

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: P198730

Luminaire Tested: **XNV-AF-01-LED-U-SL4-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198730  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24284)  
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-SL4-600  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3889.3 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

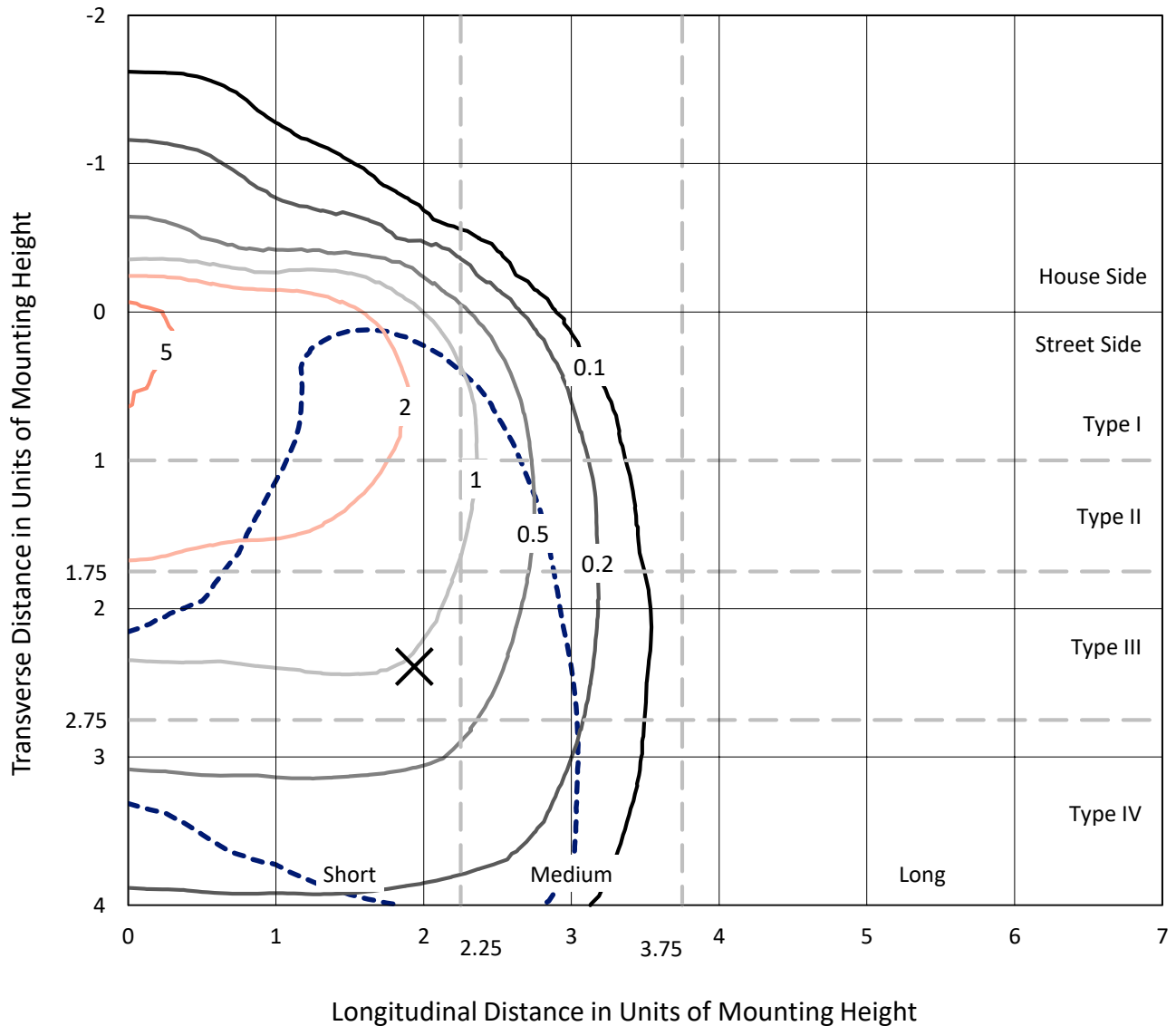
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P198730  
 CATALOG NUMBER: XNV-AF-01-LED-U-SL4-600

