

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: P331483-830

Luminaire Tested: **S122DIW-S290D1240U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331483-830  
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-S290D1240U830-4F0-1E-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**

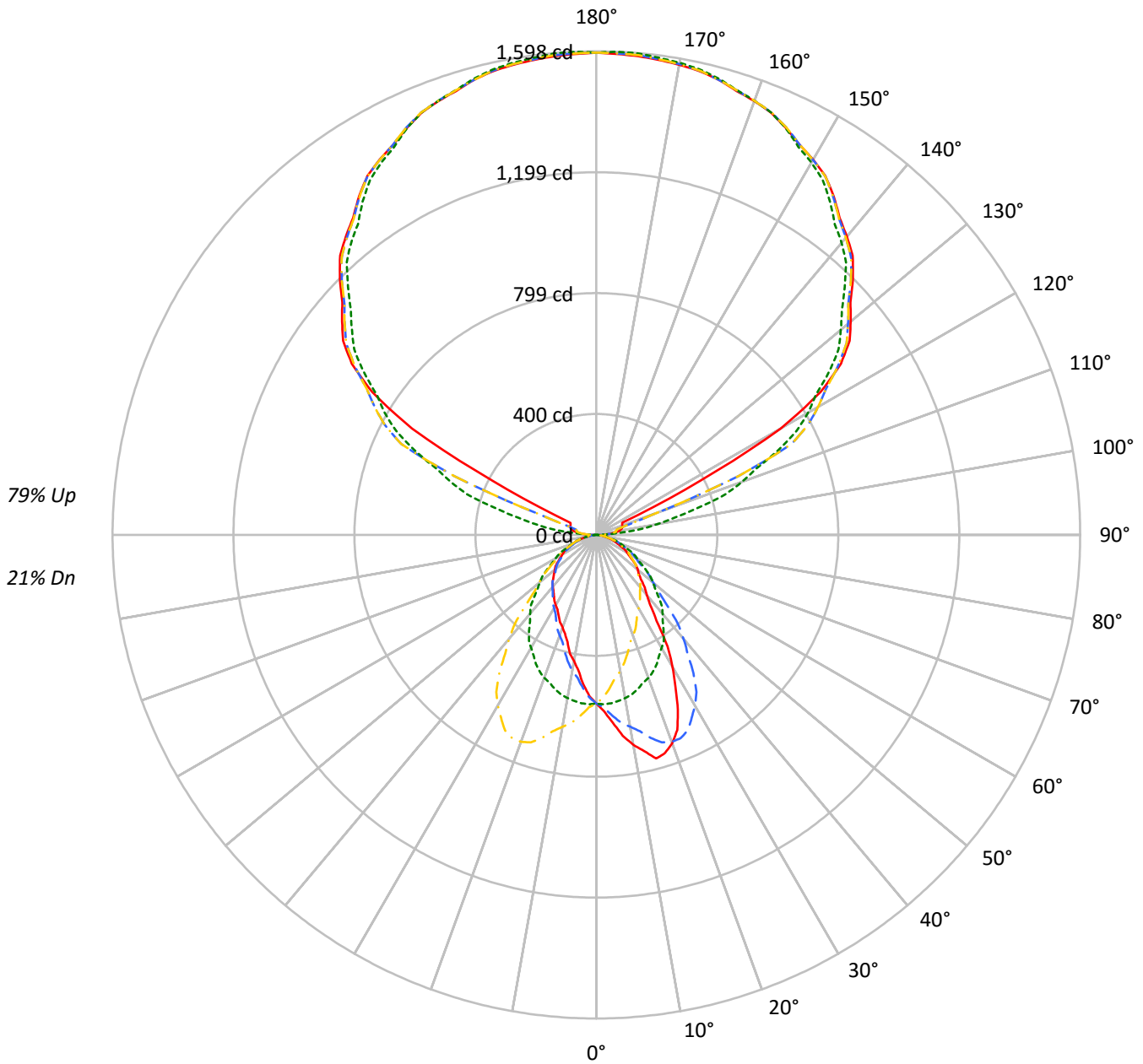
Lumens per Lamp: N/A  
Luminaire Lumens: 5902.6 lumens  
Efficiency: N/A  
Efficacy: 126.7 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 46.6  
Input Voltage (V): 120  
Input Current (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



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



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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°	8995	8995	8995	8995
5°	10084	9054	8023	9054
10°	11555	8979	6943	8979
15°	12784	8816	6135	8816
20°	12589	8639	5593	8639
25°	11352	8402	5248	8402
30°	9380	8028	4998	8028
35°	6838	7634	4819	7634
40°	5461	7172	4719	7172
45°	4772	6635	4587	6635
50°	4486	6116	4496	6116
55°	4132	5588	4374	5588
60°	3788	5025	4191	5025
65°	3454	4523	4008	4523
70°	3135	4032	3744	4032
75°	2782	3487	3313	3487
80°	2390	2882	2669	2882
85°	2149	2149	1593	2149



