

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: P199170

Luminaire Tested: **XNV-AF-01-LED-U-SL2-8030-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199170  
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-SL2-8030-600-HSS  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 3000K, 615mA 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: 2652 lumens  
Efficiency: N/A  
Efficacy: 78.0 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): 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

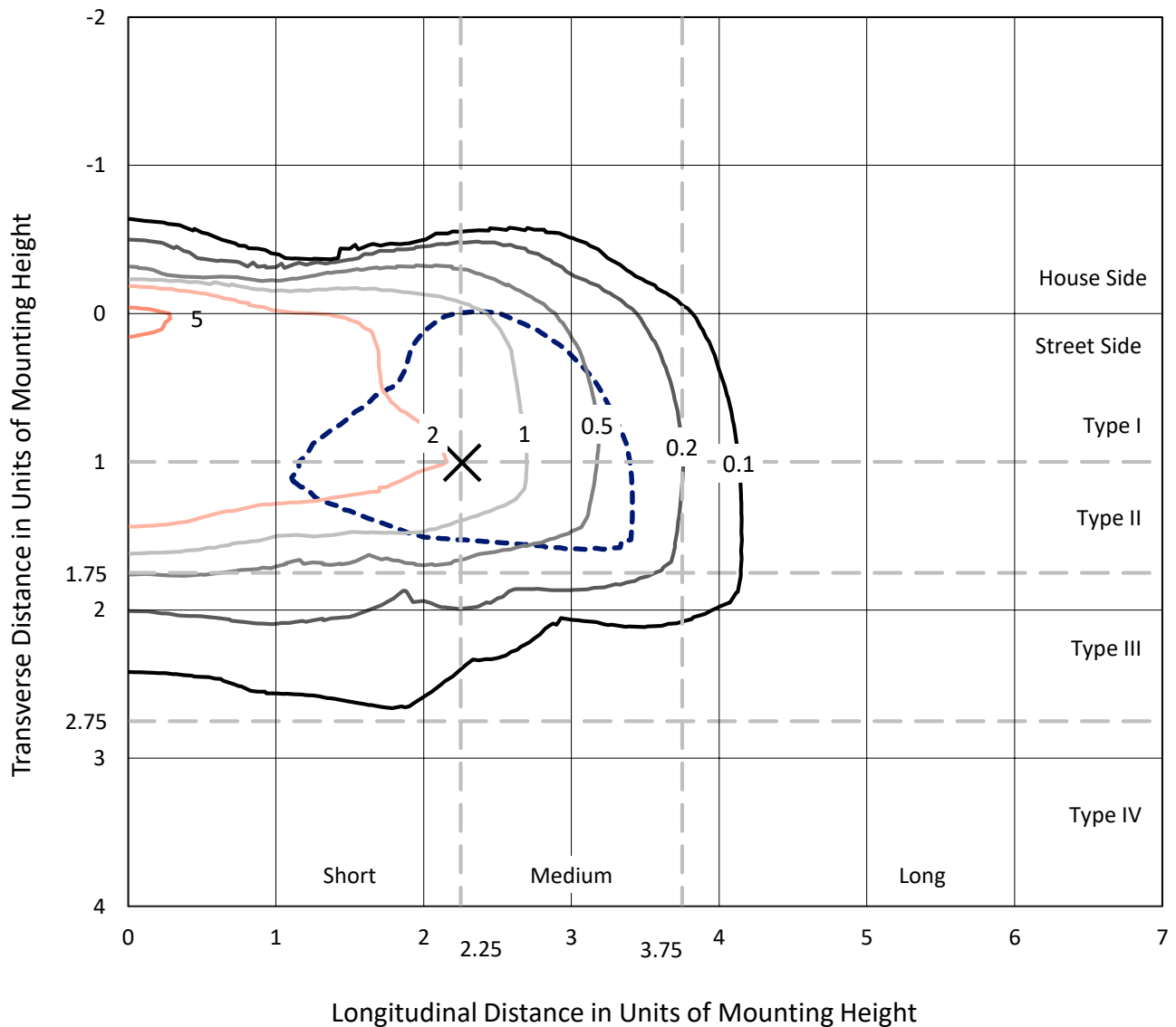


REPORT NUMBER: P199170

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-8030-600-HSS

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

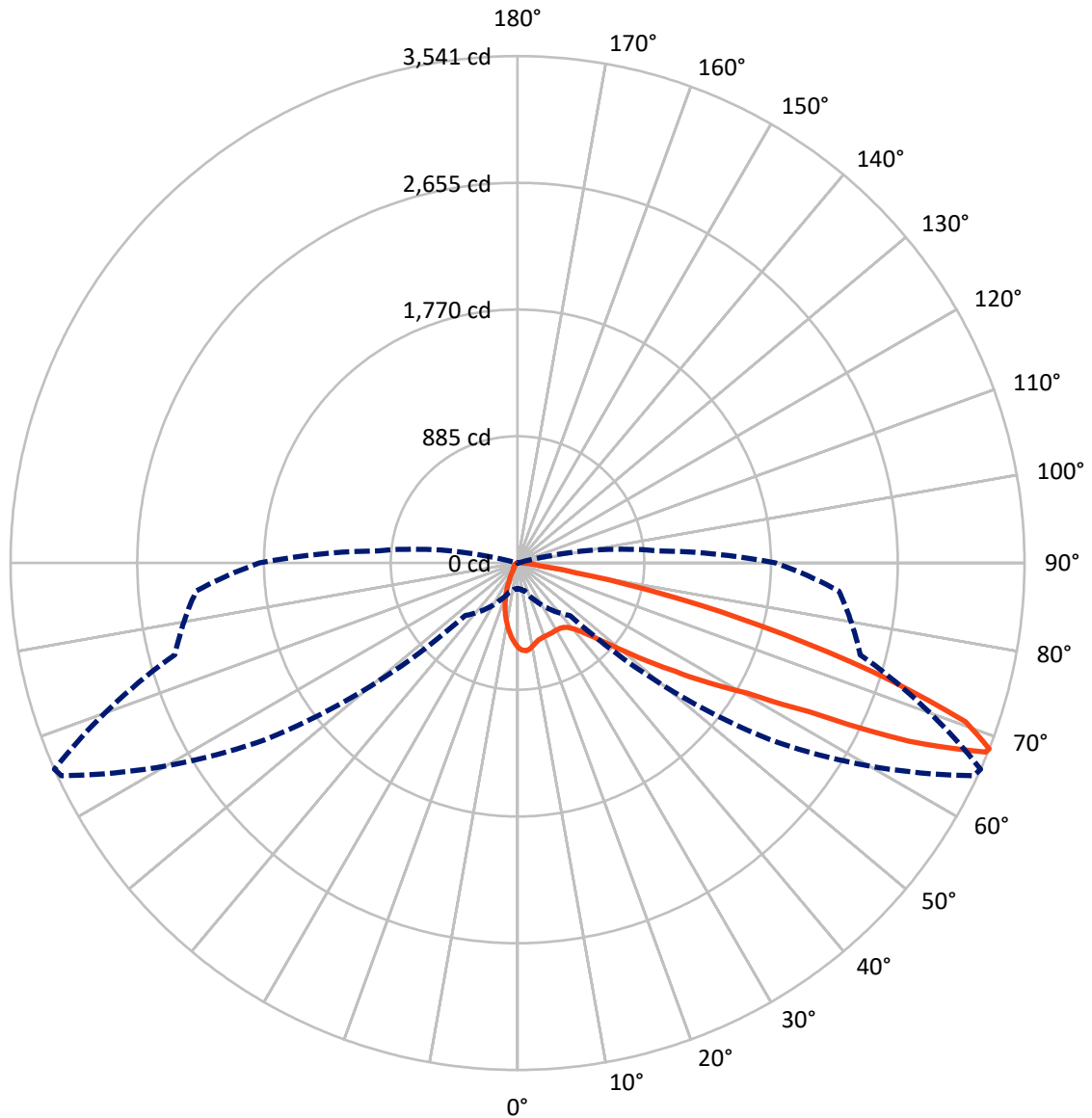


Based on 10 foot mounting height. Maximum calculated value = 5.9 fc  
 Type II - Medium - Semi-Cutoff

