

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: P331782-935

Luminaire Tested: **S122RDIW-S290D1440U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331782-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
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-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1440 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5279.8 lumens
Efficiency: N/A
Efficacy: 98.9 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

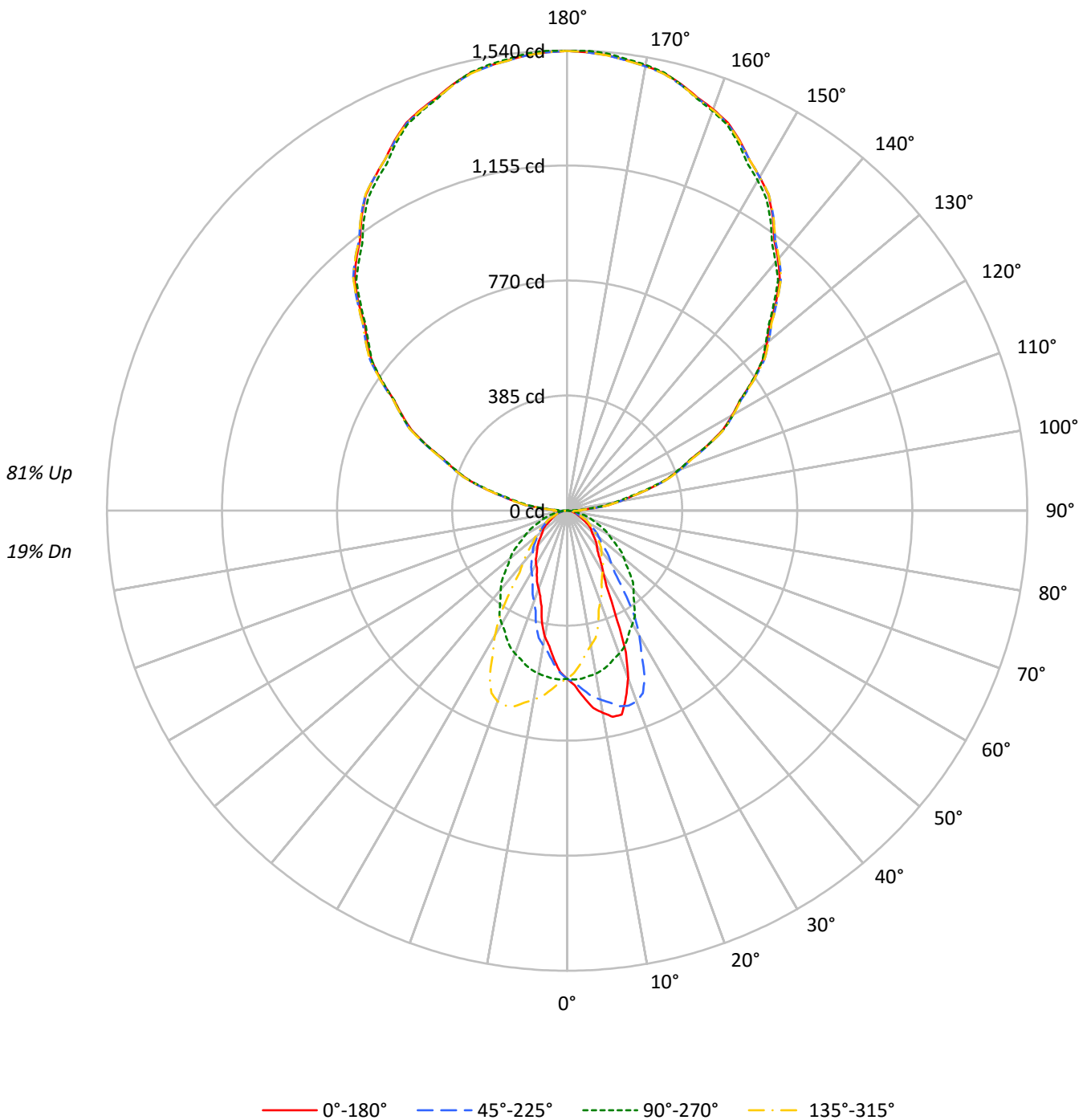
Input Watts (W): 53.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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

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	1.0
10°-20°	148.7	2.8
20°-30°	191.6	3.6
30°-40°	182.1	3.4
40°-50°	156.0	3.0
50°-60°	118.8	2.2
60°-70°	75.1	1.4
70°-80°	37.5	0.7
80°-90°	15.9	0.3
90°-100°	97.5	1.8
100°-110°	302.7	5.7
110°-120°	517.4	9.8
120°-130°	680.4	12.9
130°-140°	763.7	14.5
140°-150°	748.8	14.2
150°-160°	628.1	11.9
160°-170°	416.6	7.9
170°-180°	145.6	2.8
0°-30°	393.6	7.5
0°-40°	575.7	10.9
0°-60°	850.4	16.1
0°-90°	978.9	18.5
90°-120°	917.6	17.4
90°-150°	3110.6	58.9
90°-180°	4301.0	81.5
0°-180°	5279.8	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	9
90°	44	1	44	1	44	19
95°	80	68	80	68	80	90
105°	288	279	288	279	288	303
115°	519	519	519	519	519	513
125°	758	755	758	755	758	676
135°	989	977	989	977	989	761
145°	1199	1186	1199	1186	1199	749
155°	1367	1356	1367	1356	1367	629
165°	1477	1476	1477	1476	1477	417
175°	1530	1536	1530	1536	1530	145
180°	1538	1538	1538	1538	1538	