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.1	0.9
10°-20°	154.2	2.6
20°-30°	223.9	3.8
30°-40°	236.2	4.0
40°-50°	209.2	3.5
50°-60°	166.9	2.8
60°-70°	113.4	1.9
70°-80°	58.2	1.0
80°-90°	17.9	0.3
90°-100°	53.1	0.9
100°-110°	194.9	3.3
110°-120°	521.0	8.8
120°-130°	860.1	14.6
130°-140°	914.7	15.5
140°-150°	850.1	14.4
150°-160°	683.5	11.6
160°-170°	440.5	7.5
170°-180°	151.6	2.6
0°-30°	431.2	7.3
0°-40°	667.4	11.3
0°-60°	1043.5	17.7
0°-90°	1233.0	20.9
90°-120°	769.1	13.0
90°-150°	3394.0	57.5
90°-180°	4670.0	79.1
0°-180°	5902.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	557	557	557	557	557	
5°	622	559	495	559	622	62
15°	765	527	367	527	765	211
25°	637	472	295	472	637	288
35°	347	387	244	387	347	226
45°	209	291	201	291	209	164
55°	147	198	155	198	147	132
65°	90	118	105	118	90	90
75°	45	56	53	56	45	48
85°	12	12	9	12	12	14
90°	31	1	31	1	31	14
95°	50	75	50	75	50	46
105°	88	350	88	350	88	91
115°	94	663	94	663	94	237
125°	986	937	986	937	986	853
135°	1198	1160	1198	1160	1198	923
145°	1366	1346	1366	1346	1366	854
155°	1483	1482	1483	1482	1483	684
165°	1558	1561	1558	1561	1558	440
175°	1588	1597	1588	1597	1588	151
180°	1593	1593	1593	1593	1593	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1
2.5°	582.8	583.0	583.3	580.6	580.2	580.2	577.9	575.8	573.3	570.1	570.5
5°	622.2	624.5	625.4	622.8	619.0	618.6	614.9	609.0	603.3	598.9	595.7
7.5°	669.2	670.1	668.1	664.7	661.9	656.7	649.9	643.3	634.0	625.5	619.2
10°	704.8	706.2	702.5	697.6	693.5	687.5	677.7	667.6	655.4	643.7	634.2
12.5°	731.9	735.1	730.4	729.8	722.8	714.5	702.9	697.8	680.6	664.2	654.0
15°	764.8	764.6	765.1	760.9	755.8	754.5	742.2	728.6	704.5	694.7	678.1
17.5°	755.3	758.6	760.1	760.0	759.9	759.0	755.1	746.6	734.4	718.8	699.6
20°	732.7	737.0	737.6	742.5	745.4	748.9	750.5	748.1	740.6	727.5	710.9
22.5°	697.8	699.0	701.0	708.6	714.6	723.8	728.5	736.5	733.6	727.2	713.2
25°	637.2	635.1	642.5	646.4	660.3	674.9	685.4	696.9	707.2	713.4	709.4
27.5°	564.5	561.3	572.5	582.8	594.0	609.8	626.1	645.5	661.5	681.6	688.5
30°	503.1	505.1	515.8	526.7	543.8	566.1	584.6	605.7	628.7	651.1	666.8
32.5°	437.1	444.4	451.2	468.0	483.1	507.8	534.9	561.4	589.9	615.5	639.7
35°	346.9	355.4	364.9	377.0	398.2	422.8	449.2	484.9	524.0	558.8	587.5
37.5°	292.0	290.6	296.0	304.8	322.0	341.9	372.2	407.5	453.4	494.4	534.9
40°	259.1	258.3	262.0	270.2	283.2	297.8	324.4	355.4	398.0	448.2	496.3
42.5°	236.5	237.0	239.1	244.9	253.8	265.8	285.7	312.1	351.1	398.3	450.1
45°	209.0	210.5	212.8	215.7	220.7	230.6	241.8	260.6	291.4	330.8	381.7
47.5°	189.2	189.3	191.6	194.1	197.1	202.6	211.8	223.6	245.3	277.4	321.2
50°	178.6	177.1	178.8	180.7	183.9	187.8	193.8	204.9	219.4	245.3	282.0
52.5°	165.5	165.6	167.1	167.9	170.7	174.6	180.0	187.8	201.0	221.2	251.3
55°	146.8	148.0	148.8	150.1	152.7	155.4	159.8	164.9	175.1	190.3	212.6
57.5°	129.3	129.7	130.5	133.0	134.6	137.1	141.2	145.9	152.6	163.8	180.6
60°	117.3	117.3	119.0	120.1	122.2	124.8	128.0	132.5	138.6	147.7	161.3
62.5°	106.4	106.2	106.9	108.7	110.3	112.6	115.8	119.7	125.4	133.6	144.6
65°	90.4	89.9	91.2	91.6	93.3	95.7	98.3	102.4	106.9	112.8	122.7
67.5°	74.9	75.5	76.2	76.9	77.9	80.4	82.1	84.9	88.8	93.8	100.4
70°	66.4	66.4	66.4	67.0	68.3	69.6	71.3	73.6	77.3	81.5	87.6
72.5°	56.7	57.5	58.2	57.8	59.4	60.1	62.2	63.5	67.0	69.7	75.0
75°	44.6	44.6	44.6	45.6	46.3	46.8	48.2	49.5	51.2	54.6	57.4
77.5°	33.3	33.2	33.4	33.6	34.3	35.1	35.4	36.6	38.2	39.8	42.1
80°	25.7	26.1	26.3	26.8	26.8	27.1	27.4	28.9	30.0	31.0	32.5
82.5°	19.9	20.0	20.0	20.1	20.3	20.5	21.1	21.6	22.0	22.8	23.9
85°	11.6	11.3	11.3	11.8	11.6	11.6	12.0	12.4	12.4	12.6	13.3
87.5°	10.7	10.6	10.7	10.4	10.3	10.3	10.0	9.6	9.5	9.4	9.1
90°	31.1	30.6	30.1	29.6	29.1	28.2	26.9	25.6	24.3	23.1	21.0
92.5°	31.1	30.8	30.5	30.2	29.9	29.4	28.7	28.1	27.4	26.8	25.7
95°	49.6	49.9	50.0	50.3	50.6	50.0	48.8	47.5	46.3	45.0	43.2
97.5°	66.2	65.9	65.6	65.2	64.9	64.3	63.2	62.2	61.2	60.2	56.1
100°	77.3	76.7	76.3	75.7	75.2	73.9	71.8	69.8	67.8	65.7	61.4
102.5°	82.8	82.1	81.3	80.6	79.9	78.2	75.6	72.9	70.2	67.6	104.0
105°	87.7	86.6	85.6	84.5	83.5	81.6	78.8	76.0	73.1	70.3	140.3
107.5°	90.2	89.2	88.1	87.1	86.1	87.0	89.8	92.7	95.6	98.5	182.4
110°	91.0	90.1	89.1	88.0	87.0	99.2	124.9	150.5	176.2	201.8	275.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	92.0	91.1	90.4	89.5	88.7	135.1	228.6	322.0	415.5	508.9	527.3
115°	94.5	113.0	131.5	149.9	168.3	236.9	355.5	474.1	592.8	711.4	705.0
117.5°	386.0	446.7	507.3	567.9	628.5	673.2	701.8	730.6	759.2	788.0	783.5
120°	703.3	737.9	772.5	807.1	841.7	857.4	854.3	851.3	848.2	845.1	840.6
122.5°	877.6	884.4	891.1	897.8	904.5	906.9	905.1	903.2	901.4	899.6	894.6
125°	985.8	985.1	984.3	983.4	982.7	981.5	979.7	977.9	976.1	974.3	969.4
127.5°	1054.0	1053.9	1053.8	1053.6	1053.5	1052.1	1049.4	1046.8	1044.2	1041.6	1037.9
130°	1096.5	1096.7	1097.0	1097.2	1097.5	1096.2	1093.4	1090.6	1087.8	1085.0	1082.1
132.5°	1138.0	1138.2	1138.5	1138.8	1139.0	1137.9	1135.5	1133.1	1130.7	1128.3	1125.5
135°	1198.0	1198.4	1199.0	1199.5	1200.0	1199.0	1196.4	1193.8	1191.3	1188.7	1186.4
137.5°	1252.5	1253.5	1254.3	1255.2	1256.0	1255.3	1252.7	1250.2	1247.7	1245.2	1242.6
140°	1286.8	1288.0	1289.3	1290.5	1291.8	1291.4	1289.0	1286.8	1284.4	1282.1	1279.3
142.5°	1319.9	1321.2	1322.5	1323.8	1325.0	1324.6	1322.6	1320.4	1318.3	1316.3	1313.0
145°	1366.3	1367.5	1368.9	1370.1	1371.4	1371.1	1369.3	1367.5	1365.7	1364.0	1359.6
147.5°	1407.1	1408.2	1409.2	1410.3	1411.4	1411.3	1409.9	1408.6	1407.3	1405.9	1401.7
150°	1432.0	1433.2	1434.5	1435.9	1437.1	1437.0	1435.5	1433.9	1432.4	1430.9	1426.7
152.5°	1453.2	1454.9	1456.6	1458.3	1460.0	1460.1	1458.5	1457.0	1455.5	1453.9	1450.0
155°	1482.7	1484.8	1486.9	1488.8	1490.9	1491.2	1489.7	1488.1	1486.6	1485.1	1482.0
157.5°	1509.7	1511.7	1513.7	1515.7	1517.7	1517.9	1516.1	1514.4	1512.6	1510.9	1508.7
160°	1525.4	1527.2	1529.0	1530.8	1532.6	1532.7	1531.2	1529.7	1528.0	1526.5	1525.0
162.5°	1538.3	1540.5	1542.7	1544.9	1547.1	1547.4	1545.6	1543.9	1542.1	1540.4	1539.1
165°	1557.6	1559.4	1561.2	1563.0	1564.8	1564.8	1563.0	1561.2	1559.4	1557.6	1556.9
167.5°	1569.9	1572.2	1574.5	1576.8	1579.1	1579.3	1577.5	1575.7	1574.0	1572.2	1571.5
170°	1577.3	1579.6	1581.9	1584.2	1586.5	1586.8	1585.0	1583.2	1581.4	1579.6	1579.0
172.5°	1582.8	1585.1	1587.4	1589.7	1592.0	1592.2	1590.4	1588.7	1586.9	1585.1	1584.6
175°	1587.6	1590.2	1592.8	1595.3	1597.9	1598.3	1596.5	1594.7	1592.9	1591.1	1590.6
177.5°	1590.6	1592.5	1594.3	1596.2	1598.0	1598.3	1596.8	1595.3	1593.9	1592.5	1592.2
180°	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1
2.5°	571.7	570.3	569.5	566.4	563.6	560.9	560.1	560.3	556.6	553.0	551.5
5°	594.0	589.7	585.6	579.9	573.0	565.4	561.7	558.6	551.1	543.0	538.3
7.5°	613.9	607.8	599.9	589.1	579.1	567.3	559.8	553.2	542.2	530.7	523.7
10°	626.0	617.7	607.7	594.4	582.2	567.8	557.8	547.7	534.9	521.1	512.6
12.5°	636.5	625.3	615.4	598.3	583.9	565.9	554.0	539.8	526.3	510.0	501.6
15°	661.4	640.6	621.8	602.5	584.8	559.7	546.4	527.4	509.6	489.5	479.8
17.5°	680.6	657.2	627.6	603.1	582.4	554.6	535.2	512.4	491.3	468.3	455.2
20°	691.5	664.8	632.9	603.8	579.0	547.2	526.0	502.8	478.2	452.2	438.1
22.5°	698.0	670.0	638.4	601.2	572.1	541.3	514.6	489.0	464.1	436.1	421.3
25°	700.1	674.5	641.0	599.1	563.5	528.7	496.5	471.6	441.5	415.4	393.8
27.5°	689.9	671.6	639.4	595.0	553.6	512.8	477.0	448.9	417.1	388.7	366.9
30°	677.4	666.8	635.5	591.0	545.7	501.9	462.5	430.6	398.9	370.2	347.9
32.5°	658.1	655.8	628.3	585.1	537.3	488.0	447.2	415.0	379.8	351.7	330.5
35°	620.1	630.4	613.0	572.1	521.6	468.3	424.1	387.3	350.9	324.0	304.1
37.5°	569.1	594.7	590.1	553.1	500.2	446.8	398.0	359.6	324.9	297.7	278.1
40°	534.0	566.6	571.3	538.5	485.2	430.2	378.5	340.3	306.4	281.5	261.8
42.5°	496.3	534.3	547.2	521.0	468.7	412.6	361.1	321.4	287.9	263.7	246.3
45°	433.2	483.4	506.8	491.8	441.3	383.9	330.8	290.6	260.1	237.4	223.9
47.5°	374.1	429.0	460.4	455.2	410.8	353.9	301.4	262.8	233.2	215.1	203.0
50°	332.3	388.8	426.7	428.5	388.8	332.5	279.8	243.5	216.2	199.3	189.5
52.5°	296.0	350.0	391.2	400.4	364.3	310.3	260.5	224.2	200.3	184.7	176.0
55°	248.5	294.2	340.0	356.8	327.8	276.4	230.4	198.5	176.0	165.3	157.6
57.5°	206.7	244.7	287.0	305.5	287.7	243.6	200.5	172.8	154.6	145.2	139.2
60°	184.5	214.5	252.2	274.3	258.8	219.7	182.0	155.6	140.6	132.3	126.8
62.5°	164.0	190.6	222.4	242.6	234.2	197.3	163.5	140.3	127.3	119.5	115.5
65°	135.3	156.3	181.0	199.5	194.0	166.0	138.3	118.4	108.1	101.9	98.7
67.5°	111.4	126.6	143.6	159.9	155.5	135.6	113.5	97.9	90.3	84.9	82.9
70°	96.3	107.9	123.1	136.2	132.5	116.3	98.7	85.4	78.8	74.3	72.4
72.5°	82.0	91.4	103.1	113.8	111.3	97.7	83.1	73.1	68.0	63.8	62.3
75°	61.9	69.2	76.3	83.3	82.7	72.2	63.6	55.9	51.8	48.6	48.0
77.5°	45.7	49.8	54.6	58.7	57.6	51.6	44.9	40.4	37.5	35.3	35.0
80°	34.9	37.2	40.7	43.6	42.2	39.6	34.2	31.0	28.9	26.8	25.9
82.5°	25.4	27.6	29.7	31.4	30.2	27.8	24.5	22.3	21.0	19.6	19.2
85°	13.3	14.5	15.5	15.8	15.5	13.9	12.4	11.6	10.5	9.8	9.6
87.5°	9.0	8.5	8.1	8.0	6.9	6.3	5.1	4.0	4.4	4.8	5.0
90°	18.9	16.9	14.9	12.4	9.6	6.8	4.0	1.1	4.0	6.8	9.6
92.5°	24.7	23.7	22.6	22.2	22.5	22.8	23.0	23.3	23.0	22.8	22.5
95°	41.4	39.6	37.8	41.1	49.6	58.1	66.4	74.9	66.4	58.1	49.6
97.5°	51.8	47.7	43.5	53.4	77.3	101.0	124.9	148.7	124.9	101.0	77.3
100°	57.0	52.7	48.3	63.7	98.8	133.8	169.0	204.1	169.0	133.8	98.8
102.5°	140.4	176.8	213.3	235.3	242.7	250.1	257.5	264.9	257.5	250.1	242.7
105°	210.2	280.2	350.2	381.3	373.5	365.9	358.2	350.5	358.2	365.9	373.5
107.5°	266.3	350.2	434.0	472.9	466.7	460.4	454.2	448.1	454.2	460.4	466.7
110°	349.9	424.0	497.9	532.3	526.9	521.5	516.1	510.8	516.1	521.5	526.9





