

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: P198692

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198692  
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-SL2-800-HSS  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

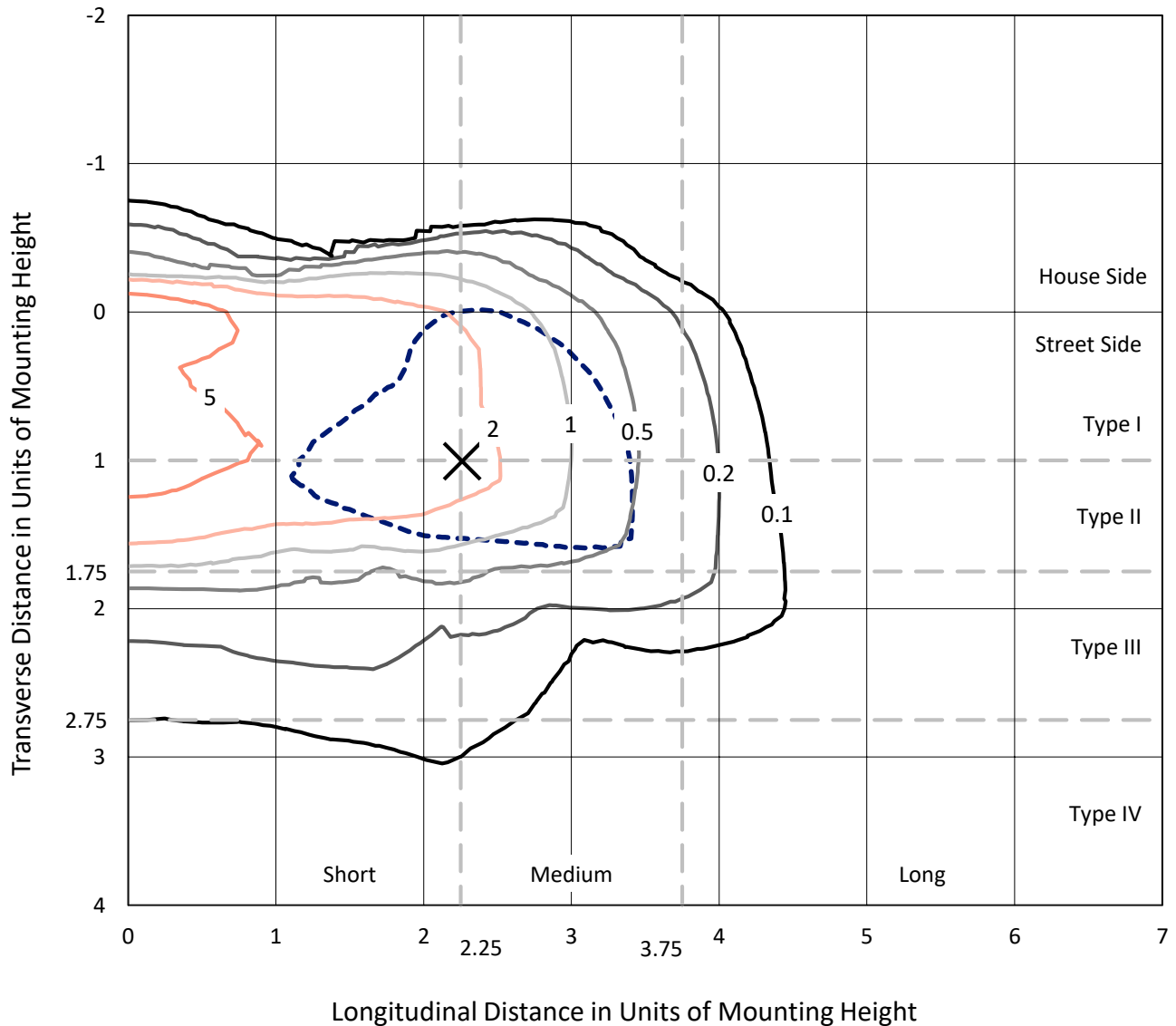
Lumens per Lamp: N/A  
Luminaire Lumens: 4077.5 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Semi-Cutoff  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (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



