

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: P332406-927

Luminaire Tested: **S123RDIW-S340D1535U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332406-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S340D1535U927-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1535 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5939.1 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

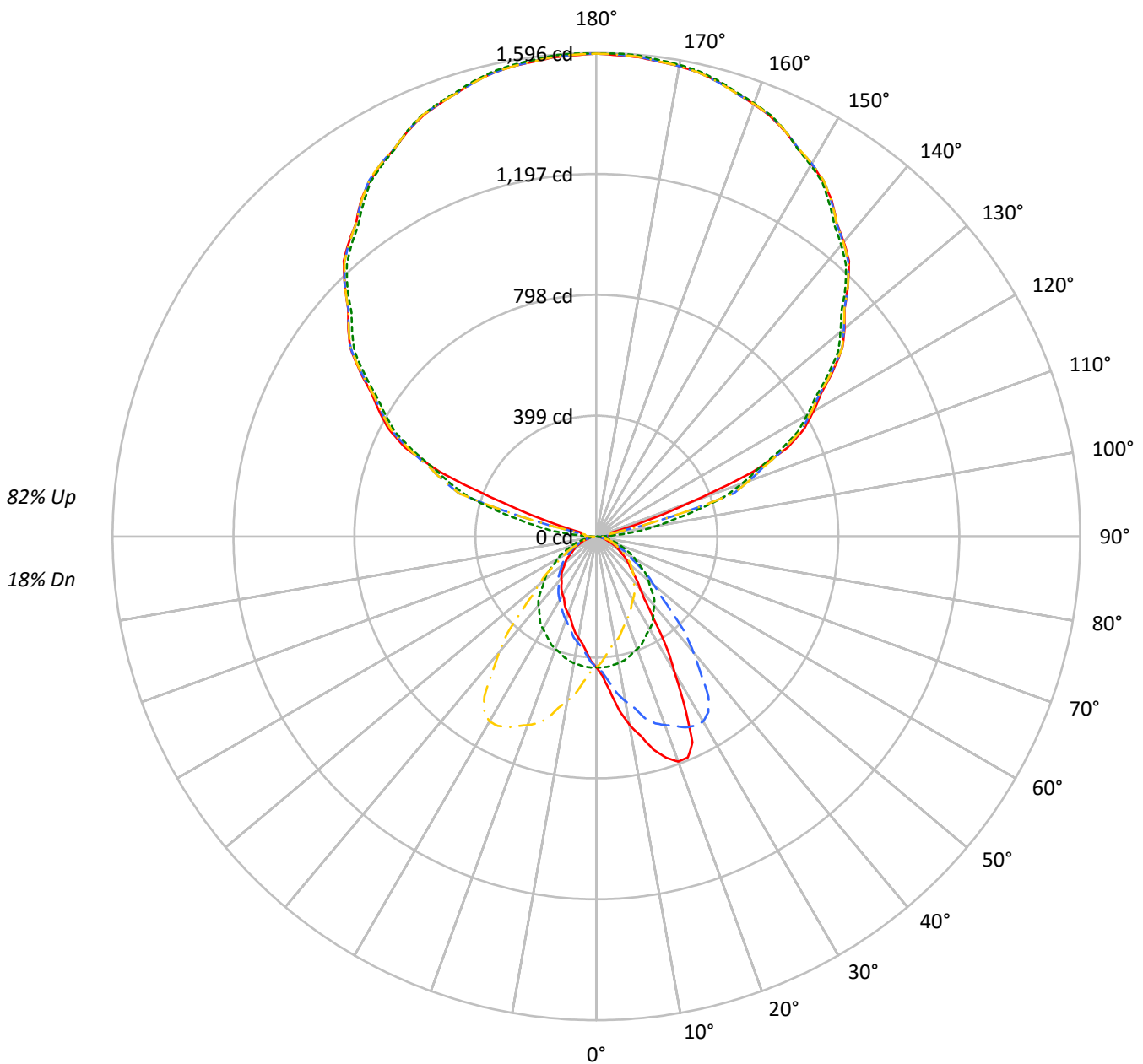
Input Watts (W): 53.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	45	45	45	27	27	27	18
1	91	87	83	80	80	77	74	71	58	56	54	40	39	38	24	23	23	16
2	83	76	70	66	73	67	62	58	51	48	45	35	34	32	21	20	20	13
3	76	67	60	55	66	59	54	49	45	41	38	31	29	27	19	18	17	12
4	69	59	52	46	61	52	46	42	40	36	32	28	25	23	17	16	15	10
5	63	53	45	39	56	47	40	36	36	31	28	25	22	20	15	14	13	9
6	58	47	39	34	51	42	35	31	32	27	24	23	20	18	14	13	11	8
7	54	42	35	30	47	38	31	27	29	24	21	21	18	16	13	11	10	7
8	50	38	31	26	44	34	28	24	26	22	19	19	16	14	12	10	9	6
9	46	35	28	23	41	31	25	21	24	20	17	17	14	12	11	9	8	6
10	43	32	25	20	38	28	22	19	22	18	15	16	13	11	10	9	7	5

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4640	4640	4640	4640
5°	5532	4660	4105	4660
10°	6907	4634	3707	4634
15°	8107	4586	3381	4586
20°	9049	4515	3103	4515
25°	8904	4441	2932	4441
30°	6400	4373	2757	4373
35°	4273	4282	2643	4282
40°	3147	4175	2525	4175
45°	2641	3987	2411	3987
50°	2331	3739	2251	3739
55°	2044	3457	2029	3457
60°	1819	3186	1858	3186
65°	1597	2896	1729	2896
70°	1253	2637	1580	2637
75°	1102	2304	1443	2304
80°	961	1953	1420	1953
85°	778	1581	1507	1581



TEST NUMBER: P332406-927

CATALOG NUMBER: S123RDIW-S340D1535U927-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.4	0.7
10°-20°	132.5	2.2
20°-30°	208.1	3.5
30°-40°	217.1	3.7
40°-50°	185.8	3.1
50°-60°	141.6	2.4
60°-70°	90.8	1.5
70°-80°	43.7	0.7
80°-90°	16.0	0.3
90°-100°	58.0	1.0
100°-110°	276.2	4.7
110°-120°	663.5	11.2
120°-130°	844.9	14.2
130°-140°	902.7	15.2
140°-150°	844.1	14.2
150°-160°	680.9	11.5
160°-170°	439.5	7.4
170°-180°	151.5	2.6
0°-30°	382.9	6.4
0°-40°	600.1	10.1
0°-60°	927.5	15.6
0°-90°	1077.9	18.1
90°-120°	997.6	16.8
90°-150°	3589.3	60.4
90°-180°	4861.0	81.8
0°-180°	5939.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	431	431	431	431	431	
5°	512	431	380	431	512	53
15°	728	412	303	412	728	206
25°	750	374	247	374	750	322
35°	325	326	201	326	325	213
45°	174	262	158	262	174	136
55°	109	184	108	184	109	98
65°	63	114	68	114	63	62
75°	26	55	35	55	26	28
85°	6	13	12	13	6	8
90°	36	1	36	1	36	16
95°	45	72	45	72	45	38
105°	52	353	52	353	52	119
115°	696	662	696	662	696	643
125°	952	933	952	933	952	850
135°	1174	1162	1174	1162	1174	905
145°	1354	1341	1354	1341	1354	845
155°	1474	1477	1474	1477	1474	680
165°	1554	1557	1554	1557	1554	439
175°	1588	1594	1588	1594	1588	151
180°	1594	1594	1594	1594	1594	