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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°	11.4	11.5	11.4	11.3	11.3	11.3	11.4	11.7	11.6	11.9	10.5
90°	44.2	43.8	43.6	43.3	43.0	43.1	43.7	44.3	44.9	45.5	39.1
92.5°	42.0	42.0	41.9	41.8	41.8	41.8	41.6	41.5	41.4	41.2	39.8
95°	80.5	81.0	81.6	82.2	82.7	83.1	83.1	83.1	83.1	83.1	82.5
97.5°	139.4	139.5	139.5	139.6	139.7	139.7	139.7	139.7	139.7	139.7	138.5
100°	177.8	178.1	178.4	178.7	179.0	179.1	179.1	179.1	179.1	179.1	178.2
102.5°	221.4	221.7	222.1	222.3	222.6	222.7	222.4	222.1	222.0	221.7	220.6
105°	288.2	288.2	288.2	288.2	288.2	287.8	287.3	286.7	286.1	285.6	285.0
107.5°	350.9	352.3	353.6	355.0	356.3	356.8	356.6	356.4	356.1	355.9	355.9
110°	399.8	400.6	401.5	402.3	403.2	403.7	403.7	403.7	403.7	403.7	403.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	446.5	447.1	447.8	448.4	449.0	449.7	450.4	451.1	451.8	452.5	452.7
115°	519.2	520.0	520.9	521.8	522.6	523.2	523.5	523.8	524.1	524.4	525.0
117.5°	588.5	589.4	590.2	591.1	591.9	592.8	593.5	594.2	594.9	595.6	597.1
120°	637.3	638.2	639.0	639.9	640.8	641.2	641.2	641.2	641.2	641.2	643.5
122.5°	685.1	685.7	686.4	687.0	687.6	688.3	689.0	689.7	690.3	691.0	692.7
125°	758.0	758.4	758.6	758.9	759.2	759.7	760.6	761.5	762.3	763.2	764.1
127.5°	824.5	825.4	826.3	827.2	828.2	829.1	830.2	831.2	832.2	833.4	834.4
130°	872.3	873.4	874.6	875.7	876.8	877.7	878.3	878.9	879.5	880.0	880.6
132.5°	917.9	918.9	919.8	920.8	921.6	922.7	924.0	925.3	926.5	927.8	927.7
135°	989.1	990.0	990.8	991.7	992.6	993.2	993.4	993.7	994.0	994.3	993.7
137.5°	1053.4	1054.6	1055.8	1057.0	1058.1	1058.8	1059.0	1059.2	1059.5	1059.7	1058.9
140°	1098.1	1099.2	1100.4	1101.6	1102.8	1103.3	1103.3	1103.3	1103.3	1103.3	1101.9
142.5°	1138.6	1139.8	1140.9	1142.1	1143.2	1143.7	1143.5	1143.2	1143.0	1142.8	1141.8
145°	1199.4	1200.5	1201.7	1202.8	1203.9	1204.4	1204.1	1203.9	1203.5	1203.2	1201.5
147.5°	1253.6	1254.7	1255.8	1256.9	1258.0	1258.3	1257.6	1257.0	1256.4	1255.7	1254.6
150°	1288.9	1289.8	1290.6	1291.5	1292.4	1292.4	1291.5	1290.6	1289.8	1288.9	1287.8
152.5°	1322.2	1323.3	1324.3	1325.4	1326.5	1326.5	1325.4	1324.3	1323.3	1322.2	1320.8
155°	1366.8	1367.7	1368.6	1369.4	1370.3	1369.9	1368.6	1367.1	1365.6	1364.2	1363.3
157.5°	1405.2	1406.6	1408.0	1409.4	1410.7	1410.5	1408.5	1406.5	1404.5	1402.7	1402.1
160°	1429.1	1430.3	1431.4	1432.5	1433.7	1433.4	1431.7	1429.9	1428.2	1426.5	1426.2
162.5°	1449.8	1451.3	1452.7	1454.1	1455.4	1455.1	1453.2	1451.2	1449.2	1447.3	1447.0
165°	1477.1	1478.6	1480.1	1481.4	1482.9	1482.6	1480.6	1478.6	1476.5	1474.5	1474.5
167.5°	1499.4	1501.0	1502.4	1504.0	1505.5	1505.2	1503.2	1501.2	1499.2	1497.1	1497.2
170°	1510.9	1512.6	1514.3	1516.0	1517.8	1517.7	1515.6	1513.6	1511.6	1509.6	1509.8
172.5°	1520.3	1522.0	1523.7	1525.4	1527.2	1527.0	1525.0	1522.9	1521.0	1518.9	1519.2
175°	1530.3	1532.1	1533.8	1535.5	1537.3	1537.1	1535.1	1533.1	1531.1	1529.0	1529.7
177.5°	1535.0	1536.4	1537.8	1539.2	1540.6	1540.6	1539.2	1537.8	1536.4	1535.0	1535.5
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2



