

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: P331782-930

Luminaire Tested: **S122RDIW-S290D1440U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331782-930  
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-S290D1440U930-4F0-1E-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**

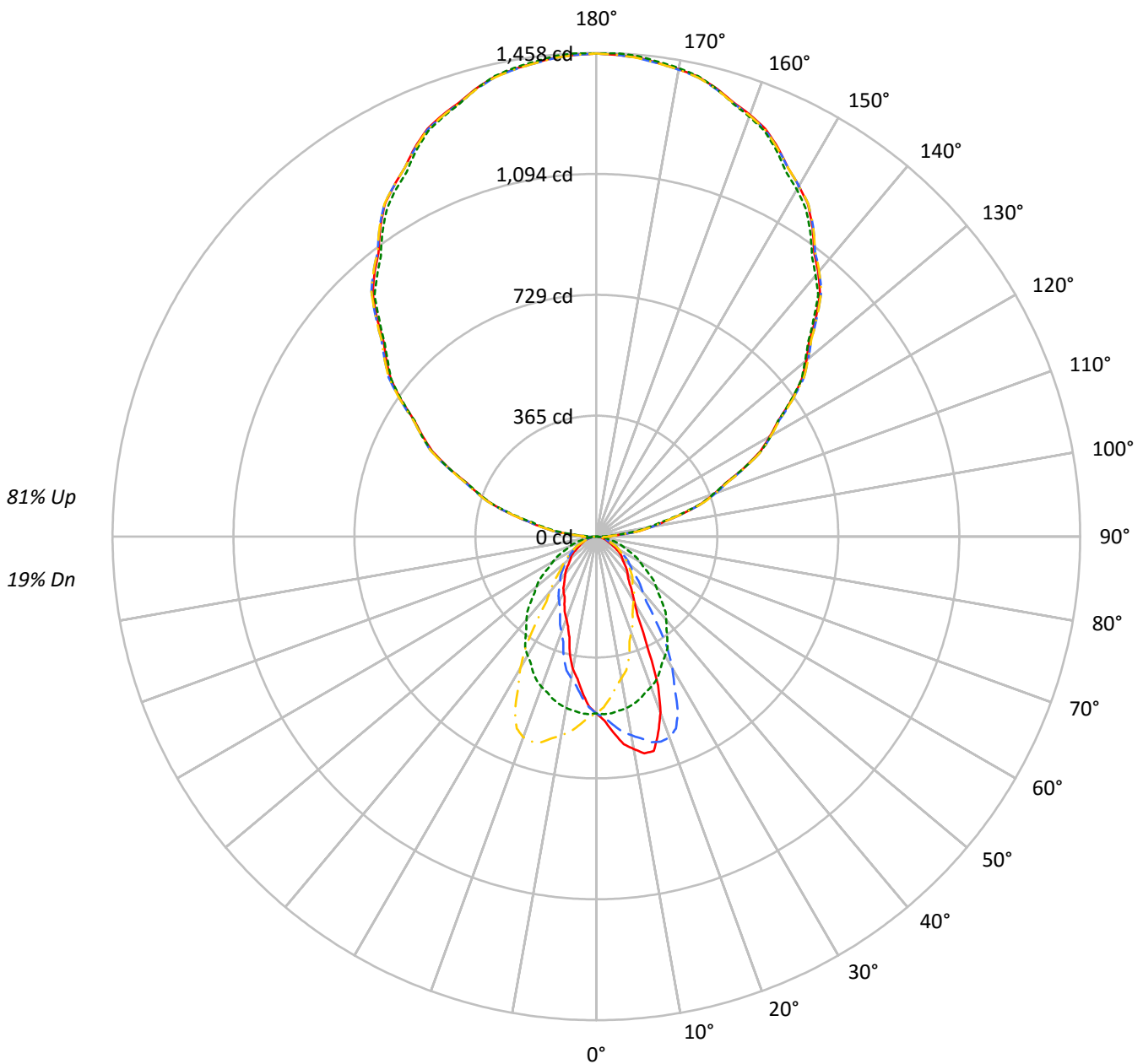
Lumens per Lamp: N/A  
Luminaire Lumens: 4999.6 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 53.4  
Input Voltage (V): 120  
Input Current (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



TEST NUMBER: P331782-930

CATALOG NUMBER: S122RDIW-S290D1440U930-4F0-1E-UDD-A1

### Luminous Intensity Polar Plot



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



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CATALOG NUMBER: S122RDIW-S290D1440U930-4F0-1E-UDD-A1

**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°	8606	8606	8606	8606
5°	9611	8660	7679	8660
10°	10663	8599	6655	8599
15°	11188	8473	5244	8473
20°	9699	8285	4538	8285
25°	6360	8031	4051	8031
30°	4282	7720	3667	7720
35°	3467	7330	3307	7330
40°	3084	6905	3060	6905
45°	2790	6405	2731	6405
50°	2539	5913	2532	5913
55°	2387	5362	2356	5362
60°	1999	4863	1973	4863
65°	1685	4413	1910	4413
70°	1553	3942	1803	3942
75°	1454	3431	1666	3431
80°	1339	2827	1478	2827
85°	1241	2242	1297	2242



TEST NUMBER: P331782-930

CATALOG NUMBER: S122RDIW-S290D1440U930-4F0-1E-UDD-A1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.5	1.0
10°-20°	140.8	2.8
20°-30°	181.4	3.6
30°-40°	172.4	3.4
40°-50°	147.7	3.0
50°-60°	112.5	2.2
60°-70°	71.1	1.4
70°-80°	35.5	0.7
80°-90°	15.1	0.3
90°-100°	92.3	1.8
100°-110°	286.6	5.7
110°-120°	490.0	9.8
120°-130°	644.3	12.9
130°-140°	723.2	14.5
140°-150°	709.1	14.2
150°-160°	594.8	11.9
160°-170°	394.5	7.9
170°-180°	137.9	2.8
0°-30°	372.7	7.5
0°-40°	545.1	10.9
0°-60°	805.3	16.1
0°-90°	926.9	18.5
90°-120°	868.9	17.4
90°-150°	2945.5	58.9
90°-180°	4073.0	81.5
0°-180°	4999.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	533	533	533	533	533	
5°	593	534	474	534	593	59
15°	669	507	314	507	669	181
25°	357	451	227	451	357	169
35°	176	372	168	372	176	113
45°	122	280	120	280	122	95
55°	85	190	84	190	85	74
65°	44	116	50	116	44	45
75°	23	55	27	55	23	25
85°	7	12	7	12	7	8
90°	42	1	42	1	42	18
95°	76	64	76	64	76	85
105°	273	264	273	264	273	287
115°	492	492	492	492	492	486
125°	718	715	718	715	718	640
135°	937	926	937	926	937	721
145°	1136	1123	1136	1123	1136	709
155°	1294	1284	1294	1284	1294	596
165°	1399	1398	1399	1398	1399	394
175°	1449	1454	1449	1454	1449	138
180°	1456	1456	1456	1456	1456	



