

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: P198850

Luminaire Tested: **XNV-AF-01-LED-U-SL2-7050-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24258)
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-SL2-7050-600-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3250 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Semi-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

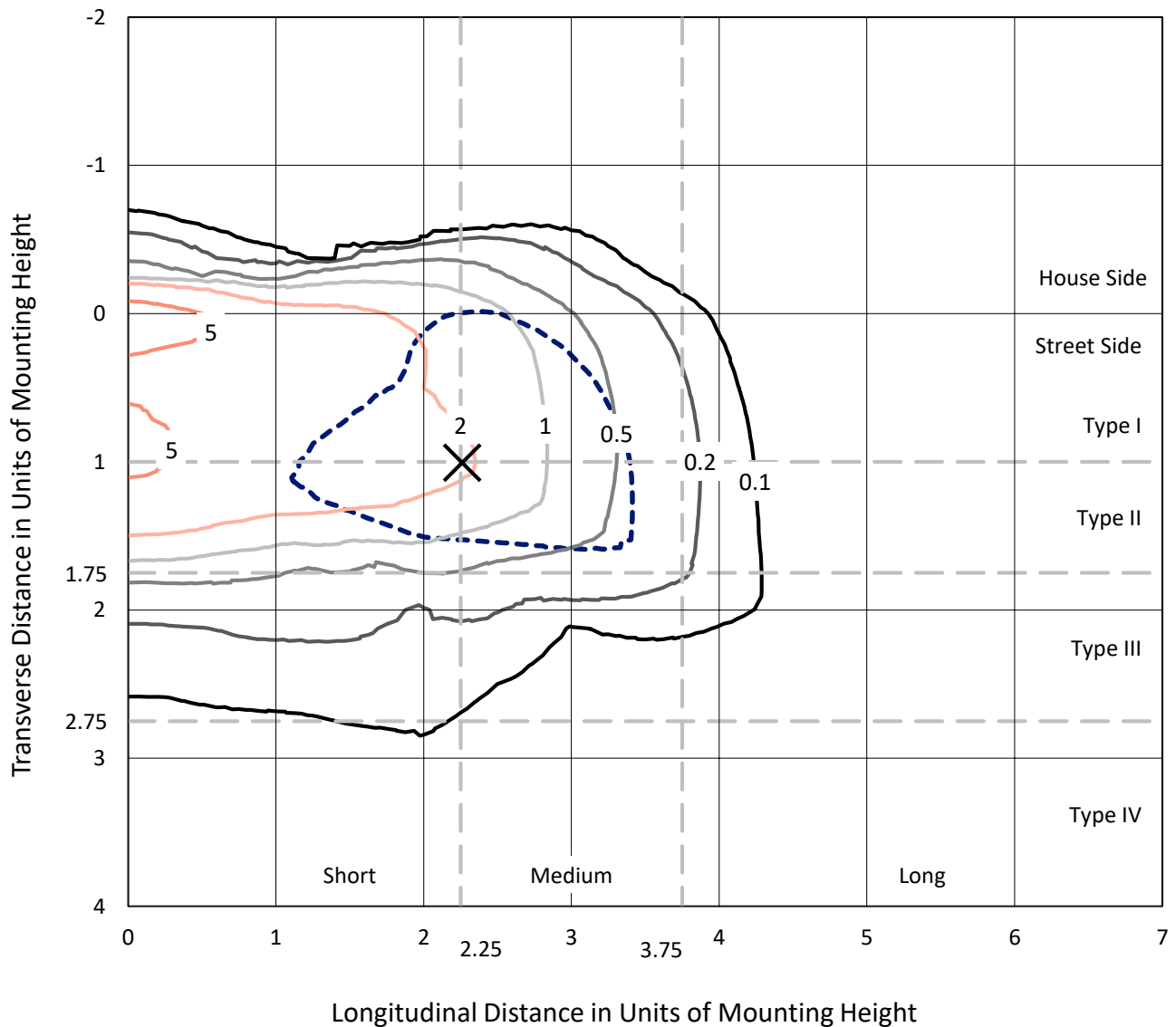


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

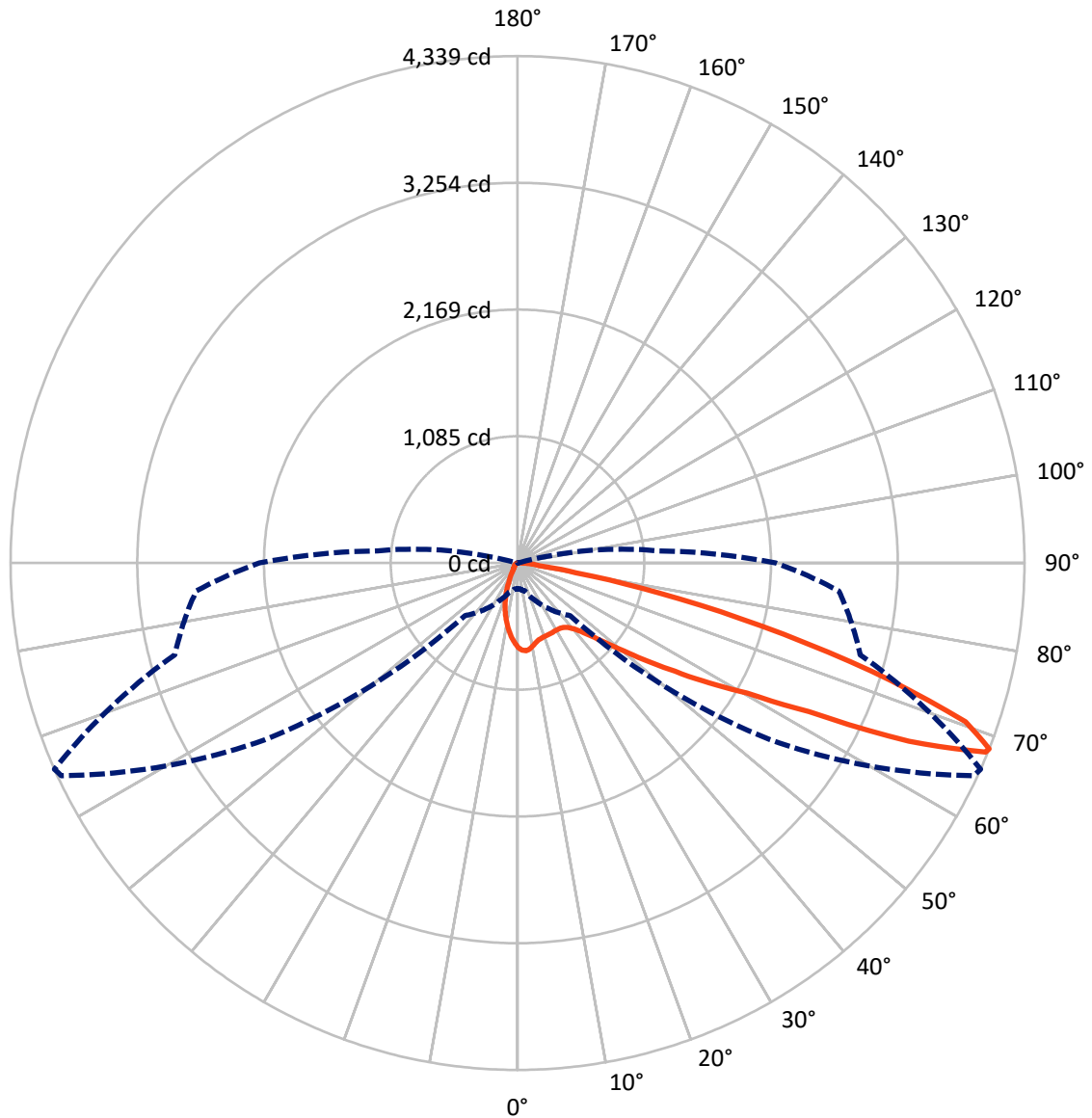


Based on 10 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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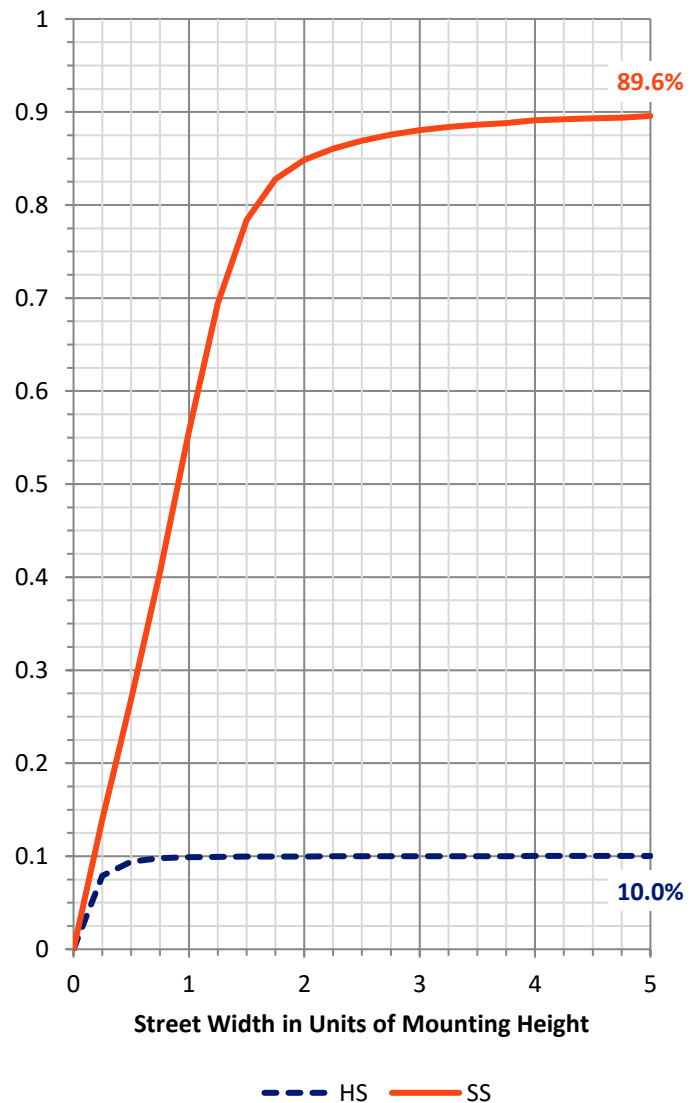
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	329.2	0.0	329.2
	% Fixture	10.1	0.0	10.1
Street Side	Lumens	2920.8	0.0	2920.8
	% Fixture	89.9	0.0	89.9
Total	Lumens	3250.0	0.0	3250.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.4	1.8
10°-20°	127.7	3.9
20°-30°	185.1	5.7
30°-40°	283.3	8.7
40°-50°	484.6	14.9
50°-60°	758.0	23.3
60°-70°	872.8	26.9
70°-80°	436.8	13.4
80°-90°	42.3	1.3
