

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: P332403

Luminaire Tested: **S123RDIW-S340D1320U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332403  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123RDIW-S340D1320U835-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1320 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

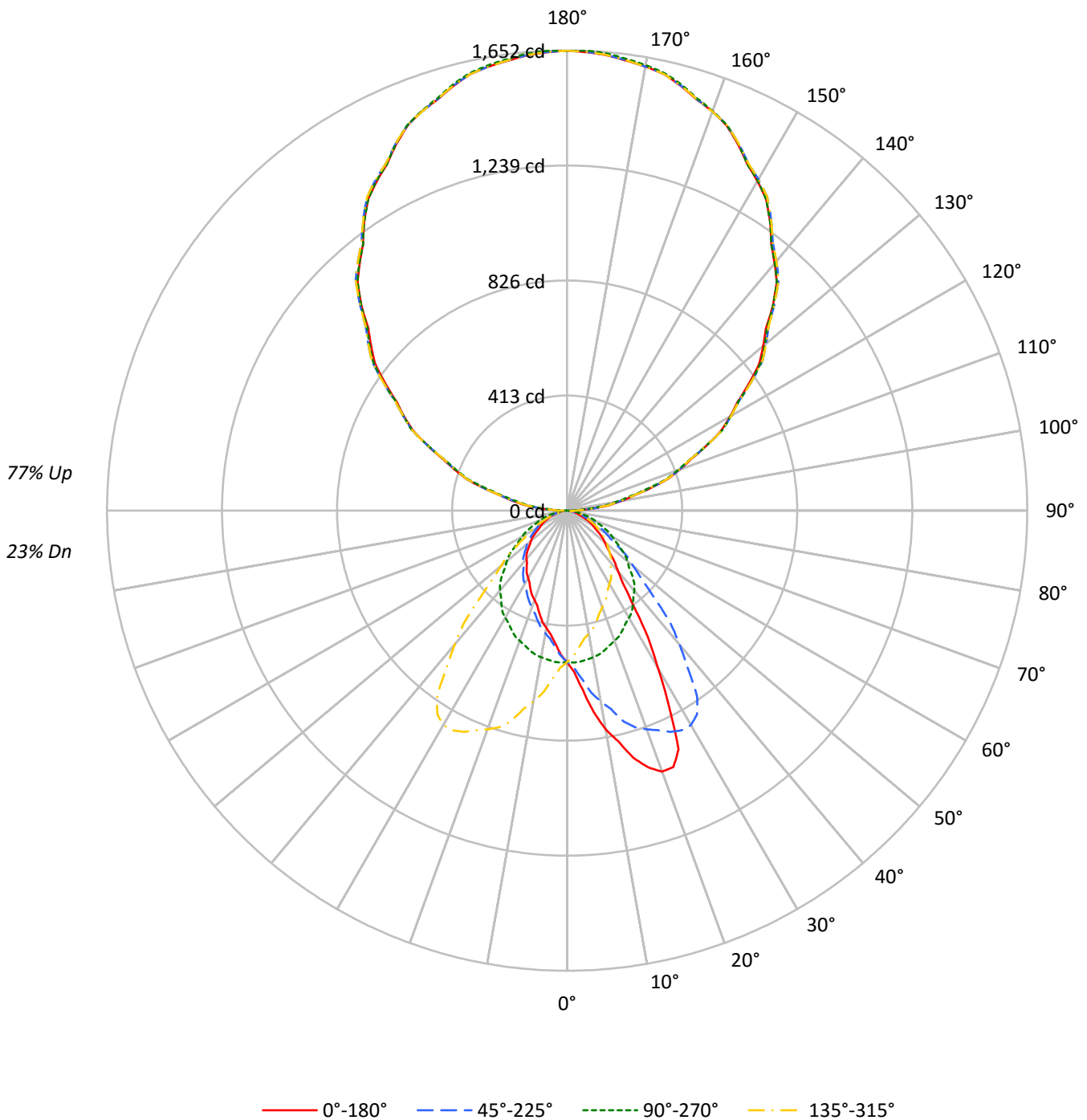
Lumens per Lamp: N/A  
Luminaire Lumens: 5934.4 lumens  
Efficiency: N/A  
Efficacy: 127.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 46.6  
Input Voltage (V): 120  
Input Current (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





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	50	30	10	50	30	10	0														
RCR																																						
0	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31	23																				
1	92	88	84	81	82	78	75	73	60	58	56	43	42	41	28	27	27	20																				
2	84	77	71	67	74	69	64	60	53	50	47	38	36	35	25	24	23	17																				
3	77	68	61	56	68	61	55	50	47	43	40	34	32	30	22	21	20	15																				
4	70	60	53	47	62	54	47	43	42	37	34	30	28	25	20	19	17	13																				
5	64	53	46	40	57	48	41	37	37	33	29	27	24	22	18	16	15	11																				
6	59	48	40	35	52	43	36	32	33	29	25	25	22	19	17	15	13	10																				
7	55	43	36	30	48	39	32	28	30	26	22	22	19	17	15	13	12	9																				
8	51	39	32	27	45	35	29	24	28	23	20	21	17	15	14	12	11	8																				
9	47	35	28	24	42	32	26	22	25	21	18	19	16	14	13	11	10	7																				
10	44	32	26	21	39	29	23	19	23	19	16	17	14	12	12	10	9	7																				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	5858	5858	5858	5858
5°	6983	5883	5181	5883
10°	8719	5850	4680	5850
15°	10234	5789	4268	5789
20°	11423	5700	3918	5700
25°	11240	5606	3702	5606
30°	8079	5520	3480	5520
35°	5394	5406	3336	5406
40°	3974	5271	3188	5271
45°	3334	5033	3043	5033
50°	2942	4721	2840	4721
55°	2580	4363	2562	4363
60°	2297	4021	2347	4021
65°	2017	3655	2183	3655
70°	1583	3330	1995	3330
75°	1393	2907	1822	2907
80°	1215	2467	1791	2467
85°	976	1988	1902	1988