TEST NUMBER: P331782-930

CATALOG NUMBER: S122RDIW-S290D1440U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
2.5°	554.6	555.1	555.5	554.5	554.5	553.6	551.6	550.2	546.0	545.4	545.4
5°	593.0	592.6	593.4	590.9	587.7	586.9	583.3	578.7	573.9	568.6	567.4
7.5°	631.1	630.6	629.1	628.7	626.1	620.5	614.9	608.9	600.9	593.0	589.1
10°	650.4	656.6	652.8	646.4	647.6	639.0	634.3	626.3	619.6	608.0	605.4
12.5°	669.4	671.8	670.6	666.9	665.3	659.3	653.0	646.0	633.7	623.3	614.2
15°	669.3	672.8	673.8	672.6	673.5	673.2	669.8	664.1	653.4	641.9	631.9
17.5°	619.9	622.3	628.4	632.5	637.7	648.7	654.1	656.2	654.6	648.0	641.0
20°	564.5	560.4	577.5	586.1	593.5	612.0	628.0	634.1	643.9	643.8	641.9
22.5°	485.9	486.9	503.0	513.4	535.0	553.6	571.7	594.7	613.7	626.2	633.6
25°	357.0	364.1	380.2	394.3	418.3	452.8	484.1	520.4	554.6	581.7	607.5
27.5°	268.2	268.7	281.4	294.5	308.8	337.0	376.4	419.7	468.6	508.9	555.2
30°	229.7	228.5	233.9	241.9	254.1	276.0	305.6	348.1	396.9	457.6	511.7
32.5°	202.4	202.4	206.5	212.4	222.5	237.3	257.6	292.2	338.2	397.9	461.3
35°	175.9	175.8	178.7	183.0	187.2	196.7	210.6	228.7	260.4	316.1	380.9
37.5°	156.9	157.8	159.2	161.9	166.6	171.9	180.2	192.4	214.9	247.9	302.4
40°	146.3	146.7	148.7	150.9	153.7	157.8	164.6	174.5	190.9	217.2	257.1
42.5°	136.6	136.9	138.4	140.4	142.6	146.7	152.4	160.9	174.2	194.7	227.6
45°	122.2	122.2	123.5	124.4	126.9	130.5	135.2	142.3	151.5	166.6	188.5
47.5°	108.8	108.8	109.7	111.3	112.8	115.7	120.3	126.0	132.7	144.5	163.1
50°	101.1	101.3	101.8	103.1	104.1	106.6	110.2	115.2	122.2	131.3	146.8
52.5°	94.9	94.8	95.5	96.0	96.7	98.5	101.2	105.6	111.9	119.8	132.6
55°	84.8	84.1	85.2	86.1	86.7	87.4	88.9	91.6	97.0	103.7	113.3
57.5°	72.2	71.9	72.7	73.5	75.3	77.3	78.6	80.3	83.1	87.9	97.4
60°	61.9	61.9	63.5	64.1	66.1	68.7	71.3	72.8	75.6	78.7	85.8
62.5°	52.7	52.8	53.6	54.1	55.3	58.5	62.1	65.4	68.0	71.0	75.7
65°	44.1	44.4	44.4	44.8	45.6	46.3	47.8	50.4	55.0	59.3	62.8
67.5°	37.4	37.5	37.7	38.0	38.2	39.0	39.6	40.8	41.8	45.8	50.2
70°	32.9	33.5	33.3	33.7	33.9	34.2	35.0	35.5	37.3	38.2	40.8
72.5°	28.8	29.2	29.2	29.4	29.9	30.0	30.6	31.1	32.2	32.9	34.4
75°	23.3	23.2	23.3	23.7	23.9	24.1	24.1	24.8	25.4	26.1	27.1
77.5°	18.0	18.2	18.2	18.2	18.3	18.6	18.5	18.8	19.4	19.8	20.2
80°	14.4	14.6	14.4	14.6	14.8	15.0	14.8	15.0	15.6	15.9	15.9
82.5°	11.2	11.3	11.3	11.3	11.4	11.4	11.7	11.7	12.1	12.1	12.2
85°	6.7	6.5	6.5	6.5	6.7	6.8	6.7	6.7	6.8	6.8	6.8
87.5°	10.8	10.8	10.8	10.7	10.7	10.7	10.8	11.1	11.0	11.3	9.9
90°	41.8	41.5	41.3	41.0	40.7	40.8	41.4	41.9	42.5	43.0	37.0
92.5°	39.8	39.8	39.7	39.6	39.6	39.5	39.4	39.3	39.2	39.1	37.7
95°	76.2	76.7	77.3	77.9	78.4	78.7	78.7	78.7	78.7	78.7	78.1
97.5°	132.0	132.1	132.1	132.2	132.2	132.2	132.2	132.2	132.2	132.2	131.2
100°	168.4	168.7	168.9	169.2	169.5	169.6	169.6	169.6	169.6	169.6	168.8
102.5°	209.7	209.9	210.3	210.5	210.8	210.8	210.6	210.3	210.2	209.9	208.9
105°	272.9	272.9	272.9	272.9	272.9	272.6	272.1	271.5	270.9	270.4	269.9
107.5°	332.3	333.6	334.8	336.1	337.4	337.9	337.7	337.5	337.2	337.0	337.0
110°	378.5	379.4	380.2	381.0	381.8	382.3	382.3	382.3	382.3	382.3	382.3



TEST NUMBER: P331782-930

CATALOG NUMBER: S122RDIW-S290D1440U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	422.8	423.4	424.0	424.6	425.2	425.8	426.5	427.1	427.8	428.4	428.7
115°	491.6	492.4	493.3	494.1	494.9	495.5	495.7	496.0	496.3	496.6	497.1
117.5°	557.3	558.1	558.9	559.7	560.5	561.3	562.0	562.6	563.3	563.9	565.4
120°	603.5	604.3	605.1	605.9	606.7	607.2	607.2	607.2	607.2	607.2	609.4
122.5°	648.7	649.3	650.0	650.5	651.1	651.8	652.4	653.1	653.7	654.4	655.9
125°	717.8	718.1	718.4	718.6	718.9	719.4	720.2	721.1	721.9	722.7	723.6
127.5°	780.7	781.6	782.4	783.3	784.2	785.1	786.1	787.1	788.1	789.1	790.1
130°	826.0	827.0	828.2	829.2	830.3	831.1	831.7	832.3	832.8	833.3	833.9
132.5°	869.2	870.1	871.0	871.9	872.7	873.8	875.0	876.2	877.3	878.6	878.5
135°	936.6	937.4	938.2	939.1	939.9	940.4	940.7	940.9	941.3	941.5	940.9
137.5°	997.5	998.7	999.7	1000.9	1001.9	1002.6	1002.8	1003.0	1003.2	1003.5	1002.7
140°	1039.8	1040.9	1042.0	1043.1	1044.2	1044.7	1044.7	1044.7	1044.7	1044.7	1043.4
142.5°	1078.2	1079.3	1080.4	1081.5	1082.6	1083.0	1082.8	1082.6	1082.3	1082.1	1081.2
145°	1135.7	1136.8	1137.9	1139.0	1140.0	1140.4	1140.2	1140.0	1139.6	1139.4	1137.8
147.5°	1187.1	1188.1	1189.1	1190.2	1191.2	1191.5	1190.8	1190.3	1189.7	1189.0	1188.0
150°	1220.5	1221.3	1222.1	1222.9	1223.8	1223.8	1222.9	1222.1	1221.3	1220.5	1219.4
152.5°	1252.0	1253.0	1254.0	1255.1	1256.1	1256.1	1255.1	1254.0	1253.0	1252.0	1250.7
155°	1294.3	1295.1	1295.9	1296.7	1297.5	1297.2	1295.9	1294.5	1293.1	1291.8	1290.9
157.5°	1330.6	1332.0	1333.3	1334.6	1335.9	1335.6	1333.7	1331.9	1330.0	1328.2	1327.7
160°	1353.2	1354.4	1355.4	1356.5	1357.6	1357.3	1355.7	1354.0	1352.4	1350.8	1350.5
162.5°	1372.9	1374.3	1375.6	1376.9	1378.2	1377.9	1376.1	1374.2	1372.3	1370.4	1370.2
165°	1398.7	1400.1	1401.5	1402.8	1404.2	1403.9	1402.0	1400.1	1398.2	1396.3	1396.3
167.5°	1419.8	1421.3	1422.7	1424.2	1425.6	1425.3	1423.4	1421.5	1419.6	1417.6	1417.7
170°	1430.7	1432.3	1433.9	1435.6	1437.2	1437.1	1435.2	1433.3	1431.3	1429.5	1429.7
172.5°	1439.6	1441.2	1442.8	1444.5	1446.1	1445.9	1444.1	1442.1	1440.2	1438.3	1438.6
175°	1449.1	1450.7	1452.4	1454.0	1455.7	1455.6	1453.6	1451.7	1449.8	1447.9	1448.5
177.5°	1453.5	1454.8	1456.2	1457.5	1458.8	1458.8	1457.5	1456.2	1454.8	1453.5	1454.0
180°	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5



