

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: P331483

Luminaire Tested: **S122DIW-S290D1240U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331483
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S290D1240U835-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1240 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6262.4 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

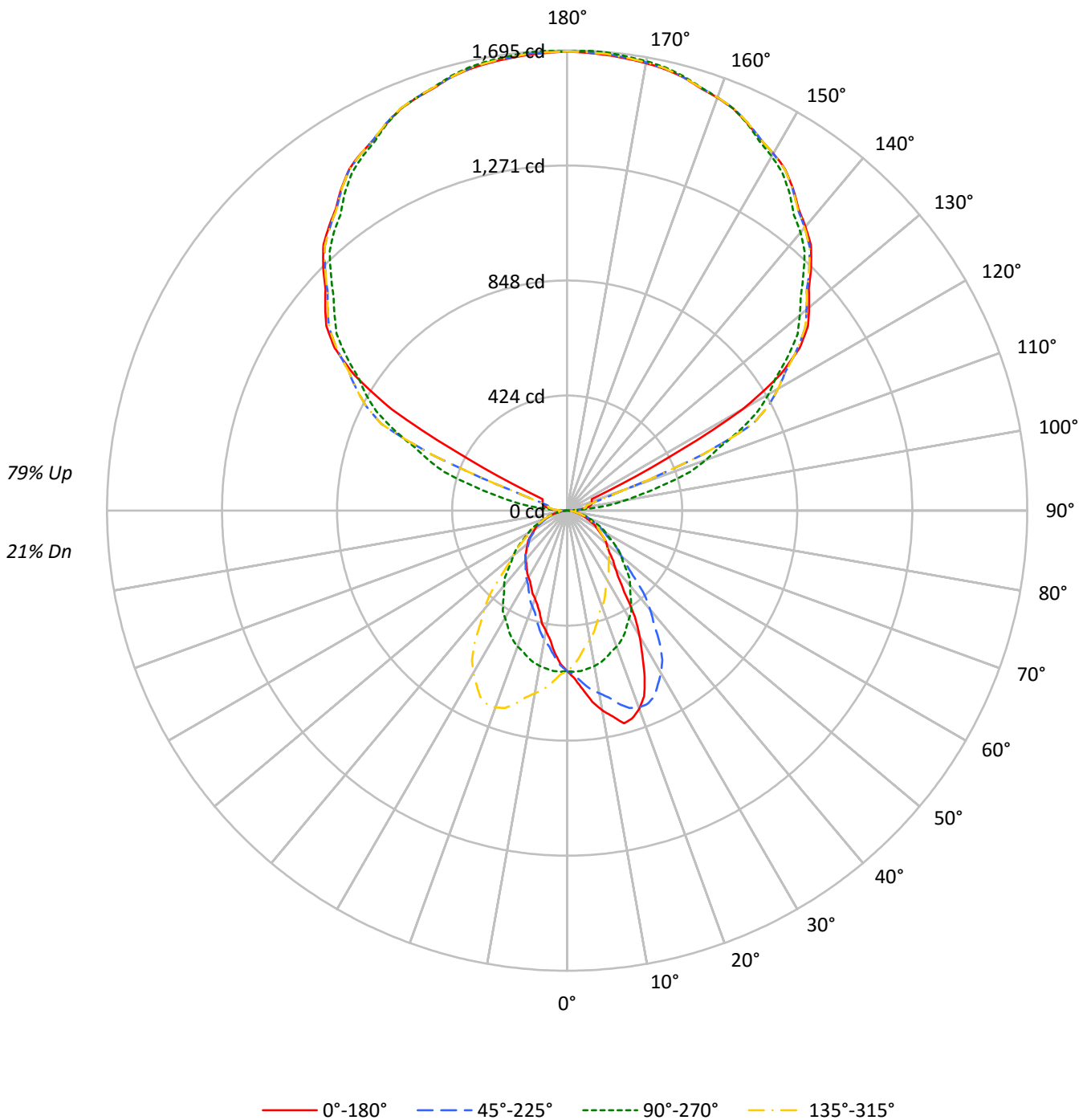
Input Watts (W): 46.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331483

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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	100	100	100	100	89	89	89	89	67	67	67	47	47	47	29	29	29	21
1	91	87	84	80	81	77	74	72	59	57	55	42	41	40	26	26	25	18
2	83	76	71	66	74	68	63	59	52	49	46	37	35	33	23	22	21	15
3	76	67	60	55	67	60	54	50	46	42	39	33	30	28	21	20	18	13
4	70	60	52	47	61	53	47	42	41	36	33	29	27	24	19	17	16	12
5	64	53	45	40	56	47	41	36	36	32	28	26	23	21	17	15	14	10
6	59	47	40	34	52	42	36	31	33	28	25	24	21	19	15	14	12	9
7	54	43	35	30	48	38	32	27	30	25	22	22	19	16	14	12	11	8
8	50	39	31	26	44	35	28	24	27	22	19	20	17	15	13	11	10	7
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	12	10	9	7
10	43	32	25	21	38	29	23	19	23	18	15	17	14	12	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9544	9544	9544	9544
5°	10699	9606	8512	9606
10°	12260	9527	7366	9527
15°	13563	9352	6509	9352
20°	13357	9165	5933	9165
25°	12043	8915	5569	8915
30°	9952	8516	5302	8516
35°	7253	8099	5113	8099
40°	5794	7609	5008	7609
45°	5062	7040	4866	7040
50°	4760	6488	4770	6488
55°	4386	5928	4642	5928
60°	4020	5331	4447	5331
65°	3664	4798	4252	4798
70°	3323	4277	3970	4277
75°	2951	3699	3512	3699
80°	2538	3059	2827	3059
85°	2279	2279	1686	2279