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	545.5	563.8	582.1	588.9	584.1	579.3	574.6	569.8	574.6	579.3	584.1
115°	698.6	692.2	685.8	680.4	676.0	671.7	667.3	663.0	667.3	671.7	676.0
117.5°	779.1	774.7	770.3	765.7	760.8	755.9	751.1	746.2	751.1	755.9	760.8
120°	835.9	831.3	826.7	822.5	818.6	814.7	811.0	807.1	811.0	814.7	818.6
122.5°	889.5	884.5	879.5	875.0	870.9	866.9	862.8	858.8	862.8	866.9	870.9
125°	964.5	959.7	954.8	950.6	947.3	944.1	940.7	937.4	940.7	944.1	947.3
127.5°	1034.3	1030.7	1027.1	1023.4	1019.7	1016.0	1012.3	1008.6	1012.3	1016.0	1019.7
130°	1079.3	1076.5	1073.7	1070.3	1066.1	1062.1	1057.9	1053.9	1057.9	1062.1	1066.1
132.5°	1122.7	1119.8	1117.0	1113.9	1110.4	1106.9	1103.4	1099.9	1103.4	1106.9	1110.4
135°	1184.1	1181.8	1179.5	1176.3	1172.1	1168.1	1163.9	1159.9	1163.9	1168.1	1172.1
137.5°	1240.0	1237.4	1234.7	1232.0	1229.2	1226.2	1223.4	1220.5	1223.4	1226.2	1229.2
140°	1276.5	1273.7	1270.8	1268.4	1266.3	1264.3	1262.3	1260.2	1262.3	1264.3	1266.3
142.5°	1309.8	1306.6	1303.3	1300.8	1298.9	1297.1	1295.2	1293.5	1295.2	1297.1	1298.9
145°	1355.3	1350.9	1346.5	1344.5	1344.7	1345.0	1345.3	1345.5	1345.3	1345.0	1344.7
147.5°	1397.3	1393.0	1388.7	1387.0	1388.0	1389.0	1390.0	1390.9	1390.0	1389.0	1388.0
150°	1422.7	1418.5	1414.5	1413.2	1415.0	1416.9	1418.7	1420.5	1418.7	1416.9	1415.0
152.5°	1446.1	1442.2	1438.3	1437.4	1439.4	1441.3	1443.4	1445.4	1443.4	1441.3	1439.4
155°	1478.8	1475.8	1472.7	1472.3	1474.6	1477.0	1479.2	1481.6	1479.2	1477.0	1474.6
157.5°	1506.6	1504.4	1502.2	1502.1	1504.1	1506.0	1508.0	1510.0	1508.0	1506.0	1504.1
160°	1523.4	1521.9	1520.4	1520.4	1521.9	1523.4	1525.0	1526.5	1525.0	1523.4	1521.9
162.5°	1537.7	1536.3	1535.0	1535.1	1536.7	1538.2	1539.7	1541.3	1539.7	1538.2	1536.7
165°	1556.1	1555.4	1554.6	1555.0	1556.5	1558.0	1559.6	1561.1	1559.6	1558.0	1556.5
167.5°	1570.7	1570.1	1569.3	1569.7	1571.3	1572.8	1574.3	1575.9	1574.3	1572.8	1571.3
170°	1578.6	1578.0	1577.5	1578.0	1579.6	1581.1	1582.6	1584.2	1582.6	1581.1	1579.6
172.5°	1584.0	1583.6	1583.1	1583.6	1585.1	1586.7	1588.2	1589.7	1588.2	1586.7	1585.1
175°	1590.1	1589.6	1589.0	1589.7	1591.5	1593.3	1595.1	1596.9	1595.1	1593.3	1591.5
177.5°	1592.0	1591.9	1591.7	1592.2	1593.7	1595.2	1596.6	1598.0	1596.6	1595.2	1593.7
180°	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4



