

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: P271209

Luminaire Tested: **XNV-AF-01-LED-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271209
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-7027
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 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: 5466.9 lumens
Efficiency: N/A
Efficacy: 94.3 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

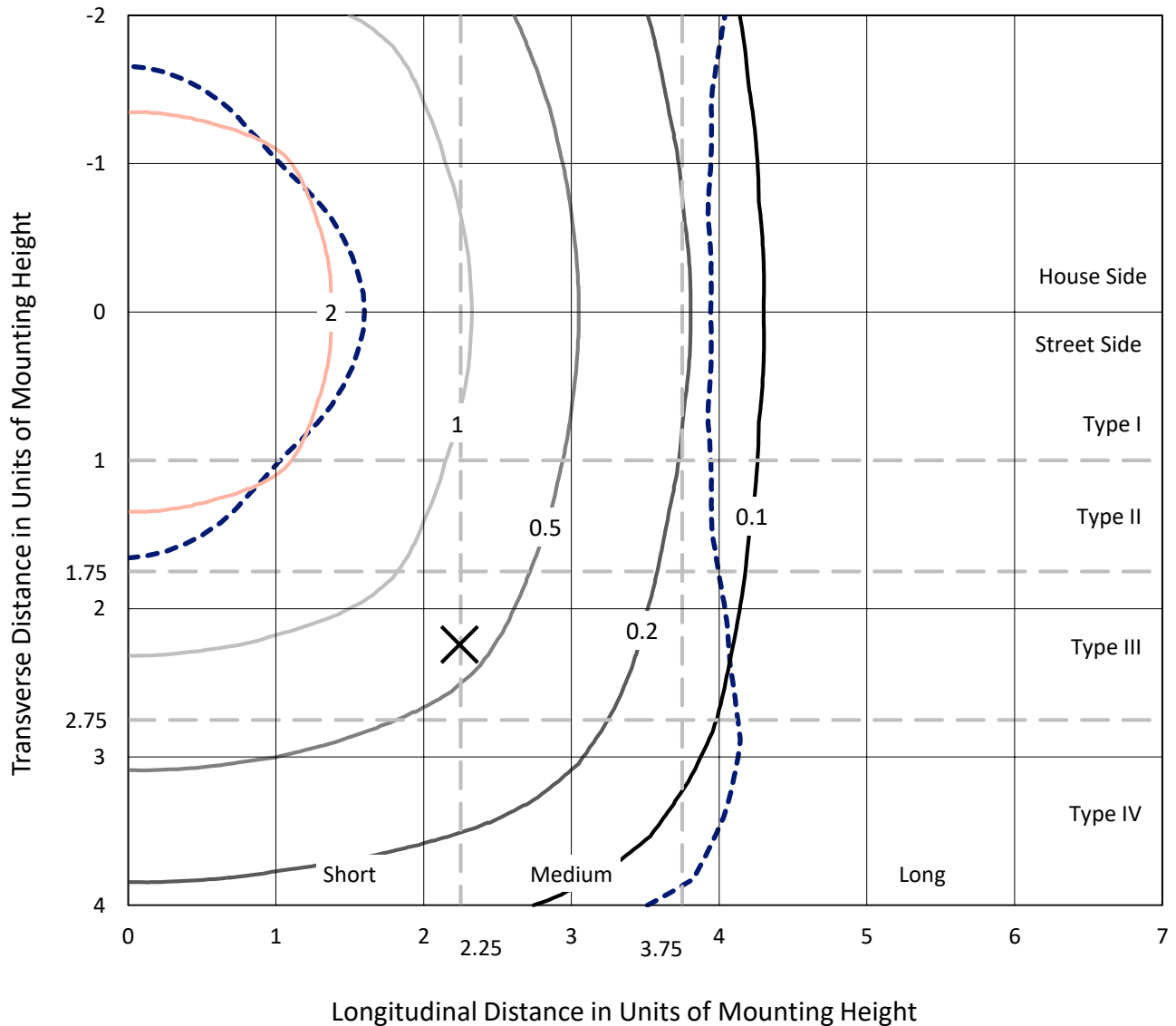
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

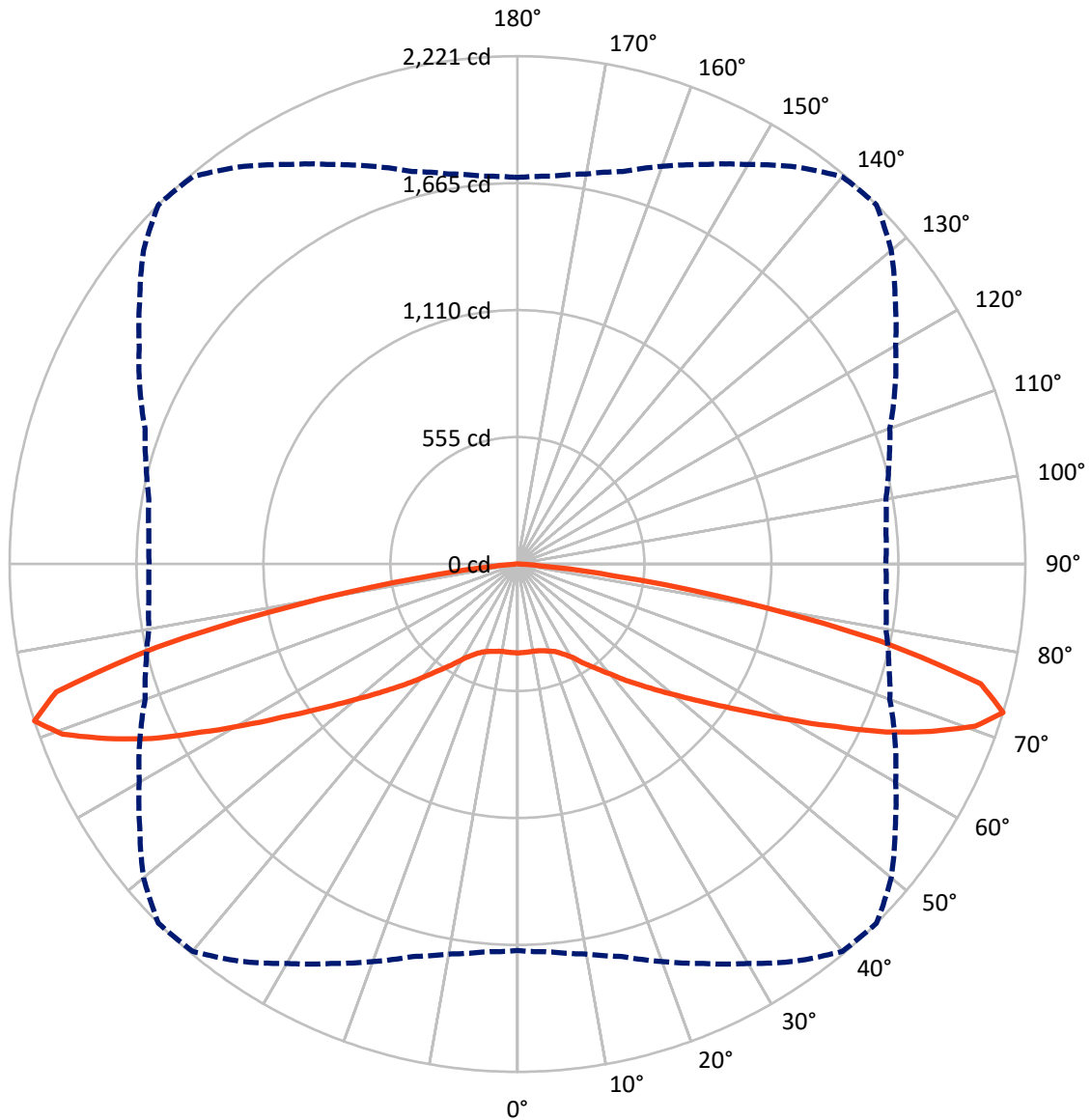
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.9 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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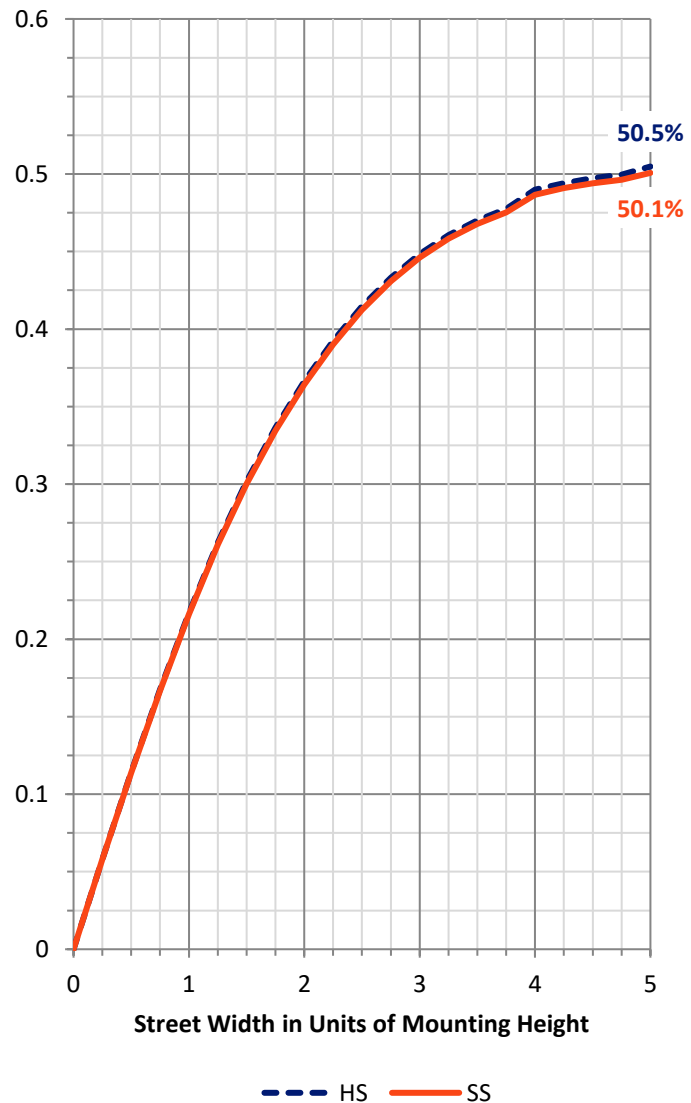
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2733.4	0.0	2733.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2733.4	0.0	2733.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	5466.9	0.0	5466.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.1	0.7
10°-20°	112.3	2.1
20°-30°	202.7	3.7
30°-40°	345.7	6.3
40°-50°	588.6	10.8
50°-60°	947.2	17.3
60°-70°	1575.3	28.8
70°-80°	1523.9	27.9
80°-90°	134.1	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°	5466.9	100.0
0°-180°	5466.9	100.0



