

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: NEO-RAY

Report Number: P333031-930

Luminaire Tested: **S124RDIW-S350D1560U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333031-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDIW-S350D1560U930-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1560 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6300.2 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Indirect

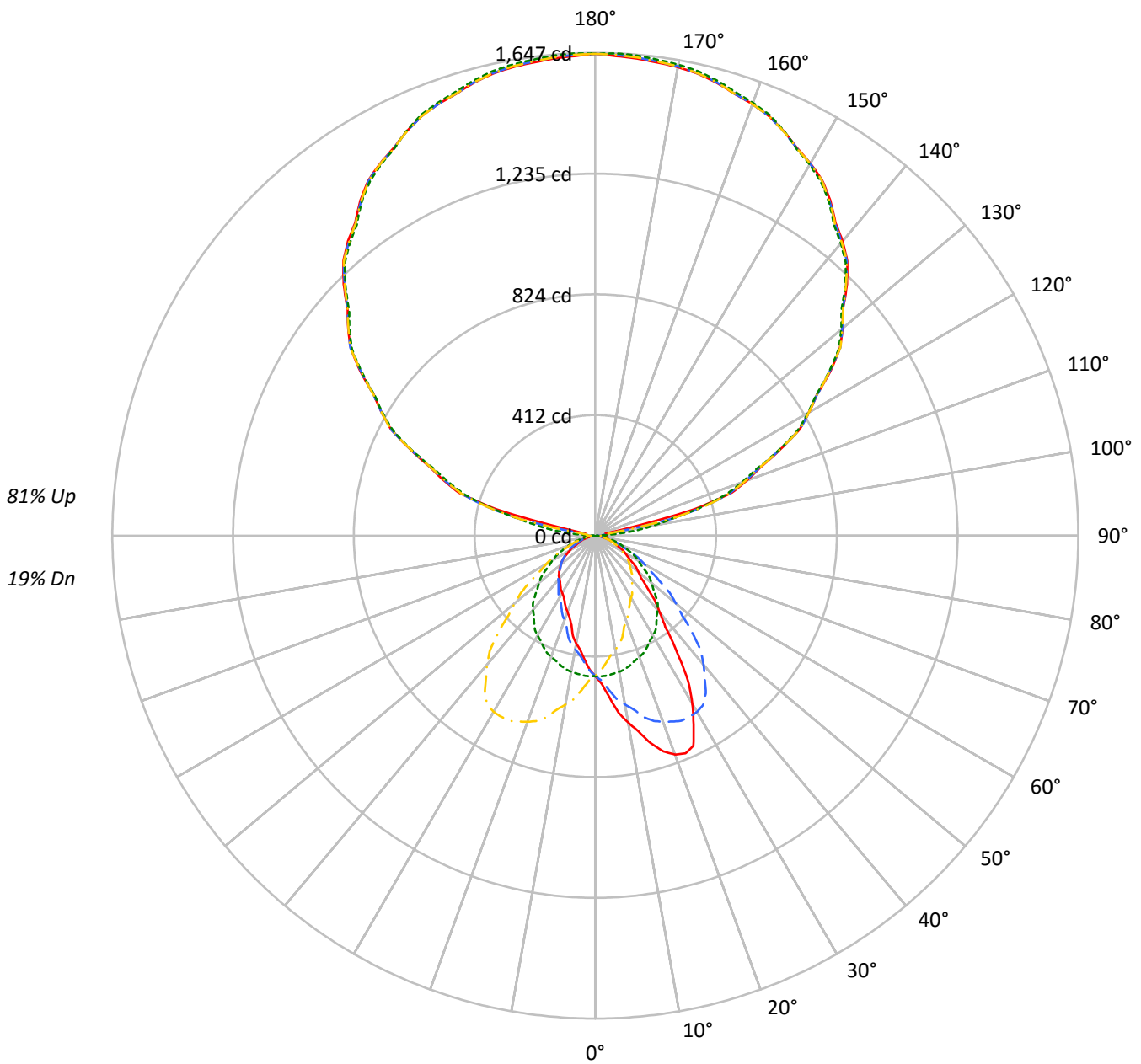
Input Watts (W): 53.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333031-930

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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - · - 90°-270° - · - 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28	19
1	91	87	83	80	80	77	74	71	58	56	54	41	40	39	25	24	24	17
2	83	76	70	66	73	67	63	59	51	48	45	36	34	32	22	21	20	14
3	76	67	60	55	67	59	54	49	45	41	38	32	30	28	20	18	17	12
4	69	59	52	46	61	53	46	42	40	36	32	28	26	24	18	16	15	11
5	63	53	45	39	56	47	40	36	36	31	28	25	23	20	16	14	13	9
6	58	47	39	34	51	42	35	31	32	28	24	23	20	18	14	13	12	8
7	54	42	35	30	47	38	31	27	29	24	21	21	18	16	13	12	10	7
8	50	38	31	26	44	34	28	23	26	22	19	19	16	14	12	10	9	7
9	46	35	28	23	41	31	25	21	24	20	17	17	14	12	11	10	8	6
10	43	32	25	20	38	28	22	18	22	18	15	16	13	11	10	9	8	5

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3866	3866	3866	3866
5°	4485	3878	3428	3878
10°	5305	3861	3059	3861
15°	6128	3825	2629	3825
20°	6823	3776	2377	3776
25°	7044	3728	2207	3728
30°	6166	3669	2105	3669
35°	4800	3582	2042	3582
40°	3599	3483	2009	3483
45°	2842	3323	1991	3323
50°	2399	3141	1934	3141
55°	2090	2939	1830	2939
60°	1881	2729	1621	2729
65°	1658	2502	1394	2502
70°	1494	2268	1256	2268
75°	1251	2009	1070	2009
80°	1055	1715	1004	1715
85°	889	1343	889	1343



TEST NUMBER: P333031-930

CATALOG NUMBER: S124RDIW-S350D1560U930-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.4	0.7
10°-20°	140.0	2.2
20°-30°	218.9	3.5
30°-40°	243.4	3.9
40°-50°	215.9	3.4
50°-60°	168.3	2.7
60°-70°	110.2	1.7
70°-80°	54.2	0.9
80°-90°	18.1	0.3
90°-100°	56.2	0.9
100°-110°	358.5	5.7
110°-120°	685.8	10.9
120°-130°	870.5	13.8
130°-140°	931.4	14.8
140°-150°	871.0	13.8
150°-160°	702.4	11.1
160°-170°	453.0	7.2
170°-180°	156.1	2.5
0°-30°	405.3	6.4
0°-40°	648.7	10.3
0°-60°	1032.9	16.4
0°-90°	1215.3	19.3
90°-120°	1100.5	17.5
90°-150°	3773.4	59.9
90°-180°	5085.0	80.7
0°-180°	6300.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	479	479	479	479	479	
5°	553	478	423	478	553	56
15°	733	458	314	458	733	208
25°	791	418	248	418	791	351
35°	487	364	207	364	487	305
45°	249	291	174	291	249	197
55°	148	209	130	209	148	135
65°	87	131	73	131	87	87
75°	40	64	34	64	40	44
85°	10	14	10	14	10	12
90°	37	4	37	4	37	16
95°	36	68	36	68	36	28
105°	350	370	350	370	350	306
115°	696	691	696	691	696	689
125°	979	971	979	971	979	872
135°	1214	1205	1214	1205	1214	934
145°	1397	1389	1397	1389	1397	873
155°	1522	1523	1522	1523	1522	702
165°	1600	1607	1600	1607	1600	452
175°	1634	1644	1634	1644	1634	156
180°	1644	1644	1644	1644	1644	