REPORT NUMBER: P198692  
 CATALOG NUMBER: XNV-AF-01-LED-U-SL2-800-HSS

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

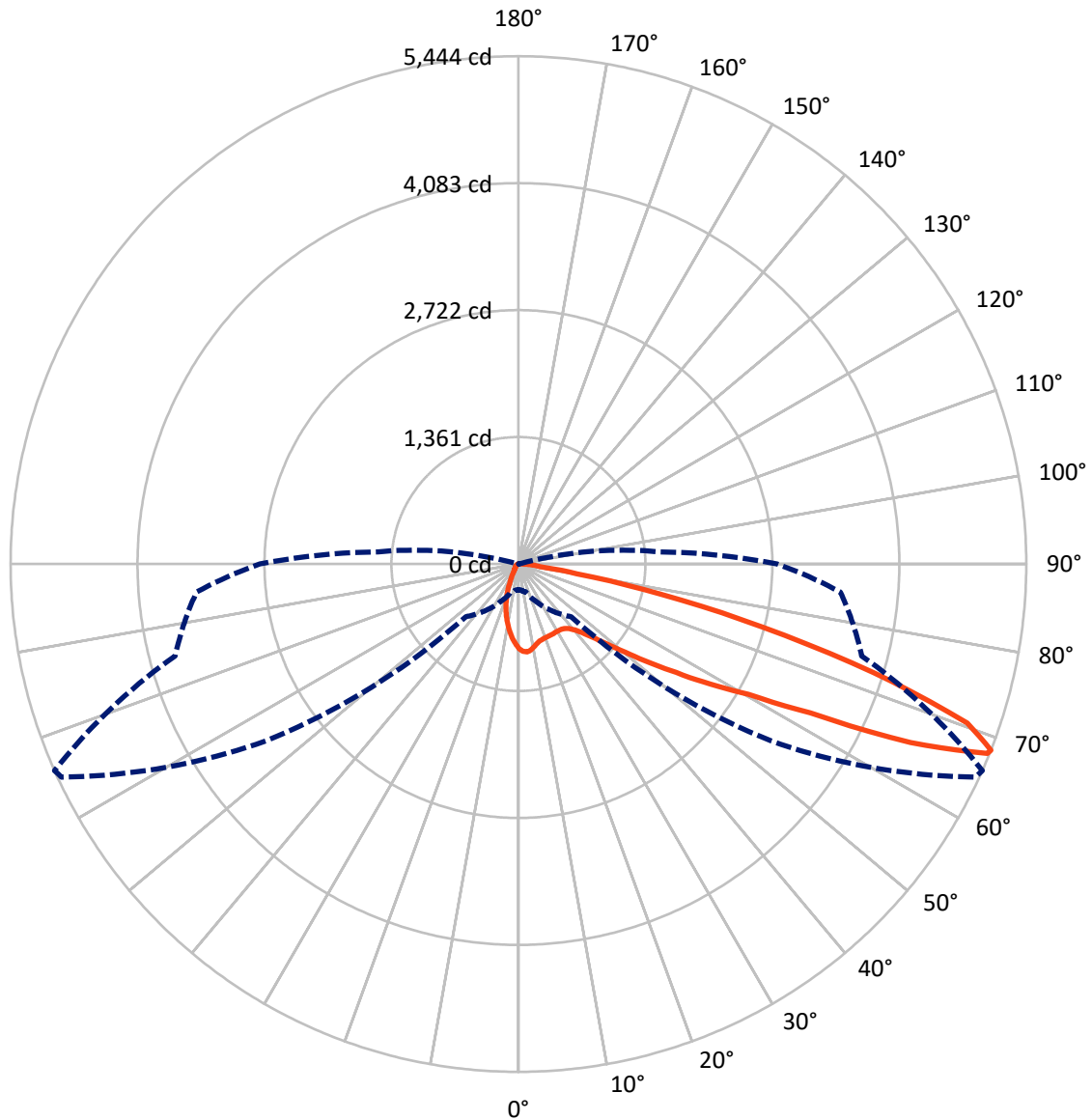


Based on 10 foot mounting height. Maximum calculated value = 9.1 fc  
 Type II - Medium - Semi-Cutoff