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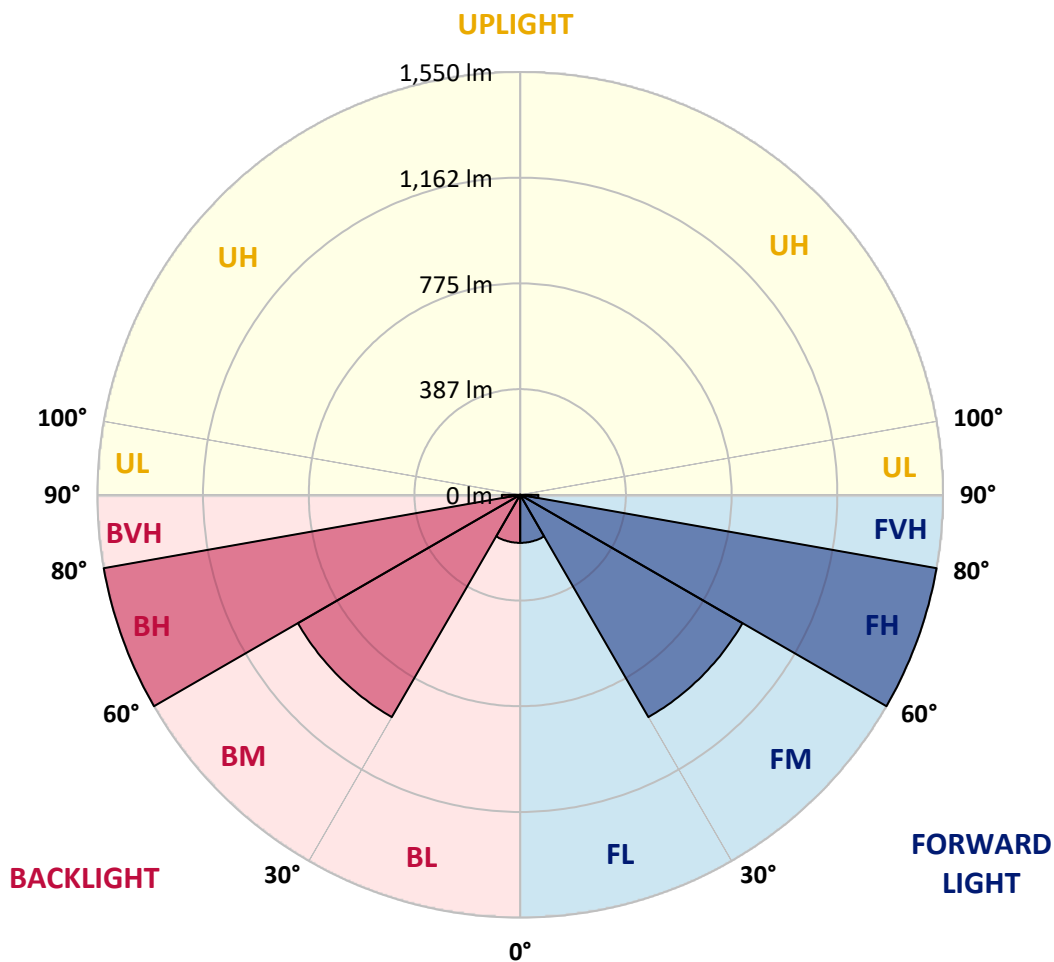
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	176.0	3.2			
FM	(30°-60°)	940.8	17.2			
FH	(60°-80°)	1549.6	28.3			G1/1800
FVH	(80°-90°)	67.1	1.2			G1/100
BL	(0°-30°)	176.0	3.2	B1/500		
BM	(30°-60°)	940.8	17.2	B1/1000		
BH	(60°-80°)	1549.6	28.3	B3/2500		G1/1800
BVH	(80°-90°)	67.1	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°	388.6	388.6	388.6	388.6	388.6	388.6	388.6	388.6	388.6	388.6	388.6
2.5°	391.8	391.8	392.0	391.8	391.0	390.7	389.7	389.0	388.2	388.0	387.3
5°	392.0	392.0	392.4	392.0	391.3	390.7	390.0	389.0	388.2	387.7	387.3
7.5°	393.4	393.6	394.0	393.6	392.4	391.8	390.7	389.7	388.2	387.7	387.0
10°	396.1	396.1	396.1	395.8	394.7	393.4	392.0	391.0	389.3	387.7	386.6
12.5°	398.0	398.4	398.4	397.7	396.4	394.7	393.4	392.4	391.0	389.7	388.6
15°	401.2	401.2	400.7	399.4	397.4	396.1	395.3	395.1	394.7	394.0	393.0
17.5°	407.1	406.8	405.9	403.8	401.5	400.5	399.7	399.7	399.7	399.4	398.8
20°	415.9	415.9	414.6	411.2	409.2	408.2	407.1	407.1	407.1	406.2	405.1
22.5°	430.1	430.4	428.3	424.3	421.7	419.6	418.3	417.3	416.3	415.6	413.8
25°	449.2	449.0	446.5	441.4	439.5	437.5	434.8	433.1	431.7	430.6	428.8
27.5°	469.5	469.0	466.4	462.0	460.7	457.6	455.6	453.3	451.6	450.0	447.9
