

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: P331781-935

Luminaire Tested: **S122RDIW-S290D1440U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331781-935  
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-S290D1440U935-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1440 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5936.4 lumens  
Efficiency: N/A  
Efficacy: 111.2 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

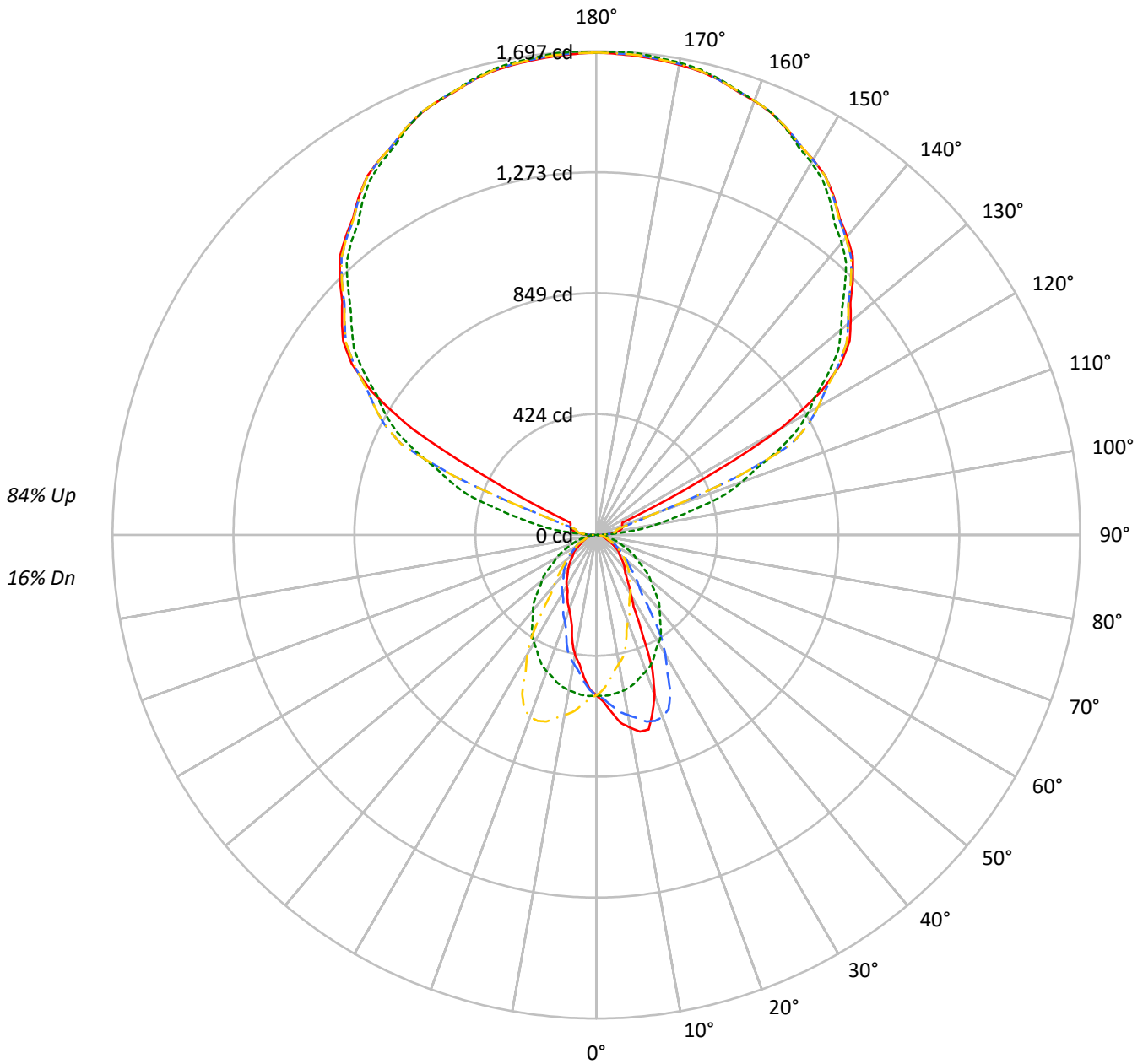
Input Watts (W): 53.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°    - - - 135°-315°



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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	99	99	99	99	87	87	87	87	65	65	65	44	44	44	25	25	25	16
1	91	86	83	80	79	76	73	71	57	55	53	39	38	37	23	22	22	14
2	83	76	70	65	72	67	62	58	50	47	44	35	33	31	20	19	19	12
3	75	67	60	55	66	59	53	49	44	41	38	31	29	27	18	17	16	11
4	69	59	52	46	60	52	46	41	39	35	32	28	25	23	16	15	14	10
5	63	53	45	40	55	47	40	36	35	31	28	25	22	20	15	14	12	9
6	58	47	40	34	51	42	35	31	32	27	24	22	20	18	14	12	11	8
7	54	42	35	30	47	38	31	27	29	24	21	20	18	16	12	11	10	7
8	50	38	31	26	44	34	28	24	26	22	19	19	16	14	11	10	9	6
9	46	35	28	23	41	31	25	21	24	20	17	17	14	12	11	9	8	6
10	43	32	25	21	38	28	23	19	22	18	15	16	13	11	10	8	7	5

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

	0°	90°	180°	270°
0°	9087	9087	9087	9087
5°	10149	9144	8109	9144
10°	11262	9081	7029	9081
15°	11814	8948	5538	8948
20°	10244	8751	4792	8751
25°	6716	8480	4277	8480
30°	4521	8153	3872	8153
35°	3662	7740	3493	7740
40°	3256	7290	3231	7290
45°	2948	6766	2884	6766
50°	2683	6244	2673	6244
55°	2519	5664	2488	5664
60°	2109	5134	2086	5134
65°	1780	4661	2017	4661
70°	1643	4164	1902	4164
75°	1535	3624	1759	3624
80°	1413	2985	1562	2985
85°	1315	2353	1371	2353



