

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: P271242

Luminaire Tested: **XNV-AF-01-LED-U-SL4-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271242
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-SL4-7027-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 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: 3303.7 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

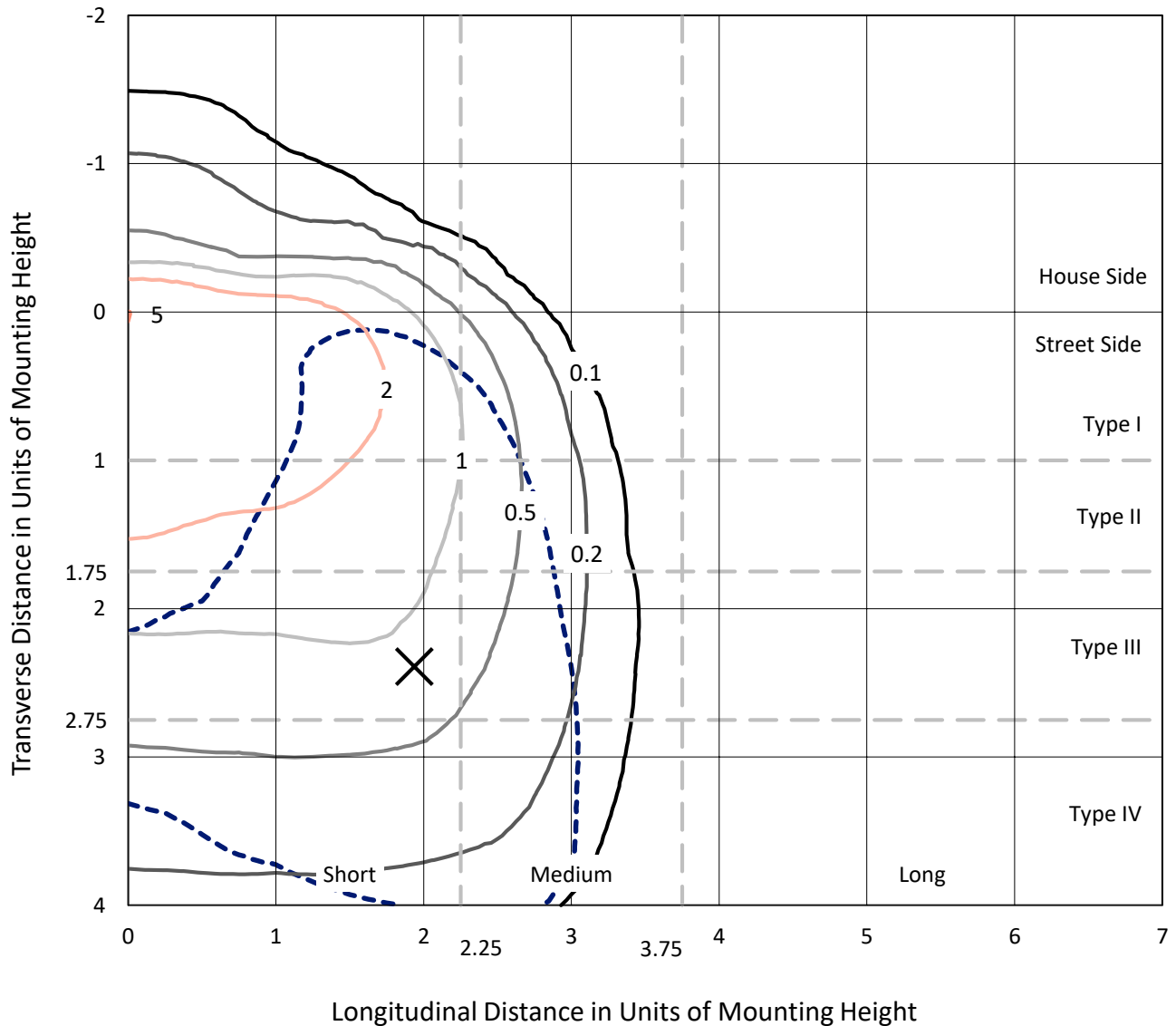
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P271242
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Iso-Footcandle Lines of Horizontal Illumination

