

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: P271286

Luminaire Tested: **XNV2-AF-02-LED-U-5NQ-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271286  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24130)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: XNV2-AF-02-LED-U-5NQ-7027-600  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7096.1 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1

Input Watts (W): 66  
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

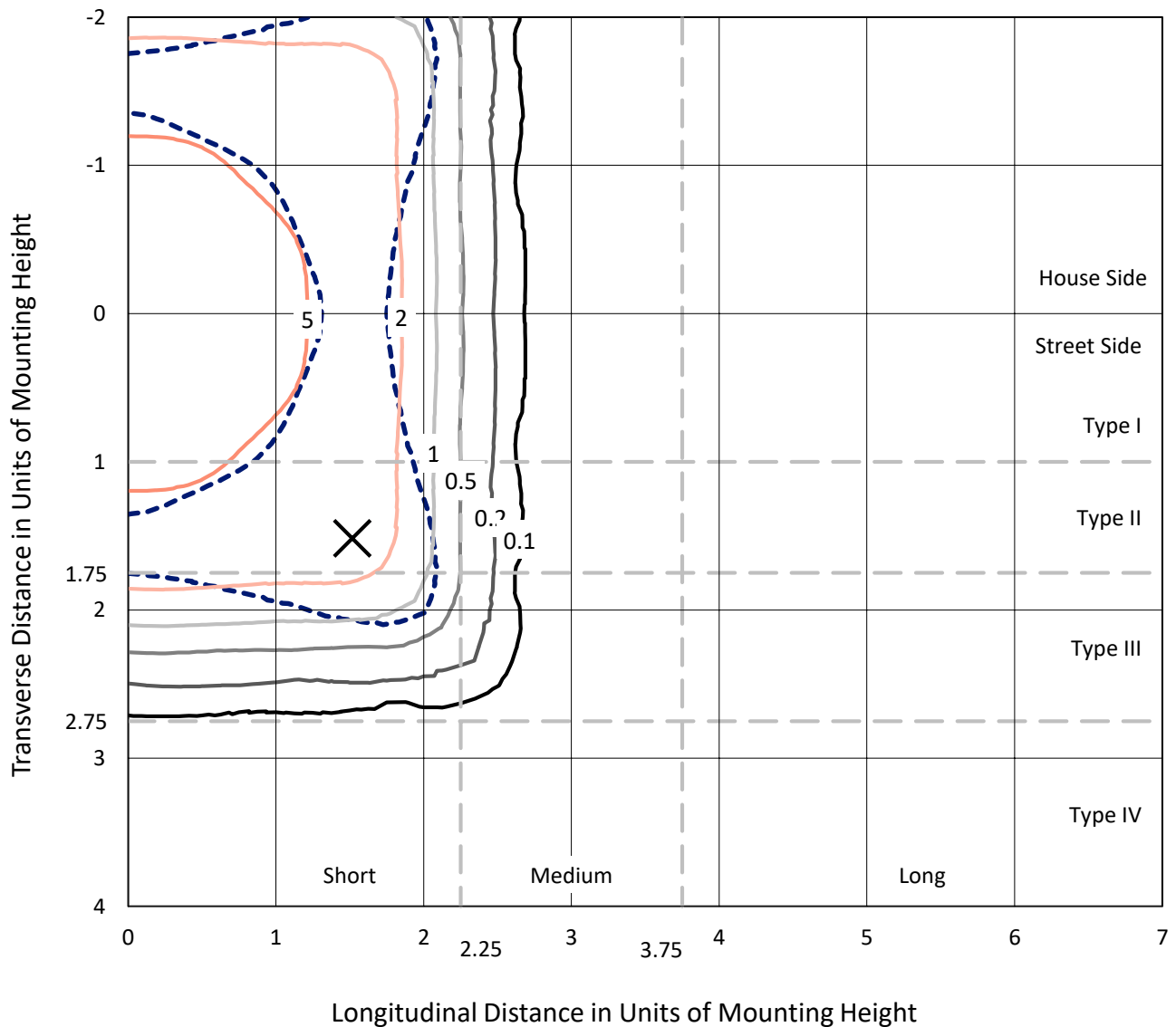


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### Iso-Footcandle Lines of Horizontal Illumination

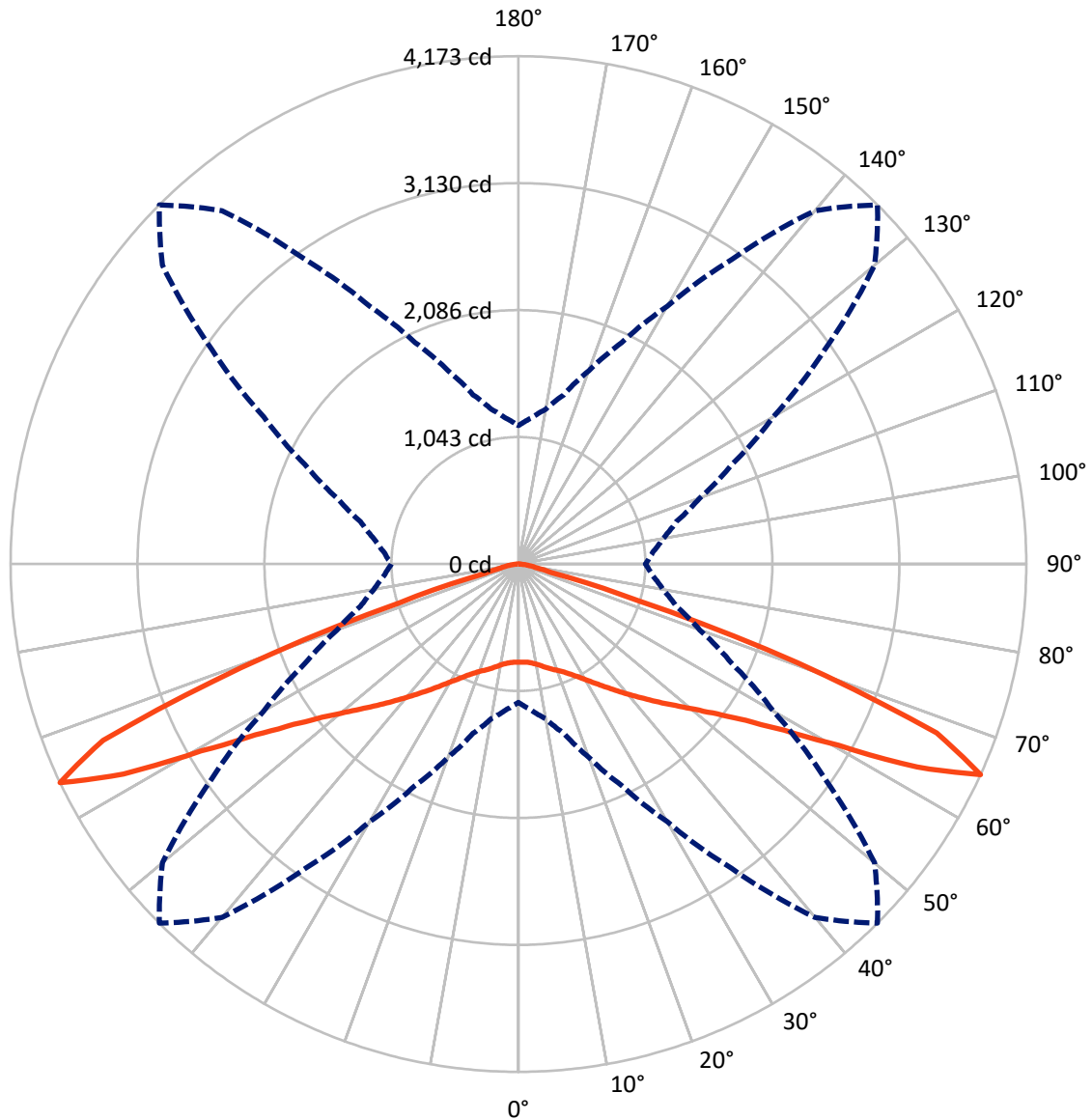
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.1 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical



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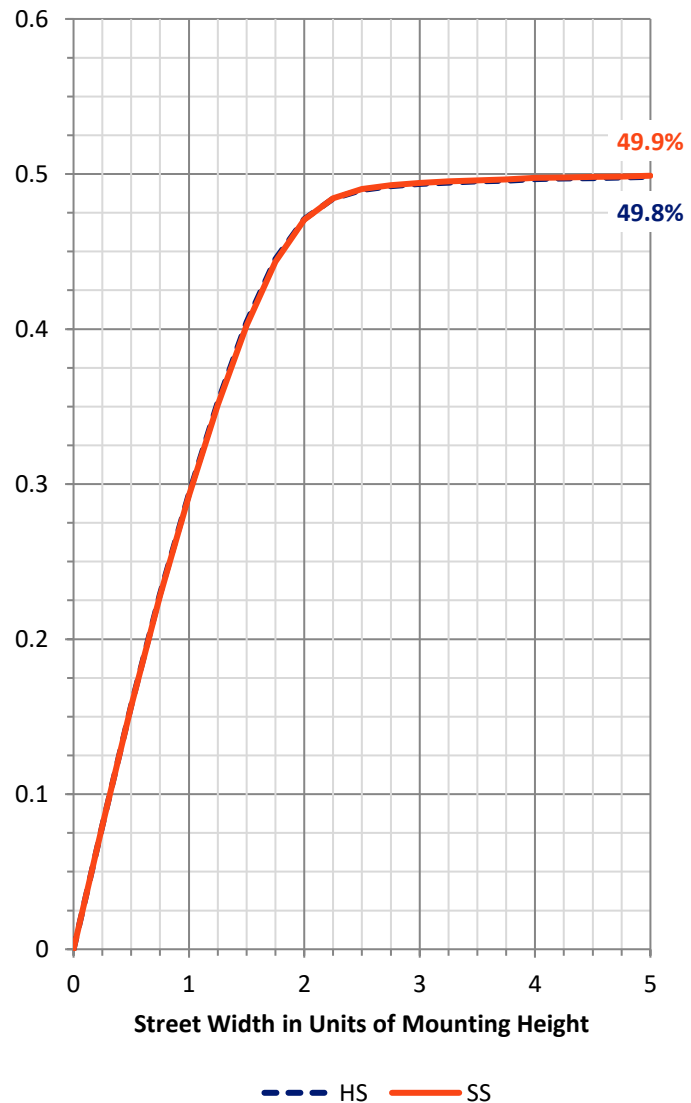
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3548.1	0.0	3548.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3548.1	0.0	3548.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7096.1	0.0	7096.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.6	1.1