TEST NUMBER: P331483

CATALOG NUMBER: S122DIW-S290D1240U835-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	0.9
10°-20°	163.7	2.6
20°-30°	237.5	3.8
30°-40°	250.6	4.0
40°-50°	221.9	3.5
50°-60°	177.1	2.8
60°-70°	120.4	1.9
70°-80°	61.7	1.0
80°-90°	19.0	0.3
90°-100°	56.4	0.9
100°-110°	206.8	3.3
110°-120°	552.8	8.8
120°-130°	912.5	14.6
130°-140°	970.4	15.5
140°-150°	902.0	14.4
150°-160°	725.2	11.6
160°-170°	467.3	7.5
170°-180°	160.9	2.6
0°-30°	457.5	7.3
0°-40°	708.1	11.3
0°-60°	1107.1	17.7
0°-90°	1308.2	20.9
90°-120°	816.0	13.0
90°-150°	3600.9	57.5
90°-180°	4954.0	79.1
0°-180°	6262.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	591	591	591	591	591	
5°	660	593	525	593	660	66
15°	811	560	389	560	811	224
25°	676	500	313	500	676	306
35°	368	411	259	411	368	239
45°	222	308	213	308	222	174
55°	156	211	165	211	156	140
65°	96	126	111	126	96	95
75°	47	59	56	59	47	51
85°	12	12	9	12	12	14
90°	33	1	33	1	33	15
95°	53	80	53	80	53	49
105°	93	372	93	372	93	97
115°	100	703	100	703	100	251
125°	1046	994	1046	994	1046	905
135°	1271	1231	1271	1231	1271	980
145°	1450	1428	1450	1428	1450	907
155°	1573	1572	1573	1572	1573	726
165°	1653	1656	1653	1656	1653	467
175°	1684	1694	1684	1694	1684	160
180°	1690	1690	1690	1690	1690	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	618.3	618.5	618.9	616.0	615.6	615.6	613.1	610.9	608.3	604.9	605.3
5°	660.1	662.6	663.5	660.8	656.7	656.3	652.4	646.1	640.1	635.4	632.0
7.5°	710.0	711.0	708.8	705.2	702.2	696.7	689.5	682.5	672.6	663.6	656.9
10°	747.8	749.2	745.3	740.1	735.8	729.4	719.0	708.3	695.4	682.9	672.9
12.5°	776.5	779.9	774.9	774.3	766.9	758.1	745.7	740.3	722.1	704.7	693.9
15°	811.4	811.2	811.7	807.3	801.9	800.5	787.4	773.0	747.4	737.1	719.4
17.5°	801.3	804.8	806.4	806.3	806.2	805.3	801.1	792.1	779.2	762.6	742.2
20°	777.4	781.9	782.6	787.8	790.8	794.6	796.2	793.7	785.8	771.9	754.2
22.5°	740.3	741.6	743.7	751.8	758.2	767.9	772.9	781.4	778.3	771.5	756.7
25°	676.0	673.8	681.7	685.8	700.6	716.0	727.2	739.4	750.3	756.9	752.6
27.5°	598.9	595.5	607.4	618.3	630.2	647.0	664.3	684.8	701.8	723.2	730.5
30°	533.8	535.9	547.2	558.8	577.0	600.6	620.2	642.6	667.0	690.8	707.4
32.5°	463.7	471.5	478.7	496.5	512.5	538.8	567.5	595.6	625.9	653.0	678.7
35°	368.0	377.1	387.1	400.0	422.5	448.6	476.6	514.5	555.9	592.9	623.3
37.5°	309.8	308.3	314.0	323.4	341.6	362.7	394.9	432.3	481.0	524.5	567.5
40°	274.9	274.0	278.0	286.7	300.5	316.0	344.2	377.1	422.3	475.5	526.6
42.5°	250.9	251.4	253.7	259.8	269.3	282.0	303.1	331.1	372.5	422.6	477.5
45°	221.7	223.3	225.8	228.8	234.2	244.7	256.5	276.5	309.2	351.0	405.0
47.5°	200.7	200.8	203.3	205.9	209.1	215.0	224.7	237.2	260.3	294.3	340.8
50°	189.5	187.9	189.7	191.7	195.1	199.2	205.6	217.4	232.8	260.3	299.2
52.5°	175.6	175.7	177.3	178.1	181.1	185.2	191.0	199.2	213.2	234.7	266.6
55°	155.8	157.0	157.9	159.2	162.0	164.9	169.5	174.9	185.8	201.9	225.6
57.5°	137.2	137.6	138.5	141.1	142.8	145.5	149.8	154.8	161.9	173.8	191.6
60°	124.5	124.5	126.3	127.4	129.7	132.4	135.8	140.6	147.0	156.7	171.1
62.5°	112.9	112.7	113.4	115.3	117.0	119.5	122.9	127.0	133.0	141.7	153.4
65°	95.9	95.4	96.8	97.2	99.0	101.5	104.3	108.6	113.4	119.7	130.2
67.5°	79.5	80.1	80.8	81.6	82.6	85.3	87.1	90.1	94.2	99.5	106.5
70°	70.4	70.4	70.4	71.1	72.5	73.8	75.6	78.1	82.0	86.5	92.9
72.5°	60.2	61.0	61.7	61.3	63.0	63.8	66.0	67.4	71.1	74.0	79.6
75°	47.3	47.3	47.3	48.4	49.1	49.7	51.1	52.5	54.3	57.9	60.9
77.5°	35.3	35.2	35.4	35.7	36.4	37.2	37.6	38.8	40.5	42.2	44.7
80°	27.3	27.7	27.9	28.4	28.4	28.8	29.1	30.7	31.8	32.9	34.5
82.5°	21.1	21.2	21.2	21.3	21.5	21.8	22.4	22.9	23.3	24.2	25.4
85°	12.3	12.0	12.0	12.5	12.3	12.3	12.7	13.2	13.2	13.4	14.1
87.5°	11.3	11.2	11.3	11.0	10.9	10.9	10.6	10.2	10.1	10.0	9.7
90°	33.0	32.5	31.9	31.4	30.9	29.9	28.5	27.2	25.8	24.5	22.3
92.5°	33.0	32.7	32.4	32.0	31.7	31.2	30.5	29.8	29.1	28.4	27.3
95°	52.6	52.9	53.1	53.4	53.7	53.1	51.8	50.4	49.1	47.7	45.8
97.5°	70.2	69.9	69.6	69.2	68.9	68.2	67.1	66.0	64.9	63.9	59.5
100°	82.0	81.4	80.9	80.3	79.8	78.4	76.2	74.1	71.9	69.7	65.1
102.5°	87.8	87.1	86.3	85.5	84.8	83.0	80.2	77.3	74.5	71.7	110.3
105°	93.0	91.9	90.8	89.7	88.6	86.6	83.6	80.6	77.6	74.6	148.8
107.5°	95.7	94.6	93.5	92.4	91.3	92.3	95.3	98.4	101.4	104.5	193.5
110°	96.6	95.6	94.5	93.4	92.3	105.3	132.5	159.7	186.9	214.1	292.6



TEST NUMBER: P331483

CATALOG NUMBER: S122DIW-S290D1240U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	97.6	96.7	95.9	95.0	94.1	143.3	242.5	341.6	440.8	539.9	559.4
115°	100.3	119.9	139.5	159.0	178.6	251.3	377.2	503.0	628.9	754.8	748.0
117.5°	409.5	473.9	538.2	602.5	666.8	714.2	744.6	775.1	805.5	836.0	831.3
120°	746.2	782.9	819.6	856.3	893.0	909.7	906.4	903.2	899.9	896.6	891.8
122.5°	931.1	938.3	945.4	952.5	959.6	962.2	960.3	958.3	956.3	954.4	949.1
125°	1045.9	1045.1	1044.3	1043.4	1042.6	1041.3	1039.4	1037.5	1035.6	1033.7	1028.5
127.5°	1118.3	1118.1	1118.0	1117.8	1117.7	1116.2	1113.4	1110.6	1107.9	1105.1	1101.2
130°	1163.3	1163.6	1163.9	1164.1	1164.4	1163.0	1160.1	1157.1	1154.1	1151.1	1148.1
132.5°	1207.4	1207.6	1207.9	1208.2	1208.4	1207.3	1204.7	1202.2	1199.6	1197.1	1194.1
135°	1271.0	1271.5	1272.1	1272.6	1273.1	1272.1	1269.3	1266.6	1263.9	1261.2	1258.7
137.5°	1328.9	1329.9	1330.8	1331.7	1332.6	1331.8	1329.1	1326.4	1323.8	1321.1	1318.3
140°	1365.2	1366.5	1367.9	1369.2	1370.6	1370.1	1367.6	1365.2	1362.7	1360.3	1357.3
142.5°	1400.4	1401.7	1403.1	1404.5	1405.8	1405.4	1403.2	1400.9	1398.7	1396.5	1393.0
145°	1449.6	1450.9	1452.3	1453.6	1455.0	1454.7	1452.8	1450.9	1449.0	1447.1	1442.5
147.5°	1492.9	1494.0	1495.1	1496.3	1497.4	1497.3	1495.9	1494.5	1493.1	1491.6	1487.1
150°	1519.3	1520.6	1522.0	1523.4	1524.7	1524.6	1523.0	1521.3	1519.7	1518.1	1513.7
152.5°	1541.8	1543.6	1545.4	1547.2	1549.0	1549.1	1547.4	1545.8	1544.2	1542.5	1538.4
155°	1573.1	1575.3	1577.5	1579.6	1581.8	1582.1	1580.5	1578.8	1577.2	1575.6	1572.3
157.5°	1601.7	1603.9	1606.0	1608.1	1610.2	1610.4	1608.5	1606.7	1604.8	1603.0	1600.7
160°	1618.4	1620.3	1622.2	1624.1	1626.0	1626.1	1624.5	1622.9	1621.2	1619.6	1618.0
162.5°	1632.1	1634.4	1636.7	1639.1	1641.4	1641.7	1639.8	1638.0	1636.1	1634.3	1632.9
165°	1652.6	1654.5	1656.4	1658.3	1660.2	1660.2	1658.3	1656.4	1654.5	1652.6	1651.8
167.5°	1665.6	1668.0	1670.5	1672.9	1675.4	1675.6	1673.7	1671.8	1669.9	1668.0	1667.3
170°	1673.4	1675.9	1678.3	1680.8	1683.2	1683.5	1681.6	1679.7	1677.8	1675.9	1675.3
172.5°	1679.3	1681.7	1684.2	1686.6	1689.1	1689.3	1687.4	1685.5	1683.6	1681.7	1681.2
175°	1684.4	1687.1	1689.9	1692.6	1695.3	1695.7	1693.8	1691.9	1690.0	1688.1	1687.6
177.5°	1687.6	1689.6	1691.5	1693.5	1695.4	1695.7	1694.1	1692.6	1691.1	1689.6	1689.3
180°	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5



