

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: P271235

Luminaire Tested: **XNV-AF-01-LED-U-SL3-7027-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271235  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24263)  
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-SL3-7027-600-HSS  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2939.5 lumens  
Efficiency: N/A  
Efficacy: 86.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - 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

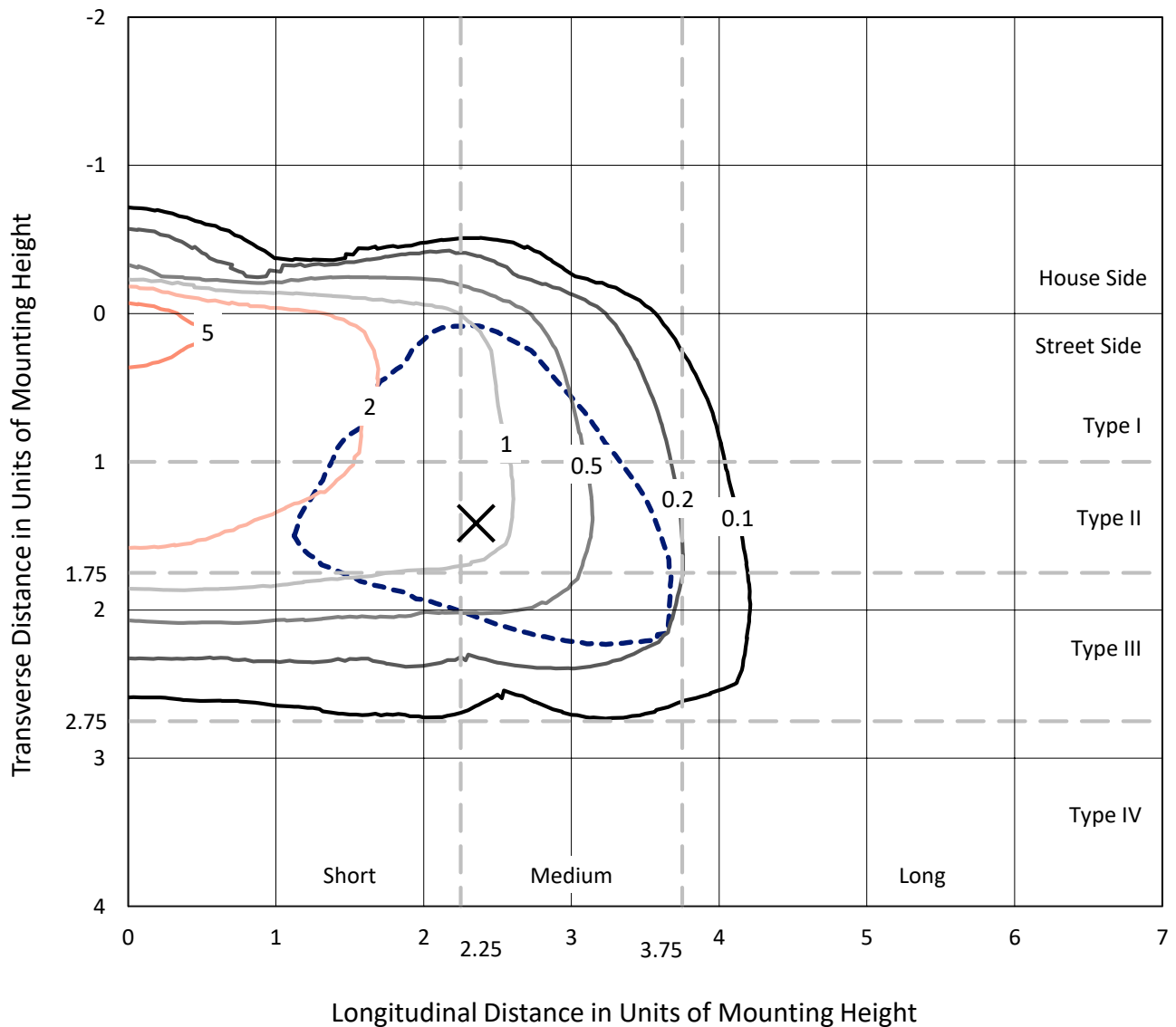


REPORT NUMBER: P271235

CATALOG NUMBER: XNV-AF-01-LED-U-SL3-7027-600-HSS

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

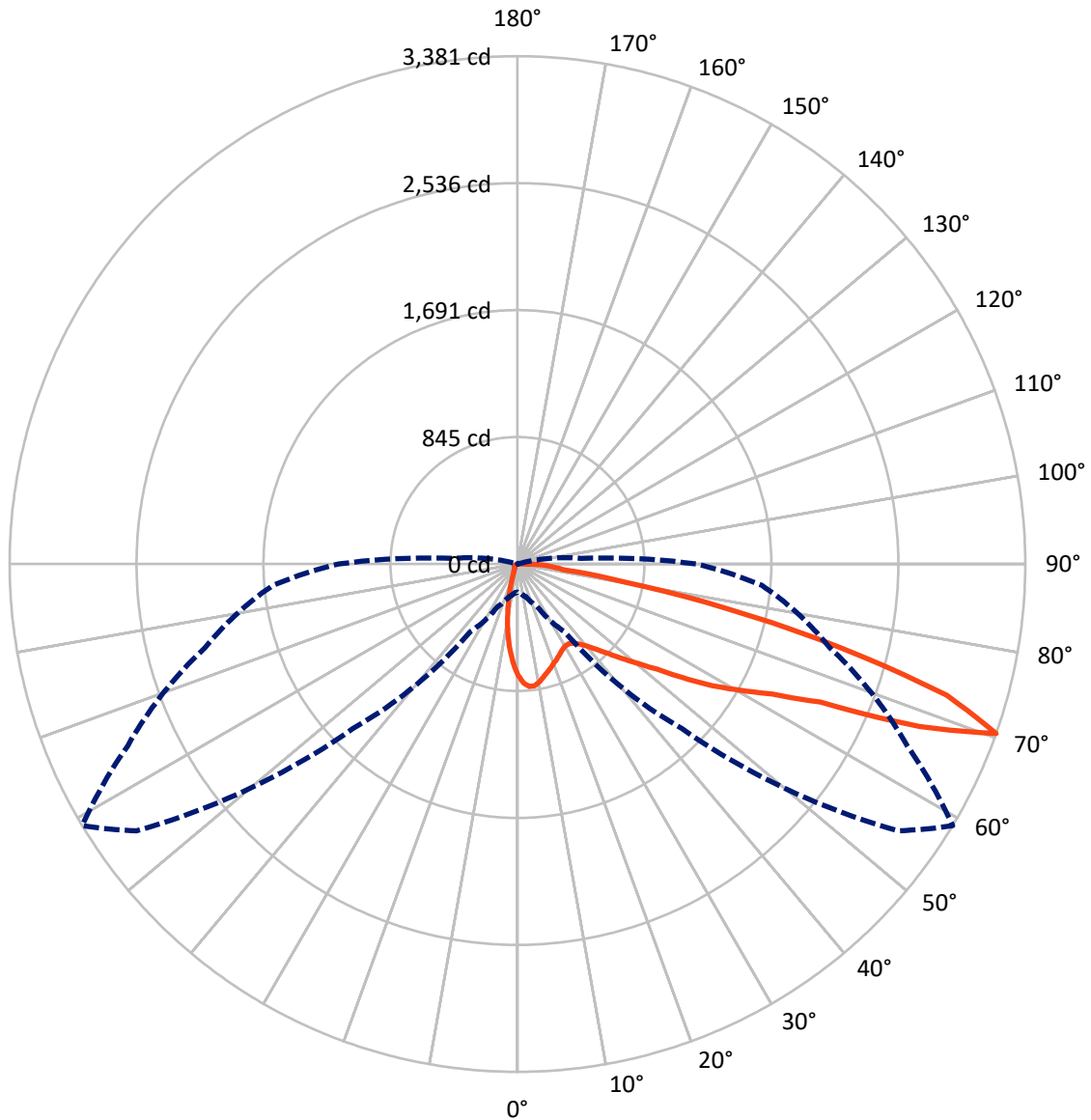


Based on 10 foot mounting height. Maximum calculated value = 7.9 fc  
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P271235

