

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: P331781-927

Luminaire Tested: **S122RDIW-S290D1440U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331781-927
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-S290D1440U927-4F0-1E-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: 5461.9 lumens
Efficiency: N/A
Efficacy: 102.3 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

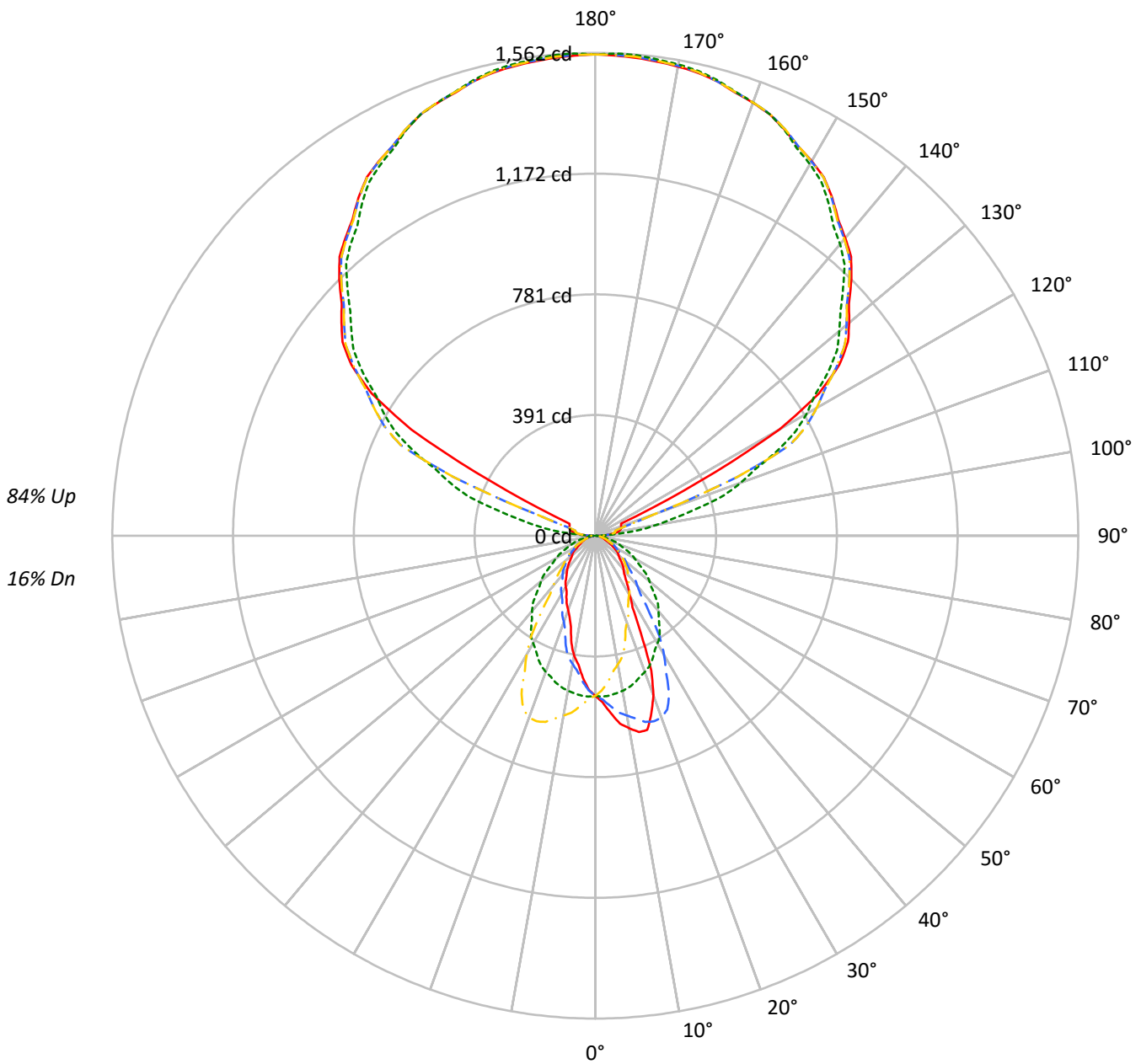
Input Watts (W): 53.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	8360	8360	8360	8360
5°	9339	8413	7460	8413
10°	10362	8355	6466	8355
15°	10870	8232	5095	8232
20°	9424	8052	4409	8052
25°	6180	7803	3935	7803
30°	4161	7500	3563	7500
35°	3370	7121	3213	7121
40°	2995	6709	2974	6709
45°	2710	6224	2653	6224
50°	2467	5745	2459	5745
55°	2320	5210	2291	5210
60°	1941	4724	1918	4724
65°	1639	4290	1857	4290
70°	1511	3829	1751	3829
75°	1416	3337	1616	3337
80°	1302	2743	1432	2743
85°	1204	2167	1260	2167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	0.9
10°-20°	136.8	2.5
20°-30°	176.3	3.2
30°-40°	167.5	3.1
40°-50°	143.5	2.6
50°-60°	109.3	2.0
60°-70°	69.1	1.3
70°-80°	34.5	0.6
80°-90°	12.8	0.2
90°-100°	51.9	1.0
100°-110°	190.5	3.5
110°-120°	509.1	9.3
120°-130°	840.4	15.4
130°-140°	893.8	16.4
140°-150°	830.7	15.2
150°-160°	667.9	12.2
160°-170°	430.4	7.9
170°-180°	148.2	2.7
0°-30°	362.2	6.6
0°-40°	529.7	9.7
0°-60°	782.5	14.3
0°-90°	898.8	16.5
90°-120°	751.5	13.8
90°-150°	3316.5	60.7
90°-180°	4563.0	83.5
0°-180°	5461.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	518	518	518	518	518	
5°	576	519	460	519	576	57
15°	650	492	305	492	650	175
25°	347	438	221	438	347	165
35°	171	361	163	361	171	109
45°	119	273	116	273	119	92
55°	82	185	81	185	82	72
65°	43	112	49	112	43	44
75°	23	54	26	54	23	24
85°	6	12	7	12	6	8
90°	30	1	30	1	30	14
95°	48	73	48	73	48	45
105°	86	342	86	342	86	89
115°	92	648	92	648	92	231
125°	963	916	963	916	963	834
135°	1171	1134	1171	1134	1171	902
145°	1335	1315	1335	1315	1335	835
155°	1449	1448	1449	1448	1449	669
165°	1522	1526	1522	1526	1522	430
175°	1551	1560	1551	1560	1551	148
180°	1557	1557	1557	1557	1557	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	538.9	539.3	539.8	538.8	538.8	537.9	536.0	534.6	530.5	530.0	530.0
5°	576.2	575.8	576.6	574.2	571.0	570.2	566.8	562.3	557.6	552.5	551.4
7.5°	613.2	612.7	611.2	610.9	608.4	602.9	597.5	591.6	583.8	576.2	572.4
10°	632.0	637.9	634.3	628.0	629.2	620.8	616.3	608.6	602.1	590.7	588.3
12.5°	650.4	652.8	651.6	648.0	646.4	640.6	634.5	627.7	615.8	605.6	596.8
15°	650.3	653.7	654.7	653.6	654.4	654.1	650.9	645.3	634.9	623.7	613.9
17.5°	602.3	604.7	610.6	614.6	619.6	630.3	635.6	637.5	636.0	629.6	622.8
20°	548.5	544.5	561.1	569.5	576.7	594.7	610.2	616.2	625.7	625.5	623.7
22.5°	472.1	473.1	488.8	498.8	519.8	537.9	555.5	577.8	596.3	608.5	615.6
25°	346.9	353.8	369.4	383.1	406.5	440.0	470.4	505.6	538.9	565.2	590.3
27.5°	260.5	261.1	273.5	286.1	300.0	327.4	365.8	407.8	455.3	494.5	539.5
30°	223.2	222.0	227.3	235.0	246.9	268.2	296.9	338.3	385.6	444.7	497.2
32.5°	196.6	196.7	200.7	206.4	216.2	230.5	250.3	283.9	328.6	386.7	448.2
35°	171.0	170.8	173.6	177.8	181.9	191.1	204.6	222.2	253.0	307.1	370.1
37.5°	152.5	153.3	154.7	157.3	161.8	167.0	175.1	187.0	208.8	240.9	293.8
40°	142.1	142.5	144.5	146.6	149.3	153.3	159.9	169.5	185.5	211.0	249.8
42.5°	132.7	133.0	134.4	136.4	138.6	142.5	148.1	156.3	169.3	189.2	221.1
45°	118.7	118.7	120.0	120.9	123.3	126.8	131.3	138.2	147.2	161.9	183.2
47.5°	105.8	105.8	106.6	108.1	109.6	112.4	116.8	122.5	129.0	140.4	158.5
50°	98.2	98.5	98.9	100.2	101.2	103.6	107.1	111.9	118.7	127.6	142.7
52.5°	92.2	92.1	92.8	93.3	94.0	95.7	98.3	102.6	108.7	116.4	128.9
55°	82.4	81.7	82.8	83.7	84.2	84.9	86.3	89.0	94.3	100.8	110.1
57.5°	70.2	69.9	70.7	71.5	73.2	75.1	76.4	78.0	80.7	85.4	94.7
60°	60.1	60.1	61.7	62.3	64.2	66.8	69.3	70.7	73.4	76.4	83.3
62.5°	51.2	51.3	52.0	52.6	53.7	56.8	60.4	63.5	66.1	69.0	73.5
65°	42.9	43.2	43.2	43.6	44.3	45.0	46.4	49.0	53.5	57.6	61.0
67.5°	36.4	36.4	36.6	36.9	37.1	37.9	38.5	39.6	40.6	44.5	48.8
70°	32.0	32.6	32.4	32.7	33.0	33.3	34.0	34.5	36.2	37.1	39.6
72.5°	28.0	28.4	28.4	28.6	29.1	29.2	29.7	30.3	31.3	32.0	33.4
75°	22.7	22.5	22.7	23.1	23.2	23.4	23.4	24.1	24.6	25.3	26.3
77.5°	17.5	17.7	17.7	17.7	17.7	18.1	18.0	18.3	18.9	19.3	19.6
80°	14.0	14.2	14.0	14.2	14.4	14.6	14.4	14.6	15.1	15.4	15.4
82.5°	10.9	10.9	11.0	11.0	11.1	11.1	11.4	11.4	11.8	11.7	11.9
85°	6.5	6.3	6.3	6.3	6.5	6.7	6.5	6.5	6.7	6.7	6.7
87.5°	8.4	8.4	8.3	8.2	8.2	7.9	7.7	7.6	7.2	7.1	6.6
90°	30.4	29.9	29.4	28.9	28.4	27.6	26.3	25.0	23.8	22.5	20.5
92.5°	30.4	30.1	29.8	29.5	29.2	28.8	28.1	27.4	26.8	26.1	25.1
95°	48.5	48.7	49.0	49.2	49.4	49.0	47.7	46.4	45.2	44.0	42.2
97.5°	64.6	64.4	64.1	63.8	63.5	62.8	61.8	60.8	59.8	58.8	54.7
100°	75.5	75.0	74.5	74.0	73.5	72.2	70.3	68.2	66.2	64.2	60.0
102.5°	80.9	80.2	79.5	78.8	78.1	76.4	73.8	71.2	68.6	66.0	101.6
105°	85.6	84.6	83.7	82.6	81.6	79.8	77.0	74.2	71.5	68.8	137.0
107.5°	88.1	87.1	86.1	85.1	84.1	85.0	87.8	90.6	93.4	96.3	178.2
110°	89.0	88.0	87.0	86.0	85.0	97.0	122.1	147.1	172.1	197.2	269.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	89.9	89.1	88.3	87.5	86.7	132.0	223.3	314.7	406.0	497.3	515.2
