

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: P198570

Luminaire Tested: **XNV-AF-01-LED-U-SL4-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198570
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24284)
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-SL4-7030-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3366 lumens
Efficiency: N/A
Efficacy: 99.0 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 - G2

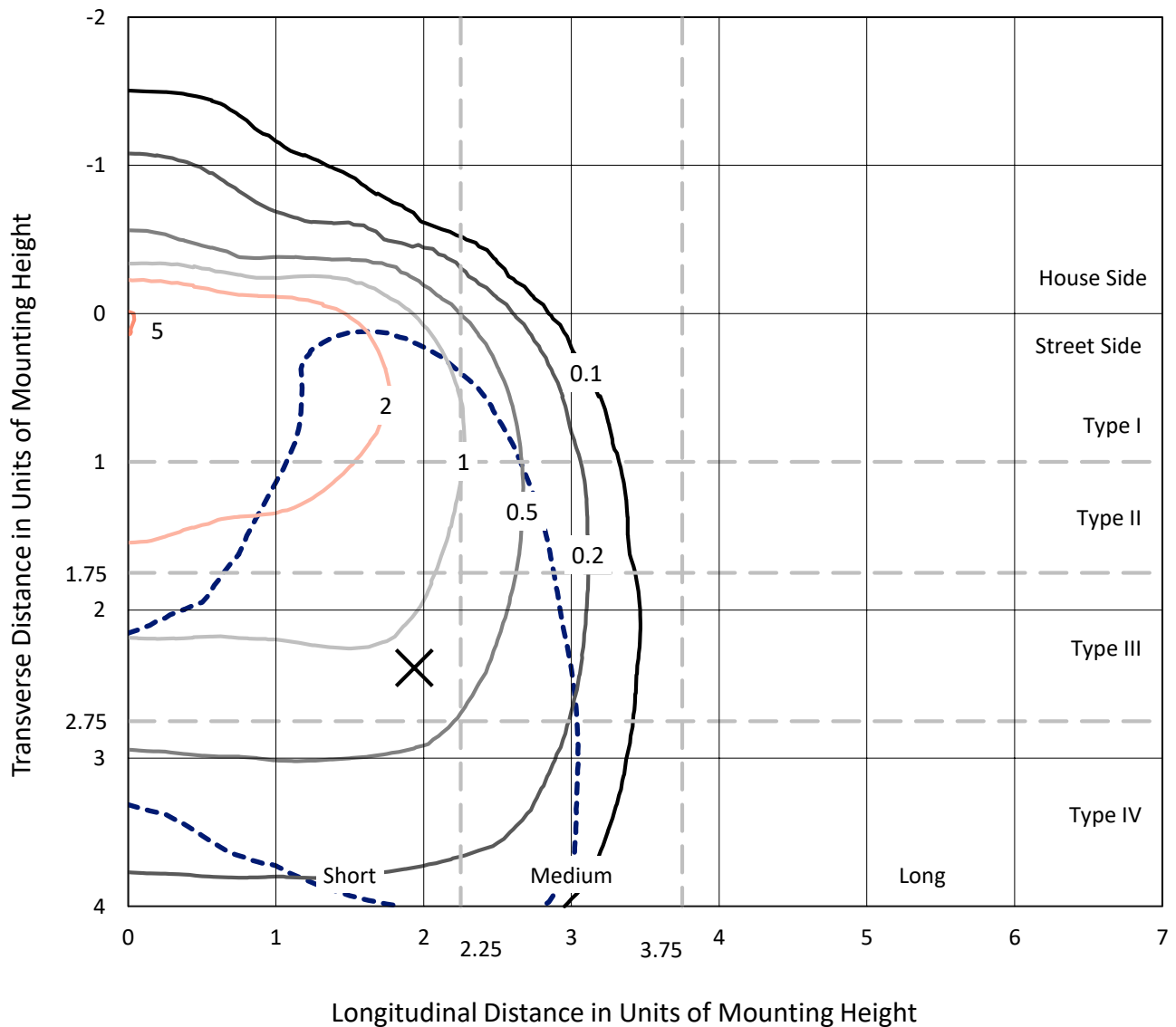
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

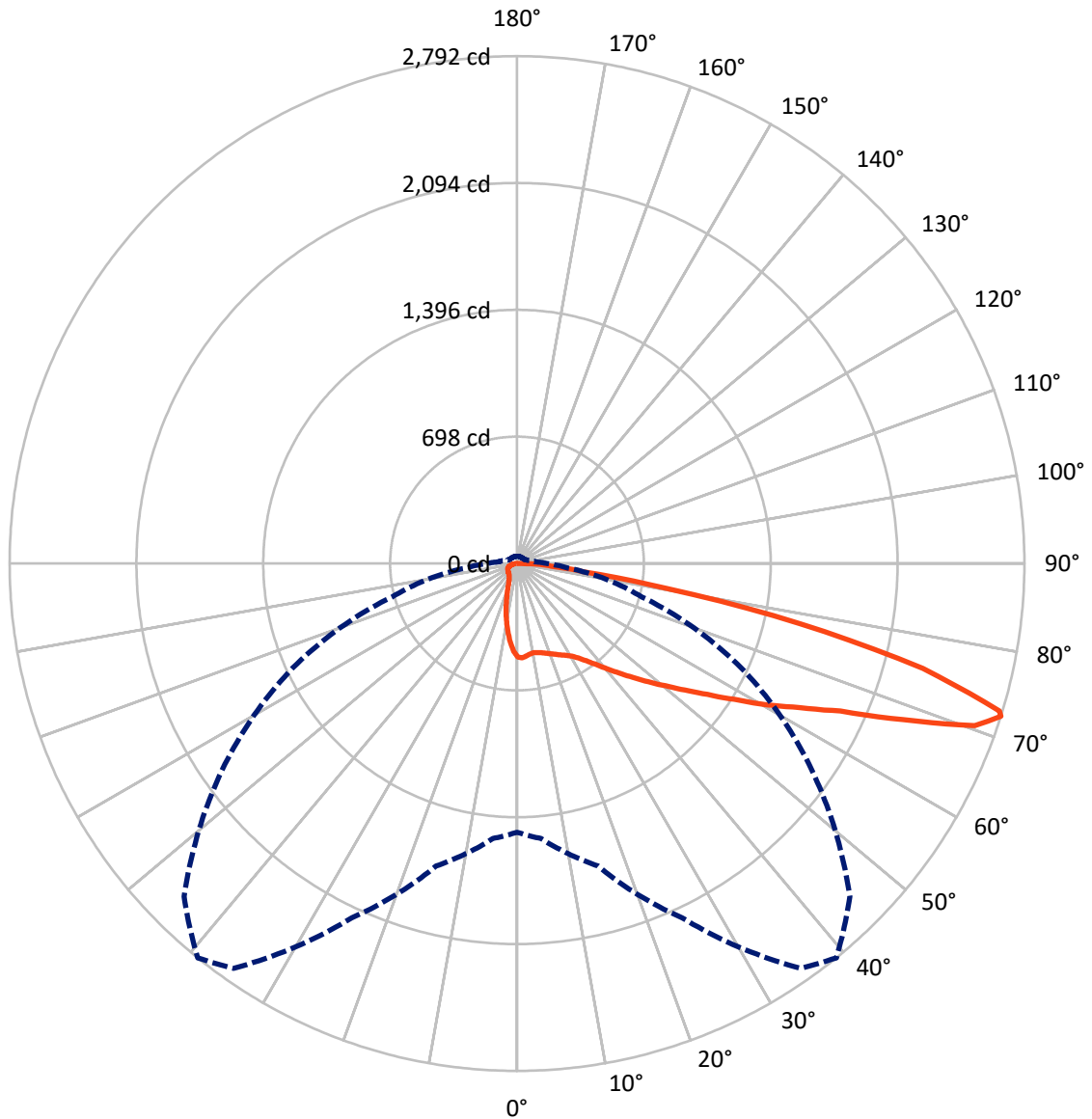
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.1 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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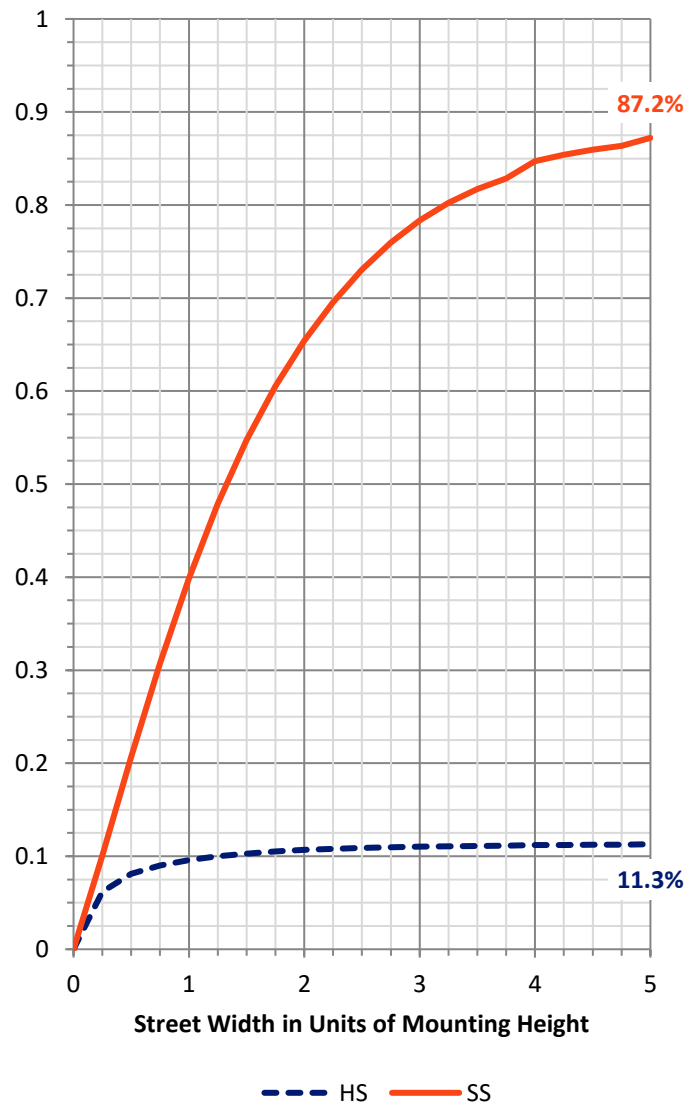
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	386.0	0.0	386.0
	% Fixture	11.5	0.0	11.5
Street Side	Lumens	2980.0	0.0	2980.0
	% Fixture	88.5	0.0	88.5
Total	Lumens	3366.0	0.0	3366.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.2	1.3
10°-20°	111.0	3.3
20°-30°	173.0	5.1
30°-40°	266.3	7.9
40°-50°	434.2	12.9
50°-60°	674.7	20.0
60°-70°	903.1	26.8
