

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: P331483-930

Luminaire Tested: **S122DIW-S290D1240U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331483-930  
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-S290D1240U930-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1240 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5105.7 lumens  
Efficiency: N/A  
Efficacy: 109.6 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

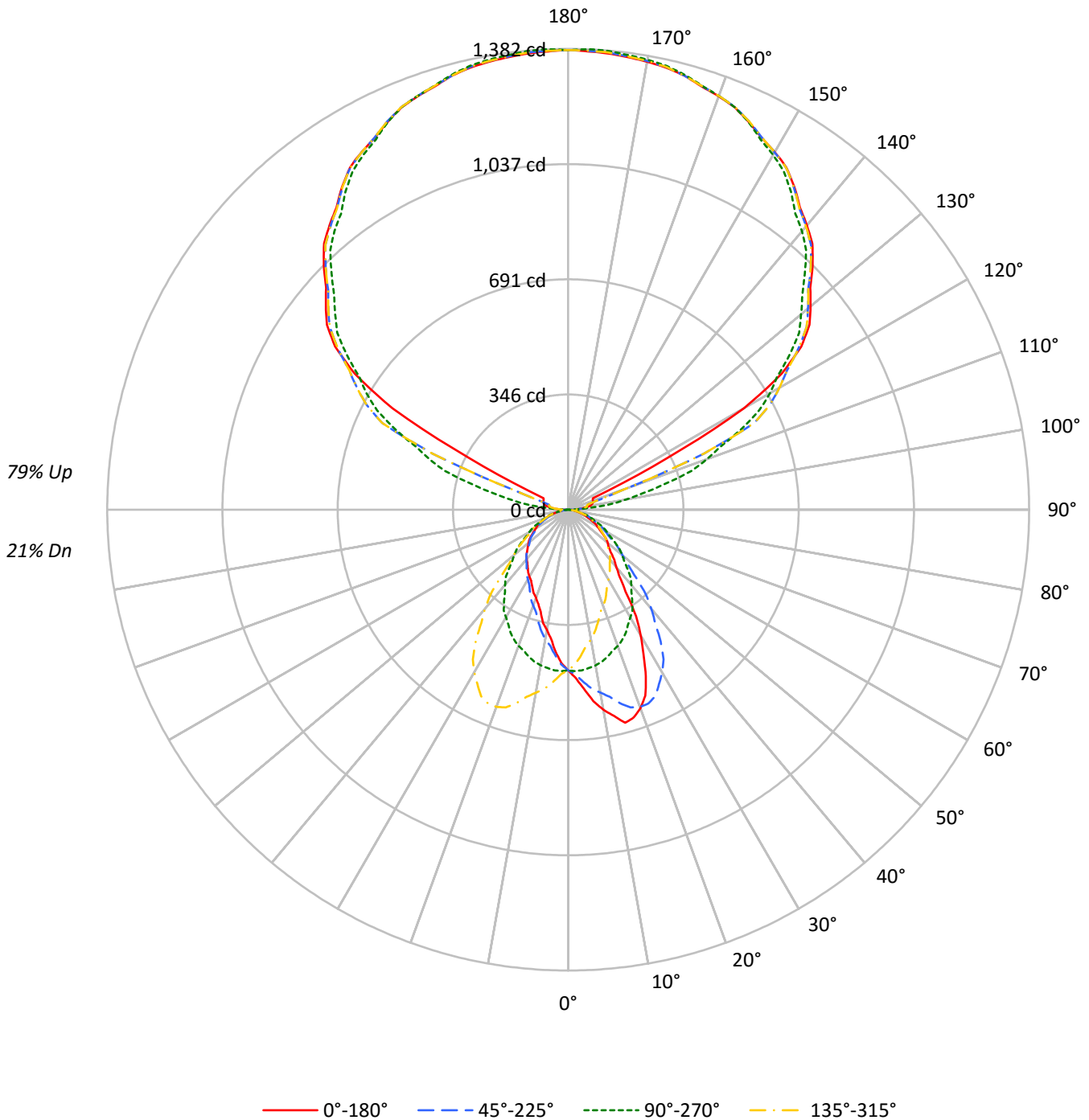
Input Watts (W): 46.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	50	46	42	39	33	30	28	21	20	18	13
4	70	60	52	47	61	53	47	42	41	36	33	29	27	24	19	17	16	12
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	19	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	15	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	23	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