115°	92.4	110.4	128.4	146.5	164.5	231.5	347.4	463.3	579.2	695.1	688.9
117.5°	377.2	436.4	495.7	554.9	614.2	657.8	685.9	713.9	742.0	770.0	765.6
120°	687.3	721.0	754.9	788.7	822.4	837.9	834.9	831.9	828.9	825.9	821.3
122.5°	857.6	864.2	870.8	877.3	883.8	886.2	884.5	882.6	880.8	879.0	874.1
125°	963.3	962.6	961.8	961.1	960.3	959.0	957.3	955.5	953.8	952.0	947.3
127.5°	1030.0	1029.8	1029.7	1029.5	1029.4	1028.0	1025.5	1022.9	1020.4	1017.9	1014.3
130°	1071.4	1071.7	1072.0	1072.2	1072.5	1071.2	1068.5	1065.7	1063.0	1060.2	1057.4
132.5°	1112.0	1112.3	1112.5	1112.8	1113.0	1112.0	1109.6	1107.2	1104.9	1102.6	1099.8
135°	1170.6	1171.1	1171.6	1172.1	1172.6	1171.6	1169.1	1166.6	1164.1	1161.6	1159.4
137.5°	1224.0	1224.9	1225.7	1226.5	1227.4	1226.6	1224.2	1221.7	1219.2	1216.8	1214.3
140°	1257.4	1258.6	1259.9	1261.2	1262.3	1261.9	1259.6	1257.4	1255.1	1252.8	1250.1
142.5°	1289.8	1291.1	1292.3	1293.6	1294.8	1294.4	1292.4	1290.3	1288.2	1286.2	1283.0
145°	1335.1	1336.3	1337.6	1338.9	1340.1	1339.9	1338.1	1336.3	1334.6	1332.8	1328.6
147.5°	1375.0	1376.0	1377.1	1378.2	1379.2	1379.1	1377.8	1376.5	1375.1	1373.9	1369.7
150°	1399.3	1400.6	1401.8	1403.1	1404.3	1404.2	1402.7	1401.2	1399.7	1398.2	1394.2
152.5°	1420.1	1421.7	1423.4	1425.0	1426.6	1426.7	1425.2	1423.7	1422.2	1420.7	1416.9
155°	1448.9	1450.9	1452.9	1454.9	1456.9	1457.1	1455.6	1454.1	1452.6	1451.1	1448.2
157.5°	1475.3	1477.2	1479.2	1481.1	1483.0	1483.2	1481.5	1479.8	1478.1	1476.4	1474.3
160°	1490.6	1492.3	1494.1	1495.9	1497.6	1497.7	1496.2	1494.7	1493.2	1491.7	1490.2
162.5°	1503.2	1505.4	1507.5	1509.7	1511.8	1512.0	1510.4	1508.6	1507.0	1505.2	1504.0
165°	1522.1	1523.9	1525.7	1527.4	1529.1	1529.1	1527.4	1525.7	1523.9	1522.1	1521.4
167.5°	1534.1	1536.4	1538.6	1540.9	1543.1	1543.3	1541.6	1539.8	1538.1	1536.4	1535.6
170°	1541.3	1543.6	1545.8	1548.1	1550.3	1550.5	1548.8	1547.1	1545.3	1543.6	1543.0
172.5°	1546.7	1549.0	1551.2	1553.5	1555.7	1555.9	1554.2	1552.4	1550.7	1549.0	1548.5
175°	1551.4	1553.9	1556.4	1558.9	1561.5	1561.8	1560.0	1558.3	1556.6	1554.8	1554.3
177.5°	1554.3	1556.2	1558.0	1559.7	1561.5	1561.8	1560.4	1558.9	1557.6	1556.2	1555.9
180°	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	530.3	529.1	528.1	525.5	524.2	521.3	520.9	520.8	517.1	513.4	512.4
5°	548.5	545.6	541.3	536.2	531.0	525.6	522.0	519.1	511.9	505.1	501.1
7.5°	566.8	560.6	553.2	543.7	535.7	526.8	520.1	514.2	504.0	494.2	487.6
10°	580.5	570.5	560.5	547.4	537.1	527.0	517.7	509.6	498.1	485.1	475.9
12.5°	589.0	577.9	564.3	551.4	538.1	525.3	512.8	502.4	488.9	475.5	464.6
15°	600.5	588.6	572.0	553.7	536.6	519.8	505.5	492.5	474.9	458.8	445.5
17.5°	609.9	593.5	575.8	554.5	534.7	513.5	495.0	478.4	458.8	439.4	423.7
20°	612.9	596.7	576.2	554.9	531.6	506.5	486.6	468.6	447.5	426.4	408.4
22.5°	611.0	598.4	575.6	550.2	526.2	500.1	477.5	456.6	433.2	411.8	390.9
25°	598.3	594.0	572.4	544.7	517.4	487.0	460.8	438.0	411.4	388.3	365.7
27.5°	568.7	578.1	564.7	535.1	504.7	472.1	442.8	416.8	389.1	363.2	340.6
30°	540.2	561.6	555.9	528.5	494.5	462.5	429.5	402.3	372.9	346.2	323.9
32.5°	501.2	536.5	542.2	519.3	484.1	448.9	414.4	387.4	356.6	328.5	306.7
35°	439.0	491.9	516.3	501.7	466.4	428.4	392.8	361.3	330.3	302.7	281.1
37.5°	365.0	437.0	477.5	478.6	446.2	406.7	367.9	336.6	304.9	277.7	254.4
40°	316.9	395.0	447.7	459.4	432.1	389.4	350.1	318.3	287.4	260.7	233.9
42.5°	273.7	351.5	416.3	436.7	414.9	372.6	333.2	299.9	269.8	244.6	217.2
45°	221.3	289.4	360.8	397.1	385.1	345.9	304.3	272.6	244.4	222.6	196.3
47.5°	186.7	234.6	303.8	352.9	352.8	317.0	276.0	245.7	219.5	199.1	177.8
50°	167.0	208.7	267.2	323.0	327.6	297.6	258.7	228.7	204.2	182.8	165.7
52.5°	149.2	183.7	236.2	289.8	303.1	277.0	239.3	211.6	187.8	168.1	153.5
55°	126.1	152.8	192.7	242.7	262.9	244.5	211.0	185.1	165.9	149.3	136.7
57.5°	106.7	126.7	158.8	199.0	222.4	211.0	183.3	162.2	145.8	130.8	120.9
60°	94.5	110.8	138.0	171.7	197.6	189.5	165.9	146.3	132.3	119.3	110.0
62.5°	82.9	97.0	120.3	147.7	171.3	168.0	148.8	132.3	120.0	108.2	100.3
65°	66.8	77.0	95.2	116.6	135.7	137.3	123.4	112.3	101.3	92.0	84.9
67.5°	53.2	59.9	72.6	90.7	105.0	110.1	101.6	93.1	84.4	77.2	71.1
70°	44.8	50.2	59.6	74.1	87.3	92.7	87.8	81.1	73.6	67.7	62.4
72.5°	36.3	41.6	48.5	59.2	70.4	76.3	74.5	69.8	63.7	58.7	53.8
75°	27.3	29.0	33.7	40.9	49.7	54.7	55.9	53.5	48.6	44.8	41.9
77.5°	20.2	21.2	23.4	27.2	33.0	37.5	39.3	39.0	35.6	33.5	30.7
80°	16.2	16.7	17.8	19.4	23.8	28.3	29.5	29.5	27.2	26.3	23.6
82.5°	12.3	12.7	13.4	14.3	16.2	20.2	21.6	21.9	20.4	19.3	17.1
85°	7.1	6.8	7.2	7.8	8.1	9.2	11.3	11.7	11.3	9.9	9.3
87.5°	6.2	5.9	5.5	4.9	4.4	4.0	4.2	4.4	4.4	4.5	4.8
90°	18.5	16.6	14.5	12.1	9.4	6.7	3.9	1.1	3.9	6.7	9.4
92.5°	24.2	23.1	22.1	21.8	22.0	22.3	22.5	22.7	22.5	22.3	22.0
95°	40.4	38.7	36.9	40.2	48.5	56.7	65.0	73.2	65.0	56.7	48.5
97.5°	50.7	46.7	42.6	52.2	75.5	98.8	122.1	145.4	122.1	98.8	75.5
100°	55.7	51.4	47.2	62.2	96.5	130.8	165.1	199.4	165.1	130.8	96.5
102.5°	137.2	172.9	208.4	229.9	237.1	244.4	251.7	258.9	251.7	244.4	237.1
105°	205.4	273.8	342.1	372.6	365.0	357.5	350.0	342.5	350.0	357.5	365.0
107.5°	260.2	342.1	424.1	462.1	456.0	450.0	443.9	437.8	443.9	450.0	456.0
110°	341.9	414.2	486.6	520.1	514.9	509.6	504.4	499.2	504.4	509.6	514.9



