

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: P331901-840

Luminaire Tested: **S123DIP-S340D1195U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331901-840
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: S123DIP-S340D1195U840-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1195 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6285.9 lumens
Efficiency: N/A
Efficacy: 149.0 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

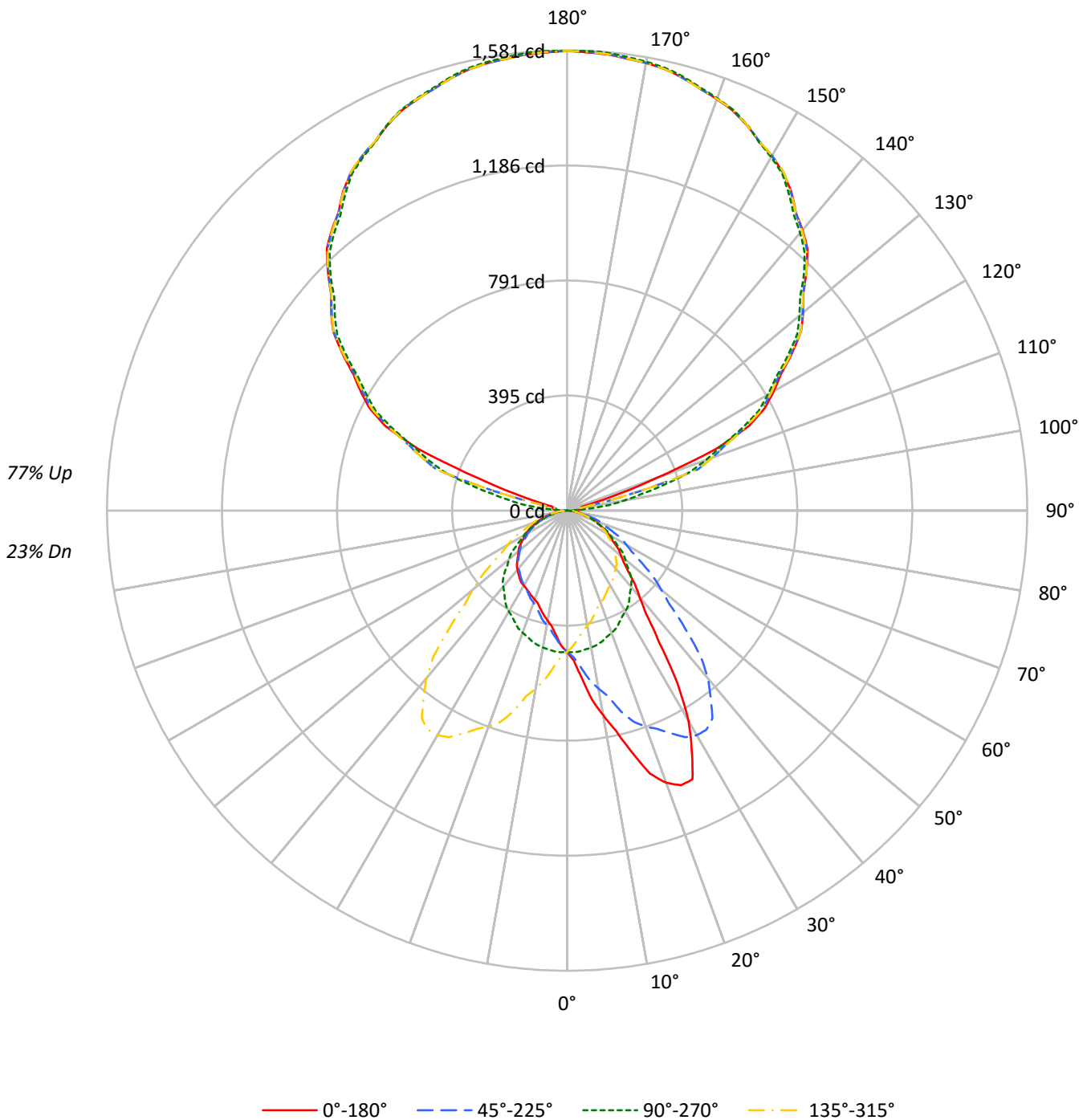
Input Watts (W): 42.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	23
1	92	88	84	81	82	78	75	72	60	58	56	43	42	41	28	27	27	20
2	84	77	71	66	74	68	64	59	53	49	47	38	36	34	25	24	23	17
3	76	67	61	55	68	60	54	50	47	43	39	34	31	29	22	21	20	14
4	70	60	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17	12
5	64	53	45	40	57	47	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	40	34	52	42	36	31	33	28	25	24	21	19	16	14	13	10
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	11	8
8	50	39	31	26	45	35	28	24	27	22	19	20	17	15	13	12	10	8
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	12	11	9	7
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	11	10	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5226	5226	5226	5226
5°	6232	5249	4652	5249
10°	7802	5223	4203	5223
15°	9569	5180	3911	5180
20°	11399	5116	3725	5116
25°	12105	5035	3682	5035
30°	10376	4977	3701	4977
35°	7215	4893	3741	4893
40°	5435	4796	3729	4796
45°	4512	4652	3682	4652
50°	4042	4357	3647	4357
55°	3780	4040	3603	4040
60°	3546	3707	3565	3707
65°	3331	3380	3451	3380
70°	3125	3006	3286	3006
75°	2799	2633	3015	2633
80°	2448	2157	2597	2157
85°	1927	1568	1741	1568



TEST NUMBER: P331901-840

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.8	0.8
10°-20°	153.4	2.4
20°-30°	257.4	4.1
30°-40°	291.5	4.6
40°-50°	261.4	4.2
50°-60°	210.9	3.4
60°-70°	147.0	2.3
70°-80°	77.3	1.2
80°-90°	23.3	0.4
90°-100°	57.4	0.9
100°-110°	273.6	4.4
110°-120°	657.3	10.5
120°-130°	837.0	13.3
130°-140°	894.3	14.2
140°-150°	836.3	13.3
150°-160°	674.6	10.7
160°-170°	435.4	6.9
170°-180°	150.0	2.4
0°-30°	458.6	7.3
0°-40°	750.1	11.9
0°-60°	1222.4	19.4
0°-90°	1470.0	23.4
90°-120°	988.3	15.7
90°-150°	3555.9	56.6
90°-180°	4816.0	76.6
0°-180°	6285.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	486	486	486	486	486	
5°	577	486	430	486	577	60
15°	859	465	351	465	859	248
25°	1019	424	310	424	1019	447
35°	549	372	285	372	549	357
45°	296	306	242	306	296	235
55°	201	215	192	215	201	181
65°	131	133	136	133	131	130
75°	67	63	72	63	67	72
85°	16	13	14	13	16	19
90°	35	1	35	1	35	17
95°	44	72	44	72	44	37
105°	52	350	52	350	52	118
115°	690	656	690	656	690	637
125°	943	924	943	924	943	842
135°	1163	1151	1163	1151	1163	897
145°	1341	1328	1341	1328	1341	837
155°	1461	1463	1461	1463	1461	674
165°	1539	1543	1539	1543	1539	435
175°	1573	1579	1573	1579	1573	150
180°	1579	1579	1579	1579	1579	



