

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: P331477

Luminaire Tested: **S122DIW-S290D970U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331477
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S290D970U835-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 970 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5177.2 lumens
Efficiency: N/A
Efficacy: 136.2 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

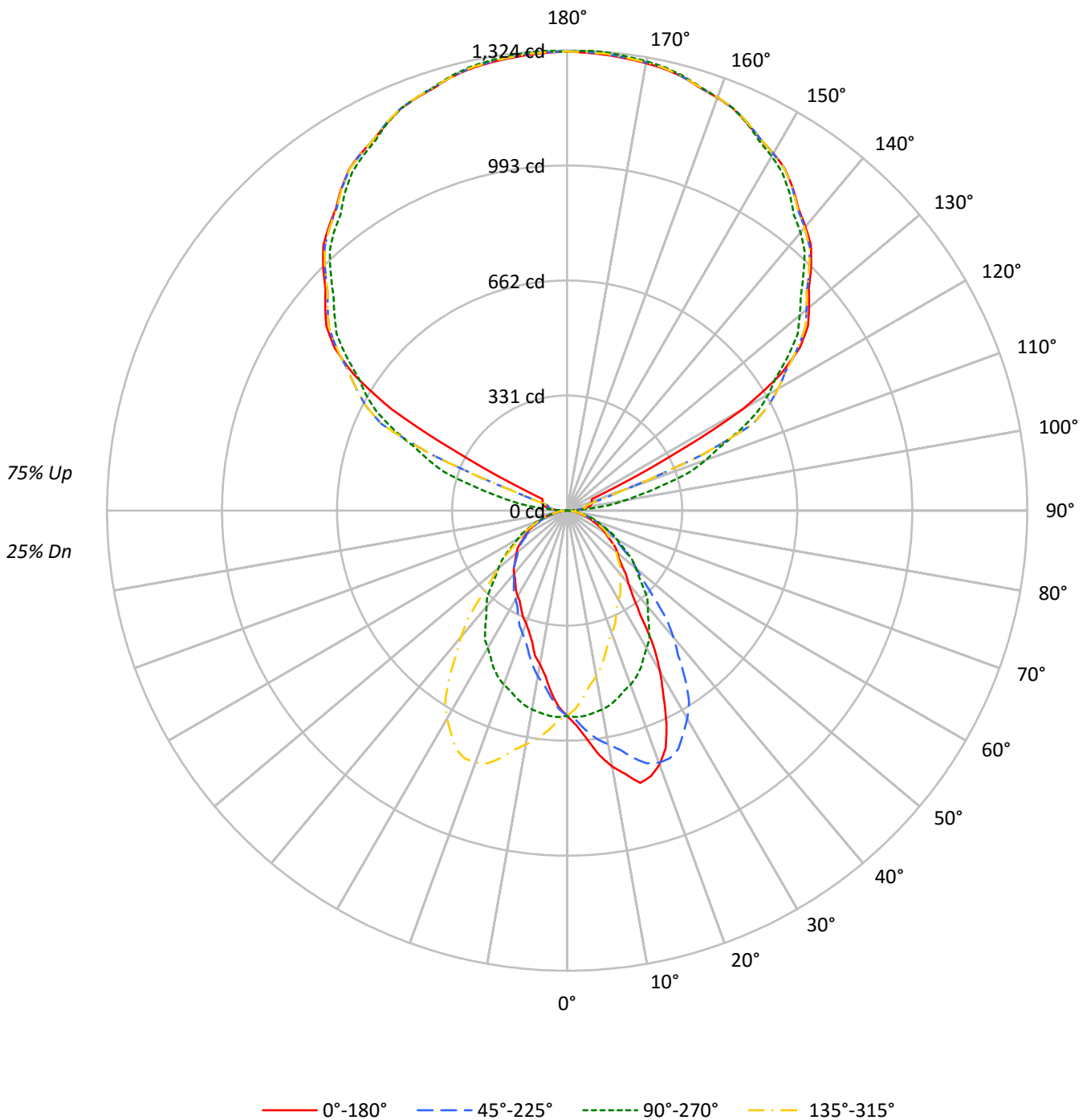
Input Watts (W): 38
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	70	70	70	51	51	51	33	33	33	25
1	92	88	85	81	82	79	76	73	61	59	57	45	44	43	30	29	29	22
2	84	77	72	67	75	69	64	60	54	51	48	40	38	36	27	25	24	19
3	77	68	61	56	68	61	55	51	48	44	40	35	33	31	24	22	21	16
4	71	60	53	47	63	54	48	43	42	38	35	31	29	26	21	20	18	14
5	65	54	46	40	57	48	42	37	38	33	30	28	25	23	19	17	16	12
6	60	48	40	35	53	43	37	32	34	29	26	26	22	20	18	16	14	11
7	55	43	36	31	49	39	33	28	31	26	23	23	20	18	16	14	13	10
8	51	39	32	27	45	35	29	25	28	23	20	21	18	16	15	13	11	9
9	47	36	29	24	42	32	26	22	26	21	18	20	16	14	14	12	10	8
10	44	33	26	21	39	30	24	20	24	19	16	18	15	13	13	11	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



