

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: P271243

Luminaire Tested: **XNV-AF-01-LED-U-SL4-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271243
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24285)
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-SL4-7027-600-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2820.8 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - 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

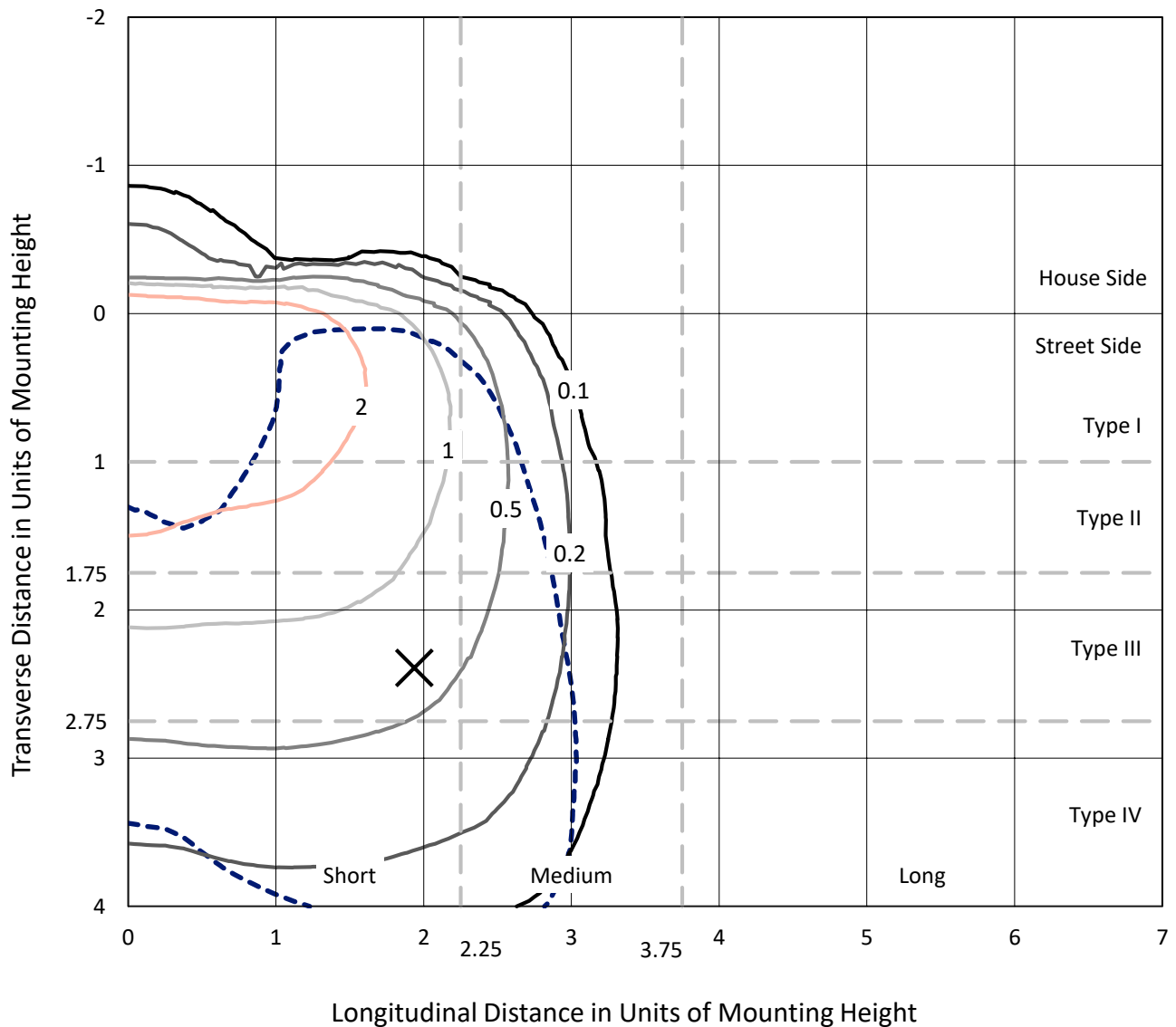


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

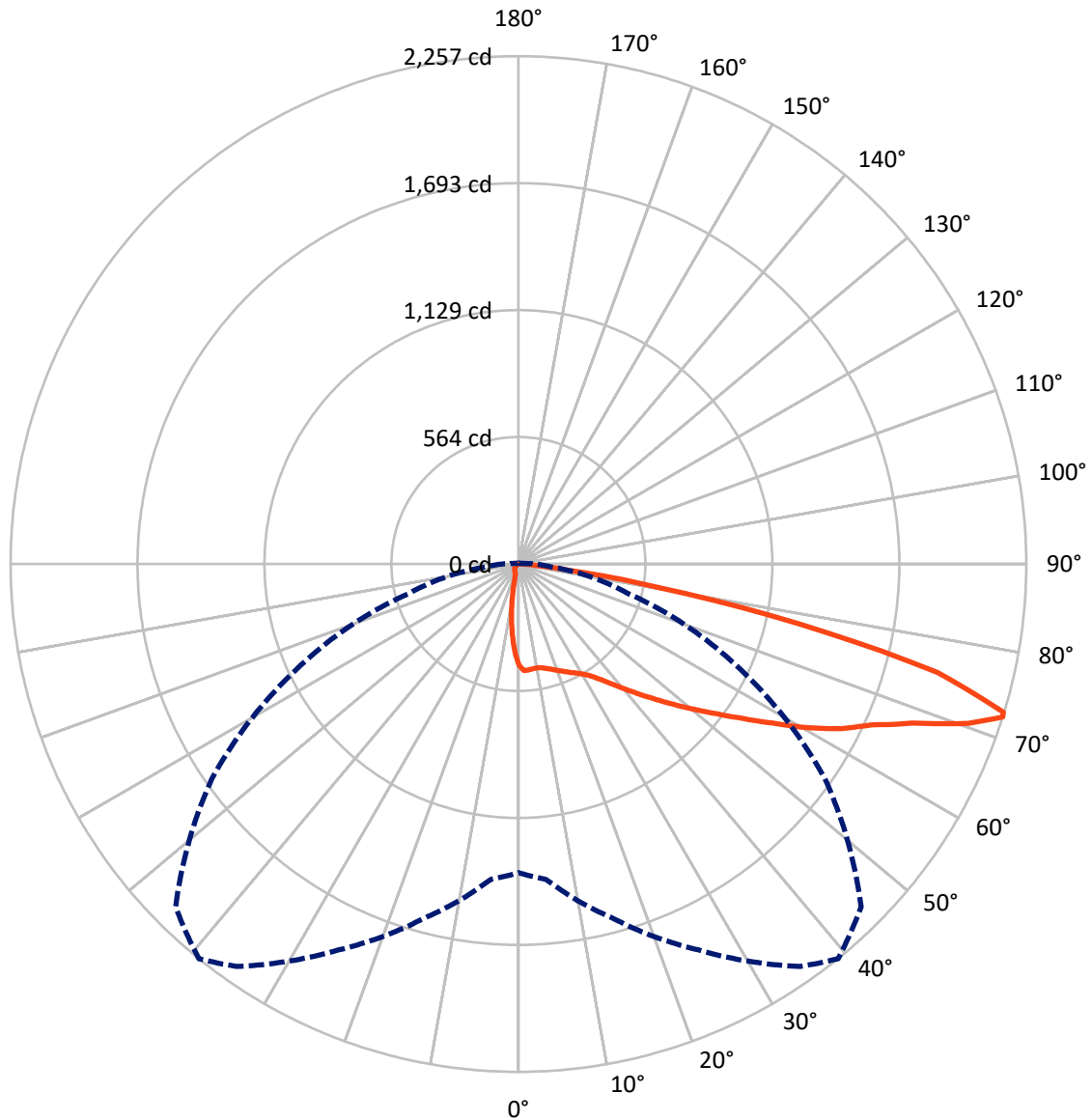


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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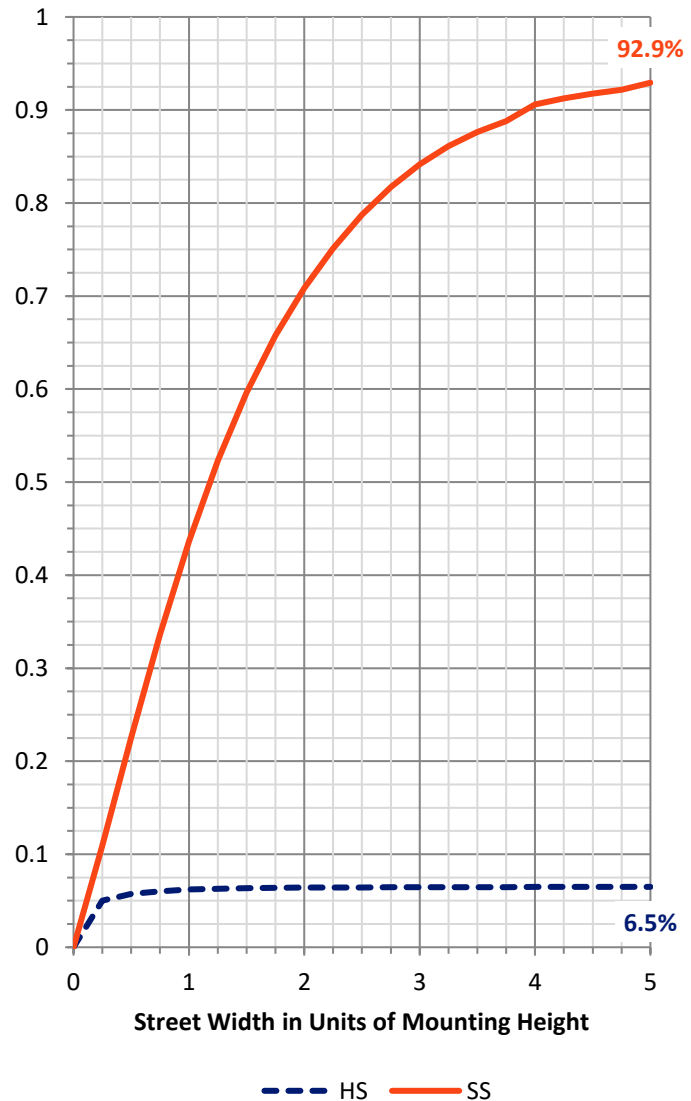
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	184.9	0.0	184.9
	% Fixture	6.6	0.0	6.6
Street Side	Lumens	2635.9	0.0	2635.9
	% Fixture	93.4	0.0	93.4
Total	Lumens	2820.8	0.0	2820.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.7	1.3
10°-20°	88.9	3.2
20°-30°	147.7	5.2
30°-40°	235.3	8.3
40°-50°	388.4	13.8
50°-60°	586.6	20.8
60°-70°	764.2	27.1
70°-80°	516.4	18.3
