

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: P198859

Luminaire Tested: **XNV2-AF-02-LED-U-SL2-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24257)
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-SL2-7050-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7789 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Semi-Cutoff
BUG Rating: B1 - U0 - G2

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

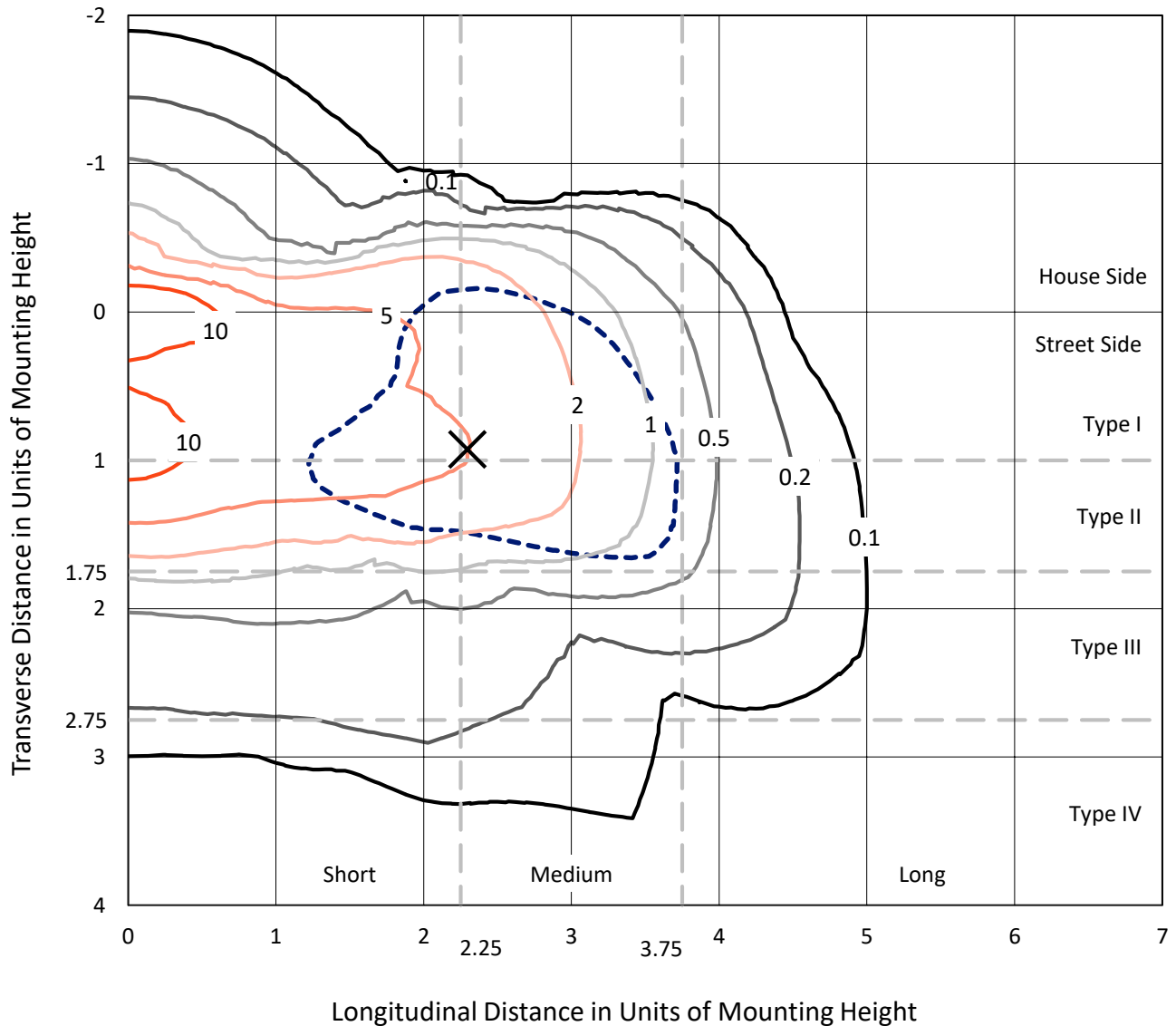


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

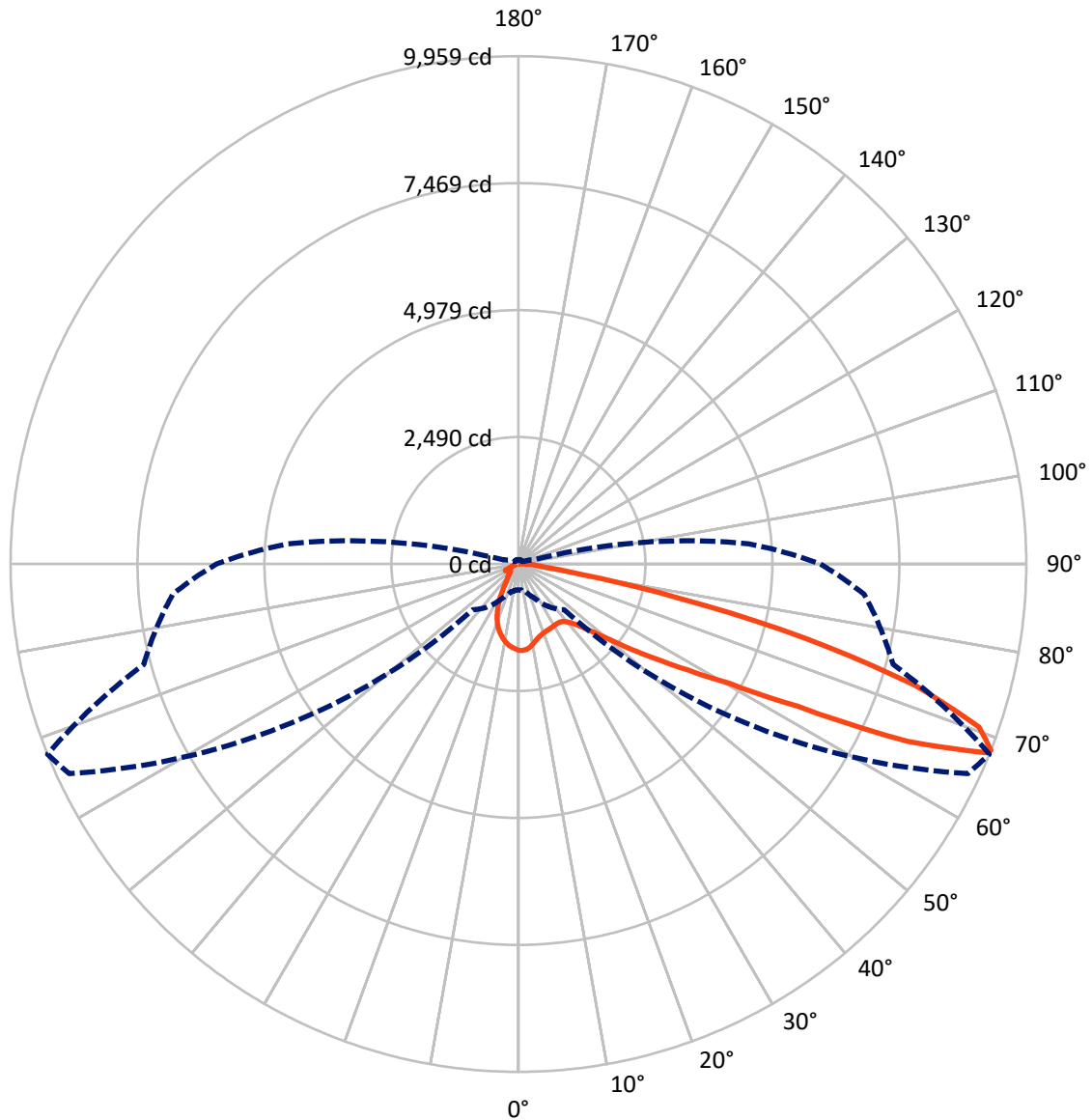


Based on 10 foot mounting height. Maximum calculated value = 16.9 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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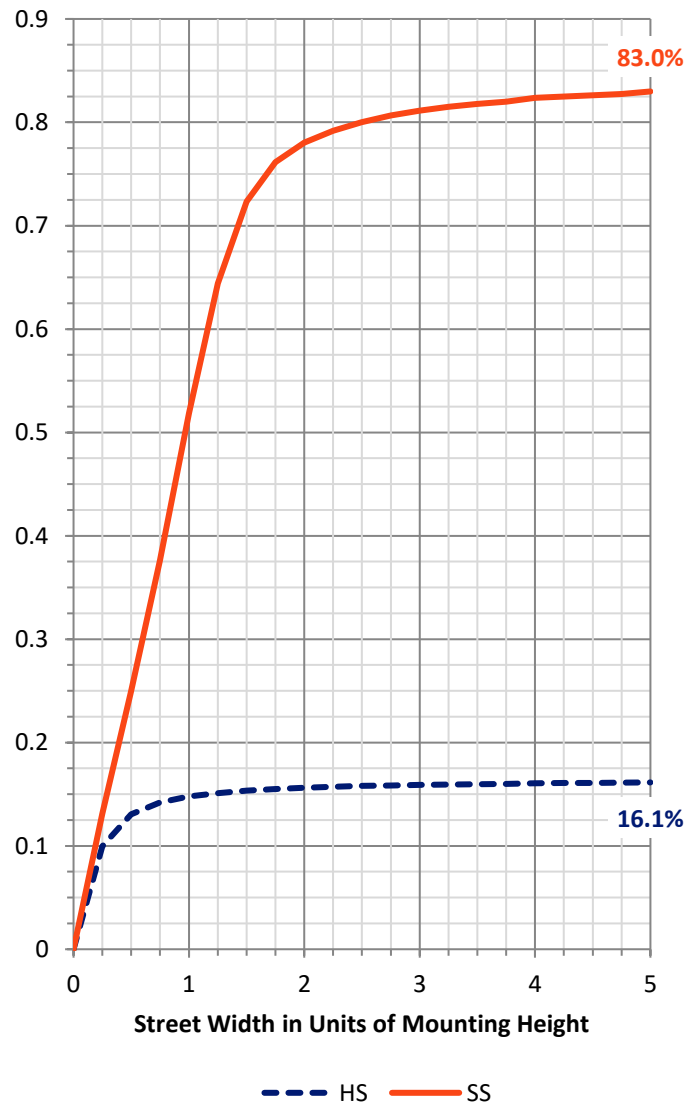
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1274.3	0.0	1274.3
	% Fixture	16.4	0.0	16.4
Street Side	Lumens	6514.7	0.0	6514.7
	% Fixture	83.6	0.0	83.6
Total	Lumens	7789.0	0.0	7789.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.2	1.9
10°-20°	336.8	4.3
20°-30°	455.5	5.8
30°-40°	642.3	8.2
40°-50°	1056.1	13.6
50°-60°	1637.1	21.0
60°-70°	2122.6	27.3
70°-80°	1218.1	15.6
80°-90°	175.3	2.3
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°	7789.0	100.0