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**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°	15.5	0.3
90°-100°	46.0	0.9
100°-110°	168.6	3.3
110°-120°	450.7	8.8
120°-130°	744.0	14.6
130°-140°	791.2	15.5
140°-150°	735.4	14.4
150°-160°	591.2	11.6
160°-170°	381.0	7.5
170°-180°	131.1	2.6
0°-30°	373.0	7.3
0°-40°	577.3	11.3
0°-60°	902.6	17.7
0°-90°	1066.6	20.9
90°-120°	665.3	13.0
90°-150°	2935.8	57.5
90°-180°	4039.0	79.1
0°-180°	5105.7	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°	27	1	27	1	27	12
95°	43	65	43	65	43	40
105°	76	303	76	303	76	79
115°	82	574	82	574	82	205
125°	853	811	853	811	853	738
135°	1036	1003	1036	1003	1036	799
145°	1182	1164	1182	1164	1182	739
155°	1282	1282	1282	1282	1282	592
165°	1347	1350	1347	1350	1347	380
175°	1373	1381	1373	1381	1373	131
180°	1378	1378	1378	1378	1378	



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**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°	9.2	9.1	9.2	9.0	8.9	8.9	8.6	8.3	8.2	8.2	7.9
90°	26.9	26.5	26.0	25.6	25.2	24.4	23.2	22.2	21.0	20.0	18.2
92.5°	26.9	26.7	26.4	26.1	25.8	25.4	24.9	24.3	23.7	23.2	22.3
95°	42.9	43.1	43.3	43.5	43.8	43.3	42.2	41.1	40.0	38.9	37.3
97.5°	57.2	57.0	56.7	56.4	56.2	55.6	54.7	53.8	52.9	52.1	48.5
100°	66.9	66.4	66.0	65.5	65.1	63.9	62.1	60.4	58.6	56.8	53.1
102.5°	71.6	71.0	70.4	69.7	69.1	67.7	65.4	63.0	60.7	58.5	89.9
105°	75.8	74.9	74.0	73.1	72.2	70.6	68.2	65.7	63.3	60.8	121.3
107.5°	78.0	77.1	76.2	75.3	74.4	75.3	77.7	80.2	82.7	85.2	157.8
110°	78.8	77.9	77.0	76.1	75.3	85.9	108.0	130.2	152.4	174.6	238.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	79.6	78.8	78.2	77.5	76.7	116.8	197.7	278.5	359.4	440.2	456.1
115°	81.8	97.8	113.7	129.6	145.6	204.9	307.5	410.1	512.7	615.4	609.8
117.5°	333.9	386.4	438.8	491.2	543.6	582.3	607.1	631.9	656.7	681.6	677.8
120°	608.4	638.3	668.2	698.1	728.1	741.7	739.0	736.4	733.7	731.0	727.1
122.5°	759.1	765.0	770.8	776.6	782.4	784.5	782.9	781.3	779.7	778.1	773.8
125°	852.7	852.1	851.4	850.7	850.0	849.0	847.4	845.9	844.3	842.8	838.5
127.5°	911.7	911.6	911.5	911.3	911.3	910.0	907.8	905.5	903.3	901.0	897.8
130°	948.4	948.7	948.9	949.1	949.3	948.2	945.8	943.4	940.9	938.5	936.0
132.5°	984.4	984.6	984.8	985.0	985.2	984.3	982.2	980.2	978.0	976.0	973.5
135°	1036.2	1036.7	1037.1	1037.5	1038.0	1037.1	1034.9	1032.7	1030.5	1028.3	1026.2
137.5°	1083.5	1084.3	1085.0	1085.7	1086.5	1085.8	1083.6	1081.4	1079.3	1077.1	1074.8
140°	1113.0	1114.1	1115.2	1116.3	1117.4	1117.0	1115.0	1113.0	1111.0	1109.1	1106.6
142.5°	1141.7	1142.8	1143.9	1145.1	1146.1	1145.8	1144.0	1142.2	1140.4	1138.6	1135.7
145°	1181.9	1182.9	1184.1	1185.1	1186.3	1186.0	1184.5	1182.9	1181.4	1179.8	1176.1
147.5°	1217.2	1218.1	1219.0	1219.9	1220.8	1220.7	1219.6	1218.5	1217.3	1216.1	1212.4
150°	1238.7	1239.7	1240.9	1242.0	1243.1	1243.0	1241.7	1240.3	1239.0	1237.7	1234.1
152.5°	1257.0	1258.5	1260.0	1261.4	1262.9	1263.0	1261.6	1260.3	1259.0	1257.6	1254.3
155°	1282.5	1284.3	1286.1	1287.8	1289.6	1289.9	1288.6	1287.2	1285.9	1284.6	1281.9
157.5°	1305.9	1307.7	1309.4	1311.1	1312.8	1313.0	1311.4	1309.9	1308.4	1306.9	1305.0
160°	1319.5	1321.0	1322.6	1324.1	1325.7	1325.8	1324.5	1323.1	1321.8	1320.5	1319.2
162.5°	1330.6	1332.5	1334.4	1336.4	1338.2	1338.5	1336.9	1335.5	1333.9	1332.4	1331.3
165°	1347.4	1348.9	1350.5	1352.0	1353.6	1353.6	1352.0	1350.5	1348.9	1347.4	1346.7
167.5°	1358.0	1359.9	1362.0	1363.9	1366.0	1366.1	1364.6	1363.0	1361.5	1359.9	1359.3
170°	1364.3	1366.4	1368.3	1370.4	1372.3	1372.6	1371.0	1369.5	1367.9	1366.4	1365.9
172.5°	1369.1	1371.1	1373.1	1375.1	1377.1	1377.3	1375.7	1374.2	1372.6	1371.1	1370.7
175°	1373.3	1375.5	1377.8	1380.0	1382.2	1382.5	1381.0	1379.4	1377.9	1376.3	1375.9
177.5°	1375.9	1377.5	1379.1	1380.7	1382.3	1382.5	1381.2	1380.0	1378.8	1377.5	1377.3
180°	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3



