

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: P271226

Luminaire Tested: **XNV-AF-01-LED-U-SL2-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271226  
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: XNV-AF-01-LED-U-SL2-7027-600  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE 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: 3394 lumens  
Efficiency: N/A  
Efficacy: 99.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

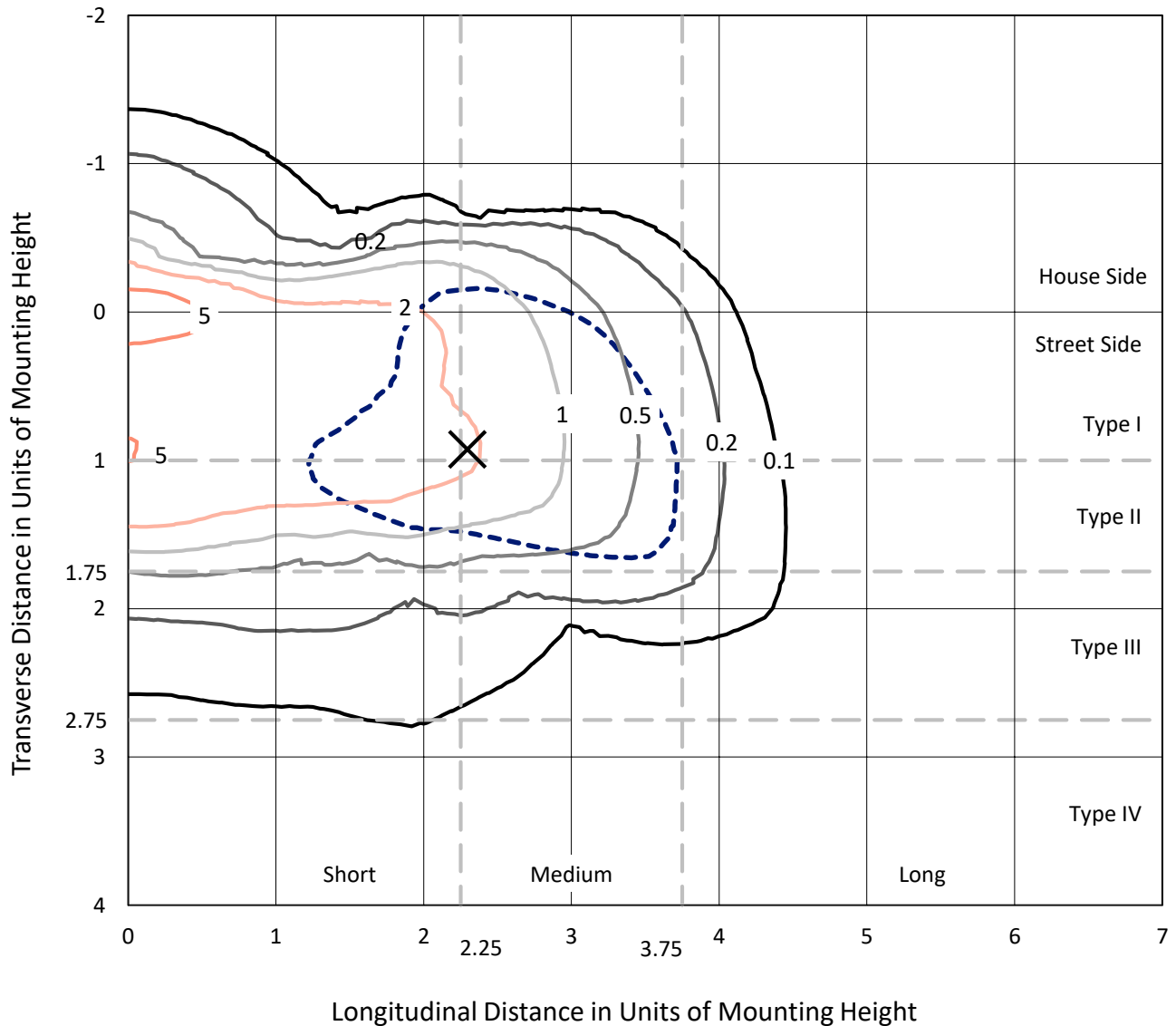
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

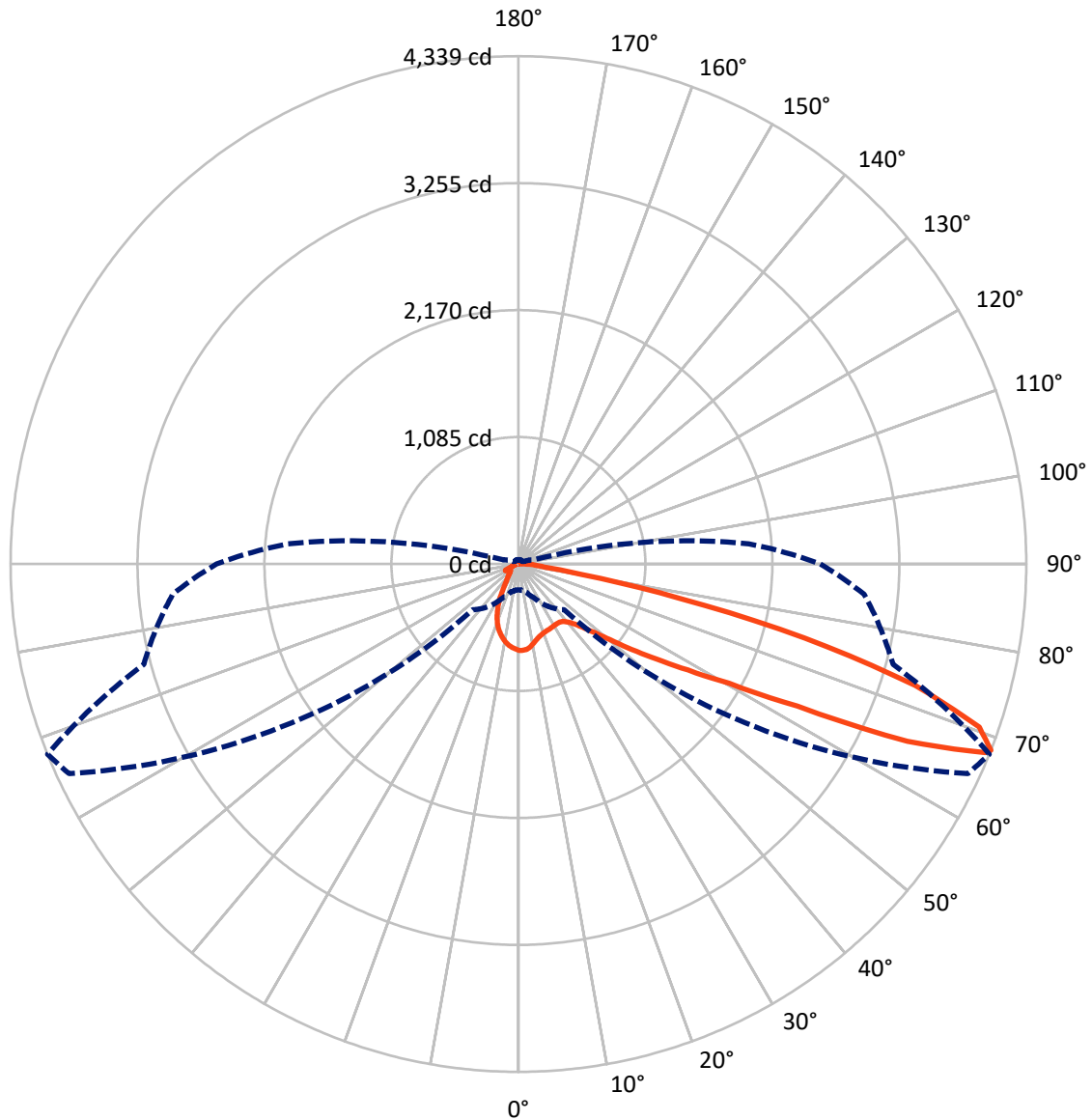
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 fc  
 Type II - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: XNV-AF-01-LED-U-SL2-7027-600

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	555.3	0.0	555.3
	% Fixture	16.4	0.0	16.4
<b>Street Side</b>	Lumens	2838.7	0.0	2838.7
	% Fixture	83.6	0.0	83.6
<b>Total</b>	Lumens	3394.0	0.0	3394.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.3	1.9
10°-20°	146.8	4.3
20°-30°	198.5	5.8
30°-40°	279.9	8.2
40°-50°	460.2	13.6
50°-60°	713.3	21.0
60°-70°	924.9	27.3
70°-80°	530.8	15.6
80°-90°	76.4	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°	3394.0	100.0
0°-180°	3394.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P271226

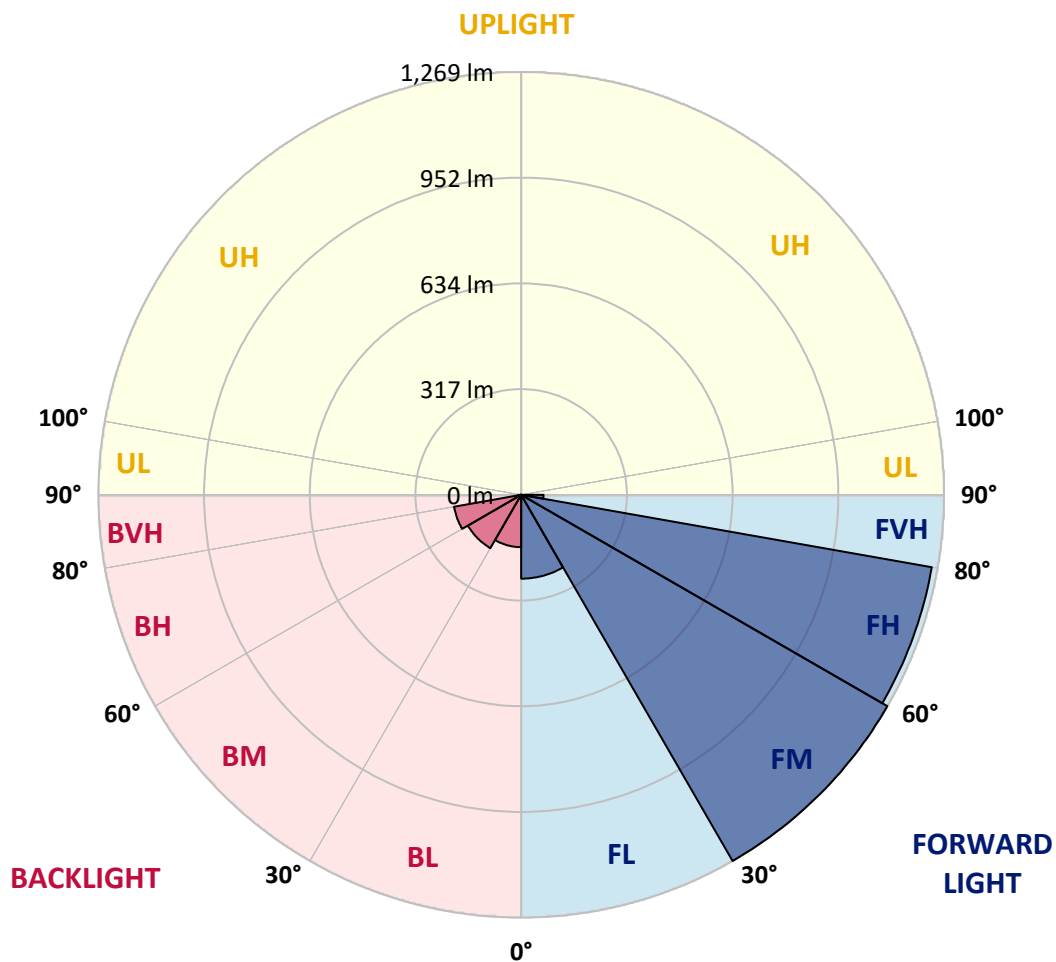
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	251.6	7.4			