TEST NUMBER: P331483

CATALOG NUMBER: S122DIW-S290D1240U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	606.5	605.1	604.2	600.9	598.0	595.1	594.2	594.5	590.5	586.7	585.1
5°	630.2	625.6	621.3	615.2	607.9	599.9	595.9	592.7	584.7	576.1	571.1
7.5°	651.3	644.8	636.5	625.0	614.4	601.9	593.9	586.9	575.3	563.1	555.6
10°	664.2	655.4	644.7	630.6	617.7	602.4	591.8	581.1	567.5	552.9	543.8
12.5°	675.3	663.4	652.9	634.8	619.5	600.4	587.8	572.7	558.4	541.1	532.2
15°	701.7	679.7	659.7	639.2	620.4	593.8	579.7	559.5	540.7	519.3	509.1
17.5°	722.1	697.3	665.9	639.9	617.9	588.4	567.8	543.6	521.3	496.9	483.0
20°	733.7	705.3	671.5	640.6	614.3	580.6	558.1	533.4	507.3	479.8	464.8
22.5°	740.6	710.8	677.3	637.9	607.0	574.3	546.0	518.8	492.4	462.7	447.0
25°	742.8	715.6	680.1	635.6	597.9	560.9	526.8	500.4	468.4	440.7	417.8
27.5°	732.0	712.5	678.4	631.3	587.4	544.1	506.1	476.3	442.5	412.4	389.3
30°	718.7	707.4	674.2	627.0	579.0	532.5	490.7	456.8	423.2	392.8	369.1
32.5°	698.2	695.8	666.6	620.8	570.1	517.8	474.5	440.3	403.0	373.1	350.6
35°	657.9	668.8	650.4	607.0	553.4	496.8	450.0	410.9	372.3	343.7	322.6
37.5°	603.8	630.9	626.1	586.8	530.7	474.0	422.3	381.5	344.7	315.8	295.1
40°	566.5	601.1	606.1	571.3	514.8	456.4	401.6	361.0	325.1	298.7	277.8
42.5°	526.6	566.9	580.6	552.8	497.3	437.8	383.1	341.0	305.4	279.8	261.3
45°	459.6	512.9	537.7	521.8	468.2	407.3	351.0	308.3	276.0	251.9	237.6
47.5°	396.9	455.2	488.5	482.9	435.8	375.5	319.8	278.8	247.4	228.2	215.4
50°	352.6	412.5	452.7	454.6	412.5	352.8	296.9	258.3	229.4	211.5	201.0
52.5°	314.0	371.3	415.1	424.8	386.5	329.2	276.4	237.9	212.5	196.0	186.7
55°	263.7	312.1	360.7	378.5	347.8	293.3	244.4	210.6	186.7	175.4	167.2
57.5°	219.3	259.6	304.5	324.1	305.2	258.5	212.7	183.3	164.0	154.0	147.7
60°	195.8	227.6	267.6	291.0	274.6	233.1	193.1	165.1	149.2	140.4	134.5
62.5°	174.0	202.2	236.0	257.4	248.5	209.3	173.5	148.8	135.1	126.8	122.5
65°	143.6	165.8	192.0	211.7	205.8	176.1	146.7	125.6	114.7	108.1	104.7
67.5°	118.2	134.3	152.4	169.7	165.0	143.9	120.4	103.9	95.8	90.1	88.0
70°	102.2	114.5	130.6	144.5	140.6	123.4	104.7	90.6	83.6	78.8	76.8
72.5°	87.0	97.0	109.4	120.7	118.1	103.7	88.2	77.6	72.1	67.7	66.1
75°	65.7	73.4	80.9	88.4	87.7	76.6	67.5	59.3	55.0	51.6	50.9
77.5°	48.5	52.8	57.9	62.3	61.1	54.7	47.6	42.9	39.8	37.5	37.1
80°	37.0	39.5	43.2	46.3	44.8	42.0	36.3	32.9	30.7	28.4	27.5
82.5°	26.9	29.3	31.5	33.3	32.0	29.5	26.0	23.7	22.3	20.8	20.4
85°	14.1	15.4	16.4	16.8	16.4	14.8	13.2	12.3	11.1	10.4	10.2
87.5°	9.5	9.0	8.6	8.5	7.3	6.7	5.4	4.2	4.7	5.1	5.3
90°	20.1	17.9	15.8	13.2	10.2	7.2	4.2	1.2	4.2	7.2	10.2
92.5°	26.2	25.1	24.0	23.6	23.9	24.2	24.4	24.7	24.4	24.2	23.9
95°	43.9	42.0	40.1	43.6	52.6	61.6	70.5	79.5	70.5	61.6	52.6
97.5°	55.0	50.6	46.2	56.7	82.0	107.2	132.5	157.8	132.5	107.2	82.0
100°	60.5	55.9	51.2	67.6	104.8	142.0	179.3	216.5	179.3	142.0	104.8
102.5°	149.0	187.6	226.3	249.6	257.5	265.3	273.2	281.1	273.2	265.3	257.5
105°	223.0	297.3	371.5	404.5	396.3	388.2	380.0	371.9	380.0	388.2	396.3
107.5°	282.5	371.5	460.5	501.7	495.1	488.5	481.9	475.4	481.9	488.5	495.1
110°	371.2	449.8	528.3	564.7	559.0	553.3	547.6	541.9	547.6	553.3	559.0



TEST NUMBER: P331483

CATALOG NUMBER: S122DIW-S290D1240U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	578.8	598.2	617.6	624.8	619.7	614.6	609.6	604.5	609.6	614.6	619.7
115°	741.2	734.4	727.6	721.9	717.2	712.6	708.0	703.4	708.0	712.6	717.2
117.5°	826.6	821.9	817.3	812.4	807.2	802.0	796.9	791.7	796.9	802.0	807.2
120°	886.9	882.0	877.1	872.6	868.5	864.4	860.4	856.3	860.4	864.4	868.5
122.5°	943.7	938.4	933.1	928.3	924.0	919.7	915.4	911.1	915.4	919.7	924.0
125°	1023.3	1018.2	1013.0	1008.6	1005.1	1001.6	998.0	994.5	998.0	1001.6	1005.1
127.5°	1097.4	1093.5	1089.7	1085.8	1081.9	1077.9	1074.0	1070.1	1074.0	1077.9	1081.9
130°	1145.1	1142.1	1139.1	1135.5	1131.1	1126.8	1122.4	1118.1	1122.4	1126.8	1131.1
132.5°	1191.1	1188.1	1185.1	1181.8	1178.1	1174.4	1170.7	1167.0	1170.7	1174.4	1178.1
135°	1256.3	1253.8	1251.4	1248.0	1243.6	1239.3	1234.9	1230.6	1234.9	1239.3	1243.6
137.5°	1315.6	1312.8	1310.0	1307.1	1304.1	1301.0	1298.0	1294.9	1298.0	1301.0	1304.1
140°	1354.3	1351.3	1348.3	1345.7	1343.5	1341.4	1339.2	1337.0	1339.2	1341.4	1343.5
142.5°	1389.6	1386.2	1382.8	1380.1	1378.1	1376.2	1374.2	1372.3	1374.2	1376.2	1378.1
145°	1437.9	1433.3	1428.6	1426.5	1426.7	1427.0	1427.3	1427.5	1427.3	1427.0	1426.7
147.5°	1482.5	1477.9	1473.4	1471.6	1472.6	1473.7	1474.7	1475.7	1474.7	1473.7	1472.6
150°	1509.4	1505.0	1500.7	1499.4	1501.3	1503.3	1505.2	1507.1	1505.2	1503.3	1501.3
152.5°	1534.3	1530.1	1526.0	1525.0	1527.1	1529.2	1531.4	1533.5	1531.4	1529.2	1527.1
155°	1569.0	1565.8	1562.5	1562.1	1564.5	1567.0	1569.4	1571.9	1569.4	1567.0	1564.5
157.5°	1598.4	1596.1	1593.8	1593.7	1595.8	1597.8	1599.9	1602.0	1599.9	1597.8	1595.8
160°	1616.3	1614.7	1613.1	1613.1	1614.7	1616.3	1618.0	1619.6	1618.0	1616.3	1614.7
162.5°	1631.4	1630.0	1628.6	1628.7	1630.4	1632.0	1633.6	1635.3	1633.6	1632.0	1630.4
165°	1651.0	1650.2	1649.4	1649.8	1651.4	1653.0	1654.7	1656.3	1654.7	1653.0	1651.4
167.5°	1666.5	1665.8	1665.0	1665.4	1667.1	1668.7	1670.3	1672.0	1670.3	1668.7	1667.1
170°	1674.8	1674.2	1673.7	1674.2	1675.9	1677.5	1679.1	1680.8	1679.1	1677.5	1675.9
172.5°	1680.6	1680.1	1679.6	1680.1	1681.7	1683.4	1685.0	1686.6	1685.0	1683.4	1681.7
175°	1687.0	1686.5	1685.9	1686.6	1688.5	1690.4	1692.3	1694.2	1692.3	1690.4	1688.5
177.5°	1689.1	1688.9	1688.7	1689.3	1690.9	1692.4	1693.9	1695.4	1693.9	1692.4	1690.9
180°	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5



