

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: P199209

Luminaire Tested: **XNV2-AF-02-LED-U-SL4-8030-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199209  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24285)  
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-SL4-8030-1200-HSS  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8793 lumens  
Efficiency: N/A  
Efficacy: 68.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - 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

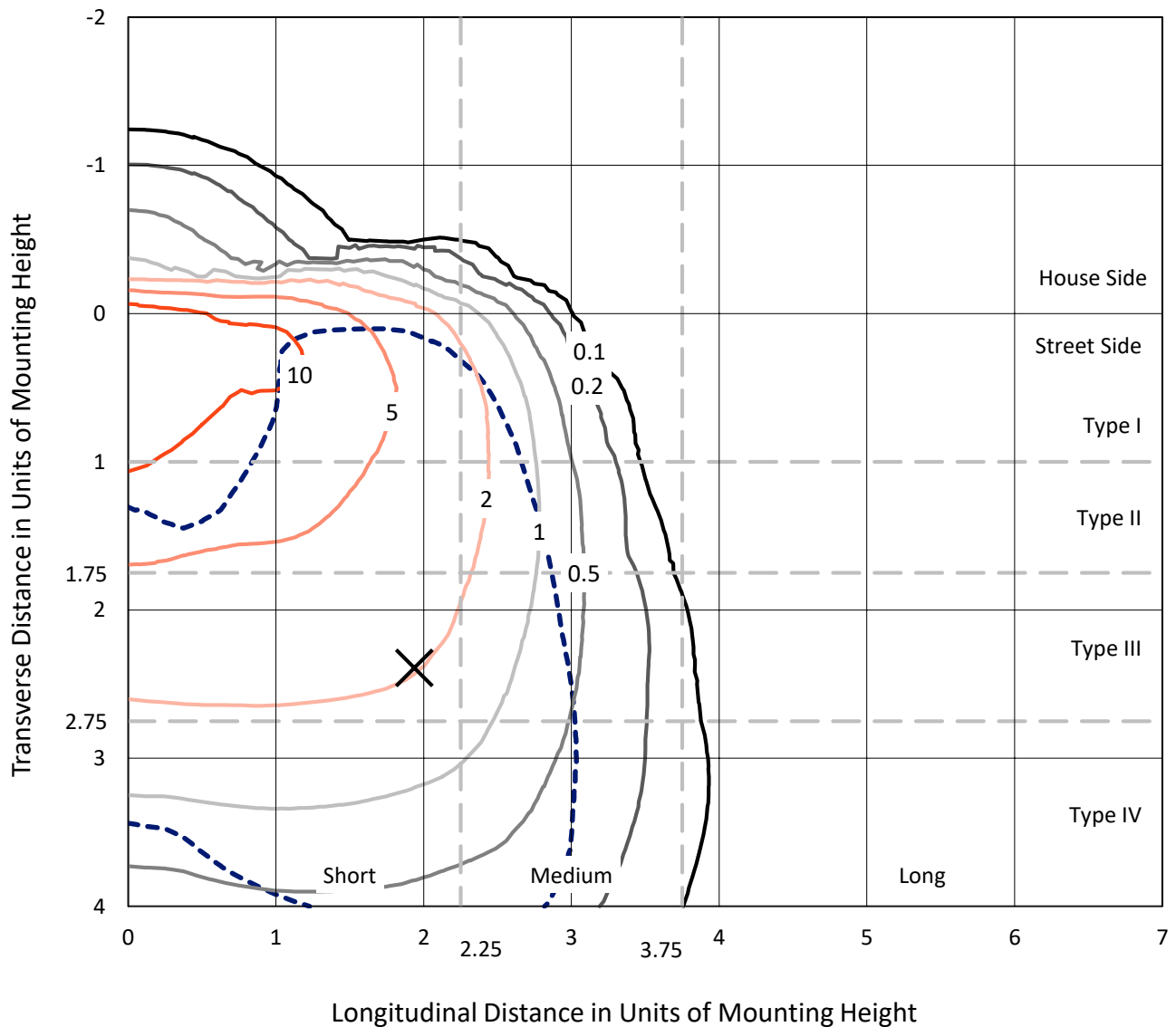


REPORT NUMBER: P199209

CATALOG NUMBER: XNV2-AF-02-LED-U-SL4-8030-1200-HSS

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

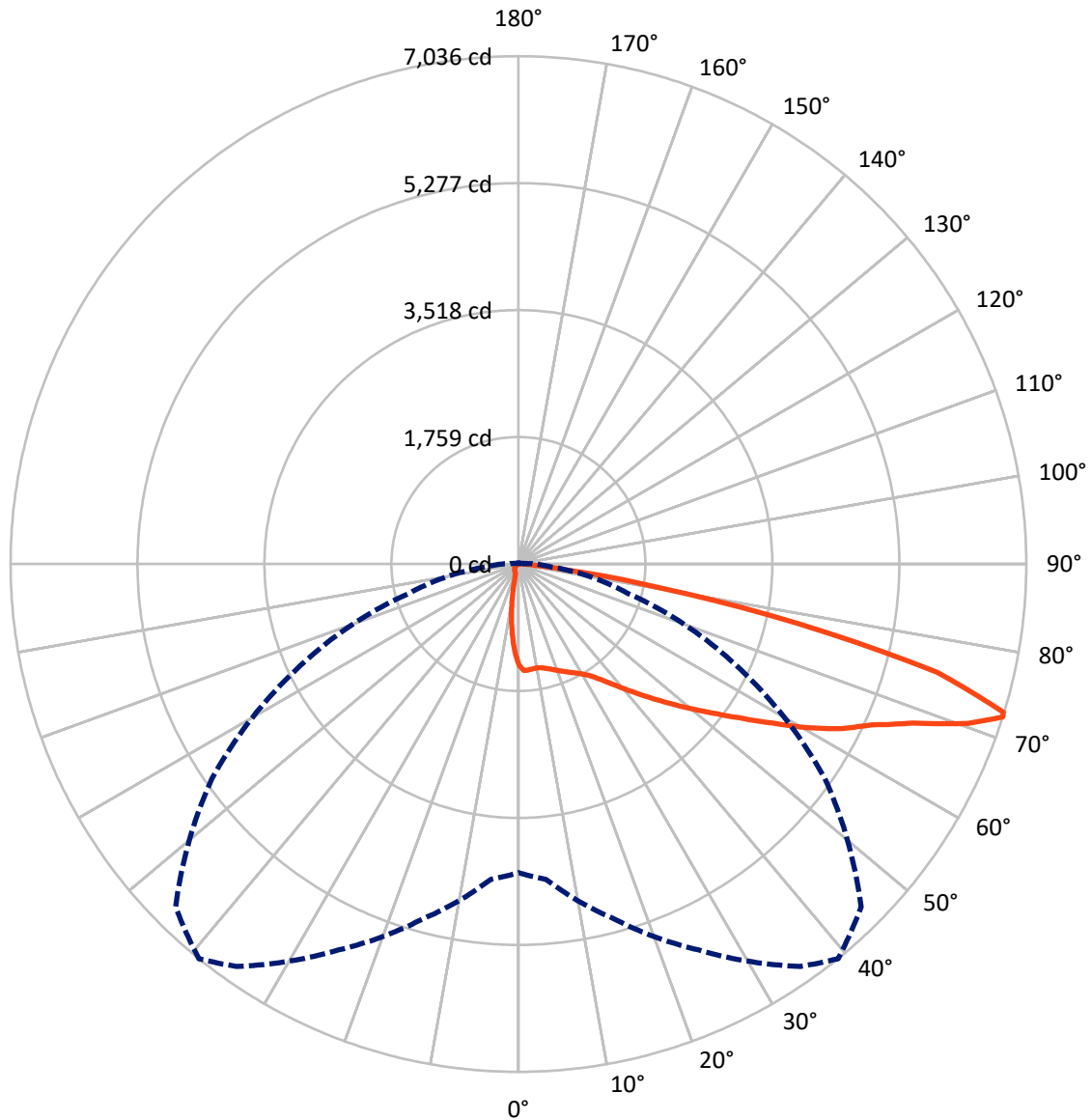


Based on 10 foot mounting height. Maximum calculated value = 14.8 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P199209

CATALOG NUMBER: XNV2-AF-02-LED-U-SL4-8030-1200-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P199209

CATALOG NUMBER: XNV2-AF-02-LED-U-SL4-8030-1200-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	576.3	0.0	576.3
	% Fixture	6.6	0.0	6.6
<b>Street Side</b>	Lumens	8216.7	0.0	8216.7
	% Fixture	93.4	0.0	93.4
<b>Total</b>	Lumens	8793.0	0.0	8793.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.5	1.3
10°-20°	277.1	3.2
20°-30°	460.3	5.2
30°-40°	733.6	8.3
40°-50°	1210.9	13.8
50°-60°	1828.6	20.8
60°-70°	2382.1	27.1
70°-80°	1609.6	18.3
80°-90°	176.3	2.0
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°	8793.0	100.0
0°-180°	8793.0	100.0