70°-80°	649.4	19.3
80°-90°	110.1	3.3
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°	3366.0	100.0
0°-180°	3366.0	100.0



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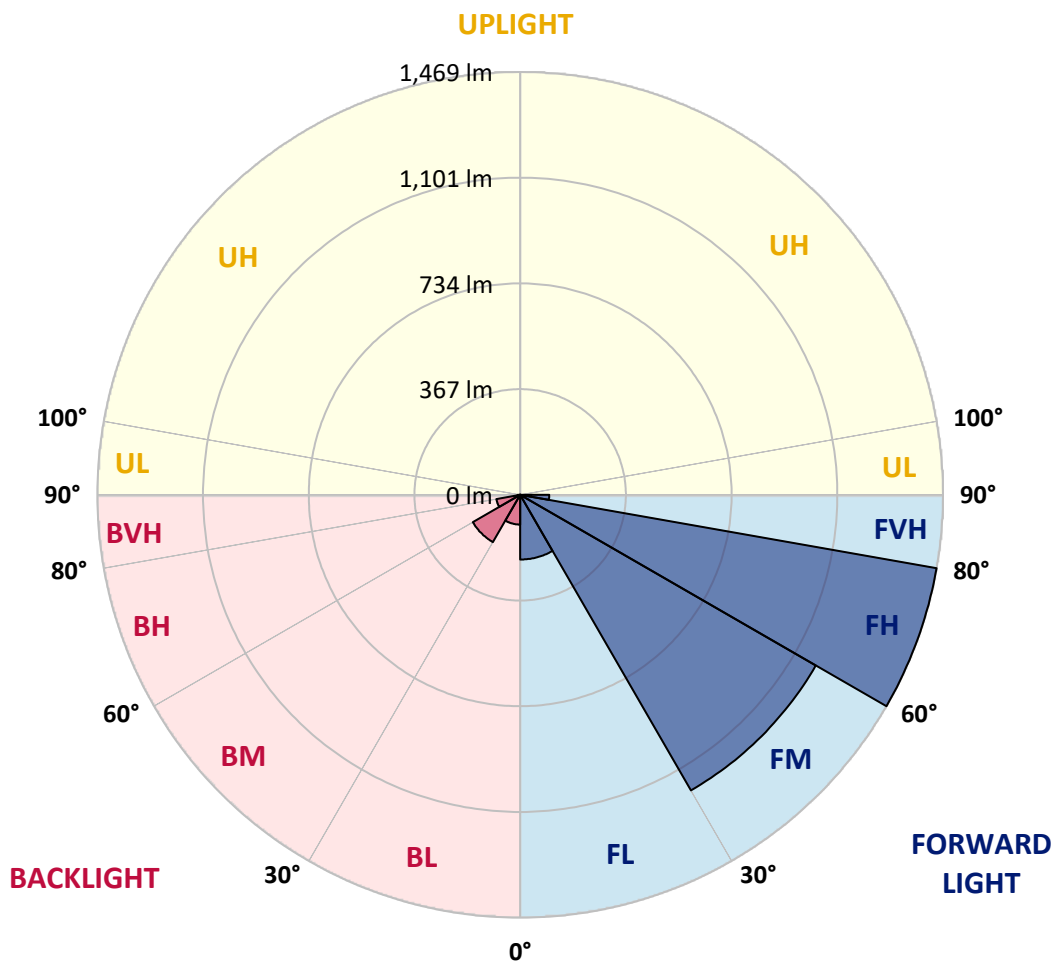
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	224.8	6.7			
FM (30°-60°)	1185.6	35.2			
FH (60°-80°)	1468.6	43.6			G1/1800
FVH (80°-90°)	101.0	3.0			G2/225
BL (0°-30°)	103.3	3.1	B0/110		
BM (30°-60°)	189.7	5.6	B0/220		
BH (60°-80°)	83.9	2.5	B0/110		G0/110
BVH (80°-90°)	9.1	0.3			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0
2.5°	525.1	525.3	524.7	522.6	520.8	519.9	518.3	515.6	512.0	509.5	507.5
5°	520.1	520.8	520.4	517.0	513.8	512.0	509.5	505.7	500.9	498.9	494.2
7.5°	516.3	516.8	515.4	511.6	505.5	503.2	498.7	493.7	489.4	486.5	480.8
10°	513.6	514.0	512.9	509.1	502.3	499.6	494.2	488.7	483.1	479.5	473.2
12.5°	509.8	510.7	510.7	508.9	504.3	502.5	497.1	491.2	486.0	482.2	474.3
15°	509.1	510.2	512.2	512.0	510.7	509.3	505.0	499.1	494.6	490.1	480.4
17.5°	514.7	517.2	521.3	522.6	521.7	518.8	513.8	508.4	503.4	499.1	487.2
20°	529.0	530.3	536.4	539.1	534.6	530.3	523.8	516.8	512.2	508.9	493.5