0°-180°	7789.0	100.0

Coefficient of Utilization



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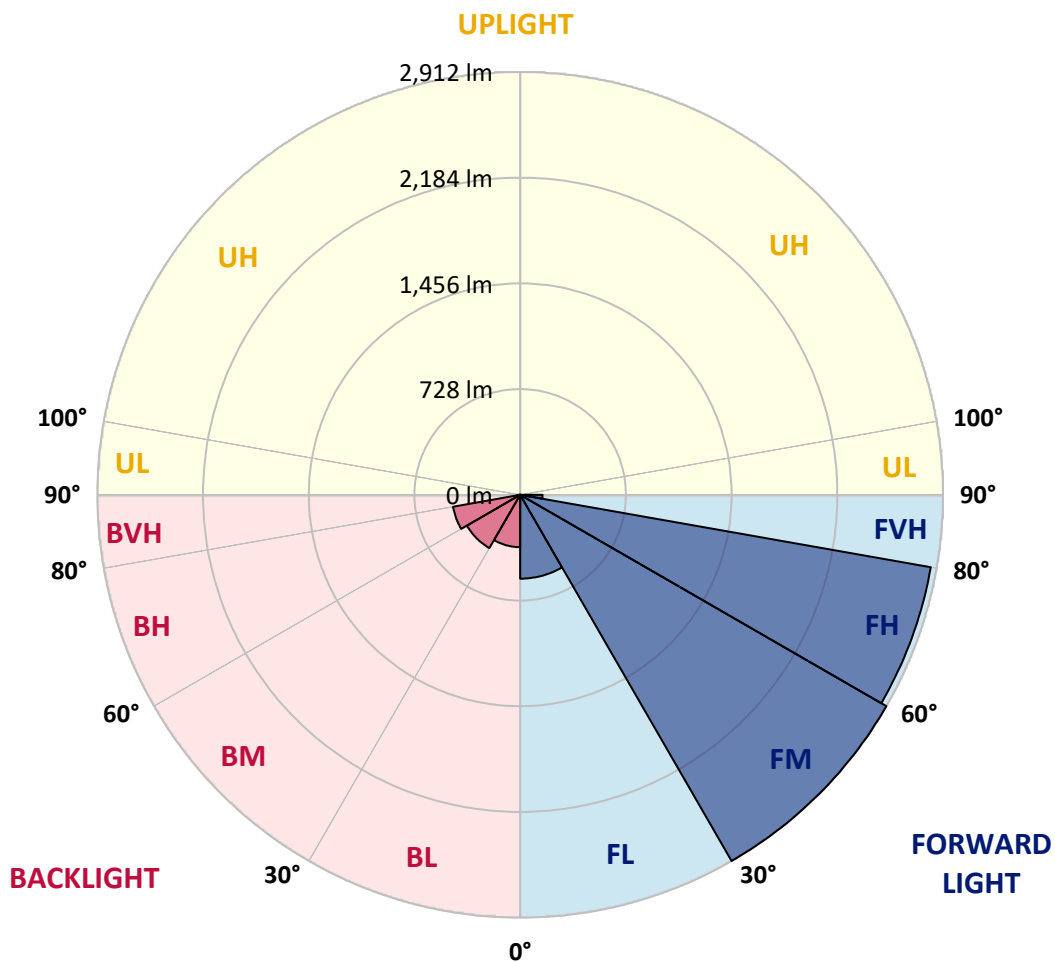
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	577.3	7.4			
FM (30°-60°)	2911.7	37.4			
FH (60°-80°)	2871.4	36.9			G2/5000
FVH (80°-90°)	154.4	2.0			G2/225
BL (0°-30°)	360.3	4.6	B1/500		
BM (30°-60°)	423.8	5.4	B1/1000		
BH (60°-80°)	469.3	6.0	B1/500		G1/500
BVH (80°-90°)	20.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1694.8	1694.8	1694.8	1694.8	1694.8	1694.8	1694.8	1694.8	1694.8	1694.8	1694.8
2.5°	1649.5	1662.8	1662.8	1672.4	1681.1	1688.2	1694.3	1694.3	1694.3	1690.2	1686.7
5°	1476.0	1493.8	1496.4	1520.8	1552.9	1592.0	1635.8	1674.5	1682.1	1696.3	1701.9
7.5°	1355.4	1361.0	1370.7	1387.5	1420.1	1468.4	1537.1	1623.6	1644.4	1689.2	1712.6
10°	1270.0	1274.5	1282.7	1299.5	1329.0	1372.7	1440.4	1552.9	1587.5	1666.8	1713.1
12.5°	1207.4	1210.9	1218.6	1233.8	1263.9	1303.0	1372.2	1489.3	1532.0	1644.4	1720.3
15°	1158.5	1164.6	1170.8	1185.5	1216.0	1253.7	1323.9	1443.0	1489.3	1626.6	1733.5
17.5°	1139.2	1142.3	1143.3	1150.9	1178.4	1216.5	1286.8	1410.4	1458.2	1612.4	1743.7
20°	1151.4	1151.9	1141.7	1136.7	1152.4	1187.5	1255.7	1386.0	1434.8	1599.7	1747.7