80°-90°	56.6	2.0
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°	2820.8	100.0
0°-180°	2820.8	100.0

Coefficient of Utilization



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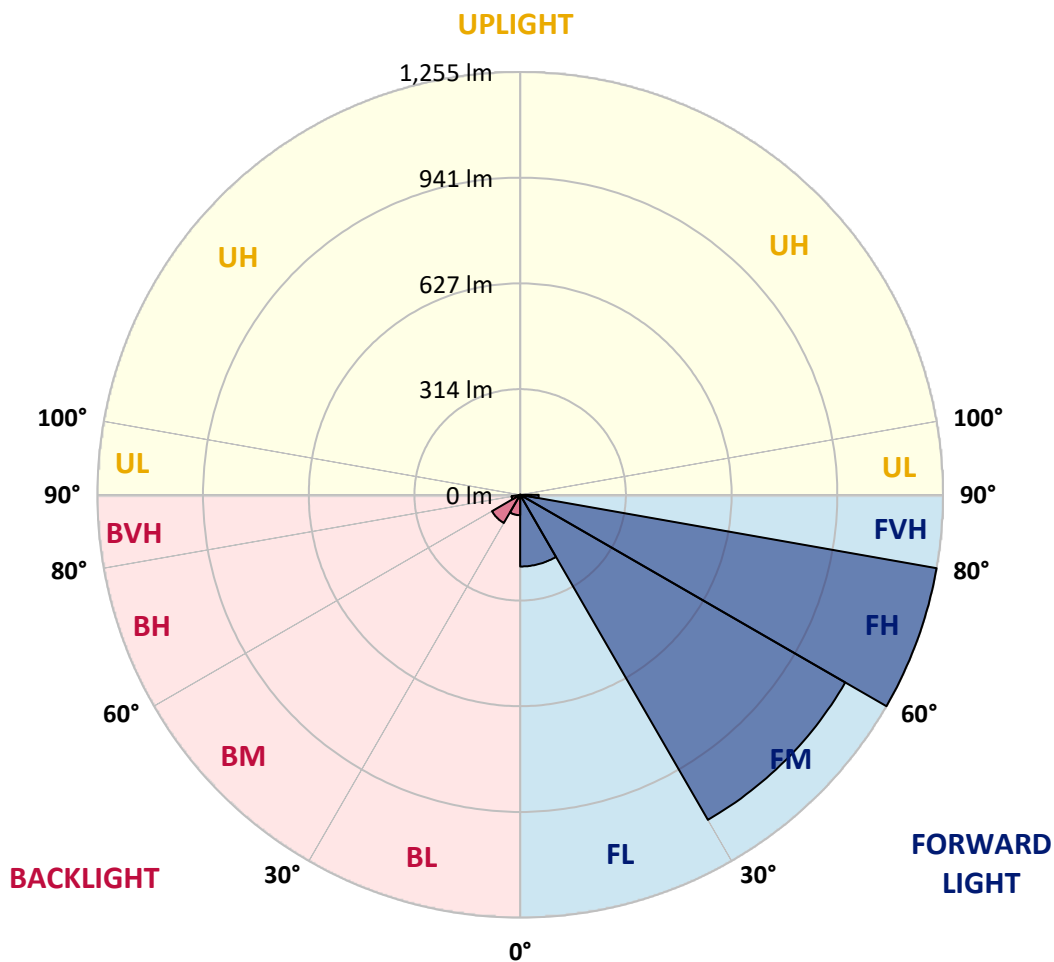
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	212.8	7.5			
FM (30°-60°)	1113.7	39.5			
FH (60°-80°)	1254.6	44.5			G1/1800
FVH (80°-90°)	54.9	1.9			G1/100
BL (0°-30°)	60.5	2.1	B0/110		
BM (30°-60°)	96.7	3.4	B0/220		
BH (60°-80°)	26.0	0.9	B0/110		G0/110
BVH (80°-90°)	1.6	0.1			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	451.5	451.5	451.5	451.5	451.5	451.5	451.5	451.5	451.5	451.5	451.5
2.5°	480.8	481.6	480.6	478.5	475.7	473.9	471.4	466.1	459.5	453.7	447.0
5°	484.5	484.9	483.6	479.9	475.5	473.0	470.0	464.2	457.2	449.2	437.2
7.5°	485.7	485.4	483.8	479.2	472.2	469.3	464.0	456.8	449.7	442.3	428.9
10°	485.2	485.2	484.0	479.6	471.9	469.0	463.0	455.5	446.5	439.4	424.9
12.5°	483.6	484.5	483.8	481.4	475.7	473.4	468.0	460.7	452.1	444.7	429.3
15°	485.7	487.1	488.3	487.4	484.0	482.1	477.2	469.5	462.5	454.6	438.2
17.5°	493.6	496.6	499.5	499.8	496.3	492.7	487.2	479.2	472.6	465.2	447.4