TEST NUMBER: P331483-830

CATALOG NUMBER: S122DIW-S290D1240U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1
2.5°	549.8	548.7	545.2	543.3	540.2	537.2	535.4	536.2	536.9	536.6	536.0
5°	534.0	529.9	523.7	518.4	514.5	507.5	504.4	502.9	501.6	500.2	498.7
7.5°	515.2	508.8	499.9	492.3	485.1	476.3	471.3	468.3	465.2	461.8	458.8
10°	501.9	492.9	483.4	472.8	464.2	456.3	449.2	444.5	440.2	436.1	433.2
12.5°	487.9	477.5	465.8	451.2	441.8	430.4	429.3	421.0	414.3	411.8	408.3
15°	465.5	450.9	436.1	418.8	411.3	401.1	394.6	388.1	382.4	378.3	377.3
17.5°	440.1	421.2	406.5	394.1	381.8	371.3	365.3	360.2	355.4	350.1	349.3
20°	420.8	404.4	388.4	377.5	364.9	354.1	346.9	341.8	337.6	334.4	331.7
22.5°	402.4	384.6	369.9	358.0	345.5	336.9	331.1	326.1	322.7	319.2	316.6
25°	373.0	359.1	343.0	329.5	319.2	313.7	309.0	304.7	302.6	300.2	297.2
27.5°	347.2	331.8	316.8	306.3	297.3	292.4	289.0	286.1	284.1	282.7	281.0
30°	329.1	313.5	301.7	291.4	283.9	279.0	276.8	275.1	272.8	271.9	271.1
32.5°	311.6	297.6	287.5	278.5	271.5	268.2	266.3	264.7	262.9	262.0	260.2
35°	286.9	275.1	265.3	260.3	254.6	251.8	250.3	248.2	246.5	245.6	245.3
37.5°	263.6	253.4	246.9	240.6	238.2	236.5	234.4	233.0	232.4	232.3	232.1
40°	248.5	240.3	234.4	229.3	228.3	225.6	223.9	222.7	222.7	222.9	222.7
42.5°	234.9	227.3	222.3	217.8	216.6	215.1	213.3	213.3	213.6	214.3	213.6
45°	214.1	208.8	205.1	203.0	200.7	199.2	198.9	199.5	199.7	200.0	200.7
47.5°	195.0	191.4	188.1	185.8	184.7	184.5	184.3	185.4	186.4	186.8	187.8
50°	183.7	179.6	176.8	175.3	174.5	174.1	174.5	175.8	176.6	177.7	178.3
52.5°	171.1	168.1	166.3	165.0	164.8	165.0	165.0	166.5	167.9	168.3	168.6
55°	153.5	151.4	151.0	149.0	149.9	149.7	150.7	151.6	152.9	154.2	154.4
57.5°	136.0	134.3	133.2	133.4	133.7	134.6	135.4	137.0	138.3	139.7	139.8
60°	124.4	123.6	122.9	122.9	123.3	124.6	125.6	127.1	128.0	128.9	129.5
62.5°	113.8	112.9	112.3	112.6	113.8	114.5	115.7	116.6	117.4	118.3	118.6
65°	97.0	96.6	97.2	97.6	97.8	98.9	100.4	101.0	101.9	102.4	103.9
67.5°	81.5	81.6	81.5	82.1	83.4	83.6	85.0	86.5	86.7	87.6	88.5
70°	71.1	71.5	71.9	72.4	73.4	73.9	74.9	75.6	76.4	77.1	77.8
72.5°	61.5	61.5	62.0	61.9	62.9	63.7	64.7	65.3	66.2	67.0	67.6
75°	47.3	47.3	47.8	48.0	49.0	50.1	49.9	50.3	51.2	52.0	52.5
77.5°	34.6	34.1	34.6	34.8	35.2	36.0	36.2	36.8	37.8	37.5	38.0
80°	26.3	25.7	26.3	26.6	26.6	27.6	27.6	28.1	28.7	28.1	28.7
82.5°	18.8	18.5	18.9	19.0	19.3	19.4	19.7	19.8	20.5	20.2	20.5
85°	9.4	9.2	9.4	9.2	9.4	9.6	9.6	9.4	9.4	9.8	9.2
87.5°	5.4	5.7	5.9	6.3	6.6	6.9	6.9	7.2	7.4	7.4	7.5
90°	12.4	14.9	16.9	18.9	21.0	23.1	24.3	25.6	26.9	28.2	29.1
92.5°	22.2	22.6	23.7	24.7	25.7	26.8	27.4	28.1	28.7	29.4	29.9
95°	41.1	37.8	39.6	41.4	43.2	45.0	46.3	47.5	48.8	50.0	50.6
97.5°	53.4	43.5	47.7	51.8	56.1	60.2	61.2	62.2	63.2	64.3	64.9
100°	63.7	48.3	52.7	57.0	61.4	65.7	67.8	69.8	71.8	73.9	75.2
102.5°	235.3	213.3	176.8	140.4	104.0	67.6	70.2	72.9	75.6	78.2	79.9
105°	381.3	350.2	280.2	210.2	140.3	70.3	73.1	76.0	78.8	81.6	83.5
107.5°	472.9	434.0	350.2	266.3	182.4	98.5	95.6	92.7	89.8	87.0	86.1
110°	532.3	497.9	424.0	349.9	275.8	201.8	176.2	150.5	124.9	99.2	87.0



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	588.9	582.1	563.8	545.5	527.3	508.9	415.5	322.0	228.6	135.1	88.7
115°	680.4	685.8	692.2	698.6	705.0	711.4	592.8	474.1	355.5	236.9	168.3
117.5°	765.7	770.3	774.7	779.1	783.5	788.0	759.2	730.6	701.8	673.2	628.5
120°	822.5	826.7	831.3	835.9	840.6	845.1	848.2	851.3	854.3	857.4	841.7
122.5°	875.0	879.5	884.5	889.5	894.6	899.6	901.4	903.2	905.1	906.9	904.5
125°	950.6	954.8	959.7	964.5	969.4	974.3	976.1	977.9	979.7	981.5	982.7
127.5°	1023.4	1027.1	1030.7	1034.3	1037.9	1041.6	1044.2	1046.8	1049.4	1052.1	1053.5
130°	1070.3	1073.7	1076.5	1079.3	1082.1	1085.0	1087.8	1090.6	1093.4	1096.2	1097.5
132.5°	1113.9	1117.0	1119.8	1122.7	1125.5	1128.3	1130.7	1133.1	1135.5	1137.9	1139.0
135°	1176.3	1179.5	1181.8	1184.1	1186.4	1188.7	1191.3	1193.8	1196.4	1199.0	1200.0
137.5°	1232.0	1234.7	1237.4	1240.0	1242.6	1245.2	1247.7	1250.2	1252.7	1255.3	1256.0
140°	1268.4	1270.8	1273.7	1276.5	1279.3	1282.1	1284.4	1286.8	1289.0	1291.4	1291.8
142.5°	1300.8	1303.3	1306.6	1309.8	1313.0	1316.3	1318.3	1320.4	1322.6	1324.6	1325.0
145°	1344.5	1346.5	1350.9	1355.3	1359.6	1364.0	1365.7	1367.5	1369.3	1371.1	1371.4
147.5°	1387.0	1388.7	1393.0	1397.3	1401.7	1405.9	1407.3	1408.6	1409.9	1411.3	1411.4
150°	1413.2	1414.5	1418.5	1422.7	1426.7	1430.9	1432.4	1433.9	1435.5	1437.0	1437.1
152.5°	1437.4	1438.3	1442.2	1446.1	1450.0	1453.9	1455.5	1457.0	1458.5	1460.1	1460.0
155°	1472.3	1472.7	1475.8	1478.8	1482.0	1485.1	1486.6	1488.1	1489.7	1491.2	1490.9
157.5°	1502.1	1502.2	1504.4	1506.6	1508.7	1510.9	1512.6	1514.4	1516.1	1517.9	1517.7
160°	1520.4	1520.4	1521.9	1523.4	1525.0	1526.5	1528.0	1529.7	1531.2	1532.7	1532.6
162.5°	1535.1	1535.0	1536.3	1537.7	1539.1	1540.4	1542.1	1543.9	1545.6	1547.4	1547.1
165°	1555.0	1554.6	1555.4	1556.1	1556.9	1557.6	1559.4	1561.2	1563.0	1564.8	1564.8
167.5°	1569.7	1569.3	1570.1	1570.7	1571.5	1572.2	1574.0	1575.7	1577.5	1579.3	1579.1
170°	1578.0	1577.5	1578.0	1578.6	1579.0	1579.6	1581.4	1583.2	1585.0	1586.8	1586.5
172.5°	1583.6	1583.1	1583.6	1584.0	1584.6	1585.1	1586.9	1588.7	1590.4	1592.2	1592.0
175°	1589.7	1589.0	1589.6	1590.1	1590.6	1591.1	1592.9	1594.7	1596.5	1598.3	1597.9
177.5°	1592.2	1591.7	1591.9	1592.0	1592.2	1592.5	1593.9	1595.3	1596.8	1598.3	1598.0
180°	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4