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.4	0.9
10°-20°	148.7	2.5
20°-30°	191.6	3.2
30°-40°	182.1	3.1
40°-50°	156.0	2.6
50°-60°	118.8	2.0
60°-70°	75.1	1.3
70°-80°	37.5	0.6
80°-90°	13.9	0.2
90°-100°	56.5	1.0
100°-110°	207.0	3.5
110°-120°	553.4	9.3
120°-130°	913.5	15.4
130°-140°	971.4	16.4
140°-150°	902.9	15.2
150°-160°	726.0	12.2
160°-170°	467.8	7.9
170°-180°	161.0	2.7
0°-30°	393.6	6.6
0°-40°	575.7	9.7
0°-60°	850.4	14.3
0°-90°	976.9	16.5
90°-120°	816.8	13.8
90°-150°	3604.6	60.7
90°-180°	4959.0	83.5
0°-180°	5936.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	563	563	563	563	563	
5°	626	564	500	564	626	62
15°	707	535	331	535	707	191
25°	377	476	240	476	377	179
35°	186	393	177	393	186	119
45°	129	296	126	296	129	100
55°	90	201	88	201	90	79
65°	47	122	53	122	47	47
75°	25	58	28	58	25	26
85°	7	13	7	13	7	8
90°	33	1	33	1	33	15
95°	53	80	53	80	53	49
105°	93	372	93	372	93	97
115°	100	704	100	704	100	251
125°	1047	996	1047	996	1047	906
135°	1272	1232	1272	1232	1272	981
145°	1451	1429	1451	1429	1451	907
155°	1575	1574	1575	1574	1575	727
165°	1654	1658	1654	1658	1654	467
175°	1686	1696	1686	1696	1686	161
180°	1692	1692	1692	1692	1692	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	585.7	586.2	586.7	585.6	585.6	584.6	582.6	581.0	576.6	576.0	576.0
5°	626.2	625.9	626.6	624.1	620.6	619.7	616.0	611.1	606.1	600.5	599.3
7.5°	666.5	665.9	664.3	663.9	661.2	655.3	649.4	643.0	634.6	626.3	622.2
10°	686.9	693.4	689.4	682.6	683.9	674.8	669.9	661.4	654.4	642.0	639.4
12.5°	706.9	709.5	708.2	704.3	702.6	696.2	689.6	682.3	669.3	658.2	648.6
15°	706.8	710.5	711.5	710.3	711.3	710.9	707.4	701.4	690.0	677.9	667.3
17.5°	654.6	657.2	663.7	668.0	673.5	685.0	690.8	692.9	691.3	684.3	676.9
20°	596.2	591.9	609.8	619.0	626.8	646.4	663.2	669.7	680.0	679.8	677.9
22.5°	513.2	514.2	531.2	542.2	565.0	584.6	603.7	628.0	648.1	661.3	669.1
25°	377.0	384.5	401.5	416.4	441.8	478.2	511.3	549.6	585.7	614.3	641.5
27.5°	283.2	283.8	297.2	311.0	326.1	355.9	397.5	443.2	494.8	537.4	586.3
30°	242.5	241.3	247.0	255.5	268.4	291.4	322.7	367.6	419.1	483.3	540.4
32.5°	213.7	213.8	218.1	224.3	235.0	250.6	272.0	308.6	357.1	420.3	487.2
35°	185.8	185.6	188.7	193.2	197.7	207.7	222.4	241.5	275.0	333.8	402.3
37.5°	165.7	166.6	168.2	171.0	175.9	181.5	190.3	203.2	227.0	261.8	319.3
40°	154.5	154.9	157.0	159.4	162.3	166.6	173.8	184.3	201.6	229.4	271.5
42.5°	144.2	144.6	146.1	148.3	150.6	154.9	160.9	169.9	184.0	205.6	240.3
45°	129.1	129.1	130.4	131.4	134.0	137.8	142.8	150.2	160.0	176.0	199.1
47.5°	114.9	114.9	115.9	117.5	119.2	122.2	127.0	133.1	140.2	152.6	172.3
50°	106.8	107.0	107.5	108.9	109.9	112.6	116.4	121.7	129.1	138.7	155.1
52.5°	100.2	100.1	100.8	101.4	102.1	104.0	106.9	111.5	118.1	126.5	140.1
55°	89.5	88.8	90.0	90.9	91.5	92.3	93.8	96.8	102.5	109.5	119.7
57.5°	76.3	75.9	76.8	77.7	79.6	81.6	83.0	84.8	87.7	92.8	102.9
60°	65.3	65.3	67.1	67.7	69.8	72.6	75.3	76.9	79.8	83.1	90.6
62.5°	55.6	55.8	56.6	57.2	58.4	61.7	65.6	69.1	71.8	75.0	79.9
65°	46.6	46.9	46.9	47.4	48.1	48.9	50.5	53.2	58.1	62.6	66.3
67.5°	39.5	39.6	39.8	40.1	40.3	41.2	41.8	43.0	44.2	48.4	53.0
70°	34.8	35.4	35.2	35.6	35.8	36.2	36.9	37.5	39.3	40.3	43.0
72.5°	30.4	30.8	30.8	31.1	31.6	31.7	32.3	32.9	34.0	34.8	36.3
75°	24.6	24.5	24.6	25.1	25.2	25.4	25.4	26.2	26.8	27.6	28.6
77.5°	19.0	19.2	19.2	19.2	19.3	19.6	19.5	19.9	20.5	20.9	21.4
80°	15.2	15.4	15.2	15.4	15.7	15.8	15.7	15.8	16.4	16.8	16.8
82.5°	11.8	11.9	12.0	12.0	12.1	12.1	12.4	12.4	12.8	12.7	12.9
85°	7.1	6.9	6.9	6.9	7.1	7.2	7.1	7.1	7.2	7.2	7.2
87.5°	9.1	9.1	9.0	9.0	8.9	8.6	8.4	8.3	7.8	7.7	7.1
90°	33.1	32.5	31.9	31.4	30.9	30.0	28.6	27.2	25.8	24.5	22.3
92.5°	33.1	32.7	32.4	32.1	31.8	31.3	30.6	29.8	29.1	28.4	27.3
95°	52.7	53.0	53.2	53.5	53.7	53.2	51.8	50.5	49.1	47.8	45.9
97.5°	70.3	70.0	69.7	69.3	69.0	68.3	67.2	66.1	65.0	63.9	59.5
100°	82.1	81.5	80.9	80.4	79.9	78.5	76.4	74.1	72.0	69.8	65.2
102.5°	87.9	87.1	86.4	85.7	84.9	83.1	80.2	77.4	74.6	71.7	110.5
105°	93.1	92.0	90.9	89.8	88.7	86.7	83.7	80.7	77.7	74.7	149.0
107.5°	95.7	94.7	93.6	92.5	91.4	92.4	95.4	98.5	101.5	104.6	193.6
110°	96.8	95.7	94.5	93.5	92.4	105.5	132.7	159.9	187.1	214.3	292.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	97.7	96.9	96.0	95.1	94.2	143.4	242.7	342.0	441.3	540.5	559.9
115°	100.4	120.0	139.6	159.2	178.7	251.6	377.5	503.6	629.6	755.5	748.7
117.5°	410.0	474.3	538.7	603.1	667.5	715.0	745.5	775.9	806.4	836.9	832.2
120°	747.0	783.7	820.4	857.2	893.9	910.7	907.4	904.1	900.9	897.6	892.7
122.5°	932.1	939.3	946.4	953.5	960.6	963.2	961.3	959.3	957.3	955.4	950.0
125°	1047.0	1046.2	1045.3	1044.6	1043.7	1042.3	1040.4	1038.5	1036.6	1034.7	1029.6
127.5°	1119.5	1119.3	1119.1	1119.0	1118.9	1117.3	1114.6	1111.8	1109.1	1106.3	1102.4
130°	1164.5	1164.8	1165.1	1165.4	1165.6	1164.2	1161.3	1158.3	1155.3	1152.3	1149.3
132.5°	1208.6	1208.9	1209.2	1209.4	1209.7	1208.6	1206.0	1203.4	1200.9	1198.3	1195.3
135°	1272.3	1272.8	1273.4	1273.9	1274.5	1273.4	1270.7	1267.9	1265.2	1262.5	1260.1
137.5°	1330.3	1331.3	1332.2	1333.1	1334.0	1333.2	1330.5	1327.8	1325.2	1322.5	1319.7
140°	1366.6	1368.0	1369.3	1370.7	1372.0	1371.5	1369.1	1366.6	1364.2	1361.7	1358.7
142.5°	1401.9	1403.3	1404.5	1405.9	1407.3	1406.9	1404.6	1402.4	1400.2	1397.9	1394.5
145°	1451.1	1452.4	1453.8	1455.2	1456.6	1456.3	1454.3	1452.4	1450.5	1448.6	1444.0
147.5°	1494.4	1495.6	1496.8	1497.9	1499.0	1498.9	1497.5	1496.1	1494.6	1493.2	1488.7
150°	1520.9	1522.2	1523.6	1525.0	1526.3	1526.2	1524.6	1522.9	1521.3	1519.7	1515.3
152.5°	1543.4	1545.2	1547.0	1548.8	1550.6	1550.7	1549.0	1547.4	1545.8	1544.1	1540.0
155°	1574.8	1576.9	1579.2	1581.3	1583.5	1583.7	1582.1	1580.5	1578.8	1577.2	1574.0
157.5°	1603.4	1605.5	1607.7	1609.8	1611.9	1612.1	1610.2	1608.3	1606.5	1604.6	1602.3
160°	1620.1	1622.0	1623.8	1625.8	1627.7	1627.8	1626.2	1624.5	1622.9	1621.3	1619.6
162.5°	1633.8	1636.2	1638.5	1640.8	1643.1	1643.4	1641.6	1639.7	1637.9	1636.0	1634.6
165°	1654.3	1656.3	1658.2	1660.1	1662.0	1662.0	1660.1	1658.2	1656.3	1654.3	1653.6
167.5°	1667.3	1669.8	1672.2	1674.7	1677.1	1677.4	1675.5	1673.6	1671.7	1669.8	1669.0
170°	1675.2	1677.7	1680.1	1682.6	1685.0	1685.2	1683.3	1681.4	1679.6	1677.7	1677.1
172.5°	1681.0	1683.5	1685.9	1688.4	1690.8	1691.1	1689.2	1687.3	1685.4	1683.5	1683.0
175°	1686.2	1688.9	1691.6	1694.4	1697.1	1697.5	1695.6	1693.7	1691.8	1689.9	1689.4
177.5°	1689.4	1691.3	1693.3	1695.2	1697.2	1697.5	1695.9	1694.4	1692.9	1691.3	1691.1
180°	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	576.4	575.1	573.9	571.2	569.7	566.6	566.2	566.0	562.0	558.0	556.9
5°	596.2	593.0	588.3	582.8	577.1	571.3	567.4	564.2	556.4	549.0	544.7
7.5°	616.0	609.3	601.2	590.9	582.2	572.6	565.3	558.9	547.8	537.1	529.9
10°	630.9	620.0	609.2	595.0	583.8	572.8	562.7	553.9	541.4	527.3	517.3
12.5°	640.2	628.1	613.3	599.3	584.9	570.9	557.3	546.0	531.3	516.8	505.0
15°	652.6	639.7	621.7	601.8	583.2	565.0	549.4	535.3	516.2	498.7	484.2
17.5°	662.9	645.1	625.8	602.7	581.2	558.1	538.0	520.0	498.6	477.6	460.5
20°	666.2	648.5	626.2	603.1	577.7	550.5	528.8	509.3	486.4	463.5	443.9
22.5°	664.1	650.4	625.6	598.0	572.0	543.5	519.0	496.3	470.9	447.5	424.9
25°	650.3	645.6	622.2	592.0	562.3	529.3	500.8	476.0	447.1	422.1	397.4
27.5°	618.1	628.3	613.7	581.6	548.5	513.2	481.2	453.0	422.9	394.8	370.2
30°	587.1	610.4	604.2	574.4	537.4	502.7	466.8	437.3	405.3	376.3	352.1
32.5°	544.8	583.2	589.3	564.4	526.2	487.9	450.4	421.0	387.5	357.1	333.4
35°	477.2	534.7	561.1	545.3	507.0	465.6	427.0	392.7	359.0	329.0	305.5
37.5°	396.7	475.0	519.0	520.1	484.9	442.0	399.8	365.8	331.4	301.9	276.5
40°	344.4	429.3	486.6	499.3	469.6	423.3	380.6	345.9	312.4	283.4	254.3
42.5°	297.5	382.0	452.5	474.6	451.0	404.9	362.1	326.0	293.3	265.9	236.1
45°	240.6	314.5	392.1	431.6	418.5	375.9	330.7	296.3	265.6	241.9	213.4
47.5°	202.9	255.0	330.2	383.6	383.4	344.5	300.0	267.1	238.6	216.4	193.3
50°	181.5	226.9	290.4	351.0	356.1	323.5	281.2	248.6	222.0	198.7	180.1
52.5°	162.2	199.7	256.8	315.0	329.4	301.1	260.1	230.0	204.1	182.7	166.9
55°	137.1	166.1	209.5	263.8	285.8	265.8	229.4	201.2	180.3	162.3	148.6
57.5°	116.0	137.7	172.5	216.3	241.8	229.3	199.2	176.3	158.4	142.2	131.4
60°	102.7	120.5	150.0	186.6	214.7	206.0	180.3	159.0	143.8	129.7	119.5
62.5°	90.1	105.5	130.8	160.5	186.2	182.6	161.7	143.8	130.4	117.6	109.0
65°	72.6	83.7	103.5	126.7	147.5	149.2	134.1	122.0	110.1	100.0	92.3
67.5°	57.8	65.1	79.0	98.6	114.1	119.7	110.5	101.2	91.7	83.9	77.2
70°	48.7	54.6	64.7	80.6	94.9	100.7	95.4	88.2	80.0	73.5	67.8
72.5°	39.4	45.2	52.7	64.3	76.5	82.9	81.0	75.9	69.2	63.8	58.5
75°	29.7	31.5	36.6	44.4	54.0	59.5	60.8	58.1	52.8	48.7	45.5
77.5°	22.0	23.1	25.5	29.5	35.8	40.7	42.7	42.4	38.7	36.4	33.4
80°	17.6	18.2	19.4	21.1	25.8	30.7	32.1	32.1	29.5	28.6	25.7
82.5°	13.3	13.8	14.6	15.5	17.7	22.0	23.5	23.8	22.2	20.9	18.6
85°	7.7	7.4	7.8	8.4	8.8	10.0	12.3	12.7	12.3	10.8	10.2
87.5°	6.7	6.4	5.9	5.3	4.8	4.4	4.6	4.8	4.7	4.9	5.2
90°	20.1	18.0	15.8	13.2	10.2	7.2	4.2	1.2	4.2	7.2	10.2
92.5°	26.3	25.1	24.0	23.7	23.9	24.2	24.5	24.7	24.5	24.2	23.9
95°	43.9	42.0	40.1	43.7	52.7	61.6	70.6	79.6	70.6	61.6	52.7
97.5°	55.1	50.7	46.3	56.7	82.1	107.4	132.7	158.0	132.7	107.4	82.1
100°	60.5	55.9	51.3	67.6	104.9	142.2	179.4	216.7	179.4	142.2	104.9
102.5°	149.1	187.9	226.5	249.9	257.7	265.6	273.5	281.4	273.5	265.6	257.7
105°	223.3	297.6	371.9	404.9	396.7	388.6	380.4	372.3	380.4	388.6	396.7
107.5°	282.8	371.9	461.0	502.2	495.6	489.0	482.4	475.9	482.4	489.0	495.6
110°	371.6	450.2	528.8	565.3	559.6	553.9	548.2	542.5	548.2	553.9	559.6





