

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: P331777-840

Luminaire Tested: **S122RDIW-S290D1240U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331777-840
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: S122RDIW-S290D1240U840-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1240 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6148.2 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

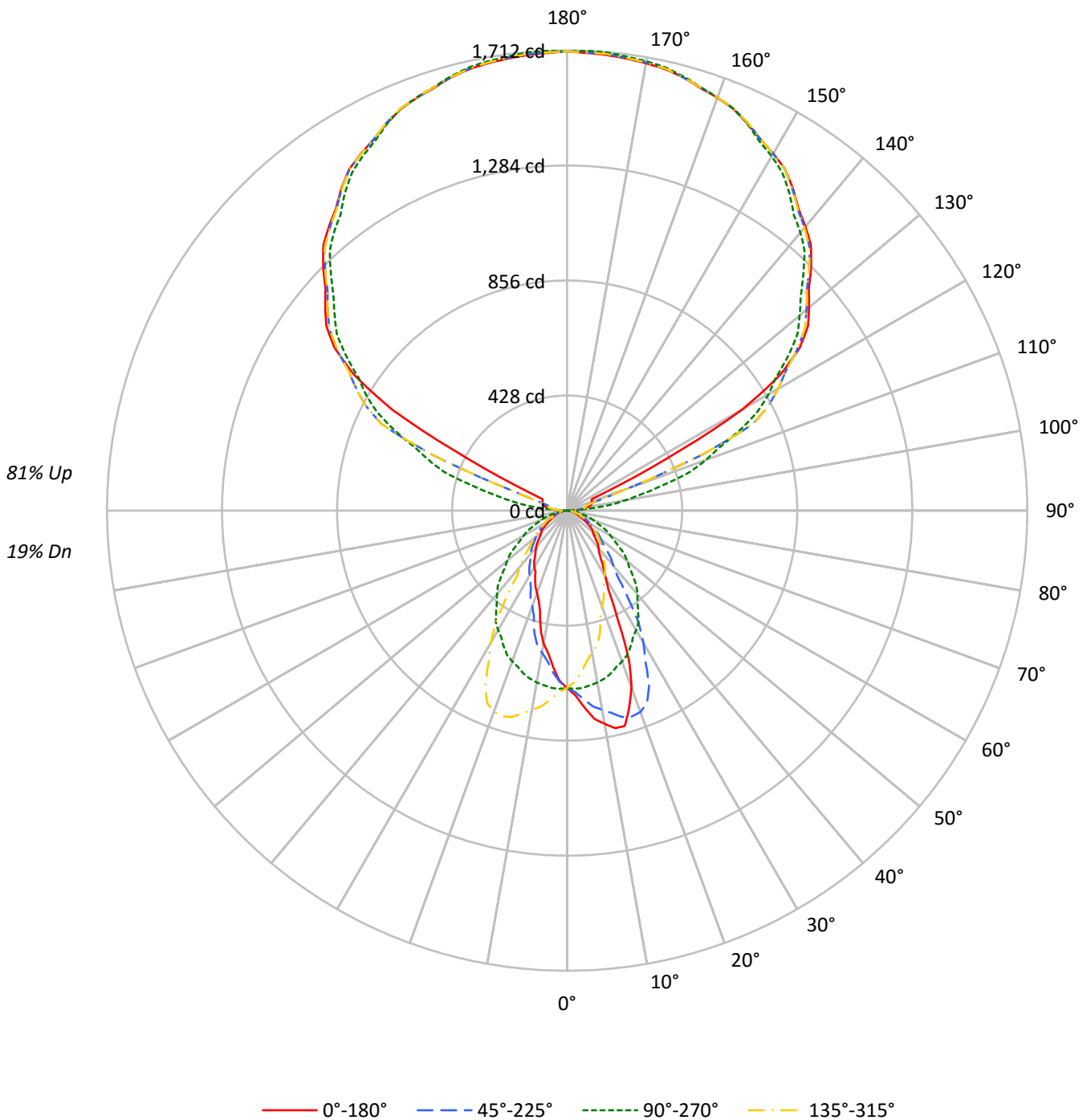
Input Watts (W): 46.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	88	88	88	88	66	66	66	46	46	46	27	27	27	19
1	91	87	83	80	80	77	74	71	58	56	54	41	39	38	24	24	23	16
2	83	76	71	66	73	68	63	59	51	48	45	36	34	33	22	21	20	14
3	76	67	60	55	67	60	54	49	45	42	38	32	30	28	20	19	18	12
4	69	60	52	47	61	53	47	42	40	36	33	29	26	24	18	16	15	11
5	64	53	46	40	56	47	41	36	36	32	28	26	23	21	16	15	14	10
6	59	47	40	35	52	42	36	31	32	28	25	23	21	18	15	13	12	9
7	54	43	35	30	48	38	32	27	29	25	22	21	18	16	14	12	11	8
8	50	39	32	27	44	35	28	24	27	22	19	19	17	15	12	11	10	7
9	47	35	28	24	41	32	26	21	25	20	17	18	15	13	12	10	9	7
10	43	32	26	21	38	29	23	19	23	18	15	16	14	12	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10658	10658	10658	10658
5°	11904	10726	9511	10726
10°	13209	10650	8243	10650
15°	13857	10494	6496	10494
20°	12014	10263	5620	10263
25°	7878	9948	5018	9948
30°	5304	9562	4542	9562
35°	4295	9079	4096	9079
40°	3819	8553	3792	8553
45°	3457	7935	3382	7935
50°	3145	7322	3135	7322
55°	2956	6643	2919	6643
60°	2474	6022	2444	6022
65°	2086	5467	2365	5467
70°	1926	4881	2233	4881
75°	1803	4255	2059	4255
80°	1664	3505	1832	3505
85°	1538	2760	1612	2760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.6	1.0
10°-20°	174.4	2.8
20°-30°	224.7	3.7
30°-40°	213.5	3.5
40°-50°	182.9	3.0
50°-60°	139.3	2.3
60°-70°	88.1	1.4
70°-80°	44.0	0.7
80°-90°	15.7	0.3
90°-100°	56.9	0.9
100°-110°	208.8	3.4
110°-120°	558.2	9.1
120°-130°	921.5	15.0
130°-140°	980.0	15.9
140°-150°	910.9	14.8
150°-160°	732.3	11.9
160°-170°	471.9	7.7
170°-180°	162.4	2.6
0°-30°	461.7	7.5
0°-40°	675.2	11.0
0°-60°	997.5	16.2
0°-90°	1145.2	18.6
90°-120°	824.0	13.4
90°-150°	3636.4	59.1
90°-180°	5003.0	81.4
0°-180°	6148.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	660	660	660	660	660	
5°	734	662	587	662	734	72
15°	829	628	389	628	829	224
25°	442	558	282	558	442	210
35°	218	461	208	461	218	139
45°	151	348	148	348	151	117
55°	105	236	104	236	105	92
65°	55	143	62	143	55	56
75°	29	68	33	68	29	31
85°	8	15	9	15	8	10
90°	33	1	33	1	33	15
95°	53	80	53	80	53	50
105°	94	376	94	376	94	98
115°	101	710	101	710	101	254
125°	1056	1004	1056	1004	1056	914
135°	1284	1243	1284	1243	1284	989
145°	1464	1442	1464	1442	1464	915
155°	1589	1587	1589	1587	1589	733
165°	1669	1673	1669	1673	1669	471
175°	1701	1711	1701	1711	1701	162
180°	1707	1707	1707	1707	1707	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	687.0	687.5	688.1	686.8	686.8	685.7	683.3	681.5	676.3	675.6	675.6
5°	734.5	734.1	735.0	732.0	727.9	726.9	722.6	716.8	710.8	704.3	702.9
7.5°	781.7	781.0	779.2	778.7	775.6	768.6	761.6	754.2	744.3	734.6	729.7
10°	805.7	813.2	808.6	800.6	802.1	791.4	785.7	775.8	767.5	753.1	749.9
12.5°	829.1	832.1	830.6	826.1	824.0	816.6	808.8	800.2	785.0	772.0	760.7
15°	829.0	833.3	834.6	833.1	834.2	833.8	829.7	822.6	809.3	795.1	782.6
17.5°	767.8	770.8	778.4	783.5	789.9	803.4	810.2	812.7	810.8	802.6	794.0
20°	699.2	694.2	715.3	726.0	735.2	758.1	777.9	785.5	797.6	797.4	795.1
22.5°	601.9	603.1	623.1	635.9	662.7	685.7	708.1	736.6	760.1	775.7	784.8
25°	442.2	451.0	470.9	488.4	518.2	560.9	599.7	644.6	687.0	720.5	752.5
27.5°	332.1	332.9	348.6	364.8	382.4	417.4	466.3	519.9	580.4	630.4	687.7
30°	284.5	283.1	289.7	299.6	314.8	341.8	378.5	431.2	491.6	566.8	633.8
32.5°	250.6	250.7	255.8	263.1	275.6	293.9	319.0	361.9	418.9	492.9	571.4
35°	217.9	217.7	221.4	226.6	231.9	243.6	260.8	283.3	322.6	391.5	471.8
37.5°	194.4	195.4	197.2	200.6	206.3	212.9	223.2	238.3	266.2	307.1	374.6
40°	181.2	181.7	184.2	186.9	190.4	195.4	203.9	216.1	236.5	269.0	318.4
42.5°	169.2	169.6	171.4	173.9	176.6	181.7	188.7	199.2	215.8	241.2	281.9
45°	151.4	151.4	153.0	154.1	157.1	161.7	167.4	176.2	187.6	206.4	233.5
47.5°	134.8	134.8	135.9	137.8	139.8	143.3	149.0	156.1	164.4	178.9	202.1
50°	125.2	125.5	126.1	127.7	129.0	132.1	136.5	142.7	151.4	162.7	181.9
52.5°	117.5	117.4	118.3	119.0	119.8	122.0	125.3	130.8	138.6	148.3	164.3
55°	105.0	104.1	105.5	106.6	107.3	108.3	110.1	113.5	120.2	128.5	140.4
57.5°	89.5	89.1	90.1	91.1	93.3	95.7	97.4	99.5	102.9	108.9	120.7
60°	76.6	76.6	78.7	79.4	81.9	85.1	88.4	90.2	93.6	97.5	106.2
62.5°	65.2	65.4	66.3	67.1	68.5	72.4	77.0	81.0	84.2	88.0	93.7
65°	54.6	55.0	55.0	55.5	56.5	57.4	59.2	62.4	68.2	73.4	77.8
67.5°	46.4	46.5	46.7	47.1	47.3	48.3	49.1	50.5	51.8	56.8	62.2
70°	40.8	41.5	41.3	41.7	42.0	42.4	43.3	44.0	46.2	47.3	50.5
72.5°	35.6	36.2	36.2	36.5	37.1	37.2	37.9	38.6	39.9	40.8	42.6
75°	28.9	28.7	28.9	29.4	29.6	29.8	29.8	30.7	31.4	32.3	33.5
77.5°	22.3	22.5	22.5	22.5	22.6	23.0	22.9	23.3	24.0	24.5	25.0
80°	17.9	18.1	17.9	18.1	18.4	18.6	18.4	18.6	19.3	19.7	19.7
82.5°	13.8	13.9	14.0	14.0	14.1	14.1	14.5	14.5	15.0	14.9	15.1
85°	8.3	8.1	8.1	8.1	8.3	8.5	8.3	8.3	8.5	8.5	8.5
87.5°	9.6	9.7	9.6	9.5	9.4	9.2	8.9	8.8	8.4	8.3	7.6
90°	33.3	32.8	32.2	31.7	31.2	30.2	28.8	27.5	26.1	24.7	22.5
92.5°	33.3	33.0	32.7	32.3	32.0	31.5	30.8	30.1	29.4	28.7	27.6
95°	53.1	53.4	53.6	53.9	54.2	53.6	52.3	50.9	49.6	48.2	46.3
97.5°	70.9	70.6	70.3	69.9	69.6	68.9	67.8	66.7	65.5	64.5	60.1
100°	82.8	82.2	81.7	81.1	80.6	79.2	77.0	74.8	72.6	70.4	65.7