REPORT NUMBER: P199170

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-8030-600-HSS

### Luminous Intensity Polar Plot



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



REPORT NUMBER: P199170

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-8030-600-HSS

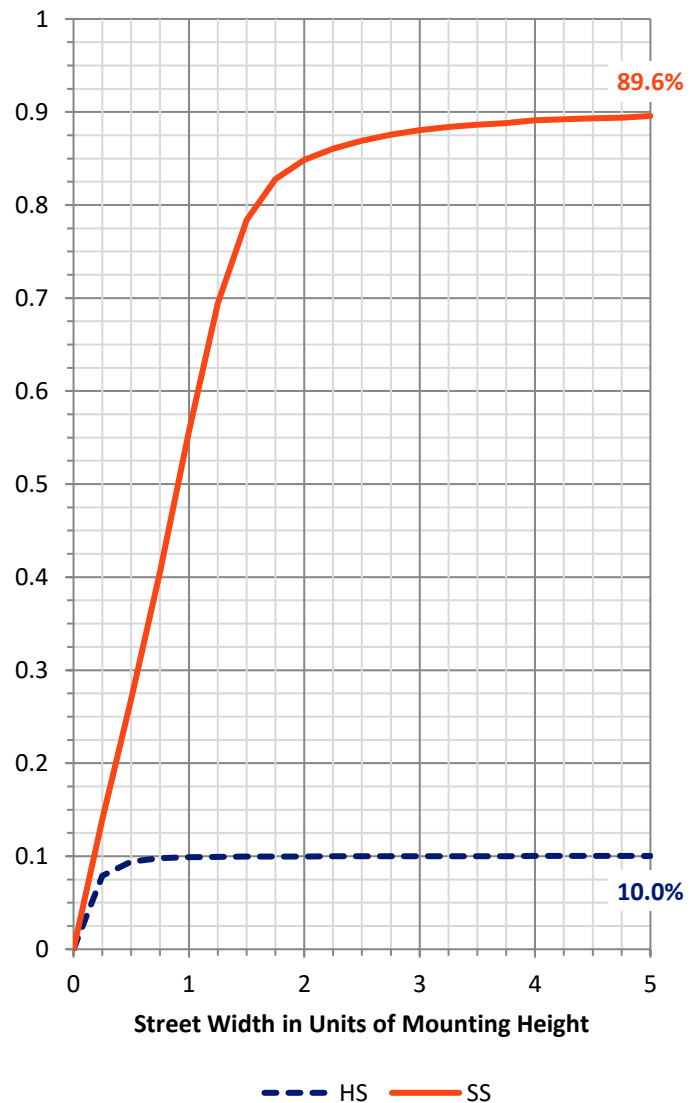
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	268.6	0.0	268.6
	% Fixture	10.1	0.0	10.1
<b>Street Side</b>	Lumens	2383.4	0.0	2383.4
	% Fixture	89.9	0.0	89.9
<b>Total</b>	Lumens	2652.0	0.0	2652.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.4	1.8
10°-20°	104.2	3.9
20°-30°	151.0	5.7
30°-40°	231.2	8.7
40°-50°	395.4	14.9
50°-60°	618.6	23.3
60°-70°	712.2	26.9
70°-80°	356.4	13.4
80°-90°	34.5	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°	2652.0	100.0
0°-180°	2652.0	100.0