TEST NUMBER: P331781-935

CATALOG NUMBER: S122RDIW-S290D1440U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	579.4	598.8	618.2	625.4	620.4	615.3	610.2	605.2	610.2	615.3	620.4
115°	741.9	735.1	728.3	722.6	718.0	713.3	708.8	704.1	708.8	713.3	718.0
117.5°	827.5	822.8	818.1	813.2	808.0	802.9	797.7	792.6	797.7	802.9	808.0
120°	887.8	882.9	878.0	873.5	869.4	865.3	861.3	857.2	861.3	865.3	869.4
122.5°	944.7	939.4	934.1	929.3	925.0	920.7	916.4	912.1	916.4	920.7	925.0
125°	1024.4	1019.3	1014.1	1009.7	1006.2	1002.6	999.1	995.6	999.1	1002.6	1006.2
127.5°	1098.5	1094.7	1090.8	1086.9	1083.0	1079.1	1075.1	1071.3	1075.1	1079.1	1083.0
130°	1146.3	1143.3	1140.3	1136.7	1132.3	1127.9	1123.6	1119.2	1123.6	1127.9	1132.3
132.5°	1192.3	1189.4	1186.4	1183.0	1179.3	1175.6	1171.9	1168.2	1171.9	1175.6	1179.3
135°	1257.6	1255.2	1252.7	1249.3	1244.9	1240.6	1236.2	1231.9	1236.2	1240.6	1244.9
137.5°	1317.0	1314.1	1311.4	1308.5	1305.4	1302.4	1299.3	1296.3	1299.3	1302.4	1305.4
140°	1355.7	1352.7	1349.7	1347.1	1345.0	1342.8	1340.6	1338.4	1340.6	1342.8	1345.0
142.5°	1391.1	1387.7	1384.2	1381.6	1379.6	1377.6	1375.6	1373.7	1375.6	1377.6	1379.6
145°	1439.4	1434.8	1430.1	1428.0	1428.2	1428.5	1428.7	1429.1	1428.7	1428.5	1428.2
147.5°	1484.1	1479.5	1474.9	1473.2	1474.2	1475.2	1476.3	1477.3	1476.3	1475.2	1474.2
150°	1511.0	1506.6	1502.3	1501.0	1503.0	1504.9	1506.8	1508.6	1506.8	1504.9	1503.0
152.5°	1535.9	1531.7	1527.6	1526.6	1528.7	1530.9	1533.0	1535.1	1533.0	1530.9	1528.7
155°	1570.7	1567.5	1564.2	1563.7	1566.2	1568.7	1571.1	1573.6	1571.1	1568.7	1566.2
157.5°	1600.1	1597.8	1595.5	1595.4	1597.5	1599.6	1601.6	1603.7	1601.6	1599.6	1597.5
160°	1618.1	1616.4	1614.8	1614.8	1616.4	1618.1	1619.6	1621.3	1619.6	1618.1	1616.4
162.5°	1633.1	1631.8	1630.3	1630.5	1632.1	1633.7	1635.4	1636.9	1635.4	1633.7	1632.1
165°	1652.7	1651.9	1651.1	1651.5	1653.1	1654.8	1656.4	1658.0	1656.4	1654.8	1653.1
167.5°	1668.3	1667.5	1666.7	1667.2	1668.8	1670.4	1672.1	1673.7	1672.1	1670.4	1668.8
170°	1676.5	1676.0	1675.4	1676.0	1677.7	1679.3	1680.9	1682.6	1680.9	1679.3	1677.7
172.5°	1682.4	1681.9	1681.4	1681.9	1683.5	1685.1	1686.8	1688.4	1686.8	1685.1	1683.5
175°	1688.8	1688.2	1687.7	1688.4	1690.3	1692.2	1694.1	1696.0	1694.1	1692.2	1690.3
177.5°	1690.9	1690.7	1690.5	1691.1	1692.6	1694.2	1695.7	1697.2	1695.7	1694.2	1692.6
180°	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3



