

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: P331490-930

Luminaire Tested: **S122DIW-S290D1440U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331490-930  
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: S122DIW-S290D1440U930-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1440 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5141.6 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

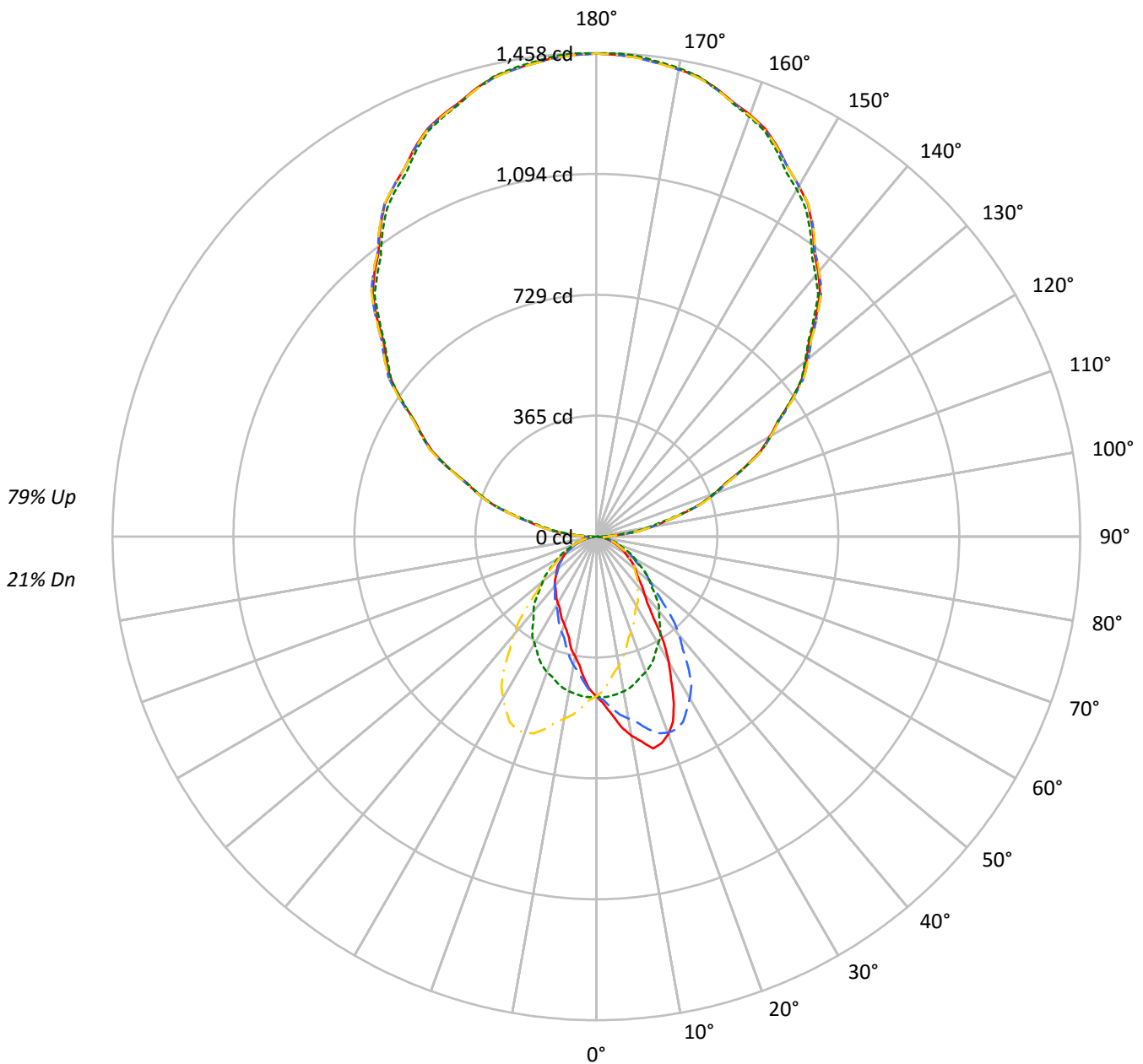
Input Watts (W): 53.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331490-930

