

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: P331782-927

Luminaire Tested: **S122RDIW-S290D1440U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331782-927
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-S290D1440U927-4F0-1E-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: 4857.8 lumens
Efficiency: N/A
Efficacy: 91.0 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

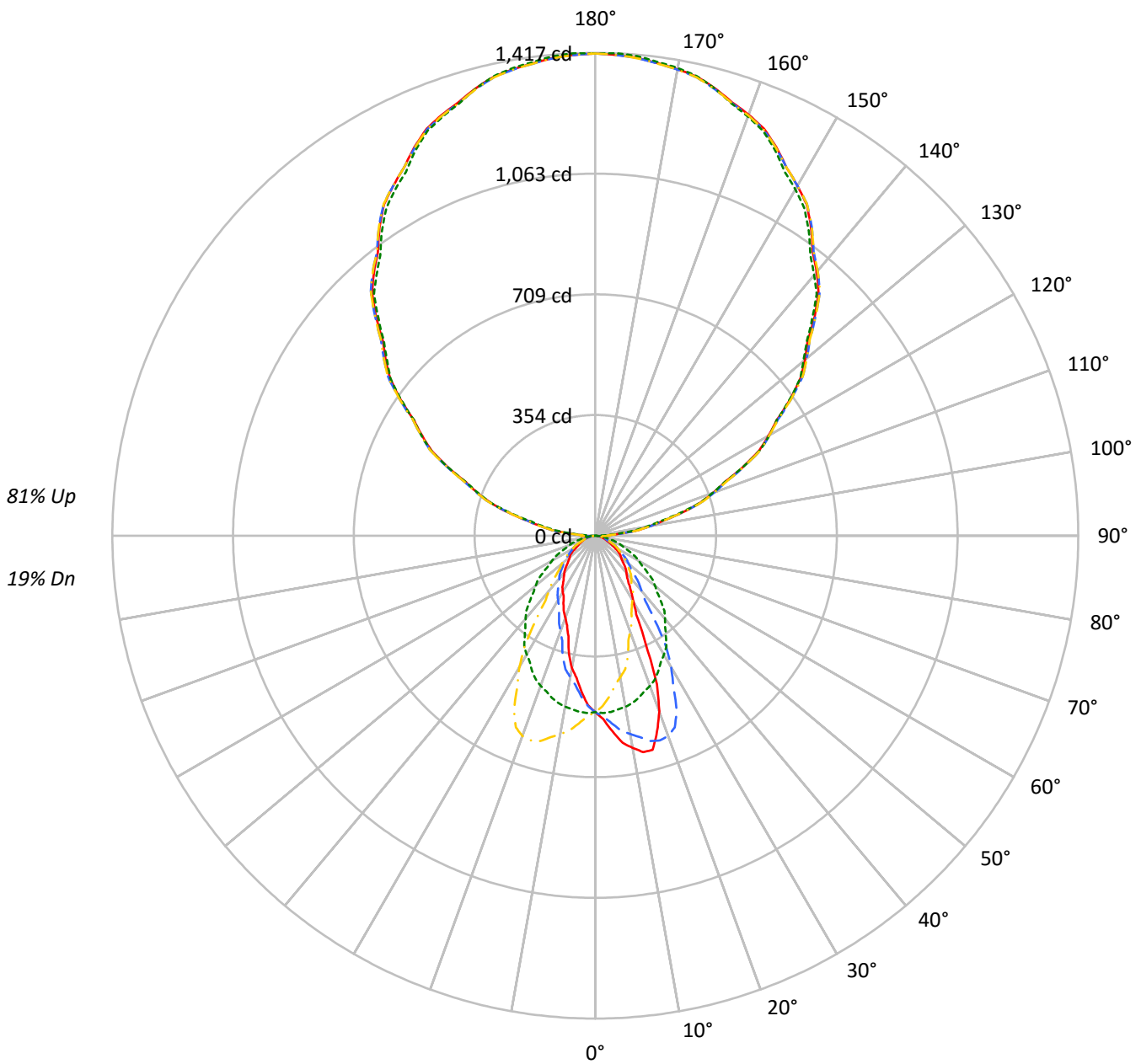
Input Watts (W): 53.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	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	1.0
10°-20°	136.8	2.8
20°-30°	176.3	3.6
30°-40°	167.5	3.4
40°-50°	143.5	3.0
50°-60°	109.3	2.2
60°-70°	69.1	1.4
70°-80°	34.5	0.7
80°-90°	14.6	0.3
90°-100°	89.7	1.8
100°-110°	278.5	5.7
110°-120°	476.1	9.8
120°-130°	626.1	12.9
130°-140°	702.7	14.5
140°-150°	689.0	14.2
150°-160°	577.9	11.9
160°-170°	383.3	7.9
170°-180°	134.0	2.8
0°-30°	362.2	7.5
0°-40°	529.7	10.9
0°-60°	782.5	16.1
0°-90°	900.7	18.5
90°-120°	844.3	17.4
90°-150°	2862.0	58.9
90°-180°	3957.0	81.5
0°-180°	4857.8	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°	41	1	41	1	41	18
95°	74	62	74	62	74	83
105°	265	257	265	257	265	279
115°	478	478	478	478	478	472
125°	697	695	697	695	697	622
135°	910	899	910	899	910	700
145°	1104	1092	1104	1092	1104	689
155°	1258	1248	1258	1248	1258	579
165°	1359	1358	1359	1358	1359	383
175°	1408	1413	1408	1413	1408	134
180°	1415	1415	1415	1415	1415	



