

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: P198688

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198688
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-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6936.6 lumens
Efficiency: N/A
Efficacy: 105.1 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

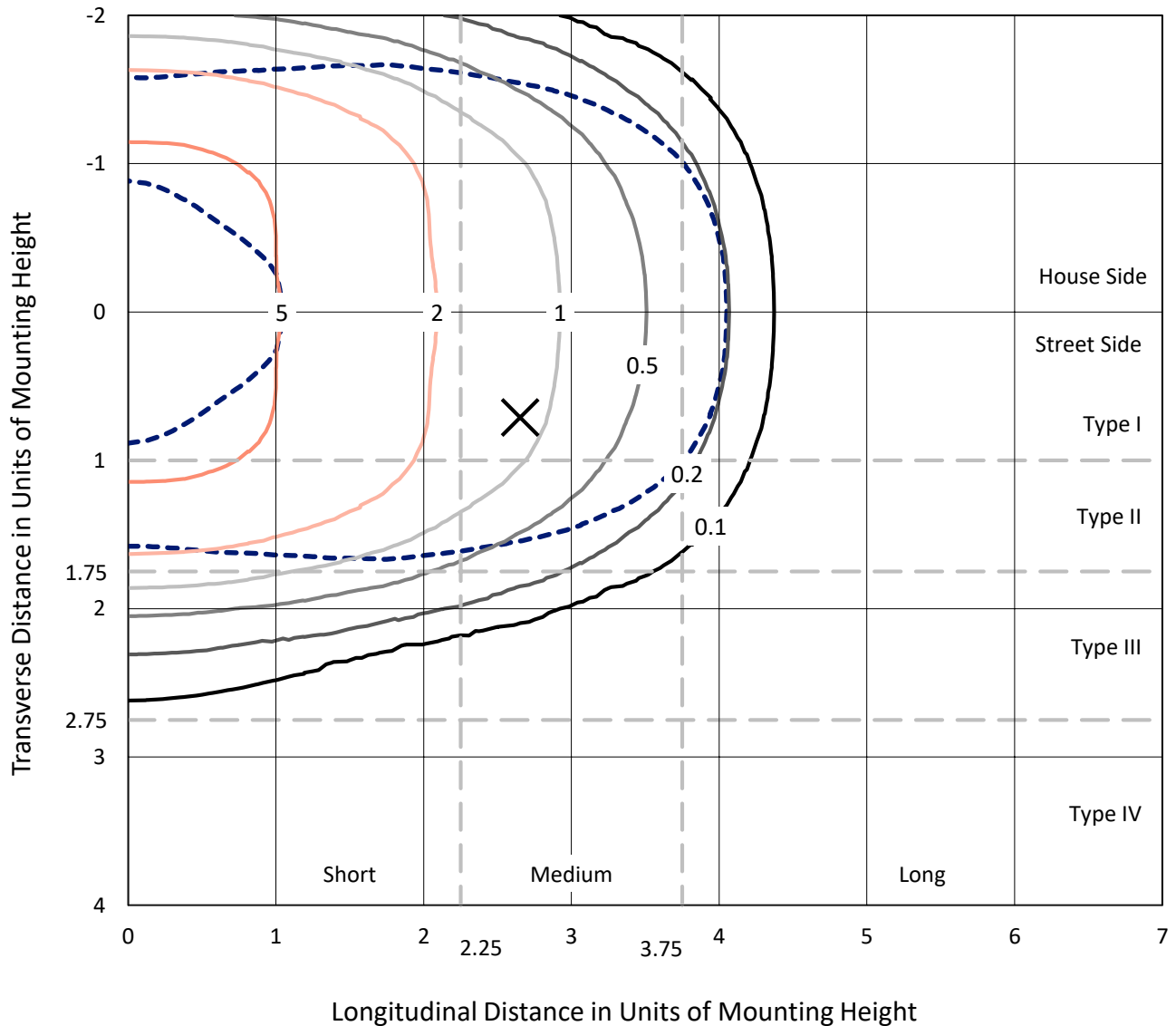


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

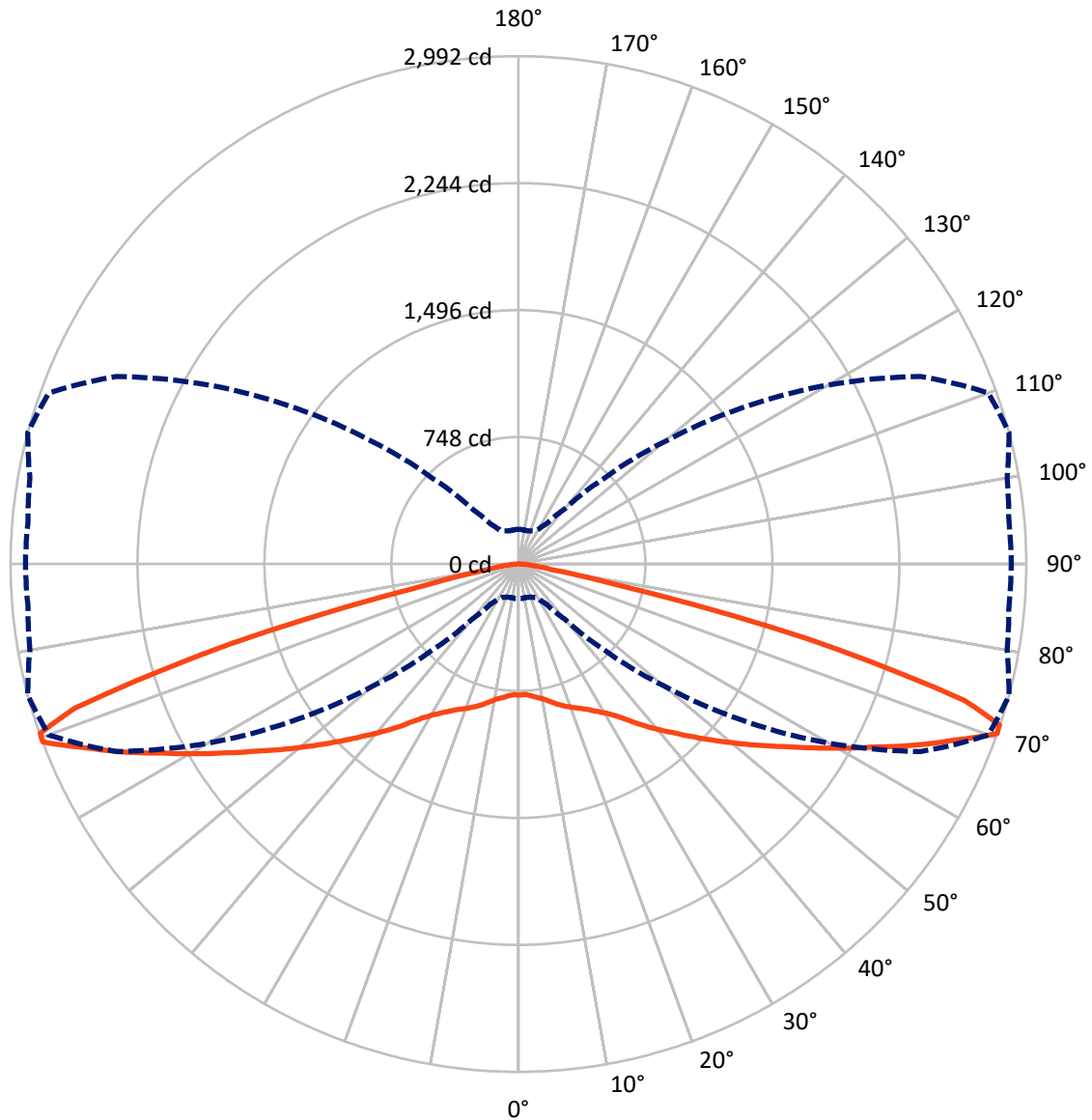


Based on 10 foot mounting height. Maximum calculated value = 7.8 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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

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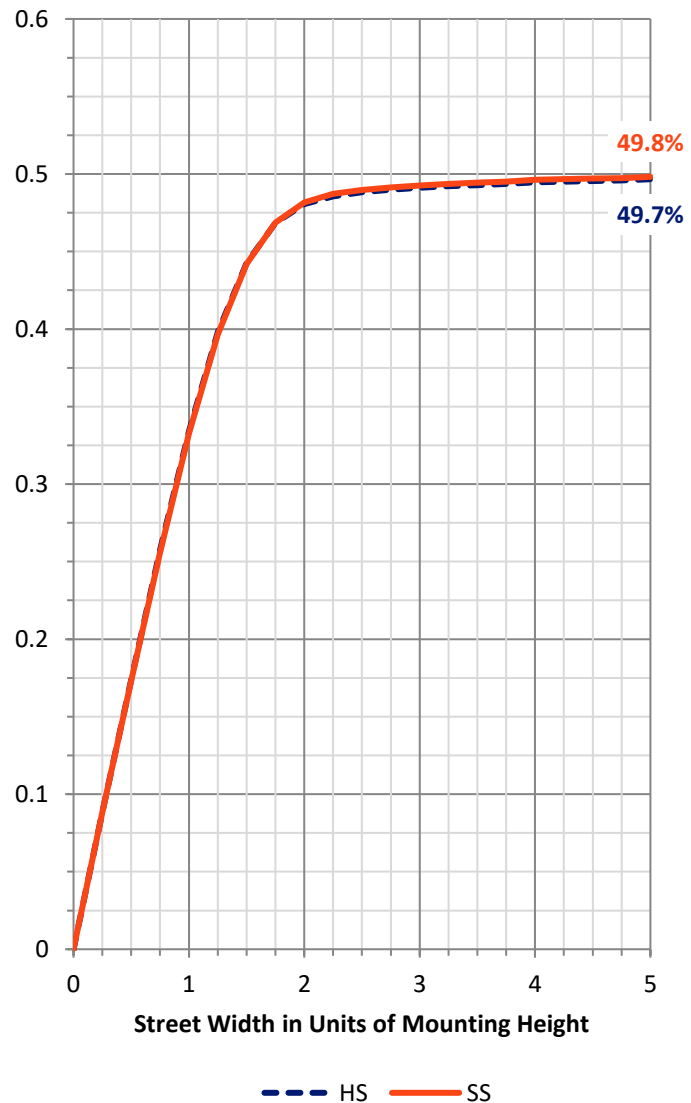
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3468.3	0.0	3468.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3468.3	0.0	3468.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	6936.6	0.0	6936.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	1.1
10°-20°	229.8	3.3
20°-30°	431.6	6.2
30°-40°	760.2	11.0
40°-50°	1260.0	18.2
50°-60°	1752.8	25.3