20°	508.7	511.0	516.6	517.9	510.6	505.6	497.8	488.5	481.9	475.7	456.1
22.5°	531.1	533.6	538.2	536.6	524.7	518.7	508.9	498.3	491.5	487.9	466.1
25°	565.0	565.8	566.8	560.0	540.2	533.6	521.6	509.6	503.9	503.6	480.4
27.5°	604.9	605.8	601.0	585.6	557.5	548.9	535.3	524.4	521.7	525.1	498.3
30°	650.6	650.8	637.3	612.5	577.4	567.9	554.0	541.9	544.5	552.5	521.3
32.5°	697.4	695.2	676.6	644.2	604.6	593.2	581.3	569.3	576.4	592.9	555.1
35°	740.3	739.3	717.3	679.7	640.2	630.0	621.4	608.7	620.2	647.3	601.0
37.5°	783.1	782.3	757.4	718.0	683.9	676.6	670.1	660.3	679.2	719.0	662.4
40°	830.3	829.1	798.4	760.7	734.6	730.7	726.9	722.6	754.8	810.0	738.9
42.5°	888.6	883.7	841.7	806.9	790.6	791.6	791.9	796.1	846.5	918.4	829.1
45°	955.5	944.7	885.5	856.7	852.0	858.6	865.2	882.8	953.1	1043.3	928.8
47.5°	1020.5	1003.0	935.8	910.1	919.5	933.3	949.2	983.5	1072.8	1173.9	1019.3
50°	1076.3	1058.5	985.7	964.4	994.8	1015.2	1043.6	1095.3	1199.2	1284.3	1076.3
52.5°	1120.2	1106.2	1038.5	1024.2	1078.1	1106.2	1150.6	1218.6	1318.5	1357.1	1116.4
55°	1152.6	1145.6	1089.0	1091.0	1170.9	1211.3	1266.6	1343.3	1419.2	1413.7	1146.2
