

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: P271224

Luminaire Tested: **XNV-AF-01-LED-U-RW-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271224
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-7027-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5891.8 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Medium - 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

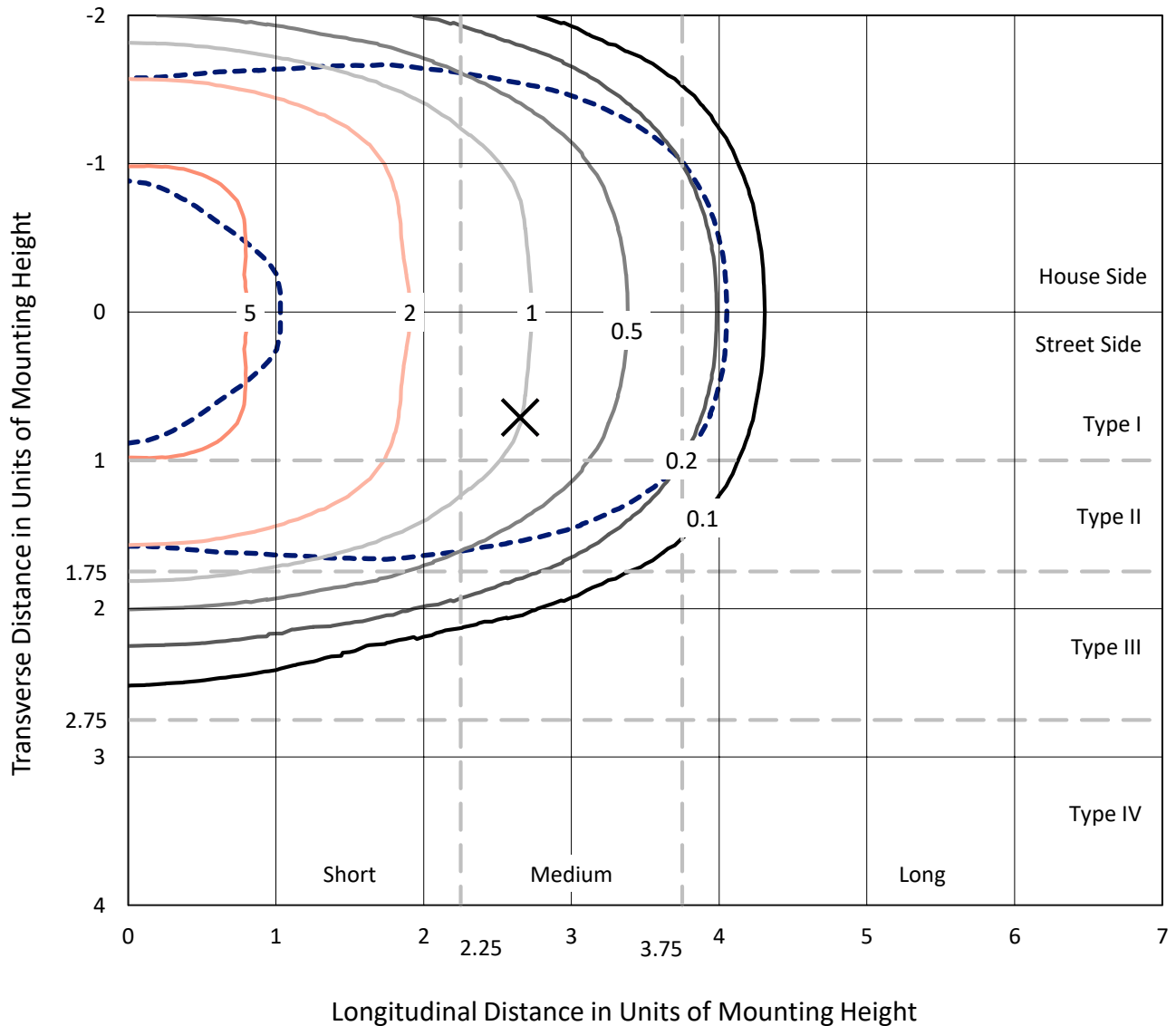


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

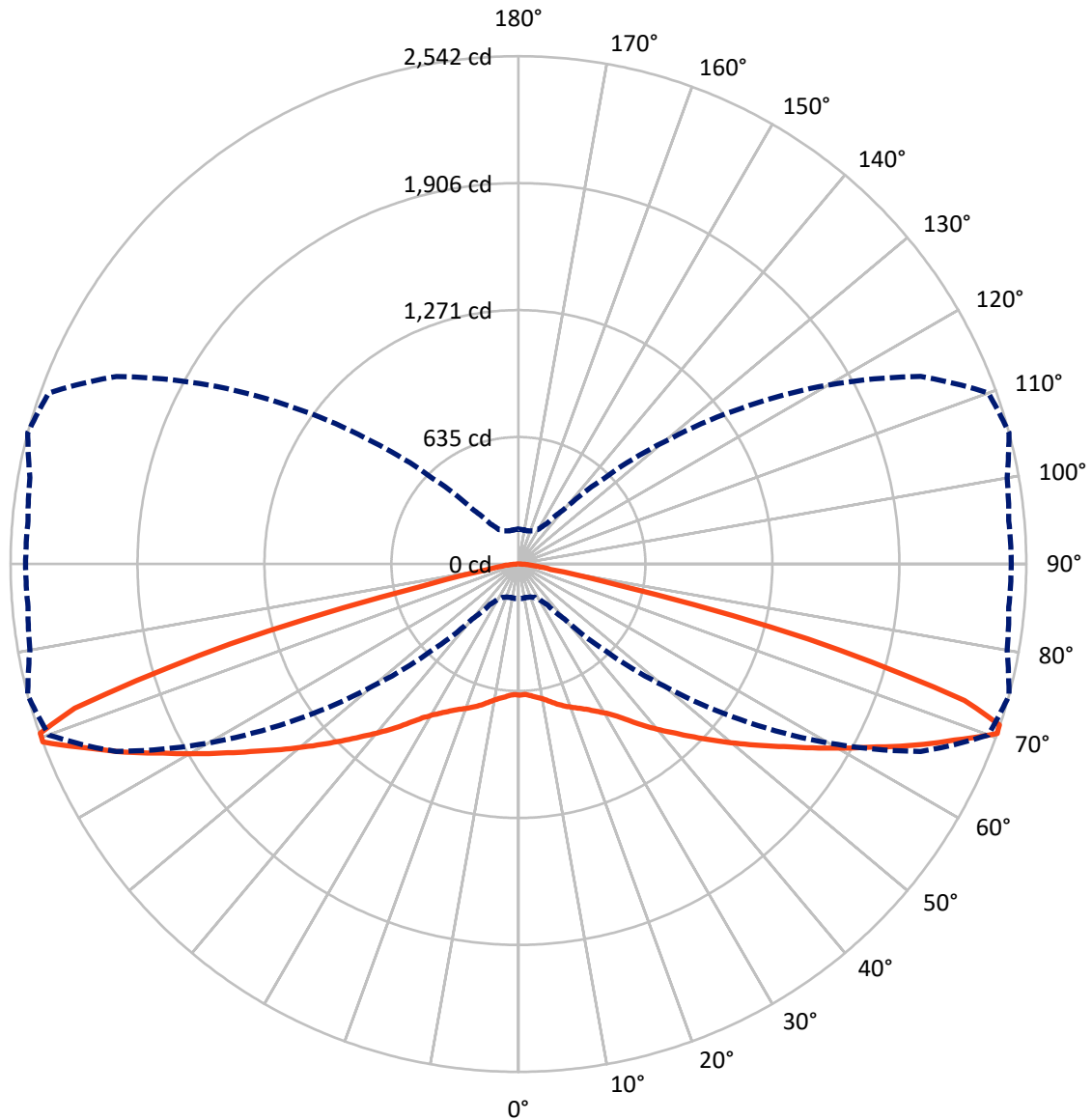


Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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

