

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: P331484

Luminaire Tested: **S122DIW-S290D1240U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331484
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-S290D1240U835-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1240 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5606.6 lumens
Efficiency: N/A
Efficacy: 120.3 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

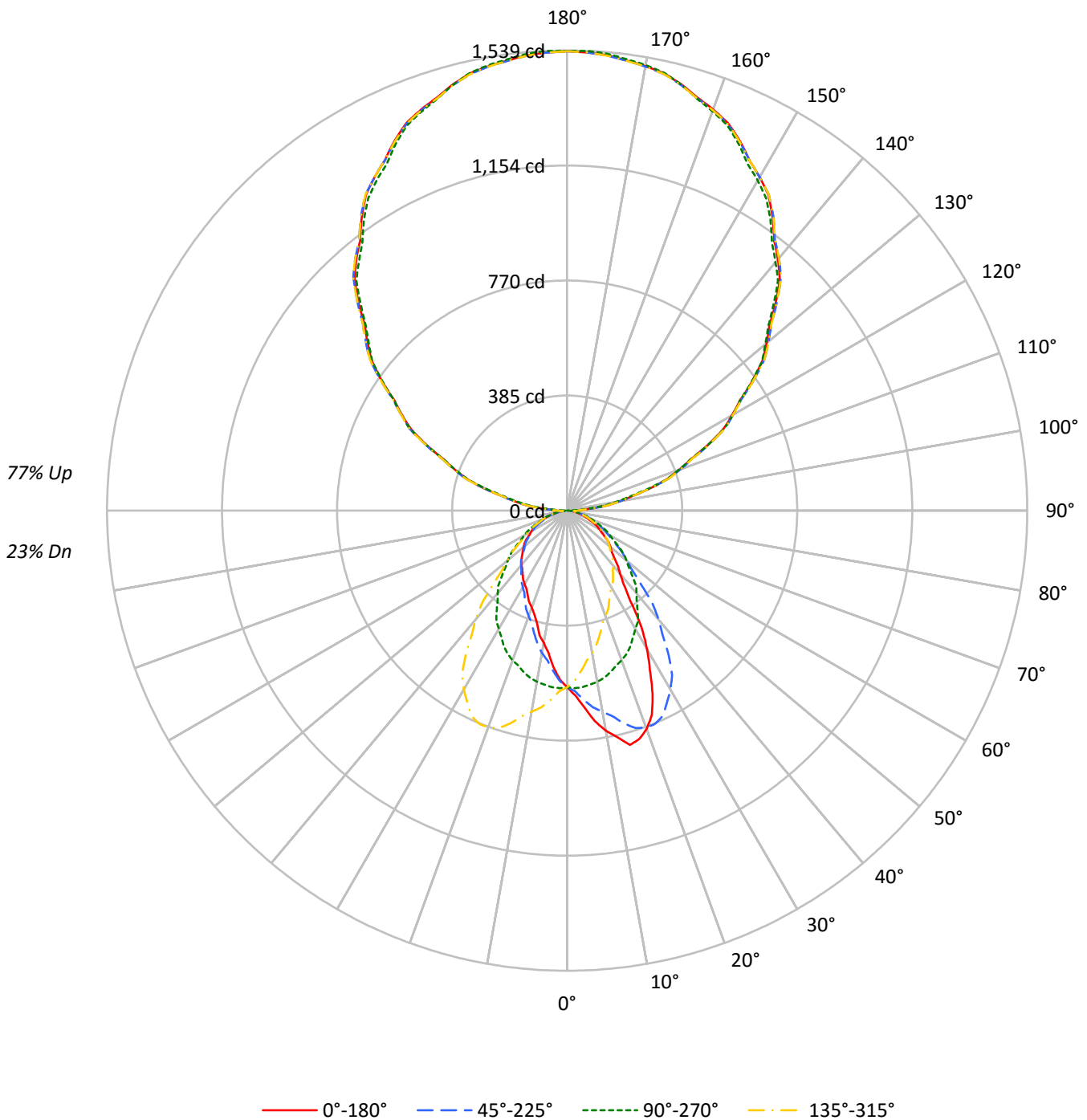
Input Watts (W): 46.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	23
1	92	88	84	81	82	78	75	73	60	58	56	44	42	41	28	28	27	20
2	84	77	71	66	74	69	64	60	53	50	47	38	36	35	25	24	23	17
3	77	68	61	55	68	61	55	50	47	43	40	34	32	30	22	21	20	15
4	70	60	53	47	62	54	47	43	42	37	34	31	28	25	20	19	17	13
5	64	53	46	40	57	48	41	36	37	33	29	27	24	22	18	17	15	11
6	59	48	40	35	52	43	36	32	34	29	25	25	22	19	17	15	13	10
7	55	43	36	30	48	39	32	28	30	26	22	23	19	17	15	13	12	9
8	51	39	32	27	45	35	29	24	28	23	20	21	17	15	14	12	11	8
9	47	35	28	24	42	32	26	22	25	21	18	19	16	14	13	11	10	7
10	44	32	26	21	39	29	23	19	23	19	16	17	14	12	12	10	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9544	9544	9544	9544
5°	10699	9606	8512	9606
10°	12260	9527	7366	9527
15°	13563	9352	6509	9352
20°	13357	9165	5933	9165
25°	12043	8915	5569	8915
30°	9952	8516	5302	8516
35°	7253	8099	5113	8099
40°	5794	7609	5008	7609
45°	5062	7040	4866	7040
50°	4760	6488	4770	6488
55°	4386	5928	4642	5928
60°	4020	5331	4447	5331
65°	3664	4798	4252	4798
70°	3323	4277	3970	4277
75°	2951	3699	3512	3699
80°	2538	3059	2827	3059
85°	2279	2279	1686	2279