22.5°	1204.8	1204.8	1178.4	1156.0	1145.3	1167.2	1234.9	1369.2	1422.1	1590.0	1747.7
25°	1306.6	1302.0	1260.8	1216.5	1169.2	1160.1	1221.6	1358.5	1412.4	1584.9	1741.1
27.5°	1440.4	1436.3	1383.9	1318.3	1232.8	1175.3	1217.1	1349.8	1402.8	1577.3	1726.9
30°	1603.2	1599.7	1540.1	1454.2	1328.0	1223.7	1227.7	1343.7	1395.1	1564.6	1703.0
32.5°	1765.5	1763.5	1716.2	1628.2	1459.2	1305.6	1255.7	1342.7	1391.1	1549.3	1674.0
35°	1928.9	1928.9	1899.9	1825.6	1635.8	1428.7	1314.2	1361.6	1398.7	1541.2	1649.0
37.5°	2170.0	2160.4	2106.4	2029.6	1858.1	1588.5	1408.9	1401.2	1428.2	1554.9	1640.9
40°	2543.5	2515.5	2380.7	2251.4	2100.8	1793.0	1547.3	1478.1	1494.3	1601.7	1660.2
42.5°	2934.3	2890.0	2711.4	2504.8	2351.7	2045.4	1728.9	1602.7	1602.2	1692.3	1721.8
45°	3269.6	3246.7	3053.3	2791.3	2638.1	2329.3	1958.4	1787.9	1769.6	1832.7	1840.3
47.5°	3464.4	3449.2	3332.6	3094.5	2978.0	2664.6	2249.4	2044.9	2010.3	2047.9	2036.2
50°	3410.5	3425.2	3391.7	3270.1	3343.3	3135.7	2620.3	2397.0	2331.3	2369.0	2340.5
52.5°	3126.6	3166.3	3196.3	3219.7	3553.5	3766.1	3086.4	2836.6	2782.1	2775.5	2748.0
55°	2615.2	2678.3	2773.0	2944.9	3497.0	4272.4	3900.5	3368.3	3288.9	3247.2	3257.9
57.5°	1779.8	1875.4	2079.5	2406.6	3203.4	4488.1	5104.3	4055.1	3920.8	3772.3	3806.9