TEST NUMBER: P331781-927

CATALOG NUMBER: S122RDIW-S290D1440U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	533.1	551.0	568.8	575.4	570.8	566.1	561.4	556.8	561.4	566.1	570.8
115°	682.6	676.4	670.1	664.9	660.6	656.3	652.1	647.8	652.1	656.3	660.6
117.5°	761.4	757.0	752.7	748.2	743.5	738.7	734.0	729.2	734.0	738.7	743.5
120°	816.8	812.3	807.8	803.7	799.9	796.1	792.4	788.7	792.4	796.1	799.9
122.5°	869.2	864.3	859.4	855.0	851.0	847.1	843.1	839.2	843.1	847.1	851.0
125°	942.5	937.8	933.0	929.0	925.7	922.5	919.2	916.0	919.2	922.5	925.7
127.5°	1010.7	1007.2	1003.6	1000.1	996.4	992.8	989.2	985.6	989.2	992.8	996.4
130°	1054.7	1051.9	1049.2	1045.8	1041.8	1037.8	1033.8	1029.8	1033.8	1037.8	1041.8
132.5°	1097.0	1094.3	1091.5	1088.5	1085.1	1081.6	1078.2	1074.8	1078.2	1081.6	1085.1
135°	1157.1	1154.8	1152.5	1149.5	1145.4	1141.5	1137.4	1133.5	1137.4	1141.5	1145.4
137.5°	1211.7	1209.1	1206.6	1203.9	1201.1	1198.3	1195.5	1192.7	1195.5	1198.3	1201.1
140°	1247.4	1244.6	1241.8	1239.4	1237.5	1235.5	1233.4	1231.4	1233.4	1235.5	1237.5
142.5°	1279.9	1276.8	1273.6	1271.1	1269.3	1267.5	1265.7	1263.9	1265.7	1267.5	1269.3
145°	1324.4	1320.1	1315.8	1313.8	1314.1	1314.3	1314.5	1314.9	1314.5	1314.3	1314.1
147.5°	1365.5	1361.2	1357.0	1355.4	1356.4	1357.3	1358.3	1359.2	1358.3	1357.3	1356.4
150°	1390.2	1386.2	1382.2	1381.0	1382.8	1384.6	1386.3	1388.1	1386.3	1384.6	1382.8
152.5°	1413.1	1409.3	1405.5	1404.6	1406.5	1408.5	1410.5	1412.4	1410.5	1408.5	1406.5
155°	1445.2	1442.2	1439.2	1438.8	1441.0	1443.3	1445.5	1447.8	1445.5	1443.3	1441.0
157.5°	1472.2	1470.1	1468.0	1467.9	1469.8	1471.7	1473.6	1475.5	1473.6	1471.7	1469.8
160°	1488.7	1487.2	1485.7	1485.7	1487.2	1488.7	1490.2	1491.7	1490.2	1488.7	1487.2
162.5°	1502.6	1501.3	1500.0	1500.2	1501.7	1503.2	1504.7	1506.1	1504.7	1503.2	1501.7
165°	1520.6	1519.9	1519.2	1519.5	1521.0	1522.5	1524.0	1525.5	1524.0	1522.5	1521.0
167.5°	1534.9	1534.2	1533.5	1533.9	1535.4	1536.9	1538.4	1539.9	1538.4	1536.9	1535.4
170°	1542.5	1542.1	1541.5	1542.1	1543.6	1545.1	1546.6	1548.1	1546.6	1545.1	1543.6
172.5°	1547.9	1547.4	1547.0	1547.4	1549.0	1550.5	1552.0	1553.5	1552.0	1550.5	1549.0
175°	1553.8	1553.3	1552.8	1553.5	1555.2	1557.0	1558.7	1560.4	1558.7	1557.0	1555.2
177.5°	1555.8	1555.5	1555.4	1555.9	1557.4	1558.8	1560.2	1561.5	1560.2	1558.8	1557.4
180°	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0