TEST NUMBER: P332406-927

CATALOG NUMBER: S123RDIW-S340D1535U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	459.2	459.8	457.9	457.6	455.3	454.8	454.8	451.6	449.7	447.3	445.8
5°	512.0	514.9	513.4	510.2	504.6	503.3	499.8	494.2	488.0	480.2	476.6
7.5°	577.9	581.9	580.4	575.3	569.4	564.7	554.8	545.7	532.8	521.5	511.8
10°	631.9	627.7	624.4	619.4	614.0	605.4	595.0	580.8	564.4	551.4	537.1
12.5°	672.4	671.7	667.5	662.3	654.8	646.6	633.8	616.6	597.5	578.8	562.3
15°	727.5	728.6	725.9	720.6	709.8	695.2	676.0	668.8	641.5	621.2	600.9
17.5°	765.7	765.5	765.1	757.7	746.8	736.4	718.6	699.7	674.9	646.3	619.0
20°	790.0	788.1	788.5	780.1	772.1	760.0	742.7	715.2	694.9	661.9	633.6
22.5°	789.3	788.9	790.4	787.5	781.6	772.5	758.8	735.5	709.6	676.3	644.5
25°	749.7	748.2	756.9	759.3	768.7	770.4	766.3	753.6	729.0	694.7	655.4
27.5°	627.4	626.6	642.7	662.9	688.4	708.3	727.5	736.7	729.0	704.4	665.0
30°	514.9	532.3	540.4	569.6	602.1	640.8	674.8	707.0	715.0	704.3	672.0
32.5°	427.5	442.7	449.5	474.4	504.8	550.2	601.1	646.8	679.1	687.3	667.9
35°	325.2	325.3	340.9	352.0	380.0	426.7	476.2	537.4	598.3	644.5	649.3
37.5°	259.5	260.4	269.8	280.8	301.9	326.5	370.1	421.0	491.4	562.2	603.8
40°	224.0	225.7	232.7	243.6	258.7	277.4	311.3	359.3	418.0	496.9	561.3
42.5°	201.3	204.0	207.6	216.0	225.4	242.9	270.3	307.4	360.8	435.3	509.6
45°	173.5	175.0	177.8	181.6	190.1	202.2	220.7	245.7	289.9	349.9	424.3
47.5°	153.0	152.3	155.2	158.3	164.0	172.3	184.7	204.9	236.5	284.7	347.8
50°	139.2	138.9	141.0	143.4	148.8	154.9	165.0	180.3	205.4	245.3	303.1
52.5°	126.2	126.8	128.3	131.3	135.1	140.1	149.2	160.3	181.8	216.2	264.4
55°	108.9	109.5	111.5	113.1	115.9	120.9	126.6	135.9	150.6	174.6	214.3
57.5°	94.3	94.0	95.9	96.4	99.5	103.5	108.0	115.2	125.9	143.7	170.4
60°	84.5	84.0	85.6	86.9	88.6	91.9	95.6	102.6	111.1	124.2	147.1
62.5°	75.7	75.4	76.6	78.0	79.3	82.3	85.4	90.8	97.5	108.5	126.7
65°	62.7	63.3	63.8	64.4	65.1	67.0	69.9	73.7	78.3	86.0	99.1
67.5°	49.4	49.9	50.1	51.2	52.8	53.9	55.8	59.0	62.3	68.8	76.2
70°	39.8	39.7	39.8	40.4	42.5	44.4	46.9	49.3	51.3	55.9	62.2
72.5°	34.2	33.9	34.4	34.5	35.5	36.0	37.5	39.8	42.5	45.6	50.1
75°	26.5	26.5	26.5	26.5	27.3	27.6	28.2	28.8	29.7	31.2	34.5
77.5°	19.6	19.6	20.0	20.1	20.3	20.5	20.8	21.4	21.7	22.5	23.9
80°	15.5	15.7	15.5	15.7	15.7	16.1	16.2	16.8	17.0	17.9	18.5
82.5°	11.6	11.6	11.6	11.9	11.9	12.2	12.3	12.7	12.7	13.2	13.7
85°	6.3	5.9	6.3	6.1	6.5	6.1	6.3	6.7	6.7	6.8	7.6
87.5°	8.6	8.8	8.4	8.4	8.3	8.3	8.1	7.8	8.0	7.6	7.1
90°	35.5	35.0	34.5	34.0	33.4	32.6	31.6	30.5	29.5	28.4	25.0
92.5°	39.3	39.0	38.7	38.3	38.0	37.1	35.4	33.7	32.0	30.3	27.7
95°	45.0	45.0	45.0	45.0	45.0	44.0	42.2	40.4	38.6	36.7	33.8
97.5°	48.8	48.6	48.2	48.0	47.8	46.6	44.4	42.4	40.2	38.1	35.1
100°	49.7	49.5	49.2	49.0	48.7	47.5	45.4	43.3	41.2	39.1	36.2
102.5°	50.7	50.2	49.7	49.3	48.8	51.8	58.4	64.9	71.4	78.0	122.8
105°	52.1	51.6	51.1	50.5	50.0	73.0	119.6	166.2	212.8	259.4	283.0
107.5°	163.7	198.8	233.9	269.0	304.1	338.7	372.9	407.0	441.2	475.4	471.7
110°	325.7	363.3	400.9	438.6	476.2	499.4	508.0	516.7	525.5	534.1	531.2



TEST NUMBER: P332406-927

CATALOG NUMBER: S123RDIW-S340D1535U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	558.7	566.7	574.6	582.6	590.6	594.5	594.3	594.1	594.0	593.8	590.9
115°	696.4	695.3	694.3	693.2	692.1	690.3	687.7	685.1	682.4	679.8	677.4
117.5°	773.6	773.4	773.2	772.9	772.8	771.6	769.4	767.4	765.2	763.2	761.9
120°	826.6	826.6	826.6	826.6	826.6	825.6	823.5	821.4	819.3	817.1	816.3
122.5°	878.8	878.5	878.3	878.1	877.9	877.1	875.6	874.1	872.7	871.2	870.1
125°	952.2	951.6	951.1	950.6	950.1	949.5	949.0	948.5	948.0	947.5	946.4
127.5°	1022.8	1023.3	1023.8	1024.4	1024.8	1024.7	1023.9	1023.0	1022.2	1021.4	1020.1
130°	1068.3	1068.7	1069.3	1069.8	1070.3	1070.1	1069.1	1067.9	1066.9	1065.9	1064.9
132.5°	1109.9	1110.6	1111.4	1112.1	1112.9	1112.7	1111.7	1110.6	1109.5	1108.5	1107.6
135°	1173.6	1174.4	1175.2	1176.0	1176.8	1176.8	1176.0	1175.2	1174.4	1173.6	1172.6
137.5°	1233.6	1234.1	1234.6	1235.2	1235.6	1235.3	1234.1	1232.8	1231.5	1230.3	1229.7
140°	1269.6	1270.1	1270.7	1271.1	1271.7	1271.4	1270.3	1269.3	1268.3	1267.2	1266.4
142.5°	1302.7	1303.5	1304.2	1305.0	1305.7	1305.6	1304.8	1303.9	1303.1	1302.3	1301.5
145°	1353.7	1353.7	1353.7	1353.7	1353.7	1353.4	1352.9	1352.3	1351.8	1351.3	1350.8
147.5°	1391.5	1392.7	1394.0	1395.2	1396.4	1396.8	1396.2	1395.7	1395.2	1394.6	1394.1
150°	1420.0	1420.8	1421.6	1422.4	1423.2	1423.2	1422.8	1422.2	1421.7	1421.2	1420.6
152.5°	1442.7	1443.9	1445.1	1446.4	1447.6	1447.7	1446.8	1445.8	1444.9	1443.9	1443.6
155°	1474.5	1476.0	1477.6	1479.2	1480.7	1480.9	1479.6	1478.3	1476.9	1475.6	1475.4
157.5°	1501.2	1503.2	1505.3	1507.4	1509.4	1509.7	1508.1	1506.5	1504.9	1503.3	1503.6
160°	1518.3	1520.1	1521.9	1523.8	1525.7	1525.7	1524.2	1522.7	1521.1	1519.5	1519.7
162.5°	1534.4	1536.0	1537.6	1539.3	1540.9	1540.8	1539.1	1537.2	1535.5	1533.7	1533.9
165°	1553.8	1555.6	1557.5	1559.3	1561.2	1561.1	1558.9	1556.8	1554.7	1552.6	1552.9
167.5°	1567.8	1569.9	1572.0	1574.1	1576.2	1576.2	1574.1	1572.0	1569.9	1567.8	1567.8
170°	1576.3	1578.4	1580.5	1582.6	1584.8	1584.8	1582.6	1580.5	1578.4	1576.3	1576.3
172.5°	1581.0	1583.3	1585.7	1588.0	1590.3	1590.4	1588.3	1586.2	1584.1	1582.0	1581.8
175°	1588.2	1590.2	1592.4	1594.4	1596.6	1596.7	1594.8	1593.0	1591.2	1589.4	1589.0
177.5°	1590.3	1592.4	1594.5	1596.6	1598.7	1598.9	1597.2	1595.5	1593.9	1592.2	1592.0
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0