102.5°	88.7	88.0	87.2	86.3	85.6	83.8	81.0	78.1	75.2	72.4	111.4
105°	93.9	92.8	91.7	90.6	89.5	87.5	84.4	81.4	78.4	75.3	150.3
107.5°	96.6	95.5	94.4	93.3	92.2	93.2	96.2	99.4	102.4	105.5	195.4
110°	97.6	96.5	95.4	94.3	93.2	106.3	133.8	161.3	188.7	216.2	295.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	98.6	97.7	96.8	95.9	95.0	144.7	244.9	345.0	445.1	545.2	564.9
115°	101.3	121.1	140.9	160.6	180.4	253.8	380.9	508.0	635.1	762.2	755.4
117.5°	413.5	478.6	543.5	608.4	673.4	721.2	751.9	782.7	813.4	844.2	839.5
120°	753.6	790.6	827.7	864.7	901.8	918.7	915.3	912.1	908.8	905.4	900.6
122.5°	940.3	947.6	954.7	961.9	969.1	971.7	969.8	967.8	965.7	963.8	958.5
125°	1056.2	1055.4	1054.6	1053.7	1052.9	1051.6	1049.7	1047.7	1045.8	1043.9	1038.6
127.5°	1129.3	1129.1	1129.0	1128.8	1128.7	1127.2	1124.4	1121.6	1118.8	1116.0	1112.1
130°	1174.8	1175.1	1175.4	1175.6	1175.9	1174.5	1171.5	1168.5	1165.5	1162.5	1159.4
132.5°	1219.3	1219.5	1219.8	1220.1	1220.3	1219.2	1216.6	1214.1	1211.4	1208.9	1205.9
135°	1283.5	1284.0	1284.6	1285.2	1285.7	1284.6	1281.8	1279.1	1276.4	1273.6	1271.1
137.5°	1342.0	1343.0	1343.9	1344.8	1345.7	1344.9	1342.2	1339.5	1336.9	1334.1	1331.3
140°	1378.7	1380.0	1381.4	1382.7	1384.1	1383.6	1381.1	1378.7	1376.1	1373.7	1370.7
142.5°	1414.2	1415.5	1416.9	1418.4	1419.7	1419.3	1417.0	1414.7	1412.5	1410.3	1406.7
145°	1463.9	1465.2	1466.6	1467.9	1469.4	1469.1	1467.1	1465.2	1463.3	1461.4	1456.7
147.5°	1507.6	1508.7	1509.8	1511.1	1512.2	1512.1	1510.7	1509.2	1507.8	1506.3	1501.8
150°	1534.3	1535.6	1537.0	1538.4	1539.7	1539.6	1538.0	1536.3	1534.7	1533.1	1528.6
152.5°	1557.0	1558.8	1560.6	1562.5	1564.3	1564.4	1562.7	1561.0	1559.4	1557.7	1553.6
155°	1588.6	1590.8	1593.1	1595.2	1597.4	1597.7	1596.1	1594.4	1592.8	1591.1	1587.8
157.5°	1617.5	1619.7	1621.8	1624.0	1626.1	1626.3	1624.4	1622.6	1620.6	1618.8	1616.5
160°	1634.4	1636.3	1638.2	1640.1	1642.0	1642.1	1640.5	1638.9	1637.2	1635.6	1634.0
162.5°	1648.2	1650.5	1652.8	1655.3	1657.6	1657.9	1656.0	1654.2	1652.2	1650.4	1649.0
165°	1668.9	1670.8	1672.7	1674.7	1676.6	1676.6	1674.7	1672.7	1670.8	1668.9	1668.1
167.5°	1682.0	1684.5	1687.0	1689.4	1691.9	1692.1	1690.2	1688.3	1686.4	1684.5	1683.7
170°	1689.9	1692.4	1694.9	1697.4	1699.8	1700.1	1698.2	1696.3	1694.4	1692.4	1691.8
172.5°	1695.9	1698.3	1700.8	1703.2	1705.8	1706.0	1704.0	1702.1	1700.2	1698.3	1697.8
175°	1701.0	1703.7	1706.6	1709.3	1712.0	1712.4	1710.5	1708.6	1706.7	1704.8	1704.2
177.5°	1704.2	1706.3	1708.2	1710.2	1712.1	1712.4	1710.8	1709.3	1707.8	1706.3	1706.0
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	676.0	674.5	673.2	669.9	668.2	664.6	664.1	663.9	659.1	654.5	653.2
5°	699.2	695.5	690.0	683.6	676.9	670.0	665.5	661.8	652.6	643.9	638.8
7.5°	722.6	714.7	705.2	693.1	682.9	671.6	663.1	655.5	642.5	630.0	621.6
10°	740.0	727.2	714.6	697.8	684.7	671.9	659.9	649.6	635.0	618.4	606.7
12.5°	750.8	736.7	719.3	703.0	686.0	669.6	653.7	640.5	623.2	606.1	592.3
15°	765.5	750.3	729.2	705.8	684.1	662.7	644.4	627.8	605.4	584.9	567.9
17.5°	777.5	756.6	734.0	706.9	681.7	654.6	631.0	609.9	584.8	560.2	540.2
20°	781.3	760.6	734.5	707.4	677.6	645.7	620.3	597.3	570.5	543.6	520.7
22.5°	778.9	762.9	733.8	701.4	670.9	637.5	608.7	582.1	552.3	524.9	498.4
25°	762.8	757.2	729.7	694.4	659.5	620.8	587.4	558.4	524.4	495.0	466.2
27.5°	725.0	736.9	719.8	682.2	643.4	601.9	564.4	531.3	496.0	463.0	434.2
30°	688.6	715.9	708.6	673.7	630.4	589.6	547.5	512.9	475.3	441.3	412.9
32.5°	638.9	684.0	691.2	662.0	617.1	572.3	528.3	493.8	454.5	418.8	391.0
35°	559.7	627.1	658.1	639.5	594.6	546.1	500.8	460.6	421.1	385.9	358.3
37.5°	465.2	557.1	608.7	610.1	568.8	518.5	469.0	429.1	388.7	354.1	324.3
40°	403.9	503.5	570.8	585.6	550.8	496.4	446.4	405.8	366.4	332.3	298.2
42.5°	348.9	448.1	530.7	556.6	529.0	474.9	424.7	382.3	344.0	311.8	276.9
45°	282.2	368.9	459.9	506.2	490.9	440.9	387.9	347.5	311.5	283.8	250.2
47.5°	238.0	299.1	387.3	449.9	449.7	404.0	351.8	313.3	279.8	253.8	226.7
50°	212.9	266.1	340.6	411.7	417.7	379.4	329.8	291.5	260.3	233.1	211.3
52.5°	190.3	234.2	301.1	369.4	386.4	353.1	305.1	269.7	239.4	214.3	195.7
55°	160.8	194.8	245.7	309.4	335.2	311.7	269.0	236.0	211.5	190.4	174.3
57.5°	136.0	161.5	202.4	253.7	283.6	268.9	233.7	206.8	185.8	166.7	154.1
60°	120.5	141.3	175.9	218.8	251.9	241.6	211.5	186.5	168.6	152.1	140.2
62.5°	105.7	123.7	153.4	188.2	218.4	214.2	189.7	168.6	153.0	137.9	127.8
65°	85.1	98.2	121.4	148.7	173.0	175.0	157.3	143.1	129.2	117.2	108.3
67.5°	67.8	76.3	92.6	115.6	133.8	140.4	129.6	118.7	107.6	98.4	90.6
70°	57.2	64.0	75.9	94.5	111.3	118.2	111.9	103.4	93.8	86.2	79.6
72.5°	46.3	53.0	61.8	75.4	89.8	97.3	95.0	89.0	81.2	74.8	68.6
75°	34.8	37.0	42.9	52.1	63.3	69.8	71.3	68.2	61.9	57.2	53.4
77.5°	25.8	27.1	29.9	34.6	42.0	47.8	50.1	49.7	45.4	42.7	39.2
80°	20.6	21.3	22.7	24.7	30.3	36.1	37.7	37.7	34.6	33.5	30.1
82.5°	15.7	16.2	17.1	18.2	20.7	25.8	27.6	27.9	26.1	24.5	21.8
85°	9.0	8.7	9.2	9.9	10.3	11.7	14.4	14.9	14.4	12.6	11.9
87.5°	7.2	7.0	6.5	5.8	5.4	4.9	5.3	5.6	5.5	5.5	5.8
90°	20.3	18.1	16.0	13.3	10.3	7.3	4.2	1.2	4.2	7.3	10.3
92.5°	26.5	25.3	24.2	23.8	24.1	24.4	24.6	24.9	24.6	24.4	24.1
95°	44.3	42.4	40.5	44.0	53.1	62.2	71.2	80.3	71.2	62.2	53.1
97.5°	55.5	51.1	46.7	57.3	82.8	108.3	133.8	159.4	133.8	108.3	82.8
100°	61.1	56.5	51.7	68.3	105.8	143.4	181.1	218.6	181.1	143.4	105.8
102.5°	150.5	189.5	228.5	252.1	260.0	267.9	275.9	283.9	275.9	267.9	260.0
105°	225.2	300.2	375.2	408.5	400.2	392.0	383.7	375.6	383.7	392.0	400.2
107.5°	285.3	375.2	465.0	506.6	500.0	493.3	486.7	480.1	486.7	493.3	500.0
110°	374.9	454.2	533.5	570.3	564.5	558.8	553.0	547.2	553.0	558.8	564.5



