

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: P198502

Luminaire Tested: **XNV-AF-01-LED-U-5WQ-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198502  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24131)  
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-5WQ-7030  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5570 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G1

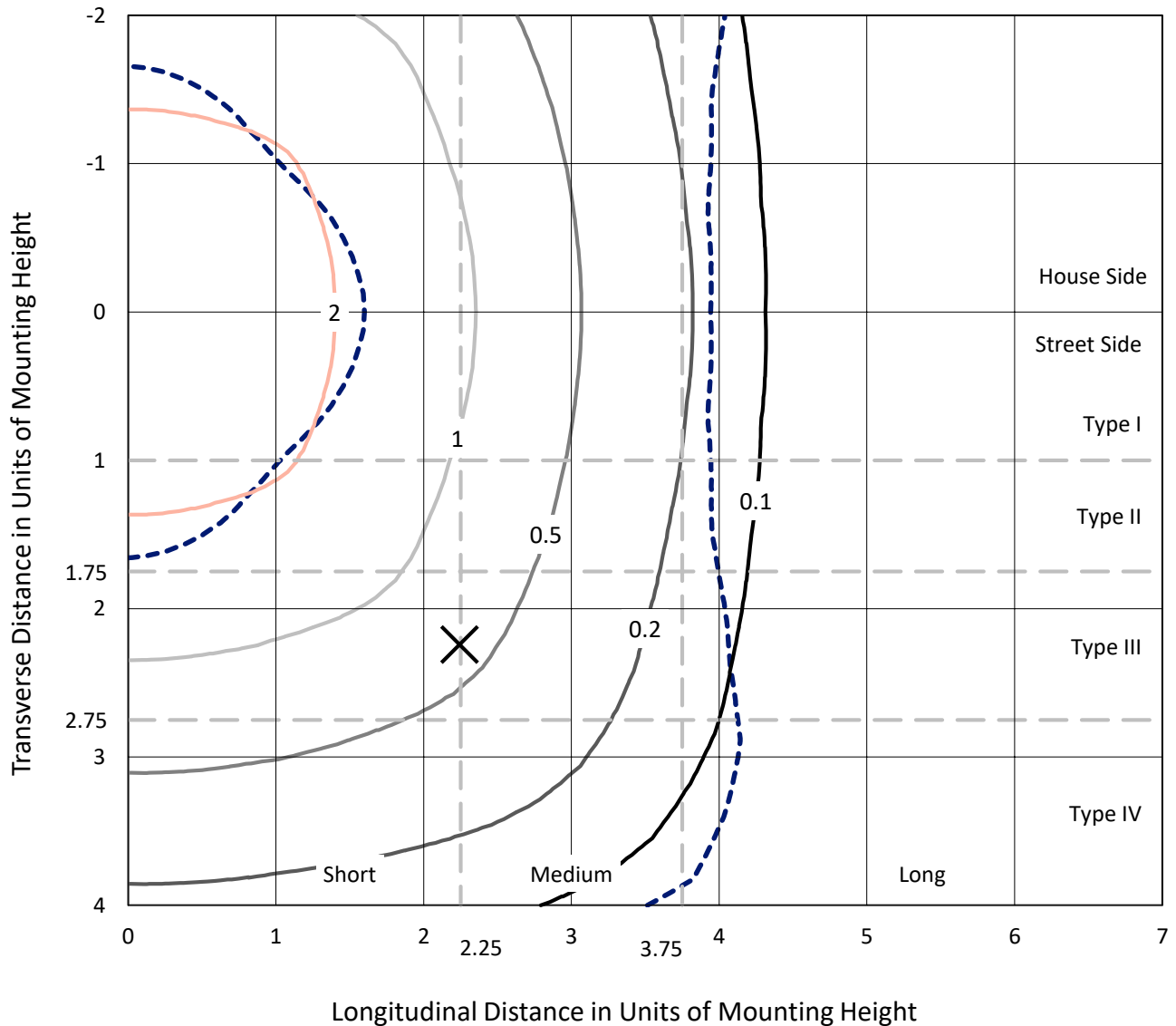
Input Watts (W): 58  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

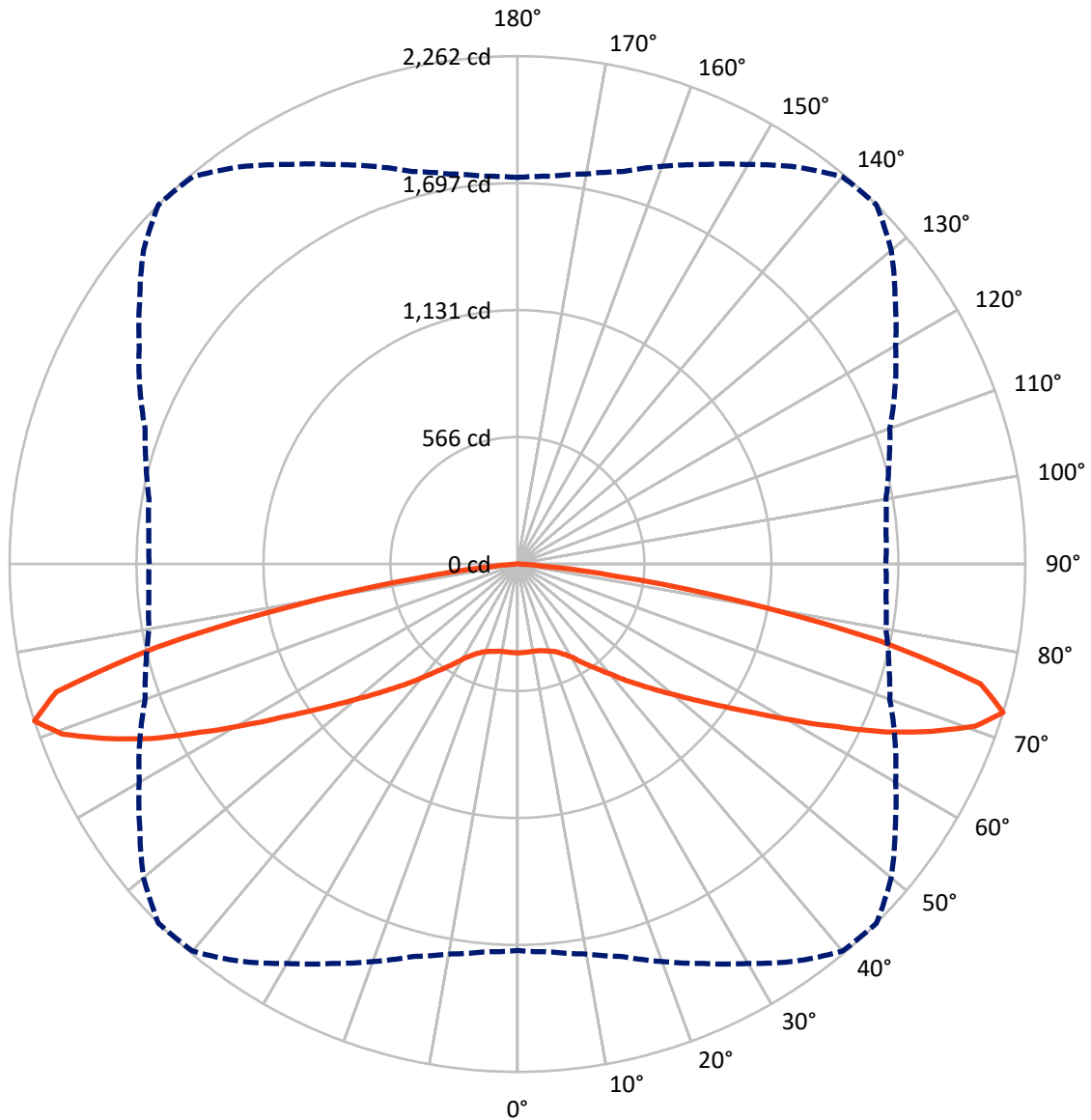
× Max cd  
- - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4 fc  
Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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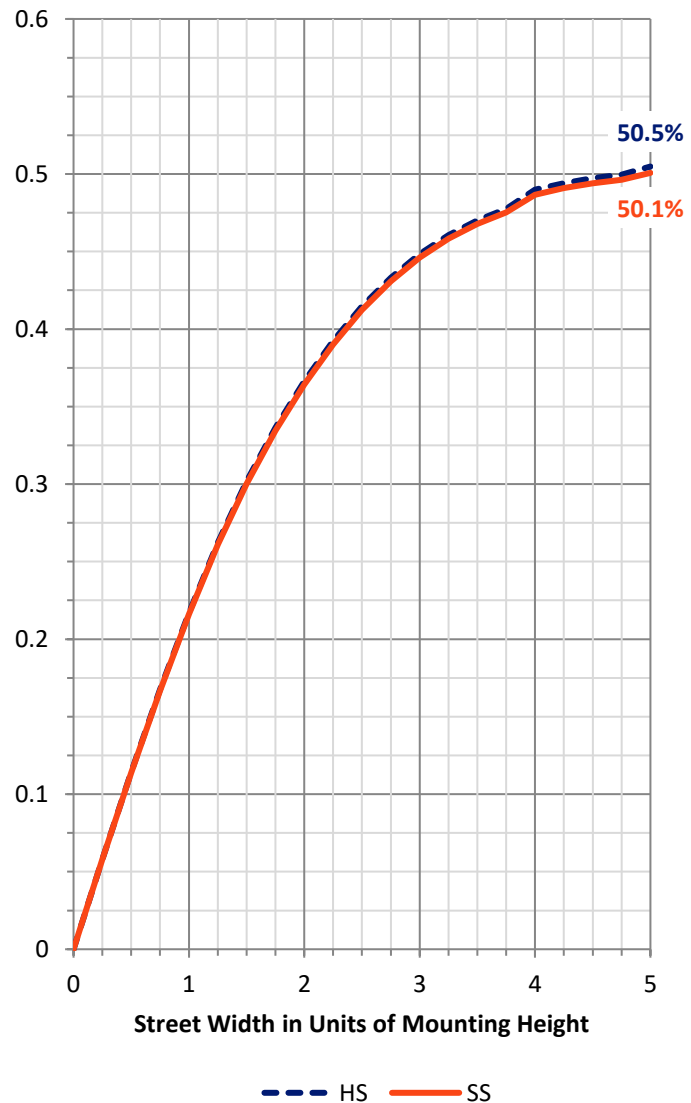
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2785.0	0.0	2785.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2785.0	0.0	2785.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5570.0	0.0	5570.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.8	0.7
10°-20°	114.4	2.1
20°-30°	206.5	3.7
30°-40°	352.2	6.3
40°-50°	599.7	10.8
50°-60°	965.1	17.3
60°-70°	1605.0	28.8
70°-80°	1552.6	27.9
80°-90°	136.7	2.5
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°	5570.0	100.0
0°-180°	5570.0	100.0