10°-20°	251.9	3.6
20°-30°	470.0	6.6
30°-40°	792.4	11.2
40°-50°	1287.1	18.1
50°-60°	2016.7	28.4
60°-70°	1903.7	26.8
70°-80°	256.5	3.6
80°-90°	39.1	0.6
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°	7096.1	100.0
0°-180°	7096.1	100.0

**Coefficient of Utilization**



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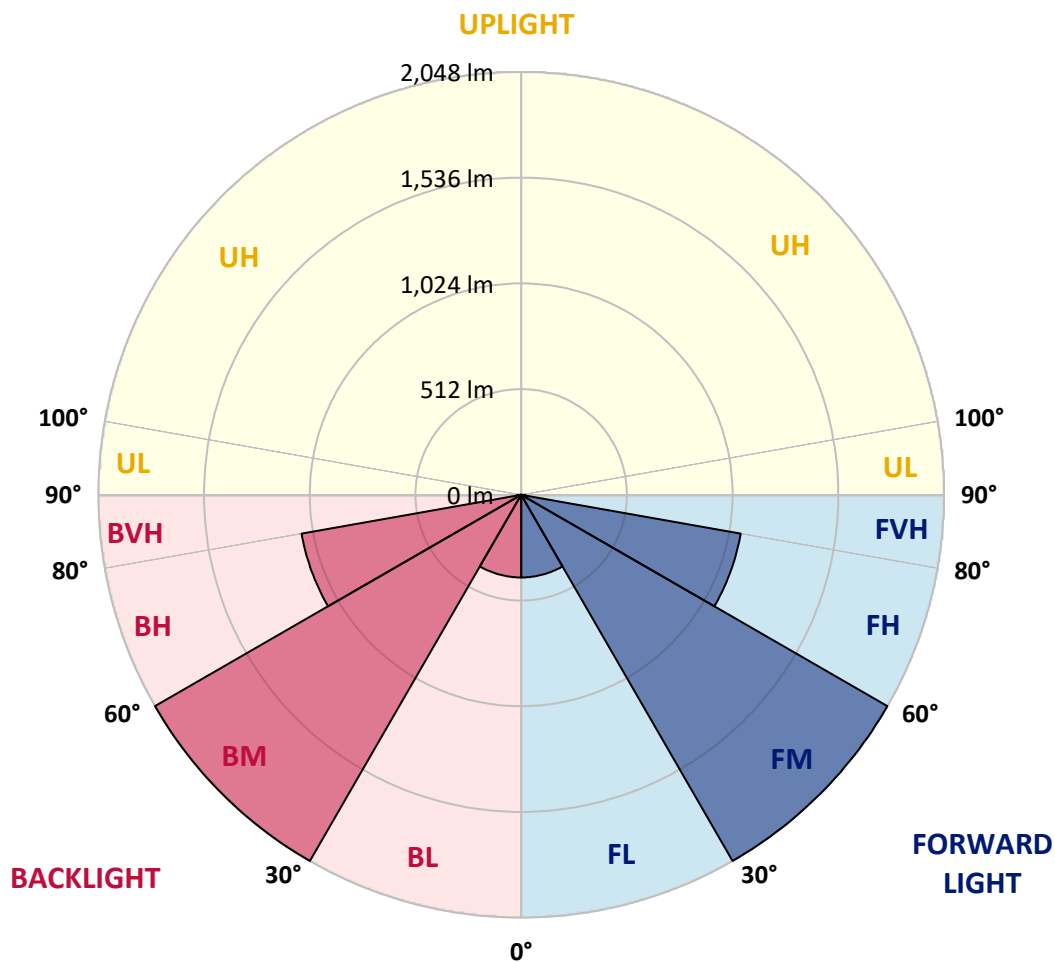
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	400.3	5.6			
FM	(30°-60°)	2048.2	28.9			
FH	(60°-80°)	1080.1	15.2			G1/1800
FVH	(80°-90°)	19.5	0.3			G1/100
BL	(0°-30°)	400.3	5.6	B1/500		
BM	(30°-60°)	2048.2	28.9	B2/2500		
BH	(60°-80°)	1080.1	15.2	B3/2500		G1/1800
BVH	(80°-90°)	19.5	0.3			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°	807.1	807.1	807.1	807.1	807.1	807.1	807.1	807.1	807.1	807.1	807.1
2.5°	813.9	813.9	815.1	814.8	813.0	811.6	810.4	808.6	807.7	806.8	806.3
5°	818.3	818.3	819.6	819.2	817.7	816.0	815.1	813.9	812.4	811.6	812.1
7.5°	829.2	829.8	830.2	829.8	828.3	827.1	825.4	824.9	823.0	821.8	822.7
10°	846.1	846.1	846.6	846.9	846.1	843.0	843.0	842.2	840.4	838.6	838.9