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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°	9.2	8.1	6.8	5.7	5.2	4.6	4.7	4.8	4.8	5.1	5.4
90°	32.7	26.4	20.1	15.2	11.7	8.2	4.7	1.3	4.7	8.2	11.7
92.5°	38.3	36.8	35.3	33.2	30.7	28.2	25.7	23.1	25.7	28.2	30.7
95°	81.9	81.4	80.8	79.0	76.1	73.3	70.3	67.5	70.3	73.3	76.1
97.5°	137.5	136.4	135.3	133.5	131.0	128.4	125.9	123.3	125.9	128.4	131.0
100°	177.4	176.5	175.6	174.1	171.8	169.4	167.1	164.9	167.1	169.4	171.8
102.5°	219.5	218.4	217.3	215.9	214.0	212.2	210.3	208.4	210.3	212.2	214.0
105°	284.4	283.9	283.3	282.5	281.6	280.8	279.9	279.1	279.9	280.8	281.6
107.5°	355.9	355.9	355.9	355.2	354.0	352.8	351.5	350.2	351.5	352.8	354.0
110°	403.7	403.7	403.7	402.8	401.1	399.3	397.6	395.9	397.6	399.3	401.1



TEST NUMBER: P331782-935

CATALOG NUMBER: S122RDIW-S290D1440U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	453.0	453.1	453.4	452.6	450.9	449.2	447.5	445.7	447.5	449.2	450.9
115°	525.6	526.2	526.7	526.2	524.4	522.6	520.9	519.2	520.9	522.6	524.4
117.5°	598.7	600.4	602.0	601.7	599.3	597.0	594.7	592.5	594.7	597.0	599.3
120°	645.8	648.2	650.5	650.5	648.2	645.8	643.5	641.2	643.5	645.8	648.2
122.5°	694.3	695.9	697.5	697.0	694.1	691.4	688.6	685.9	688.6	691.4	694.1
125°	765.0	765.9	766.7	765.9	763.2	760.6	758.0	755.4	758.0	760.6	763.2
127.5°	835.4	836.5	837.5	836.4	833.1	829.7	826.5	823.2	826.5	829.7	833.1
130°	881.2	881.8	882.4	880.8	877.0	873.3	869.5	865.7	869.5	873.3	877.0
132.5°	927.6	927.5	927.4	925.7	922.7	919.6	916.6	913.5	916.6	919.6	922.7
135°	993.2	992.6	992.0	990.1	986.9	983.8	980.6	977.4	980.6	983.8	986.9
137.5°	1058.2	1057.5	1056.7	1055.0	1052.4	1049.8	1047.2	1044.7	1047.2	1049.8	1052.4
140°	1100.4	1099.0	1097.5	1095.5	1093.0	1090.4	1087.7	1085.1	1087.7	1090.4	1093.0
142.5°	1140.8	1139.8	1138.8	1137.0	1134.5	1131.9	1129.3	1126.7	1129.3	1131.9	1134.5
145°	1199.8	1198.1	1196.4	1194.5	1192.4	1190.4	1188.4	1186.4	1188.4	1190.4	1192.4
147.5°	1253.4	1252.2	1251.1	1249.3	1246.9	1244.4	1242.0	1239.6	1242.0	1244.4	1246.9
150°	1286.6	1285.5	1284.3	1282.9	1281.2	1279.4	1277.6	1275.9	1277.6	1279.4	1281.2
152.5°	1319.4	1318.0	1316.6	1315.1	1313.3	1311.6	1309.8	1308.1	1309.8	1311.6	1313.3
155°	1362.4	1361.6	1360.7	1359.9	1359.0	1358.1	1357.3	1356.4	1357.3	1358.1	1359.0
157.5°	1401.6	1401.1	1400.6	1400.0	1399.5	1398.9	1398.3	1397.7	1398.3	1398.9	1399.5
160°	1425.9	1425.6	1425.4	1425.0	1424.4	1423.7	1423.2	1422.6	1423.2	1423.7	1424.4
162.5°	1446.7	1446.4	1446.1	1446.0	1445.8	1445.7	1445.6	1445.4	1445.6	1445.7	1445.8
165°	1474.5	1474.5	1474.5	1474.7	1475.0	1475.2	1475.6	1475.8	1475.6	1475.2	1475.0
167.5°	1497.3	1497.3	1497.4	1497.8	1498.7	1499.5	1500.4	1501.2	1500.4	1499.5	1498.7
170°	1510.2	1510.5	1510.7	1511.3	1512.2	1513.0	1513.9	1514.8	1513.9	1513.0	1512.2
172.5°	1519.5	1519.8	1520.1	1520.7	1521.6	1522.4	1523.3	1524.1	1523.3	1522.4	1521.6
175°	1530.2	1530.8	1531.4	1532.1	1532.9	1533.8	1534.6	1535.5	1534.6	1533.8	1532.9
177.5°	1535.9	1536.4	1536.9	1537.5	1538.2	1538.9	1539.6	1540.2	1539.6	1538.9	1538.2
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2