TEST NUMBER: P333031-930

CATALOG NUMBER: S124RDIW-S350D1560U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9
2.5°	505.2	506.5	505.2	505.0	503.4	503.0	502.4	500.3	496.7	494.5	495.0
5°	553.4	558.2	555.5	555.1	550.9	546.7	544.0	537.8	531.2	526.8	523.1
7.5°	609.2	612.0	610.3	607.6	600.7	596.8	590.5	582.4	570.6	561.7	553.4
10°	647.2	649.5	648.7	643.7	638.7	628.4	622.6	611.3	596.4	584.7	573.6
12.5°	684.5	687.0	680.2	680.4	670.9	662.8	653.7	639.4	622.2	607.1	593.3
15°	733.2	730.1	730.1	726.3	715.7	704.5	695.0	680.0	658.4	640.3	621.1
17.5°	771.4	772.4	770.9	761.7	753.4	741.8	724.5	706.9	686.9	662.5	643.0
20°	794.2	794.2	792.5	786.3	775.5	763.1	744.4	725.3	699.9	675.3	653.4
22.5°	803.5	804.0	802.0	797.0	787.3	775.2	759.2	739.8	713.5	686.0	658.8
25°	790.8	794.4	794.8	793.4	790.5	783.2	769.5	749.7	726.1	696.2	666.8
27.5°	725.9	730.6	734.7	741.4	750.2	754.8	755.5	745.3	724.8	696.0	666.5
30°	661.5	665.3	677.8	694.2	706.9	718.5	728.6	731.3	719.7	693.9	662.8
32.5°	589.8	595.1	607.6	625.3	646.5	666.1	688.6	700.1	699.8	684.3	655.6
35°	487.0	490.9	502.5	521.0	546.4	575.6	611.3	639.0	657.9	656.6	639.0
37.5°	392.8	397.1	408.8	424.2	448.9	484.9	519.5	557.8	592.7	612.4	606.5
40°	341.5	341.7	353.1	368.9	392.1	423.5	461.1	503.6	542.6	574.5	580.6
42.5°	301.1	301.1	308.7	325.7	342.3	371.9	407.9	450.0	495.7	532.5	548.8
45°	248.9	250.6	256.8	267.0	280.1	305.2	334.0	373.2	424.3	467.9	495.1
47.5°	210.8	213.4	217.3	225.6	236.0	252.7	276.5	311.8	353.4	401.3	440.0
50°	191.0	191.4	196.4	201.1	210.1	223.5	244.3	273.6	311.9	357.9	401.0
52.5°	174.1	174.0	177.0	182.9	190.2	200.6	217.4	244.1	278.0	319.4	363.8
55°	148.5	149.5	151.9	156.5	162.1	169.4	182.7	202.8	229.4	264.7	305.1
57.5°	129.2	129.7	131.5	133.5	138.6	144.0	153.9	167.9	190.3	219.2	256.8
60°	116.5	116.8	117.3	120.2	124.3	129.3	136.1	147.8	166.7	193.1	222.9
62.5°	104.2	104.5	105.4	107.5	110.7	114.1	121.2	130.7	146.3	168.9	195.7
65°	86.8	87.0	88.4	89.1	91.6	94.7	100.0	106.3	117.2	136.1	156.3
67.5°	72.6	72.6	72.6	73.7	75.4	77.5	80.6	85.7	93.8	105.4	123.3
70°	63.3	63.3	63.7	64.2	65.2	66.9	68.7	72.6	78.5	88.0	101.7
72.5°	54.6	54.8	55.2	55.3	55.8	57.2	58.5	61.0	65.4	72.6	83.6
75°	40.1	40.7	41.7	42.5	43.5	43.2	44.6	46.1	47.5	51.7	58.0
77.5°	29.8	29.6	29.7	30.3	30.4	30.7	31.6	32.8	33.8	35.8	38.1
80°	22.7	22.7	23.3	23.6	23.3	23.6	24.5	25.1	25.4	26.3	28.4
82.5°	17.2	17.5	17.4	17.5	17.6	17.9	18.7	18.8	19.2	19.5	20.3
85°	9.6	9.9	10.0	9.6	9.6	9.6	10.0	10.2	10.6	10.4	10.8
87.5°	10.8	10.5	10.5	10.4	10.5	10.1	9.9	9.9	9.3	9.1	8.6
90°	36.9	36.4	35.8	35.2	34.7	33.6	32.0	30.3	28.7	27.1	24.9
92.5°	33.9	33.8	33.8	33.6	33.5	32.6	31.0	29.4	27.7	26.1	23.9
95°	35.6	35.4	35.1	34.8	34.6	33.6	32.0	30.3	28.7	27.1	26.7
97.5°	34.4	34.2	33.9	33.6	33.3	33.1	32.9	32.8	32.6	32.4	62.9
100°	34.4	34.2	33.9	33.6	33.3	35.5	40.2	44.8	49.5	54.1	91.8
102.5°	35.4	35.4	35.3	35.2	35.2	60.3	110.3	160.5	210.5	260.7	265.5
105°	350.4	360.3	370.1	379.9	389.7	393.5	391.0	388.5	386.0	383.6	382.2
107.5°	488.4	487.3	486.2	485.3	484.2	483.1	481.9	480.7	479.5	478.3	476.4
110°	548.4	547.6	546.7	545.9	545.1	544.4	543.9	543.3	542.7	542.2	540.5



TEST NUMBER: P333031-930

CATALOG NUMBER: S124RDIW-S350D1560U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	608.4	607.3	606.3	605.3	604.2	603.7	603.8	604.0	604.1	604.2	603.4
115°	695.9	695.9	695.9	695.9	695.9	695.6	695.0	694.6	694.0	693.4	693.7
117.5°	784.9	785.1	785.1	785.2	785.4	785.5	785.5	785.7	785.8	785.9	785.3
120°	841.0	841.6	842.0	842.6	843.2	843.2	842.6	842.0	841.6	841.0	841.2
122.5°	896.1	896.6	897.2	897.7	898.2	898.4	898.1	897.7	897.4	897.1	896.7
125°	978.7	978.4	978.1	977.9	977.6	977.1	976.2	975.4	974.6	973.8	974.3
127.5°	1051.2	1051.4	1051.7	1051.9	1052.1	1052.3	1052.5	1052.6	1052.8	1053.0	1051.7
130°	1100.4	1100.4	1100.4	1100.4	1100.4	1100.2	1100.0	1099.8	1099.4	1099.2	1098.4
132.5°	1145.7	1145.9	1146.1	1146.3	1146.6	1146.5	1146.2	1146.0	1145.7	1145.4	1144.4
135°	1213.5	1213.0	1212.4	1211.9	1211.4	1210.8	1210.2	1209.7	1209.2	1208.6	1207.5
137.5°	1271.5	1271.7	1271.9	1272.0	1272.2	1272.0	1271.4	1270.8	1270.2	1269.6	1268.4
140°	1311.9	1311.6	1311.3	1311.1	1310.8	1310.3	1309.5	1308.6	1307.8	1306.9	1306.4
142.5°	1345.3	1345.2	1345.2	1345.2	1345.1	1344.8	1344.2	1343.6	1343.0	1342.4	1342.1
145°	1396.7	1396.2	1395.6	1395.1	1394.6	1394.1	1393.8	1393.6	1393.3	1393.0	1393.0
147.5°	1439.2	1439.0	1438.7	1438.4	1438.2	1437.9	1437.7	1437.5	1437.3	1437.0	1437.3
150°	1466.8	1466.6	1466.2	1466.0	1465.7	1465.6	1465.6	1465.6	1465.6	1465.6	1465.8
152.5°	1490.4	1490.5	1490.7	1490.9	1491.0	1490.9	1490.4	1490.0	1489.6	1489.1	1489.6
155°	1522.2	1523.0	1523.8	1524.6	1525.4	1525.3	1524.2	1523.1	1522.0	1520.9	1521.8
157.5°	1548.7	1550.1	1551.5	1553.0	1554.4	1554.4	1553.0	1551.5	1550.1	1548.7	1549.6
160°	1566.4	1568.1	1569.7	1571.3	1573.0	1573.0	1571.3	1569.7	1568.1	1566.4	1566.7
162.5°	1580.1	1582.0	1583.9	1585.8	1587.6	1587.7	1586.1	1584.5	1582.7	1581.1	1581.4
165°	1599.6	1602.1	1604.5	1607.0	1609.4	1609.6	1607.4	1605.2	1603.0	1600.8	1600.8
167.5°	1614.1	1616.8	1619.6	1622.3	1625.1	1625.2	1622.8	1620.4	1618.0	1615.6	1615.8
170°	1622.9	1625.7	1628.4	1631.2	1633.9	1634.2	1632.0	1629.8	1627.6	1625.4	1625.1
172.5°	1627.8	1630.8	1633.8	1636.7	1639.6	1640.1	1637.9	1635.7	1633.5	1631.3	1631.0
175°	1634.0	1637.3	1640.5	1643.8	1647.1	1647.6	1645.1	1642.6	1640.1	1637.7	1637.4
177.5°	1637.9	1640.5	1643.2	1645.8	1648.5	1648.9	1647.1	1645.4	1643.6	1641.8	1641.4
180°	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8