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**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°	7.7	7.3	7.0	6.9	6.0	5.5	4.4	3.4	3.8	4.2	4.3
90°	16.4	14.6	12.9	10.8	8.3	5.9	3.4	1.0	3.4	5.9	8.3
92.5°	21.4	20.5	19.6	19.2	19.5	19.7	19.9	20.1	19.9	19.7	19.5
95°	35.8	34.2	32.7	35.5	42.9	50.2	57.5	64.8	57.5	50.2	42.9
97.5°	44.8	41.3	37.7	46.2	66.9	87.4	108.0	128.7	108.0	87.4	66.9
100°	49.3	45.6	41.7	55.1	85.4	115.8	146.2	176.5	146.2	115.8	85.4
102.5°	121.5	153.0	184.5	203.5	209.9	216.3	222.7	229.2	222.7	216.3	209.9
105°	181.8	242.4	302.9	329.8	323.1	316.5	309.8	303.2	309.8	316.5	323.1
107.5°	230.3	302.9	375.4	409.0	403.7	398.3	392.9	387.6	392.9	398.3	403.7
110°	302.6	366.7	430.7	460.4	455.8	451.1	446.5	441.8	446.5	451.1	455.8





TEST NUMBER: P331483-930

CATALOG NUMBER: S122DIW-S290D1240U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	471.9	487.7	503.5	509.4	505.2	501.1	497.0	492.8	497.0	501.1	505.2
115°	604.3	598.8	593.2	588.6	584.7	581.0	577.2	573.5	577.2	581.0	584.7
117.5°	673.9	670.1	666.3	662.3	658.1	653.9	649.7	645.5	649.7	653.9	658.1
120°	723.1	719.1	715.1	711.4	708.1	704.7	701.5	698.1	701.5	704.7	708.1
122.5°	769.4	765.1	760.8	756.8	753.3	749.8	746.3	742.8	746.3	749.8	753.3
125°	834.3	830.1	825.9	822.3	819.5	816.6	813.7	810.8	813.7	816.6	819.5
127.5°	894.7	891.5	888.4	885.3	882.1	878.8	875.6	872.5	875.6	878.8	882.1
130°	933.6	931.2	928.7	925.8	922.2	918.7	915.1	911.6	915.1	918.7	922.2
132.5°	971.1	968.7	966.2	963.5	960.5	957.5	954.5	951.5	954.5	957.5	960.5
135°	1024.3	1022.2	1020.3	1017.5	1013.9	1010.4	1006.8	1003.3	1006.8	1010.4	1013.9
137.5°	1072.6	1070.3	1068.0	1065.7	1063.2	1060.7	1058.3	1055.7	1058.3	1060.7	1063.2
140°	1104.2	1101.7	1099.3	1097.1	1095.4	1093.6	1091.8	1090.1	1091.8	1093.6	1095.4
142.5°	1132.9	1130.2	1127.4	1125.2	1123.6	1122.0	1120.4	1118.8	1120.4	1122.0	1123.6
145°	1172.3	1168.6	1164.7	1163.0	1163.2	1163.4	1163.7	1163.8	1163.7	1163.4	1163.2
147.5°	1208.7	1204.9	1201.3	1199.8	1200.6	1201.5	1202.3	1203.1	1202.3	1201.5	1200.6
150°	1230.6	1227.0	1223.5	1222.5	1224.0	1225.6	1227.2	1228.7	1227.2	1225.6	1224.0
152.5°	1250.9	1247.5	1244.1	1243.3	1245.0	1246.8	1248.5	1250.3	1248.5	1246.8	1245.0
155°	1279.2	1276.6	1273.9	1273.6	1275.5	1277.6	1279.5	1281.6	1279.5	1277.6	1275.5
157.5°	1303.2	1301.3	1299.4	1299.3	1301.1	1302.7	1304.4	1306.1	1304.4	1302.7	1301.1
160°	1317.8	1316.5	1315.2	1315.2	1316.5	1317.8	1319.2	1320.5	1319.2	1317.8	1316.5
162.5°	1330.1	1328.9	1327.8	1327.9	1329.3	1330.6	1331.9	1333.3	1331.9	1330.6	1329.3
165°	1346.1	1345.4	1344.8	1345.1	1346.4	1347.7	1349.1	1350.4	1349.1	1347.7	1346.4
167.5°	1358.7	1358.1	1357.5	1357.8	1359.2	1360.5	1361.8	1363.2	1361.8	1360.5	1359.2
170°	1365.5	1365.0	1364.6	1365.0	1366.4	1367.7	1369.0	1370.4	1369.0	1367.7	1366.4
172.5°	1370.2	1369.8	1369.4	1369.8	1371.1	1372.5	1373.8	1375.1	1373.8	1372.5	1371.1
175°	1375.4	1375.0	1374.5	1375.1	1376.6	1378.2	1379.7	1381.3	1379.7	1378.2	1376.6
177.5°	1377.1	1377.0	1376.8	1377.3	1378.6	1379.8	1381.0	1382.3	1381.0	1379.8	1378.6
180°	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3



