

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: P332108-940

Luminaire Tested: **S123DIW-S340D1320U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332108-940
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: S123DIW-S340D1320U940-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1320 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6004.8 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

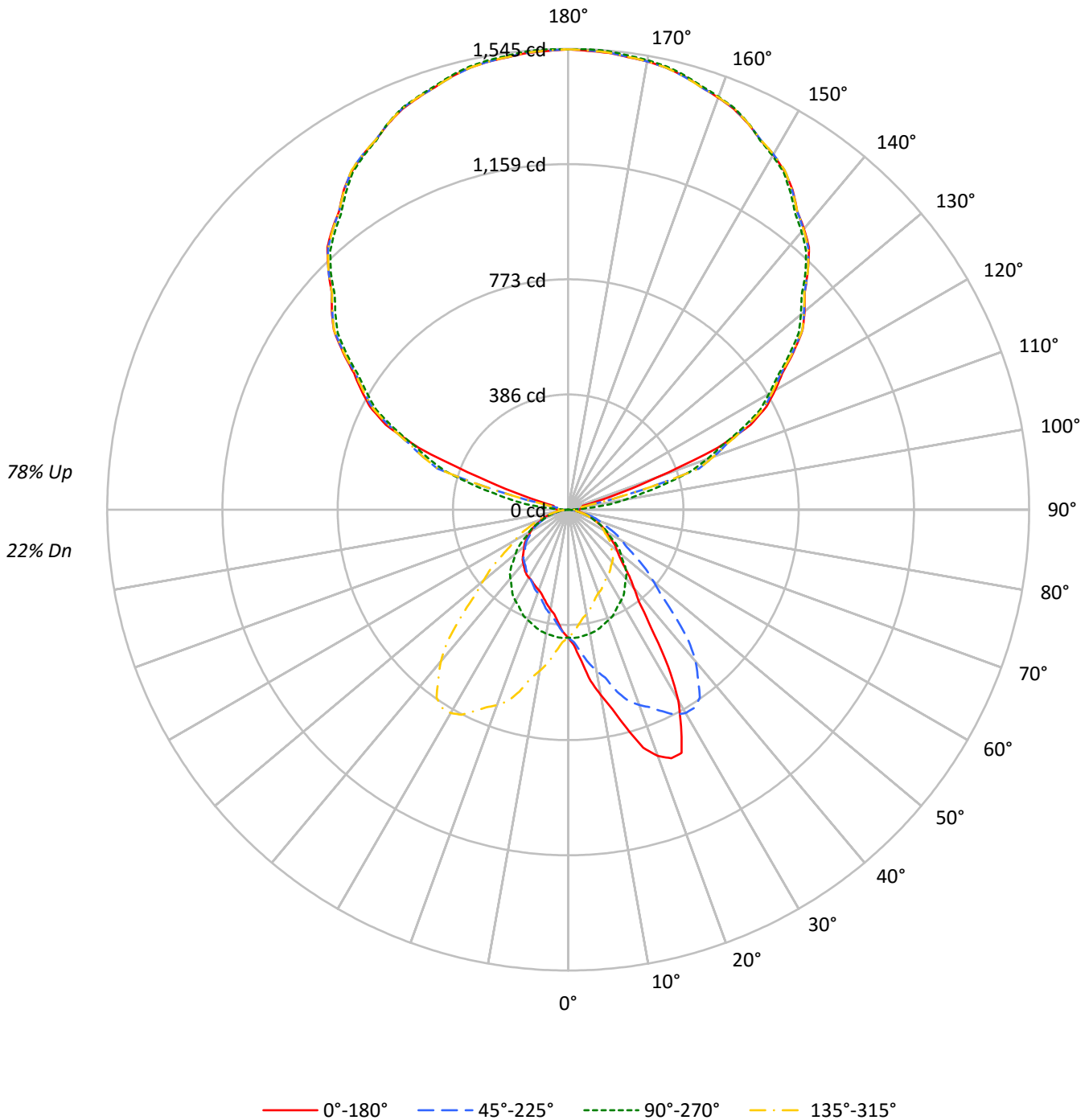
Input Watts (W): 46.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332108-940

CATALOG NUMBER: S123DIW-S340D1320U940-4F0-1E-UDD-A

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	89	89	89	89	68	68	68	48	48	48	30	30	30	22
1	92	87	84	80	81	78	75	72	59	57	55	42	41	40	27	26	26	18
2	83	76	71	66	74	68	63	59	52	49	46	37	35	34	24	23	22	16
3	76	67	60	55	67	60	54	49	46	42	39	33	30	28	21	20	18	13
4	70	59	52	46	61	53	47	42	41	36	33	29	27	24	19	17	16	12
5	64	53	45	39	56	47	41	36	36	32	28	26	23	21	17	15	14	10
6	59	47	39	34	52	42	36	31	33	28	24	24	21	18	15	14	12	9
7	54	42	35	30	48	38	31	27	29	25	21	21	18	16	14	12	11	8
8	50	38	31	26	44	34	28	24	27	22	19	20	16	14	13	11	10	7
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	6
10	43	32	25	20	38	28	23	18	22	18	15	16	13	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4614	4614	4614	4614
5°	5503	4635	4107	4635
10°	6889	4612	3711	4612
15°	8449	4574	3455	4574
20°	10065	4517	3289	4517
25°	10688	4445	3252	4445
30°	9161	4395	3269	4395
35°	6370	4322	3303	4322
40°	4799	4235	3292	4235
45°	3984	4107	3252	4107
50°	3569	3848	3220	3848
55°	3337	3567	3181	3567
60°	3130	3272	3147	3272
65°	2942	2985	3049	2985
70°	2760	2656	2902	2656
75°	2470	2325	2662	2325
80°	2163	1909	2294	1909
85°	1692	1383	1544	1383



TEST NUMBER: P332108-940

CATALOG NUMBER: S123DIW-S340D1320U940-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.2	0.7
10°-20°	135.4	2.3
20°-30°	227.3	3.8
30°-40°	257.4	4.3
40°-50°	230.8	3.8
50°-60°	186.3	3.1
60°-70°	129.8	2.2
70°-80°	68.2	1.1
80°-90°	21.0	0.3
90°-100°	56.1	0.9
100°-110°	267.4	4.5
110°-120°	642.3	10.7
120°-130°	818.0	13.6
130°-140°	874.0	14.6
140°-150°	817.3	13.6
150°-160°	659.2	11.0
160°-170°	425.5	7.1
170°-180°	146.6	2.4
0°-30°	405.0	6.7
0°-40°	662.4	11.0
0°-60°	1079.4	18.0
0°-90°	1298.4	21.6
90°-120°	965.9	16.1
90°-150°	3475.0	57.9
90°-180°	4706.0	78.4
0°-180°	6004.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	429	429	429	429	429	
5°	509	429	380	429	509	53
15°	758	410	310	410	758	219
25°	900	374	274	374	900	395
35°	485	329	251	329	485	315
45°	262	270	214	270	262	207
55°	178	190	170	190	178	160
65°	116	117	120	117	116	115
75°	59	56	64	56	59	64
85°	14	11	12	11	14	17
90°	34	1	34	1	34	16
95°	44	70	44	70	44	36
105°	50	342	50	342	50	115
115°	674	641	674	641	674	623
125°	922	904	922	904	922	823
135°	1136	1125	1136	1125	1136	876
145°	1310	1298	1310	1298	1310	818
155°	1428	1430	1428	1430	1428	658
165°	1504	1508	1504	1508	1504	425
175°	1538	1543	1538	1543	1538	146
180°	1543	1543	1543	1543	1543	



