

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: P271210

Luminaire Tested: **XNV-AF-01-LED-U-5WQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271210
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24131)
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-5WQ-7027-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3602.1 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - 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

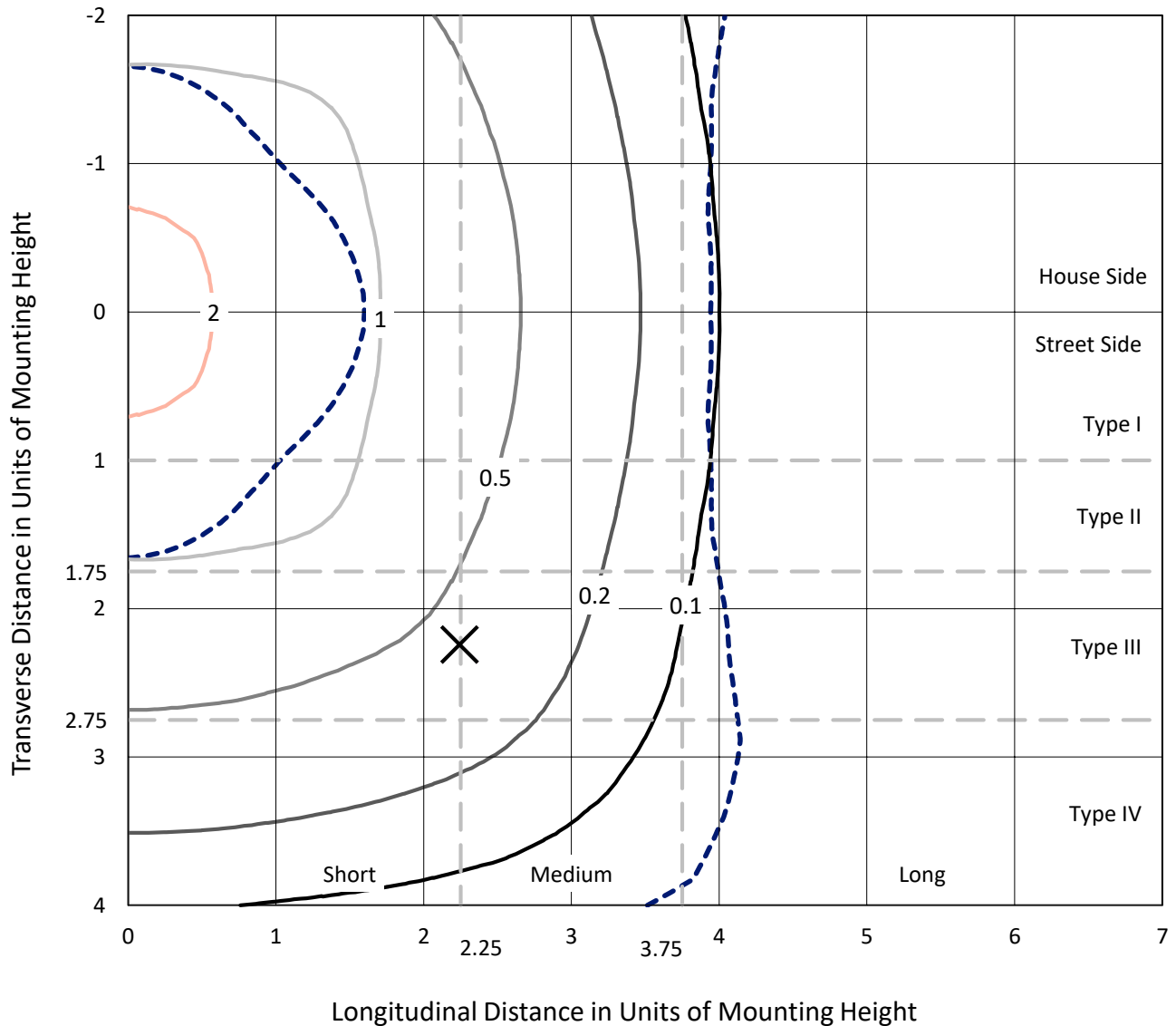


REPORT NUMBER: P271210

CATALOG NUMBER: XNV-AF-01-LED-U-5WQ-7027-600

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