57.5°	1189.3	1183.6	1142.0	1169.8	1282.4	1334.5	1398.7	1460.3	1492.4	1459.0	1175.5
60°	1226.7	1228.5	1206.3	1265.2	1420.3	1478.0	1533.9	1549.1	1555.1	1505.2	1206.3
62.5°	1255.1	1262.7	1264.6	1367.9	1561.9	1611.0	1635.2	1624.3	1623.0	1567.2	1203.9
65°	1287.7	1307.5	1340.2	1480.9	1690.4	1722.8	1740.0	1755.7	1722.6	1585.5	1085.4
67.5°	1344.0	1375.0	1449.0	1619.3	1839.0	1886.9	1935.8	1919.3	1737.4	1398.7	826.9
70°	1420.0	1457.8	1588.2	1799.9	2040.5	2120.8	2161.9	1906.2	1475.0	966.3	436.1
72°	1372.0	1406.3	1631.2	1892.2	2183.3	2257.0	2154.3	1662.8	1069.3	501.0	146.2
72.5°	1325.4	1360.9	1617.5	1891.1	2197.6	2253.8	2105.3	1566.6	946.3	389.9	100.7
75°	919.5	964.4	1386.7	1700.0	1984.4	1922.6	1610.8	948.6	342.9	67.0	33.2
77.5°	475.5	510.0	841.2	1201.3	1383.1	1266.6	951.9	411.6	95.0	35.5	22.0
80°	294.7	311.8	393.4	591.9	718.5	628.5	420.0	166.4	60.7	21.1	17.4
82.5°	152.5	165.6	247.8	238.8	265.4	220.7	155.0	139.2	37.5	13.0	18.0
85°	50.1	53.2	152.2	158.8	113.5	76.3	68.7	132.8	10.9	8.4	15.4
87.5°	6.6	7.7	53.4	90.9	55.9	34.6	41.2	46.8	3.8	4.6	4.2
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°	451.5	451.5	451.5	451.5	451.5	451.5	451.5	451.5	451.5	451.5	451.5