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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°	10.5	10.5	10.5	10.4	10.4	10.4	10.5	10.8	10.7	10.9	9.7
90°	40.6	40.3	40.1	39.8	39.5	39.7	40.2	40.7	41.3	41.8	36.0
92.5°	38.7	38.7	38.6	38.5	38.5	38.4	38.3	38.2	38.1	37.9	36.6
95°	74.1	74.5	75.1	75.7	76.1	76.4	76.4	76.4	76.4	76.4	75.9
97.5°	128.3	128.3	128.3	128.4	128.5	128.5	128.5	128.5	128.5	128.5	127.5
100°	163.6	163.9	164.1	164.4	164.7	164.8	164.8	164.8	164.8	164.8	164.0
102.5°	203.7	204.0	204.3	204.5	204.8	204.9	204.6	204.4	204.2	204.0	203.0
105°	265.1	265.1	265.1	265.1	265.1	264.8	264.4	263.8	263.2	262.8	262.2
107.5°	322.9	324.2	325.3	326.6	327.8	328.3	328.1	327.9	327.6	327.5	327.5
110°	367.8	368.6	369.4	370.2	371.0	371.5	371.5	371.5	371.5	371.5	371.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	410.8	411.4	412.0	412.6	413.1	413.8	414.4	415.0	415.7	416.3	416.5
115°	477.7	478.5	479.3	480.1	480.9	481.4	481.6	482.0	482.2	482.5	483.0
117.5°	541.5	542.2	543.0	543.8	544.6	545.4	546.1	546.7	547.3	548.0	549.4
120°	586.4	587.2	588.0	588.7	589.5	589.9	589.9	589.9	589.9	589.9	592.1
122.5°	630.3	630.9	631.5	632.1	632.6	633.3	633.9	634.5	635.2	635.8	637.3
125°	697.4	697.8	698.0	698.2	698.5	699.0	699.8	700.6	701.4	702.2	703.1
127.5°	758.6	759.5	760.3	761.1	762.0	762.9	763.8	764.8	765.7	766.8	767.7
130°	802.6	803.6	804.7	805.7	806.8	807.6	808.1	808.7	809.2	809.7	810.2
132.5°	844.5	845.4	846.3	847.2	848.0	849.0	850.2	851.4	852.5	853.7	853.6
135°	910.1	910.9	911.6	912.4	913.2	913.8	914.0	914.3	914.6	914.8	914.3
137.5°	969.2	970.3	971.4	972.5	973.5	974.1	974.4	974.5	974.8	975.0	974.3
140°	1010.3	1011.4	1012.5	1013.5	1014.6	1015.1	1015.1	1015.1	1015.1	1015.1	1013.8
142.5°	1047.6	1048.7	1049.7	1050.8	1051.9	1052.3	1052.1	1051.9	1051.6	1051.5	1050.5
145°	1103.5	1104.5	1105.6	1106.7	1107.7	1108.1	1107.9	1107.6	1107.3	1107.1	1105.5
147.5°	1153.4	1154.4	1155.4	1156.4	1157.5	1157.7	1157.1	1156.5	1156.0	1155.3	1154.3
150°	1185.9	1186.7	1187.5	1188.3	1189.1	1189.1	1188.3	1187.5	1186.7	1185.9	1184.9
152.5°	1216.5	1217.5	1218.5	1219.5	1220.5	1220.5	1219.5	1218.5	1217.5	1216.5	1215.2
155°	1257.6	1258.4	1259.2	1260.0	1260.8	1260.4	1259.2	1257.8	1256.5	1255.1	1254.3
157.5°	1292.9	1294.2	1295.5	1296.7	1298.0	1297.8	1295.9	1294.1	1292.3	1290.5	1290.1
160°	1314.9	1316.0	1317.0	1318.0	1319.1	1318.8	1317.2	1315.7	1314.1	1312.5	1312.2
162.5°	1334.0	1335.3	1336.6	1337.8	1339.1	1338.8	1337.0	1335.2	1333.4	1331.6	1331.3
165°	1359.1	1360.4	1361.8	1363.0	1364.4	1364.1	1362.2	1360.4	1358.5	1356.7	1356.7
167.5°	1379.6	1381.0	1382.4	1383.8	1385.1	1384.9	1383.1	1381.2	1379.3	1377.4	1377.5
170°	1390.1	1391.7	1393.3	1394.9	1396.5	1396.4	1394.5	1392.7	1390.8	1388.9	1389.2
172.5°	1398.8	1400.3	1401.9	1403.5	1405.1	1404.9	1403.1	1401.2	1399.4	1397.5	1397.8
175°	1408.0	1409.6	1411.2	1412.8	1414.4	1414.3	1412.4	1410.6	1408.7	1406.8	1407.4
177.5°	1412.3	1413.6	1414.9	1416.2	1417.5	1417.5	1416.2	1414.9	1413.6	1412.3	1412.8
180°	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2