TEST NUMBER: P331777-840

CATALOG NUMBER: S122RDIW-S290D1240U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	584.5	604.1	623.7	631.0	625.8	620.7	615.6	610.5	615.6	620.7	625.8
115°	748.5	741.6	734.8	729.0	724.3	719.6	715.0	710.3	715.0	719.6	724.3
117.5°	834.8	830.0	825.4	820.4	815.2	809.9	804.8	799.5	804.8	809.9	815.2
120°	895.6	890.7	885.8	881.2	877.1	872.9	868.9	864.7	868.9	872.9	877.1
122.5°	953.0	947.7	942.3	937.5	933.1	928.8	924.4	920.1	924.4	928.8	933.1
125°	1033.4	1028.2	1023.0	1018.5	1015.0	1011.5	1007.8	1004.3	1007.8	1011.5	1015.0
127.5°	1108.2	1104.3	1100.4	1096.5	1092.6	1088.5	1084.6	1080.7	1084.6	1088.5	1092.6
130°	1156.4	1153.4	1150.3	1146.7	1142.3	1137.9	1133.5	1129.1	1133.5	1137.9	1142.3
132.5°	1202.9	1199.8	1196.8	1193.5	1189.7	1186.0	1182.2	1178.5	1182.2	1186.0	1189.7
135°	1268.7	1266.2	1263.7	1260.3	1255.9	1251.5	1247.1	1242.7	1247.1	1251.5	1255.9
137.5°	1328.6	1325.8	1322.9	1320.0	1317.0	1313.8	1310.8	1307.7	1310.8	1313.8	1317.0
140°	1367.7	1364.6	1361.6	1359.0	1356.8	1354.6	1352.4	1350.2	1352.4	1354.6	1356.8
142.5°	1403.3	1399.9	1396.4	1393.7	1391.7	1389.8	1387.8	1385.8	1387.8	1389.8	1391.7
145°	1452.1	1447.4	1442.7	1440.6	1440.8	1441.1	1441.4	1441.6	1441.4	1441.1	1440.8
147.5°	1497.1	1492.5	1487.9	1486.1	1487.1	1488.2	1489.2	1490.3	1489.2	1488.2	1487.1
150°	1524.3	1519.8	1515.5	1514.2	1516.1	1518.1	1520.0	1522.0	1520.0	1518.1	1516.1
152.5°	1549.4	1545.2	1541.1	1540.0	1542.2	1544.3	1546.5	1548.6	1546.5	1544.3	1542.2
155°	1584.5	1581.2	1577.9	1577.5	1579.9	1582.5	1584.9	1587.4	1584.9	1582.5	1579.9
157.5°	1614.2	1611.8	1609.5	1609.4	1611.5	1613.6	1615.7	1617.8	1615.7	1613.6	1611.5
160°	1632.2	1630.6	1629.0	1629.0	1630.6	1632.2	1634.0	1635.6	1634.0	1632.2	1630.6
162.5°	1647.5	1646.1	1644.7	1644.8	1646.5	1648.1	1649.7	1651.4	1649.7	1648.1	1646.5
165°	1667.3	1666.5	1665.7	1666.1	1667.7	1669.3	1671.0	1672.6	1671.0	1669.3	1667.7
167.5°	1682.9	1682.2	1681.4	1681.8	1683.5	1685.2	1686.8	1688.5	1686.8	1685.2	1683.5
170°	1691.3	1690.7	1690.2	1690.7	1692.4	1694.0	1695.7	1697.4	1695.7	1694.0	1692.4
172.5°	1697.2	1696.7	1696.2	1696.7	1698.3	1700.0	1701.6	1703.2	1701.6	1700.0	1698.3
175°	1703.6	1703.1	1702.5	1703.2	1705.2	1707.1	1709.0	1710.9	1709.0	1707.1	1705.2
177.5°	1705.8	1705.6	1705.4	1706.0	1707.6	1709.1	1710.6	1712.1	1710.6	1709.1	1707.6
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2