TEST NUMBER: P331782-930

CATALOG NUMBER: S122RDIW-S290D1440U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
2.5°	545.8	544.5	543.5	540.9	539.5	536.5	536.1	536.0	532.1	528.4	527.3
5°	564.5	561.5	557.1	551.9	546.5	541.0	537.3	534.3	526.8	519.8	515.8
7.5°	583.3	577.0	569.3	559.5	551.3	542.2	535.3	529.2	518.7	508.6	501.8
10°	597.5	587.1	576.9	563.4	552.8	542.4	532.8	524.5	512.7	499.3	489.8
12.5°	606.2	594.8	580.7	567.5	553.8	540.6	527.7	517.1	503.1	489.3	478.2
15°	618.0	605.8	588.7	569.8	552.3	535.0	520.2	506.9	488.8	472.2	458.5
17.5°	627.7	610.8	592.6	570.7	550.3	528.5	509.4	492.4	472.1	452.2	436.1
20°	630.8	614.1	593.0	571.1	547.1	521.3	500.8	482.2	460.6	438.9	420.4
22.5°	628.8	615.9	592.4	566.2	541.6	514.7	491.5	469.9	445.9	423.8	402.4
25°	615.8	611.3	589.1	560.6	532.5	501.2	474.3	450.8	423.4	399.7	376.3
27.5°	585.3	594.9	581.1	550.7	519.4	485.9	455.7	428.9	400.5	373.8	350.6
30°	556.0	578.0	572.1	543.9	508.9	476.0	442.1	414.1	383.8	356.3	333.4
32.5°	515.8	552.2	558.0	534.4	498.2	462.0	426.5	398.7	367.0	338.1	315.7
35°	451.8	506.3	531.3	516.3	480.0	440.9	404.3	371.9	340.0	311.5	289.3
37.5°	375.6	449.8	491.5	492.5	459.2	418.6	378.6	346.4	313.8	285.8	261.8
40°	326.1	406.5	460.8	472.8	444.7	400.8	360.4	327.6	295.8	268.3	240.8
42.5°	281.7	361.7	428.4	449.4	427.1	383.4	342.9	308.7	277.7	251.8	223.6
45°	227.8	297.8	371.3	408.7	396.3	356.0	313.2	280.5	251.5	229.1	202.0
47.5°	192.2	241.5	312.7	363.2	363.1	326.2	284.1	252.9	225.9	204.9	183.0
50°	171.9	214.8	275.0	332.4	337.2	306.3	266.3	235.4	210.2	188.2	170.6
52.5°	153.6	189.1	243.1	298.2	311.9	285.1	246.3	217.8	193.3	173.0	158.0
55°	129.8	157.3	198.4	249.8	270.6	251.7	217.2	190.5	170.7	153.7	140.7
57.5°	109.8	130.4	163.4	204.8	228.9	217.1	188.7	167.0	150.0	134.6	124.4
60°	97.3	114.1	142.0	176.7	203.3	195.0	170.7	150.6	136.2	122.8	113.2
62.5°	85.4	99.9	123.8	152.0	176.3	172.9	153.1	136.2	123.5	111.4	103.2
65°	68.7	79.2	98.0	120.0	139.7	141.3	127.0	115.5	104.3	94.7	87.4
67.5°	54.7	61.6	74.8	93.4	108.0	113.3	104.6	95.8	86.8	79.4	73.1
70°	46.1	51.7	61.3	76.3	89.8	95.4	90.3	83.5	75.7	69.6	64.2
72.5°	37.3	42.8	49.9	60.9	72.5	78.5	76.7	71.8	65.6	60.4	55.4
75°	28.1	29.8	34.7	42.1	51.1	56.3	57.6	55.0	50.0	46.1	43.1
77.5°	20.8	21.9	24.1	28.0	33.9	38.6	40.4	40.1	36.7	34.5	31.6
80°	16.6	17.2	18.3	20.0	24.5	29.1	30.4	30.4	28.0	27.1	24.3
82.5°	12.6	13.0	13.8	14.7	16.7	20.8	22.3	22.5	21.0	19.8	17.6
85°	7.3	7.0	7.4	8.0	8.3	9.5	11.7	12.1	11.7	10.2	9.6
87.5°	8.7	7.7	6.4	5.4	4.9	4.4	4.5	4.6	4.6	4.8	5.1
90°	31.0	25.0	19.0	14.3	11.1	7.7	4.5	1.2	4.5	7.7	11.1
92.5°	36.3	34.8	33.4	31.5	29.1	26.7	24.3	21.9	24.3	26.7	29.1
95°	77.5	77.0	76.5	74.8	72.1	69.4	66.6	63.9	66.6	69.4	72.1
97.5°	130.2	129.1	128.1	126.4	124.0	121.6	119.2	116.8	119.2	121.6	124.0
100°	168.0	167.1	166.3	164.9	162.7	160.5	158.2	156.1	158.2	160.5	162.7
102.5°	207.8	206.8	205.8	204.4	202.6	200.9	199.2	197.4	199.2	200.9	202.6
105°	269.3	268.8	268.2	267.5	266.7	265.9	265.1	264.2	265.1	265.9	266.7
107.5°	337.0	337.0	337.0	336.4	335.3	334.0	332.8	331.6	332.8	334.0	335.3
110°	382.3	382.3	382.3	381.4	379.8	378.1	376.5	374.9	376.5	378.1	379.8





TEST NUMBER: P331782-930

CATALOG NUMBER: S122RDIW-S290D1440U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	428.9	429.1	429.3	428.6	427.0	425.3	423.7	422.1	423.7	425.3	427.0
115°	497.7	498.2	498.7	498.2	496.6	494.9	493.3	491.6	493.3	494.9	496.6
117.5°	567.0	568.5	570.1	569.7	567.5	565.3	563.1	561.0	563.1	565.3	567.5
120°	611.6	613.8	616.0	616.0	613.8	611.6	609.4	607.2	609.4	611.6	613.8
122.5°	657.5	659.0	660.5	660.0	657.3	654.7	652.1	649.5	652.1	654.7	657.3
125°	724.4	725.2	726.0	725.2	722.7	720.2	717.8	715.3	717.8	720.2	722.7
127.5°	791.1	792.1	793.0	792.0	788.9	785.7	782.6	779.5	782.6	785.7	788.9
130°	834.5	834.9	835.5	834.1	830.5	827.0	823.4	819.8	823.4	827.0	830.5
132.5°	878.3	878.2	878.2	876.6	873.8	870.8	868.0	865.0	868.0	870.8	873.8
135°	940.4	939.9	939.3	937.5	934.5	931.6	928.5	925.5	928.5	931.6	934.5
137.5°	1002.0	1001.4	1000.6	999.0	996.5	994.1	991.6	989.2	991.6	994.1	996.5
140°	1042.0	1040.6	1039.3	1037.4	1034.9	1032.5	1030.0	1027.5	1030.0	1032.5	1034.9
142.5°	1080.3	1079.3	1078.4	1076.7	1074.2	1071.8	1069.3	1066.9	1069.3	1071.8	1074.2
145°	1136.1	1134.5	1132.9	1131.1	1129.1	1127.2	1125.4	1123.4	1125.4	1127.2	1129.1
147.5°	1186.8	1185.8	1184.7	1183.0	1180.7	1178.4	1176.1	1173.8	1176.1	1178.4	1180.7
150°	1218.3	1217.2	1216.1	1214.8	1213.2	1211.5	1209.8	1208.2	1209.8	1211.5	1213.2
152.5°	1249.4	1248.1	1246.8	1245.3	1243.6	1241.9	1240.3	1238.7	1240.3	1241.9	1243.6
155°	1290.1	1289.3	1288.5	1287.7	1286.9	1286.1	1285.2	1284.4	1285.2	1286.1	1286.9
157.5°	1327.2	1326.7	1326.2	1325.7	1325.2	1324.6	1324.0	1323.5	1324.0	1324.6	1325.2
160°	1350.2	1350.0	1349.7	1349.3	1348.7	1348.2	1347.7	1347.1	1347.7	1348.2	1348.7
162.5°	1369.9	1369.6	1369.4	1369.2	1369.1	1369.0	1368.9	1368.7	1368.9	1369.0	1369.1
165°	1396.3	1396.3	1396.3	1396.4	1396.7	1396.9	1397.3	1397.5	1397.3	1396.9	1396.7
167.5°	1417.8	1417.8	1417.9	1418.3	1419.1	1419.9	1420.7	1421.6	1420.7	1419.9	1419.1
170°	1430.0	1430.3	1430.5	1431.1	1431.9	1432.7	1433.5	1434.4	1433.5	1432.7	1431.9
172.5°	1438.8	1439.2	1439.4	1440.0	1440.8	1441.6	1442.4	1443.2	1442.4	1441.6	1440.8
175°	1448.9	1449.5	1450.1	1450.7	1451.6	1452.4	1453.2	1454.0	1453.2	1452.4	1451.6
177.5°	1454.4	1454.8	1455.3	1455.9	1456.5	1457.2	1457.8	1458.5	1457.8	1457.2	1456.5
180°	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5