CATALOG NUMBER: S122DIW-S290D1440U930-4F0-1E-UDD-A1

### Luminous Intensity Polar Plot



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



TEST NUMBER: P331490-930

CATALOG NUMBER: S122DIW-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	89	89	89	89	67	67	67	47	47	47	29	29	29	21
1	91	87	84	80	81	77	74	72	59	57	55	42	41	40	26	26	25	18
2	83	76	71	66	74	68	63	59	52	49	46	37	35	33	23	22	21	15
3	76	67	60	55	67	60	54	49	46	42	39	33	30	28	21	19	18	13
4	70	60	52	46	61	53	47	42	41	36	33	29	27	24	19	17	16	11
5	64	53	45	40	56	47	41	36	36	32	28	26	23	21	17	15	14	10
6	59	47	40	34	52	42	36	31	33	28	25	24	21	18	15	14	12	9
7	54	43	35	30	48	38	32	27	30	25	22	22	19	16	14	12	11	8
8	50	39	31	26	44	35	28	24	27	22	19	20	17	14	13	11	10	7
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	12	10	9	7
10	43	32	25	21	38	29	23	19	22	18	15	17	14	12	11	9	8	6

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

	0°	90°	180°	270°
0°	7781	7781	7781	7781
5°	8723	7831	6940	7831
10°	9996	7768	6005	7768
15°	11057	7626	5307	7626
20°	10890	7472	4837	7472
25°	9818	7269	4541	7269
30°	8114	6943	4323	6943
35°	5913	6603	4169	6603
40°	4723	6203	4083	6203
45°	4128	5740	3966	5740
50°	3881	5290	3888	5290
55°	3575	4833	3783	4833
60°	3278	4346	3626	4346
65°	2988	3912	3465	3912
70°	2710	3489	3238	3489
75°	2408	3013	2863	3013
80°	2073	2492	2306	2492
85°	1853	1853	1371	1853



TEST NUMBER: P331490-930

CATALOG NUMBER: S122DIW-S290D1440U930-4F0-1E-UDD-A1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.9	0.9
10°-20°	133.4	2.6
20°-30°	193.6	3.8
30°-40°	204.3	4.0
40°-50°	180.9	3.5
50°-60°	144.4	2.8
60°-70°	98.1	1.9
70°-80°	50.3	1.0
80°-90°	17.9	0.3
90°-100°	92.3	1.8
100°-110°	286.6	5.6
110°-120°	490.0	9.5
120°-130°	644.3	12.5
130°-140°	723.2	14.1
140°-150°	709.1	13.8
150°-160°	594.8	11.6
160°-170°	394.5	7.7
170°-180°	137.9	2.7
0°-30°	373.0	7.3
0°-40°	577.3	11.2
0°-60°	902.6	17.6
0°-90°	1069.0	20.8
90°-120°	868.9	16.9
90°-150°	2945.5	57.3
90°-180°	4073.0	79.2
0°-180°	5141.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	482	482	482	482	482	
5°	538	483	428	483	538	54
15°	662	456	318	456	662	183
25°	551	408	255	408	551	249
35°	300	335	212	335	300	195
45°	181	251	174	251	181	142
55°	127	172	134	172	127	114
65°	78	102	91	102	78	78
75°	39	48	46	48	39	41
85°	10	10	7	10	10	12
90°	42	1	42	1	42	19
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: P331490-930

