

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: P271278

Luminaire Tested: **XNV-AF-01-LED-U-T4W-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24127)
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-T4W-7027-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3421.5 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - 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

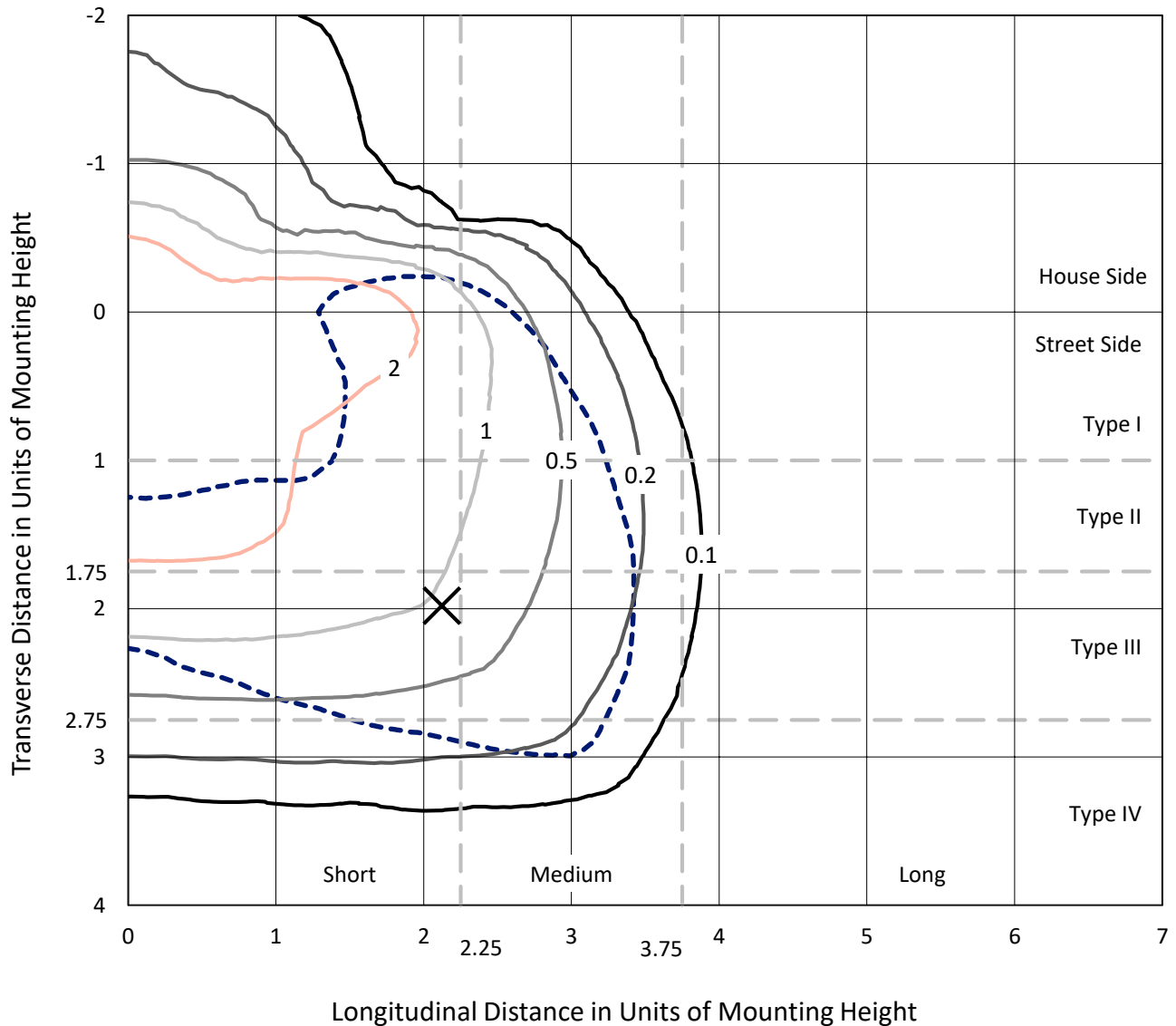


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

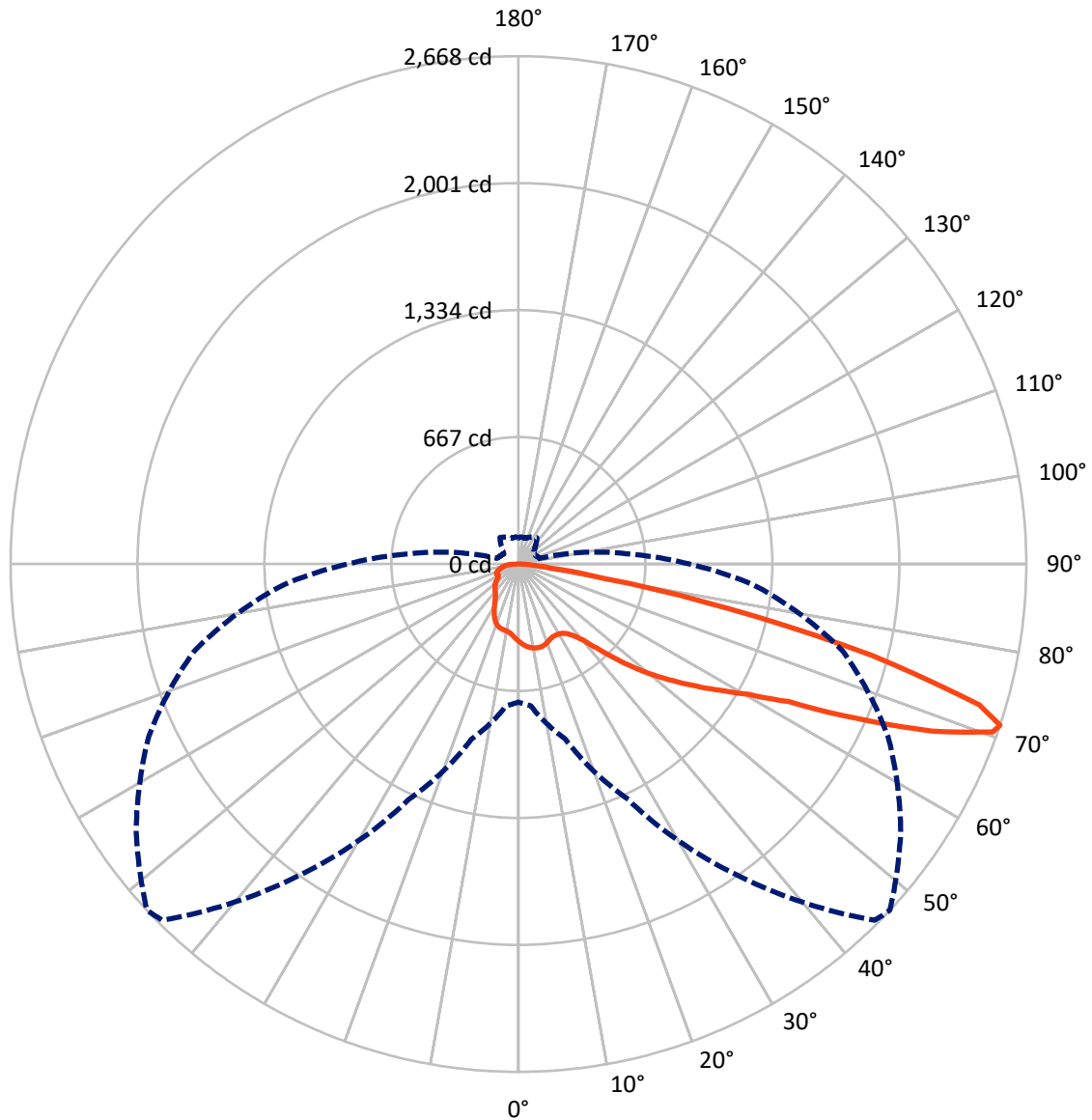


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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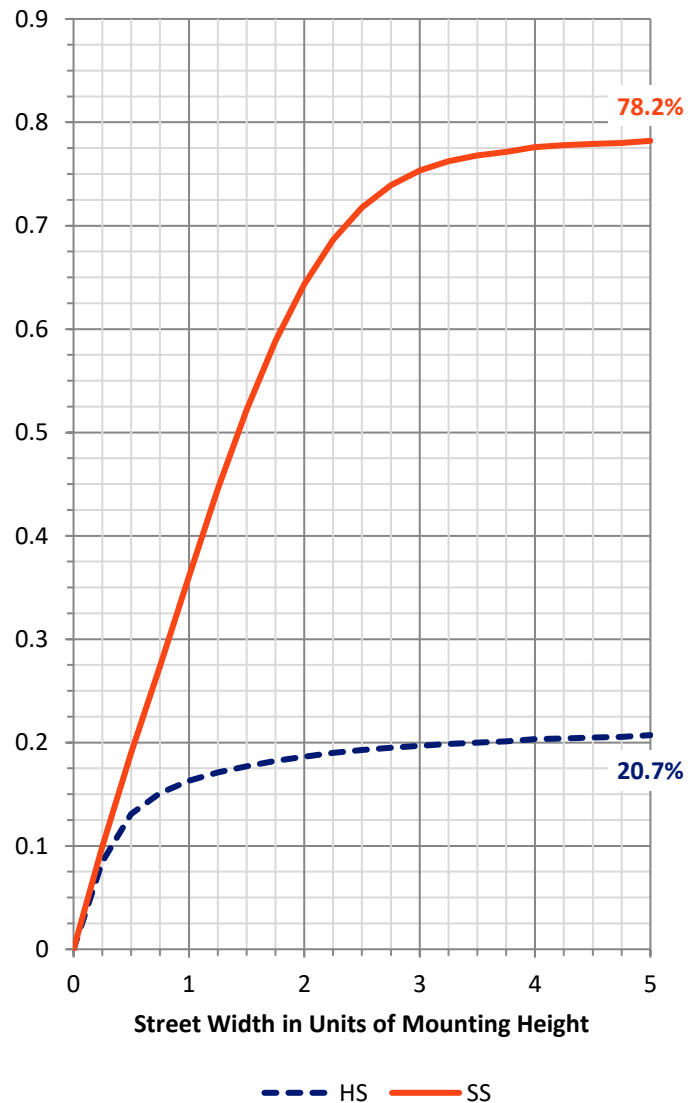
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	733.3	0.0	733.3
	% Fixture	21.4	0.0	21.4
Street Side	Lumens	2688.2	0.0	2688.2
	% Fixture	78.6	0.0	78.6
Total	Lumens	3421.5	0.0	3421.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.8	1.1
10°-20°	113.7	3.3
20°-30°	168.9	4.9
30°-40°	242.5	7.1
40°-50°	429.9	12.6
50°-60°	735.7	21.5
60°-70°	1044.4	30.5
70°-80°	572.0	16.7
80°-90°	75.5	2.2
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°	3421.5	100.0
0°-180°	3421.5	100.0