TEST NUMBER: P331901-840

CATALOG NUMBER: S123DIP-S340D1195U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	515.3	514.9	514.0	514.7	513.2	511.2	511.0	509.1	503.6	503.3	501.8
5°	576.8	575.0	574.7	574.5	571.2	566.7	558.3	557.5	546.2	540.7	533.8
7.5°	656.6	657.5	654.1	651.2	641.1	634.4	625.3	613.7	599.9	585.7	576.4
10°	713.8	721.5	712.0	705.3	699.2	687.7	674.3	657.5	640.9	621.4	606.5
12.5°	775.2	778.9	777.0	770.8	761.3	743.8	720.0	701.6	686.2	653.7	640.6
15°	858.7	873.0	863.8	842.7	843.1	826.5	795.5	761.3	743.2	714.7	675.9
17.5°	947.8	949.5	945.6	928.0	916.3	893.2	864.5	831.9	795.2	760.7	719.5
20°	995.1	993.7	985.5	976.3	956.1	938.3	907.0	870.5	823.4	789.5	744.6
22.5°	1021.5	1019.2	1015.2	1007.5	990.8	971.6	943.4	903.6	858.8	812.1	760.2
25°	1019.2	1022.2	1022.7	1020.6	1014.7	1003.2	981.1	949.3	904.6	844.6	790.5
27.5°	927.0	931.3	943.8	955.0	967.5	980.2	978.5	962.7	929.6	877.8	811.6
30°	834.8	825.3	848.6	878.0	898.0	933.3	953.0	954.2	935.6	891.2	826.7
32.5°	706.7	717.1	727.4	763.6	807.3	846.9	886.3	917.9	921.5	891.9	835.6
35°	549.1	562.1	580.9	599.7	646.7	687.2	756.4	816.6	864.5	870.9	836.4
37.5°	442.5	448.9	460.8	479.7	510.4	558.5	611.9	688.0	757.6	809.3	811.5
40°	386.8	388.7	402.0	416.4	441.3	480.9	529.1	596.4	679.6	751.9	782.0
42.5°	345.0	349.1	354.9	368.6	388.5	418.2	463.0	518.7	595.0	678.1	737.0
45°	296.4	301.1	304.7	313.9	328.0	348.0	379.2	430.1	488.2	574.0	653.3
47.5°	264.4	264.7	267.3	274.3	283.9	298.9	321.0	353.7	407.0	476.7	558.1
50°	241.4	245.1	246.1	251.5	259.0	270.0	288.4	316.2	359.9	421.1	495.9
52.5°	225.2	226.3	228.9	232.9	239.4	248.0	264.0	285.7	320.0	372.2	441.0
55°	201.4	201.4	204.0	207.0	210.8	218.5	229.1	245.1	271.2	311.7	368.7
57.5°	179.4	180.6	182.4	183.3	186.5	191.7	200.5	212.7	232.1	263.3	308.5
60°	164.7	166.8	166.5	168.4	171.3	175.3	182.8	192.7	210.1	235.0	273.2
62.5°	151.9	151.8	151.7	154.0	156.7	160.6	165.5	174.0	188.8	211.0	243.4
65°	130.8	130.4	132.0	133.4	134.3	137.1	140.9	148.5	158.3	174.8	200.0
67.5°	112.1	110.7	111.6	112.1	113.7	115.9	119.5	124.1	131.9	145.1	164.1
70°	99.3	98.1	97.9	98.4	99.8	101.4	104.0	108.5	115.7	126.3	140.2
72.5°	86.1	85.3	85.2	86.3	86.9	88.1	89.9	93.9	99.8	107.8	120.7
75°	67.3	67.3	67.3	67.6	68.3	69.2	70.6	72.7	77.2	82.8	91.5
77.5°	50.4	50.4	50.1	50.1	51.1	51.5	51.8	53.8	56.4	60.1	66.4
80°	39.5	38.4	38.8	39.5	40.0	40.2	40.9	41.4	43.5	45.6	50.1
82.5°	29.4	28.4	28.5	29.6	29.7	29.9	30.6	31.2	32.0	33.9	36.4
85°	15.6	15.6	15.8	15.8	16.0	15.8	16.5	16.7	16.7	17.9	19.3
87.5°	12.7	12.2	12.3	12.4	12.1	12.1	12.1	12.1	12.0	12.0	11.5
90°	35.2	34.6	34.1	33.6	33.1	32.3	31.3	30.2	29.2	28.2	24.7
92.5°	39.0	38.7	38.4	38.0	37.7	36.8	35.0	33.3	31.7	30.0	27.5
95°	44.5	44.5	44.5	44.5	44.5	43.6	41.8	40.0	38.2	36.4	33.5
97.5°	48.4	48.1	47.9	47.6	47.3	46.2	44.0	41.9	39.9	37.8	56.6
100°	49.3	49.0	48.8	48.5	48.3	47.1	44.9	42.9	40.8	38.7	79.4
102.5°	50.2	49.8	49.3	48.8	48.4	51.3	57.8	64.2	70.7	77.2	121.6
105°	51.6	51.1	50.6	50.1	49.6	72.3	118.5	164.6	210.8	256.9	280.4
107.5°	162.2	196.9	231.7	266.5	301.2	335.6	369.4	403.2	437.1	471.0	467.3
110°	322.7	359.9	397.2	434.5	471.8	494.7	503.3	511.9	520.6	529.2	526.2



TEST NUMBER: P331901-840

CATALOG NUMBER: S123DIP-S340D1195U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	553.5	561.4	569.3	577.1	585.0	589.0	588.8	588.5	588.4	588.2	585.4
115°	689.8	688.8	687.8	686.7	685.7	683.9	681.3	678.6	676.1	673.5	671.2
117.5°	766.4	766.2	766.0	765.8	765.6	764.4	762.3	760.2	758.1	756.1	754.9
120°	818.9	818.9	818.9	818.9	818.9	817.9	815.8	813.7	811.6	809.5	808.8
122.5°	870.6	870.4	870.1	869.9	869.7	868.9	867.5	866.0	864.5	863.0	862.0
125°	943.3	942.8	942.3	941.7	941.2	940.7	940.2	939.7	939.2	938.6	937.6
127.5°	1013.2	1013.8	1014.3	1014.8	1015.3	1015.1	1014.3	1013.5	1012.7	1011.8	1010.6
130°	1058.3	1058.8	1059.3	1059.9	1060.4	1060.2	1059.0	1058.0	1057.0	1055.9	1054.9
132.5°	1099.5	1100.3	1101.1	1101.8	1102.5	1102.4	1101.4	1100.2	1099.2	1098.2	1097.3
135°	1162.8	1163.5	1164.3	1165.1	1165.9	1165.9	1165.1	1164.3	1163.5	1162.8	1161.6
137.5°	1222.0	1222.6	1223.1	1223.7	1224.2	1223.8	1222.5	1221.3	1220.0	1218.8	1218.2
140°	1257.8	1258.3	1258.8	1259.3	1259.8	1259.6	1258.5	1257.5	1256.5	1255.4	1254.7
142.5°	1290.6	1291.3	1292.0	1292.8	1293.5	1293.4	1292.6	1291.8	1291.0	1290.1	1289.4
145°	1341.0	1341.0	1341.0	1341.0	1341.0	1340.8	1340.3	1339.8	1339.2	1338.7	1338.2
147.5°	1378.6	1379.8	1381.0	1382.2	1383.4	1383.7	1383.2	1382.7	1382.2	1381.6	1381.1
150°	1406.7	1407.5	1408.4	1409.1	1409.9	1410.0	1409.5	1409.0	1408.5	1408.0	1407.4
152.5°	1429.3	1430.5	1431.7	1432.9	1434.1	1434.2	1433.3	1432.3	1431.4	1430.5	1430.2
155°	1460.8	1462.3	1463.9	1465.4	1466.9	1467.1	1465.8	1464.5	1463.2	1461.9	1461.7
157.5°	1487.2	1489.2	1491.3	1493.4	1495.4	1495.6	1494.0	1492.5	1491.0	1489.3	1489.7
160°	1504.1	1505.9	1507.8	1509.6	1511.5	1511.6	1510.0	1508.4	1506.9	1505.3	1505.6
162.5°	1520.0	1521.7	1523.3	1524.9	1526.5	1526.5	1524.7	1523.0	1521.2	1519.3	1519.6
165°	1539.3	1541.2	1543.0	1544.8	1546.6	1546.5	1544.4	1542.4	1540.2	1538.1	1538.4
167.5°	1553.2	1555.3	1557.3	1559.4	1561.6	1561.6	1559.4	1557.3	1555.3	1553.2	1553.2
170°	1561.7	1563.7	1565.8	1567.9	1569.9	1569.9	1567.9	1565.8	1563.7	1561.7	1561.7
172.5°	1566.3	1568.6	1570.9	1573.2	1575.5	1575.6	1573.5	1571.5	1569.3	1567.2	1567.0
175°	1573.4	1575.5	1577.5	1579.6	1581.7	1581.9	1580.0	1578.2	1576.4	1574.5	1574.3
177.5°	1575.5	1577.5	1579.6	1581.8	1583.8	1584.0	1582.4	1580.6	1579.0	1577.3	1577.1
180°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2