REPORT NUMBER: P199209

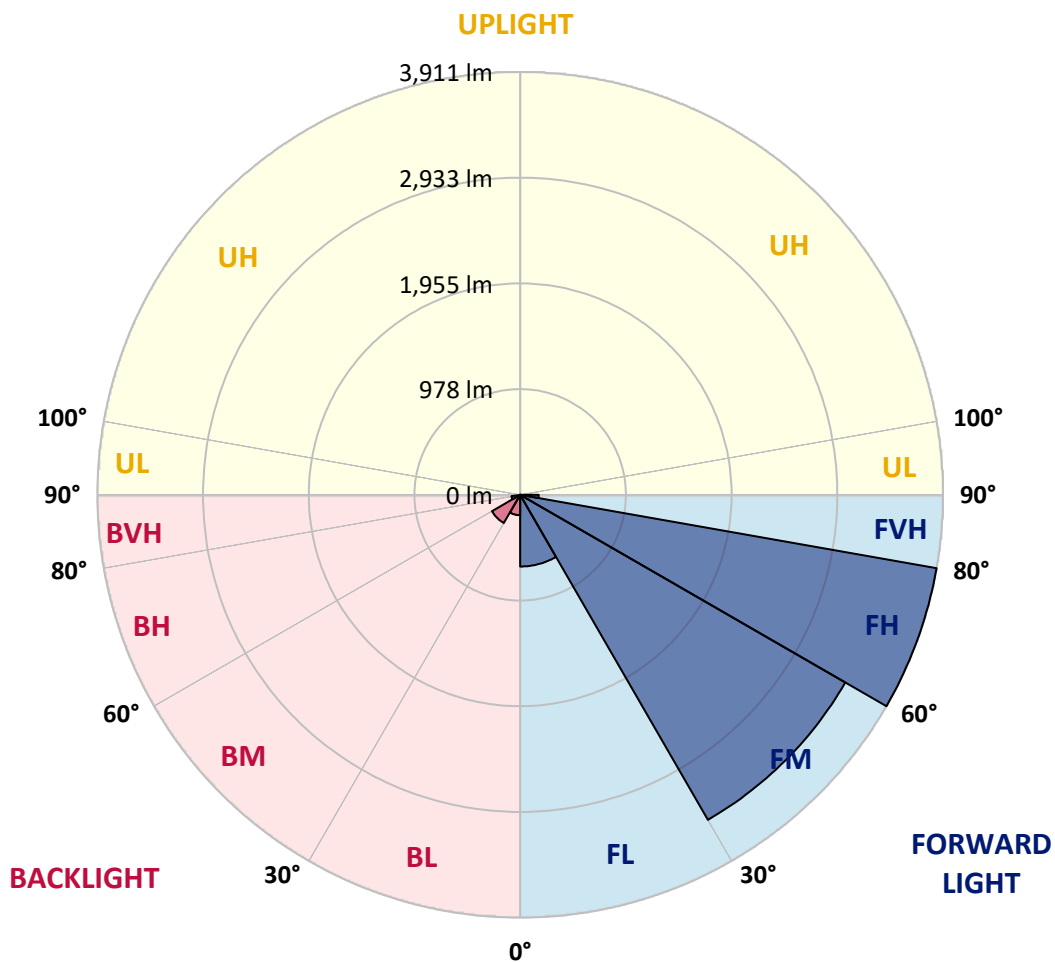
CATALOG NUMBER: XNV2-AF-02-LED-U-SL4-8030-1200-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	663.2	7.5			
FM (30°-60°)	3471.6	39.5			
FH (60°-80°)	3910.7	44.5			G2/5000
FVH (80°-90°)	171.2	1.9			G2/225
BL (0°-30°)	188.7	2.1	B1/500		
BM (30°-60°)	301.5	3.4	B1/1000		
BH (60°-80°)	81.0	0.9	B0/110		G0/110
BVH (80°-90°)	5.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





