

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: P198532

Luminaire Tested: **XNV-AF-01-LED-U-SL2-7030-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198532  
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-SL2-7030-800-HSS  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 800mA 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: 3528 lumens  
Efficiency: N/A  
Efficacy: 80.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 44  
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

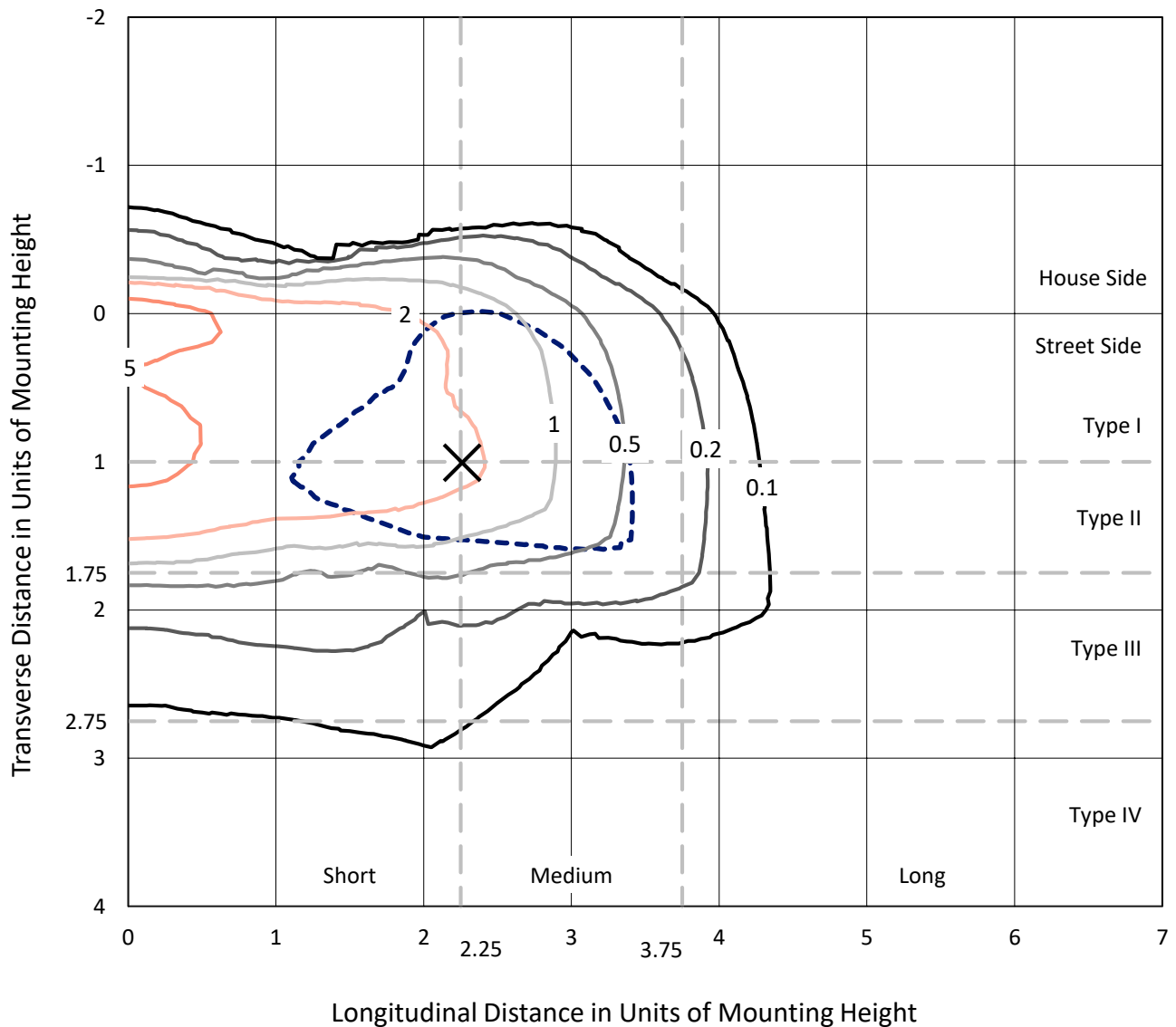


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

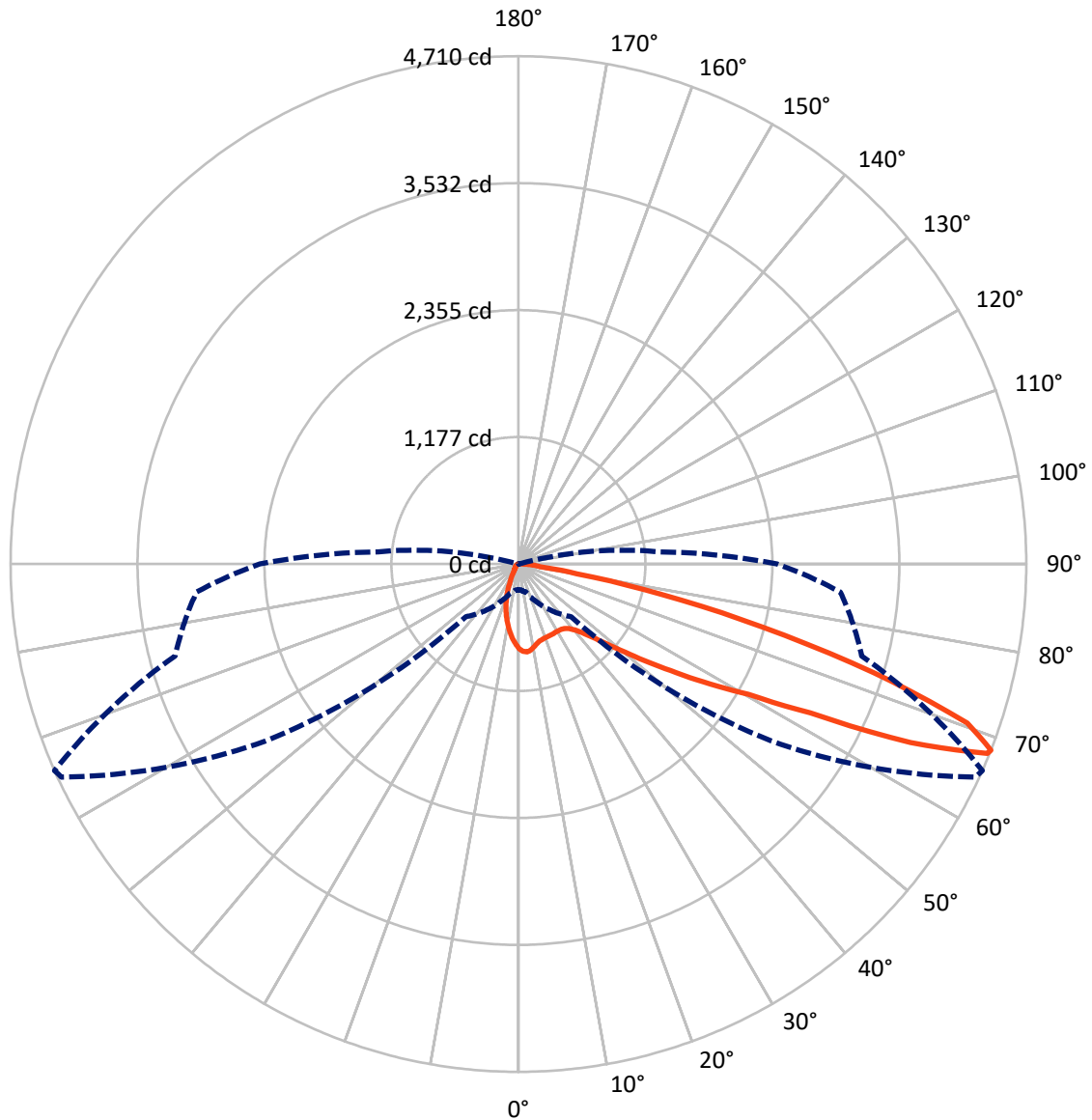


Based on 10 foot mounting height. Maximum calculated value = 7.9 fc  
 Type II - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



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



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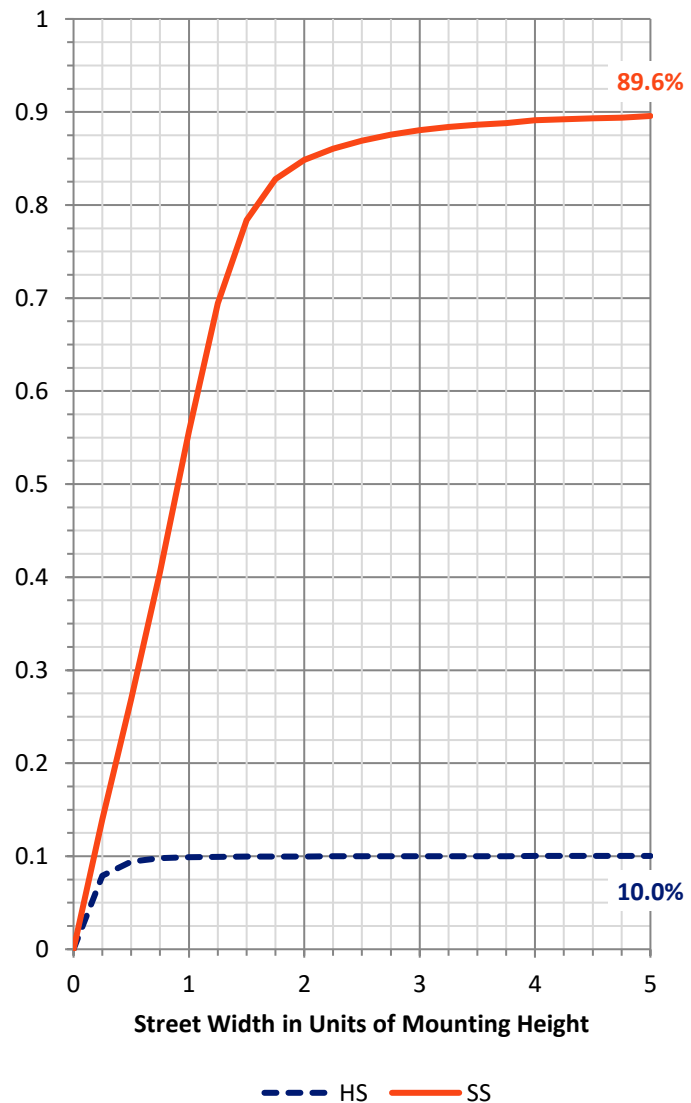
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	357.4	0.0	357.4
	% Fixture	10.1	0.0	10.1
<b>Street Side</b>	Lumens	3170.7	0.0	3170.7
	% Fixture	89.9	0.0	89.9
<b>Total</b>	Lumens	3528.0	0.0	3528.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.4	1.8