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	1.0
10°-20°	163.7	2.9
20°-30°	237.5	4.2
30°-40°	250.6	4.5
40°-50°	221.9	4.0
50°-60°	177.1	3.2
60°-70°	120.4	2.1
70°-80°	61.7	1.1
80°-90°	21.0	0.4
90°-100°	97.4	1.7
100°-110°	302.4	5.4
110°-120°	516.9	9.2
120°-130°	679.7	12.1
130°-140°	762.9	13.6
140°-150°	748.1	13.3
150°-160°	627.4	11.2
160°-170°	416.2	7.4
170°-180°	145.5	2.6
0°-30°	457.5	8.2
0°-40°	708.1	12.6
0°-60°	1107.1	19.7
0°-90°	1310.2	23.4
90°-120°	916.6	16.3
90°-150°	3107.4	55.4
90°-180°	4296.0	76.6
0°-180°	5606.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	591	591	591	591	591	
5°	660	593	525	593	660	66
15°	811	560	389	560	811	224
25°	676	500	313	500	676	306
35°	368	411	259	411	368	239
45°	222	308	213	308	222	174
55°	156	211	165	211	156	140
65°	96	126	111	126	96	95
75°	47	59	56	59	47	51
85°	12	12	9	12	12	15
90°	44	1	44	1	44	20
95°	80	67	80	67	80	90
105°	288	279	288	279	288	303
115°	519	519	519	519	519	512
125°	757	755	757	755	757	675
135°	988	976	988	976	988	761
145°	1198	1185	1198	1185	1198	748
155°	1365	1355	1365	1355	1365	628
165°	1476	1474	1476	1474	1476	416
175°	1529	1534	1529	1534	1529	145
180°	1536	1536	1536	1536	1536	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	618.3	618.5	618.9	616.0	615.6	615.6	613.1	610.9	608.3	604.9	605.3
5°	660.1	662.6	663.5	660.8	656.7	656.3	652.4	646.1	640.1	635.4	632.0
7.5°	710.0	711.0	708.8	705.2	702.2	696.7	689.5	682.5	672.6	663.6	656.9
10°	747.8	749.2	745.3	740.1	735.8	729.4	719.0	708.3	695.4	682.9	672.9
12.5°	776.5	779.9	774.9	774.3	766.9	758.1	745.7	740.3	722.1	704.7	693.9
15°	811.4	811.2	811.7	807.3	801.9	800.5	787.4	773.0	747.4	737.1	719.4
17.5°	801.3	804.8	806.4	806.3	806.2	805.3	801.1	792.1	779.2	762.6	742.2
20°	777.4	781.9	782.6	787.8	790.8	794.6	796.2	793.7	785.8	771.9	754.2
22.5°	740.3	741.6	743.7	751.8	758.2	767.9	772.9	781.4	778.3	771.5	756.7
25°	676.0	673.8	681.7	685.8	700.6	716.0	727.2	739.4	750.3	756.9	752.6
27.5°	598.9	595.5	607.4	618.3	630.2	647.0	664.3	684.8	701.8	723.2	730.5
30°	533.8	535.9	547.2	558.8	577.0	600.6	620.2	642.6	667.0	690.8	707.4
32.5°	463.7	471.5	478.7	496.5	512.5	538.8	567.5	595.6	625.9	653.0	678.7
35°	368.0	377.1	387.1	400.0	422.5	448.6	476.6	514.5	555.9	592.9	623.3
37.5°	309.8	308.3	314.0	323.4	341.6	362.7	394.9	432.3	481.0	524.5	567.5
40°	274.9	274.0	278.0	286.7	300.5	316.0	344.2	377.1	422.3	475.5	526.6
42.5°	250.9	251.4	253.7	259.8	269.3	282.0	303.1	331.1	372.5	422.6	477.5
45°	221.7	223.3	225.8	228.8	234.2	244.7	256.5	276.5	309.2	351.0	405.0
47.5°	200.7	200.8	203.3	205.9	209.1	215.0	224.7	237.2	260.3	294.3	340.8
50°	189.5	187.9	189.7	191.7	195.1	199.2	205.6	217.4	232.8	260.3	299.2
52.5°	175.6	175.7	177.3	178.1	181.1	185.2	191.0	199.2	213.2	234.7	266.6
55°	155.8	157.0	157.9	159.2	162.0	164.9	169.5	174.9	185.8	201.9	225.6
57.5°	137.2	137.6	138.5	141.1	142.8	145.5	149.8	154.8	161.9	173.8	191.6
60°	124.5	124.5	126.3	127.4	129.7	132.4	135.8	140.6	147.0	156.7	171.1
62.5°	112.9	112.7	113.4	115.3	117.0	119.5	122.9	127.0	133.0	141.7	153.4
65°	95.9	95.4	96.8	97.2	99.0	101.5	104.3	108.6	113.4	119.7	130.2
67.5°	79.5	80.1	80.8	81.6	82.6	85.3	87.1	90.1	94.2	99.5	106.5
70°	70.4	70.4	70.4	71.1	72.5	73.8	75.6	78.1	82.0	86.5	92.9
72.5°	60.2	61.0	61.7	61.3	63.0	63.8	66.0	67.4	71.1	74.0	79.6
75°	47.3	47.3	47.3	48.4	49.1	49.7	51.1	52.5	54.3	57.9	60.9
77.5°	35.3	35.2	35.4	35.7	36.4	37.2	37.6	38.8	40.5	42.2	44.7
80°	27.3	27.7	27.9	28.4	28.4	28.8	29.1	30.7	31.8	32.9	34.5
82.5°	21.1	21.2	21.2	21.3	21.5	21.8	22.4	22.9	23.3	24.2	25.4
85°	12.3	12.0	12.0	12.5	12.3	12.3	12.7	13.2	13.2	13.4	14.1
87.5°	13.5	13.5	13.6	13.4	13.3	13.5	13.6	13.6	13.9	14.2	13.1
90°	44.1	43.8	43.5	43.2	42.9	43.1	43.7	44.2	44.8	45.4	39.0
92.5°	42.0	42.0	41.9	41.8	41.8	41.7	41.6	41.5	41.3	41.2	39.7
95°	80.4	81.0	81.5	82.1	82.7	83.0	83.0	83.0	83.0	83.0	82.4
97.5°	139.3	139.3	139.4	139.4	139.5	139.5	139.5	139.5	139.5	139.5	138.4
100°	177.6	177.9	178.2	178.5	178.8	178.9	178.9	178.9	178.9	178.9	178.1
102.5°	221.2	221.5	221.8	222.1	222.4	222.4	222.2	221.9	221.7	221.5	220.4
105°	287.9	287.9	287.9	287.9	287.9	287.6	287.0	286.4	285.8	285.3	284.7
107.5°	350.6	351.9	353.3	354.6	355.9	356.5	356.2	356.0	355.8	355.5	355.5
110°	399.4	400.2	401.1	402.0	402.8	403.3	403.3	403.3	403.3	403.3	403.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	446.0	446.7	447.3	447.9	448.6	449.2	449.9	450.6	451.3	452.0	452.2
115°	518.7	519.5	520.4	521.3	522.1	522.7	523.0	523.3	523.6	523.8	524.4
117.5°	587.9	588.8	589.6	590.5	591.4	592.1	592.8	593.5	594.2	594.9	596.5
120°	636.7	637.5	638.4	639.2	640.1	640.5	640.5	640.5	640.5	640.5	642.8
122.5°	684.4	685.0	685.6	686.3	686.9	687.6	688.3	689.0	689.6	690.3	691.9
125°	757.2	757.5	757.8	758.1	758.4	759.0	759.8	760.7	761.6	762.4	763.3
127.5°	823.6	824.6	825.5	826.4	827.3	828.3	829.3	830.4	831.4	832.4	833.5
130°	871.3	872.5	873.7	874.8	876.0	876.8	877.4	878.0	878.5	879.1	879.7
132.5°	917.0	917.9	918.8	919.8	920.7	921.8	923.0	924.3	925.6	926.8	926.7
135°	988.0	988.9	989.8	990.6	991.5	992.1	992.4	992.7	992.9	993.2	992.7
137.5°	1052.4	1053.5	1054.7	1055.8	1057.0	1057.7	1057.9	1058.1	1058.4	1058.6	1057.8
140°	1097.0	1098.1	1099.3	1100.4	1101.6	1102.1	1102.1	1102.1	1102.1	1102.1	1100.7
142.5°	1137.4	1138.6	1139.7	1140.9	1142.0	1142.5	1142.3	1142.0	1141.8	1141.6	1140.6
145°	1198.1	1199.3	1200.4	1201.6	1202.7	1203.1	1202.9	1202.6	1202.3	1202.0	1200.3
147.5°	1252.3	1253.4	1254.5	1255.6	1256.7	1256.9	1256.3	1255.6	1255.0	1254.4	1253.2
150°	1287.6	1288.4	1289.3	1290.2	1291.0	1291.0	1290.2	1289.3	1288.4	1287.6	1286.4
152.5°	1320.8	1321.9	1323.0	1324.0	1325.1	1325.1	1324.0	1323.0	1321.9	1320.8	1319.4
155°	1365.4	1366.2	1367.1	1368.0	1368.8	1368.5	1367.1	1365.7	1364.2	1362.8	1361.9
157.5°	1403.7	1405.1	1406.5	1407.9	1409.3	1409.0	1407.0	1405.1	1403.1	1401.2	1400.6
160°	1427.6	1428.8	1429.9	1431.1	1432.2	1431.9	1430.2	1428.5	1426.7	1425.0	1424.7
162.5°	1448.4	1449.7	1451.1	1452.5	1453.9	1453.6	1451.6	1449.7	1447.7	1445.8	1445.5
165°	1475.6	1477.0	1478.5	1479.9	1481.3	1481.1	1479.0	1477.0	1475.0	1473.0	1473.0
167.5°	1497.9	1499.4	1500.9	1502.4	1503.9	1503.6	1501.6	1499.6	1497.6	1495.5	1495.6
170°	1509.3	1511.0	1512.8	1514.5	1516.2	1516.1	1514.0	1512.0	1510.0	1508.0	1508.3
172.5°	1518.6	1520.4	1522.1	1523.8	1525.5	1525.4	1523.4	1521.4	1519.4	1517.3	1517.6
175°	1528.7	1530.5	1532.2	1533.9	1535.7	1535.5	1533.5	1531.5	1529.5	1527.4	1528.0
177.5°	1533.4	1534.8	1536.2	1537.6	1538.9	1538.9	1537.6	1536.2	1534.8	1533.4	1533.9
180°	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	606.5	605.1	604.2	600.9	598.0	595.1	594.2	594.5	590.5	586.7	585.1
5°	630.2	625.6	621.3	615.2	607.9	599.9	595.9	592.7	584.7	576.1	571.1
7.5°	651.3	644.8	636.5	625.0	614.4	601.9	593.9	586.9	575.3	563.1	555.6
10°	664.2	655.4	644.7	630.6	617.7	602.4	591.8	581.1	567.5	552.9	543.8
12.5°	675.3	663.4	652.9	634.8	619.5	600.4	587.8	572.7	558.4	541.1	532.2
15°	701.7	679.7	659.7	639.2	620.4	593.8	579.7	559.5	540.7	519.3	509.1
17.5°	722.1	697.3	665.9	639.9	617.9	588.4	567.8	543.6	521.3	496.9	483.0
20°	733.7	705.3	671.5	640.6	614.3	580.6	558.1	533.4	507.3	479.8	464.8
22.5°	740.6	710.8	677.3	637.9	607.0	574.3	546.0	518.8	492.4	462.7	447.0
25°	742.8	715.6	680.1	635.6	597.9	560.9	526.8	500.4	468.4	440.7	417.8
27.5°	732.0	712.5	678.4	631.3	587.4	544.1	506.1	476.3	442.5	412.4	389.3
30°	718.7	707.4	674.2	627.0	579.0	532.5	490.7	456.8	423.2	392.8	369.1
32.5°	698.2	695.8	666.6	620.8	570.1	517.8	474.5	440.3	403.0	373.1	350.6
35°	657.9	668.8	650.4	607.0	553.4	496.8	450.0	410.9	372.3	343.7	322.6
37.5°	603.8	630.9	626.1	586.8	530.7	474.0	422.3	381.5	344.7	315.8	295.1
40°	566.5	601.1	606.1	571.3	514.8	456.4	401.6	361.0	325.1	298.7	277.8
42.5°	526.6	566.9	580.6	552.8	497.3	437.8	383.1	341.0	305.4	279.8	261.3
45°	459.6	512.9	537.7	521.8	468.2	407.3	351.0	308.3	276.0	251.9	237.6
47.5°	396.9	455.2	488.5	482.9	435.8	375.5	319.8	278.8	247.4	228.2	215.4
50°	352.6	412.5	452.7	454.6	412.5	352.8	296.9	258.3	229.4	211.5	201.0
52.5°	314.0	371.3	415.1	424.8	386.5	329.2	276.4	237.9	212.5	196.0	186.7
55°	263.7	312.1	360.7	378.5	347.8	293.3	244.4	210.6	186.7	175.4	167.2
57.5°	219.3	259.6	304.5	324.1	305.2	258.5	212.7	183.3	164.0	154.0	147.7
60°	195.8	227.6	267.6	291.0	274.6	233.1	193.1	165.1	149.2	140.4	134.5
62.5°	174.0	202.2	236.0	257.4	248.5	209.3	173.5	148.8	135.1	126.8	122.5
65°	143.6	165.8	192.0	211.7	205.8	176.1	146.7	125.6	114.7	108.1	104.7
67.5°	118.2	134.3	152.4	169.7	165.0	143.9	120.4	103.9	95.8	90.1	88.0
70°	102.2	114.5	130.6	144.5	140.6	123.4	104.7	90.6	83.6	78.8	76.8
72.5°	87.0	97.0	109.4	120.7	118.1	103.7	88.2	77.6	72.1	67.7	66.1
75°	65.7	73.4	80.9	88.4	87.7	76.6	67.5	59.3	55.0	51.6	50.9
77.5°	48.5	52.8	57.9	62.3	61.1	54.7	47.6	42.9	39.8	37.5	37.1
80°	37.0	39.5	43.2	46.3	44.8	42.0	36.3	32.9	30.7	28.4	27.5
82.5°	26.9	29.3	31.5	33.3	32.0	29.5	26.0	23.7	22.3	20.8	20.4
85°	14.1	15.4	16.4	16.8	16.4	14.8	13.2	12.3	11.1	10.4	10.2
87.5°	12.0	10.7	9.5	8.8	7.6	6.9	5.5	4.3	4.8	5.3	5.6
90°	32.7	26.4	20.0	15.1	11.7	8.2	4.8	1.3	4.8	8.2	11.7
92.5°	38.2	36.7	35.2	33.2	30.7	28.2	25.6	23.1	25.6	28.2	30.7
95°	81.8	81.3	80.7	79.0	76.1	73.2	70.3	67.4	70.3	73.2	76.1
97.5°	137.3	136.2	135.1	133.3	130.8	128.3	125.7	123.2	125.7	128.3	130.8
100°	177.2	176.3	175.5	173.9	171.6	169.3	167.0	164.7	167.0	169.3	171.6
102.5°	219.3	218.2	217.1	215.6	213.8	211.9	210.1	208.2	210.1	211.9	213.8
105°	284.1	283.5	283.0	282.2	281.4	280.5	279.6	278.8	279.6	280.5	281.4
107.5°	355.5	355.5	355.5	354.9	353.6	352.4	351.1	349.8	351.1	352.4	353.6
110°	403.3	403.3	403.3	402.4	400.7	398.9	397.2	395.5	397.2	398.9	400.7