TEST NUMBER: P332108-940

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	455.0	454.7	453.9	454.5	453.2	451.4	451.2	449.5	444.7	444.4	443.1
5°	509.3	507.7	507.5	507.3	504.4	500.4	492.9	492.3	482.3	477.4	471.4
7.5°	579.8	580.6	577.6	575.0	566.1	560.2	552.1	541.9	529.7	517.2	509.0
10°	630.3	637.1	628.7	622.8	617.4	607.3	595.4	580.6	565.9	548.7	535.6
12.5°	684.5	687.8	686.1	680.6	672.3	656.7	635.8	619.5	605.9	577.2	565.6
15°	758.2	770.9	762.8	744.1	744.5	729.8	702.4	672.3	656.2	631.1	596.8
17.5°	836.9	838.4	835.0	819.4	809.0	788.7	763.4	734.6	702.1	671.7	635.3
20°	878.7	877.4	870.2	862.1	844.3	828.5	800.8	768.7	727.1	697.1	657.5
22.5°	902.0	899.9	896.4	889.7	874.9	857.9	833.0	797.9	758.3	717.1	671.3
25°	899.9	902.6	903.0	901.2	896.0	885.8	866.3	838.2	798.8	745.7	698.0
27.5°	818.5	822.3	833.4	843.3	854.3	865.5	864.0	850.1	820.8	775.1	716.7
30°	737.1	728.7	749.3	775.3	792.9	824.1	841.5	842.6	826.2	786.9	730.0
32.5°	624.0	633.2	642.3	674.2	712.8	747.8	782.6	810.5	813.7	787.6	737.8
35°	484.8	496.3	512.9	529.5	571.1	606.8	667.9	721.0	763.4	769.0	738.5
37.5°	390.7	396.4	406.9	423.6	450.7	493.1	540.3	607.5	669.0	714.6	716.6
40°	341.5	343.2	355.0	367.7	389.7	424.6	467.2	526.6	600.1	664.0	690.5
42.5°	304.6	308.3	313.3	325.5	343.0	369.3	408.8	458.0	525.4	598.8	650.8
45°	261.7	265.9	269.0	277.1	289.6	307.3	334.8	379.8	431.1	506.8	576.8
47.5°	233.4	233.7	236.0	242.2	250.7	263.9	283.5	312.3	359.4	420.9	492.8
50°	213.1	216.4	217.3	222.0	228.7	238.4	254.7	279.2	317.8	371.8	437.9
52.5°	198.9	199.8	202.2	205.6	211.4	219.0	233.1	252.3	282.6	328.7	389.4
55°	177.8	177.8	180.1	182.8	186.1	193.0	202.3	216.4	239.5	275.3	325.6
57.5°	158.4	159.4	161.0	161.8	164.7	169.2	177.0	187.8	204.9	232.5	272.4
60°	145.4	147.3	147.0	148.7	151.2	154.8	161.4	170.1	185.5	207.5	241.2
62.5°	134.1	134.0	133.9	136.0	138.4	141.8	146.2	153.6	166.7	186.3	214.9
65°	115.5	115.1	116.5	117.8	118.6	121.1	124.4	131.1	139.8	154.4	176.6
67.5°	99.0	97.7	98.5	99.0	100.4	102.4	105.5	109.6	116.5	128.1	144.9
70°	87.7	86.6	86.4	86.9	88.1	89.5	91.8	95.8	102.2	111.6	123.8
72.5°	76.1	75.3	75.3	76.2	76.8	77.8	79.4	82.9	88.1	95.1	106.6
75°	59.4	59.4	59.4	59.7	60.3	61.1	62.3	64.2	68.1	73.1	80.8
77.5°	44.5	44.5	44.2	44.2	45.1	45.5	45.7	47.5	49.8	53.1	58.7
80°	34.9	33.9	34.2	34.9	35.3	35.5	36.1	36.6	38.4	40.3	44.2
82.5°	25.9	25.1	25.1	26.1	26.2	26.4	27.0	27.6	28.3	30.0	32.1
85°	13.7	13.7	13.9	13.9	14.1	13.9	14.5	14.7	14.7	15.8	17.0
87.5°	11.9	11.4	11.5	11.6	11.3	11.3	11.2	11.2	11.2	11.1	10.7
90°	34.4	33.9	33.3	32.9	32.4	31.6	30.6	29.5	28.5	27.6	24.2
92.5°	38.1	37.7	37.5	37.2	36.8	35.8	34.2	32.6	30.9	29.3	26.8
95°	43.6	43.6	43.6	43.6	43.6	42.7	40.9	39.1	37.4	35.6	32.7
97.5°	47.3	47.0	46.7	46.5	46.2	45.0	43.1	41.0	39.0	36.9	55.3
100°	48.2	47.9	47.6	47.3	47.2	46.0	44.0	41.9	39.9	37.8	77.6
102.5°	49.0	48.6	48.2	47.7	47.3	50.2	56.4	62.8	69.1	75.4	118.9
105°	50.5	49.9	49.4	49.0	48.4	70.7	115.8	160.9	206.0	251.1	274.0
107.5°	158.5	192.4	226.4	260.5	294.4	328.0	361.1	394.1	427.1	460.2	456.6
110°	315.3	351.8	388.2	424.6	461.0	483.5	491.9	500.2	508.7	517.1	514.3



TEST NUMBER: P332108-940

CATALOG NUMBER: S123DIW-S340D1320U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	541.0	548.7	556.3	564.0	571.8	575.5	575.3	575.2	575.1	574.9	572.1
115°	674.2	673.2	672.2	671.1	670.1	668.3	665.8	663.3	660.7	658.2	655.9
117.5°	748.9	748.8	748.5	748.3	748.1	747.0	744.9	743.0	740.9	738.9	737.7
120°	800.3	800.3	800.3	800.3	800.3	799.3	797.3	795.2	793.2	791.1	790.4
122.5°	850.8	850.6	850.3	850.2	850.0	849.2	847.7	846.3	844.9	843.5	842.5
125°	921.9	921.3	920.9	920.3	919.8	919.3	918.8	918.3	917.7	917.3	916.2
127.5°	990.2	990.7	991.2	991.8	992.2	992.1	991.2	990.4	989.6	988.8	987.6
130°	1034.2	1034.7	1035.3	1035.7	1036.3	1036.0	1035.0	1033.9	1033.0	1031.9	1030.9
132.5°	1074.6	1075.3	1076.0	1076.7	1077.5	1077.3	1076.3	1075.2	1074.2	1073.2	1072.4
135°	1136.3	1137.0	1137.8	1138.5	1139.3	1139.3	1138.5	1137.8	1137.0	1136.3	1135.2
137.5°	1194.3	1194.8	1195.3	1195.8	1196.3	1196.0	1194.7	1193.6	1192.3	1191.1	1190.5
140°	1229.1	1229.7	1230.1	1230.7	1231.2	1230.9	1229.9	1228.9	1227.9	1226.8	1226.1
142.5°	1261.2	1261.9	1262.7	1263.4	1264.1	1264.1	1263.2	1262.4	1261.6	1260.8	1260.0
145°	1310.5	1310.5	1310.5	1310.5	1310.5	1310.3	1309.7	1309.3	1308.8	1308.2	1307.8
147.5°	1347.2	1348.4	1349.6	1350.8	1351.9	1352.3	1351.7	1351.2	1350.8	1350.2	1349.7
150°	1374.8	1375.6	1376.3	1377.1	1377.8	1378.0	1377.4	1376.9	1376.4	1375.9	1375.4
152.5°	1396.8	1397.9	1399.1	1400.3	1401.5	1401.6	1400.7	1399.7	1398.8	1397.9	1397.6
155°	1427.5	1429.1	1430.6	1432.1	1433.6	1433.8	1432.4	1431.2	1429.9	1428.6	1428.4
157.5°	1453.4	1455.4	1457.4	1459.4	1461.3	1461.6	1460.1	1458.6	1457.0	1455.5	1455.7
160°	1469.9	1471.7	1473.5	1475.2	1477.0	1477.2	1475.7	1474.1	1472.6	1471.1	1471.3
162.5°	1485.5	1487.1	1488.7	1490.2	1491.8	1491.7	1490.0	1488.3	1486.6	1484.8	1485.1
165°	1504.3	1506.1	1507.9	1509.7	1511.4	1511.4	1509.3	1507.3	1505.2	1503.2	1503.4
167.5°	1517.9	1519.9	1522.0	1523.9	1526.0	1526.0	1523.9	1522.0	1519.9	1517.9	1517.9
170°	1526.1	1528.1	1530.2	1532.2	1534.3	1534.3	1532.2	1530.2	1528.1	1526.1	1526.1
172.5°	1530.7	1532.9	1535.2	1537.4	1539.6	1539.8	1537.8	1535.7	1533.7	1531.6	1531.4
175°	1537.6	1539.6	1541.7	1543.7	1545.7	1545.9	1544.1	1542.3	1540.5	1538.7	1538.5
177.5°	1539.6	1541.7	1543.7	1545.8	1547.8	1548.0	1546.4	1544.7	1543.1	1541.5	1541.2
180°	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3