TEST NUMBER: P331782-930

CATALOG NUMBER: S122RDIW-S290D1440U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
2.5°	525.5	524.4	522.4	519.5	517.7	514.6	512.6	513.7	514.0	513.7	513.5
5°	511.4	507.4	502.1	496.8	492.0	486.9	483.9	482.7	480.0	478.6	477.8
7.5°	494.2	487.5	480.0	470.9	463.3	455.2	451.1	449.1	443.8	440.9	438.4
10°	481.5	470.9	463.3	451.5	444.3	433.7	426.5	426.7	419.5	415.4	412.5
12.5°	467.4	455.8	443.2	432.5	422.5	414.0	405.3	401.8	394.1	390.2	382.2
15°	444.1	430.6	417.3	402.8	392.6	379.4	366.9	351.5	339.1	328.3	325.4
17.5°	418.7	401.9	388.5	371.5	354.1	332.0	317.4	308.4	301.0	295.3	291.1
20°	401.1	384.1	369.8	344.3	320.7	305.7	295.1	288.1	280.4	274.3	270.9
22.5°	382.8	365.0	345.5	317.0	298.6	286.7	277.1	269.2	263.9	259.2	256.1
25°	356.7	337.2	305.2	285.6	270.8	258.1	251.5	246.7	241.2	234.6	231.7
27.5°	329.1	298.2	275.2	260.6	246.5	238.3	232.3	225.1	220.1	217.2	214.1
30°	308.5	277.6	259.7	243.7	233.7	224.6	217.6	213.5	208.7	203.7	201.7
32.5°	285.6	260.9	243.6	230.4	220.2	212.5	206.9	200.3	196.9	193.8	189.6
35°	257.1	238.3	222.6	211.9	202.2	195.9	189.5	185.6	179.3	176.7	175.0
37.5°	232.9	216.7	205.0	193.6	186.0	179.0	175.0	168.8	166.2	162.5	159.0
40°	219.2	203.3	192.1	182.8	174.2	169.1	164.1	159.1	155.0	153.4	149.1
42.5°	205.4	192.4	181.1	171.0	165.3	159.7	153.4	149.8	145.5	142.8	140.2
45°	186.1	174.6	165.0	156.7	150.3	144.6	140.6	134.4	132.1	126.7	124.4
47.5°	169.3	158.6	149.4	141.5	135.3	131.6	125.6	120.8	117.0	113.7	110.8
50°	157.3	148.3	139.4	132.4	126.9	121.5	115.4	113.0	107.0	105.3	103.7
52.5°	146.3	137.8	129.7	122.8	117.2	112.0	106.6	103.5	99.5	97.8	96.6
55°	130.9	122.8	115.0	108.9	103.4	98.0	94.7	90.7	88.9	87.6	86.1
57.5°	115.5	108.2	102.2	96.0	90.4	86.2	82.3	80.0	78.1	76.4	74.6
60°	105.7	98.7	93.4	87.6	81.9	78.4	75.4	72.6	70.4	67.8	67.0
62.5°	95.4	89.2	84.3	78.7	73.7	70.5	67.7	65.1	62.4	58.6	57.6
65°	81.1	76.3	71.1	66.4	62.0	58.9	54.8	51.9	50.7	50.4	50.2
67.5°	68.2	63.7	59.2	54.5	50.5	47.5	45.4	45.0	44.2	44.0	43.5
70°	59.6	55.4	51.0	46.5	42.6	42.1	41.3	40.5	39.6	39.3	38.9
72.5°	51.9	47.5	43.0	39.5	37.8	37.2	36.4	35.6	35.1	34.7	34.5
75°	39.8	35.7	32.8	31.5	30.6	30.0	28.9	28.4	28.0	27.4	27.2
77.5°	28.7	26.3	25.0	24.2	23.2	22.7	22.0	21.4	21.0	21.0	20.6
80°	21.9	20.7	19.8	18.7	18.3	17.6	17.4	16.9	17.0	16.5	16.5
82.5°	17.0	15.6	14.8	14.3	13.9	13.3	13.1	12.9	12.9	12.5	12.5
85°	8.7	8.3	8.0	7.6	7.6	7.0	7.3	7.0	7.0	6.7	6.5
87.5°	5.7	6.4	7.3	8.6	9.8	10.8	10.7	10.4	10.4	10.3	10.0
90°	14.3	19.0	25.0	31.0	37.0	43.0	42.5	41.9	41.4	40.8	40.7
92.5°	31.5	33.4	34.8	36.3	37.7	39.1	39.2	39.3	39.4	39.5	39.6
95°	74.8	76.5	77.0	77.5	78.1	78.7	78.7	78.7	78.7	78.7	78.4
97.5°	126.4	128.1	129.1	130.2	131.2	132.2	132.2	132.2	132.2	132.2	132.2
100°	164.9	166.3	167.1	168.0	168.8	169.6	169.6	169.6	169.6	169.6	169.5
102.5°	204.4	205.8	206.8	207.8	208.9	209.9	210.2	210.3	210.6	210.8	210.8
105°	267.5	268.2	268.8	269.3	269.9	270.4	270.9	271.5	272.1	272.6	272.9
107.5°	336.4	337.0	337.0	337.0	337.0	337.0	337.2	337.5	337.7	337.9	337.4
110°	381.4	382.3	382.3	382.3	382.3	382.3	382.3	382.3	382.3	382.3	381.8



TEST NUMBER: P331782-930

CATALOG NUMBER: S122RDIW-S290D1440U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	428.6	429.3	429.1	428.9	428.7	428.4	427.8	427.1	426.5	425.8	425.2
115°	498.2	498.7	498.2	497.7	497.1	496.6	496.3	496.0	495.7	495.5	494.9
117.5°	569.7	570.1	568.5	567.0	565.4	563.9	563.3	562.6	562.0	561.3	560.5
120°	616.0	616.0	613.8	611.6	609.4	607.2	607.2	607.2	607.2	607.2	606.7
122.5°	660.0	660.5	659.0	657.5	655.9	654.4	653.7	653.1	652.4	651.8	651.1
125°	725.2	726.0	725.2	724.4	723.6	722.7	721.9	721.1	720.2	719.4	718.9
127.5°	792.0	793.0	792.1	791.1	790.1	789.1	788.1	787.1	786.1	785.1	784.2
130°	834.1	835.5	834.9	834.5	833.9	833.3	832.8	832.3	831.7	831.1	830.3
132.5°	876.6	878.2	878.2	878.3	878.5	878.6	877.3	876.2	875.0	873.8	872.7
135°	937.5	939.3	939.9	940.4	940.9	941.5	941.3	940.9	940.7	940.4	939.9
137.5°	999.0	1000.6	1001.4	1002.0	1002.7	1003.5	1003.2	1003.0	1002.8	1002.6	1001.9
140°	1037.4	1039.3	1040.6	1042.0	1043.4	1044.7	1044.7	1044.7	1044.7	1044.7	1044.2
142.5°	1076.7	1078.4	1079.3	1080.3	1081.2	1082.1	1082.3	1082.6	1082.8	1083.0	1082.6
145°	1131.1	1132.9	1134.5	1136.1	1137.8	1139.4	1139.6	1140.0	1140.2	1140.4	1140.0
147.5°	1183.0	1184.7	1185.8	1186.8	1188.0	1189.0	1189.7	1190.3	1190.8	1191.5	1191.2
150°	1214.8	1216.1	1217.2	1218.3	1219.4	1220.5	1221.3	1222.1	1222.9	1223.8	1223.8
152.5°	1245.3	1246.8	1248.1	1249.4	1250.7	1252.0	1253.0	1254.0	1255.1	1256.1	1256.1
155°	1287.7	1288.5	1289.3	1290.1	1290.9	1291.8	1293.1	1294.5	1295.9	1297.2	1297.5
157.5°	1325.7	1326.2	1326.7	1327.2	1327.7	1328.2	1330.0	1331.9	1333.7	1335.6	1335.9
160°	1349.3	1349.7	1350.0	1350.2	1350.5	1350.8	1352.4	1354.0	1355.7	1357.3	1357.6
162.5°	1369.2	1369.4	1369.6	1369.9	1370.2	1370.4	1372.3	1374.2	1376.1	1377.9	1378.2
165°	1396.4	1396.3	1396.3	1396.3	1396.3	1396.3	1398.2	1400.1	1402.0	1403.9	1404.2
167.5°	1418.3	1417.9	1417.8	1417.8	1417.7	1417.6	1419.6	1421.5	1423.4	1425.3	1425.6
170°	1431.1	1430.5	1430.3	1430.0	1429.7	1429.5	1431.3	1433.3	1435.2	1437.1	1437.2
172.5°	1440.0	1439.4	1439.2	1438.8	1438.6	1438.3	1440.2	1442.1	1444.1	1445.9	1446.1
175°	1450.7	1450.1	1449.5	1448.9	1448.5	1447.9	1449.8	1451.7	1453.6	1455.6	1455.7
177.5°	1455.9	1455.3	1454.8	1454.4	1454.0	1453.5	1454.8	1456.2	1457.5	1458.8	1458.8
180°	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5