TEST NUMBER: P331901-840

CATALOG NUMBER: S123DIP-S340D1195U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	500.6	499.2	497.7	495.0	492.7	489.6	488.6	487.5	484.0	481.1	478.8
5°	531.2	525.5	517.4	509.8	503.7	495.4	490.8	485.8	478.8	472.4	467.3
7.5°	563.2	552.1	539.3	525.5	512.6	500.2	490.2	481.2	471.3	462.0	454.6
10°	588.7	572.6	554.7	535.4	519.0	503.0	489.6	477.9	465.1	454.0	444.8
12.5°	617.6	593.9	569.3	545.8	526.3	504.1	487.9	472.9	458.5	445.2	434.9
15°	651.9	621.8	592.6	560.4	530.8	503.0	483.7	464.8	448.2	434.5	421.3
17.5°	683.2	649.0	610.6	571.4	535.6	502.7	475.7	454.4	433.5	416.9	403.7
20°	700.8	662.1	618.5	577.8	538.3	501.6	471.9	446.6	423.9	406.3	391.5
22.5°	716.1	670.7	625.6	582.1	538.1	498.6	464.9	438.8	414.3	397.1	381.3
25°	732.0	677.5	632.4	581.4	532.2	491.2	453.6	423.9	399.5	379.2	363.0
27.5°	745.5	677.1	623.5	568.6	522.8	481.8	441.6	409.8	383.8	361.8	345.4
30°	754.5	678.0	614.3	560.0	513.8	471.5	432.4	400.4	373.1	350.8	335.3
32.5°	760.1	677.4	605.8	547.9	499.5	462.0	422.4	389.3	361.2	339.3	324.4
35°	763.5	673.3	591.2	523.0	476.5	439.9	406.8	372.4	343.1	322.6	305.6
37.5°	756.8	664.6	574.3	499.0	448.0	412.1	384.2	355.0	326.8	304.3	289.6
40°	746.5	658.9	561.1	482.0	428.4	393.8	370.1	341.3	313.6	292.2	278.5
42.5°	726.7	647.5	546.6	463.2	408.1	373.5	351.6	327.6	301.3	281.2	267.6
45°	678.5	622.5	524.8	435.0	378.1	342.3	323.1	305.6	281.9	262.4	250.5
47.5°	611.6	584.9	493.4	405.3	346.7	312.4	292.3	278.3	260.9	245.1	233.9
50°	565.1	554.0	472.2	384.9	325.9	292.2	272.9	260.2	247.7	232.0	221.7
52.5°	511.5	518.3	447.4	363.9	304.6	271.5	253.4	243.3	232.0	218.9	210.0
55°	436.0	460.6	404.5	328.4	272.9	241.4	224.2	215.3	208.6	199.0	191.3
57.5°	365.3	396.7	358.0	292.0	241.8	214.6	198.1	188.4	184.2	179.2	173.0
60°	323.3	354.3	324.9	267.5	221.0	195.0	180.5	172.2	167.9	164.4	159.3
62.5°	285.8	317.2	292.6	242.7	200.4	176.4	163.7	155.6	152.4	150.6	146.1
65°	234.3	261.4	244.9	204.0	171.1	149.9	138.4	132.7	129.7	129.0	126.1
67.5°	190.7	211.3	199.3	169.2	143.3	125.0	115.2	110.4	108.1	107.8	105.6
70°	162.1	181.4	172.2	144.9	122.6	108.3	99.8	95.5	94.1	93.9	92.7
72.5°	139.9	153.3	146.0	123.3	106.0	93.0	86.7	82.3	80.8	81.1	80.3
75°	103.5	113.6	109.4	93.6	79.8	71.3	66.1	63.3	61.9	62.6	61.6
77.5°	74.5	80.9	77.1	66.1	57.6	51.5	47.7	45.9	44.6	44.6	44.2
80°	56.2	60.0	57.9	51.3	44.2	39.1	36.0	34.8	34.1	33.8	33.6
82.5°	40.1	43.2	40.7	36.3	31.4	28.3	26.6	25.0	24.5	24.6	24.4
85°	20.2	21.4	20.5	17.7	15.8	14.3	13.4	12.7	12.2	12.4	12.0
87.5°	11.2	10.7	9.5	8.2	7.3	6.2	5.7	4.7	4.8	5.5	5.8
90°	21.4	18.0	14.6	11.6	9.0	6.4	3.7	1.2	3.7	6.4	9.0
92.5°	24.9	22.4	19.8	18.9	19.6	20.4	21.1	21.8	21.1	20.4	19.6
95°	30.6	27.8	24.9	28.8	39.5	50.2	60.9	71.6	60.9	50.2	39.5
97.5°	75.3	94.1	112.9	124.6	129.5	134.2	139.1	143.8	139.1	134.2	129.5
100°	120.1	160.8	201.4	219.1	213.9	208.7	203.5	198.2	203.5	208.7	213.9
102.5°	166.0	210.5	254.9	275.3	271.5	267.7	264.0	260.2	264.0	267.7	271.5
105°	303.9	327.3	350.8	361.1	358.2	355.4	352.5	349.6	352.5	355.4	358.2
107.5°	463.5	459.9	456.2	453.1	450.8	448.6	446.3	443.9	446.3	448.6	450.8
110°	523.4	520.6	517.7	515.2	513.1	511.0	509.0	506.9	509.0	511.0	513.1



TEST NUMBER: P331901-840

CATALOG NUMBER: S123DIP-S340D1195U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	582.6	579.7	576.8	574.4	572.6	570.7	568.8	566.9	568.8	570.7	572.6
115°	668.7	666.4	664.1	662.1	660.6	658.9	657.4	655.9	657.4	658.9	660.6
117.5°	753.7	752.5	751.2	749.7	747.8	745.8	743.9	741.9	743.9	745.8	747.8
120°	808.0	807.2	806.5	804.9	802.5	800.2	797.8	795.5	797.8	800.2	802.5
122.5°	861.1	860.1	859.1	857.7	855.7	853.7	851.8	849.9	851.8	853.7	855.7
125°	936.5	935.4	934.4	932.9	930.8	928.7	926.7	924.5	926.7	928.7	930.8
127.5°	1009.4	1008.0	1006.8	1005.1	1003.1	1001.0	998.9	996.8	998.9	1001.0	1003.1
130°	1053.9	1052.8	1051.8	1050.2	1048.1	1046.0	1044.0	1041.9	1044.0	1046.0	1048.1
132.5°	1096.5	1095.7	1094.8	1093.4	1091.3	1089.2	1087.1	1085.0	1087.1	1089.2	1091.3
135°	1160.6	1159.6	1158.5	1157.2	1155.7	1154.1	1152.6	1150.9	1152.6	1154.1	1155.7
137.5°	1217.7	1217.1	1216.5	1215.3	1213.3	1211.2	1209.3	1207.3	1209.3	1211.2	1213.3
140°	1253.8	1253.0	1252.2	1251.1	1249.5	1248.0	1246.4	1244.9	1246.4	1248.0	1249.5
142.5°	1288.6	1287.8	1287.0	1285.9	1284.2	1282.7	1281.1	1279.6	1281.1	1282.7	1284.2
145°	1337.7	1337.2	1336.7	1335.4	1333.6	1331.8	1330.0	1328.2	1330.0	1331.8	1333.6
147.5°	1380.6	1380.1	1379.6	1378.7	1377.5	1376.3	1375.1	1373.9	1375.1	1376.3	1377.5
150°	1406.8	1406.3	1405.8	1405.2	1404.4	1403.6	1402.8	1402.1	1402.8	1403.6	1404.4
152.5°	1429.9	1429.5	1429.2	1428.9	1428.5	1428.2	1427.7	1427.4	1427.7	1428.2	1428.5
155°	1461.4	1461.1	1460.9	1461.0	1461.5	1462.0	1462.6	1463.1	1462.6	1462.0	1461.5
157.5°	1489.9	1490.2	1490.4	1490.6	1490.6	1490.7	1490.7	1490.8	1490.7	1490.7	1490.6
160°	1505.8	1506.1	1506.3	1506.6	1506.9	1507.1	1507.4	1507.6	1507.4	1507.1	1506.9
162.5°	1519.9	1520.1	1520.5	1520.9	1521.6	1522.3	1523.0	1523.6	1523.0	1522.3	1521.6
165°	1538.6	1538.9	1539.2	1539.7	1540.5	1541.3	1542.1	1542.9	1542.1	1541.3	1540.5
167.5°	1553.2	1553.2	1553.2	1553.7	1554.8	1555.8	1556.8	1557.9	1556.8	1555.8	1554.8
170°	1561.7	1561.7	1561.7	1562.2	1563.2	1564.3	1565.3	1566.3	1565.3	1564.3	1563.2
172.5°	1566.8	1566.6	1566.4	1566.9	1568.2	1569.4	1570.7	1572.0	1570.7	1569.4	1568.2
175°	1574.0	1573.8	1573.5	1574.0	1575.3	1576.6	1577.9	1579.2	1577.9	1576.6	1575.3
177.5°	1576.9	1576.7	1576.5	1576.9	1578.0	1579.0	1580.0	1581.1	1580.0	1579.0	1578.0
180°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2