TEST NUMBER: P332108-940

CATALOG NUMBER: S123DIW-S340D1320U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	442.0	440.8	439.4	437.1	435.1	432.3	431.4	430.4	427.4	424.8	422.8
5°	469.0	464.0	456.8	450.1	444.8	437.5	433.4	429.0	422.8	417.1	412.6
7.5°	497.3	487.5	476.2	464.0	452.6	441.7	432.8	424.9	416.2	408.0	401.4
10°	519.8	505.6	489.8	472.8	458.3	444.2	432.3	422.0	410.7	400.9	392.8
12.5°	545.4	524.4	502.7	482.0	464.8	445.1	430.8	417.6	404.8	393.2	384.1
15°	575.6	549.0	523.3	494.8	468.7	444.2	427.1	410.5	395.7	383.7	372.0
17.5°	603.2	573.1	539.1	504.5	473.0	443.9	420.1	401.3	382.8	368.1	356.5
20°	618.8	584.6	546.2	510.2	475.3	442.9	416.7	394.3	374.3	358.7	345.7
22.5°	632.3	592.2	552.4	514.0	475.1	440.2	410.5	387.4	365.9	350.6	336.7
25°	646.3	598.2	558.4	513.4	469.9	433.7	400.6	374.3	352.8	334.8	320.6
27.5°	658.3	597.9	550.5	502.0	461.6	425.4	389.9	361.9	338.9	319.5	305.0
30°	666.2	598.7	542.4	494.5	453.7	416.3	381.8	353.6	329.5	309.8	296.0
32.5°	671.2	598.2	534.9	483.8	441.0	408.0	373.0	343.8	319.0	299.6	286.4
35°	674.1	594.5	522.0	461.8	420.7	388.4	359.2	328.9	302.9	284.8	269.8
37.5°	668.2	586.8	507.1	440.6	395.6	363.9	339.2	313.4	288.6	268.7	255.7
40°	659.2	581.8	495.4	425.6	378.3	347.8	326.8	301.4	276.9	258.0	245.9
42.5°	641.7	571.8	482.7	409.0	360.3	329.8	310.5	289.3	266.1	248.3	236.3
45°	599.1	549.7	463.4	384.1	333.9	302.3	285.3	269.8	248.9	231.7	221.2
47.5°	540.0	516.5	435.7	357.8	306.1	275.8	258.1	245.8	230.4	216.4	206.5
50°	499.0	489.2	417.0	339.8	287.8	258.0	240.9	229.8	218.7	204.8	195.7
52.5°	451.7	457.6	395.0	321.3	268.9	239.7	223.7	214.8	204.8	193.3	185.4
55°	385.0	406.7	357.1	290.0	240.9	213.1	198.0	190.1	184.2	175.8	168.9
57.5°	322.5	350.3	316.1	257.8	213.5	189.5	175.0	166.4	162.6	158.2	152.8
60°	285.4	312.8	286.9	236.2	195.1	172.2	159.3	152.0	148.3	145.2	140.6
62.5°	252.4	280.1	258.3	214.3	176.9	155.8	144.5	137.4	134.6	133.0	129.0
65°	206.9	230.8	216.2	180.1	151.1	132.3	122.2	117.2	114.5	113.9	111.4
67.5°	168.4	186.5	176.0	149.4	126.5	110.4	101.7	97.5	95.4	95.1	93.3
70°	143.1	160.2	152.0	128.0	108.3	95.6	88.1	84.4	83.1	82.9	81.9
72.5°	123.5	135.4	128.9	108.9	93.6	82.1	76.6	72.7	71.3	71.6	70.9
75°	91.4	100.3	96.6	82.7	70.4	63.0	58.4	55.9	54.7	55.3	54.4
77.5°	65.8	71.4	68.0	58.4	50.8	45.5	42.1	40.6	39.4	39.4	39.1
80°	49.7	53.0	51.1	45.3	39.1	34.5	31.7	30.8	30.1	29.9	29.7
82.5°	35.4	38.2	35.9	32.0	27.7	25.0	23.5	22.1	21.7	21.8	21.6
85°	17.8	18.9	18.1	15.6	13.9	12.7	11.9	11.2	10.8	11.0	10.6
87.5°	10.3	9.8	8.6	7.4	6.6	5.5	5.1	4.2	4.4	4.9	5.3
90°	20.9	17.6	14.3	11.3	8.8	6.2	3.7	1.2	3.7	6.2	8.8
92.5°	24.3	21.8	19.4	18.5	19.2	19.9	20.6	21.3	20.6	19.9	19.2
95°	30.0	27.1	24.3	28.2	38.6	49.0	59.5	69.9	59.5	49.0	38.6
97.5°	73.7	91.9	110.3	121.8	126.5	131.2	135.9	140.5	135.9	131.2	126.5
100°	117.3	157.1	196.8	214.2	209.0	203.9	198.9	193.8	198.9	203.9	209.0
102.5°	162.3	205.7	249.1	269.0	265.3	261.6	258.0	254.3	258.0	261.6	265.3
105°	296.9	319.9	342.9	352.8	350.1	347.3	344.5	341.7	344.5	347.3	350.1
107.5°	453.0	449.4	445.8	442.8	440.6	438.4	436.1	433.9	436.1	438.4	440.6
110°	511.5	508.7	505.9	503.5	501.4	499.4	497.4	495.3	497.4	499.4	501.4



TEST NUMBER: P332108-940

CATALOG NUMBER: S123DIW-S340D1320U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	569.3	566.5	563.7	561.3	559.5	557.7	555.9	554.0	555.9	557.7	559.5
115°	653.5	651.2	649.0	647.0	645.5	644.0	642.5	641.0	642.5	644.0	645.5
117.5°	736.6	735.3	734.1	732.6	730.8	728.9	727.0	725.1	727.0	728.9	730.8
120°	789.6	788.8	788.1	786.6	784.3	781.9	779.7	777.4	779.7	781.9	784.3
122.5°	841.5	840.5	839.5	838.1	836.2	834.4	832.5	830.6	832.5	834.4	836.2
125°	915.3	914.2	913.2	911.7	909.6	907.6	905.5	903.5	905.5	907.6	909.6
127.5°	986.4	985.2	983.9	982.3	980.3	978.2	976.2	974.1	976.2	978.2	980.3
130°	1029.9	1028.9	1027.9	1026.4	1024.3	1022.3	1020.2	1018.2	1020.2	1022.3	1024.3
132.5°	1071.6	1070.8	1070.0	1068.5	1066.5	1064.4	1062.4	1060.3	1062.4	1064.4	1066.5
135°	1134.3	1133.2	1132.2	1131.0	1129.4	1127.8	1126.3	1124.8	1126.3	1127.8	1129.4
137.5°	1190.0	1189.4	1188.8	1187.6	1185.6	1183.7	1181.8	1179.8	1181.8	1183.7	1185.6
140°	1225.3	1224.6	1223.8	1222.6	1221.1	1219.6	1218.1	1216.6	1218.1	1219.6	1221.1
142.5°	1259.3	1258.5	1257.8	1256.6	1255.1	1253.6	1252.0	1250.4	1252.0	1253.6	1255.1
145°	1307.2	1306.7	1306.2	1305.1	1303.3	1301.5	1299.8	1298.0	1299.8	1301.5	1303.3
147.5°	1349.2	1348.7	1348.2	1347.4	1346.1	1345.0	1343.8	1342.6	1343.8	1345.0	1346.1
150°	1374.8	1374.4	1373.9	1373.2	1372.4	1371.7	1370.9	1370.2	1370.9	1371.7	1372.4
152.5°	1397.3	1397.0	1396.7	1396.3	1396.0	1395.6	1395.3	1394.9	1395.3	1395.6	1396.0
155°	1428.2	1427.9	1427.6	1427.7	1428.3	1428.8	1429.3	1429.8	1429.3	1428.8	1428.3
157.5°	1456.0	1456.3	1456.5	1456.6	1456.7	1456.8	1456.8	1456.9	1456.8	1456.8	1456.7
160°	1471.6	1471.9	1472.1	1472.3	1472.6	1472.8	1473.1	1473.4	1473.1	1472.8	1472.6
162.5°	1485.3	1485.6	1485.9	1486.3	1486.9	1487.6	1488.3	1489.0	1488.3	1487.6	1486.9
165°	1503.7	1504.0	1504.2	1504.7	1505.5	1506.2	1507.0	1507.8	1507.0	1506.2	1505.5
167.5°	1517.9	1517.9	1517.9	1518.3	1519.4	1520.4	1521.4	1522.4	1521.4	1520.4	1519.4
170°	1526.1	1526.1	1526.1	1526.6	1527.7	1528.7	1529.6	1530.7	1529.6	1528.7	1527.7
172.5°	1531.2	1531.0	1530.8	1531.3	1532.5	1533.7	1535.0	1536.2	1535.0	1533.7	1532.5
175°	1538.2	1537.9	1537.7	1538.2	1539.4	1540.8	1542.0	1543.3	1542.0	1540.8	1539.4
177.5°	1541.1	1540.9	1540.7	1541.1	1542.1	1543.1	1544.1	1545.2	1544.1	1543.1	1542.1
180°	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3