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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°	8.5	7.4	6.3	5.2	4.8	4.3	4.4	4.4	4.4	4.7	5.0
90°	30.1	24.3	18.5	13.9	10.8	7.5	4.4	1.2	4.4	7.5	10.8
92.5°	35.3	33.8	32.5	30.6	28.3	25.9	23.6	21.2	23.6	25.9	28.3
95°	75.3	74.9	74.3	72.7	70.0	67.4	64.7	62.1	64.7	67.4	70.0
97.5°	126.5	125.5	124.5	122.8	120.5	118.1	115.8	113.4	115.8	118.1	120.5
100°	163.2	162.4	161.6	160.2	158.0	155.9	153.8	151.7	153.8	155.9	158.0
102.5°	201.9	201.0	199.9	198.6	196.9	195.2	193.5	191.8	193.5	195.2	196.9
105°	261.7	261.2	260.6	259.9	259.1	258.3	257.5	256.7	257.5	258.3	259.1
107.5°	327.5	327.5	327.5	326.9	325.7	324.6	323.4	322.2	323.4	324.6	325.7
110°	371.5	371.5	371.5	370.6	369.0	367.4	365.8	364.2	365.8	367.4	369.0



TEST NUMBER: P331782-927

CATALOG NUMBER: S122RDIW-S290D1440U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	416.8	416.9	417.2	416.5	414.9	413.3	411.7	410.1	411.7	413.3	414.9
115°	483.5	484.1	484.6	484.1	482.5	480.9	479.3	477.7	479.3	480.9	482.5
117.5°	550.9	552.4	553.9	553.6	551.4	549.3	547.2	545.1	547.2	549.3	551.4
120°	594.2	596.4	598.5	598.5	596.4	594.2	592.1	589.9	592.1	594.2	596.4
122.5°	638.8	640.3	641.7	641.3	638.7	636.1	633.6	631.1	633.6	636.1	638.7
125°	703.9	704.6	705.4	704.6	702.2	699.8	697.4	695.1	697.4	699.8	702.2
127.5°	768.7	769.6	770.6	769.5	766.5	763.4	760.4	757.4	760.4	763.4	766.5
130°	810.8	811.3	811.8	810.4	806.9	803.5	800.0	796.5	800.0	803.5	806.9
132.5°	853.4	853.3	853.3	851.8	849.0	846.1	843.4	840.5	843.4	846.1	849.0
135°	913.8	913.2	912.7	910.9	908.0	905.1	902.2	899.3	902.2	905.1	908.0
137.5°	973.6	973.0	972.2	970.7	968.3	965.9	963.5	961.2	963.5	965.9	968.3
140°	1012.5	1011.1	1009.8	1008.0	1005.6	1003.2	1000.8	998.4	1000.8	1003.2	1005.6
142.5°	1049.6	1048.7	1047.8	1046.2	1043.8	1041.4	1039.0	1036.6	1039.0	1041.4	1043.8
145°	1103.9	1102.3	1100.7	1099.0	1097.1	1095.3	1093.4	1091.5	1093.4	1095.3	1097.1
147.5°	1153.2	1152.1	1151.1	1149.5	1147.2	1144.9	1142.7	1140.5	1142.7	1144.9	1147.2
150°	1183.8	1182.7	1181.6	1180.4	1178.8	1177.2	1175.5	1173.9	1175.5	1177.2	1178.8
152.5°	1213.9	1212.7	1211.4	1210.0	1208.3	1206.7	1205.1	1203.6	1205.1	1206.7	1208.3
155°	1253.5	1252.8	1252.0	1251.2	1250.4	1249.6	1248.8	1248.0	1248.8	1249.6	1250.4
157.5°	1289.6	1289.1	1288.6	1288.1	1287.6	1287.1	1286.5	1285.9	1286.5	1287.1	1287.6
160°	1311.9	1311.7	1311.5	1311.1	1310.5	1310.0	1309.5	1308.9	1309.5	1310.0	1310.5
162.5°	1331.1	1330.8	1330.5	1330.4	1330.2	1330.2	1330.1	1329.9	1330.1	1330.2	1330.2
165°	1356.7	1356.7	1356.7	1356.8	1357.1	1357.3	1357.6	1357.9	1357.6	1357.3	1357.1
167.5°	1377.6	1377.6	1377.7	1378.1	1378.9	1379.7	1380.5	1381.2	1380.5	1379.7	1378.9
170°	1389.5	1389.7	1390.0	1390.5	1391.3	1392.1	1392.9	1393.7	1392.9	1392.1	1391.3
172.5°	1398.0	1398.4	1398.6	1399.2	1399.9	1400.7	1401.5	1402.3	1401.5	1400.7	1399.9
175°	1407.9	1408.4	1409.0	1409.6	1410.4	1411.2	1412.0	1412.8	1412.0	1411.2	1410.4
177.5°	1413.2	1413.6	1414.0	1414.6	1415.2	1415.9	1416.5	1417.1	1416.5	1415.9	1415.2
180°	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2