TEST NUMBER: P331477

CATALOG NUMBER: S122DIW-S290D970U835-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	1.1
10°-20°	163.7	3.2
20°-30°	237.5	4.6
30°-40°	250.6	4.8
40°-50°	221.9	4.3
50°-60°	177.1	3.4
60°-70°	120.4	2.3
70°-80°	61.7	1.2
80°-90°	18.1	0.4
90°-100°	44.1	0.9
100°-110°	161.5	3.1
110°-120°	431.8	8.3
120°-130°	712.8	13.8
130°-140°	758.0	14.6
140°-150°	704.6	13.6
150°-160°	566.5	10.9
160°-170°	365.0	7.1
170°-180°	125.6	2.4
0°-30°	457.5	8.8
0°-40°	708.1	13.7
0°-60°	1107.1	21.4
0°-90°	1307.3	25.3
90°-120°	637.4	12.3
90°-150°	2812.8	54.3
90°-180°	3870.0	74.8
0°-180°	5177.2	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	14
90°	26	1	26	1	26	12
95°	41	62	41	62	41	38
105°	73	290	73	290	73	76
115°	78	549	78	549	78	196
125°	817	777	817	777	817	707
135°	993	961	993	961	993	765
145°	1132	1115	1132	1115	1132	708
155°	1229	1228	1229	1228	1229	567
165°	1291	1294	1291	1294	1291	364
175°	1316	1323	1316	1323	1316	125
180°	1320	1320	1320	1320	1320	



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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°	9.9	9.8	9.9	9.6	9.5	9.6	9.4	9.0	8.9	8.9	8.8
90°	25.8	25.4	24.9	24.5	24.1	23.4	22.3	21.2	20.2	19.1	17.4
92.5°	25.8	25.5	25.3	25.0	24.8	24.4	23.8	23.3	22.7	22.2	21.3
95°	41.1	41.3	41.5	41.7	41.9	41.5	40.5	39.4	38.3	37.3	35.8
97.5°	54.8	54.6	54.3	54.1	53.8	53.3	52.4	51.6	50.7	49.9	46.4
100°	64.0	63.6	63.2	62.7	62.3	61.3	59.6	57.9	56.2	54.5	50.9
102.5°	68.6	68.0	67.4	66.8	66.2	64.8	62.6	60.4	58.2	56.0	86.2
105°	72.6	71.8	70.9	70.1	69.2	67.6	65.3	63.0	60.6	58.3	116.3
107.5°	74.7	73.9	73.0	72.2	71.3	72.1	74.5	76.8	79.2	81.6	151.1
110°	75.5	74.6	73.8	72.9	72.1	82.3	103.5	124.7	146.0	167.2	228.6



TEST NUMBER: P331477

CATALOG NUMBER: S122DIW-S290D970U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	76.3	75.6	74.9	74.2	73.5	111.9	189.4	266.8	344.3	421.8	436.9
115°	78.4	93.6	108.9	124.2	139.5	196.3	294.6	392.9	491.2	589.6	584.3
117.5°	319.9	370.2	420.4	470.6	520.9	557.9	581.7	605.4	629.2	653.0	649.4
120°	582.9	611.5	640.2	668.9	697.5	710.6	708.0	705.5	703.0	700.4	696.6
122.5°	727.4	732.9	738.5	744.0	749.6	751.6	750.1	748.6	747.0	745.5	741.3
125°	817.0	816.3	815.7	815.1	814.4	813.4	811.9	810.4	808.9	807.4	803.4
127.5°	873.5	873.4	873.3	873.2	873.0	871.9	869.7	867.6	865.4	863.2	860.2
130°	908.7	908.9	909.1	909.3	909.6	908.5	906.2	903.8	901.5	899.2	896.8
132.5°	943.1	943.3	943.5	943.7	944.0	943.1	941.1	939.1	937.1	935.1	932.7
135°	992.8	993.2	993.6	994.1	994.5	993.6	991.5	989.4	987.3	985.2	983.2
137.5°	1038.1	1038.8	1039.5	1040.3	1041.0	1040.3	1038.2	1036.1	1034.1	1032.0	1029.8
140°	1066.4	1067.4	1068.5	1069.6	1070.6	1070.2	1068.3	1066.4	1064.5	1062.6	1060.2
142.5°	1093.9	1095.0	1096.0	1097.1	1098.1	1097.8	1096.1	1094.3	1092.6	1090.8	1088.2
145°	1132.3	1133.4	1134.4	1135.5	1136.6	1136.3	1134.9	1133.4	1131.9	1130.4	1126.8
147.5°	1166.1	1167.0	1167.9	1168.8	1169.7	1169.6	1168.5	1167.4	1166.3	1165.2	1161.6
150°	1186.8	1187.8	1188.9	1190.0	1191.0	1190.9	1189.6	1188.4	1187.1	1185.8	1182.4
152.5°	1204.4	1205.8	1207.2	1208.6	1210.0	1210.0	1208.7	1207.5	1206.2	1204.9	1201.7
155°	1228.8	1230.5	1232.2	1233.9	1235.6	1235.8	1234.5	1233.3	1232.0	1230.7	1228.2
157.5°	1251.2	1252.8	1254.5	1256.1	1257.8	1257.9	1256.5	1255.0	1253.6	1252.1	1250.3
160°	1264.2	1265.7	1267.1	1268.6	1270.1	1270.2	1268.9	1267.7	1266.4	1265.1	1263.9
162.5°	1274.9	1276.7	1278.5	1280.3	1282.2	1282.4	1280.9	1279.5	1278.0	1276.6	1275.5
165°	1290.9	1292.4	1293.9	1295.4	1296.9	1296.9	1295.4	1293.9	1292.4	1290.9	1290.3
167.5°	1301.1	1303.0	1304.9	1306.8	1308.7	1308.9	1307.4	1305.9	1304.4	1303.0	1302.4
170°	1307.2	1309.1	1311.0	1312.9	1314.8	1315.0	1313.5	1312.1	1310.6	1309.1	1308.7
172.5°	1311.8	1313.7	1315.6	1317.5	1319.4	1319.6	1318.1	1316.6	1315.2	1313.7	1313.2
175°	1315.8	1317.9	1320.0	1322.1	1324.3	1324.6	1323.1	1321.6	1320.1	1318.6	1318.2
177.5°	1318.3	1319.8	1321.3	1322.8	1324.4	1324.5	1323.3	1322.2	1321.0	1319.8	1319.6
180°	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5