TEST NUMBER: P331483

CATALOG NUMBER: S122DIW-S290D1240U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	583.3	582.2	578.4	576.4	573.1	570.0	568.0	568.9	569.6	569.3	568.7
5°	566.5	562.2	555.6	550.0	545.9	538.4	535.2	533.6	532.2	530.7	529.1
7.5°	546.6	539.8	530.4	522.3	514.7	505.3	500.0	496.9	493.6	490.0	486.8
10°	532.5	522.9	512.9	501.6	492.5	484.1	476.6	471.6	467.0	462.7	459.6
12.5°	517.6	506.6	494.2	478.7	468.7	456.6	455.5	446.7	439.6	436.9	433.2
15°	493.9	478.4	462.7	444.3	436.4	425.5	418.7	411.8	405.7	401.4	400.3
17.5°	466.9	446.9	431.3	418.1	405.1	393.9	387.6	382.2	377.1	371.4	370.6
20°	446.4	429.1	412.1	400.5	387.1	375.7	368.0	362.6	358.2	354.8	351.9
22.5°	426.9	408.0	392.4	379.8	366.6	357.4	351.3	346.0	342.4	338.7	335.9
25°	395.7	381.0	363.9	349.6	338.7	332.8	327.8	323.3	321.0	318.5	315.3
27.5°	368.4	352.0	336.1	325.0	315.4	310.2	306.6	303.5	301.4	299.9	298.1
30°	349.2	332.6	320.1	309.2	301.2	296.0	293.7	291.9	289.4	288.5	287.6
32.5°	330.6	315.7	305.0	295.5	288.0	284.5	282.5	280.8	278.9	278.0	276.1
35°	304.4	291.9	281.5	276.2	270.1	267.1	265.6	263.3	261.5	260.6	260.3
37.5°	279.7	268.9	262.0	255.3	252.7	250.9	248.7	247.2	246.6	246.5	246.2
40°	263.7	254.9	248.7	243.3	242.2	239.4	237.6	236.3	236.3	236.5	236.3
42.5°	249.2	241.2	235.8	231.1	229.8	228.2	226.3	226.3	226.6	227.4	226.6
45°	227.2	221.5	217.6	215.4	212.9	211.3	211.0	211.7	211.9	212.2	212.9
47.5°	206.9	203.1	199.6	197.1	196.0	195.8	195.5	196.7	197.8	198.2	199.2
50°	194.9	190.6	187.6	186.0	185.1	184.7	185.1	186.5	187.4	188.5	189.2
52.5°	181.5	178.4	176.4	175.1	174.8	175.1	175.1	176.7	178.1	178.6	178.9
55°	162.9	160.6	160.2	158.1	159.0	158.8	159.9	160.8	162.2	163.6	163.8
57.5°	144.3	142.5	141.3	141.5	141.8	142.8	143.7	145.3	146.7	148.2	148.3
60°	132.0	131.1	130.4	130.4	130.8	132.2	133.3	134.9	135.8	136.8	137.4
62.5°	120.7	119.8	119.1	119.5	120.7	121.5	122.8	123.7	124.6	125.5	125.8
65°	102.9	102.5	103.1	103.6	103.8	104.9	106.5	107.2	108.1	108.6	110.2
67.5°	86.5	86.6	86.5	87.1	88.5	88.7	90.2	91.8	92.0	92.9	93.9
70°	75.4	75.9	76.3	76.8	77.9	78.4	79.5	80.2	81.1	81.8	82.5
72.5°	65.2	65.3	65.8	65.7	66.7	67.6	68.6	69.3	70.2	71.1	71.7
75°	50.2	50.2	50.7	50.9	52.0	53.2	52.9	53.4	54.3	55.2	55.7
77.5°	36.7	36.2	36.7	36.9	37.3	38.2	38.4	39.0	40.1	39.8	40.3
80°	27.9	27.3	27.9	28.2	28.2	29.3	29.3	29.8	30.4	29.8	30.4
82.5°	19.9	19.6	20.1	20.2	20.5	20.6	20.9	21.0	21.7	21.4	21.7
85°	10.0	9.8	10.0	9.8	10.0	10.2	10.2	10.0	10.0	10.4	9.8
87.5°	5.7	6.1	6.3	6.7	7.0	7.3	7.3	7.6	7.9	7.8	8.0
90°	13.2	15.8	17.9	20.1	22.3	24.5	25.8	27.2	28.5	29.9	30.9
92.5°	23.6	24.0	25.1	26.2	27.3	28.4	29.1	29.8	30.5	31.2	31.7
95°	43.6	40.1	42.0	43.9	45.8	47.7	49.1	50.4	51.8	53.1	53.7
97.5°	56.7	46.2	50.6	55.0	59.5	63.9	64.9	66.0	67.1	68.2	68.9
100°	67.6	51.2	55.9	60.5	65.1	69.7	71.9	74.1	76.2	78.4	79.8
102.5°	249.6	226.3	187.6	149.0	110.3	71.7	74.5	77.3	80.2	83.0	84.8
105°	404.5	371.5	297.3	223.0	148.8	74.6	77.6	80.6	83.6	86.6	88.6
107.5°	501.7	460.5	371.5	282.5	193.5	104.5	101.4	98.4	95.3	92.3	91.3
110°	564.7	528.3	449.8	371.2	292.6	214.1	186.9	159.7	132.5	105.3	92.3



TEST NUMBER: P331483

CATALOG NUMBER: S122DIW-S290D1240U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	624.8	617.6	598.2	578.8	559.4	539.9	440.8	341.6	242.5	143.3	94.1
115°	721.9	727.6	734.4	741.2	748.0	754.8	628.9	503.0	377.2	251.3	178.6
117.5°	812.4	817.3	821.9	826.6	831.3	836.0	805.5	775.1	744.6	714.2	666.8
120°	872.6	877.1	882.0	886.9	891.8	896.6	899.9	903.2	906.4	909.7	893.0
122.5°	928.3	933.1	938.4	943.7	949.1	954.4	956.3	958.3	960.3	962.2	959.6
125°	1008.6	1013.0	1018.2	1023.3	1028.5	1033.7	1035.6	1037.5	1039.4	1041.3	1042.6
127.5°	1085.8	1089.7	1093.5	1097.4	1101.2	1105.1	1107.9	1110.6	1113.4	1116.2	1117.7
130°	1135.5	1139.1	1142.1	1145.1	1148.1	1151.1	1154.1	1157.1	1160.1	1163.0	1164.4
132.5°	1181.8	1185.1	1188.1	1191.1	1194.1	1197.1	1199.6	1202.2	1204.7	1207.3	1208.4
135°	1248.0	1251.4	1253.8	1256.3	1258.7	1261.2	1263.9	1266.6	1269.3	1272.1	1273.1
137.5°	1307.1	1310.0	1312.8	1315.6	1318.3	1321.1	1323.8	1326.4	1329.1	1331.8	1332.6
140°	1345.7	1348.3	1351.3	1354.3	1357.3	1360.3	1362.7	1365.2	1367.6	1370.1	1370.6
142.5°	1380.1	1382.8	1386.2	1389.6	1393.0	1396.5	1398.7	1400.9	1403.2	1405.4	1405.8
145°	1426.5	1428.6	1433.3	1437.9	1442.5	1447.1	1449.0	1450.9	1452.8	1454.7	1455.0
147.5°	1471.6	1473.4	1477.9	1482.5	1487.1	1491.6	1493.1	1494.5	1495.9	1497.3	1497.4
150°	1499.4	1500.7	1505.0	1509.4	1513.7	1518.1	1519.7	1521.3	1523.0	1524.6	1524.7
152.5°	1525.0	1526.0	1530.1	1534.3	1538.4	1542.5	1544.2	1545.8	1547.4	1549.1	1549.0
155°	1562.1	1562.5	1565.8	1569.0	1572.3	1575.6	1577.2	1578.8	1580.5	1582.1	1581.8
157.5°	1593.7	1593.8	1596.1	1598.4	1600.7	1603.0	1604.8	1606.7	1608.5	1610.4	1610.2
160°	1613.1	1613.1	1614.7	1616.3	1618.0	1619.6	1621.2	1622.9	1624.5	1626.1	1626.0
162.5°	1628.7	1628.6	1630.0	1631.4	1632.9	1634.3	1636.1	1638.0	1639.8	1641.7	1641.4
165°	1649.8	1649.4	1650.2	1651.0	1651.8	1652.6	1654.5	1656.4	1658.3	1660.2	1660.2
167.5°	1665.4	1665.0	1665.8	1666.5	1667.3	1668.0	1669.9	1671.8	1673.7	1675.6	1675.4
170°	1674.2	1673.7	1674.2	1674.8	1675.3	1675.9	1677.8	1679.7	1681.6	1683.5	1683.2
172.5°	1680.1	1679.6	1680.1	1680.6	1681.2	1681.7	1683.6	1685.5	1687.4	1689.3	1689.1
175°	1686.6	1685.9	1686.5	1687.0	1687.6	1688.1	1690.0	1691.9	1693.8	1695.7	1695.3
177.5°	1689.3	1688.7	1688.9	1689.1	1689.3	1689.6	1691.1	1692.6	1694.1	1695.7	1695.4
180°	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5