TEST NUMBER: P331782-927

CATALOG NUMBER: S122RDIW-S290D1440U927-4F0-1E-UDD-A1

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°	5.5	6.3	7.1	8.3	9.5	10.5	10.4	10.1	10.1	10.0	9.7
90°	13.9	18.5	24.3	30.1	36.0	41.8	41.3	40.7	40.2	39.7	39.5
92.5°	30.6	32.5	33.8	35.3	36.6	37.9	38.1	38.2	38.3	38.4	38.5
95°	72.7	74.3	74.9	75.3	75.9	76.4	76.4	76.4	76.4	76.4	76.1
97.5°	122.8	124.5	125.5	126.5	127.5	128.5	128.5	128.5	128.5	128.5	128.5
100°	160.2	161.6	162.4	163.2	164.0	164.8	164.8	164.8	164.8	164.8	164.7
102.5°	198.6	199.9	201.0	201.9	203.0	204.0	204.2	204.4	204.6	204.9	204.8
105°	259.9	260.6	261.2	261.7	262.2	262.8	263.2	263.8	264.4	264.8	265.1
107.5°	326.9	327.5	327.5	327.5	327.5	327.5	327.6	327.9	328.1	328.3	327.8
110°	370.6	371.5	371.5	371.5	371.5	371.5	371.5	371.5	371.5	371.5	371.0



TEST NUMBER: P331782-927

CATALOG NUMBER: S122RDIW-S290D1440U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	416.5	417.2	416.9	416.8	416.5	416.3	415.7	415.0	414.4	413.8	413.1
115°	484.1	484.6	484.1	483.5	483.0	482.5	482.2	482.0	481.6	481.4	480.9
117.5°	553.6	553.9	552.4	550.9	549.4	548.0	547.3	546.7	546.1	545.4	544.6
120°	598.5	598.5	596.4	594.2	592.1	589.9	589.9	589.9	589.9	589.9	589.5
122.5°	641.3	641.7	640.3	638.8	637.3	635.8	635.2	634.5	633.9	633.3	632.6
125°	704.6	705.4	704.6	703.9	703.1	702.2	701.4	700.6	699.8	699.0	698.5
127.5°	769.5	770.6	769.6	768.7	767.7	766.8	765.7	764.8	763.8	762.9	762.0
130°	810.4	811.8	811.3	810.8	810.2	809.7	809.2	808.7	808.1	807.6	806.8
132.5°	851.8	853.3	853.3	853.4	853.6	853.7	852.5	851.4	850.2	849.0	848.0
135°	910.9	912.7	913.2	913.8	914.3	914.8	914.6	914.3	914.0	913.8	913.2
137.5°	970.7	972.2	973.0	973.6	974.3	975.0	974.8	974.5	974.4	974.1	973.5
140°	1008.0	1009.8	1011.1	1012.5	1013.8	1015.1	1015.1	1015.1	1015.1	1015.1	1014.6
142.5°	1046.2	1047.8	1048.7	1049.6	1050.5	1051.5	1051.6	1051.9	1052.1	1052.3	1051.9
145°	1099.0	1100.7	1102.3	1103.9	1105.5	1107.1	1107.3	1107.6	1107.9	1108.1	1107.7
147.5°	1149.5	1151.1	1152.1	1153.2	1154.3	1155.3	1156.0	1156.5	1157.1	1157.7	1157.5
150°	1180.4	1181.6	1182.7	1183.8	1184.9	1185.9	1186.7	1187.5	1188.3	1189.1	1189.1
152.5°	1210.0	1211.4	1212.7	1213.9	1215.2	1216.5	1217.5	1218.5	1219.5	1220.5	1220.5
155°	1251.2	1252.0	1252.8	1253.5	1254.3	1255.1	1256.5	1257.8	1259.2	1260.4	1260.8
157.5°	1288.1	1288.6	1289.1	1289.6	1290.1	1290.5	1292.3	1294.1	1295.9	1297.8	1298.0
160°	1311.1	1311.5	1311.7	1311.9	1312.2	1312.5	1314.1	1315.7	1317.2	1318.8	1319.1
162.5°	1330.4	1330.5	1330.8	1331.1	1331.3	1331.6	1333.4	1335.2	1337.0	1338.8	1339.1
165°	1356.8	1356.7	1356.7	1356.7	1356.7	1356.7	1358.5	1360.4	1362.2	1364.1	1364.4
167.5°	1378.1	1377.7	1377.6	1377.6	1377.5	1377.4	1379.3	1381.2	1383.1	1384.9	1385.1
170°	1390.5	1390.0	1389.7	1389.5	1389.2	1388.9	1390.8	1392.7	1394.5	1396.4	1396.5
172.5°	1399.2	1398.6	1398.4	1398.0	1397.8	1397.5	1399.4	1401.2	1403.1	1404.9	1405.1
175°	1409.6	1409.0	1408.4	1407.9	1407.4	1406.8	1408.7	1410.6	1412.4	1414.3	1414.4
177.5°	1414.6	1414.0	1413.6	1413.2	1412.8	1412.3	1413.6	1414.9	1416.2	1417.5	1417.5
180°	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2