TEST NUMBER: P332406-927

CATALOG NUMBER: S123RDIW-S340D1535U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	445.1	444.7	442.7	440.3	437.2	435.1	433.5	432.6	429.9	426.7	424.5
5°	472.7	467.1	461.2	454.0	447.3	440.5	436.3	431.3	425.2	418.4	413.6
7.5°	502.1	491.2	479.6	467.5	455.6	444.9	435.4	427.3	417.6	407.8	401.0
10°	524.7	508.8	492.4	475.6	460.3	445.9	434.8	424.0	412.3	401.1	392.5
12.5°	545.3	524.3	505.4	484.7	465.2	448.0	432.1	419.2	405.2	393.2	383.6
15°	571.2	549.8	527.0	495.5	469.5	447.7	428.3	411.5	394.6	379.9	370.4
17.5°	595.5	563.3	532.5	506.4	472.5	445.4	421.7	401.6	382.9	367.3	355.7
20°	605.5	574.3	541.0	507.6	474.4	443.9	416.4	394.2	374.9	357.1	346.4
22.5°	611.6	576.3	541.1	505.2	469.9	438.2	411.1	386.7	365.7	348.9	335.6
25°	618.6	576.6	537.8	502.4	466.4	432.1	399.7	373.9	351.3	333.4	319.3
27.5°	623.3	573.8	528.0	488.6	452.1	418.0	388.3	360.9	337.9	318.9	303.9
30°	624.2	571.6	520.5	477.8	440.8	409.3	378.0	351.8	327.4	307.3	293.3
32.5°	625.3	566.1	510.2	465.0	427.0	395.9	367.5	342.5	317.5	297.7	283.4
35°	620.5	563.1	494.8	442.8	404.7	374.6	349.0	325.9	301.4	282.2	267.6
37.5°	599.5	551.1	478.8	417.7	378.0	350.1	329.2	309.1	286.6	265.9	252.2
40°	578.5	539.3	466.4	402.5	361.0	332.4	313.5	297.1	275.4	256.0	241.2
42.5°	547.0	523.2	454.6	386.6	341.8	314.3	298.3	283.0	263.9	244.2	230.3
45°	489.3	492.4	430.4	361.2	315.2	287.6	272.6	261.9	244.9	228.7	214.4
47.5°	416.9	446.2	402.0	334.1	287.2	261.3	248.2	238.8	227.4	211.4	198.4
50°	369.7	411.5	379.3	316.0	269.7	243.8	230.9	223.3	213.3	200.8	188.5
52.5°	326.1	371.1	351.8	295.7	250.6	227.0	214.4	208.1	200.2	188.4	177.2
55°	265.9	311.6	307.1	265.2	222.0	200.8	191.2	184.2	178.9	170.0	161.1
57.5°	215.2	258.3	260.6	231.2	196.9	175.9	167.6	162.3	158.8	152.2	143.9
60°	183.1	222.8	230.5	208.3	178.9	160.4	152.3	148.0	145.3	139.9	133.6
62.5°	156.5	190.3	199.1	183.2	161.6	144.3	137.9	133.9	132.0	127.4	121.8
65°	119.8	147.8	156.3	147.5	136.2	122.4	117.2	113.7	112.0	109.5	105.4
67.5°	90.1	110.5	119.9	113.6	109.5	100.8	97.5	95.6	94.1	92.4	89.0
70°	72.3	87.5	97.0	95.5	92.1	87.5	85.1	83.8	82.3	80.8	77.9
72.5°	58.1	68.6	77.6	78.4	75.7	74.8	72.6	72.1	71.2	69.5	67.8
75°	38.6	45.8	52.0	54.4	55.5	56.5	55.5	55.4	55.2	53.7	52.8
77.5°	25.3	29.2	33.1	37.2	39.0	40.2	40.5	41.2	40.6	39.9	39.5
80°	19.4	20.3	23.1	26.5	29.3	30.4	31.2	31.5	31.4	31.2	30.4
82.5°	14.1	14.8	16.2	18.6	20.9	22.7	23.2	23.1	23.5	23.7	23.1
85°	7.6	7.8	8.2	8.5	9.7	11.8	12.4	12.8	13.1	13.1	12.0
87.5°	6.7	5.9	5.5	4.8	4.8	4.4	4.8	5.0	5.6	5.5	6.1
90°	21.5	18.1	14.7	11.7	9.1	6.4	3.8	1.2	3.8	6.4	9.1
92.5°	25.2	22.6	20.0	19.1	19.8	20.5	21.3	22.0	21.3	20.5	19.8
95°	30.9	28.0	25.1	29.1	39.8	50.7	61.5	72.2	61.5	50.7	39.8
97.5°	76.0	95.0	113.9	125.8	130.6	135.5	140.4	145.2	140.4	135.5	130.6
100°	121.2	162.2	203.3	221.2	215.9	210.6	205.4	200.2	205.4	210.6	215.9
102.5°	167.6	212.5	257.3	277.8	274.0	270.3	266.5	262.7	266.5	270.3	274.0
105°	306.7	330.4	354.1	364.5	361.6	358.7	355.8	352.9	355.8	358.7	361.6
107.5°	467.9	464.1	460.4	457.4	455.1	452.7	450.4	448.1	450.4	452.7	455.1
110°	528.3	525.5	522.5	520.1	517.9	515.8	513.7	511.6	513.7	515.8	517.9



TEST NUMBER: P332406-927

CATALOG NUMBER: S123RDIW-S340D1535U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	588.0	585.1	582.3	579.8	578.0	576.1	574.2	572.3	574.2	576.1	578.0
115°	675.0	672.7	670.3	668.4	666.8	665.2	663.6	662.0	663.6	665.2	666.8
117.5°	760.7	759.5	758.4	756.8	754.8	752.8	750.9	748.9	750.9	752.8	754.8
120°	815.6	814.8	814.0	812.5	810.1	807.7	805.3	803.0	805.3	807.7	810.1
122.5°	869.2	868.2	867.2	865.7	863.7	861.8	859.8	857.9	859.8	861.8	863.7
125°	945.3	944.3	943.3	941.7	939.5	937.5	935.3	933.2	935.3	937.5	939.5
127.5°	1018.8	1017.6	1016.3	1014.6	1012.5	1010.4	1008.3	1006.2	1008.3	1010.4	1012.5
130°	1063.7	1062.7	1061.7	1060.1	1058.0	1055.9	1053.8	1051.6	1053.8	1055.9	1058.0
132.5°	1106.8	1106.0	1105.2	1103.7	1101.5	1099.5	1097.3	1095.3	1097.3	1099.5	1101.5
135°	1171.6	1170.4	1169.4	1168.2	1166.6	1165.0	1163.4	1161.8	1163.4	1165.0	1166.6
137.5°	1229.1	1228.5	1228.0	1226.6	1224.6	1222.7	1220.7	1218.6	1220.7	1222.7	1224.6
140°	1265.6	1264.8	1264.0	1262.9	1261.3	1259.7	1258.1	1256.6	1258.1	1259.7	1261.3
142.5°	1300.7	1299.9	1299.1	1297.9	1296.3	1294.7	1293.2	1291.6	1293.2	1294.7	1296.3
145°	1350.2	1349.7	1349.2	1348.0	1346.2	1344.3	1342.4	1340.6	1342.4	1344.3	1346.2
147.5°	1393.6	1393.1	1392.5	1391.6	1390.4	1389.3	1388.1	1386.8	1388.1	1389.3	1390.4
150°	1420.1	1419.6	1419.0	1418.4	1417.6	1416.8	1416.0	1415.2	1416.0	1416.8	1417.6
152.5°	1443.3	1443.0	1442.6	1442.3	1441.9	1441.5	1441.2	1440.8	1441.2	1441.5	1441.9
155°	1475.1	1474.9	1474.6	1474.7	1475.3	1475.8	1476.3	1476.8	1476.3	1475.8	1475.3
157.5°	1503.9	1504.1	1504.4	1504.6	1504.6	1504.7	1504.8	1504.8	1504.8	1504.7	1504.6
160°	1520.0	1520.3	1520.5	1520.8	1521.1	1521.3	1521.5	1521.9	1521.5	1521.3	1521.1
162.5°	1534.2	1534.5	1534.7	1535.2	1535.9	1536.6	1537.2	1537.9	1537.2	1536.6	1535.9
165°	1553.2	1553.4	1553.7	1554.2	1555.0	1555.8	1556.6	1557.4	1556.6	1555.8	1555.0
167.5°	1567.8	1567.8	1567.8	1568.3	1569.4	1570.4	1571.5	1572.5	1571.5	1570.4	1569.4
170°	1576.3	1576.3	1576.3	1576.8	1577.9	1578.9	1580.0	1581.0	1580.0	1578.9	1577.9
172.5°	1581.6	1581.4	1581.1	1581.7	1582.9	1584.2	1585.5	1586.7	1585.5	1584.2	1582.9
175°	1588.8	1588.6	1588.2	1588.8	1590.1	1591.4	1592.8	1594.0	1592.8	1591.4	1590.1
177.5°	1591.7	1591.6	1591.3	1591.7	1592.8	1593.9	1594.9	1595.9	1594.9	1593.9	1592.8
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0