2.5°	442.7	439.7	430.6	421.6	411.2	401.6	394.0	389.1	391.4	384.0	385.2
5°	430.0	422.7	402.7	381.2	358.0	336.1	318.9	306.1	303.5	292.5	292.9
7.5°	417.8	405.9	373.4	337.9	299.3	268.1	239.7	214.9	206.0	196.9	191.6
10°	411.2	394.7	348.8	297.2	242.8	196.9	157.1	125.8	112.6	103.1	98.5
12.5°	413.1	391.4	330.3	260.1	188.7	130.3	88.8	65.8	57.9	53.4	51.9
15°	419.8	392.1	313.8	223.9	137.4	79.0	52.1	44.6	43.8	43.7	43.5
17.5°	425.9	392.6	296.3	186.3	91.7	50.3	42.0	41.2	41.2	41.2	41.2
20°	432.4	393.0	276.9	146.9	60.4	41.2	39.4	39.0	39.4	39.4	39.4
22.5°	440.0	394.4	258.4	108.4	44.6	38.7	37.6	37.5	37.6	37.6	37.5
25°	449.2	397.8	238.2	77.7	40.3	37.3	36.1	35.9	36.1	35.9	35.9
27.5°	461.6	402.3	214.7	55.7	38.5	35.8	34.6	34.6	34.6	34.3	34.3
30°	477.7	407.7	183.2	43.8	36.8	34.1	33.2	33.2	33.1	32.8	32.8
32.5°	500.4	416.3	148.8	39.6	34.9	32.2	31.4	31.5	31.4	31.0	30.8
35°	532.9	429.7	114.9	37.5	32.8	30.2	29.3	29.3	29.3	28.8	28.8
37.5°	578.8	450.4	86.1	35.3	30.8	28.1	27.0	27.0	26.8	26.4	26.6
40°	635.6	476.3	62.3	33.2	28.8	26.0	25.1	24.7	24.2	23.7	23.7
42.5°	703.8	501.7	46.8	31.4	26.8	24.2	23.0	22.5	21.6	21.3	21.1