TEST NUMBER: P331782-935

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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°	6.0	6.8	7.7	9.0	10.3	11.5	11.3	11.0	10.9	10.8	10.6
90°	15.2	20.1	26.4	32.7	39.1	45.5	44.9	44.3	43.7	43.1	43.0
92.5°	33.2	35.3	36.8	38.3	39.8	41.2	41.4	41.5	41.6	41.8	41.8
95°	79.0	80.8	81.4	81.9	82.5	83.1	83.1	83.1	83.1	83.1	82.7
97.5°	133.5	135.3	136.4	137.5	138.5	139.7	139.7	139.7	139.7	139.7	139.7
100°	174.1	175.6	176.5	177.4	178.2	179.1	179.1	179.1	179.1	179.1	179.0
102.5°	215.9	217.3	218.4	219.5	220.6	221.7	222.0	222.1	222.4	222.7	222.6
105°	282.5	283.3	283.9	284.4	285.0	285.6	286.1	286.7	287.3	287.8	288.2
107.5°	355.2	355.9	355.9	355.9	355.9	355.9	356.1	356.4	356.6	356.8	356.3
110°	402.8	403.7	403.7	403.7	403.7	403.7	403.7	403.7	403.7	403.7	403.2



TEST NUMBER: P331782-935

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	452.6	453.4	453.1	453.0	452.7	452.5	451.8	451.1	450.4	449.7	449.0
115°	526.2	526.7	526.2	525.6	525.0	524.4	524.1	523.8	523.5	523.2	522.6
117.5°	601.7	602.0	600.4	598.7	597.1	595.6	594.9	594.2	593.5	592.8	591.9
120°	650.5	650.5	648.2	645.8	643.5	641.2	641.2	641.2	641.2	641.2	640.8
122.5°	697.0	697.5	695.9	694.3	692.7	691.0	690.3	689.7	689.0	688.3	687.6
125°	765.9	766.7	765.9	765.0	764.1	763.2	762.3	761.5	760.6	759.7	759.2
127.5°	836.4	837.5	836.5	835.4	834.4	833.4	832.2	831.2	830.2	829.1	828.2
130°	880.8	882.4	881.8	881.2	880.6	880.0	879.5	878.9	878.3	877.7	876.8
132.5°	925.7	927.4	927.5	927.6	927.7	927.8	926.5	925.3	924.0	922.7	921.6
135°	990.1	992.0	992.6	993.2	993.7	994.3	994.0	993.7	993.4	993.2	992.6
137.5°	1055.0	1056.7	1057.5	1058.2	1058.9	1059.7	1059.5	1059.2	1059.0	1058.8	1058.1
140°	1095.5	1097.5	1099.0	1100.4	1101.9	1103.3	1103.3	1103.3	1103.3	1103.3	1102.8
142.5°	1137.0	1138.8	1139.8	1140.8	1141.8	1142.8	1143.0	1143.2	1143.5	1143.7	1143.2
145°	1194.5	1196.4	1198.1	1199.8	1201.5	1203.2	1203.5	1203.9	1204.1	1204.4	1203.9
147.5°	1249.3	1251.1	1252.2	1253.4	1254.6	1255.7	1256.4	1257.0	1257.6	1258.3	1258.0
150°	1282.9	1284.3	1285.5	1286.6	1287.8	1288.9	1289.8	1290.6	1291.5	1292.4	1292.4
152.5°	1315.1	1316.6	1318.0	1319.4	1320.8	1322.2	1323.3	1324.3	1325.4	1326.5	1326.5
155°	1359.9	1360.7	1361.6	1362.4	1363.3	1364.2	1365.6	1367.1	1368.6	1369.9	1370.3
157.5°	1400.0	1400.6	1401.1	1401.6	1402.1	1402.7	1404.5	1406.5	1408.5	1410.5	1410.7
160°	1425.0	1425.4	1425.6	1425.9	1426.2	1426.5	1428.2	1429.9	1431.7	1433.4	1433.7
162.5°	1446.0	1446.1	1446.4	1446.7	1447.0	1447.3	1449.2	1451.2	1453.2	1455.1	1455.4
165°	1474.7	1474.5	1474.5	1474.5	1474.5	1474.5	1476.5	1478.6	1480.6	1482.6	1482.9
167.5°	1497.8	1497.4	1497.3	1497.3	1497.2	1497.1	1499.2	1501.2	1503.2	1505.2	1505.5
170°	1511.3	1510.7	1510.5	1510.2	1509.8	1509.6	1511.6	1513.6	1515.6	1517.7	1517.8
172.5°	1520.7	1520.1	1519.8	1519.5	1519.2	1518.9	1521.0	1522.9	1525.0	1527.0	1527.2
175°	1532.1	1531.4	1530.8	1530.2	1529.7	1529.0	1531.1	1533.1	1535.1	1537.1	1537.3
177.5°	1537.5	1536.9	1536.4	1535.9	1535.5	1535.0	1536.4	1537.8	1539.2	1540.6	1540.6
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2