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.5	0.9
10°-20°	167.2	2.8
20°-30°	262.7	4.4
30°-40°	274.1	4.6
40°-50°	234.5	4.0
50°-60°	178.8	3.0
60°-70°	114.6	1.9
70°-80°	55.1	0.9
80°-90°	19.5	0.3
90°-100°	107.6	1.8
100°-110°	321.9	5.4
110°-120°	547.5	9.2
120°-130°	720.2	12.1
130°-140°	809.5	13.6
140°-150°	795.7	13.4
150°-160°	669.9	11.3
160°-170°	445.9	7.5
170°-180°	156.2	2.6
0°-30°	483.4	8.1
0°-40°	757.5	12.8
0°-60°	1170.8	19.7
0°-90°	1359.9	22.9
90°-120°	977.1	16.5
90°-150°	3302.5	55.7
90°-180°	4574.0	77.1
0°-180°	5934.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	544	544	544	544	544	
5°	646	544	480	544	646	67
15°	918	520	383	520	918	260
25°	946	472	312	472	946	407
35°	410	411	254	411	410	269
45°	219	331	200	331	219	172
55°	138	232	136	232	138	124
65°	79	144	86	144	79	78
75°	34	70	44	70	34	36
85°	8	16	15	16	8	10
90°	39	1	39	1	39	19
95°	101	76	101	76	101	104
105°	309	292	309	292	309	328
115°	552	551	552	551	552	547
125°	798	807	798	807	798	713
135°	1045	1047	1045	1047	1045	804
145°	1270	1270	1270	1270	1270	793
155°	1451	1454	1451	1454	1451	668
165°	1578	1584	1578	1584	1578	445
175°	1641	1647	1641	1647	1641	156
180°	1651	1651	1651	1651	1651	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2
2.5°	579.7	580.4	578.0	577.6	574.8	574.1	574.1	570.1	567.7	564.6	562.7
5°	646.3	650.0	648.1	644.0	637.0	635.3	630.9	623.9	616.0	606.2	601.6
7.5°	729.5	734.6	732.6	726.2	718.8	712.9	700.4	688.8	672.6	658.3	646.1
10°	797.7	792.4	788.2	781.9	775.1	764.2	751.1	733.2	712.5	696.1	678.0
12.5°	848.8	847.9	842.6	836.1	826.6	816.2	800.1	778.3	754.2	730.6	709.8
15°	918.4	919.8	916.3	909.6	896.0	877.6	853.4	844.3	809.8	784.2	758.6
17.5°	966.6	966.3	965.8	956.5	942.7	929.6	907.1	883.2	852.0	815.9	781.4
20°	997.2	994.8	995.3	984.8	974.6	959.4	937.5	902.8	877.2	835.5	799.8
22.5°	996.4	995.9	997.7	994.1	986.7	975.1	957.8	928.5	895.8	853.7	813.6
25°	946.4	944.5	955.4	958.5	970.4	972.5	967.3	951.3	920.3	876.9	827.3
27.5°	792.0	791.0	811.3	836.8	869.0	894.1	918.3	930.0	920.3	889.2	839.5
30°	650.0	671.9	682.2	719.0	760.0	808.9	851.8	892.5	902.6	889.0	848.3
32.5°	539.7	558.8	567.4	598.9	637.2	694.5	758.8	816.5	857.3	867.6	843.1
35°	410.5	410.7	430.3	444.3	479.7	538.6	601.1	678.4	755.3	813.6	819.6
37.5°	327.6	328.7	340.6	354.5	381.1	412.2	467.2	531.5	620.3	709.7	762.2
40°	282.8	284.9	293.8	307.5	326.6	350.2	393.0	453.6	527.7	627.2	708.5
42.5°	254.1	257.5	262.1	272.7	284.5	306.6	341.2	388.0	455.4	549.5	643.3
45°	219.0	220.9	224.4	229.3	240.0	255.3	278.6	310.1	366.0	441.7	535.6
47.5°	193.2	192.2	195.9	199.8	207.0	217.5	233.1	258.7	298.6	359.4	439.0
50°	175.7	175.4	178.0	181.0	187.8	195.5	208.3	227.6	259.3	309.6	382.6
52.5°	159.3	160.1	162.0	165.7	170.6	176.8	188.3	202.3	229.5	272.9	333.7
55°	137.5	138.2	140.7	142.8	146.3	152.6	159.8	171.5	190.1	220.4	270.5
57.5°	119.0	118.7	121.1	121.7	125.6	130.7	136.3	145.4	158.9	181.4	215.1
60°	106.7	106.0	108.1	109.7	111.8	116.0	120.7	129.5	140.3	156.8	185.7
62.5°	95.5	95.2	96.7	98.4	100.1	103.9	107.8	114.6	123.1	137.0	160.0
65°	79.2	79.9	80.6	81.3	82.2	84.6	88.3	93.0	98.8	108.6	125.1
67.5°	62.3	63.0	63.2	64.6	66.6	68.1	70.4	74.5	78.6	86.8	96.2
70°	50.3	50.1	50.3	51.0	53.6	56.1	59.2	62.2	64.8	70.6	78.5
72.5°	43.2	42.8	43.4	43.6	44.8	45.5	47.4	50.3	53.6	57.5	63.2
75°	33.5	33.5	33.5	33.5	34.5	34.9	35.6	36.3	37.5	39.4	43.6
77.5°	24.8	24.8	25.2	25.4	25.6	25.9	26.3	27.0	27.4	28.4	30.2
80°	19.6	19.8	19.6	19.8	19.8	20.3	20.5	21.2	21.4	22.6	23.3
82.5°	14.7	14.6	14.7	15.0	15.0	15.4	15.5	16.0	16.0	16.6	17.3
85°	7.9	7.5	7.9	7.7	8.2	7.7	7.9	8.4	8.4	8.6	9.6
87.5°	9.6	9.9	9.4	9.5	9.4	9.4	9.2	8.9	9.1	8.6	8.1
90°	38.9	38.3	37.8	37.2	36.6	35.7	34.6	33.4	32.3	31.1	27.4
92.5°	52.4	52.7	53.1	53.4	53.8	53.5	52.6	51.6	50.7	49.8	47.7
95°	101.2	101.2	101.2	101.2	101.2	100.6	99.4	98.3	97.1	96.0	93.7
97.5°	155.6	155.8	155.9	156.0	156.1	155.5	154.2	152.8	151.5	150.2	148.5
100°	197.1	196.6	196.0	195.4	194.8	194.1	193.2	192.4	191.5	190.7	189.2
102.5°	239.7	239.8	239.9	240.0	240.1	239.8	238.9	238.0	237.2	236.3	234.4
105°	308.7	308.1	307.5	307.0	306.4	306.1	306.1	306.1	306.1	306.1	303.5
107.5°	380.5	380.9	381.2	381.6	381.9	381.6	380.7	379.8	378.9	377.9	376.9
110°	429.3	429.9	430.5	431.0	431.6	431.3	430.2	429.0	427.9	426.7	426.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	481.2	481.3	481.4	481.5	481.6	481.0	479.6	478.2	476.9	475.5	475.4
115°	552.5	552.8	553.1	553.4	553.7	553.7	553.4	553.1	552.8	552.5	553.1
117.5°	624.9	625.7	626.5	627.3	628.1	628.5	628.6	628.7	628.7	628.8	629.5
120°	675.7	676.3	676.9	677.5	678.0	678.5	678.8	679.0	679.3	679.6	681.1
122.5°	724.5	725.3	726.1	726.9	727.7	728.5	729.2	730.0	730.7	731.5	732.2
125°	797.6	798.8	799.9	801.1	802.3	803.4	804.6	805.7	806.9	808.0	808.6
127.5°	870.5	871.9	873.2	874.5	875.8	877.3	878.9	880.5	882.1	883.8	884.4
