

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: P199172

Luminaire Tested: **XNV-AF-01-LED-U-SL2-8030-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199172  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24258)  
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-SL2-8030-800-HSS  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3253 lumens  
Efficiency: N/A  
Efficacy: 73.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Semi-Cutoff  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 44  
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

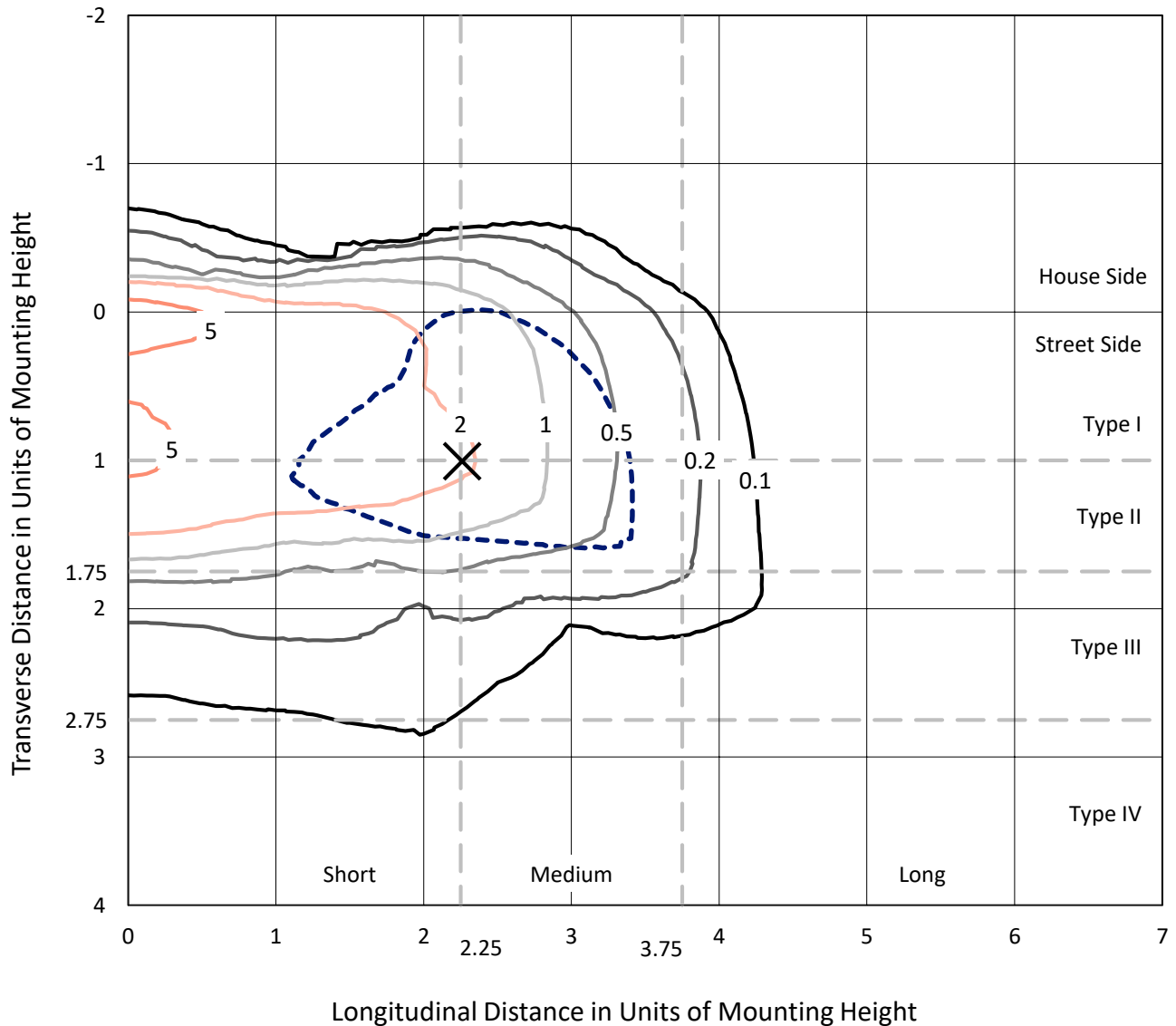


REPORT NUMBER: P199172

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-8030-800-HSS

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

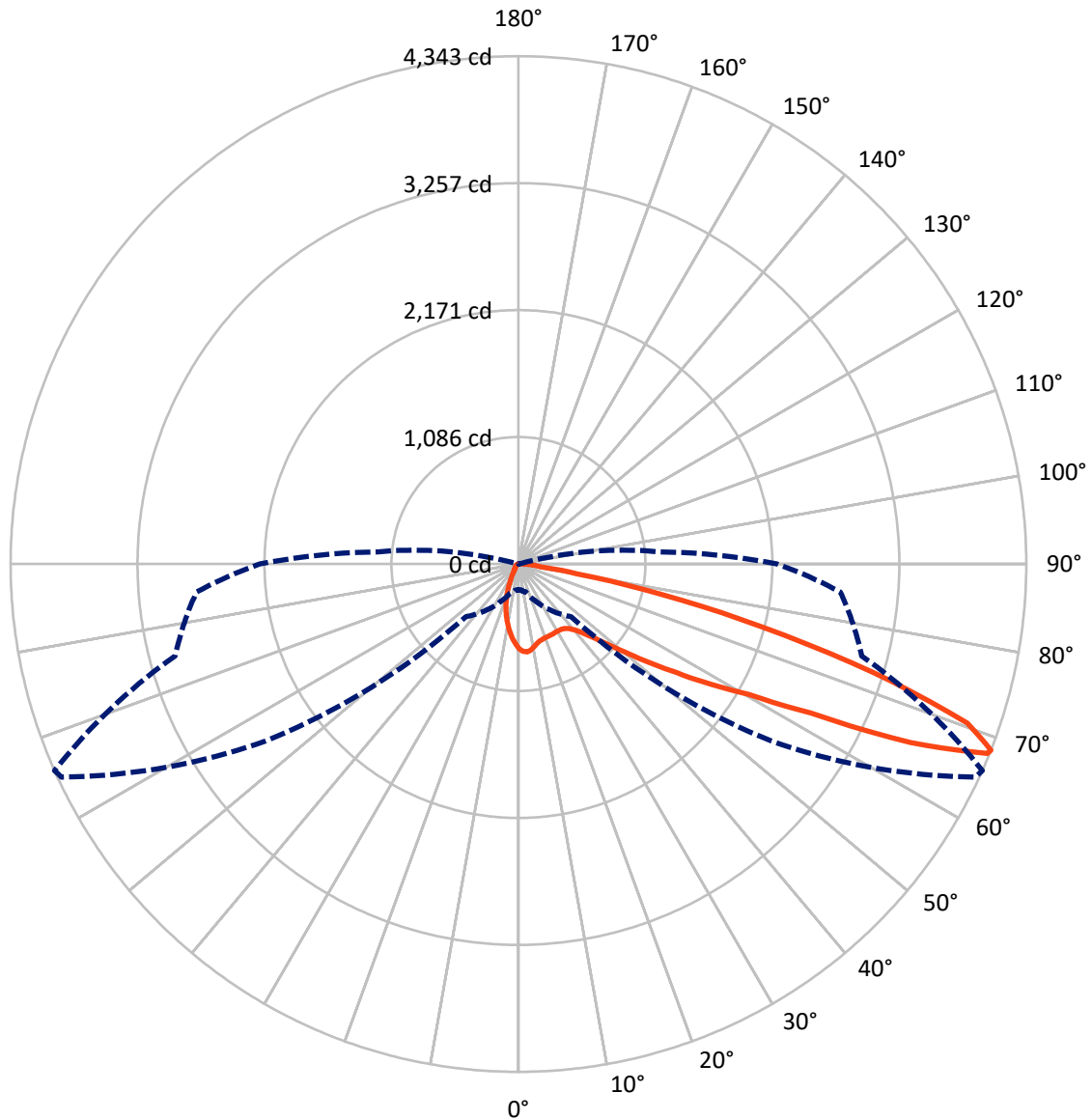


Based on 10 foot mounting height. Maximum calculated value = 7.2 fc  
 Type II - Medium - Semi-Cutoff