TEST NUMBER: P331901-840

CATALOG NUMBER: S123DIP-S340D1195U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	477.5	476.2	474.3	471.5	469.2	465.6	465.6	466.2	466.2	466.1	465.6
5°	463.0	459.5	455.2	450.3	445.1	439.9	439.0	437.1	435.8	434.7	433.6
7.5°	447.7	441.4	435.3	428.4	422.0	416.9	413.2	410.2	408.3	406.2	404.7
10°	437.4	429.6	422.3	415.1	407.0	400.6	396.7	393.8	391.7	389.8	388.9
12.5°	425.2	416.3	408.2	401.2	392.5	386.0	382.1	380.8	378.4	374.4	372.3
15°	407.3	399.0	389.4	378.8	374.6	366.6	362.0	359.9	358.5	355.5	354.6
17.5°	391.9	381.2	370.3	362.4	354.6	348.1	345.6	343.0	341.1	338.6	337.8
20°	379.7	370.1	360.2	351.7	343.5	336.4	334.3	332.4	330.5	329.4	328.4
22.5°	367.3	357.7	349.4	341.5	332.8	328.1	325.9	323.8	322.4	321.6	320.7
25°	349.8	341.3	332.1	325.2	318.1	315.0	313.6	312.5	311.4	310.3	310.0
27.5°	334.3	325.0	317.6	310.9	305.9	303.4	301.9	301.4	301.6	302.1	302.4
30°	322.6	314.1	308.0	302.4	297.6	295.3	295.0	295.0	296.0	296.2	296.7
32.5°	311.8	304.9	298.7	293.3	289.7	288.1	289.0	289.0	289.7	290.3	291.2
35°	296.2	290.0	285.4	280.6	277.6	278.3	278.8	279.2	280.4	281.9	282.8
37.5°	281.2	276.0	271.0	267.4	266.0	267.2	268.4	269.3	270.7	271.9	272.8
40°	270.5	266.5	261.9	258.5	259.0	259.7	260.6	261.9	263.1	263.8	264.7
42.5°	260.5	256.4	252.8	250.0	250.7	251.7	252.2	252.8	254.2	255.5	256.0
45°	245.4	242.1	238.8	237.1	237.6	238.1	238.5	239.2	240.4	241.4	241.7
47.5°	228.3	226.0	223.8	222.2	223.0	222.8	223.4	224.9	225.2	225.8	227.1
50°	217.4	215.3	212.7	212.2	212.2	212.2	212.5	214.3	214.3	215.3	216.2
52.5°	205.3	204.0	202.4	201.5	201.1	201.1	202.1	203.0	203.4	204.7	205.7
55°	187.5	186.1	184.7	184.0	183.5	184.0	185.8	186.3	187.5	188.2	188.9
57.5°	169.0	167.8	166.7	166.3	166.2	166.8	167.8	169.3	169.6	171.8	172.8
60°	156.7	155.0	154.1	154.1	153.6	155.7	155.3	157.6	158.1	159.6	161.2
62.5°	144.1	141.9	141.5	141.5	142.2	142.8	143.4	144.4	145.7	147.4	148.8
65°	123.7	122.6	124.2	124.0	123.5	124.9	124.9	126.1	127.5	129.2	131.8
67.5°	104.5	103.9	104.0	104.0	104.7	105.5	106.2	107.2	109.0	110.7	112.4
70°	91.5	92.2	91.1	92.0	92.7	92.9	93.4	94.8	96.6	97.9	99.8
72.5°	78.9	78.9	79.0	79.4	80.1	80.5	81.0	82.6	84.6	85.6	87.2
75°	60.7	60.5	61.2	61.2	62.3	62.8	63.3	64.0	65.8	67.3	68.5
77.5°	44.3	44.6	44.4	45.2	44.9	45.0	46.5	47.2	47.4	50.2	50.8
80°	33.4	33.8	34.1	34.3	34.5	34.1	35.7	36.5	36.5	38.1	39.3
82.5°	24.0	24.2	24.8	25.1	25.1	25.7	25.8	26.3	26.9	27.6	29.1
85°	12.0	12.7	12.9	12.7	12.9	12.4	13.1	13.4	13.6	13.6	13.6
87.5°	6.1	6.9	7.4	8.2	8.7	9.6	9.8	9.6	9.8	10.6	10.0
90°	11.6	14.6	18.0	21.4	24.7	28.2	29.2	30.2	31.3	32.3	33.1
92.5°	18.9	19.8	22.4	24.9	27.5	30.0	31.7	33.3	35.0	36.8	37.7
95°	28.8	24.9	27.8	30.6	33.5	36.4	38.2	40.0	41.8	43.6	44.5
97.5°	124.6	112.9	94.1	75.3	56.6	37.8	39.9	41.9	44.0	46.2	47.3
100°	219.1	201.4	160.8	120.1	79.4	38.7	40.8	42.9	44.9	47.1	48.3
102.5°	275.3	254.9	210.5	166.0	121.6	77.2	70.7	64.2	57.8	51.3	48.4
105°	361.1	350.8	327.3	303.9	280.4	256.9	210.8	164.6	118.5	72.3	49.6
107.5°	453.1	456.2	459.9	463.5	467.3	471.0	437.1	403.2	369.4	335.6	301.2
110°	515.2	517.7	520.6	523.4	526.2	529.2	520.6	511.9	503.3	494.7	471.8



TEST NUMBER: P331901-840

CATALOG NUMBER: S123DIP-S340D1195U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	574.4	576.8	579.7	582.6	585.4	588.2	588.4	588.5	588.8	589.0	585.0
115°	662.1	664.1	666.4	668.7	671.2	673.5	676.1	678.6	681.3	683.9	685.7
117.5°	749.7	751.2	752.5	753.7	754.9	756.1	758.1	760.2	762.3	764.4	765.6
120°	804.9	806.5	807.2	808.0	808.8	809.5	811.6	813.7	815.8	817.9	818.9
122.5°	857.7	859.1	860.1	861.1	862.0	863.0	864.5	866.0	867.5	868.9	869.7
125°	932.9	934.4	935.4	936.5	937.6	938.6	939.2	939.7	940.2	940.7	941.2
127.5°	1005.1	1006.8	1008.0	1009.4	1010.6	1011.8	1012.7	1013.5	1014.3	1015.1	1015.3
130°	1050.2	1051.8	1052.8	1053.9	1054.9	1055.9	1057.0	1058.0	1059.0	1060.2	1060.4
132.5°	1093.4	1094.8	1095.7	1096.5	1097.3	1098.2	1099.2	1100.2	1101.4	1102.4	1102.5
135°	1157.2	1158.5	1159.6	1160.6	1161.6	1162.8	1163.5	1164.3	1165.1	1165.9	1165.9
137.5°	1215.3	1216.5	1217.1	1217.7	1218.2	1218.8	1220.0	1221.3	1222.5	1223.8	1224.2
140°	1251.1	1252.2	1253.0	1253.8	1254.7	1255.4	1256.5	1257.5	1258.5	1259.6	1259.8
142.5°	1285.9	1287.0	1287.8	1288.6	1289.4	1290.1	1291.0	1291.8	1292.6	1293.4	1293.5
145°	1335.4	1336.7	1337.2	1337.7	1338.2	1338.7	1339.2	1339.8	1340.3	1340.8	1341.0
147.5°	1378.7	1379.6	1380.1	1380.6	1381.1	1381.6	1382.2	1382.7	1383.2	1383.7	1383.4
150°	1405.2	1405.8	1406.3	1406.8	1407.4	1408.0	1408.5	1409.0	1409.5	1410.0	1409.9
152.5°	1428.9	1429.2	1429.5	1429.9	1430.2	1430.5	1431.4	1432.3	1433.3	1434.2	1434.1
155°	1461.0	1460.9	1461.1	1461.4	1461.7	1461.9	1463.2	1464.5	1465.8	1467.1	1466.9
157.5°	1490.6	1490.4	1490.2	1489.9	1489.7	1489.3	1491.0	1492.5	1494.0	1495.6	1495.4
160°	1506.6	1506.3	1506.1	1505.8	1505.6	1505.3	1506.9	1508.4	1510.0	1511.6	1511.5
162.5°	1520.9	1520.5	1520.1	1519.9	1519.6	1519.3	1521.2	1523.0	1524.7	1526.5	1526.5
165°	1539.7	1539.2	1538.9	1538.6	1538.4	1538.1	1540.2	1542.4	1544.4	1546.5	1546.6
167.5°	1553.7	1553.2	1553.2	1553.2	1553.2	1553.2	1555.3	1557.3	1559.4	1561.6	1561.6
170°	1562.2	1561.7	1561.7	1561.7	1561.7	1561.7	1563.7	1565.8	1567.9	1569.9	1569.9
172.5°	1566.9	1566.4	1566.6	1566.8	1567.0	1567.2	1569.3	1571.5	1573.5	1575.6	1575.5
175°	1574.0	1573.5	1573.8	1574.0	1574.3	1574.5	1576.4	1578.2	1580.0	1581.9	1581.7
177.5°	1576.9	1576.5	1576.7	1576.9	1577.1	1577.3	1579.0	1580.6	1582.4	1584.0	1583.8
180°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2