FM (30°-60°)	1268.7	37.4			
FH (60°-80°)	1251.2	36.9			G1/1800
FVH (80°-90°)	67.3	2.0			G1/100
BL (0°-30°)	157.0	4.6	B1/500		
BM (30°-60°)	184.7	5.4	B0/220		
BH (60°-80°)	204.5	6.0	B1/500		G1/500
BVH (80°-90°)	9.1	0.3			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	738.4	738.4	738.4	738.4	738.4	738.4	738.4	738.4	738.4	738.4	738.4
2.5°	718.7	724.6	724.6	728.7	732.5	735.6	738.2	738.2	738.2	736.5	735.0
5°	643.1	650.9	652.0	662.7	676.7	693.8	712.7	729.7	732.9	739.1	741.6
7.5°	590.6	593.1	597.3	604.6	618.8	639.9	669.7	707.4	716.6	736.0	746.2
10°	553.4	555.3	558.9	566.2	579.0	598.1	627.6	676.7	691.8	726.3	746.5
12.5°	526.0	527.7	531.0	537.6	550.8	567.8	597.9	648.9	667.5	716.6	749.5
15°	504.8	507.5	510.1	516.5	529.9	546.3	576.9	628.8	648.9	708.9	755.4
17.5°	496.5	497.8	498.2	501.6	513.6	530.1	560.7	614.6	635.5	702.6	759.7
20°	501.8	502.0	497.5	495.2	502.2	517.5	547.2	603.9	625.2	697.1	761.6
22.5°	525.0	525.0	513.6	503.7	499.1	508.6	538.1	596.7	619.7	692.9	761.6
25°	569.3	567.3	549.4	530.1	509.5	505.4	532.3	592.0	615.5	690.5	758.7
27.5°	627.6	625.8	603.0	574.5	537.1	512.2	530.3	588.2	611.2	687.4	752.5
30°	698.6	697.1	671.2	633.7	578.7	533.2	535.0	585.5	608.0	681.8	742.0
32.5°	769.3	768.4	747.7	709.4	635.8	568.8	547.2	585.1	606.1	675.0	729.5
35°	840.5	840.5	827.9	795.4	712.7	622.5	572.7	593.3	609.5	671.6	718.6
37.5°	945.6	941.3	917.9	884.4	809.6	692.1	613.9	610.6	622.3	677.5	715.1