TEST NUMBER: P331782-930

CATALOG NUMBER: S122RDIW-S290D1440U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
2.5°	511.8	512.1	511.7	511.9	511.7	512.1	511.8	513.5	513.7	514.0	513.7
5°	476.9	474.7	474.3	473.8	474.3	474.7	476.9	477.8	478.6	480.0	482.7
7.5°	435.2	434.9	433.9	432.6	433.9	434.9	435.2	438.4	440.9	443.8	449.1
10°	408.4	407.4	407.2	405.9	407.2	407.4	408.4	412.5	415.4	419.5	426.7
12.5°	376.9	371.0	370.4	367.1	370.4	371.0	376.9	382.2	390.2	394.1	401.8
15°	321.0	319.8	316.1	313.7	316.1	319.8	321.0	325.4	328.3	339.1	351.5
17.5°	288.9	285.3	284.1	283.6	284.1	285.3	288.9	291.1	295.3	301.0	308.4
20°	268.3	265.1	264.5	264.1	264.5	265.1	268.3	270.9	274.3	280.4	288.1
22.5°	254.1	250.6	249.2	248.1	249.2	250.6	254.1	256.1	259.2	263.9	269.2
25°	229.8	228.5	227.8	227.4	227.8	228.5	229.8	231.7	234.6	241.2	246.7
27.5°	210.8	208.0	207.4	206.4	207.4	208.0	210.8	214.1	217.2	220.1	225.1
30°	200.0	199.1	197.8	196.7	197.8	199.1	200.0	201.7	203.7	208.7	213.5
32.5°	187.3	186.5	185.3	184.8	185.3	186.5	187.3	189.6	193.8	196.9	200.3
35°	173.2	170.6	169.4	167.8	169.4	170.6	173.2	175.0	176.7	179.3	185.6
37.5°	158.2	156.9	155.3	155.9	155.3	156.9	158.2	159.0	162.5	166.2	168.8
40°	146.7	145.8	145.4	145.2	145.4	145.8	146.7	149.1	153.4	155.0	159.1
42.5°	137.5	134.9	134.0	134.0	134.0	134.9	137.5	140.2	142.8	145.5	149.8
45°	123.5	121.2	119.4	119.6	119.4	121.2	123.5	124.4	126.7	132.1	134.4
47.5°	109.3	109.2	108.1	108.4	108.1	109.2	109.3	110.8	113.7	117.0	120.8
50°	102.4	101.3	100.5	100.8	100.5	101.3	102.4	103.7	105.3	107.0	113.0
52.5°	95.9	94.9	94.3	95.1	94.3	94.9	95.9	96.6	97.8	99.5	103.5
55°	85.2	84.1	83.9	83.7	83.9	84.1	85.2	86.1	87.6	88.9	90.7
57.5°	73.2	72.5	71.3	70.9	71.3	72.5	73.2	74.6	76.4	78.1	80.0
60°	64.7	63.2	61.3	61.1	61.3	63.2	64.7	67.0	67.8	70.4	72.6
62.5°	56.7	56.5	56.1	56.1	56.1	56.5	56.7	57.6	58.6	62.4	65.1
65°	49.8	49.7	49.8	50.0	49.8	49.7	49.8	50.2	50.4	50.7	51.9
67.5°	43.4	43.0	42.7	42.9	42.7	43.0	43.4	43.5	44.0	44.2	45.0
70°	38.5	38.3	38.2	38.2	38.2	38.3	38.5	38.9	39.3	39.6	40.5
72.5°	33.8	33.8	33.6	33.4	33.6	33.8	33.8	34.5	34.7	35.1	35.6
75°	27.1	26.7	26.7	26.7	26.7	26.7	27.1	27.2	27.4	28.0	28.4
77.5°	20.6	20.4	20.2	20.1	20.2	20.4	20.6	20.6	21.0	21.0	21.4
80°	16.3	16.1	15.9	15.9	15.9	16.1	16.3	16.5	16.5	17.0	16.9
82.5°	12.5	12.2	12.2	12.1	12.2	12.2	12.5	12.5	12.5	12.9	12.9
85°	6.7	6.8	6.7	7.0	6.7	6.8	6.7	6.5	6.7	7.0	7.0
87.5°	10.1	10.0	10.2	10.1	10.2	10.0	10.1	10.0	10.3	10.4	10.4
90°	41.0	41.3	41.5	41.8	41.5	41.3	41.0	40.7	40.8	41.4	41.9
92.5°	39.6	39.7	39.8	39.8	39.8	39.7	39.6	39.6	39.5	39.4	39.3
95°	77.9	77.3	76.7	76.2	76.7	77.3	77.9	78.4	78.7	78.7	78.7
97.5°	132.2	132.1	132.1	132.0	132.1	132.1	132.2	132.2	132.2	132.2	132.2
100°	169.2	168.9	168.7	168.4	168.7	168.9	169.2	169.5	169.6	169.6	169.6
102.5°	210.5	210.3	209.9	209.7	209.9	210.3	210.5	210.8	210.8	210.6	210.3
105°	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.6	272.1	271.5
107.5°	336.1	334.8	333.6	332.3	333.6	334.8	336.1	337.4	337.9	337.7	337.5
110°	381.0	380.2	379.4	378.5	379.4	380.2	381.0	381.8	382.3	382.3	382.3



TEST NUMBER: P331782-930

CATALOG NUMBER: S122RDIW-S290D1440U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	424.6	424.0	423.4	422.8	423.4	424.0	424.6	425.2	425.8	426.5	427.1
115°	494.1	493.3	492.4	491.6	492.4	493.3	494.1	494.9	495.5	495.7	496.0
117.5°	559.7	558.9	558.1	557.3	558.1	558.9	559.7	560.5	561.3	562.0	562.6
120°	605.9	605.1	604.3	603.5	604.3	605.1	605.9	606.7	607.2	607.2	607.2
122.5°	650.5	650.0	649.3	648.7	649.3	650.0	650.5	651.1	651.8	652.4	653.1
125°	718.6	718.4	718.1	717.8	718.1	718.4	718.6	718.9	719.4	720.2	721.1
127.5°	783.3	782.4	781.6	780.7	781.6	782.4	783.3	784.2	785.1	786.1	787.1
130°	829.2	828.2	827.0	826.0	827.0	828.2	829.2	830.3	831.1	831.7	832.3
132.5°	871.9	871.0	870.1	869.2	870.1	871.0	871.9	872.7	873.8	875.0	876.2
135°	939.1	938.2	937.4	936.6	937.4	938.2	939.1	939.9	940.4	940.7	940.9
137.5°	1000.9	999.7	998.7	997.5	998.7	999.7	1000.9	1001.9	1002.6	1002.8	1003.0
140°	1043.1	1042.0	1040.9	1039.8	1040.9	1042.0	1043.1	1044.2	1044.7	1044.7	1044.7
142.5°	1081.5	1080.4	1079.3	1078.2	1079.3	1080.4	1081.5	1082.6	1083.0	1082.8	1082.6
145°	1139.0	1137.9	1136.8	1135.7	1136.8	1137.9	1139.0	1140.0	1140.4	1140.2	1140.0
147.5°	1190.2	1189.1	1188.1	1187.1	1188.1	1189.1	1190.2	1191.2	1191.5	1190.8	1190.3
150°	1222.9	1222.1	1221.3	1220.5	1221.3	1222.1	1222.9	1223.8	1223.8	1222.9	1222.1
152.5°	1255.1	1254.0	1253.0	1252.0	1253.0	1254.0	1255.1	1256.1	1256.1	1255.1	1254.0
155°	1296.7	1295.9	1295.1	1294.3	1295.1	1295.9	1296.7	1297.5	1297.2	1295.9	1294.5
157.5°	1334.6	1333.3	1332.0	1330.6	1332.0	1333.3	1334.6	1335.9	1335.6	1333.7	1331.9
160°	1356.5	1355.4	1354.4	1353.2	1354.4	1355.4	1356.5	1357.6	1357.3	1355.7	1354.0
162.5°	1376.9	1375.6	1374.3	1372.9	1374.3	1375.6	1376.9	1378.2	1377.9	1376.1	1374.2
165°	1402.8	1401.5	1400.1	1398.7	1400.1	1401.5	1402.8	1404.2	1403.9	1402.0	1400.1
167.5°	1424.2	1422.7	1421.3	1419.8	1421.3	1422.7	1424.2	1425.6	1425.3	1423.4	1421.5
170°	1435.6	1433.9	1432.3	1430.7	1432.3	1433.9	1435.6	1437.2	1437.1	1435.2	1433.3
172.5°	1444.5	1442.8	1441.2	1439.6	1441.2	1442.8	1444.5	1446.1	1445.9	1444.1	1442.1
175°	1454.0	1452.4	1450.7	1449.1	1450.7	1452.4	1454.0	1455.7	1455.6	1453.6	1451.7
177.5°	1457.5	1456.2	1454.8	1453.5	1454.8	1456.2	1457.5	1458.8	1458.8	1457.5	1456.2
180°	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5