REPORT NUMBER: P198692

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-800-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P198692

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-800-HSS

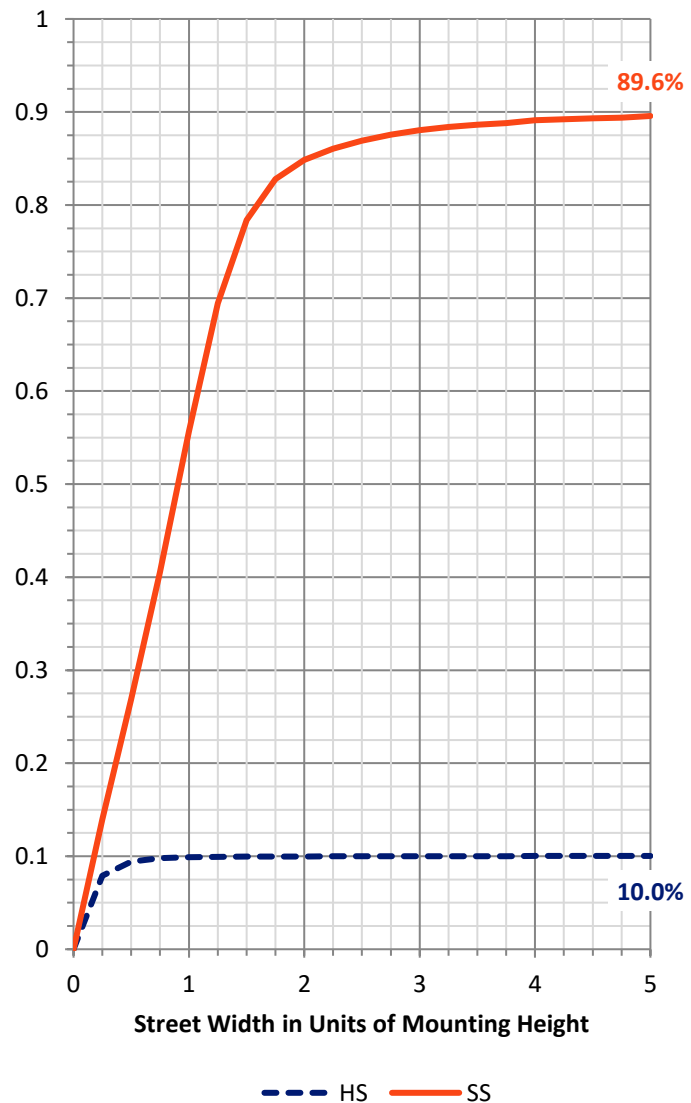
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	413.0	0.0	413.0
	% Fixture	10.1	0.0	10.1
<b>Street Side</b>	Lumens	3664.5	0.0	3664.5
	% Fixture	89.9	0.0	89.9
<b>Total</b>	Lumens	4077.5	0.0	4077.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.5	1.8
10°-20°	160.2	3.9
20°-30°	232.2	5.7
30°-40°	355.4	8.7
40°-50°	608.0	14.9
50°-60°	951.0	23.3
60°-70°	1095.1	26.9
70°-80°	548.0	13.4
80°-90°	53.1	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°	4077.5	100.0
0°-180°	4077.5	100.0