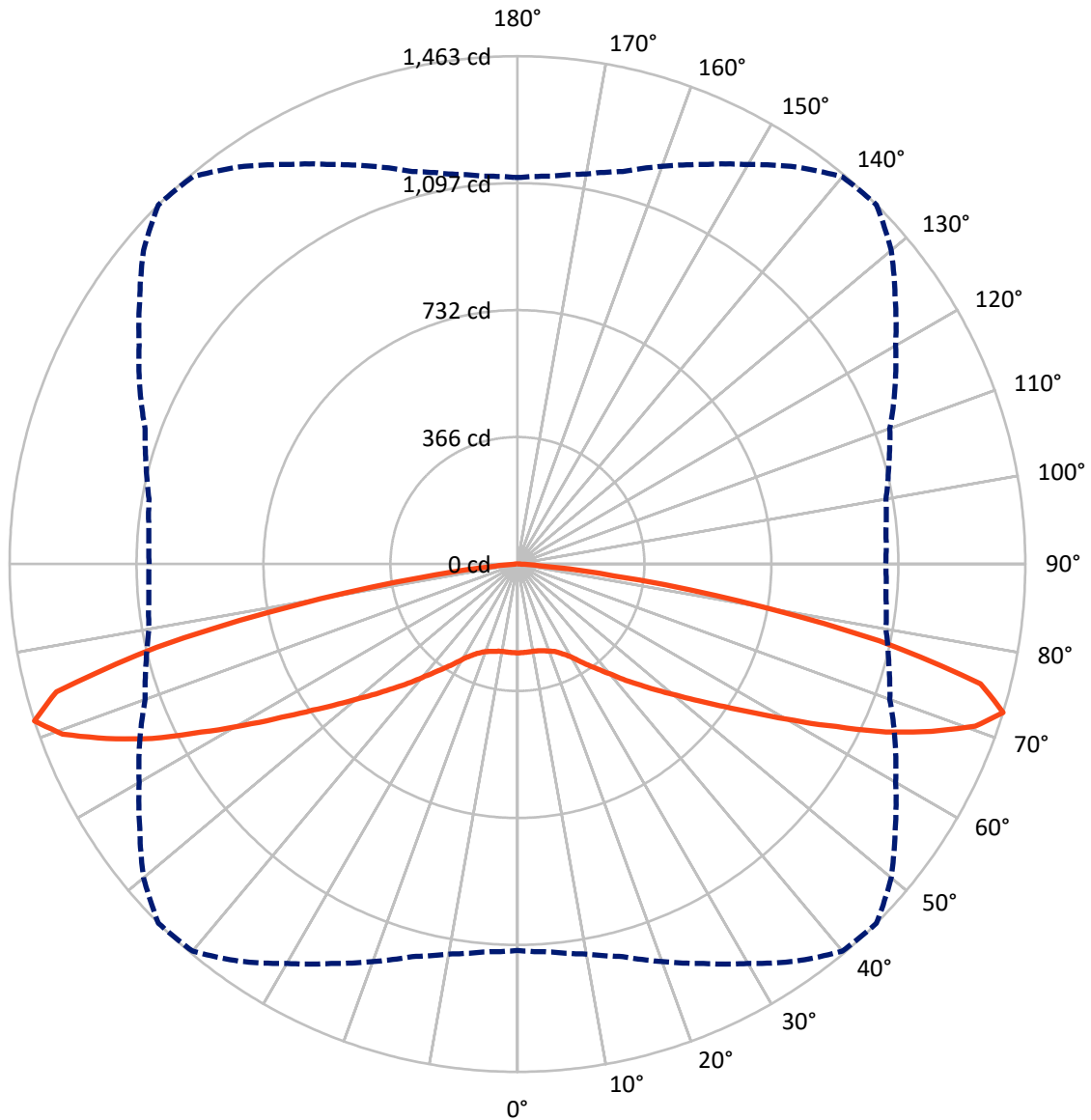


Based on 10 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P271210

CATALOG NUMBER: XNV-AF-01-LED-U-5WQ-7027-600

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P271210

CATALOG NUMBER: XNV-AF-01-LED-U-5WQ-7027-600

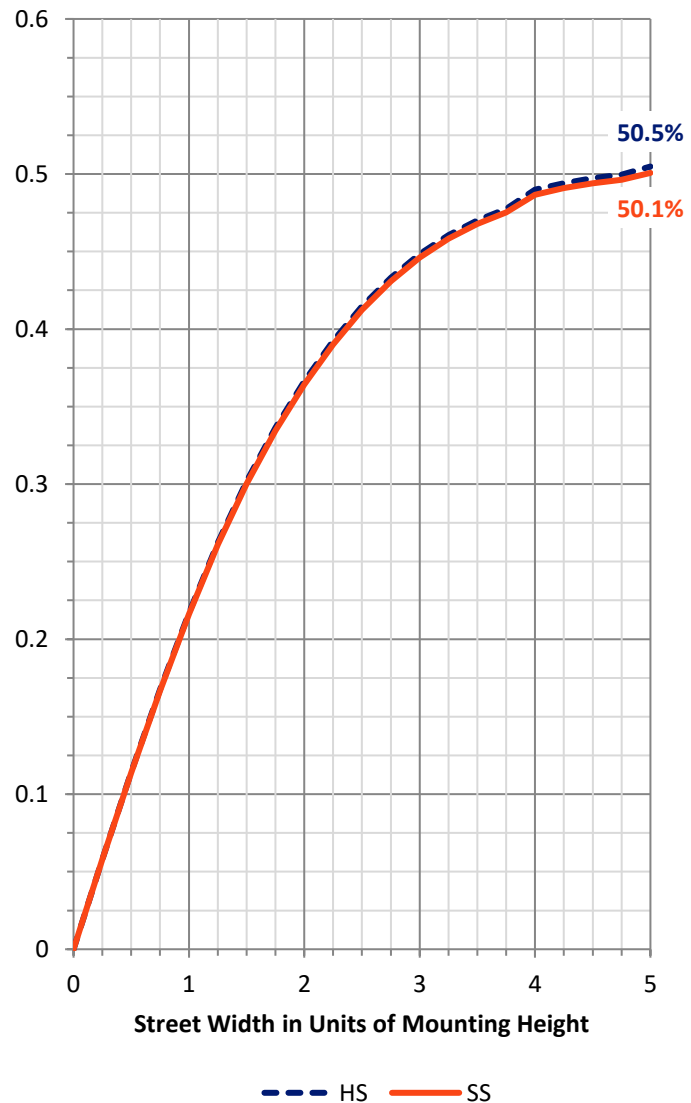
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1801.0	0.0	1801.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1801.0	0.0	1801.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3602.1	0.0	3602.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.4	0.7
10°-20°	74.0	2.1
20°-30°	133.5	3.7
30°-40°	227.8	6.3