TEST NUMBER: P331781-927

CATALOG NUMBER: S122RDIW-S290D1440U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	510.6	509.5	507.6	504.8	503.0	500.0	498.0	499.2	499.5	499.2	498.9
5°	496.9	493.1	487.8	482.8	478.1	473.1	470.2	469.0	466.4	465.0	464.2
7.5°	480.2	473.7	466.4	457.6	450.1	442.3	438.3	436.3	431.2	428.4	426.0
10°	467.9	457.6	450.2	438.7	431.7	421.4	414.4	414.6	407.6	403.6	400.8
12.5°	454.2	442.9	430.6	420.3	410.5	402.3	393.8	390.4	382.9	379.1	371.4
15°	431.5	418.4	405.4	391.4	381.5	368.7	356.5	341.5	329.5	319.0	316.2
17.5°	406.8	390.5	377.5	361.0	344.0	322.6	308.4	299.7	292.5	286.9	282.8
20°	389.8	373.2	359.3	334.5	311.6	297.1	286.7	280.0	272.4	266.5	263.2
22.5°	371.9	354.7	335.7	308.0	290.2	278.5	269.3	261.6	256.4	251.8	248.8
25°	346.6	327.6	296.5	277.5	263.1	250.8	244.4	239.7	234.3	228.0	225.1
27.5°	319.8	289.8	267.4	253.2	239.5	231.6	225.7	218.7	213.9	211.0	208.0
30°	299.8	269.7	252.3	236.8	227.1	218.2	211.4	207.5	202.8	198.0	196.0
32.5°	277.5	253.5	236.7	223.9	214.0	206.4	201.1	194.6	191.3	188.3	184.2
35°	249.8	231.6	216.3	205.9	196.5	190.4	184.1	180.3	174.2	171.7	170.1
37.5°	226.3	210.6	199.2	188.1	180.7	174.0	170.1	164.1	161.4	157.9	154.5
40°	213.0	197.6	186.6	177.6	169.3	164.3	159.5	154.6	150.6	149.0	144.9
42.5°	199.6	187.0	175.9	166.1	160.6	155.2	149.1	145.5	141.4	138.8	136.3
45°	180.9	169.7	160.3	152.3	146.1	140.5	136.6	130.6	128.3	123.1	120.9
47.5°	164.5	154.1	145.1	137.4	131.5	127.9	122.1	117.4	113.7	110.4	107.7
50°	152.8	144.1	135.5	128.7	123.3	118.0	112.1	109.8	104.0	102.3	100.8
52.5°	142.1	133.9	126.0	119.3	113.9	108.8	103.6	100.5	96.6	95.1	93.9
55°	127.2	119.3	111.8	105.8	100.4	95.2	92.0	88.2	86.3	85.1	83.7
57.5°	112.3	105.1	99.3	93.3	87.9	83.7	80.0	77.7	75.9	74.2	72.5
60°	102.7	95.9	90.7	85.1	79.5	76.1	73.3	70.5	68.4	65.8	65.1
62.5°	92.7	86.7	81.9	76.4	71.6	68.5	65.8	63.2	60.6	57.0	55.9
65°	78.8	74.1	69.1	64.6	60.3	57.2	53.2	50.4	49.3	49.0	48.8
67.5°	66.3	61.9	57.5	52.9	49.0	46.2	44.1	43.7	42.9	42.8	42.2
70°	57.9	53.8	49.5	45.2	41.4	40.9	40.2	39.4	38.5	38.2	37.8
72.5°	50.5	46.2	41.8	38.4	36.8	36.1	35.4	34.6	34.1	33.7	33.5
75°	38.7	34.7	31.8	30.6	29.7	29.2	28.0	27.6	27.2	26.6	26.5
77.5°	27.9	25.6	24.3	23.5	22.6	22.0	21.4	20.8	20.4	20.4	20.0
80°	21.2	20.1	19.3	18.1	17.8	17.1	17.0	16.4	16.6	16.0	16.0
82.5°	16.5	15.1	14.3	13.9	13.5	12.9	12.8	12.5	12.5	12.1	12.1
85°	8.5	8.1	7.8	7.4	7.4	6.8	7.1	6.8	6.8	6.5	6.3
87.5°	5.1	5.5	5.6	6.0	6.4	6.7	6.9	7.1	7.3	7.5	7.5
90°	12.1	14.5	16.6	18.5	20.5	22.5	23.8	25.0	26.3	27.6	28.4
92.5°	21.8	22.1	23.1	24.2	25.1	26.1	26.8	27.4	28.1	28.8	29.2
95°	40.2	36.9	38.7	40.4	42.2	44.0	45.2	46.4	47.7	49.0	49.4
97.5°	52.2	42.6	46.7	50.7	54.7	58.8	59.8	60.8	61.8	62.8	63.5
100°	62.2	47.2	51.4	55.7	60.0	64.2	66.2	68.2	70.3	72.2	73.5
102.5°	229.9	208.4	172.9	137.2	101.6	66.0	68.6	71.2	73.8	76.4	78.1
105°	372.6	342.1	273.8	205.4	137.0	68.8	71.5	74.2	77.0	79.8	81.6
107.5°	462.1	424.1	342.1	260.2	178.2	96.3	93.4	90.6	87.8	85.0	84.1
110°	520.1	486.6	414.2	341.9	269.5	197.2	172.1	147.1	122.1	97.0	85.0



TEST NUMBER: P331781-927

CATALOG NUMBER: S122RDIW-S290D1440U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	575.4	568.8	551.0	533.1	515.2	497.3	406.0	314.7	223.3	132.0	86.7
115°	664.9	670.1	676.4	682.6	688.9	695.1	579.2	463.3	347.4	231.5	164.5
117.5°	748.2	752.7	757.0	761.4	765.6	770.0	742.0	713.9	685.9	657.8	614.2
120°	803.7	807.8	812.3	816.8	821.3	825.9	828.9	831.9	834.9	837.9	822.4
122.5°	855.0	859.4	864.3	869.2	874.1	879.0	880.8	882.6	884.5	886.2	883.8
125°	929.0	933.0	937.8	942.5	947.3	952.0	953.8	955.5	957.3	959.0	960.3
127.5°	1000.1	1003.6	1007.2	1010.7	1014.3	1017.9	1020.4	1022.9	1025.5	1028.0	1029.4
130°	1045.8	1049.2	1051.9	1054.7	1057.4	1060.2	1063.0	1065.7	1068.5	1071.2	1072.5
132.5°	1088.5	1091.5	1094.3	1097.0	1099.8	1102.6	1104.9	1107.2	1109.6	1112.0	1113.0
135°	1149.5	1152.5	1154.8	1157.1	1159.4	1161.6	1164.1	1166.6	1169.1	1171.6	1172.6
137.5°	1203.9	1206.6	1209.1	1211.7	1214.3	1216.8	1219.2	1221.7	1224.2	1226.6	1227.4
140°	1239.4	1241.8	1244.6	1247.4	1250.1	1252.8	1255.1	1257.4	1259.6	1261.9	1262.3
142.5°	1271.1	1273.6	1276.8	1279.9	1283.0	1286.2	1288.2	1290.3	1292.4	1294.4	1294.8
145°	1313.8	1315.8	1320.1	1324.4	1328.6	1332.8	1334.6	1336.3	1338.1	1339.9	1340.1
147.5°	1355.4	1357.0	1361.2	1365.5	1369.7	1373.9	1375.1	1376.5	1377.8	1379.1	1379.2
150°	1381.0	1382.2	1386.2	1390.2	1394.2	1398.2	1399.7	1401.2	1402.7	1404.2	1404.3
152.5°	1404.6	1405.5	1409.3	1413.1	1416.9	1420.7	1422.2	1423.7	1425.2	1426.7	1426.6
155°	1438.8	1439.2	1442.2	1445.2	1448.2	1451.1	1452.6	1454.1	1455.6	1457.1	1456.9
157.5°	1467.9	1468.0	1470.1	1472.2	1474.3	1476.4	1478.1	1479.8	1481.5	1483.2	1483.0
160°	1485.7	1485.7	1487.2	1488.7	1490.2	1491.7	1493.2	1494.7	1496.2	1497.7	1497.6
162.5°	1500.2	1500.0	1501.3	1502.6	1504.0	1505.2	1507.0	1508.6	1510.4	1512.0	1511.8
165°	1519.5	1519.2	1519.9	1520.6	1521.4	1522.1	1523.9	1525.7	1527.4	1529.1	1529.1
167.5°	1533.9	1533.5	1534.2	1534.9	1535.6	1536.4	1538.1	1539.8	1541.6	1543.3	1543.1
170°	1542.1	1541.5	1542.1	1542.5	1543.0	1543.6	1545.3	1547.1	1548.8	1550.5	1550.3
172.5°	1547.4	1547.0	1547.4	1547.9	1548.5	1549.0	1550.7	1552.4	1554.2	1555.9	1555.7
175°	1553.5	1552.8	1553.3	1553.8	1554.3	1554.8	1556.6	1558.3	1560.0	1561.8	1561.5
177.5°	1555.9	1555.4	1555.5	1555.8	1555.9	1556.2	1557.6	1558.9	1560.4	1561.8	1561.5
180°	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0