40°	1108.2	1096.1	1037.4	981.0	915.5	781.3	674.2	644.1	651.1	698.0	723.5
42.5°	1278.6	1259.2	1181.5	1091.4	1024.7	891.3	753.4	698.3	698.2	737.4	750.3
45°	1424.7	1414.7	1330.4	1216.2	1149.6	1014.9	853.3	779.1	771.0	798.6	801.8
47.5°	1509.6	1503.0	1452.2	1348.4	1297.6	1161.1	980.1	890.9	875.9	892.3	887.3
50°	1486.1	1492.5	1477.9	1424.9	1456.8	1366.3	1141.7	1044.5	1015.9	1032.2	1019.8
52.5°	1362.4	1379.6	1392.7	1403.0	1548.4	1641.1	1344.9	1236.0	1212.4	1209.4	1197.4
55°	1139.6	1167.1	1208.3	1283.1	1523.7	1861.6	1699.7	1467.7	1433.1	1414.9	1419.6
57.5°	775.5	817.2	906.1	1048.6	1395.8	1955.7	2224.2	1767.0	1708.4	1643.7	1658.8
60°	427.2	462.0	567.8	711.5	1103.8	1941.6	2689.0	2253.4	2069.2	1897.6	1928.7
62.5°	276.5	284.0	362.7	486.0	677.5	1714.2	2947.2	3066.4	2676.1	2232.4	2276.0
65°	222.2	227.5	266.1	392.0	472.0	1102.8	2958.8	3909.8	3652.4	2687.3	2688.5
67.5°	217.0	219.5	241.9	329.7	442.8	600.3	2557.6	4242.2	4302.0	3224.2	2964.6
68°	220.2	223.0	245.6	319.4	442.5	553.4	2363.8	4237.2	4339.4	3314.0	2964.6
70°	194.3	197.7	250.5	330.5	423.7	475.8	1618.7	4012.2	4176.7	3520.5	2813.0
72.5°	101.6	98.6	124.0	261.0	476.9	495.8	855.0	3351.9	3544.0	3260.4	2430.4
75°	79.1	72.0	69.3	103.0	419.5	514.1	496.7	2382.5	2527.4	2350.2	1624.5
77.5°	74.5	65.8	60.7	60.9	184.7	535.0	401.7	1402.1	1402.1	1121.2	518.3
80°	59.8	51.9	48.6	55.4	89.1	493.1	419.2	639.0	544.9	289.8	142.8
82.5°	39.4	35.3	35.5	45.0	67.6	329.1	485.5	315.5	237.1	128.4	84.0