### Iso-Footcandle Lines of Horizontal Illumination

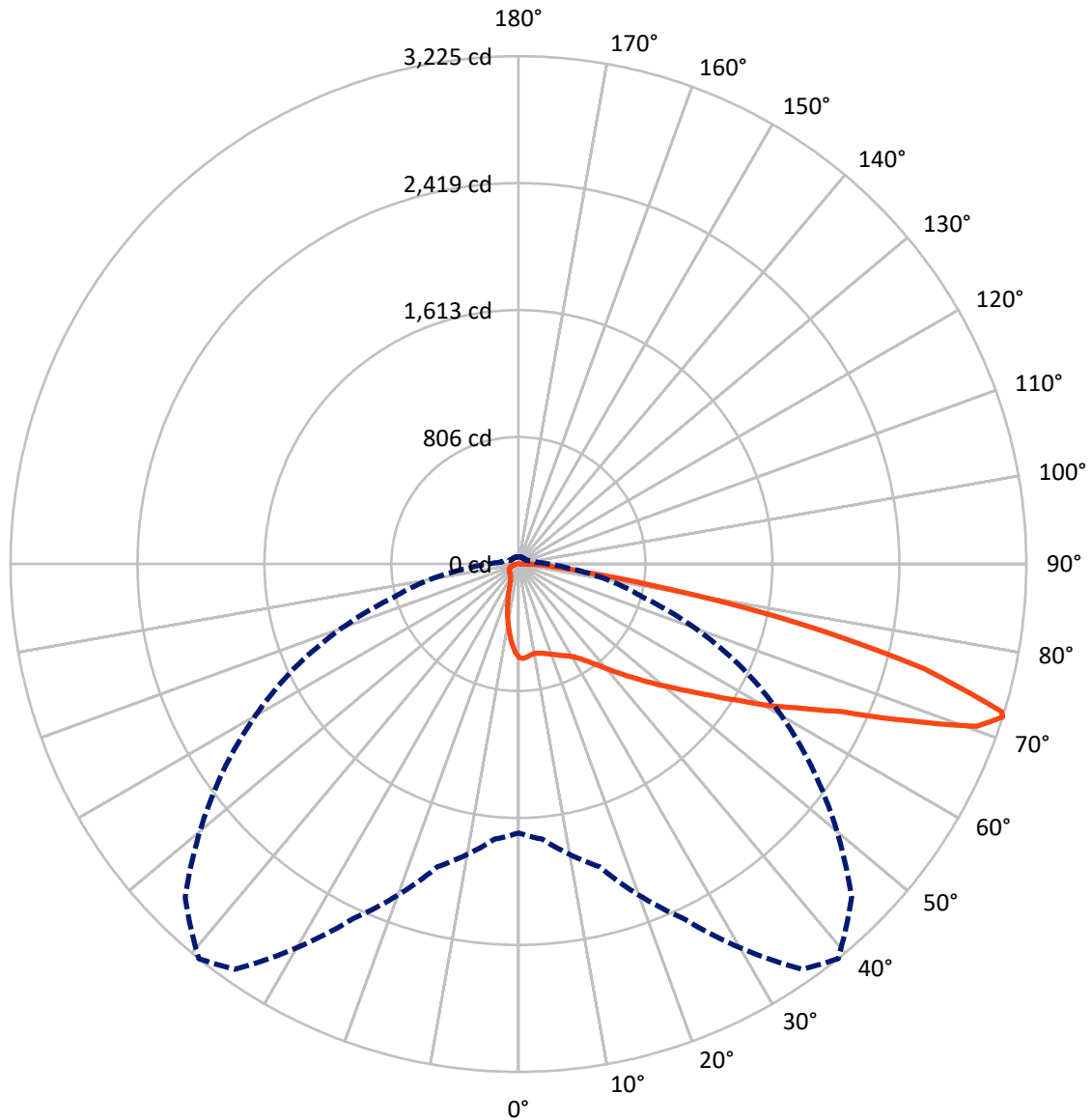
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P198730  
CATALOG NUMBER: XNV-AF-01-LED-U-SL4-600

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P198730

CATALOG NUMBER: XNV-AF-01-LED-U-SL4-600

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	446.0	0.0	446.0
	% Fixture	11.5	0.0	11.5
<b>Street Side</b>	Lumens	3443.3	0.0	3443.3
	% Fixture	88.5	0.0	88.5
<b>Total</b>	Lumens	3889.3	0.0	3889.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.0	1.3
10°-20°	128.3	3.3
20°-30°	199.9	5.1
30°-40°	307.8	7.9
40°-50°	501.7	12.9
50°-60°	779.6	20.0
60°-70°	1043.4	26.8
70°-80°	750.4	19.3
80°-90°	127.2	3.3
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°	3889.3	100.0
0°-180°	3889.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P198730

