

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: P271223

Luminaire Tested: **XNV-AF-01-LED-U-RW-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271223  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24161)  
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-RW-7027-800  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4339.1 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Medium - Full Cutoff  
BUG Rating: B2 - U0 - G1

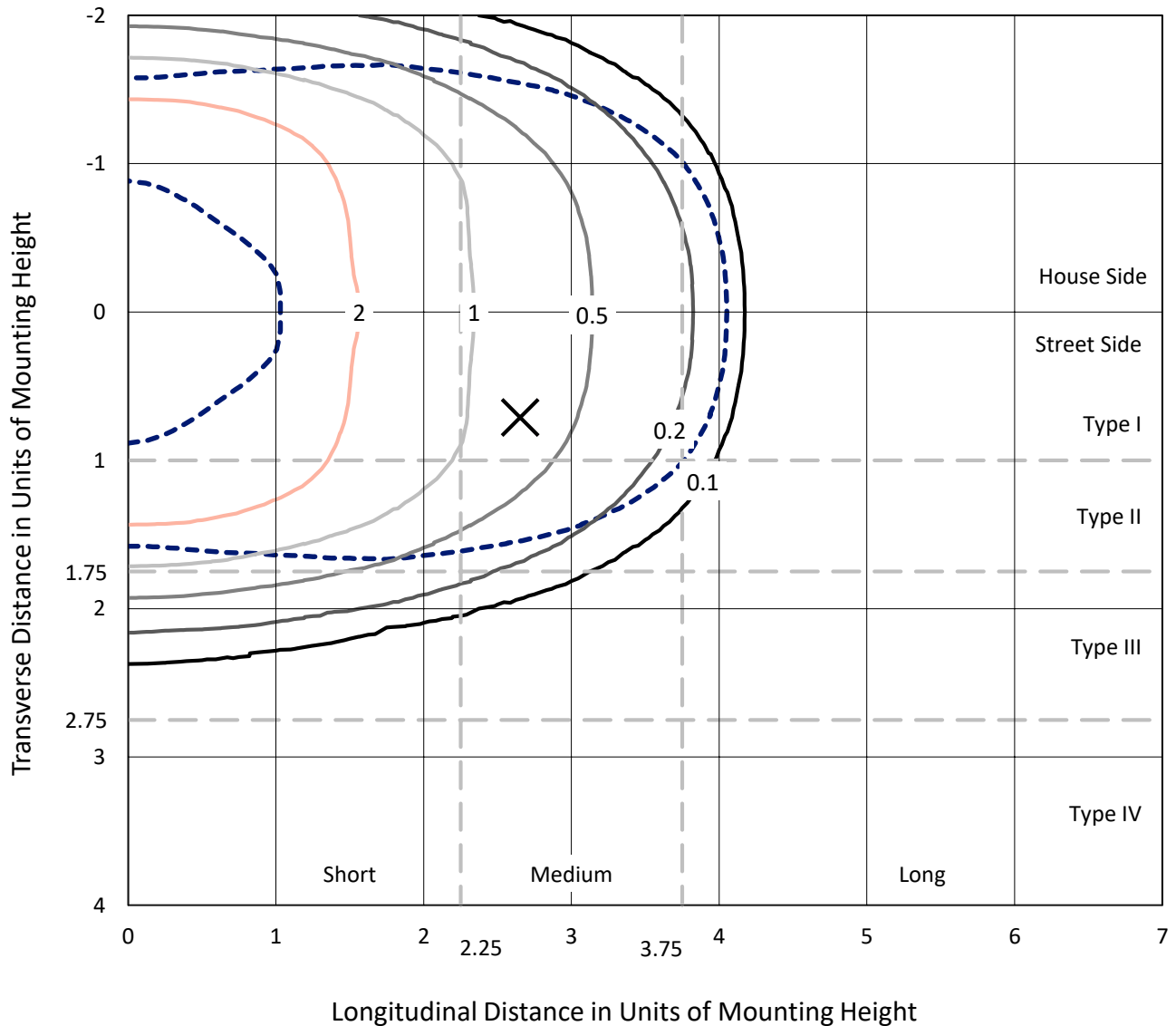
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