TEST NUMBER: P331782-927

CATALOG NUMBER: S122RDIW-S290D1440U927-4F0-1E-UDD-A1

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°	9.8	9.7	9.9	9.8	9.9	9.7	9.8	9.7	10.0	10.1	10.1
90°	39.8	40.1	40.3	40.6	40.3	40.1	39.8	39.5	39.7	40.2	40.7
92.5°	38.5	38.6	38.7	38.7	38.7	38.6	38.5	38.5	38.4	38.3	38.2
95°	75.7	75.1	74.5	74.1	74.5	75.1	75.7	76.1	76.4	76.4	76.4
97.5°	128.4	128.3	128.3	128.3	128.3	128.3	128.4	128.5	128.5	128.5	128.5
100°	164.4	164.1	163.9	163.6	163.9	164.1	164.4	164.7	164.8	164.8	164.8
102.5°	204.5	204.3	204.0	203.7	204.0	204.3	204.5	204.8	204.9	204.6	204.4
105°	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	264.8	264.4	263.8
107.5°	326.6	325.3	324.2	322.9	324.2	325.3	326.6	327.8	328.3	328.1	327.9
110°	370.2	369.4	368.6	367.8	368.6	369.4	370.2	371.0	371.5	371.5	371.5



TEST NUMBER: P331782-927

CATALOG NUMBER: S122RDIW-S290D1440U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	412.6	412.0	411.4	410.8	411.4	412.0	412.6	413.1	413.8	414.4	415.0
115°	480.1	479.3	478.5	477.7	478.5	479.3	480.1	480.9	481.4	481.6	482.0
117.5°	543.8	543.0	542.2	541.5	542.2	543.0	543.8	544.6	545.4	546.1	546.7
120°	588.7	588.0	587.2	586.4	587.2	588.0	588.7	589.5	589.9	589.9	589.9
122.5°	632.1	631.5	630.9	630.3	630.9	631.5	632.1	632.6	633.3	633.9	634.5
125°	698.2	698.0	697.8	697.4	697.8	698.0	698.2	698.5	699.0	699.8	700.6
127.5°	761.1	760.3	759.5	758.6	759.5	760.3	761.1	762.0	762.9	763.8	764.8
130°	805.7	804.7	803.6	802.6	803.6	804.7	805.7	806.8	807.6	808.1	808.7
132.5°	847.2	846.3	845.4	844.5	845.4	846.3	847.2	848.0	849.0	850.2	851.4
135°	912.4	911.6	910.9	910.1	910.9	911.6	912.4	913.2	913.8	914.0	914.3
137.5°	972.5	971.4	970.3	969.2	970.3	971.4	972.5	973.5	974.1	974.4	974.5
140°	1013.5	1012.5	1011.4	1010.3	1011.4	1012.5	1013.5	1014.6	1015.1	1015.1	1015.1
142.5°	1050.8	1049.7	1048.7	1047.6	1048.7	1049.7	1050.8	1051.9	1052.3	1052.1	1051.9
145°	1106.7	1105.6	1104.5	1103.5	1104.5	1105.6	1106.7	1107.7	1108.1	1107.9	1107.6
147.5°	1156.4	1155.4	1154.4	1153.4	1154.4	1155.4	1156.4	1157.5	1157.7	1157.1	1156.5
150°	1188.3	1187.5	1186.7	1185.9	1186.7	1187.5	1188.3	1189.1	1189.1	1188.3	1187.5
152.5°	1219.5	1218.5	1217.5	1216.5	1217.5	1218.5	1219.5	1220.5	1220.5	1219.5	1218.5
155°	1260.0	1259.2	1258.4	1257.6	1258.4	1259.2	1260.0	1260.8	1260.4	1259.2	1257.8
157.5°	1296.7	1295.5	1294.2	1292.9	1294.2	1295.5	1296.7	1298.0	1297.8	1295.9	1294.1
160°	1318.0	1317.0	1316.0	1314.9	1316.0	1317.0	1318.0	1319.1	1318.8	1317.2	1315.7
162.5°	1337.8	1336.6	1335.3	1334.0	1335.3	1336.6	1337.8	1339.1	1338.8	1337.0	1335.2
165°	1363.0	1361.8	1360.4	1359.1	1360.4	1361.8	1363.0	1364.4	1364.1	1362.2	1360.4
167.5°	1383.8	1382.4	1381.0	1379.6	1381.0	1382.4	1383.8	1385.1	1384.9	1383.1	1381.2
170°	1394.9	1393.3	1391.7	1390.1	1391.7	1393.3	1394.9	1396.5	1396.4	1394.5	1392.7
172.5°	1403.5	1401.9	1400.3	1398.8	1400.3	1401.9	1403.5	1405.1	1404.9	1403.1	1401.2
175°	1412.8	1411.2	1409.6	1408.0	1409.6	1411.2	1412.8	1414.4	1414.3	1412.4	1410.6
177.5°	1416.2	1414.9	1413.6	1412.3	1413.6	1414.9	1416.2	1417.5	1417.5	1416.2	1414.9
180°	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2