REPORT NUMBER: P199172

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-8030-800-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P199172

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-8030-800-HSS

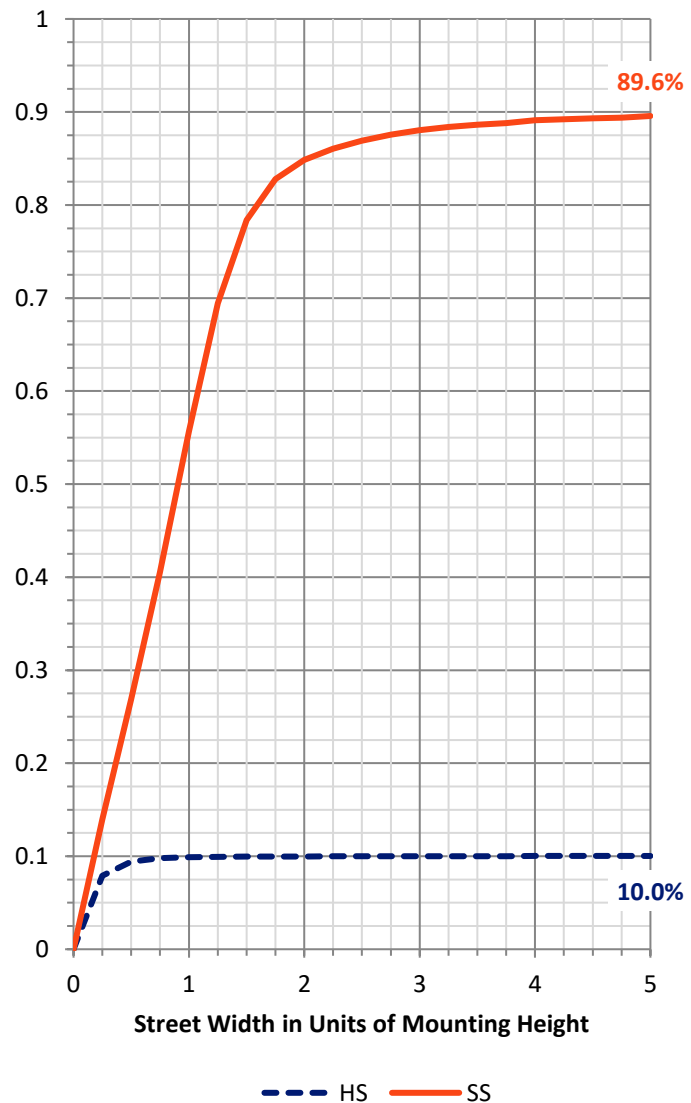
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	329.5	0.0	329.5
	% Fixture	10.1	0.0	10.1
<b>Street Side</b>	Lumens	2923.5	0.0	2923.5
	% Fixture	89.9	0.0	89.9
<b>Total</b>	Lumens	3253.0	0.0	3253.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.4	1.8
10°-20°	127.8	3.9
20°-30°	185.2	5.7
30°-40°	283.6	8.7
40°-50°	485.0	14.9
50°-60°	758.7	23.3
60°-70°	873.6	26.9
70°-80°	437.2	13.4
80°-90°	42.3	1.3
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°	3253.0	100.0
0°-180°	3253.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P199172