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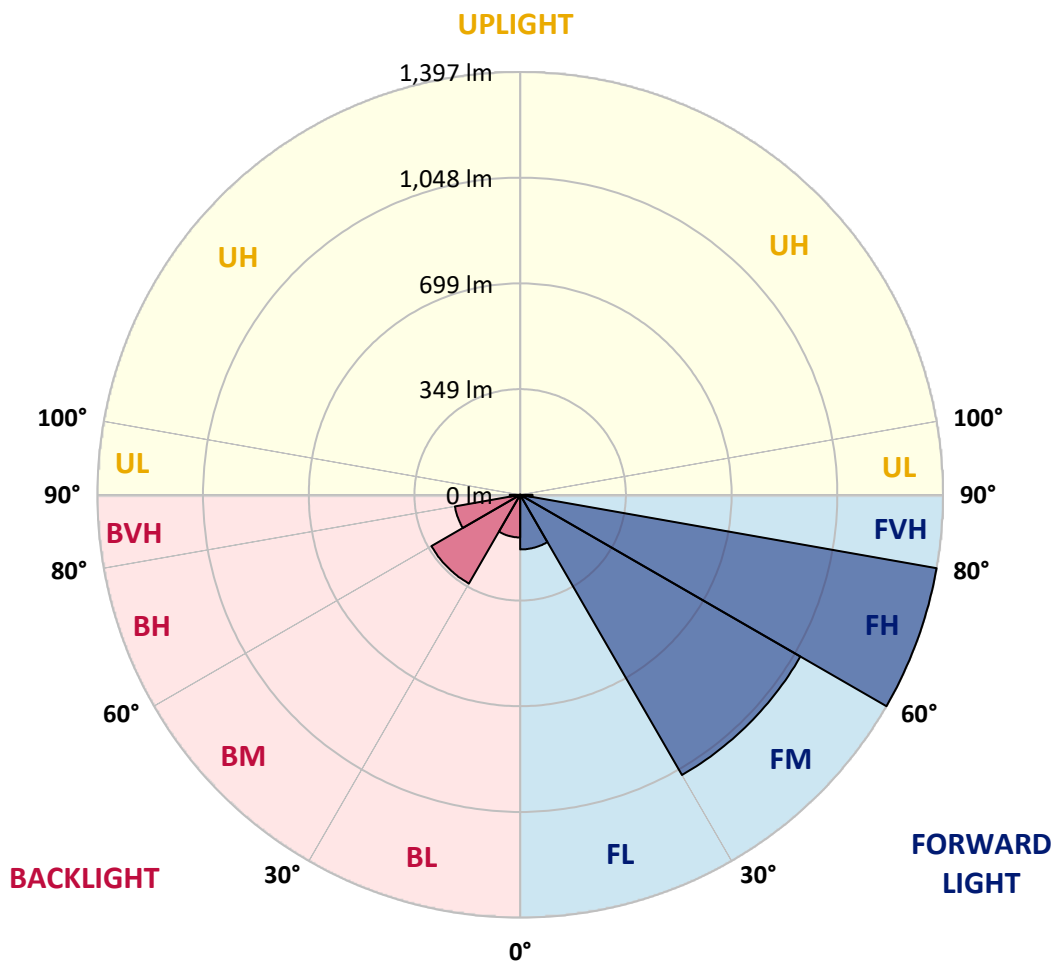
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	180.6	5.3			
FM	(30°-60°)	1069.3	31.3			
FH	(60°-80°)	1397.4	40.8			G1/1800
FVH	(80°-90°)	41.0	1.2			G1/100
BL	(0°-30°)	140.8	4.1	B1/500		
BM	(30°-60°)	338.8	9.9	B1/1000		
BH	(60°-80°)	219.1	6.4	B1/500		G1/500
BVH	(80°-90°)	34.6	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	406.8	406.8	406.8	406.8	406.8	406.8	406.8	406.8	406.8	406.8	406.8
2.5°	431.6	430.7	431.2	429.7	425.9	421.9	421.9	417.7	413.3	408.9	404.0
5°	458.6	457.1	456.1	451.2	443.9	435.7	434.4	425.9	416.9	407.7	398.8
7.5°	481.0	479.5	476.3	467.4	456.8	444.5	443.0	431.9	420.0	407.3	394.9
10°	496.9	496.0	489.5	478.3	465.9	451.5	448.8	437.5	423.3	407.6	391.8
12.5°	505.7	504.4	496.7	483.4	468.7	454.2	451.5	440.6	424.4	407.1	388.6
15°	502.2	501.6	494.2	480.8	466.1	453.5	451.2	440.1	423.7	405.6	385.8
17.5°	487.2	488.7	482.8	469.6	457.6	448.8	446.4	435.9	420.3	401.7	381.4
20°	466.3	468.0	465.2	451.7	444.8	439.0	437.7	429.3	414.8	396.2	376.0
22.5°	444.1	445.6	445.9	433.3	431.0	428.9	427.8	421.8	409.9	392.9	372.4