TEST NUMBER: P331477

CATALOG NUMBER: S122DIW-S290D970U835-4F0-1E-UDD-A

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°	8.6	8.3	7.9	7.9	6.9	6.4	5.2	4.2	4.5	4.8	4.9
90°	15.7	14.0	12.3	10.3	8.0	5.6	3.3	1.0	3.3	5.6	8.0
92.5°	20.5	19.6	18.8	18.5	18.7	18.9	19.1	19.3	19.1	18.9	18.7
95°	34.3	32.8	31.3	34.1	41.1	48.1	55.1	62.1	55.1	48.1	41.1
97.5°	43.0	39.6	36.1	44.3	64.0	83.8	103.5	123.3	103.5	83.8	64.0
100°	47.2	43.6	40.0	52.8	81.9	110.9	140.0	169.1	140.0	110.9	81.9
102.5°	116.4	146.6	176.8	194.9	201.1	207.3	213.4	219.6	213.4	207.3	201.1
105°	174.2	232.2	290.2	316.0	309.6	303.2	296.9	290.5	296.9	303.2	309.6
107.5°	220.6	290.2	359.7	391.9	386.7	381.6	376.5	371.3	376.5	381.6	386.7
110°	290.0	351.3	412.7	441.1	436.7	432.2	427.8	423.3	427.8	432.2	436.7



TEST NUMBER: P331477

CATALOG NUMBER: S122DIW-S290D970U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	452.1	467.3	482.4	488.0	484.1	480.1	476.2	472.2	476.2	480.1	484.1
115°	578.9	573.6	568.3	563.9	560.3	556.7	553.0	549.4	553.0	556.7	560.3
117.5°	645.7	642.1	638.4	634.6	630.5	626.5	622.5	618.4	622.5	626.5	630.5
120°	692.8	688.9	685.1	681.6	678.4	675.2	672.1	668.9	672.1	675.2	678.4
122.5°	737.2	733.0	728.9	725.1	721.7	718.4	715.0	711.7	715.0	718.4	721.7
125°	799.4	795.3	791.3	787.9	785.1	782.4	779.6	776.8	779.6	782.4	785.1
127.5°	857.2	854.2	851.2	848.1	845.1	842.0	839.0	835.9	839.0	842.0	845.1
130°	894.5	892.1	889.8	886.9	883.5	880.2	876.8	873.4	876.8	880.2	883.5
132.5°	930.4	928.1	925.7	923.1	920.2	917.4	914.5	911.6	914.5	917.4	920.2
135°	981.3	979.4	977.5	974.9	971.5	968.1	964.7	961.3	964.7	968.1	971.5
137.5°	1027.6	1025.5	1023.3	1021.0	1018.7	1016.3	1013.9	1011.5	1013.9	1016.3	1018.7
140°	1057.9	1055.5	1053.2	1051.2	1049.5	1047.8	1046.1	1044.4	1046.1	1047.8	1049.5
142.5°	1085.5	1082.8	1080.1	1078.0	1076.5	1075.0	1073.4	1071.9	1073.4	1075.0	1076.5
145°	1123.2	1119.6	1116.0	1114.3	1114.5	1114.7	1114.9	1115.1	1114.9	1114.7	1114.5
147.5°	1158.0	1154.5	1150.9	1149.5	1150.3	1151.1	1151.9	1152.8	1151.9	1151.1	1150.3
150°	1179.0	1175.6	1172.2	1171.3	1172.8	1174.2	1175.7	1177.2	1175.7	1174.2	1172.8
152.5°	1198.5	1195.2	1192.0	1191.2	1192.9	1194.5	1196.2	1197.9	1196.2	1194.5	1192.9
155°	1225.6	1223.1	1220.5	1220.2	1222.1	1224.0	1225.9	1227.9	1225.9	1224.0	1222.1
157.5°	1248.6	1246.8	1245.0	1244.9	1246.5	1248.1	1249.8	1251.4	1249.8	1248.1	1246.5
160°	1262.6	1261.3	1260.0	1260.0	1261.3	1262.6	1263.9	1265.1	1263.9	1262.6	1261.3
162.5°	1274.4	1273.3	1272.2	1272.3	1273.5	1274.8	1276.1	1277.4	1276.1	1274.8	1273.5
165°	1289.6	1289.0	1288.4	1288.7	1290.0	1291.2	1292.5	1293.8	1292.5	1291.2	1290.0
167.5°	1301.8	1301.2	1300.6	1300.9	1302.2	1303.5	1304.7	1306.0	1304.7	1303.5	1302.2
170°	1308.2	1307.8	1307.4	1307.8	1309.1	1310.4	1311.6	1312.9	1311.6	1310.4	1309.1
172.5°	1312.8	1312.4	1312.0	1312.4	1313.7	1314.9	1316.2	1317.5	1316.2	1314.9	1313.7
175°	1317.8	1317.4	1316.9	1317.5	1319.0	1320.4	1321.9	1323.4	1321.9	1320.4	1319.0
177.5°	1319.4	1319.3	1319.1	1319.6	1320.8	1322.0	1323.2	1324.4	1323.2	1322.0	1320.8
180°	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5