22.5°	550.4	552.2	557.2	557.4	547.9	542.7	534.4	525.8	521.5	520.1	502.1
25°	584.8	584.3	585.7	580.0	562.9	556.8	546.6	536.6	533.7	536.4	514.7
27.5°	625.9	624.8	620.5	605.8	579.8	571.9	559.7	550.9	550.9	557.2	531.9
30°	673.3	672.2	658.2	633.6	599.9	590.9	578.0	568.7	573.5	585.7	555.2
32.5°	723.5	719.4	699.8	666.8	628.6	618.7	606.2	596.7	605.8	626.6	588.6
35°	770.7	768.5	744.3	705.2	665.7	657.3	648.7	637.0	651.4	683.7	635.8
37.5°	819.5	817.7	788.1	746.6	710.9	705.2	698.0	689.8	713.1	755.6	699.8
40°	874.0	870.4	833.1	791.5	763.5	760.8	757.0	754.7	792.2	855.5	780.7
42.5°	935.7	928.7	880.5	841.0	820.9	823.2	821.1	830.2	887.6	970.7	876.9
45°	1006.2	992.2	927.8	893.7	884.4	893.4	897.7	920.8	1000.3	1103.8	984.5
47.5°	1072.2	1054.1	979.5	950.8	956.0	971.6	983.8	1024.5	1123.9	1235.3	1094.3
50°	1132.9	1112.6	1034.9	1010.0	1035.3	1057.5	1082.8	1140.2	1255.4	1370.6	1195.1
52.5°	1177.9	1163.2	1090.2	1074.6	1126.4	1155.8	1196.2	1268.7	1388.3	1499.7	1285.0
55°	1212.7	1204.8	1144.2	1148.8	1229.4	1271.5	1320.5	1403.9	1528.8	1615.4	1357.3
57.5°	1252.9	1247.0	1205.9	1238.2	1357.3	1410.2	1468.0	1560.7	1662.6	1717.3	1414.0
60°	1295.4	1295.4	1274.6	1346.0	1517.3	1577.8	1635.5	1707.5	1795.9	1809.0	1437.1