TEST NUMBER: P332108-940

CATALOG NUMBER: S123DIW-S340D1320U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	421.6	420.4	418.8	416.3	414.3	411.2	411.2	411.6	411.6	411.5	411.2
5°	408.8	405.7	402.0	397.6	393.1	388.4	387.6	385.9	384.8	383.9	382.9
7.5°	395.3	389.8	384.3	378.3	372.6	368.1	364.9	362.2	360.5	358.6	357.3
10°	386.2	379.3	372.9	366.5	359.4	353.7	350.3	347.8	345.9	344.2	343.4
12.5°	375.4	367.6	360.4	354.3	346.6	340.8	337.4	336.3	334.1	330.6	328.8
15°	359.6	352.3	343.8	334.5	330.7	323.7	319.7	317.8	316.6	313.9	313.1
17.5°	346.1	336.6	327.0	320.0	313.1	307.4	305.1	302.8	301.2	299.0	298.3
20°	335.3	326.8	318.1	310.6	303.3	297.0	295.2	293.6	291.9	290.9	290.0
22.5°	324.3	315.8	308.5	301.6	293.8	289.7	287.8	285.9	284.7	284.0	283.2
25°	308.9	301.4	293.3	287.1	280.9	278.1	276.9	275.9	275.0	274.0	273.8
27.5°	295.2	287.0	280.4	274.6	270.1	267.9	266.6	266.2	266.4	266.7	267.0
30°	284.8	277.3	272.0	267.0	262.8	260.7	260.5	260.5	261.4	261.5	262.0
32.5°	275.4	269.2	263.8	259.0	255.8	254.4	255.2	255.2	255.8	256.4	257.2
35°	261.5	256.1	252.0	247.8	245.1	245.8	246.2	246.6	247.6	248.9	249.7
37.5°	248.3	243.7	239.3	236.1	234.9	235.9	237.0	237.8	239.1	240.0	240.9
40°	238.9	235.3	231.2	228.3	228.7	229.3	230.2	231.2	232.3	232.9	233.7
42.5°	230.1	226.4	223.2	220.8	221.4	222.2	222.7	223.2	224.4	225.6	226.0
45°	216.7	213.7	210.9	209.4	209.8	210.3	210.6	211.2	212.3	213.1	213.4
47.5°	201.6	199.6	197.6	196.2	196.9	196.7	197.2	198.6	198.9	199.4	200.5
50°	192.0	190.1	187.8	187.3	187.3	187.3	187.6	189.2	189.2	190.1	190.9
52.5°	181.3	180.1	178.7	177.9	177.5	177.5	178.4	179.2	179.6	180.7	181.6
55°	165.6	164.3	163.1	162.5	162.0	162.5	164.1	164.5	165.6	166.2	166.8
57.5°	149.2	148.2	147.2	146.9	146.8	147.3	148.2	149.5	149.7	151.7	152.6
60°	138.4	136.9	136.1	136.1	135.6	137.5	137.1	139.2	139.6	140.9	142.3
62.5°	127.2	125.3	124.9	124.9	125.6	126.1	126.6	127.5	128.7	130.2	131.3
65°	109.2	108.3	109.7	109.5	109.1	110.3	110.3	111.4	112.6	114.0	116.4
67.5°	92.3	91.8	91.8	91.8	92.5	93.2	93.8	94.7	96.2	97.7	99.2
70°	80.8	81.4	80.4	81.2	81.9	82.0	82.5	83.7	85.3	86.4	88.1
72.5°	69.6	69.6	69.7	70.1	70.7	71.1	71.5	72.9	74.7	75.6	77.0
75°	53.6	53.4	54.0	54.0	55.0	55.5	55.9	56.5	58.1	59.4	60.5
77.5°	39.1	39.4	39.2	39.9	39.7	39.8	41.0	41.6	41.8	44.3	44.9
80°	29.5	29.9	30.1	30.3	30.5	30.1	31.6	32.2	32.2	33.6	34.7
82.5°	21.2	21.4	21.9	22.2	22.2	22.6	22.7	23.2	23.7	24.3	25.7
85°	10.6	11.2	11.4	11.2	11.4	11.0	11.6	11.9	12.0	12.0	12.0
87.5°	5.6	6.3	6.9	7.7	8.2	9.0	9.2	9.1	9.3	10.0	9.5
90°	11.3	14.3	17.6	20.9	24.2	27.6	28.5	29.5	30.6	31.6	32.4
92.5°	18.5	19.4	21.8	24.3	26.8	29.3	30.9	32.6	34.2	35.8	36.8
95°	28.2	24.3	27.1	30.0	32.7	35.6	37.4	39.1	40.9	42.7	43.6
97.5°	121.8	110.3	91.9	73.7	55.3	36.9	39.0	41.0	43.1	45.0	46.2
100°	214.2	196.8	157.1	117.3	77.6	37.8	39.9	41.9	44.0	46.0	47.2
102.5°	269.0	249.1	205.7	162.3	118.9	75.4	69.1	62.8	56.4	50.2	47.3
105°	352.8	342.9	319.9	296.9	274.0	251.1	206.0	160.9	115.8	70.7	48.4
107.5°	442.8	445.8	449.4	453.0	456.6	460.2	427.1	394.1	361.1	328.0	294.4
110°	503.5	505.9	508.7	511.5	514.3	517.1	508.7	500.2	491.9	483.5	461.0



TEST NUMBER: P332108-940

CATALOG NUMBER: S123DIW-S340D1320U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	561.3	563.7	566.5	569.3	572.1	574.9	575.1	575.2	575.3	575.5	571.8
115°	647.0	649.0	651.2	653.5	655.9	658.2	660.7	663.3	665.8	668.3	670.1
117.5°	732.6	734.1	735.3	736.6	737.7	738.9	740.9	743.0	744.9	747.0	748.1
120°	786.6	788.1	788.8	789.6	790.4	791.1	793.2	795.2	797.3	799.3	800.3
122.5°	838.1	839.5	840.5	841.5	842.5	843.5	844.9	846.3	847.7	849.2	850.0
125°	911.7	913.2	914.2	915.3	916.2	917.3	917.7	918.3	918.8	919.3	919.8
127.5°	982.3	983.9	985.2	986.4	987.6	988.8	989.6	990.4	991.2	992.1	992.2
130°	1026.4	1027.9	1028.9	1029.9	1030.9	1031.9	1033.0	1033.9	1035.0	1036.0	1036.3
132.5°	1068.5	1070.0	1070.8	1071.6	1072.4	1073.2	1074.2	1075.2	1076.3	1077.3	1077.5
135°	1131.0	1132.2	1133.2	1134.3	1135.2	1136.3	1137.0	1137.8	1138.5	1139.3	1139.3
137.5°	1187.6	1188.8	1189.4	1190.0	1190.5	1191.1	1192.3	1193.6	1194.7	1196.0	1196.3
140°	1222.6	1223.8	1224.6	1225.3	1226.1	1226.8	1227.9	1228.9	1229.9	1230.9	1231.2
142.5°	1256.6	1257.8	1258.5	1259.3	1260.0	1260.8	1261.6	1262.4	1263.2	1264.1	1264.1
145°	1305.1	1306.2	1306.7	1307.2	1307.8	1308.2	1308.8	1309.3	1309.7	1310.3	1310.5
147.5°	1347.4	1348.2	1348.7	1349.2	1349.7	1350.2	1350.8	1351.2	1351.7	1352.3	1351.9
150°	1373.2	1373.9	1374.4	1374.8	1375.4	1375.9	1376.4	1376.9	1377.4	1378.0	1377.8
152.5°	1396.3	1396.7	1397.0	1397.3	1397.6	1397.9	1398.8	1399.7	1400.7	1401.6	1401.5
155°	1427.7	1427.6	1427.9	1428.2	1428.4	1428.6	1429.9	1431.2	1432.4	1433.8	1433.6
157.5°	1456.6	1456.5	1456.3	1456.0	1455.7	1455.5	1457.0	1458.6	1460.1	1461.6	1461.3
160°	1472.3	1472.1	1471.9	1471.6	1471.3	1471.1	1472.6	1474.1	1475.7	1477.2	1477.0
162.5°	1486.3	1485.9	1485.6	1485.3	1485.1	1484.8	1486.6	1488.3	1490.0	1491.7	1491.8
165°	1504.7	1504.2	1504.0	1503.7	1503.4	1503.2	1505.2	1507.3	1509.3	1511.4	1511.4
167.5°	1518.3	1517.9	1517.9	1517.9	1517.9	1517.9	1519.9	1522.0	1523.9	1526.0	1526.0
170°	1526.6	1526.1	1526.1	1526.1	1526.1	1526.1	1528.1	1530.2	1532.2	1534.3	1534.3
172.5°	1531.3	1530.8	1531.0	1531.2	1531.4	1531.6	1533.7	1535.7	1537.8	1539.8	1539.6
175°	1538.2	1537.7	1537.9	1538.2	1538.5	1538.7	1540.5	1542.3	1544.1	1545.9	1545.7
177.5°	1541.1	1540.7	1540.9	1541.1	1541.2	1541.5	1543.1	1544.7	1546.4	1548.0	1547.8
180°	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3