TEST NUMBER: P333031-930

CATALOG NUMBER: S124RDIW-S350D1560U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9
2.5°	493.4	491.3	490.2	487.7	484.8	483.2	481.8	479.8	477.2	474.4	472.5
5°	518.4	513.8	508.0	501.1	495.0	488.9	483.7	478.5	472.5	466.4	460.2
7.5°	544.1	535.1	525.2	513.8	502.8	492.7	483.4	474.6	464.6	455.5	447.4
10°	562.1	549.8	536.1	521.5	507.1	494.6	482.2	471.0	458.7	447.7	438.4
12.5°	576.6	562.1	545.6	527.6	510.1	495.0	480.8	466.2	452.2	440.3	427.9
15°	600.6	580.8	558.6	537.0	514.5	493.7	474.7	457.7	441.6	424.9	413.1
17.5°	617.3	593.6	566.6	540.7	514.0	489.7	467.7	447.4	428.9	411.8	397.8
20°	627.1	601.0	571.1	541.6	511.7	485.7	461.9	439.5	420.4	401.9	387.4
22.5°	632.7	603.8	571.1	540.2	509.2	481.0	455.0	431.7	410.9	392.3	376.3
25°	634.5	603.6	570.2	534.7	500.8	470.8	443.8	418.5	395.3	376.8	359.9
27.5°	631.9	595.6	561.4	525.0	489.9	458.4	430.1	403.5	380.3	360.4	343.0
30°	628.3	589.3	552.6	514.8	479.3	449.0	419.1	393.6	369.5	348.9	331.3
32.5°	620.2	581.6	542.1	503.4	467.4	436.2	407.8	382.2	358.6	337.5	318.8
35°	604.3	565.2	522.4	482.6	447.3	414.8	388.2	363.5	341.0	318.4	298.7
37.5°	583.3	543.4	500.8	457.2	421.8	391.3	366.9	343.6	321.6	301.0	279.2
40°	563.6	527.2	483.1	439.9	403.7	374.1	351.6	330.5	308.3	287.9	266.1
42.5°	539.7	508.7	464.1	420.8	385.0	356.5	335.5	315.0	294.7	274.9	252.2
45°	499.8	476.2	434.6	392.9	356.8	328.6	309.3	291.1	273.5	254.5	233.1
47.5°	454.0	438.1	402.1	359.4	326.0	300.7	282.0	267.2	252.2	233.3	214.5
50°	422.2	412.0	377.2	338.3	306.4	283.1	264.0	250.1	237.5	219.4	202.6
52.5°	388.2	382.8	353.4	316.2	285.4	262.5	246.2	233.7	221.0	205.9	190.3
55°	336.5	339.4	314.5	282.3	253.3	234.1	219.2	208.8	198.0	185.2	173.1
57.5°	283.6	294.2	277.5	249.2	222.1	204.2	193.1	184.3	175.2	164.7	154.3
60°	252.0	260.9	251.4	226.5	202.8	186.2	175.8	169.0	160.0	150.3	142.4
62.5°	221.1	230.6	225.0	204.9	182.9	168.6	159.4	153.1	146.3	137.9	129.7
65°	182.4	188.5	185.8	171.9	156.3	144.1	135.7	131.0	124.8	118.7	111.4
67.5°	139.7	151.6	150.0	142.6	129.1	119.6	114.1	110.0	104.4	99.8	94.8
70°	114.8	125.8	125.6	119.6	112.3	103.5	99.5	96.1	91.1	86.7	82.6
72.5°	94.0	104.0	105.6	100.9	96.0	89.2	85.5	83.2	78.3	75.3	71.9
75°	65.8	73.1	75.1	75.1	72.7	69.3	66.0	64.4	61.0	58.3	56.3
77.5°	43.1	47.8	50.8	51.4	51.9	50.6	47.9	46.9	44.2	43.3	41.4
80°	30.5	33.6	37.0	38.2	39.1	38.8	37.7	36.9	34.3	33.3	32.6
82.5°	21.0	22.7	25.6	28.2	27.9	28.9	27.9	27.3	25.4	25.0	24.3
85°	11.0	11.2	11.6	13.3	14.3	14.7	14.8	14.5	13.9	13.9	12.6
87.5°	8.2	7.7	7.5	7.0	6.5	6.6	6.4	6.0	6.1	6.3	6.4
90°	22.7	20.5	18.3	15.7	12.7	9.7	6.7	3.7	6.7	9.7	12.7
92.5°	21.7	19.5	17.3	16.1	16.0	15.8	15.7	15.5	15.7	15.8	16.0
95°	26.5	26.3	25.9	30.5	39.8	49.1	58.3	67.6	58.3	49.1	39.8
97.5°	93.4	123.9	154.4	166.8	161.0	155.2	149.4	143.6	149.4	155.2	161.0
100°	129.5	167.2	204.9	221.3	216.4	211.5	206.6	201.6	206.6	211.5	216.4
102.5°	270.5	275.4	280.3	281.0	277.4	273.8	270.2	266.5	270.2	273.8	277.4
105°	380.9	379.5	378.1	376.7	375.0	373.3	371.7	370.1	371.7	373.3	375.0
107.5°	474.6	472.7	470.8	469.5	468.7	467.9	467.1	466.2	467.1	467.9	468.7
110°	538.9	537.3	535.7	534.4	533.6	532.8	532.0	531.2	532.0	532.8	533.6



TEST NUMBER: P333031-930

CATALOG NUMBER: S124RDIW-S350D1560U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	602.7	601.9	601.1	600.0	598.5	597.0	595.6	594.1	595.6	597.0	598.5
115°	694.0	694.2	694.6	694.2	693.4	692.6	691.8	691.0	691.8	692.6	693.4
117.5°	784.7	784.1	783.5	782.7	781.5	780.5	779.3	778.3	779.3	780.5	781.5
120°	841.6	841.8	842.0	841.6	840.6	839.5	838.4	837.3	838.4	839.5	840.6
122.5°	896.3	895.9	895.5	895.0	894.3	893.6	893.0	892.3	893.0	893.6	894.3
125°	974.9	975.4	975.9	975.7	974.6	973.5	972.4	971.3	972.4	973.5	974.6
127.5°	1050.4	1049.2	1047.9	1047.2	1046.8	1046.6	1046.4	1046.0	1046.4	1046.6	1046.8
130°	1097.6	1096.7	1095.9	1095.4	1095.1	1094.8	1094.5	1094.3	1094.5	1094.8	1095.1
132.5°	1143.3	1142.3	1141.3	1140.5	1140.0	1139.5	1139.0	1138.5	1139.0	1139.5	1140.0
135°	1206.4	1205.3	1204.2	1203.8	1204.1	1204.4	1204.6	1204.9	1204.6	1204.4	1204.1
137.5°	1267.2	1266.0	1264.8	1264.1	1264.0	1263.9	1263.8	1263.7	1263.8	1263.9	1264.0
140°	1305.9	1305.3	1304.8	1304.2	1303.7	1303.2	1302.6	1302.0	1302.6	1303.2	1303.7
142.5°	1341.7	1341.4	1341.1	1340.4	1339.5	1338.5	1337.4	1336.4	1337.4	1338.5	1339.5
145°	1393.0	1393.0	1393.0	1392.6	1391.8	1391.0	1390.2	1389.4	1390.2	1391.0	1391.8
147.5°	1437.6	1437.9	1438.1	1437.5	1436.0	1434.4	1432.9	1431.4	1432.9	1434.4	1436.0
150°	1466.2	1466.4	1466.6	1466.2	1465.2	1464.0	1463.0	1461.9	1463.0	1464.0	1465.2
152.5°	1490.1	1490.6	1491.2	1490.9	1490.0	1489.2	1488.3	1487.4	1488.3	1489.2	1490.0
155°	1522.6	1523.4	1524.2	1524.4	1524.2	1523.9	1523.6	1523.4	1523.6	1523.9	1524.2
157.5°	1550.5	1551.4	1552.4	1553.0	1553.1	1553.3	1553.5	1553.6	1553.5	1553.3	1553.1
160°	1566.9	1567.2	1567.5	1568.1	1568.9	1569.7	1570.5	1571.3	1570.5	1569.7	1568.9
162.5°	1581.7	1581.9	1582.3	1582.9	1584.0	1584.9	1586.0	1587.1	1586.0	1584.9	1584.0
165°	1600.8	1600.8	1600.8	1601.5	1602.9	1604.3	1605.6	1607.0	1605.6	1604.3	1602.9
167.5°	1615.9	1616.1	1616.2	1617.0	1618.5	1619.8	1621.3	1622.7	1621.3	1619.8	1618.5
170°	1624.9	1624.6	1624.3	1625.0	1626.6	1628.2	1629.9	1631.6	1629.9	1628.2	1626.6
172.5°	1630.8	1630.5	1630.2	1630.9	1632.6	1634.2	1635.8	1637.4	1635.8	1634.2	1632.6
175°	1637.1	1636.9	1636.6	1637.3	1638.9	1640.5	1642.2	1643.8	1642.2	1640.5	1638.9
177.5°	1641.0	1640.5	1640.1	1640.7	1642.2	1643.7	1645.3	1646.8	1645.3	1643.7	1642.2
180°	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8