10°-20°	138.6	3.9
20°-30°	200.9	5.7
30°-40°	307.5	8.7
40°-50°	526.0	14.9
50°-60°	822.9	23.3
60°-70°	947.5	26.9
70°-80°	474.2	13.4
80°-90°	45.9	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°	3528.0	100.0
0°-180°	3528.0	100.0

**Coefficient of Utilization**



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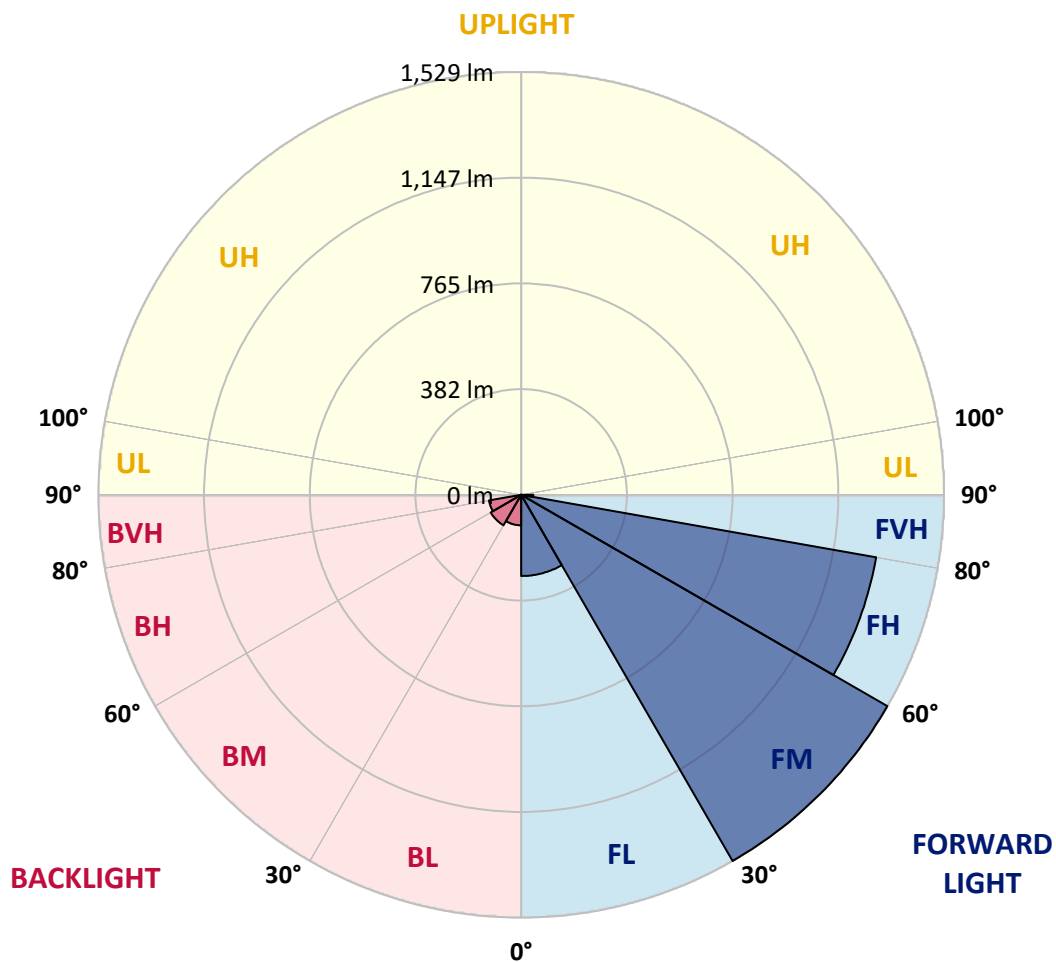
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	293.7	8.3			
FM	(30°-60°)	1529.2	43.3			
FH	(60°-80°)	1303.6	36.9			G1/1800
FVH	(80°-90°)	44.2	1.3			G1/100
BL	(0°-30°)	110.3	3.1	B1/500		
BM	(30°-60°)	127.3	3.6	B0/220		
BH	(60°-80°)	118.1	3.3	B1/500		G1/500
BVH	(80°-90°)	1.7	0.0			G0/10
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°	66°	75°	85°
0°	786.0	786.0	786.0	786.0	786.0	786.0	786.0	786.0	786.0	786.0	786.0
2.5°	826.7	827.3	827.0	827.8	827.3	823.1	818.7	809.3	810.1	797.9	784.3
5°	768.6	773.3	778.0	782.7	794.0	804.0	815.9	818.7	818.7	808.2	788.2
7.5°	709.3	709.6	714.8	721.2	736.4	754.7	782.4	807.3	807.9	810.7	788.8
10°	664.7	666.1	669.7	676.6	691.8	709.8	740.9	779.9	783.0	803.5	783.2
12.5°	630.1	631.7	635.6	643.6	657.5	676.1	708.7	753.3	757.5	796.5	781.6