TEST NUMBER: P331777-840

CATALOG NUMBER: S122RDIW-S290D1240U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	650.9	649.5	647.1	643.5	641.3	637.4	634.9	636.3	636.7	636.3	636.0
5°	633.4	628.5	621.9	615.4	609.5	603.1	599.4	597.8	594.6	592.8	591.8
7.5°	612.2	603.9	594.5	583.3	573.8	563.8	558.8	556.2	549.7	546.1	543.0
10°	596.4	583.3	573.9	559.3	550.3	537.2	528.3	528.6	519.6	514.5	510.9
12.5°	579.0	564.6	549.0	535.7	523.3	512.8	502.0	497.7	488.2	483.3	473.4
15°	550.1	533.3	516.8	499.0	486.4	470.0	454.4	435.4	420.0	406.7	403.0
17.5°	518.6	497.8	481.2	460.2	438.6	411.2	393.1	382.0	372.8	365.8	360.5
20°	496.9	475.7	458.1	426.5	397.3	378.7	365.5	356.9	347.3	339.7	335.6
22.5°	474.1	452.1	428.0	392.6	369.9	355.1	343.3	333.5	326.9	321.0	317.2
25°	441.8	417.7	378.0	353.8	335.4	319.7	311.5	305.6	298.7	290.6	287.0
27.5°	407.7	369.4	340.8	322.8	305.3	295.2	287.7	278.8	272.7	269.0	265.2
30°	382.1	343.9	321.6	301.8	289.5	278.2	269.5	264.5	258.5	252.4	249.8
32.5°	353.8	323.2	301.7	285.4	272.8	263.2	256.3	248.1	243.9	240.0	234.8
35°	318.4	295.2	275.7	262.5	250.4	242.7	234.7	229.8	222.1	218.8	216.8
37.5°	288.5	268.4	253.9	239.8	230.4	221.8	216.8	209.1	205.8	201.3	196.9
40°	271.6	251.9	237.9	226.4	215.8	209.4	203.3	197.0	192.0	190.0	184.7
42.5°	254.4	238.3	224.3	211.8	204.7	197.8	190.1	185.5	180.3	176.9	173.7
45°	230.6	216.3	204.4	194.1	186.2	179.2	174.1	166.5	163.6	156.9	154.1
47.5°	209.6	196.4	185.0	175.2	167.6	163.0	155.6	149.7	144.9	140.8	137.2
50°	194.8	183.7	172.7	164.0	157.1	150.5	142.9	140.0	132.6	130.5	128.5
52.5°	181.2	170.7	160.7	152.1	145.2	138.8	132.1	128.2	123.2	121.2	119.7
55°	162.2	152.1	142.5	134.9	128.1	121.4	117.2	112.4	110.1	108.5	106.6
57.5°	143.1	134.0	126.6	119.0	112.0	106.7	102.0	99.1	96.7	94.6	92.4
60°	131.0	122.3	115.6	108.5	101.4	97.0	93.4	89.9	87.2	83.9	83.0
62.5°	118.2	110.5	104.4	97.5	91.3	87.4	83.8	80.6	77.3	72.6	71.3
65°	100.5	94.5	88.1	82.3	76.9	72.9	67.9	64.2	62.8	62.4	62.2
67.5°	84.5	78.9	73.3	67.5	62.5	58.9	56.2	55.7	54.7	54.5	53.8
70°	73.8	68.6	63.1	57.6	52.7	52.1	51.2	50.2	49.1	48.7	48.2
72.5°	64.3	58.9	53.3	49.0	46.9	46.0	45.1	44.1	43.4	42.9	42.7
75°	49.3	44.2	40.6	39.0	37.9	37.2	35.7	35.1	34.6	33.9	33.7
77.5°	35.5	32.6	31.0	30.0	28.8	28.1	27.3	26.6	26.1	26.0	25.5
80°	27.1	25.7	24.5	23.1	22.7	21.8	21.6	20.9	21.1	20.4	20.4
82.5°	21.0	19.3	18.3	17.7	17.2	16.5	16.3	16.0	16.0	15.5	15.5
85°	10.8	10.3	9.9	9.4	9.4	8.7	9.0	8.7	8.7	8.3	8.1
87.5°	6.2	6.5	6.6	7.0	7.5	7.7	8.0	8.1	8.4	8.6	8.6
90°	13.3	16.0	18.1	20.3	22.5	24.7	26.1	27.5	28.8	30.2	31.2
92.5°	23.8	24.2	25.3	26.5	27.6	28.7	29.4	30.1	30.8	31.5	32.0
95°	44.0	40.5	42.4	44.3	46.3	48.2	49.6	50.9	52.3	53.6	54.2
97.5°	57.3	46.7	51.1	55.5	60.1	64.5	65.5	66.7	67.8	68.9	69.6
100°	68.3	51.7	56.5	61.1	65.7	70.4	72.6	74.8	77.0	79.2	80.6
102.5°	252.1	228.5	189.5	150.5	111.4	72.4	75.2	78.1	81.0	83.8	85.6
105°	408.5	375.2	300.2	225.2	150.3	75.3	78.4	81.4	84.4	87.5	89.5
107.5°	506.6	465.0	375.2	285.3	195.4	105.5	102.4	99.4	96.2	93.2	92.2
110°	570.3	533.5	454.2	374.9	295.5	216.2	188.7	161.3	133.8	106.3	93.2



TEST NUMBER: P331777-840

CATALOG NUMBER: S122RDIW-S290D1240U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	631.0	623.7	604.1	584.5	564.9	545.2	445.1	345.0	244.9	144.7	95.0
115°	729.0	734.8	741.6	748.5	755.4	762.2	635.1	508.0	380.9	253.8	180.4
117.5°	820.4	825.4	830.0	834.8	839.5	844.2	813.4	782.7	751.9	721.2	673.4
120°	881.2	885.8	890.7	895.6	900.6	905.4	908.8	912.1	915.3	918.7	901.8
122.5°	937.5	942.3	947.7	953.0	958.5	963.8	965.7	967.8	969.8	971.7	969.1
125°	1018.5	1023.0	1028.2	1033.4	1038.6	1043.9	1045.8	1047.7	1049.7	1051.6	1052.9
127.5°	1096.5	1100.4	1104.3	1108.2	1112.1	1116.0	1118.8	1121.6	1124.4	1127.2	1128.7
130°	1146.7	1150.3	1153.4	1156.4	1159.4	1162.5	1165.5	1168.5	1171.5	1174.5	1175.9
132.5°	1193.5	1196.8	1199.8	1202.9	1205.9	1208.9	1211.4	1214.1	1216.6	1219.2	1220.3
135°	1260.3	1263.7	1266.2	1268.7	1271.1	1273.6	1276.4	1279.1	1281.8	1284.6	1285.7
137.5°	1320.0	1322.9	1325.8	1328.6	1331.3	1334.1	1336.9	1339.5	1342.2	1344.9	1345.7
140°	1359.0	1361.6	1364.6	1367.7	1370.7	1373.7	1376.1	1378.7	1381.1	1383.6	1384.1
142.5°	1393.7	1396.4	1399.9	1403.3	1406.7	1410.3	1412.5	1414.7	1417.0	1419.3	1419.7
145°	1440.6	1442.7	1447.4	1452.1	1456.7	1461.4	1463.3	1465.2	1467.1	1469.1	1469.4
147.5°	1486.1	1487.9	1492.5	1497.1	1501.8	1506.3	1507.8	1509.2	1510.7	1512.1	1512.2
150°	1514.2	1515.5	1519.8	1524.3	1528.6	1533.1	1534.7	1536.3	1538.0	1539.6	1539.7
152.5°	1540.0	1541.1	1545.2	1549.4	1553.6	1557.7	1559.4	1561.0	1562.7	1564.4	1564.3
155°	1577.5	1577.9	1581.2	1584.5	1587.8	1591.1	1592.8	1594.4	1596.1	1597.7	1597.4
157.5°	1609.4	1609.5	1611.8	1614.2	1616.5	1618.8	1620.6	1622.6	1624.4	1626.3	1626.1
160°	1629.0	1629.0	1630.6	1632.2	1634.0	1635.6	1637.2	1638.9	1640.5	1642.1	1642.0
162.5°	1644.8	1644.7	1646.1	1647.5	1649.0	1650.4	1652.2	1654.2	1656.0	1657.9	1657.6
165°	1666.1	1665.7	1666.5	1667.3	1668.1	1668.9	1670.8	1672.7	1674.7	1676.6	1676.6
167.5°	1681.8	1681.4	1682.2	1682.9	1683.7	1684.5	1686.4	1688.3	1690.2	1692.1	1691.9
170°	1690.7	1690.2	1690.7	1691.3	1691.8	1692.4	1694.4	1696.3	1698.2	1700.1	1699.8
172.5°	1696.7	1696.2	1696.7	1697.2	1697.8	1698.3	1700.2	1702.1	1704.0	1706.0	1705.8
175°	1703.2	1702.5	1703.1	1703.6	1704.2	1704.8	1706.7	1708.6	1710.5	1712.4	1712.0
177.5°	1706.0	1705.4	1705.6	1705.8	1706.0	1706.3	1707.8	1709.3	1710.8	1712.4	1712.1
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2