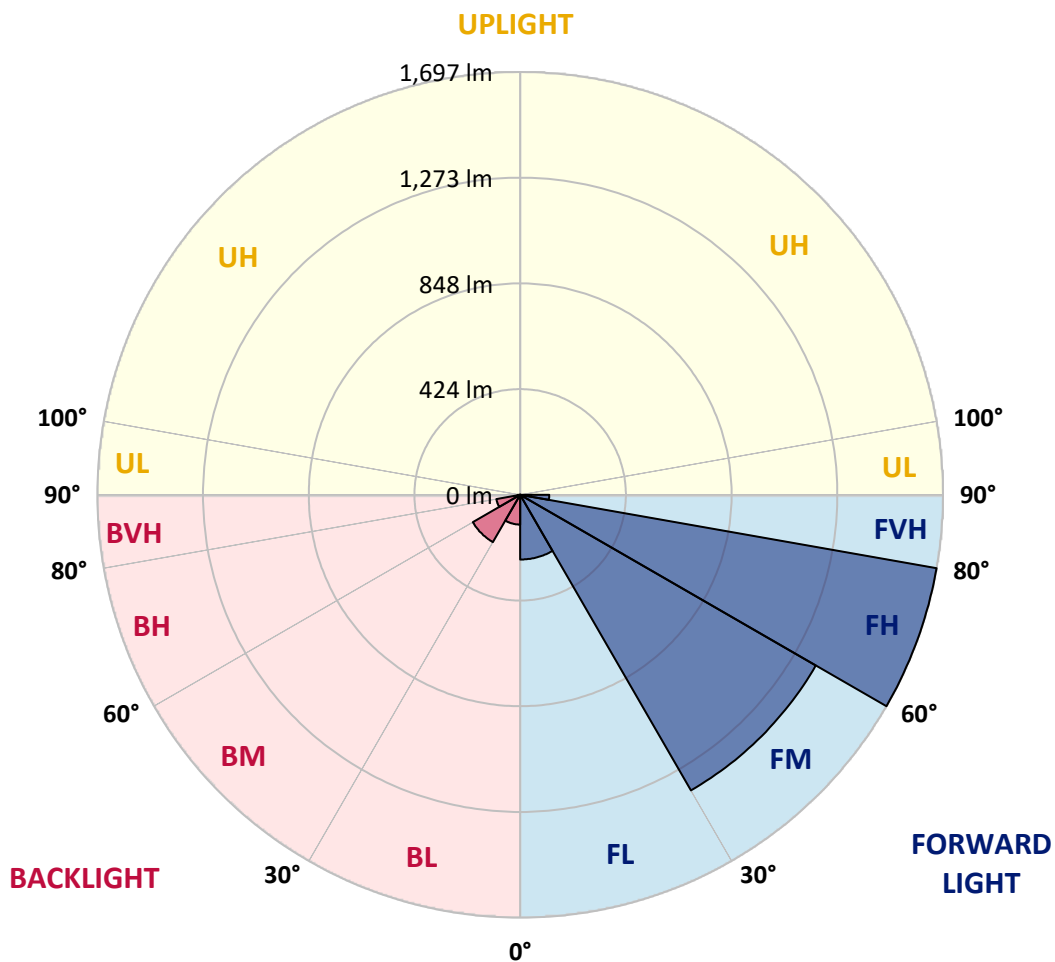
CATALOG NUMBER: XNV-AF-01-LED-U-SL4-600

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	259.8	6.7			
FM	(30°-60°)	1369.9	35.2			
FH	(60°-80°)	1696.9	43.6			G1/1800
FVH	(80°-90°)	116.7	3.0			G2/225
BL	(0°-30°)	119.4	3.1	B1/500		
BM	(30°-60°)	219.2	5.6	B0/220		
BH	(60°-80°)	96.9	2.5	B0/110		G0/110
BVH	(80°-90°)	10.5	0.3			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 IV Short