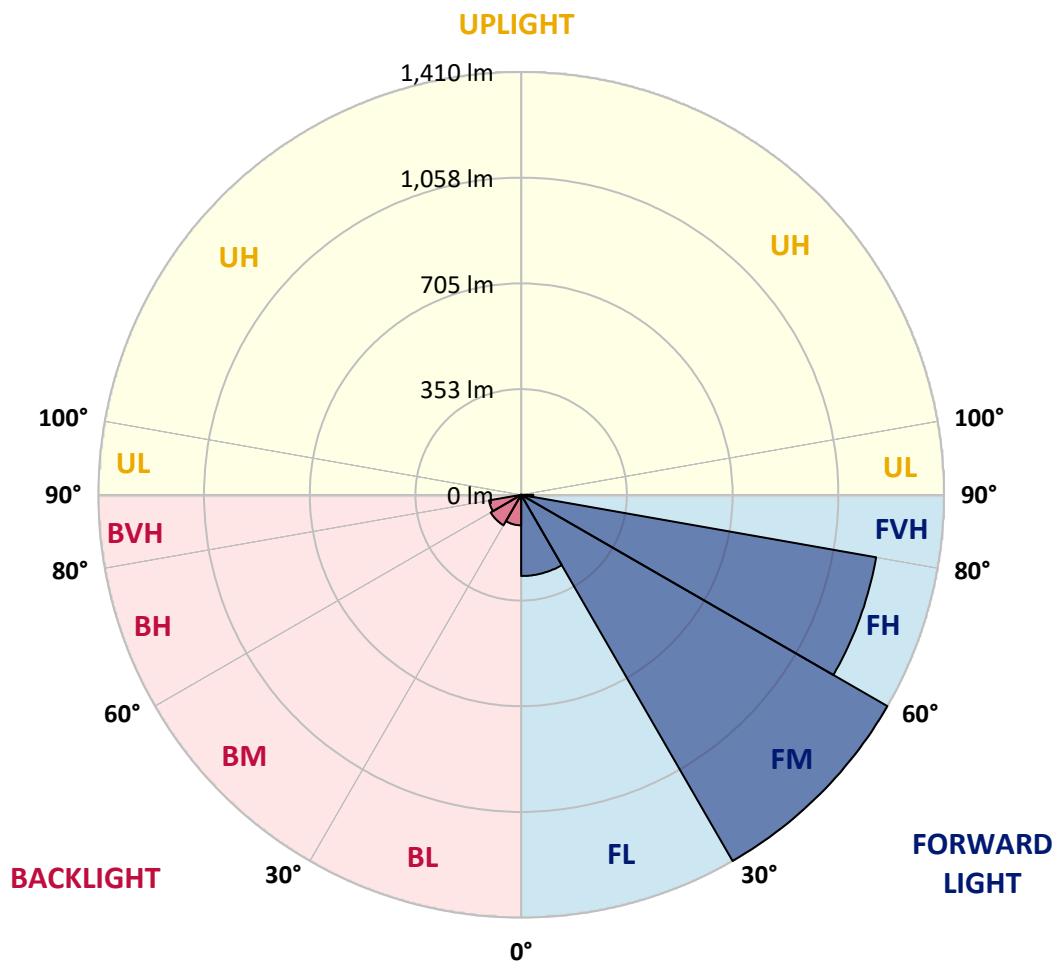
CATALOG NUMBER: XNV-AF-01-LED-U-SL2-8030-800-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	270.8	8.3			
FM	(30°-60°)	1410.0	43.3			
FH	(60°-80°)	1202.0	36.9			G1/1800
FVH	(80°-90°)	40.7	1.3			G1/100
BL	(0°-30°)	101.7	3.1	B0/110		
BM	(30°-60°)	117.3	3.6	B0/220		
BH	(60°-80°)	108.9	3.3	B0/110		G0/110
BVH	(80°-90°)	1.6	0.0			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 II Medium