TEST NUMBER: P331901-840

CATALOG NUMBER: S123DIP-S340D1195U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	464.3	464.1	465.4	464.5	465.4	464.1	464.3	465.6	466.1	466.2	466.2
5°	432.2	432.9	430.5	430.5	430.5	432.9	432.2	433.6	434.7	435.8	437.1
7.5°	403.5	402.5	402.6	401.3	402.6	402.5	403.5	404.7	406.2	408.3	410.2
10°	386.1	384.7	384.2	384.5	384.2	384.7	386.1	388.9	389.8	391.7	393.8
12.5°	371.5	371.3	368.2	368.2	368.2	371.3	371.5	372.3	374.4	378.4	380.8
15°	354.6	350.1	349.6	351.0	349.6	350.1	354.6	354.6	355.5	358.5	359.9
17.5°	337.5	335.1	335.3	334.6	335.3	335.1	337.5	337.8	338.6	341.1	343.0
20°	328.4	327.0	326.8	325.2	326.8	327.0	328.4	328.4	329.4	330.5	332.4
22.5°	320.1	319.7	319.8	318.0	319.8	319.7	320.1	320.7	321.6	322.4	323.8
25°	309.8	311.0	310.0	310.0	310.0	311.0	309.8	310.0	310.3	311.4	312.5
27.5°	302.9	302.9	302.4	302.4	302.4	302.9	302.9	302.4	302.1	301.6	301.4
30°	297.6	297.4	297.8	297.8	297.8	297.4	297.6	296.7	296.2	296.0	295.0
32.5°	292.4	292.7	292.8	293.0	292.8	292.7	292.4	291.2	290.3	289.7	289.0
35°	284.2	284.5	285.2	284.7	285.2	284.5	284.2	282.8	281.9	280.4	279.2
37.5°	273.2	274.3	274.1	274.4	274.1	274.3	273.2	272.8	271.9	270.7	269.3
40°	264.9	265.6	265.4	265.4	265.4	265.6	264.9	264.7	263.8	263.1	261.9
42.5°	256.4	256.9	256.3	256.0	256.3	256.9	256.4	256.0	255.5	254.2	252.8
45°	242.6	242.1	242.8	241.9	242.8	242.1	242.6	241.7	241.4	240.4	239.2
47.5°	227.0	227.5	227.7	228.4	227.7	227.5	227.0	227.1	225.8	225.2	224.9
50°	216.7	218.1	218.1	217.8	218.1	218.1	216.7	216.2	215.3	214.3	214.3
52.5°	206.5	207.1	208.1	208.0	208.1	207.1	206.5	205.7	204.7	203.4	203.0
55°	190.8	191.3	191.8	192.0	191.8	191.3	190.8	188.9	188.2	187.5	186.3
57.5°	174.5	174.3	175.4	175.8	175.4	174.3	174.5	172.8	171.8	169.6	169.3
60°	163.0	163.0	164.9	165.6	164.9	163.0	163.0	161.2	159.6	158.1	157.6
62.5°	150.8	151.6	153.4	152.5	153.4	151.6	150.8	148.8	147.4	145.7	144.4
65°	132.9	134.8	134.6	135.5	134.6	134.8	132.9	131.8	129.2	127.5	126.1
67.5°	114.2	115.4	117.1	117.2	117.1	115.4	114.2	112.4	110.7	109.0	107.2
70°	101.6	102.8	103.7	104.4	103.7	102.8	101.6	99.8	97.9	96.6	94.8
72.5°	89.4	90.0	92.3	91.3	92.3	90.0	89.4	87.2	85.6	84.6	82.6
75°	70.1	71.8	73.2	72.5	73.2	71.8	70.1	68.5	67.3	65.8	64.0
77.5°	51.8	53.5	54.1	53.5	54.1	53.5	51.8	50.8	50.2	47.4	47.2
80°	40.9	40.7	42.1	41.9	42.1	40.7	40.9	39.3	38.1	36.5	36.5
82.5°	30.0	29.8	30.4	30.6	30.4	29.8	30.0	29.1	27.6	26.9	26.3
85°	14.5	15.2	14.3	14.1	14.3	15.2	14.5	13.6	13.6	13.6	13.4
87.5°	10.1	10.2	10.1	10.1	10.1	10.2	10.1	10.0	10.6	9.8	9.6
90°	33.6	34.1	34.6	35.2	34.6	34.1	33.6	33.1	32.3	31.3	30.2
92.5°	38.0	38.4	38.7	39.0	38.7	38.4	38.0	37.7	36.8	35.0	33.3
95°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	43.6	41.8	40.0
97.5°	47.6	47.9	48.1	48.4	48.1	47.9	47.6	47.3	46.2	44.0	41.9
100°	48.5	48.8	49.0	49.3	49.0	48.8	48.5	48.3	47.1	44.9	42.9
102.5°	48.8	49.3	49.8	50.2	49.8	49.3	48.8	48.4	51.3	57.8	64.2
105°	50.1	50.6	51.1	51.6	51.1	50.6	50.1	49.6	72.3	118.5	164.6
107.5°	266.5	231.7	196.9	162.2	196.9	231.7	266.5	301.2	335.6	369.4	403.2
110°	434.5	397.2	359.9	322.7	359.9	397.2	434.5	471.8	494.7	503.3	511.9



TEST NUMBER: P331901-840

CATALOG NUMBER: S123DIP-S340D1195U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	577.1	569.3	561.4	553.5	561.4	569.3	577.1	585.0	589.0	588.8	588.5
115°	686.7	687.8	688.8	689.8	688.8	687.8	686.7	685.7	683.9	681.3	678.6
117.5°	765.8	766.0	766.2	766.4	766.2	766.0	765.8	765.6	764.4	762.3	760.2
120°	818.9	818.9	818.9	818.9	818.9	818.9	818.9	818.9	817.9	815.8	813.7
122.5°	869.9	870.1	870.4	870.6	870.4	870.1	869.9	869.7	868.9	867.5	866.0
125°	941.7	942.3	942.8	943.3	942.8	942.3	941.7	941.2	940.7	940.2	939.7
127.5°	1014.8	1014.3	1013.8	1013.2	1013.8	1014.3	1014.8	1015.3	1015.1	1014.3	1013.5
130°	1059.9	1059.3	1058.8	1058.3	1058.8	1059.3	1059.9	1060.4	1060.2	1059.0	1058.0
132.5°	1101.8	1101.1	1100.3	1099.5	1100.3	1101.1	1101.8	1102.5	1102.4	1101.4	1100.2
135°	1165.1	1164.3	1163.5	1162.8	1163.5	1164.3	1165.1	1165.9	1165.9	1165.1	1164.3
137.5°	1223.7	1223.1	1222.6	1222.0	1222.6	1223.1	1223.7	1224.2	1223.8	1222.5	1221.3
140°	1259.3	1258.8	1258.3	1257.8	1258.3	1258.8	1259.3	1259.8	1259.6	1258.5	1257.5
142.5°	1292.8	1292.0	1291.3	1290.6	1291.3	1292.0	1292.8	1293.5	1293.4	1292.6	1291.8
145°	1341.0	1341.0	1341.0	1341.0	1341.0	1341.0	1341.0	1341.0	1340.8	1340.3	1339.8
147.5°	1382.2	1381.0	1379.8	1378.6	1379.8	1381.0	1382.2	1383.4	1383.7	1383.2	1382.7
150°	1409.1	1408.4	1407.5	1406.7	1407.5	1408.4	1409.1	1409.9	1410.0	1409.5	1409.0
152.5°	1432.9	1431.7	1430.5	1429.3	1430.5	1431.7	1432.9	1434.1	1434.2	1433.3	1432.3
155°	1465.4	1463.9	1462.3	1460.8	1462.3	1463.9	1465.4	1466.9	1467.1	1465.8	1464.5
157.5°	1493.4	1491.3	1489.2	1487.2	1489.2	1491.3	1493.4	1495.4	1495.6	1494.0	1492.5
160°	1509.6	1507.8	1505.9	1504.1	1505.9	1507.8	1509.6	1511.5	1511.6	1510.0	1508.4
162.5°	1524.9	1523.3	1521.7	1520.0	1521.7	1523.3	1524.9	1526.5	1526.5	1524.7	1523.0
165°	1544.8	1543.0	1541.2	1539.3	1541.2	1543.0	1544.8	1546.6	1546.5	1544.4	1542.4
167.5°	1559.4	1557.3	1555.3	1553.2	1555.3	1557.3	1559.4	1561.6	1561.6	1559.4	1557.3
170°	1567.9	1565.8	1563.7	1561.7	1563.7	1565.8	1567.9	1569.9	1569.9	1567.9	1565.8
172.5°	1573.2	1570.9	1568.6	1566.3	1568.6	1570.9	1573.2	1575.5	1575.6	1573.5	1571.5
175°	1579.6	1577.5	1575.5	1573.4	1575.5	1577.5	1579.6	1581.7	1581.9	1580.0	1578.2
177.5°	1581.8	1579.6	1577.5	1575.5	1577.5	1579.6	1581.8	1583.8	1584.0	1582.4	1580.6
180°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2