62.5°	1327.5	1335.8	1343.3	1460.8	1669.1	1744.4	1807.6	1876.8	1934.0	1854.2	1382.8
65°	1374.0	1391.9	1433.9	1593.4	1857.1	1955.6	2041.1	2099.1	2045.8	1818.3	1205.9
67.5°	1454.0	1480.5	1569.9	1790.9	2145.0	2292.5	2375.5	2275.1	2023.9	1592.1	923.7
70°	1526.1	1563.4	1716.4	2041.5	2519.2	2672.4	2634.2	2234.2	1762.7	1167.1	568.3
72°	1478.2	1518.9	1723.1	2150.6	2719.1	2791.5	2590.1	1980.0	1362.1	712.2	280.2
72.5°	1446.8	1489.0	1701.2	2147.9	2724.6	2776.3	2528.9	1879.0	1236.4	623.2	226.6
75°	1208.6	1244.8	1462.8	1903.7	2401.0	2306.1	1973.5	1216.1	568.3	201.3	116.6
77.5°	789.3	816.8	1008.7	1318.9	1681.8	1590.5	1201.2	569.4	213.1	122.2	87.7
80°	396.6	416.2	539.8	693.5	907.7	835.1	554.5	275.4	142.6	88.3	68.9
82.5°	275.9	294.0	371.7	354.1	379.4	367.2	260.8	229.8	106.7	55.8	36.2
85°	231.4	250.1	307.5	252.4	206.5	188.2	186.9	217.1	70.5	27.6	30.5
87.5°	201.8	230.2	253.7	184.4	141.7	125.0	137.6	199.1	22.4	15.1	9.3
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°	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0	514.0
2.5°	504.1	503.4	500.0	494.8	491.0	488.5	483.8	483.5	484.0	479.9	481.5