TEST NUMBER: P333031-930

CATALOG NUMBER: S124RDIW-S350D1560U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9
2.5°	470.3	468.7	466.8	464.4	461.6	459.2	458.0	459.0	459.5	458.2	458.0
5°	455.9	451.1	447.3	441.5	436.8	433.0	430.3	429.1	429.5	426.4	425.7
7.5°	439.9	434.1	427.8	420.9	414.6	408.9	405.9	404.3	401.0	399.6	397.2
10°	429.5	421.8	415.6	407.5	400.1	393.5	390.1	387.4	384.2	382.6	379.4
12.5°	418.9	409.9	403.1	394.7	387.2	379.1	375.9	371.0	365.8	362.6	358.3
15°	403.8	393.1	384.7	374.7	365.8	356.6	348.3	339.0	335.6	328.2	324.0
17.5°	386.3	375.4	365.1	351.6	337.9	326.4	317.6	308.7	303.4	298.7	296.5
20°	374.7	364.7	350.4	334.8	319.5	306.8	299.6	293.8	288.0	284.8	282.5
22.5°	363.8	350.9	334.4	317.5	302.2	292.3	286.3	280.3	275.6	272.5	269.4
25°	345.4	328.6	311.0	291.7	281.4	272.6	266.1	261.2	258.4	254.3	252.7
27.5°	326.5	306.1	286.8	273.9	263.0	255.0	249.3	245.7	242.1	239.5	237.4
30°	312.0	291.4	274.0	261.6	250.6	244.1	239.5	235.2	232.3	230.2	228.7
32.5°	297.7	277.0	262.4	249.2	240.4	234.1	229.1	225.9	223.6	220.9	220.0
35°	276.9	258.5	245.8	233.8	225.0	219.2	215.3	212.1	210.1	209.4	208.8
37.5°	256.9	241.9	228.2	218.4	210.5	205.9	201.4	199.7	198.4	197.1	197.7
40°	244.3	230.2	218.0	207.7	201.2	196.2	193.6	191.6	190.5	190.5	190.5
42.5°	233.3	219.6	207.7	198.4	192.0	187.8	184.7	183.1	182.7	182.5	183.5
45°	216.3	203.6	191.6	183.8	178.5	174.2	172.5	171.1	171.1	171.9	172.1
47.5°	199.4	187.5	177.9	169.3	164.3	161.7	160.1	159.5	159.6	160.3	161.2
50°	189.1	177.3	167.9	160.1	155.6	153.0	151.6	151.2	151.6	151.6	153.0
52.5°	177.8	167.3	158.0	151.5	146.3	143.9	143.2	142.6	142.8	143.5	144.1
55°	161.3	151.9	143.0	136.8	133.0	131.4	129.6	129.9	129.5	129.9	129.9
57.5°	144.7	136.2	128.0	123.1	119.7	117.5	115.6	116.1	115.5	115.4	115.1
60°	134.1	124.8	118.3	113.8	110.0	108.0	106.3	106.7	106.2	105.7	104.9
62.5°	122.5	114.8	108.5	104.3	101.2	99.0	97.2	96.9	95.5	94.2	92.5
65°	105.7	99.4	93.8	89.8	86.8	85.1	83.7	82.6	79.7	76.6	75.1
67.5°	89.4	84.8	79.6	76.1	73.8	71.6	69.0	67.0	64.3	62.6	61.6
70°	78.9	74.5	70.0	66.8	64.2	62.1	59.3	57.9	55.9	55.2	54.2
72.5°	68.9	64.7	60.7	57.6	55.0	53.3	51.0	49.7	48.8	48.5	47.6
75°	53.6	50.4	47.3	44.6	42.5	41.3	40.4	39.4	39.0	37.3	36.3
77.5°	39.1	36.9	35.1	33.1	31.6	30.8	28.9	27.9	27.2	26.4	26.2
80°	30.5	28.9	27.0	25.8	23.7	23.0	22.2	22.0	21.8	21.6	21.4
82.5°	22.9	21.4	19.5	18.8	18.2	17.7	17.3	17.0	16.9	17.0	17.0
85°	11.6	10.8	10.8	10.6	10.4	10.2	10.0	10.0	9.9	10.0	9.9
87.5°	7.0	7.3	7.8	7.9	8.6	9.0	9.1	9.5	9.9	9.9	10.2
90°	15.7	18.3	20.5	22.7	24.9	27.1	28.7	30.3	32.0	33.6	34.7
92.5°	16.1	17.3	19.5	21.7	23.9	26.1	27.7	29.4	31.0	32.6	33.5
95°	30.5	25.9	26.3	26.5	26.7	27.1	28.7	30.3	32.0	33.6	34.6
97.5°	166.8	154.4	123.9	93.4	62.9	32.4	32.6	32.8	32.9	33.1	33.3
100°	221.3	204.9	167.2	129.5	91.8	54.1	49.5	44.8	40.2	35.5	33.3
102.5°	281.0	280.3	275.4	270.5	265.5	260.7	210.5	160.5	110.3	60.3	35.2
105°	376.7	378.1	379.5	380.9	382.2	383.6	386.0	388.5	391.0	393.5	389.7
107.5°	469.5	470.8	472.7	474.6	476.4	478.3	479.5	480.7	481.9	483.1	484.2
110°	534.4	535.7	537.3	538.9	540.5	542.2	542.7	543.3	543.9	544.4	545.1



TEST NUMBER: P333031-930

CATALOG NUMBER: S124RDIW-S350D1560U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	600.0	601.1	601.9	602.7	603.4	604.2	604.1	604.0	603.8	603.7	604.2
115°	694.2	694.6	694.2	694.0	693.7	693.4	694.0	694.6	695.0	695.6	695.9
117.5°	782.7	783.5	784.1	784.7	785.3	785.9	785.8	785.7	785.5	785.5	785.4
120°	841.6	842.0	841.8	841.6	841.2	841.0	841.6	842.0	842.6	843.2	843.2
122.5°	895.0	895.5	895.9	896.3	896.7	897.1	897.4	897.7	898.1	898.4	898.2
125°	975.7	975.9	975.4	974.9	974.3	973.8	974.6	975.4	976.2	977.1	977.6
127.5°	1047.2	1047.9	1049.2	1050.4	1051.7	1053.0	1052.8	1052.6	1052.5	1052.3	1052.1
130°	1095.4	1095.9	1096.7	1097.6	1098.4	1099.2	1099.4	1099.8	1100.0	1100.2	1100.4
132.5°	1140.5	1141.3	1142.3	1143.3	1144.4	1145.4	1145.7	1146.0	1146.2	1146.5	1146.6
135°	1203.8	1204.2	1205.3	1206.4	1207.5	1208.6	1209.2	1209.7	1210.2	1210.8	1211.4
137.5°	1264.1	1264.8	1266.0	1267.2	1268.4	1269.6	1270.2	1270.8	1271.4	1272.0	1272.2
140°	1304.2	1304.8	1305.3	1305.9	1306.4	1306.9	1307.8	1308.6	1309.5	1310.3	1310.8
142.5°	1340.4	1341.1	1341.4	1341.7	1342.1	1342.4	1343.0	1343.6	1344.2	1344.8	1345.1
145°	1392.6	1393.0	1393.0	1393.0	1393.0	1393.0	1393.3	1393.6	1393.8	1394.1	1394.6
147.5°	1437.5	1438.1	1437.9	1437.6	1437.3	1437.0	1437.3	1437.5	1437.7	1437.9	1438.2
150°	1466.2	1466.6	1466.4	1466.2	1465.8	1465.6	1465.6	1465.6	1465.6	1465.6	1465.7
152.5°	1490.9	1491.2	1490.6	1490.1	1489.6	1489.1	1489.6	1490.0	1490.4	1490.9	1491.0
155°	1524.4	1524.2	1523.4	1522.6	1521.8	1520.9	1522.0	1523.1	1524.2	1525.3	1525.4
157.5°	1553.0	1552.4	1551.4	1550.5	1549.6	1548.7	1550.1	1551.5	1553.0	1554.4	1554.4
160°	1568.1	1567.5	1567.2	1566.9	1566.7	1566.4	1568.1	1569.7	1571.3	1573.0	1573.0
162.5°	1582.9	1582.3	1581.9	1581.7	1581.4	1581.1	1582.7	1584.5	1586.1	1587.7	1587.6
165°	1601.5	1600.8	1600.8	1600.8	1600.8	1600.8	1603.0	1605.2	1607.4	1609.6	1609.4
167.5°	1617.0	1616.2	1616.1	1615.9	1615.8	1615.6	1618.0	1620.4	1622.8	1625.2	1625.1
170°	1625.0	1624.3	1624.6	1624.9	1625.1	1625.4	1627.6	1629.8	1632.0	1634.2	1633.9
172.5°	1630.9	1630.2	1630.5	1630.8	1631.0	1631.3	1633.5	1635.7	1637.9	1640.1	1639.6
175°	1637.3	1636.6	1636.9	1637.1	1637.4	1637.7	1640.1	1642.6	1645.1	1647.6	1647.1
177.5°	1640.7	1640.1	1640.5	1641.0	1641.4	1641.8	1643.6	1645.4	1647.1	1648.9	1648.5
180°	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8