15°	603.5	605.7	608.8	616.8	631.7	651.4	687.1	735.6	740.6	793.8	786.8
17.5°	592.4	592.4	592.1	597.7	612.6	632.6	670.0	726.2	732.6	796.0	795.7
20°	597.1	596.3	590.5	589.1	598.2	618.2	656.4	720.1	727.3	800.1	806.5
22.5°	622.0	620.4	607.4	596.6	593.8	607.1	647.2	715.9	724.5	808.7	820.9
25°	674.9	670.0	652.0	627.6	605.7	604.3	640.9	713.7	722.9	818.7	836.7
27.5°	743.6	742.2	713.4	680.8	638.7	613.5	638.9	712.1	721.2	825.9	849.4
30°	828.9	829.5	796.3	753.6	689.9	639.2	645.0	711.2	720.6	826.4	855.0
32.5°	917.0	917.6	889.9	844.2	760.0	683.5	662.2	715.1	723.7	824.2	854.7
35°	1001.8	1002.6	986.0	949.1	853.6	745.0	694.6	728.4	734.5	825.6	854.1
37.5°	1108.9	1112.3	1091.8	1057.4	971.0	835.3	747.5	755.3	760.2	837.0	858.3
40°	1291.7	1287.3	1228.6	1170.4	1098.4	945.3	823.9	801.5	803.2	866.3	874.1
42.5°	1504.7	1499.2	1398.6	1298.4	1229.4	1077.9	921.7	872.4	872.1	915.6	908.4
45°	1688.1	1684.7	1578.9	1445.2	1374.5	1224.4	1042.2	974.6	971.3	1000.9	971.0
47.5°	1818.2	1815.5	1735.4	1601.4	1542.4	1385.6	1192.6	1113.9	1107.0	1112.5	1072.7
50°	1831.0	1827.9	1799.9	1713.8	1738.5	1622.1	1378.4	1296.4	1287.6	1279.0	1226.4