TEST NUMBER: P331483-930

CATALOG NUMBER: S122DIW-S290D1240U930-4F0-1E-UDD-A

**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°	4.6	5.0	5.1	5.5	5.7	6.0	6.0	6.2	6.4	6.4	6.5
90°	10.8	12.9	14.6	16.4	18.2	20.0	21.0	22.2	23.2	24.4	25.2
92.5°	19.2	19.6	20.5	21.4	22.3	23.2	23.7	24.3	24.9	25.4	25.8
95°	35.5	32.7	34.2	35.8	37.3	38.9	40.0	41.1	42.2	43.3	43.8
97.5°	46.2	37.7	41.3	44.8	48.5	52.1	52.9	53.8	54.7	55.6	56.2
100°	55.1	41.7	45.6	49.3	53.1	56.8	58.6	60.4	62.1	63.9	65.1
102.5°	203.5	184.5	153.0	121.5	89.9	58.5	60.7	63.0	65.4	67.7	69.1
105°	329.8	302.9	242.4	181.8	121.3	60.8	63.3	65.7	68.2	70.6	72.2
107.5°	409.0	375.4	302.9	230.3	157.8	85.2	82.7	80.2	77.7	75.3	74.4
110°	460.4	430.7	366.7	302.6	238.6	174.6	152.4	130.2	108.0	85.9	75.3



TEST NUMBER: P331483-930

CATALOG NUMBER: S122DIW-S290D1240U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	509.4	503.5	487.7	471.9	456.1	440.2	359.4	278.5	197.7	116.8	76.7
115°	588.6	593.2	598.8	604.3	609.8	615.4	512.7	410.1	307.5	204.9	145.6
117.5°	662.3	666.3	670.1	673.9	677.8	681.6	656.7	631.9	607.1	582.3	543.6
120°	711.4	715.1	719.1	723.1	727.1	731.0	733.7	736.4	739.0	741.7	728.1
122.5°	756.8	760.8	765.1	769.4	773.8	778.1	779.7	781.3	782.9	784.5	782.4
125°	822.3	825.9	830.1	834.3	838.5	842.8	844.3	845.9	847.4	849.0	850.0
127.5°	885.3	888.4	891.5	894.7	897.8	901.0	903.3	905.5	907.8	910.0	911.3
130°	925.8	928.7	931.2	933.6	936.0	938.5	940.9	943.4	945.8	948.2	949.3
132.5°	963.5	966.2	968.7	971.1	973.5	976.0	978.0	980.2	982.2	984.3	985.2
135°	1017.5	1020.3	1022.2	1024.3	1026.2	1028.3	1030.5	1032.7	1034.9	1037.1	1038.0
137.5°	1065.7	1068.0	1070.3	1072.6	1074.8	1077.1	1079.3	1081.4	1083.6	1085.8	1086.5
140°	1097.1	1099.3	1101.7	1104.2	1106.6	1109.1	1111.0	1113.0	1115.0	1117.0	1117.4
142.5°	1125.2	1127.4	1130.2	1132.9	1135.7	1138.6	1140.4	1142.2	1144.0	1145.8	1146.1
145°	1163.0	1164.7	1168.6	1172.3	1176.1	1179.8	1181.4	1182.9	1184.5	1186.0	1186.3
147.5°	1199.8	1201.3	1204.9	1208.7	1212.4	1216.1	1217.3	1218.5	1219.6	1220.7	1220.8
150°	1222.5	1223.5	1227.0	1230.6	1234.1	1237.7	1239.0	1240.3	1241.7	1243.0	1243.1
152.5°	1243.3	1244.1	1247.5	1250.9	1254.3	1257.6	1259.0	1260.3	1261.6	1263.0	1262.9
155°	1273.6	1273.9	1276.6	1279.2	1281.9	1284.6	1285.9	1287.2	1288.6	1289.9	1289.6
157.5°	1299.3	1299.4	1301.3	1303.2	1305.0	1306.9	1308.4	1309.9	1311.4	1313.0	1312.8
160°	1315.2	1315.2	1316.5	1317.8	1319.2	1320.5	1321.8	1323.1	1324.5	1325.8	1325.7
162.5°	1327.9	1327.8	1328.9	1330.1	1331.3	1332.4	1333.9	1335.5	1336.9	1338.5	1338.2
165°	1345.1	1344.8	1345.4	1346.1	1346.7	1347.4	1348.9	1350.5	1352.0	1353.6	1353.6
167.5°	1357.8	1357.5	1358.1	1358.7	1359.3	1359.9	1361.5	1363.0	1364.6	1366.1	1366.0
170°	1365.0	1364.6	1365.0	1365.5	1365.9	1366.4	1367.9	1369.5	1371.0	1372.6	1372.3
172.5°	1369.8	1369.4	1369.8	1370.2	1370.7	1371.1	1372.6	1374.2	1375.7	1377.3	1377.1
175°	1375.1	1374.5	1375.0	1375.4	1375.9	1376.3	1377.9	1379.4	1381.0	1382.5	1382.2
177.5°	1377.3	1376.8	1377.0	1377.1	1377.3	1377.5	1378.8	1380.0	1381.2	1382.5	1382.3
180°	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3