TEST NUMBER: P333031-930

CATALOG NUMBER: S124RDIW-S350D1560U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9
2.5°	457.1	457.5	456.4	456.1	456.4	457.5	457.1	458.0	458.2	459.5	459.0
5°	424.1	423.7	422.7	423.0	422.7	423.7	424.1	425.7	426.4	429.5	429.1
7.5°	395.8	394.4	394.8	393.2	394.8	394.4	395.8	397.2	399.6	401.0	404.3
10°	378.5	376.4	374.7	373.2	374.7	376.4	378.5	379.4	382.6	384.2	387.4
12.5°	355.0	353.1	350.8	351.2	350.8	353.1	355.0	358.3	362.6	365.8	371.0
15°	321.5	318.5	314.0	314.5	314.0	318.5	321.5	324.0	328.2	335.6	339.0
17.5°	293.1	293.1	291.0	291.6	291.0	293.1	293.1	296.5	298.7	303.4	308.7
20°	278.4	277.1	277.3	276.7	277.3	277.1	278.4	282.5	284.8	288.0	293.8
22.5°	268.2	266.6	265.2	264.1	265.2	266.6	268.2	269.4	272.5	275.6	280.3
25°	251.0	249.9	248.2	247.8	248.2	249.9	251.0	252.7	254.3	258.4	261.2
27.5°	235.9	235.7	235.0	234.1	235.0	235.7	235.9	237.4	239.5	242.1	245.7
30°	227.1	226.7	226.3	225.8	226.3	226.7	227.1	228.7	230.2	232.3	235.2
32.5°	219.2	219.0	218.6	218.7	218.6	219.0	219.2	220.0	220.9	223.6	225.9
35°	208.0	207.8	207.4	207.2	207.4	207.8	208.0	208.8	209.4	210.1	212.1
37.5°	197.5	198.0	197.8	197.7	197.8	198.0	197.5	197.7	197.1	198.4	199.7
40°	190.3	190.5	190.9	190.6	190.9	190.5	190.3	190.5	190.5	190.5	191.6
42.5°	184.3	184.3	184.8	184.2	184.8	184.3	184.3	183.5	182.5	182.7	183.1
45°	173.5	174.6	174.4	174.4	174.4	174.6	173.5	172.1	171.9	171.1	171.1
47.5°	161.7	162.7	163.0	162.9	163.0	162.7	161.7	161.2	160.3	159.6	159.5
50°	154.0	153.6	154.2	154.0	154.2	153.6	154.0	153.0	151.6	151.6	151.2
52.5°	144.6	144.6	144.6	144.4	144.6	144.6	144.6	144.1	143.5	142.8	142.6
55°	130.0	130.3	129.9	130.0	129.9	130.3	130.0	129.9	129.9	129.5	129.9
57.5°	114.3	113.4	113.7	113.3	113.7	113.4	114.3	115.1	115.4	115.5	116.1
60°	103.1	101.5	101.1	100.4	101.1	101.5	103.1	104.9	105.7	106.2	106.7
62.5°	90.4	89.3	88.0	88.6	88.0	89.3	90.4	92.5	94.2	95.5	96.9
65°	73.5	72.7	72.2	73.0	72.2	72.7	73.5	75.1	76.6	79.7	82.6
67.5°	60.8	60.4	60.4	60.1	60.4	60.4	60.8	61.6	62.6	64.3	67.0
70°	54.2	53.6	53.6	53.2	53.6	53.6	54.2	54.2	55.2	55.9	57.9
72.5°	47.5	46.9	47.0	46.8	47.0	46.9	47.5	47.6	48.5	48.8	49.7
75°	35.1	34.2	34.2	34.3	34.2	34.2	35.1	36.3	37.3	39.0	39.4
77.5°	26.2	26.0	26.3	25.9	26.3	26.0	26.2	26.2	26.4	27.2	27.9
80°	21.4	21.2	21.0	21.6	21.0	21.2	21.4	21.4	21.6	21.8	22.0
82.5°	16.6	16.6	16.6	17.3	16.6	16.6	16.6	17.0	17.0	16.9	17.0
85°	10.0	9.6	10.0	9.6	10.0	9.6	10.0	9.9	10.0	9.9	10.0
87.5°	10.6	10.5	10.5	10.8	10.5	10.5	10.6	10.2	9.9	9.9	9.5
90°	35.2	35.8	36.4	36.9	36.4	35.8	35.2	34.7	33.6	32.0	30.3
92.5°	33.6	33.8	33.8	33.9	33.8	33.8	33.6	33.5	32.6	31.0	29.4
95°	34.8	35.1	35.4	35.6	35.4	35.1	34.8	34.6	33.6	32.0	30.3
97.5°	33.6	33.9	34.2	34.4	34.2	33.9	33.6	33.3	33.1	32.9	32.8
100°	33.6	33.9	34.2	34.4	34.2	33.9	33.6	33.3	35.5	40.2	44.8
102.5°	35.2	35.3	35.4	35.4	35.4	35.3	35.2	35.2	60.3	110.3	160.5
105°	379.9	370.1	360.3	350.4	360.3	370.1	379.9	389.7	393.5	391.0	388.5
107.5°	485.3	486.2	487.3	488.4	487.3	486.2	485.3	484.2	483.1	481.9	480.7
110°	545.9	546.7	547.6	548.4	547.6	546.7	545.9	545.1	544.4	543.9	543.3



TEST NUMBER: P333031-930

CATALOG NUMBER: S124RDIW-S350D1560U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	605.3	606.3	607.3	608.4	607.3	606.3	605.3	604.2	603.7	603.8	604.0
115°	695.9	695.9	695.9	695.9	695.9	695.9	695.9	695.9	695.6	695.0	694.6
117.5°	785.2	785.1	785.1	784.9	785.1	785.1	785.2	785.4	785.5	785.5	785.7
120°	842.6	842.0	841.6	841.0	841.6	842.0	842.6	843.2	843.2	842.6	842.0
122.5°	897.7	897.2	896.6	896.1	896.6	897.2	897.7	898.2	898.4	898.1	897.7
125°	977.9	978.1	978.4	978.7	978.4	978.1	977.9	977.6	977.1	976.2	975.4
127.5°	1051.9	1051.7	1051.4	1051.2	1051.4	1051.7	1051.9	1052.1	1052.3	1052.5	1052.6
130°	1100.4	1100.4	1100.4	1100.4	1100.4	1100.4	1100.4	1100.4	1100.2	1100.0	1099.8
132.5°	1146.3	1146.1	1145.9	1145.7	1145.9	1146.1	1146.3	1146.6	1146.5	1146.2	1146.0
135°	1211.9	1212.4	1213.0	1213.5	1213.0	1212.4	1211.9	1211.4	1210.8	1210.2	1209.7
137.5°	1272.0	1271.9	1271.7	1271.5	1271.7	1271.9	1272.0	1272.2	1272.0	1271.4	1270.8
140°	1311.1	1311.3	1311.6	1311.9	1311.6	1311.3	1311.1	1310.8	1310.3	1309.5	1308.6
142.5°	1345.2	1345.2	1345.2	1345.3	1345.2	1345.2	1345.2	1345.1	1344.8	1344.2	1343.6
145°	1395.1	1395.6	1396.2	1396.7	1396.2	1395.6	1395.1	1394.6	1394.1	1393.8	1393.6
147.5°	1438.4	1438.7	1439.0	1439.2	1439.0	1438.7	1438.4	1438.2	1437.9	1437.7	1437.5
150°	1466.0	1466.2	1466.6	1466.8	1466.6	1466.2	1466.0	1465.7	1465.6	1465.6	1465.6
152.5°	1490.9	1490.7	1490.5	1490.4	1490.5	1490.7	1490.9	1491.0	1490.9	1490.4	1490.0
155°	1524.6	1523.8	1523.0	1522.2	1523.0	1523.8	1524.6	1525.4	1525.3	1524.2	1523.1
157.5°	1553.0	1551.5	1550.1	1548.7	1550.1	1551.5	1553.0	1554.4	1554.4	1553.0	1551.5
160°	1571.3	1569.7	1568.1	1566.4	1568.1	1569.7	1571.3	1573.0	1573.0	1571.3	1569.7
162.5°	1585.8	1583.9	1582.0	1580.1	1582.0	1583.9	1585.8	1587.6	1587.7	1586.1	1584.5
165°	1607.0	1604.5	1602.1	1599.6	1602.1	1604.5	1607.0	1609.4	1609.6	1607.4	1605.2
167.5°	1622.3	1619.6	1616.8	1614.1	1616.8	1619.6	1622.3	1625.1	1625.2	1622.8	1620.4
170°	1631.2	1628.4	1625.7	1622.9	1625.7	1628.4	1631.2	1633.9	1634.2	1632.0	1629.8
172.5°	1636.7	1633.8	1630.8	1627.8	1630.8	1633.8	1636.7	1639.6	1640.1	1637.9	1635.7
175°	1643.8	1640.5	1637.3	1634.0	1637.3	1640.5	1643.8	1647.1	1647.6	1645.1	1642.6
177.5°	1645.8	1643.2	1640.5	1637.9	1640.5	1643.2	1645.8	1648.5	1648.9	1647.1	1645.4
180°	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8