TEST NUMBER: P332406-927

CATALOG NUMBER: S123RDIW-S340D1535U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	423.7	421.8	420.5	417.6	415.7	413.6	411.5	412.8	412.6	412.6	412.6
5°	409.6	405.3	401.4	396.4	393.3	389.4	386.5	386.1	386.8	384.3	382.8
7.5°	395.5	389.7	384.1	378.7	372.8	368.1	365.3	363.8	362.0	360.4	358.8
10°	385.6	378.7	373.4	366.5	360.3	354.7	351.3	348.8	347.5	346.3	343.8
12.5°	375.3	368.7	361.9	354.1	348.2	341.7	339.1	336.4	334.0	332.5	329.2
15°	360.4	351.8	344.6	336.4	329.8	323.5	319.9	314.5	313.8	311.9	308.6
17.5°	345.5	336.1	326.1	320.1	312.7	306.1	300.5	298.7	293.4	291.4	288.5
20°	333.7	325.0	317.4	309.5	298.7	292.6	288.1	285.7	281.5	278.8	277.0
22.5°	323.5	314.7	305.9	296.7	287.7	280.8	277.6	273.9	271.6	267.9	265.9
25°	309.0	299.4	288.8	278.8	272.4	267.3	262.1	258.7	255.4	253.7	250.1
27.5°	292.1	282.0	272.2	264.6	256.7	251.6	246.9	244.0	240.0	237.2	235.1
30°	282.7	270.9	262.4	255.6	245.5	240.7	237.2	233.5	230.5	227.6	225.5
32.5°	272.0	261.2	253.2	244.7	236.9	231.6	227.1	223.9	221.3	218.6	216.5
35°	255.1	246.1	237.7	229.3	223.5	218.2	212.8	210.0	207.6	205.0	203.2
37.5°	239.8	231.3	223.4	215.4	208.3	203.9	199.6	197.5	194.2	192.5	190.7
40°	230.4	222.0	213.6	205.8	198.4	195.1	191.2	188.1	185.1	183.8	181.8
42.5°	220.0	211.7	204.5	196.2	190.1	185.6	182.0	178.6	176.4	174.5	173.4
45°	204.7	197.3	190.3	182.0	176.3	172.4	168.3	165.2	163.2	161.8	159.9
47.5°	189.8	182.4	175.3	168.1	162.6	158.1	154.0	151.9	149.2	147.6	146.2
50°	179.0	172.4	164.9	158.2	152.7	148.2	144.9	142.1	139.7	137.7	136.7
52.5°	169.1	162.1	155.5	149.3	143.5	138.5	135.5	132.5	130.7	128.4	127.3
55°	152.8	146.0	140.5	134.4	128.7	124.4	120.7	118.1	116.3	113.7	112.3
57.5°	137.5	131.3	124.8	119.5	113.6	110.0	106.9	103.5	101.2	99.2	97.7
60°	127.1	120.2	114.4	109.5	104.3	99.7	96.9	94.1	91.7	89.7	88.4
62.5°	116.4	110.3	104.8	99.4	94.7	90.6	87.5	85.2	83.0	81.8	80.4
65°	99.8	95.1	89.5	85.1	80.6	77.7	75.1	73.1	71.6	70.7	69.6
67.5°	84.6	80.0	75.2	70.8	67.8	65.6	63.9	62.2	61.4	60.2	59.5
70°	74.8	69.9	65.7	62.3	59.4	57.8	56.6	55.4	54.7	53.2	52.4
72.5°	64.0	60.5	57.4	54.7	52.4	50.9	49.4	47.8	46.7	45.0	44.3
75°	50.4	47.2	44.8	43.0	41.5	39.5	37.5	35.8	35.3	34.7	34.5
77.5°	37.3	35.3	33.6	32.0	30.2	28.8	28.3	27.9	27.8	27.5	27.5
80°	29.3	27.5	26.2	24.4	23.3	23.3	23.3	22.9	23.1	23.1	23.1
82.5°	21.8	20.1	19.4	18.8	18.5	18.7	18.7	18.8	18.6	18.9	18.8
85°	11.2	11.4	11.8	11.6	11.8	11.8	12.2	12.0	12.2	11.8	12.2
87.5°	6.5	7.5	8.3	9.2	10.0	10.5	10.9	11.1	11.5	11.7	11.9
90°	11.7	14.7	18.1	21.5	25.0	28.4	29.5	30.5	31.6	32.6	33.4
92.5°	19.1	20.0	22.6	25.2	27.7	30.3	32.0	33.7	35.4	37.1	38.0
95°	29.1	25.1	28.0	30.9	33.8	36.7	38.6	40.4	42.2	44.0	45.0
97.5°	125.8	113.9	95.0	76.0	57.1	38.1	40.2	42.4	44.4	46.6	47.8
100°	221.2	203.3	162.2	121.2	80.2	39.1	41.2	43.3	45.4	47.5	48.7
102.5°	277.8	257.3	212.5	167.6	122.8	78.0	71.4	64.9	58.4	51.8	48.8
105°	364.5	354.1	330.4	306.7	283.0	259.4	212.8	166.2	119.6	73.0	50.0
107.5°	457.4	460.4	464.1	467.9	471.7	475.4	441.2	407.0	372.9	338.7	304.1
110°	520.1	522.5	525.5	528.3	531.2	534.1	525.5	516.7	508.0	499.4	476.2



TEST NUMBER: P332406-927

CATALOG NUMBER: S123RDIW-S340D1535U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	579.8	582.3	585.1	588.0	590.9	593.8	594.0	594.1	594.3	594.5	590.6
115°	668.4	670.3	672.7	675.0	677.4	679.8	682.4	685.1	687.7	690.3	692.1
117.5°	756.8	758.4	759.5	760.7	761.9	763.2	765.2	767.4	769.4	771.6	772.8
120°	812.5	814.0	814.8	815.6	816.3	817.1	819.3	821.4	823.5	825.6	826.6
122.5°	865.7	867.2	868.2	869.2	870.1	871.2	872.7	874.1	875.6	877.1	877.9
125°	941.7	943.3	944.3	945.3	946.4	947.5	948.0	948.5	949.0	949.5	950.1
127.5°	1014.6	1016.3	1017.6	1018.8	1020.1	1021.4	1022.2	1023.0	1023.9	1024.7	1024.8
130°	1060.1	1061.7	1062.7	1063.7	1064.9	1065.9	1066.9	1067.9	1069.1	1070.1	1070.3
132.5°	1103.7	1105.2	1106.0	1106.8	1107.6	1108.5	1109.5	1110.6	1111.7	1112.7	1112.9
135°	1168.2	1169.4	1170.4	1171.6	1172.6	1173.6	1174.4	1175.2	1176.0	1176.8	1176.8
137.5°	1226.6	1228.0	1228.5	1229.1	1229.7	1230.3	1231.5	1232.8	1234.1	1235.3	1235.6
140°	1262.9	1264.0	1264.8	1265.6	1266.4	1267.2	1268.3	1269.3	1270.3	1271.4	1271.7
142.5°	1297.9	1299.1	1299.9	1300.7	1301.5	1302.3	1303.1	1303.9	1304.8	1305.6	1305.7
145°	1348.0	1349.2	1349.7	1350.2	1350.8	1351.3	1351.8	1352.3	1352.9	1353.4	1353.7
147.5°	1391.6	1392.5	1393.1	1393.6	1394.1	1394.6	1395.2	1395.7	1396.2	1396.8	1396.4
150°	1418.4	1419.0	1419.6	1420.1	1420.6	1421.2	1421.7	1422.2	1422.8	1423.2	1423.2
152.5°	1442.3	1442.6	1443.0	1443.3	1443.6	1443.9	1444.9	1445.8	1446.8	1447.7	1447.6
155°	1474.7	1474.6	1474.9	1475.1	1475.4	1475.6	1476.9	1478.3	1479.6	1480.9	1480.7
157.5°	1504.6	1504.4	1504.1	1503.9	1503.6	1503.3	1504.9	1506.5	1508.1	1509.7	1509.4
160°	1520.8	1520.5	1520.3	1520.0	1519.7	1519.5	1521.1	1522.7	1524.2	1525.7	1525.7
162.5°	1535.2	1534.7	1534.5	1534.2	1533.9	1533.7	1535.5	1537.2	1539.1	1540.8	1540.9
165°	1554.2	1553.7	1553.4	1553.2	1552.9	1552.6	1554.7	1556.8	1558.9	1561.1	1561.2
167.5°	1568.3	1567.8	1567.8	1567.8	1567.8	1567.8	1569.9	1572.0	1574.1	1576.2	1576.2
170°	1576.8	1576.3	1576.3	1576.3	1576.3	1576.3	1578.4	1580.5	1582.6	1584.8	1584.8
172.5°	1581.7	1581.1	1581.4	1581.6	1581.8	1582.0	1584.1	1586.2	1588.3	1590.4	1590.3
175°	1588.8	1588.2	1588.6	1588.8	1589.0	1589.4	1591.2	1593.0	1594.8	1596.7	1596.6
177.5°	1591.7	1591.3	1591.6	1591.7	1592.0	1592.2	1593.9	1595.5	1597.2	1598.9	1598.7
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0