TEST NUMBER: P331781-927

CATALOG NUMBER: S122RDIW-S290D1440U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	497.3	497.6	497.2	497.4	497.2	497.6	497.3	498.9	499.2	499.5	499.2
5°	463.3	461.2	460.8	460.3	460.8	461.2	463.3	464.2	465.0	466.4	469.0
7.5°	422.9	422.6	421.6	420.3	421.6	422.6	422.9	426.0	428.4	431.2	436.3
10°	396.8	395.9	395.7	394.4	395.7	395.9	396.8	400.8	403.6	407.6	414.6
12.5°	366.2	360.4	359.9	356.7	359.9	360.4	366.2	371.4	379.1	382.9	390.4
15°	311.9	310.8	307.1	304.8	307.1	310.8	311.9	316.2	319.0	329.5	341.5
17.5°	280.7	277.2	276.1	275.6	276.1	277.2	280.7	282.8	286.9	292.5	299.7
20°	260.7	257.5	257.0	256.6	257.0	257.5	260.7	263.2	266.5	272.4	280.0
22.5°	246.9	243.5	242.2	241.1	242.2	243.5	246.9	248.8	251.8	256.4	261.6
25°	223.3	222.0	221.3	220.9	221.3	222.0	223.3	225.1	228.0	234.3	239.7
27.5°	204.9	202.1	201.5	200.6	201.5	202.1	204.9	208.0	211.0	213.9	218.7
30°	194.3	193.5	192.2	191.1	192.2	193.5	194.3	196.0	198.0	202.8	207.5
32.5°	182.0	181.2	180.1	179.6	180.1	181.2	182.0	184.2	188.3	191.3	194.6
35°	168.3	165.7	164.6	163.0	164.6	165.7	168.3	170.1	171.7	174.2	180.3
37.5°	153.8	152.4	150.9	151.5	150.9	152.4	153.8	154.5	157.9	161.4	164.1
40°	142.5	141.6	141.2	141.1	141.2	141.6	142.5	144.9	149.0	150.6	154.6
42.5°	133.6	131.1	130.2	130.2	130.2	131.1	133.6	136.3	138.8	141.4	145.5
45°	120.0	117.7	116.1	116.2	116.1	117.7	120.0	120.9	123.1	128.3	130.6
47.5°	106.2	106.1	105.0	105.4	105.0	106.1	106.2	107.7	110.4	113.7	117.4
50°	99.5	98.5	97.7	97.9	97.7	98.5	99.5	100.8	102.3	104.0	109.8
52.5°	93.2	92.2	91.7	92.4	91.7	92.2	93.2	93.9	95.1	96.6	100.5
55°	82.8	81.7	81.5	81.4	81.5	81.7	82.8	83.7	85.1	86.3	88.2
57.5°	71.1	70.4	69.3	68.9	69.3	70.4	71.1	72.5	74.2	75.9	77.7
60°	62.8	61.4	59.6	59.4	59.6	61.4	62.8	65.1	65.8	68.4	70.5
62.5°	55.1	54.9	54.5	54.5	54.5	54.9	55.1	55.9	57.0	60.6	63.2
65°	48.4	48.2	48.4	48.6	48.4	48.2	48.4	48.8	49.0	49.3	50.4
67.5°	42.1	41.8	41.5	41.7	41.5	41.8	42.1	42.2	42.8	42.9	43.7
70°	37.4	37.2	37.1	37.1	37.1	37.2	37.4	37.8	38.2	38.5	39.4
72.5°	32.8	32.8	32.6	32.5	32.6	32.8	32.8	33.5	33.7	34.1	34.6
75°	26.3	25.9	25.9	25.9	25.9	25.9	26.3	26.5	26.6	27.2	27.6
77.5°	20.0	19.8	19.6	19.5	19.6	19.8	20.0	20.0	20.4	20.4	20.8
80°	15.8	15.7	15.4	15.4	15.4	15.7	15.8	16.0	16.0	16.6	16.4
82.5°	12.1	11.9	11.9	11.7	11.9	11.9	12.1	12.1	12.1	12.5	12.5
85°	6.5	6.7	6.5	6.8	6.5	6.7	6.5	6.3	6.5	6.8	6.8
87.5°	7.7	7.6	7.8	7.8	7.8	7.6	7.7	7.5	7.5	7.3	7.1
90°	28.9	29.4	29.9	30.4	29.9	29.4	28.9	28.4	27.6	26.3	25.0
92.5°	29.5	29.8	30.1	30.4	30.1	29.8	29.5	29.2	28.8	28.1	27.4
95°	49.2	49.0	48.7	48.5	48.7	49.0	49.2	49.4	49.0	47.7	46.4
97.5°	63.8	64.1	64.4	64.6	64.4	64.1	63.8	63.5	62.8	61.8	60.8
100°	74.0	74.5	75.0	75.5	75.0	74.5	74.0	73.5	72.2	70.3	68.2
102.5°	78.8	79.5	80.2	80.9	80.2	79.5	78.8	78.1	76.4	73.8	71.2
105°	82.6	83.7	84.6	85.6	84.6	83.7	82.6	81.6	79.8	77.0	74.2
107.5°	85.1	86.1	87.1	88.1	87.1	86.1	85.1	84.1	85.0	87.8	90.6
110°	86.0	87.0	88.0	89.0	88.0	87.0	86.0	85.0	97.0	122.1	147.1



TEST NUMBER: P331781-927

CATALOG NUMBER: S122RDIW-S290D1440U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	87.5	88.3	89.1	89.9	89.1	88.3	87.5	86.7	132.0	223.3	314.7
115°	146.5	128.4	110.4	92.4	110.4	128.4	146.5	164.5	231.5	347.4	463.3
117.5°	554.9	495.7	436.4	377.2	436.4	495.7	554.9	614.2	657.8	685.9	713.9
120°	788.7	754.9	721.0	687.3	721.0	754.9	788.7	822.4	837.9	834.9	831.9
122.5°	877.3	870.8	864.2	857.6	864.2	870.8	877.3	883.8	886.2	884.5	882.6
125°	961.1	961.8	962.6	963.3	962.6	961.8	961.1	960.3	959.0	957.3	955.5
127.5°	1029.5	1029.7	1029.8	1030.0	1029.8	1029.7	1029.5	1029.4	1028.0	1025.5	1022.9
130°	1072.2	1072.0	1071.7	1071.4	1071.7	1072.0	1072.2	1072.5	1071.2	1068.5	1065.7
132.5°	1112.8	1112.5	1112.3	1112.0	1112.3	1112.5	1112.8	1113.0	1112.0	1109.6	1107.2
135°	1172.1	1171.6	1171.1	1170.6	1171.1	1171.6	1172.1	1172.6	1171.6	1169.1	1166.6
137.5°	1226.5	1225.7	1224.9	1224.0	1224.9	1225.7	1226.5	1227.4	1226.6	1224.2	1221.7
140°	1261.2	1259.9	1258.6	1257.4	1258.6	1259.9	1261.2	1262.3	1261.9	1259.6	1257.4
142.5°	1293.6	1292.3	1291.1	1289.8	1291.1	1292.3	1293.6	1294.8	1294.4	1292.4	1290.3
145°	1338.9	1337.6	1336.3	1335.1	1336.3	1337.6	1338.9	1340.1	1339.9	1338.1	1336.3
147.5°	1378.2	1377.1	1376.0	1375.0	1376.0	1377.1	1378.2	1379.2	1379.1	1377.8	1376.5
150°	1403.1	1401.8	1400.6	1399.3	1400.6	1401.8	1403.1	1404.3	1404.2	1402.7	1401.2
152.5°	1425.0	1423.4	1421.7	1420.1	1421.7	1423.4	1425.0	1426.6	1426.7	1425.2	1423.7
155°	1454.9	1452.9	1450.9	1448.9	1450.9	1452.9	1454.9	1456.9	1457.1	1455.6	1454.1
157.5°	1481.1	1479.2	1477.2	1475.3	1477.2	1479.2	1481.1	1483.0	1483.2	1481.5	1479.8
160°	1495.9	1494.1	1492.3	1490.6	1492.3	1494.1	1495.9	1497.6	1497.7	1496.2	1494.7
162.5°	1509.7	1507.5	1505.4	1503.2	1505.4	1507.5	1509.7	1511.8	1512.0	1510.4	1508.6
165°	1527.4	1525.7	1523.9	1522.1	1523.9	1525.7	1527.4	1529.1	1529.1	1527.4	1525.7
167.5°	1540.9	1538.6	1536.4	1534.1	1536.4	1538.6	1540.9	1543.1	1543.3	1541.6	1539.8
170°	1548.1	1545.8	1543.6	1541.3	1543.6	1545.8	1548.1	1550.3	1550.5	1548.8	1547.1
172.5°	1553.5	1551.2	1549.0	1546.7	1549.0	1551.2	1553.5	1555.7	1555.9	1554.2	1552.4
175°	1558.9	1556.4	1553.9	1551.4	1553.9	1556.4	1558.9	1561.5	1561.8	1560.0	1558.3
177.5°	1559.7	1558.0	1556.2	1554.3	1556.2	1558.0	1559.7	1561.5	1561.8	1560.4	1558.9
180°	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0