TEST NUMBER: P331477

CATALOG NUMBER: S122DIW-S290D970U835-4F0-1E-UDD-A

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°	5.1	5.4	5.5	5.9	6.0	6.2	6.2	6.4	6.6	6.5	6.6
90°	10.3	12.3	14.0	15.7	17.4	19.1	20.2	21.2	22.3	23.4	24.1
92.5°	18.5	18.8	19.6	20.5	21.3	22.2	22.7	23.3	23.8	24.4	24.8
95°	34.1	31.3	32.8	34.3	35.8	37.3	38.3	39.4	40.5	41.5	41.9
97.5°	44.3	36.1	39.6	43.0	46.4	49.9	50.7	51.6	52.4	53.3	53.8
100°	52.8	40.0	43.6	47.2	50.9	54.5	56.2	57.9	59.6	61.3	62.3
102.5°	194.9	176.8	146.6	116.4	86.2	56.0	58.2	60.4	62.6	64.8	66.2
105°	316.0	290.2	232.2	174.2	116.3	58.3	60.6	63.0	65.3	67.6	69.2
107.5°	391.9	359.7	290.2	220.6	151.1	81.6	79.2	76.8	74.5	72.1	71.3
110°	441.1	412.7	351.3	290.0	228.6	167.2	146.0	124.7	103.5	82.3	72.1



TEST NUMBER: P331477

CATALOG NUMBER: S122DIW-S290D970U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	488.0	482.4	467.3	452.1	436.9	421.8	344.3	266.8	189.4	111.9	73.5
115°	563.9	568.3	573.6	578.9	584.3	589.6	491.2	392.9	294.6	196.3	139.5
117.5°	634.6	638.4	642.1	645.7	649.4	653.0	629.2	605.4	581.7	557.9	520.9
120°	681.6	685.1	688.9	692.8	696.6	700.4	703.0	705.5	708.0	710.6	697.5
122.5°	725.1	728.9	733.0	737.2	741.3	745.5	747.0	748.6	750.1	751.6	749.6
125°	787.9	791.3	795.3	799.4	803.4	807.4	808.9	810.4	811.9	813.4	814.4
127.5°	848.1	851.2	854.2	857.2	860.2	863.2	865.4	867.6	869.7	871.9	873.0
130°	886.9	889.8	892.1	894.5	896.8	899.2	901.5	903.8	906.2	908.5	909.6
132.5°	923.1	925.7	928.1	930.4	932.7	935.1	937.1	939.1	941.1	943.1	944.0
135°	974.9	977.5	979.4	981.3	983.2	985.2	987.3	989.4	991.5	993.6	994.5
137.5°	1021.0	1023.3	1025.5	1027.6	1029.8	1032.0	1034.1	1036.1	1038.2	1040.3	1041.0
140°	1051.2	1053.2	1055.5	1057.9	1060.2	1062.6	1064.5	1066.4	1068.3	1070.2	1070.6
142.5°	1078.0	1080.1	1082.8	1085.5	1088.2	1090.8	1092.6	1094.3	1096.1	1097.8	1098.1
145°	1114.3	1116.0	1119.6	1123.2	1126.8	1130.4	1131.9	1133.4	1134.9	1136.3	1136.6
147.5°	1149.5	1150.9	1154.5	1158.0	1161.6	1165.2	1166.3	1167.4	1168.5	1169.6	1169.7
150°	1171.3	1172.2	1175.6	1179.0	1182.4	1185.8	1187.1	1188.4	1189.6	1190.9	1191.0
152.5°	1191.2	1192.0	1195.2	1198.5	1201.7	1204.9	1206.2	1207.5	1208.7	1210.0	1210.0
155°	1220.2	1220.5	1223.1	1225.6	1228.2	1230.7	1232.0	1233.3	1234.5	1235.8	1235.6
157.5°	1244.9	1245.0	1246.8	1248.6	1250.3	1252.1	1253.6	1255.0	1256.5	1257.9	1257.8
160°	1260.0	1260.0	1261.3	1262.6	1263.9	1265.1	1266.4	1267.7	1268.9	1270.2	1270.1
162.5°	1272.3	1272.2	1273.3	1274.4	1275.5	1276.6	1278.0	1279.5	1280.9	1282.4	1282.2
165°	1288.7	1288.4	1289.0	1289.6	1290.3	1290.9	1292.4	1293.9	1295.4	1296.9	1296.9
167.5°	1300.9	1300.6	1301.2	1301.8	1302.4	1303.0	1304.4	1305.9	1307.4	1308.9	1308.7
170°	1307.8	1307.4	1307.8	1308.2	1308.7	1309.1	1310.6	1312.1	1313.5	1315.0	1314.8
172.5°	1312.4	1312.0	1312.4	1312.8	1313.2	1313.7	1315.2	1316.6	1318.1	1319.6	1319.4
175°	1317.5	1316.9	1317.4	1317.8	1318.2	1318.6	1320.1	1321.6	1323.1	1324.6	1324.3
177.5°	1319.6	1319.1	1319.3	1319.4	1319.6	1319.8	1321.0	1322.2	1323.3	1324.5	1324.4
180°	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5