TEST NUMBER: P331781-935

CATALOG NUMBER: S122RDIW-S290D1440U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	554.9	553.8	551.7	548.6	546.7	543.5	541.3	542.5	542.9	542.5	542.3
5°	540.0	535.9	530.2	524.7	519.6	514.2	511.0	509.7	507.0	505.4	504.5
7.5°	521.9	514.9	506.9	497.3	489.2	480.7	476.4	474.2	468.6	465.6	463.0
10°	508.5	497.3	489.3	476.8	469.2	458.1	450.4	450.6	443.0	438.7	435.6
12.5°	493.6	481.4	468.0	456.8	446.2	437.2	428.0	424.3	416.2	412.1	403.6
15°	469.0	454.7	440.7	425.4	414.7	400.7	387.4	371.2	358.1	346.7	343.6
17.5°	442.1	424.4	410.3	392.4	373.9	350.6	335.2	325.7	317.9	311.9	307.4
20°	423.6	405.6	390.5	363.6	338.7	322.9	311.6	304.3	296.1	289.6	286.1
22.5°	404.2	385.5	364.9	334.8	315.4	302.7	292.7	284.3	278.7	273.7	270.4
25°	376.7	356.1	322.3	301.6	285.9	272.6	265.6	260.5	254.7	247.8	244.7
27.5°	347.6	315.0	290.6	275.2	260.3	251.7	245.3	237.7	232.5	229.4	226.1
30°	325.8	293.2	274.2	257.4	246.8	237.2	229.8	225.5	220.4	215.2	213.0
32.5°	301.6	275.5	257.3	243.3	232.6	224.4	218.5	211.5	207.9	204.7	200.2
35°	271.5	251.7	235.1	223.8	213.5	206.9	200.1	196.0	189.3	186.6	184.9
37.5°	246.0	228.9	216.5	204.5	196.4	189.1	184.9	178.3	175.5	171.6	167.9
40°	231.5	214.7	202.9	193.0	184.0	178.6	173.3	168.0	163.7	162.0	157.5
42.5°	216.9	203.2	191.2	180.6	174.5	168.7	162.0	158.2	153.7	150.8	148.1
45°	196.6	184.4	174.3	165.5	158.8	152.7	148.4	142.0	139.5	133.8	131.4
47.5°	178.7	167.5	157.7	149.4	142.9	139.0	132.7	127.6	123.6	120.0	117.0
50°	166.1	156.6	147.2	139.8	134.0	128.3	121.8	119.3	113.0	111.2	109.5
52.5°	154.5	145.5	137.0	129.7	123.8	118.3	112.6	109.3	105.0	103.3	102.0
55°	138.3	129.7	121.5	115.0	109.2	103.5	100.0	95.8	93.8	92.5	90.9
57.5°	122.0	114.3	108.0	101.4	95.5	91.0	87.0	84.5	82.5	80.7	78.8
60°	111.7	104.3	98.6	92.5	86.4	82.7	79.6	76.6	74.3	71.5	70.8
62.5°	100.7	94.2	89.0	83.1	77.8	74.5	71.5	68.7	65.9	61.9	60.8
65°	85.7	80.6	75.1	70.2	65.5	62.2	57.9	54.8	53.6	53.2	53.0
67.5°	72.1	67.2	62.5	57.5	53.3	50.2	48.0	47.5	46.7	46.5	45.9
70°	62.9	58.5	53.8	49.1	44.9	44.4	43.7	42.8	41.8	41.5	41.1
72.5°	54.8	50.2	45.5	41.8	40.0	39.3	38.5	37.6	37.0	36.6	36.4
75°	42.0	37.7	34.6	33.2	32.3	31.7	30.5	30.0	29.5	28.9	28.8
77.5°	30.3	27.8	26.4	25.6	24.5	23.9	23.2	22.6	22.2	22.1	21.8
80°	23.1	21.9	20.9	19.7	19.4	18.6	18.4	17.8	18.0	17.4	17.4
82.5°	17.9	16.4	15.6	15.1	14.6	14.0	13.9	13.6	13.6	13.2	13.2
85°	9.2	8.8	8.4	8.0	8.0	7.4	7.7	7.4	7.4	7.1	6.9
87.5°	5.6	5.9	6.1	6.5	7.0	7.2	7.5	7.7	7.9	8.2	8.2
90°	13.2	15.8	18.0	20.1	22.3	24.5	25.8	27.2	28.6	30.0	30.9
92.5°	23.7	24.0	25.1	26.3	27.3	28.4	29.1	29.8	30.6	31.3	31.8
95°	43.7	40.1	42.0	43.9	45.9	47.8	49.1	50.5	51.8	53.2	53.7
97.5°	56.7	46.3	50.7	55.1	59.5	63.9	65.0	66.1	67.2	68.3	69.0
100°	67.6	51.3	55.9	60.5	65.2	69.8	72.0	74.1	76.4	78.5	79.9
102.5°	249.9	226.5	187.9	149.1	110.5	71.7	74.6	77.4	80.2	83.1	84.9
105°	404.9	371.9	297.6	223.3	149.0	74.7	77.7	80.7	83.7	86.7	88.7
107.5°	502.2	461.0	371.9	282.8	193.6	104.6	101.5	98.5	95.4	92.4	91.4
110°	565.3	528.8	450.2	371.6	292.9	214.3	187.1	159.9	132.7	105.5	92.4



TEST NUMBER: P331781-935

CATALOG NUMBER: S122RDIW-S290D1440U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	625.4	618.2	598.8	579.4	559.9	540.5	441.3	342.0	242.7	143.4	94.2
115°	722.6	728.3	735.1	741.9	748.7	755.5	629.6	503.6	377.5	251.6	178.7
117.5°	813.2	818.1	822.8	827.5	832.2	836.9	806.4	775.9	745.5	715.0	667.5
120°	873.5	878.0	882.9	887.8	892.7	897.6	900.9	904.1	907.4	910.7	893.9
122.5°	929.3	934.1	939.4	944.7	950.0	955.4	957.3	959.3	961.3	963.2	960.6
125°	1009.7	1014.1	1019.3	1024.4	1029.6	1034.7	1036.6	1038.5	1040.4	1042.3	1043.7
127.5°	1086.9	1090.8	1094.7	1098.5	1102.4	1106.3	1109.1	1111.8	1114.6	1117.3	1118.9
130°	1136.7	1140.3	1143.3	1146.3	1149.3	1152.3	1155.3	1158.3	1161.3	1164.2	1165.6
132.5°	1183.0	1186.4	1189.4	1192.3	1195.3	1198.3	1200.9	1203.4	1206.0	1208.6	1209.7
135°	1249.3	1252.7	1255.2	1257.6	1260.1	1262.5	1265.2	1267.9	1270.7	1273.4	1274.5
137.5°	1308.5	1311.4	1314.1	1317.0	1319.7	1322.5	1325.2	1327.8	1330.5	1333.2	1334.0
140°	1347.1	1349.7	1352.7	1355.7	1358.7	1361.7	1364.2	1366.6	1369.1	1371.5	1372.0
142.5°	1381.6	1384.2	1387.7	1391.1	1394.5	1397.9	1400.2	1402.4	1404.6	1406.9	1407.3
145°	1428.0	1430.1	1434.8	1439.4	1444.0	1448.6	1450.5	1452.4	1454.3	1456.3	1456.6
147.5°	1473.2	1474.9	1479.5	1484.1	1488.7	1493.2	1494.6	1496.1	1497.5	1498.9	1499.0
150°	1501.0	1502.3	1506.6	1511.0	1515.3	1519.7	1521.3	1522.9	1524.6	1526.2	1526.3
152.5°	1526.6	1527.6	1531.7	1535.9	1540.0	1544.1	1545.8	1547.4	1549.0	1550.7	1550.6
155°	1563.7	1564.2	1567.5	1570.7	1574.0	1577.2	1578.8	1580.5	1582.1	1583.7	1583.5
157.5°	1595.4	1595.5	1597.8	1600.1	1602.3	1604.6	1606.5	1608.3	1610.2	1612.1	1611.9
160°	1614.8	1614.8	1616.4	1618.1	1619.6	1621.3	1622.9	1624.5	1626.2	1627.8	1627.7
162.5°	1630.5	1630.3	1631.8	1633.1	1634.6	1636.0	1637.9	1639.7	1641.6	1643.4	1643.1
165°	1651.5	1651.1	1651.9	1652.7	1653.6	1654.3	1656.3	1658.2	1660.1	1662.0	1662.0
167.5°	1667.2	1666.7	1667.5	1668.3	1669.0	1669.8	1671.7	1673.6	1675.5	1677.4	1677.1
170°	1676.0	1675.4	1676.0	1676.5	1677.1	1677.7	1679.6	1681.4	1683.3	1685.2	1685.0
172.5°	1681.9	1681.4	1681.9	1682.4	1683.0	1683.5	1685.4	1687.3	1689.2	1691.1	1690.8
175°	1688.4	1687.7	1688.2	1688.8	1689.4	1689.9	1691.8	1693.7	1695.6	1697.5	1697.1
177.5°	1691.1	1690.5	1690.7	1690.9	1691.1	1691.3	1692.9	1694.4	1695.9	1697.5	1697.2
180°	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3