25°	428.9	430.6	431.0	420.0	421.2	421.9	421.8	417.5	409.1	392.9	372.9
27.5°	424.8	425.6	425.3	415.0	417.5	421.2	421.6	420.6	412.6	397.3	379.2
30°	438.6	439.0	433.5	418.3	420.6	425.4	425.6	425.3	420.1	408.9	393.1
32.5°	498.0	497.5	478.4	439.0	430.6	432.4	433.1	437.0	437.5	428.0	413.3
35°	588.5	588.2	566.0	498.6	458.9	449.6	450.5	456.8	462.3	455.9	447.4
37.5°	688.0	688.7	675.2	583.8	520.2	481.3	480.5	485.2	495.1	497.3	498.4
40°	798.5	801.7	801.1	681.5	605.9	535.5	526.5	521.2	540.6	552.7	568.4
42.5°	924.5	923.6	924.1	788.9	704.0	620.5	604.2	579.3	601.8	622.9	657.4
45°	1033.1	1036.6	1039.2	903.1	813.8	717.9	701.3	656.1	676.2	707.8	760.5
47.5°	1142.1	1135.8	1140.8	1030.1	935.9	829.0	807.5	746.5	765.4	809.7	890.0
50°	1269.1	1266.3	1244.2	1196.1	1083.5	941.7	913.4	841.1	868.5	927.7	1049.8
52.5°	1383.1	1367.6	1350.3	1326.3	1228.8	1055.7	1019.9	939.3	989.8	1063.1	1248.4
55°	1424.8	1414.4	1435.2	1466.3	1382.4	1171.7	1132.0	1053.8	1126.6	1218.1	1481.8
57.5°	1469.2	1472.7	1519.8	1582.5	1527.8	1295.7	1252.5	1189.5	1276.8	1391.6	1742.7
60°	1491.4	1505.5	1599.3	1717.0	1666.3	1431.7	1390.2	1345.4	1443.1	1583.2	2003.1
62.5°	1495.0	1514.2	1647.0	1764.4	1856.7	1639.9	1591.9	1543.5	1651.2	1794.9	2191.5