REPORT NUMBER: P198730

CATALOG NUMBER: XNV-AF-01-LED-U-SL4-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	593.9	593.9	593.9	593.9	593.9	593.9	593.9	593.9	593.9	593.9	593.9
2.5°	606.7	607.0	606.2	603.8	601.8	600.8	598.9	595.8	591.6	588.7	586.4
5°	601.0	601.8	601.3	597.4	593.7	591.6	588.7	584.3	578.8	576.4	571.0
7.5°	596.6	597.1	595.6	591.1	584.0	581.4	576.2	570.5	565.5	562.1	555.6
10°	593.4	593.9	592.7	588.2	580.4	577.3	571.0	564.7	558.2	554.0	546.7
12.5°	589.0	590.0	590.0	588.0	582.8	580.6	574.4	567.6	561.6	557.1	548.0
15°	588.2	589.5	591.9	591.6	590.0	588.5	583.5	576.7	571.5	566.3	555.1
17.5°	594.7	597.6	602.3	603.8	602.8	599.4	593.7	587.5	581.6	576.7	562.9
20°	611.2	612.7	619.8	623.0	617.8	612.7	605.2	597.1	591.9	588.0	570.2
22.5°	636.0	638.1	643.8	644.0	633.1	627.1	617.5	607.5	602.6	601.0	580.1
25°	675.7	675.1	676.7	670.2	650.4	643.3	631.6	620.1	616.6	619.8	594.7
27.5°	723.2	721.9	716.9	700.0	669.9	660.8	646.7	636.5	636.5	643.8	614.6
30°	778.1	776.7	760.6	732.0	693.2	682.7	667.9	657.1	662.7	676.7	641.5
32.5°	836.0	831.2	808.5	770.5	726.3	714.8	700.5	689.5	700.0	723.9	680.2
35°	890.6	887.9	860.0	814.9	769.2	759.4	749.5	736.0	752.7	790.0	734.7
37.5°	946.9	944.9	910.6	862.7	821.3	814.9	806.5	797.1	824.0	873.1	808.5
40°	1009.9	1005.7	962.6	914.5	882.2	879.0	874.6	872.0	915.3	988.5	902.0
42.5°	1081.2	1073.1	1017.4	971.7	948.5	951.1	948.8	959.2	1025.5	1121.6	1013.2
45°	1162.6	1146.4	1072.0	1032.6	1021.8	1032.4	1037.3	1063.9	1155.8	1275.4	1137.5
47.5°	1238.8	1217.9	1131.8	1098.6	1104.7	1122.7	1136.7	1183.8	1298.6	1427.3	1264.4
50°	1309.1	1285.5	1195.7	1167.0	1196.2	1221.8	1251.1	1317.5	1450.5	1583.7	1380.9
52.5°	1361.0	1344.1	1259.8	1241.7	1301.5	1335.5	1382.2	1466.0	1604.1	1732.8	1484.8
55°	1401.2	1392.1	1322.2	1327.4	1420.6	1469.1	1525.7	1622.1	1766.4	1866.5	1568.3
57.5°	1447.7	1440.9	1393.4	1430.7	1568.3	1629.5	1696.3	1803.3	1921.0	1984.2	1633.9
60°	1496.8	1496.8	1472.7	1555.3	1753.1	1823.1	1889.7	1973.0	2075.1	2090.2	1660.5
62.5°	1533.8	1543.5	1552.1	1687.9	1928.6	2015.5	2088.7	2168.6	2234.6	2142.5	1597.8
65°	1587.6	1608.3	1656.8	1841.1	2145.8	2259.7	2358.3	2425.4	2363.8	2100.9	1393.4
67.5°	1680.1	1710.6	1814.0	2069.3	2478.4	2648.9	2744.8	2628.8	2338.5	1839.6	1067.3
70°	1763.4	1806.4	1983.2	2358.8	2910.8	3087.8	3043.7	2581.6	2036.7	1348.5	656.6
72°	1708.0	1755.0	1991.0	2485.0	3141.9	3225.4	2992.7	2287.8	1573.8	823.0	323.8
72.5°	1671.7	1720.5	1965.7	2481.9	3148.1	3207.9	2922.1	2171.1	1428.7	720.1	261.9
75°	1396.5	1438.3	1690.2	2199.7	2774.2	2664.6	2280.3	1405.1	656.6	232.6	134.7
77.5°	912.0	943.8	1165.4	1523.9	1943.2	1837.7	1387.9	658.0	246.2	141.3	101.3
80°	458.2	480.9	623.7	801.3	1048.7	964.9	640.7	318.2	164.7	102.1	79.6
82.5°	318.8	339.6	429.4	409.1	438.3	424.2	301.3	265.6	123.3	64.4	41.7
85°	267.3	289.0	355.4	291.6	238.7	217.5	215.9	250.9	81.4	31.8	35.3
87.5°	233.1	266.1	293.2	213.1	163.7	144.3	159.0	230.1	25.9	17.5	10.7
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: P198730