TEST NUMBER: P331777-840

CATALOG NUMBER: S122RDIW-S290D1240U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	634.0	634.3	633.8	634.1	633.8	634.3	634.0	636.0	636.3	636.7	636.3
5°	590.7	587.9	587.4	586.8	587.4	587.9	590.7	591.8	592.8	594.6	597.8
7.5°	539.1	538.7	537.5	535.8	537.5	538.7	539.1	543.0	546.1	549.7	556.2
10°	505.8	504.6	504.4	502.8	504.4	504.6	505.8	510.9	514.5	519.6	528.6
12.5°	466.9	459.5	458.8	454.7	458.8	459.5	466.9	473.4	483.3	488.2	497.7
15°	397.6	396.2	391.5	388.6	391.5	396.2	397.6	403.0	406.7	420.0	435.4
17.5°	357.9	353.4	351.9	351.3	351.9	353.4	357.9	360.5	365.8	372.8	382.0
20°	332.3	328.3	327.6	327.1	327.6	328.3	332.3	335.6	339.7	347.3	356.9
22.5°	314.8	310.4	308.7	307.3	308.7	310.4	314.8	317.2	321.0	326.9	333.5
25°	284.7	283.1	282.2	281.7	282.2	283.1	284.7	287.0	290.6	298.7	305.6
27.5°	261.2	257.6	256.9	255.7	256.9	257.6	261.2	265.2	269.0	272.7	278.8
30°	247.7	246.6	245.0	243.6	245.0	246.6	247.7	249.8	252.4	258.5	264.5
32.5°	232.0	231.0	229.5	228.9	229.5	231.0	232.0	234.8	240.0	243.9	248.1
35°	214.5	211.3	209.8	207.8	209.8	211.3	214.5	216.8	218.8	222.1	229.8
37.5°	196.0	194.3	192.4	193.1	192.4	194.3	196.0	196.9	201.3	205.8	209.1
40°	181.7	180.6	180.1	179.9	180.1	180.6	181.7	184.7	190.0	192.0	197.0
42.5°	170.3	167.1	165.9	165.9	165.9	167.1	170.3	173.7	176.9	180.3	185.5
45°	153.0	150.1	147.9	148.1	147.9	150.1	153.0	154.1	156.9	163.6	166.5
47.5°	135.3	135.2	133.9	134.3	133.9	135.2	135.3	137.2	140.8	144.9	149.7
50°	126.8	125.5	124.5	124.8	124.5	125.5	126.8	128.5	130.5	132.6	140.0
52.5°	118.8	117.5	116.8	117.9	116.8	117.5	118.8	119.7	121.2	123.2	128.2
55°	105.5	104.1	103.9	103.7	103.9	104.1	105.5	106.6	108.5	110.1	112.4
57.5°	90.7	89.8	88.4	87.9	88.4	89.8	90.7	92.4	94.6	96.7	99.1
60°	80.1	78.3	75.9	75.7	75.9	78.3	80.1	83.0	83.9	87.2	89.9
62.5°	70.3	70.0	69.5	69.5	69.5	70.0	70.3	71.3	72.6	77.3	80.6
65°	61.7	61.5	61.7	61.9	61.7	61.5	61.7	62.2	62.4	62.8	64.2
67.5°	53.7	53.3	52.9	53.1	52.9	53.3	53.7	53.8	54.5	54.7	55.7
70°	47.7	47.5	47.3	47.3	47.3	47.5	47.7	48.2	48.7	49.1	50.2
72.5°	41.8	41.8	41.6	41.4	41.6	41.8	41.8	42.7	42.9	43.4	44.1
75°	33.5	33.0	33.0	33.0	33.0	33.0	33.5	33.7	33.9	34.6	35.1
77.5°	25.5	25.2	25.0	24.8	25.0	25.2	25.5	25.5	26.0	26.1	26.6
80°	20.2	20.0	19.7	19.7	19.7	20.0	20.2	20.4	20.4	21.1	20.9
82.5°	15.5	15.1	15.1	14.9	15.1	15.1	15.5	15.5	15.5	16.0	16.0
85°	8.3	8.5	8.3	8.7	8.3	8.5	8.3	8.1	8.3	8.7	8.7
87.5°	8.7	8.7	9.0	8.9	9.0	8.7	8.7	8.6	8.6	8.4	8.1
90°	31.7	32.2	32.8	33.3	32.8	32.2	31.7	31.2	30.2	28.8	27.5
92.5°	32.3	32.7	33.0	33.3	33.0	32.7	32.3	32.0	31.5	30.8	30.1
95°	53.9	53.6	53.4	53.1	53.4	53.6	53.9	54.2	53.6	52.3	50.9
97.5°	69.9	70.3	70.6	70.9	70.6	70.3	69.9	69.6	68.9	67.8	66.7
100°	81.1	81.7	82.2	82.8	82.2	81.7	81.1	80.6	79.2	77.0	74.8
102.5°	86.3	87.2	88.0	88.7	88.0	87.2	86.3	85.6	83.8	81.0	78.1
105°	90.6	91.7	92.8	93.9	92.8	91.7	90.6	89.5	87.5	84.4	81.4
107.5°	93.3	94.4	95.5	96.6	95.5	94.4	93.3	92.2	93.2	96.2	99.4
110°	94.3	95.4	96.5	97.6	96.5	95.4	94.3	93.2	106.3	133.8	161.3



TEST NUMBER: P331777-840

CATALOG NUMBER: S122RDIW-S290D1240U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	95.9	96.8	97.7	98.6	97.7	96.8	95.9	95.0	144.7	244.9	345.0
115°	160.6	140.9	121.1	101.3	121.1	140.9	160.6	180.4	253.8	380.9	508.0
117.5°	608.4	543.5	478.6	413.5	478.6	543.5	608.4	673.4	721.2	751.9	782.7
120°	864.7	827.7	790.6	753.6	790.6	827.7	864.7	901.8	918.7	915.3	912.1
122.5°	961.9	954.7	947.6	940.3	947.6	954.7	961.9	969.1	971.7	969.8	967.8
125°	1053.7	1054.6	1055.4	1056.2	1055.4	1054.6	1053.7	1052.9	1051.6	1049.7	1047.7
127.5°	1128.8	1129.0	1129.1	1129.3	1129.1	1129.0	1128.8	1128.7	1127.2	1124.4	1121.6
130°	1175.6	1175.4	1175.1	1174.8	1175.1	1175.4	1175.6	1175.9	1174.5	1171.5	1168.5
132.5°	1220.1	1219.8	1219.5	1219.3	1219.5	1219.8	1220.1	1220.3	1219.2	1216.6	1214.1
135°	1285.2	1284.6	1284.0	1283.5	1284.0	1284.6	1285.2	1285.7	1284.6	1281.8	1279.1
137.5°	1344.8	1343.9	1343.0	1342.0	1343.0	1343.9	1344.8	1345.7	1344.9	1342.2	1339.5
140°	1382.7	1381.4	1380.0	1378.7	1380.0	1381.4	1382.7	1384.1	1383.6	1381.1	1378.7
142.5°	1418.4	1416.9	1415.5	1414.2	1415.5	1416.9	1418.4	1419.7	1419.3	1417.0	1414.7
145°	1467.9	1466.6	1465.2	1463.9	1465.2	1466.6	1467.9	1469.4	1469.1	1467.1	1465.2
147.5°	1511.1	1509.8	1508.7	1507.6	1508.7	1509.8	1511.1	1512.2	1512.1	1510.7	1509.2
150°	1538.4	1537.0	1535.6	1534.3	1535.6	1537.0	1538.4	1539.7	1539.6	1538.0	1536.3
152.5°	1562.5	1560.6	1558.8	1557.0	1558.8	1560.6	1562.5	1564.3	1564.4	1562.7	1561.0
155°	1595.2	1593.1	1590.8	1588.6	1590.8	1593.1	1595.2	1597.4	1597.7	1596.1	1594.4
157.5°	1624.0	1621.8	1619.7	1617.5	1619.7	1621.8	1624.0	1626.1	1626.3	1624.4	1622.6
160°	1640.1	1638.2	1636.3	1634.4	1636.3	1638.2	1640.1	1642.0	1642.1	1640.5	1638.9
162.5°	1655.3	1652.8	1650.5	1648.2	1650.5	1652.8	1655.3	1657.6	1657.9	1656.0	1654.2
165°	1674.7	1672.7	1670.8	1668.9	1670.8	1672.7	1674.7	1676.6	1676.6	1674.7	1672.7
167.5°	1689.4	1687.0	1684.5	1682.0	1684.5	1687.0	1689.4	1691.9	1692.1	1690.2	1688.3
170°	1697.4	1694.9	1692.4	1689.9	1692.4	1694.9	1697.4	1699.8	1700.1	1698.2	1696.3
172.5°	1703.2	1700.8	1698.3	1695.9	1698.3	1700.8	1703.2	1705.8	1706.0	1704.0	1702.1
175°	1709.3	1706.6	1703.7	1701.0	1703.7	1706.6	1709.3	1712.0	1712.4	1710.5	1708.6
177.5°	1710.2	1708.2	1706.3	1704.2	1706.3	1708.2	1710.2	1712.1	1712.4	1710.8	1709.3
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2