60°-70°	1654.7	23.9
70°-80°	706.7	10.2
80°-90°	66.8	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°	6936.6	100.0
0°-180°	6936.6	100.0



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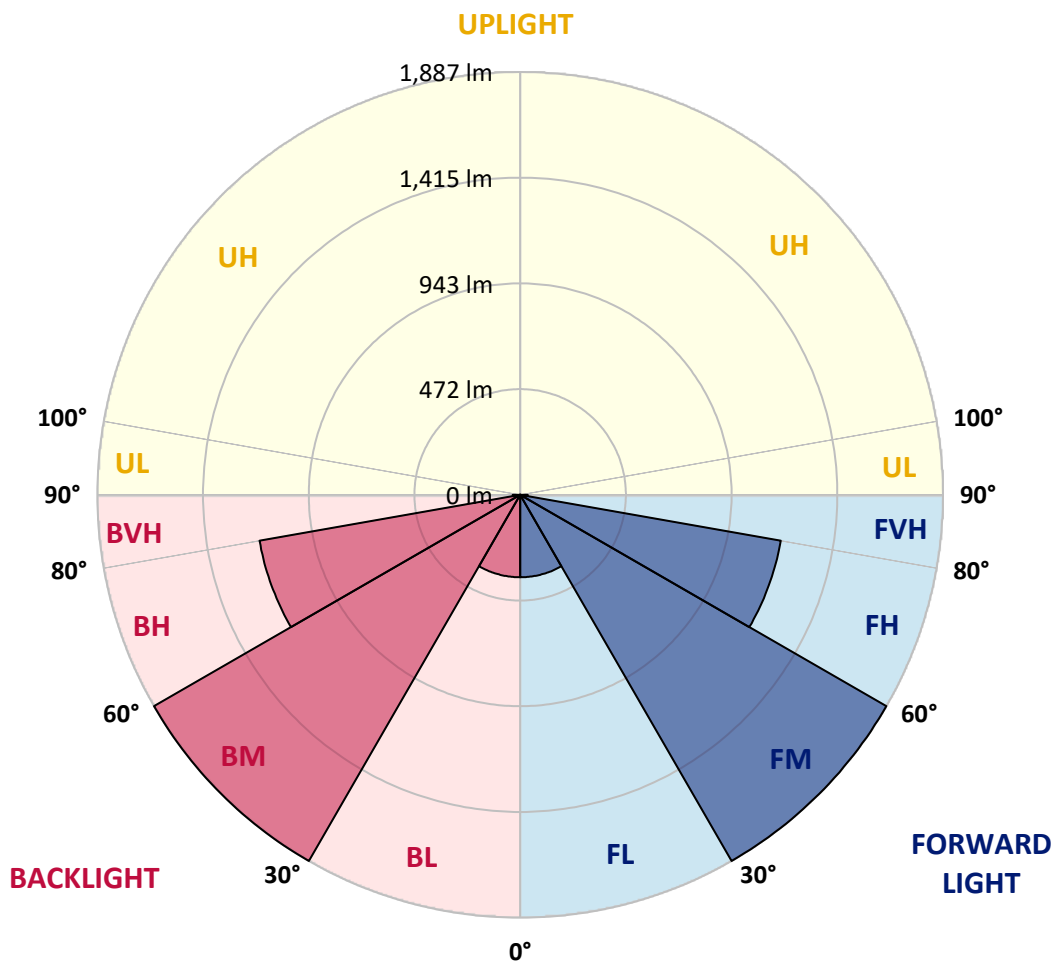
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	367.7	5.3			
FM	(30°-60°)	1886.5	27.2			
FH	(60°-80°)	1180.7	17.0			G1/1800
FVH	(80°-90°)	33.4	0.5			G1/100
BL	(0°-30°)	367.7	5.3	B1/500		
BM	(30°-60°)	1886.5	27.2	B2/2500		
BH	(60°-80°)	1180.7	17.0	B3/2500		G1/1800
BVH	(80°-90°)	33.4	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°	772.4	772.4	772.4	772.4	772.4	772.4	772.4	772.4	772.4	772.4	772.4
2.5°	777.2	776.8	777.2	775.9	776.4	775.9	775.9	774.2	774.2	773.4	772.0
5°	768.5	769.5	769.5	769.5	770.7	770.7	772.4	772.9	774.2	775.5	776.4
7.5°	754.2	754.6	756.0	756.8	759.4	762.9	766.4	770.3	773.8	778.2	782.9
10°	742.0	742.9	745.1	747.3	752.1	756.4	762.5	768.5	774.7	782.0	789.4
12.5°	735.5	736.8	740.3	743.8	751.2	756.8	765.1	774.7	782.9	789.8	798.1
15°	736.4	736.8	741.6	746.3	756.8	764.7	776.4	787.7	797.7	805.5	815.1
