256.8	1045.0	1280.8	1237.2	5935.1	6296.3	5855.0	4046.7
77.5°	185.6	164.0	151.3	151.9	460.1	1332.7	1000.8	3492.8	3492.8	2793.0	1291.3
80°	149.1	129.2	121.0	138.1	222.0	1228.3	1044.4	1591.7	1357.6	721.9	355.7
82.5°	98.3	87.8	88.4	112.1	168.5	820.2	1209.6	785.9	590.4	319.8	209.3
85°	62.4	53.6	59.6	78.4	125.9	365.6	1197.4	546.2	391.0	179.5	104.4
87.5°	31.5	24.3	29.8	40.9	76.8	104.9	985.9	487.7	290.0	74.6	56.9
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: P198541

CATALOG NUMBER: XNV2-AF-02-LED-U-SL2-7030-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7	1839.7
2.5°	1830.9	1818.7	1812.7	1802.7	1790.6	1778.4	1770.1	1766.3	1764.1	1765.2	1764.6
5°	1844.2	1828.1	1802.2	1765.2	1727.1	1686.7	1655.8	1632.1	1617.2	1612.7	1611.6
7.5°	1854.1	1830.9	1782.3	1714.9	1649.7	1579.0	1518.8	1470.8	1438.2	1423.3	1422.7
10°	1852.4	1822.6	1745.8	1646.4	1550.9	1447.0	1352.6	1272.0	1213.4	1185.2	1184.1
12.5°	1854.1	1813.2	1701.1	1566.3	1429.4	1280.8	1140.5	1015.1	927.9	886.5	884.8
15°	1860.7	1803.3	1655.3	1476.9	1287.4	1077.5	877.1	719.7	640.1	613.1	613.1
17.5°	1860.2	1786.7	1602.2	1373.0	1119.0	837.8	598.7	501.5	493.8	518.6	522.5
20°	1849.1	1760.2	1533.8	1249.9	921.2	579.9	405.9	392.1	454.0	522.5	530.2
22.5°	1832.0	1726.0	1454.8	1106.8	690.9	377.8	313.2	334.1	418.1	503.2	515.3
25°	1808.3	1684.5	1364.2	940.6	459.5	271.7	261.2	287.2	346.3	403.2	412.0
27.5°	1773.5	1632.1	1265.3	760.5	293.3	223.7	227.6	245.8	271.2	295.5	300.5
30°	1729.8	1570.8	1157.6	561.1	222.6	199.9	206.6	217.6	228.7	244.1	247.4
32.5°	1685.6	1508.3	1045.5	385.5	194.4	187.2	193.9	199.9	209.3	219.8	222.0
35°	1645.9	1450.4	930.1	269.0	182.3	178.9	182.3	186.1	195.5	206.0	207.1
37.5°	1617.2	1402.9	809.7	212.6	175.1	171.8	173.4	175.1	186.1	201.6	203.2
40°	1613.3	1371.4	687.6	191.1	169.6	165.1	164.0	165.1	179.5	197.2	198.8
42.5°	1650.8	1373.0	568.3	182.3	165.1	160.2	155.8	158.0	170.7	184.5	185.6
45°	1739.8	1411.7	465.0	178.4	161.3	157.4	150.8	151.9	158.0	165.1	166.2
47.5°	1896.6	1496.2	386.1	176.2	158.0	154.6	146.4	143.0	143.6	147.5	147.5
50°	2147.4	1637.6	338.0	174.0	155.2	149.1	139.7	133.1	131.4	133.7	134.2
52.5°	2521.3	1880.1	314.8	169.6	150.2	141.9	131.4	124.8	122.1	124.3	124.3
55°	3026.6	2267.2	303.8	163.5	144.2	133.1	123.7	118.2	116.0	117.6	117.6
57.5°	3602.7	2770.4	322.5	155.2	136.4	123.7	117.1	113.2	111.6	113.2	113.8
60°	4287.0	3428.7	451.8	144.7	128.1	115.4	111.6	109.4	108.3	109.9	109.9
62.5°	5196.7	4304.7	699.2	136.4	119.3	107.7	106.6	105.5	104.4	106.0	106.0
65°	6178.7	5101.7	719.7	131.4	111.6	101.1	101.6	101.6	100.5	102.2	102.2
67.5°	6491.3	5032.6	402.1	125.4	102.2	94.4	96.7	96.7	96.1	97.8	97.2
68°	6425.0	4923.3	350.2	123.7	100.5	92.8	95.0	95.5	95.0	96.7	96.1
70°	5931.2	4322.3	230.3	114.3	93.3	87.3	90.6	91.1	90.6	92.8	92.2
72.5°	4896.2	3242.0	170.1	100.0	84.5	80.1	83.4	84.0	84.5	86.7	86.2
75°	3109.5	1790.6	134.2	85.1	75.7	71.8	75.1	76.8	77.9	81.2	79.5
77.5°	851.7	543.5	108.8	72.4	65.2	63.5	65.7	67.9	69.0	72.9	70.1
80°	298.2	240.3	90.6	61.3	54.1	53.6	55.8	58.0	59.1	62.4	59.1
82.5°	181.2	156.9	72.4	48.1	42.5	42.0	44.7	46.9	48.1	48.1	45.8
85°	94.4	82.8	53.0	33.7	29.3	27.6	32.6	35.3	35.9	35.3	33.7
87.5°	53.0	46.9	28.2	16.0	13.3	13.8	17.1	21.0	22.6	22.1	21.0
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)