

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: P271258

Luminaire Tested: **XNV-AF-01-LED-U-T2-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271258
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24136)
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-T2-7027-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3389 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G1

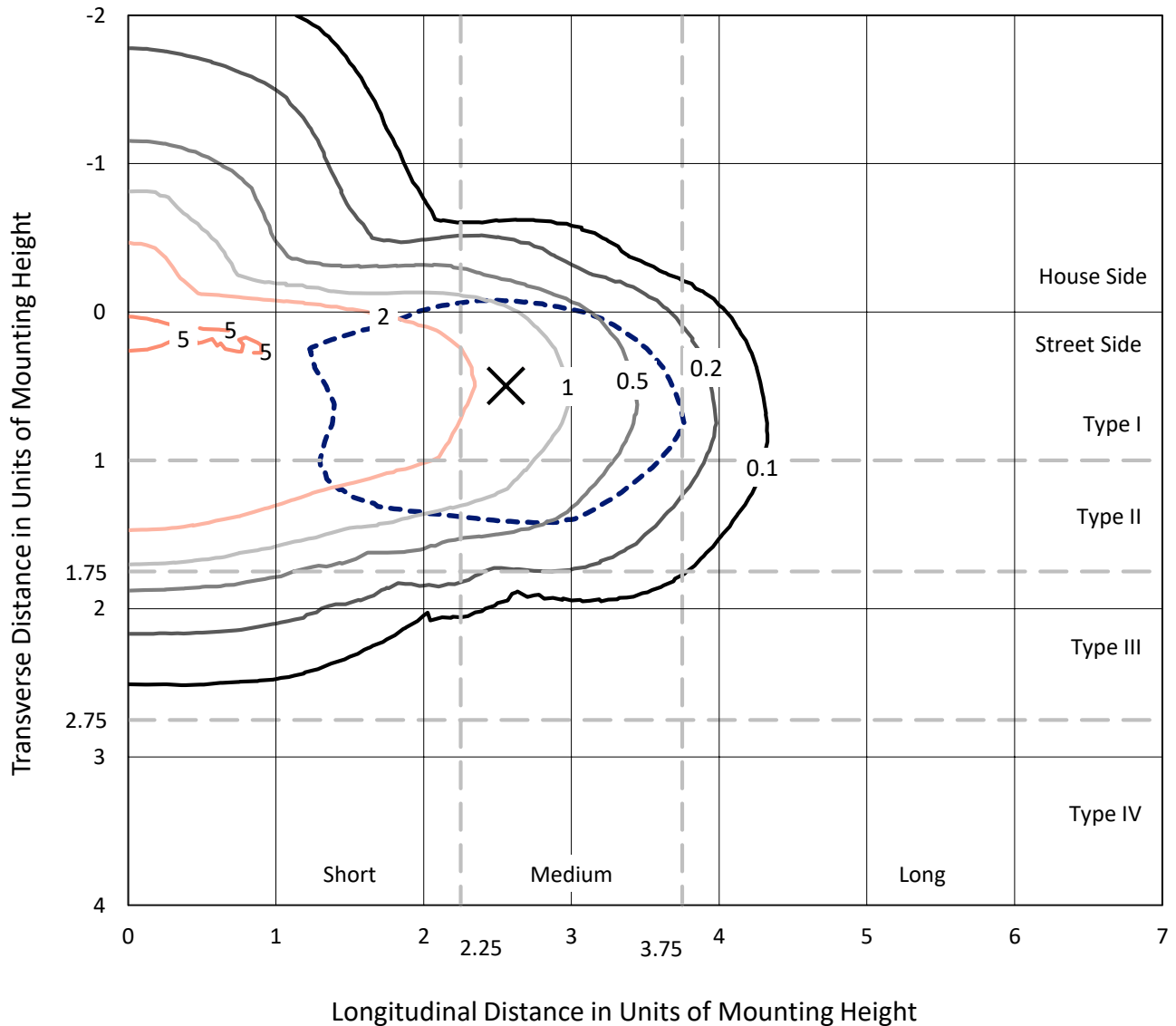
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

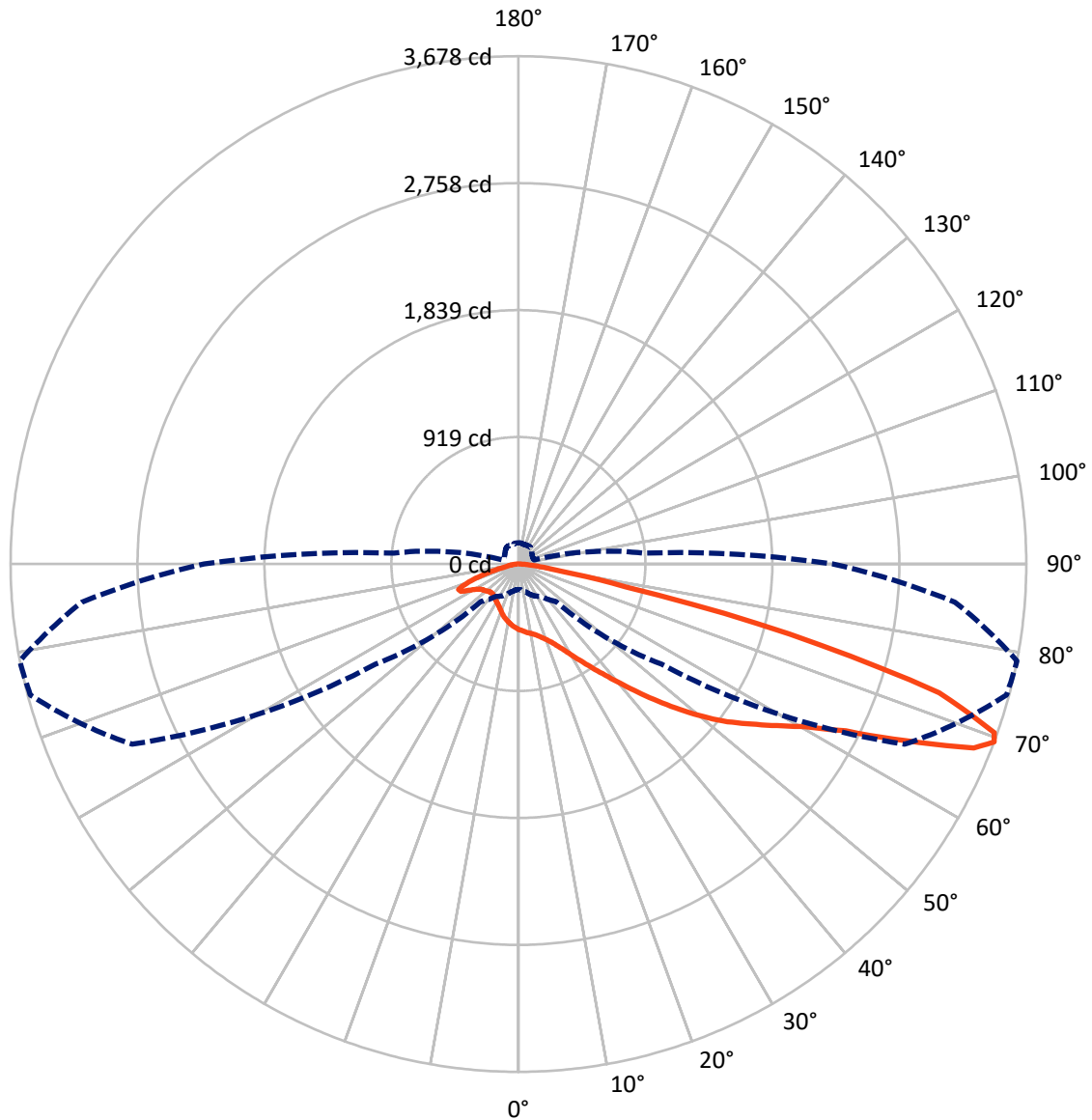
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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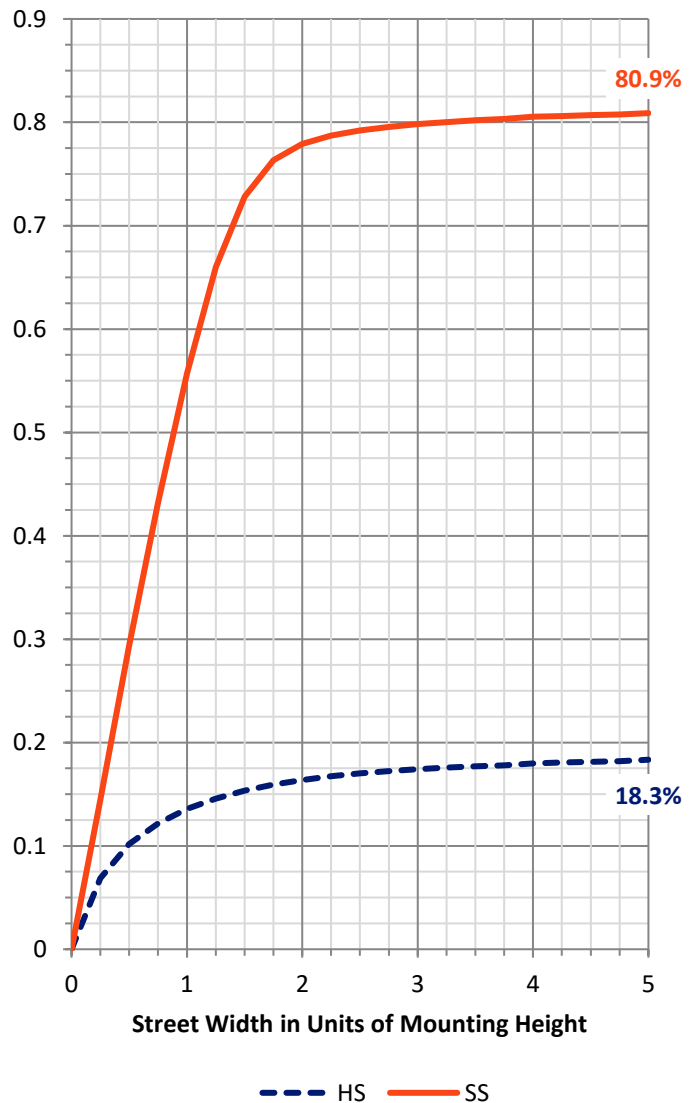
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	637.5	0.0	637.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	2751.5	0.0	2751.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	3389.0	0.0	3389.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	1.3
10°-20°	126.4	3.7
20°-30°	208.9	6.2
30°-40°	338.2	10.0
40°-50°	540.3	15.9
50°-60°	773.8	22.8
60°-70°	862.1	25.4
70°-80°	431.3	12.7
80°-90°	64.0	1.9
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°	3389.0	100.0