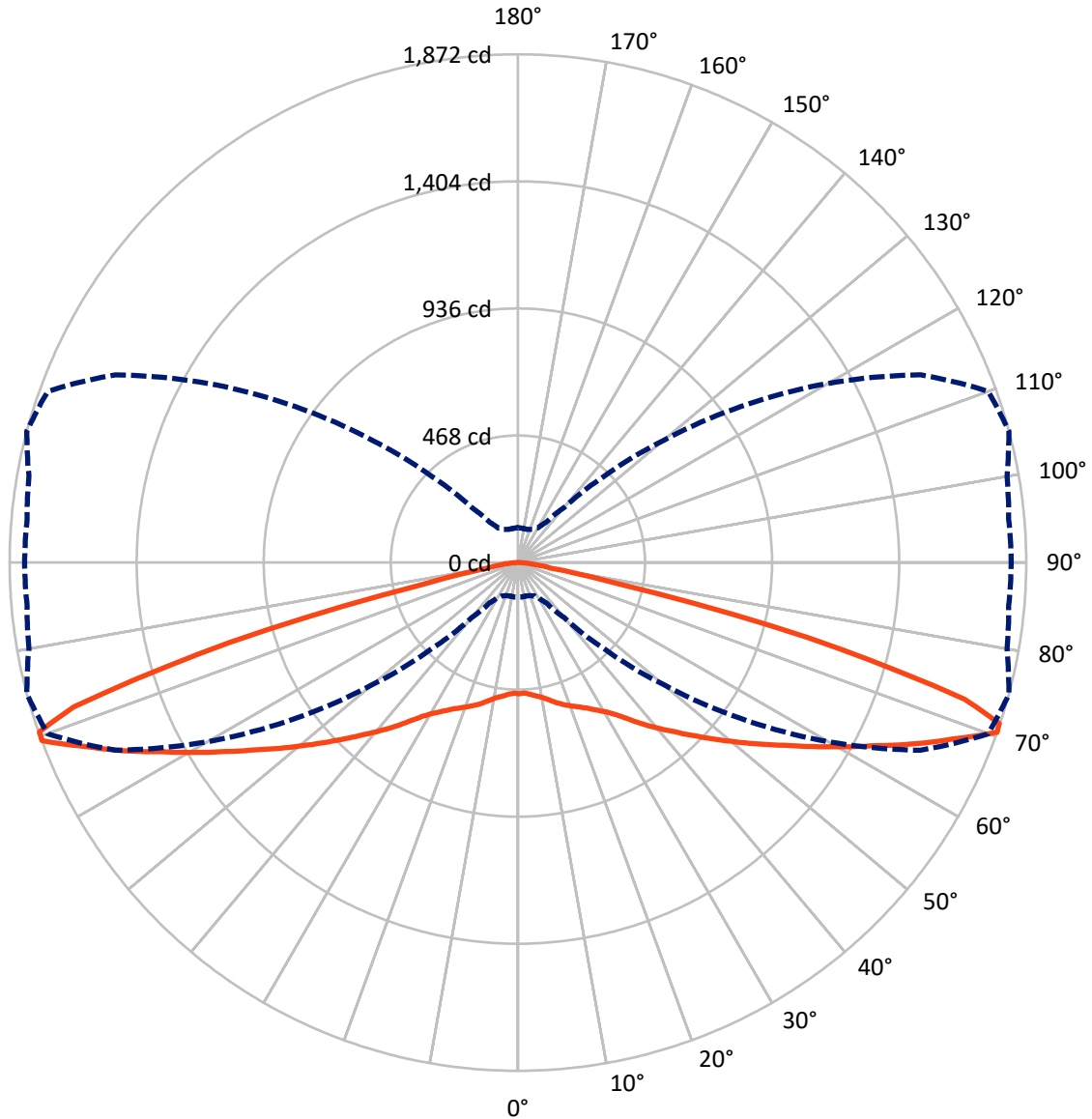
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.9 fc  
 Type V - Medium - Full Cutoff