TEST NUMBER: P331781-935

CATALOG NUMBER: S122RDIW-S290D1440U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	540.5	540.8	540.4	540.6	540.4	540.8	540.5	542.3	542.5	542.9	542.5
5°	503.6	501.3	500.8	500.3	500.8	501.3	503.6	504.5	505.4	507.0	509.7
7.5°	459.6	459.3	458.2	456.8	458.2	459.3	459.6	463.0	465.6	468.6	474.2
10°	431.3	430.2	430.1	428.7	430.1	430.2	431.3	435.6	438.7	443.0	450.6
12.5°	398.0	391.8	391.2	387.7	391.2	391.8	398.0	403.6	412.1	416.2	424.3
15°	339.0	337.8	333.8	331.3	333.8	337.8	339.0	343.6	346.7	358.1	371.2
17.5°	305.1	301.3	300.1	299.5	300.1	301.3	305.1	307.4	311.9	317.9	325.7
20°	283.4	279.9	279.3	278.9	279.3	279.9	283.4	286.1	289.6	296.1	304.3
22.5°	268.4	264.7	263.2	262.0	263.2	264.7	268.4	270.4	273.7	278.7	284.3
25°	242.7	241.3	240.6	240.1	240.6	241.3	242.7	244.7	247.8	254.7	260.5
27.5°	222.7	219.6	219.0	218.0	219.0	219.6	222.7	226.1	229.4	232.5	237.7
30°	211.2	210.3	208.9	207.7	208.9	210.3	211.2	213.0	215.2	220.4	225.5
32.5°	197.8	196.9	195.7	195.2	195.7	196.9	197.8	200.2	204.7	207.9	211.5
35°	182.9	180.1	178.9	177.2	178.9	180.1	182.9	184.9	186.6	189.3	196.0
37.5°	167.1	165.7	164.0	164.6	164.0	165.7	167.1	167.9	171.6	175.5	178.3
40°	154.9	153.9	153.5	153.3	153.5	153.9	154.9	157.5	162.0	163.7	168.0
42.5°	145.2	142.5	141.5	141.5	141.5	142.5	145.2	148.1	150.8	153.7	158.2
45°	130.4	127.9	126.1	126.3	126.1	127.9	130.4	131.4	133.8	139.5	142.0
47.5°	115.4	115.3	114.2	114.5	114.2	115.3	115.4	117.0	120.0	123.6	127.6
50°	108.1	107.0	106.2	106.4	106.2	107.0	108.1	109.5	111.2	113.0	119.3
52.5°	101.3	100.2	99.6	100.5	99.6	100.2	101.3	102.0	103.3	105.0	109.3
55°	90.0	88.8	88.6	88.4	88.6	88.8	90.0	90.9	92.5	93.8	95.8
57.5°	77.3	76.5	75.3	74.9	75.3	76.5	77.3	78.8	80.7	82.5	84.5
60°	68.3	66.7	64.7	64.6	64.7	66.7	68.3	70.8	71.5	74.3	76.6
62.5°	59.9	59.7	59.2	59.2	59.2	59.7	59.9	60.8	61.9	65.9	68.7
65°	52.6	52.4	52.6	52.8	52.6	52.4	52.6	53.0	53.2	53.6	54.8
67.5°	45.8	45.5	45.1	45.3	45.1	45.5	45.8	45.9	46.5	46.7	47.5
70°	40.6	40.5	40.3	40.3	40.3	40.5	40.6	41.1	41.5	41.8	42.8
72.5°	35.6	35.6	35.5	35.3	35.5	35.6	35.6	36.4	36.6	37.0	37.6
75°	28.6	28.2	28.2	28.2	28.2	28.2	28.6	28.8	28.9	29.5	30.0
77.5°	21.8	21.5	21.4	21.2	21.4	21.5	21.8	21.8	22.1	22.2	22.6
80°	17.2	17.0	16.8	16.8	16.8	17.0	17.2	17.4	17.4	18.0	17.8
82.5°	13.2	12.9	12.9	12.7	12.9	12.9	13.2	13.2	13.2	13.6	13.6
85°	7.1	7.2	7.1	7.4	7.1	7.2	7.1	6.9	7.1	7.4	7.4
87.5°	8.4	8.3	8.5	8.5	8.5	8.3	8.4	8.2	8.2	7.9	7.7
90°	31.4	31.9	32.5	33.1	32.5	31.9	31.4	30.9	30.0	28.6	27.2
92.5°	32.1	32.4	32.7	33.1	32.7	32.4	32.1	31.8	31.3	30.6	29.8
95°	53.5	53.2	53.0	52.7	53.0	53.2	53.5	53.7	53.2	51.8	50.5
97.5°	69.3	69.7	70.0	70.3	70.0	69.7	69.3	69.0	68.3	67.2	66.1
100°	80.4	80.9	81.5	82.1	81.5	80.9	80.4	79.9	78.5	76.4	74.1
102.5°	85.7	86.4	87.1	87.9	87.1	86.4	85.7	84.9	83.1	80.2	77.4
105°	89.8	90.9	92.0	93.1	92.0	90.9	89.8	88.7	86.7	83.7	80.7
107.5°	92.5	93.6	94.7	95.7	94.7	93.6	92.5	91.4	92.4	95.4	98.5
110°	93.5	94.5	95.7	96.8	95.7	94.5	93.5	92.4	105.5	132.7	159.9



TEST NUMBER: P331781-935

CATALOG NUMBER: S122RDIW-S290D1440U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	95.1	96.0	96.9	97.7	96.9	96.0	95.1	94.2	143.4	242.7	342.0
115°	159.2	139.6	120.0	100.4	120.0	139.6	159.2	178.7	251.6	377.5	503.6
117.5°	603.1	538.7	474.3	410.0	474.3	538.7	603.1	667.5	715.0	745.5	775.9
120°	857.2	820.4	783.7	747.0	783.7	820.4	857.2	893.9	910.7	907.4	904.1
122.5°	953.5	946.4	939.3	932.1	939.3	946.4	953.5	960.6	963.2	961.3	959.3
125°	1044.6	1045.3	1046.2	1047.0	1046.2	1045.3	1044.6	1043.7	1042.3	1040.4	1038.5
127.5°	1119.0	1119.1	1119.3	1119.5	1119.3	1119.1	1119.0	1118.9	1117.3	1114.6	1111.8
130°	1165.4	1165.1	1164.8	1164.5	1164.8	1165.1	1165.4	1165.6	1164.2	1161.3	1158.3
132.5°	1209.4	1209.2	1208.9	1208.6	1208.9	1209.2	1209.4	1209.7	1208.6	1206.0	1203.4
135°	1273.9	1273.4	1272.8	1272.3	1272.8	1273.4	1273.9	1274.5	1273.4	1270.7	1267.9
137.5°	1333.1	1332.2	1331.3	1330.3	1331.3	1332.2	1333.1	1334.0	1333.2	1330.5	1327.8
140°	1370.7	1369.3	1368.0	1366.6	1368.0	1369.3	1370.7	1372.0	1371.5	1369.1	1366.6
142.5°	1405.9	1404.5	1403.3	1401.9	1403.3	1404.5	1405.9	1407.3	1406.9	1404.6	1402.4
145°	1455.2	1453.8	1452.4	1451.1	1452.4	1453.8	1455.2	1456.6	1456.3	1454.3	1452.4
147.5°	1497.9	1496.8	1495.6	1494.4	1495.6	1496.8	1497.9	1499.0	1498.9	1497.5	1496.1
150°	1525.0	1523.6	1522.2	1520.9	1522.2	1523.6	1525.0	1526.3	1526.2	1524.6	1522.9
152.5°	1548.8	1547.0	1545.2	1543.4	1545.2	1547.0	1548.8	1550.6	1550.7	1549.0	1547.4
155°	1581.3	1579.2	1576.9	1574.8	1576.9	1579.2	1581.3	1583.5	1583.7	1582.1	1580.5
157.5°	1609.8	1607.7	1605.5	1603.4	1605.5	1607.7	1609.8	1611.9	1612.1	1610.2	1608.3
160°	1625.8	1623.8	1622.0	1620.1	1622.0	1623.8	1625.8	1627.7	1627.8	1626.2	1624.5
162.5°	1640.8	1638.5	1636.2	1633.8	1636.2	1638.5	1640.8	1643.1	1643.4	1641.6	1639.7
165°	1660.1	1658.2	1656.3	1654.3	1656.3	1658.2	1660.1	1662.0	1662.0	1660.1	1658.2
167.5°	1674.7	1672.2	1669.8	1667.3	1669.8	1672.2	1674.7	1677.1	1677.4	1675.5	1673.6
170°	1682.6	1680.1	1677.7	1675.2	1677.7	1680.1	1682.6	1685.0	1685.2	1683.3	1681.4
172.5°	1688.4	1685.9	1683.5	1681.0	1683.5	1685.9	1688.4	1690.8	1691.1	1689.2	1687.3
175°	1694.4	1691.6	1688.9	1686.2	1688.9	1691.6	1694.4	1697.1	1697.5	1695.6	1693.7
177.5°	1695.2	1693.3	1691.3	1689.4	1691.3	1693.3	1695.2	1697.2	1697.5	1695.9	1694.4
180°	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3