REPORT NUMBER: P198692

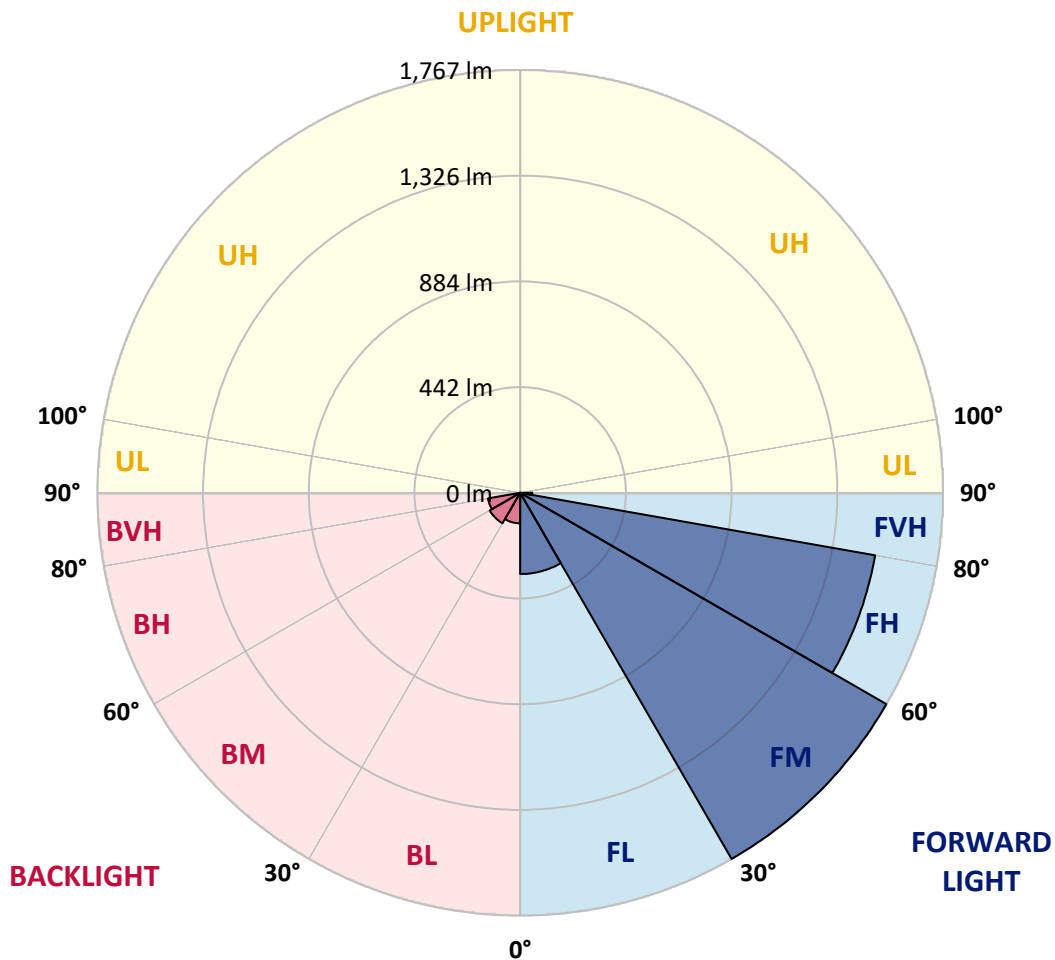
CATALOG NUMBER: XNV-AF-01-LED-U-SL2-800-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	339.4	8.3			
FM (30°-60°)	1767.4	43.3			
FH (60°-80°)	1506.6	36.9			G1/1800
FVH (80°-90°)	51.1	1.3			G1/100
BL (0°-30°)	127.5	3.1	B1/500		
BM (30°-60°)	147.1	3.6	B0/220		
BH (60°-80°)	136.5	3.3	B1/500		G1/500
BVH (80°-90°)	2.0	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