5°	489.9	487.2	478.3	466.4	456.7	447.4	437.2	433.8	430.9	424.8	425.5
7.5°	475.0	470.2	454.8	435.2	416.4	399.3	382.3	374.0	367.6	359.7	359.7
10°	466.1	458.7	435.2	406.5	376.7	351.6	326.3	311.1	300.1	289.9	289.2
12.5°	465.7	454.4	421.6	382.1	341.2	305.9	271.4	248.1	231.6	219.6	218.5
15°	469.3	453.5	410.3	359.3	307.8	261.9	219.2	189.6	168.6	155.2	153.9
17.5°	472.5	452.4	398.1	335.3	275.2	219.4	172.0	141.2	121.3	110.5	109.4
20°	475.4	449.9	382.5	310.0	239.3	179.6	134.4	109.6	96.5	90.4	89.7
22.5°	479.7	447.6	366.3	281.5	204.0	146.2	110.9	93.1	86.1	83.2	82.7
25°	486.7	447.8	350.5	252.4	171.7	121.8	96.0	85.0	81.1	79.1	79.1
27.5°	496.9	450.6	334.9	222.8	144.4	105.1	87.2	80.7	78.2	76.6	76.1
30°	511.8	455.5	318.4	194.8	122.7	93.5	82.0	78.0	75.9	74.6	74.3
32.5°	533.5	464.3	301.0	169.2	106.2	85.4	78.2	75.7	74.1	73.0	72.8
35°	565.8	479.9	284.0	147.5	94.4	79.5	75.0	73.0	72.1	71.6	71.4
37.5°	613.2	505.0	268.0	130.6	86.8	75.7	71.9	70.7	70.3	70.3	70.3
40°	672.9	538.0	253.5	118.6	82.5	72.8	69.6	68.7	68.7	68.9	68.9
42.5°	745.4	579.3	241.1	110.5	80.0	70.7	68.0	67.6	67.3	67.3	67.6
45°	829.7	628.2	233.4	104.2	78.2	69.6	66.9	66.7	65.8	65.3	65.3