TEST NUMBER: P331781-935

CATALOG NUMBER: S122RDIW-S290D1440U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	541.3	543.5	546.7	548.6	551.7	553.8	554.9	556.9	558.0	562.0	566.0
5°	511.0	514.2	519.6	524.7	530.2	535.9	540.0	544.7	549.0	556.4	564.2
7.5°	476.4	480.7	489.2	497.3	506.9	514.9	521.9	529.9	537.1	547.8	558.9
10°	450.4	458.1	469.2	476.8	489.3	497.3	508.5	517.3	527.3	541.4	553.9
12.5°	428.0	437.2	446.2	456.8	468.0	481.4	493.6	505.0	516.8	531.3	546.0
15°	387.4	400.7	414.7	425.4	440.7	454.7	469.0	484.2	498.7	516.2	535.3
17.5°	335.2	350.6	373.9	392.4	410.3	424.4	442.1	460.5	477.6	498.6	520.0
20°	311.6	322.9	338.7	363.6	390.5	405.6	423.6	443.9	463.5	486.4	509.3
22.5°	292.7	302.7	315.4	334.8	364.9	385.5	404.2	424.9	447.5	470.9	496.3
25°	265.6	272.6	285.9	301.6	322.3	356.1	376.7	397.4	422.1	447.1	476.0
27.5°	245.3	251.7	260.3	275.2	290.6	315.0	347.6	370.2	394.8	422.9	453.0
30°	229.8	237.2	246.8	257.4	274.2	293.2	325.8	352.1	376.3	405.3	437.3
32.5°	218.5	224.4	232.6	243.3	257.3	275.5	301.6	333.4	357.1	387.5	421.0
35°	200.1	206.9	213.5	223.8	235.1	251.7	271.5	305.5	329.0	359.0	392.7
37.5°	184.9	189.1	196.4	204.5	216.5	228.9	246.0	276.5	301.9	331.4	365.8
40°	173.3	178.6	184.0	193.0	202.9	214.7	231.5	254.3	283.4	312.4	345.9
42.5°	162.0	168.7	174.5	180.6	191.2	203.2	216.9	236.1	265.9	293.3	326.0
45°	148.4	152.7	158.8	165.5	174.3	184.4	196.6	213.4	241.9	265.6	296.3
47.5°	132.7	139.0	142.9	149.4	157.7	167.5	178.7	193.3	216.4	238.6	267.1
50°	121.8	128.3	134.0	139.8	147.2	156.6	166.1	180.1	198.7	222.0	248.6
52.5°	112.6	118.3	123.8	129.7	137.0	145.5	154.5	166.9	182.7	204.1	230.0
55°	100.0	103.5	109.2	115.0	121.5	129.7	138.3	148.6	162.3	180.3	201.2
57.5°	87.0	91.0	95.5	101.4	108.0	114.3	122.0	131.4	142.2	158.4	176.3
60°	79.6	82.7	86.4	92.5	98.6	104.3	111.7	119.5	129.7	143.8	159.0
62.5°	71.5	74.5	77.8	83.1	89.0	94.2	100.7	109.0	117.6	130.4	143.8
65°	57.9	62.2	65.5	70.2	75.1	80.6	85.7	92.3	100.0	110.1	122.0
67.5°	48.0	50.2	53.3	57.5	62.5	67.2	72.1	77.2	83.9	91.7	101.2
70°	43.7	44.4	44.9	49.1	53.8	58.5	62.9	67.8	73.5	80.0	88.2
72.5°	38.5	39.3	40.0	41.8	45.5	50.2	54.8	58.5	63.8	69.2	75.9
75°	30.5	31.7	32.3	33.2	34.6	37.7	42.0	45.5	48.7	52.8	58.1
77.5°	23.2	23.9	24.5	25.6	26.4	27.8	30.3	33.4	36.4	38.7	42.4
80°	18.4	18.6	19.4	19.7	20.9	21.9	23.1	25.7	28.6	29.5	32.1
82.5°	13.9	14.0	14.6	15.1	15.6	16.4	17.9	18.6	20.9	22.2	23.8
85°	7.7	7.4	8.0	8.0	8.4	8.8	9.2	10.2	10.8	12.3	12.7
87.5°	7.5	7.2	7.0	6.5	6.1	5.9	5.6	5.2	4.9	4.7	4.8
90°	25.8	24.5	22.3	20.1	18.0	15.8	13.2	10.2	7.2	4.2	1.2
92.5°	29.1	28.4	27.3	26.3	25.1	24.0	23.7	23.9	24.2	24.5	24.7
95°	49.1	47.8	45.9	43.9	42.0	40.1	43.7	52.7	61.6	70.6	79.6
97.5°	65.0	63.9	59.5	55.1	50.7	46.3	56.7	82.1	107.4	132.7	158.0
100°	72.0	69.8	65.2	60.5	55.9	51.3	67.6	104.9	142.2	179.4	216.7
102.5°	74.6	71.7	110.5	149.1	187.9	226.5	249.9	257.7	265.6	273.5	281.4
105°	77.7	74.7	149.0	223.3	297.6	371.9	404.9	396.7	388.6	380.4	372.3
107.5°	101.5	104.6	193.6	282.8	371.9	461.0	502.2	495.6	489.0	482.4	475.9
110°	187.1	214.3	292.9	371.6	450.2	528.8	565.3	559.6	553.9	548.2	542.5