REPORT NUMBER: P199172

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-8030-800-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	724.7	724.7	724.7	724.7	724.7	724.7	724.7	724.7	724.7	724.7	724.7
2.5°	762.3	762.8	762.5	763.3	762.8	759.0	754.9	746.2	747.0	735.7	723.2
5°	708.6	713.0	717.3	721.7	732.1	741.3	752.3	754.9	754.9	745.2	726.8
7.5°	654.0	654.3	659.1	665.0	679.0	695.9	721.4	744.4	744.9	747.5	727.3
10°	612.9	614.2	617.5	623.9	637.9	654.5	683.1	719.1	721.9	740.8	722.2
12.5°	581.0	582.5	586.1	593.5	606.2	623.4	653.5	694.6	698.4	734.4	720.7
15°	556.4	558.5	561.3	568.7	582.5	600.6	633.6	678.3	682.9	731.9	725.5
17.5°	546.2	546.2	546.0	551.1	564.9	583.3	617.7	669.6	675.5	733.9	733.7
20°	550.6	549.8	544.4	543.2	551.6	570.0	605.2	664.0	670.6	737.8	743.6
22.5°	573.6	572.0	560.0	550.1	547.5	559.8	596.8	660.1	668.0	745.7	756.9
25°	622.3	617.7	601.1	578.7	558.5	557.2	590.9	658.1	666.5	754.9	771.5
27.5°	685.7	684.4	657.8	627.7	588.9	565.6	589.1	656.6	665.0	761.5	783.2
30°	764.3	764.8	734.2	694.9	636.1	589.4	594.8	655.8	664.5	762.0	788.3
32.5°	845.5	846.0	820.5	778.4	700.7	630.3	610.6	659.4	667.3	760.0	788.1
35°	923.7	924.4	909.1	875.2	787.0	686.9	640.5	671.6	677.2	761.3	787.6
37.5°	1022.5	1025.6	1006.7	975.0	895.3	770.2	689.2	696.4	701.0	771.7	791.4
40°	1191.0	1187.0	1132.8	1079.2	1012.8	871.6	759.7	739.0	740.6	798.8	805.9
42.5°	1387.4	1382.3	1289.6	1197.2	1133.6	993.9	849.9	804.4	804.2	844.3	837.6
45°	1556.5	1553.4	1455.9	1332.5	1267.4	1129.0	961.0	898.6	895.6	922.9	895.3
47.5°	1676.5	1673.9	1600.1	1476.5	1422.2	1277.6	1099.6	1027.1	1020.7	1025.8	989.0
50°	1688.2	1685.4	1659.6	1580.2	1603.0	1495.7	1271.0	1195.4	1187.2	1179.3	1130.8
52.5°	1578.4	1578.2	1591.7	1586.6	1729.6	1776.3	1481.1	1403.5	1393.8	1373.6	1325.4
55°	1354.0	1352.7	1404.0	1478.6	1726.8	2065.9	1801.6	1651.2	1638.4	1598.1	1534.8
57.5°	989.3	982.7	1089.9	1248.0	1605.5	2192.6	2310.6	1958.9	1937.7	1809.8	1712.3
60°	546.2	548.8	686.7	873.9	1318.2	2167.6	2778.9	2317.7	2262.1	1992.4	1894.1
62.5°	306.2	312.6	415.2	567.9	840.4	1964.6	3030.2	2935.2	2801.1	2205.4	2123.9
65°	231.6	235.5	287.0	438.2	529.9	1372.9	3070.3	3798.6	3682.9	2528.2	2489.8
67.5°	218.1	221.1	246.4	363.4	482.6	712.0	2768.5	4309.4	4323.9	2968.4	2773.3
68°	219.6	223.4	248.7	349.6	481.9	636.9	2639.8	4311.9	4342.8	3039.4	2763.6
70°	201.7	202.8	263.0	343.0	467.1	501.8	1909.7	4016.4	4071.9	3123.9	2508.7
72.5°	77.1	77.4	118.0	297.0	489.3	504.6	962.0	3174.5	3177.3	2718.7	1955.9
75°	40.1	33.7	37.0	93.0	467.3	491.8	482.6	2167.6	2154.0	1838.7	1198.4
77.5°	27.6	23.5	24.8	32.2	194.3	491.6	348.6	1246.5	1243.6	782.2	341.9
80°	15.6	13.5	14.8	27.1	68.2	461.5	324.8	535.8	504.9	137.4	55.4
82.5°	7.9	6.6	7.9	22.7	42.4	290.4	315.9	210.2	187.2	32.7	36.0
85°	2.0	2.0	3.8	15.8	26.3	95.3	283.2	151.7	136.4	14.3	25.5
87.5°	0.5	0.3	1.5	5.9	9.4	20.7	157.1	84.5	72.8	7.4	14.8
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: P199172