TEST NUMBER: P332406-927

CATALOG NUMBER: S123RDIW-S340D1535U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	410.7	410.6	410.7	410.2	410.7	410.6	410.7	412.6	412.6	412.6	412.8
5°	382.2	382.1	381.5	379.9	381.5	382.1	382.2	382.8	384.3	386.8	386.1
7.5°	357.3	357.0	355.5	355.5	355.5	357.0	357.3	358.8	360.4	362.0	363.8
10°	342.5	342.7	340.5	339.2	340.5	342.7	342.5	343.8	346.3	347.5	348.8
12.5°	328.2	327.4	325.6	324.2	325.6	327.4	328.2	329.2	332.5	334.0	336.4
15°	309.3	307.4	303.1	303.4	303.1	307.4	309.3	308.6	311.9	313.8	314.5
17.5°	287.1	285.7	285.7	283.0	285.7	285.7	287.1	288.5	291.4	293.4	298.7
20°	274.1	273.1	273.5	270.9	273.5	273.1	274.1	277.0	278.8	281.5	285.7
22.5°	263.9	262.9	261.4	260.6	261.4	262.9	263.9	265.9	267.9	271.6	273.9
25°	249.0	247.5	246.1	246.9	246.1	247.5	249.0	250.1	253.7	255.4	258.7
27.5°	234.1	233.0	231.5	231.3	231.5	233.0	234.1	235.1	237.2	240.0	244.0
30°	224.6	223.5	222.8	221.8	222.8	223.5	224.6	225.5	227.6	230.5	233.5
32.5°	215.0	214.8	213.5	213.3	213.5	214.8	215.0	216.5	218.6	221.3	223.9
35°	202.5	201.4	201.0	201.1	201.0	201.4	202.5	203.2	205.0	207.6	210.0
37.5°	190.5	189.1	188.4	187.7	188.4	189.1	190.5	190.7	192.5	194.2	197.5
40°	182.0	180.5	180.1	179.7	180.1	180.5	182.0	181.8	183.8	185.1	188.1
42.5°	172.4	171.8	171.6	170.9	171.6	171.8	172.4	173.4	174.5	176.4	178.6
45°	159.3	159.1	158.0	158.4	158.0	159.1	159.3	159.9	161.8	163.2	165.2
47.5°	145.4	144.7	143.9	144.4	143.9	144.7	145.4	146.2	147.6	149.2	151.9
50°	136.0	135.6	134.0	134.4	134.0	135.6	136.0	136.7	137.7	139.7	142.1
52.5°	126.6	125.2	124.5	124.3	124.5	125.2	126.6	127.3	128.4	130.7	132.5
55°	110.9	109.2	108.5	108.1	108.5	109.2	110.9	112.3	113.7	116.3	118.1
57.5°	95.5	95.1	94.5	94.9	94.5	95.1	95.5	97.7	99.2	101.2	103.5
60°	86.6	86.6	86.6	86.3	86.6	86.6	86.6	88.4	89.7	91.7	94.1
62.5°	79.6	79.1	79.1	79.3	79.1	79.1	79.6	80.4	81.8	83.0	85.2
65°	69.0	68.8	68.1	67.9	68.1	68.8	69.0	69.6	70.7	71.6	73.1
67.5°	59.0	58.4	58.1	57.9	58.1	58.4	59.0	59.5	60.2	61.4	62.2
70°	51.5	51.1	50.0	50.2	50.0	51.1	51.5	52.4	53.2	54.7	55.4
72.5°	43.4	43.0	42.8	42.5	42.8	43.0	43.4	44.3	45.0	46.7	47.8
75°	34.3	34.1	34.0	34.7	34.0	34.1	34.3	34.5	34.7	35.3	35.8
77.5°	27.5	27.5	27.6	27.3	27.6	27.5	27.5	27.5	27.5	27.8	27.9
80°	23.1	23.1	22.9	22.9	22.9	23.1	23.1	23.1	23.1	23.1	22.9
82.5°	18.5	18.6	18.8	18.5	18.8	18.6	18.5	18.8	18.9	18.6	18.8
85°	12.2	12.0	12.4	12.2	12.4	12.0	12.2	12.2	11.8	12.2	12.0
87.5°	12.3	12.0	12.2	12.4	12.2	12.0	12.3	11.9	11.7	11.5	11.1
90°	34.0	34.5	35.0	35.5	35.0	34.5	34.0	33.4	32.6	31.6	30.5
92.5°	38.3	38.7	39.0	39.3	39.0	38.7	38.3	38.0	37.1	35.4	33.7
95°	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	44.0	42.2	40.4
97.5°	48.0	48.2	48.6	48.8	48.6	48.2	48.0	47.8	46.6	44.4	42.4
100°	49.0	49.2	49.5	49.7	49.5	49.2	49.0	48.7	47.5	45.4	43.3
102.5°	49.3	49.7	50.2	50.7	50.2	49.7	49.3	48.8	51.8	58.4	64.9
105°	50.5	51.1	51.6	52.1	51.6	51.1	50.5	50.0	73.0	119.6	166.2
107.5°	269.0	233.9	198.8	163.7	198.8	233.9	269.0	304.1	338.7	372.9	407.0
110°	438.6	400.9	363.3	325.7	363.3	400.9	438.6	476.2	499.4	508.0	516.7



TEST NUMBER: P332406-927

CATALOG NUMBER: S123RDIW-S340D1535U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	582.6	574.6	566.7	558.7	566.7	574.6	582.6	590.6	594.5	594.3	594.1
115°	693.2	694.3	695.3	696.4	695.3	694.3	693.2	692.1	690.3	687.7	685.1
117.5°	772.9	773.2	773.4	773.6	773.4	773.2	772.9	772.8	771.6	769.4	767.4
120°	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	825.6	823.5	821.4
122.5°	878.1	878.3	878.5	878.8	878.5	878.3	878.1	877.9	877.1	875.6	874.1
125°	950.6	951.1	951.6	952.2	951.6	951.1	950.6	950.1	949.5	949.0	948.5
127.5°	1024.4	1023.8	1023.3	1022.8	1023.3	1023.8	1024.4	1024.8	1024.7	1023.9	1023.0
130°	1069.8	1069.3	1068.7	1068.3	1068.7	1069.3	1069.8	1070.3	1070.1	1069.1	1067.9
132.5°	1112.1	1111.4	1110.6	1109.9	1110.6	1111.4	1112.1	1112.9	1112.7	1111.7	1110.6
135°	1176.0	1175.2	1174.4	1173.6	1174.4	1175.2	1176.0	1176.8	1176.8	1176.0	1175.2
137.5°	1235.2	1234.6	1234.1	1233.6	1234.1	1234.6	1235.2	1235.6	1235.3	1234.1	1232.8
140°	1271.1	1270.7	1270.1	1269.6	1270.1	1270.7	1271.1	1271.7	1271.4	1270.3	1269.3
142.5°	1305.0	1304.2	1303.5	1302.7	1303.5	1304.2	1305.0	1305.7	1305.6	1304.8	1303.9
145°	1353.7	1353.7	1353.7	1353.7	1353.7	1353.7	1353.7	1353.7	1353.4	1352.9	1352.3
147.5°	1395.2	1394.0	1392.7	1391.5	1392.7	1394.0	1395.2	1396.4	1396.8	1396.2	1395.7
150°	1422.4	1421.6	1420.8	1420.0	1420.8	1421.6	1422.4	1423.2	1423.2	1422.8	1422.2
152.5°	1446.4	1445.1	1443.9	1442.7	1443.9	1445.1	1446.4	1447.6	1447.7	1446.8	1445.8
155°	1479.2	1477.6	1476.0	1474.5	1476.0	1477.6	1479.2	1480.7	1480.9	1479.6	1478.3
157.5°	1507.4	1505.3	1503.2	1501.2	1503.2	1505.3	1507.4	1509.4	1509.7	1508.1	1506.5
160°	1523.8	1521.9	1520.1	1518.3	1520.1	1521.9	1523.8	1525.7	1525.7	1524.2	1522.7
162.5°	1539.3	1537.6	1536.0	1534.4	1536.0	1537.6	1539.3	1540.9	1540.8	1539.1	1537.2
165°	1559.3	1557.5	1555.6	1553.8	1555.6	1557.5	1559.3	1561.2	1561.1	1558.9	1556.8
167.5°	1574.1	1572.0	1569.9	1567.8	1569.9	1572.0	1574.1	1576.2	1576.2	1574.1	1572.0
170°	1582.6	1580.5	1578.4	1576.3	1578.4	1580.5	1582.6	1584.8	1584.8	1582.6	1580.5
172.5°	1588.0	1585.7	1583.3	1581.0	1583.3	1585.7	1588.0	1590.3	1590.4	1588.3	1586.2
175°	1594.4	1592.4	1590.2	1588.2	1590.2	1592.4	1594.4	1596.6	1596.7	1594.8	1593.0
177.5°	1596.6	1594.5	1592.4	1590.3	1592.4	1594.5	1596.6	1598.7	1598.9	1597.2	1595.5
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0