85°	25.1	21.5	24.0	31.5	50.6	146.8	480.7	219.2	156.9	72.0	42.0
87.5°	12.7	9.7	11.9	16.3	30.8	42.1	395.8	195.8	116.4	30.0	22.8
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: P271226

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-7027-600

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	738.4	738.4	738.4	738.4	738.4	738.4	738.4	738.4	738.4	738.4	738.4
2.5°	735.0	730.1	727.6	723.7	718.7	714.0	710.6	709.0	708.1	708.6	708.4
5°	740.3	733.8	723.5	708.6	693.2	677.1	664.7	655.1	649.1	647.4	646.9
7.5°	744.2	735.0	715.4	688.5	662.2	633.8	609.7	590.4	577.3	571.3	571.1
10°	743.5	731.6	700.8	661.0	622.5	580.8	542.9	510.5	487.2	475.8	475.4
12.5°	744.2	727.8	682.8	628.8	573.7	514.1	457.9	407.6	372.4	355.8	355.2
15°	746.9	723.9	664.4	592.8	516.7	432.5	352.0	288.9	256.9	246.0	246.0
17.5°	746.8	717.1	643.1	551.2	449.2	336.3	240.3	201.3	198.2	208.1	209.8
20°	742.3	706.5	615.7	501.8	369.8	232.8	163.0	157.5	182.3	209.8	212.9
22.5°	735.4	692.9	584.0	444.3	277.3	151.6	125.8	134.1	167.9	201.9	206.9
25°	725.9	676.2	547.5	377.6	184.4	109.1	104.8	115.3	139.0	161.9	165.4
27.5°	711.8	655.1	507.9	305.2	117.7	89.8	91.4	98.6	108.9	118.5	120.6
30°	694.4	630.5	464.8	225.2	89.3	80.3	83.0	87.3	91.7	97.9	99.4
32.5°	676.7	605.5	419.7	154.8	78.1	75.2	77.9	80.3	84.0	88.3	89.1
35°	660.7	582.2	373.3	107.9	73.1	71.9	73.1	74.6	78.5	82.7	83.2