0°-180°	3389.0	100.0

Coefficient of Utilization



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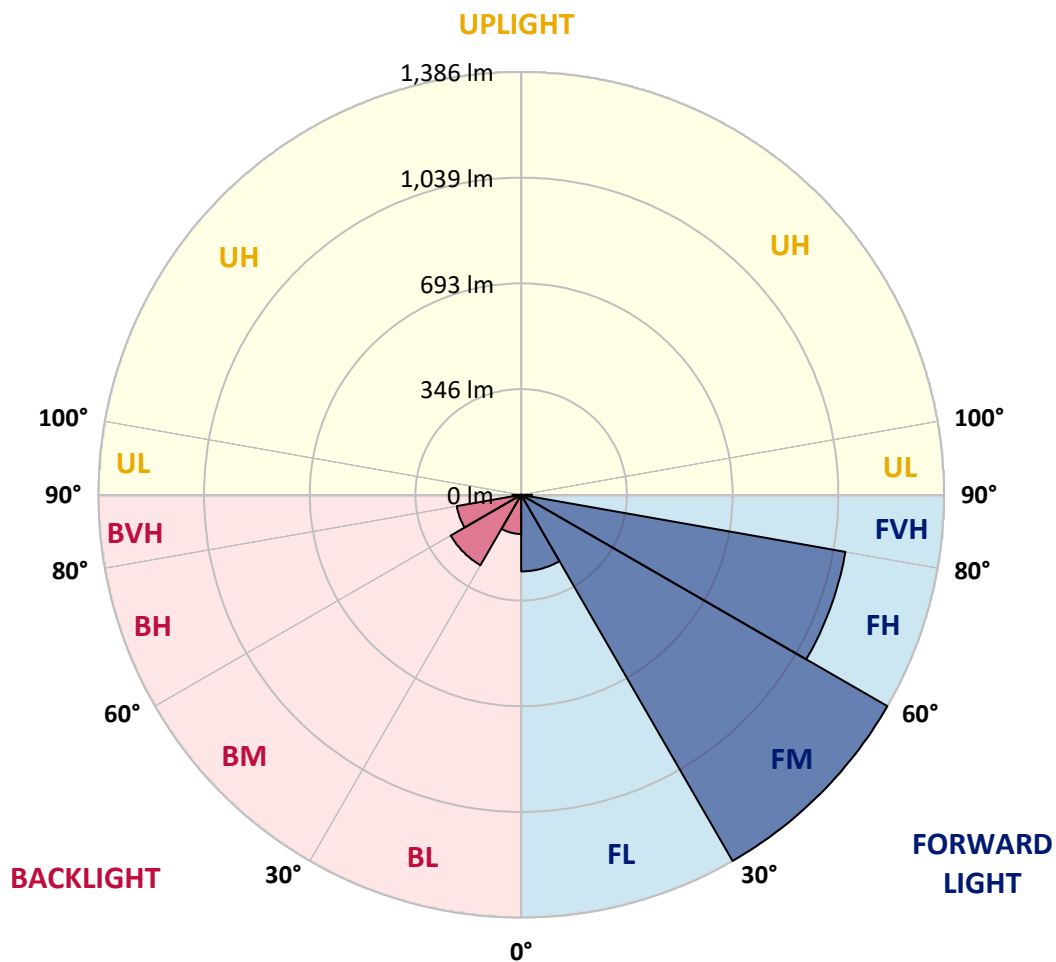
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	250.9	7.4			
FM (30°-60°)	1385.8	40.9			
FH (60°-80°)	1079.0	31.8			G1/1800
FVH (80°-90°)	35.8	1.1			G1/100
BL (0°-30°)	128.4	3.8	B1/500		
BM (30°-60°)	266.5	7.9	B1/1000		
BH (60°-80°)	214.4	6.3	B1/500		G1/500
BVH (80°-90°)	28.2	0.8			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7
2.5°	522.2	521.0	520.7	517.6	515.7	511.9	503.1	494.0	485.5	481.1	476.6
5°	565.8	563.5	562.5	556.9	552.1	543.7	529.7	515.3	500.1	492.5	483.1
7.5°	592.3	592.4	592.4	588.0	583.1	572.8	555.2	535.5	513.0	503.0	488.1
10°	594.4	594.7	598.0	599.1	600.2	594.9	578.5	553.6	524.8	511.6	492.5
12.5°	572.5	574.0	579.5	587.5	598.9	604.6	597.6	573.2	539.9	523.7	500.4
15°	542.9	544.6	551.6	563.9	582.0	601.3	611.2	595.5	559.6	540.6	512.2
17.5°	528.7	530.4	535.2	545.0	562.7	588.7	618.7	619.6	582.9	560.9	526.1
20°	521.7	523.1	529.2	537.2	550.8	575.5	619.3	644.8	610.6	585.2	543.3
22.5°	537.5	537.8	541.0	545.5	554.6	573.6	618.8	670.9	645.3	615.5	565.2