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CATALOG NUMBER: S122RDIW-S290D1440U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	441.3	540.5	559.9	579.4	598.8	618.2	625.4	620.4	615.3	610.2	605.2
115°	629.6	755.5	748.7	741.9	735.1	728.3	722.6	718.0	713.3	708.8	704.1
117.5°	806.4	836.9	832.2	827.5	822.8	818.1	813.2	808.0	802.9	797.7	792.6
120°	900.9	897.6	892.7	887.8	882.9	878.0	873.5	869.4	865.3	861.3	857.2
122.5°	957.3	955.4	950.0	944.7	939.4	934.1	929.3	925.0	920.7	916.4	912.1
125°	1036.6	1034.7	1029.6	1024.4	1019.3	1014.1	1009.7	1006.2	1002.6	999.1	995.6
127.5°	1109.1	1106.3	1102.4	1098.5	1094.7	1090.8	1086.9	1083.0	1079.1	1075.1	1071.3
130°	1155.3	1152.3	1149.3	1146.3	1143.3	1140.3	1136.7	1132.3	1127.9	1123.6	1119.2
132.5°	1200.9	1198.3	1195.3	1192.3	1189.4	1186.4	1183.0	1179.3	1175.6	1171.9	1168.2
135°	1265.2	1262.5	1260.1	1257.6	1255.2	1252.7	1249.3	1244.9	1240.6	1236.2	1231.9
137.5°	1325.2	1322.5	1319.7	1317.0	1314.1	1311.4	1308.5	1305.4	1302.4	1299.3	1296.3
140°	1364.2	1361.7	1358.7	1355.7	1352.7	1349.7	1347.1	1345.0	1342.8	1340.6	1338.4
142.5°	1400.2	1397.9	1394.5	1391.1	1387.7	1384.2	1381.6	1379.6	1377.6	1375.6	1373.7
145°	1450.5	1448.6	1444.0	1439.4	1434.8	1430.1	1428.0	1428.2	1428.5	1428.7	1429.1
147.5°	1494.6	1493.2	1488.7	1484.1	1479.5	1474.9	1473.2	1474.2	1475.2	1476.3	1477.3
150°	1521.3	1519.7	1515.3	1511.0	1506.6	1502.3	1501.0	1503.0	1504.9	1506.8	1508.6
152.5°	1545.8	1544.1	1540.0	1535.9	1531.7	1527.6	1526.6	1528.7	1530.9	1533.0	1535.1
155°	1578.8	1577.2	1574.0	1570.7	1567.5	1564.2	1563.7	1566.2	1568.7	1571.1	1573.6
157.5°	1606.5	1604.6	1602.3	1600.1	1597.8	1595.5	1595.4	1597.5	1599.6	1601.6	1603.7
160°	1622.9	1621.3	1619.6	1618.1	1616.4	1614.8	1614.8	1616.4	1618.1	1619.6	1621.3
162.5°	1637.9	1636.0	1634.6	1633.1	1631.8	1630.3	1630.5	1632.1	1633.7	1635.4	1636.9
165°	1656.3	1654.3	1653.6	1652.7	1651.9	1651.1	1651.5	1653.1	1654.8	1656.4	1658.0
167.5°	1671.7	1669.8	1669.0	1668.3	1667.5	1666.7	1667.2	1668.8	1670.4	1672.1	1673.7
170°	1679.6	1677.7	1677.1	1676.5	1676.0	1675.4	1676.0	1677.7	1679.3	1680.9	1682.6
172.5°	1685.4	1683.5	1683.0	1682.4	1681.9	1681.4	1681.9	1683.5	1685.1	1686.8	1688.4
175°	1691.8	1689.9	1689.4	1688.8	1688.2	1687.7	1688.4	1690.3	1692.2	1694.1	1696.0
177.5°	1692.9	1691.3	1691.1	1690.9	1690.7	1690.5	1691.1	1692.6	1694.2	1695.7	1697.2
180°	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3



TEST NUMBER: P331781-935

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	566.2	566.6	569.7	571.2	573.9	575.1	576.4	576.0	576.0	576.6	581.0
5°	567.4	571.3	577.1	582.8	588.3	593.0	596.2	599.3	600.5	606.1	611.1
7.5°	565.3	572.6	582.2	590.9	601.2	609.3	616.0	622.2	626.3	634.6	643.0
10°	562.7	572.8	583.8	595.0	609.2	620.0	630.9	639.4	642.0	654.4	661.4
12.5°	557.3	570.9	584.9	599.3	613.3	628.1	640.2	648.6	658.2	669.3	682.3
15°	549.4	565.0	583.2	601.8	621.7	639.7	652.6	667.3	677.9	690.0	701.4
17.5°	538.0	558.1	581.2	602.7	625.8	645.1	662.9	676.9	684.3	691.3	692.9
20°	528.8	550.5	577.7	603.1	626.2	648.5	666.2	677.9	679.8	680.0	669.7
22.5°	519.0	543.5	572.0	598.0	625.6	650.4	664.1	669.1	661.3	648.1	628.0
25°	500.8	529.3	562.3	592.0	622.2	645.6	650.3	641.5	614.3	585.7	549.6
27.5°	481.2	513.2	548.5	581.6	613.7	628.3	618.1	586.3	537.4	494.8	443.2
30°	466.8	502.7	537.4	574.4	604.2	610.4	587.1	540.4	483.3	419.1	367.6
32.5°	450.4	487.9	526.2	564.4	589.3	583.2	544.8	487.2	420.3	357.1	308.6
35°	427.0	465.6	507.0	545.3	561.1	534.7	477.2	402.3	333.8	275.0	241.5
37.5°	399.8	442.0	484.9	520.1	519.0	475.0	396.7	319.3	261.8	227.0	203.2
40°	380.6	423.3	469.6	499.3	486.6	429.3	344.4	271.5	229.4	201.6	184.3
42.5°	362.1	404.9	451.0	474.6	452.5	382.0	297.5	240.3	205.6	184.0	169.9
45°	330.7	375.9	418.5	431.6	392.1	314.5	240.6	199.1	176.0	160.0	150.2
47.5°	300.0	344.5	383.4	383.6	330.2	255.0	202.9	172.3	152.6	140.2	133.1
50°	281.2	323.5	356.1	351.0	290.4	226.9	181.5	155.1	138.7	129.1	121.7
52.5°	260.1	301.1	329.4	315.0	256.8	199.7	162.2	140.1	126.5	118.1	111.5
55°	229.4	265.8	285.8	263.8	209.5	166.1	137.1	119.7	109.5	102.5	96.8
57.5°	199.2	229.3	241.8	216.3	172.5	137.7	116.0	102.9	92.8	87.7	84.8
60°	180.3	206.0	214.7	186.6	150.0	120.5	102.7	90.6	83.1	79.8	76.9
62.5°	161.7	182.6	186.2	160.5	130.8	105.5	90.1	79.9	75.0	71.8	69.1
65°	134.1	149.2	147.5	126.7	103.5	83.7	72.6	66.3	62.6	58.1	53.2
67.5°	110.5	119.7	114.1	98.6	79.0	65.1	57.8	53.0	48.4	44.2	43.0
70°	95.4	100.7	94.9	80.6	64.7	54.6	48.7	43.0	40.3	39.3	37.5
72.5°	81.0	82.9	76.5	64.3	52.7	45.2	39.4	36.3	34.8	34.0	32.9
75°	60.8	59.5	54.0	44.4	36.6	31.5	29.7	28.6	27.6	26.8	26.2
77.5°	42.7	40.7	35.8	29.5	25.5	23.1	22.0	21.4	20.9	20.5	19.9
80°	32.1	30.7	25.8	21.1	19.4	18.2	17.6	16.8	16.8	16.4	15.8
82.5°	23.5	22.0	17.7	15.5	14.6	13.8	13.3	12.9	12.7	12.8	12.4
85°	12.3	10.0	8.8	8.4	7.8	7.4	7.7	7.2	7.2	7.2	7.1
87.5°	4.6	4.4	4.8	5.3	5.9	6.4	6.7	7.1	7.7	7.8	8.3
90°	4.2	7.2	10.2	13.2	15.8	18.0	20.1	22.3	24.5	25.8	27.2
92.5°	24.5	24.2	23.9	23.7	24.0	25.1	26.3	27.3	28.4	29.1	29.8
95°	70.6	61.6	52.7	43.7	40.1	42.0	43.9	45.9	47.8	49.1	50.5
97.5°	132.7	107.4	82.1	56.7	46.3	50.7	55.1	59.5	63.9	65.0	66.1
100°	179.4	142.2	104.9	67.6	51.3	55.9	60.5	65.2	69.8	72.0	74.1
102.5°	273.5	265.6	257.7	249.9	226.5	187.9	149.1	110.5	71.7	74.6	77.4
105°	380.4	388.6	396.7	404.9	371.9	297.6	223.3	149.0	74.7	77.7	80.7
107.5°	482.4	489.0	495.6	502.2	461.0	371.9	282.8	193.6	104.6	101.5	98.5
110°	548.2	553.9	559.6	565.3	528.8	450.2	371.6	292.9	214.3	187.1	159.9