17.5°	749.0	749.8	754.6	761.6	771.6	781.6	794.2	806.0	819.4	828.5	839.8
20°	773.8	775.1	780.3	787.7	798.5	808.9	822.0	834.2	848.1	859.0	870.2
22.5°	806.0	808.1	813.8	822.9	833.7	846.4	859.8	872.5	885.5	896.3	905.9
25°	848.9	851.6	857.6	866.7	877.7	891.1	905.0	918.1	931.6	939.8	947.7
27.5°	906.7	911.1	917.7	925.1	934.6	949.0	962.0	972.8	985.9	995.0	1000.2
30°	984.6	990.7	995.9	1003.7	1010.7	1025.9	1036.4	1045.0	1055.0	1060.2	1061.5
32.5°	1079.8	1085.5	1090.7	1096.3	1105.9	1119.8	1129.7	1134.6	1139.8	1139.0	1134.1
35°	1187.1	1191.5	1194.6	1204.5	1220.2	1229.3	1236.7	1238.5	1239.3	1230.2	1221.1
37.5°	1300.2	1305.4	1308.0	1323.7	1338.4	1348.9	1352.3	1356.2	1353.7	1338.4	1322.0
40°	1422.3	1428.0	1435.8	1449.3	1466.7	1476.6	1481.0	1480.6	1478.4	1460.6	1433.7
42.5°	1542.3	1549.3	1555.8	1579.2	1593.7	1610.5	1612.8	1612.3	1607.6	1587.1	1555.8
45°	1644.0	1652.3	1665.8	1691.9	1714.9	1735.3	1743.6	1746.6	1741.9	1720.1	1684.5
47.5°	1728.0	1733.6	1750.6	1782.3	1811.9	1841.8	1858.3	1870.1	1869.6	1854.0	1816.1
50°	1785.4	1791.8	1812.7	1848.4	1885.3	1920.5	1953.1	1979.6	1992.2	1980.9	1945.8
52.5°	1801.8	1810.1	1837.5	1880.1	1923.1	1970.5	2019.2	2066.2	2094.4	2101.3	2073.9