CATALOG NUMBER: XNV-AF-01-LED-U-SL3-7027-600-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P271235

CATALOG NUMBER: XNV-AF-01-LED-U-SL3-7027-600-HSS

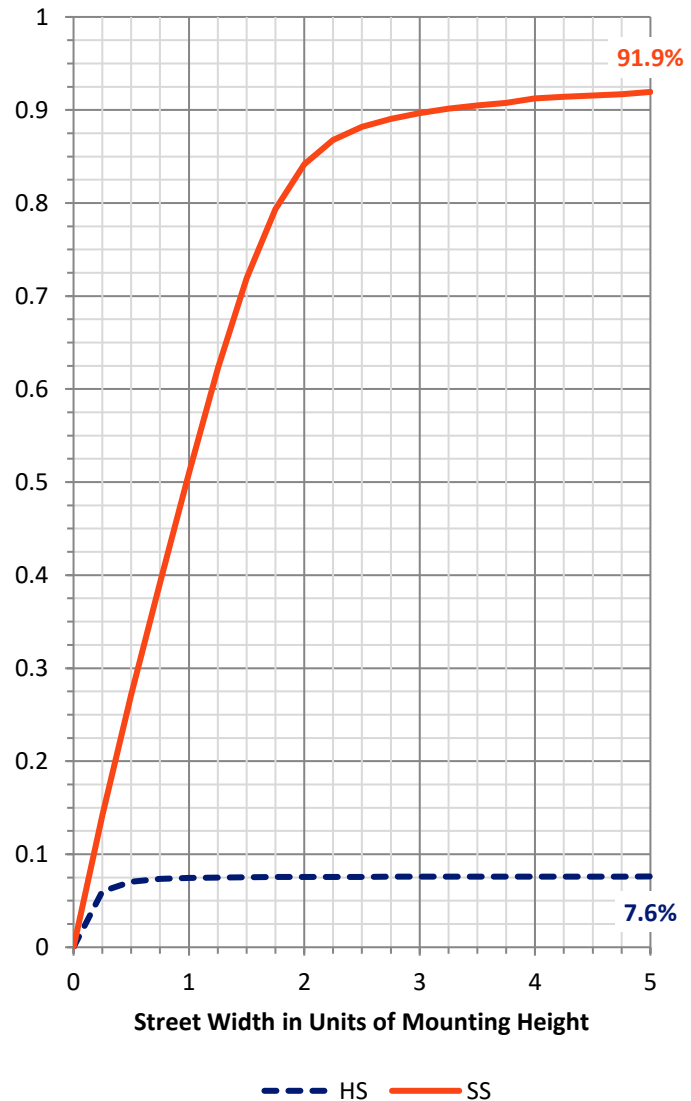
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	225.9	0.0	225.9
	% Fixture	7.7	0.0	7.7
<b>Street Side</b>	Lumens	2713.5	0.0	2713.5
	% Fixture	92.3	0.0	92.3
<b>Total</b>	Lumens	2939.5	0.0	2939.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.1	2.1
10°-20°	128.2	4.4
20°-30°	173.5	5.9
30°-40°	250.4	8.5
40°-50°	415.9	14.1
50°-60°	636.2	21.6
60°-70°	791.3	26.9
70°-80°	437.4	14.9
80°-90°	45.3	1.5
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°	2939.5	100.0
0°-180°	2939.5	100.0