TEST NUMBER: P331483-830

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1
2.5°	534.3	534.0	534.0	532.4	534.0	534.0	534.3	536.0	536.6	536.9	536.2
5°	495.7	495.0	494.0	495.0	494.0	495.0	495.7	498.7	500.2	501.6	502.9
7.5°	457.4	454.9	454.5	451.9	454.5	454.9	457.4	458.8	461.8	465.2	468.3
10°	429.5	427.8	427.5	423.5	427.5	427.8	429.5	433.2	436.1	440.2	444.5
12.5°	408.3	404.2	405.0	402.7	405.0	404.2	408.3	408.3	411.8	414.3	421.0
15°	371.5	371.5	370.6	367.0	370.6	371.5	371.5	377.3	378.3	382.4	388.1
17.5°	345.1	344.6	342.6	343.7	342.6	344.6	345.1	349.3	350.1	355.4	360.2
20°	329.3	328.0	325.5	325.5	325.5	328.0	329.3	331.7	334.4	337.6	341.8
22.5°	314.4	314.3	311.6	312.5	311.6	314.3	314.4	316.6	319.2	322.7	326.1
25°	297.0	295.3	294.0	294.6	294.0	295.3	297.0	297.2	300.2	302.6	304.7
27.5°	280.4	279.5	279.4	277.7	279.4	279.5	280.4	281.0	282.7	284.1	286.1
30°	270.9	268.7	269.1	268.1	269.1	268.7	270.9	271.1	271.9	272.8	275.1
32.5°	259.9	259.1	258.7	257.8	258.7	259.1	259.9	260.2	262.0	262.9	264.7
35°	245.0	245.2	244.1	244.5	244.1	245.2	245.0	245.3	245.6	246.5	248.2
37.5°	231.9	232.5	232.1	232.1	232.1	232.5	231.9	232.1	232.3	232.4	233.0
40°	223.3	223.3	223.3	223.9	223.3	223.3	223.3	222.7	222.9	222.7	222.7
42.5°	215.1	214.7	214.4	214.3	214.4	214.7	215.1	213.6	214.3	213.6	213.3
45°	201.0	201.7	201.9	200.9	201.9	201.7	201.0	200.7	200.0	199.7	199.5
47.5°	188.3	188.4	188.3	189.3	188.3	188.4	188.3	187.8	186.8	186.4	185.4
50°	179.5	179.0	179.5	179.0	179.5	179.0	179.5	178.3	177.7	176.6	175.8
52.5°	170.0	170.1	169.8	169.8	169.8	170.1	170.0	168.6	168.3	167.9	166.5
55°	155.2	155.6	155.4	155.4	155.4	155.6	155.2	154.4	154.2	152.9	151.6
57.5°	140.0	140.3	140.6	139.7	140.6	140.3	140.0	139.8	139.7	138.3	137.0
60°	129.3	130.4	130.2	129.8	130.2	130.4	129.3	129.5	128.9	128.0	127.1
62.5°	119.5	120.0	119.9	119.8	119.9	120.0	119.5	118.6	118.3	117.4	116.6
65°	104.5	104.9	104.2	104.9	104.2	104.9	104.5	103.9	102.4	101.9	101.0
67.5°	88.2	88.4	88.9	89.2	88.9	88.4	88.2	88.5	87.6	86.7	86.5
70°	78.1	77.9	78.6	79.3	78.6	77.9	78.1	77.8	77.1	76.4	75.6
72.5°	67.5	68.0	67.8	68.2	67.8	68.0	67.5	67.6	67.0	66.2	65.3
75°	52.0	52.7	52.5	53.1	52.5	52.7	52.0	52.5	52.0	51.2	50.3
77.5°	37.6	37.7	37.6	38.0	37.6	37.7	37.6	38.0	37.5	37.8	36.8
80°	28.7	28.3	27.8	28.7	27.8	28.3	28.7	28.7	28.1	28.7	28.1
82.5°	20.0	20.2	19.8	19.8	19.8	20.2	20.0	20.5	20.2	20.5	19.8
85°	9.2	9.0	8.6	8.6	8.6	9.0	9.2	9.2	9.8	9.4	9.4
87.5°	7.6	7.5	7.6	7.6	7.6	7.5	7.6	7.5	7.4	7.4	7.2
90°	29.6	30.1	30.6	31.1	30.6	30.1	29.6	29.1	28.2	26.9	25.6
92.5°	30.2	30.5	30.8	31.1	30.8	30.5	30.2	29.9	29.4	28.7	28.1
95°	50.3	50.0	49.9	49.6	49.9	50.0	50.3	50.6	50.0	48.8	47.5
97.5°	65.2	65.6	65.9	66.2	65.9	65.6	65.2	64.9	64.3	63.2	62.2
100°	75.7	76.3	76.7	77.3	76.7	76.3	75.7	75.2	73.9	71.8	69.8
102.5°	80.6	81.3	82.1	82.8	82.1	81.3	80.6	79.9	78.2	75.6	72.9
105°	84.5	85.6	86.6	87.7	86.6	85.6	84.5	83.5	81.6	78.8	76.0
107.5°	87.1	88.1	89.2	90.2	89.2	88.1	87.1	86.1	87.0	89.8	92.7
110°	88.0	89.1	90.1	91.0	90.1	89.1	88.0	87.0	99.2	124.9	150.5