CATALOG NUMBER: S122DIW-S290D1440U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	504.1	504.3	504.6	502.2	501.9	501.9	499.9	498.1	495.9	493.2	493.5
5°	538.2	540.2	541.0	538.7	535.4	535.1	531.9	526.8	521.9	518.0	515.3
7.5°	578.9	579.7	577.9	574.9	572.5	568.0	562.1	556.4	548.4	541.0	535.6
10°	609.7	610.8	607.6	603.4	599.9	594.7	586.2	577.5	567.0	556.8	548.6
12.5°	633.1	635.9	631.8	631.3	625.3	618.1	608.0	603.6	588.7	574.5	565.7
15°	661.5	661.4	661.8	658.2	653.8	652.6	642.0	630.2	609.4	601.0	586.5
17.5°	653.3	656.2	657.5	657.4	657.3	656.6	653.1	645.8	635.3	621.7	605.1
20°	633.8	637.5	638.1	642.3	644.7	647.8	649.1	647.1	640.7	629.3	614.9
22.5°	603.6	604.6	606.3	612.9	618.2	626.1	630.1	637.1	634.5	629.0	616.9
25°	551.1	549.3	555.8	559.1	571.2	583.8	592.9	602.8	611.7	617.1	613.6
27.5°	488.3	485.5	495.2	504.1	513.8	527.5	541.6	558.3	572.2	589.6	595.6
30°	435.2	436.9	446.1	455.6	470.4	489.7	505.6	523.9	543.8	563.2	576.7
32.5°	378.1	384.4	390.3	404.8	417.8	439.3	462.7	485.6	510.3	532.4	553.3
35°	300.0	307.4	315.6	326.1	344.5	365.7	388.6	419.5	453.2	483.4	508.2
37.5°	252.6	251.4	256.0	263.7	278.5	295.7	322.0	352.5	392.2	427.6	462.7
40°	224.1	223.4	226.7	233.7	245.0	257.6	280.6	307.4	344.3	387.7	429.3
42.5°	204.6	205.0	206.8	211.8	219.6	229.9	247.1	269.9	303.7	344.5	389.3
45°	180.8	182.1	184.1	186.5	190.9	199.5	209.1	225.4	252.1	286.2	330.2
47.5°	163.6	163.7	165.8	167.9	170.5	175.3	183.2	193.4	212.2	239.9	277.9
50°	154.5	153.2	154.7	156.3	159.1	162.4	167.6	177.2	189.8	212.2	243.9
52.5°	143.2	143.2	144.6	145.2	147.7	151.0	155.7	162.4	173.8	191.4	217.4
55°	127.0	128.0	128.7	129.8	132.1	134.4	138.2	142.6	151.5	164.6	183.9
57.5°	111.9	112.2	112.9	115.0	116.4	118.6	122.1	126.2	132.0	141.7	156.2
60°	101.5	101.5	103.0	103.9	105.7	107.9	110.7	114.6	119.8	127.8	139.5
62.5°	92.0	91.9	92.5	94.0	95.4	97.4	100.2	103.5	108.4	115.5	125.1
65°	78.2	77.8	78.9	79.2	80.7	82.8	85.0	88.5	92.5	97.6	106.2
67.5°	64.8	65.3	65.9	66.5	67.3	69.5	71.0	73.5	76.8	81.1	86.8
70°	57.4	57.4	57.4	58.0	59.1	60.2	61.6	63.7	66.9	70.5	75.7
72.5°	49.1	49.7	50.3	50.0	51.4	52.0	53.8	55.0	58.0	60.3	64.9
75°	38.6	38.6	38.6	39.5	40.0	40.5	41.7	42.8	44.3	47.2	49.7
77.5°	28.8	28.7	28.9	29.1	29.7	30.3	30.7	31.6	33.0	34.4	36.4
80°	22.3	22.6	22.7	23.2	23.2	23.5	23.7	25.0	25.9	26.8	28.1
82.5°	17.2	17.3	17.3	17.4	17.5	17.8	18.3	18.7	19.0	19.7	20.7
85°	10.0	9.8	9.8	10.2	10.0	10.0	10.4	10.8	10.8	10.9	11.5
87.5°	12.2	12.1	12.2	12.1	12.0	12.1	12.3	12.2	12.5	12.7	11.7
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: P331490-930

CATALOG NUMBER: S122DIW-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: P331490-930