REPORT NUMBER: P271235

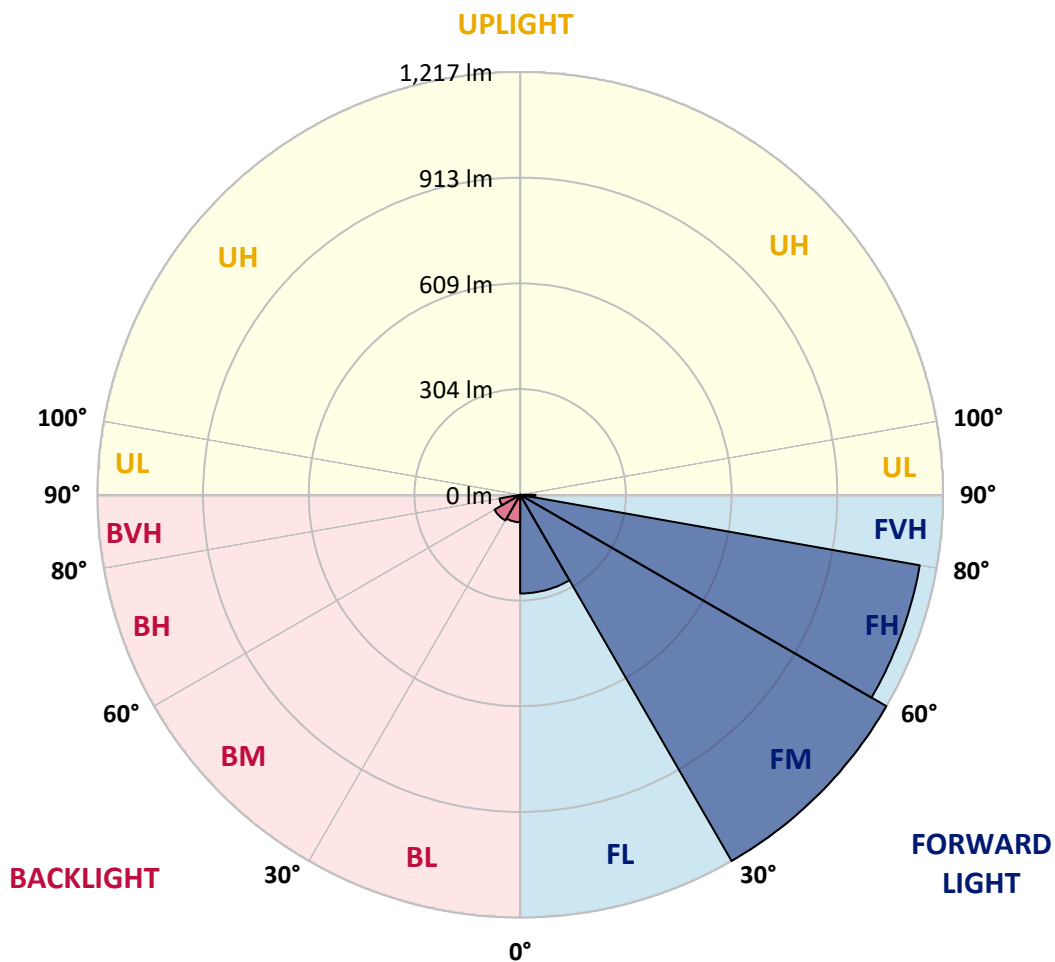
CATALOG NUMBER: XNV-AF-01-LED-U-SL3-7027-600-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	284.1	9.7			
FM	(30°-60°)	1217.3	41.4			
FH	(60°-80°)	1168.1	39.7			G1/1800
FVH	(80°-90°)	44.0	1.5			G1/100
BL	(0°-30°)	78.7	2.7	B0/110		
BM	(30°-60°)	85.3	2.9	B0/220		
BH	(60°-80°)	60.6	2.1	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 III Medium