60°	980.5	1060.3	1303.0	1632.7	2533.3	4456.1	6171.3	5171.5	4748.6	4354.8	4426.1
62.5°	634.5	651.8	832.4	1115.3	1554.9	3934.1	6764.0	7037.2	6141.2	5123.1	5223.4
65°	509.8	522.0	610.6	899.6	1083.2	2530.8	6790.5	8972.7	8382.0	6167.2	6170.2
67.5°	498.1	503.7	555.1	756.6	1016.1	1377.8	5869.5	9735.9	9872.8	7399.5	6803.7
68°	505.2	511.9	563.8	733.2	1015.6	1270.0	5424.8	9724.2	9958.8	7605.6	6803.7
70°	445.7	453.9	574.9	758.6	972.3	1091.9	3714.8	9207.8	9585.3	8079.3	6455.7
72.5°	233.0	226.4	284.4	598.9	1094.4	1137.7	1962.4	7692.6	8133.2	7482.4	5577.5
75°	181.6	165.4	159.3	236.6	962.7	1179.9	1139.7	5467.6	5800.3	5393.8	3728.0
77.5°	171.0	151.1	139.4	139.9	423.8	1227.7	921.9	3217.7	3217.7	2573.0	1189.6
80°	137.4	119.1	111.4	127.2	204.5	1131.6	962.1	1466.4	1250.6	665.0	327.7
82.5°	90.6	80.9	81.4	103.3	155.2	755.6	1114.3	724.0	543.9	294.6	192.8
85°	57.5	49.4	55.0	72.2	116.0	336.8	1103.1	503.2	360.2	165.4	96.2
87.5°	29.0	22.4	27.5	37.7	70.7	96.7	908.2	449.3	267.1	68.7	52.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1694.8	1694.8	1694.8	1694.8	1694.8	1694.8	1694.8	1694.8	1694.8	1694.8	1694.8
2.5°	1686.7	1675.5	1669.9	1660.7	1649.5	1638.3	1630.7	1627.1	1625.1	1626.1	1625.6
5°	1698.9	1684.1	1660.2	1626.1	1591.0	1553.9	1525.4	1503.5	1489.8	1485.7	1484.7