CATALOG NUMBER: S122DIW-S290D1440U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	494.5	493.3	492.6	489.9	487.5	485.2	484.5	484.7	481.4	478.3	477.0
5°	513.8	510.1	506.5	501.6	495.6	489.1	485.8	483.2	476.7	469.7	465.6
7.5°	531.0	525.7	518.9	509.6	500.9	490.7	484.2	478.5	469.0	459.1	453.0
10°	541.5	534.3	525.6	514.1	503.6	491.1	482.5	473.8	462.7	450.8	443.4
12.5°	550.6	540.9	532.3	517.6	505.1	489.5	479.2	466.9	455.3	441.2	433.9
15°	572.1	554.2	537.9	521.1	505.8	484.1	472.6	456.2	440.8	423.4	415.1
17.5°	588.7	568.5	542.9	521.7	503.8	479.7	462.9	443.2	425.0	405.1	393.8
20°	598.2	575.0	547.5	522.3	500.8	473.4	455.0	434.9	413.6	391.2	379.0
22.5°	603.8	579.5	552.2	520.1	494.9	468.2	445.2	423.0	401.5	377.2	364.4
25°	605.6	583.4	554.5	518.2	487.5	457.3	429.5	408.0	381.9	359.3	340.6
27.5°	596.8	580.9	553.1	514.7	478.9	443.6	412.6	388.3	360.8	336.2	317.4
30°	586.0	576.7	549.7	511.2	472.1	434.1	400.1	372.4	345.0	320.2	300.9
32.5°	569.2	567.3	543.5	506.1	464.8	422.2	386.9	359.0	328.6	304.2	285.8
35°	536.4	545.3	530.3	494.9	451.2	405.0	366.9	335.0	303.5	280.2	263.0
37.5°	492.3	514.4	510.5	478.4	432.7	386.5	344.3	311.0	281.0	257.5	240.6
40°	461.9	490.1	494.2	465.8	419.7	372.1	327.4	294.3	265.1	243.5	226.5
42.5°	429.3	462.2	473.4	450.7	405.4	356.9	312.3	278.0	249.0	228.1	213.0
45°	374.7	418.2	438.4	425.4	381.7	332.1	286.2	251.4	225.0	205.4	193.7
47.5°	323.6	371.1	398.3	393.7	355.3	306.1	260.7	227.3	201.7	186.1	175.6
50°	287.5	336.3	369.1	370.6	336.3	287.6	242.1	210.6	187.0	172.4	163.9
52.5°	256.0	302.7	338.4	346.3	315.1	268.4	225.3	194.0	173.3	159.8	152.2
55°	215.0	254.5	294.1	308.6	283.6	239.1	199.3	171.7	152.2	143.0	136.3
57.5°	178.8	211.7	248.3	264.2	248.8	210.8	173.4	149.4	133.7	125.6	120.4
60°	159.6	185.6	218.2	237.3	223.9	190.0	157.4	134.6	121.6	114.5	109.7
62.5°	141.9	164.9	192.4	209.9	202.6	170.6	141.5	121.3	110.1	103.4	99.9
65°	117.1	135.2	156.5	172.6	167.8	143.6	119.6	102.4	93.5	88.1	85.4
67.5°	96.4	109.5	124.3	138.4	134.5	117.3	98.2	84.7	78.1	73.5	71.7
70°	83.3	93.4	106.5	117.8	114.6	100.6	85.4	73.9	68.2	64.2	62.6
72.5°	70.9	79.1	89.2	98.4	96.3	84.5	71.9	63.3	58.8	55.2	53.9
75°	53.6	59.8	66.0	72.1	71.5	62.5	55.0	48.3	44.8	42.1	41.5
77.5°	39.5	43.0	47.2	50.8	49.8	44.6	38.8	35.0	32.4	30.6	30.2
80°	30.2	32.2	35.2	37.7	36.5	34.2	29.6	26.8	25.0	23.2	22.4
82.5°	21.9	23.9	25.7	27.1	26.1	24.1	21.2	19.3	18.2	17.0	16.6
85°	11.5	12.6	13.4	13.7	13.4	12.1	10.8	10.0	9.0	8.5	8.3
87.5°	10.7	9.5	8.2	7.6	6.5	5.9	4.6	3.5	4.0	4.5	4.9
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: P331490-930

CATALOG NUMBER: S122DIW-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: P331490-930