TEST NUMBER: P332406-927

CATALOG NUMBER: S123RDIW-S340D1535U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	411.5	413.6	415.7	417.6	420.5	421.8	423.7	424.5	426.7	429.9	432.6
5°	386.5	389.4	393.3	396.4	401.4	405.3	409.6	413.6	418.4	425.2	431.3
7.5°	365.3	368.1	372.8	378.7	384.1	389.7	395.5	401.0	407.8	417.6	427.3
10°	351.3	354.7	360.3	366.5	373.4	378.7	385.6	392.5	401.1	412.3	424.0
12.5°	339.1	341.7	348.2	354.1	361.9	368.7	375.3	383.6	393.2	405.2	419.2
15°	319.9	323.5	329.8	336.4	344.6	351.8	360.4	370.4	379.9	394.6	411.5
17.5°	300.5	306.1	312.7	320.1	326.1	336.1	345.5	355.7	367.3	382.9	401.6
20°	288.1	292.6	298.7	309.5	317.4	325.0	333.7	346.4	357.1	374.9	394.2
22.5°	277.6	280.8	287.7	296.7	305.9	314.7	323.5	335.6	348.9	365.7	386.7
25°	262.1	267.3	272.4	278.8	288.8	299.4	309.0	319.3	333.4	351.3	373.9
27.5°	246.9	251.6	256.7	264.6	272.2	282.0	292.1	303.9	318.9	337.9	360.9
30°	237.2	240.7	245.5	255.6	262.4	270.9	282.7	293.3	307.3	327.4	351.8
32.5°	227.1	231.6	236.9	244.7	253.2	261.2	272.0	283.4	297.7	317.5	342.5
35°	212.8	218.2	223.5	229.3	237.7	246.1	255.1	267.6	282.2	301.4	325.9
37.5°	199.6	203.9	208.3	215.4	223.4	231.3	239.8	252.2	265.9	286.6	309.1
40°	191.2	195.1	198.4	205.8	213.6	222.0	230.4	241.2	256.0	275.4	297.1
42.5°	182.0	185.6	190.1	196.2	204.5	211.7	220.0	230.3	244.2	263.9	283.0
45°	168.3	172.4	176.3	182.0	190.3	197.3	204.7	214.4	228.7	244.9	261.9
47.5°	154.0	158.1	162.6	168.1	175.3	182.4	189.8	198.4	211.4	227.4	238.8
50°	144.9	148.2	152.7	158.2	164.9	172.4	179.0	188.5	200.8	213.3	223.3
52.5°	135.5	138.5	143.5	149.3	155.5	162.1	169.1	177.2	188.4	200.2	208.1
55°	120.7	124.4	128.7	134.4	140.5	146.0	152.8	161.1	170.0	178.9	184.2
57.5°	106.9	110.0	113.6	119.5	124.8	131.3	137.5	143.9	152.2	158.8	162.3
60°	96.9	99.7	104.3	109.5	114.4	120.2	127.1	133.6	139.9	145.3	148.0
62.5°	87.5	90.6	94.7	99.4	104.8	110.3	116.4	121.8	127.4	132.0	133.9
65°	75.1	77.7	80.6	85.1	89.5	95.1	99.8	105.4	109.5	112.0	113.7
67.5°	63.9	65.6	67.8	70.8	75.2	80.0	84.6	89.0	92.4	94.1	95.6
70°	56.6	57.8	59.4	62.3	65.7	69.9	74.8	77.9	80.8	82.3	83.8
72.5°	49.4	50.9	52.4	54.7	57.4	60.5	64.0	67.8	69.5	71.2	72.1
75°	37.5	39.5	41.5	43.0	44.8	47.2	50.4	52.8	53.7	55.2	55.4
77.5°	28.3	28.8	30.2	32.0	33.6	35.3	37.3	39.5	39.9	40.6	41.2
80°	23.3	23.3	23.3	24.4	26.2	27.5	29.3	30.4	31.2	31.4	31.5
82.5°	18.7	18.7	18.5	18.8	19.4	20.1	21.8	23.1	23.7	23.5	23.1
85°	12.2	11.8	11.8	11.6	11.8	11.4	11.2	12.0	13.1	13.1	12.8
87.5°	10.9	10.5	10.0	9.2	8.3	7.5	6.5	6.1	5.5	5.6	5.0
90°	29.5	28.4	25.0	21.5	18.1	14.7	11.7	9.1	6.4	3.8	1.2
92.5°	32.0	30.3	27.7	25.2	22.6	20.0	19.1	19.8	20.5	21.3	22.0
95°	38.6	36.7	33.8	30.9	28.0	25.1	29.1	39.8	50.7	61.5	72.2
97.5°	40.2	38.1	57.1	76.0	95.0	113.9	125.8	130.6	135.5	140.4	145.2
100°	41.2	39.1	80.2	121.2	162.2	203.3	221.2	215.9	210.6	205.4	200.2
102.5°	71.4	78.0	122.8	167.6	212.5	257.3	277.8	274.0	270.3	266.5	262.7
105°	212.8	259.4	283.0	306.7	330.4	354.1	364.5	361.6	358.7	355.8	352.9
107.5°	441.2	475.4	471.7	467.9	464.1	460.4	457.4	455.1	452.7	450.4	448.1
110°	525.5	534.1	531.2	528.3	525.5	522.5	520.1	517.9	515.8	513.7	511.6



TEST NUMBER: P332406-927

CATALOG NUMBER: S123RDIW-S340D1535U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	594.0	593.8	590.9	588.0	585.1	582.3	579.8	578.0	576.1	574.2	572.3
115°	682.4	679.8	677.4	675.0	672.7	670.3	668.4	666.8	665.2	663.6	662.0
117.5°	765.2	763.2	761.9	760.7	759.5	758.4	756.8	754.8	752.8	750.9	748.9
120°	819.3	817.1	816.3	815.6	814.8	814.0	812.5	810.1	807.7	805.3	803.0
122.5°	872.7	871.2	870.1	869.2	868.2	867.2	865.7	863.7	861.8	859.8	857.9
125°	948.0	947.5	946.4	945.3	944.3	943.3	941.7	939.5	937.5	935.3	933.2
127.5°	1022.2	1021.4	1020.1	1018.8	1017.6	1016.3	1014.6	1012.5	1010.4	1008.3	1006.2
130°	1066.9	1065.9	1064.9	1063.7	1062.7	1061.7	1060.1	1058.0	1055.9	1053.8	1051.6
132.5°	1109.5	1108.5	1107.6	1106.8	1106.0	1105.2	1103.7	1101.5	1099.5	1097.3	1095.3
135°	1174.4	1173.6	1172.6	1171.6	1170.4	1169.4	1168.2	1166.6	1165.0	1163.4	1161.8
137.5°	1231.5	1230.3	1229.7	1229.1	1228.5	1228.0	1226.6	1224.6	1222.7	1220.7	1218.6
140°	1268.3	1267.2	1266.4	1265.6	1264.8	1264.0	1262.9	1261.3	1259.7	1258.1	1256.6
142.5°	1303.1	1302.3	1301.5	1300.7	1299.9	1299.1	1297.9	1296.3	1294.7	1293.2	1291.6
145°	1351.8	1351.3	1350.8	1350.2	1349.7	1349.2	1348.0	1346.2	1344.3	1342.4	1340.6
147.5°	1395.2	1394.6	1394.1	1393.6	1393.1	1392.5	1391.6	1390.4	1389.3	1388.1	1386.8
150°	1421.7	1421.2	1420.6	1420.1	1419.6	1419.0	1418.4	1417.6	1416.8	1416.0	1415.2
152.5°	1444.9	1443.9	1443.6	1443.3	1443.0	1442.6	1442.3	1441.9	1441.5	1441.2	1440.8
155°	1476.9	1475.6	1475.4	1475.1	1474.9	1474.6	1474.7	1475.3	1475.8	1476.3	1476.8
157.5°	1504.9	1503.3	1503.6	1503.9	1504.1	1504.4	1504.6	1504.6	1504.7	1504.8	1504.8
160°	1521.1	1519.5	1519.7	1520.0	1520.3	1520.5	1520.8	1521.1	1521.3	1521.5	1521.9
162.5°	1535.5	1533.7	1533.9	1534.2	1534.5	1534.7	1535.2	1535.9	1536.6	1537.2	1537.9
165°	1554.7	1552.6	1552.9	1553.2	1553.4	1553.7	1554.2	1555.0	1555.8	1556.6	1557.4
167.5°	1569.9	1567.8	1567.8	1567.8	1567.8	1567.8	1568.3	1569.4	1570.4	1571.5	1572.5
170°	1578.4	1576.3	1576.3	1576.3	1576.3	1576.3	1576.8	1577.9	1578.9	1580.0	1581.0
172.5°	1584.1	1582.0	1581.8	1581.6	1581.4	1581.1	1581.7	1582.9	1584.2	1585.5	1586.7
175°	1591.2	1589.4	1589.0	1588.8	1588.6	1588.2	1588.8	1590.1	1591.4	1592.8	1594.0
177.5°	1593.9	1592.2	1592.0	1591.7	1591.6	1591.3	1591.7	1592.8	1593.9	1594.9	1595.9
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0