TEST NUMBER: P331777-840

CATALOG NUMBER: S122RDIW-S290D1240U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	634.9	637.4	641.3	643.5	647.1	649.5	650.9	653.2	654.5	659.1	663.9
5°	599.4	603.1	609.5	615.4	621.9	628.5	633.4	638.8	643.9	652.6	661.8
7.5°	558.8	563.8	573.8	583.3	594.5	603.9	612.2	621.6	630.0	642.5	655.5
10°	528.3	537.2	550.3	559.3	573.9	583.3	596.4	606.7	618.4	635.0	649.6
12.5°	502.0	512.8	523.3	535.7	549.0	564.6	579.0	592.3	606.1	623.2	640.5
15°	454.4	470.0	486.4	499.0	516.8	533.3	550.1	567.9	584.9	605.4	627.8
17.5°	393.1	411.2	438.6	460.2	481.2	497.8	518.6	540.2	560.2	584.8	609.9
20°	365.5	378.7	397.3	426.5	458.1	475.7	496.9	520.7	543.6	570.5	597.3
22.5°	343.3	355.1	369.9	392.6	428.0	452.1	474.1	498.4	524.9	552.3	582.1
25°	311.5	319.7	335.4	353.8	378.0	417.7	441.8	466.2	495.0	524.4	558.4
27.5°	287.7	295.2	305.3	322.8	340.8	369.4	407.7	434.2	463.0	496.0	531.3
30°	269.5	278.2	289.5	301.8	321.6	343.9	382.1	412.9	441.3	475.3	512.9
32.5°	256.3	263.2	272.8	285.4	301.7	323.2	353.8	391.0	418.8	454.5	493.8
35°	234.7	242.7	250.4	262.5	275.7	295.2	318.4	358.3	385.9	421.1	460.6
37.5°	216.8	221.8	230.4	239.8	253.9	268.4	288.5	324.3	354.1	388.7	429.1
40°	203.3	209.4	215.8	226.4	237.9	251.9	271.6	298.2	332.3	366.4	405.8
42.5°	190.1	197.8	204.7	211.8	224.3	238.3	254.4	276.9	311.8	344.0	382.3
45°	174.1	179.2	186.2	194.1	204.4	216.3	230.6	250.2	283.8	311.5	347.5
47.5°	155.6	163.0	167.6	175.2	185.0	196.4	209.6	226.7	253.8	279.8	313.3
50°	142.9	150.5	157.1	164.0	172.7	183.7	194.8	211.3	233.1	260.3	291.5
52.5°	132.1	138.8	145.2	152.1	160.7	170.7	181.2	195.7	214.3	239.4	269.7
55°	117.2	121.4	128.1	134.9	142.5	152.1	162.2	174.3	190.4	211.5	236.0
57.5°	102.0	106.7	112.0	119.0	126.6	134.0	143.1	154.1	166.7	185.8	206.8
60°	93.4	97.0	101.4	108.5	115.6	122.3	131.0	140.2	152.1	168.6	186.5
62.5°	83.8	87.4	91.3	97.5	104.4	110.5	118.2	127.8	137.9	153.0	168.6
65°	67.9	72.9	76.9	82.3	88.1	94.5	100.5	108.3	117.2	129.2	143.1
67.5°	56.2	58.9	62.5	67.5	73.3	78.9	84.5	90.6	98.4	107.6	118.7
70°	51.2	52.1	52.7	57.6	63.1	68.6	73.8	79.6	86.2	93.8	103.4
72.5°	45.1	46.0	46.9	49.0	53.3	58.9	64.3	68.6	74.8	81.2	89.0
75°	35.7	37.2	37.9	39.0	40.6	44.2	49.3	53.4	57.2	61.9	68.2
77.5°	27.3	28.1	28.8	30.0	31.0	32.6	35.5	39.2	42.7	45.4	49.7
80°	21.6	21.8	22.7	23.1	24.5	25.7	27.1	30.1	33.5	34.6	37.7
82.5°	16.3	16.5	17.2	17.7	18.3	19.3	21.0	21.8	24.5	26.1	27.9
85°	9.0	8.7	9.4	9.4	9.9	10.3	10.8	11.9	12.6	14.4	14.9
87.5°	8.0	7.7	7.5	7.0	6.6	6.5	6.2	5.8	5.5	5.5	5.6
90°	26.1	24.7	22.5	20.3	18.1	16.0	13.3	10.3	7.3	4.2	1.2
92.5°	29.4	28.7	27.6	26.5	25.3	24.2	23.8	24.1	24.4	24.6	24.9
95°	49.6	48.2	46.3	44.3	42.4	40.5	44.0	53.1	62.2	71.2	80.3
97.5°	65.5	64.5	60.1	55.5	51.1	46.7	57.3	82.8	108.3	133.8	159.4
100°	72.6	70.4	65.7	61.1	56.5	51.7	68.3	105.8	143.4	181.1	218.6
102.5°	75.2	72.4	111.4	150.5	189.5	228.5	252.1	260.0	267.9	275.9	283.9
105°	78.4	75.3	150.3	225.2	300.2	375.2	408.5	400.2	392.0	383.7	375.6
107.5°	102.4	105.5	195.4	285.3	375.2	465.0	506.6	500.0	493.3	486.7	480.1
110°	188.7	216.2	295.5	374.9	454.2	533.5	570.3	564.5	558.8	553.0	547.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	445.1	545.2	564.9	584.5	604.1	623.7	631.0	625.8	620.7	615.6	610.5
115°	635.1	762.2	755.4	748.5	741.6	734.8	729.0	724.3	719.6	715.0	710.3
117.5°	813.4	844.2	839.5	834.8	830.0	825.4	820.4	815.2	809.9	804.8	799.5
120°	908.8	905.4	900.6	895.6	890.7	885.8	881.2	877.1	872.9	868.9	864.7
122.5°	965.7	963.8	958.5	953.0	947.7	942.3	937.5	933.1	928.8	924.4	920.1
125°	1045.8	1043.9	1038.6	1033.4	1028.2	1023.0	1018.5	1015.0	1011.5	1007.8	1004.3
127.5°	1118.8	1116.0	1112.1	1108.2	1104.3	1100.4	1096.5	1092.6	1088.5	1084.6	1080.7
130°	1165.5	1162.5	1159.4	1156.4	1153.4	1150.3	1146.7	1142.3	1137.9	1133.5	1129.1
132.5°	1211.4	1208.9	1205.9	1202.9	1199.8	1196.8	1193.5	1189.7	1186.0	1182.2	1178.5
135°	1276.4	1273.6	1271.1	1268.7	1266.2	1263.7	1260.3	1255.9	1251.5	1247.1	1242.7
137.5°	1336.9	1334.1	1331.3	1328.6	1325.8	1322.9	1320.0	1317.0	1313.8	1310.8	1307.7
140°	1376.1	1373.7	1370.7	1367.7	1364.6	1361.6	1359.0	1356.8	1354.6	1352.4	1350.2
142.5°	1412.5	1410.3	1406.7	1403.3	1399.9	1396.4	1393.7	1391.7	1389.8	1387.8	1385.8
145°	1463.3	1461.4	1456.7	1452.1	1447.4	1442.7	1440.6	1440.8	1441.1	1441.4	1441.6
147.5°	1507.8	1506.3	1501.8	1497.1	1492.5	1487.9	1486.1	1487.1	1488.2	1489.2	1490.3
150°	1534.7	1533.1	1528.6	1524.3	1519.8	1515.5	1514.2	1516.1	1518.1	1520.0	1522.0
152.5°	1559.4	1557.7	1553.6	1549.4	1545.2	1541.1	1540.0	1542.2	1544.3	1546.5	1548.6
155°	1592.8	1591.1	1587.8	1584.5	1581.2	1577.9	1577.5	1579.9	1582.5	1584.9	1587.4
157.5°	1620.6	1618.8	1616.5	1614.2	1611.8	1609.5	1609.4	1611.5	1613.6	1615.7	1617.8
160°	1637.2	1635.6	1634.0	1632.2	1630.6	1629.0	1629.0	1630.6	1632.2	1634.0	1635.6
162.5°	1652.2	1650.4	1649.0	1647.5	1646.1	1644.7	1644.8	1646.5	1648.1	1649.7	1651.4
165°	1670.8	1668.9	1668.1	1667.3	1666.5	1665.7	1666.1	1667.7	1669.3	1671.0	1672.6
167.5°	1686.4	1684.5	1683.7	1682.9	1682.2	1681.4	1681.8	1683.5	1685.2	1686.8	1688.5
170°	1694.4	1692.4	1691.8	1691.3	1690.7	1690.2	1690.7	1692.4	1694.0	1695.7	1697.4
172.5°	1700.2	1698.3	1697.8	1697.2	1696.7	1696.2	1696.7	1698.3	1700.0	1701.6	1703.2
175°	1706.7	1704.8	1704.2	1703.6	1703.1	1702.5	1703.2	1705.2	1707.1	1709.0	1710.9
177.5°	1707.8	1706.3	1706.0	1705.8	1705.6	1705.4	1706.0	1707.6	1709.1	1710.6	1712.1
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2