TEST NUMBER: P331477

CATALOG NUMBER: S122DIW-S290D970U835-4F0-1E-UDD-A

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°	6.7	6.6	6.7	6.6	6.7	6.6	6.7	6.6	6.5	6.6	6.4
90°	24.5	24.9	25.4	25.8	25.4	24.9	24.5	24.1	23.4	22.3	21.2
92.5°	25.0	25.3	25.5	25.8	25.5	25.3	25.0	24.8	24.4	23.8	23.3
95°	41.7	41.5	41.3	41.1	41.3	41.5	41.7	41.9	41.5	40.5	39.4
97.5°	54.1	54.3	54.6	54.8	54.6	54.3	54.1	53.8	53.3	52.4	51.6
100°	62.7	63.2	63.6	64.0	63.6	63.2	62.7	62.3	61.3	59.6	57.9
102.5°	66.8	67.4	68.0	68.6	68.0	67.4	66.8	66.2	64.8	62.6	60.4
105°	70.1	70.9	71.8	72.6	71.8	70.9	70.1	69.2	67.6	65.3	63.0
107.5°	72.2	73.0	73.9	74.7	73.9	73.0	72.2	71.3	72.1	74.5	76.8
110°	72.9	73.8	74.6	75.5	74.6	73.8	72.9	72.1	82.3	103.5	124.7



TEST NUMBER: P331477

CATALOG NUMBER: S122DIW-S290D970U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	74.2	74.9	75.6	76.3	75.6	74.9	74.2	73.5	111.9	189.4	266.8
115°	124.2	108.9	93.6	78.4	93.6	108.9	124.2	139.5	196.3	294.6	392.9
117.5°	470.6	420.4	370.2	319.9	370.2	420.4	470.6	520.9	557.9	581.7	605.4
120°	668.9	640.2	611.5	582.9	611.5	640.2	668.9	697.5	710.6	708.0	705.5
122.5°	744.0	738.5	732.9	727.4	732.9	738.5	744.0	749.6	751.6	750.1	748.6
125°	815.1	815.7	816.3	817.0	816.3	815.7	815.1	814.4	813.4	811.9	810.4
127.5°	873.2	873.3	873.4	873.5	873.4	873.3	873.2	873.0	871.9	869.7	867.6
130°	909.3	909.1	908.9	908.7	908.9	909.1	909.3	909.6	908.5	906.2	903.8
132.5°	943.7	943.5	943.3	943.1	943.3	943.5	943.7	944.0	943.1	941.1	939.1
135°	994.1	993.6	993.2	992.8	993.2	993.6	994.1	994.5	993.6	991.5	989.4
137.5°	1040.3	1039.5	1038.8	1038.1	1038.8	1039.5	1040.3	1041.0	1040.3	1038.2	1036.1
140°	1069.6	1068.5	1067.4	1066.4	1067.4	1068.5	1069.6	1070.6	1070.2	1068.3	1066.4
142.5°	1097.1	1096.0	1095.0	1093.9	1095.0	1096.0	1097.1	1098.1	1097.8	1096.1	1094.3
145°	1135.5	1134.4	1133.4	1132.3	1133.4	1134.4	1135.5	1136.6	1136.3	1134.9	1133.4
147.5°	1168.8	1167.9	1167.0	1166.1	1167.0	1167.9	1168.8	1169.7	1169.6	1168.5	1167.4
150°	1190.0	1188.9	1187.8	1186.8	1187.8	1188.9	1190.0	1191.0	1190.9	1189.6	1188.4
152.5°	1208.6	1207.2	1205.8	1204.4	1205.8	1207.2	1208.6	1210.0	1210.0	1208.7	1207.5
155°	1233.9	1232.2	1230.5	1228.8	1230.5	1232.2	1233.9	1235.6	1235.8	1234.5	1233.3
157.5°	1256.1	1254.5	1252.8	1251.2	1252.8	1254.5	1256.1	1257.8	1257.9	1256.5	1255.0
160°	1268.6	1267.1	1265.7	1264.2	1265.7	1267.1	1268.6	1270.1	1270.2	1268.9	1267.7
162.5°	1280.3	1278.5	1276.7	1274.9	1276.7	1278.5	1280.3	1282.2	1282.4	1280.9	1279.5
165°	1295.4	1293.9	1292.4	1290.9	1292.4	1293.9	1295.4	1296.9	1296.9	1295.4	1293.9
167.5°	1306.8	1304.9	1303.0	1301.1	1303.0	1304.9	1306.8	1308.7	1308.9	1307.4	1305.9
170°	1312.9	1311.0	1309.1	1307.2	1309.1	1311.0	1312.9	1314.8	1315.0	1313.5	1312.1
172.5°	1317.5	1315.6	1313.7	1311.8	1313.7	1315.6	1317.5	1319.4	1319.6	1318.1	1316.6
175°	1322.1	1320.0	1317.9	1315.8	1317.9	1320.0	1322.1	1324.3	1324.6	1323.1	1321.6
177.5°	1322.8	1321.3	1319.8	1318.3	1319.8	1321.3	1322.8	1324.4	1324.5	1323.3	1322.2
180°	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5