12.5°	864.7	864.7	865.1	865.1	865.1	863.4	863.8	863.4	861.1	860.2	861.1
15°	882.8	883.3	883.3	884.1	884.1	884.6	886.3	886.3	885.4	885.0	885.0
17.5°	904.0	904.9	905.3	906.6	907.1	907.9	909.8	910.2	910.6	909.3	909.8
20°	932.4	932.7	934.1	934.4	936.3	936.3	937.1	936.8	935.9	934.1	934.1
22.5°	964.2	965.0	967.7	967.7	969.8	968.6	968.9	967.7	965.4	964.5	963.6
25°	1005.7	1007.0	1009.2	1008.3	1009.2	1007.0	1007.0	1007.0	1005.7	1004.3	1003.9
27.5°	1058.3	1056.0	1058.3	1056.4	1056.0	1054.3	1054.7	1053.8	1052.5	1052.0	1050.3
30°	1113.1	1110.5	1111.7	1112.2	1111.4	1110.8	1109.0	1107.8	1105.5	1106.1	1104.6
32.5°	1175.8	1173.1	1174.5	1175.0	1174.1	1175.0	1174.5	1171.4	1168.8	1170.5	1170.5
35°	1250.5	1248.7	1252.2	1253.7	1251.0	1249.6	1247.8	1244.3	1240.4	1243.1	1243.4
37.5°	1340.4	1338.0	1340.7	1344.3	1339.5	1336.8	1329.8	1324.5	1321.8	1323.1	1324.8
40°	1433.5	1434.1	1441.5	1442.4	1437.1	1434.1	1426.9	1419.0	1411.4	1411.4	1413.7
42.5°	1531.7	1533.0	1541.9	1544.9	1543.2	1537.4	1527.7	1518.0	1508.3	1510.1	1512.7
45°	1642.6	1640.8	1650.1	1657.6	1656.4	1654.6	1645.2	1627.5	1618.7	1618.3	1622.8