7.5°	1708.0	1686.7	1641.9	1579.8	1519.8	1454.7	1399.2	1354.9	1324.9	1311.2	1310.7
10°	1706.5	1679.0	1608.3	1516.7	1428.7	1333.1	1246.1	1171.8	1117.8	1091.9	1090.9
12.5°	1708.0	1670.4	1567.1	1443.0	1316.8	1179.9	1050.7	935.2	854.8	816.6	815.1
15°	1714.2	1661.2	1524.9	1360.5	1186.0	992.7	808.0	663.0	589.7	564.8	564.8
17.5°	1713.6	1646.0	1476.0	1264.9	1030.8	771.9	551.5	462.0	454.9	477.8	481.3
20°	1703.5	1621.5	1412.9	1151.4	848.7	534.2	374.0	361.2	418.2	481.3	488.4
22.5°	1687.7	1590.0	1340.2	1019.6	636.5	348.0	288.5	307.8	385.2	463.5	474.7
25°	1665.8	1551.8	1256.7	866.5	423.3	250.3	240.7	264.6	319.0	371.4	379.6
27.5°	1633.8	1503.5	1165.7	700.6	270.2	206.1	209.6	226.4	249.8	272.2	276.8
30°	1593.6	1447.0	1066.4	516.9	205.0	184.2	190.3	200.5	210.6	224.9	227.9
32.5°	1552.9	1389.5	963.2	355.1	179.1	172.5	178.6	184.2	192.8	202.5	204.5
35°	1516.2	1336.1	856.8	247.8	167.9	164.9	167.9	171.5	180.1	189.8	190.8
37.5°	1489.8	1292.4	745.9	195.9	161.3	158.2	159.8	161.3	171.5	185.7	187.2
40°	1486.2	1263.4	633.5	176.0	156.2	152.1	151.1	152.1	165.4	181.6	183.2
42.5°	1520.8	1264.9	523.6	167.9	152.1	147.6	143.5	145.5	157.2	169.9	171.0
45°	1602.7	1300.5	428.4	164.3	148.6	145.0	138.9	139.9	145.5	152.1	153.1