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°	3250.0	100.0
0°-180°	3250.0	100.0

Coefficient of Utilization



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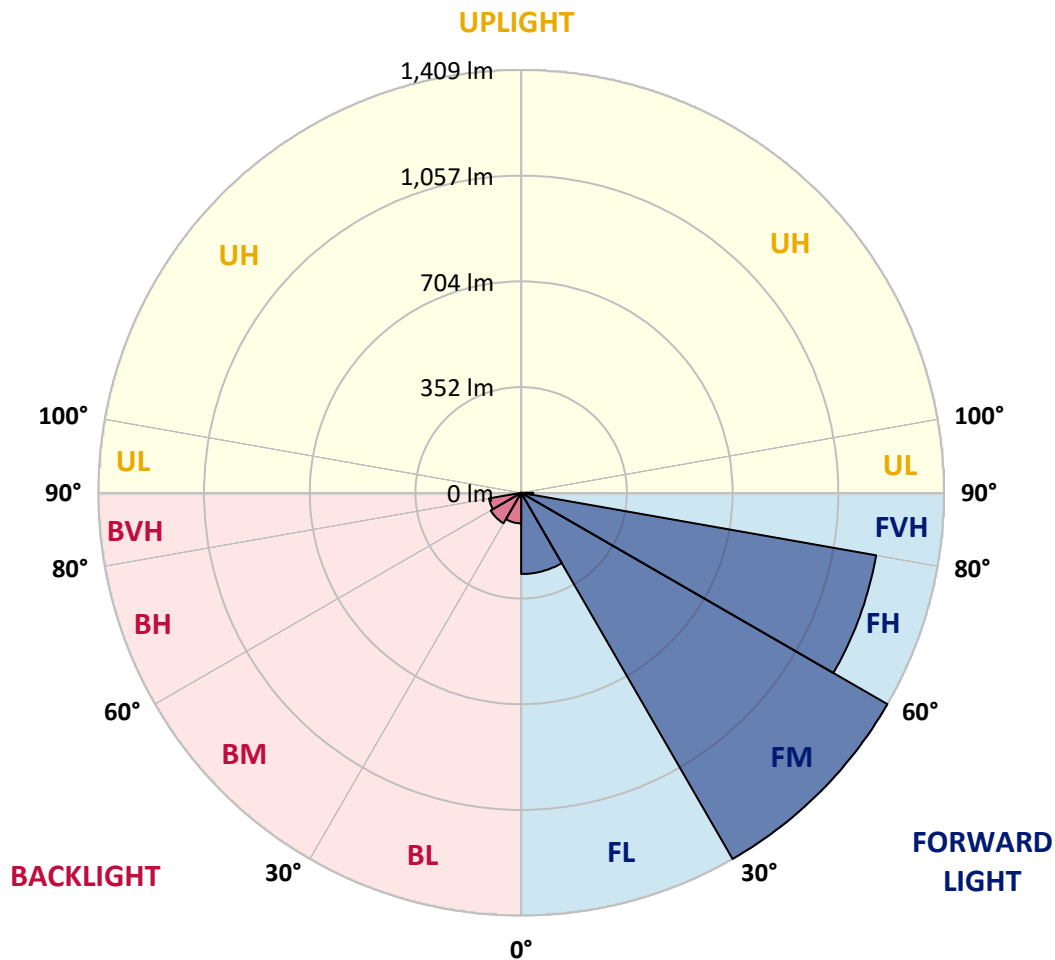
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	270.5	8.3			
FM (30°-60°)	1408.7	43.3			
FH (60°-80°)	1200.9	36.9			G1/1800
FVH (80°-90°)	40.7	1.3			G1/100
BL (0°-30°)	101.6	3.1	B0/110		
BM (30°-60°)	117.2	3.6	B0/220		
BH (60°-80°)	108.8	3.3	B0/110		G0/110
BVH (80°-90°)	1.6	0.0			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	724.1	724.1	724.1	724.1	724.1	724.1	724.1	724.1	724.1	724.1	724.1
2.5°	761.6	762.1	761.8	762.6	762.1	758.3	754.2	745.5	746.3	735.0	722.5
5°	708.0	712.3	716.7	721.0	731.5	740.7	751.6	754.2	754.2	744.5	726.1
7.5°	653.4	653.7	658.5	664.4	678.4	695.2	720.8	743.7	744.2	746.8	726.6
10°	612.3	613.6	616.9	623.3	637.3	653.9	682.5	718.5	721.3	740.1	721.5
12.5°	580.4	582.0	585.5	592.9	605.7	622.8	652.9	694.0	697.8	733.8	720.0
15°	555.9	558.0	560.8	568.2	582.0	600.1	633.0	677.6	682.2	731.2	724.8
17.5°	545.7	545.7	545.5	550.6	564.4	582.7	617.2	669.0	674.8	733.3	733.0