47.5°	1759.3	1762.8	1772.5	1785.4	1785.0	1780.6	1768.7	1752.2	1736.0	1737.2	1742.5
50°	1895.6	1900.4	1916.8	1929.5	1931.3	1930.0	1915.8	1896.9	1873.9	1875.1	1882.2
52.5°	2017.6	2024.6	2043.6	2070.1	2086.5	2093.9	2084.6	2067.0	2043.6	2044.9	2052.4
55°	2128.1	2139.0	2167.3	2203.6	2236.3	2266.9	2280.4	2280.1	2262.8	2266.9	2276.6
57.5°	2197.4	2212.9	2255.7	2314.2	2379.2	2440.5	2493.5	2543.6	2554.6	2575.4	2575.4
60°	2104.1	2140.4	2197.4	2297.3	2425.1	2563.0	2712.4	2857.8	2951.6	3025.3	2985.5
62.5°	1757.2	1810.7	1890.7	2022.4	2221.2	2467.6	2767.7	3105.8	3458.6	3674.2	3516.1
65°	1137.0	1204.2	1291.3	1439.4	1689.9	2007.0	2444.1	3051.9	3790.0	4172.8	3819.2
67.5°	450.4	496.0	549.0	654.2	871.7	1182.9	1673.6	2423.3	3346.7	3707.8	3311.3
70°	215.2	222.8	233.0	255.5	309.8	418.3	672.3	1193.9	2052.4	2433.0	2003.3
72.5°	155.5	156.9	161.8	169.3	185.2	207.2	252.0	365.2	707.8	1029.1	708.7
75°	118.0	119.8	122.4	126.4	134.8	145.4	162.2	194.6	242.3	279.4	241.9
77.5°	89.7	91.4	93.8	97.6	102.0	109.7	115.8	128.6	148.9	156.9	156.0
80°	65.4	68.5	72.0	75.5	78.7	82.3	82.6	88.8	100.3	107.8	105.6
82.5°	41.5	44.1	53.4	57.5	57.9	58.7	58.4	58.7	64.9	70.2	68.5