TEST NUMBER: P332108-940

CATALOG NUMBER: S123DIW-S340D1320U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	410.0	409.8	411.0	410.2	411.0	409.8	410.0	411.2	411.5	411.6	411.6
5°	381.7	382.3	380.1	380.1	380.1	382.3	381.7	382.9	383.9	384.8	385.9
7.5°	356.3	355.4	355.5	354.4	355.5	355.4	356.3	357.3	358.6	360.5	362.2
10°	340.9	339.7	339.2	339.5	339.2	339.7	340.9	343.4	344.2	345.9	347.8
12.5°	328.1	327.9	325.1	325.1	325.1	327.9	328.1	328.8	330.6	334.1	336.3
15°	313.1	309.2	308.7	310.0	308.7	309.2	313.1	313.1	313.9	316.6	317.8
17.5°	298.0	295.9	296.0	295.4	296.0	295.9	298.0	298.3	299.0	301.2	302.8
20°	290.0	288.7	288.6	287.1	288.6	288.7	290.0	290.0	290.9	291.9	293.6
22.5°	282.7	282.3	282.4	280.8	282.4	282.3	282.7	283.2	284.0	284.7	285.9
25°	273.6	274.6	273.8	273.8	273.8	274.6	273.6	273.8	274.0	275.0	275.9
27.5°	267.4	267.4	267.0	267.0	267.0	267.4	267.4	267.0	266.7	266.4	266.2
30°	262.8	262.6	263.0	263.0	263.0	262.6	262.8	262.0	261.5	261.4	260.5
32.5°	258.2	258.4	258.5	258.7	258.5	258.4	258.2	257.2	256.4	255.8	255.2
35°	250.9	251.2	251.8	251.4	251.8	251.2	250.9	249.7	248.9	247.6	246.6
37.5°	241.2	242.2	242.0	242.3	242.0	242.2	241.2	240.9	240.0	239.1	237.8
40°	233.9	234.5	234.3	234.3	234.3	234.5	233.9	233.7	232.9	232.3	231.2
42.5°	226.4	226.9	226.3	226.0	226.3	226.9	226.4	226.0	225.6	224.4	223.2
45°	214.2	213.7	214.4	213.6	214.4	213.7	214.2	213.4	213.1	212.3	211.2
47.5°	200.5	200.9	201.1	201.7	201.1	200.9	200.5	200.5	199.4	198.9	198.6
50°	191.4	192.6	192.6	192.3	192.6	192.6	191.4	190.9	190.1	189.2	189.2
52.5°	182.4	182.9	183.8	183.7	183.8	182.9	182.4	181.6	180.7	179.6	179.2
55°	168.4	168.9	169.3	169.5	169.3	168.9	168.4	166.8	166.2	165.6	164.5
57.5°	154.1	153.9	154.9	155.2	154.9	153.9	154.1	152.6	151.7	149.7	149.5
60°	143.9	143.9	145.6	146.2	145.6	143.9	143.9	142.3	140.9	139.6	139.2
62.5°	133.1	133.8	135.5	134.6	135.5	133.8	133.1	131.3	130.2	128.7	127.5
65°	117.3	119.0	118.9	119.7	118.9	119.0	117.3	116.4	114.0	112.6	111.4
67.5°	100.9	101.9	103.4	103.5	103.4	101.9	100.9	99.2	97.7	96.2	94.7
70°	89.7	90.8	91.6	92.2	91.6	90.8	89.7	88.1	86.4	85.3	83.7
72.5°	78.9	79.5	81.5	80.6	81.5	79.5	78.9	77.0	75.6	74.7	72.9
75°	61.9	63.4	64.6	64.0	64.6	63.4	61.9	60.5	59.4	58.1	56.5
77.5°	45.7	47.3	47.8	47.3	47.8	47.3	45.7	44.9	44.3	41.8	41.6
80°	36.1	35.9	37.2	37.0	37.2	35.9	36.1	34.7	33.6	32.2	32.2
82.5°	26.5	26.3	26.8	27.0	26.8	26.3	26.5	25.7	24.3	23.7	23.2
85°	12.8	13.5	12.7	12.5	12.7	13.5	12.8	12.0	12.0	12.0	11.9
87.5°	9.5	9.6	9.6	9.5	9.6	9.6	9.5	9.5	10.0	9.3	9.1
90°	32.9	33.3	33.9	34.4	33.9	33.3	32.9	32.4	31.6	30.6	29.5
92.5°	37.2	37.5	37.7	38.1	37.7	37.5	37.2	36.8	35.8	34.2	32.6
95°	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	42.7	40.9	39.1
97.5°	46.5	46.7	47.0	47.3	47.0	46.7	46.5	46.2	45.0	43.1	41.0
100°	47.3	47.6	47.9	48.2	47.9	47.6	47.3	47.2	46.0	44.0	41.9
102.5°	47.7	48.2	48.6	49.0	48.6	48.2	47.7	47.3	50.2	56.4	62.8
105°	49.0	49.4	49.9	50.5	49.9	49.4	49.0	48.4	70.7	115.8	160.9
107.5°	260.5	226.4	192.4	158.5	192.4	226.4	260.5	294.4	328.0	361.1	394.1
110°	424.6	388.2	351.8	315.3	351.8	388.2	424.6	461.0	483.5	491.9	500.2



TEST NUMBER: P332108-940

CATALOG NUMBER: S123DIW-S340D1320U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	564.0	556.3	548.7	541.0	548.7	556.3	564.0	571.8	575.5	575.3	575.2
115°	671.1	672.2	673.2	674.2	673.2	672.2	671.1	670.1	668.3	665.8	663.3
117.5°	748.3	748.5	748.8	748.9	748.8	748.5	748.3	748.1	747.0	744.9	743.0
120°	800.3	800.3	800.3	800.3	800.3	800.3	800.3	800.3	799.3	797.3	795.2
122.5°	850.2	850.3	850.6	850.8	850.6	850.3	850.2	850.0	849.2	847.7	846.3
125°	920.3	920.9	921.3	921.9	921.3	920.9	920.3	919.8	919.3	918.8	918.3
127.5°	991.8	991.2	990.7	990.2	990.7	991.2	991.8	992.2	992.1	991.2	990.4
130°	1035.7	1035.3	1034.7	1034.2	1034.7	1035.3	1035.7	1036.3	1036.0	1035.0	1033.9
132.5°	1076.7	1076.0	1075.3	1074.6	1075.3	1076.0	1076.7	1077.5	1077.3	1076.3	1075.2
135°	1138.5	1137.8	1137.0	1136.3	1137.0	1137.8	1138.5	1139.3	1139.3	1138.5	1137.8
137.5°	1195.8	1195.3	1194.8	1194.3	1194.8	1195.3	1195.8	1196.3	1196.0	1194.7	1193.6
140°	1230.7	1230.1	1229.7	1229.1	1229.7	1230.1	1230.7	1231.2	1230.9	1229.9	1228.9
142.5°	1263.4	1262.7	1261.9	1261.2	1261.9	1262.7	1263.4	1264.1	1264.1	1263.2	1262.4
145°	1310.5	1310.5	1310.5	1310.5	1310.5	1310.5	1310.5	1310.5	1310.3	1309.7	1309.3
147.5°	1350.8	1349.6	1348.4	1347.2	1348.4	1349.6	1350.8	1351.9	1352.3	1351.7	1351.2
150°	1377.1	1376.3	1375.6	1374.8	1375.6	1376.3	1377.1	1377.8	1378.0	1377.4	1376.9
152.5°	1400.3	1399.1	1397.9	1396.8	1397.9	1399.1	1400.3	1401.5	1401.6	1400.7	1399.7
155°	1432.1	1430.6	1429.1	1427.5	1429.1	1430.6	1432.1	1433.6	1433.8	1432.4	1431.2
157.5°	1459.4	1457.4	1455.4	1453.4	1455.4	1457.4	1459.4	1461.3	1461.6	1460.1	1458.6
160°	1475.2	1473.5	1471.7	1469.9	1471.7	1473.5	1475.2	1477.0	1477.2	1475.7	1474.1
162.5°	1490.2	1488.7	1487.1	1485.5	1487.1	1488.7	1490.2	1491.8	1491.7	1490.0	1488.3
165°	1509.7	1507.9	1506.1	1504.3	1506.1	1507.9	1509.7	1511.4	1511.4	1509.3	1507.3
167.5°	1523.9	1522.0	1519.9	1517.9	1519.9	1522.0	1523.9	1526.0	1526.0	1523.9	1522.0
170°	1532.2	1530.2	1528.1	1526.1	1528.1	1530.2	1532.2	1534.3	1534.3	1532.2	1530.2
172.5°	1537.4	1535.2	1532.9	1530.7	1532.9	1535.2	1537.4	1539.6	1539.8	1537.8	1535.7
175°	1543.7	1541.7	1539.6	1537.6	1539.6	1541.7	1543.7	1545.7	1545.9	1544.1	1542.3
177.5°	1545.8	1543.7	1541.7	1539.6	1541.7	1543.7	1545.8	1547.8	1548.0	1546.4	1544.7
180°	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3