25°	583.5	580.7	578.5	572.8	575.2	588.7	625.8	698.9	689.5	655.5	594.4
27.5°	638.2	637.6	631.9	619.0	610.8	619.6	646.2	730.1	743.8	706.2	632.8
30°	698.9	699.2	693.1	677.3	660.8	661.6	678.2	766.3	808.8	767.4	679.9
32.5°	762.5	766.6	755.5	739.7	719.5	713.1	724.4	809.9	884.0	839.6	734.8
35°	838.6	839.1	827.0	804.0	783.9	773.6	784.0	864.4	970.7	924.5	801.5
37.5°	917.4	917.9	905.3	875.8	850.2	843.7	855.1	930.7	1062.4	1021.3	880.0
40°	981.9	986.7	976.6	949.0	923.3	919.2	935.9	1010.1	1179.7	1135.6	973.4
42.5°	1055.1	1060.4	1048.5	1019.7	999.4	997.9	1023.9	1100.7	1296.4	1268.0	1079.1
45°	1137.7	1145.2	1128.6	1096.2	1079.0	1108.1	1109.8	1200.9	1430.8	1416.2	1198.2
47.5°	1227.7	1233.9	1220.3	1185.6	1166.7	1209.1	1193.8	1309.3	1575.9	1574.9	1326.9
50°	1297.1	1303.9	1305.2	1290.0	1270.3	1275.6	1286.0	1423.3	1720.8	1738.1	1460.3
52.5°	1284.4	1291.0	1321.0	1361.1	1392.8	1379.1	1391.7	1544.2	1860.7	1897.3	1586.9
55°	1182.3	1186.0	1242.0	1337.4	1472.4	1538.1	1538.9	1676.0	1993.7	2044.9	1707.0
57.5°	998.6	999.0	1071.9	1212.6	1426.1	1641.2	1771.4	1841.3	2132.4	2208.2	1856.0
60°	706.6	708.5	793.4	977.1	1260.1	1628.7	2021.1	2137.3	2293.3	2391.5	2048.0
62.5°	419.5	423.6	487.6	635.0	935.9	1469.1	2168.9	2664.0	2530.0	2660.4	2355.4