47.5°	914.4	680.4	233.0	100.6	75.9	68.2	65.8	65.8	63.9	63.0	63.3
50°	993.5	727.1	237.9	99.6	74.6	66.2	64.6	64.8	62.4	61.2	61.0
52.5°	1057.2	762.8	244.0	100.8	74.6	64.4	62.6	63.7	61.0	59.7	59.4
55°	1106.5	787.7	246.3	103.3	75.5	62.8	60.8	62.6	60.6	58.7	58.7
57.5°	1141.8	795.6	236.6	104.4	76.8	62.6	59.0	62.4	61.2	59.0	59.0
60°	1128.9	749.7	200.4	100.1	76.6	62.1	57.6	62.8	63.5	61.0	61.0
62.5°	1028.3	627.3	160.9	90.4	72.8	60.6	56.0	62.4	65.1	64.2	63.7
65°	837.2	460.0	124.7	78.9	66.2	57.2	52.6	58.3	61.5	62.4	62.6
67.5°	590.0	291.3	96.9	67.1	58.1	52.2	48.8	51.5	52.6	53.1	54.0
70°	322.7	157.7	77.1	56.5	49.7	47.2	44.7	45.0	44.5	44.1	44.5
72°	162.0	103.0	65.1	49.0	44.1	42.5	41.3	40.7	40.7	40.0	40.2
72.5°	139.4	95.8	62.8	47.2	42.7	41.3	40.4	39.8	39.5	39.1	39.3
75°	92.9	75.9	52.4	39.5	36.4	35.5	35.9	35.2	35.5	35.0	35.2
77.5°	75.0	65.3	44.5	33.4	31.2	29.8	30.7	31.0	31.4	31.0	30.7
80°	62.8	55.6	37.3	27.6	26.0	24.9	25.3	26.9	27.1	25.8	25.5
82.5°	40.7	44.7	29.4	21.5	19.9	19.4	20.6	22.1	22.6	20.8	20.3
85°	34.1	35.9	21.2	14.7	13.1	12.7	14.9	16.5	17.6	15.8	15.4
87.5°	9.5	17.6	10.4	7.0	5.9	5.9	7.2	8.6	10.2	10.4	10.4
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)