REPORT NUMBER: P199170

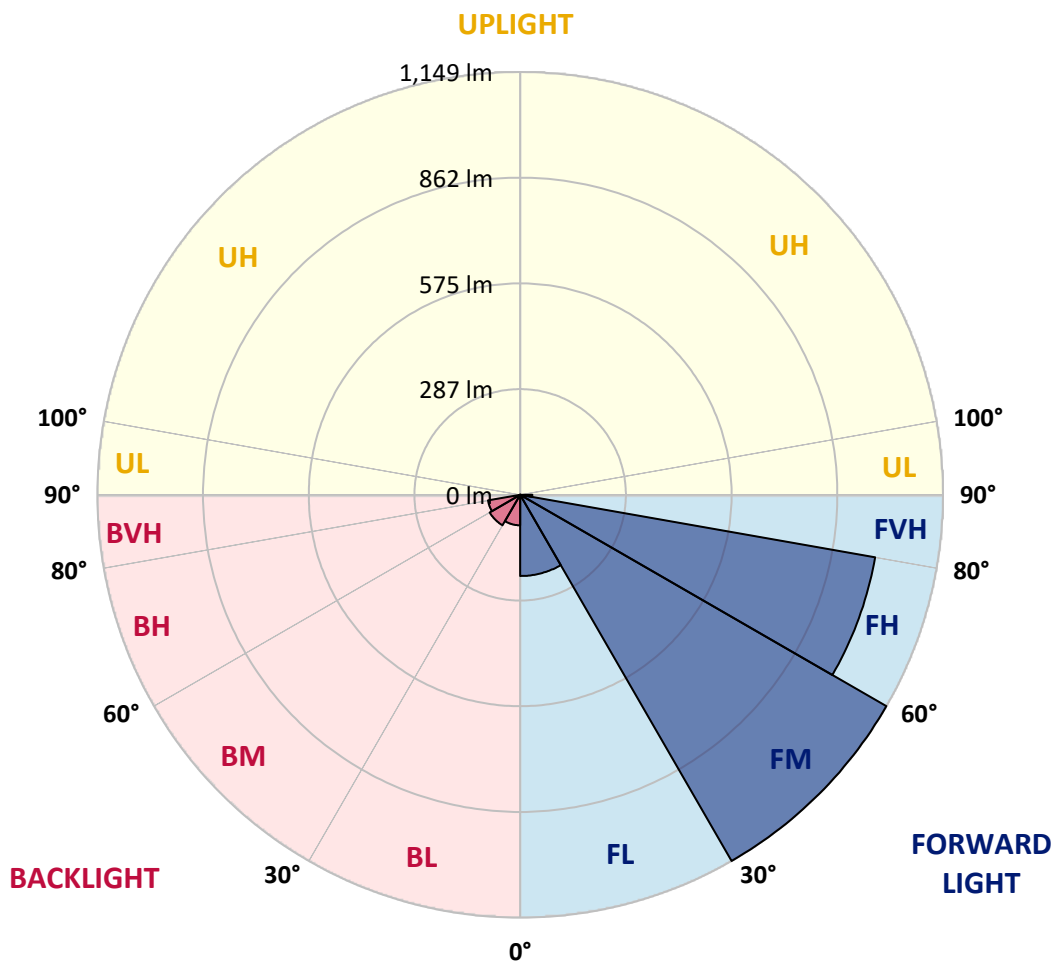
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	220.8	8.3			
FM (30°-60°)	1149.5	43.3			
FH (60°-80°)	979.9	36.9			G1/1800
FVH (80°-90°)	33.2	1.3			G1/100
BL (0°-30°)	82.9	3.1	B0/110		
BM (30°-60°)	95.7	3.6	B0/220		
BH (60°-80°)	88.7	3.3	B0/110		G0/110
BVH (80°-90°)	1.3	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: P199170