TEST NUMBER: P333031-930

CATALOG NUMBER: S124RDIW-S350D1560U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9
2.5°	458.0	459.2	461.6	464.4	466.8	468.7	470.3	472.5	474.4	477.2	479.8
5°	430.3	433.0	436.8	441.5	447.3	451.1	455.9	460.2	466.4	472.5	478.5
7.5°	405.9	408.9	414.6	420.9	427.8	434.1	439.9	447.4	455.5	464.6	474.6
10°	390.1	393.5	400.1	407.5	415.6	421.8	429.5	438.4	447.7	458.7	471.0
12.5°	375.9	379.1	387.2	394.7	403.1	409.9	418.9	427.9	440.3	452.2	466.2
15°	348.3	356.6	365.8	374.7	384.7	393.1	403.8	413.1	424.9	441.6	457.7
17.5°	317.6	326.4	337.9	351.6	365.1	375.4	386.3	397.8	411.8	428.9	447.4
20°	299.6	306.8	319.5	334.8	350.4	364.7	374.7	387.4	401.9	420.4	439.5
22.5°	286.3	292.3	302.2	317.5	334.4	350.9	363.8	376.3	392.3	410.9	431.7
25°	266.1	272.6	281.4	291.7	311.0	328.6	345.4	359.9	376.8	395.3	418.5
27.5°	249.3	255.0	263.0	273.9	286.8	306.1	326.5	343.0	360.4	380.3	403.5
30°	239.5	244.1	250.6	261.6	274.0	291.4	312.0	331.3	348.9	369.5	393.6
32.5°	229.1	234.1	240.4	249.2	262.4	277.0	297.7	318.8	337.5	358.6	382.2
35°	215.3	219.2	225.0	233.8	245.8	258.5	276.9	298.7	318.4	341.0	363.5
37.5°	201.4	205.9	210.5	218.4	228.2	241.9	256.9	279.2	301.0	321.6	343.6
40°	193.6	196.2	201.2	207.7	218.0	230.2	244.3	266.1	287.9	308.3	330.5
42.5°	184.7	187.8	192.0	198.4	207.7	219.6	233.3	252.2	274.9	294.7	315.0
45°	172.5	174.2	178.5	183.8	191.6	203.6	216.3	233.1	254.5	273.5	291.1
47.5°	160.1	161.7	164.3	169.3	177.9	187.5	199.4	214.5	233.3	252.2	267.2
50°	151.6	153.0	155.6	160.1	167.9	177.3	189.1	202.6	219.4	237.5	250.1
52.5°	143.2	143.9	146.3	151.5	158.0	167.3	177.8	190.3	205.9	221.0	233.7
55°	129.6	131.4	133.0	136.8	143.0	151.9	161.3	173.1	185.2	198.0	208.8
57.5°	115.6	117.5	119.7	123.1	128.0	136.2	144.7	154.3	164.7	175.2	184.3
60°	106.3	108.0	110.0	113.8	118.3	124.8	134.1	142.4	150.3	160.0	169.0
62.5°	97.2	99.0	101.2	104.3	108.5	114.8	122.5	129.7	137.9	146.3	153.1
65°	83.7	85.1	86.8	89.8	93.8	99.4	105.7	111.4	118.7	124.8	131.0
67.5°	69.0	71.6	73.8	76.1	79.6	84.8	89.4	94.8	99.8	104.4	110.0
70°	59.3	62.1	64.2	66.8	70.0	74.5	78.9	82.6	86.7	91.1	96.1
72.5°	51.0	53.3	55.0	57.6	60.7	64.7	68.9	71.9	75.3	78.3	83.2
75°	40.4	41.3	42.5	44.6	47.3	50.4	53.6	56.3	58.3	61.0	64.4
77.5°	28.9	30.8	31.6	33.1	35.1	36.9	39.1	41.4	43.3	44.2	46.9
80°	22.2	23.0	23.7	25.8	27.0	28.9	30.5	32.6	33.3	34.3	36.9
82.5°	17.3	17.7	18.2	18.8	19.5	21.4	22.9	24.3	25.0	25.4	27.3
85°	10.0	10.2	10.4	10.6	10.8	10.8	11.6	12.6	13.9	13.9	14.5
87.5°	9.1	9.0	8.6	7.9	7.8	7.3	7.0	6.4	6.3	6.1	6.0
90°	28.7	27.1	24.9	22.7	20.5	18.3	15.7	12.7	9.7	6.7	3.7
92.5°	27.7	26.1	23.9	21.7	19.5	17.3	16.1	16.0	15.8	15.7	15.5
95°	28.7	27.1	26.7	26.5	26.3	25.9	30.5	39.8	49.1	58.3	67.6
97.5°	32.6	32.4	62.9	93.4	123.9	154.4	166.8	161.0	155.2	149.4	143.6
100°	49.5	54.1	91.8	129.5	167.2	204.9	221.3	216.4	211.5	206.6	201.6
102.5°	210.5	260.7	265.5	270.5	275.4	280.3	281.0	277.4	273.8	270.2	266.5
105°	386.0	383.6	382.2	380.9	379.5	378.1	376.7	375.0	373.3	371.7	370.1
107.5°	479.5	478.3	476.4	474.6	472.7	470.8	469.5	468.7	467.9	467.1	466.2
110°	542.7	542.2	540.5	538.9	537.3	535.7	534.4	533.6	532.8	532.0	531.2



TEST NUMBER: P333031-930

CATALOG NUMBER: S124RDIW-S350D1560U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	604.1	604.2	603.4	602.7	601.9	601.1	600.0	598.5	597.0	595.6	594.1
115°	694.0	693.4	693.7	694.0	694.2	694.6	694.2	693.4	692.6	691.8	691.0
117.5°	785.8	785.9	785.3	784.7	784.1	783.5	782.7	781.5	780.5	779.3	778.3
120°	841.6	841.0	841.2	841.6	841.8	842.0	841.6	840.6	839.5	838.4	837.3
122.5°	897.4	897.1	896.7	896.3	895.9	895.5	895.0	894.3	893.6	893.0	892.3
125°	974.6	973.8	974.3	974.9	975.4	975.9	975.7	974.6	973.5	972.4	971.3
127.5°	1052.8	1053.0	1051.7	1050.4	1049.2	1047.9	1047.2	1046.8	1046.6	1046.4	1046.0
130°	1099.4	1099.2	1098.4	1097.6	1096.7	1095.9	1095.4	1095.1	1094.8	1094.5	1094.3
132.5°	1145.7	1145.4	1144.4	1143.3	1142.3	1141.3	1140.5	1140.0	1139.5	1139.0	1138.5
135°	1209.2	1208.6	1207.5	1206.4	1205.3	1204.2	1203.8	1204.1	1204.4	1204.6	1204.9
137.5°	1270.2	1269.6	1268.4	1267.2	1266.0	1264.8	1264.1	1264.0	1263.9	1263.8	1263.7
140°	1307.8	1306.9	1306.4	1305.9	1305.3	1304.8	1304.2	1303.7	1303.2	1302.6	1302.0
142.5°	1343.0	1342.4	1342.1	1341.7	1341.4	1341.1	1340.4	1339.5	1338.5	1337.4	1336.4
145°	1393.3	1393.0	1393.0	1393.0	1393.0	1393.0	1392.6	1391.8	1391.0	1390.2	1389.4
147.5°	1437.3	1437.0	1437.3	1437.6	1437.9	1438.1	1437.5	1436.0	1434.4	1432.9	1431.4
150°	1465.6	1465.6	1465.8	1466.2	1466.4	1466.6	1466.2	1465.2	1464.0	1463.0	1461.9
152.5°	1489.6	1489.1	1489.6	1490.1	1490.6	1491.2	1490.9	1490.0	1489.2	1488.3	1487.4
155°	1522.0	1520.9	1521.8	1522.6	1523.4	1524.2	1524.4	1524.2	1523.9	1523.6	1523.4
157.5°	1550.1	1548.7	1549.6	1550.5	1551.4	1552.4	1553.0	1553.1	1553.3	1553.5	1553.6
160°	1568.1	1566.4	1566.7	1566.9	1567.2	1567.5	1568.1	1568.9	1569.7	1570.5	1571.3
162.5°	1582.7	1581.1	1581.4	1581.7	1581.9	1582.3	1582.9	1584.0	1584.9	1586.0	1587.1
165°	1603.0	1600.8	1600.8	1600.8	1600.8	1600.8	1601.5	1602.9	1604.3	1605.6	1607.0
167.5°	1618.0	1615.6	1615.8	1615.9	1616.1	1616.2	1617.0	1618.5	1619.8	1621.3	1622.7
170°	1627.6	1625.4	1625.1	1624.9	1624.6	1624.3	1625.0	1626.6	1628.2	1629.9	1631.6
172.5°	1633.5	1631.3	1631.0	1630.8	1630.5	1630.2	1630.9	1632.6	1634.2	1635.8	1637.4
175°	1640.1	1637.7	1637.4	1637.1	1636.9	1636.6	1637.3	1638.9	1640.5	1642.2	1643.8
177.5°	1643.6	1641.8	1641.4	1641.0	1640.5	1640.1	1640.7	1642.2	1643.7	1645.3	1646.8
180°	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8