REPORT NUMBER: P271223  
CATALOG NUMBER: XNV-AF-01-LED-U-RW-7027-800

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P271223

CATALOG NUMBER: XNV-AF-01-LED-U-RW-7027-800

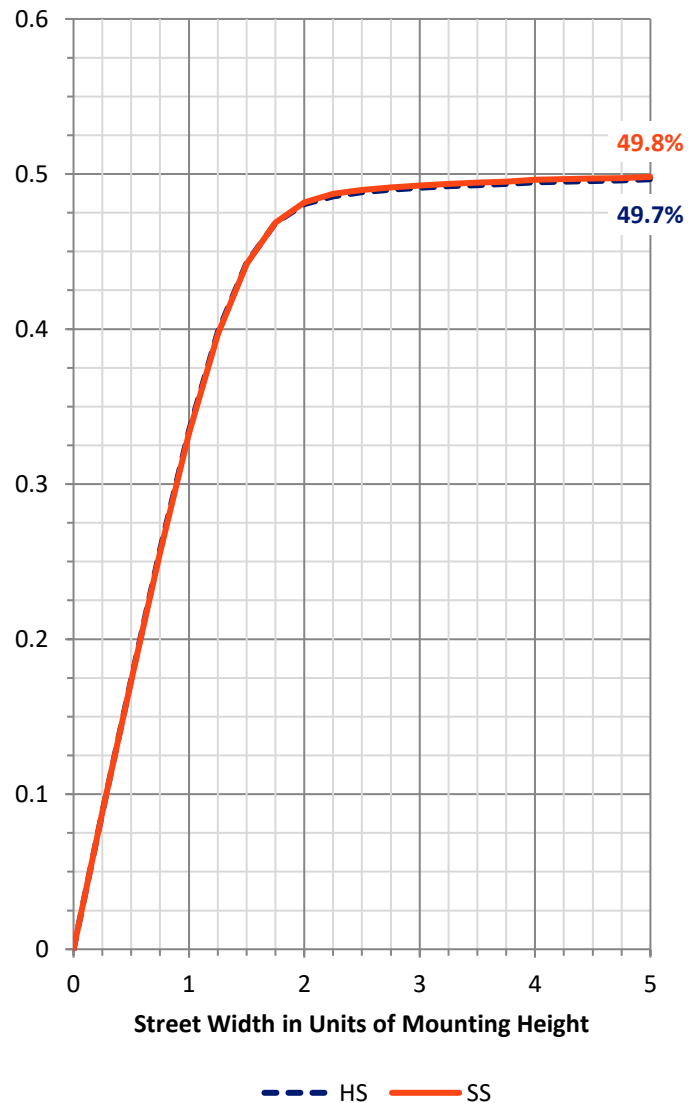
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2169.6	0.0	2169.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2169.6	0.0	2169.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4339.1	0.0	4339.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.3	1.1
10°-20°	143.7	3.3
20°-30°	270.0	6.2
30°-40°	475.6	11.0
40°-50°	788.2	18.2
50°-60°	1096.4	25.3
60°-70°	1035.1	23.9
70°-80°	442.1	10.2
80°-90°	41.8	1.0
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°	4339.1	100.0
0°-180°	4339.1	100.0