20°	550.1	549.3	543.9	542.7	551.1	569.5	604.7	663.3	670.0	737.1	742.9
22.5°	573.0	571.5	559.5	549.6	547.0	559.3	596.2	659.5	667.4	745.0	756.2
25°	621.8	617.2	600.6	578.1	558.0	556.7	590.4	657.5	665.9	754.2	770.8
27.5°	685.0	683.8	657.2	627.1	588.3	565.1	588.6	655.9	664.4	760.8	782.5
30°	763.6	764.1	733.5	694.2	635.5	588.8	594.2	655.2	663.9	761.3	787.6
32.5°	844.7	845.3	819.7	777.6	700.1	629.7	610.0	658.8	666.7	759.3	787.3
35°	922.8	923.6	908.3	874.3	786.3	686.3	639.9	671.0	676.6	760.6	786.8
37.5°	1021.6	1024.6	1005.7	974.1	894.5	769.5	688.6	695.7	700.3	771.0	790.7
40°	1189.9	1185.9	1131.8	1078.2	1011.9	870.8	759.0	738.4	739.9	798.1	805.2
42.5°	1386.1	1381.0	1288.4	1196.1	1132.5	993.0	849.1	803.7	803.4	843.5	836.8
45°	1555.0	1552.0	1454.5	1331.3	1266.2	1127.9	960.1	897.8	894.8	922.1	894.5
47.5°	1675.0	1672.4	1598.7	1475.2	1420.8	1276.4	1098.6	1026.1	1019.8	1024.9	988.1
50°	1686.7	1683.9	1658.1	1578.8	1601.5	1494.3	1269.8	1194.3	1186.1	1178.2	1129.7
52.5°	1577.0	1576.7	1590.2	1585.1	1728.0	1774.7	1479.8	1402.2	1392.5	1372.4	1324.1
55°	1352.7	1351.4	1402.7	1477.2	1725.2	2064.0	1800.0	1649.7	1636.9	1596.6	1533.4