TEST NUMBER: P331483-930

CATALOG NUMBER: S122DIW-S290D1240U930-4F0-1E-UDD-A

**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°	6.6	6.5	6.6	6.6	6.6	6.5	6.6	6.5	6.4	6.4	6.2
90°	25.6	26.0	26.5	26.9	26.5	26.0	25.6	25.2	24.4	23.2	22.2
92.5°	26.1	26.4	26.7	26.9	26.7	26.4	26.1	25.8	25.4	24.9	24.3
95°	43.5	43.3	43.1	42.9	43.1	43.3	43.5	43.8	43.3	42.2	41.1
97.5°	56.4	56.7	57.0	57.2	57.0	56.7	56.4	56.2	55.6	54.7	53.8
100°	65.5	66.0	66.4	66.9	66.4	66.0	65.5	65.1	63.9	62.1	60.4
102.5°	69.7	70.4	71.0	71.6	71.0	70.4	69.7	69.1	67.7	65.4	63.0
105°	73.1	74.0	74.9	75.8	74.9	74.0	73.1	72.2	70.6	68.2	65.7
107.5°	75.3	76.2	77.1	78.0	77.1	76.2	75.3	74.4	75.3	77.7	80.2
110°	76.1	77.0	77.9	78.8	77.9	77.0	76.1	75.3	85.9	108.0	130.2



TEST NUMBER: P331483-930

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	77.5	78.2	78.8	79.6	78.8	78.2	77.5	76.7	116.8	197.7	278.5
115°	129.6	113.7	97.8	81.8	97.8	113.7	129.6	145.6	204.9	307.5	410.1
117.5°	491.2	438.8	386.4	333.9	386.4	438.8	491.2	543.6	582.3	607.1	631.9
120°	698.1	668.2	638.3	608.4	638.3	668.2	698.1	728.1	741.7	739.0	736.4
122.5°	776.6	770.8	765.0	759.1	765.0	770.8	776.6	782.4	784.5	782.9	781.3
125°	850.7	851.4	852.1	852.7	852.1	851.4	850.7	850.0	849.0	847.4	845.9
127.5°	911.3	911.5	911.6	911.7	911.6	911.5	911.3	911.3	910.0	907.8	905.5
130°	949.1	948.9	948.7	948.4	948.7	948.9	949.1	949.3	948.2	945.8	943.4
132.5°	985.0	984.8	984.6	984.4	984.6	984.8	985.0	985.2	984.3	982.2	980.2
135°	1037.5	1037.1	1036.7	1036.2	1036.7	1037.1	1037.5	1038.0	1037.1	1034.9	1032.7
137.5°	1085.7	1085.0	1084.3	1083.5	1084.3	1085.0	1085.7	1086.5	1085.8	1083.6	1081.4
140°	1116.3	1115.2	1114.1	1113.0	1114.1	1115.2	1116.3	1117.4	1117.0	1115.0	1113.0
142.5°	1145.1	1143.9	1142.8	1141.7	1142.8	1143.9	1145.1	1146.1	1145.8	1144.0	1142.2
145°	1185.1	1184.1	1182.9	1181.9	1182.9	1184.1	1185.1	1186.3	1186.0	1184.5	1182.9
147.5°	1219.9	1219.0	1218.1	1217.2	1218.1	1219.0	1219.9	1220.8	1220.7	1219.6	1218.5
150°	1242.0	1240.9	1239.7	1238.7	1239.7	1240.9	1242.0	1243.1	1243.0	1241.7	1240.3
152.5°	1261.4	1260.0	1258.5	1257.0	1258.5	1260.0	1261.4	1262.9	1263.0	1261.6	1260.3
155°	1287.8	1286.1	1284.3	1282.5	1284.3	1286.1	1287.8	1289.6	1289.9	1288.6	1287.2
157.5°	1311.1	1309.4	1307.7	1305.9	1307.7	1309.4	1311.1	1312.8	1313.0	1311.4	1309.9
160°	1324.1	1322.6	1321.0	1319.5	1321.0	1322.6	1324.1	1325.7	1325.8	1324.5	1323.1
162.5°	1336.4	1334.4	1332.5	1330.6	1332.5	1334.4	1336.4	1338.2	1338.5	1336.9	1335.5
165°	1352.0	1350.5	1348.9	1347.4	1348.9	1350.5	1352.0	1353.6	1353.6	1352.0	1350.5
167.5°	1363.9	1362.0	1359.9	1358.0	1359.9	1362.0	1363.9	1366.0	1366.1	1364.6	1363.0
170°	1370.4	1368.3	1366.4	1364.3	1366.4	1368.3	1370.4	1372.3	1372.6	1371.0	1369.5
172.5°	1375.1	1373.1	1371.1	1369.1	1371.1	1373.1	1375.1	1377.1	1377.3	1375.7	1374.2
175°	1380.0	1377.8	1375.5	1373.3	1375.5	1377.8	1380.0	1382.2	1382.5	1381.0	1379.4
177.5°	1380.7	1379.1	1377.5	1375.9	1377.5	1379.1	1380.7	1382.3	1382.5	1381.2	1380.0
180°	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3