CATALOG NUMBER: S122DIW-S290D1440U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	475.6	474.7	471.6	469.9	467.2	464.7	463.1	463.8	464.4	464.1	463.7
5°	461.9	458.4	453.0	448.4	445.1	439.0	436.3	435.0	433.9	432.7	431.4
7.5°	445.6	440.1	432.4	425.8	419.6	412.0	407.6	405.1	402.4	399.5	396.9
10°	434.1	426.3	418.2	409.0	401.5	394.7	388.6	384.5	380.7	377.2	374.7
12.5°	422.0	413.0	402.9	390.3	382.1	372.3	371.4	364.2	358.4	356.2	353.2
15°	402.7	390.0	377.2	362.2	355.8	346.9	341.4	335.7	330.8	327.3	326.4
17.5°	380.7	364.4	351.6	340.9	330.3	321.1	316.0	311.6	307.4	302.8	302.1
20°	363.9	349.8	336.0	326.5	315.6	306.3	300.0	295.6	292.0	289.3	286.9
22.5°	348.1	332.6	319.9	309.7	298.9	291.4	286.4	282.1	279.2	276.1	273.9
25°	322.6	310.6	296.7	285.0	276.1	271.3	267.3	263.6	261.7	259.7	257.1
27.5°	300.4	287.0	274.0	265.0	257.1	252.9	250.0	247.4	245.7	244.5	243.0
30°	284.7	271.2	261.0	252.1	245.6	241.3	239.5	238.0	235.9	235.2	234.5
32.5°	269.5	257.4	248.7	240.9	234.8	232.0	230.3	228.9	227.4	226.7	225.1
35°	248.2	238.0	229.5	225.2	220.2	217.8	216.5	214.7	213.2	212.5	212.2
37.5°	228.0	219.2	213.6	208.1	206.0	204.6	202.8	201.5	201.1	201.0	200.7
40°	215.0	207.8	202.8	198.4	197.5	195.2	193.7	192.7	192.7	192.8	192.7
42.5°	203.2	196.7	192.2	188.4	187.4	186.1	184.5	184.5	184.7	185.4	184.7
45°	185.2	180.6	177.4	175.6	173.6	172.3	172.0	172.6	172.8	173.0	173.6
47.5°	168.7	165.6	162.7	160.7	159.8	159.6	159.4	160.4	161.3	161.6	162.4
50°	158.9	155.4	153.0	151.6	150.9	150.6	150.9	152.1	152.8	153.7	154.3
52.5°	148.0	145.4	143.8	142.8	142.5	142.8	142.8	144.1	145.2	145.6	145.9
55°	132.8	130.9	130.6	128.9	129.6	129.5	130.4	131.1	132.2	133.4	133.5
57.5°	117.6	116.2	115.2	115.4	115.6	116.4	117.2	118.5	119.6	120.8	120.9
60°	107.6	106.9	106.3	106.3	106.6	107.8	108.7	110.0	110.7	111.5	112.0
62.5°	98.4	97.7	97.1	97.4	98.4	99.1	100.1	100.9	101.6	102.3	102.6
65°	83.9	83.6	84.1	84.5	84.6	85.5	86.8	87.4	88.1	88.5	89.8
67.5°	70.5	70.6	70.5	71.0	72.2	72.3	73.5	74.8	75.0	75.7	76.6
70°	61.5	61.9	62.2	62.6	63.5	63.9	64.8	65.4	66.1	66.7	67.3
72.5°	53.2	53.2	53.6	53.6	54.4	55.1	55.9	56.5	57.2	58.0	58.5
75°	40.9	40.9	41.3	41.5	42.4	43.4	43.1	43.5	44.3	45.0	45.4
77.5°	29.9	29.5	29.9	30.1	30.4	31.1	31.3	31.8	32.7	32.4	32.9
80°	22.7	22.3	22.7	23.0	23.0	23.9	23.9	24.3	24.8	24.3	24.8
82.5°	16.2	16.0	16.4	16.5	16.7	16.8	17.0	17.1	17.7	17.4	17.7
85°	8.2	8.0	8.2	8.0	8.2	8.3	8.3	8.2	8.2	8.5	8.0
87.5°	5.4	6.2	7.3	8.4	9.5	10.5	10.3	10.2	10.0	9.6	9.6
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: P331490-930

CATALOG NUMBER: S122DIW-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: P331490-930

CATALOG NUMBER: S122DIW-S290D1440U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	462.2	461.9	461.9	460.6	461.9	461.9	462.2	463.7	464.1	464.4	463.8
5°	428.8	428.2	427.3	428.2	427.3	428.2	428.8	431.4	432.7	433.9	435.0
7.5°	395.7	393.5	393.1	390.9	393.1	393.5	395.7	396.9	399.5	402.4	405.1
10°	371.5	370.1	369.8	366.3	369.8	370.1	371.5	374.7	377.2	380.7	384.5
12.5°	353.2	349.6	350.3	348.3	350.3	349.6	353.2	353.2	356.2	358.4	364.2
15°	321.3	321.3	320.6	317.5	320.6	321.3	321.3	326.4	327.3	330.8	335.7
17.5°	298.5	298.1	296.4	297.3	296.4	298.1	298.5	302.1	302.8	307.4	311.6
20°	284.9	283.7	281.5	281.5	281.5	283.7	284.9	286.9	289.3	292.0	295.6
22.5°	272.0	271.9	269.5	270.3	269.5	271.9	272.0	273.9	276.1	279.2	282.1
25°	256.9	255.4	254.3	254.9	254.3	255.4	256.9	257.1	259.7	261.7	263.6
27.5°	242.6	241.7	241.7	240.2	241.7	241.7	242.6	243.0	244.5	245.7	247.4
30°	234.3	232.4	232.8	231.9	232.8	232.4	234.3	234.5	235.2	235.9	238.0
32.5°	224.8	224.1	223.8	223.0	223.8	224.1	224.8	225.1	226.7	227.4	228.9
35°	211.9	212.1	211.2	211.5	211.2	212.1	211.9	212.2	212.5	213.2	214.7
37.5°	200.6	201.1	200.7	200.8	200.7	201.1	200.6	200.7	201.0	201.1	201.5
40°	193.1	193.1	193.1	193.7	193.1	193.1	193.1	192.7	192.8	192.7	192.7
42.5°	186.1	185.7	185.5	185.4	185.5	185.7	186.1	184.7	185.4	184.7	184.5
45°	173.9	174.5	174.6	173.7	174.6	174.5	173.9	173.6	173.0	172.8	172.6
47.5°	162.9	163.0	162.9	163.7	162.9	163.0	162.9	162.4	161.6	161.3	160.4
50°	155.2	154.8	155.2	154.8	155.2	154.8	155.2	154.3	153.7	152.8	152.1
52.5°	147.1	147.2	146.9	146.8	146.9	147.2	147.1	145.9	145.6	145.2	144.1
55°	134.3	134.6	134.4	134.4	134.4	134.6	134.3	133.5	133.4	132.2	131.1
57.5°	121.1	121.4	121.6	120.8	121.6	121.4	121.1	120.9	120.8	119.6	118.5
60°	111.9	112.8	112.6	112.3	112.6	112.8	111.9	112.0	111.5	110.7	110.0
62.5°	103.4	103.8	103.7	103.6	103.7	103.8	103.4	102.6	102.3	101.6	100.9
65°	90.4	90.7	90.2	90.7	90.2	90.7	90.4	89.8	88.5	88.1	87.4
67.5°	76.3	76.5	76.9	77.1	76.9	76.5	76.3	76.6	75.7	75.0	74.8
70°	67.6	67.4	68.0	68.6	68.0	67.4	67.6	67.3	66.7	66.1	65.4
72.5°	58.4	58.8	58.6	59.0	58.6	58.8	58.4	58.5	58.0	57.2	56.5
75°	45.0	45.6	45.4	45.9	45.4	45.6	45.0	45.4	45.0	44.3	43.5
77.5°	32.5	32.6	32.5	32.9	32.5	32.6	32.5	32.9	32.4	32.7	31.8
80°	24.8	24.5	24.1	24.8	24.1	24.5	24.8	24.8	24.3	24.8	24.3
82.5°	17.3	17.4	17.1	17.1	17.1	17.4	17.3	17.7	17.4	17.7	17.1
85°	8.0	7.7	7.4	7.4	7.4	7.7	8.0	8.0	8.5	8.2	8.2
87.5°	9.7	9.6	9.6	9.5	9.6	9.6	9.7	9.6	9.6	10.0	10.2
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: P331490-930