REPORT NUMBER: P199209

CATALOG NUMBER: XNV2-AF-02-LED-U-SL4-8030-1200-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4
2.5°	1498.6	1501.4	1497.9	1491.7	1482.7	1477.2	1469.6	1453.0	1432.3	1414.3	1393.6
5°	1510.4	1511.8	1507.6	1495.9	1482.0	1474.4	1464.7	1446.8	1425.3	1400.5	1363.1
7.5°	1513.8	1513.1	1508.3	1493.8	1472.4	1462.7	1446.1	1424.0	1401.8	1379.0	1336.9
10°	1512.4	1512.4	1509.0	1495.2	1471.0	1462.0	1443.3	1419.8	1392.2	1369.4	1324.4
12.5°	1507.6	1510.4	1508.3	1500.7	1482.7	1475.8	1459.2	1435.7	1409.5	1385.9	1338.3
15°	1513.8	1518.0	1522.1	1519.4	1509.0	1502.8	1487.6	1463.4	1441.9	1417.1	1365.9
17.5°	1538.7	1547.7	1557.4	1558.1	1547.0	1535.9	1518.7	1493.8	1473.0	1450.2	1394.9
20°	1585.7	1592.6	1610.6	1614.1	1591.9	1576.0	1551.8	1522.8	1502.1	1482.7	1421.9
22.5°	1655.5	1663.1	1677.7	1672.8	1635.5	1616.8	1586.4	1553.2	1531.8	1520.7	1453.0
25°	1761.3	1763.4	1766.8	1745.4	1683.9	1663.1	1625.8	1588.5	1571.2	1569.8	1497.2
27.5°	1885.7	1888.5	1873.3	1825.6	1737.8	1710.8	1668.7	1634.8	1626.5	1636.9	1553.2
30°	2028.1	2028.8	1986.6	1909.2	1800.0	1770.3	1726.7	1689.4	1697.0	1722.6	1625.1
32.5°	2174.0	2167.1	2109.0	2008.1	1885.0	1849.1	1811.8	1774.4	1796.5	1848.4	1730.2
35°	2307.4	2304.6	2236.2	2118.7	1995.6	1963.8	1936.9	1897.5	1933.4	2017.7	1873.3
37.5°	2440.8	2438.7	2360.6	2238.3	2131.8	2109.0	2088.9	2058.5	2117.3	2241.0	2064.8
40°	2588.0	2584.6	2488.5	2371.0	2290.1	2277.7	2265.9	2252.8	2353.0	2525.1	2303.2
42.5°	2769.8	2754.6	2624.0	2515.4	2464.3	2467.7	2468.4	2481.6	2638.5	2863.1	2584.6
45°	2978.6	2944.7	2760.1	2670.3	2655.8	2676.5	2697.2	2751.8	2971.0	3252.3	2895.6
47.5°	3181.1	3126.5	2917.1	2836.9	2866.6	2909.5	2959.2	3065.7	3344.2	3659.5	3177.7
50°	3355.3	3299.3	3072.6	3006.2	3100.9	3164.5	3253.0	3414.1	3738.3	4003.7	3355.3
52.5°	3492.2	3447.9	3237.1	3192.9	3360.8	3447.9	3586.9	3798.4	4110.1	4230.4	3479.7
55°	3593.1	3571.0	3394.7	3400.9	3649.8	3775.6	3948.4	4187.6	4424.0	4406.7	3573.0
57.5°	3707.2	3689.9	3559.9	3646.3	3997.5	4159.9	4359.7	4551.9	4652.1	4548.4	3664.3
60°	3824.0	3829.5	3760.4	3943.6	4427.4	4607.2	4781.3	4829.0	4847.7	4692.2	3760.4
62.5°	3912.5	3936.0	3942.2	4264.3	4868.4	5021.9	5097.2	5063.4	5059.2	4885.0	3752.8
65°	4014.1	4075.6	4177.9	4616.1	5269.4	5370.3	5424.2	5473.3	5369.6	4942.4	3383.6
67.5°	4189.6	4286.4	4516.6	5047.5	5732.5	5881.8	6034.6	5982.7	5415.9	4359.7	2577.7
70°	4426.0	4544.3	4950.7	5610.8	6360.8	6611.1	6739.0	5941.9	4598.2	3012.4	1359.7
72°	4276.7	4383.9	5084.8	5898.4	6806.0	7035.5	6715.5	5183.0	3333.2	1561.5	455.5
72.5°	4131.6	4242.2	5041.9	5894.9	6850.2	7025.8	6562.7	4883.7	2949.5	1215.2	313.8
75°	2866.6	3006.2	4322.4	5299.1	6186.0	5993.1	5021.2	2957.1	1068.7	208.8	103.7
77.5°	1482.0	1589.9	2621.9	3744.5	4311.3	3948.4	2967.5	1283.0	295.9	110.6	68.4
80°	918.7	971.9	1226.3	1844.9	2239.6	1959.0	1309.2	518.4	189.4	65.7	54.6
82.5°	475.6	516.4	772.1	744.5	827.4	687.8	483.2	434.1	116.8	40.8	56.0
85°	156.2	165.9	474.2	494.9	353.9	237.8	214.3	414.1	33.9	26.3	47.7
87.5°	20.7	24.2	166.6	283.4	174.2	107.8	128.6	145.9	11.8	14.5	13.1
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: P199209