REPORT NUMBER: P271223

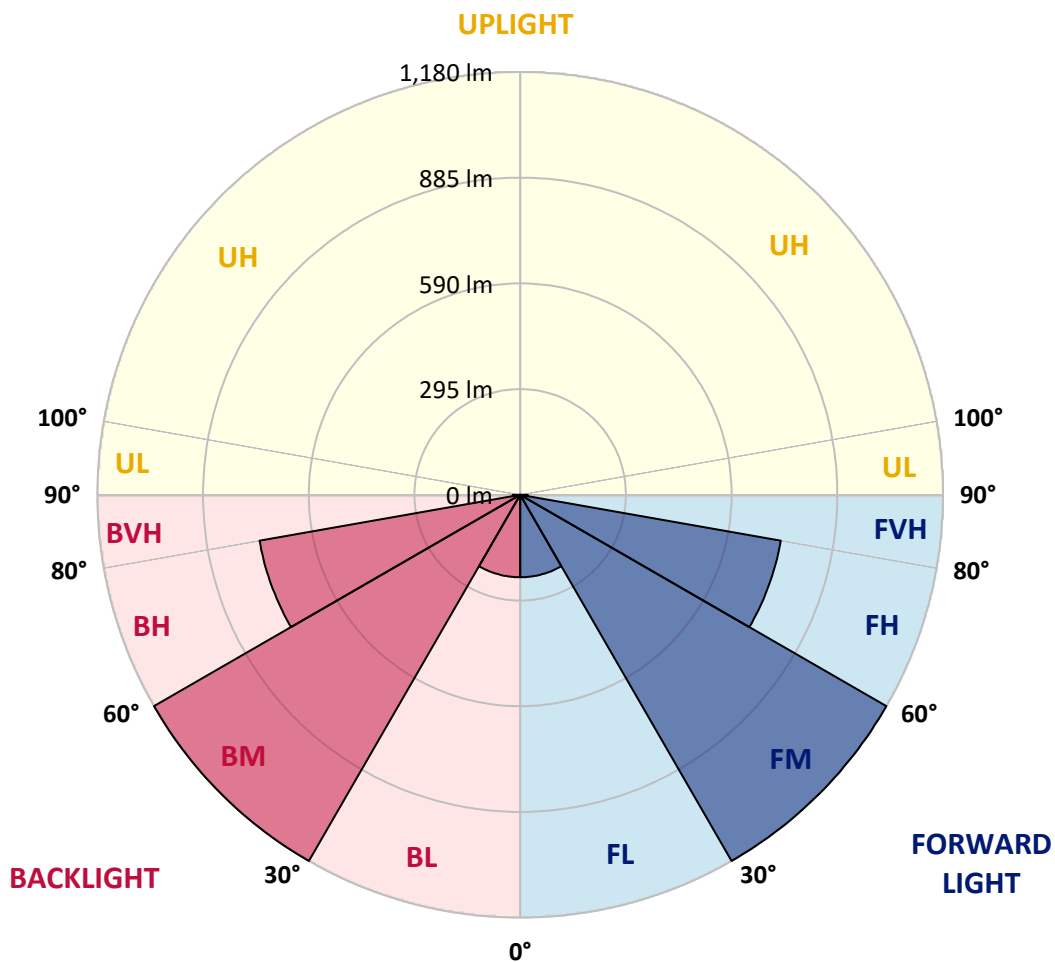
CATALOG NUMBER: XNV-AF-01-LED-U-RW-7027-800

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	230.0	5.3			
FM	(30°-60°)	1180.1	27.2			
FH	(60°-80°)	738.6	17.0			G1/1800
FVH	(80°-90°)	20.9	0.5			G1/100
BL	(0°-30°)	230.0	5.3	B1/500		
BM	(30°-60°)	1180.1	27.2	B2/2500		
BH	(60°-80°)	738.6	17.0	B2/1000		G1/1800
BVH	(80°-90°)	20.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Medium