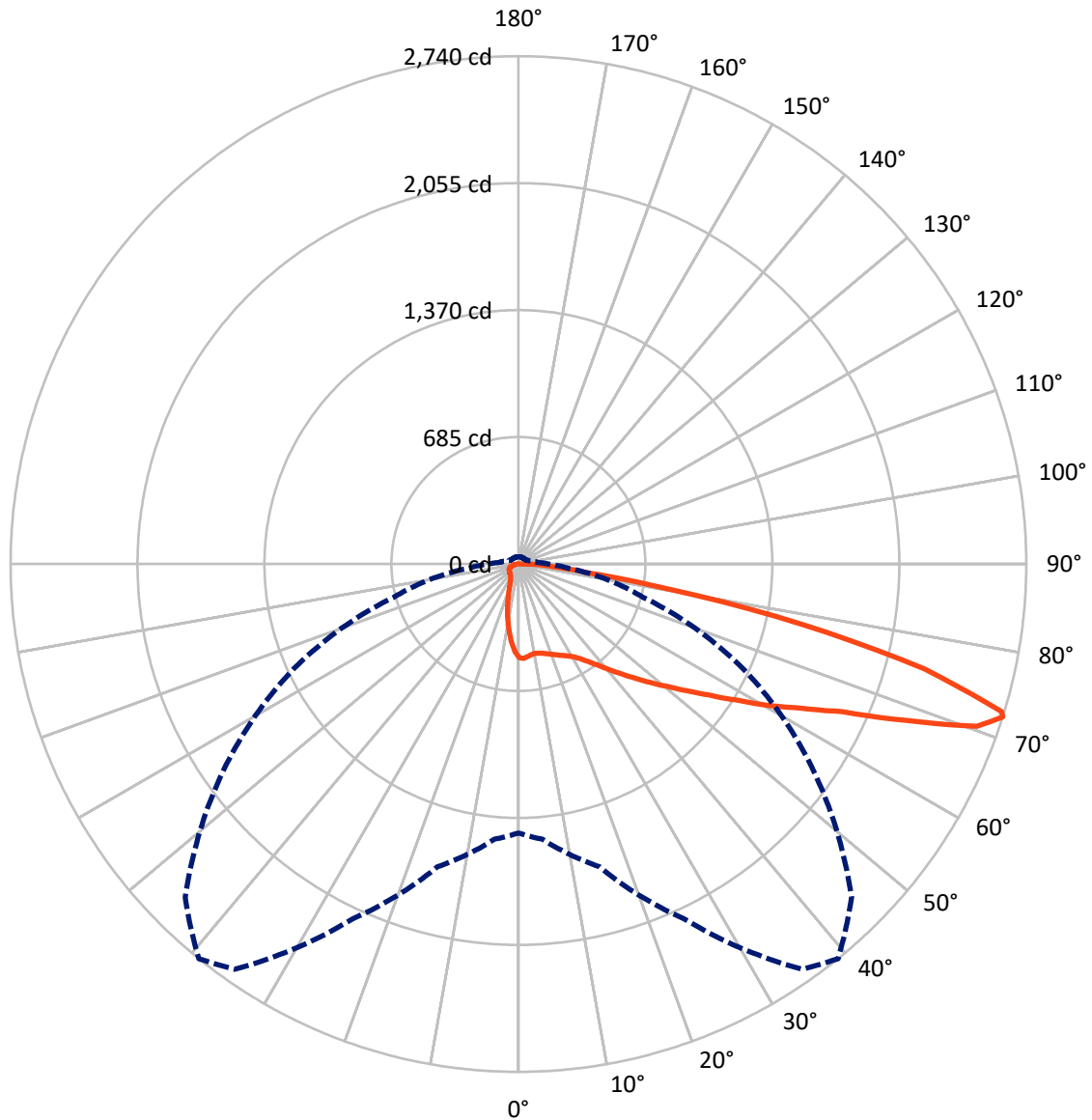
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P271242
CATALOG NUMBER: XNV-AF-01-LED-U-SL4-7027-600

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: XNV-AF-01-LED-U-SL4-7027-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	378.8	0.0	378.8
	% Fixture	11.5	0.0	11.5
Street Side	Lumens	2924.9	0.0	2924.9
	% Fixture	88.5	0.0	88.5
Total	Lumens	3303.7	0.0	3303.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.4	1.3
10°-20°	108.9	3.3
20°-30°	169.8	5.1
30°-40°	261.4	7.9
40°-50°	426.2	12.9
50°-60°	662.2	20.0
60°-70°	886.3	26.8
70°-80°	637.4	19.3
80°-90°	108.0	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°	3303.7	100.0
0°-180°	3303.7	100.0