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CATALOG NUMBER: S122DIW-S290D1240U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	89.5	90.4	91.1	92.0	91.1	90.4	89.5	88.7	135.1	228.6	322.0
115°	149.9	131.5	113.0	94.5	113.0	131.5	149.9	168.3	236.9	355.5	474.1
117.5°	567.9	507.3	446.7	386.0	446.7	507.3	567.9	628.5	673.2	701.8	730.6
120°	807.1	772.5	737.9	703.3	737.9	772.5	807.1	841.7	857.4	854.3	851.3
122.5°	897.8	891.1	884.4	877.6	884.4	891.1	897.8	904.5	906.9	905.1	903.2
125°	983.4	984.3	985.1	985.8	985.1	984.3	983.4	982.7	981.5	979.7	977.9
127.5°	1053.6	1053.8	1053.9	1054.0	1053.9	1053.8	1053.6	1053.5	1052.1	1049.4	1046.8
130°	1097.2	1097.0	1096.7	1096.5	1096.7	1097.0	1097.2	1097.5	1096.2	1093.4	1090.6
132.5°	1138.8	1138.5	1138.2	1138.0	1138.2	1138.5	1138.8	1139.0	1137.9	1135.5	1133.1
135°	1199.5	1199.0	1198.4	1198.0	1198.4	1199.0	1199.5	1200.0	1199.0	1196.4	1193.8
137.5°	1255.2	1254.3	1253.5	1252.5	1253.5	1254.3	1255.2	1256.0	1255.3	1252.7	1250.2
140°	1290.5	1289.3	1288.0	1286.8	1288.0	1289.3	1290.5	1291.8	1291.4	1289.0	1286.8
142.5°	1323.8	1322.5	1321.2	1319.9	1321.2	1322.5	1323.8	1325.0	1324.6	1322.6	1320.4
145°	1370.1	1368.9	1367.5	1366.3	1367.5	1368.9	1370.1	1371.4	1371.1	1369.3	1367.5
147.5°	1410.3	1409.2	1408.2	1407.1	1408.2	1409.2	1410.3	1411.4	1411.3	1409.9	1408.6
150°	1435.9	1434.5	1433.2	1432.0	1433.2	1434.5	1435.9	1437.1	1437.0	1435.5	1433.9
152.5°	1458.3	1456.6	1454.9	1453.2	1454.9	1456.6	1458.3	1460.0	1460.1	1458.5	1457.0
155°	1488.8	1486.9	1484.8	1482.7	1484.8	1486.9	1488.8	1490.9	1491.2	1489.7	1488.1
157.5°	1515.7	1513.7	1511.7	1509.7	1511.7	1513.7	1515.7	1517.7	1517.9	1516.1	1514.4
160°	1530.8	1529.0	1527.2	1525.4	1527.2	1529.0	1530.8	1532.6	1532.7	1531.2	1529.7
162.5°	1544.9	1542.7	1540.5	1538.3	1540.5	1542.7	1544.9	1547.1	1547.4	1545.6	1543.9
165°	1563.0	1561.2	1559.4	1557.6	1559.4	1561.2	1563.0	1564.8	1564.8	1563.0	1561.2
167.5°	1576.8	1574.5	1572.2	1569.9	1572.2	1574.5	1576.8	1579.1	1579.3	1577.5	1575.7
170°	1584.2	1581.9	1579.6	1577.3	1579.6	1581.9	1584.2	1586.5	1586.8	1585.0	1583.2
172.5°	1589.7	1587.4	1585.1	1582.8	1585.1	1587.4	1589.7	1592.0	1592.2	1590.4	1588.7
175°	1595.3	1592.8	1590.2	1587.6	1590.2	1592.8	1595.3	1597.9	1598.3	1596.5	1594.7
177.5°	1596.2	1594.3	1592.5	1590.6	1592.5	1594.3	1596.2	1598.0	1598.3	1596.8	1595.3
180°	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1
2.5°	535.4	537.2	540.2	543.3	545.2	548.7	549.8	551.5	553.0	556.6	560.3
5°	504.4	507.5	514.5	518.4	523.7	529.9	534.0	538.3	543.0	551.1	558.6
7.5°	471.3	476.3	485.1	492.3	499.9	508.8	515.2	523.7	530.7	542.2	553.2
10°	449.2	456.3	464.2	472.8	483.4	492.9	501.9	512.6	521.1	534.9	547.7
12.5°	429.3	430.4	441.8	451.2	465.8	477.5	487.9	501.6	510.0	526.3	539.8
15°	394.6	401.1	411.3	418.8	436.1	450.9	465.5	479.8	489.5	509.6	527.4
17.5°	365.3	371.3	381.8	394.1	406.5	421.2	440.1	455.2	468.3	491.3	512.4
20°	346.9	354.1	364.9	377.5	388.4	404.4	420.8	438.1	452.2	478.2	502.8
22.5°	331.1	336.9	345.5	358.0	369.9	384.6	402.4	421.3	436.1	464.1	489.0
25°	309.0	313.7	319.2	329.5	343.0	359.1	373.0	393.8	415.4	441.5	471.6
27.5°	289.0	292.4	297.3	306.3	316.8	331.8	347.2	366.9	388.7	417.1	448.9
30°	276.8	279.0	283.9	291.4	301.7	313.5	329.1	347.9	370.2	398.9	430.6
32.5°	266.3	268.2	271.5	278.5	287.5	297.6	311.6	330.5	351.7	379.8	415.0
35°	250.3	251.8	254.6	260.3	265.3	275.1	286.9	304.1	324.0	350.9	387.3
37.5°	234.4	236.5	238.2	240.6	246.9	253.4	263.6	278.1	297.7	324.9	359.6
40°	223.9	225.6	228.3	229.3	234.4	240.3	248.5	261.8	281.5	306.4	340.3
42.5°	213.3	215.1	216.6	217.8	222.3	227.3	234.9	246.3	263.7	287.9	321.4
45°	198.9	199.2	200.7	203.0	205.1	208.8	214.1	223.9	237.4	260.1	290.6
47.5°	184.3	184.5	184.7	185.8	188.1	191.4	195.0	203.0	215.1	233.2	262.8
50°	174.5	174.1	174.5	175.3	176.8	179.6	183.7	189.5	199.3	216.2	243.5
52.5°	165.0	165.0	164.8	165.0	166.3	168.1	171.1	176.0	184.7	200.3	224.2
55°	150.7	149.7	149.9	149.0	151.0	151.4	153.5	157.6	165.3	176.0	198.5
57.5°	135.4	134.6	133.7	133.4	133.2	134.3	136.0	139.2	145.2	154.6	172.8
60°	125.6	124.6	123.3	122.9	122.9	123.6	124.4	126.8	132.3	140.6	155.6
62.5°	115.7	114.5	113.8	112.6	112.3	112.9	113.8	115.5	119.5	127.3	140.3
65°	100.4	98.9	97.8	97.6	97.2	96.6	97.0	98.7	101.9	108.1	118.4
67.5°	85.0	83.6	83.4	82.1	81.5	81.6	81.5	82.9	84.9	90.3	97.9
70°	74.9	73.9	73.4	72.4	71.9	71.5	71.1	72.4	74.3	78.8	85.4
72.5°	64.7	63.7	62.9	61.9	62.0	61.5	61.5	62.3	63.8	68.0	73.1
75°	49.9	50.1	49.0	48.0	47.8	47.3	47.3	48.0	48.6	51.8	55.9
77.5°	36.2	36.0	35.2	34.8	34.6	34.1	34.6	35.0	35.3	37.5	40.4
80°	27.6	27.6	26.6	26.6	26.3	25.7	26.3	25.9	26.8	28.9	31.0
82.5°	19.7	19.4	19.3	19.0	18.9	18.5	18.8	19.2	19.6	21.0	22.3
85°	9.6	9.6	9.4	9.2	9.4	9.2	9.4	9.6	9.8	10.5	11.6
87.5°	6.9	6.9	6.6	6.3	5.9	5.7	5.4	5.0	4.8	4.4	4.0
90°	24.3	23.1	21.0	18.9	16.9	14.9	12.4	9.6	6.8	4.0	1.1
92.5°	27.4	26.8	25.7	24.7	23.7	22.6	22.2	22.5	22.8	23.0	23.3
95°	46.3	45.0	43.2	41.4	39.6	37.8	41.1	49.6	58.1	66.4	74.9
97.5°	61.2	60.2	56.1	51.8	47.7	43.5	53.4	77.3	101.0	124.9	148.7
100°	67.8	65.7	61.4	57.0	52.7	48.3	63.7	98.8	133.8	169.0	204.1
102.5°	70.2	67.6	104.0	140.4	176.8	213.3	235.3	242.7	250.1	257.5	264.9
105°	73.1	70.3	140.3	210.2	280.2	350.2	381.3	373.5	365.9	358.2	350.5
107.5°	95.6	98.5	182.4	266.3	350.2	434.0	472.9	466.7	460.4	454.2	448.1
110°	176.2	201.8	275.8	349.9	424.0	497.9	532.3	526.9	521.5	516.1	510.8