TEST NUMBER: P331781-927

CATALOG NUMBER: S122RDIW-S290D1440U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	498.0	500.0	503.0	504.8	507.6	509.5	510.6	512.4	513.4	517.1	520.8
5°	470.2	473.1	478.1	482.8	487.8	493.1	496.9	501.1	505.1	511.9	519.1
7.5°	438.3	442.3	450.1	457.6	466.4	473.7	480.2	487.6	494.2	504.0	514.2
10°	414.4	421.4	431.7	438.7	450.2	457.6	467.9	475.9	485.1	498.1	509.6
12.5°	393.8	402.3	410.5	420.3	430.6	442.9	454.2	464.6	475.5	488.9	502.4
15°	356.5	368.7	381.5	391.4	405.4	418.4	431.5	445.5	458.8	474.9	492.5
17.5°	308.4	322.6	344.0	361.0	377.5	390.5	406.8	423.7	439.4	458.8	478.4
20°	286.7	297.1	311.6	334.5	359.3	373.2	389.8	408.4	426.4	447.5	468.6
22.5°	269.3	278.5	290.2	308.0	335.7	354.7	371.9	390.9	411.8	433.2	456.6
25°	244.4	250.8	263.1	277.5	296.5	327.6	346.6	365.7	388.3	411.4	438.0
27.5°	225.7	231.6	239.5	253.2	267.4	289.8	319.8	340.6	363.2	389.1	416.8
30°	211.4	218.2	227.1	236.8	252.3	269.7	299.8	323.9	346.2	372.9	402.3
32.5°	201.1	206.4	214.0	223.9	236.7	253.5	277.5	306.7	328.5	356.6	387.4
35°	184.1	190.4	196.5	205.9	216.3	231.6	249.8	281.1	302.7	330.3	361.3
37.5°	170.1	174.0	180.7	188.1	199.2	210.6	226.3	254.4	277.7	304.9	336.6
40°	159.5	164.3	169.3	177.6	186.6	197.6	213.0	233.9	260.7	287.4	318.3
42.5°	149.1	155.2	160.6	166.1	175.9	187.0	199.6	217.2	244.6	269.8	299.9
45°	136.6	140.5	146.1	152.3	160.3	169.7	180.9	196.3	222.6	244.4	272.6
47.5°	122.1	127.9	131.5	137.4	145.1	154.1	164.5	177.8	199.1	219.5	245.7
50°	112.1	118.0	123.3	128.7	135.5	144.1	152.8	165.7	182.8	204.2	228.7
52.5°	103.6	108.8	113.9	119.3	126.0	133.9	142.1	153.5	168.1	187.8	211.6
55°	92.0	95.2	100.4	105.8	111.8	119.3	127.2	136.7	149.3	165.9	185.1
57.5°	80.0	83.7	87.9	93.3	99.3	105.1	112.3	120.9	130.8	145.8	162.2
60°	73.3	76.1	79.5	85.1	90.7	95.9	102.7	110.0	119.3	132.3	146.3
62.5°	65.8	68.5	71.6	76.4	81.9	86.7	92.7	100.3	108.2	120.0	132.3
65°	53.2	57.2	60.3	64.6	69.1	74.1	78.8	84.9	92.0	101.3	112.3
67.5°	44.1	46.2	49.0	52.9	57.5	61.9	66.3	71.1	77.2	84.4	93.1
70°	40.2	40.9	41.4	45.2	49.5	53.8	57.9	62.4	67.7	73.6	81.1
72.5°	35.4	36.1	36.8	38.4	41.8	46.2	50.5	53.8	58.7	63.7	69.8
75°	28.0	29.2	29.7	30.6	31.8	34.7	38.7	41.9	44.8	48.6	53.5
77.5°	21.4	22.0	22.6	23.5	24.3	25.6	27.9	30.7	33.5	35.6	39.0
80°	17.0	17.1	17.8	18.1	19.3	20.1	21.2	23.6	26.3	27.2	29.5
82.5°	12.8	12.9	13.5	13.9	14.3	15.1	16.5	17.1	19.3	20.4	21.9
85°	7.1	6.8	7.4	7.4	7.8	8.1	8.5	9.3	9.9	11.3	11.7
87.5°	6.9	6.7	6.4	6.0	5.6	5.5	5.1	4.8	4.5	4.4	4.4
90°	23.8	22.5	20.5	18.5	16.6	14.5	12.1	9.4	6.7	3.9	1.1
92.5°	26.8	26.1	25.1	24.2	23.1	22.1	21.8	22.0	22.3	22.5	22.7
95°	45.2	44.0	42.2	40.4	38.7	36.9	40.2	48.5	56.7	65.0	73.2
97.5°	59.8	58.8	54.7	50.7	46.7	42.6	52.2	75.5	98.8	122.1	145.4
100°	66.2	64.2	60.0	55.7	51.4	47.2	62.2	96.5	130.8	165.1	199.4
102.5°	68.6	66.0	101.6	137.2	172.9	208.4	229.9	237.1	244.4	251.7	258.9
105°	71.5	68.8	137.0	205.4	273.8	342.1	372.6	365.0	357.5	350.0	342.5
107.5°	93.4	96.3	178.2	260.2	342.1	424.1	462.1	456.0	450.0	443.9	437.8
110°	172.1	197.2	269.5	341.9	414.2	486.6	520.1	514.9	509.6	504.4	499.2



TEST NUMBER: P331781-927

CATALOG NUMBER: S122RDIW-S290D1440U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	406.0	497.3	515.2	533.1	551.0	568.8	575.4	570.8	566.1	561.4	556.8
115°	579.2	695.1	688.9	682.6	676.4	670.1	664.9	660.6	656.3	652.1	647.8
117.5°	742.0	770.0	765.6	761.4	757.0	752.7	748.2	743.5	738.7	734.0	729.2
120°	828.9	825.9	821.3	816.8	812.3	807.8	803.7	799.9	796.1	792.4	788.7
122.5°	880.8	879.0	874.1	869.2	864.3	859.4	855.0	851.0	847.1	843.1	839.2
125°	953.8	952.0	947.3	942.5	937.8	933.0	929.0	925.7	922.5	919.2	916.0
127.5°	1020.4	1017.9	1014.3	1010.7	1007.2	1003.6	1000.1	996.4	992.8	989.2	985.6
130°	1063.0	1060.2	1057.4	1054.7	1051.9	1049.2	1045.8	1041.8	1037.8	1033.8	1029.8
132.5°	1104.9	1102.6	1099.8	1097.0	1094.3	1091.5	1088.5	1085.1	1081.6	1078.2	1074.8
135°	1164.1	1161.6	1159.4	1157.1	1154.8	1152.5	1149.5	1145.4	1141.5	1137.4	1133.5
137.5°	1219.2	1216.8	1214.3	1211.7	1209.1	1206.6	1203.9	1201.1	1198.3	1195.5	1192.7
140°	1255.1	1252.8	1250.1	1247.4	1244.6	1241.8	1239.4	1237.5	1235.5	1233.4	1231.4
142.5°	1288.2	1286.2	1283.0	1279.9	1276.8	1273.6	1271.1	1269.3	1267.5	1265.7	1263.9
145°	1334.6	1332.8	1328.6	1324.4	1320.1	1315.8	1313.8	1314.1	1314.3	1314.5	1314.9
147.5°	1375.1	1373.9	1369.7	1365.5	1361.2	1357.0	1355.4	1356.4	1357.3	1358.3	1359.2
150°	1399.7	1398.2	1394.2	1390.2	1386.2	1382.2	1381.0	1382.8	1384.6	1386.3	1388.1
152.5°	1422.2	1420.7	1416.9	1413.1	1409.3	1405.5	1404.6	1406.5	1408.5	1410.5	1412.4
155°	1452.6	1451.1	1448.2	1445.2	1442.2	1439.2	1438.8	1441.0	1443.3	1445.5	1447.8
157.5°	1478.1	1476.4	1474.3	1472.2	1470.1	1468.0	1467.9	1469.8	1471.7	1473.6	1475.5
160°	1493.2	1491.7	1490.2	1488.7	1487.2	1485.7	1485.7	1487.2	1488.7	1490.2	1491.7
162.5°	1507.0	1505.2	1504.0	1502.6	1501.3	1500.0	1500.2	1501.7	1503.2	1504.7	1506.1
165°	1523.9	1522.1	1521.4	1520.6	1519.9	1519.2	1519.5	1521.0	1522.5	1524.0	1525.5
167.5°	1538.1	1536.4	1535.6	1534.9	1534.2	1533.5	1533.9	1535.4	1536.9	1538.4	1539.9
170°	1545.3	1543.6	1543.0	1542.5	1542.1	1541.5	1542.1	1543.6	1545.1	1546.6	1548.1
172.5°	1550.7	1549.0	1548.5	1547.9	1547.4	1547.0	1547.4	1549.0	1550.5	1552.0	1553.5
175°	1556.6	1554.8	1554.3	1553.8	1553.3	1552.8	1553.5	1555.2	1557.0	1558.7	1560.4
177.5°	1557.6	1556.2	1555.9	1555.8	1555.5	1555.4	1555.9	1557.4	1558.8	1560.2	1561.5
180°	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0