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**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°	6.0	6.0	5.7	5.5	5.1	5.0	4.6	4.3	4.2	3.8	3.4
90°	21.0	20.0	18.2	16.4	14.6	12.9	10.8	8.3	5.9	3.4	1.0
92.5°	23.7	23.2	22.3	21.4	20.5	19.6	19.2	19.5	19.7	19.9	20.1
95°	40.0	38.9	37.3	35.8	34.2	32.7	35.5	42.9	50.2	57.5	64.8
97.5°	52.9	52.1	48.5	44.8	41.3	37.7	46.2	66.9	87.4	108.0	128.7
100°	58.6	56.8	53.1	49.3	45.6	41.7	55.1	85.4	115.8	146.2	176.5
102.5°	60.7	58.5	89.9	121.5	153.0	184.5	203.5	209.9	216.3	222.7	229.2
105°	63.3	60.8	121.3	181.8	242.4	302.9	329.8	323.1	316.5	309.8	303.2
107.5°	82.7	85.2	157.8	230.3	302.9	375.4	409.0	403.7	398.3	392.9	387.6
110°	152.4	174.6	238.6	302.6	366.7	430.7	460.4	455.8	451.1	446.5	441.8



TEST NUMBER: P331483-930

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	359.4	440.2	456.1	471.9	487.7	503.5	509.4	505.2	501.1	497.0	492.8
115°	512.7	615.4	609.8	604.3	598.8	593.2	588.6	584.7	581.0	577.2	573.5
117.5°	656.7	681.6	677.8	673.9	670.1	666.3	662.3	658.1	653.9	649.7	645.5
120°	733.7	731.0	727.1	723.1	719.1	715.1	711.4	708.1	704.7	701.5	698.1
122.5°	779.7	778.1	773.8	769.4	765.1	760.8	756.8	753.3	749.8	746.3	742.8
125°	844.3	842.8	838.5	834.3	830.1	825.9	822.3	819.5	816.6	813.7	810.8
127.5°	903.3	901.0	897.8	894.7	891.5	888.4	885.3	882.1	878.8	875.6	872.5
130°	940.9	938.5	936.0	933.6	931.2	928.7	925.8	922.2	918.7	915.1	911.6
132.5°	978.0	976.0	973.5	971.1	968.7	966.2	963.5	960.5	957.5	954.5	951.5
135°	1030.5	1028.3	1026.2	1024.3	1022.2	1020.3	1017.5	1013.9	1010.4	1006.8	1003.3
137.5°	1079.3	1077.1	1074.8	1072.6	1070.3	1068.0	1065.7	1063.2	1060.7	1058.3	1055.7
140°	1111.0	1109.1	1106.6	1104.2	1101.7	1099.3	1097.1	1095.4	1093.6	1091.8	1090.1
142.5°	1140.4	1138.6	1135.7	1132.9	1130.2	1127.4	1125.2	1123.6	1122.0	1120.4	1118.8
145°	1181.4	1179.8	1176.1	1172.3	1168.6	1164.7	1163.0	1163.2	1163.4	1163.7	1163.8
147.5°	1217.3	1216.1	1212.4	1208.7	1204.9	1201.3	1199.8	1200.6	1201.5	1202.3	1203.1
150°	1239.0	1237.7	1234.1	1230.6	1227.0	1223.5	1222.5	1224.0	1225.6	1227.2	1228.7
152.5°	1259.0	1257.6	1254.3	1250.9	1247.5	1244.1	1243.3	1245.0	1246.8	1248.5	1250.3
155°	1285.9	1284.6	1281.9	1279.2	1276.6	1273.9	1273.6	1275.5	1277.6	1279.5	1281.6
157.5°	1308.4	1306.9	1305.0	1303.2	1301.3	1299.4	1299.3	1301.1	1302.7	1304.4	1306.1
160°	1321.8	1320.5	1319.2	1317.8	1316.5	1315.2	1315.2	1316.5	1317.8	1319.2	1320.5
162.5°	1333.9	1332.4	1331.3	1330.1	1328.9	1327.8	1327.9	1329.3	1330.6	1331.9	1333.3
165°	1348.9	1347.4	1346.7	1346.1	1345.4	1344.8	1345.1	1346.4	1347.7	1349.1	1350.4
167.5°	1361.5	1359.9	1359.3	1358.7	1358.1	1357.5	1357.8	1359.2	1360.5	1361.8	1363.2
170°	1367.9	1366.4	1365.9	1365.5	1365.0	1364.6	1365.0	1366.4	1367.7	1369.0	1370.4
172.5°	1372.6	1371.1	1370.7	1370.2	1369.8	1369.4	1369.8	1371.1	1372.5	1373.8	1375.1
175°	1377.9	1376.3	1375.9	1375.4	1375.0	1374.5	1375.1	1376.6	1378.2	1379.7	1381.3
177.5°	1378.8	1377.5	1377.3	1377.1	1377.0	1376.8	1377.3	1378.6	1379.8	1381.0	1382.3
180°	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3