130°	918.3	920.3	922.3	924.3	926.3	927.9	929.1	930.2	931.4	932.5	933.4
132.5°	968.1	969.6	971.2	972.7	974.3	975.8	977.1	978.5	979.9	981.3	981.9
135°	1045.4	1045.9	1046.5	1047.1	1047.7	1048.5	1049.7	1050.8	1052.0	1053.1	1053.4
137.5°	1113.6	1114.7	1115.8	1116.9	1118.0	1119.1	1120.3	1121.5	1122.7	1124.0	1123.2
140°	1158.2	1160.2	1162.2	1164.3	1166.3	1167.4	1167.7	1168.0	1168.3	1168.6	1168.3
142.5°	1203.9	1205.4	1207.0	1208.5	1210.1	1211.0	1211.3	1211.6	1211.9	1212.2	1211.6
145°	1269.7	1270.9	1272.0	1273.2	1274.4	1275.1	1275.4	1275.6	1275.9	1276.2	1275.4
147.5°	1328.4	1330.1	1331.8	1333.6	1335.3	1336.1	1336.1	1336.1	1336.1	1336.1	1335.3
150°	1365.7	1367.4	1369.2	1370.9	1372.6	1373.5	1373.5	1373.5	1373.5	1373.5	1372.9
152.5°	1402.0	1403.5	1405.0	1406.5	1408.0	1408.5	1408.1	1407.6	1407.2	1406.7	1406.4
155°	1451.3	1453.3	1455.4	1457.4	1459.4	1459.8	1458.7	1457.5	1456.4	1455.2	1454.9
157.5°	1496.2	1497.8	1499.4	1501.0	1502.6	1502.9	1501.6	1500.4	1499.2	1498.0	1497.8
160°	1525.2	1526.4	1527.6	1528.7	1529.9	1529.7	1528.3	1526.8	1525.4	1523.9	1523.9
162.5°	1547.0	1548.9	1550.7	1552.6	1554.4	1554.6	1553.2	1551.7	1550.3	1548.8	1548.6
165°	1578.4	1580.4	1582.5	1584.5	1586.5	1586.6	1584.9	1583.2	1581.4	1579.7	1579.7
167.5°	1605.1	1606.9	1608.7	1610.5	1612.3	1612.3	1610.5	1608.7	1606.9	1605.1	1604.9
170°	1618.6	1620.6	1622.7	1624.7	1626.7	1626.7	1624.7	1622.7	1620.6	1618.6	1618.6
172.5°	1629.0	1631.0	1633.0	1635.1	1637.1	1637.2	1635.4	1633.6	1631.8	1630.0	1630.0
175°	1640.7	1642.7	1644.7	1646.7	1648.7	1648.9	1647.2	1645.4	1643.7	1642.0	1642.0
177.5°	1646.9	1648.5	1650.1	1651.7	1653.4	1653.5	1652.1	1650.7	1649.3	1647.9	1647.9
180°	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2
2.5°	561.9	561.4	558.8	555.8	551.9	549.3	547.2	546.1	542.7	538.6	535.9
5°	596.7	589.7	582.2	573.1	564.7	556.1	550.8	544.5	536.8	528.2	522.1
7.5°	633.8	620.1	605.4	590.1	575.1	561.6	549.6	539.4	527.2	514.8	506.2
10°	662.4	642.3	621.6	600.4	581.1	562.9	548.9	535.2	520.5	506.3	495.5
12.5°	688.3	661.9	638.0	611.9	587.2	565.5	545.4	529.2	511.5	496.4	484.2
15°	721.1	694.0	665.2	625.5	592.7	565.2	540.7	519.5	498.1	479.5	467.6
17.5°	751.7	711.1	672.2	639.2	596.5	562.2	532.3	507.0	483.4	463.7	449.0
20°	764.4	725.0	682.9	640.7	598.8	560.3	525.6	497.6	473.2	450.8	437.3
22.5°	772.0	727.5	683.0	637.7	593.2	553.2	518.9	488.1	461.6	440.4	423.7
25°	780.9	727.8	678.9	634.2	588.7	545.4	504.6	472.0	443.4	420.8	403.1
27.5°	786.8	724.3	666.5	616.8	570.7	527.6	490.2	455.6	426.5	402.6	383.6
30°	787.9	721.5	657.0	603.2	556.4	516.7	477.1	444.1	413.3	387.9	370.2
32.5°	789.4	714.6	644.1	587.0	539.0	499.8	463.9	432.3	400.8	375.8	357.7
35°	783.3	710.8	624.6	558.9	510.9	472.9	440.6	411.4	380.5	356.2	337.8
37.5°	756.8	695.7	604.4	527.3	477.1	442.0	415.6	390.2	361.8	335.6	318.3
40°	730.2	680.8	588.7	508.1	455.7	419.6	395.8	375.1	347.6	323.1	304.5
42.5°	690.5	660.4	573.8	488.0	431.5	396.7	376.6	357.2	333.1	308.2	290.7
45°	617.6	621.6	543.3	455.9	397.9	363.0	344.1	330.6	309.2	288.7	270.7
47.5°	526.3	563.3	507.5	421.8	362.6	329.8	313.3	301.5	287.0	266.9	250.5
50°	466.7	519.5	478.8	398.9	340.4	307.8	291.5	281.9	269.3	253.5	237.9
52.5°	411.7	468.5	444.1	373.3	316.3	286.5	270.6	262.7	252.7	237.8	223.7
55°	335.7	393.3	387.7	334.8	280.3	253.5	241.4	232.5	225.8	214.6	203.4
57.5°	271.6	326.1	329.0	291.9	248.5	222.0	211.6	204.9	200.5	192.1	181.7
60°	231.1	281.2	291.0	263.0	225.8	202.5	192.2	186.8	183.4	176.6	168.7
62.5°	197.6	240.2	251.3	231.2	204.0	182.1	174.1	169.0	166.6	160.8	153.8
65°	151.2	186.6	197.3	186.2	171.9	154.5	147.9	143.5	141.4	138.2	133.0
67.5°	113.7	139.5	151.3	143.4	138.2	127.2	123.1	120.7	118.8	116.6	112.3
70°	91.3	110.4	122.5	120.5	116.3	110.4	107.4	105.8	103.9	102.0	98.3
72.5°	73.4	86.6	97.9	99.0	95.6	94.4	91.7	91.0	89.9	87.7	85.6
75°	48.7	57.8	65.7	68.7	70.1	71.3	70.1	69.9	69.7	67.8	66.6
77.5°	31.9	36.8	41.8	47.0	49.2	50.7	51.1	52.0	51.3	50.4	49.8
80°	24.5	25.6	29.1	33.5	37.0	38.4	39.4	39.8	39.6	39.4	38.4
82.5°	17.8	18.7	20.4	23.5	26.4	28.7	29.3	29.2	29.7	29.9	29.1
85°	9.6	9.8	10.3	10.7	12.3	14.9	15.6	16.1	16.5	16.5	15.1
87.5°	7.7	6.8	6.4	5.7	5.7	5.3	5.9	6.2	7.0	6.8	7.4
90°	23.6	19.9	16.1	12.8	9.9	7.1	4.2	1.3	4.2	7.1	9.9
92.5°	45.5	43.4	41.3	39.2	37.3	35.3	33.3	31.4	33.3	35.3	37.3
95°	91.4	89.1	86.8	84.6	82.6	80.6	78.5	76.5	78.5	80.6	82.6
97.5°	146.8	145.2	143.5	141.9	140.4	138.9	137.4	135.9	137.4	138.9	140.4
100°	187.8	186.3	184.9	183.3	181.6	179.8	178.1	176.4	178.1	179.8	181.6
102.5°	232.5	230.6	228.7	227.2	226.2	225.2	224.1	223.1	224.1	225.2	226.2
105°	300.9	298.3	295.7	294.1	293.5	293.0	292.4	291.8	292.4	293.0	293.5
107.5°	375.9	374.8	373.8	373.1	372.8	372.4	372.1	371.7	372.1	372.4	372.8
110°	425.6	425.0	424.4	423.8	423.2	422.7	422.1	421.5	422.1	422.7	423.2