52.5°	1711.9	1711.6	1726.3	1720.7	1875.8	1926.5	1606.4	1522.2	1511.6	1489.8	1437.4
55°	1468.4	1467.0	1522.7	1603.6	1872.8	2240.6	1953.9	1790.8	1777.0	1733.2	1664.5
57.5°	1072.9	1065.7	1182.1	1353.5	1741.2	2378.0	2505.9	2124.5	2101.6	1962.8	1857.0
60°	592.4	595.2	744.7	947.7	1429.7	2350.8	3013.9	2513.7	2453.3	2160.8	2054.2
62.5°	332.1	339.0	450.3	616.0	911.5	2130.6	3286.4	3183.3	3037.9	2391.8	2303.5
65°	251.2	255.4	311.3	475.3	574.7	1488.9	3329.9	4119.7	3994.3	2741.9	2700.3
67.5°	236.5	239.8	267.3	394.1	523.4	772.2	3002.5	4673.7	4689.4	3219.4	3007.8
68°	238.2	242.3	269.8	379.2	522.6	690.7	2862.9	4676.4	4709.9	3296.3	2997.2
70°	218.8	219.9	285.3	372.0	506.6	544.2	2071.1	4356.0	4416.1	3388.0	2720.8
72.5°	83.6	83.9	128.0	322.1	530.7	547.3	1043.3	3442.9	3445.9	2948.5	2121.2
75°	43.5	36.6	40.2	100.8	506.8	533.4	523.4	2350.8	2336.1	1994.1	1299.8
77.5°	29.9	25.5	26.9	34.9	210.8	533.1	378.0	1351.8	1348.8	848.3	370.8
80°	16.9	14.7	16.1	29.4	73.9	500.5	352.3	581.1	547.5	149.0	60.1
82.5°	8.6	7.2	8.6	24.6	46.0	314.9	342.6	227.9	203.0	35.5	39.1
85°	2.2	2.2	4.2	17.2	28.5	103.3	307.1	164.5	147.9	15.5	27.7
87.5°	0.6	0.3	1.7	6.4	10.2	22.4	170.3	91.7	78.9	8.0	16.1