REPORT NUMBER: P198692

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-800-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4
2.5°	955.4	956.2	955.8	956.8	956.2	951.3	946.2	935.3	936.3	922.2	906.5
5°	888.2	893.6	899.2	904.6	917.7	929.2	943.0	946.2	946.2	934.1	910.9
7.5°	819.8	820.1	826.1	833.5	851.1	872.3	904.3	933.0	933.7	936.9	911.7
10°	768.2	769.9	774.0	781.9	799.6	820.4	856.2	901.4	904.9	928.6	905.2
12.5°	728.2	730.2	734.6	743.9	760.0	781.3	819.1	870.6	875.4	920.6	903.3
15°	697.4	700.0	703.6	712.9	730.2	752.9	794.1	850.2	855.9	917.4	909.4
17.5°	684.7	684.7	684.4	690.8	708.1	731.1	774.3	839.3	846.7	919.9	919.6
20°	690.1	689.2	682.4	680.9	691.4	714.4	758.6	832.3	840.6	924.7	932.1
22.5°	718.9	717.0	701.9	689.5	686.3	701.6	748.1	827.5	837.4	934.7	948.8
25°	780.1	774.3	753.5	725.4	700.0	698.5	740.7	824.9	835.4	946.2	967.0
27.5°	859.5	857.8	824.6	786.8	738.2	709.0	738.5	823.0	833.5	954.5	981.7
30°	958.0	958.7	920.2	870.9	797.4	738.8	745.5	822.0	832.9	955.1	988.2
32.5°	1059.9	1060.5	1028.5	975.7	878.3	790.0	765.4	826.4	836.4	952.6	987.8
35°	1157.8	1158.7	1139.6	1096.9	986.5	861.0	802.8	841.9	848.8	954.2	987.1
37.5°	1281.7	1285.5	1261.8	1222.1	1122.3	965.4	863.9	872.9	878.6	967.3	992.0
40°	1492.9	1487.8	1420.0	1352.8	1269.5	1092.5	952.3	926.4	928.2	1001.3	1010.2
42.5°	1739.0	1732.7	1616.5	1500.6	1420.9	1245.9	1065.3	1008.3	1008.0	1058.2	1050.0
45°	1951.0	1947.1	1824.8	1670.3	1588.6	1415.2	1204.5	1126.4	1122.6	1156.9	1122.3
47.5°	2101.4	2098.2	2005.7	1850.8	1782.6	1601.4	1378.3	1287.4	1279.4	1285.8	1239.7
50°	2116.2	2112.6	2080.3	1980.7	2009.2	1874.8	1593.1	1498.3	1488.1	1478.2	1417.4
52.5°	1978.5	1978.2	1995.2	1988.7	2168.0	2226.6	1856.6	1759.3	1747.1	1721.8	1661.3
55°	1697.2	1695.5	1759.9	1853.4	2164.5	2589.6	2258.3	2069.7	2053.7	2003.1	1923.8
57.5°	1240.0	1231.7	1366.2	1564.3	2012.5	2748.4	2896.2	2455.4	2428.9	2268.5	2146.3
60°	684.7	687.8	860.7	1095.4	1652.3	2717.0	3483.2	2905.2	2835.4	2497.3	2374.2
62.5°	383.8	391.8	520.5	711.9	1053.4	2462.4	3798.2	3679.1	3511.1	2764.3	2662.2
65°	290.3	295.1	359.8	549.3	664.2	1720.8	3848.4	4761.4	4616.4	3168.9	3120.9
67.5°	273.3	277.2	308.9	455.5	605.0	892.4	3470.2	5401.6	5419.8	3720.8	3476.2
68°	275.3	280.1	311.8	438.2	604.1	798.3	3308.8	5404.8	5443.5	3809.8	3464.0
70°	252.9	254.2	329.7	429.8	585.4	629.0	2393.7	5034.5	5103.9	3915.7	3144.6
72.5°	96.7	97.0	147.9	372.3	613.3	632.5	1205.8	3979.1	3982.6	3407.8	2451.6
75°	50.2	42.2	46.4	116.5	585.7	616.5	605.0	2717.0	2700.0	2304.7	1502.2
77.5°	34.6	29.5	31.1	40.3	243.6	616.2	436.9	1562.4	1558.9	980.4	428.6
80°	19.5	17.0	18.5	34.0	85.4	578.4	407.1	671.6	632.8	172.2	69.5
82.5°	9.9	8.3	9.9	28.4	53.1	364.0	396.0	263.4	234.7	41.0	45.1
85°	2.6	2.6	4.8	19.8	32.9	119.4	355.0	190.2	170.9	17.9	32.0
87.5°	0.6	0.3	1.9	7.4	11.9	25.9	196.8	106.0	91.2	9.3	18.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P198692