TEST NUMBER: P332403

CATALOG NUMBER: S123RDIW-S340D1320U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	475.2	475.1	475.0	474.8	474.4	474.1	473.7	473.4	473.7	474.1	474.4
115°	553.7	554.2	554.8	554.7	553.8	552.9	552.1	551.2	552.1	552.9	553.8
117.5°	630.3	631.0	631.8	631.9	631.3	630.7	630.1	629.6	630.1	630.7	631.3
120°	682.5	683.9	685.4	685.2	683.5	681.8	680.0	678.3	680.0	681.8	683.5
122.5°	733.0	733.7	734.5	734.2	733.0	731.7	730.4	729.2	730.4	731.7	733.0
125°	809.2	809.7	810.3	810.2	809.3	808.4	807.6	806.7	807.6	808.4	809.3
127.5°	885.0	885.7	886.3	885.7	883.8	882.0	880.2	878.3	880.2	882.0	883.8
130°	934.3	935.1	936.0	935.3	933.0	930.7	928.3	926.0	928.3	930.7	933.0
132.5°	982.6	983.2	983.8	983.0	980.7	978.4	976.1	973.8	976.1	978.4	980.7
135°	1053.7	1054.0	1054.3	1053.6	1051.8	1050.1	1048.4	1046.7	1048.4	1050.1	1051.8
137.5°	1122.5	1121.7	1121.0	1119.9	1118.4	1117.0	1115.5	1114.1	1115.5	1117.0	1118.4
140°	1168.0	1167.7	1167.4	1166.6	1165.1	1163.7	1162.2	1160.8	1162.2	1163.7	1165.1
142.5°	1211.1	1210.6	1210.1	1209.1	1207.7	1206.2	1204.8	1203.3	1204.8	1206.2	1207.7
145°	1274.5	1273.6	1272.8	1272.0	1271.5	1270.9	1270.3	1269.7	1270.3	1270.9	1271.5
147.5°	1334.5	1333.7	1332.9	1332.0	1331.0	1329.9	1328.9	1327.8	1328.9	1329.9	1331.0
150°	1372.3	1371.8	1371.2	1370.6	1370.0	1369.5	1368.9	1368.3	1368.9	1369.5	1370.0
152.5°	1406.0	1405.7	1405.3	1404.7	1403.9	1403.1	1402.3	1401.5	1402.3	1403.1	1403.9
155°	1454.6	1454.3	1454.1	1453.9	1453.9	1453.9	1453.9	1453.9	1453.9	1453.9	1453.9
157.5°	1497.5	1497.3	1497.1	1497.1	1497.5	1497.8	1498.2	1498.5	1498.2	1497.8	1497.5
160°	1523.9	1523.9	1523.9	1524.2	1524.8	1525.4	1526.0	1526.5	1526.0	1525.4	1524.8
162.5°	1548.4	1548.2	1547.9	1548.2	1549.0	1549.8	1550.6	1551.4	1550.6	1549.8	1549.0
165°	1579.7	1579.7	1579.7	1580.2	1581.0	1581.9	1582.7	1583.6	1582.7	1581.9	1581.0
167.5°	1604.7	1604.4	1604.2	1604.7	1605.8	1607.0	1608.1	1609.3	1608.1	1607.0	1605.8
170°	1618.6	1618.6	1618.6	1619.2	1620.4	1621.5	1622.7	1623.8	1622.7	1621.5	1620.4
172.5°	1630.0	1630.0	1630.0	1630.6	1631.8	1632.9	1634.1	1635.2	1634.1	1632.9	1631.8
175°	1642.0	1642.0	1642.0	1642.5	1643.7	1644.9	1646.0	1647.2	1646.0	1644.9	1643.7
177.5°	1647.9	1647.9	1647.9	1648.4	1649.3	1650.2	1651.2	1652.1	1651.2	1650.2	1649.3
180°	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2
2.5°	534.9	532.5	530.8	527.1	524.7	522.1	519.5	521.1	520.9	520.8	520.8
5°	517.0	511.6	506.7	500.4	496.5	491.6	487.9	487.4	488.3	485.1	483.2
7.5°	499.2	491.9	484.9	478.0	470.6	464.7	461.1	459.3	457.0	455.0	452.9
10°	486.7	478.1	471.3	462.7	454.8	447.8	443.4	440.3	438.7	437.1	434.0
12.5°	473.8	465.4	456.8	447.0	439.5	431.4	428.1	424.7	421.6	419.7	415.6
15°	455.0	444.1	435.0	424.7	416.3	408.4	403.8	397.0	396.1	393.7	389.5
17.5°	436.1	424.3	411.7	404.1	394.7	386.4	379.3	377.1	370.4	367.9	364.2
20°	421.2	410.3	400.7	390.7	377.0	369.3	363.7	360.7	355.3	352.0	349.7
22.5°	408.4	397.2	386.2	374.5	363.2	354.5	350.4	345.7	342.8	338.2	335.7
25°	390.0	377.9	364.6	352.0	343.9	337.4	330.8	326.6	322.4	320.3	315.7
27.5°	368.7	356.0	343.6	334.0	324.0	317.6	311.7	308.0	302.9	299.4	296.8
30°	356.9	342.0	331.3	322.7	309.9	303.8	299.4	294.7	291.0	287.3	284.7
32.5°	343.3	329.7	319.6	308.9	299.1	292.4	286.7	282.6	279.4	275.9	273.3
35°	322.0	310.6	300.1	289.4	282.1	275.4	268.6	265.1	262.1	258.8	256.5
37.5°	302.7	292.0	282.0	271.9	262.9	257.4	252.0	249.3	245.2	243.0	240.7
40°	290.8	280.3	269.6	259.8	250.5	246.3	241.4	237.4	233.7	232.0	229.5
42.5°	277.7	267.2	258.2	247.7	240.0	234.3	229.8	225.5	222.7	220.3	218.9
45°	258.4	249.1	240.2	229.7	222.5	217.6	212.5	208.5	206.0	204.3	201.8
47.5°	239.6	230.3	221.3	212.2	205.2	199.6	194.4	191.7	188.3	186.3	184.6
50°	226.0	217.6	208.1	199.7	192.7	187.1	182.9	179.4	176.4	173.8	172.6
52.5°	213.5	204.6	196.3	188.5	181.1	174.8	171.0	167.3	165.0	162.1	160.7
55°	192.9	184.3	177.3	169.6	162.4	157.0	152.4	149.1	146.8	143.5	141.7
57.5°	173.6	165.8	157.5	150.8	143.4	138.9	135.0	130.6	127.7	125.2	123.3
60°	160.5	151.7	144.4	138.2	131.6	125.8	122.3	118.8	115.8	113.2	111.6
62.5°	146.9	139.2	132.3	125.5	119.5	114.4	110.4	107.5	104.8	103.2	101.5
65°	126.0	120.0	113.0	107.4	101.8	98.1	94.8	92.3	90.4	89.2	87.8
67.5°	106.8	101.0	94.9	89.4	85.6	82.8	80.7	78.5	77.5	76.0	75.1
70°	94.4	88.3	82.9	78.7	75.0	72.9	71.5	69.9	69.0	67.1	66.2
72.5°	80.8	76.4	72.5	69.1	66.1	64.2	62.4	60.4	58.9	56.8	55.9
75°	63.6	59.6	56.6	54.3	52.4	49.9	47.3	45.2	44.5	43.8	43.6
77.5°	47.1	44.6	42.4	40.4	38.1	36.3	35.7	35.2	35.1	34.7	34.7
80°	37.0	34.7	33.1	30.8	29.4	29.4	29.4	28.9	29.1	29.1	29.1
82.5°	27.5	25.4	24.5	23.7	23.4	23.6	23.6	23.7	23.5	23.9	23.7
85°	14.2	14.4	14.9	14.7	14.9	14.9	15.4	15.1	15.4	14.9	15.4
87.5°	7.8	9.0	9.9	10.9	11.8	12.4	12.8	13.0	13.4	13.7	13.8
90°	12.8	16.1	19.9	23.6	27.4	31.1	32.3	33.4	34.6	35.7	36.6
92.5°	39.2	41.3	43.4	45.5	47.7	49.8	50.7	51.6	52.6	53.5	53.8
95°	84.6	86.8	89.1	91.4	93.7	96.0	97.1	98.3	99.4	100.6	101.2
97.5°	141.9	143.5	145.2	146.8	148.5	150.2	151.5	152.8	154.2	155.5	156.1
100°	183.3	184.9	186.3	187.8	189.2	190.7	191.5	192.4	193.2	194.1	194.8
102.5°	227.2	228.7	230.6	232.5	234.4	236.3	237.2	238.0	238.9	239.8	240.1
105°	294.1	295.7	298.3	300.9	303.5	306.1	306.1	306.1	306.1	306.1	306.4
107.5°	373.1	373.8	374.8	375.9	376.9	377.9	378.9	379.8	380.7	381.6	381.9
110°	423.8	424.4	425.0	425.6	426.1	426.7	427.9	429.0	430.2	431.3	431.6



TEST NUMBER: P332403

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	474.8	475.0	475.1	475.2	475.4	475.5	476.9	478.2	479.6	481.0	481.6
115°	554.7	554.8	554.2	553.7	553.1	552.5	552.8	553.1	553.4	553.7	553.7
117.5°	631.9	631.8	631.0	630.3	629.5	628.8	628.7	628.7	628.6	628.5	628.1
120°	685.2	685.4	683.9	682.5	681.1	679.6	679.3	679.0	678.8	678.5	678.0
122.5°	734.2	734.5	733.7	733.0	732.2	731.5	730.7	730.0	729.2	728.5	727.7
125°	810.2	810.3	809.7	809.2	808.6	808.0	806.9	805.7	804.6	803.4	802.3
127.5°	885.7	886.3	885.7	885.0	884.4	883.8	882.1	880.5	878.9	877.3	875.8
130°	935.3	936.0	935.1	934.3	933.4	932.5	931.4	930.2	929.1	927.9	926.3
132.5°	983.0	983.8	983.2	982.6	981.9	981.3	979.9	978.5	977.1	975.8	974.3
135°	1053.6	1054.3	1054.0	1053.7	1053.4	1053.1	1052.0	1050.8	1049.7	1048.5	1047.7
137.5°	1119.9	1121.0	1121.7	1122.5	1123.2	1124.0	1122.7	1121.5	1120.3	1119.1	1118.0
140°	1166.6	1167.4	1167.7	1168.0	1168.3	1168.6	1168.3	1168.0	1167.7	1167.4	1166.3
142.5°	1209.1	1210.1	1210.6	1211.1	1211.6	1212.2	1211.9	1211.6	1211.3	1211.0	1210.1
145°	1272.0	1272.8	1273.6	1274.5	1275.4	1276.2	1275.9	1275.6	1275.4	1275.1	1274.4
147.5°	1332.0	1332.9	1333.7	1334.5	1335.3	1336.1	1336.1	1336.1	1336.1	1336.1	1335.3
150°	1370.6	1371.2	1371.8	1372.3	1372.9	1373.5	1373.5	1373.5	1373.5	1373.5	1372.6
152.5°	1404.7	1405.3	1405.7	1406.0	1406.4	1406.7	1407.2	1407.6	1408.1	1408.5	1408.0
155°	1453.9	1454.1	1454.3	1454.6	1454.9	1455.2	1456.4	1457.5	1458.7	1459.8	1459.4
157.5°	1497.1	1497.1	1497.3	1497.5	1497.8	1498.0	1499.2	1500.4	1501.6	1502.9	1502.6
160°	1524.2	1523.9	1523.9	1523.9	1523.9	1523.9	1525.4	1526.8	1528.3	1529.7	1529.9
162.5°	1548.2	1547.9	1548.2	1548.4	1548.6	1548.8	1550.3	1551.7	1553.2	1554.6	1554.4
165°	1580.2	1579.7	1579.7	1579.7	1579.7	1579.7	1581.4	1583.2	1584.9	1586.6	1586.5
167.5°	1604.7	1604.2	1604.4	1604.7	1604.9	1605.1	1606.9	1608.7	1610.5	1612.3	1612.3
170°	1619.2	1618.6	1618.6	1618.6	1618.6	1618.6	1620.6	1622.7	1624.7	1626.7	1626.7
172.5°	1630.6	1630.0	1630.0	1630.0	1630.0	1630.0	1631.8	1633.6	1635.4	1637.2	1637.1
175°	1642.5	1642.0	1642.0	1642.0	1642.0	1642.0	1643.7	1645.4	1647.2	1648.9	1648.7
177.5°	1648.4	1647.9	1647.9	1647.9	1647.9	1647.9	1649.3	1650.7	1652.1	1653.5	1653.4
180°	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1