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°	786.0	786.0	786.0	786.0	786.0	786.0	786.0	786.0	786.0	786.0	786.0
2.5°	778.8	771.0	755.8	738.6	726.5	713.2	705.4	696.0	688.8	682.4	687.1
5°	776.0	761.1	727.3	689.3	657.5	627.0	604.3	582.7	566.4	556.1	560.3
7.5°	768.8	746.7	691.8	632.6	580.5	531.5	491.6	455.9	428.2	413.2	417.9
10°	756.6	725.4	651.7	569.4	496.6	427.3	368.1	314.9	274.7	255.9	260.3
12.5°	747.8	706.5	610.1	508.5	412.7	314.3	235.7	174.8	143.5	124.6	126.3
15°	743.9	691.8	571.4	444.2	321.0	201.9	127.4	92.2	81.4	77.5	77.8
17.5°	744.5	680.2	534.5	377.5	228.5	116.0	78.1	70.3	68.7	67.9	67.9
20°	745.8	668.6	496.3	308.0	146.2	74.8	65.1	62.6	61.8	60.7	60.9
22.5°	750.0	659.7	457.8	238.2	90.0	60.9	57.6	55.4	54.0	52.3	52.6
25°	756.4	653.1	419.9	171.4	63.4	53.2	50.1	47.1	44.6	42.7	42.9
27.5°	760.2	643.6	379.4	116.9	52.6	46.5	42.4	38.2	35.5	33.8	33.5
30°	757.5	628.4	333.5	76.7	46.5	40.2	35.2	30.5	27.7	26.3	26.3
32.5°	750.0	608.8	282.8	55.9	41.3	34.6	28.5	24.4	22.4	21.6	21.9
35°	741.4	588.3	228.8	47.4	37.1	29.4	23.3	19.9	19.1	18.8	18.8
37.5°	736.7	570.5	177.0	42.9	33.2	24.4	19.1	17.2	16.3	16.3	16.3
40°	742.0	557.0	131.0	39.6	29.4	20.2	16.1	14.7	14.4	14.4	14.4