TEST NUMBER: P332108-940

CATALOG NUMBER: S123DIW-S340D1320U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	411.2	411.2	414.3	416.3	418.8	420.4	421.6	422.8	424.8	427.4	430.4
5°	387.6	388.4	393.1	397.6	402.0	405.7	408.8	412.6	417.1	422.8	429.0
7.5°	364.9	368.1	372.6	378.3	384.3	389.8	395.3	401.4	408.0	416.2	424.9
10°	350.3	353.7	359.4	366.5	372.9	379.3	386.2	392.8	400.9	410.7	422.0
12.5°	337.4	340.8	346.6	354.3	360.4	367.6	375.4	384.1	393.2	404.8	417.6
15°	319.7	323.7	330.7	334.5	343.8	352.3	359.6	372.0	383.7	395.7	410.5
17.5°	305.1	307.4	313.1	320.0	327.0	336.6	346.1	356.5	368.1	382.8	401.3
20°	295.2	297.0	303.3	310.6	318.1	326.8	335.3	345.7	358.7	374.3	394.3
22.5°	287.8	289.7	293.8	301.6	308.5	315.8	324.3	336.7	350.6	365.9	387.4
25°	276.9	278.1	280.9	287.1	293.3	301.4	308.9	320.6	334.8	352.8	374.3
27.5°	266.6	267.9	270.1	274.6	280.4	287.0	295.2	305.0	319.5	338.9	361.9
30°	260.5	260.7	262.8	267.0	272.0	277.3	284.8	296.0	309.8	329.5	353.6
32.5°	255.2	254.4	255.8	259.0	263.8	269.2	275.4	286.4	299.6	319.0	343.8
35°	246.2	245.8	245.1	247.8	252.0	256.1	261.5	269.8	284.8	302.9	328.9
37.5°	237.0	235.9	234.9	236.1	239.3	243.7	248.3	255.7	268.7	288.6	313.4
40°	230.2	229.3	228.7	228.3	231.2	235.3	238.9	245.9	258.0	276.9	301.4
42.5°	222.7	222.2	221.4	220.8	223.2	226.4	230.1	236.3	248.3	266.1	289.3
45°	210.6	210.3	209.8	209.4	210.9	213.7	216.7	221.2	231.7	248.9	269.8
47.5°	197.2	196.7	196.9	196.2	197.6	199.6	201.6	206.5	216.4	230.4	245.8
50°	187.6	187.3	187.3	187.3	187.8	190.1	192.0	195.7	204.8	218.7	229.8
52.5°	178.4	177.5	177.5	177.9	178.7	180.1	181.3	185.4	193.3	204.8	214.8
55°	164.1	162.5	162.0	162.5	163.1	164.3	165.6	168.9	175.8	184.2	190.1
57.5°	148.2	147.3	146.8	146.9	147.2	148.2	149.2	152.8	158.2	162.6	166.4
60°	137.1	137.5	135.6	136.1	136.1	136.9	138.4	140.6	145.2	148.3	152.0
62.5°	126.6	126.1	125.6	124.9	124.9	125.3	127.2	129.0	133.0	134.6	137.4
65°	110.3	110.3	109.1	109.5	109.7	108.3	109.2	111.4	113.9	114.5	117.2
67.5°	93.8	93.2	92.5	91.8	91.8	91.8	92.3	93.3	95.1	95.4	97.5
70°	82.5	82.0	81.9	81.2	80.4	81.4	80.8	81.9	82.9	83.1	84.4
72.5°	71.5	71.1	70.7	70.1	69.7	69.6	69.6	70.9	71.6	71.3	72.7
75°	55.9	55.5	55.0	54.0	54.0	53.4	53.6	54.4	55.3	54.7	55.9
77.5°	41.0	39.8	39.7	39.9	39.2	39.4	39.1	39.1	39.4	39.4	40.6
80°	31.6	30.1	30.5	30.3	30.1	29.9	29.5	29.7	29.9	30.1	30.8
82.5°	22.7	22.6	22.2	22.2	21.9	21.4	21.2	21.6	21.8	21.7	22.1
85°	11.6	11.0	11.4	11.2	11.4	11.2	10.6	10.6	11.0	10.8	11.2
87.5°	9.2	9.0	8.2	7.7	6.9	6.3	5.6	5.3	4.9	4.4	4.2
90°	28.5	27.6	24.2	20.9	17.6	14.3	11.3	8.8	6.2	3.7	1.2
92.5°	30.9	29.3	26.8	24.3	21.8	19.4	18.5	19.2	19.9	20.6	21.3
95°	37.4	35.6	32.7	30.0	27.1	24.3	28.2	38.6	49.0	59.5	69.9
97.5°	39.0	36.9	55.3	73.7	91.9	110.3	121.8	126.5	131.2	135.9	140.5
100°	39.9	37.8	77.6	117.3	157.1	196.8	214.2	209.0	203.9	198.9	193.8
102.5°	69.1	75.4	118.9	162.3	205.7	249.1	269.0	265.3	261.6	258.0	254.3
105°	206.0	251.1	274.0	296.9	319.9	342.9	352.8	350.1	347.3	344.5	341.7
107.5°	427.1	460.2	456.6	453.0	449.4	445.8	442.8	440.6	438.4	436.1	433.9
110°	508.7	517.1	514.3	511.5	508.7	505.9	503.5	501.4	499.4	497.4	495.3



TEST NUMBER: P332108-940

CATALOG NUMBER: S123DIW-S340D1320U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	575.1	574.9	572.1	569.3	566.5	563.7	561.3	559.5	557.7	555.9	554.0
115°	660.7	658.2	655.9	653.5	651.2	649.0	647.0	645.5	644.0	642.5	641.0
117.5°	740.9	738.9	737.7	736.6	735.3	734.1	732.6	730.8	728.9	727.0	725.1
120°	793.2	791.1	790.4	789.6	788.8	788.1	786.6	784.3	781.9	779.7	777.4
122.5°	844.9	843.5	842.5	841.5	840.5	839.5	838.1	836.2	834.4	832.5	830.6
125°	917.7	917.3	916.2	915.3	914.2	913.2	911.7	909.6	907.6	905.5	903.5
127.5°	989.6	988.8	987.6	986.4	985.2	983.9	982.3	980.3	978.2	976.2	974.1
130°	1033.0	1031.9	1030.9	1029.9	1028.9	1027.9	1026.4	1024.3	1022.3	1020.2	1018.2
132.5°	1074.2	1073.2	1072.4	1071.6	1070.8	1070.0	1068.5	1066.5	1064.4	1062.4	1060.3
135°	1137.0	1136.3	1135.2	1134.3	1133.2	1132.2	1131.0	1129.4	1127.8	1126.3	1124.8
137.5°	1192.3	1191.1	1190.5	1190.0	1189.4	1188.8	1187.6	1185.6	1183.7	1181.8	1179.8
140°	1227.9	1226.8	1226.1	1225.3	1224.6	1223.8	1222.6	1221.1	1219.6	1218.1	1216.6
142.5°	1261.6	1260.8	1260.0	1259.3	1258.5	1257.8	1256.6	1255.1	1253.6	1252.0	1250.4
145°	1308.8	1308.2	1307.8	1307.2	1306.7	1306.2	1305.1	1303.3	1301.5	1299.8	1298.0
147.5°	1350.8	1350.2	1349.7	1349.2	1348.7	1348.2	1347.4	1346.1	1345.0	1343.8	1342.6
150°	1376.4	1375.9	1375.4	1374.8	1374.4	1373.9	1373.2	1372.4	1371.7	1370.9	1370.2
152.5°	1398.8	1397.9	1397.6	1397.3	1397.0	1396.7	1396.3	1396.0	1395.6	1395.3	1394.9
155°	1429.9	1428.6	1428.4	1428.2	1427.9	1427.6	1427.7	1428.3	1428.8	1429.3	1429.8
157.5°	1457.0	1455.5	1455.7	1456.0	1456.3	1456.5	1456.6	1456.7	1456.8	1456.8	1456.9
160°	1472.6	1471.1	1471.3	1471.6	1471.9	1472.1	1472.3	1472.6	1472.8	1473.1	1473.4
162.5°	1486.6	1484.8	1485.1	1485.3	1485.6	1485.9	1486.3	1486.9	1487.6	1488.3	1489.0
165°	1505.2	1503.2	1503.4	1503.7	1504.0	1504.2	1504.7	1505.5	1506.2	1507.0	1507.8
167.5°	1519.9	1517.9	1517.9	1517.9	1517.9	1517.9	1518.3	1519.4	1520.4	1521.4	1522.4
170°	1528.1	1526.1	1526.1	1526.1	1526.1	1526.1	1526.6	1527.7	1528.7	1529.6	1530.7
172.5°	1533.7	1531.6	1531.4	1531.2	1531.0	1530.8	1531.3	1532.5	1533.7	1535.0	1536.2
175°	1540.5	1538.7	1538.5	1538.2	1537.9	1537.7	1538.2	1539.4	1540.8	1542.0	1543.3
177.5°	1543.1	1541.5	1541.2	1541.1	1540.9	1540.7	1541.1	1542.1	1543.1	1544.1	1545.2
180°	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3