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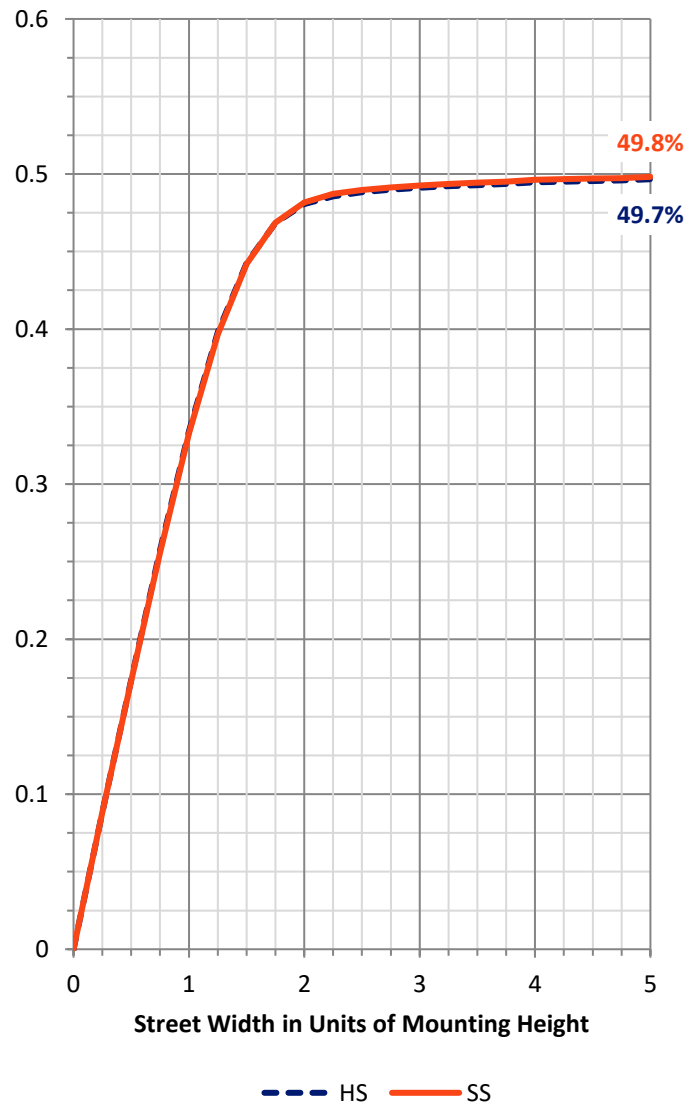
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2945.9	0.0	2945.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2945.9	0.0	2945.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	5891.8	0.0	5891.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.9	1.1
10°-20°	195.2	3.3
20°-30°	366.6	6.2
30°-40°	645.7	11.0
40°-50°	1070.2	18.2
50°-60°	1488.8	25.3
60°-70°	1405.4	23.9
70°-80°	600.3	10.2
80°-90°	56.7	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°	5891.8	100.0
0°-180°	5891.8	100.0