TEST NUMBER: P331901-840

CATALOG NUMBER: S123DIP-S340D1195U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	465.6	465.6	469.2	471.5	474.3	476.2	477.5	478.8	481.1	484.0	487.5
5°	439.0	439.9	445.1	450.3	455.2	459.5	463.0	467.3	472.4	478.8	485.8
7.5°	413.2	416.9	422.0	428.4	435.3	441.4	447.7	454.6	462.0	471.3	481.2
10°	396.7	400.6	407.0	415.1	422.3	429.6	437.4	444.8	454.0	465.1	477.9
12.5°	382.1	386.0	392.5	401.2	408.2	416.3	425.2	434.9	445.2	458.5	472.9
15°	362.0	366.6	374.6	378.8	389.4	399.0	407.3	421.3	434.5	448.2	464.8
17.5°	345.6	348.1	354.6	362.4	370.3	381.2	391.9	403.7	416.9	433.5	454.4
20°	334.3	336.4	343.5	351.7	360.2	370.1	379.7	391.5	406.3	423.9	446.6
22.5°	325.9	328.1	332.8	341.5	349.4	357.7	367.3	381.3	397.1	414.3	438.8
25°	313.6	315.0	318.1	325.2	332.1	341.3	349.8	363.0	379.2	399.5	423.9
27.5°	301.9	303.4	305.9	310.9	317.6	325.0	334.3	345.4	361.8	383.8	409.8
30°	295.0	295.3	297.6	302.4	308.0	314.1	322.6	335.3	350.8	373.1	400.4
32.5°	289.0	288.1	289.7	293.3	298.7	304.9	311.8	324.4	339.3	361.2	389.3
35°	278.8	278.3	277.6	280.6	285.4	290.0	296.2	305.6	322.6	343.1	372.4
37.5°	268.4	267.2	266.0	267.4	271.0	276.0	281.2	289.6	304.3	326.8	355.0
40°	260.6	259.7	259.0	258.5	261.9	266.5	270.5	278.5	292.2	313.6	341.3
42.5°	252.2	251.7	250.7	250.0	252.8	256.4	260.5	267.6	281.2	301.3	327.6
45°	238.5	238.1	237.6	237.1	238.8	242.1	245.4	250.5	262.4	281.9	305.6
47.5°	223.4	222.8	223.0	222.2	223.8	226.0	228.3	233.9	245.1	260.9	278.3
50°	212.5	212.2	212.2	212.2	212.7	215.3	217.4	221.7	232.0	247.7	260.2
52.5°	202.1	201.1	201.1	201.5	202.4	204.0	205.3	210.0	218.9	232.0	243.3
55°	185.8	184.0	183.5	184.0	184.7	186.1	187.5	191.3	199.0	208.6	215.3
57.5°	167.8	166.8	166.2	166.3	166.7	167.8	169.0	173.0	179.2	184.2	188.4
60°	155.3	155.7	153.6	154.1	154.1	155.0	156.7	159.3	164.4	167.9	172.2
62.5°	143.4	142.8	142.2	141.5	141.5	141.9	144.1	146.1	150.6	152.4	155.6
65°	124.9	124.9	123.5	124.0	124.2	122.6	123.7	126.1	129.0	129.7	132.7
67.5°	106.2	105.5	104.7	104.0	104.0	103.9	104.5	105.6	107.8	108.1	110.4
70°	93.4	92.9	92.7	92.0	91.1	92.2	91.5	92.7	93.9	94.1	95.5
72.5°	81.0	80.5	80.1	79.4	79.0	78.9	78.9	80.3	81.1	80.8	82.3
75°	63.3	62.8	62.3	61.2	61.2	60.5	60.7	61.6	62.6	61.9	63.3
77.5°	46.5	45.0	44.9	45.2	44.4	44.6	44.3	44.2	44.6	44.6	45.9
80°	35.7	34.1	34.5	34.3	34.1	33.8	33.4	33.6	33.8	34.1	34.8
82.5°	25.8	25.7	25.1	25.1	24.8	24.2	24.0	24.4	24.6	24.5	25.0
85°	13.1	12.4	12.9	12.7	12.9	12.7	12.0	12.0	12.4	12.2	12.7
87.5°	9.8	9.6	8.7	8.2	7.4	6.9	6.1	5.8	5.5	4.8	4.7
90°	29.2	28.2	24.7	21.4	18.0	14.6	11.6	9.0	6.4	3.7	1.2
92.5°	31.7	30.0	27.5	24.9	22.4	19.8	18.9	19.6	20.4	21.1	21.8
95°	38.2	36.4	33.5	30.6	27.8	24.9	28.8	39.5	50.2	60.9	71.6
97.5°	39.9	37.8	56.6	75.3	94.1	112.9	124.6	129.5	134.2	139.1	143.8
100°	40.8	38.7	79.4	120.1	160.8	201.4	219.1	213.9	208.7	203.5	198.2
102.5°	70.7	77.2	121.6	166.0	210.5	254.9	275.3	271.5	267.7	264.0	260.2
105°	210.8	256.9	280.4	303.9	327.3	350.8	361.1	358.2	355.4	352.5	349.6
107.5°	437.1	471.0	467.3	463.5	459.9	456.2	453.1	450.8	448.6	446.3	443.9
110°	520.6	529.2	526.2	523.4	520.6	517.7	515.2	513.1	511.0	509.0	506.9



TEST NUMBER: P331901-840

CATALOG NUMBER: S123DIP-S340D1195U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	588.4	588.2	585.4	582.6	579.7	576.8	574.4	572.6	570.7	568.8	566.9
115°	676.1	673.5	671.2	668.7	666.4	664.1	662.1	660.6	658.9	657.4	655.9
117.5°	758.1	756.1	754.9	753.7	752.5	751.2	749.7	747.8	745.8	743.9	741.9
120°	811.6	809.5	808.8	808.0	807.2	806.5	804.9	802.5	800.2	797.8	795.5
122.5°	864.5	863.0	862.0	861.1	860.1	859.1	857.7	855.7	853.7	851.8	849.9
125°	939.2	938.6	937.6	936.5	935.4	934.4	932.9	930.8	928.7	926.7	924.5
127.5°	1012.7	1011.8	1010.6	1009.4	1008.0	1006.8	1005.1	1003.1	1001.0	998.9	996.8
130°	1057.0	1055.9	1054.9	1053.9	1052.8	1051.8	1050.2	1048.1	1046.0	1044.0	1041.9
132.5°	1099.2	1098.2	1097.3	1096.5	1095.7	1094.8	1093.4	1091.3	1089.2	1087.1	1085.0
135°	1163.5	1162.8	1161.6	1160.6	1159.6	1158.5	1157.2	1155.7	1154.1	1152.6	1150.9
137.5°	1220.0	1218.8	1218.2	1217.7	1217.1	1216.5	1215.3	1213.3	1211.2	1209.3	1207.3
140°	1256.5	1255.4	1254.7	1253.8	1253.0	1252.2	1251.1	1249.5	1248.0	1246.4	1244.9
142.5°	1291.0	1290.1	1289.4	1288.6	1287.8	1287.0	1285.9	1284.2	1282.7	1281.1	1279.6
145°	1339.2	1338.7	1338.2	1337.7	1337.2	1336.7	1335.4	1333.6	1331.8	1330.0	1328.2
147.5°	1382.2	1381.6	1381.1	1380.6	1380.1	1379.6	1378.7	1377.5	1376.3	1375.1	1373.9
150°	1408.5	1408.0	1407.4	1406.8	1406.3	1405.8	1405.2	1404.4	1403.6	1402.8	1402.1
152.5°	1431.4	1430.5	1430.2	1429.9	1429.5	1429.2	1428.9	1428.5	1428.2	1427.7	1427.4
155°	1463.2	1461.9	1461.7	1461.4	1461.1	1460.9	1461.0	1461.5	1462.0	1462.6	1463.1
157.5°	1491.0	1489.3	1489.7	1489.9	1490.2	1490.4	1490.6	1490.6	1490.7	1490.7	1490.8
160°	1506.9	1505.3	1505.6	1505.8	1506.1	1506.3	1506.6	1506.9	1507.1	1507.4	1507.6
162.5°	1521.2	1519.3	1519.6	1519.9	1520.1	1520.5	1520.9	1521.6	1522.3	1523.0	1523.6
165°	1540.2	1538.1	1538.4	1538.6	1538.9	1539.2	1539.7	1540.5	1541.3	1542.1	1542.9
167.5°	1555.3	1553.2	1553.2	1553.2	1553.2	1553.2	1553.7	1554.8	1555.8	1556.8	1557.9
170°	1563.7	1561.7	1561.7	1561.7	1561.7	1561.7	1562.2	1563.2	1564.3	1565.3	1566.3
172.5°	1569.3	1567.2	1567.0	1566.8	1566.6	1566.4	1566.9	1568.2	1569.4	1570.7	1572.0
175°	1576.4	1574.5	1574.3	1574.0	1573.8	1573.5	1574.0	1575.3	1576.6	1577.9	1579.2
177.5°	1579.0	1577.3	1577.1	1576.9	1576.7	1576.5	1576.9	1578.0	1579.0	1580.0	1581.1
180°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2