57.5°	988.4	981.8	1088.9	1246.8	1604.0	2190.6	2308.4	1957.1	1936.0	1808.1	1710.7
60°	545.7	548.3	686.1	873.1	1317.0	2165.6	2776.4	2315.6	2260.0	1990.6	1892.3
62.5°	305.9	312.3	414.8	567.4	839.6	1962.7	3027.4	2932.5	2798.6	2203.3	2121.9
65°	231.4	235.2	286.8	437.8	529.4	1371.6	3067.5	3795.1	3679.5	2525.8	2487.6
67.5°	217.9	220.9	246.2	363.1	482.2	711.3	2765.9	4305.4	4319.9	2965.7	2770.8
68°	219.4	223.2	248.5	349.3	481.4	636.3	2637.3	4307.9	4338.8	3036.6	2761.1
70°	201.6	202.6	262.8	342.6	466.6	501.3	1907.9	4012.7	4068.1	3121.0	2506.4
72.5°	77.1	77.3	117.9	296.7	488.8	504.1	961.1	3171.6	3174.4	2716.2	1954.1
75°	40.1	33.7	37.0	92.9	466.9	491.4	482.2	2165.6	2152.1	1837.0	1197.3
77.5°	27.6	23.5	24.7	32.1	194.2	491.1	348.3	1245.3	1242.5	781.5	341.6
80°	15.6	13.5	14.8	27.0	68.1	461.0	324.5	535.3	504.4	137.3	55.4
82.5°	7.9	6.6	7.9	22.7	42.4	290.1	315.6	210.0	187.0	32.7	36.0
85°	2.0	2.0	3.8	15.8	26.3	95.2	282.9	151.5	136.2	14.3	25.5
87.5°	0.5	0.3	1.5	5.9	9.4	20.7	156.9	84.4	72.7	7.4	14.8
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°	724.1	724.1	724.1	724.1	724.1	724.1	724.1	724.1	724.1	724.1	724.1