Coefficient of Utilization



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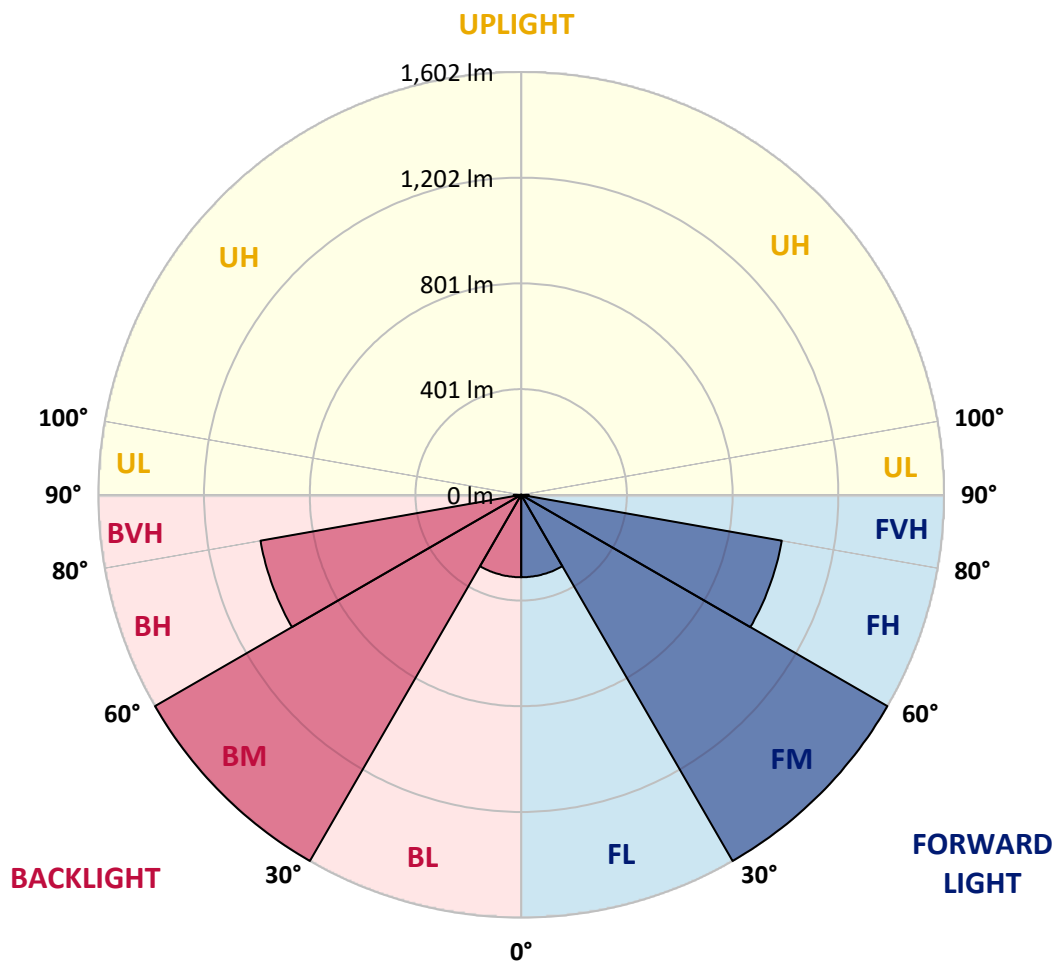
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	312.3	5.3			
FM	(30°-60°)	1602.3	27.2			
FH	(60°-80°)	1002.9	17.0			G1/1800
FVH	(80°-90°)	28.4	0.5			G1/100
BL	(0°-30°)	312.3	5.3	B1/500		
BM	(30°-60°)	1602.3	27.2	B2/2500		
BH	(60°-80°)	1002.9	17.0	B3/2500		G1/1800
BVH	(80°-90°)	28.4	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1
2.5°	660.2	659.9	660.2	659.0	659.4	659.0	659.0	657.6	657.6	656.8	655.8
5°	652.8	653.5	653.5	653.5	654.7	654.7	656.1	656.5	657.6	658.6	659.4
7.5°	640.6	641.0	642.1	642.7	645.1	647.9	650.9	654.2	657.2	661.0	664.9
10°	630.3	631.0	632.9	634.7	638.8	642.5	647.6	652.8	658.0	664.2	670.6
12.5°	624.7	625.8	628.9	631.8	638.1	642.7	649.8	658.0	664.9	670.9	678.0
15°	625.5	625.8	629.9	633.9	642.7	649.5	659.4	669.1	677.5	684.1	692.4
17.5°	636.2	636.9	641.0	646.9	655.4	663.8	674.5	684.6	695.9	703.7	713.3
20°	657.2	658.3	662.8	669.1	678.3	687.2	698.3	708.6	720.4	729.7	739.1
22.5°	684.6	686.3	691.2	698.9	708.1	718.9	730.3	741.0	752.2	761.4	769.5
25°	721.1	723.3	728.4	736.3	745.5	756.9	768.7	779.8	791.2	798.2	804.9
27.5°	770.1	773.9	779.4	785.7	793.8	806.0	817.1	826.4	837.4	845.1	849.5
30°	836.3	841.4	845.9	852.5	858.4	871.4	880.2	887.6	896.1	900.6	901.7
32.5°	917.2	922.0	926.4	931.3	939.3	951.1	959.6	963.7	968.2	967.4	963.3
35°	1008.3	1012.0	1014.6	1023.1	1036.5	1044.2	1050.5	1051.9	1052.6	1044.9	1037.2
37.5°	1104.3	1108.8	1111.1	1124.3	1136.8	1145.7	1148.7	1151.9	1149.8	1136.8	1122.8
40°	1208.1	1212.9	1219.5	1230.9	1245.8	1254.3	1257.9	1257.5	1255.7	1240.6	1217.7
42.5°	1310.0	1315.8	1321.4	1341.3	1353.6	1367.9	1369.8	1369.5	1365.5	1348.0	1321.4
45°	1396.4	1403.4	1414.9	1437.0	1456.6	1473.9	1480.9	1483.6	1479.5	1461.1	1430.7
47.5°	1467.7	1472.5	1486.9	1513.9	1538.9	1564.4	1578.4	1588.5	1588.1	1574.8	1542.6
50°	1516.3	1522.0	1539.7	1570.0	1601.3	1631.2	1658.9	1681.4	1692.1	1682.5	1652.6
52.5°	1530.4	1537.4	1560.7	1596.8	1633.5	1673.7	1715.0	1754.8	1779.0	1784.8	1761.5
55°	1471.3	1479.1	1513.0	1563.3	1623.4	1683.0	1745.6	1802.5	1852.0	1874.9	1865.7
57.5°	1299.3	1304.9	1348.0	1413.0	1499.0	1603.6	1709.1	1813.3	1898.2	1957.6	1967.9
60°	1027.5	1034.6	1081.7	1150.5	1248.4	1380.5	1528.2	1698.9	1865.3	2001.6	2069.2
62.5°	693.4	698.3	743.6	806.4	913.4	1040.9	1205.5	1421.5	1658.9	1902.3	2092.8
65°	364.1	364.1	394.6	438.6	523.9	638.1	806.8	1028.3	1310.7	1614.7	1933.2
67.5°	211.2	210.8	217.8	227.8	254.8	300.9	393.9	556.8	824.1	1177.9	1540.5
70°	174.4	173.2	172.0	172.0	176.1	183.2	200.9	245.5	359.2	607.3	947.8
71°	166.5	165.7	162.9	161.8	163.6	167.3	175.0	195.7	255.1	414.3	707.9