TEST NUMBER: P332406-927

CATALOG NUMBER: S123RDIW-S340D1535U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	433.5	435.1	437.2	440.3	442.7	444.7	445.1	445.8	447.3	449.7	451.6
5°	436.3	440.5	447.3	454.0	461.2	467.1	472.7	476.6	480.2	488.0	494.2
7.5°	435.4	444.9	455.6	467.5	479.6	491.2	502.1	511.8	521.5	532.8	545.7
10°	434.8	445.9	460.3	475.6	492.4	508.8	524.7	537.1	551.4	564.4	580.8
12.5°	432.1	448.0	465.2	484.7	505.4	524.3	545.3	562.3	578.8	597.5	616.6
15°	428.3	447.7	469.5	495.5	527.0	549.8	571.2	600.9	621.2	641.5	668.8
17.5°	421.7	445.4	472.5	506.4	532.5	563.3	595.5	619.0	646.3	674.9	699.7
20°	416.4	443.9	474.4	507.6	541.0	574.3	605.5	633.6	661.9	694.9	715.2
22.5°	411.1	438.2	469.9	505.2	541.1	576.3	611.6	644.5	676.3	709.6	735.5
25°	399.7	432.1	466.4	502.4	537.8	576.6	618.6	655.4	694.7	729.0	753.6
27.5°	388.3	418.0	452.1	488.6	528.0	573.8	623.3	665.0	704.4	729.0	736.7
30°	378.0	409.3	440.8	477.8	520.5	571.6	624.2	672.0	704.3	715.0	707.0
32.5°	367.5	395.9	427.0	465.0	510.2	566.1	625.3	667.9	687.3	679.1	646.8
35°	349.0	374.6	404.7	442.8	494.8	563.1	620.5	649.3	644.5	598.3	537.4
37.5°	329.2	350.1	378.0	417.7	478.8	551.1	599.5	603.8	562.2	491.4	421.0
40°	313.5	332.4	361.0	402.5	466.4	539.3	578.5	561.3	496.9	418.0	359.3
42.5°	298.3	314.3	341.8	386.6	454.6	523.2	547.0	509.6	435.3	360.8	307.4
45°	272.6	287.6	315.2	361.2	430.4	492.4	489.3	424.3	349.9	289.9	245.7
47.5°	248.2	261.3	287.2	334.1	402.0	446.2	416.9	347.8	284.7	236.5	204.9
50°	230.9	243.8	269.7	316.0	379.3	411.5	369.7	303.1	245.3	205.4	180.3
52.5°	214.4	227.0	250.6	295.7	351.8	371.1	326.1	264.4	216.2	181.8	160.3
55°	191.2	200.8	222.0	265.2	307.1	311.6	265.9	214.3	174.6	150.6	135.9
57.5°	167.6	175.9	196.9	231.2	260.6	258.3	215.2	170.4	143.7	125.9	115.2
60°	152.3	160.4	178.9	208.3	230.5	222.8	183.1	147.1	124.2	111.1	102.6
62.5°	137.9	144.3	161.6	183.2	199.1	190.3	156.5	126.7	108.5	97.5	90.8
65°	117.2	122.4	136.2	147.5	156.3	147.8	119.8	99.1	86.0	78.3	73.7
67.5°	97.5	100.8	109.5	113.6	119.9	110.5	90.1	76.2	68.8	62.3	59.0
70°	85.1	87.5	92.1	95.5	97.0	87.5	72.3	62.2	55.9	51.3	49.3
72.5°	72.6	74.8	75.7	78.4	77.6	68.6	58.1	50.1	45.6	42.5	39.8
75°	55.5	56.5	55.5	54.4	52.0	45.8	38.6	34.5	31.2	29.7	28.8
77.5°	40.5	40.2	39.0	37.2	33.1	29.2	25.3	23.9	22.5	21.7	21.4
80°	31.2	30.4	29.3	26.5	23.1	20.3	19.4	18.5	17.9	17.0	16.8
82.5°	23.2	22.7	20.9	18.6	16.2	14.8	14.1	13.7	13.2	12.7	12.7
85°	12.4	11.8	9.7	8.5	8.2	7.8	7.6	7.6	6.8	6.7	6.7
87.5°	4.8	4.4	4.8	4.8	5.5	5.9	6.7	7.1	7.6	8.0	7.8
90°	3.8	6.4	9.1	11.7	14.7	18.1	21.5	25.0	28.4	29.5	30.5
92.5°	21.3	20.5	19.8	19.1	20.0	22.6	25.2	27.7	30.3	32.0	33.7
95°	61.5	50.7	39.8	29.1	25.1	28.0	30.9	33.8	36.7	38.6	40.4
97.5°	140.4	135.5	130.6	125.8	113.9	95.0	76.0	57.1	38.1	40.2	42.4
100°	205.4	210.6	215.9	221.2	203.3	162.2	121.2	80.2	39.1	41.2	43.3
102.5°	266.5	270.3	274.0	277.8	257.3	212.5	167.6	122.8	78.0	71.4	64.9
105°	355.8	358.7	361.6	364.5	354.1	330.4	306.7	283.0	259.4	212.8	166.2
107.5°	450.4	452.7	455.1	457.4	460.4	464.1	467.9	471.7	475.4	441.2	407.0
110°	513.7	515.8	517.9	520.1	522.5	525.5	528.3	531.2	534.1	525.5	516.7