42.5°	764.4	552.3	95.8	36.8	25.5	16.9	13.8	12.7	12.5	12.7	12.7
45°	808.2	562.5	72.6	34.1	21.9	13.8	11.9	11.1	11.1	11.4	11.4
47.5°	882.4	588.8	59.5	31.3	18.3	11.6	10.2	9.7	9.7	10.0	10.0
50°	997.6	637.6	53.5	28.2	15.2	10.0	8.6	8.3	8.3	8.6	8.9
52.5°	1172.6	730.3	50.4	25.2	12.5	8.3	7.2	6.9	7.2	7.5	7.5
55°	1367.3	849.2	46.8	22.2	10.5	6.9	5.8	5.8	6.1	6.6	6.6
57.5°	1548.7	963.8	43.5	18.3	9.1	5.5	4.7	4.7	5.3	5.8	5.8
60°	1740.4	1076.3	39.1	14.7	7.8	4.4	3.9	3.9	4.7	5.3	5.5
62.5°	1977.2	1207.0	33.2	11.6	6.1	3.3	2.8	3.6	4.4	5.3	5.3
65°	2319.5	1369.6	26.0	9.1	4.7	2.5	2.2	3.3	4.2	5.0	5.3
67.5°	2443.9	1348.8	19.7	7.5	3.6	1.9	1.9	3.0	4.2	5.0	5.0
68°	2398.5	1303.4	18.8	7.2	3.3	1.9	1.9	3.0	4.2	5.0	5.0
70°	2089.9	1065.5	15.5	5.5	2.8	1.7	1.7	2.8	4.2	4.7	5.0
72.5°	1564.8	707.9	13.3	3.6	2.5	1.7	1.4	2.8	3.9	4.7	4.7
75°	897.6	293.9	11.4	2.8	2.2	1.4	1.4	2.5	3.9	4.7	4.7
77.5°	253.7	68.7	9.1	2.2	1.9	1.4	1.1	2.5	3.6	4.4	4.4
80°	46.5	20.5	7.2	1.9	1.7	1.4	1.1	2.5	3.6	4.4	4.4
82.5°	30.7	9.7	5.3	1.9	1.7	1.4	1.1	2.2	3.3	4.2	4.2
85°	23.0	6.9	3.3	1.9	1.7	1.4	1.1	2.2	3.3	4.2	4.2
87.5°	12.7	3.0	2.5	2.2	1.9	1.4	1.1	1.9	3.0	3.9	3.9
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)