65°	1425.9	1455.2	1642.8	1822.3	2030.3	1987.8	1957.3	1872.6	1929.6	1981.3	2223.7
67.5°	1222.7	1254.6	1480.2	1798.4	2169.5	2348.8	2343.0	2217.9	2144.8	2053.3	1985.3
70°	897.3	923.1	1139.9	1537.4	2108.9	2632.2	2642.4	2441.7	2204.8	1900.5	1476.3
71°	725.7	747.8	952.4	1365.0	1990.5	2646.8	2668.1	2451.7	2142.3	1762.2	1235.9
72.5°	451.7	464.1	632.3	1030.1	1714.0	2496.0	2532.0	2323.9	1945.4	1489.6	873.6
75°	170.5	175.3	234.5	454.4	1023.0	1875.1	1918.6	1756.2	1366.7	850.3	365.6
77.5°	91.5	94.1	116.4	189.0	409.9	1074.9	1130.7	1001.8	655.7	297.6	149.5
80°	61.4	63.1	80.5	112.0	188.5	409.3	455.9	402.3	245.4	169.8	106.4
82.5°	39.6	40.6	54.7	73.7	121.7	143.9	164.3	171.7	153.3	121.7	64.3
85°	26.2	26.8	36.1	47.0	75.4	71.0	72.8	95.1	104.5	80.3	32.8
87.5°	15.1	15.5	21.6	24.2	34.0	26.6	28.8	45.3	62.2	52.3	18.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	406.8	406.8	406.8	406.8	406.8	406.8	406.8	406.8	406.8	406.8	406.8
2.5°	401.7	399.9	396.1	393.5	392.5	392.0	391.7	392.5	392.5	392.0	391.1
5°	394.4	391.1	384.5	379.9	377.4	376.7	377.6	378.7	379.4	379.4	378.7
7.5°	389.1	384.2	375.4	368.9	365.3	364.1	366.5	370.6	373.2	374.6	374.8