2.5°	717.4	710.3	696.3	680.4	669.2	657.0	649.8	641.2	634.5	628.6	633.0
5°	714.9	701.1	670.0	635.0	605.7	577.6	556.7	536.8	521.7	512.3	516.1
7.5°	708.3	687.8	637.3	582.7	534.8	489.6	452.9	419.9	394.4	380.7	385.0
10°	697.0	668.2	600.3	524.6	457.5	393.7	339.1	290.1	253.1	235.7	239.8
12.5°	688.9	650.8	562.1	468.4	380.1	289.6	217.1	161.0	132.2	114.8	116.3
15°	685.3	637.3	526.3	409.2	295.7	186.0	117.4	85.0	75.0	71.4	71.7
17.5°	685.8	626.6	492.4	347.7	210.5	106.9	71.9	64.8	63.3	62.5	62.5
20°	687.1	615.9	457.2	283.7	134.7	68.9	60.0	57.7	56.9	55.9	56.1
22.5°	690.9	607.7	421.7	219.4	82.9	56.1	53.1	51.0	49.8	48.2	48.5
25°	696.8	601.6	386.8	157.9	58.4	49.0	46.2	43.4	41.1	39.3	39.5
27.5°	700.3	592.9	349.5	107.7	48.5	42.9	39.0	35.2	32.7	31.1	30.9
30°	697.8	578.9	307.2	70.7	42.9	37.0	32.4	28.1	25.5	24.2	24.2
32.5°	690.9	560.8	260.5	51.5	38.0	31.9	26.3	22.5	20.7	19.9	20.2
35°	683.0	541.9	210.7	43.6	34.2	27.0	21.4	18.4	17.6	17.3	17.3
37.5°	678.7	525.6	163.0	39.5	30.6	22.5	17.6	15.8	15.1	15.1	15.1
40°	683.5	513.1	120.7	36.5	27.0	18.6	14.8	13.5	13.3	13.3	13.3
42.5°	704.2	508.7	88.3	33.9	23.5	15.6	12.8	11.7	11.5	11.7	11.7