CATALOG NUMBER: S122DIW-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: P331490-930

CATALOG NUMBER: S122DIW-S290D1440U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	463.1	464.7	467.2	469.9	471.6	474.7	475.6	477.0	478.3	481.4	484.7
5°	436.3	439.0	445.1	448.4	453.0	458.4	461.9	465.6	469.7	476.7	483.2
7.5°	407.6	412.0	419.6	425.8	432.4	440.1	445.6	453.0	459.1	469.0	478.5
10°	388.6	394.7	401.5	409.0	418.2	426.3	434.1	443.4	450.8	462.7	473.8
12.5°	371.4	372.3	382.1	390.3	402.9	413.0	422.0	433.9	441.2	455.3	466.9
15°	341.4	346.9	355.8	362.2	377.2	390.0	402.7	415.1	423.4	440.8	456.2
17.5°	316.0	321.1	330.3	340.9	351.6	364.4	380.7	393.8	405.1	425.0	443.2
20°	300.0	306.3	315.6	326.5	336.0	349.8	363.9	379.0	391.2	413.6	434.9
22.5°	286.4	291.4	298.9	309.7	319.9	332.6	348.1	364.4	377.2	401.5	423.0
25°	267.3	271.3	276.1	285.0	296.7	310.6	322.6	340.6	359.3	381.9	408.0
27.5°	250.0	252.9	257.1	265.0	274.0	287.0	300.4	317.4	336.2	360.8	388.3
30°	239.5	241.3	245.6	252.1	261.0	271.2	284.7	300.9	320.2	345.0	372.4
32.5°	230.3	232.0	234.8	240.9	248.7	257.4	269.5	285.8	304.2	328.6	359.0
35°	216.5	217.8	220.2	225.2	229.5	238.0	248.2	263.0	280.2	303.5	335.0
37.5°	202.8	204.6	206.0	208.1	213.6	219.2	228.0	240.6	257.5	281.0	311.0
40°	193.7	195.2	197.5	198.4	202.8	207.8	215.0	226.5	243.5	265.1	294.3
42.5°	184.5	186.1	187.4	188.4	192.2	196.7	203.2	213.0	228.1	249.0	278.0
45°	172.0	172.3	173.6	175.6	177.4	180.6	185.2	193.7	205.4	225.0	251.4
47.5°	159.4	159.6	159.8	160.7	162.7	165.6	168.7	175.6	186.1	201.7	227.3
50°	150.9	150.6	150.9	151.6	153.0	155.4	158.9	163.9	172.4	187.0	210.6
52.5°	142.8	142.8	142.5	142.8	143.8	145.4	148.0	152.2	159.8	173.3	194.0
55°	130.4	129.5	129.6	128.9	130.6	130.9	132.8	136.3	143.0	152.2	171.7
57.5°	117.2	116.4	115.6	115.4	115.2	116.2	117.6	120.4	125.6	133.7	149.4
60°	108.7	107.8	106.6	106.3	106.3	106.9	107.6	109.7	114.5	121.6	134.6
62.5°	100.1	99.1	98.4	97.4	97.1	97.7	98.4	99.9	103.4	110.1	121.3
65°	86.8	85.5	84.6	84.5	84.1	83.6	83.9	85.4	88.1	93.5	102.4
67.5°	73.5	72.3	72.2	71.0	70.5	70.6	70.5	71.7	73.5	78.1	84.7
70°	64.8	63.9	63.5	62.6	62.2	61.9	61.5	62.6	64.2	68.2	73.9
72.5°	55.9	55.1	54.4	53.6	53.6	53.2	53.2	53.9	55.2	58.8	63.3
75°	43.1	43.4	42.4	41.5	41.3	40.9	40.9	41.5	42.1	44.8	48.3
77.5°	31.3	31.1	30.4	30.1	29.9	29.5	29.9	30.2	30.6	32.4	35.0
80°	23.9	23.9	23.0	23.0	22.7	22.3	22.7	22.4	23.2	25.0	26.8
82.5°	17.0	16.8	16.7	16.5	16.4	16.0	16.2	16.6	17.0	18.2	19.3
85°	8.3	8.3	8.2	8.0	8.2	8.0	8.2	8.3	8.5	9.0	10.0
87.5°	10.3	10.5	9.5	8.4	7.3	6.2	5.4	4.9	4.5	4.0	3.5
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: P331490-930