85°	26.5	28.2	33.1	37.5	36.7	38.4	38.4	37.5	34.9	30.1	35.8
87.5°	13.2	13.7	15.9	19.9	19.0	16.8	16.3	16.3	11.9	10.2	11.0
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°	807.1	807.1	807.1	807.1	807.1	807.1	807.1	807.1
2.5°	805.1	805.9	804.5	804.5	804.2	805.1	803.7	803.7
5°	811.2	812.4	812.1	812.1	813.0	813.9	813.3	813.0
7.5°	822.2	823.0	823.9	824.5	825.4	824.9	825.7	825.4
10°	838.9	838.1	839.5	838.1	838.6	837.7	838.1	838.1
12.5°	860.2	858.9	858.1	857.2	857.2	855.4	855.4	855.7
15°	884.6	882.3	880.6	879.7	878.8	878.8	877.5	878.4
17.5°	908.4	906.2	903.1	903.1	901.8	900.9	900.0	902.2
20°	933.6	931.5	929.7	929.1	926.5	925.7	926.2	928.8
22.5°	962.8	961.5	961.5	960.6	958.9	957.5	957.5	960.6
25°	1002.1	999.5	1000.0	1000.4	999.5	999.5	998.6	1000.8
27.5°	1050.3	1048.1	1049.4	1050.3	1049.4	1050.7	1049.4	1051.1
30°	1106.9	1105.5	1106.9	1108.1	1106.1	1106.1	1105.2	1106.4
32.5°	1174.5	1172.7	1173.6	1173.6	1170.5	1167.8	1164.4	1167.0
35°	1248.7	1246.6	1248.4	1249.6	1246.0	1243.4	1238.1	1240.4
37.5°	1330.6	1331.5	1333.7	1339.5	1338.6	1334.2	1330.1	1331.8
40°	1422.0	1426.5	1436.2	1440.3	1439.4	1435.0	1429.6	1430.5