TEST NUMBER: P331477

CATALOG NUMBER: S122DIW-S290D970U835-4F0-1E-UDD-A

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°	6.2	6.2	6.0	5.9	5.5	5.4	5.1	4.9	4.8	4.5	4.2
90°	20.2	19.1	17.4	15.7	14.0	12.3	10.3	8.0	5.6	3.3	1.0
92.5°	22.7	22.2	21.3	20.5	19.6	18.8	18.5	18.7	18.9	19.1	19.3
95°	38.3	37.3	35.8	34.3	32.8	31.3	34.1	41.1	48.1	55.1	62.1
97.5°	50.7	49.9	46.4	43.0	39.6	36.1	44.3	64.0	83.8	103.5	123.3
100°	56.2	54.5	50.9	47.2	43.6	40.0	52.8	81.9	110.9	140.0	169.1
102.5°	58.2	56.0	86.2	116.4	146.6	176.8	194.9	201.1	207.3	213.4	219.6
105°	60.6	58.3	116.3	174.2	232.2	290.2	316.0	309.6	303.2	296.9	290.5
107.5°	79.2	81.6	151.1	220.6	290.2	359.7	391.9	386.7	381.6	376.5	371.3
110°	146.0	167.2	228.6	290.0	351.3	412.7	441.1	436.7	432.2	427.8	423.3



TEST NUMBER: P331477

CATALOG NUMBER: S122DIW-S290D970U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	344.3	421.8	436.9	452.1	467.3	482.4	488.0	484.1	480.1	476.2	472.2
115°	491.2	589.6	584.3	578.9	573.6	568.3	563.9	560.3	556.7	553.0	549.4
117.5°	629.2	653.0	649.4	645.7	642.1	638.4	634.6	630.5	626.5	622.5	618.4
120°	703.0	700.4	696.6	692.8	688.9	685.1	681.6	678.4	675.2	672.1	668.9
122.5°	747.0	745.5	741.3	737.2	733.0	728.9	725.1	721.7	718.4	715.0	711.7
125°	808.9	807.4	803.4	799.4	795.3	791.3	787.9	785.1	782.4	779.6	776.8
127.5°	865.4	863.2	860.2	857.2	854.2	851.2	848.1	845.1	842.0	839.0	835.9
130°	901.5	899.2	896.8	894.5	892.1	889.8	886.9	883.5	880.2	876.8	873.4
132.5°	937.1	935.1	932.7	930.4	928.1	925.7	923.1	920.2	917.4	914.5	911.6
135°	987.3	985.2	983.2	981.3	979.4	977.5	974.9	971.5	968.1	964.7	961.3
137.5°	1034.1	1032.0	1029.8	1027.6	1025.5	1023.3	1021.0	1018.7	1016.3	1013.9	1011.5
140°	1064.5	1062.6	1060.2	1057.9	1055.5	1053.2	1051.2	1049.5	1047.8	1046.1	1044.4
142.5°	1092.6	1090.8	1088.2	1085.5	1082.8	1080.1	1078.0	1076.5	1075.0	1073.4	1071.9
145°	1131.9	1130.4	1126.8	1123.2	1119.6	1116.0	1114.3	1114.5	1114.7	1114.9	1115.1
147.5°	1166.3	1165.2	1161.6	1158.0	1154.5	1150.9	1149.5	1150.3	1151.1	1151.9	1152.8
150°	1187.1	1185.8	1182.4	1179.0	1175.6	1172.2	1171.3	1172.8	1174.2	1175.7	1177.2
152.5°	1206.2	1204.9	1201.7	1198.5	1195.2	1192.0	1191.2	1192.9	1194.5	1196.2	1197.9
155°	1232.0	1230.7	1228.2	1225.6	1223.1	1220.5	1220.2	1222.1	1224.0	1225.9	1227.9
157.5°	1253.6	1252.1	1250.3	1248.6	1246.8	1245.0	1244.9	1246.5	1248.1	1249.8	1251.4
160°	1266.4	1265.1	1263.9	1262.6	1261.3	1260.0	1260.0	1261.3	1262.6	1263.9	1265.1
162.5°	1278.0	1276.6	1275.5	1274.4	1273.3	1272.2	1272.3	1273.5	1274.8	1276.1	1277.4
165°	1292.4	1290.9	1290.3	1289.6	1289.0	1288.4	1288.7	1290.0	1291.2	1292.5	1293.8
167.5°	1304.4	1303.0	1302.4	1301.8	1301.2	1300.6	1300.9	1302.2	1303.5	1304.7	1306.0
170°	1310.6	1309.1	1308.7	1308.2	1307.8	1307.4	1307.8	1309.1	1310.4	1311.6	1312.9
172.5°	1315.2	1313.7	1313.2	1312.8	1312.4	1312.0	1312.4	1313.7	1314.9	1316.2	1317.5
175°	1320.1	1318.6	1318.2	1317.8	1317.4	1316.9	1317.5	1319.0	1320.4	1321.9	1323.4
177.5°	1321.0	1319.8	1319.6	1319.4	1319.3	1319.1	1319.6	1320.8	1322.0	1323.2	1324.4
180°	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5