TEST NUMBER: P332108-940

CATALOG NUMBER: S123DIW-S340D1320U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	431.4	432.3	435.1	437.1	439.4	440.8	442.0	443.1	444.4	444.7	449.5
5°	433.4	437.5	444.8	450.1	456.8	464.0	469.0	471.4	477.4	482.3	492.3
7.5°	432.8	441.7	452.6	464.0	476.2	487.5	497.3	509.0	517.2	529.7	541.9
10°	432.3	444.2	458.3	472.8	489.8	505.6	519.8	535.6	548.7	565.9	580.6
12.5°	430.8	445.1	464.8	482.0	502.7	524.4	545.4	565.6	577.2	605.9	619.5
15°	427.1	444.2	468.7	494.8	523.3	549.0	575.6	596.8	631.1	656.2	672.3
17.5°	420.1	443.9	473.0	504.5	539.1	573.1	603.2	635.3	671.7	702.1	734.6
20°	416.7	442.9	475.3	510.2	546.2	584.6	618.8	657.5	697.1	727.1	768.7
22.5°	410.5	440.2	475.1	514.0	552.4	592.2	632.3	671.3	717.1	758.3	797.9
25°	400.6	433.7	469.9	513.4	558.4	598.2	646.3	698.0	745.7	798.8	838.2
27.5°	389.9	425.4	461.6	502.0	550.5	597.9	658.3	716.7	775.1	820.8	850.1
30°	381.8	416.3	453.7	494.5	542.4	598.7	666.2	730.0	786.9	826.2	842.6
32.5°	373.0	408.0	441.0	483.8	534.9	598.2	671.2	737.8	787.6	813.7	810.5
35°	359.2	388.4	420.7	461.8	522.0	594.5	674.1	738.5	769.0	763.4	721.0
37.5°	339.2	363.9	395.6	440.6	507.1	586.8	668.2	716.6	714.6	669.0	607.5
40°	326.8	347.8	378.3	425.6	495.4	581.8	659.2	690.5	664.0	600.1	526.6
42.5°	310.5	329.8	360.3	409.0	482.7	571.8	641.7	650.8	598.8	525.4	458.0
45°	285.3	302.3	333.9	384.1	463.4	549.7	599.1	576.8	506.8	431.1	379.8
47.5°	258.1	275.8	306.1	357.8	435.7	516.5	540.0	492.8	420.9	359.4	312.3
50°	240.9	258.0	287.8	339.8	417.0	489.2	499.0	437.9	371.8	317.8	279.2
52.5°	223.7	239.7	268.9	321.3	395.0	457.6	451.7	389.4	328.7	282.6	252.3
55°	198.0	213.1	240.9	290.0	357.1	406.7	385.0	325.6	275.3	239.5	216.4
57.5°	175.0	189.5	213.5	257.8	316.1	350.3	322.5	272.4	232.5	204.9	187.8
60°	159.3	172.2	195.1	236.2	286.9	312.8	285.4	241.2	207.5	185.5	170.1
62.5°	144.5	155.8	176.9	214.3	258.3	280.1	252.4	214.9	186.3	166.7	153.6
65°	122.2	132.3	151.1	180.1	216.2	230.8	206.9	176.6	154.4	139.8	131.1
67.5°	101.7	110.4	126.5	149.4	176.0	186.5	168.4	144.9	128.1	116.5	109.6
70°	88.1	95.6	108.3	128.0	152.0	160.2	143.1	123.8	111.6	102.2	95.8
72.5°	76.6	82.1	93.6	108.9	128.9	135.4	123.5	106.6	95.1	88.1	82.9
75°	58.4	63.0	70.4	82.7	96.6	100.3	91.4	80.8	73.1	68.1	64.2
77.5°	42.1	45.5	50.8	58.4	68.0	71.4	65.8	58.7	53.1	49.8	47.5
80°	31.7	34.5	39.1	45.3	51.1	53.0	49.7	44.2	40.3	38.4	36.6
82.5°	23.5	25.0	27.7	32.0	35.9	38.2	35.4	32.1	30.0	28.3	27.6
85°	11.9	12.7	13.9	15.6	18.1	18.9	17.8	17.0	15.8	14.7	14.7
87.5°	5.1	5.5	6.6	7.4	8.6	9.8	10.3	10.7	11.1	11.2	11.2
90°	3.7	6.2	8.8	11.3	14.3	17.6	20.9	24.2	27.6	28.5	29.5
92.5°	20.6	19.9	19.2	18.5	19.4	21.8	24.3	26.8	29.3	30.9	32.6
95°	59.5	49.0	38.6	28.2	24.3	27.1	30.0	32.7	35.6	37.4	39.1
97.5°	135.9	131.2	126.5	121.8	110.3	91.9	73.7	55.3	36.9	39.0	41.0
100°	198.9	203.9	209.0	214.2	196.8	157.1	117.3	77.6	37.8	39.9	41.9
102.5°	258.0	261.6	265.3	269.0	249.1	205.7	162.3	118.9	75.4	69.1	62.8
105°	344.5	347.3	350.1	352.8	342.9	319.9	296.9	274.0	251.1	206.0	160.9
107.5°	436.1	438.4	440.6	442.8	445.8	449.4	453.0	456.6	460.2	427.1	394.1
110°	497.4	499.4	501.4	503.5	505.9	508.7	511.5	514.3	517.1	508.7	500.2