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-800-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4
2.5°	900.1	891.1	873.5	853.7	839.6	824.2	815.3	804.3	796.1	788.7	794.1
5°	896.9	879.6	840.6	796.7	760.0	724.7	698.5	673.5	654.6	642.7	647.5
7.5°	888.5	863.0	799.6	731.1	671.0	614.3	568.1	526.9	494.9	477.6	483.0
10°	874.5	838.3	753.2	658.1	574.0	493.9	425.4	364.0	317.5	295.7	300.8
12.5°	864.3	816.5	705.1	587.7	476.9	363.4	272.4	201.9	165.8	144.0	146.0
15°	859.8	799.6	660.3	513.4	371.0	233.3	147.2	106.6	94.1	89.6	89.9
17.5°	860.4	786.1	617.8	436.3	264.1	134.1	90.2	81.3	79.4	78.5	78.5
20°	862.0	772.7	573.6	356.0	169.0	86.4	75.2	72.3	71.4	70.1	70.4
22.5°	866.8	762.5	529.1	275.3	104.0	70.4	66.6	64.0	62.4	60.5	60.9
25°	874.2	754.7	485.3	198.1	73.3	61.5	57.9	54.4	51.6	49.3	49.6
27.5°	878.6	743.9	438.5	135.0	60.9	53.8	49.0	44.2	41.0	39.1	38.8
30°	875.4	726.3	385.3	88.7	53.8	46.4	40.6	35.2	32.0	30.4	30.4
32.5°	866.8	703.6	326.8	64.7	47.7	40.0	32.9	28.1	25.9	25.0	25.3
35°	856.9	679.9	264.4	54.7	42.9	34.0	26.9	23.0	22.1	21.8	21.8
37.5°	851.4	659.4	204.6	49.6	38.4	28.1	22.1	19.8	18.9	18.9	18.9
40°	857.5	643.7	151.4	45.7	34.0	23.3	18.5	17.0	16.7	16.7	16.7
42.5°	883.4	638.2	110.8	42.6	29.5	19.5	16.0	14.7	14.4	14.7	14.7
45°	934.1	650.1	83.9	39.4	25.3	16.0	13.8	12.8	12.8	13.1	13.1
47.5°	1019.8	680.6	68.8	36.2	21.2	13.4	11.9	11.3	11.3	11.6	11.6
50°	1153.0	736.8	61.8	32.6	17.6	11.6	9.9	9.6	9.6	9.9	10.2
52.5°	1355.3	844.0	58.2	29.2	14.4	9.6	8.3	8.0	8.3	8.6	8.6
55°	1580.3	981.4	54.1	25.6	12.2	8.0	6.8	6.8	7.1	7.7	7.7
57.5°	1790.0	1113.9	50.2	21.2	10.5	6.4	5.4	5.4	6.0	6.8	6.8
60°	2011.4	1243.9	45.1	17.0	9.0	5.1	4.5	4.5	5.4	6.0	6.4
62.5°	2285.2	1395.0	38.4	13.4	7.1	3.9	3.2	4.2	5.1	6.0	6.0
65°	2680.7	1582.8	30.1	10.5	5.4	2.9	2.6	3.9	4.8	5.7	6.0
67.5°	2824.5	1558.9	22.7	8.6	4.2	2.3	2.3	3.5	4.8	5.7	5.7
68°	2772.0	1506.4	21.8	8.3	3.9	2.3	2.3	3.5	4.8	5.7	5.7
70°	2415.4	1231.4	17.9	6.4	3.2	1.9	1.9	3.2	4.8	5.4	5.7
72.5°	1808.6	818.2	15.3	4.2	2.9	1.9	1.6	3.2	4.5	5.4	5.4
75°	1037.4	339.6	13.1	3.2	2.6	1.6	1.6	2.9	4.5	5.4	5.4
77.5°	293.2	79.4	10.5	2.6	2.3	1.6	1.3	2.9	4.2	5.1	5.1
80°	53.8	23.7	8.3	2.3	1.9	1.6	1.3	2.9	4.2	5.1	5.1
82.5°	35.5	11.3	6.0	2.3	1.9	1.6	1.3	2.6	3.9	4.8	4.8
85°	26.6	8.0	3.9	2.3	1.9	1.6	1.3	2.6	3.9	4.8	4.8
87.5°	14.7	3.5	2.9	2.6	2.3	1.6	1.3	2.3	3.5	4.5	4.5
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)