TEST NUMBER: P331477

CATALOG NUMBER: S122DIW-S290D970U835-4F0-1E-UDD-A

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°	5.2	6.4	6.9	7.9	7.9	8.3	8.6	8.8	8.9	8.9	9.0
90°	3.3	5.6	8.0	10.3	12.3	14.0	15.7	17.4	19.1	20.2	21.2
92.5°	19.1	18.9	18.7	18.5	18.8	19.6	20.5	21.3	22.2	22.7	23.3
95°	55.1	48.1	41.1	34.1	31.3	32.8	34.3	35.8	37.3	38.3	39.4
97.5°	103.5	83.8	64.0	44.3	36.1	39.6	43.0	46.4	49.9	50.7	51.6
100°	140.0	110.9	81.9	52.8	40.0	43.6	47.2	50.9	54.5	56.2	57.9
102.5°	213.4	207.3	201.1	194.9	176.8	146.6	116.4	86.2	56.0	58.2	60.4
105°	296.9	303.2	309.6	316.0	290.2	232.2	174.2	116.3	58.3	60.6	63.0
107.5°	376.5	381.6	386.7	391.9	359.7	290.2	220.6	151.1	81.6	79.2	76.8
110°	427.8	432.2	436.7	441.1	412.7	351.3	290.0	228.6	167.2	146.0	124.7



TEST NUMBER: P331477

CATALOG NUMBER: S122DIW-S290D970U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	476.2	480.1	484.1	488.0	482.4	467.3	452.1	436.9	421.8	344.3	266.8
115°	553.0	556.7	560.3	563.9	568.3	573.6	578.9	584.3	589.6	491.2	392.9
117.5°	622.5	626.5	630.5	634.6	638.4	642.1	645.7	649.4	653.0	629.2	605.4
120°	672.1	675.2	678.4	681.6	685.1	688.9	692.8	696.6	700.4	703.0	705.5
122.5°	715.0	718.4	721.7	725.1	728.9	733.0	737.2	741.3	745.5	747.0	748.6
125°	779.6	782.4	785.1	787.9	791.3	795.3	799.4	803.4	807.4	808.9	810.4
127.5°	839.0	842.0	845.1	848.1	851.2	854.2	857.2	860.2	863.2	865.4	867.6
130°	876.8	880.2	883.5	886.9	889.8	892.1	894.5	896.8	899.2	901.5	903.8
132.5°	914.5	917.4	920.2	923.1	925.7	928.1	930.4	932.7	935.1	937.1	939.1
135°	964.7	968.1	971.5	974.9	977.5	979.4	981.3	983.2	985.2	987.3	989.4
137.5°	1013.9	1016.3	1018.7	1021.0	1023.3	1025.5	1027.6	1029.8	1032.0	1034.1	1036.1
140°	1046.1	1047.8	1049.5	1051.2	1053.2	1055.5	1057.9	1060.2	1062.6	1064.5	1066.4
142.5°	1073.4	1075.0	1076.5	1078.0	1080.1	1082.8	1085.5	1088.2	1090.8	1092.6	1094.3
145°	1114.9	1114.7	1114.5	1114.3	1116.0	1119.6	1123.2	1126.8	1130.4	1131.9	1133.4
147.5°	1151.9	1151.1	1150.3	1149.5	1150.9	1154.5	1158.0	1161.6	1165.2	1166.3	1167.4
150°	1175.7	1174.2	1172.8	1171.3	1172.2	1175.6	1179.0	1182.4	1185.8	1187.1	1188.4
152.5°	1196.2	1194.5	1192.9	1191.2	1192.0	1195.2	1198.5	1201.7	1204.9	1206.2	1207.5
155°	1225.9	1224.0	1222.1	1220.2	1220.5	1223.1	1225.6	1228.2	1230.7	1232.0	1233.3
157.5°	1249.8	1248.1	1246.5	1244.9	1245.0	1246.8	1248.6	1250.3	1252.1	1253.6	1255.0
160°	1263.9	1262.6	1261.3	1260.0	1260.0	1261.3	1262.6	1263.9	1265.1	1266.4	1267.7
162.5°	1276.1	1274.8	1273.5	1272.3	1272.2	1273.3	1274.4	1275.5	1276.6	1278.0	1279.5
165°	1292.5	1291.2	1290.0	1288.7	1288.4	1289.0	1289.6	1290.3	1290.9	1292.4	1293.9
167.5°	1304.7	1303.5	1302.2	1300.9	1300.6	1301.2	1301.8	1302.4	1303.0	1304.4	1305.9
170°	1311.6	1310.4	1309.1	1307.8	1307.4	1307.8	1308.2	1308.7	1309.1	1310.6	1312.1
172.5°	1316.2	1314.9	1313.7	1312.4	1312.0	1312.4	1312.8	1313.2	1313.7	1315.2	1316.6
175°	1321.9	1320.4	1319.0	1317.5	1316.9	1317.4	1317.8	1318.2	1318.6	1320.1	1321.6
177.5°	1323.2	1322.0	1320.8	1319.6	1319.1	1319.3	1319.4	1319.6	1319.8	1321.0	1322.2
180°	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5