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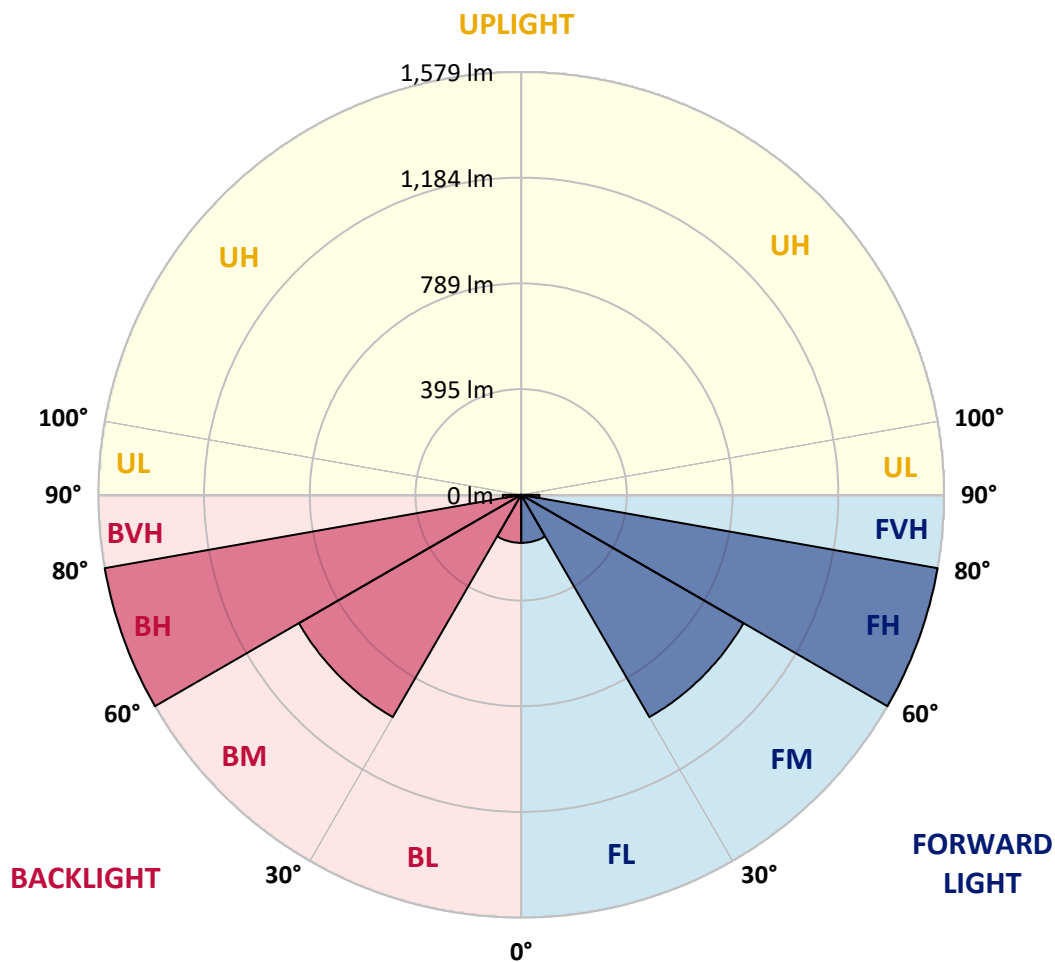
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	179.3	3.2			
FM	(30°-60°)	958.5	17.2			
FH	(60°-80°)	1578.8	28.3			G1/1800
FVH	(80°-90°)	68.3	1.2			G1/100
BL	(0°-30°)	179.3	3.2	B1/500		
BM	(30°-60°)	958.5	17.2	B1/1000		
BH	(60°-80°)	1578.8	28.3	B3/2500		G1/1800
BVH	(80°-90°)	68.3	1.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	396.0	396.0	396.0	396.0	396.0	396.0	396.0	396.0	396.0	396.0	396.0
2.5°	399.1	399.1	399.4	399.1	398.4	398.0	397.0	396.3	395.6	395.3	394.6
5°	399.4	399.4	399.8	399.4	398.7	398.0	397.4	396.3	395.6	395.0	394.6
7.5°	400.8	401.1	401.5	401.1	399.8	399.1	398.0	397.0	395.6	395.0	394.3
10°	403.5	403.5	403.5	403.2	402.2	400.8	399.4	398.4	396.7	395.0	393.9
12.5°	405.6	405.9	405.9	405.2	403.9	402.2	400.8	399.8	398.4	397.0	396.0
15°	408.7	408.7	408.3	407.0	404.9	403.5	402.8	402.5	402.2	401.5	400.4
17.5°	414.8	414.5	413.5	411.4	409.0	408.0	407.3	407.3	407.3	407.0	406.3
20°	423.8	423.8	422.4	419.0	416.9	415.9	414.8	414.8	414.8	413.8	412.8
22.5°	438.2	438.5	436.4	432.3	429.6	427.5	426.2	425.1	424.1	423.4	421.7
25°	457.7	457.4	455.0	449.8	447.8	445.7	443.0	441.2	439.9	438.8	436.8
27.5°	478.3	477.9	475.2	470.7	469.4	466.3	464.2	461.8	460.1	458.4	456.3