TEST NUMBER: P331483

CATALOG NUMBER: S122DIW-S290D1240U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	566.9	566.5	566.5	564.9	566.5	566.5	566.9	568.7	569.3	569.6	568.9
5°	525.9	525.2	524.1	525.2	524.1	525.2	525.9	529.1	530.7	532.2	533.6
7.5°	485.3	482.6	482.2	479.5	482.2	482.6	485.3	486.8	490.0	493.6	496.9
10°	455.7	453.9	453.6	449.3	453.6	453.9	455.7	459.6	462.7	467.0	471.6
12.5°	433.2	428.8	429.7	427.2	429.7	428.8	433.2	433.2	436.9	439.6	446.7
15°	394.1	394.1	393.2	389.4	393.2	394.1	394.1	400.3	401.4	405.7	411.8
17.5°	366.1	365.6	363.5	364.6	363.5	365.6	366.1	370.6	371.4	377.1	382.2
20°	349.4	348.0	345.3	345.3	345.3	348.0	349.4	351.9	354.8	358.2	362.6
22.5°	333.6	333.5	330.6	331.5	330.6	333.5	333.6	335.9	338.7	342.4	346.0
25°	315.1	313.3	311.9	312.6	311.9	313.3	315.1	315.3	318.5	321.0	323.3
27.5°	297.5	296.5	296.4	294.6	296.4	296.5	297.5	298.1	299.9	301.4	303.5
30°	287.4	285.1	285.5	284.4	285.5	285.1	287.4	287.6	288.5	289.4	291.9
32.5°	275.7	274.9	274.5	273.5	274.5	274.9	275.7	276.1	278.0	278.9	280.8
35°	259.9	260.1	259.0	259.4	259.0	260.1	259.9	260.3	260.6	261.5	263.3
37.5°	246.0	246.7	246.2	246.3	246.2	246.7	246.0	246.2	246.5	246.6	247.2
40°	236.9	236.9	236.9	237.6	236.9	236.9	236.9	236.3	236.5	236.3	236.3
42.5°	228.2	227.8	227.5	227.4	227.5	227.8	228.2	226.6	227.4	226.6	226.3
45°	213.3	214.0	214.2	213.1	214.2	214.0	213.3	212.9	212.2	211.9	211.7
47.5°	199.8	199.9	199.8	200.8	199.8	199.9	199.8	199.2	198.2	197.8	196.7
50°	190.4	189.9	190.4	189.9	190.4	189.9	190.4	189.2	188.5	187.4	186.5
52.5°	180.4	180.5	180.2	180.1	180.2	180.5	180.4	178.9	178.6	178.1	176.7
55°	164.7	165.1	164.9	164.9	164.9	165.1	164.7	163.8	163.6	162.2	160.8
57.5°	148.5	148.9	149.2	148.2	149.2	148.9	148.5	148.3	148.2	146.7	145.3
60°	137.2	138.3	138.1	137.7	138.1	138.3	137.2	137.4	136.8	135.8	134.9
62.5°	126.8	127.3	127.2	127.1	127.2	127.3	126.8	125.8	125.5	124.6	123.7
65°	110.9	111.3	110.6	111.3	110.6	111.3	110.9	110.2	108.6	108.1	107.2
67.5°	93.6	93.8	94.3	94.6	94.3	93.8	93.6	93.9	92.9	92.0	91.8
70°	82.9	82.7	83.4	84.1	83.4	82.7	82.9	82.5	81.8	81.1	80.2
72.5°	71.6	72.1	71.9	72.4	71.9	72.1	71.6	71.7	71.1	70.2	69.3
75°	55.2	55.9	55.7	56.3	55.7	55.9	55.2	55.7	55.2	54.3	53.4
77.5°	39.9	40.0	39.9	40.3	39.9	40.0	39.9	40.3	39.8	40.1	39.0
80°	30.4	30.0	29.5	30.4	29.5	30.0	30.4	30.4	29.8	30.4	29.8
82.5°	21.2	21.4	21.0	21.0	21.0	21.4	21.2	21.7	21.4	21.7	21.0
85°	9.8	9.5	9.1	9.1	9.1	9.5	9.8	9.8	10.4	10.0	10.0
87.5°	8.1	8.0	8.1	8.1	8.1	8.0	8.1	8.0	7.8	7.9	7.6
90°	31.4	31.9	32.5	33.0	32.5	31.9	31.4	30.9	29.9	28.5	27.2
92.5°	32.0	32.4	32.7	33.0	32.7	32.4	32.0	31.7	31.2	30.5	29.8
95°	53.4	53.1	52.9	52.6	52.9	53.1	53.4	53.7	53.1	51.8	50.4
97.5°	69.2	69.6	69.9	70.2	69.9	69.6	69.2	68.9	68.2	67.1	66.0
100°	80.3	80.9	81.4	82.0	81.4	80.9	80.3	79.8	78.4	76.2	74.1
102.5°	85.5	86.3	87.1	87.8	87.1	86.3	85.5	84.8	83.0	80.2	77.3
105°	89.7	90.8	91.9	93.0	91.9	90.8	89.7	88.6	86.6	83.6	80.6
107.5°	92.4	93.5	94.6	95.7	94.6	93.5	92.4	91.3	92.3	95.3	98.4
110°	93.4	94.5	95.6	96.6	95.6	94.5	93.4	92.3	105.3	132.5	159.7



TEST NUMBER: P331483

CATALOG NUMBER: S122DIW-S290D1240U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	95.0	95.9	96.7	97.6	96.7	95.9	95.0	94.1	143.3	242.5	341.6
115°	159.0	139.5	119.9	100.3	119.9	139.5	159.0	178.6	251.3	377.2	503.0
117.5°	602.5	538.2	473.9	409.5	473.9	538.2	602.5	666.8	714.2	744.6	775.1
120°	856.3	819.6	782.9	746.2	782.9	819.6	856.3	893.0	909.7	906.4	903.2
122.5°	952.5	945.4	938.3	931.1	938.3	945.4	952.5	959.6	962.2	960.3	958.3
125°	1043.4	1044.3	1045.1	1045.9	1045.1	1044.3	1043.4	1042.6	1041.3	1039.4	1037.5
127.5°	1117.8	1118.0	1118.1	1118.3	1118.1	1118.0	1117.8	1117.7	1116.2	1113.4	1110.6
130°	1164.1	1163.9	1163.6	1163.3	1163.6	1163.9	1164.1	1164.4	1163.0	1160.1	1157.1
132.5°	1208.2	1207.9	1207.6	1207.4	1207.6	1207.9	1208.2	1208.4	1207.3	1204.7	1202.2
135°	1272.6	1272.1	1271.5	1271.0	1271.5	1272.1	1272.6	1273.1	1272.1	1269.3	1266.6
137.5°	1331.7	1330.8	1329.9	1328.9	1329.9	1330.8	1331.7	1332.6	1331.8	1329.1	1326.4
140°	1369.2	1367.9	1366.5	1365.2	1366.5	1367.9	1369.2	1370.6	1370.1	1367.6	1365.2
142.5°	1404.5	1403.1	1401.7	1400.4	1401.7	1403.1	1404.5	1405.8	1405.4	1403.2	1400.9
145°	1453.6	1452.3	1450.9	1449.6	1450.9	1452.3	1453.6	1455.0	1454.7	1452.8	1450.9
147.5°	1496.3	1495.1	1494.0	1492.9	1494.0	1495.1	1496.3	1497.4	1497.3	1495.9	1494.5
150°	1523.4	1522.0	1520.6	1519.3	1520.6	1522.0	1523.4	1524.7	1524.6	1523.0	1521.3
152.5°	1547.2	1545.4	1543.6	1541.8	1543.6	1545.4	1547.2	1549.0	1549.1	1547.4	1545.8
155°	1579.6	1577.5	1575.3	1573.1	1575.3	1577.5	1579.6	1581.8	1582.1	1580.5	1578.8
157.5°	1608.1	1606.0	1603.9	1601.7	1603.9	1606.0	1608.1	1610.2	1610.4	1608.5	1606.7
160°	1624.1	1622.2	1620.3	1618.4	1620.3	1622.2	1624.1	1626.0	1626.1	1624.5	1622.9
162.5°	1639.1	1636.7	1634.4	1632.1	1634.4	1636.7	1639.1	1641.4	1641.7	1639.8	1638.0
165°	1658.3	1656.4	1654.5	1652.6	1654.5	1656.4	1658.3	1660.2	1660.2	1658.3	1656.4
167.5°	1672.9	1670.5	1668.0	1665.6	1668.0	1670.5	1672.9	1675.4	1675.6	1673.7	1671.8
170°	1680.8	1678.3	1675.9	1673.4	1675.9	1678.3	1680.8	1683.2	1683.5	1681.6	1679.7
172.5°	1686.6	1684.2	1681.7	1679.3	1681.7	1684.2	1686.6	1689.1	1689.3	1687.4	1685.5
175°	1692.6	1689.9	1687.1	1684.4	1687.1	1689.9	1692.6	1695.3	1695.7	1693.8	1691.9
177.5°	1693.5	1691.5	1689.6	1687.6	1689.6	1691.5	1693.5	1695.4	1695.7	1694.1	1692.6
180°	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5