55°	1732.3	1741.4	1781.4	1840.5	1911.4	1981.4	2055.2	2122.2	2180.4	2207.4	2196.6
57.5°	1529.7	1536.3	1587.1	1663.6	1764.9	1887.9	2012.2	2134.8	2234.8	2304.8	2317.0
60°	1209.7	1218.0	1273.7	1354.5	1469.7	1625.4	1799.3	2000.1	2196.1	2356.5	2436.1
62.5°	816.4	822.0	875.4	949.4	1075.4	1225.4	1419.3	1673.5	1953.1	2239.5	2463.9
65°	428.6	428.6	464.7	516.4	616.8	751.2	949.8	1210.7	1543.2	1900.9	2276.1
67.5°	248.7	248.2	256.5	268.2	299.9	354.2	463.8	655.5	970.3	1386.7	1813.6
70°	205.2	203.9	202.5	202.5	207.4	215.6	236.5	289.1	423.0	715.0	1115.8
71°	196.1	195.2	191.7	190.4	192.6	196.9	206.0	230.4	300.3	487.7	833.3
72.5°	185.2	183.0	177.8	175.6	176.0	177.8	180.4	190.0	211.2	277.3	475.2
75°	168.7	163.5	156.9	153.9	152.6	152.1	152.1	154.8	159.6	167.4	194.8
77.5°	149.6	142.2	135.2	132.2	130.0	128.7	127.8	126.0	125.2	128.7	138.7
80°	126.5	118.7	113.0	111.3	110.0	107.4	103.9	100.5	98.2	99.9	106.1
82.5°	97.8	90.0	90.8	91.2	89.1	84.8	81.3	77.3	73.4	72.6	75.6
85°	77.8	73.9	71.3	76.9	72.1	66.9	62.2	55.6	46.5	38.3	41.7
87.5°	33.5	33.9	48.7	73.4	64.3	51.8	43.1	34.8	22.2	16.5	17.0