TEST NUMBER: P333031-930

CATALOG NUMBER: S124RDIW-S350D1560U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9
2.5°	481.8	483.2	484.8	487.7	490.2	491.3	493.4	495.0	494.5	496.7	500.3
5°	483.7	488.9	495.0	501.1	508.0	513.8	518.4	523.1	526.8	531.2	537.8
7.5°	483.4	492.7	502.8	513.8	525.2	535.1	544.1	553.4	561.7	570.6	582.4
10°	482.2	494.6	507.1	521.5	536.1	549.8	562.1	573.6	584.7	596.4	611.3
12.5°	480.8	495.0	510.1	527.6	545.6	562.1	576.6	593.3	607.1	622.2	639.4
15°	474.7	493.7	514.5	537.0	558.6	580.8	600.6	621.1	640.3	658.4	680.0
17.5°	467.7	489.7	514.0	540.7	566.6	593.6	617.3	643.0	662.5	686.9	706.9
20°	461.9	485.7	511.7	541.6	571.1	601.0	627.1	653.4	675.3	699.9	725.3
22.5°	455.0	481.0	509.2	540.2	571.1	603.8	632.7	658.8	686.0	713.5	739.8
25°	443.8	470.8	500.8	534.7	570.2	603.6	634.5	666.8	696.2	726.1	749.7
27.5°	430.1	458.4	489.9	525.0	561.4	595.6	631.9	666.5	696.0	724.8	745.3
30°	419.1	449.0	479.3	514.8	552.6	589.3	628.3	662.8	693.9	719.7	731.3
32.5°	407.8	436.2	467.4	503.4	542.1	581.6	620.2	655.6	684.3	699.8	700.1
35°	388.2	414.8	447.3	482.6	522.4	565.2	604.3	639.0	656.6	657.9	639.0
37.5°	366.9	391.3	421.8	457.2	500.8	543.4	583.3	606.5	612.4	592.7	557.8
40°	351.6	374.1	403.7	439.9	483.1	527.2	563.6	580.6	574.5	542.6	503.6
42.5°	335.5	356.5	385.0	420.8	464.1	508.7	539.7	548.8	532.5	495.7	450.0
45°	309.3	328.6	356.8	392.9	434.6	476.2	499.8	495.1	467.9	424.3	373.2
47.5°	282.0	300.7	326.0	359.4	402.1	438.1	454.0	440.0	401.3	353.4	311.8
50°	264.0	283.1	306.4	338.3	377.2	412.0	422.2	401.0	357.9	311.9	273.6
52.5°	246.2	262.5	285.4	316.2	353.4	382.8	388.2	363.8	319.4	278.0	244.1
55°	219.2	234.1	253.3	282.3	314.5	339.4	336.5	305.1	264.7	229.4	202.8
57.5°	193.1	204.2	222.1	249.2	277.5	294.2	283.6	256.8	219.2	190.3	167.9
60°	175.8	186.2	202.8	226.5	251.4	260.9	252.0	222.9	193.1	166.7	147.8
62.5°	159.4	168.6	182.9	204.9	225.0	230.6	221.1	195.7	168.9	146.3	130.7
65°	135.7	144.1	156.3	171.9	185.8	188.5	182.4	156.3	136.1	117.2	106.3
67.5°	114.1	119.6	129.1	142.6	150.0	151.6	139.7	123.3	105.4	93.8	85.7
70°	99.5	103.5	112.3	119.6	125.6	125.8	114.8	101.7	88.0	78.5	72.6
72.5°	85.5	89.2	96.0	100.9	105.6	104.0	94.0	83.6	72.6	65.4	61.0
75°	66.0	69.3	72.7	75.1	75.1	73.1	65.8	58.0	51.7	47.5	46.1
77.5°	47.9	50.6	51.9	51.4	50.8	47.8	43.1	38.1	35.8	33.8	32.8
80°	37.7	38.8	39.1	38.2	37.0	33.6	30.5	28.4	26.3	25.4	25.1
82.5°	27.9	28.9	27.9	28.2	25.6	22.7	21.0	20.3	19.5	19.2	18.8
85°	14.8	14.7	14.3	13.3	11.6	11.2	11.0	10.8	10.4	10.6	10.2
87.5°	6.4	6.6	6.5	7.0	7.5	7.7	8.2	8.6	9.1	9.3	9.9
90°	6.7	9.7	12.7	15.7	18.3	20.5	22.7	24.9	27.1	28.7	30.3
92.5°	15.7	15.8	16.0	16.1	17.3	19.5	21.7	23.9	26.1	27.7	29.4
95°	58.3	49.1	39.8	30.5	25.9	26.3	26.5	26.7	27.1	28.7	30.3
97.5°	149.4	155.2	161.0	166.8	154.4	123.9	93.4	62.9	32.4	32.6	32.8
100°	206.6	211.5	216.4	221.3	204.9	167.2	129.5	91.8	54.1	49.5	44.8
102.5°	270.2	273.8	277.4	281.0	280.3	275.4	270.5	265.5	260.7	210.5	160.5
105°	371.7	373.3	375.0	376.7	378.1	379.5	380.9	382.2	383.6	386.0	388.5
107.5°	467.1	467.9	468.7	469.5	470.8	472.7	474.6	476.4	478.3	479.5	480.7
110°	532.0	532.8	533.6	534.4	535.7	537.3	538.9	540.5	542.2	542.7	543.3