REPORT NUMBER: P271235

CATALOG NUMBER: XNV-AF-01-LED-U-SL3-7027-600-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	743.3	743.3	743.3	743.3	743.3	743.3	743.3	743.3	743.3	743.3	743.3
2.5°	840.3	838.8	833.4	832.2	826.0	813.5	799.2	793.5	781.6	763.0	742.4
5°	854.2	854.8	855.2	852.9	852.0	841.7	825.8	819.0	803.2	772.6	734.9
7.5°	801.8	803.7	809.2	811.6	822.3	826.3	822.8	818.4	806.0	769.8	716.8
10°	746.6	749.9	756.0	760.0	773.0	783.6	797.2	798.4	795.5	761.0	696.7
12.5°	699.2	702.2	708.9	716.8	730.2	743.9	764.2	771.3	780.1	755.2	682.4
15°	658.4	659.3	665.7	675.6	693.2	712.0	736.0	746.4	763.6	753.0	671.3
17.5°	622.6	622.9	627.0	636.2	657.5	682.4	710.3	724.0	746.0	749.9	661.5
20°	599.2	598.9	599.2	604.0	622.9	652.3	686.3	700.7	728.9	746.2	651.5
22.5°	591.2	590.0	584.9	583.2	595.1	621.1	661.7	680.6	713.7	745.1	644.2
25°	601.0	600.2	589.4	579.1	580.3	596.6	636.7	659.7	701.7	749.0	642.4
27.5°	632.4	631.1	614.5	594.5	581.8	584.7	618.0	642.2	692.1	758.8	644.9
30°	673.6	673.9	656.1	632.0	602.3	585.9	608.1	630.9	685.6	773.5	650.2
32.5°	719.6	719.4	706.6	678.8	640.9	606.3	612.5	631.8	686.6	795.0	660.3
35°	767.1	764.5	760.3	735.7	691.4	642.0	632.6	646.8	695.8	823.3	677.7
37.5°	821.8	821.0	825.2	799.2	753.9	694.5	668.1	677.7	719.4	865.2	705.6
40°	908.9	904.1	906.1	870.7	824.5	765.3	717.7	720.3	756.8	920.8	749.7
42.5°	1075.0	1055.2	1018.3	952.3	902.1	843.8	782.8	778.7	809.8	987.9	807.8
45°	1273.4	1250.9	1157.6	1042.0	979.7	927.9	863.0	851.8	874.9	1067.9	882.8
47.5°	1439.2	1414.8	1291.0	1135.7	1058.7	1014.9	951.9	938.6	953.1	1160.9	972.9
50°	1495.7	1482.2	1373.5	1213.9	1138.2	1112.6	1063.6	1041.3	1044.9	1261.1	1078.0
52.5°	1469.7	1465.0	1392.4	1267.2	1211.9	1220.3	1185.8	1162.3	1158.5	1370.6	1194.0
55°	1415.0	1412.8	1377.3	1297.1	1276.9	1319.0	1357.1	1336.9	1299.2	1487.1	1290.1
57.5°	1336.7	1345.1	1370.6	1354.3	1356.7	1423.2	1516.2	1526.7	1470.4	1579.7	1361.3
60°	1127.6	1150.2	1267.1	1415.6	1529.5	1596.6	1686.8	1706.4	1615.4	1643.2	1443.5
62.5°	833.5	866.0	1032.4	1305.4	1624.6	1926.3	1913.7	1905.0	1753.9	1728.1	1593.2
65°	489.7	527.6	668.3	1020.0	1481.0	2138.3	2337.2	2217.5	1964.8	1904.5	1831.6
67.5°	243.9	244.2	307.8	538.4	1094.6	1990.5	2955.5	2886.3	2413.0	2164.7	1925.6
70°	187.6	192.6	227.7	312.9	553.4	1550.2	3097.1	3381.2	2863.6	2153.1	1633.8
72.5°	159.0	162.4	202.7	272.2	413.8	851.1	2681.3	2988.8	2732.6	1819.2	1204.3
75°	114.4	117.0	179.4	247.0	381.1	422.3	1839.2	2216.6	2050.3	1279.7	662.8
77.5°	28.3	28.1	62.5	200.4	340.8	351.6	1055.2	1421.4	1176.4	524.0	170.3
80°	12.7	12.1	14.3	42.1	317.1	332.0	464.2	717.7	451.3	84.9	52.1
82.5°	8.9	8.4	8.9	15.5	106.0	307.9	280.5	311.2	165.2	29.0	22.2
85°	2.9	2.6	4.9	13.0	29.7	177.7	273.7	232.4	122.9	12.4	14.8
87.5°	0.4	0.4	1.7	7.0	8.7	59.2	160.5	160.9	55.2	7.4	6.6
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: P271235