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-8030-600-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	590.8	590.8	590.8	590.8	590.8	590.8	590.8	590.8	590.8	590.8	590.8
2.5°	621.4	621.9	621.7	622.3	621.9	618.7	615.4	608.3	609.0	599.8	589.6
5°	577.7	581.3	584.8	588.3	596.9	604.4	613.3	615.4	615.4	607.5	592.5
7.5°	533.2	533.4	537.3	542.1	553.6	567.3	588.1	606.9	607.3	609.4	592.9
10°	499.7	500.7	503.4	508.6	520.1	533.6	556.9	586.3	588.6	604.0	588.8
12.5°	473.6	474.9	477.8	483.8	494.2	508.2	532.8	566.3	569.4	598.8	587.5
15°	453.6	455.3	457.6	463.6	474.9	489.7	516.5	553.0	556.7	596.7	591.5
17.5°	445.3	445.3	445.1	449.3	460.5	475.5	503.6	545.9	550.7	598.3	598.1
20°	448.9	448.2	443.9	442.8	449.7	464.7	493.4	541.3	546.7	601.5	606.2
22.5°	467.6	466.3	456.6	448.4	446.4	456.4	486.5	538.2	544.6	607.9	617.1
25°	507.4	503.6	490.1	471.8	455.3	454.3	481.7	536.5	543.4	615.4	628.9
27.5°	559.0	557.9	536.3	511.7	480.1	461.1	480.3	535.3	542.1	620.8	638.5
30°	623.1	623.5	598.5	566.5	518.6	480.5	484.9	534.6	541.7	621.2	642.7
32.5°	689.3	689.7	668.9	634.6	571.3	513.8	497.8	537.5	544.0	619.6	642.5
35°	753.0	753.6	741.2	713.5	641.6	560.0	522.1	547.5	552.1	620.6	642.1
37.5°	833.6	836.1	820.7	794.9	729.9	627.9	561.9	567.7	571.5	629.1	645.2
40°	971.0	967.7	923.5	879.8	825.7	710.5	619.4	602.5	603.7	651.2	657.0
42.5°	1131.1	1126.9	1051.4	976.0	924.2	810.3	692.9	655.8	655.6	688.3	682.9
45°	1268.9	1266.4	1186.9	1086.3	1033.2	920.4	783.4	732.6	730.1	752.4	729.9
47.5°	1366.8	1364.7	1304.5	1203.7	1159.4	1041.6	896.5	837.3	832.1	836.3	806.3
50°	1376.3	1374.0	1353.0	1288.3	1306.8	1219.4	1036.2	974.5	967.9	961.4	921.9
52.5°	1286.8	1286.6	1297.6	1293.5	1410.1	1448.2	1207.5	1144.2	1136.3	1119.8	1080.5
55°	1103.8	1102.8	1144.6	1205.4	1407.8	1684.2	1468.8	1346.2	1335.7	1302.8	1251.2
57.5°	806.5	801.1	888.6	1017.4	1308.9	1787.5	1883.7	1597.0	1579.7	1475.4	1395.9
60°	445.3	447.4	559.8	712.4	1074.7	1767.1	2265.5	1889.5	1844.1	1624.3	1544.1
62.5°	249.6	254.8	338.5	463.0	685.2	1601.6	2470.4	2392.9	2283.6	1797.9	1731.5
65°	188.8	192.0	234.0	357.3	432.0	1119.2	2503.1	3096.8	3002.5	2061.1	2029.8
67.5°	177.8	180.3	200.9	296.3	393.5	580.4	2257.0	3513.2	3525.1	2420.0	2260.9
68°	179.0	182.2	202.8	285.0	392.9	519.2	2152.1	3515.3	3540.5	2477.9	2253.0
70°	164.5	165.3	214.4	279.6	380.8	409.1	1556.8	3274.4	3319.6	2546.8	2045.2
72.5°	62.9	63.1	96.2	242.1	398.9	411.4	784.2	2588.0	2590.3	2216.4	1594.5
75°	32.7	27.5	30.2	75.8	381.0	401.0	393.5	1767.1	1756.1	1499.0	977.0
77.5°	22.5	19.2	20.2	26.2	158.4	400.8	284.2	1016.2	1013.9	637.7	278.8
80°	12.7	11.0	12.1	22.1	55.6	376.2	264.8	436.8	411.6	112.0	45.2
82.5°	6.5	5.4	6.5	18.5	34.6	236.7	257.5	171.3	152.6	26.6	29.4
85°	1.7	1.7	3.1	12.9	21.4	77.7	230.9	123.7	111.2	11.7	20.8
87.5°	0.4	0.2	1.2	4.8	7.7	16.9	128.0	68.9	59.3	6.0	12.1
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: P199170