TEST NUMBER: P331782-930

CATALOG NUMBER: S122RDIW-S290D1440U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
2.5°	512.6	514.6	517.7	519.5	522.4	524.4	525.5	527.3	528.4	532.1	536.0
5°	483.9	486.9	492.0	496.8	502.1	507.4	511.4	515.8	519.8	526.8	534.3
7.5°	451.1	455.2	463.3	470.9	480.0	487.5	494.2	501.8	508.6	518.7	529.2
10°	426.5	433.7	444.3	451.5	463.3	470.9	481.5	489.8	499.3	512.7	524.5
12.5°	405.3	414.0	422.5	432.5	443.2	455.8	467.4	478.2	489.3	503.1	517.1
15°	366.9	379.4	392.6	402.8	417.3	430.6	444.1	458.5	472.2	488.8	506.9
17.5°	317.4	332.0	354.1	371.5	388.5	401.9	418.7	436.1	452.2	472.1	492.4
20°	295.1	305.7	320.7	344.3	369.8	384.1	401.1	420.4	438.9	460.6	482.2
22.5°	277.1	286.7	298.6	317.0	345.5	365.0	382.8	402.4	423.8	445.9	469.9
25°	251.5	258.1	270.8	285.6	305.2	337.2	356.7	376.3	399.7	423.4	450.8
27.5°	232.3	238.3	246.5	260.6	275.2	298.2	329.1	350.6	373.8	400.5	428.9
30°	217.6	224.6	233.7	243.7	259.7	277.6	308.5	333.4	356.3	383.8	414.1
32.5°	206.9	212.5	220.2	230.4	243.6	260.9	285.6	315.7	338.1	367.0	398.7
35°	189.5	195.9	202.2	211.9	222.6	238.3	257.1	289.3	311.5	340.0	371.9
37.5°	175.0	179.0	186.0	193.6	205.0	216.7	232.9	261.8	285.8	313.8	346.4
40°	164.1	169.1	174.2	182.8	192.1	203.3	219.2	240.8	268.3	295.8	327.6
42.5°	153.4	159.7	165.3	171.0	181.1	192.4	205.4	223.6	251.8	277.7	308.7
45°	140.6	144.6	150.3	156.7	165.0	174.6	186.1	202.0	229.1	251.5	280.5
47.5°	125.6	131.6	135.3	141.5	149.4	158.6	169.3	183.0	204.9	225.9	252.9
50°	115.4	121.5	126.9	132.4	139.4	148.3	157.3	170.6	188.2	210.2	235.4
52.5°	106.6	112.0	117.2	122.8	129.7	137.8	146.3	158.0	173.0	193.3	217.8
55°	94.7	98.0	103.4	108.9	115.0	122.8	130.9	140.7	153.7	170.7	190.5
57.5°	82.3	86.2	90.4	96.0	102.2	108.2	115.5	124.4	134.6	150.0	167.0
60°	75.4	78.4	81.9	87.6	93.4	98.7	105.7	113.2	122.8	136.2	150.6
62.5°	67.7	70.5	73.7	78.7	84.3	89.2	95.4	103.2	111.4	123.5	136.2
65°	54.8	58.9	62.0	66.4	71.1	76.3	81.1	87.4	94.7	104.3	115.5
67.5°	45.4	47.5	50.5	54.5	59.2	63.7	68.2	73.1	79.4	86.8	95.8
70°	41.3	42.1	42.6	46.5	51.0	55.4	59.6	64.2	69.6	75.7	83.5
72.5°	36.4	37.2	37.8	39.5	43.0	47.5	51.9	55.4	60.4	65.6	71.8
75°	28.9	30.0	30.6	31.5	32.8	35.7	39.8	43.1	46.1	50.0	55.0
77.5°	22.0	22.7	23.2	24.2	25.0	26.3	28.7	31.6	34.5	36.7	40.1
80°	17.4	17.6	18.3	18.7	19.8	20.7	21.9	24.3	27.1	28.0	30.4
82.5°	13.1	13.3	13.9	14.3	14.8	15.6	17.0	17.6	19.8	21.0	22.5
85°	7.3	7.0	7.6	7.6	8.0	8.3	8.7	9.6	10.2	11.7	12.1
87.5°	10.7	10.8	9.8	8.6	7.3	6.4	5.7	5.1	4.8	4.6	4.6
90°	42.5	43.0	37.0	31.0	25.0	19.0	14.3	11.1	7.7	4.5	1.2
92.5°	39.2	39.1	37.7	36.3	34.8	33.4	31.5	29.1	26.7	24.3	21.9
95°	78.7	78.7	78.1	77.5	77.0	76.5	74.8	72.1	69.4	66.6	63.9
97.5°	132.2	132.2	131.2	130.2	129.1	128.1	126.4	124.0	121.6	119.2	116.8
100°	169.6	169.6	168.8	168.0	167.1	166.3	164.9	162.7	160.5	158.2	156.1
102.5°	210.2	209.9	208.9	207.8	206.8	205.8	204.4	202.6	200.9	199.2	197.4
105°	270.9	270.4	269.9	269.3	268.8	268.2	267.5	266.7	265.9	265.1	264.2
107.5°	337.2	337.0	337.0	337.0	337.0	337.0	336.4	335.3	334.0	332.8	331.6
110°	382.3	382.3	382.3	382.3	382.3	382.3	381.4	379.8	378.1	376.5	374.9



TEST NUMBER: P331782-930

CATALOG NUMBER: S122RDIW-S290D1440U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	427.8	428.4	428.7	428.9	429.1	429.3	428.6	427.0	425.3	423.7	422.1
115°	496.3	496.6	497.1	497.7	498.2	498.7	498.2	496.6	494.9	493.3	491.6
117.5°	563.3	563.9	565.4	567.0	568.5	570.1	569.7	567.5	565.3	563.1	561.0
120°	607.2	607.2	609.4	611.6	613.8	616.0	616.0	613.8	611.6	609.4	607.2
122.5°	653.7	654.4	655.9	657.5	659.0	660.5	660.0	657.3	654.7	652.1	649.5
125°	721.9	722.7	723.6	724.4	725.2	726.0	725.2	722.7	720.2	717.8	715.3
127.5°	788.1	789.1	790.1	791.1	792.1	793.0	792.0	788.9	785.7	782.6	779.5
130°	832.8	833.3	833.9	834.5	834.9	835.5	834.1	830.5	827.0	823.4	819.8
132.5°	877.3	878.6	878.5	878.3	878.2	878.2	876.6	873.8	870.8	868.0	865.0
135°	941.3	941.5	940.9	940.4	939.9	939.3	937.5	934.5	931.6	928.5	925.5
137.5°	1003.2	1003.5	1002.7	1002.0	1001.4	1000.6	999.0	996.5	994.1	991.6	989.2
140°	1044.7	1044.7	1043.4	1042.0	1040.6	1039.3	1037.4	1034.9	1032.5	1030.0	1027.5
142.5°	1082.3	1082.1	1081.2	1080.3	1079.3	1078.4	1076.7	1074.2	1071.8	1069.3	1066.9
145°	1139.6	1139.4	1137.8	1136.1	1134.5	1132.9	1131.1	1129.1	1127.2	1125.4	1123.4
147.5°	1189.7	1189.0	1188.0	1186.8	1185.8	1184.7	1183.0	1180.7	1178.4	1176.1	1173.8
150°	1221.3	1220.5	1219.4	1218.3	1217.2	1216.1	1214.8	1213.2	1211.5	1209.8	1208.2
152.5°	1253.0	1252.0	1250.7	1249.4	1248.1	1246.8	1245.3	1243.6	1241.9	1240.3	1238.7
155°	1293.1	1291.8	1290.9	1290.1	1289.3	1288.5	1287.7	1286.9	1286.1	1285.2	1284.4
157.5°	1330.0	1328.2	1327.7	1327.2	1326.7	1326.2	1325.7	1325.2	1324.6	1324.0	1323.5
160°	1352.4	1350.8	1350.5	1350.2	1350.0	1349.7	1349.3	1348.7	1348.2	1347.7	1347.1
162.5°	1372.3	1370.4	1370.2	1369.9	1369.6	1369.4	1369.2	1369.1	1369.0	1368.9	1368.7
165°	1398.2	1396.3	1396.3	1396.3	1396.3	1396.3	1396.4	1396.7	1396.9	1397.3	1397.5
167.5°	1419.6	1417.6	1417.7	1417.8	1417.8	1417.9	1418.3	1419.1	1419.9	1420.7	1421.6
170°	1431.3	1429.5	1429.7	1430.0	1430.3	1430.5	1431.1	1431.9	1432.7	1433.5	1434.4
172.5°	1440.2	1438.3	1438.6	1438.8	1439.2	1439.4	1440.0	1440.8	1441.6	1442.4	1443.2
175°	1449.8	1447.9	1448.5	1448.9	1449.5	1450.1	1450.7	1451.6	1452.4	1453.2	1454.0
177.5°	1454.8	1453.5	1454.0	1454.4	1454.8	1455.3	1455.9	1456.5	1457.2	1457.8	1458.5
180°	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5