10°	384.7	378.0	368.2	361.7	358.6	358.1	361.2	366.2	371.9	374.2	374.8
12.5°	380.7	373.2	362.6	356.3	354.1	355.2	359.4	364.1	370.6	374.1	374.2
15°	376.8	369.2	357.9	351.4	351.0	352.8	356.7	360.5	365.4	369.8	369.8
17.5°	372.4	364.1	352.3	346.3	346.3	348.0	350.6	352.6	355.6	360.0	359.6
20°	367.1	358.6	346.6	340.4	339.0	338.1	338.1	338.7	341.3	344.9	345.7
22.5°	363.2	354.3	341.6	334.1	328.2	322.4	319.9	319.1	321.6	325.0	325.9
25°	363.2	354.3	340.1	327.5	312.9	301.8	297.1	295.8	298.1	301.6	302.9
27.5°	369.2	360.3	343.7	321.6	294.6	276.9	271.4	270.3	272.5	275.2	276.5
30°	383.1	374.6	353.9	314.6	274.5	251.3	245.0	243.9	245.0	246.1	247.7
32.5°	406.5	399.0	370.6	308.4	254.1	227.9	220.4	218.6	219.0	219.2	220.7
35°	444.3	441.0	392.6	301.1	234.7	208.9	201.1	197.5	197.4	198.4	200.1
37.5°	502.4	504.4	421.2	290.4	218.8	195.3	187.6	184.1	182.3	184.5	186.3
40°	584.4	589.1	454.4	276.0	205.7	187.3	179.1	175.8	173.5	172.7	173.6
42.5°	691.2	689.8	488.0	257.6	191.6	182.0	173.5	169.8	165.8	160.7	159.7
45°	817.5	798.5	516.2	235.0	175.3	177.0	168.1	163.2	156.9	149.5	148.6
47.5°	966.8	914.1	533.5	210.8	160.3	170.3	162.1	154.6	145.4	140.6	139.9
50°	1146.5	1049.7	545.7	186.3	146.9	161.9	153.7	143.6	134.8	133.5	133.3