TEST NUMBER: P331483

CATALOG NUMBER: S122DIW-S290D1240U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	568.0	570.0	573.1	576.4	578.4	582.2	583.3	585.1	586.7	590.5	594.5
5°	535.2	538.4	545.9	550.0	555.6	562.2	566.5	571.1	576.1	584.7	592.7
7.5°	500.0	505.3	514.7	522.3	530.4	539.8	546.6	555.6	563.1	575.3	586.9
10°	476.6	484.1	492.5	501.6	512.9	522.9	532.5	543.8	552.9	567.5	581.1
12.5°	455.5	456.6	468.7	478.7	494.2	506.6	517.6	532.2	541.1	558.4	572.7
15°	418.7	425.5	436.4	444.3	462.7	478.4	493.9	509.1	519.3	540.7	559.5
17.5°	387.6	393.9	405.1	418.1	431.3	446.9	466.9	483.0	496.9	521.3	543.6
20°	368.0	375.7	387.1	400.5	412.1	429.1	446.4	464.8	479.8	507.3	533.4
22.5°	351.3	357.4	366.6	379.8	392.4	408.0	426.9	447.0	462.7	492.4	518.8
25°	327.8	332.8	338.7	349.6	363.9	381.0	395.7	417.8	440.7	468.4	500.4
27.5°	306.6	310.2	315.4	325.0	336.1	352.0	368.4	389.3	412.4	442.5	476.3
30°	293.7	296.0	301.2	309.2	320.1	332.6	349.2	369.1	392.8	423.2	456.8
32.5°	282.5	284.5	288.0	295.5	305.0	315.7	330.6	350.6	373.1	403.0	440.3
35°	265.6	267.1	270.1	276.2	281.5	291.9	304.4	322.6	343.7	372.3	410.9
37.5°	248.7	250.9	252.7	255.3	262.0	268.9	279.7	295.1	315.8	344.7	381.5
40°	237.6	239.4	242.2	243.3	248.7	254.9	263.7	277.8	298.7	325.1	361.0
42.5°	226.3	228.2	229.8	231.1	235.8	241.2	249.2	261.3	279.8	305.4	341.0
45°	211.0	211.3	212.9	215.4	217.6	221.5	227.2	237.6	251.9	276.0	308.3
47.5°	195.5	195.8	196.0	197.1	199.6	203.1	206.9	215.4	228.2	247.4	278.8
50°	185.1	184.7	185.1	186.0	187.6	190.6	194.9	201.0	211.5	229.4	258.3
52.5°	175.1	175.1	174.8	175.1	176.4	178.4	181.5	186.7	196.0	212.5	237.9
55°	159.9	158.8	159.0	158.1	160.2	160.6	162.9	167.2	175.4	186.7	210.6
57.5°	143.7	142.8	141.8	141.5	141.3	142.5	144.3	147.7	154.0	164.0	183.3
60°	133.3	132.2	130.8	130.4	130.4	131.1	132.0	134.5	140.4	149.2	165.1
62.5°	122.8	121.5	120.7	119.5	119.1	119.8	120.7	122.5	126.8	135.1	148.8
65°	106.5	104.9	103.8	103.6	103.1	102.5	102.9	104.7	108.1	114.7	125.6
67.5°	90.2	88.7	88.5	87.1	86.5	86.6	86.5	88.0	90.1	95.8	103.9
70°	79.5	78.4	77.9	76.8	76.3	75.9	75.4	76.8	78.8	83.6	90.6
72.5°	68.6	67.6	66.7	65.7	65.8	65.3	65.2	66.1	67.7	72.1	77.6
75°	52.9	53.2	52.0	50.9	50.7	50.2	50.2	50.9	51.6	55.0	59.3
77.5°	38.4	38.2	37.3	36.9	36.7	36.2	36.7	37.1	37.5	39.8	42.9
80°	29.3	29.3	28.2	28.2	27.9	27.3	27.9	27.5	28.4	30.7	32.9
82.5°	20.9	20.6	20.5	20.2	20.1	19.6	19.9	20.4	20.8	22.3	23.7
85°	10.2	10.2	10.0	9.8	10.0	9.8	10.0	10.2	10.4	11.1	12.3
87.5°	7.3	7.3	7.0	6.7	6.3	6.1	5.7	5.3	5.1	4.7	4.2
90°	25.8	24.5	22.3	20.1	17.9	15.8	13.2	10.2	7.2	4.2	1.2
92.5°	29.1	28.4	27.3	26.2	25.1	24.0	23.6	23.9	24.2	24.4	24.7
95°	49.1	47.7	45.8	43.9	42.0	40.1	43.6	52.6	61.6	70.5	79.5
97.5°	64.9	63.9	59.5	55.0	50.6	46.2	56.7	82.0	107.2	132.5	157.8
100°	71.9	69.7	65.1	60.5	55.9	51.2	67.6	104.8	142.0	179.3	216.5
102.5°	74.5	71.7	110.3	149.0	187.6	226.3	249.6	257.5	265.3	273.2	281.1
105°	77.6	74.6	148.8	223.0	297.3	371.5	404.5	396.3	388.2	380.0	371.9
107.5°	101.4	104.5	193.5	282.5	371.5	460.5	501.7	495.1	488.5	481.9	475.4
110°	186.9	214.1	292.6	371.2	449.8	528.3	564.7	559.0	553.3	547.6	541.9



TEST NUMBER: P331483

CATALOG NUMBER: S122DIW-S290D1240U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	440.8	539.9	559.4	578.8	598.2	617.6	624.8	619.7	614.6	609.6	604.5
115°	628.9	754.8	748.0	741.2	734.4	727.6	721.9	717.2	712.6	708.0	703.4
117.5°	805.5	836.0	831.3	826.6	821.9	817.3	812.4	807.2	802.0	796.9	791.7
120°	899.9	896.6	891.8	886.9	882.0	877.1	872.6	868.5	864.4	860.4	856.3
122.5°	956.3	954.4	949.1	943.7	938.4	933.1	928.3	924.0	919.7	915.4	911.1
125°	1035.6	1033.7	1028.5	1023.3	1018.2	1013.0	1008.6	1005.1	1001.6	998.0	994.5
127.5°	1107.9	1105.1	1101.2	1097.4	1093.5	1089.7	1085.8	1081.9	1077.9	1074.0	1070.1
130°	1154.1	1151.1	1148.1	1145.1	1142.1	1139.1	1135.5	1131.1	1126.8	1122.4	1118.1
132.5°	1199.6	1197.1	1194.1	1191.1	1188.1	1185.1	1181.8	1178.1	1174.4	1170.7	1167.0
135°	1263.9	1261.2	1258.7	1256.3	1253.8	1251.4	1248.0	1243.6	1239.3	1234.9	1230.6
137.5°	1323.8	1321.1	1318.3	1315.6	1312.8	1310.0	1307.1	1304.1	1301.0	1298.0	1294.9
140°	1362.7	1360.3	1357.3	1354.3	1351.3	1348.3	1345.7	1343.5	1341.4	1339.2	1337.0
142.5°	1398.7	1396.5	1393.0	1389.6	1386.2	1382.8	1380.1	1378.1	1376.2	1374.2	1372.3
145°	1449.0	1447.1	1442.5	1437.9	1433.3	1428.6	1426.5	1426.7	1427.0	1427.3	1427.5
147.5°	1493.1	1491.6	1487.1	1482.5	1477.9	1473.4	1471.6	1472.6	1473.7	1474.7	1475.7
150°	1519.7	1518.1	1513.7	1509.4	1505.0	1500.7	1499.4	1501.3	1503.3	1505.2	1507.1
152.5°	1544.2	1542.5	1538.4	1534.3	1530.1	1526.0	1525.0	1527.1	1529.2	1531.4	1533.5
155°	1577.2	1575.6	1572.3	1569.0	1565.8	1562.5	1562.1	1564.5	1567.0	1569.4	1571.9
157.5°	1604.8	1603.0	1600.7	1598.4	1596.1	1593.8	1593.7	1595.8	1597.8	1599.9	1602.0
160°	1621.2	1619.6	1618.0	1616.3	1614.7	1613.1	1613.1	1614.7	1616.3	1618.0	1619.6
162.5°	1636.1	1634.3	1632.9	1631.4	1630.0	1628.6	1628.7	1630.4	1632.0	1633.6	1635.3
165°	1654.5	1652.6	1651.8	1651.0	1650.2	1649.4	1649.8	1651.4	1653.0	1654.7	1656.3
167.5°	1669.9	1668.0	1667.3	1666.5	1665.8	1665.0	1665.4	1667.1	1668.7	1670.3	1672.0
170°	1677.8	1675.9	1675.3	1674.8	1674.2	1673.7	1674.2	1675.9	1677.5	1679.1	1680.8
172.5°	1683.6	1681.7	1681.2	1680.6	1680.1	1679.6	1680.1	1681.7	1683.4	1685.0	1686.6
175°	1690.0	1688.1	1687.6	1687.0	1686.5	1685.9	1686.6	1688.5	1690.4	1692.3	1694.2
177.5°	1691.1	1689.6	1689.3	1689.1	1688.9	1688.7	1689.3	1690.9	1692.4	1693.9	1695.4
180°	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5