TEST NUMBER: P331484

CATALOG NUMBER: S122DIW-S290D1240U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	452.5	452.7	452.9	452.2	450.5	448.7	447.0	445.3	447.0	448.7	450.5
115°	525.0	525.6	526.1	525.6	523.8	522.1	520.4	518.7	520.4	522.1	523.8
117.5°	598.1	599.7	601.4	601.0	598.7	596.4	594.1	591.8	594.1	596.4	598.7
120°	645.2	647.5	649.8	649.8	647.5	645.2	642.8	640.5	642.8	645.2	647.5
122.5°	693.6	695.2	696.8	696.2	693.4	690.7	687.9	685.1	687.9	690.7	693.4
125°	764.2	765.0	765.9	765.0	762.4	759.8	757.2	754.6	757.2	759.8	762.4
127.5°	834.5	835.6	836.6	835.5	832.2	828.9	825.6	822.3	825.6	828.9	832.2
130°	880.3	880.9	881.4	879.8	876.1	872.4	868.6	864.9	868.6	872.4	876.1
132.5°	926.6	926.5	926.4	924.8	921.7	918.7	915.6	912.6	915.6	918.7	921.7
135°	992.1	991.5	990.9	989.1	985.9	982.7	979.5	976.4	979.5	982.7	985.9
137.5°	1057.1	1056.3	1055.6	1053.9	1051.3	1048.7	1046.1	1043.5	1046.1	1048.7	1051.3
140°	1099.3	1097.8	1096.4	1094.4	1091.8	1089.2	1086.6	1084.0	1086.6	1089.2	1091.8
142.5°	1139.6	1138.6	1137.6	1135.9	1133.3	1130.7	1128.1	1125.5	1128.1	1130.7	1133.3
145°	1198.5	1196.8	1195.1	1193.2	1191.2	1189.2	1187.2	1185.1	1187.2	1189.2	1191.2
147.5°	1252.1	1250.9	1249.8	1248.0	1245.6	1243.1	1240.7	1238.3	1240.7	1243.1	1245.6
150°	1285.3	1284.1	1283.0	1281.5	1279.8	1278.1	1276.3	1274.6	1276.3	1278.1	1279.8
152.5°	1318.0	1316.6	1315.2	1313.7	1311.9	1310.2	1308.5	1306.8	1308.5	1310.2	1311.9
155°	1361.0	1360.2	1359.3	1358.5	1357.6	1356.7	1355.9	1355.0	1355.9	1356.7	1357.6
157.5°	1400.1	1399.6	1399.1	1398.5	1398.0	1397.4	1396.8	1396.2	1396.8	1397.4	1398.0
160°	1424.4	1424.1	1423.9	1423.4	1422.9	1422.3	1421.7	1421.1	1421.7	1422.3	1422.9
162.5°	1445.2	1444.9	1444.6	1444.4	1444.3	1444.2	1444.1	1443.9	1444.1	1444.2	1444.3
165°	1473.0	1473.0	1473.0	1473.1	1473.4	1473.7	1474.0	1474.3	1474.0	1473.7	1473.4
167.5°	1495.7	1495.7	1495.8	1496.2	1497.1	1498.0	1498.8	1499.7	1498.8	1498.0	1497.1
170°	1508.6	1508.9	1509.2	1509.7	1510.6	1511.5	1512.3	1513.2	1512.3	1511.5	1510.6
172.5°	1517.9	1518.2	1518.5	1519.1	1519.9	1520.8	1521.7	1522.5	1521.7	1520.8	1519.9
175°	1528.6	1529.2	1529.8	1530.5	1531.3	1532.2	1533.1	1533.9	1533.1	1532.2	1531.3
177.5°	1534.3	1534.8	1535.3	1535.8	1536.5	1537.2	1537.9	1538.6	1537.9	1537.2	1536.5
180°	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5