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-8030-600-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	590.8	590.8	590.8	590.8	590.8	590.8	590.8	590.8	590.8	590.8	590.8
2.5°	585.4	579.6	568.1	555.2	546.1	536.1	530.3	523.2	517.8	513.0	516.5
5°	583.3	572.1	546.7	518.2	494.2	471.3	454.3	438.0	425.7	418.0	421.2
7.5°	577.9	561.3	520.1	475.5	436.4	399.5	369.5	342.7	321.9	310.6	314.2
10°	568.8	545.2	489.9	428.0	373.3	321.2	276.7	236.7	206.5	192.4	195.7
12.5°	562.1	531.1	458.6	382.2	310.2	236.3	177.2	131.4	107.8	93.7	94.9
15°	559.2	520.1	429.5	333.9	241.3	151.8	95.8	69.3	61.2	58.3	58.5
17.5°	559.6	511.3	401.8	283.8	171.8	87.2	58.7	52.9	51.6	51.0	51.0
20°	560.7	502.6	373.1	231.5	109.9	56.2	48.9	47.1	46.4	45.6	45.8
22.5°	563.8	495.9	344.1	179.0	67.7	45.8	43.3	41.6	40.6	39.3	39.6
25°	568.6	490.9	315.6	128.9	47.7	40.0	37.7	35.4	33.5	32.1	32.3
27.5°	571.5	483.8	285.2	87.9	39.6	35.0	31.9	28.7	26.6	25.4	25.2
30°	569.4	472.4	250.7	57.7	35.0	30.2	26.4	22.9	20.8	19.8	19.8
32.5°	563.8	457.6	212.6	42.1	31.0	26.0	21.4	18.3	16.9	16.2	16.4
35°	557.3	442.2	172.0	35.6	27.9	22.1	17.5	15.0	14.4	14.2	14.2
37.5°	553.8	428.9	133.0	32.3	25.0	18.3	14.4	12.9	12.3	12.3	12.3
40°	557.7	418.7	98.5	29.8	22.1	15.2	12.1	11.0	10.8	10.8	10.8
42.5°	574.6	415.1	72.0	27.7	19.2	12.7	10.4	9.6	9.4	9.6	9.6
45°	607.5	422.8	54.5	25.6	16.4	10.4	9.0	8.3	8.3	8.5	8.5
47.5°	663.3	442.6	44.8	23.5	13.7	8.7	7.7	7.3	7.3	7.5	7.5
50°	749.9	479.3	40.2	21.2	11.5	7.5	6.5	6.2	6.2	6.5	6.7
52.5°	881.5	549.0	37.9	18.9	9.4	6.2	5.4	5.2	5.4	5.6	5.6
55°	1027.8	638.3	35.2	16.7	7.9	5.2	4.4	4.4	4.6	5.0	5.0
57.5°	1164.2	724.5	32.7	13.7	6.9	4.2	3.5	3.5	4.0	4.4	4.4
60°	1308.3	809.0	29.4	11.0	5.8	3.3	2.9	2.9	3.5	4.0	4.2
62.5°	1486.3	907.3	25.0	8.7	4.6	2.5	2.1	2.7	3.3	4.0	4.0
65°	1743.6	1029.5	19.6	6.9	3.5	1.9	1.7	2.5	3.1	3.7	4.0
67.5°	1837.1	1013.9	14.8	5.6	2.7	1.5	1.5	2.3	3.1	3.7	3.7
68°	1802.9	979.7	14.2	5.4	2.5	1.5	1.5	2.3	3.1	3.7	3.7
70°	1571.0	800.9	11.7	4.2	2.1	1.2	1.2	2.1	3.1	3.5	3.7
72.5°	1176.3	532.1	10.0	2.7	1.9	1.2	1.0	2.1	2.9	3.5	3.5
75°	674.7	220.9	8.5	2.1	1.7	1.0	1.0	1.9	2.9	3.5	3.5
77.5°	190.7	51.6	6.9	1.7	1.5	1.0	0.8	1.9	2.7	3.3	3.3
80°	35.0	15.4	5.4	1.5	1.2	1.0	0.8	1.9	2.7	3.3	3.3
82.5°	23.1	7.3	4.0	1.5	1.2	1.0	0.8	1.7	2.5	3.1	3.1
85°	17.3	5.2	2.5	1.5	1.2	1.0	0.8	1.7	2.5	3.1	3.1
87.5°	9.6	2.3	1.9	1.7	1.5	1.0	0.8	1.5	2.3	2.9	2.9
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)