Coefficient of Utilization



REPORT NUMBER: P271242

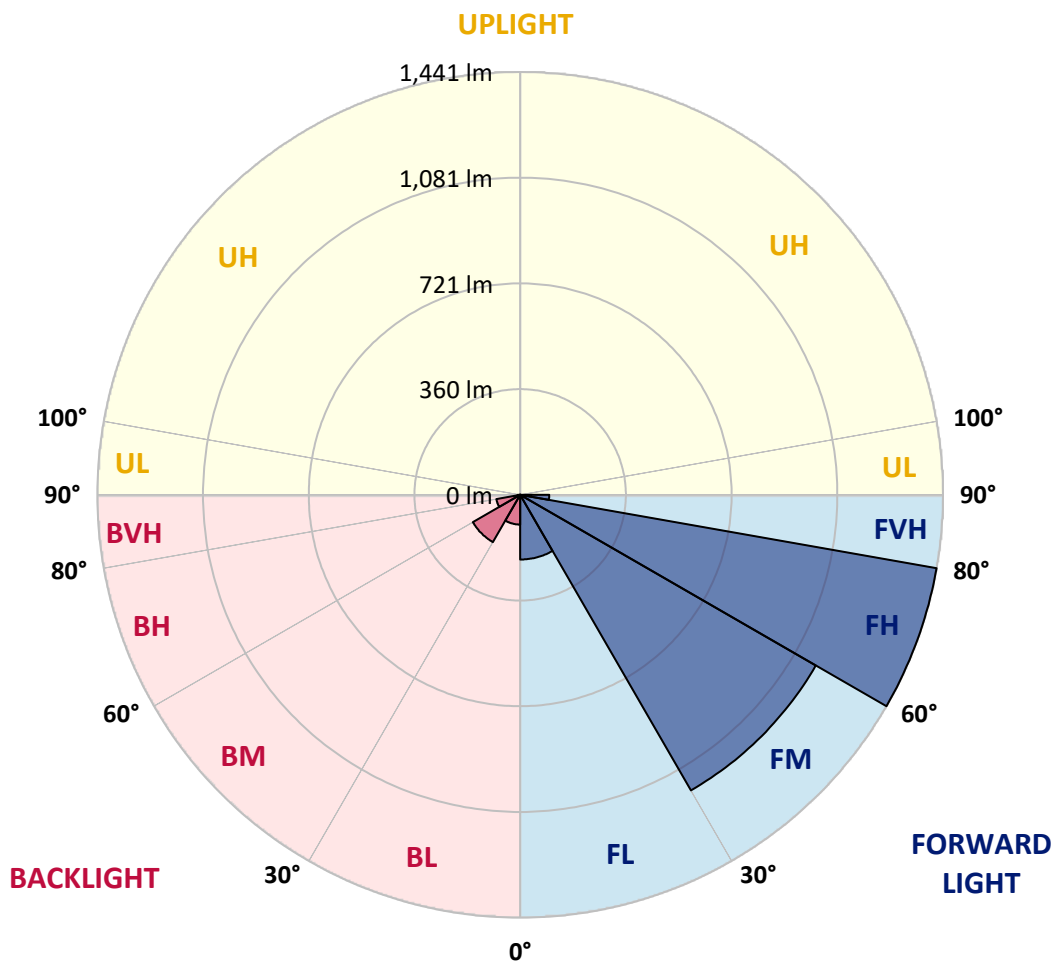
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	220.7	6.7			
FM	(30°-60°)	1163.6	35.2			
FH	(60°-80°)	1441.4	43.6			G1/1800
FVH	(80°-90°)	99.1	3.0			G1/100
BL	(0°-30°)	101.4	3.1	B0/110		
BM	(30°-60°)	186.2	5.6	B0/220		
BH	(60°-80°)	82.3	2.5	B0/110		G0/110
BVH	(80°-90°)	8.9	0.3			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