40°-50°	387.8	10.8
50°-60°	624.1	17.3
60°-70°	1037.9	28.8
70°-80°	1004.1	27.9
80°-90°	88.4	2.5
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°	3602.1	100.0
0°-180°	3602.1	100.0



REPORT NUMBER: P271210

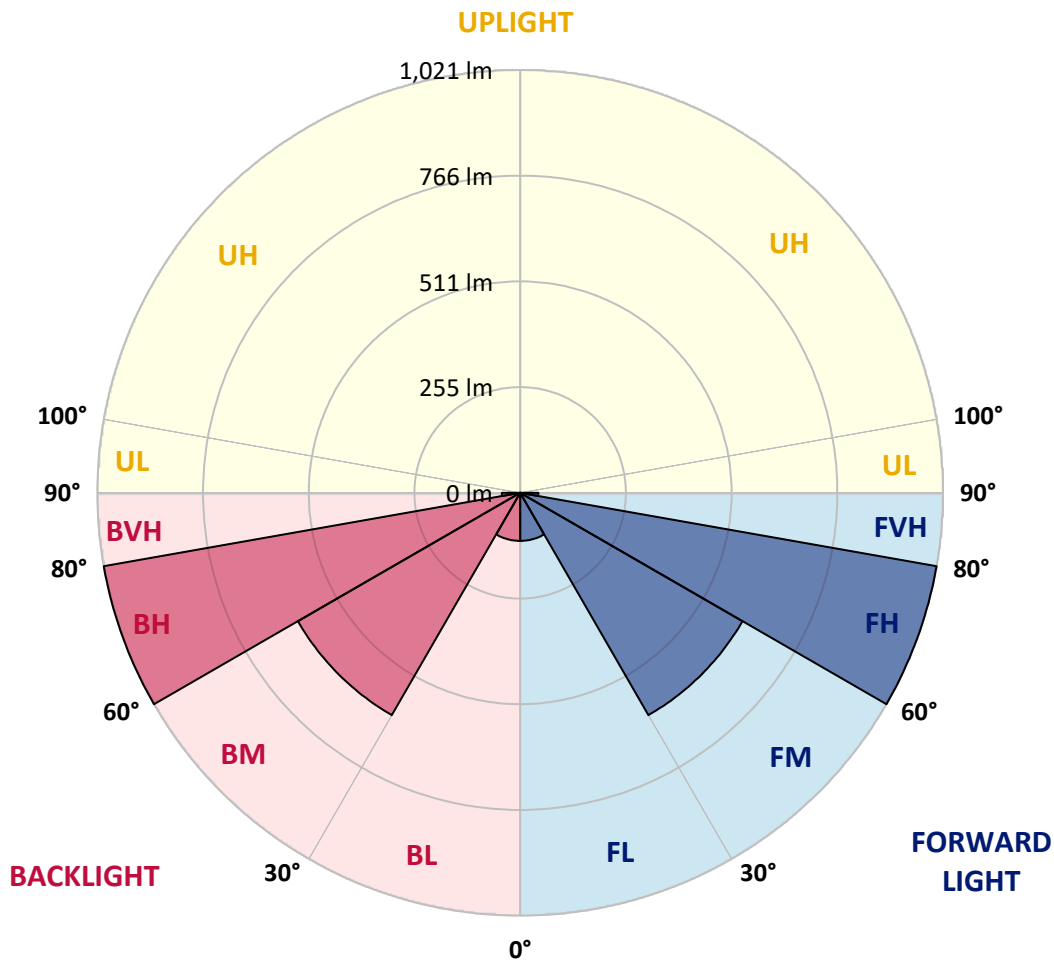
CATALOG NUMBER: XNV-AF-01-LED-U-5WQ-7027-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	116.0	3.2			
FM (30°-60°)	619.9	17.2			
FH (60°-80°)	1021.0	28.3			G1/1800
FVH (80°-90°)	44.2	1.2			G1/100
BL (0°-30°)	116.0	3.2	B1/500		
BM (30°-60°)	619.9	17.2	B1/1000		
BH (60°-80°)	1021.0	28.3	B3/2500		G1/1800
BVH (80°-90°)	44.2	1.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