TEST NUMBER: P332403

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2
2.5°	518.5	518.3	518.5	517.8	518.5	518.3	518.5	520.8	520.8	520.9	521.1
5°	482.5	482.3	481.6	479.5	481.6	482.3	482.5	483.2	485.1	488.3	487.4
7.5°	451.0	450.7	448.7	448.7	448.7	450.7	451.0	452.9	455.0	457.0	459.3
10°	432.4	432.6	429.8	428.2	429.8	432.6	432.4	434.0	437.1	438.7	440.3
12.5°	414.3	413.3	411.0	409.2	411.0	413.3	414.3	415.6	419.7	421.6	424.7
15°	390.5	388.1	382.6	383.0	382.6	388.1	390.5	389.5	393.7	396.1	397.0
17.5°	362.4	360.7	360.6	357.3	360.6	360.7	362.4	364.2	367.9	370.4	377.1
20°	346.0	344.8	345.3	342.0	345.3	344.8	346.0	349.7	352.0	355.3	360.7
22.5°	333.1	331.9	330.0	329.0	330.0	331.9	333.1	335.7	338.2	342.8	345.7
25°	314.3	312.4	310.6	311.7	310.6	312.4	314.3	315.7	320.3	322.4	326.6
27.5°	295.5	294.1	292.2	292.0	292.2	294.1	295.5	296.8	299.4	302.9	308.0
30°	283.5	282.1	281.2	280.0	281.2	282.1	283.5	284.7	287.3	291.0	294.7
32.5°	271.4	271.1	269.5	269.2	269.5	271.1	271.4	273.3	275.9	279.4	282.6
35°	255.6	254.2	253.7	253.9	253.7	254.2	255.6	256.5	258.8	262.1	265.1
37.5°	240.5	238.7	237.8	237.0	237.8	238.7	240.5	240.7	243.0	245.2	249.3
40°	229.7	227.9	227.4	226.9	227.4	227.9	229.7	229.5	232.0	233.7	237.4
42.5°	217.6	216.9	216.6	215.7	216.6	216.9	217.6	218.9	220.3	222.7	225.5
45°	201.1	200.8	199.4	199.9	199.4	200.8	201.1	201.8	204.3	206.0	208.5
47.5°	183.6	182.6	181.6	182.3	181.6	182.6	183.6	184.6	186.3	188.3	191.7
50°	171.7	171.2	169.1	169.6	169.1	171.2	171.7	172.6	173.8	176.4	179.4
52.5°	159.8	158.0	157.2	156.9	157.2	158.0	159.8	160.7	162.1	165.0	167.3
55°	140.0	137.9	137.0	136.5	137.0	137.9	140.0	141.7	143.5	146.8	149.1
57.5°	120.6	120.1	119.3	119.8	119.3	120.1	120.6	123.3	125.2	127.7	130.6
60°	109.3	109.3	109.3	109.0	109.3	109.3	109.3	111.6	113.2	115.8	118.8
62.5°	100.5	99.9	99.8	100.1	99.8	99.9	100.5	101.5	103.2	104.8	107.5
65°	87.1	86.9	86.0	85.7	86.0	86.9	87.1	87.8	89.2	90.4	92.3
67.5°	74.5	73.7	73.4	73.1	73.4	73.7	74.5	75.1	76.0	77.5	78.5
70°	65.0	64.5	63.1	63.4	63.1	64.5	65.0	66.2	67.1	69.0	69.9
72.5°	54.8	54.3	54.0	53.7	54.0	54.3	54.8	55.9	56.8	58.9	60.4
75°	43.3	43.1	42.9	43.8	42.9	43.1	43.3	43.6	43.8	44.5	45.2
77.5°	34.7	34.7	34.9	34.5	34.9	34.7	34.7	34.7	34.7	35.1	35.2
80°	29.1	29.1	28.9	28.9	28.9	29.1	29.1	29.1	29.1	29.1	28.9
82.5°	23.3	23.5	23.7	23.3	23.7	23.5	23.3	23.7	23.9	23.5	23.7
85°	15.4	15.1	15.6	15.4	15.6	15.1	15.4	15.4	14.9	15.4	15.1
87.5°	14.3	14.1	14.2	14.5	14.2	14.1	14.3	13.8	13.7	13.4	13.0
90°	37.2	37.8	38.3	38.9	38.3	37.8	37.2	36.6	35.7	34.6	33.4
92.5°	53.4	53.1	52.7	52.4	52.7	53.1	53.4	53.8	53.5	52.6	51.6
95°	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	100.6	99.4	98.3
97.5°	156.0	155.9	155.8	155.6	155.8	155.9	156.0	156.1	155.5	154.2	152.8
100°	195.4	196.0	196.6	197.1	196.6	196.0	195.4	194.8	194.1	193.2	192.4
102.5°	240.0	239.9	239.8	239.7	239.8	239.9	240.0	240.1	239.8	238.9	238.0
105°	307.0	307.5	308.1	308.7	308.1	307.5	307.0	306.4	306.1	306.1	306.1
107.5°	381.6	381.2	380.9	380.5	380.9	381.2	381.6	381.9	381.6	380.7	379.8
110°	431.0	430.5	429.9	429.3	429.9	430.5	431.0	431.6	431.3	430.2	429.0



TEST NUMBER: P332403

CATALOG NUMBER: S123RDIW-S340D1320U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	481.5	481.4	481.3	481.2	481.3	481.4	481.5	481.6	481.0	479.6	478.2
115°	553.4	553.1	552.8	552.5	552.8	553.1	553.4	553.7	553.7	553.4	553.1
117.5°	627.3	626.5	625.7	624.9	625.7	626.5	627.3	628.1	628.5	628.6	628.7
120°	677.5	676.9	676.3	675.7	676.3	676.9	677.5	678.0	678.5	678.8	679.0
122.5°	726.9	726.1	725.3	724.5	725.3	726.1	726.9	727.7	728.5	729.2	730.0
125°	801.1	799.9	798.8	797.6	798.8	799.9	801.1	802.3	803.4	804.6	805.7
127.5°	874.5	873.2	871.9	870.5	871.9	873.2	874.5	875.8	877.3	878.9	880.5
130°	924.3	922.3	920.3	918.3	920.3	922.3	924.3	926.3	927.9	929.1	930.2
132.5°	972.7	971.2	969.6	968.1	969.6	971.2	972.7	974.3	975.8	977.1	978.5
135°	1047.1	1046.5	1045.9	1045.4	1045.9	1046.5	1047.1	1047.7	1048.5	1049.7	1050.8
137.5°	1116.9	1115.8	1114.7	1113.6	1114.7	1115.8	1116.9	1118.0	1119.1	1120.3	1121.5
140°	1164.3	1162.2	1160.2	1158.2	1160.2	1162.2	1164.3	1166.3	1167.4	1167.7	1168.0
142.5°	1208.5	1207.0	1205.4	1203.9	1205.4	1207.0	1208.5	1210.1	1211.0	1211.3	1211.6
145°	1273.2	1272.0	1270.9	1269.7	1270.9	1272.0	1273.2	1274.4	1275.1	1275.4	1275.6
147.5°	1333.6	1331.8	1330.1	1328.4	1330.1	1331.8	1333.6	1335.3	1336.1	1336.1	1336.1
150°	1370.9	1369.2	1367.4	1365.7	1367.4	1369.2	1370.9	1372.6	1373.5	1373.5	1373.5
152.5°	1406.5	1405.0	1403.5	1402.0	1403.5	1405.0	1406.5	1408.0	1408.5	1408.1	1407.6
155°	1457.4	1455.4	1453.3	1451.3	1453.3	1455.4	1457.4	1459.4	1459.8	1458.7	1457.5
157.5°	1501.0	1499.4	1497.8	1496.2	1497.8	1499.4	1501.0	1502.6	1502.9	1501.6	1500.4
160°	1528.7	1527.6	1526.4	1525.2	1526.4	1527.6	1528.7	1529.9	1529.7	1528.3	1526.8
162.5°	1552.6	1550.7	1548.9	1547.0	1548.9	1550.7	1552.6	1554.4	1554.6	1553.2	1551.7
165°	1584.5	1582.5	1580.4	1578.4	1580.4	1582.5	1584.5	1586.5	1586.6	1584.9	1583.2
167.5°	1610.5	1608.7	1606.9	1605.1	1606.9	1608.7	1610.5	1612.3	1612.3	1610.5	1608.7
170°	1624.7	1622.7	1620.6	1618.6	1620.6	1622.7	1624.7	1626.7	1626.7	1624.7	1622.7
172.5°	1635.1	1633.0	1631.0	1629.0	1631.0	1633.0	1635.1	1637.1	1637.2	1635.4	1633.6
175°	1646.7	1644.7	1642.7	1640.7	1642.7	1644.7	1646.7	1648.7	1648.9	1647.2	1645.4
177.5°	1651.7	1650.1	1648.5	1646.9	1648.5	1650.1	1651.7	1653.4	1653.5	1652.1	1650.7
180°	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1