TEST NUMBER: P332406-927

CATALOG NUMBER: S123RDIW-S340D1535U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	574.2	576.1	578.0	579.8	582.3	585.1	588.0	590.9	593.8	594.0	594.1
115°	663.6	665.2	666.8	668.4	670.3	672.7	675.0	677.4	679.8	682.4	685.1
117.5°	750.9	752.8	754.8	756.8	758.4	759.5	760.7	761.9	763.2	765.2	767.4
120°	805.3	807.7	810.1	812.5	814.0	814.8	815.6	816.3	817.1	819.3	821.4
122.5°	859.8	861.8	863.7	865.7	867.2	868.2	869.2	870.1	871.2	872.7	874.1
125°	935.3	937.5	939.5	941.7	943.3	944.3	945.3	946.4	947.5	948.0	948.5
127.5°	1008.3	1010.4	1012.5	1014.6	1016.3	1017.6	1018.8	1020.1	1021.4	1022.2	1023.0
130°	1053.8	1055.9	1058.0	1060.1	1061.7	1062.7	1063.7	1064.9	1065.9	1066.9	1067.9
132.5°	1097.3	1099.5	1101.5	1103.7	1105.2	1106.0	1106.8	1107.6	1108.5	1109.5	1110.6
135°	1163.4	1165.0	1166.6	1168.2	1169.4	1170.4	1171.6	1172.6	1173.6	1174.4	1175.2
137.5°	1220.7	1222.7	1224.6	1226.6	1228.0	1228.5	1229.1	1229.7	1230.3	1231.5	1232.8
140°	1258.1	1259.7	1261.3	1262.9	1264.0	1264.8	1265.6	1266.4	1267.2	1268.3	1269.3
142.5°	1293.2	1294.7	1296.3	1297.9	1299.1	1299.9	1300.7	1301.5	1302.3	1303.1	1303.9
145°	1342.4	1344.3	1346.2	1348.0	1349.2	1349.7	1350.2	1350.8	1351.3	1351.8	1352.3
147.5°	1388.1	1389.3	1390.4	1391.6	1392.5	1393.1	1393.6	1394.1	1394.6	1395.2	1395.7
150°	1416.0	1416.8	1417.6	1418.4	1419.0	1419.6	1420.1	1420.6	1421.2	1421.7	1422.2
152.5°	1441.2	1441.5	1441.9	1442.3	1442.6	1443.0	1443.3	1443.6	1443.9	1444.9	1445.8
155°	1476.3	1475.8	1475.3	1474.7	1474.6	1474.9	1475.1	1475.4	1475.6	1476.9	1478.3
157.5°	1504.8	1504.7	1504.6	1504.6	1504.4	1504.1	1503.9	1503.6	1503.3	1504.9	1506.5
160°	1521.5	1521.3	1521.1	1520.8	1520.5	1520.3	1520.0	1519.7	1519.5	1521.1	1522.7
162.5°	1537.2	1536.6	1535.9	1535.2	1534.7	1534.5	1534.2	1533.9	1533.7	1535.5	1537.2
165°	1556.6	1555.8	1555.0	1554.2	1553.7	1553.4	1553.2	1552.9	1552.6	1554.7	1556.8
167.5°	1571.5	1570.4	1569.4	1568.3	1567.8	1567.8	1567.8	1567.8	1567.8	1569.9	1572.0
170°	1580.0	1578.9	1577.9	1576.8	1576.3	1576.3	1576.3	1576.3	1576.3	1578.4	1580.5
172.5°	1585.5	1584.2	1582.9	1581.7	1581.1	1581.4	1581.6	1581.8	1582.0	1584.1	1586.2
175°	1592.8	1591.4	1590.1	1588.8	1588.2	1588.6	1588.8	1589.0	1589.4	1591.2	1593.0
177.5°	1594.9	1593.9	1592.8	1591.7	1591.3	1591.6	1591.7	1592.0	1592.2	1593.9	1595.5
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0



TEST NUMBER: P332406-927

CATALOG NUMBER: S123RDIW-S340D1535U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	454.8	454.8	455.3	457.6	457.9	459.8	459.2
5°	499.8	503.3	504.6	510.2	513.4	514.9	512.0
7.5°	554.8	564.7	569.4	575.3	580.4	581.9	577.9
10°	595.0	605.4	614.0	619.4	624.4	627.7	631.9
12.5°	633.8	646.6	654.8	662.3	667.5	671.7	672.4
15°	676.0	695.2	709.8	720.6	725.9	728.6	727.5
17.5°	718.6	736.4	746.8	757.7	765.1	765.5	765.7
20°	742.7	760.0	772.1	780.1	788.5	788.1	790.0
22.5°	758.8	772.5	781.6	787.5	790.4	788.9	789.3
25°	766.3	770.4	768.7	759.3	756.9	748.2	749.7
27.5°	727.5	708.3	688.4	662.9	642.7	626.6	627.4
30°	674.8	640.8	602.1	569.6	540.4	532.3	514.9
32.5°	601.1	550.2	504.8	474.4	449.5	442.7	427.5
35°	476.2	426.7	380.0	352.0	340.9	325.3	325.2
37.5°	370.1	326.5	301.9	280.8	269.8	260.4	259.5
40°	311.3	277.4	258.7	243.6	232.7	225.7	224.0
42.5°	270.3	242.9	225.4	216.0	207.6	204.0	201.3
45°	220.7	202.2	190.1	181.6	177.8	175.0	173.5
47.5°	184.7	172.3	164.0	158.3	155.2	152.3	153.0
50°	165.0	154.9	148.8	143.4	141.0	138.9	139.2
52.5°	149.2	140.1	135.1	131.3	128.3	126.8	126.2
55°	126.6	120.9	115.9	113.1	111.5	109.5	108.9
57.5°	108.0	103.5	99.5	96.4	95.9	94.0	94.3
60°	95.6	91.9	88.6	86.9	85.6	84.0	84.5
62.5°	85.4	82.3	79.3	78.0	76.6	75.4	75.7
65°	69.9	67.0	65.1	64.4	63.8	63.3	62.7
67.5°	55.8	53.9	52.8	51.2	50.1	49.9	49.4
70°	46.9	44.4	42.5	40.4	39.8	39.7	39.8
72.5°	37.5	36.0	35.5	34.5	34.4	33.9	34.2
75°	28.2	27.6	27.3	26.5	26.5	26.5	26.5
77.5°	20.8	20.5	20.3	20.1	20.0	19.6	19.6
80°	16.2	16.1	15.7	15.7	15.5	15.7	15.5
82.5°	12.3	12.2	11.9	11.9	11.6	11.6	11.6
85°	6.3	6.1	6.5	6.1	6.3	5.9	6.3
87.5°	8.1	8.3	8.3	8.4	8.4	8.8	8.6
90°	31.6	32.6	33.4	34.0	34.5	35.0	35.5
92.5°	35.4	37.1	38.0	38.3	38.7	39.0	39.3
95°	42.2	44.0	45.0	45.0	45.0	45.0	45.0
97.5°	44.4	46.6	47.8	48.0	48.2	48.6	48.8
100°	45.4	47.5	48.7	49.0	49.2	49.5	49.7
102.5°	58.4	51.8	48.8	49.3	49.7	50.2	50.7
105°	119.6	73.0	50.0	50.5	51.1	51.6	52.1
107.5°	372.9	338.7	304.1	269.0	233.9	198.8	163.7
110°	508.0	499.4	476.2	438.6	400.9	363.3	325.7



TEST NUMBER: P332406-927

CATALOG NUMBER: S123RDIW-S340D1535U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	594.3	594.5	590.6	582.6	574.6	566.7	558.7
115°	687.7	690.3	692.1	693.2	694.3	695.3	696.4
117.5°	769.4	771.6	772.8	772.9	773.2	773.4	773.6
120°	823.5	825.6	826.6	826.6	826.6	826.6	826.6
122.5°	875.6	877.1	877.9	878.1	878.3	878.5	878.8
125°	949.0	949.5	950.1	950.6	951.1	951.6	952.2
127.5°	1023.9	1024.7	1024.8	1024.4	1023.8	1023.3	1022.8
130°	1069.1	1070.1	1070.3	1069.8	1069.3	1068.7	1068.3
132.5°	1111.7	1112.7	1112.9	1112.1	1111.4	1110.6	1109.9
135°	1176.0	1176.8	1176.8	1176.0	1175.2	1174.4	1173.6
137.5°	1234.1	1235.3	1235.6	1235.2	1234.6	1234.1	1233.6
140°	1270.3	1271.4	1271.7	1271.1	1270.7	1270.1	1269.6
142.5°	1304.8	1305.6	1305.7	1305.0	1304.2	1303.5	1302.7
145°	1352.9	1353.4	1353.7	1353.7	1353.7	1353.7	1353.7
147.5°	1396.2	1396.8	1396.4	1395.2	1394.0	1392.7	1391.5
150°	1422.8	1423.2	1423.2	1422.4	1421.6	1420.8	1420.0
152.5°	1446.8	1447.7	1447.6	1446.4	1445.1	1443.9	1442.7
155°	1479.6	1480.9	1480.7	1479.2	1477.6	1476.0	1474.5
157.5°	1508.1	1509.7	1509.4	1507.4	1505.3	1503.2	1501.2
160°	1524.2	1525.7	1525.7	1523.8	1521.9	1520.1	1518.3
162.5°	1539.1	1540.8	1540.9	1539.3	1537.6	1536.0	1534.4
165°	1558.9	1561.1	1561.2	1559.3	1557.5	1555.6	1553.8
167.5°	1574.1	1576.2	1576.2	1574.1	1572.0	1569.9	1567.8
170°	1582.6	1584.8	1584.8	1582.6	1580.5	1578.4	1576.3
172.5°	1588.3	1590.4	1590.3	1588.0	1585.7	1583.3	1581.0
175°	1594.8	1596.7	1596.6	1594.4	1592.4	1590.2	1588.2
177.5°	1597.2	1598.9	1598.7	1596.6	1594.5	1592.4	1590.3
180°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0

(END OF REPORT)