TEST NUMBER: P331782-930

CATALOG NUMBER: S122RDIW-S290D1440U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
2.5°	536.1	536.5	539.5	540.9	543.5	544.5	545.8	545.4	545.4	546.0	550.2
5°	537.3	541.0	546.5	551.9	557.1	561.5	564.5	567.4	568.6	573.9	578.7
7.5°	535.3	542.2	551.3	559.5	569.3	577.0	583.3	589.1	593.0	600.9	608.9
10°	532.8	542.4	552.8	563.4	576.9	587.1	597.5	605.4	608.0	619.6	626.3
12.5°	527.7	540.6	553.8	567.5	580.7	594.8	606.2	614.2	623.3	633.7	646.0
15°	520.2	535.0	552.3	569.8	588.7	605.8	618.0	631.9	641.9	653.4	664.1
17.5°	509.4	528.5	550.3	570.7	592.6	610.8	627.7	641.0	648.0	654.6	656.2
20°	500.8	521.3	547.1	571.1	593.0	614.1	630.8	641.9	643.8	643.9	634.1
22.5°	491.5	514.7	541.6	566.2	592.4	615.9	628.8	633.6	626.2	613.7	594.7
25°	474.3	501.2	532.5	560.6	589.1	611.3	615.8	607.5	581.7	554.6	520.4
27.5°	455.7	485.9	519.4	550.7	581.1	594.9	585.3	555.2	508.9	468.6	419.7
30°	442.1	476.0	508.9	543.9	572.1	578.0	556.0	511.7	457.6	396.9	348.1
32.5°	426.5	462.0	498.2	534.4	558.0	552.2	515.8	461.3	397.9	338.2	292.2
35°	404.3	440.9	480.0	516.3	531.3	506.3	451.8	380.9	316.1	260.4	228.7
37.5°	378.6	418.6	459.2	492.5	491.5	449.8	375.6	302.4	247.9	214.9	192.4
40°	360.4	400.8	444.7	472.8	460.8	406.5	326.1	257.1	217.2	190.9	174.5
42.5°	342.9	383.4	427.1	449.4	428.4	361.7	281.7	227.6	194.7	174.2	160.9
45°	313.2	356.0	396.3	408.7	371.3	297.8	227.8	188.5	166.6	151.5	142.3
47.5°	284.1	326.2	363.1	363.2	312.7	241.5	192.2	163.1	144.5	132.7	126.0
50°	266.3	306.3	337.2	332.4	275.0	214.8	171.9	146.8	131.3	122.2	115.2
52.5°	246.3	285.1	311.9	298.2	243.1	189.1	153.6	132.6	119.8	111.9	105.6
55°	217.2	251.7	270.6	249.8	198.4	157.3	129.8	113.3	103.7	97.0	91.6
57.5°	188.7	217.1	228.9	204.8	163.4	130.4	109.8	97.4	87.9	83.1	80.3
60°	170.7	195.0	203.3	176.7	142.0	114.1	97.3	85.8	78.7	75.6	72.8
62.5°	153.1	172.9	176.3	152.0	123.8	99.9	85.4	75.7	71.0	68.0	65.4
65°	127.0	141.3	139.7	120.0	98.0	79.2	68.7	62.8	59.3	55.0	50.4
67.5°	104.6	113.3	108.0	93.4	74.8	61.6	54.7	50.2	45.8	41.8	40.8
70°	90.3	95.4	89.8	76.3	61.3	51.7	46.1	40.8	38.2	37.3	35.5
72.5°	76.7	78.5	72.5	60.9	49.9	42.8	37.3	34.4	32.9	32.2	31.1
75°	57.6	56.3	51.1	42.1	34.7	29.8	28.1	27.1	26.1	25.4	24.8
77.5°	40.4	38.6	33.9	28.0	24.1	21.9	20.8	20.2	19.8	19.4	18.8
80°	30.4	29.1	24.5	20.0	18.3	17.2	16.6	15.9	15.9	15.6	15.0
82.5°	22.3	20.8	16.7	14.7	13.8	13.0	12.6	12.2	12.1	12.1	11.7
85°	11.7	9.5	8.3	8.0	7.4	7.0	7.3	6.8	6.8	6.8	6.7
87.5°	4.5	4.4	4.9	5.4	6.4	7.7	8.7	9.9	11.3	11.0	11.1
90°	4.5	7.7	11.1	14.3	19.0	25.0	31.0	37.0	43.0	42.5	41.9
92.5°	24.3	26.7	29.1	31.5	33.4	34.8	36.3	37.7	39.1	39.2	39.3
95°	66.6	69.4	72.1	74.8	76.5	77.0	77.5	78.1	78.7	78.7	78.7
97.5°	119.2	121.6	124.0	126.4	128.1	129.1	130.2	131.2	132.2	132.2	132.2
100°	158.2	160.5	162.7	164.9	166.3	167.1	168.0	168.8	169.6	169.6	169.6
102.5°	199.2	200.9	202.6	204.4	205.8	206.8	207.8	208.9	209.9	210.2	210.3
105°	265.1	265.9	266.7	267.5	268.2	268.8	269.3	269.9	270.4	270.9	271.5
107.5°	332.8	334.0	335.3	336.4	337.0	337.0	337.0	337.0	337.0	337.2	337.5
110°	376.5	378.1	379.8	381.4	382.3	382.3	382.3	382.3	382.3	382.3	382.3