CATALOG NUMBER: S122DIW-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: P331490-930

CATALOG NUMBER: S122DIW-S290D1440U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	484.5	485.2	487.5	489.9	492.6	493.3	494.5	493.5	493.2	495.9	498.1
5°	485.8	489.1	495.6	501.6	506.5	510.1	513.8	515.3	518.0	521.9	526.8
7.5°	484.2	490.7	500.9	509.6	518.9	525.7	531.0	535.6	541.0	548.4	556.4
10°	482.5	491.1	503.6	514.1	525.6	534.3	541.5	548.6	556.8	567.0	577.5
12.5°	479.2	489.5	505.1	517.6	532.3	540.9	550.6	565.7	574.5	588.7	603.6
15°	472.6	484.1	505.8	521.1	537.9	554.2	572.1	586.5	601.0	609.4	630.2
17.5°	462.9	479.7	503.8	521.7	542.9	568.5	588.7	605.1	621.7	635.3	645.8
20°	455.0	473.4	500.8	522.3	547.5	575.0	598.2	614.9	629.3	640.7	647.1
22.5°	445.2	468.2	494.9	520.1	552.2	579.5	603.8	616.9	629.0	634.5	637.1
25°	429.5	457.3	487.5	518.2	554.5	583.4	605.6	613.6	617.1	611.7	602.8
27.5°	412.6	443.6	478.9	514.7	553.1	580.9	596.8	595.6	589.6	572.2	558.3
30°	400.1	434.1	472.1	511.2	549.7	576.7	586.0	576.7	563.2	543.8	523.9
32.5°	386.9	422.2	464.8	506.1	543.5	567.3	569.2	553.3	532.4	510.3	485.6
35°	366.9	405.0	451.2	494.9	530.3	545.3	536.4	508.2	483.4	453.2	419.5
37.5°	344.3	386.5	432.7	478.4	510.5	514.4	492.3	462.7	427.6	392.2	352.5
40°	327.4	372.1	419.7	465.8	494.2	490.1	461.9	429.3	387.7	344.3	307.4
42.5°	312.3	356.9	405.4	450.7	473.4	462.2	429.3	389.3	344.5	303.7	269.9
45°	286.2	332.1	381.7	425.4	438.4	418.2	374.7	330.2	286.2	252.1	225.4
47.5°	260.7	306.1	355.3	393.7	398.3	371.1	323.6	277.9	239.9	212.2	193.4
50°	242.1	287.6	336.3	370.6	369.1	336.3	287.5	243.9	212.2	189.8	177.2
52.5°	225.3	268.4	315.1	346.3	338.4	302.7	256.0	217.4	191.4	173.8	162.4
55°	199.3	239.1	283.6	308.6	294.1	254.5	215.0	183.9	164.6	151.5	142.6
57.5°	173.4	210.8	248.8	264.2	248.3	211.7	178.8	156.2	141.7	132.0	126.2
60°	157.4	190.0	223.9	237.3	218.2	185.6	159.6	139.5	127.8	119.8	114.6
62.5°	141.5	170.6	202.6	209.9	192.4	164.9	141.9	125.1	115.5	108.4	103.5
65°	119.6	143.6	167.8	172.6	156.5	135.2	117.1	106.2	97.6	92.5	88.5
67.5°	98.2	117.3	134.5	138.4	124.3	109.5	96.4	86.8	81.1	76.8	73.5
70°	85.4	100.6	114.6	117.8	106.5	93.4	83.3	75.7	70.5	66.9	63.7
72.5°	71.9	84.5	96.3	98.4	89.2	79.1	70.9	64.9	60.3	58.0	55.0
75°	55.0	62.5	71.5	72.1	66.0	59.8	53.6	49.7	47.2	44.3	42.8
77.5°	38.8	44.6	49.8	50.8	47.2	43.0	39.5	36.4	34.4	33.0	31.6
80°	29.6	34.2	36.5	37.7	35.2	32.2	30.2	28.1	26.8	25.9	25.0
82.5°	21.2	24.1	26.1	27.1	25.7	23.9	21.9	20.7	19.7	19.0	18.7
85°	10.8	12.1	13.4	13.7	13.4	12.6	11.5	11.5	10.9	10.8	10.8
87.5°	4.6	5.9	6.5	7.6	8.2	9.5	10.7	11.7	12.7	12.5	12.2
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: P331490-930