65°	272.9	276.3	314.6	388.6	552.9	1069.0	2120.3	3173.9	2978.2	3083.5	2797.1
67.5°	210.3	212.9	243.0	287.7	339.2	577.8	1695.3	3280.8	3523.6	3556.4	3169.7
69°	184.7	186.8	209.0	252.2	285.7	382.5	1263.3	3086.8	3660.0	3677.9	3174.4
70°	171.1	173.0	193.8	231.0	262.2	305.3	966.9	2861.6	3610.1	3655.9	3082.9
72.5°	141.0	142.7	157.5	185.9	214.3	217.5	428.3	2089.5	3039.8	3186.6	2608.8
75°	117.8	118.7	128.4	149.2	173.6	173.2	218.8	1183.5	1854.9	2029.9	1610.8
77.5°	98.3	99.0	105.3	118.1	137.0	136.4	154.1	510.9	819.1	790.1	554.6
80°	86.6	87.1	90.5	93.9	105.8	105.1	114.2	234.5	333.2	307.9	209.8
82.5°	65.8	66.7	83.6	85.1	82.0	79.1	79.6	136.6	170.7	155.4	112.6
85°	37.3	37.5	53.7	62.7	71.3	53.7	51.7	70.4	84.3	73.8	49.2
87.5°	16.6	17.2	25.7	29.7	38.5	31.5	29.5	30.0	36.3	30.2	19.6
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°	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7
2.5°	472.1	468.2	459.5	450.3	441.2	435.5	429.5	423.9	421.8	421.5	417.4
5°	474.0	465.1	445.0	422.8	401.7	385.4	371.5	362.7	354.1	352.6	348.7
7.5°	474.8	460.3	427.5	392.0	359.9	337.3	323.5	317.6	313.2	312.3	310.9