TEST NUMBER: P331777-840

CATALOG NUMBER: S122RDIW-S290D1240U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	664.1	664.6	668.2	669.9	673.2	674.5	676.0	675.6	675.6	676.3	681.5
5°	665.5	670.0	676.9	683.6	690.0	695.5	699.2	702.9	704.3	710.8	716.8
7.5°	663.1	671.6	682.9	693.1	705.2	714.7	722.6	729.7	734.6	744.3	754.2
10°	659.9	671.9	684.7	697.8	714.6	727.2	740.0	749.9	753.1	767.5	775.8
12.5°	653.7	669.6	686.0	703.0	719.3	736.7	750.8	760.7	772.0	785.0	800.2
15°	644.4	662.7	684.1	705.8	729.2	750.3	765.5	782.6	795.1	809.3	822.6
17.5°	631.0	654.6	681.7	706.9	734.0	756.6	777.5	794.0	802.6	810.8	812.7
20°	620.3	645.7	677.6	707.4	734.5	760.6	781.3	795.1	797.4	797.6	785.5
22.5°	608.7	637.5	670.9	701.4	733.8	762.9	778.9	784.8	775.7	760.1	736.6
25°	587.4	620.8	659.5	694.4	729.7	757.2	762.8	752.5	720.5	687.0	644.6
27.5°	564.4	601.9	643.4	682.2	719.8	736.9	725.0	687.7	630.4	580.4	519.9
30°	547.5	589.6	630.4	673.7	708.6	715.9	688.6	633.8	566.8	491.6	431.2
32.5°	528.3	572.3	617.1	662.0	691.2	684.0	638.9	571.4	492.9	418.9	361.9
35°	500.8	546.1	594.6	639.5	658.1	627.1	559.7	471.8	391.5	322.6	283.3
37.5°	469.0	518.5	568.8	610.1	608.7	557.1	465.2	374.6	307.1	266.2	238.3
40°	446.4	496.4	550.8	585.6	570.8	503.5	403.9	318.4	269.0	236.5	216.1
42.5°	424.7	474.9	529.0	556.6	530.7	448.1	348.9	281.9	241.2	215.8	199.2
45°	387.9	440.9	490.9	506.2	459.9	368.9	282.2	233.5	206.4	187.6	176.2
47.5°	351.8	404.0	449.7	449.9	387.3	299.1	238.0	202.1	178.9	164.4	156.1
50°	329.8	379.4	417.7	411.7	340.6	266.1	212.9	181.9	162.7	151.4	142.7
52.5°	305.1	353.1	386.4	369.4	301.1	234.2	190.3	164.3	148.3	138.6	130.8
55°	269.0	311.7	335.2	309.4	245.7	194.8	160.8	140.4	128.5	120.2	113.5
57.5°	233.7	268.9	283.6	253.7	202.4	161.5	136.0	120.7	108.9	102.9	99.5
60°	211.5	241.6	251.9	218.8	175.9	141.3	120.5	106.2	97.5	93.6	90.2
62.5°	189.7	214.2	218.4	188.2	153.4	123.7	105.7	93.7	88.0	84.2	81.0
65°	157.3	175.0	173.0	148.7	121.4	98.2	85.1	77.8	73.4	68.2	62.4
67.5°	129.6	140.4	133.8	115.6	92.6	76.3	67.8	62.2	56.8	51.8	50.5
70°	111.9	118.2	111.3	94.5	75.9	64.0	57.2	50.5	47.3	46.2	44.0
72.5°	95.0	97.3	89.8	75.4	61.8	53.0	46.3	42.6	40.8	39.9	38.6
75°	71.3	69.8	63.3	52.1	42.9	37.0	34.8	33.5	32.3	31.4	30.7
77.5°	50.1	47.8	42.0	34.6	29.9	27.1	25.8	25.0	24.5	24.0	23.3
80°	37.7	36.1	30.3	24.7	22.7	21.3	20.6	19.7	19.7	19.3	18.6
82.5°	27.6	25.8	20.7	18.2	17.1	16.2	15.7	15.1	14.9	15.0	14.5
85°	14.4	11.7	10.3	9.9	9.2	8.7	9.0	8.5	8.5	8.5	8.3
87.5°	5.3	4.9	5.4	5.8	6.5	7.0	7.2	7.6	8.3	8.4	8.8
90°	4.2	7.3	10.3	13.3	16.0	18.1	20.3	22.5	24.7	26.1	27.5
92.5°	24.6	24.4	24.1	23.8	24.2	25.3	26.5	27.6	28.7	29.4	30.1
95°	71.2	62.2	53.1	44.0	40.5	42.4	44.3	46.3	48.2	49.6	50.9
97.5°	133.8	108.3	82.8	57.3	46.7	51.1	55.5	60.1	64.5	65.5	66.7
100°	181.1	143.4	105.8	68.3	51.7	56.5	61.1	65.7	70.4	72.6	74.8
102.5°	275.9	267.9	260.0	252.1	228.5	189.5	150.5	111.4	72.4	75.2	78.1
105°	383.7	392.0	400.2	408.5	375.2	300.2	225.2	150.3	75.3	78.4	81.4
107.5°	486.7	493.3	500.0	506.6	465.0	375.2	285.3	195.4	105.5	102.4	99.4
110°	553.0	558.8	564.5	570.3	533.5	454.2	374.9	295.5	216.2	188.7	161.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	615.6	620.7	625.8	631.0	623.7	604.1	584.5	564.9	545.2	445.1	345.0
115°	715.0	719.6	724.3	729.0	734.8	741.6	748.5	755.4	762.2	635.1	508.0
117.5°	804.8	809.9	815.2	820.4	825.4	830.0	834.8	839.5	844.2	813.4	782.7
120°	868.9	872.9	877.1	881.2	885.8	890.7	895.6	900.6	905.4	908.8	912.1
122.5°	924.4	928.8	933.1	937.5	942.3	947.7	953.0	958.5	963.8	965.7	967.8
125°	1007.8	1011.5	1015.0	1018.5	1023.0	1028.2	1033.4	1038.6	1043.9	1045.8	1047.7
127.5°	1084.6	1088.5	1092.6	1096.5	1100.4	1104.3	1108.2	1112.1	1116.0	1118.8	1121.6
130°	1133.5	1137.9	1142.3	1146.7	1150.3	1153.4	1156.4	1159.4	1162.5	1165.5	1168.5
132.5°	1182.2	1186.0	1189.7	1193.5	1196.8	1199.8	1202.9	1205.9	1208.9	1211.4	1214.1
135°	1247.1	1251.5	1255.9	1260.3	1263.7	1266.2	1268.7	1271.1	1273.6	1276.4	1279.1
137.5°	1310.8	1313.8	1317.0	1320.0	1322.9	1325.8	1328.6	1331.3	1334.1	1336.9	1339.5
140°	1352.4	1354.6	1356.8	1359.0	1361.6	1364.6	1367.7	1370.7	1373.7	1376.1	1378.7
142.5°	1387.8	1389.8	1391.7	1393.7	1396.4	1399.9	1403.3	1406.7	1410.3	1412.5	1414.7
145°	1441.4	1441.1	1440.8	1440.6	1442.7	1447.4	1452.1	1456.7	1461.4	1463.3	1465.2
147.5°	1489.2	1488.2	1487.1	1486.1	1487.9	1492.5	1497.1	1501.8	1506.3	1507.8	1509.2
150°	1520.0	1518.1	1516.1	1514.2	1515.5	1519.8	1524.3	1528.6	1533.1	1534.7	1536.3