TEST NUMBER: P331483-830

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	415.5	508.9	527.3	545.5	563.8	582.1	588.9	584.1	579.3	574.6	569.8
115°	592.8	711.4	705.0	698.6	692.2	685.8	680.4	676.0	671.7	667.3	663.0
117.5°	759.2	788.0	783.5	779.1	774.7	770.3	765.7	760.8	755.9	751.1	746.2
120°	848.2	845.1	840.6	835.9	831.3	826.7	822.5	818.6	814.7	811.0	807.1
122.5°	901.4	899.6	894.6	889.5	884.5	879.5	875.0	870.9	866.9	862.8	858.8
125°	976.1	974.3	969.4	964.5	959.7	954.8	950.6	947.3	944.1	940.7	937.4
127.5°	1044.2	1041.6	1037.9	1034.3	1030.7	1027.1	1023.4	1019.7	1016.0	1012.3	1008.6
130°	1087.8	1085.0	1082.1	1079.3	1076.5	1073.7	1070.3	1066.1	1062.1	1057.9	1053.9
132.5°	1130.7	1128.3	1125.5	1122.7	1119.8	1117.0	1113.9	1110.4	1106.9	1103.4	1099.9
135°	1191.3	1188.7	1186.4	1184.1	1181.8	1179.5	1176.3	1172.1	1168.1	1163.9	1159.9
137.5°	1247.7	1245.2	1242.6	1240.0	1237.4	1234.7	1232.0	1229.2	1226.2	1223.4	1220.5
140°	1284.4	1282.1	1279.3	1276.5	1273.7	1270.8	1268.4	1266.3	1264.3	1262.3	1260.2
142.5°	1318.3	1316.3	1313.0	1309.8	1306.6	1303.3	1300.8	1298.9	1297.1	1295.2	1293.5
145°	1365.7	1364.0	1359.6	1355.3	1350.9	1346.5	1344.5	1344.7	1345.0	1345.3	1345.5
147.5°	1407.3	1405.9	1401.7	1397.3	1393.0	1388.7	1387.0	1388.0	1389.0	1390.0	1390.9
150°	1432.4	1430.9	1426.7	1422.7	1418.5	1414.5	1413.2	1415.0	1416.9	1418.7	1420.5
152.5°	1455.5	1453.9	1450.0	1446.1	1442.2	1438.3	1437.4	1439.4	1441.3	1443.4	1445.4
155°	1486.6	1485.1	1482.0	1478.8	1475.8	1472.7	1472.3	1474.6	1477.0	1479.2	1481.6
157.5°	1512.6	1510.9	1508.7	1506.6	1504.4	1502.2	1502.1	1504.1	1506.0	1508.0	1510.0
160°	1528.0	1526.5	1525.0	1523.4	1521.9	1520.4	1520.4	1521.9	1523.4	1525.0	1526.5
162.5°	1542.1	1540.4	1539.1	1537.7	1536.3	1535.0	1535.1	1536.7	1538.2	1539.7	1541.3
165°	1559.4	1557.6	1556.9	1556.1	1555.4	1554.6	1555.0	1556.5	1558.0	1559.6	1561.1
167.5°	1574.0	1572.2	1571.5	1570.7	1570.1	1569.3	1569.7	1571.3	1572.8	1574.3	1575.9
170°	1581.4	1579.6	1579.0	1578.6	1578.0	1577.5	1578.0	1579.6	1581.1	1582.6	1584.2
172.5°	1586.9	1585.1	1584.6	1584.0	1583.6	1583.1	1583.6	1585.1	1586.7	1588.2	1589.7
175°	1592.9	1591.1	1590.6	1590.1	1589.6	1589.0	1589.7	1591.5	1593.3	1595.1	1596.9
177.5°	1593.9	1592.5	1592.2	1592.0	1591.9	1591.7	1592.2	1593.7	1595.2	1596.6	1598.0
180°	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1
2.5°	560.1	560.9	563.6	566.4	569.5	570.3	571.7	570.5	570.1	573.3	575.8
5°	561.7	565.4	573.0	579.9	585.6	589.7	594.0	595.7	598.9	603.3	609.0
7.5°	559.8	567.3	579.1	589.1	599.9	607.8	613.9	619.2	625.5	634.0	643.3
10°	557.8	567.8	582.2	594.4	607.7	617.7	626.0	634.2	643.7	655.4	667.6
12.5°	554.0	565.9	583.9	598.3	615.4	625.3	636.5	654.0	664.2	680.6	697.8
15°	546.4	559.7	584.8	602.5	621.8	640.6	661.4	678.1	694.7	704.5	728.6
17.5°	535.2	554.6	582.4	603.1	627.6	657.2	680.6	699.6	718.8	734.4	746.6
20°	526.0	547.2	579.0	603.8	632.9	664.8	691.5	710.9	727.5	740.6	748.1
22.5°	514.6	541.3	572.1	601.2	638.4	670.0	698.0	713.2	727.2	733.6	736.5
25°	496.5	528.7	563.5	599.1	641.0	674.5	700.1	709.4	713.4	707.2	696.9
27.5°	477.0	512.8	553.6	595.0	639.4	671.6	689.9	688.5	681.6	661.5	645.5
30°	462.5	501.9	545.7	591.0	635.5	666.8	677.4	666.8	651.1	628.7	605.7
32.5°	447.2	488.0	537.3	585.1	628.3	655.8	658.1	639.7	615.5	589.9	561.4
35°	424.1	468.3	521.6	572.1	613.0	630.4	620.1	587.5	558.8	524.0	484.9
37.5°	398.0	446.8	500.2	553.1	590.1	594.7	569.1	534.9	494.4	453.4	407.5
40°	378.5	430.2	485.2	538.5	571.3	566.6	534.0	496.3	448.2	398.0	355.4
42.5°	361.1	412.6	468.7	521.0	547.2	534.3	496.3	450.1	398.3	351.1	312.1
45°	330.8	383.9	441.3	491.8	506.8	483.4	433.2	381.7	330.8	291.4	260.6
47.5°	301.4	353.9	410.8	455.2	460.4	429.0	374.1	321.2	277.4	245.3	223.6
50°	279.8	332.5	388.8	428.5	426.7	388.8	332.3	282.0	245.3	219.4	204.9
52.5°	260.5	310.3	364.3	400.4	391.2	350.0	296.0	251.3	221.2	201.0	187.8
55°	230.4	276.4	327.8	356.8	340.0	294.2	248.5	212.6	190.3	175.1	164.9
57.5°	200.5	243.6	287.7	305.5	287.0	244.7	206.7	180.6	163.8	152.6	145.9
60°	182.0	219.7	258.8	274.3	252.2	214.5	184.5	161.3	147.7	138.6	132.5
62.5°	163.5	197.3	234.2	242.6	222.4	190.6	164.0	144.6	133.6	125.4	119.7
65°	138.3	166.0	194.0	199.5	181.0	156.3	135.3	122.7	112.8	106.9	102.4
67.5°	113.5	135.6	155.5	159.9	143.6	126.6	111.4	100.4	93.8	88.8	84.9
70°	98.7	116.3	132.5	136.2	123.1	107.9	96.3	87.6	81.5	77.3	73.6
72.5°	83.1	97.7	111.3	113.8	103.1	91.4	82.0	75.0	69.7	67.0	63.5
75°	63.6	72.2	82.7	83.3	76.3	69.2	61.9	57.4	54.6	51.2	49.5
77.5°	44.9	51.6	57.6	58.7	54.6	49.8	45.7	42.1	39.8	38.2	36.6
80°	34.2	39.6	42.2	43.6	40.7	37.2	34.9	32.5	31.0	30.0	28.9
82.5°	24.5	27.8	30.2	31.4	29.7	27.6	25.4	23.9	22.8	22.0	21.6
85°	12.4	13.9	15.5	15.8	15.5	14.5	13.3	13.3	12.6	12.4	12.4
87.5°	5.1	6.3	6.9	8.0	8.1	8.5	9.0	9.1	9.4	9.5	9.6
90°	4.0	6.8	9.6	12.4	14.9	16.9	18.9	21.0	23.1	24.3	25.6
92.5°	23.0	22.8	22.5	22.2	22.6	23.7	24.7	25.7	26.8	27.4	28.1
95°	66.4	58.1	49.6	41.1	37.8	39.6	41.4	43.2	45.0	46.3	47.5
97.5°	124.9	101.0	77.3	53.4	43.5	47.7	51.8	56.1	60.2	61.2	62.2
100°	169.0	133.8	98.8	63.7	48.3	52.7	57.0	61.4	65.7	67.8	69.8