REPORT NUMBER: P271223

CATALOG NUMBER: XNV-AF-01-LED-U-RW-7027-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2
2.5°	486.3	486.0	486.3	485.4	485.7	485.4	485.4	484.2	484.2	483.7	482.8
5°	480.8	481.3	481.3	481.3	482.1	482.1	483.2	483.5	484.2	485.2	485.7
7.5°	471.8	472.1	472.9	473.3	475.1	477.2	479.3	481.9	484.0	486.7	489.8
10°	464.2	464.8	466.1	467.5	470.4	473.1	476.9	480.8	484.5	489.1	493.8
12.5°	460.1	460.9	463.0	465.2	469.9	473.3	478.5	484.5	489.8	494.1	499.3
15°	460.7	460.9	464.0	466.8	473.3	478.3	485.7	492.7	499.0	503.9	509.9
17.5°	468.6	469.0	472.1	476.5	482.7	488.9	496.9	504.2	512.6	518.3	525.4
20°	484.0	484.8	488.0	492.7	499.5	506.0	514.2	521.8	530.4	537.4	544.5
22.5°	504.2	505.4	509.0	514.8	521.6	529.5	537.8	545.7	554.0	560.7	566.7
25°	531.1	532.6	536.5	542.1	549.0	557.5	566.1	574.2	582.7	587.9	592.8
27.5°	567.2	570.0	574.0	578.7	584.6	593.6	601.8	608.5	616.7	622.4	625.7
30°	615.9	619.7	623.0	627.8	632.1	641.7	648.2	653.6	660.0	663.2	664.0
32.5°	675.4	678.9	682.3	685.8	691.8	700.5	706.7	709.8	713.0	712.4	709.4
35°	742.5	745.4	747.2	753.5	763.3	768.9	773.6	774.7	775.2	769.6	763.7
37.5°	813.3	816.6	818.1	828.0	837.2	843.8	845.9	848.4	846.7	837.2	826.9
40°	889.7	893.3	898.1	906.6	917.4	923.6	926.4	926.2	924.9	913.7	896.8
42.5°	964.8	969.1	973.3	987.9	996.8	1007.4	1008.8	1008.5	1005.6	992.7	973.3
45°	1028.4	1033.6	1042.0	1058.4	1072.8	1085.5	1090.7	1092.6	1089.6	1076.0	1053.7
47.5°	1080.9	1084.4	1095.0	1114.8	1133.4	1152.2	1162.4	1169.9	1169.6	1159.7	1136.0
50°	1116.9	1120.8	1133.9	1156.2	1179.4	1201.4	1221.8	1238.4	1246.2	1239.1	1217.2
52.5°	1127.2	1132.3	1149.4	1176.2	1203.0	1232.7	1263.0	1292.4	1310.1	1314.5	1297.3
55°	1083.6	1089.4	1114.3	1151.3	1195.6	1239.4	1285.7	1327.5	1363.9	1380.9	1374.0
57.5°	956.9	960.9	992.7	1040.6	1103.9	1180.9	1258.7	1335.4	1397.9	1441.7	1449.3
60°	756.7	761.9	796.7	847.3	919.3	1016.7	1125.4	1251.1	1373.8	1474.1	1523.9
62.5°	510.6	514.2	547.6	593.9	672.7	766.6	887.9	1047.0	1221.8	1400.9	1541.2
65°	268.1	268.1	290.7	323.0	385.8	469.9	594.1	757.4	965.3	1189.0	1423.8
67.5°	155.5	155.2	160.4	167.8	187.7	221.6	290.2	410.0	607.0	867.5	1134.5
70°	128.4	127.5	126.8	126.8	129.7	134.8	148.0	180.7	264.6	447.4	698.1
71°	122.7	122.1	120.0	119.0	120.5	123.2	128.8	144.1	187.8	305.2	521.2
72.5°	115.8	114.4	111.2	109.9	110.1	111.2	112.8	118.8	132.1	173.6	297.2
75°	105.6	102.2	98.2	96.3	95.4	95.2	95.2	96.7	99.8	104.7	121.8
77.5°	93.6	88.9	84.6	82.6	81.2	80.5	79.9	78.8	78.3	80.5	86.7
80°	79.1	74.2	70.6	69.6	68.8	67.2	64.9	62.8	61.4	62.5	66.4
82.5°	61.2	56.2	56.9	57.1	55.8	53.0	50.8	48.4	46.0	45.5	47.3
85°	48.7	46.3	44.6	48.1	45.2	42.0	38.8	34.9	29.0	24.0	26.1
87.5°	20.9	21.2	30.5	46.0	40.2	32.3	26.9	21.7	13.8	10.3	10.6
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: P271223