REPORT NUMBER: P271210

CATALOG NUMBER: XNV-AF-01-LED-U-5WQ-7027-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0
2.5°	258.1	258.1	258.4	258.1	257.6	257.5	256.7	256.2	255.8	255.7	255.2
5°	258.4	258.4	258.5	258.4	257.9	257.5	256.9	256.2	255.8	255.4	255.2
7.5°	259.3	259.4	259.6	259.4	258.5	258.1	257.5	256.7	255.8	255.4	254.9
10°	261.0	261.0	261.0	260.8	260.1	259.3	258.4	257.6	256.6	255.4	254.8
12.5°	262.2	262.6	262.6	262.0	261.1	260.1	259.3	258.5	257.6	256.7	256.0
15°	264.3	264.3	264.0	263.2	261.9	261.0	260.5	260.2	260.1	259.6	258.9
17.5°	268.2	268.1	267.3	266.1	264.6	263.8	263.5	263.5	263.5	263.2	262.8
20°	274.1	274.1	273.2	270.8	269.6	269.0	268.2	268.2	268.2	267.6	266.9
22.5°	283.3	283.5	282.2	279.6	277.8	276.5	275.6	274.9	274.3	273.9	272.7
25°	296.0	295.7	294.3	291.0	289.6	288.3	286.5	285.3	284.5	283.8	282.4
27.5°	309.2	309.0	307.3	304.4	303.5	301.6	300.3	298.6	297.6	296.4	295.2
30°	326.4	325.2	323.8	321.8	321.2	319.6	317.9	315.8	314.0	312.3	310.6
32.5°	341.6	341.6	339.6	338.5	339.4	338.8	339.0	337.7	336.5	335.8	334.3
35°	362.9	362.9	362.0	360.7	360.9	359.4	359.2	359.4	360.3	360.3	358.6
37.5°	391.3	391.8	388.8	388.4	387.3	385.2	384.0	384.5	386.5	387.6	385.2
40°	426.5	427.5	426.5	423.7	422.4	418.6	416.4	416.4	417.9	419.0	418.2
42.5°	461.4	462.9	461.4	459.2	458.0	455.3	454.1	454.9	457.0	458.2	457.0
45°	500.1	501.3	499.3	496.7	495.3	493.8	493.1	493.8	496.0	497.3	496.9
47.5°	538.4	539.9	537.5	536.3	536.3	534.9	536.6	538.4	540.3	543.5	542.0
50°	575.5	577.6	576.1	576.3	578.0	580.8	584.2	587.8	591.4	594.7	595.0
52.5°	608.8	611.9	612.1	616.1	621.6	626.1	635.5	643.1	651.6	654.4	653.2
55°	643.8	648.0	653.5	659.9	668.7	677.9	693.5	707.4	718.6	725.4	724.4
57.5°	694.0	698.2	703.9	714.2	727.4	739.8	761.4	783.1	799.9	810.4	805.3
60°	758.9	763.4	770.8	781.7	799.0	815.9	845.3	876.7	902.7	914.7	905.5
62.5°	844.9	849.2	854.0	868.4	887.7	909.4	946.5	986.6	1019.8	1031.4	1018.3
65°	967.6	972.7	974.2	986.0	1004.8	1025.0	1064.9	1110.1	1148.0	1166.9	1140.7
67.5°	1105.6	1107.7	1113.9	1127.6	1147.0	1165.1	1196.6	1239.4	1275.8	1286.2	1258.3
70°	1186.7	1190.7	1201.5	1220.5	1243.6	1272.2	1306.6	1352.7	1393.9	1398.8	1363.3
72.5°	1113.4	1121.7	1140.9	1170.6	1219.0	1269.8	1329.0	1397.0	1456.2	1463.1	1406.0
75°	893.0	902.3	925.4	958.0	1015.3	1090.6	1176.2	1278.4	1367.1	1378.4	1303.0
77.5°	476.0	487.5	521.0	564.9	646.5	746.3	849.3	965.9	1041.3	1066.8	1012.6
80°	120.0	126.1	142.3	168.1	223.3	303.7	392.6	518.1	611.7	651.5	611.7
82.5°	46.5	51.3	55.7	58.7	64.0	75.2	103.8	169.2	227.9	280.7	243.0
85°	18.0	19.0	27.5	31.4	31.4	34.3	39.4	46.5	57.6	63.1	52.8
87.5°	7.0	7.7	9.5	14.6	15.1	13.4	14.3	16.0	12.1	10.2	11.5
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: P271210