52.5°	1359.5	1209.5	560.7	164.1	136.2	150.9	145.3	135.0	127.9	128.5	128.5
55°	1585.8	1374.9	561.3	146.6	126.8	138.3	139.0	130.9	125.3	127.5	128.2
57.5°	1792.2	1519.6	517.1	134.1	117.9	128.4	137.0	132.4	128.2	136.0	136.6
60°	1972.3	1630.9	422.2	124.0	110.6	124.7	141.5	141.9	141.0	162.1	163.6
62.5°	2038.2	1632.0	299.8	115.3	106.7	126.8	150.7	151.5	151.5	170.9	173.8
65°	1945.9	1495.9	199.6	110.2	104.1	131.7	158.3	155.4	148.6	162.1	159.0
67.5°	1620.8	1164.6	145.9	106.9	100.3	132.0	165.0	157.7	145.9	157.5	152.2
70°	1114.0	741.0	122.2	103.8	95.8	126.1	168.5	156.9	141.9	146.9	139.6
71°	896.7	591.4	116.1	102.6	94.1	122.9	168.9	156.0	139.9	143.0	136.6
72.5°	590.6	364.4	108.4	100.3	91.4	117.0	167.9	154.1	137.3	137.5	133.3
75°	233.0	150.9	97.6	94.7	83.8	107.7	163.0	149.8	132.1	127.6	125.9
77.5°	117.8	98.6	85.8	87.0	75.0	98.3	156.0	143.0	125.0	119.0	117.8
80°	86.1	75.0	73.4	75.4	64.9	88.9	147.4	133.7	116.1	122.2	119.6
82.5°	52.3	45.6	57.4	62.3	54.3	79.4	137.3	122.9	104.5	96.2	93.2
85°	24.9	26.8	41.4	46.0	40.2	63.4	125.6	110.9	91.1	78.7	80.0
87.5°	12.1	14.8	23.7	27.5	26.4	46.5	94.7	86.1	71.9	59.2	57.9
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)