CATALOG NUMBER: XNV-AF-01-LED-U-SL3-7027-600-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	743.3	743.3	743.3	743.3	743.3	743.3	743.3	743.3	743.3	743.3	743.3
2.5°	731.9	719.0	700.5	682.2	665.5	648.3	634.7	628.3	625.3	621.4	612.7
5°	715.1	691.4	651.0	611.3	574.3	538.9	508.5	491.2	472.6	471.7	462.5
7.5°	688.1	654.3	590.7	529.1	472.6	418.4	371.9	341.7	321.1	308.2	299.3
10°	657.9	614.7	530.4	443.8	366.8	294.5	234.5	195.7	171.8	159.9	153.0
12.5°	633.9	579.6	471.0	361.8	265.4	182.4	126.8	98.5	85.8	80.9	78.7
15°	613.4	547.4	415.3	288.7	177.1	104.9	73.4	64.0	62.2	62.2	61.9
17.5°	592.5	516.4	361.2	216.9	111.5	68.7	57.9	56.6	56.8	57.4	57.4
20°	572.8	486.9	309.1	154.6	73.2	54.9	52.6	52.1	52.8	53.7	53.4
22.5°	556.8	461.0	260.2	106.2	56.4	49.9	48.4	47.7	48.1	48.8	48.6
25°	545.5	438.8	215.6	74.1	49.0	45.5	43.7	42.8	42.4	42.8	42.6
27.5°	538.7	420.1	173.5	55.7	43.8	41.1	38.7	37.0	35.9	35.9	35.5
30°	534.2	402.7	136.0	46.2	39.6	36.7	33.4	31.0	29.3	28.8	28.6
32.5°	534.0	387.6	101.6	40.9	35.8	32.2	28.3	25.3	23.3	22.8	22.5
35°	539.5	375.4	74.6	36.8	32.2	27.9	23.7	20.4	18.7	18.7	18.4
37.5°	554.0	368.3	56.6	33.6	29.3	24.4	19.9	16.9	15.4	15.7	15.7
40°	580.8	367.0	46.2	31.4	26.8	21.3	16.2	13.7	13.0	13.7	13.7
42.5°	621.7	374.1	41.1	29.5	24.7	18.1	13.6	11.8	11.5	12.1	12.1
45°	675.3	388.1	38.2	27.9	22.2	15.1	11.3	10.2	10.1	10.9	10.9
47.5°	739.9	406.9	35.5	26.2	19.8	12.4	9.5	8.7	8.7	9.5	9.7
50°	816.6	432.4	32.8	24.4	17.7	10.4	7.9	7.4	7.5	8.4	8.7
52.5°	905.0	463.6	30.5	22.8	15.5	8.4	6.6	6.2	6.5	7.4	7.5
55°	980.9	491.0	27.5	21.3	12.7	6.8	5.5	5.3	5.5	6.6	6.6
57.5°	1047.3	517.2	24.9	18.9	10.1	5.5	4.4	4.4	4.9	6.0	6.2
60°	1135.4	558.3	22.5	16.0	7.5	4.2	3.6	3.8	4.4	5.3	5.5
62.5°	1291.3	628.5	19.8	13.4	5.5	3.4	2.9	3.1	4.0	5.1	5.3
65°	1486.3	694.7	16.3	11.0	4.2	2.4	2.2	2.9	4.0	5.1	5.3
67.5°	1466.5	604.3	12.8	8.9	3.1	1.9	1.7	2.6	3.8	5.1	5.3
70°	1189.3	423.6	9.5	6.0	2.4	1.7	1.7	2.6	3.8	4.9	5.1
72.5°	825.0	235.7	7.4	4.0	2.2	1.7	1.5	2.4	3.6	4.9	5.1
75°	392.5	72.4	5.7	2.9	1.9	1.5	1.3	2.4	3.6	4.9	5.1
77.5°	75.4	18.4	4.6	2.4	1.7	1.5	1.3	2.2	3.6	4.6	4.9
80°	25.5	8.3	3.8	2.2	1.7	1.5	1.3	2.2	3.4	4.4	4.6
82.5°	14.0	4.6	3.4	1.9	1.7	1.3	1.1	1.9	3.1	4.4	4.6
85°	10.9	3.4	2.6	1.9	1.7	1.3	1.1	1.9	3.1	4.2	4.4
87.5°	5.5	2.4	2.2	1.9	1.7	1.3	1.1	1.7	2.9	4.0	4.4
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)