TEST NUMBER: P332108-940

CATALOG NUMBER: S123DIW-S340D1320U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	555.9	557.7	559.5	561.3	563.7	566.5	569.3	572.1	574.9	575.1	575.2
115°	642.5	644.0	645.5	647.0	649.0	651.2	653.5	655.9	658.2	660.7	663.3
117.5°	727.0	728.9	730.8	732.6	734.1	735.3	736.6	737.7	738.9	740.9	743.0
120°	779.7	781.9	784.3	786.6	788.1	788.8	789.6	790.4	791.1	793.2	795.2
122.5°	832.5	834.4	836.2	838.1	839.5	840.5	841.5	842.5	843.5	844.9	846.3
125°	905.5	907.6	909.6	911.7	913.2	914.2	915.3	916.2	917.3	917.7	918.3
127.5°	976.2	978.2	980.3	982.3	983.9	985.2	986.4	987.6	988.8	989.6	990.4
130°	1020.2	1022.3	1024.3	1026.4	1027.9	1028.9	1029.9	1030.9	1031.9	1033.0	1033.9
132.5°	1062.4	1064.4	1066.5	1068.5	1070.0	1070.8	1071.6	1072.4	1073.2	1074.2	1075.2
135°	1126.3	1127.8	1129.4	1131.0	1132.2	1133.2	1134.3	1135.2	1136.3	1137.0	1137.8
137.5°	1181.8	1183.7	1185.6	1187.6	1188.8	1189.4	1190.0	1190.5	1191.1	1192.3	1193.6
140°	1218.1	1219.6	1221.1	1222.6	1223.8	1224.6	1225.3	1226.1	1226.8	1227.9	1228.9
142.5°	1252.0	1253.6	1255.1	1256.6	1257.8	1258.5	1259.3	1260.0	1260.8	1261.6	1262.4
145°	1299.8	1301.5	1303.3	1305.1	1306.2	1306.7	1307.2	1307.8	1308.2	1308.8	1309.3
147.5°	1343.8	1345.0	1346.1	1347.4	1348.2	1348.7	1349.2	1349.7	1350.2	1350.8	1351.2
150°	1370.9	1371.7	1372.4	1373.2	1373.9	1374.4	1374.8	1375.4	1375.9	1376.4	1376.9
152.5°	1395.3	1395.6	1396.0	1396.3	1396.7	1397.0	1397.3	1397.6	1397.9	1398.8	1399.7
155°	1429.3	1428.8	1428.3	1427.7	1427.6	1427.9	1428.2	1428.4	1428.6	1429.9	1431.2
157.5°	1456.8	1456.8	1456.7	1456.6	1456.5	1456.3	1456.0	1455.7	1455.5	1457.0	1458.6
160°	1473.1	1472.8	1472.6	1472.3	1472.1	1471.9	1471.6	1471.3	1471.1	1472.6	1474.1
162.5°	1488.3	1487.6	1486.9	1486.3	1485.9	1485.6	1485.3	1485.1	1484.8	1486.6	1488.3
165°	1507.0	1506.2	1505.5	1504.7	1504.2	1504.0	1503.7	1503.4	1503.2	1505.2	1507.3
167.5°	1521.4	1520.4	1519.4	1518.3	1517.9	1517.9	1517.9	1517.9	1517.9	1519.9	1522.0
170°	1529.6	1528.7	1527.7	1526.6	1526.1	1526.1	1526.1	1526.1	1526.1	1528.1	1530.2
172.5°	1535.0	1533.7	1532.5	1531.3	1530.8	1531.0	1531.2	1531.4	1531.6	1533.7	1535.7
175°	1542.0	1540.8	1539.4	1538.2	1537.7	1537.9	1538.2	1538.5	1538.7	1540.5	1542.3
177.5°	1544.1	1543.1	1542.1	1541.1	1540.7	1540.9	1541.1	1541.2	1541.5	1543.1	1544.7
180°	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3



TEST NUMBER: P332108-940

CATALOG NUMBER: S123DIW-S340D1320U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	451.2	451.4	453.2	454.5	453.9	454.7	455.0
5°	492.9	500.4	504.4	507.3	507.5	507.7	509.3
7.5°	552.1	560.2	566.1	575.0	577.6	580.6	579.8
10°	595.4	607.3	617.4	622.8	628.7	637.1	630.3
12.5°	635.8	656.7	672.3	680.6	686.1	687.8	684.5
15°	702.4	729.8	744.5	744.1	762.8	770.9	758.2
17.5°	763.4	788.7	809.0	819.4	835.0	838.4	836.9
20°	800.8	828.5	844.3	862.1	870.2	877.4	878.7
22.5°	833.0	857.9	874.9	889.7	896.4	899.9	902.0
25°	866.3	885.8	896.0	901.2	903.0	902.6	899.9
27.5°	864.0	865.5	854.3	843.3	833.4	822.3	818.5
30°	841.5	824.1	792.9	775.3	749.3	728.7	737.1
32.5°	782.6	747.8	712.8	674.2	642.3	633.2	624.0
35°	667.9	606.8	571.1	529.5	512.9	496.3	484.8
37.5°	540.3	493.1	450.7	423.6	406.9	396.4	390.7
40°	467.2	424.6	389.7	367.7	355.0	343.2	341.5
42.5°	408.8	369.3	343.0	325.5	313.3	308.3	304.6
45°	334.8	307.3	289.6	277.1	269.0	265.9	261.7
47.5°	283.5	263.9	250.7	242.2	236.0	233.7	233.4
50°	254.7	238.4	228.7	222.0	217.3	216.4	213.1
52.5°	233.1	219.0	211.4	205.6	202.2	199.8	198.9
55°	202.3	193.0	186.1	182.8	180.1	177.8	177.8
57.5°	177.0	169.2	164.7	161.8	161.0	159.4	158.4
60°	161.4	154.8	151.2	148.7	147.0	147.3	145.4
62.5°	146.2	141.8	138.4	136.0	133.9	134.0	134.1
65°	124.4	121.1	118.6	117.8	116.5	115.1	115.5
67.5°	105.5	102.4	100.4	99.0	98.5	97.7	99.0
70°	91.8	89.5	88.1	86.9	86.4	86.6	87.7
72.5°	79.4	77.8	76.8	76.2	75.3	75.3	76.1
75°	62.3	61.1	60.3	59.7	59.4	59.4	59.4
77.5°	45.7	45.5	45.1	44.2	44.2	44.5	44.5
80°	36.1	35.5	35.3	34.9	34.2	33.9	34.9
82.5°	27.0	26.4	26.2	26.1	25.1	25.1	25.9
85°	14.5	13.9	14.1	13.9	13.9	13.7	13.7
87.5°	11.2	11.3	11.3	11.6	11.5	11.4	11.9
90°	30.6	31.6	32.4	32.9	33.3	33.9	34.4
92.5°	34.2	35.8	36.8	37.2	37.5	37.7	38.1
95°	40.9	42.7	43.6	43.6	43.6	43.6	43.6
97.5°	43.1	45.0	46.2	46.5	46.7	47.0	47.3
100°	44.0	46.0	47.2	47.3	47.6	47.9	48.2
102.5°	56.4	50.2	47.3	47.7	48.2	48.6	49.0
105°	115.8	70.7	48.4	49.0	49.4	49.9	50.5
107.5°	361.1	328.0	294.4	260.5	226.4	192.4	158.5
110°	491.9	483.5	461.0	424.6	388.2	351.8	315.3



TEST NUMBER: P332108-940

CATALOG NUMBER: S123DIW-S340D1320U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	575.3	575.5	571.8	564.0	556.3	548.7	541.0
115°	665.8	668.3	670.1	671.1	672.2	673.2	674.2
117.5°	744.9	747.0	748.1	748.3	748.5	748.8	748.9
120°	797.3	799.3	800.3	800.3	800.3	800.3	800.3
122.5°	847.7	849.2	850.0	850.2	850.3	850.6	850.8
125°	918.8	919.3	919.8	920.3	920.9	921.3	921.9
127.5°	991.2	992.1	992.2	991.8	991.2	990.7	990.2
130°	1035.0	1036.0	1036.3	1035.7	1035.3	1034.7	1034.2
132.5°	1076.3	1077.3	1077.5	1076.7	1076.0	1075.3	1074.6
135°	1138.5	1139.3	1139.3	1138.5	1137.8	1137.0	1136.3
137.5°	1194.7	1196.0	1196.3	1195.8	1195.3	1194.8	1194.3
140°	1229.9	1230.9	1231.2	1230.7	1230.1	1229.7	1229.1
142.5°	1263.2	1264.1	1264.1	1263.4	1262.7	1261.9	1261.2
145°	1309.7	1310.3	1310.5	1310.5	1310.5	1310.5	1310.5
147.5°	1351.7	1352.3	1351.9	1350.8	1349.6	1348.4	1347.2
150°	1377.4	1378.0	1377.8	1377.1	1376.3	1375.6	1374.8
152.5°	1400.7	1401.6	1401.5	1400.3	1399.1	1397.9	1396.8
155°	1432.4	1433.8	1433.6	1432.1	1430.6	1429.1	1427.5
157.5°	1460.1	1461.6	1461.3	1459.4	1457.4	1455.4	1453.4
160°	1475.7	1477.2	1477.0	1475.2	1473.5	1471.7	1469.9
162.5°	1490.0	1491.7	1491.8	1490.2	1488.7	1487.1	1485.5
165°	1509.3	1511.4	1511.4	1509.7	1507.9	1506.1	1504.3
167.5°	1523.9	1526.0	1526.0	1523.9	1522.0	1519.9	1517.9
170°	1532.2	1534.3	1534.3	1532.2	1530.2	1528.1	1526.1
172.5°	1537.8	1539.8	1539.6	1537.4	1535.2	1532.9	1530.7
175°	1544.1	1545.9	1545.7	1543.7	1541.7	1539.6	1537.6
177.5°	1546.4	1548.0	1547.8	1545.8	1543.7	1541.7	1539.6
180°	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3

(END OF REPORT)