30°	504.7	503.0	500.9	497.5	496.8	494.4	491.6	488.2	485.5	482.7	480.3
32.5°	528.3	528.3	525.2	523.5	524.9	523.9	524.2	522.2	520.4	519.4	517.0
35°	561.2	561.2	559.9	557.8	558.2	555.8	555.4	555.8	557.1	557.1	554.4
37.5°	605.1	605.8	601.3	600.7	598.9	595.5	593.8	594.5	597.6	599.3	595.5
40°	659.6	661.0	659.6	655.2	653.1	647.3	643.9	643.9	646.3	648.0	646.6
42.5°	713.5	715.9	713.5	710.0	708.3	703.9	702.1	703.5	706.6	708.7	706.6
45°	773.5	775.2	772.1	768.0	765.9	763.5	762.5	763.5	766.9	769.0	768.3
47.5°	832.4	834.8	831.1	829.3	829.3	826.9	829.7	832.4	835.5	840.3	838.3
50°	890.0	893.1	890.7	891.1	893.8	898.3	903.4	908.9	914.4	919.5	920.2
52.5°	941.5	946.3	946.6	952.8	961.3	968.2	982.6	994.6	1007.6	1012.1	1010.0
55°	995.6	1002.1	1010.7	1020.3	1034.0	1048.1	1072.4	1094.0	1111.2	1121.8	1120.1
57.5°	1073.1	1079.6	1088.5	1104.3	1124.9	1144.1	1177.3	1210.9	1237.0	1253.1	1245.2
60°	1173.6	1180.4	1192.1	1208.9	1235.6	1261.7	1307.3	1355.6	1396.1	1414.6	1400.2
62.5°	1306.6	1313.1	1320.6	1342.9	1372.7	1406.3	1463.6	1525.7	1577.1	1594.9	1574.7
65°	1496.2	1504.1	1506.5	1524.6	1553.8	1585.0	1646.7	1716.6	1775.2	1804.4	1763.9
67.5°	1709.8	1712.9	1722.4	1743.7	1773.5	1801.6	1850.3	1916.5	1972.7	1988.8	1945.6
70°	1834.9	1841.1	1857.9	1887.4	1923.0	1967.2	2020.4	2091.7	2155.5	2163.0	2108.1