TEST NUMBER: P331782-930

CATALOG NUMBER: S122RDIW-S290D1440U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	423.7	425.3	427.0	428.6	429.3	429.1	428.9	428.7	428.4	427.8	427.1
115°	493.3	494.9	496.6	498.2	498.7	498.2	497.7	497.1	496.6	496.3	496.0
117.5°	563.1	565.3	567.5	569.7	570.1	568.5	567.0	565.4	563.9	563.3	562.6
120°	609.4	611.6	613.8	616.0	616.0	613.8	611.6	609.4	607.2	607.2	607.2
122.5°	652.1	654.7	657.3	660.0	660.5	659.0	657.5	655.9	654.4	653.7	653.1
125°	717.8	720.2	722.7	725.2	726.0	725.2	724.4	723.6	722.7	721.9	721.1
127.5°	782.6	785.7	788.9	792.0	793.0	792.1	791.1	790.1	789.1	788.1	787.1
130°	823.4	827.0	830.5	834.1	835.5	834.9	834.5	833.9	833.3	832.8	832.3
132.5°	868.0	870.8	873.8	876.6	878.2	878.2	878.3	878.5	878.6	877.3	876.2
135°	928.5	931.6	934.5	937.5	939.3	939.9	940.4	940.9	941.5	941.3	940.9
137.5°	991.6	994.1	996.5	999.0	1000.6	1001.4	1002.0	1002.7	1003.5	1003.2	1003.0
140°	1030.0	1032.5	1034.9	1037.4	1039.3	1040.6	1042.0	1043.4	1044.7	1044.7	1044.7
142.5°	1069.3	1071.8	1074.2	1076.7	1078.4	1079.3	1080.3	1081.2	1082.1	1082.3	1082.6
145°	1125.4	1127.2	1129.1	1131.1	1132.9	1134.5	1136.1	1137.8	1139.4	1139.6	1140.0
147.5°	1176.1	1178.4	1180.7	1183.0	1184.7	1185.8	1186.8	1188.0	1189.0	1189.7	1190.3
150°	1209.8	1211.5	1213.2	1214.8	1216.1	1217.2	1218.3	1219.4	1220.5	1221.3	1222.1
152.5°	1240.3	1241.9	1243.6	1245.3	1246.8	1248.1	1249.4	1250.7	1252.0	1253.0	1254.0
155°	1285.2	1286.1	1286.9	1287.7	1288.5	1289.3	1290.1	1290.9	1291.8	1293.1	1294.5
157.5°	1324.0	1324.6	1325.2	1325.7	1326.2	1326.7	1327.2	1327.7	1328.2	1330.0	1331.9
160°	1347.7	1348.2	1348.7	1349.3	1349.7	1350.0	1350.2	1350.5	1350.8	1352.4	1354.0
162.5°	1368.9	1369.0	1369.1	1369.2	1369.4	1369.6	1369.9	1370.2	1370.4	1372.3	1374.2
165°	1397.3	1396.9	1396.7	1396.4	1396.3	1396.3	1396.3	1396.3	1396.3	1398.2	1400.1
167.5°	1420.7	1419.9	1419.1	1418.3	1417.9	1417.8	1417.8	1417.7	1417.6	1419.6	1421.5
170°	1433.5	1432.7	1431.9	1431.1	1430.5	1430.3	1430.0	1429.7	1429.5	1431.3	1433.3
172.5°	1442.4	1441.6	1440.8	1440.0	1439.4	1439.2	1438.8	1438.6	1438.3	1440.2	1442.1
175°	1453.2	1452.4	1451.6	1450.7	1450.1	1449.5	1448.9	1448.5	1447.9	1449.8	1451.7
177.5°	1457.8	1457.2	1456.5	1455.9	1455.3	1454.8	1454.4	1454.0	1453.5	1454.8	1456.2
180°	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5



TEST NUMBER: P331782-930

CATALOG NUMBER: S122RDIW-S290D1440U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	533.0	533.0	533.0	533.0	533.0	533.0	533.0
2.5°	551.6	553.6	554.5	554.5	555.5	555.1	554.6
5°	583.3	586.9	587.7	590.9	593.4	592.6	593.0
7.5°	614.9	620.5	626.1	628.7	629.1	630.6	631.1
10°	634.3	639.0	647.6	646.4	652.8	656.6	650.4
12.5°	653.0	659.3	665.3	666.9	670.6	671.8	669.4
15°	669.8	673.2	673.5	672.6	673.8	672.8	669.3
17.5°	654.1	648.7	637.7	632.5	628.4	622.3	619.9
20°	628.0	612.0	593.5	586.1	577.5	560.4	564.5
22.5°	571.7	553.6	535.0	513.4	503.0	486.9	485.9
25°	484.1	452.8	418.3	394.3	380.2	364.1	357.0
27.5°	376.4	337.0	308.8	294.5	281.4	268.7	268.2
30°	305.6	276.0	254.1	241.9	233.9	228.5	229.7
32.5°	257.6	237.3	222.5	212.4	206.5	202.4	202.4
35°	210.6	196.7	187.2	183.0	178.7	175.8	175.9
37.5°	180.2	171.9	166.6	161.9	159.2	157.8	156.9
40°	164.6	157.8	153.7	150.9	148.7	146.7	146.3
42.5°	152.4	146.7	142.6	140.4	138.4	136.9	136.6
45°	135.2	130.5	126.9	124.4	123.5	122.2	122.2
47.5°	120.3	115.7	112.8	111.3	109.7	108.8	108.8
50°	110.2	106.6	104.1	103.1	101.8	101.3	101.1
52.5°	101.2	98.5	96.7	96.0	95.5	94.8	94.9
55°	88.9	87.4	86.7	86.1	85.2	84.1	84.8
57.5°	78.6	77.3	75.3	73.5	72.7	71.9	72.2
60°	71.3	68.7	66.1	64.1	63.5	61.9	61.9
62.5°	62.1	58.5	55.3	54.1	53.6	52.8	52.7
65°	47.8	46.3	45.6	44.8	44.4	44.4	44.1
67.5°	39.6	39.0	38.2	38.0	37.7	37.5	37.4
70°	35.0	34.2	33.9	33.7	33.3	33.5	32.9
72.5°	30.6	30.0	29.9	29.4	29.2	29.2	28.8
75°	24.1	24.1	23.9	23.7	23.3	23.2	23.3
77.5°	18.5	18.6	18.3	18.2	18.2	18.2	18.0
80°	14.8	15.0	14.8	14.6	14.4	14.6	14.4
82.5°	11.7	11.4	11.4	11.3	11.3	11.3	11.2
85°	6.7	6.8	6.7	6.5	6.5	6.5	6.7
87.5°	10.8	10.7	10.7	10.7	10.8	10.8	10.8
90°	41.4	40.8	40.7	41.0	41.3	41.5	41.8
92.5°	39.4	39.5	39.6	39.6	39.7	39.8	39.8
95°	78.7	78.7	78.4	77.9	77.3	76.7	76.2
97.5°	132.2	132.2	132.2	132.2	132.1	132.1	132.0
100°	169.6	169.6	169.5	169.2	168.9	168.7	168.4
102.5°	210.6	210.8	210.8	210.5	210.3	209.9	209.7
105°	272.1	272.6	272.9	272.9	272.9	272.9	272.9
107.5°	337.7	337.9	337.4	336.1	334.8	333.6	332.3
110°	382.3	382.3	381.8	381.0	380.2	379.4	378.5



TEST NUMBER: P331782-930

CATALOG NUMBER: S122RDIW-S290D1440U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	426.5	425.8	425.2	424.6	424.0	423.4	422.8
115°	495.7	495.5	494.9	494.1	493.3	492.4	491.6
117.5°	562.0	561.3	560.5	559.7	558.9	558.1	557.3
120°	607.2	607.2	606.7	605.9	605.1	604.3	603.5
122.5°	652.4	651.8	651.1	650.5	650.0	649.3	648.7
125°	720.2	719.4	718.9	718.6	718.4	718.1	717.8
127.5°	786.1	785.1	784.2	783.3	782.4	781.6	780.7
130°	831.7	831.1	830.3	829.2	828.2	827.0	826.0
132.5°	875.0	873.8	872.7	871.9	871.0	870.1	869.2
135°	940.7	940.4	939.9	939.1	938.2	937.4	936.6
137.5°	1002.8	1002.6	1001.9	1000.9	999.7	998.7	997.5
140°	1044.7	1044.7	1044.2	1043.1	1042.0	1040.9	1039.8
142.5°	1082.8	1083.0	1082.6	1081.5	1080.4	1079.3	1078.2
145°	1140.2	1140.4	1140.0	1139.0	1137.9	1136.8	1135.7
147.5°	1190.8	1191.5	1191.2	1190.2	1189.1	1188.1	1187.1
150°	1222.9	1223.8	1223.8	1222.9	1222.1	1221.3	1220.5
152.5°	1255.1	1256.1	1256.1	1255.1	1254.0	1253.0	1252.0
155°	1295.9	1297.2	1297.5	1296.7	1295.9	1295.1	1294.3
157.5°	1333.7	1335.6	1335.9	1334.6	1333.3	1332.0	1330.6
160°	1355.7	1357.3	1357.6	1356.5	1355.4	1354.4	1353.2
162.5°	1376.1	1377.9	1378.2	1376.9	1375.6	1374.3	1372.9
165°	1402.0	1403.9	1404.2	1402.8	1401.5	1400.1	1398.7
167.5°	1423.4	1425.3	1425.6	1424.2	1422.7	1421.3	1419.8
170°	1435.2	1437.1	1437.2	1435.6	1433.9	1432.3	1430.7
172.5°	1444.1	1445.9	1446.1	1444.5	1442.8	1441.2	1439.6
175°	1453.6	1455.6	1455.7	1454.0	1452.4	1450.7	1449.1
177.5°	1457.5	1458.8	1458.8	1457.5	1456.2	1454.8	1453.5
180°	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5	1456.5

(END OF REPORT)