TEST NUMBER: P331782-927

CATALOG NUMBER: S122RDIW-S290D1440U927-4F0-1E-UDD-A1

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°	10.4	10.5	9.5	8.3	7.1	6.3	5.5	5.0	4.7	4.4	4.4
90°	41.3	41.8	36.0	30.1	24.3	18.5	13.9	10.8	7.5	4.4	1.2
92.5°	38.1	37.9	36.6	35.3	33.8	32.5	30.6	28.3	25.9	23.6	21.2
95°	76.4	76.4	75.9	75.3	74.9	74.3	72.7	70.0	67.4	64.7	62.1
97.5°	128.5	128.5	127.5	126.5	125.5	124.5	122.8	120.5	118.1	115.8	113.4
100°	164.8	164.8	164.0	163.2	162.4	161.6	160.2	158.0	155.9	153.8	151.7
102.5°	204.2	204.0	203.0	201.9	201.0	199.9	198.6	196.9	195.2	193.5	191.8
105°	263.2	262.8	262.2	261.7	261.2	260.6	259.9	259.1	258.3	257.5	256.7
107.5°	327.6	327.5	327.5	327.5	327.5	327.5	326.9	325.7	324.6	323.4	322.2
110°	371.5	371.5	371.5	371.5	371.5	371.5	370.6	369.0	367.4	365.8	364.2



TEST NUMBER: P331782-927

CATALOG NUMBER: S122RDIW-S290D1440U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	415.7	416.3	416.5	416.8	416.9	417.2	416.5	414.9	413.3	411.7	410.1
115°	482.2	482.5	483.0	483.5	484.1	484.6	484.1	482.5	480.9	479.3	477.7
117.5°	547.3	548.0	549.4	550.9	552.4	553.9	553.6	551.4	549.3	547.2	545.1
120°	589.9	589.9	592.1	594.2	596.4	598.5	598.5	596.4	594.2	592.1	589.9
122.5°	635.2	635.8	637.3	638.8	640.3	641.7	641.3	638.7	636.1	633.6	631.1
125°	701.4	702.2	703.1	703.9	704.6	705.4	704.6	702.2	699.8	697.4	695.1
127.5°	765.7	766.8	767.7	768.7	769.6	770.6	769.5	766.5	763.4	760.4	757.4
130°	809.2	809.7	810.2	810.8	811.3	811.8	810.4	806.9	803.5	800.0	796.5
132.5°	852.5	853.7	853.6	853.4	853.3	853.3	851.8	849.0	846.1	843.4	840.5
135°	914.6	914.8	914.3	913.8	913.2	912.7	910.9	908.0	905.1	902.2	899.3
137.5°	974.8	975.0	974.3	973.6	973.0	972.2	970.7	968.3	965.9	963.5	961.2
140°	1015.1	1015.1	1013.8	1012.5	1011.1	1009.8	1008.0	1005.6	1003.2	1000.8	998.4
142.5°	1051.6	1051.5	1050.5	1049.6	1048.7	1047.8	1046.2	1043.8	1041.4	1039.0	1036.6
145°	1107.3	1107.1	1105.5	1103.9	1102.3	1100.7	1099.0	1097.1	1095.3	1093.4	1091.5
147.5°	1156.0	1155.3	1154.3	1153.2	1152.1	1151.1	1149.5	1147.2	1144.9	1142.7	1140.5
150°	1186.7	1185.9	1184.9	1183.8	1182.7	1181.6	1180.4	1178.8	1177.2	1175.5	1173.9
152.5°	1217.5	1216.5	1215.2	1213.9	1212.7	1211.4	1210.0	1208.3	1206.7	1205.1	1203.6
155°	1256.5	1255.1	1254.3	1253.5	1252.8	1252.0	1251.2	1250.4	1249.6	1248.8	1248.0
157.5°	1292.3	1290.5	1290.1	1289.6	1289.1	1288.6	1288.1	1287.6	1287.1	1286.5	1285.9
160°	1314.1	1312.5	1312.2	1311.9	1311.7	1311.5	1311.1	1310.5	1310.0	1309.5	1308.9
162.5°	1333.4	1331.6	1331.3	1331.1	1330.8	1330.5	1330.4	1330.2	1330.2	1330.1	1329.9
165°	1358.5	1356.7	1356.7	1356.7	1356.7	1356.7	1356.8	1357.1	1357.3	1357.6	1357.9
167.5°	1379.3	1377.4	1377.5	1377.6	1377.6	1377.7	1378.1	1378.9	1379.7	1380.5	1381.2
170°	1390.8	1388.9	1389.2	1389.5	1389.7	1390.0	1390.5	1391.3	1392.1	1392.9	1393.7
172.5°	1399.4	1397.5	1397.8	1398.0	1398.4	1398.6	1399.2	1399.9	1400.7	1401.5	1402.3
175°	1408.7	1406.8	1407.4	1407.9	1408.4	1409.0	1409.6	1410.4	1411.2	1412.0	1412.8
177.5°	1413.6	1412.3	1412.8	1413.2	1413.6	1414.0	1414.6	1415.2	1415.9	1416.5	1417.1
180°	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2