72.5°	1721.8	1734.4	1764.3	1810.2	1885.0	1963.5	2055.0	2160.3	2251.8	2262.4	2174.3
75°	1381.0	1395.4	1431.0	1481.4	1569.9	1686.5	1818.8	1976.8	2114.0	2131.5	2014.9
77.5°	736.1	753.9	805.7	873.6	999.7	1154.0	1313.4	1493.8	1610.3	1649.8	1565.8
80°	185.5	195.1	220.1	259.9	345.2	469.7	607.2	801.2	945.9	1007.3	945.9
82.5°	72.0	79.2	86.1	90.9	99.1	116.2	160.5	261.6	352.4	434.0	375.8
85°	27.8	29.5	42.5	48.3	48.3	53.1	61.0	72.0	89.1	97.4	81.6
87.5°	11.0	12.0	14.7	22.6	23.3	20.6	21.9	24.7	18.9	15.8	17.8
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	396.0	396.0	396.0	396.0	396.0	396.0	396.0	396.0
2.5°	394.3	393.9	393.2	393.6	393.2	393.2	393.2	393.2
5°	393.9	393.9	393.2	393.2	393.2	393.6	393.2	393.2
7.5°	393.6	393.2	392.6	392.2	392.2	391.9	391.9	391.9
10°	392.9	392.2	391.5	391.2	391.2	390.5	390.5	390.5
12.5°	394.6	393.6	392.9	392.6	392.6	392.6	392.9	392.9
15°	399.4	397.4	396.3	396.0	396.3	397.0	397.4	397.7
17.5°	404.6	402.5	400.8	400.1	400.4	401.5	402.5	403.2
20°	411.1	409.4	407.3	406.6	406.6	408.0	408.7	409.7
22.5°	420.3	419.0	417.2	416.2	415.5	417.2	418.3	419.0
25°	435.1	433.7	432.3	431.3	431.0	432.7	433.4	433.7
27.5°	454.6	453.2	452.6	452.2	451.2	451.9	452.9	452.6
30°	480.0	481.0	480.0	480.0	478.3	479.0	478.3	477.6
32.5°	513.9	512.9	509.8	507.8	505.4	505.4	504.3	503.3