TEST NUMBER: P331484

CATALOG NUMBER: S122DIW-S290D1240U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	583.3	582.2	578.4	576.4	573.1	570.0	568.0	568.9	569.6	569.3	568.7
5°	566.5	562.2	555.6	550.0	545.9	538.4	535.2	533.6	532.2	530.7	529.1
7.5°	546.6	539.8	530.4	522.3	514.7	505.3	500.0	496.9	493.6	490.0	486.8
10°	532.5	522.9	512.9	501.6	492.5	484.1	476.6	471.6	467.0	462.7	459.6
12.5°	517.6	506.6	494.2	478.7	468.7	456.6	455.5	446.7	439.6	436.9	433.2
15°	493.9	478.4	462.7	444.3	436.4	425.5	418.7	411.8	405.7	401.4	400.3
17.5°	466.9	446.9	431.3	418.1	405.1	393.9	387.6	382.2	377.1	371.4	370.6
20°	446.4	429.1	412.1	400.5	387.1	375.7	368.0	362.6	358.2	354.8	351.9
22.5°	426.9	408.0	392.4	379.8	366.6	357.4	351.3	346.0	342.4	338.7	335.9
25°	395.7	381.0	363.9	349.6	338.7	332.8	327.8	323.3	321.0	318.5	315.3
27.5°	368.4	352.0	336.1	325.0	315.4	310.2	306.6	303.5	301.4	299.9	298.1
30°	349.2	332.6	320.1	309.2	301.2	296.0	293.7	291.9	289.4	288.5	287.6
32.5°	330.6	315.7	305.0	295.5	288.0	284.5	282.5	280.8	278.9	278.0	276.1
35°	304.4	291.9	281.5	276.2	270.1	267.1	265.6	263.3	261.5	260.6	260.3
37.5°	279.7	268.9	262.0	255.3	252.7	250.9	248.7	247.2	246.6	246.5	246.2
40°	263.7	254.9	248.7	243.3	242.2	239.4	237.6	236.3	236.3	236.5	236.3
42.5°	249.2	241.2	235.8	231.1	229.8	228.2	226.3	226.3	226.6	227.4	226.6
45°	227.2	221.5	217.6	215.4	212.9	211.3	211.0	211.7	211.9	212.2	212.9
47.5°	206.9	203.1	199.6	197.1	196.0	195.8	195.5	196.7	197.8	198.2	199.2
50°	194.9	190.6	187.6	186.0	185.1	184.7	185.1	186.5	187.4	188.5	189.2
52.5°	181.5	178.4	176.4	175.1	174.8	175.1	175.1	176.7	178.1	178.6	178.9
55°	162.9	160.6	160.2	158.1	159.0	158.8	159.9	160.8	162.2	163.6	163.8
57.5°	144.3	142.5	141.3	141.5	141.8	142.8	143.7	145.3	146.7	148.2	148.3
60°	132.0	131.1	130.4	130.4	130.8	132.2	133.3	134.9	135.8	136.8	137.4
62.5°	120.7	119.8	119.1	119.5	120.7	121.5	122.8	123.7	124.6	125.5	125.8
65°	102.9	102.5	103.1	103.6	103.8	104.9	106.5	107.2	108.1	108.6	110.2
67.5°	86.5	86.6	86.5	87.1	88.5	88.7	90.2	91.8	92.0	92.9	93.9
70°	75.4	75.9	76.3	76.8	77.9	78.4	79.5	80.2	81.1	81.8	82.5
72.5°	65.2	65.3	65.8	65.7	66.7	67.6	68.6	69.3	70.2	71.1	71.7
75°	50.2	50.2	50.7	50.9	52.0	53.2	52.9	53.4	54.3	55.2	55.7
77.5°	36.7	36.2	36.7	36.9	37.3	38.2	38.4	39.0	40.1	39.8	40.3
80°	27.9	27.3	27.9	28.2	28.2	29.3	29.3	29.8	30.4	29.8	30.4
82.5°	19.9	19.6	20.1	20.2	20.5	20.6	20.9	21.0	21.7	21.4	21.7
85°	10.0	9.8	10.0	9.8	10.0	10.2	10.2	10.0	10.0	10.4	9.8
87.5°	6.1	6.9	8.0	9.3	10.4	11.4	11.1	11.0	10.9	10.4	10.4
90°	15.1	20.0	26.4	32.7	39.0	45.4	44.8	44.2	43.7	43.1	42.9
92.5°	33.2	35.2	36.7	38.2	39.7	41.2	41.3	41.5	41.6	41.7	41.8
95°	79.0	80.7	81.3	81.8	82.4	83.0	83.0	83.0	83.0	83.0	82.7
97.5°	133.3	135.1	136.2	137.3	138.4	139.5	139.5	139.5	139.5	139.5	139.5
100°	173.9	175.5	176.3	177.2	178.1	178.9	178.9	178.9	178.9	178.9	178.8
102.5°	215.6	217.1	218.2	219.3	220.4	221.5	221.7	221.9	222.2	222.4	222.4
105°	282.2	283.0	283.5	284.1	284.7	285.3	285.8	286.4	287.0	287.6	287.9
107.5°	354.9	355.5	355.5	355.5	355.5	355.5	355.8	356.0	356.2	356.5	355.9
110°	402.4	403.3	403.3	403.3	403.3	403.3	403.3	403.3	403.3	403.3	402.8



TEST NUMBER: P331484

CATALOG NUMBER: S122DIW-S290D1240U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	452.2	452.9	452.7	452.5	452.2	452.0	451.3	450.6	449.9	449.2	448.6
115°	525.6	526.1	525.6	525.0	524.4	523.8	523.6	523.3	523.0	522.7	522.1
117.5°	601.0	601.4	599.7	598.1	596.5	594.9	594.2	593.5	592.8	592.1	591.4
120°	649.8	649.8	647.5	645.2	642.8	640.5	640.5	640.5	640.5	640.5	640.1
122.5°	696.2	696.8	695.2	693.6	691.9	690.3	689.6	689.0	688.3	687.6	686.9
125°	765.0	765.9	765.0	764.2	763.3	762.4	761.6	760.7	759.8	759.0	758.4
127.5°	835.5	836.6	835.6	834.5	833.5	832.4	831.4	830.4	829.3	828.3	827.3
130°	879.8	881.4	880.9	880.3	879.7	879.1	878.5	878.0	877.4	876.8	876.0
132.5°	924.8	926.4	926.5	926.6	926.7	926.8	925.6	924.3	923.0	921.8	920.7
135°	989.1	990.9	991.5	992.1	992.7	993.2	992.9	992.7	992.4	992.1	991.5
137.5°	1053.9	1055.6	1056.3	1057.1	1057.8	1058.6	1058.4	1058.1	1057.9	1057.7	1057.0
140°	1094.4	1096.4	1097.8	1099.3	1100.7	1102.1	1102.1	1102.1	1102.1	1102.1	1101.6
142.5°	1135.9	1137.6	1138.6	1139.6	1140.6	1141.6	1141.8	1142.0	1142.3	1142.5	1142.0
145°	1193.2	1195.1	1196.8	1198.5	1200.3	1202.0	1202.3	1202.6	1202.9	1203.1	1202.7
147.5°	1248.0	1249.8	1250.9	1252.1	1253.2	1254.4	1255.0	1255.6	1256.3	1256.9	1256.7
150°	1281.5	1283.0	1284.1	1285.3	1286.4	1287.6	1288.4	1289.3	1290.2	1291.0	1291.0
152.5°	1313.7	1315.2	1316.6	1318.0	1319.4	1320.8	1321.9	1323.0	1324.0	1325.1	1325.1
155°	1358.5	1359.3	1360.2	1361.0	1361.9	1362.8	1364.2	1365.7	1367.1	1368.5	1368.8
157.5°	1398.5	1399.1	1399.6	1400.1	1400.6	1401.2	1403.1	1405.1	1407.0	1409.0	1409.3
160°	1423.4	1423.9	1424.1	1424.4	1424.7	1425.0	1426.7	1428.5	1430.2	1431.9	1432.2
162.5°	1444.4	1444.6	1444.9	1445.2	1445.5	1445.8	1447.7	1449.7	1451.6	1453.6	1453.9
165°	1473.1	1473.0	1473.0	1473.0	1473.0	1473.0	1475.0	1477.0	1479.0	1481.1	1481.3
167.5°	1496.2	1495.8	1495.7	1495.7	1495.6	1495.5	1497.6	1499.6	1501.6	1503.6	1503.9
170°	1509.7	1509.2	1508.9	1508.6	1508.3	1508.0	1510.0	1512.0	1514.0	1516.1	1516.2
172.5°	1519.1	1518.5	1518.2	1517.9	1517.6	1517.3	1519.4	1521.4	1523.4	1525.4	1525.5
175°	1530.5	1529.8	1529.2	1528.6	1528.0	1527.4	1529.5	1531.5	1533.5	1535.5	1535.7
177.5°	1535.8	1535.3	1534.8	1534.3	1533.9	1533.4	1534.8	1536.2	1537.6	1538.9	1538.9
180°	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5