TEST NUMBER: P331781-927

CATALOG NUMBER: S122RDIW-S290D1440U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	520.9	521.3	524.2	525.5	528.1	529.1	530.3	530.0	530.0	530.5	534.6
5°	522.0	525.6	531.0	536.2	541.3	545.6	548.5	551.4	552.5	557.6	562.3
7.5°	520.1	526.8	535.7	543.7	553.2	560.6	566.8	572.4	576.2	583.8	591.6
10°	517.7	527.0	537.1	547.4	560.5	570.5	580.5	588.3	590.7	602.1	608.6
12.5°	512.8	525.3	538.1	551.4	564.3	577.9	589.0	596.8	605.6	615.8	627.7
15°	505.5	519.8	536.6	553.7	572.0	588.6	600.5	613.9	623.7	634.9	645.3
17.5°	495.0	513.5	534.7	554.5	575.8	593.5	609.9	622.8	629.6	636.0	637.5
20°	486.6	506.5	531.6	554.9	576.2	596.7	612.9	623.7	625.5	625.7	616.2
22.5°	477.5	500.1	526.2	550.2	575.6	598.4	611.0	615.6	608.5	596.3	577.8
25°	460.8	487.0	517.4	544.7	572.4	594.0	598.3	590.3	565.2	538.9	505.6
27.5°	442.8	472.1	504.7	535.1	564.7	578.1	568.7	539.5	494.5	455.3	407.8
30°	429.5	462.5	494.5	528.5	555.9	561.6	540.2	497.2	444.7	385.6	338.3
32.5°	414.4	448.9	484.1	519.3	542.2	536.5	501.2	448.2	386.7	328.6	283.9
35°	392.8	428.4	466.4	501.7	516.3	491.9	439.0	370.1	307.1	253.0	222.2
37.5°	367.9	406.7	446.2	478.6	477.5	437.0	365.0	293.8	240.9	208.8	187.0
40°	350.1	389.4	432.1	459.4	447.7	395.0	316.9	249.8	211.0	185.5	169.5
42.5°	333.2	372.6	414.9	436.7	416.3	351.5	273.7	221.1	189.2	169.3	156.3
45°	304.3	345.9	385.1	397.1	360.8	289.4	221.3	183.2	161.9	147.2	138.2
47.5°	276.0	317.0	352.8	352.9	303.8	234.6	186.7	158.5	140.4	129.0	122.5
50°	258.7	297.6	327.6	323.0	267.2	208.7	167.0	142.7	127.6	118.7	111.9
52.5°	239.3	277.0	303.1	289.8	236.2	183.7	149.2	128.9	116.4	108.7	102.6
55°	211.0	244.5	262.9	242.7	192.7	152.8	126.1	110.1	100.8	94.3	89.0
57.5°	183.3	211.0	222.4	199.0	158.8	126.7	106.7	94.7	85.4	80.7	78.0
60°	165.9	189.5	197.6	171.7	138.0	110.8	94.5	83.3	76.4	73.4	70.7
62.5°	148.8	168.0	171.3	147.7	120.3	97.0	82.9	73.5	69.0	66.1	63.5
65°	123.4	137.3	135.7	116.6	95.2	77.0	66.8	61.0	57.6	53.5	49.0
67.5°	101.6	110.1	105.0	90.7	72.6	59.9	53.2	48.8	44.5	40.6	39.6
70°	87.8	92.7	87.3	74.1	59.6	50.2	44.8	39.6	37.1	36.2	34.5
72.5°	74.5	76.3	70.4	59.2	48.5	41.6	36.3	33.4	32.0	31.3	30.3
75°	55.9	54.7	49.7	40.9	33.7	29.0	27.3	26.3	25.3	24.6	24.1
77.5°	39.3	37.5	33.0	27.2	23.4	21.2	20.2	19.6	19.3	18.9	18.3
80°	29.5	28.3	23.8	19.4	17.8	16.7	16.2	15.4	15.4	15.1	14.6
82.5°	21.6	20.2	16.2	14.3	13.4	12.7	12.3	11.9	11.7	11.8	11.4
85°	11.3	9.2	8.1	7.8	7.2	6.8	7.1	6.7	6.7	6.7	6.5
87.5°	4.2	4.0	4.4	4.9	5.5	5.9	6.2	6.6	7.1	7.2	7.6
90°	3.9	6.7	9.4	12.1	14.5	16.6	18.5	20.5	22.5	23.8	25.0
92.5°	22.5	22.3	22.0	21.8	22.1	23.1	24.2	25.1	26.1	26.8	27.4
95°	65.0	56.7	48.5	40.2	36.9	38.7	40.4	42.2	44.0	45.2	46.4
97.5°	122.1	98.8	75.5	52.2	42.6	46.7	50.7	54.7	58.8	59.8	60.8
100°	165.1	130.8	96.5	62.2	47.2	51.4	55.7	60.0	64.2	66.2	68.2
102.5°	251.7	244.4	237.1	229.9	208.4	172.9	137.2	101.6	66.0	68.6	71.2
105°	350.0	357.5	365.0	372.6	342.1	273.8	205.4	137.0	68.8	71.5	74.2
107.5°	443.9	450.0	456.0	462.1	424.1	342.1	260.2	178.2	96.3	93.4	90.6
110°	504.4	509.6	514.9	520.1	486.6	414.2	341.9	269.5	197.2	172.1	147.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	561.4	566.1	570.8	575.4	568.8	551.0	533.1	515.2	497.3	406.0	314.7
115°	652.1	656.3	660.6	664.9	670.1	676.4	682.6	688.9	695.1	579.2	463.3
117.5°	734.0	738.7	743.5	748.2	752.7	757.0	761.4	765.6	770.0	742.0	713.9
120°	792.4	796.1	799.9	803.7	807.8	812.3	816.8	821.3	825.9	828.9	831.9
122.5°	843.1	847.1	851.0	855.0	859.4	864.3	869.2	874.1	879.0	880.8	882.6
125°	919.2	922.5	925.7	929.0	933.0	937.8	942.5	947.3	952.0	953.8	955.5
127.5°	989.2	992.8	996.4	1000.1	1003.6	1007.2	1010.7	1014.3	1017.9	1020.4	1022.9
130°	1033.8	1037.8	1041.8	1045.8	1049.2	1051.9	1054.7	1057.4	1060.2	1063.0	1065.7
132.5°	1078.2	1081.6	1085.1	1088.5	1091.5	1094.3	1097.0	1099.8	1102.6	1104.9	1107.2
135°	1137.4	1141.5	1145.4	1149.5	1152.5	1154.8	1157.1	1159.4	1161.6	1164.1	1166.6
137.5°	1195.5	1198.3	1201.1	1203.9	1206.6	1209.1	1211.7	1214.3	1216.8	1219.2	1221.7
140°	1233.4	1235.5	1237.5	1239.4	1241.8	1244.6	1247.4	1250.1	1252.8	1255.1	1257.4
142.5°	1265.7	1267.5	1269.3	1271.1	1273.6	1276.8	1279.9	1283.0	1286.2	1288.2	1290.3
145°	1314.5	1314.3	1314.1	1313.8	1315.8	1320.1	1324.4	1328.6	1332.8	1334.6	1336.3
147.5°	1358.3	1357.3	1356.4	1355.4	1357.0	1361.2	1365.5	1369.7	1373.9	1375.1	1376.5
150°	1386.3	1384.6	1382.8	1381.0	1382.2	1386.2	1390.2	1394.2	1398.2	1399.7	1401.2