TEST NUMBER: P331782-935

CATALOG NUMBER: S122RDIW-S290D1440U935-4F0-1E-UDD-A1

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°	10.7	10.6	10.8	10.7	10.8	10.6	10.7	10.6	10.8	10.9	11.0
90°	43.3	43.6	43.8	44.2	43.8	43.6	43.3	43.0	43.1	43.7	44.3
92.5°	41.8	41.9	42.0	42.0	42.0	41.9	41.8	41.8	41.8	41.6	41.5
95°	82.2	81.6	81.0	80.5	81.0	81.6	82.2	82.7	83.1	83.1	83.1
97.5°	139.6	139.5	139.5	139.4	139.5	139.5	139.6	139.7	139.7	139.7	139.7
100°	178.7	178.4	178.1	177.8	178.1	178.4	178.7	179.0	179.1	179.1	179.1
102.5°	222.3	222.1	221.7	221.4	221.7	222.1	222.3	222.6	222.7	222.4	222.1
105°	288.2	288.2	288.2	288.2	288.2	288.2	288.2	288.2	287.8	287.3	286.7
107.5°	355.0	353.6	352.3	350.9	352.3	353.6	355.0	356.3	356.8	356.6	356.4
110°	402.3	401.5	400.6	399.8	400.6	401.5	402.3	403.2	403.7	403.7	403.7



TEST NUMBER: P331782-935

CATALOG NUMBER: S122RDIW-S290D1440U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	448.4	447.8	447.1	446.5	447.1	447.8	448.4	449.0	449.7	450.4	451.1
115°	521.8	520.9	520.0	519.2	520.0	520.9	521.8	522.6	523.2	523.5	523.8
117.5°	591.1	590.2	589.4	588.5	589.4	590.2	591.1	591.9	592.8	593.5	594.2
120°	639.9	639.0	638.2	637.3	638.2	639.0	639.9	640.8	641.2	641.2	641.2
122.5°	687.0	686.4	685.7	685.1	685.7	686.4	687.0	687.6	688.3	689.0	689.7
125°	758.9	758.6	758.4	758.0	758.4	758.6	758.9	759.2	759.7	760.6	761.5
127.5°	827.2	826.3	825.4	824.5	825.4	826.3	827.2	828.2	829.1	830.2	831.2
130°	875.7	874.6	873.4	872.3	873.4	874.6	875.7	876.8	877.7	878.3	878.9
132.5°	920.8	919.8	918.9	917.9	918.9	919.8	920.8	921.6	922.7	924.0	925.3
135°	991.7	990.8	990.0	989.1	990.0	990.8	991.7	992.6	993.2	993.4	993.7
137.5°	1057.0	1055.8	1054.6	1053.4	1054.6	1055.8	1057.0	1058.1	1058.8	1059.0	1059.2
140°	1101.6	1100.4	1099.2	1098.1	1099.2	1100.4	1101.6	1102.8	1103.3	1103.3	1103.3
142.5°	1142.1	1140.9	1139.8	1138.6	1139.8	1140.9	1142.1	1143.2	1143.7	1143.5	1143.2
145°	1202.8	1201.7	1200.5	1199.4	1200.5	1201.7	1202.8	1203.9	1204.4	1204.1	1203.9
147.5°	1256.9	1255.8	1254.7	1253.6	1254.7	1255.8	1256.9	1258.0	1258.3	1257.6	1257.0
150°	1291.5	1290.6	1289.8	1288.9	1289.8	1290.6	1291.5	1292.4	1292.4	1291.5	1290.6
152.5°	1325.4	1324.3	1323.3	1322.2	1323.3	1324.3	1325.4	1326.5	1326.5	1325.4	1324.3
155°	1369.4	1368.6	1367.7	1366.8	1367.7	1368.6	1369.4	1370.3	1369.9	1368.6	1367.1
157.5°	1409.4	1408.0	1406.6	1405.2	1406.6	1408.0	1409.4	1410.7	1410.5	1408.5	1406.5
160°	1432.5	1431.4	1430.3	1429.1	1430.3	1431.4	1432.5	1433.7	1433.4	1431.7	1429.9
162.5°	1454.1	1452.7	1451.3	1449.8	1451.3	1452.7	1454.1	1455.4	1455.1	1453.2	1451.2
165°	1481.4	1480.1	1478.6	1477.1	1478.6	1480.1	1481.4	1482.9	1482.6	1480.6	1478.6
167.5°	1504.0	1502.4	1501.0	1499.4	1501.0	1502.4	1504.0	1505.5	1505.2	1503.2	1501.2
170°	1516.0	1514.3	1512.6	1510.9	1512.6	1514.3	1516.0	1517.8	1517.7	1515.6	1513.6
172.5°	1525.4	1523.7	1522.0	1520.3	1522.0	1523.7	1525.4	1527.2	1527.0	1525.0	1522.9
175°	1535.5	1533.8	1532.1	1530.3	1532.1	1533.8	1535.5	1537.3	1537.1	1535.1	1533.1
177.5°	1539.2	1537.8	1536.4	1535.0	1536.4	1537.8	1539.2	1540.6	1540.6	1539.2	1537.8
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2