TEST NUMBER: P331484

CATALOG NUMBER: S122DIW-S290D1240U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	566.9	566.5	566.5	564.9	566.5	566.5	566.9	568.7	569.3	569.6	568.9
5°	525.9	525.2	524.1	525.2	524.1	525.2	525.9	529.1	530.7	532.2	533.6
7.5°	485.3	482.6	482.2	479.5	482.2	482.6	485.3	486.8	490.0	493.6	496.9
10°	455.7	453.9	453.6	449.3	453.6	453.9	455.7	459.6	462.7	467.0	471.6
12.5°	433.2	428.8	429.7	427.2	429.7	428.8	433.2	433.2	436.9	439.6	446.7
15°	394.1	394.1	393.2	389.4	393.2	394.1	394.1	400.3	401.4	405.7	411.8
17.5°	366.1	365.6	363.5	364.6	363.5	365.6	366.1	370.6	371.4	377.1	382.2
20°	349.4	348.0	345.3	345.3	345.3	348.0	349.4	351.9	354.8	358.2	362.6
22.5°	333.6	333.5	330.6	331.5	330.6	333.5	333.6	335.9	338.7	342.4	346.0
25°	315.1	313.3	311.9	312.6	311.9	313.3	315.1	315.3	318.5	321.0	323.3
27.5°	297.5	296.5	296.4	294.6	296.4	296.5	297.5	298.1	299.9	301.4	303.5
30°	287.4	285.1	285.5	284.4	285.5	285.1	287.4	287.6	288.5	289.4	291.9
32.5°	275.7	274.9	274.5	273.5	274.5	274.9	275.7	276.1	278.0	278.9	280.8
35°	259.9	260.1	259.0	259.4	259.0	260.1	259.9	260.3	260.6	261.5	263.3
37.5°	246.0	246.7	246.2	246.3	246.2	246.7	246.0	246.2	246.5	246.6	247.2
40°	236.9	236.9	236.9	237.6	236.9	236.9	236.9	236.3	236.5	236.3	236.3
42.5°	228.2	227.8	227.5	227.4	227.5	227.8	228.2	226.6	227.4	226.6	226.3
45°	213.3	214.0	214.2	213.1	214.2	214.0	213.3	212.9	212.2	211.9	211.7
47.5°	199.8	199.9	199.8	200.8	199.8	199.9	199.8	199.2	198.2	197.8	196.7
50°	190.4	189.9	190.4	189.9	190.4	189.9	190.4	189.2	188.5	187.4	186.5
52.5°	180.4	180.5	180.2	180.1	180.2	180.5	180.4	178.9	178.6	178.1	176.7
55°	164.7	165.1	164.9	164.9	164.9	165.1	164.7	163.8	163.6	162.2	160.8
57.5°	148.5	148.9	149.2	148.2	149.2	148.9	148.5	148.3	148.2	146.7	145.3
60°	137.2	138.3	138.1	137.7	138.1	138.3	137.2	137.4	136.8	135.8	134.9
62.5°	126.8	127.3	127.2	127.1	127.2	127.3	126.8	125.8	125.5	124.6	123.7
65°	110.9	111.3	110.6	111.3	110.6	111.3	110.9	110.2	108.6	108.1	107.2
67.5°	93.6	93.8	94.3	94.6	94.3	93.8	93.6	93.9	92.9	92.0	91.8
70°	82.9	82.7	83.4	84.1	83.4	82.7	82.9	82.5	81.8	81.1	80.2
72.5°	71.6	72.1	71.9	72.4	71.9	72.1	71.6	71.7	71.1	70.2	69.3
75°	55.2	55.9	55.7	56.3	55.7	55.9	55.2	55.7	55.2	54.3	53.4
77.5°	39.9	40.0	39.9	40.3	39.9	40.0	39.9	40.3	39.8	40.1	39.0
80°	30.4	30.0	29.5	30.4	29.5	30.0	30.4	30.4	29.8	30.4	29.8
82.5°	21.2	21.4	21.0	21.0	21.0	21.4	21.2	21.7	21.4	21.7	21.0
85°	9.8	9.5	9.1	9.1	9.1	9.5	9.8	9.8	10.4	10.0	10.0
87.5°	10.5	10.3	10.4	10.3	10.4	10.3	10.5	10.4	10.4	10.9	11.0
90°	43.2	43.5	43.8	44.1	43.8	43.5	43.2	42.9	43.1	43.7	44.2
92.5°	41.8	41.9	42.0	42.0	42.0	41.9	41.8	41.8	41.7	41.6	41.5
95°	82.1	81.5	81.0	80.4	81.0	81.5	82.1	82.7	83.0	83.0	83.0
97.5°	139.4	139.4	139.3	139.3	139.3	139.4	139.4	139.5	139.5	139.5	139.5
100°	178.5	178.2	177.9	177.6	177.9	178.2	178.5	178.8	178.9	178.9	178.9
102.5°	222.1	221.8	221.5	221.2	221.5	221.8	222.1	222.4	222.4	222.2	221.9
105°	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.9	287.6	287.0	286.4
107.5°	354.6	353.3	351.9	350.6	351.9	353.3	354.6	355.9	356.5	356.2	356.0
110°	402.0	401.1	400.2	399.4	400.2	401.1	402.0	402.8	403.3	403.3	403.3



TEST NUMBER: P331484

CATALOG NUMBER: S122DIW-S290D1240U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	447.9	447.3	446.7	446.0	446.7	447.3	447.9	448.6	449.2	449.9	450.6
115°	521.3	520.4	519.5	518.7	519.5	520.4	521.3	522.1	522.7	523.0	523.3
117.5°	590.5	589.6	588.8	587.9	588.8	589.6	590.5	591.4	592.1	592.8	593.5
120°	639.2	638.4	637.5	636.7	637.5	638.4	639.2	640.1	640.5	640.5	640.5
122.5°	686.3	685.6	685.0	684.4	685.0	685.6	686.3	686.9	687.6	688.3	689.0
125°	758.1	757.8	757.5	757.2	757.5	757.8	758.1	758.4	759.0	759.8	760.7
127.5°	826.4	825.5	824.6	823.6	824.6	825.5	826.4	827.3	828.3	829.3	830.4
130°	874.8	873.7	872.5	871.3	872.5	873.7	874.8	876.0	876.8	877.4	878.0
132.5°	919.8	918.8	917.9	917.0	917.9	918.8	919.8	920.7	921.8	923.0	924.3
135°	990.6	989.8	988.9	988.0	988.9	989.8	990.6	991.5	992.1	992.4	992.7
137.5°	1055.8	1054.7	1053.5	1052.4	1053.5	1054.7	1055.8	1057.0	1057.7	1057.9	1058.1
140°	1100.4	1099.3	1098.1	1097.0	1098.1	1099.3	1100.4	1101.6	1102.1	1102.1	1102.1
142.5°	1140.9	1139.7	1138.6	1137.4	1138.6	1139.7	1140.9	1142.0	1142.5	1142.3	1142.0
145°	1201.6	1200.4	1199.3	1198.1	1199.3	1200.4	1201.6	1202.7	1203.1	1202.9	1202.6
147.5°	1255.6	1254.5	1253.4	1252.3	1253.4	1254.5	1255.6	1256.7	1256.9	1256.3	1255.6
150°	1290.2	1289.3	1288.4	1287.6	1288.4	1289.3	1290.2	1291.0	1291.0	1290.2	1289.3
152.5°	1324.0	1323.0	1321.9	1320.8	1321.9	1323.0	1324.0	1325.1	1325.1	1324.0	1323.0
155°	1368.0	1367.1	1366.2	1365.4	1366.2	1367.1	1368.0	1368.8	1368.5	1367.1	1365.7
157.5°	1407.9	1406.5	1405.1	1403.7	1405.1	1406.5	1407.9	1409.3	1409.0	1407.0	1405.1
160°	1431.1	1429.9	1428.8	1427.6	1428.8	1429.9	1431.1	1432.2	1431.9	1430.2	1428.5
162.5°	1452.5	1451.1	1449.7	1448.4	1449.7	1451.1	1452.5	1453.9	1453.6	1451.6	1449.7
165°	1479.9	1478.5	1477.0	1475.6	1477.0	1478.5	1479.9	1481.3	1481.1	1479.0	1477.0
167.5°	1502.4	1500.9	1499.4	1497.9	1499.4	1500.9	1502.4	1503.9	1503.6	1501.6	1499.6
170°	1514.5	1512.8	1511.0	1509.3	1511.0	1512.8	1514.5	1516.2	1516.1	1514.0	1512.0
172.5°	1523.8	1522.1	1520.4	1518.6	1520.4	1522.1	1523.8	1525.5	1525.4	1523.4	1521.4
175°	1533.9	1532.2	1530.5	1528.7	1530.5	1532.2	1533.9	1535.7	1535.5	1533.5	1531.5
177.5°	1537.6	1536.2	1534.8	1533.4	1534.8	1536.2	1537.6	1538.9	1538.9	1537.6	1536.2
180°	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5