CATALOG NUMBER: XNV-AF-01-LED-U-RW-7027-800

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2
2.5°	482.7	482.7	481.9	481.3	481.3	481.3	480.8	481.0
5°	486.0	486.4	487.1	486.7	487.6	488.4	488.0	487.8
7.5°	491.4	493.0	494.6	495.4	496.6	497.7	497.9	497.1
10°	496.9	500.0	502.5	504.7	506.0	507.2	507.9	507.7
12.5°	503.6	508.3	512.6	517.0	519.8	521.6	523.2	522.6
15°	514.8	519.8	525.4	531.1	535.7	538.2	540.6	540.1
17.5°	530.0	534.6	539.0	544.6	550.4	553.0	555.8	555.5
20°	549.0	552.5	555.1	558.2	563.6	566.7	569.2	568.3
22.5°	570.8	571.9	572.1	573.2	577.6	581.2	584.3	585.2
25°	594.4	593.6	592.0	591.2	594.1	597.9	602.0	603.1
27.5°	623.9	621.1	617.0	613.7	614.5	619.4	624.1	625.1
30°	660.8	654.5	645.8	639.6	638.4	643.6	648.5	650.2
32.5°	703.0	694.5	682.5	673.0	668.9	673.5	678.0	680.3
35°	753.0	743.6	729.3	717.0	710.5	713.6	721.1	723.9
37.5°	812.2	799.4	783.4	768.0	757.0	757.6	765.7	768.9
40°	877.7	859.3	838.8	819.6	803.9	802.7	810.0	812.4
42.5°	946.0	922.4	898.5	873.2	853.6	850.1	859.6	859.8
45°	1019.4	988.9	959.3	929.9	909.5	903.3	912.6	913.7
47.5°	1097.8	1059.7	1024.5	992.7	970.8	960.9	969.9	971.5
50°	1179.4	1139.9	1099.0	1063.8	1037.9	1026.0	1036.6	1037.6
52.5°	1260.1	1222.9	1182.3	1141.7	1110.6	1096.9	1109.4	1113.3
55°	1341.3	1305.4	1267.4	1226.9	1187.5	1175.5	1189.0	1193.2
57.5°	1426.0	1391.5	1356.9	1316.0	1277.7	1259.6	1274.2	1279.9
60°	1519.3	1488.9	1456.2	1415.1	1377.3	1356.1	1368.6	1375.1
62.5°	1610.9	1604.6	1575.0	1532.2	1484.4	1463.2	1473.8	1478.4
65°	1618.4	1720.0	1718.5	1676.1	1609.3	1573.7	1576.5	1578.9
67.5°	1412.7	1645.3	1794.2	1807.5	1733.0	1677.2	1670.7	1672.0
70°	1000.2	1319.6	1635.4	1842.6	1871.9	1828.7	1814.5	1816.7
71°	801.4	1132.3	1479.8	1758.5	1869.7	1857.2	1849.3	1855.0
72.5°	511.5	834.3	1172.5	1505.9	1719.4	1780.5	1789.6	1793.0
75°	185.7	359.0	607.4	870.4	1103.2	1263.3	1351.4	1358.5
77.5°	99.8	128.5	198.7	296.9	373.1	413.8	418.8	420.6
80°	73.4	85.1	97.3	111.2	120.0	121.5	118.5	112.3
82.5°	51.9	58.7	63.6	68.5	72.0	69.1	57.4	43.7
85°	30.3	33.1	35.9	38.4	38.8	36.7	24.3	19.9
87.5°	11.9	13.0	12.8	14.5	13.8	12.8	9.5	8.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)