TEST NUMBER: P331782-935

CATALOG NUMBER: S122RDIW-S290D1440U935-4F0-1E-UDD-A1

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°	11.3	11.5	10.3	9.0	7.7	6.8	6.0	5.4	5.1	4.8	4.8
90°	44.9	45.5	39.1	32.7	26.4	20.1	15.2	11.7	8.2	4.7	1.3
92.5°	41.4	41.2	39.8	38.3	36.8	35.3	33.2	30.7	28.2	25.7	23.1
95°	83.1	83.1	82.5	81.9	81.4	80.8	79.0	76.1	73.3	70.3	67.5
97.5°	139.7	139.7	138.5	137.5	136.4	135.3	133.5	131.0	128.4	125.9	123.3
100°	179.1	179.1	178.2	177.4	176.5	175.6	174.1	171.8	169.4	167.1	164.9
102.5°	222.0	221.7	220.6	219.5	218.4	217.3	215.9	214.0	212.2	210.3	208.4
105°	286.1	285.6	285.0	284.4	283.9	283.3	282.5	281.6	280.8	279.9	279.1
107.5°	356.1	355.9	355.9	355.9	355.9	355.9	355.2	354.0	352.8	351.5	350.2
110°	403.7	403.7	403.7	403.7	403.7	403.7	402.8	401.1	399.3	397.6	395.9



TEST NUMBER: P331782-935

CATALOG NUMBER: S122RDIW-S290D1440U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	451.8	452.5	452.7	453.0	453.1	453.4	452.6	450.9	449.2	447.5	445.7
115°	524.1	524.4	525.0	525.6	526.2	526.7	526.2	524.4	522.6	520.9	519.2
117.5°	594.9	595.6	597.1	598.7	600.4	602.0	601.7	599.3	597.0	594.7	592.5
120°	641.2	641.2	643.5	645.8	648.2	650.5	650.5	648.2	645.8	643.5	641.2
122.5°	690.3	691.0	692.7	694.3	695.9	697.5	697.0	694.1	691.4	688.6	685.9
125°	762.3	763.2	764.1	765.0	765.9	766.7	765.9	763.2	760.6	758.0	755.4
127.5°	832.2	833.4	834.4	835.4	836.5	837.5	836.4	833.1	829.7	826.5	823.2
130°	879.5	880.0	880.6	881.2	881.8	882.4	880.8	877.0	873.3	869.5	865.7
132.5°	926.5	927.8	927.7	927.6	927.5	927.4	925.7	922.7	919.6	916.6	913.5
135°	994.0	994.3	993.7	993.2	992.6	992.0	990.1	986.9	983.8	980.6	977.4
137.5°	1059.5	1059.7	1058.9	1058.2	1057.5	1056.7	1055.0	1052.4	1049.8	1047.2	1044.7
140°	1103.3	1103.3	1101.9	1100.4	1099.0	1097.5	1095.5	1093.0	1090.4	1087.7	1085.1
142.5°	1143.0	1142.8	1141.8	1140.8	1139.8	1138.8	1137.0	1134.5	1131.9	1129.3	1126.7
145°	1203.5	1203.2	1201.5	1199.8	1198.1	1196.4	1194.5	1192.4	1190.4	1188.4	1186.4
147.5°	1256.4	1255.7	1254.6	1253.4	1252.2	1251.1	1249.3	1246.9	1244.4	1242.0	1239.6
150°	1289.8	1288.9	1287.8	1286.6	1285.5	1284.3	1282.9	1281.2	1279.4	1277.6	1275.9
152.5°	1323.3	1322.2	1320.8	1319.4	1318.0	1316.6	1315.1	1313.3	1311.6	1309.8	1308.1
155°	1365.6	1364.2	1363.3	1362.4	1361.6	1360.7	1359.9	1359.0	1358.1	1357.3	1356.4
157.5°	1404.5	1402.7	1402.1	1401.6	1401.1	1400.6	1400.0	1399.5	1398.9	1398.3	1397.7
160°	1428.2	1426.5	1426.2	1425.9	1425.6	1425.4	1425.0	1424.4	1423.7	1423.2	1422.6
162.5°	1449.2	1447.3	1447.0	1446.7	1446.4	1446.1	1446.0	1445.8	1445.7	1445.6	1445.4
165°	1476.5	1474.5	1474.5	1474.5	1474.5	1474.5	1474.7	1475.0	1475.2	1475.6	1475.8
167.5°	1499.2	1497.1	1497.2	1497.3	1497.3	1497.4	1497.8	1498.7	1499.5	1500.4	1501.2
170°	1511.6	1509.6	1509.8	1510.2	1510.5	1510.7	1511.3	1512.2	1513.0	1513.9	1514.8
172.5°	1521.0	1518.9	1519.2	1519.5	1519.8	1520.1	1520.7	1521.6	1522.4	1523.3	1524.1
175°	1531.1	1529.0	1529.7	1530.2	1530.8	1531.4	1532.1	1532.9	1533.8	1534.6	1535.5
177.5°	1536.4	1535.0	1535.5	1535.9	1536.4	1536.9	1537.5	1538.2	1538.9	1539.6	1540.2
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2