TEST NUMBER: P331483

CATALOG NUMBER: S122DIW-S290D1240U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	594.2	595.1	598.0	600.9	604.2	605.1	606.5	605.3	604.9	608.3	610.9
5°	595.9	599.9	607.9	615.2	621.3	625.6	630.2	632.0	635.4	640.1	646.1
7.5°	593.9	601.9	614.4	625.0	636.5	644.8	651.3	656.9	663.6	672.6	682.5
10°	591.8	602.4	617.7	630.6	644.7	655.4	664.2	672.9	682.9	695.4	708.3
12.5°	587.8	600.4	619.5	634.8	652.9	663.4	675.3	693.9	704.7	722.1	740.3
15°	579.7	593.8	620.4	639.2	659.7	679.7	701.7	719.4	737.1	747.4	773.0
17.5°	567.8	588.4	617.9	639.9	665.9	697.3	722.1	742.2	762.6	779.2	792.1
20°	558.1	580.6	614.3	640.6	671.5	705.3	733.7	754.2	771.9	785.8	793.7
22.5°	546.0	574.3	607.0	637.9	677.3	710.8	740.6	756.7	771.5	778.3	781.4
25°	526.8	560.9	597.9	635.6	680.1	715.6	742.8	752.6	756.9	750.3	739.4
27.5°	506.1	544.1	587.4	631.3	678.4	712.5	732.0	730.5	723.2	701.8	684.8
30°	490.7	532.5	579.0	627.0	674.2	707.4	718.7	707.4	690.8	667.0	642.6
32.5°	474.5	517.8	570.1	620.8	666.6	695.8	698.2	678.7	653.0	625.9	595.6
35°	450.0	496.8	553.4	607.0	650.4	668.8	657.9	623.3	592.9	555.9	514.5
37.5°	422.3	474.0	530.7	586.8	626.1	630.9	603.8	567.5	524.5	481.0	432.3
40°	401.6	456.4	514.8	571.3	606.1	601.1	566.5	526.6	475.5	422.3	377.1
42.5°	383.1	437.8	497.3	552.8	580.6	566.9	526.6	477.5	422.6	372.5	331.1
45°	351.0	407.3	468.2	521.8	537.7	512.9	459.6	405.0	351.0	309.2	276.5
47.5°	319.8	375.5	435.8	482.9	488.5	455.2	396.9	340.8	294.3	260.3	237.2
50°	296.9	352.8	412.5	454.6	452.7	412.5	352.6	299.2	260.3	232.8	217.4
52.5°	276.4	329.2	386.5	424.8	415.1	371.3	314.0	266.6	234.7	213.2	199.2
55°	244.4	293.3	347.8	378.5	360.7	312.1	263.7	225.6	201.9	185.8	174.9
57.5°	212.7	258.5	305.2	324.1	304.5	259.6	219.3	191.6	173.8	161.9	154.8
60°	193.1	233.1	274.6	291.0	267.6	227.6	195.8	171.1	156.7	147.0	140.6
62.5°	173.5	209.3	248.5	257.4	236.0	202.2	174.0	153.4	141.7	133.0	127.0
65°	146.7	176.1	205.8	211.7	192.0	165.8	143.6	130.2	119.7	113.4	108.6
67.5°	120.4	143.9	165.0	169.7	152.4	134.3	118.2	106.5	99.5	94.2	90.1
70°	104.7	123.4	140.6	144.5	130.6	114.5	102.2	92.9	86.5	82.0	78.1
72.5°	88.2	103.7	118.1	120.7	109.4	97.0	87.0	79.6	74.0	71.1	67.4
75°	67.5	76.6	87.7	88.4	80.9	73.4	65.7	60.9	57.9	54.3	52.5
77.5°	47.6	54.7	61.1	62.3	57.9	52.8	48.5	44.7	42.2	40.5	38.8
80°	36.3	42.0	44.8	46.3	43.2	39.5	37.0	34.5	32.9	31.8	30.7
82.5°	26.0	29.5	32.0	33.3	31.5	29.3	26.9	25.4	24.2	23.3	22.9
85°	13.2	14.8	16.4	16.8	16.4	15.4	14.1	14.1	13.4	13.2	13.2
87.5°	5.4	6.7	7.3	8.5	8.6	9.0	9.5	9.7	10.0	10.1	10.2
90°	4.2	7.2	10.2	13.2	15.8	17.9	20.1	22.3	24.5	25.8	27.2
92.5°	24.4	24.2	23.9	23.6	24.0	25.1	26.2	27.3	28.4	29.1	29.8
95°	70.5	61.6	52.6	43.6	40.1	42.0	43.9	45.8	47.7	49.1	50.4
97.5°	132.5	107.2	82.0	56.7	46.2	50.6	55.0	59.5	63.9	64.9	66.0
100°	179.3	142.0	104.8	67.6	51.2	55.9	60.5	65.1	69.7	71.9	74.1
102.5°	273.2	265.3	257.5	249.6	226.3	187.6	149.0	110.3	71.7	74.5	77.3
105°	380.0	388.2	396.3	404.5	371.5	297.3	223.0	148.8	74.6	77.6	80.6
107.5°	481.9	488.5	495.1	501.7	460.5	371.5	282.5	193.5	104.5	101.4	98.4
110°	547.6	553.3	559.0	564.7	528.3	449.8	371.2	292.6	214.1	186.9	159.7