TEST NUMBER: P333031-930

CATALOG NUMBER: S124RDIW-S350D1560U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	595.6	597.0	598.5	600.0	601.1	601.9	602.7	603.4	604.2	604.1	604.0
115°	691.8	692.6	693.4	694.2	694.6	694.2	694.0	693.7	693.4	694.0	694.6
117.5°	779.3	780.5	781.5	782.7	783.5	784.1	784.7	785.3	785.9	785.8	785.7
120°	838.4	839.5	840.6	841.6	842.0	841.8	841.6	841.2	841.0	841.6	842.0
122.5°	893.0	893.6	894.3	895.0	895.5	895.9	896.3	896.7	897.1	897.4	897.7
125°	972.4	973.5	974.6	975.7	975.9	975.4	974.9	974.3	973.8	974.6	975.4
127.5°	1046.4	1046.6	1046.8	1047.2	1047.9	1049.2	1050.4	1051.7	1053.0	1052.8	1052.6
130°	1094.5	1094.8	1095.1	1095.4	1095.9	1096.7	1097.6	1098.4	1099.2	1099.4	1099.8
132.5°	1139.0	1139.5	1140.0	1140.5	1141.3	1142.3	1143.3	1144.4	1145.4	1145.7	1146.0
135°	1204.6	1204.4	1204.1	1203.8	1204.2	1205.3	1206.4	1207.5	1208.6	1209.2	1209.7
137.5°	1263.8	1263.9	1264.0	1264.1	1264.8	1266.0	1267.2	1268.4	1269.6	1270.2	1270.8
140°	1302.6	1303.2	1303.7	1304.2	1304.8	1305.3	1305.9	1306.4	1306.9	1307.8	1308.6
142.5°	1337.4	1338.5	1339.5	1340.4	1341.1	1341.4	1341.7	1342.1	1342.4	1343.0	1343.6
145°	1390.2	1391.0	1391.8	1392.6	1393.0	1393.0	1393.0	1393.0	1393.0	1393.3	1393.6
147.5°	1432.9	1434.4	1436.0	1437.5	1438.1	1437.9	1437.6	1437.3	1437.0	1437.3	1437.5
150°	1463.0	1464.0	1465.2	1466.2	1466.6	1466.4	1466.2	1465.8	1465.6	1465.6	1465.6
152.5°	1488.3	1489.2	1490.0	1490.9	1491.2	1490.6	1490.1	1489.6	1489.1	1489.6	1490.0
155°	1523.6	1523.9	1524.2	1524.4	1524.2	1523.4	1522.6	1521.8	1520.9	1522.0	1523.1
157.5°	1553.5	1553.3	1553.1	1553.0	1552.4	1551.4	1550.5	1549.6	1548.7	1550.1	1551.5
160°	1570.5	1569.7	1568.9	1568.1	1567.5	1567.2	1566.9	1566.7	1566.4	1568.1	1569.7
162.5°	1586.0	1584.9	1584.0	1582.9	1582.3	1581.9	1581.7	1581.4	1581.1	1582.7	1584.5
165°	1605.6	1604.3	1602.9	1601.5	1600.8	1600.8	1600.8	1600.8	1600.8	1603.0	1605.2
167.5°	1621.3	1619.8	1618.5	1617.0	1616.2	1616.1	1615.9	1615.8	1615.6	1618.0	1620.4
170°	1629.9	1628.2	1626.6	1625.0	1624.3	1624.6	1624.9	1625.1	1625.4	1627.6	1629.8
172.5°	1635.8	1634.2	1632.6	1630.9	1630.2	1630.5	1630.8	1631.0	1631.3	1633.5	1635.7
175°	1642.2	1640.5	1638.9	1637.3	1636.6	1636.9	1637.1	1637.4	1637.7	1640.1	1642.6
177.5°	1645.3	1643.7	1642.2	1640.7	1640.1	1640.5	1641.0	1641.4	1641.8	1643.6	1645.4
180°	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8



TEST NUMBER: P333031-930

CATALOG NUMBER: S124RDIW-S350D1560U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	478.9	478.9	478.9	478.9	478.9	478.9	478.9
2.5°	502.4	503.0	503.4	505.0	505.2	506.5	505.2
5°	544.0	546.7	550.9	555.1	555.5	558.2	553.4
7.5°	590.5	596.8	600.7	607.6	610.3	612.0	609.2
10°	622.6	628.4	638.7	643.7	648.7	649.5	647.2
12.5°	653.7	662.8	670.9	680.4	680.2	687.0	684.5
15°	695.0	704.5	715.7	726.3	730.1	730.1	733.2
17.5°	724.5	741.8	753.4	761.7	770.9	772.4	771.4
20°	744.4	763.1	775.5	786.3	792.5	794.2	794.2
22.5°	759.2	775.2	787.3	797.0	802.0	804.0	803.5
25°	769.5	783.2	790.5	793.4	794.8	794.4	790.8
27.5°	755.5	754.8	750.2	741.4	734.7	730.6	725.9
30°	728.6	718.5	706.9	694.2	677.8	665.3	661.5
32.5°	688.6	666.1	646.5	625.3	607.6	595.1	589.8
35°	611.3	575.6	546.4	521.0	502.5	490.9	487.0
37.5°	519.5	484.9	448.9	424.2	408.8	397.1	392.8
40°	461.1	423.5	392.1	368.9	353.1	341.7	341.5
42.5°	407.9	371.9	342.3	325.7	308.7	301.1	301.1
45°	334.0	305.2	280.1	267.0	256.8	250.6	248.9
47.5°	276.5	252.7	236.0	225.6	217.3	213.4	210.8
50°	244.3	223.5	210.1	201.1	196.4	191.4	191.0
52.5°	217.4	200.6	190.2	182.9	177.0	174.0	174.1
55°	182.7	169.4	162.1	156.5	151.9	149.5	148.5
57.5°	153.9	144.0	138.6	133.5	131.5	129.7	129.2
60°	136.1	129.3	124.3	120.2	117.3	116.8	116.5
62.5°	121.2	114.1	110.7	107.5	105.4	104.5	104.2
65°	100.0	94.7	91.6	89.1	88.4	87.0	86.8
67.5°	80.6	77.5	75.4	73.7	72.6	72.6	72.6
70°	68.7	66.9	65.2	64.2	63.7	63.3	63.3
72.5°	58.5	57.2	55.8	55.3	55.2	54.8	54.6
75°	44.6	43.2	43.5	42.5	41.7	40.7	40.1
77.5°	31.6	30.7	30.4	30.3	29.7	29.6	29.8
80°	24.5	23.6	23.3	23.6	23.3	22.7	22.7
82.5°	18.7	17.9	17.6	17.5	17.4	17.5	17.2
85°	10.0	9.6	9.6	9.6	10.0	9.9	9.6
87.5°	9.9	10.1	10.5	10.4	10.5	10.5	10.8
90°	32.0	33.6	34.7	35.2	35.8	36.4	36.9
92.5°	31.0	32.6	33.5	33.6	33.8	33.8	33.9
95°	32.0	33.6	34.6	34.8	35.1	35.4	35.6
97.5°	32.9	33.1	33.3	33.6	33.9	34.2	34.4
100°	40.2	35.5	33.3	33.6	33.9	34.2	34.4
102.5°	110.3	60.3	35.2	35.2	35.3	35.4	35.4
105°	391.0	393.5	389.7	379.9	370.1	360.3	350.4
107.5°	481.9	483.1	484.2	485.3	486.2	487.3	488.4
110°	543.9	544.4	545.1	545.9	546.7	547.6	548.4



TEST NUMBER: P333031-930

CATALOG NUMBER: S124RDIW-S350D1560U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	603.8	603.7	604.2	605.3	606.3	607.3	608.4
115°	695.0	695.6	695.9	695.9	695.9	695.9	695.9
117.5°	785.5	785.5	785.4	785.2	785.1	785.1	784.9
120°	842.6	843.2	843.2	842.6	842.0	841.6	841.0
122.5°	898.1	898.4	898.2	897.7	897.2	896.6	896.1
125°	976.2	977.1	977.6	977.9	978.1	978.4	978.7
127.5°	1052.5	1052.3	1052.1	1051.9	1051.7	1051.4	1051.2
130°	1100.0	1100.2	1100.4	1100.4	1100.4	1100.4	1100.4
132.5°	1146.2	1146.5	1146.6	1146.3	1146.1	1145.9	1145.7
135°	1210.2	1210.8	1211.4	1211.9	1212.4	1213.0	1213.5
137.5°	1271.4	1272.0	1272.2	1272.0	1271.9	1271.7	1271.5
140°	1309.5	1310.3	1310.8	1311.1	1311.3	1311.6	1311.9
142.5°	1344.2	1344.8	1345.1	1345.2	1345.2	1345.2	1345.3
145°	1393.8	1394.1	1394.6	1395.1	1395.6	1396.2	1396.7
147.5°	1437.7	1437.9	1438.2	1438.4	1438.7	1439.0	1439.2
150°	1465.6	1465.6	1465.7	1466.0	1466.2	1466.6	1466.8
152.5°	1490.4	1490.9	1491.0	1490.9	1490.7	1490.5	1490.4
155°	1524.2	1525.3	1525.4	1524.6	1523.8	1523.0	1522.2
157.5°	1553.0	1554.4	1554.4	1553.0	1551.5	1550.1	1548.7
160°	1571.3	1573.0	1573.0	1571.3	1569.7	1568.1	1566.4
162.5°	1586.1	1587.7	1587.6	1585.8	1583.9	1582.0	1580.1
165°	1607.4	1609.6	1609.4	1607.0	1604.5	1602.1	1599.6
167.5°	1622.8	1625.2	1625.1	1622.3	1619.6	1616.8	1614.1
170°	1632.0	1634.2	1633.9	1631.2	1628.4	1625.7	1622.9
172.5°	1637.9	1640.1	1639.6	1636.7	1633.8	1630.8	1627.8
175°	1645.1	1647.6	1647.1	1643.8	1640.5	1637.3	1634.0
177.5°	1647.1	1648.9	1648.5	1645.8	1643.2	1640.5	1637.9
180°	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8	1643.8

(END OF REPORT)