TEST NUMBER: P331782-935

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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°	4.7	4.6	5.2	5.7	6.8	8.1	9.2	10.5	11.9	11.6	11.7
90°	4.7	8.2	11.7	15.2	20.1	26.4	32.7	39.1	45.5	44.9	44.3
92.5°	25.7	28.2	30.7	33.2	35.3	36.8	38.3	39.8	41.2	41.4	41.5
95°	70.3	73.3	76.1	79.0	80.8	81.4	81.9	82.5	83.1	83.1	83.1
97.5°	125.9	128.4	131.0	133.5	135.3	136.4	137.5	138.5	139.7	139.7	139.7
100°	167.1	169.4	171.8	174.1	175.6	176.5	177.4	178.2	179.1	179.1	179.1
102.5°	210.3	212.2	214.0	215.9	217.3	218.4	219.5	220.6	221.7	222.0	222.1
105°	279.9	280.8	281.6	282.5	283.3	283.9	284.4	285.0	285.6	286.1	286.7
107.5°	351.5	352.8	354.0	355.2	355.9	355.9	355.9	355.9	355.9	356.1	356.4
110°	397.6	399.3	401.1	402.8	403.7	403.7	403.7	403.7	403.7	403.7	403.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	447.5	449.2	450.9	452.6	453.4	453.1	453.0	452.7	452.5	451.8	451.1
115°	520.9	522.6	524.4	526.2	526.7	526.2	525.6	525.0	524.4	524.1	523.8
117.5°	594.7	597.0	599.3	601.7	602.0	600.4	598.7	597.1	595.6	594.9	594.2
120°	643.5	645.8	648.2	650.5	650.5	648.2	645.8	643.5	641.2	641.2	641.2
122.5°	688.6	691.4	694.1	697.0	697.5	695.9	694.3	692.7	691.0	690.3	689.7
125°	758.0	760.6	763.2	765.9	766.7	765.9	765.0	764.1	763.2	762.3	761.5
127.5°	826.5	829.7	833.1	836.4	837.5	836.5	835.4	834.4	833.4	832.2	831.2
130°	869.5	873.3	877.0	880.8	882.4	881.8	881.2	880.6	880.0	879.5	878.9
132.5°	916.6	919.6	922.7	925.7	927.4	927.5	927.6	927.7	927.8	926.5	925.3
135°	980.6	983.8	986.9	990.1	992.0	992.6	993.2	993.7	994.3	994.0	993.7
137.5°	1047.2	1049.8	1052.4	1055.0	1056.7	1057.5	1058.2	1058.9	1059.7	1059.5	1059.2
140°	1087.7	1090.4	1093.0	1095.5	1097.5	1099.0	1100.4	1101.9	1103.3	1103.3	1103.3
142.5°	1129.3	1131.9	1134.5	1137.0	1138.8	1139.8	1140.8	1141.8	1142.8	1143.0	1143.2
145°	1188.4	1190.4	1192.4	1194.5	1196.4	1198.1	1199.8	1201.5	1203.2	1203.5	1203.9
147.5°	1242.0	1244.4	1246.9	1249.3	1251.1	1252.2	1253.4	1254.6	1255.7	1256.4	1257.0
150°	1277.6	1279.4	1281.2	1282.9	1284.3	1285.5	1286.6	1287.8	1288.9	1289.8	1290.6
152.5°	1309.8	1311.6	1313.3	1315.1	1316.6	1318.0	1319.4	1320.8	1322.2	1323.3	1324.3
155°	1357.3	1358.1	1359.0	1359.9	1360.7	1361.6	1362.4	1363.3	1364.2	1365.6	1367.1
157.5°	1398.3	1398.9	1399.5	1400.0	1400.6	1401.1	1401.6	1402.1	1402.7	1404.5	1406.5
160°	1423.2	1423.7	1424.4	1425.0	1425.4	1425.6	1425.9	1426.2	1426.5	1428.2	1429.9
162.5°	1445.6	1445.7	1445.8	1446.0	1446.1	1446.4	1446.7	1447.0	1447.3	1449.2	1451.2
165°	1475.6	1475.2	1475.0	1474.7	1474.5	1474.5	1474.5	1474.5	1474.5	1476.5	1478.6
167.5°	1500.4	1499.5	1498.7	1497.8	1497.4	1497.3	1497.3	1497.2	1497.1	1499.2	1501.2
170°	1513.9	1513.0	1512.2	1511.3	1510.7	1510.5	1510.2	1509.8	1509.6	1511.6	1513.6
172.5°	1523.3	1522.4	1521.6	1520.7	1520.1	1519.8	1519.5	1519.2	1518.9	1521.0	1522.9
175°	1534.6	1533.8	1532.9	1532.1	1531.4	1530.8	1530.2	1529.7	1529.0	1531.1	1533.1
177.5°	1539.6	1538.9	1538.2	1537.5	1536.9	1536.4	1535.9	1535.5	1535.0	1536.4	1537.8
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2