TEST NUMBER: P331901-840

CATALOG NUMBER: S123DIP-S340D1195U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	488.6	489.6	492.7	495.0	497.7	499.2	500.6	501.8	503.3	503.6	509.1
5°	490.8	495.4	503.7	509.8	517.4	525.5	531.2	533.8	540.7	546.2	557.5
7.5°	490.2	500.2	512.6	525.5	539.3	552.1	563.2	576.4	585.7	599.9	613.7
10°	489.6	503.0	519.0	535.4	554.7	572.6	588.7	606.5	621.4	640.9	657.5
12.5°	487.9	504.1	526.3	545.8	569.3	593.9	617.6	640.6	653.7	686.2	701.6
15°	483.7	503.0	530.8	560.4	592.6	621.8	651.9	675.9	714.7	743.2	761.3
17.5°	475.7	502.7	535.6	571.4	610.6	649.0	683.2	719.5	760.7	795.2	831.9
20°	471.9	501.6	538.3	577.8	618.5	662.1	700.8	744.6	789.5	823.4	870.5
22.5°	464.9	498.6	538.1	582.1	625.6	670.7	716.1	760.2	812.1	858.8	903.6
25°	453.6	491.2	532.2	581.4	632.4	677.5	732.0	790.5	844.6	904.6	949.3
27.5°	441.6	481.8	522.8	568.6	623.5	677.1	745.5	811.6	877.8	929.6	962.7
30°	432.4	471.5	513.8	560.0	614.3	678.0	754.5	826.7	891.2	935.6	954.2
32.5°	422.4	462.0	499.5	547.9	605.8	677.4	760.1	835.6	891.9	921.5	917.9
35°	406.8	439.9	476.5	523.0	591.2	673.3	763.5	836.4	870.9	864.5	816.6
37.5°	384.2	412.1	448.0	499.0	574.3	664.6	756.8	811.5	809.3	757.6	688.0
40°	370.1	393.8	428.4	482.0	561.1	658.9	746.5	782.0	751.9	679.6	596.4
42.5°	351.6	373.5	408.1	463.2	546.6	647.5	726.7	737.0	678.1	595.0	518.7
45°	323.1	342.3	378.1	435.0	524.8	622.5	678.5	653.3	574.0	488.2	430.1
47.5°	292.3	312.4	346.7	405.3	493.4	584.9	611.6	558.1	476.7	407.0	353.7
50°	272.9	292.2	325.9	384.9	472.2	554.0	565.1	495.9	421.1	359.9	316.2
52.5°	253.4	271.5	304.6	363.9	447.4	518.3	511.5	441.0	372.2	320.0	285.7
55°	224.2	241.4	272.9	328.4	404.5	460.6	436.0	368.7	311.7	271.2	245.1
57.5°	198.1	214.6	241.8	292.0	358.0	396.7	365.3	308.5	263.3	232.1	212.7
60°	180.5	195.0	221.0	267.5	324.9	354.3	323.3	273.2	235.0	210.1	192.7
62.5°	163.7	176.4	200.4	242.7	292.6	317.2	285.8	243.4	211.0	188.8	174.0
65°	138.4	149.9	171.1	204.0	244.9	261.4	234.3	200.0	174.8	158.3	148.5
67.5°	115.2	125.0	143.3	169.2	199.3	211.3	190.7	164.1	145.1	131.9	124.1
70°	99.8	108.3	122.6	144.9	172.2	181.4	162.1	140.2	126.3	115.7	108.5
72.5°	86.7	93.0	106.0	123.3	146.0	153.3	139.9	120.7	107.8	99.8	93.9
75°	66.1	71.3	79.8	93.6	109.4	113.6	103.5	91.5	82.8	77.2	72.7
77.5°	47.7	51.5	57.6	66.1	77.1	80.9	74.5	66.4	60.1	56.4	53.8
80°	36.0	39.1	44.2	51.3	57.9	60.0	56.2	50.1	45.6	43.5	41.4
82.5°	26.6	28.3	31.4	36.3	40.7	43.2	40.1	36.4	33.9	32.0	31.2
85°	13.4	14.3	15.8	17.7	20.5	21.4	20.2	19.3	17.9	16.7	16.7
87.5°	5.7	6.2	7.3	8.2	9.5	10.7	11.2	11.5	12.0	12.0	12.1
90°	3.7	6.4	9.0	11.6	14.6	18.0	21.4	24.7	28.2	29.2	30.2
92.5°	21.1	20.4	19.6	18.9	19.8	22.4	24.9	27.5	30.0	31.7	33.3
95°	60.9	50.2	39.5	28.8	24.9	27.8	30.6	33.5	36.4	38.2	40.0
97.5°	139.1	134.2	129.5	124.6	112.9	94.1	75.3	56.6	37.8	39.9	41.9
100°	203.5	208.7	213.9	219.1	201.4	160.8	120.1	79.4	38.7	40.8	42.9
102.5°	264.0	267.7	271.5	275.3	254.9	210.5	166.0	121.6	77.2	70.7	64.2
105°	352.5	355.4	358.2	361.1	350.8	327.3	303.9	280.4	256.9	210.8	164.6
107.5°	446.3	448.6	450.8	453.1	456.2	459.9	463.5	467.3	471.0	437.1	403.2
110°	509.0	511.0	513.1	515.2	517.7	520.6	523.4	526.2	529.2	520.6	511.9