CATALOG NUMBER: XNV-AF-01-LED-U-5WQ-7027-600

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0
2.5°	254.9	254.8	254.3	254.5	254.3	254.3	254.3	254.3
5°	254.8	254.8	254.3	254.3	254.3	254.5	254.3	254.3
7.5°	254.5	254.3	254.0	253.6	253.6	253.4	253.4	253.4
10°	254.1	253.6	253.2	253.0	253.0	252.6	252.6	252.6
12.5°	255.2	254.5	254.1	254.0	254.0	254.0	254.1	254.1
15°	258.4	256.9	256.2	256.0	256.2	256.7	256.9	257.2
17.5°	261.6	260.2	259.3	258.7	258.9	259.6	260.2	260.8
20°	265.8	264.7	263.5	262.9	262.9	263.8	264.3	264.9
22.5°	271.7	270.8	269.9	269.1	268.8	269.9	270.5	270.8
25°	281.3	280.5	279.6	279.0	278.7	279.8	280.2	280.5
27.5°	293.9	293.0	292.7	292.5	291.8	292.2	292.8	292.7
30°	310.5	311.1	310.5	310.5	309.2	309.7	309.2	308.8
32.5°	332.4	331.7	329.7	328.4	326.9	326.9	326.2	325.5
35°	354.3	352.0	351.0	351.6	351.0	351.3	350.2	349.3
37.5°	380.3	378.9	378.6	380.7	380.3	380.7	380.7	379.2
40°	414.6	413.7	415.2	418.6	419.9	419.7	420.1	418.2
42.5°	454.1	452.6	453.1	456.1	457.5	458.0	457.9	456.1
45°	493.4	494.0	494.0	497.1	498.6	499.5	498.0	497.3
47.5°	538.1	538.8	537.1	539.3	539.6	541.1	539.9	538.8
50°	589.6	587.1	583.5	584.2	584.2	583.8	582.2	580.8
52.5°	647.0	641.4	634.7	632.5	630.2	627.6	624.5	622.2
55°	712.4	702.8	690.8	685.2	680.6	675.2	668.0	665.6
57.5°	788.3	771.7	755.8	745.9	733.8	726.5	717.4	716.9
60°	878.3	856.1	827.9	813.1	801.1	792.5	785.5	782.9
62.5°	982.1	944.1	913.7	897.8	883.8	878.5	869.7	870.8
65°	1088.8	1049.9	1020.6	1007.7	994.7	991.1	983.0	986.0
67.5°	1204.4	1172.4	1140.0	1128.1	1116.1	1112.6	1104.3	1106.8
70°	1307.9	1267.2	1230.5	1207.1	1186.7	1170.2	1159.8	1155.6
72.5°	1328.6	1258.3	1200.3	1141.6	1107.7	1078.0	1065.7	1061.1
75°	1193.7	1084.7	1002.1	933.2	895.0	851.9	847.1	840.8
77.5°	928.6	804.3	704.6	615.9	564.8	511.9	493.8	480.1
80°	553.9	425.6	329.9	231.3	188.6	151.9	142.8	133.3
82.5°	198.3	127.0	85.6	66.7	59.6	54.9	51.5	46.8
85°	47.9	40.3	38.2	34.6	34.1	29.0	20.7	18.3
87.5°	15.4	14.0	14.3	13.6	14.3	10.6	8.7	7.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)