30°	495.3	493.7	491.6	488.3	487.6	485.3	482.5	479.2	476.6	473.8	471.4
32.5°	518.5	518.5	515.4	513.8	515.2	514.2	514.5	512.6	510.7	509.8	507.5
35°	550.8	550.8	549.6	547.4	547.8	545.5	545.1	545.5	546.8	546.8	544.2
37.5°	593.9	594.6	590.1	589.6	587.9	584.4	582.8	583.4	586.6	588.2	584.4
40°	647.4	648.8	647.4	643.0	641.0	635.3	632.0	632.0	634.4	636.0	634.7
42.5°	700.3	702.7	700.3	696.8	695.2	690.8	689.1	690.4	693.5	695.6	693.5
45°	759.2	760.9	757.8	753.8	751.7	749.4	748.4	749.4	752.7	754.8	754.0
47.5°	817.0	819.3	815.8	814.0	814.0	811.6	814.4	817.0	820.1	824.7	822.8
50°	873.5	876.6	874.2	874.6	877.3	881.6	886.6	892.0	897.4	902.4	903.2
52.5°	924.0	928.8	929.0	935.1	943.5	950.2	964.4	976.2	988.9	993.3	991.3
55°	977.1	983.6	992.0	1001.4	1014.8	1028.6	1052.5	1073.7	1090.6	1101.1	1099.3
57.5°	1053.3	1059.6	1068.4	1083.8	1104.0	1122.9	1155.5	1188.5	1214.1	1229.9	1222.1
60°	1151.8	1158.5	1170.0	1186.5	1212.7	1238.4	1283.0	1330.5	1370.3	1388.4	1374.2
62.5°	1282.4	1288.8	1296.2	1318.1	1347.3	1380.2	1436.5	1497.5	1547.9	1565.3	1545.5
65°	1468.5	1476.3	1478.6	1496.3	1525.1	1555.7	1616.2	1684.9	1742.4	1771.0	1731.3
67.5°	1678.2	1681.2	1690.5	1711.5	1740.6	1768.3	1816.1	1881.1	1936.1	1951.9	1909.5
70°	1800.9	1807.0	1823.5	1852.5	1887.3	1930.7	1983.0	2052.9	2115.6	2123.0	2069.1