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	610.2	615.3	620.4	625.4	618.2	598.8	579.4	559.9	540.5	441.3	342.0
115°	708.8	713.3	718.0	722.6	728.3	735.1	741.9	748.7	755.5	629.6	503.6
117.5°	797.7	802.9	808.0	813.2	818.1	822.8	827.5	832.2	836.9	806.4	775.9
120°	861.3	865.3	869.4	873.5	878.0	882.9	887.8	892.7	897.6	900.9	904.1
122.5°	916.4	920.7	925.0	929.3	934.1	939.4	944.7	950.0	955.4	957.3	959.3
125°	999.1	1002.6	1006.2	1009.7	1014.1	1019.3	1024.4	1029.6	1034.7	1036.6	1038.5
127.5°	1075.1	1079.1	1083.0	1086.9	1090.8	1094.7	1098.5	1102.4	1106.3	1109.1	1111.8
130°	1123.6	1127.9	1132.3	1136.7	1140.3	1143.3	1146.3	1149.3	1152.3	1155.3	1158.3
132.5°	1171.9	1175.6	1179.3	1183.0	1186.4	1189.4	1192.3	1195.3	1198.3	1200.9	1203.4
135°	1236.2	1240.6	1244.9	1249.3	1252.7	1255.2	1257.6	1260.1	1262.5	1265.2	1267.9
137.5°	1299.3	1302.4	1305.4	1308.5	1311.4	1314.1	1317.0	1319.7	1322.5	1325.2	1327.8
140°	1340.6	1342.8	1345.0	1347.1	1349.7	1352.7	1355.7	1358.7	1361.7	1364.2	1366.6
142.5°	1375.6	1377.6	1379.6	1381.6	1384.2	1387.7	1391.1	1394.5	1397.9	1400.2	1402.4
145°	1428.7	1428.5	1428.2	1428.0	1430.1	1434.8	1439.4	1444.0	1448.6	1450.5	1452.4
147.5°	1476.3	1475.2	1474.2	1473.2	1474.9	1479.5	1484.1	1488.7	1493.2	1494.6	1496.1
150°	1506.8	1504.9	1503.0	1501.0	1502.3	1506.6	1511.0	1515.3	1519.7	1521.3	1522.9
152.5°	1533.0	1530.9	1528.7	1526.6	1527.6	1531.7	1535.9	1540.0	1544.1	1545.8	1547.4
155°	1571.1	1568.7	1566.2	1563.7	1564.2	1567.5	1570.7	1574.0	1577.2	1578.8	1580.5
157.5°	1601.6	1599.6	1597.5	1595.4	1595.5	1597.8	1600.1	1602.3	1604.6	1606.5	1608.3
160°	1619.6	1618.1	1616.4	1614.8	1614.8	1616.4	1618.1	1619.6	1621.3	1622.9	1624.5
162.5°	1635.4	1633.7	1632.1	1630.5	1630.3	1631.8	1633.1	1634.6	1636.0	1637.9	1639.7
165°	1656.4	1654.8	1653.1	1651.5	1651.1	1651.9	1652.7	1653.6	1654.3	1656.3	1658.2
167.5°	1672.1	1670.4	1668.8	1667.2	1666.7	1667.5	1668.3	1669.0	1669.8	1671.7	1673.6
170°	1680.9	1679.3	1677.7	1676.0	1675.4	1676.0	1676.5	1677.1	1677.7	1679.6	1681.4
172.5°	1686.8	1685.1	1683.5	1681.9	1681.4	1681.9	1682.4	1683.0	1683.5	1685.4	1687.3
175°	1694.1	1692.2	1690.3	1688.4	1687.7	1688.2	1688.8	1689.4	1689.9	1691.8	1693.7
177.5°	1695.7	1694.2	1692.6	1691.1	1690.5	1690.7	1690.9	1691.1	1691.3	1692.9	1694.4
180°	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	582.6	584.6	585.6	585.6	586.7	586.2	585.7
5°	616.0	619.7	620.6	624.1	626.6	625.9	626.2
7.5°	649.4	655.3	661.2	663.9	664.3	665.9	666.5
10°	669.9	674.8	683.9	682.6	689.4	693.4	686.9
12.5°	689.6	696.2	702.6	704.3	708.2	709.5	706.9
15°	707.4	710.9	711.3	710.3	711.5	710.5	706.8
17.5°	690.8	685.0	673.5	668.0	663.7	657.2	654.6
20°	663.2	646.4	626.8	619.0	609.8	591.9	596.2
22.5°	603.7	584.6	565.0	542.2	531.2	514.2	513.2
25°	511.3	478.2	441.8	416.4	401.5	384.5	377.0
27.5°	397.5	355.9	326.1	311.0	297.2	283.8	283.2
30°	322.7	291.4	268.4	255.5	247.0	241.3	242.5
32.5°	272.0	250.6	235.0	224.3	218.1	213.8	213.7
35°	222.4	207.7	197.7	193.2	188.7	185.6	185.8
37.5°	190.3	181.5	175.9	171.0	168.2	166.6	165.7
40°	173.8	166.6	162.3	159.4	157.0	154.9	154.5
42.5°	160.9	154.9	150.6	148.3	146.1	144.6	144.2
45°	142.8	137.8	134.0	131.4	130.4	129.1	129.1
47.5°	127.0	122.2	119.2	117.5	115.9	114.9	114.9
50°	116.4	112.6	109.9	108.9	107.5	107.0	106.8
52.5°	106.9	104.0	102.1	101.4	100.8	100.1	100.2
55°	93.8	92.3	91.5	90.9	90.0	88.8	89.5
57.5°	83.0	81.6	79.6	77.7	76.8	75.9	76.3
60°	75.3	72.6	69.8	67.7	67.1	65.3	65.3
62.5°	65.6	61.7	58.4	57.2	56.6	55.8	55.6
65°	50.5	48.9	48.1	47.4	46.9	46.9	46.6
67.5°	41.8	41.2	40.3	40.1	39.8	39.6	39.5
70°	36.9	36.2	35.8	35.6	35.2	35.4	34.8
72.5°	32.3	31.7	31.6	31.1	30.8	30.8	30.4
75°	25.4	25.4	25.2	25.1	24.6	24.5	24.6
77.5°	19.5	19.6	19.3	19.2	19.2	19.2	19.0
80°	15.7	15.8	15.7	15.4	15.2	15.4	15.2
82.5°	12.4	12.1	12.1	12.0	12.0	11.9	11.8
85°	7.1	7.2	7.1	6.9	6.9	6.9	7.1
87.5°	8.4	8.6	8.9	9.0	9.0	9.1	9.1
90°	28.6	30.0	30.9	31.4	31.9	32.5	33.1
92.5°	30.6	31.3	31.8	32.1	32.4	32.7	33.1
95°	51.8	53.2	53.7	53.5	53.2	53.0	52.7
97.5°	67.2	68.3	69.0	69.3	69.7	70.0	70.3
100°	76.4	78.5	79.9	80.4	80.9	81.5	82.1
102.5°	80.2	83.1	84.9	85.7	86.4	87.1	87.9
105°	83.7	86.7	88.7	89.8	90.9	92.0	93.1
107.5°	95.4	92.4	91.4	92.5	93.6	94.7	95.7
110°	132.7	105.5	92.4	93.5	94.5	95.7	96.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	242.7	143.4	94.2	95.1	96.0	96.9	97.7
115°	377.5	251.6	178.7	159.2	139.6	120.0	100.4
117.5°	745.5	715.0	667.5	603.1	538.7	474.3	410.0
120°	907.4	910.7	893.9	857.2	820.4	783.7	747.0
122.5°	961.3	963.2	960.6	953.5	946.4	939.3	932.1
125°	1040.4	1042.3	1043.7	1044.6	1045.3	1046.2	1047.0
127.5°	1114.6	1117.3	1118.9	1119.0	1119.1	1119.3	1119.5
130°	1161.3	1164.2	1165.6	1165.4	1165.1	1164.8	1164.5
132.5°	1206.0	1208.6	1209.7	1209.4	1209.2	1208.9	1208.6
135°	1270.7	1273.4	1274.5	1273.9	1273.4	1272.8	1272.3
137.5°	1330.5	1333.2	1334.0	1333.1	1332.2	1331.3	1330.3
140°	1369.1	1371.5	1372.0	1370.7	1369.3	1368.0	1366.6
142.5°	1404.6	1406.9	1407.3	1405.9	1404.5	1403.3	1401.9
145°	1454.3	1456.3	1456.6	1455.2	1453.8	1452.4	1451.1
147.5°	1497.5	1498.9	1499.0	1497.9	1496.8	1495.6	1494.4
150°	1524.6	1526.2	1526.3	1525.0	1523.6	1522.2	1520.9
152.5°	1549.0	1550.7	1550.6	1548.8	1547.0	1545.2	1543.4
155°	1582.1	1583.7	1583.5	1581.3	1579.2	1576.9	1574.8
157.5°	1610.2	1612.1	1611.9	1609.8	1607.7	1605.5	1603.4
160°	1626.2	1627.8	1627.7	1625.8	1623.8	1622.0	1620.1
162.5°	1641.6	1643.4	1643.1	1640.8	1638.5	1636.2	1633.8
165°	1660.1	1662.0	1662.0	1660.1	1658.2	1656.3	1654.3
167.5°	1675.5	1677.4	1677.1	1674.7	1672.2	1669.8	1667.3
170°	1683.3	1685.2	1685.0	1682.6	1680.1	1677.7	1675.2
172.5°	1689.2	1691.1	1690.8	1688.4	1685.9	1683.5	1681.0
175°	1695.6	1697.5	1697.1	1694.4	1691.6	1688.9	1686.2
177.5°	1695.9	1697.5	1697.2	1695.2	1693.3	1691.3	1689.4
180°	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3

(END OF REPORT)