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-8030-800-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	724.7	724.7	724.7	724.7	724.7	724.7	724.7	724.7	724.7	724.7	724.7
2.5°	718.1	710.9	696.9	681.1	669.8	657.6	650.4	641.7	635.1	629.2	633.6
5°	715.5	701.8	670.6	635.6	606.2	578.2	557.2	537.3	522.2	512.8	516.6
7.5°	708.9	688.5	637.9	583.3	535.3	490.1	453.3	420.3	394.8	381.0	385.4
10°	697.7	668.8	600.9	525.0	457.9	394.0	339.4	290.4	253.3	236.0	240.0
12.5°	689.5	651.4	562.6	468.9	380.5	289.8	217.3	161.1	132.3	114.9	116.4
15°	685.9	637.9	526.8	409.6	296.0	186.2	117.5	85.0	75.1	71.5	71.8
17.5°	686.4	627.2	492.9	348.1	210.7	107.0	72.0	64.9	63.3	62.6	62.6
20°	687.7	616.5	457.6	284.0	134.8	68.9	60.0	57.7	56.9	55.9	56.2
22.5°	691.5	608.3	422.1	219.6	83.0	56.2	53.1	51.1	49.8	48.3	48.5
25°	697.4	602.2	387.1	158.1	58.5	49.0	46.2	43.4	41.1	39.3	39.6
27.5°	701.0	593.5	349.9	107.8	48.5	42.9	39.1	35.2	32.7	31.2	30.9
30°	698.4	579.4	307.5	70.7	42.9	37.0	32.4	28.1	25.5	24.3	24.3
32.5°	691.5	561.3	260.7	51.6	38.1	31.9	26.3	22.5	20.7	19.9	20.2
35°	683.6	542.4	210.9	43.7	34.2	27.1	21.5	18.4	17.6	17.4	17.4
37.5°	679.3	526.1	163.2	39.6	30.6	22.5	17.6	15.8	15.1	15.1	15.1
40°	684.1	513.5	120.8	36.5	27.1	18.6	14.8	13.5	13.3	13.3	13.3
42.5°	704.8	509.2	88.4	34.0	23.5	15.6	12.8	11.7	11.5	11.7	11.7
45°	745.2	518.7	66.9	31.4	20.2	12.8	11.0	10.2	10.2	10.5	10.5
47.5°	813.6	542.9	54.9	28.9	16.9	10.7	9.4	8.9	8.9	9.2	9.2
50°	919.8	587.9	49.3	26.0	14.0	9.2	7.9	7.7	7.7	7.9	8.2
52.5°	1081.2	673.4	46.5	23.2	11.5	7.7	6.6	6.4	6.6	6.9	6.9
55°	1260.8	783.0	43.2	20.4	9.7	6.4	5.4	5.4	5.6	6.1	6.1
57.5°	1428.0	888.7	40.1	16.9	8.4	5.1	4.3	4.3	4.9	5.4	5.4
60°	1604.7	992.4	36.0	13.5	7.2	4.1	3.6	3.6	4.3	4.9	5.1
62.5°	1823.1	1112.9	30.6	10.7	5.6	3.1	2.6	3.3	4.1	4.9	4.9
65°	2138.7	1262.8	24.0	8.4	4.3	2.3	2.0	3.1	3.8	4.6	4.9
67.5°	2253.4	1243.6	18.1	6.9	3.3	1.8	1.8	2.8	3.8	4.6	4.6
68°	2211.5	1201.8	17.4	6.6	3.1	1.8	1.8	2.8	3.8	4.6	4.6
70°	1927.0	982.4	14.3	5.1	2.6	1.5	1.5	2.6	3.8	4.3	4.6
72.5°	1442.8	652.7	12.3	3.3	2.3	1.5	1.3	2.6	3.6	4.3	4.3
75°	827.7	270.9	10.5	2.6	2.0	1.3	1.3	2.3	3.6	4.3	4.3
77.5°	233.9	63.3	8.4	2.0	1.8	1.3	1.0	2.3	3.3	4.1	4.1
80°	42.9	18.9	6.6	1.8	1.5	1.3	1.0	2.3	3.3	4.1	4.1
82.5°	28.3	8.9	4.9	1.8	1.5	1.3	1.0	2.0	3.1	3.8	3.8
85°	21.2	6.4	3.1	1.8	1.5	1.3	1.0	2.0	3.1	3.8	3.8
87.5°	11.7	2.8	2.3	2.0	1.8	1.3	1.0	1.8	2.8	3.6	3.6
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)