TEST NUMBER: P331901-840

CATALOG NUMBER: S123DIP-S340D1195U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	568.8	570.7	572.6	574.4	576.8	579.7	582.6	585.4	588.2	588.4	588.5
115°	657.4	658.9	660.6	662.1	664.1	666.4	668.7	671.2	673.5	676.1	678.6
117.5°	743.9	745.8	747.8	749.7	751.2	752.5	753.7	754.9	756.1	758.1	760.2
120°	797.8	800.2	802.5	804.9	806.5	807.2	808.0	808.8	809.5	811.6	813.7
122.5°	851.8	853.7	855.7	857.7	859.1	860.1	861.1	862.0	863.0	864.5	866.0
125°	926.7	928.7	930.8	932.9	934.4	935.4	936.5	937.6	938.6	939.2	939.7
127.5°	998.9	1001.0	1003.1	1005.1	1006.8	1008.0	1009.4	1010.6	1011.8	1012.7	1013.5
130°	1044.0	1046.0	1048.1	1050.2	1051.8	1052.8	1053.9	1054.9	1055.9	1057.0	1058.0
132.5°	1087.1	1089.2	1091.3	1093.4	1094.8	1095.7	1096.5	1097.3	1098.2	1099.2	1100.2
135°	1152.6	1154.1	1155.7	1157.2	1158.5	1159.6	1160.6	1161.6	1162.8	1163.5	1164.3
137.5°	1209.3	1211.2	1213.3	1215.3	1216.5	1217.1	1217.7	1218.2	1218.8	1220.0	1221.3
140°	1246.4	1248.0	1249.5	1251.1	1252.2	1253.0	1253.8	1254.7	1255.4	1256.5	1257.5
142.5°	1281.1	1282.7	1284.2	1285.9	1287.0	1287.8	1288.6	1289.4	1290.1	1291.0	1291.8
145°	1330.0	1331.8	1333.6	1335.4	1336.7	1337.2	1337.7	1338.2	1338.7	1339.2	1339.8
147.5°	1375.1	1376.3	1377.5	1378.7	1379.6	1380.1	1380.6	1381.1	1381.6	1382.2	1382.7
150°	1402.8	1403.6	1404.4	1405.2	1405.8	1406.3	1406.8	1407.4	1408.0	1408.5	1409.0
152.5°	1427.7	1428.2	1428.5	1428.9	1429.2	1429.5	1429.9	1430.2	1430.5	1431.4	1432.3
155°	1462.6	1462.0	1461.5	1461.0	1460.9	1461.1	1461.4	1461.7	1461.9	1463.2	1464.5
157.5°	1490.7	1490.7	1490.6	1490.6	1490.4	1490.2	1489.9	1489.7	1489.3	1491.0	1492.5
160°	1507.4	1507.1	1506.9	1506.6	1506.3	1506.1	1505.8	1505.6	1505.3	1506.9	1508.4
162.5°	1523.0	1522.3	1521.6	1520.9	1520.5	1520.1	1519.9	1519.6	1519.3	1521.2	1523.0
165°	1542.1	1541.3	1540.5	1539.7	1539.2	1538.9	1538.6	1538.4	1538.1	1540.2	1542.4
167.5°	1556.8	1555.8	1554.8	1553.7	1553.2	1553.2	1553.2	1553.2	1553.2	1555.3	1557.3
170°	1565.3	1564.3	1563.2	1562.2	1561.7	1561.7	1561.7	1561.7	1561.7	1563.7	1565.8
172.5°	1570.7	1569.4	1568.2	1566.9	1566.4	1566.6	1566.8	1567.0	1567.2	1569.3	1571.5
175°	1577.9	1576.6	1575.3	1574.0	1573.5	1573.8	1574.0	1574.3	1574.5	1576.4	1578.2
177.5°	1580.0	1579.0	1578.0	1576.9	1576.5	1576.7	1576.9	1577.1	1577.3	1579.0	1580.6
180°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2



TEST NUMBER: P331901-840

CATALOG NUMBER: S123DIP-S340D1195U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	511.0	511.2	513.2	514.7	514.0	514.9	515.3
5°	558.3	566.7	571.2	574.5	574.7	575.0	576.8
7.5°	625.3	634.4	641.1	651.2	654.1	657.5	656.6
10°	674.3	687.7	699.2	705.3	712.0	721.5	713.8
12.5°	720.0	743.8	761.3	770.8	777.0	778.9	775.2
15°	795.5	826.5	843.1	842.7	863.8	873.0	858.7
17.5°	864.5	893.2	916.3	928.0	945.6	949.5	947.8
20°	907.0	938.3	956.1	976.3	985.5	993.7	995.1
22.5°	943.4	971.6	990.8	1007.5	1015.2	1019.2	1021.5
25°	981.1	1003.2	1014.7	1020.6	1022.7	1022.2	1019.2
27.5°	978.5	980.2	967.5	955.0	943.8	931.3	927.0
30°	953.0	933.3	898.0	878.0	848.6	825.3	834.8
32.5°	886.3	846.9	807.3	763.6	727.4	717.1	706.7
35°	756.4	687.2	646.7	599.7	580.9	562.1	549.1
37.5°	611.9	558.5	510.4	479.7	460.8	448.9	442.5
40°	529.1	480.9	441.3	416.4	402.0	388.7	386.8
42.5°	463.0	418.2	388.5	368.6	354.9	349.1	345.0
45°	379.2	348.0	328.0	313.9	304.7	301.1	296.4
47.5°	321.0	298.9	283.9	274.3	267.3	264.7	264.4
50°	288.4	270.0	259.0	251.5	246.1	245.1	241.4
52.5°	264.0	248.0	239.4	232.9	228.9	226.3	225.2
55°	229.1	218.5	210.8	207.0	204.0	201.4	201.4
57.5°	200.5	191.7	186.5	183.3	182.4	180.6	179.4
60°	182.8	175.3	171.3	168.4	166.5	166.8	164.7
62.5°	165.5	160.6	156.7	154.0	151.7	151.8	151.9
65°	140.9	137.1	134.3	133.4	132.0	130.4	130.8
67.5°	119.5	115.9	113.7	112.1	111.6	110.7	112.1
70°	104.0	101.4	99.8	98.4	97.9	98.1	99.3
72.5°	89.9	88.1	86.9	86.3	85.2	85.3	86.1
75°	70.6	69.2	68.3	67.6	67.3	67.3	67.3
77.5°	51.8	51.5	51.1	50.1	50.1	50.4	50.4
80°	40.9	40.2	40.0	39.5	38.8	38.4	39.5
82.5°	30.6	29.9	29.7	29.6	28.5	28.4	29.4
85°	16.5	15.8	16.0	15.8	15.8	15.6	15.6
87.5°	12.1	12.1	12.1	12.4	12.3	12.2	12.7
90°	31.3	32.3	33.1	33.6	34.1	34.6	35.2
92.5°	35.0	36.8	37.7	38.0	38.4	38.7	39.0
95°	41.8	43.6	44.5	44.5	44.5	44.5	44.5
97.5°	44.0	46.2	47.3	47.6	47.9	48.1	48.4
100°	44.9	47.1	48.3	48.5	48.8	49.0	49.3
102.5°	57.8	51.3	48.4	48.8	49.3	49.8	50.2
105°	118.5	72.3	49.6	50.1	50.6	51.1	51.6
107.5°	369.4	335.6	301.2	266.5	231.7	196.9	162.2
110°	503.3	494.7	471.8	434.5	397.2	359.9	322.7



TEST NUMBER: P331901-840

CATALOG NUMBER: S123DIP-S340D1195U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	588.8	589.0	585.0	577.1	569.3	561.4	553.5
115°	681.3	683.9	685.7	686.7	687.8	688.8	689.8
117.5°	762.3	764.4	765.6	765.8	766.0	766.2	766.4
120°	815.8	817.9	818.9	818.9	818.9	818.9	818.9
122.5°	867.5	868.9	869.7	869.9	870.1	870.4	870.6
125°	940.2	940.7	941.2	941.7	942.3	942.8	943.3
127.5°	1014.3	1015.1	1015.3	1014.8	1014.3	1013.8	1013.2
130°	1059.0	1060.2	1060.4	1059.9	1059.3	1058.8	1058.3
132.5°	1101.4	1102.4	1102.5	1101.8	1101.1	1100.3	1099.5
135°	1165.1	1165.9	1165.9	1165.1	1164.3	1163.5	1162.8
137.5°	1222.5	1223.8	1224.2	1223.7	1223.1	1222.6	1222.0
140°	1258.5	1259.6	1259.8	1259.3	1258.8	1258.3	1257.8
142.5°	1292.6	1293.4	1293.5	1292.8	1292.0	1291.3	1290.6
145°	1340.3	1340.8	1341.0	1341.0	1341.0	1341.0	1341.0
147.5°	1383.2	1383.7	1383.4	1382.2	1381.0	1379.8	1378.6
150°	1409.5	1410.0	1409.9	1409.1	1408.4	1407.5	1406.7
152.5°	1433.3	1434.2	1434.1	1432.9	1431.7	1430.5	1429.3
155°	1465.8	1467.1	1466.9	1465.4	1463.9	1462.3	1460.8
157.5°	1494.0	1495.6	1495.4	1493.4	1491.3	1489.2	1487.2
160°	1510.0	1511.6	1511.5	1509.6	1507.8	1505.9	1504.1
162.5°	1524.7	1526.5	1526.5	1524.9	1523.3	1521.7	1520.0
165°	1544.4	1546.5	1546.6	1544.8	1543.0	1541.2	1539.3
167.5°	1559.4	1561.6	1561.6	1559.4	1557.3	1555.3	1553.2
170°	1567.9	1569.9	1569.9	1567.9	1565.8	1563.7	1561.7
172.5°	1573.5	1575.6	1575.5	1573.2	1570.9	1568.6	1566.3
175°	1580.0	1581.9	1581.7	1579.6	1577.5	1575.5	1573.4
177.5°	1582.4	1584.0	1583.8	1581.8	1579.6	1577.5	1575.5
180°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2

(END OF REPORT)