TEST NUMBER: P331484

CATALOG NUMBER: S122DIW-S290D1240U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	568.0	570.0	573.1	576.4	578.4	582.2	583.3	585.1	586.7	590.5	594.5
5°	535.2	538.4	545.9	550.0	555.6	562.2	566.5	571.1	576.1	584.7	592.7
7.5°	500.0	505.3	514.7	522.3	530.4	539.8	546.6	555.6	563.1	575.3	586.9
10°	476.6	484.1	492.5	501.6	512.9	522.9	532.5	543.8	552.9	567.5	581.1
12.5°	455.5	456.6	468.7	478.7	494.2	506.6	517.6	532.2	541.1	558.4	572.7
15°	418.7	425.5	436.4	444.3	462.7	478.4	493.9	509.1	519.3	540.7	559.5
17.5°	387.6	393.9	405.1	418.1	431.3	446.9	466.9	483.0	496.9	521.3	543.6
20°	368.0	375.7	387.1	400.5	412.1	429.1	446.4	464.8	479.8	507.3	533.4
22.5°	351.3	357.4	366.6	379.8	392.4	408.0	426.9	447.0	462.7	492.4	518.8
25°	327.8	332.8	338.7	349.6	363.9	381.0	395.7	417.8	440.7	468.4	500.4
27.5°	306.6	310.2	315.4	325.0	336.1	352.0	368.4	389.3	412.4	442.5	476.3
30°	293.7	296.0	301.2	309.2	320.1	332.6	349.2	369.1	392.8	423.2	456.8
32.5°	282.5	284.5	288.0	295.5	305.0	315.7	330.6	350.6	373.1	403.0	440.3
35°	265.6	267.1	270.1	276.2	281.5	291.9	304.4	322.6	343.7	372.3	410.9
37.5°	248.7	250.9	252.7	255.3	262.0	268.9	279.7	295.1	315.8	344.7	381.5
40°	237.6	239.4	242.2	243.3	248.7	254.9	263.7	277.8	298.7	325.1	361.0
42.5°	226.3	228.2	229.8	231.1	235.8	241.2	249.2	261.3	279.8	305.4	341.0
45°	211.0	211.3	212.9	215.4	217.6	221.5	227.2	237.6	251.9	276.0	308.3
47.5°	195.5	195.8	196.0	197.1	199.6	203.1	206.9	215.4	228.2	247.4	278.8
50°	185.1	184.7	185.1	186.0	187.6	190.6	194.9	201.0	211.5	229.4	258.3
52.5°	175.1	175.1	174.8	175.1	176.4	178.4	181.5	186.7	196.0	212.5	237.9
55°	159.9	158.8	159.0	158.1	160.2	160.6	162.9	167.2	175.4	186.7	210.6
57.5°	143.7	142.8	141.8	141.5	141.3	142.5	144.3	147.7	154.0	164.0	183.3
60°	133.3	132.2	130.8	130.4	130.4	131.1	132.0	134.5	140.4	149.2	165.1
62.5°	122.8	121.5	120.7	119.5	119.1	119.8	120.7	122.5	126.8	135.1	148.8
65°	106.5	104.9	103.8	103.6	103.1	102.5	102.9	104.7	108.1	114.7	125.6
67.5°	90.2	88.7	88.5	87.1	86.5	86.6	86.5	88.0	90.1	95.8	103.9
70°	79.5	78.4	77.9	76.8	76.3	75.9	75.4	76.8	78.8	83.6	90.6
72.5°	68.6	67.6	66.7	65.7	65.8	65.3	65.2	66.1	67.7	72.1	77.6
75°	52.9	53.2	52.0	50.9	50.7	50.2	50.2	50.9	51.6	55.0	59.3
77.5°	38.4	38.2	37.3	36.9	36.7	36.2	36.7	37.1	37.5	39.8	42.9
80°	29.3	29.3	28.2	28.2	27.9	27.3	27.9	27.5	28.4	30.7	32.9
82.5°	20.9	20.6	20.5	20.2	20.1	19.6	19.9	20.4	20.8	22.3	23.7
85°	10.2	10.2	10.0	9.8	10.0	9.8	10.0	10.2	10.4	11.1	12.3
87.5°	11.1	11.4	10.4	9.3	8.0	6.9	6.1	5.6	5.3	4.8	4.3
90°	44.8	45.4	39.0	32.7	26.4	20.0	15.1	11.7	8.2	4.8	1.3
92.5°	41.3	41.2	39.7	38.2	36.7	35.2	33.2	30.7	28.2	25.6	23.1
95°	83.0	83.0	82.4	81.8	81.3	80.7	79.0	76.1	73.2	70.3	67.4
97.5°	139.5	139.5	138.4	137.3	136.2	135.1	133.3	130.8	128.3	125.7	123.2
100°	178.9	178.9	178.1	177.2	176.3	175.5	173.9	171.6	169.3	167.0	164.7
102.5°	221.7	221.5	220.4	219.3	218.2	217.1	215.6	213.8	211.9	210.1	208.2
105°	285.8	285.3	284.7	284.1	283.5	283.0	282.2	281.4	280.5	279.6	278.8
107.5°	355.8	355.5	355.5	355.5	355.5	355.5	354.9	353.6	352.4	351.1	349.8
110°	403.3	403.3	403.3	403.3	403.3	403.3	402.4	400.7	398.9	397.2	395.5