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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°	11.4	11.3	11.3	11.3	11.4	11.5	11.4
90°	43.7	43.1	43.0	43.3	43.6	43.8	44.2
92.5°	41.6	41.8	41.8	41.8	41.9	42.0	42.0
95°	83.1	83.1	82.7	82.2	81.6	81.0	80.5
97.5°	139.7	139.7	139.7	139.6	139.5	139.5	139.4
100°	179.1	179.1	179.0	178.7	178.4	178.1	177.8
102.5°	222.4	222.7	222.6	222.3	222.1	221.7	221.4
105°	287.3	287.8	288.2	288.2	288.2	288.2	288.2
107.5°	356.6	356.8	356.3	355.0	353.6	352.3	350.9
110°	403.7	403.7	403.2	402.3	401.5	400.6	399.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	450.4	449.7	449.0	448.4	447.8	447.1	446.5
115°	523.5	523.2	522.6	521.8	520.9	520.0	519.2
117.5°	593.5	592.8	591.9	591.1	590.2	589.4	588.5
120°	641.2	641.2	640.8	639.9	639.0	638.2	637.3
122.5°	689.0	688.3	687.6	687.0	686.4	685.7	685.1
125°	760.6	759.7	759.2	758.9	758.6	758.4	758.0
127.5°	830.2	829.1	828.2	827.2	826.3	825.4	824.5
130°	878.3	877.7	876.8	875.7	874.6	873.4	872.3
132.5°	924.0	922.7	921.6	920.8	919.8	918.9	917.9
135°	993.4	993.2	992.6	991.7	990.8	990.0	989.1
137.5°	1059.0	1058.8	1058.1	1057.0	1055.8	1054.6	1053.4
140°	1103.3	1103.3	1102.8	1101.6	1100.4	1099.2	1098.1
142.5°	1143.5	1143.7	1143.2	1142.1	1140.9	1139.8	1138.6
145°	1204.1	1204.4	1203.9	1202.8	1201.7	1200.5	1199.4
147.5°	1257.6	1258.3	1258.0	1256.9	1255.8	1254.7	1253.6
150°	1291.5	1292.4	1292.4	1291.5	1290.6	1289.8	1288.9
152.5°	1325.4	1326.5	1326.5	1325.4	1324.3	1323.3	1322.2
155°	1368.6	1369.9	1370.3	1369.4	1368.6	1367.7	1366.8
157.5°	1408.5	1410.5	1410.7	1409.4	1408.0	1406.6	1405.2
160°	1431.7	1433.4	1433.7	1432.5	1431.4	1430.3	1429.1
162.5°	1453.2	1455.1	1455.4	1454.1	1452.7	1451.3	1449.8
165°	1480.6	1482.6	1482.9	1481.4	1480.1	1478.6	1477.1
167.5°	1503.2	1505.2	1505.5	1504.0	1502.4	1501.0	1499.4
170°	1515.6	1517.7	1517.8	1516.0	1514.3	1512.6	1510.9
172.5°	1525.0	1527.0	1527.2	1525.4	1523.7	1522.0	1520.3
175°	1535.1	1537.1	1537.3	1535.5	1533.8	1532.1	1530.3
177.5°	1539.2	1540.6	1540.6	1539.2	1537.8	1536.4	1535.0
180°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2

(END OF REPORT)