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°	772.4	772.4	772.4	772.4	772.4	772.4	772.4	772.4
2.5°	771.6	771.6	770.3	769.5	769.5	769.5	768.5	769.0
5°	776.8	777.6	778.6	778.2	779.4	780.7	780.3	779.9
7.5°	785.5	788.1	790.7	792.1	793.8	795.5	796.0	794.6
10°	794.2	799.4	803.3	806.8	808.9	810.7	812.0	811.6
12.5°	805.1	812.4	819.4	826.3	831.1	833.7	836.4	835.4
15°	822.9	831.1	839.8	848.9	856.3	860.3	864.2	863.3
17.5°	847.2	854.6	861.5	870.7	879.8	884.1	888.5	888.1
20°	877.7	883.3	887.2	892.4	901.1	905.9	909.8	908.5
22.5°	912.5	914.2	914.6	916.4	923.3	928.9	934.2	935.5
25°	950.2	949.0	946.3	945.0	949.8	955.9	962.4	964.1
27.5°	997.2	992.9	986.3	981.1	982.4	990.2	997.7	999.4
30°	1056.3	1046.3	1032.4	1022.4	1020.7	1028.9	1036.8	1039.3
32.5°	1123.7	1110.2	1091.1	1075.8	1069.4	1076.8	1083.7	1087.6
35°	1203.7	1188.9	1165.9	1146.3	1135.9	1140.7	1152.9	1157.2
37.5°	1298.4	1278.0	1252.4	1227.5	1210.3	1211.1	1224.2	1229.3
40°	1403.2	1373.6	1341.1	1310.2	1284.9	1283.2	1295.0	1298.8
42.5°	1512.3	1474.5	1436.2	1395.8	1364.5	1358.9	1374.1	1374.5
45°	1629.7	1581.0	1533.6	1486.7	1454.0	1444.1	1458.8	1460.6