TEST NUMBER: P331484

CATALOG NUMBER: S122DIW-S290D1240U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	451.3	452.0	452.2	452.5	452.7	452.9	452.2	450.5	448.7	447.0	445.3
115°	523.6	523.8	524.4	525.0	525.6	526.1	525.6	523.8	522.1	520.4	518.7
117.5°	594.2	594.9	596.5	598.1	599.7	601.4	601.0	598.7	596.4	594.1	591.8
120°	640.5	640.5	642.8	645.2	647.5	649.8	649.8	647.5	645.2	642.8	640.5
122.5°	689.6	690.3	691.9	693.6	695.2	696.8	696.2	693.4	690.7	687.9	685.1
125°	761.6	762.4	763.3	764.2	765.0	765.9	765.0	762.4	759.8	757.2	754.6
127.5°	831.4	832.4	833.5	834.5	835.6	836.6	835.5	832.2	828.9	825.6	822.3
130°	878.5	879.1	879.7	880.3	880.9	881.4	879.8	876.1	872.4	868.6	864.9
132.5°	925.6	926.8	926.7	926.6	926.5	926.4	924.8	921.7	918.7	915.6	912.6
135°	992.9	993.2	992.7	992.1	991.5	990.9	989.1	985.9	982.7	979.5	976.4
137.5°	1058.4	1058.6	1057.8	1057.1	1056.3	1055.6	1053.9	1051.3	1048.7	1046.1	1043.5
140°	1102.1	1102.1	1100.7	1099.3	1097.8	1096.4	1094.4	1091.8	1089.2	1086.6	1084.0
142.5°	1141.8	1141.6	1140.6	1139.6	1138.6	1137.6	1135.9	1133.3	1130.7	1128.1	1125.5
145°	1202.3	1202.0	1200.3	1198.5	1196.8	1195.1	1193.2	1191.2	1189.2	1187.2	1185.1
147.5°	1255.0	1254.4	1253.2	1252.1	1250.9	1249.8	1248.0	1245.6	1243.1	1240.7	1238.3
150°	1288.4	1287.6	1286.4	1285.3	1284.1	1283.0	1281.5	1279.8	1278.1	1276.3	1274.6
152.5°	1321.9	1320.8	1319.4	1318.0	1316.6	1315.2	1313.7	1311.9	1310.2	1308.5	1306.8
155°	1364.2	1362.8	1361.9	1361.0	1360.2	1359.3	1358.5	1357.6	1356.7	1355.9	1355.0
157.5°	1403.1	1401.2	1400.6	1400.1	1399.6	1399.1	1398.5	1398.0	1397.4	1396.8	1396.2
160°	1426.7	1425.0	1424.7	1424.4	1424.1	1423.9	1423.4	1422.9	1422.3	1421.7	1421.1
162.5°	1447.7	1445.8	1445.5	1445.2	1444.9	1444.6	1444.4	1444.3	1444.2	1444.1	1443.9
165°	1475.0	1473.0	1473.0	1473.0	1473.0	1473.0	1473.1	1473.4	1473.7	1474.0	1474.3
167.5°	1497.6	1495.5	1495.6	1495.7	1495.7	1495.8	1496.2	1497.1	1498.0	1498.8	1499.7
170°	1510.0	1508.0	1508.3	1508.6	1508.9	1509.2	1509.7	1510.6	1511.5	1512.3	1513.2
172.5°	1519.4	1517.3	1517.6	1517.9	1518.2	1518.5	1519.1	1519.9	1520.8	1521.7	1522.5
175°	1529.5	1527.4	1528.0	1528.6	1529.2	1529.8	1530.5	1531.3	1532.2	1533.1	1533.9
177.5°	1534.8	1533.4	1533.9	1534.3	1534.8	1535.3	1535.8	1536.5	1537.2	1537.9	1538.6
180°	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5