TEST NUMBER: P331483-930

CATALOG NUMBER: S122DIW-S290D1240U930-4F0-1E-UDD-A

**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°	4.4	5.5	6.0	6.9	7.0	7.3	7.7	7.9	8.2	8.2	8.3
90°	3.4	5.9	8.3	10.8	12.9	14.6	16.4	18.2	20.0	21.0	22.2
92.5°	19.9	19.7	19.5	19.2	19.6	20.5	21.4	22.3	23.2	23.7	24.3
95°	57.5	50.2	42.9	35.5	32.7	34.2	35.8	37.3	38.9	40.0	41.1
97.5°	108.0	87.4	66.9	46.2	37.7	41.3	44.8	48.5	52.1	52.9	53.8
100°	146.2	115.8	85.4	55.1	41.7	45.6	49.3	53.1	56.8	58.6	60.4
102.5°	222.7	216.3	209.9	203.5	184.5	153.0	121.5	89.9	58.5	60.7	63.0
105°	309.8	316.5	323.1	329.8	302.9	242.4	181.8	121.3	60.8	63.3	65.7
107.5°	392.9	398.3	403.7	409.0	375.4	302.9	230.3	157.8	85.2	82.7	80.2
110°	446.5	451.1	455.8	460.4	430.7	366.7	302.6	238.6	174.6	152.4	130.2





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	497.0	501.1	505.2	509.4	503.5	487.7	471.9	456.1	440.2	359.4	278.5
115°	577.2	581.0	584.7	588.6	593.2	598.8	604.3	609.8	615.4	512.7	410.1
117.5°	649.7	653.9	658.1	662.3	666.3	670.1	673.9	677.8	681.6	656.7	631.9
120°	701.5	704.7	708.1	711.4	715.1	719.1	723.1	727.1	731.0	733.7	736.4
122.5°	746.3	749.8	753.3	756.8	760.8	765.1	769.4	773.8	778.1	779.7	781.3
125°	813.7	816.6	819.5	822.3	825.9	830.1	834.3	838.5	842.8	844.3	845.9
127.5°	875.6	878.8	882.1	885.3	888.4	891.5	894.7	897.8	901.0	903.3	905.5
130°	915.1	918.7	922.2	925.8	928.7	931.2	933.6	936.0	938.5	940.9	943.4
132.5°	954.5	957.5	960.5	963.5	966.2	968.7	971.1	973.5	976.0	978.0	980.2
135°	1006.8	1010.4	1013.9	1017.5	1020.3	1022.2	1024.3	1026.2	1028.3	1030.5	1032.7
137.5°	1058.3	1060.7	1063.2	1065.7	1068.0	1070.3	1072.6	1074.8	1077.1	1079.3	1081.4
140°	1091.8	1093.6	1095.4	1097.1	1099.3	1101.7	1104.2	1106.6	1109.1	1111.0	1113.0
142.5°	1120.4	1122.0	1123.6	1125.2	1127.4	1130.2	1132.9	1135.7	1138.6	1140.4	1142.2
145°	1163.7	1163.4	1163.2	1163.0	1164.7	1168.6	1172.3	1176.1	1179.8	1181.4	1182.9
147.5°	1202.3	1201.5	1200.6	1199.8	1201.3	1204.9	1208.7	1212.4	1216.1	1217.3	1218.5
150°	1227.2	1225.6	1224.0	1222.5	1223.5	1227.0	1230.6	1234.1	1237.7	1239.0	1240.3
152.5°	1248.5	1246.8	1245.0	1243.3	1244.1	1247.5	1250.9	1254.3	1257.6	1259.0	1260.3
155°	1279.5	1277.6	1275.5	1273.6	1273.9	1276.6	1279.2	1281.9	1284.6	1285.9	1287.2
157.5°	1304.4	1302.7	1301.1	1299.3	1299.4	1301.3	1303.2	1305.0	1306.9	1308.4	1309.9
160°	1319.2	1317.8	1316.5	1315.2	1315.2	1316.5	1317.8	1319.2	1320.5	1321.8	1323.1
162.5°	1331.9	1330.6	1329.3	1327.9	1327.8	1328.9	1330.1	1331.3	1332.4	1333.9	1335.5
165°	1349.1	1347.7	1346.4	1345.1	1344.8	1345.4	1346.1	1346.7	1347.4	1348.9	1350.5
167.5°	1361.8	1360.5	1359.2	1357.8	1357.5	1358.1	1358.7	1359.3	1359.9	1361.5	1363.0
170°	1369.0	1367.7	1366.4	1365.0	1364.6	1365.0	1365.5	1365.9	1366.4	1367.9	1369.5
172.5°	1373.8	1372.5	1371.1	1369.8	1369.4	1369.8	1370.2	1370.7	1371.1	1372.6	1374.2
175°	1379.7	1378.2	1376.6	1375.1	1374.5	1375.0	1375.4	1375.9	1376.3	1377.9	1379.4
177.5°	1381.0	1379.8	1378.6	1377.3	1376.8	1377.0	1377.1	1377.3	1377.5	1378.8	1380.0
180°	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3