152.5°	1546.5	1544.3	1542.2	1540.0	1541.1	1545.2	1549.4	1553.6	1557.7	1559.4	1561.0
155°	1584.9	1582.5	1579.9	1577.5	1577.9	1581.2	1584.5	1587.8	1591.1	1592.8	1594.4
157.5°	1615.7	1613.6	1611.5	1609.4	1609.5	1611.8	1614.2	1616.5	1618.8	1620.6	1622.6
160°	1634.0	1632.2	1630.6	1629.0	1629.0	1630.6	1632.2	1634.0	1635.6	1637.2	1638.9
162.5°	1649.7	1648.1	1646.5	1644.8	1644.7	1646.1	1647.5	1649.0	1650.4	1652.2	1654.2
165°	1671.0	1669.3	1667.7	1666.1	1665.7	1666.5	1667.3	1668.1	1668.9	1670.8	1672.7
167.5°	1686.8	1685.2	1683.5	1681.8	1681.4	1682.2	1682.9	1683.7	1684.5	1686.4	1688.3
170°	1695.7	1694.0	1692.4	1690.7	1690.2	1690.7	1691.3	1691.8	1692.4	1694.4	1696.3
172.5°	1701.6	1700.0	1698.3	1696.7	1696.2	1696.7	1697.2	1697.8	1698.3	1700.2	1702.1
175°	1709.0	1707.1	1705.2	1703.2	1702.5	1703.1	1703.6	1704.2	1704.8	1706.7	1708.6
177.5°	1710.6	1709.1	1707.6	1706.0	1705.4	1705.6	1705.8	1706.0	1706.3	1707.8	1709.3
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	683.3	685.7	686.8	686.8	688.1	687.5	687.0
5°	722.6	726.9	727.9	732.0	735.0	734.1	734.5
7.5°	761.6	768.6	775.6	778.7	779.2	781.0	781.7
10°	785.7	791.4	802.1	800.6	808.6	813.2	805.7
12.5°	808.8	816.6	824.0	826.1	830.6	832.1	829.1
15°	829.7	833.8	834.2	833.1	834.6	833.3	829.0
17.5°	810.2	803.4	789.9	783.5	778.4	770.8	767.8
20°	777.9	758.1	735.2	726.0	715.3	694.2	699.2
22.5°	708.1	685.7	662.7	635.9	623.1	603.1	601.9
25°	599.7	560.9	518.2	488.4	470.9	451.0	442.2
27.5°	466.3	417.4	382.4	364.8	348.6	332.9	332.1
30°	378.5	341.8	314.8	299.6	289.7	283.1	284.5
32.5°	319.0	293.9	275.6	263.1	255.8	250.7	250.6
35°	260.8	243.6	231.9	226.6	221.4	217.7	217.9
37.5°	223.2	212.9	206.3	200.6	197.2	195.4	194.4
40°	203.9	195.4	190.4	186.9	184.2	181.7	181.2
42.5°	188.7	181.7	176.6	173.9	171.4	169.6	169.2
45°	167.4	161.7	157.1	154.1	153.0	151.4	151.4
47.5°	149.0	143.3	139.8	137.8	135.9	134.8	134.8
50°	136.5	132.1	129.0	127.7	126.1	125.5	125.2
52.5°	125.3	122.0	119.8	119.0	118.3	117.4	117.5
55°	110.1	108.3	107.3	106.6	105.5	104.1	105.0
57.5°	97.4	95.7	93.3	91.1	90.1	89.1	89.5
60°	88.4	85.1	81.9	79.4	78.7	76.6	76.6
62.5°	77.0	72.4	68.5	67.1	66.3	65.4	65.2
65°	59.2	57.4	56.5	55.5	55.0	55.0	54.6
67.5°	49.1	48.3	47.3	47.1	46.7	46.5	46.4
70°	43.3	42.4	42.0	41.7	41.3	41.5	40.8
72.5°	37.9	37.2	37.1	36.5	36.2	36.2	35.6
75°	29.8	29.8	29.6	29.4	28.9	28.7	28.9
77.5°	22.9	23.0	22.6	22.5	22.5	22.5	22.3
80°	18.4	18.6	18.4	18.1	17.9	18.1	17.9
82.5°	14.5	14.1	14.1	14.0	14.0	13.9	13.8
85°	8.3	8.5	8.3	8.1	8.1	8.1	8.3
87.5°	8.9	9.2	9.4	9.5	9.6	9.7	9.6
90°	28.8	30.2	31.2	31.7	32.2	32.8	33.3
92.5°	30.8	31.5	32.0	32.3	32.7	33.0	33.3
95°	52.3	53.6	54.2	53.9	53.6	53.4	53.1
97.5°	67.8	68.9	69.6	69.9	70.3	70.6	70.9
100°	77.0	79.2	80.6	81.1	81.7	82.2	82.8
102.5°	81.0	83.8	85.6	86.3	87.2	88.0	88.7
105°	84.4	87.5	89.5	90.6	91.7	92.8	93.9
107.5°	96.2	93.2	92.2	93.3	94.4	95.5	96.6
110°	133.8	106.3	93.2	94.3	95.4	96.5	97.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	244.9	144.7	95.0	95.9	96.8	97.7	98.6
115°	380.9	253.8	180.4	160.6	140.9	121.1	101.3
117.5°	751.9	721.2	673.4	608.4	543.5	478.6	413.5
120°	915.3	918.7	901.8	864.7	827.7	790.6	753.6
122.5°	969.8	971.7	969.1	961.9	954.7	947.6	940.3
125°	1049.7	1051.6	1052.9	1053.7	1054.6	1055.4	1056.2
127.5°	1124.4	1127.2	1128.7	1128.8	1129.0	1129.1	1129.3
130°	1171.5	1174.5	1175.9	1175.6	1175.4	1175.1	1174.8
132.5°	1216.6	1219.2	1220.3	1220.1	1219.8	1219.5	1219.3
135°	1281.8	1284.6	1285.7	1285.2	1284.6	1284.0	1283.5
137.5°	1342.2	1344.9	1345.7	1344.8	1343.9	1343.0	1342.0
140°	1381.1	1383.6	1384.1	1382.7	1381.4	1380.0	1378.7
142.5°	1417.0	1419.3	1419.7	1418.4	1416.9	1415.5	1414.2
145°	1467.1	1469.1	1469.4	1467.9	1466.6	1465.2	1463.9
147.5°	1510.7	1512.1	1512.2	1511.1	1509.8	1508.7	1507.6
150°	1538.0	1539.6	1539.7	1538.4	1537.0	1535.6	1534.3
152.5°	1562.7	1564.4	1564.3	1562.5	1560.6	1558.8	1557.0
155°	1596.1	1597.7	1597.4	1595.2	1593.1	1590.8	1588.6
157.5°	1624.4	1626.3	1626.1	1624.0	1621.8	1619.7	1617.5
160°	1640.5	1642.1	1642.0	1640.1	1638.2	1636.3	1634.4
162.5°	1656.0	1657.9	1657.6	1655.3	1652.8	1650.5	1648.2
165°	1674.7	1676.6	1676.6	1674.7	1672.7	1670.8	1668.9
167.5°	1690.2	1692.1	1691.9	1689.4	1687.0	1684.5	1682.0
170°	1698.2	1700.1	1699.8	1697.4	1694.9	1692.4	1689.9
172.5°	1704.0	1706.0	1705.8	1703.2	1700.8	1698.3	1695.9
175°	1710.5	1712.4	1712.0	1709.3	1706.6	1703.7	1701.0
177.5°	1710.8	1712.4	1712.1	1710.2	1708.2	1706.3	1704.2
180°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2

(END OF REPORT)