TEST NUMBER: P332403

CATALOG NUMBER: S123RDIW-S340D1320U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2
2.5°	519.5	522.1	524.7	527.1	530.8	532.5	534.9	535.9	538.6	542.7	546.1
5°	487.9	491.6	496.5	500.4	506.7	511.6	517.0	522.1	528.2	536.8	544.5
7.5°	461.1	464.7	470.6	478.0	484.9	491.9	499.2	506.2	514.8	527.2	539.4
10°	443.4	447.8	454.8	462.7	471.3	478.1	486.7	495.5	506.3	520.5	535.2
12.5°	428.1	431.4	439.5	447.0	456.8	465.4	473.8	484.2	496.4	511.5	529.2
15°	403.8	408.4	416.3	424.7	435.0	444.1	455.0	467.6	479.5	498.1	519.5
17.5°	379.3	386.4	394.7	404.1	411.7	424.3	436.1	449.0	463.7	483.4	507.0
20°	363.7	369.3	377.0	390.7	400.7	410.3	421.2	437.3	450.8	473.2	497.6
22.5°	350.4	354.5	363.2	374.5	386.2	397.2	408.4	423.7	440.4	461.6	488.1
25°	330.8	337.4	343.9	352.0	364.6	377.9	390.0	403.1	420.8	443.4	472.0
27.5°	311.7	317.6	324.0	334.0	343.6	356.0	368.7	383.6	402.6	426.5	455.6
30°	299.4	303.8	309.9	322.7	331.3	342.0	356.9	370.2	387.9	413.3	444.1
32.5°	286.7	292.4	299.1	308.9	319.6	329.7	343.3	357.7	375.8	400.8	432.3
35°	268.6	275.4	282.1	289.4	300.1	310.6	322.0	337.8	356.2	380.5	411.4
37.5°	252.0	257.4	262.9	271.9	282.0	292.0	302.7	318.3	335.6	361.8	390.2
40°	241.4	246.3	250.5	259.8	269.6	280.3	290.8	304.5	323.1	347.6	375.1
42.5°	229.8	234.3	240.0	247.7	258.2	267.2	277.7	290.7	308.2	333.1	357.2
45°	212.5	217.6	222.5	229.7	240.2	249.1	258.4	270.7	288.7	309.2	330.6
47.5°	194.4	199.6	205.2	212.2	221.3	230.3	239.6	250.5	266.9	287.0	301.5
50°	182.9	187.1	192.7	199.7	208.1	217.6	226.0	237.9	253.5	269.3	281.9
52.5°	171.0	174.8	181.1	188.5	196.3	204.6	213.5	223.7	237.8	252.7	262.7
55°	152.4	157.0	162.4	169.6	177.3	184.3	192.9	203.4	214.6	225.8	232.5
57.5°	135.0	138.9	143.4	150.8	157.5	165.8	173.6	181.7	192.1	200.5	204.9
60°	122.3	125.8	131.6	138.2	144.4	151.7	160.5	168.7	176.6	183.4	186.8
62.5°	110.4	114.4	119.5	125.5	132.3	139.2	146.9	153.8	160.8	166.6	169.0
65°	94.8	98.1	101.8	107.4	113.0	120.0	126.0	133.0	138.2	141.4	143.5
67.5°	80.7	82.8	85.6	89.4	94.9	101.0	106.8	112.3	116.6	118.8	120.7
70°	71.5	72.9	75.0	78.7	82.9	88.3	94.4	98.3	102.0	103.9	105.8
72.5°	62.4	64.2	66.1	69.1	72.5	76.4	80.8	85.6	87.7	89.9	91.0
75°	47.3	49.9	52.4	54.3	56.6	59.6	63.6	66.6	67.8	69.7	69.9
77.5°	35.7	36.3	38.1	40.4	42.4	44.6	47.1	49.8	50.4	51.3	52.0
80°	29.4	29.4	29.4	30.8	33.1	34.7	37.0	38.4	39.4	39.6	39.8
82.5°	23.6	23.6	23.4	23.7	24.5	25.4	27.5	29.1	29.9	29.7	29.2
85°	15.4	14.9	14.9	14.7	14.9	14.4	14.2	15.1	16.5	16.5	16.1
87.5°	12.8	12.4	11.8	10.9	9.9	9.0	7.8	7.4	6.8	7.0	6.2
90°	32.3	31.1	27.4	23.6	19.9	16.1	12.8	9.9	7.1	4.2	1.3
92.5°	50.7	49.8	47.7	45.5	43.4	41.3	39.2	37.3	35.3	33.3	31.4
95°	97.1	96.0	93.7	91.4	89.1	86.8	84.6	82.6	80.6	78.5	76.5
97.5°	151.5	150.2	148.5	146.8	145.2	143.5	141.9	140.4	138.9	137.4	135.9
100°	191.5	190.7	189.2	187.8	186.3	184.9	183.3	181.6	179.8	178.1	176.4
102.5°	237.2	236.3	234.4	232.5	230.6	228.7	227.2	226.2	225.2	224.1	223.1
105°	306.1	306.1	303.5	300.9	298.3	295.7	294.1	293.5	293.0	292.4	291.8
107.5°	378.9	377.9	376.9	375.9	374.8	373.8	373.1	372.8	372.4	372.1	371.7
110°	427.9	426.7	426.1	425.6	425.0	424.4	423.8	423.2	422.7	422.1	421.5



TEST NUMBER: P332403

CATALOG NUMBER: S123RDIW-S340D1320U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	476.9	475.5	475.4	475.2	475.1	475.0	474.8	474.4	474.1	473.7	473.4
115°	552.8	552.5	553.1	553.7	554.2	554.8	554.7	553.8	552.9	552.1	551.2
117.5°	628.7	628.8	629.5	630.3	631.0	631.8	631.9	631.3	630.7	630.1	629.6
120°	679.3	679.6	681.1	682.5	683.9	685.4	685.2	683.5	681.8	680.0	678.3
122.5°	730.7	731.5	732.2	733.0	733.7	734.5	734.2	733.0	731.7	730.4	729.2
125°	806.9	808.0	808.6	809.2	809.7	810.3	810.2	809.3	808.4	807.6	806.7
127.5°	882.1	883.8	884.4	885.0	885.7	886.3	885.7	883.8	882.0	880.2	878.3
130°	931.4	932.5	933.4	934.3	935.1	936.0	935.3	933.0	930.7	928.3	926.0
132.5°	979.9	981.3	981.9	982.6	983.2	983.8	983.0	980.7	978.4	976.1	973.8
135°	1052.0	1053.1	1053.4	1053.7	1054.0	1054.3	1053.6	1051.8	1050.1	1048.4	1046.7
137.5°	1122.7	1124.0	1123.2	1122.5	1121.7	1121.0	1119.9	1118.4	1117.0	1115.5	1114.1
140°	1168.3	1168.6	1168.3	1168.0	1167.7	1167.4	1166.6	1165.1	1163.7	1162.2	1160.8
142.5°	1211.9	1212.2	1211.6	1211.1	1210.6	1210.1	1209.1	1207.7	1206.2	1204.8	1203.3
145°	1275.9	1276.2	1275.4	1274.5	1273.6	1272.8	1272.0	1271.5	1270.9	1270.3	1269.7
147.5°	1336.1	1336.1	1335.3	1334.5	1333.7	1332.9	1332.0	1331.0	1329.9	1328.9	1327.8
150°	1373.5	1373.5	1372.9	1372.3	1371.8	1371.2	1370.6	1370.0	1369.5	1368.9	1368.3
152.5°	1407.2	1406.7	1406.4	1406.0	1405.7	1405.3	1404.7	1403.9	1403.1	1402.3	1401.5
155°	1456.4	1455.2	1454.9	1454.6	1454.3	1454.1	1453.9	1453.9	1453.9	1453.9	1453.9
157.5°	1499.2	1498.0	1497.8	1497.5	1497.3	1497.1	1497.1	1497.5	1497.8	1498.2	1498.5
160°	1525.4	1523.9	1523.9	1523.9	1523.9	1523.9	1524.2	1524.8	1525.4	1526.0	1526.5
162.5°	1550.3	1548.8	1548.6	1548.4	1548.2	1547.9	1548.2	1549.0	1549.8	1550.6	1551.4
165°	1581.4	1579.7	1579.7	1579.7	1579.7	1579.7	1580.2	1581.0	1581.9	1582.7	1583.6
167.5°	1606.9	1605.1	1604.9	1604.7	1604.4	1604.2	1604.7	1605.8	1607.0	1608.1	1609.3
170°	1620.6	1618.6	1618.6	1618.6	1618.6	1618.6	1619.2	1620.4	1621.5	1622.7	1623.8
172.5°	1631.8	1630.0	1630.0	1630.0	1630.0	1630.0	1630.6	1631.8	1632.9	1634.1	1635.2
175°	1643.7	1642.0	1642.0	1642.0	1642.0	1642.0	1642.5	1643.7	1644.9	1646.0	1647.2
177.5°	1649.3	1647.9	1647.9	1647.9	1647.9	1647.9	1648.4	1649.3	1650.2	1651.2	1652.1
180°	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1