REPORT NUMBER: P271242

CATALOG NUMBER: XNV-AF-01-LED-U-SL4-7027-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5
2.5°	515.4	515.5	515.0	512.9	511.1	510.2	508.7	506.0	502.5	500.0	498.1
5°	510.4	511.1	510.7	507.5	504.3	502.5	500.0	496.4	491.6	489.7	485.1
7.5°	506.7	507.3	505.8	502.2	496.1	493.9	489.4	484.5	480.4	477.4	471.9
10°	504.0	504.5	503.4	499.6	493.0	490.4	485.1	479.6	474.1	470.6	464.5
12.5°	500.4	501.3	501.3	499.5	495.0	493.2	487.9	482.1	477.0	473.2	465.5
15°	499.6	500.7	502.7	502.5	501.3	499.8	495.7	489.8	485.4	481.0	471.5
17.5°	505.1	507.6	511.7	512.9	512.0	509.2	504.3	499.0	494.1	489.8	478.2
20°	519.2	520.5	526.4	529.1	524.7	520.5	514.1	507.3	502.7	499.5	484.4
22.5°	540.2	541.9	546.9	547.1	537.7	532.6	524.5	516.0	511.9	510.4	492.8
25°	573.9	573.5	574.8	569.3	552.5	546.4	536.5	526.6	523.8	526.4	505.1
27.5°	614.4	613.3	609.1	594.6	569.0	561.4	549.4	540.7	540.7	546.9	522.0
30°	660.9	659.7	646.1	621.8	588.7	579.9	567.3	558.1	562.9	574.8	544.9
32.5°	710.1	706.1	686.8	654.4	617.0	607.3	594.9	585.6	594.6	615.0	577.7
35°	756.5	754.2	730.5	692.1	653.3	645.2	636.7	625.2	639.4	671.0	624.1
37.5°	804.3	802.5	773.5	732.7	697.8	692.1	685.0	677.1	699.9	741.6	686.8
40°	857.8	854.3	817.6	776.9	749.4	746.8	743.0	740.7	777.6	839.6	766.3
42.5°	918.3	911.5	864.2	825.5	805.7	807.9	805.9	814.9	871.1	952.7	860.7
45°	987.5	973.9	910.6	877.1	868.0	876.8	881.1	903.8	981.8	1083.4	966.2
47.5°	1052.4	1034.6	961.4	933.2	938.3	953.6	965.6	1005.6	1103.1	1212.4	1074.1
50°	1111.9	1092.0	1015.8	991.3	1016.2	1037.9	1062.8	1119.1	1232.1	1345.2	1172.9
52.5°	1156.1	1141.7	1070.1	1054.7	1105.5	1134.4	1174.1	1245.2	1362.5	1472.0	1261.2
55°	1190.3	1182.4	1123.1	1127.6	1206.7	1247.9	1296.1	1377.9	1500.4	1585.5	1332.1
57.5°	1229.7	1223.9	1183.5	1215.2	1332.1	1384.1	1440.8	1531.8	1631.9	1685.5	1387.8
60°	1271.5	1271.5	1251.0	1321.0	1489.2	1548.6	1605.2	1675.9	1762.7	1775.5	1410.5
62.5°	1302.9	1311.0	1318.4	1433.8	1638.1	1712.1	1774.2	1842.1	1898.2	1819.8	1357.2
65°	1348.5	1366.1	1407.4	1563.9	1822.8	1919.4	2003.3	2060.3	2007.9	1784.7	1183.5
67.5°	1427.0	1453.1	1540.9	1757.8	2105.3	2250.1	2331.6	2232.9	1986.4	1562.6	906.6
70°	1497.8	1534.5	1684.6	2003.7	2472.6	2623.0	2585.4	2192.9	1730.0	1145.5	557.8
72°	1450.9	1490.7	1691.1	2110.7	2668.8	2739.8	2542.2	1943.4	1336.9	699.1	275.1
72.5°	1420.0	1461.5	1669.7	2108.1	2674.2	2724.9	2482.0	1844.2	1213.5	611.7	222.4
75°	1186.2	1221.8	1435.8	1868.5	2356.6	2263.4	1936.9	1193.6	557.8	197.5	114.4
77.5°	774.7	801.6	990.0	1294.5	1650.6	1561.1	1178.9	558.8	209.1	120.0	86.1
80°	389.2	408.5	529.8	680.6	890.8	819.7	544.3	270.3	140.0	86.6	67.6
82.5°	270.7	288.5	364.8	347.6	372.3	360.4	255.9	225.6	104.7	54.7	35.6
85°	227.1	245.4	301.8	247.8	202.7	184.7	183.4	213.1	69.2	27.0	30.0
87.5°	198.0	226.0	249.0	181.0	139.1	122.7	135.0	195.4	22.0	14.8	9.2
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: P271242