35°	547.9	544.4	542.7	543.8	542.7	543.4	541.7	540.0
37.5°	588.0	585.9	585.6	588.7	588.0	588.7	588.7	586.3
40°	641.1	639.7	642.1	647.3	649.3	649.0	649.7	646.6
42.5°	702.1	699.7	700.8	705.2	707.6	708.3	708.0	705.2
45°	763.2	763.9	763.9	768.7	771.1	772.4	770.0	769.0
47.5°	832.1	833.1	830.7	833.8	834.5	836.9	834.8	833.1
50°	911.6	907.9	902.4	903.4	903.4	902.7	900.3	898.3
52.5°	1000.4	991.8	981.6	978.1	974.4	970.6	965.8	962.0
55°	1101.6	1086.8	1068.3	1059.7	1052.5	1044.0	1033.0	1029.2
57.5°	1218.8	1193.4	1168.8	1153.3	1134.8	1123.5	1109.4	1108.8
60°	1358.0	1323.7	1280.2	1257.2	1238.7	1225.3	1214.7	1210.6
62.5°	1518.8	1459.8	1412.9	1388.2	1366.6	1358.3	1345.0	1346.7
65°	1683.7	1623.7	1578.1	1558.2	1538.0	1532.5	1520.2	1524.6
67.5°	1862.3	1813.0	1762.9	1744.4	1725.9	1720.4	1707.7	1711.5
70°	2022.4	1959.7	1902.8	1866.4	1834.9	1809.5	1793.4	1786.9
72.5°	2054.3	1945.6	1856.2	1765.3	1712.9	1666.9	1648.1	1640.9
75°	1845.9	1677.2	1549.7	1443.0	1384.1	1317.2	1310.0	1300.1
77.5°	1435.8	1243.8	1089.6	952.4	873.2	791.6	763.5	742.3
80°	856.4	658.3	510.2	357.6	291.8	234.8	220.8	206.0
82.5°	306.5	196.4	132.3	103.2	92.2	85.0	79.5	72.3
85°	74.1	62.4	59.0	53.5	52.8	44.9	31.9	28.5
87.5°	23.7	21.6	21.9	20.9	21.9	16.5	13.4	12.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)