TEST NUMBER: P331484

CATALOG NUMBER: S122DIW-S290D1240U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	594.2	595.1	598.0	600.9	604.2	605.1	606.5	605.3	604.9	608.3	610.9
5°	595.9	599.9	607.9	615.2	621.3	625.6	630.2	632.0	635.4	640.1	646.1
7.5°	593.9	601.9	614.4	625.0	636.5	644.8	651.3	656.9	663.6	672.6	682.5
10°	591.8	602.4	617.7	630.6	644.7	655.4	664.2	672.9	682.9	695.4	708.3
12.5°	587.8	600.4	619.5	634.8	652.9	663.4	675.3	693.9	704.7	722.1	740.3
15°	579.7	593.8	620.4	639.2	659.7	679.7	701.7	719.4	737.1	747.4	773.0
17.5°	567.8	588.4	617.9	639.9	665.9	697.3	722.1	742.2	762.6	779.2	792.1
20°	558.1	580.6	614.3	640.6	671.5	705.3	733.7	754.2	771.9	785.8	793.7
22.5°	546.0	574.3	607.0	637.9	677.3	710.8	740.6	756.7	771.5	778.3	781.4
25°	526.8	560.9	597.9	635.6	680.1	715.6	742.8	752.6	756.9	750.3	739.4
27.5°	506.1	544.1	587.4	631.3	678.4	712.5	732.0	730.5	723.2	701.8	684.8
30°	490.7	532.5	579.0	627.0	674.2	707.4	718.7	707.4	690.8	667.0	642.6
32.5°	474.5	517.8	570.1	620.8	666.6	695.8	698.2	678.7	653.0	625.9	595.6
35°	450.0	496.8	553.4	607.0	650.4	668.8	657.9	623.3	592.9	555.9	514.5
37.5°	422.3	474.0	530.7	586.8	626.1	630.9	603.8	567.5	524.5	481.0	432.3
40°	401.6	456.4	514.8	571.3	606.1	601.1	566.5	526.6	475.5	422.3	377.1
42.5°	383.1	437.8	497.3	552.8	580.6	566.9	526.6	477.5	422.6	372.5	331.1
45°	351.0	407.3	468.2	521.8	537.7	512.9	459.6	405.0	351.0	309.2	276.5
47.5°	319.8	375.5	435.8	482.9	488.5	455.2	396.9	340.8	294.3	260.3	237.2
50°	296.9	352.8	412.5	454.6	452.7	412.5	352.6	299.2	260.3	232.8	217.4
52.5°	276.4	329.2	386.5	424.8	415.1	371.3	314.0	266.6	234.7	213.2	199.2
55°	244.4	293.3	347.8	378.5	360.7	312.1	263.7	225.6	201.9	185.8	174.9
57.5°	212.7	258.5	305.2	324.1	304.5	259.6	219.3	191.6	173.8	161.9	154.8
60°	193.1	233.1	274.6	291.0	267.6	227.6	195.8	171.1	156.7	147.0	140.6
62.5°	173.5	209.3	248.5	257.4	236.0	202.2	174.0	153.4	141.7	133.0	127.0
65°	146.7	176.1	205.8	211.7	192.0	165.8	143.6	130.2	119.7	113.4	108.6
67.5°	120.4	143.9	165.0	169.7	152.4	134.3	118.2	106.5	99.5	94.2	90.1
70°	104.7	123.4	140.6	144.5	130.6	114.5	102.2	92.9	86.5	82.0	78.1
72.5°	88.2	103.7	118.1	120.7	109.4	97.0	87.0	79.6	74.0	71.1	67.4
75°	67.5	76.6	87.7	88.4	80.9	73.4	65.7	60.9	57.9	54.3	52.5
77.5°	47.6	54.7	61.1	62.3	57.9	52.8	48.5	44.7	42.2	40.5	38.8
80°	36.3	42.0	44.8	46.3	43.2	39.5	37.0	34.5	32.9	31.8	30.7
82.5°	26.0	29.5	32.0	33.3	31.5	29.3	26.9	25.4	24.2	23.3	22.9
85°	13.2	14.8	16.4	16.8	16.4	15.4	14.1	14.1	13.4	13.2	13.2
87.5°	5.5	6.9	7.6	8.8	9.5	10.7	12.0	13.1	14.2	13.9	13.6
90°	4.8	8.2	11.7	15.1	20.0	26.4	32.7	39.0	45.4	44.8	44.2
92.5°	25.6	28.2	30.7	33.2	35.2	36.7	38.2	39.7	41.2	41.3	41.5
95°	70.3	73.2	76.1	79.0	80.7	81.3	81.8	82.4	83.0	83.0	83.0
97.5°	125.7	128.3	130.8	133.3	135.1	136.2	137.3	138.4	139.5	139.5	139.5
100°	167.0	169.3	171.6	173.9	175.5	176.3	177.2	178.1	178.9	178.9	178.9
102.5°	210.1	211.9	213.8	215.6	217.1	218.2	219.3	220.4	221.5	221.7	221.9
105°	279.6	280.5	281.4	282.2	283.0	283.5	284.1	284.7	285.3	285.8	286.4
107.5°	351.1	352.4	353.6	354.9	355.5	355.5	355.5	355.5	355.5	355.8	356.0
110°	397.2	398.9	400.7	402.4	403.3	403.3	403.3	403.3	403.3	403.3	403.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	447.0	448.7	450.5	452.2	452.9	452.7	452.5	452.2	452.0	451.3	450.6
115°	520.4	522.1	523.8	525.6	526.1	525.6	525.0	524.4	523.8	523.6	523.3
117.5°	594.1	596.4	598.7	601.0	601.4	599.7	598.1	596.5	594.9	594.2	593.5
120°	642.8	645.2	647.5	649.8	649.8	647.5	645.2	642.8	640.5	640.5	640.5
122.5°	687.9	690.7	693.4	696.2	696.8	695.2	693.6	691.9	690.3	689.6	689.0
125°	757.2	759.8	762.4	765.0	765.9	765.0	764.2	763.3	762.4	761.6	760.7
127.5°	825.6	828.9	832.2	835.5	836.6	835.6	834.5	833.5	832.4	831.4	830.4
130°	868.6	872.4	876.1	879.8	881.4	880.9	880.3	879.7	879.1	878.5	878.0
132.5°	915.6	918.7	921.7	924.8	926.4	926.5	926.6	926.7	926.8	925.6	924.3
135°	979.5	982.7	985.9	989.1	990.9	991.5	992.1	992.7	993.2	992.9	992.7
137.5°	1046.1	1048.7	1051.3	1053.9	1055.6	1056.3	1057.1	1057.8	1058.6	1058.4	1058.1
140°	1086.6	1089.2	1091.8	1094.4	1096.4	1097.8	1099.3	1100.7	1102.1	1102.1	1102.1
142.5°	1128.1	1130.7	1133.3	1135.9	1137.6	1138.6	1139.6	1140.6	1141.6	1141.8	1142.0
145°	1187.2	1189.2	1191.2	1193.2	1195.1	1196.8	1198.5	1200.3	1202.0	1202.3	1202.6
147.5°	1240.7	1243.1	1245.6	1248.0	1249.8	1250.9	1252.1	1253.2	1254.4	1255.0	1255.6
150°	1276.3	1278.1	1279.8	1281.5	1283.0	1284.1	1285.3	1286.4	1287.6	1288.4	1289.3
152.5°	1308.5	1310.2	1311.9	1313.7	1315.2	1316.6	1318.0	1319.4	1320.8	1321.9	1323.0
155°	1355.9	1356.7	1357.6	1358.5	1359.3	1360.2	1361.0	1361.9	1362.8	1364.2	1365.7
157.5°	1396.8	1397.4	1398.0	1398.5	1399.1	1399.6	1400.1	1400.6	1401.2	1403.1	1405.1
160°	1421.7	1422.3	1422.9	1423.4	1423.9	1424.1	1424.4	1424.7	1425.0	1426.7	1428.5
162.5°	1444.1	1444.2	1444.3	1444.4	1444.6	1444.9	1445.2	1445.5	1445.8	1447.7	1449.7
165°	1474.0	1473.7	1473.4	1473.1	1473.0	1473.0	1473.0	1473.0	1473.0	1475.0	1477.0
167.5°	1498.8	1498.0	1497.1	1496.2	1495.8	1495.7	1495.7	1495.6	1495.5	1497.6	1499.6
170°	1512.3	1511.5	1510.6	1509.7	1509.2	1508.9	1508.6	1508.3	1508.0	1510.0	1512.0
172.5°	1521.7	1520.8	1519.9	1519.1	1518.5	1518.2	1517.9	1517.6	1517.3	1519.4	1521.4
175°	1533.1	1532.2	1531.3	1530.5	1529.8	1529.2	1528.6	1528.0	1527.4	1529.5	1531.5
177.5°	1537.9	1537.2	1536.5	1535.8	1535.3	1534.8	1534.3	1533.9	1533.4	1534.8	1536.2
180°	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	613.1	615.6	615.6	616.0	618.9	618.5	618.3
5°	652.4	656.3	656.7	660.8	663.5	662.6	660.1
7.5°	689.5	696.7	702.2	705.2	708.8	711.0	710.0
10°	719.0	729.4	735.8	740.1	745.3	749.2	747.8
12.5°	745.7	758.1	766.9	774.3	774.9	779.9	776.5
15°	787.4	800.5	801.9	807.3	811.7	811.2	811.4
17.5°	801.1	805.3	806.2	806.3	806.4	804.8	801.3
20°	796.2	794.6	790.8	787.8	782.6	781.9	777.4
22.5°	772.9	767.9	758.2	751.8	743.7	741.6	740.3
25°	727.2	716.0	700.6	685.8	681.7	673.8	676.0
27.5°	664.3	647.0	630.2	618.3	607.4	595.5	598.9
30°	620.2	600.6	577.0	558.8	547.2	535.9	533.8
32.5°	567.5	538.8	512.5	496.5	478.7	471.5	463.7
35°	476.6	448.6	422.5	400.0	387.1	377.1	368.0
37.5°	394.9	362.7	341.6	323.4	314.0	308.3	309.8
40°	344.2	316.0	300.5	286.7	278.0	274.0	274.9
42.5°	303.1	282.0	269.3	259.8	253.7	251.4	250.9
45°	256.5	244.7	234.2	228.8	225.8	223.3	221.7
47.5°	224.7	215.0	209.1	205.9	203.3	200.8	200.7
50°	205.6	199.2	195.1	191.7	189.7	187.9	189.5
52.5°	191.0	185.2	181.1	178.1	177.3	175.7	175.6
55°	169.5	164.9	162.0	159.2	157.9	157.0	155.8
57.5°	149.8	145.5	142.8	141.1	138.5	137.6	137.2
60°	135.8	132.4	129.7	127.4	126.3	124.5	124.5
62.5°	122.9	119.5	117.0	115.3	113.4	112.7	112.9
65°	104.3	101.5	99.0	97.2	96.8	95.4	95.9
67.5°	87.1	85.3	82.6	81.6	80.8	80.1	79.5
70°	75.6	73.8	72.5	71.1	70.4	70.4	70.4
72.5°	66.0	63.8	63.0	61.3	61.7	61.0	60.2
75°	51.1	49.7	49.1	48.4	47.3	47.3	47.3
77.5°	37.6	37.2	36.4	35.7	35.4	35.2	35.3
80°	29.1	28.8	28.4	28.4	27.9	27.7	27.3
82.5°	22.4	21.8	21.5	21.3	21.2	21.2	21.1
85°	12.7	12.3	12.3	12.5	12.0	12.0	12.3
87.5°	13.6	13.5	13.3	13.4	13.6	13.5	13.5
90°	43.7	43.1	42.9	43.2	43.5	43.8	44.1
92.5°	41.6	41.7	41.8	41.8	41.9	42.0	42.0
95°	83.0	83.0	82.7	82.1	81.5	81.0	80.4
97.5°	139.5	139.5	139.5	139.4	139.4	139.3	139.3
100°	178.9	178.9	178.8	178.5	178.2	177.9	177.6
102.5°	222.2	222.4	222.4	222.1	221.8	221.5	221.2
105°	287.0	287.6	287.9	287.9	287.9	287.9	287.9
107.5°	356.2	356.5	355.9	354.6	353.3	351.9	350.6
110°	403.3	403.3	402.8	402.0	401.1	400.2	399.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	449.9	449.2	448.6	447.9	447.3	446.7	446.0
115°	523.0	522.7	522.1	521.3	520.4	519.5	518.7
117.5°	592.8	592.1	591.4	590.5	589.6	588.8	587.9
120°	640.5	640.5	640.1	639.2	638.4	637.5	636.7
122.5°	688.3	687.6	686.9	686.3	685.6	685.0	684.4
125°	759.8	759.0	758.4	758.1	757.8	757.5	757.2
127.5°	829.3	828.3	827.3	826.4	825.5	824.6	823.6
130°	877.4	876.8	876.0	874.8	873.7	872.5	871.3
132.5°	923.0	921.8	920.7	919.8	918.8	917.9	917.0
135°	992.4	992.1	991.5	990.6	989.8	988.9	988.0
137.5°	1057.9	1057.7	1057.0	1055.8	1054.7	1053.5	1052.4
140°	1102.1	1102.1	1101.6	1100.4	1099.3	1098.1	1097.0
142.5°	1142.3	1142.5	1142.0	1140.9	1139.7	1138.6	1137.4
145°	1202.9	1203.1	1202.7	1201.6	1200.4	1199.3	1198.1
147.5°	1256.3	1256.9	1256.7	1255.6	1254.5	1253.4	1252.3
150°	1290.2	1291.0	1291.0	1290.2	1289.3	1288.4	1287.6
152.5°	1324.0	1325.1	1325.1	1324.0	1323.0	1321.9	1320.8
155°	1367.1	1368.5	1368.8	1368.0	1367.1	1366.2	1365.4
157.5°	1407.0	1409.0	1409.3	1407.9	1406.5	1405.1	1403.7
160°	1430.2	1431.9	1432.2	1431.1	1429.9	1428.8	1427.6
162.5°	1451.6	1453.6	1453.9	1452.5	1451.1	1449.7	1448.4
165°	1479.0	1481.1	1481.3	1479.9	1478.5	1477.0	1475.6
167.5°	1501.6	1503.6	1503.9	1502.4	1500.9	1499.4	1497.9
170°	1514.0	1516.1	1516.2	1514.5	1512.8	1511.0	1509.3
172.5°	1523.4	1525.4	1525.5	1523.8	1522.1	1520.4	1518.6
175°	1533.5	1535.5	1535.7	1533.9	1532.2	1530.5	1528.7
177.5°	1537.6	1538.9	1538.9	1537.6	1536.2	1534.8	1533.4
180°	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5

(END OF REPORT)