72.5°	157.4	155.4	151.1	149.2	149.6	151.1	153.3	161.3	179.4	235.5	403.6
75°	143.3	138.8	133.3	130.8	129.5	129.3	129.3	131.4	135.6	142.1	165.4
77.5°	127.0	120.7	114.9	112.3	110.4	109.4	108.5	107.1	106.3	109.4	117.8
80°	107.4	100.8	95.9	94.5	93.5	91.2	88.3	85.2	83.5	84.9	90.1
82.5°	83.1	76.4	77.2	77.6	75.6	72.0	69.0	65.8	62.4	61.7	64.3
85°	66.0	62.8	60.5	65.3	61.3	56.9	52.8	47.3	39.5	32.5	35.5
87.5°	28.4	28.7	41.3	62.4	54.6	43.9	36.6	29.6	18.9	14.1	14.5
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°	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1
2.5°	655.4	655.4	654.2	653.5	653.5	653.5	652.8	653.2
5°	659.9	660.6	661.3	661.0	662.1	663.0	662.8	662.4
7.5°	667.3	669.3	671.7	672.7	674.2	675.6	676.1	674.9
10°	674.5	678.9	682.4	685.2	687.2	688.6	689.7	689.3
12.5°	683.8	690.1	695.9	701.8	706.0	708.1	710.4	709.7
15°	698.9	706.0	713.3	721.1	727.4	730.7	734.0	733.2
17.5°	719.6	725.9	731.8	739.6	747.3	751.1	754.7	754.3
20°	745.5	750.3	753.6	758.0	765.4	769.5	772.8	771.6
22.5°	775.0	776.5	776.9	778.3	784.2	789.0	793.5	794.6
25°	807.1	806.0	803.9	802.6	806.8	811.9	817.5	819.0
27.5°	847.0	843.2	837.8	833.4	834.4	841.2	847.5	848.9
30°	897.1	888.8	876.9	868.4	867.0	874.0	880.6	882.9
32.5°	954.4	943.0	926.7	913.8	908.2	914.6	920.5	923.7
35°	1022.5	1009.9	990.2	973.7	964.8	968.8	979.2	982.8
37.5°	1102.8	1085.5	1063.8	1042.8	1027.9	1028.6	1039.8	1044.2
40°	1191.8	1166.8	1139.1	1112.8	1091.4	1090.0	1100.0	1103.3
42.5°	1284.5	1252.3	1219.9	1185.7	1159.1	1154.2	1167.1	1167.4
45°	1384.2	1342.8	1302.6	1262.7	1235.1	1226.5	1239.1	1240.6
47.5°	1490.6	1438.8	1391.2	1348.0	1318.2	1304.9	1317.0	1319.3
50°	1601.3	1547.8	1492.4	1444.5	1409.4	1393.1	1407.5	1408.9
52.5°	1711.0	1660.3	1605.5	1550.4	1508.0	1489.5	1506.5	1511.6
55°	1821.5	1772.6	1721.0	1665.9	1612.4	1596.2	1614.7	1620.2
57.5°	1936.1	1889.3	1842.5	1787.1	1734.9	1710.3	1730.1	1738.0
60°	2062.9	2021.5	1977.2	1921.5	1870.1	1841.3	1858.4	1867.1
62.5°	2187.4	2178.7	2138.5	2080.6	2015.5	1986.8	2001.2	2007.5
65°	2197.7	2335.4	2333.4	2275.9	2185.0	2136.7	2140.8	2143.7
67.5°	1918.2	2234.2	2436.2	2454.2	2353.1	2277.5	2268.5	2270.3
70°	1358.0	1791.8	2220.5	2501.9	2541.8	2483.1	2463.8	2466.7
71°	1088.0	1537.4	2009.2	2387.8	2538.8	2521.8	2511.1	2518.8
72.5°	694.5	1132.9	1592.1	2044.7	2334.7	2417.7	2429.8	2434.6
75°	252.2	487.4	824.9	1181.9	1498.0	1715.5	1835.1	1844.7
77.5°	135.6	174.6	269.9	403.2	506.6	562.0	568.5	571.2
80°	99.7	115.5	132.2	151.1	162.9	165.1	160.9	152.5
82.5°	70.5	79.8	86.3	93.1	97.8	93.9	78.0	59.5
85°	41.1	45.0	48.8	52.0	52.8	49.9	32.9	26.9
87.5°	16.3	17.7	17.3	19.6	18.9	17.3	12.9	11.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)