TEST NUMBER: P331477

CATALOG NUMBER: S122DIW-S290D970U835-4F0-1E-UDD-A

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°	9.4	9.6	9.5	9.6	9.9	9.8	9.9
90°	22.3	23.4	24.1	24.5	24.9	25.4	25.8
92.5°	23.8	24.4	24.8	25.0	25.3	25.5	25.8
95°	40.5	41.5	41.9	41.7	41.5	41.3	41.1
97.5°	52.4	53.3	53.8	54.1	54.3	54.6	54.8
100°	59.6	61.3	62.3	62.7	63.2	63.6	64.0
102.5°	62.6	64.8	66.2	66.8	67.4	68.0	68.6
105°	65.3	67.6	69.2	70.1	70.9	71.8	72.6
107.5°	74.5	72.1	71.3	72.2	73.0	73.9	74.7
110°	103.5	82.3	72.1	72.9	73.8	74.6	75.5



TEST NUMBER: P331477

CATALOG NUMBER: S122DIW-S290D970U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	189.4	111.9	73.5	74.2	74.9	75.6	76.3
115°	294.6	196.3	139.5	124.2	108.9	93.6	78.4
117.5°	581.7	557.9	520.9	470.6	420.4	370.2	319.9
120°	708.0	710.6	697.5	668.9	640.2	611.5	582.9
122.5°	750.1	751.6	749.6	744.0	738.5	732.9	727.4
125°	811.9	813.4	814.4	815.1	815.7	816.3	817.0
127.5°	869.7	871.9	873.0	873.2	873.3	873.4	873.5
130°	906.2	908.5	909.6	909.3	909.1	908.9	908.7
132.5°	941.1	943.1	944.0	943.7	943.5	943.3	943.1
135°	991.5	993.6	994.5	994.1	993.6	993.2	992.8
137.5°	1038.2	1040.3	1041.0	1040.3	1039.5	1038.8	1038.1
140°	1068.3	1070.2	1070.6	1069.6	1068.5	1067.4	1066.4
142.5°	1096.1	1097.8	1098.1	1097.1	1096.0	1095.0	1093.9
145°	1134.9	1136.3	1136.6	1135.5	1134.4	1133.4	1132.3
147.5°	1168.5	1169.6	1169.7	1168.8	1167.9	1167.0	1166.1
150°	1189.6	1190.9	1191.0	1190.0	1188.9	1187.8	1186.8
152.5°	1208.7	1210.0	1210.0	1208.6	1207.2	1205.8	1204.4
155°	1234.5	1235.8	1235.6	1233.9	1232.2	1230.5	1228.8
157.5°	1256.5	1257.9	1257.8	1256.1	1254.5	1252.8	1251.2
160°	1268.9	1270.2	1270.1	1268.6	1267.1	1265.7	1264.2
162.5°	1280.9	1282.4	1282.2	1280.3	1278.5	1276.7	1274.9
165°	1295.4	1296.9	1296.9	1295.4	1293.9	1292.4	1290.9
167.5°	1307.4	1308.9	1308.7	1306.8	1304.9	1303.0	1301.1
170°	1313.5	1315.0	1314.8	1312.9	1311.0	1309.1	1307.2
172.5°	1318.1	1319.6	1319.4	1317.5	1315.6	1313.7	1311.8
175°	1323.1	1324.6	1324.3	1322.1	1320.0	1317.9	1315.8
177.5°	1323.3	1324.5	1324.4	1322.8	1321.3	1319.8	1318.3
180°	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5

(END OF REPORT)