TEST NUMBER: P331483

CATALOG NUMBER: S122DIW-S290D1240U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	609.6	614.6	619.7	624.8	617.6	598.2	578.8	559.4	539.9	440.8	341.6
115°	708.0	712.6	717.2	721.9	727.6	734.4	741.2	748.0	754.8	628.9	503.0
117.5°	796.9	802.0	807.2	812.4	817.3	821.9	826.6	831.3	836.0	805.5	775.1
120°	860.4	864.4	868.5	872.6	877.1	882.0	886.9	891.8	896.6	899.9	903.2
122.5°	915.4	919.7	924.0	928.3	933.1	938.4	943.7	949.1	954.4	956.3	958.3
125°	998.0	1001.6	1005.1	1008.6	1013.0	1018.2	1023.3	1028.5	1033.7	1035.6	1037.5
127.5°	1074.0	1077.9	1081.9	1085.8	1089.7	1093.5	1097.4	1101.2	1105.1	1107.9	1110.6
130°	1122.4	1126.8	1131.1	1135.5	1139.1	1142.1	1145.1	1148.1	1151.1	1154.1	1157.1
132.5°	1170.7	1174.4	1178.1	1181.8	1185.1	1188.1	1191.1	1194.1	1197.1	1199.6	1202.2
135°	1234.9	1239.3	1243.6	1248.0	1251.4	1253.8	1256.3	1258.7	1261.2	1263.9	1266.6
137.5°	1298.0	1301.0	1304.1	1307.1	1310.0	1312.8	1315.6	1318.3	1321.1	1323.8	1326.4
140°	1339.2	1341.4	1343.5	1345.7	1348.3	1351.3	1354.3	1357.3	1360.3	1362.7	1365.2
142.5°	1374.2	1376.2	1378.1	1380.1	1382.8	1386.2	1389.6	1393.0	1396.5	1398.7	1400.9
145°	1427.3	1427.0	1426.7	1426.5	1428.6	1433.3	1437.9	1442.5	1447.1	1449.0	1450.9
147.5°	1474.7	1473.7	1472.6	1471.6	1473.4	1477.9	1482.5	1487.1	1491.6	1493.1	1494.5
150°	1505.2	1503.3	1501.3	1499.4	1500.7	1505.0	1509.4	1513.7	1518.1	1519.7	1521.3
152.5°	1531.4	1529.2	1527.1	1525.0	1526.0	1530.1	1534.3	1538.4	1542.5	1544.2	1545.8
155°	1569.4	1567.0	1564.5	1562.1	1562.5	1565.8	1569.0	1572.3	1575.6	1577.2	1578.8
157.5°	1599.9	1597.8	1595.8	1593.7	1593.8	1596.1	1598.4	1600.7	1603.0	1604.8	1606.7
160°	1618.0	1616.3	1614.7	1613.1	1613.1	1614.7	1616.3	1618.0	1619.6	1621.2	1622.9
162.5°	1633.6	1632.0	1630.4	1628.7	1628.6	1630.0	1631.4	1632.9	1634.3	1636.1	1638.0
165°	1654.7	1653.0	1651.4	1649.8	1649.4	1650.2	1651.0	1651.8	1652.6	1654.5	1656.4
167.5°	1670.3	1668.7	1667.1	1665.4	1665.0	1665.8	1666.5	1667.3	1668.0	1669.9	1671.8
170°	1679.1	1677.5	1675.9	1674.2	1673.7	1674.2	1674.8	1675.3	1675.9	1677.8	1679.7
172.5°	1685.0	1683.4	1681.7	1680.1	1679.6	1680.1	1680.6	1681.2	1681.7	1683.6	1685.5
175°	1692.3	1690.4	1688.5	1686.6	1685.9	1686.5	1687.0	1687.6	1688.1	1690.0	1691.9
177.5°	1693.9	1692.4	1690.9	1689.3	1688.7	1688.9	1689.1	1689.3	1689.6	1691.1	1692.6
180°	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5



TEST NUMBER: P331483

CATALOG NUMBER: S122DIW-S290D1240U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	613.1	615.6	615.6	616.0	618.9	618.5	618.3
5°	652.4	656.3	656.7	660.8	663.5	662.6	660.1
7.5°	689.5	696.7	702.2	705.2	708.8	711.0	710.0
10°	719.0	729.4	735.8	740.1	745.3	749.2	747.8
12.5°	745.7	758.1	766.9	774.3	774.9	779.9	776.5
15°	787.4	800.5	801.9	807.3	811.7	811.2	811.4
17.5°	801.1	805.3	806.2	806.3	806.4	804.8	801.3
20°	796.2	794.6	790.8	787.8	782.6	781.9	777.4
22.5°	772.9	767.9	758.2	751.8	743.7	741.6	740.3
25°	727.2	716.0	700.6	685.8	681.7	673.8	676.0
27.5°	664.3	647.0	630.2	618.3	607.4	595.5	598.9
30°	620.2	600.6	577.0	558.8	547.2	535.9	533.8
32.5°	567.5	538.8	512.5	496.5	478.7	471.5	463.7
35°	476.6	448.6	422.5	400.0	387.1	377.1	368.0
37.5°	394.9	362.7	341.6	323.4	314.0	308.3	309.8
40°	344.2	316.0	300.5	286.7	278.0	274.0	274.9
42.5°	303.1	282.0	269.3	259.8	253.7	251.4	250.9
45°	256.5	244.7	234.2	228.8	225.8	223.3	221.7
47.5°	224.7	215.0	209.1	205.9	203.3	200.8	200.7
50°	205.6	199.2	195.1	191.7	189.7	187.9	189.5
52.5°	191.0	185.2	181.1	178.1	177.3	175.7	175.6
55°	169.5	164.9	162.0	159.2	157.9	157.0	155.8
57.5°	149.8	145.5	142.8	141.1	138.5	137.6	137.2
60°	135.8	132.4	129.7	127.4	126.3	124.5	124.5
62.5°	122.9	119.5	117.0	115.3	113.4	112.7	112.9
65°	104.3	101.5	99.0	97.2	96.8	95.4	95.9
67.5°	87.1	85.3	82.6	81.6	80.8	80.1	79.5
70°	75.6	73.8	72.5	71.1	70.4	70.4	70.4
72.5°	66.0	63.8	63.0	61.3	61.7	61.0	60.2
75°	51.1	49.7	49.1	48.4	47.3	47.3	47.3
77.5°	37.6	37.2	36.4	35.7	35.4	35.2	35.3
80°	29.1	28.8	28.4	28.4	27.9	27.7	27.3
82.5°	22.4	21.8	21.5	21.3	21.2	21.2	21.1
85°	12.7	12.3	12.3	12.5	12.0	12.0	12.3
87.5°	10.6	10.9	10.9	11.0	11.3	11.2	11.3
90°	28.5	29.9	30.9	31.4	31.9	32.5	33.0
92.5°	30.5	31.2	31.7	32.0	32.4	32.7	33.0
95°	51.8	53.1	53.7	53.4	53.1	52.9	52.6
97.5°	67.1	68.2	68.9	69.2	69.6	69.9	70.2
100°	76.2	78.4	79.8	80.3	80.9	81.4	82.0
102.5°	80.2	83.0	84.8	85.5	86.3	87.1	87.8
105°	83.6	86.6	88.6	89.7	90.8	91.9	93.0
107.5°	95.3	92.3	91.3	92.4	93.5	94.6	95.7
110°	132.5	105.3	92.3	93.4	94.5	95.6	96.6



TEST NUMBER: P331483

CATALOG NUMBER: S122DIW-S290D1240U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	242.5	143.3	94.1	95.0	95.9	96.7	97.6
115°	377.2	251.3	178.6	159.0	139.5	119.9	100.3
117.5°	744.6	714.2	666.8	602.5	538.2	473.9	409.5
120°	906.4	909.7	893.0	856.3	819.6	782.9	746.2
122.5°	960.3	962.2	959.6	952.5	945.4	938.3	931.1
125°	1039.4	1041.3	1042.6	1043.4	1044.3	1045.1	1045.9
127.5°	1113.4	1116.2	1117.7	1117.8	1118.0	1118.1	1118.3
130°	1160.1	1163.0	1164.4	1164.1	1163.9	1163.6	1163.3
132.5°	1204.7	1207.3	1208.4	1208.2	1207.9	1207.6	1207.4
135°	1269.3	1272.1	1273.1	1272.6	1272.1	1271.5	1271.0
137.5°	1329.1	1331.8	1332.6	1331.7	1330.8	1329.9	1328.9
140°	1367.6	1370.1	1370.6	1369.2	1367.9	1366.5	1365.2
142.5°	1403.2	1405.4	1405.8	1404.5	1403.1	1401.7	1400.4
145°	1452.8	1454.7	1455.0	1453.6	1452.3	1450.9	1449.6
147.5°	1495.9	1497.3	1497.4	1496.3	1495.1	1494.0	1492.9
150°	1523.0	1524.6	1524.7	1523.4	1522.0	1520.6	1519.3
152.5°	1547.4	1549.1	1549.0	1547.2	1545.4	1543.6	1541.8
155°	1580.5	1582.1	1581.8	1579.6	1577.5	1575.3	1573.1
157.5°	1608.5	1610.4	1610.2	1608.1	1606.0	1603.9	1601.7
160°	1624.5	1626.1	1626.0	1624.1	1622.2	1620.3	1618.4
162.5°	1639.8	1641.7	1641.4	1639.1	1636.7	1634.4	1632.1
165°	1658.3	1660.2	1660.2	1658.3	1656.4	1654.5	1652.6
167.5°	1673.7	1675.6	1675.4	1672.9	1670.5	1668.0	1665.6
170°	1681.6	1683.5	1683.2	1680.8	1678.3	1675.9	1673.4
172.5°	1687.4	1689.3	1689.1	1686.6	1684.2	1681.7	1679.3
175°	1693.8	1695.7	1695.3	1692.6	1689.9	1687.1	1684.4
177.5°	1694.1	1695.7	1695.4	1693.5	1691.5	1689.6	1687.6
180°	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5

(END OF REPORT)