47.5°	1754.9	1694.0	1637.9	1587.1	1551.9	1536.3	1550.6	1553.1
50°	1885.3	1822.3	1757.0	1700.6	1659.2	1640.1	1657.1	1658.8
52.5°	2014.4	1954.9	1890.1	1825.4	1775.3	1753.5	1773.6	1779.6
55°	2144.4	2087.0	2026.2	1961.4	1898.3	1879.2	1900.9	1907.5
57.5°	2279.5	2224.4	2169.2	2103.9	2042.6	2013.6	2037.0	2046.1
60°	2428.7	2380.0	2327.8	2262.2	2201.8	2167.8	2187.9	2198.3
62.5°	2575.2	2565.2	2517.8	2449.6	2373.0	2339.1	2356.1	2363.4
65°	2587.3	2749.5	2747.3	2679.5	2572.5	2515.6	2520.3	2523.8
67.5°	2258.3	2630.4	2868.1	2889.4	2770.4	2681.3	2670.8	2673.0
70°	1598.9	2109.6	2614.3	2945.5	2992.4	2923.4	2900.8	2904.3
71°	1281.0	1810.1	2365.7	2811.2	2989.0	2969.0	2956.4	2965.5
72.5°	817.6	1333.6	1874.5	2407.4	2748.6	2846.5	2860.8	2866.4
75°	296.9	573.8	971.1	1391.5	1763.6	2019.6	2160.5	2171.7
77.5°	159.6	205.6	317.7	474.6	596.4	661.6	669.4	672.5
80°	117.3	136.1	155.6	177.8	191.7	194.4	189.6	179.5
82.5°	83.1	93.9	101.7	109.6	115.2	110.4	91.8	70.0
85°	48.3	53.0	57.4	61.3	62.2	58.7	38.7	31.7
87.5°	19.1	20.9	20.5	23.0	22.2	20.5	15.2	13.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)