45°	780.4	528.5	38.7	28.8	24.7	22.2	21.3	20.4	19.4	18.7	18.4
47.5°	844.9	544.8	34.6	26.4	22.4	20.2	19.4	18.0	16.6	16.2	16.2
50°	883.7	537.9	31.0	24.0	20.2	18.1	17.1	15.4	14.5	14.0	13.7
52.5°	905.4	517.6	28.1	22.0	18.1	16.0	14.5	12.8	12.4	11.9	11.9
55°	920.3	488.0	25.1	19.9	16.3	14.0	12.1	11.0	10.6	10.4	10.2
57.5°	934.4	452.1	22.2	18.1	14.6	12.4	10.4	10.1	9.2	8.9	8.9
60°	938.6	402.7	19.6	16.2	13.0	10.9	9.2	8.4	7.5	7.4	7.4
62.5°	885.0	320.4	17.2	13.7	11.5	9.3	7.9	7.0	6.2	6.2	6.2
65°	739.6	217.5	14.8	11.9	10.2	7.9	6.8	5.7	5.3	5.3	5.3
67.5°	515.1	121.4	12.7	10.2	8.7	6.6	5.7	4.9	4.6	4.9	4.9
70°	232.2	48.1	10.6	8.4	7.0	5.5	4.9	4.2	4.6	4.6	4.6
72°	69.6	25.7	8.9	6.8	5.7	4.9	4.2	4.0	4.4	4.6	4.6
72.5°	51.7	23.0	8.4	6.6	5.7	4.6	4.0	4.0	4.4	4.6	4.6
75°	26.6	15.7	6.5	4.9	4.2	3.8	3.4	3.8	4.4	4.4	4.4
77.5°	20.8	12.8	5.3	3.8	3.6	3.4	3.1	3.6	4.0	4.0	4.0
80°	19.6	8.4	4.2	3.6	3.1	2.9	2.9	3.1	3.6	3.8	3.8
82.5°	19.8	6.8	3.8	3.4	2.9	2.6	2.6	2.9	3.4	3.6	3.6
85°	12.7	4.6	3.4	2.9	2.6	2.4	2.4	2.6	3.1	3.4	3.4
87.5°	4.2	3.6	2.9	2.6	2.2	2.2	2.2	2.2	2.6	2.9	3.1
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)