47.5°	1747.2	1378.3	355.7	162.3	145.5	142.5	134.8	131.8	132.3	135.8	135.8
50°	1978.2	1508.6	311.4	160.3	143.0	137.4	128.7	122.6	121.1	123.1	123.6
52.5°	2322.7	1732.0	290.0	156.2	138.4	130.8	121.1	115.0	112.4	114.5	114.5
55°	2788.2	2088.6	279.8	150.6	132.8	122.6	114.0	108.9	106.8	108.4	108.4
57.5°	3318.9	2552.1	297.1	143.0	125.7	114.0	107.9	104.3	102.8	104.3	104.8
60°	3949.3	3158.6	416.2	133.3	118.0	106.3	102.8	100.7	99.7	101.3	101.3
62.5°	4787.3	3965.6	644.1	125.7	109.9	99.2	98.2	97.2	96.2	97.7	97.7
65°	5692.0	4699.8	663.0	121.1	102.8	93.1	93.6	93.6	92.6	94.1	94.1
67.5°	5979.9	4636.2	370.4	115.5	94.1	87.0	89.0	89.0	88.5	90.1	89.5
68°	5918.9	4535.5	322.6	114.0	92.6	85.5	87.5	88.0	87.5	89.0	88.5
70°	5464.0	3981.9	212.2	105.3	86.0	80.4	83.4	84.0	83.4	85.5	85.0
72.5°	4510.5	2986.7	156.7	92.1	77.8	73.8	76.8	77.3	77.8	79.9	79.4
75°	2864.6	1649.5	123.6	78.4	69.7	66.1	69.2	70.7	71.7	74.8	73.3
77.5°	784.6	500.7	100.2	66.7	60.0	58.5	60.5	62.6	63.6	67.2	64.6
80°	274.8	221.3	83.4	56.5	49.9	49.4	51.4	53.4	54.4	57.5	54.4
82.5°	166.9	144.5	66.7	44.3	39.2	38.7	41.2	43.2	44.3	44.3	42.2
85°	87.0	76.3	48.8	31.0	27.0	25.4	30.0	32.6	33.1	32.6	31.0
87.5°	48.8	43.2	25.9	14.8	12.2	12.7	15.8	19.3	20.9	20.4	19.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)