TEST NUMBER: P332403

CATALOG NUMBER: S123RDIW-S340D1320U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2	544.2
2.5°	547.2	549.3	551.9	555.8	558.8	561.4	561.9	562.7	564.6	567.7	570.1
5°	550.8	556.1	564.7	573.1	582.2	589.7	596.7	601.6	606.2	616.0	623.9
7.5°	549.6	561.6	575.1	590.1	605.4	620.1	633.8	646.1	658.3	672.6	688.8
10°	548.9	562.9	581.1	600.4	621.6	642.3	662.4	678.0	696.1	712.5	733.2
12.5°	545.4	565.5	587.2	611.9	638.0	661.9	688.3	709.8	730.6	754.2	778.3
15°	540.7	565.2	592.7	625.5	665.2	694.0	721.1	758.6	784.2	809.8	844.3
17.5°	532.3	562.2	596.5	639.2	672.2	711.1	751.7	781.4	815.9	852.0	883.2
20°	525.6	560.3	598.8	640.7	682.9	725.0	764.4	799.8	835.5	877.2	902.8
22.5°	518.9	553.2	593.2	637.7	683.0	727.5	772.0	813.6	853.7	895.8	928.5
25°	504.6	545.4	588.7	634.2	678.9	727.8	780.9	827.3	876.9	920.3	951.3
27.5°	490.2	527.6	570.7	616.8	666.5	724.3	786.8	839.5	889.2	920.3	930.0
30°	477.1	516.7	556.4	603.2	657.0	721.5	787.9	848.3	889.0	902.6	892.5
32.5°	463.9	499.8	539.0	587.0	644.1	714.6	789.4	843.1	867.6	857.3	816.5
35°	440.6	472.9	510.9	558.9	624.6	710.8	783.3	819.6	813.6	755.3	678.4
37.5°	415.6	442.0	477.1	527.3	604.4	695.7	756.8	762.2	709.7	620.3	531.5
40°	395.8	419.6	455.7	508.1	588.7	680.8	730.2	708.5	627.2	527.7	453.6
42.5°	376.6	396.7	431.5	488.0	573.8	660.4	690.5	643.3	549.5	455.4	388.0
45°	344.1	363.0	397.9	455.9	543.3	621.6	617.6	535.6	441.7	366.0	310.1
47.5°	313.3	329.8	362.6	421.8	507.5	563.3	526.3	439.0	359.4	298.6	258.7
50°	291.5	307.8	340.4	398.9	478.8	519.5	466.7	382.6	309.6	259.3	227.6
52.5°	270.6	286.5	316.3	373.3	444.1	468.5	411.7	333.7	272.9	229.5	202.3
55°	241.4	253.5	280.3	334.8	387.7	393.3	335.7	270.5	220.4	190.1	171.5
57.5°	211.6	222.0	248.5	291.9	329.0	326.1	271.6	215.1	181.4	158.9	145.4
60°	192.2	202.5	225.8	263.0	291.0	281.2	231.1	185.7	156.8	140.3	129.5
62.5°	174.1	182.1	204.0	231.2	251.3	240.2	197.6	160.0	137.0	123.1	114.6
65°	147.9	154.5	171.9	186.2	197.3	186.6	151.2	125.1	108.6	98.8	93.0
67.5°	123.1	127.2	138.2	143.4	151.3	139.5	113.7	96.2	86.8	78.6	74.5
70°	107.4	110.4	116.3	120.5	122.5	110.4	91.3	78.5	70.6	64.8	62.2
72.5°	91.7	94.4	95.6	99.0	97.9	86.6	73.4	63.2	57.5	53.6	50.3
75°	70.1	71.3	70.1	68.7	65.7	57.8	48.7	43.6	39.4	37.5	36.3
77.5°	51.1	50.7	49.2	47.0	41.8	36.8	31.9	30.2	28.4	27.4	27.0
80°	39.4	38.4	37.0	33.5	29.1	25.6	24.5	23.3	22.6	21.4	21.2
82.5°	29.3	28.7	26.4	23.5	20.4	18.7	17.8	17.3	16.6	16.0	16.0
85°	15.6	14.9	12.3	10.7	10.3	9.8	9.6	9.6	8.6	8.4	8.4
87.5°	5.9	5.3	5.7	5.7	6.4	6.8	7.7	8.1	8.6	9.1	8.9
90°	4.2	7.1	9.9	12.8	16.1	19.9	23.6	27.4	31.1	32.3	33.4
92.5°	33.3	35.3	37.3	39.2	41.3	43.4	45.5	47.7	49.8	50.7	51.6
95°	78.5	80.6	82.6	84.6	86.8	89.1	91.4	93.7	96.0	97.1	98.3
97.5°	137.4	138.9	140.4	141.9	143.5	145.2	146.8	148.5	150.2	151.5	152.8
100°	178.1	179.8	181.6	183.3	184.9	186.3	187.8	189.2	190.7	191.5	192.4
102.5°	224.1	225.2	226.2	227.2	228.7	230.6	232.5	234.4	236.3	237.2	238.0
105°	292.4	293.0	293.5	294.1	295.7	298.3	300.9	303.5	306.1	306.1	306.1
107.5°	372.1	372.4	372.8	373.1	373.8	374.8	375.9	376.9	377.9	378.9	379.8
110°	422.1	422.7	423.2	423.8	424.4	425.0	425.6	426.1	426.7	427.9	429.0