CATALOG NUMBER: XNV2-AF-02-LED-U-SL4-8030-1200-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4
2.5°	1379.7	1370.7	1342.4	1314.1	1281.6	1251.8	1228.3	1213.1	1220.0	1197.2	1200.7
5°	1340.3	1317.5	1255.3	1188.3	1115.7	1047.9	994.0	953.9	946.3	911.8	913.1
7.5°	1302.3	1265.0	1164.1	1053.5	933.2	835.7	747.2	669.8	642.2	613.8	597.2
10°	1281.6	1230.4	1087.3	926.3	756.9	613.8	489.4	391.9	351.2	321.4	306.9
12.5°	1287.8	1220.0	1030.0	810.8	588.3	406.5	276.5	205.3	180.4	166.6	161.8
15°	1308.5	1222.1	978.1	698.2	427.9	246.1	162.4	138.9	136.9	136.2	135.5
17.5°	1327.9	1224.2	923.5	580.6	286.2	156.9	130.6	128.6	128.6	128.6	128.6
20°	1347.9	1224.9	863.4	457.6	188.0	128.6	123.0	121.7	123.0	123.0	123.0
22.5°	1371.4	1229.7	805.3	338.0	138.9	121.0	117.5	116.8	117.5	117.5	116.8
25°	1400.5	1240.1	742.4	241.9	125.8	116.1	112.7	112.0	112.7	112.0	112.0
27.5°	1439.2	1253.9	669.1	173.5	120.3	111.3	107.8	107.8	107.8	107.1	107.1
30°	1488.9	1270.5	571.0	136.9	114.7	106.5	103.7	103.7	103.0	102.3	102.3
32.5°	1560.1	1297.5	463.8	123.7	108.5	100.2	97.5	98.2	97.5	96.8	96.1
35°	1661.1	1339.6	358.1	116.8	102.3	94.0	91.2	91.2	91.2	89.9	89.9
37.5°	1804.2	1403.9	268.2	109.9	96.1	87.8	84.3	84.3	83.6	82.3	82.9
40°	1981.1	1484.8	194.2	103.7	89.9	80.9	78.1	76.7	75.3	74.0	74.0
42.5°	2194.0	1563.6	145.9	97.5	83.6	75.3	71.9	70.5	67.7	66.4	65.7
45°	2432.5	1647.2	121.0	89.9	76.7	69.1	66.4	63.6	60.1	58.1	57.4
47.5°	2633.6	1698.4	107.8	82.3	69.8	62.9	60.1	56.0	51.8	50.5	50.5
50°	2754.6	1677.0	96.8	74.7	62.9	56.7	53.2	47.7	44.9	43.5	42.9
52.5°	2822.4	1613.4	87.8	68.4	56.7	49.8	44.9	40.1	38.7	37.3	37.3
55°	2868.7	1521.4	78.1	62.2	51.2	43.5	38.0	34.6	33.2	32.5	31.8
57.5°	2912.9	1409.5	69.1	56.7	45.6	38.7	32.5	31.1	28.3	27.6	27.6
60°	2926.0	1255.3	60.8	50.5	40.8	33.9	28.3	26.3	23.5	22.8	22.8
62.5°	2758.8	998.9	53.9	42.9	35.9	29.0	24.9	22.1	19.4	19.4	19.4
65°	2305.3	678.1	46.3	37.3	31.8	24.9	21.4	18.0	16.6	16.6	16.6
67.5°	1605.8	378.1	39.4	31.8	27.0	20.7	18.0	15.2	14.5	15.2	15.2
70°	723.7	150.0	33.2	26.3	22.1	17.3	15.2	13.1	14.5	14.5	14.5
72°	217.1	80.2	27.6	21.4	18.0	15.2	13.1	12.4	13.8	14.5	14.5
72.5°	161.1	71.9	26.3	20.7	18.0	14.5	12.4	12.4	13.8	14.5	14.5
75°	82.9	49.1	20.0	15.2	13.1	11.8	10.4	11.8	13.8	13.8	13.8
77.5°	65.0	40.1	16.6	11.8	11.1	10.4	9.7	11.1	12.4	12.4	12.4
80°	60.8	26.3	13.1	11.1	9.7	9.0	9.0	9.7	11.1	11.8	11.8
82.5°	61.5	21.4	11.8	10.4	9.0	8.3	8.3	9.0	10.4	11.1	11.1
85°	39.4	14.5	10.4	9.0	8.3	7.6	7.6	8.3	9.7	10.4	10.4
87.5°	13.1	11.1	9.0	8.3	6.9	6.9	6.9	6.9	8.3	9.0	9.7
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)