TEST NUMBER: P331782-927

CATALOG NUMBER: S122RDIW-S290D1440U927-4F0-1E-UDD-A1

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°	4.4	4.3	4.8	5.2	6.3	7.4	8.5	9.7	10.9	10.7	10.8
90°	4.4	7.5	10.8	13.9	18.5	24.3	30.1	36.0	41.8	41.3	40.7
92.5°	23.6	25.9	28.3	30.6	32.5	33.8	35.3	36.6	37.9	38.1	38.2
95°	64.7	67.4	70.0	72.7	74.3	74.9	75.3	75.9	76.4	76.4	76.4
97.5°	115.8	118.1	120.5	122.8	124.5	125.5	126.5	127.5	128.5	128.5	128.5
100°	153.8	155.9	158.0	160.2	161.6	162.4	163.2	164.0	164.8	164.8	164.8
102.5°	193.5	195.2	196.9	198.6	199.9	201.0	201.9	203.0	204.0	204.2	204.4
105°	257.5	258.3	259.1	259.9	260.6	261.2	261.7	262.2	262.8	263.2	263.8
107.5°	323.4	324.6	325.7	326.9	327.5	327.5	327.5	327.5	327.5	327.6	327.9
110°	365.8	367.4	369.0	370.6	371.5	371.5	371.5	371.5	371.5	371.5	371.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	411.7	413.3	414.9	416.5	417.2	416.9	416.8	416.5	416.3	415.7	415.0
115°	479.3	480.9	482.5	484.1	484.6	484.1	483.5	483.0	482.5	482.2	482.0
117.5°	547.2	549.3	551.4	553.6	553.9	552.4	550.9	549.4	548.0	547.3	546.7
120°	592.1	594.2	596.4	598.5	598.5	596.4	594.2	592.1	589.9	589.9	589.9
122.5°	633.6	636.1	638.7	641.3	641.7	640.3	638.8	637.3	635.8	635.2	634.5
125°	697.4	699.8	702.2	704.6	705.4	704.6	703.9	703.1	702.2	701.4	700.6
127.5°	760.4	763.4	766.5	769.5	770.6	769.6	768.7	767.7	766.8	765.7	764.8
130°	800.0	803.5	806.9	810.4	811.8	811.3	810.8	810.2	809.7	809.2	808.7
132.5°	843.4	846.1	849.0	851.8	853.3	853.3	853.4	853.6	853.7	852.5	851.4
135°	902.2	905.1	908.0	910.9	912.7	913.2	913.8	914.3	914.8	914.6	914.3
137.5°	963.5	965.9	968.3	970.7	972.2	973.0	973.6	974.3	975.0	974.8	974.5
140°	1000.8	1003.2	1005.6	1008.0	1009.8	1011.1	1012.5	1013.8	1015.1	1015.1	1015.1
142.5°	1039.0	1041.4	1043.8	1046.2	1047.8	1048.7	1049.6	1050.5	1051.5	1051.6	1051.9
145°	1093.4	1095.3	1097.1	1099.0	1100.7	1102.3	1103.9	1105.5	1107.1	1107.3	1107.6
147.5°	1142.7	1144.9	1147.2	1149.5	1151.1	1152.1	1153.2	1154.3	1155.3	1156.0	1156.5
150°	1175.5	1177.2	1178.8	1180.4	1181.6	1182.7	1183.8	1184.9	1185.9	1186.7	1187.5
152.5°	1205.1	1206.7	1208.3	1210.0	1211.4	1212.7	1213.9	1215.2	1216.5	1217.5	1218.5
155°	1248.8	1249.6	1250.4	1251.2	1252.0	1252.8	1253.5	1254.3	1255.1	1256.5	1257.8
157.5°	1286.5	1287.1	1287.6	1288.1	1288.6	1289.1	1289.6	1290.1	1290.5	1292.3	1294.1
160°	1309.5	1310.0	1310.5	1311.1	1311.5	1311.7	1311.9	1312.2	1312.5	1314.1	1315.7
162.5°	1330.1	1330.2	1330.2	1330.4	1330.5	1330.8	1331.1	1331.3	1331.6	1333.4	1335.2
165°	1357.6	1357.3	1357.1	1356.8	1356.7	1356.7	1356.7	1356.7	1356.7	1358.5	1360.4
167.5°	1380.5	1379.7	1378.9	1378.1	1377.7	1377.6	1377.6	1377.5	1377.4	1379.3	1381.2
170°	1392.9	1392.1	1391.3	1390.5	1390.0	1389.7	1389.5	1389.2	1388.9	1390.8	1392.7
172.5°	1401.5	1400.7	1399.9	1399.2	1398.6	1398.4	1398.0	1397.8	1397.5	1399.4	1401.2
175°	1412.0	1411.2	1410.4	1409.6	1409.0	1408.4	1407.9	1407.4	1406.8	1408.7	1410.6
177.5°	1416.5	1415.9	1415.2	1414.6	1414.0	1413.6	1413.2	1412.8	1412.3	1413.6	1414.9
180°	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2