72.5°	1689.9	1702.3	1731.7	1776.7	1850.1	1927.1	2017.0	2120.3	2210.1	2220.5	2134.1
75°	1355.5	1369.6	1404.5	1453.9	1540.9	1655.2	1785.1	1940.2	2074.8	2092.1	1977.6
77.5°	722.4	739.9	790.8	857.4	981.2	1132.7	1289.1	1466.2	1580.5	1619.3	1536.8
80°	182.0	191.5	216.0	255.1	338.8	461.0	595.9	786.3	928.4	988.7	928.4
82.5°	70.6	77.8	84.5	89.2	97.2	114.1	157.6	256.7	345.8	425.9	368.8
85°	27.3	28.9	41.7	47.4	47.4	52.1	59.8	70.6	87.5	95.6	80.0
87.5°	10.8	11.8	14.5	22.2	22.8	20.2	21.5	24.3	18.5	15.5	17.4
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°	388.6	388.6	388.6	388.6	388.6	388.6	388.6	388.6
2.5°	387.0	386.6	385.9	386.4	385.9	385.9	385.9	385.9
5°	386.6	386.6	385.9	385.9	385.9	386.4	385.9	385.9
7.5°	386.4	385.9	385.4	385.0	385.0	384.7	384.7	384.7
10°	385.6	385.0	384.2	383.9	383.9	383.2	383.2	383.2
12.5°	387.3	386.4	385.6	385.4	385.4	385.4	385.6	385.6
15°	392.0	390.0	389.0	388.6	389.0	389.7	390.0	390.4
17.5°	397.1	395.1	393.4	392.6	393.0	394.0	395.1	395.8
20°	403.5	401.8	399.7	399.0	399.0	400.5	401.2	402.1
22.5°	412.5	411.2	409.4	408.5	407.8	409.4	410.5	411.2
25°	427.1	425.6	424.3	423.3	423.0	424.7	425.3	425.6
27.5°	446.2	444.8	444.2	443.9	442.9	443.6	444.5	444.2
30°	471.2	472.1	471.2	471.2	469.5	470.2	469.5	468.7
32.5°	504.4	503.4	500.4	498.4	496.0	496.0	495.0	494.0