37.5°	649.1	563.1	325.0	85.3	70.2	69.0	69.6	70.2	74.6	80.8	81.6
40°	647.6	550.5	276.0	76.7	68.0	66.3	65.8	66.3	72.0	79.1	79.8
42.5°	662.7	551.2	228.1	73.1	66.3	64.3	62.5	63.4	68.5	74.0	74.5
45°	698.3	566.7	186.7	71.7	64.8	63.2	60.5	60.9	63.4	66.3	66.7
47.5°	761.4	600.5	155.0	70.7	63.4	62.1	58.7	57.4	57.6	59.2	59.2
50°	862.0	657.4	135.6	69.9	62.3	59.8	56.1	53.4	52.8	53.7	53.9
52.5°	1012.1	754.7	126.4	68.0	60.2	57.0	52.8	50.1	49.0	49.9	49.9
55°	1215.0	910.2	121.9	65.7	57.9	53.4	49.6	47.4	46.5	47.3	47.3
57.5°	1446.2	1112.0	129.4	62.3	54.7	49.6	47.0	45.5	44.7	45.5	45.6
60°	1720.9	1376.4	181.4	58.1	51.5	46.4	44.7	43.8	43.5	44.1	44.1
62.5°	2086.0	1728.0	280.7	54.7	47.9	43.2	42.8	42.3	42.0	42.6	42.6
65°	2480.2	2047.9	288.9	52.8	44.7	40.6	40.9	40.9	40.3	41.1	41.1
67.5°	2605.8	2020.2	161.3	50.3	41.1	37.9	38.7	38.7	38.5	39.3	39.0
68°	2579.0	1976.4	140.6	49.6	40.3	37.2	38.2	38.4	38.2	38.7	38.5
70°	2380.9	1735.0	92.4	46.0	37.5	35.0	36.3	36.7	36.3	37.2	37.0
72.5°	1965.4	1301.5	68.4	40.2	34.0	32.2	33.4	33.6	34.0	34.9	34.6
75°	1248.1	718.7	53.9	34.1	30.4	28.8	30.2	30.8	31.4	32.6	31.9
77.5°	341.9	218.2	43.7	29.0	26.2	25.5	26.4	27.3	27.7	29.3	28.1
80°	119.7	96.5	36.3	24.7	21.6	21.5	22.4	23.3	23.7	25.1	23.7
82.5°	72.8	63.1	29.0	19.4	17.1	16.9	18.0	18.9	19.4	19.4	18.3
85°	37.9	33.2	21.3	13.6	11.8	11.0	13.0	14.3	14.5	14.3	13.6
87.5°	21.3	18.9	11.3	6.5	5.3	5.5	6.8	8.4	9.2	8.9	8.4
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)