CATALOG NUMBER: XNV-AF-01-LED-U-SL4-600

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	593.9	593.9	593.9	593.9	593.9	593.9	593.9	593.9	593.9	593.9	593.9
2.5°	582.5	581.6	577.8	571.7	567.3	564.5	558.9	558.7	559.2	554.5	556.4
5°	566.0	562.9	552.7	538.9	527.6	516.9	505.2	501.2	497.9	490.8	491.6
7.5°	548.8	543.3	525.6	502.9	481.2	461.4	441.7	432.1	424.7	415.6	415.6
10°	538.6	530.0	502.9	469.6	435.3	406.2	377.0	359.5	346.7	335.0	334.2
12.5°	538.1	525.1	487.1	441.5	394.2	353.5	313.5	286.6	267.6	253.8	252.5
15°	542.3	524.0	474.1	415.1	355.6	302.6	253.3	219.0	194.8	179.3	177.8
17.5°	545.9	522.7	460.0	387.5	318.0	253.5	198.7	163.2	140.2	127.7	126.3
20°	549.3	519.9	442.0	358.2	276.5	207.6	155.4	126.6	111.5	104.4	103.6
22.5°	554.2	517.2	423.2	325.3	235.8	168.9	128.2	107.6	99.4	96.1	95.5
25°	562.4	517.5	405.0	291.6	198.5	140.8	111.0	98.2	93.7	91.3	91.3
27.5°	574.1	520.6	386.9	257.5	166.8	121.4	100.8	93.2	90.3	88.5	88.0
30°	591.4	526.3	367.9	225.0	141.8	108.1	94.7	90.1	87.8	86.1	85.9
32.5°	616.4	536.5	347.8	195.6	122.8	98.7	90.3	87.5	85.6	84.3	84.1
35°	653.8	554.5	328.2	170.5	109.1	91.9	86.6	84.3	83.3	82.8	82.6
37.5°	708.6	583.5	309.6	150.9	100.2	87.5	83.1	81.7	81.2	81.2	81.2
40°	777.5	621.6	293.0	137.1	95.3	84.1	80.4	79.4	79.4	79.6	79.6
42.5°	861.3	669.4	278.5	127.7	92.4	81.7	78.6	78.1	77.8	77.8	78.1
45°	958.7	725.8	269.6	120.4	90.3	80.4	77.2	77.0	76.0	75.5	75.5
47.5°	1056.6	786.1	269.1	116.2	87.8	78.9	76.0	76.0	73.9	72.8	73.1
50°	1148.0	840.1	275.0	115.2	86.1	76.5	74.7	74.9	72.0	70.8	70.5
52.5°	1221.6	881.4	281.9	116.4	86.1	74.4	72.3	73.7	70.5	68.9	68.6
55°	1278.5	910.1	284.6	119.3	87.2	72.6	70.3	72.3	70.0	67.9	67.9
57.5°	1319.2	919.2	273.3	120.6	88.8	72.3	68.1	72.0	70.8	68.1	68.1
60°	1304.4	866.2	231.6	115.7	88.5	71.8	66.6	72.6	73.3	70.5	70.5
62.5°	1188.2	724.8	185.9	104.4	84.1	70.0	64.8	72.0	75.2	74.2	73.7
65°	967.3	531.5	144.1	91.1	76.5	66.1	60.9	67.3	71.0	72.0	72.3
67.5°	681.7	336.6	112.0	77.5	67.1	60.4	56.4	59.5	60.9	61.4	62.4
70°	372.9	182.2	89.0	65.3	57.4	54.5	51.7	52.0	51.5	50.9	51.5
72°	187.2	119.1	75.2	56.7	50.9	49.1	47.8	47.0	47.0	46.2	46.4
72.5°	161.1	110.7	72.6	54.5	49.3	47.8	46.7	45.9	45.7	45.2	45.4
75°	107.3	87.8	60.6	45.7	42.0	41.0	41.5	40.7	41.0	40.5	40.7
77.5°	86.6	75.5	51.5	38.7	36.0	34.5	35.5	35.8	36.3	35.8	35.5
80°	72.6	64.2	43.1	31.8	30.1	28.7	29.3	31.1	31.3	29.8	29.5
82.5°	47.0	51.7	34.0	24.8	23.0	22.4	23.7	25.6	26.1	24.0	23.5
85°	39.4	41.5	24.6	17.0	15.1	14.6	17.2	19.0	20.4	18.3	17.8
87.5°	10.9	20.4	12.0	8.1	6.8	6.8	8.4	9.9	11.8	12.0	12.0
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)