35°	537.7	534.3	532.6	533.8	532.6	533.4	531.6	530.0
37.5°	577.2	575.0	574.7	577.8	577.2	577.8	577.8	575.5
40°	629.3	627.8	630.3	635.3	637.3	637.0	637.6	634.7
42.5°	689.1	686.8	687.8	692.1	694.5	695.2	694.8	692.1
45°	749.0	749.7	749.7	754.4	756.8	758.1	755.7	754.8
47.5°	816.6	817.6	815.3	818.4	819.1	821.4	819.3	817.6
50°	894.7	891.1	885.6	886.6	886.6	886.0	883.7	881.6
52.5°	981.8	973.5	963.4	960.0	956.3	952.7	947.9	944.2
55°	1081.2	1066.6	1048.5	1040.1	1033.1	1024.6	1013.8	1010.1
57.5°	1196.3	1171.3	1147.1	1132.0	1113.8	1102.7	1088.8	1088.2
60°	1332.8	1299.2	1256.5	1233.9	1215.8	1202.7	1192.2	1188.2
62.5°	1490.6	1432.7	1386.8	1362.5	1341.3	1333.2	1320.1	1321.8
65°	1652.5	1593.7	1548.9	1529.4	1509.5	1504.1	1492.1	1496.3
67.5°	1827.8	1779.5	1730.2	1712.1	1693.9	1688.5	1676.1	1679.8
70°	1985.0	1923.5	1867.5	1831.9	1800.9	1775.9	1760.1	1753.9
72.5°	2016.2	1909.5	1821.9	1732.7	1681.2	1636.1	1617.6	1610.5
75°	1811.7	1646.1	1521.0	1416.3	1358.4	1292.8	1285.7	1276.0
77.5°	1409.3	1220.7	1069.4	934.7	857.1	776.9	749.4	728.5
80°	840.5	646.2	500.7	351.0	286.4	230.4	216.8	202.2
82.5°	300.8	192.7	129.8	101.2	90.5	83.5	78.1	71.0
85°	72.8	61.3	57.9	52.6	51.8	44.0	31.4	27.9
87.5°	23.3	21.2	21.5	20.5	21.5	16.2	13.1	11.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)