45°	744.5	518.2	66.8	31.4	20.2	12.8	11.0	10.2	10.2	10.5	10.5
47.5°	812.9	542.4	54.9	28.8	16.8	10.7	9.4	8.9	8.9	9.2	9.2
50°	919.0	587.3	49.2	26.0	14.0	9.2	7.9	7.7	7.7	7.9	8.2
52.5°	1080.2	672.8	46.4	23.2	11.5	7.7	6.6	6.4	6.6	6.9	6.9
55°	1259.6	782.2	43.1	20.4	9.7	6.4	5.4	5.4	5.6	6.1	6.1
57.5°	1426.7	887.9	40.1	16.8	8.4	5.1	4.3	4.3	4.8	5.4	5.4
60°	1603.3	991.4	36.0	13.5	7.1	4.1	3.6	3.6	4.3	4.8	5.1
62.5°	1821.4	1111.9	30.6	10.7	5.6	3.1	2.6	3.3	4.1	4.8	4.8
65°	2136.7	1261.6	24.0	8.4	4.3	2.3	2.0	3.1	3.8	4.6	4.8
67.5°	2251.3	1242.5	18.1	6.9	3.3	1.8	1.8	2.8	3.8	4.6	4.6
68°	2209.5	1200.7	17.3	6.6	3.1	1.8	1.8	2.8	3.8	4.6	4.6
70°	1925.2	981.5	14.3	5.1	2.6	1.5	1.5	2.6	3.8	4.3	4.6
72.5°	1441.5	652.1	12.2	3.3	2.3	1.5	1.3	2.6	3.6	4.3	4.3
75°	826.9	270.7	10.5	2.6	2.0	1.3	1.3	2.3	3.6	4.3	4.3
77.5°	233.7	63.3	8.4	2.0	1.8	1.3	1.0	2.3	3.3	4.1	4.1
80°	42.9	18.9	6.6	1.8	1.5	1.3	1.0	2.3	3.3	4.1	4.1
82.5°	28.3	8.9	4.8	1.8	1.5	1.3	1.0	2.0	3.1	3.8	3.8
85°	21.2	6.4	3.1	1.8	1.5	1.3	1.0	2.0	3.1	3.8	3.8
87.5°	11.7	2.8	2.3	2.0	1.8	1.3	1.0	1.8	2.8	3.6	3.6
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)