10°	474.5	454.2	408.0	359.4	322.9	305.8	300.7	302.0	303.7	304.6	304.6
12.5°	478.0	451.2	388.4	328.8	298.9	290.7	294.6	301.6	307.0	309.0	309.6
15°	484.5	449.4	367.0	302.2	282.1	284.0	293.7	303.7	311.4	314.6	315.6
17.5°	492.5	446.9	342.2	280.2	272.2	279.2	291.8	304.4	313.5	317.7	318.4
20°	501.3	443.5	316.5	263.8	263.7	272.2	284.9	299.0	308.8	313.5	313.2
22.5°	513.3	440.1	292.5	251.9	254.1	262.0	272.5	285.3	294.5	298.6	297.8
25°	529.2	437.0	271.0	241.3	243.3	248.6	255.8	265.5	272.0	274.3	272.7
27.5°	550.8	434.6	254.1	231.5	231.3	233.6	238.1	243.4	246.6	245.9	243.4
30°	577.2	432.2	241.6	222.8	219.7	219.5	221.5	224.5	226.6	222.6	220.7
32.5°	606.6	428.0	230.5	215.4	209.8	207.8	208.6	212.9	221.1	217.1	215.6
35°	641.4	423.0	219.5	207.1	202.8	199.2	199.8	208.9	233.6	230.9	229.2
37.5°	683.3	418.6	209.3	198.3	197.9	193.3	192.9	203.7	237.1	230.9	229.4
40°	733.6	417.7	200.2	188.5	192.0	190.3	188.6	195.3	218.6	206.0	203.6
42.5°	794.5	421.8	193.6	179.1	185.1	189.4	186.5	188.0	197.5	186.3	184.2
45°	865.3	432.5	188.6	170.9	177.9	188.6	185.4	184.1	185.6	179.4	178.0
47.5°	948.2	451.8	185.4	164.1	170.9	186.8	185.0	182.3	181.5	178.0	177.1
50°	1036.6	477.8	183.2	157.8	164.7	183.9	184.7	180.9	179.8	178.3	177.9