CATALOG NUMBER: S122DIW-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: P331490-930

CATALOG NUMBER: S122DIW-S290D1440U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	499.9	501.9	501.9	502.2	504.6	504.3	504.1
5°	531.9	535.1	535.4	538.7	541.0	540.2	538.2
7.5°	562.1	568.0	572.5	574.9	577.9	579.7	578.9
10°	586.2	594.7	599.9	603.4	607.6	610.8	609.7
12.5°	608.0	618.1	625.3	631.3	631.8	635.9	633.1
15°	642.0	652.6	653.8	658.2	661.8	661.4	661.5
17.5°	653.1	656.6	657.3	657.4	657.5	656.2	653.3
20°	649.1	647.8	644.7	642.3	638.1	637.5	633.8
22.5°	630.1	626.1	618.2	612.9	606.3	604.6	603.6
25°	592.9	583.8	571.2	559.1	555.8	549.3	551.1
27.5°	541.6	527.5	513.8	504.1	495.2	485.5	488.3
30°	505.6	489.7	470.4	455.6	446.1	436.9	435.2
32.5°	462.7	439.3	417.8	404.8	390.3	384.4	378.1
35°	388.6	365.7	344.5	326.1	315.6	307.4	300.0
37.5°	322.0	295.7	278.5	263.7	256.0	251.4	252.6
40°	280.6	257.6	245.0	233.7	226.7	223.4	224.1
42.5°	247.1	229.9	219.6	211.8	206.8	205.0	204.6
45°	209.1	199.5	190.9	186.5	184.1	182.1	180.8
47.5°	183.2	175.3	170.5	167.9	165.8	163.7	163.6
50°	167.6	162.4	159.1	156.3	154.7	153.2	154.5
52.5°	155.7	151.0	147.7	145.2	144.6	143.2	143.2
55°	138.2	134.4	132.1	129.8	128.7	128.0	127.0
57.5°	122.1	118.6	116.4	115.0	112.9	112.2	111.9
60°	110.7	107.9	105.7	103.9	103.0	101.5	101.5
62.5°	100.2	97.4	95.4	94.0	92.5	91.9	92.0
65°	85.0	82.8	80.7	79.2	78.9	77.8	78.2
67.5°	71.0	69.5	67.3	66.5	65.9	65.3	64.8
70°	61.6	60.2	59.1	58.0	57.4	57.4	57.4
72.5°	53.8	52.0	51.4	50.0	50.3	49.7	49.1
75°	41.7	40.5	40.0	39.5	38.6	38.6	38.6
77.5°	30.7	30.3	29.7	29.1	28.9	28.7	28.8
80°	23.7	23.5	23.2	23.2	22.7	22.6	22.3
82.5°	18.3	17.8	17.5	17.4	17.3	17.3	17.2
85°	10.4	10.0	10.0	10.2	9.8	9.8	10.0
87.5°	12.3	12.1	12.0	12.1	12.2	12.1	12.2
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: P331490-930

CATALOG NUMBER: S122DIW-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)