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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°	10.5	10.4	10.4	10.4	10.5	10.5	10.5
90°	40.2	39.7	39.5	39.8	40.1	40.3	40.6
92.5°	38.3	38.4	38.5	38.5	38.6	38.7	38.7
95°	76.4	76.4	76.1	75.7	75.1	74.5	74.1
97.5°	128.5	128.5	128.5	128.4	128.3	128.3	128.3
100°	164.8	164.8	164.7	164.4	164.1	163.9	163.6
102.5°	204.6	204.9	204.8	204.5	204.3	204.0	203.7
105°	264.4	264.8	265.1	265.1	265.1	265.1	265.1
107.5°	328.1	328.3	327.8	326.6	325.3	324.2	322.9
110°	371.5	371.5	371.0	370.2	369.4	368.6	367.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	414.4	413.8	413.1	412.6	412.0	411.4	410.8
115°	481.6	481.4	480.9	480.1	479.3	478.5	477.7
117.5°	546.1	545.4	544.6	543.8	543.0	542.2	541.5
120°	589.9	589.9	589.5	588.7	588.0	587.2	586.4
122.5°	633.9	633.3	632.6	632.1	631.5	630.9	630.3
125°	699.8	699.0	698.5	698.2	698.0	697.8	697.4
127.5°	763.8	762.9	762.0	761.1	760.3	759.5	758.6
130°	808.1	807.6	806.8	805.7	804.7	803.6	802.6
132.5°	850.2	849.0	848.0	847.2	846.3	845.4	844.5
135°	914.0	913.8	913.2	912.4	911.6	910.9	910.1
137.5°	974.4	974.1	973.5	972.5	971.4	970.3	969.2
140°	1015.1	1015.1	1014.6	1013.5	1012.5	1011.4	1010.3
142.5°	1052.1	1052.3	1051.9	1050.8	1049.7	1048.7	1047.6
145°	1107.9	1108.1	1107.7	1106.7	1105.6	1104.5	1103.5
147.5°	1157.1	1157.7	1157.5	1156.4	1155.4	1154.4	1153.4
150°	1188.3	1189.1	1189.1	1188.3	1187.5	1186.7	1185.9
152.5°	1219.5	1220.5	1220.5	1219.5	1218.5	1217.5	1216.5
155°	1259.2	1260.4	1260.8	1260.0	1259.2	1258.4	1257.6
157.5°	1295.9	1297.8	1298.0	1296.7	1295.5	1294.2	1292.9
160°	1317.2	1318.8	1319.1	1318.0	1317.0	1316.0	1314.9
162.5°	1337.0	1338.8	1339.1	1337.8	1336.6	1335.3	1334.0
165°	1362.2	1364.1	1364.4	1363.0	1361.8	1360.4	1359.1
167.5°	1383.1	1384.9	1385.1	1383.8	1382.4	1381.0	1379.6
170°	1394.5	1396.4	1396.5	1394.9	1393.3	1391.7	1390.1
172.5°	1403.1	1404.9	1405.1	1403.5	1401.9	1400.3	1398.8
175°	1412.4	1414.3	1414.4	1412.8	1411.2	1409.6	1408.0
177.5°	1416.2	1417.5	1417.5	1416.2	1414.9	1413.6	1412.3
180°	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2

(END OF REPORT)