52.5°	1124.4	505.9	180.5	152.5	159.7	180.0	185.0	179.7	178.0	177.1	176.6
55°	1211.8	535.2	175.6	148.0	155.9	175.6	184.7	177.9	176.1	176.1	176.1
57.5°	1325.0	579.8	169.2	144.1	150.9	169.8	181.7	175.8	173.5	173.6	173.8
60°	1488.6	654.5	162.1	139.9	144.5	163.2	177.3	172.2	169.4	170.3	170.5
62.5°	1762.0	785.1	152.4	133.8	137.9	156.0	171.7	167.4	164.7	166.2	166.5
65°	2126.5	943.2	139.4	126.4	131.1	148.1	164.3	161.7	158.7	162.6	162.4
67.5°	2348.9	989.6	125.9	118.3	124.3	139.6	155.1	154.1	152.2	158.7	158.3
69°	2275.9	905.8	118.1	113.2	119.7	133.8	149.5	148.9	147.4	153.9	153.4
70°	2162.7	827.5	113.2	110.0	117.3	130.3	145.6	145.6	144.1	149.7	148.6
72.5°	1737.2	613.7	102.0	101.6	108.9	120.6	135.5	136.6	135.7	137.7	136.6
75°	1019.9	369.8	90.9	92.3	98.6	110.2	124.1	125.0	124.1	124.0	124.1
77.5°	353.7	165.8	80.3	82.3	87.9	99.5	111.7	113.5	112.2	110.6	111.1
80°	138.3	96.5	68.7	71.7	76.3	87.6	99.4	100.4	98.5	98.3	96.5
82.5°	83.2	58.7	53.4	58.1	63.9	76.0	85.8	85.3	83.8	93.0	81.3
85°	36.1	32.6	39.0	43.7	46.5	57.0	72.6	70.4	66.7	58.7	57.4
87.5°	14.6	16.9	21.5	26.0	27.9	36.8	49.6	47.9	48.6	40.0	39.6
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)