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	473.7	474.1	474.4	474.8	475.0	475.1	475.2	475.4	475.5	476.9	478.2
115°	552.1	552.9	553.8	554.7	554.8	554.2	553.7	553.1	552.5	552.8	553.1
117.5°	630.1	630.7	631.3	631.9	631.8	631.0	630.3	629.5	628.8	628.7	628.7
120°	680.0	681.8	683.5	685.2	685.4	683.9	682.5	681.1	679.6	679.3	679.0
122.5°	730.4	731.7	733.0	734.2	734.5	733.7	733.0	732.2	731.5	730.7	730.0
125°	807.6	808.4	809.3	810.2	810.3	809.7	809.2	808.6	808.0	806.9	805.7
127.5°	880.2	882.0	883.8	885.7	886.3	885.7	885.0	884.4	883.8	882.1	880.5
130°	928.3	930.7	933.0	935.3	936.0	935.1	934.3	933.4	932.5	931.4	930.2
132.5°	976.1	978.4	980.7	983.0	983.8	983.2	982.6	981.9	981.3	979.9	978.5
135°	1048.4	1050.1	1051.8	1053.6	1054.3	1054.0	1053.7	1053.4	1053.1	1052.0	1050.8
137.5°	1115.5	1117.0	1118.4	1119.9	1121.0	1121.7	1122.5	1123.2	1124.0	1122.7	1121.5
140°	1162.2	1163.7	1165.1	1166.6	1167.4	1167.7	1168.0	1168.3	1168.6	1168.3	1168.0
142.5°	1204.8	1206.2	1207.7	1209.1	1210.1	1210.6	1211.1	1211.6	1212.2	1211.9	1211.6
145°	1270.3	1270.9	1271.5	1272.0	1272.8	1273.6	1274.5	1275.4	1276.2	1275.9	1275.6
147.5°	1328.9	1329.9	1331.0	1332.0	1332.9	1333.7	1334.5	1335.3	1336.1	1336.1	1336.1
150°	1368.9	1369.5	1370.0	1370.6	1371.2	1371.8	1372.3	1372.9	1373.5	1373.5	1373.5
152.5°	1402.3	1403.1	1403.9	1404.7	1405.3	1405.7	1406.0	1406.4	1406.7	1407.2	1407.6
155°	1453.9	1453.9	1453.9	1453.9	1454.1	1454.3	1454.6	1454.9	1455.2	1456.4	1457.5
157.5°	1498.2	1497.8	1497.5	1497.1	1497.1	1497.3	1497.5	1497.8	1498.0	1499.2	1500.4
160°	1526.0	1525.4	1524.8	1524.2	1523.9	1523.9	1523.9	1523.9	1523.9	1525.4	1526.8
162.5°	1550.6	1549.8	1549.0	1548.2	1547.9	1548.2	1548.4	1548.6	1548.8	1550.3	1551.7
165°	1582.7	1581.9	1581.0	1580.2	1579.7	1579.7	1579.7	1579.7	1579.7	1581.4	1583.2
167.5°	1608.1	1607.0	1605.8	1604.7	1604.2	1604.4	1604.7	1604.9	1605.1	1606.9	1608.7
170°	1622.7	1621.5	1620.4	1619.2	1618.6	1618.6	1618.6	1618.6	1618.6	1620.6	1622.7
172.5°	1634.1	1632.9	1631.8	1630.6	1630.0	1630.0	1630.0	1630.0	1630.0	1631.8	1633.6
175°	1646.0	1644.9	1643.7	1642.5	1642.0	1642.0	1642.0	1642.0	1642.0	1643.7	1645.4
177.5°	1651.2	1650.2	1649.3	1648.4	1647.9	1647.9	1647.9	1647.9	1647.9	1649.3	1650.7
180°	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	544.2	544.2	544.2	544.2	544.2	544.2	544.2
2.5°	574.1	574.1	574.8	577.6	578.0	580.4	579.7
5°	630.9	635.3	637.0	644.0	648.1	650.0	646.3
7.5°	700.4	712.9	718.8	726.2	732.6	734.6	729.5
10°	751.1	764.2	775.1	781.9	788.2	792.4	797.7
12.5°	800.1	816.2	826.6	836.1	842.6	847.9	848.8
15°	853.4	877.6	896.0	909.6	916.3	919.8	918.4
17.5°	907.1	929.6	942.7	956.5	965.8	966.3	966.6
20°	937.5	959.4	974.6	984.8	995.3	994.8	997.2
22.5°	957.8	975.1	986.7	994.1	997.7	995.9	996.4
25°	967.3	972.5	970.4	958.5	955.4	944.5	946.4
27.5°	918.3	894.1	869.0	836.8	811.3	791.0	792.0
30°	851.8	808.9	760.0	719.0	682.2	671.9	650.0
32.5°	758.8	694.5	637.2	598.9	567.4	558.8	539.7
35°	601.1	538.6	479.7	444.3	430.3	410.7	410.5
37.5°	467.2	412.2	381.1	354.5	340.6	328.7	327.6
40°	393.0	350.2	326.6	307.5	293.8	284.9	282.8
42.5°	341.2	306.6	284.5	272.7	262.1	257.5	254.1
45°	278.6	255.3	240.0	229.3	224.4	220.9	219.0
47.5°	233.1	217.5	207.0	199.8	195.9	192.2	193.2
50°	208.3	195.5	187.8	181.0	178.0	175.4	175.7
52.5°	188.3	176.8	170.6	165.7	162.0	160.1	159.3
55°	159.8	152.6	146.3	142.8	140.7	138.2	137.5
57.5°	136.3	130.7	125.6	121.7	121.1	118.7	119.0
60°	120.7	116.0	111.8	109.7	108.1	106.0	106.7
62.5°	107.8	103.9	100.1	98.4	96.7	95.2	95.5
65°	88.3	84.6	82.2	81.3	80.6	79.9	79.2
67.5°	70.4	68.1	66.6	64.6	63.2	63.0	62.3
70°	59.2	56.1	53.6	51.0	50.3	50.1	50.3
72.5°	47.4	45.5	44.8	43.6	43.4	42.8	43.2
75°	35.6	34.9	34.5	33.5	33.5	33.5	33.5
77.5°	26.3	25.9	25.6	25.4	25.2	24.8	24.8
80°	20.5	20.3	19.8	19.8	19.6	19.8	19.6
82.5°	15.5	15.4	15.0	15.0	14.7	14.6	14.7
85°	7.9	7.7	8.2	7.7	7.9	7.5	7.9
87.5°	9.2	9.4	9.4	9.5	9.4	9.9	9.6
90°	34.6	35.7	36.6	37.2	37.8	38.3	38.9
92.5°	52.6	53.5	53.8	53.4	53.1	52.7	52.4
95°	99.4	100.6	101.2	101.2	101.2	101.2	101.2
97.5°	154.2	155.5	156.1	156.0	155.9	155.8	155.6
100°	193.2	194.1	194.8	195.4	196.0	196.6	197.1
102.5°	238.9	239.8	240.1	240.0	239.9	239.8	239.7
105°	306.1	306.1	306.4	307.0	307.5	308.1	308.7
107.5°	380.7	381.6	381.9	381.6	381.2	380.9	380.5
110°	430.2	431.3	431.6	431.0	430.5	429.9	429.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	479.6	481.0	481.6	481.5	481.4	481.3	481.2
115°	553.4	553.7	553.7	553.4	553.1	552.8	552.5
117.5°	628.6	628.5	628.1	627.3	626.5	625.7	624.9
120°	678.8	678.5	678.0	677.5	676.9	676.3	675.7
122.5°	729.2	728.5	727.7	726.9	726.1	725.3	724.5
125°	804.6	803.4	802.3	801.1	799.9	798.8	797.6
127.5°	878.9	877.3	875.8	874.5	873.2	871.9	870.5
130°	929.1	927.9	926.3	924.3	922.3	920.3	918.3
132.5°	977.1	975.8	974.3	972.7	971.2	969.6	968.1
135°	1049.7	1048.5	1047.7	1047.1	1046.5	1045.9	1045.4
137.5°	1120.3	1119.1	1118.0	1116.9	1115.8	1114.7	1113.6
140°	1167.7	1167.4	1166.3	1164.3	1162.2	1160.2	1158.2
142.5°	1211.3	1211.0	1210.1	1208.5	1207.0	1205.4	1203.9
145°	1275.4	1275.1	1274.4	1273.2	1272.0	1270.9	1269.7
147.5°	1336.1	1336.1	1335.3	1333.6	1331.8	1330.1	1328.4
150°	1373.5	1373.5	1372.6	1370.9	1369.2	1367.4	1365.7
152.5°	1408.1	1408.5	1408.0	1406.5	1405.0	1403.5	1402.0
155°	1458.7	1459.8	1459.4	1457.4	1455.4	1453.3	1451.3
157.5°	1501.6	1502.9	1502.6	1501.0	1499.4	1497.8	1496.2
160°	1528.3	1529.7	1529.9	1528.7	1527.6	1526.4	1525.2
162.5°	1553.2	1554.6	1554.4	1552.6	1550.7	1548.9	1547.0
165°	1584.9	1586.6	1586.5	1584.5	1582.5	1580.4	1578.4
167.5°	1610.5	1612.3	1612.3	1610.5	1608.7	1606.9	1605.1
170°	1624.7	1626.7	1626.7	1624.7	1622.7	1620.6	1618.6
172.5°	1635.4	1637.2	1637.1	1635.1	1633.0	1631.0	1629.0
175°	1647.2	1648.9	1648.7	1646.7	1644.7	1642.7	1640.7
177.5°	1652.1	1653.5	1653.4	1651.7	1650.1	1648.5	1646.9
180°	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1

(END OF REPORT)