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**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°	8.6	8.9	8.9	9.0	9.2	9.1	9.2
90°	23.2	24.4	25.2	25.6	26.0	26.5	26.9
92.5°	24.9	25.4	25.8	26.1	26.4	26.7	26.9
95°	42.2	43.3	43.8	43.5	43.3	43.1	42.9
97.5°	54.7	55.6	56.2	56.4	56.7	57.0	57.2
100°	62.1	63.9	65.1	65.5	66.0	66.4	66.9
102.5°	65.4	67.7	69.1	69.7	70.4	71.0	71.6
105°	68.2	70.6	72.2	73.1	74.0	74.9	75.8
107.5°	77.7	75.3	74.4	75.3	76.2	77.1	78.0
110°	108.0	85.9	75.3	76.1	77.0	77.9	78.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	197.7	116.8	76.7	77.5	78.2	78.8	79.6
115°	307.5	204.9	145.6	129.6	113.7	97.8	81.8
117.5°	607.1	582.3	543.6	491.2	438.8	386.4	333.9
120°	739.0	741.7	728.1	698.1	668.2	638.3	608.4
122.5°	782.9	784.5	782.4	776.6	770.8	765.0	759.1
125°	847.4	849.0	850.0	850.7	851.4	852.1	852.7
127.5°	907.8	910.0	911.3	911.3	911.5	911.6	911.7
130°	945.8	948.2	949.3	949.1	948.9	948.7	948.4
132.5°	982.2	984.3	985.2	985.0	984.8	984.6	984.4
135°	1034.9	1037.1	1038.0	1037.5	1037.1	1036.7	1036.2
137.5°	1083.6	1085.8	1086.5	1085.7	1085.0	1084.3	1083.5
140°	1115.0	1117.0	1117.4	1116.3	1115.2	1114.1	1113.0
142.5°	1144.0	1145.8	1146.1	1145.1	1143.9	1142.8	1141.7
145°	1184.5	1186.0	1186.3	1185.1	1184.1	1182.9	1181.9
147.5°	1219.6	1220.7	1220.8	1219.9	1219.0	1218.1	1217.2
150°	1241.7	1243.0	1243.1	1242.0	1240.9	1239.7	1238.7
152.5°	1261.6	1263.0	1262.9	1261.4	1260.0	1258.5	1257.0
155°	1288.6	1289.9	1289.6	1287.8	1286.1	1284.3	1282.5
157.5°	1311.4	1313.0	1312.8	1311.1	1309.4	1307.7	1305.9
160°	1324.5	1325.8	1325.7	1324.1	1322.6	1321.0	1319.5
162.5°	1336.9	1338.5	1338.2	1336.4	1334.4	1332.5	1330.6
165°	1352.0	1353.6	1353.6	1352.0	1350.5	1348.9	1347.4
167.5°	1364.6	1366.1	1366.0	1363.9	1362.0	1359.9	1358.0
170°	1371.0	1372.6	1372.3	1370.4	1368.3	1366.4	1364.3
172.5°	1375.7	1377.3	1377.1	1375.1	1373.1	1371.1	1369.1
175°	1381.0	1382.5	1382.2	1380.0	1377.8	1375.5	1373.3
177.5°	1381.2	1382.5	1382.3	1380.7	1379.1	1377.5	1375.9
180°	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3	1378.3

(END OF REPORT)