152.5°	1410.5	1408.5	1406.5	1404.6	1405.5	1409.3	1413.1	1416.9	1420.7	1422.2	1423.7
155°	1445.5	1443.3	1441.0	1438.8	1439.2	1442.2	1445.2	1448.2	1451.1	1452.6	1454.1
157.5°	1473.6	1471.7	1469.8	1467.9	1468.0	1470.1	1472.2	1474.3	1476.4	1478.1	1479.8
160°	1490.2	1488.7	1487.2	1485.7	1485.7	1487.2	1488.7	1490.2	1491.7	1493.2	1494.7
162.5°	1504.7	1503.2	1501.7	1500.2	1500.0	1501.3	1502.6	1504.0	1505.2	1507.0	1508.6
165°	1524.0	1522.5	1521.0	1519.5	1519.2	1519.9	1520.6	1521.4	1522.1	1523.9	1525.7
167.5°	1538.4	1536.9	1535.4	1533.9	1533.5	1534.2	1534.9	1535.6	1536.4	1538.1	1539.8
170°	1546.6	1545.1	1543.6	1542.1	1541.5	1542.1	1542.5	1543.0	1543.6	1545.3	1547.1
172.5°	1552.0	1550.5	1549.0	1547.4	1547.0	1547.4	1547.9	1548.5	1549.0	1550.7	1552.4
175°	1558.7	1557.0	1555.2	1553.5	1552.8	1553.3	1553.8	1554.3	1554.8	1556.6	1558.3
177.5°	1560.2	1558.8	1557.4	1555.9	1555.4	1555.5	1555.8	1555.9	1556.2	1557.6	1558.9
180°	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	536.0	537.9	538.8	538.8	539.8	539.3	538.9
5°	566.8	570.2	571.0	574.2	576.6	575.8	576.2
7.5°	597.5	602.9	608.4	610.9	611.2	612.7	613.2
10°	616.3	620.8	629.2	628.0	634.3	637.9	632.0
12.5°	634.5	640.6	646.4	648.0	651.6	652.8	650.4
15°	650.9	654.1	654.4	653.6	654.7	653.7	650.3
17.5°	635.6	630.3	619.6	614.6	610.6	604.7	602.3
20°	610.2	594.7	576.7	569.5	561.1	544.5	548.5
22.5°	555.5	537.9	519.8	498.8	488.8	473.1	472.1
25°	470.4	440.0	406.5	383.1	369.4	353.8	346.9
27.5°	365.8	327.4	300.0	286.1	273.5	261.1	260.5
30°	296.9	268.2	246.9	235.0	227.3	222.0	223.2
32.5°	250.3	230.5	216.2	206.4	200.7	196.7	196.6
35°	204.6	191.1	181.9	177.8	173.6	170.8	171.0
37.5°	175.1	167.0	161.8	157.3	154.7	153.3	152.5
40°	159.9	153.3	149.3	146.6	144.5	142.5	142.1
42.5°	148.1	142.5	138.6	136.4	134.4	133.0	132.7
45°	131.3	126.8	123.3	120.9	120.0	118.7	118.7
47.5°	116.8	112.4	109.6	108.1	106.6	105.8	105.8
50°	107.1	103.6	101.2	100.2	98.9	98.5	98.2
52.5°	98.3	95.7	94.0	93.3	92.8	92.1	92.2
55°	86.3	84.9	84.2	83.7	82.8	81.7	82.4
57.5°	76.4	75.1	73.2	71.5	70.7	69.9	70.2
60°	69.3	66.8	64.2	62.3	61.7	60.1	60.1
62.5°	60.4	56.8	53.7	52.6	52.0	51.3	51.2
65°	46.4	45.0	44.3	43.6	43.2	43.2	42.9
67.5°	38.5	37.9	37.1	36.9	36.6	36.4	36.4
70°	34.0	33.3	33.0	32.7	32.4	32.6	32.0
72.5°	29.7	29.2	29.1	28.6	28.4	28.4	28.0
75°	23.4	23.4	23.2	23.1	22.7	22.5	22.7
77.5°	18.0	18.1	17.7	17.7	17.7	17.7	17.5
80°	14.4	14.6	14.4	14.2	14.0	14.2	14.0
82.5°	11.4	11.1	11.1	11.0	11.0	10.9	10.9
85°	6.5	6.7	6.5	6.3	6.3	6.3	6.5
87.5°	7.7	7.9	8.2	8.2	8.3	8.4	8.4
90°	26.3	27.6	28.4	28.9	29.4	29.9	30.4
92.5°	28.1	28.8	29.2	29.5	29.8	30.1	30.4
95°	47.7	49.0	49.4	49.2	49.0	48.7	48.5
97.5°	61.8	62.8	63.5	63.8	64.1	64.4	64.6
100°	70.3	72.2	73.5	74.0	74.5	75.0	75.5
102.5°	73.8	76.4	78.1	78.8	79.5	80.2	80.9
105°	77.0	79.8	81.6	82.6	83.7	84.6	85.6
107.5°	87.8	85.0	84.1	85.1	86.1	87.1	88.1
110°	122.1	97.0	85.0	86.0	87.0	88.0	89.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	223.3	132.0	86.7	87.5	88.3	89.1	89.9
115°	347.4	231.5	164.5	146.5	128.4	110.4	92.4
117.5°	685.9	657.8	614.2	554.9	495.7	436.4	377.2
120°	834.9	837.9	822.4	788.7	754.9	721.0	687.3
122.5°	884.5	886.2	883.8	877.3	870.8	864.2	857.6
125°	957.3	959.0	960.3	961.1	961.8	962.6	963.3
127.5°	1025.5	1028.0	1029.4	1029.5	1029.7	1029.8	1030.0
130°	1068.5	1071.2	1072.5	1072.2	1072.0	1071.7	1071.4
132.5°	1109.6	1112.0	1113.0	1112.8	1112.5	1112.3	1112.0
135°	1169.1	1171.6	1172.6	1172.1	1171.6	1171.1	1170.6
137.5°	1224.2	1226.6	1227.4	1226.5	1225.7	1224.9	1224.0
140°	1259.6	1261.9	1262.3	1261.2	1259.9	1258.6	1257.4
142.5°	1292.4	1294.4	1294.8	1293.6	1292.3	1291.1	1289.8
145°	1338.1	1339.9	1340.1	1338.9	1337.6	1336.3	1335.1
147.5°	1377.8	1379.1	1379.2	1378.2	1377.1	1376.0	1375.0
150°	1402.7	1404.2	1404.3	1403.1	1401.8	1400.6	1399.3
152.5°	1425.2	1426.7	1426.6	1425.0	1423.4	1421.7	1420.1
155°	1455.6	1457.1	1456.9	1454.9	1452.9	1450.9	1448.9
157.5°	1481.5	1483.2	1483.0	1481.1	1479.2	1477.2	1475.3
160°	1496.2	1497.7	1497.6	1495.9	1494.1	1492.3	1490.6
162.5°	1510.4	1512.0	1511.8	1509.7	1507.5	1505.4	1503.2
165°	1527.4	1529.1	1529.1	1527.4	1525.7	1523.9	1522.1
167.5°	1541.6	1543.3	1543.1	1540.9	1538.6	1536.4	1534.1
170°	1548.8	1550.5	1550.3	1548.1	1545.8	1543.6	1541.3
172.5°	1554.2	1555.9	1555.7	1553.5	1551.2	1549.0	1546.7
175°	1560.0	1561.8	1561.5	1558.9	1556.4	1553.9	1551.4
177.5°	1560.4	1561.8	1561.5	1559.7	1558.0	1556.2	1554.3
180°	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0

(END OF REPORT)