CATALOG NUMBER: XNV-AF-01-LED-U-SL4-7027-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5
2.5°	494.7	494.1	490.7	485.7	481.9	479.4	474.8	474.6	475.1	471.0	472.6
5°	480.9	478.2	469.5	457.7	448.3	439.1	429.1	425.7	422.9	417.0	417.6
7.5°	466.2	461.5	446.4	427.1	408.6	391.9	375.2	367.0	360.8	353.0	353.0
10°	457.4	450.2	427.1	398.9	369.7	345.0	320.2	305.3	294.6	284.6	283.9
12.5°	457.1	446.0	413.8	375.0	334.9	300.3	266.3	243.5	227.4	215.6	214.4
15°	460.7	445.1	402.7	352.7	302.1	257.1	215.1	186.0	165.5	152.4	151.1
17.5°	463.7	444.0	390.8	329.0	270.1	215.4	168.8	138.6	119.0	108.4	107.3
20°	466.6	441.5	375.4	304.3	234.8	176.2	132.0	107.5	94.7	88.8	88.0
22.5°	470.8	439.4	359.5	276.3	200.2	143.5	108.9	91.4	84.5	81.7	81.1
25°	477.7	439.5	344.1	247.8	168.5	119.6	94.2	83.5	79.6	77.7	77.7
27.5°	487.7	442.2	328.7	218.6	141.8	103.1	85.6	79.2	76.7	75.2	74.6
30°	502.3	447.0	312.5	191.2	120.5	91.7	80.5	76.5	74.5	73.2	72.9
32.5°	523.6	455.7	295.5	166.0	104.3	83.8	76.7	74.3	72.8	71.7	71.4
35°	555.3	471.0	278.7	144.7	92.6	78.1	73.7	71.7	70.7	70.2	70.1
37.5°	601.9	495.7	263.1	128.2	85.2	74.3	70.5	69.3	69.0	69.0	69.0
40°	660.4	528.1	248.8	116.4	80.9	71.4	68.4	67.5	67.5	67.6	67.6
42.5°	731.6	568.5	236.7	108.4	78.5	69.3	66.7	66.4	66.0	66.0	66.4
45°	814.4	616.5	229.1	102.2	76.7	68.4	65.7	65.4	64.6	64.0	64.0
47.5°	897.4	667.8	228.7	98.8	74.5	67.0	64.6	64.6	62.7	61.9	62.2
50°	975.1	713.7	233.5	97.7	73.2	64.9	63.4	63.6	61.3	60.0	59.8
52.5°	1037.6	748.6	239.5	99.0	73.2	63.2	61.4	62.5	59.8	58.6	58.3
55°	1086.1	773.1	241.7	101.4	74.1	61.7	59.6	61.4	59.5	57.6	57.6
57.5°	1120.6	780.8	232.2	102.4	75.4	61.4	57.9	61.3	60.0	57.9	57.9
60°	1108.0	735.8	196.6	98.3	75.2	60.9	56.6	61.7	62.3	59.8	59.8
62.5°	1009.2	615.7	157.9	88.8	71.4	59.5	54.9	61.3	63.9	63.1	62.5
65°	821.7	451.5	122.3	77.4	64.9	56.1	51.7	57.2	60.4	61.3	61.4
67.5°	579.0	285.9	95.1	65.8	57.0	51.3	47.9	50.6	51.7	52.1	53.0
70°	316.7	154.8	75.6	55.4	48.8	46.4	43.8	44.1	43.7	43.3	43.7
72°	159.0	101.1	63.9	48.1	43.3	41.7	40.6	40.0	40.0	39.3	39.4
72.5°	136.8	94.1	61.7	46.4	42.0	40.6	39.6	39.0	38.7	38.4	38.5
75°	91.2	74.5	51.5	38.7	35.8	34.9	35.3	34.6	34.9	34.3	34.6
77.5°	73.7	64.0	43.7	32.8	30.6	29.3	30.2	30.5	30.8	30.5	30.2
80°	61.7	54.5	36.7	27.0	25.5	24.4	24.9	26.4	26.6	25.3	25.1
82.5°	40.0	43.8	28.8	21.1	19.6	19.0	20.2	21.6	22.2	20.4	19.9
85°	33.4	35.3	20.8	14.5	12.8	12.4	14.6	16.2	17.2	15.5	15.1
87.5°	9.3	17.2	10.2	6.8	5.7	5.7	7.0	8.4	10.1	10.2	10.2
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)