42.5°	1525.5	1531.3	1541.4	1548.0	1544.9	1538.7	1532.1	1534.8
45°	1638.1	1647.0	1660.2	1667.0	1663.0	1656.4	1647.0	1652.0
47.5°	1757.5	1775.2	1792.9	1801.8	1800.5	1791.2	1779.3	1780.6
50°	1900.4	1923.8	1946.3	1955.3	1948.6	1934.4	1917.6	1917.2
52.5°	2078.0	2103.2	2121.8	2119.6	2103.2	2081.2	2062.1	2061.3
55°	2300.0	2308.4	2305.7	2286.6	2258.0	2223.5	2199.2	2195.2
57.5°	2568.3	2540.0	2498.5	2441.0	2376.5	2311.0	2266.9	2250.4
60°	2896.2	2768.5	2619.9	2463.5	2320.7	2213.8	2146.1	2105.0
62.5°	3167.2	2797.2	2465.3	2193.4	1971.2	1838.9	1746.6	1689.5
65°	3074.4	2416.7	1935.7	1585.1	1342.4	1206.0	1108.1	1043.2
67.5°	2375.1	1614.9	1123.7	778.9	590.5	499.9	436.8	395.7
70°	1197.5	619.3	375.3	264.8	226.4	210.5	199.9	193.7
72.5°	351.4	234.7	194.9	172.5	158.7	148.9	142.8	139.6
75°	194.6	158.7	140.1	127.3	118.4	111.7	107.8	105.2
77.5°	133.9	115.4	106.1	97.6	90.5	85.8	82.6	79.9
80°	93.8	84.4	80.5	76.0	70.7	66.7	62.3	60.5
82.5°	62.3	58.4	57.5	53.9	50.8	46.4	38.4	35.8
85°	36.7	36.2	36.2	34.9	32.7	28.7	22.9	22.9
87.5°	12.8	13.2	13.7	14.6	14.2	11.9	9.7	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)