102.5°	257.5	250.1	242.7	235.3	213.3	176.8	140.4	104.0	67.6	70.2	72.9
105°	358.2	365.9	373.5	381.3	350.2	280.2	210.2	140.3	70.3	73.1	76.0
107.5°	454.2	460.4	466.7	472.9	434.0	350.2	266.3	182.4	98.5	95.6	92.7
110°	516.1	521.5	526.9	532.3	497.9	424.0	349.9	275.8	201.8	176.2	150.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	574.6	579.3	584.1	588.9	582.1	563.8	545.5	527.3	508.9	415.5	322.0
115°	667.3	671.7	676.0	680.4	685.8	692.2	698.6	705.0	711.4	592.8	474.1
117.5°	751.1	755.9	760.8	765.7	770.3	774.7	779.1	783.5	788.0	759.2	730.6
120°	811.0	814.7	818.6	822.5	826.7	831.3	835.9	840.6	845.1	848.2	851.3
122.5°	862.8	866.9	870.9	875.0	879.5	884.5	889.5	894.6	899.6	901.4	903.2
125°	940.7	944.1	947.3	950.6	954.8	959.7	964.5	969.4	974.3	976.1	977.9
127.5°	1012.3	1016.0	1019.7	1023.4	1027.1	1030.7	1034.3	1037.9	1041.6	1044.2	1046.8
130°	1057.9	1062.1	1066.1	1070.3	1073.7	1076.5	1079.3	1082.1	1085.0	1087.8	1090.6
132.5°	1103.4	1106.9	1110.4	1113.9	1117.0	1119.8	1122.7	1125.5	1128.3	1130.7	1133.1
135°	1163.9	1168.1	1172.1	1176.3	1179.5	1181.8	1184.1	1186.4	1188.7	1191.3	1193.8
137.5°	1223.4	1226.2	1229.2	1232.0	1234.7	1237.4	1240.0	1242.6	1245.2	1247.7	1250.2
140°	1262.3	1264.3	1266.3	1268.4	1270.8	1273.7	1276.5	1279.3	1282.1	1284.4	1286.8
142.5°	1295.2	1297.1	1298.9	1300.8	1303.3	1306.6	1309.8	1313.0	1316.3	1318.3	1320.4
145°	1345.3	1345.0	1344.7	1344.5	1346.5	1350.9	1355.3	1359.6	1364.0	1365.7	1367.5
147.5°	1390.0	1389.0	1388.0	1387.0	1388.7	1393.0	1397.3	1401.7	1405.9	1407.3	1408.6
150°	1418.7	1416.9	1415.0	1413.2	1414.5	1418.5	1422.7	1426.7	1430.9	1432.4	1433.9
152.5°	1443.4	1441.3	1439.4	1437.4	1438.3	1442.2	1446.1	1450.0	1453.9	1455.5	1457.0
155°	1479.2	1477.0	1474.6	1472.3	1472.7	1475.8	1478.8	1482.0	1485.1	1486.6	1488.1
157.5°	1508.0	1506.0	1504.1	1502.1	1502.2	1504.4	1506.6	1508.7	1510.9	1512.6	1514.4
160°	1525.0	1523.4	1521.9	1520.4	1520.4	1521.9	1523.4	1525.0	1526.5	1528.0	1529.7
162.5°	1539.7	1538.2	1536.7	1535.1	1535.0	1536.3	1537.7	1539.1	1540.4	1542.1	1543.9
165°	1559.6	1558.0	1556.5	1555.0	1554.6	1555.4	1556.1	1556.9	1557.6	1559.4	1561.2
167.5°	1574.3	1572.8	1571.3	1569.7	1569.3	1570.1	1570.7	1571.5	1572.2	1574.0	1575.7
170°	1582.6	1581.1	1579.6	1578.0	1577.5	1578.0	1578.6	1579.0	1579.6	1581.4	1583.2
172.5°	1588.2	1586.7	1585.1	1583.6	1583.1	1583.6	1584.0	1584.6	1585.1	1586.9	1588.7
175°	1595.1	1593.3	1591.5	1589.7	1589.0	1589.6	1590.1	1590.6	1591.1	1592.9	1594.7
177.5°	1596.6	1595.2	1593.7	1592.2	1591.7	1591.9	1592.0	1592.2	1592.5	1593.9	1595.3
180°	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	557.1	557.1	557.1	557.1	557.1	557.1	557.1
2.5°	577.9	580.2	580.2	580.6	583.3	583.0	582.8
5°	614.9	618.6	619.0	622.8	625.4	624.5	622.2
7.5°	649.9	656.7	661.9	664.7	668.1	670.1	669.2
10°	677.7	687.5	693.5	697.6	702.5	706.2	704.8
12.5°	702.9	714.5	722.8	729.8	730.4	735.1	731.9
15°	742.2	754.5	755.8	760.9	765.1	764.6	764.8
17.5°	755.1	759.0	759.9	760.0	760.1	758.6	755.3
20°	750.5	748.9	745.4	742.5	737.6	737.0	732.7
22.5°	728.5	723.8	714.6	708.6	701.0	699.0	697.8
25°	685.4	674.9	660.3	646.4	642.5	635.1	637.2
27.5°	626.1	609.8	594.0	582.8	572.5	561.3	564.5
30°	584.6	566.1	543.8	526.7	515.8	505.1	503.1
32.5°	534.9	507.8	483.1	468.0	451.2	444.4	437.1
35°	449.2	422.8	398.2	377.0	364.9	355.4	346.9
37.5°	372.2	341.9	322.0	304.8	296.0	290.6	292.0
40°	324.4	297.8	283.2	270.2	262.0	258.3	259.1
42.5°	285.7	265.8	253.8	244.9	239.1	237.0	236.5
45°	241.8	230.6	220.7	215.7	212.8	210.5	209.0
47.5°	211.8	202.6	197.1	194.1	191.6	189.3	189.2
50°	193.8	187.8	183.9	180.7	178.8	177.1	178.6
52.5°	180.0	174.6	170.7	167.9	167.1	165.6	165.5
55°	159.8	155.4	152.7	150.1	148.8	148.0	146.8
57.5°	141.2	137.1	134.6	133.0	130.5	129.7	129.3
60°	128.0	124.8	122.2	120.1	119.0	117.3	117.3
62.5°	115.8	112.6	110.3	108.7	106.9	106.2	106.4
65°	98.3	95.7	93.3	91.6	91.2	89.9	90.4
67.5°	82.1	80.4	77.9	76.9	76.2	75.5	74.9
70°	71.3	69.6	68.3	67.0	66.4	66.4	66.4
72.5°	62.2	60.1	59.4	57.8	58.2	57.5	56.7
75°	48.2	46.8	46.3	45.6	44.6	44.6	44.6
77.5°	35.4	35.1	34.3	33.6	33.4	33.2	33.3
80°	27.4	27.1	26.8	26.8	26.3	26.1	25.7
82.5°	21.1	20.5	20.3	20.1	20.0	20.0	19.9
85°	12.0	11.6	11.6	11.8	11.3	11.3	11.6
87.5°	10.0	10.3	10.3	10.4	10.7	10.6	10.7
90°	26.9	28.2	29.1	29.6	30.1	30.6	31.1
92.5°	28.7	29.4	29.9	30.2	30.5	30.8	31.1
95°	48.8	50.0	50.6	50.3	50.0	49.9	49.6
97.5°	63.2	64.3	64.9	65.2	65.6	65.9	66.2
100°	71.8	73.9	75.2	75.7	76.3	76.7	77.3
102.5°	75.6	78.2	79.9	80.6	81.3	82.1	82.8
105°	78.8	81.6	83.5	84.5	85.6	86.6	87.7
107.5°	89.8	87.0	86.1	87.1	88.1	89.2	90.2
110°	124.9	99.2	87.0	88.0	89.1	90.1	91.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	228.6	135.1	88.7	89.5	90.4	91.1	92.0
115°	355.5	236.9	168.3	149.9	131.5	113.0	94.5
117.5°	701.8	673.2	628.5	567.9	507.3	446.7	386.0
120°	854.3	857.4	841.7	807.1	772.5	737.9	703.3
122.5°	905.1	906.9	904.5	897.8	891.1	884.4	877.6
125°	979.7	981.5	982.7	983.4	984.3	985.1	985.8
127.5°	1049.4	1052.1	1053.5	1053.6	1053.8	1053.9	1054.0
130°	1093.4	1096.2	1097.5	1097.2	1097.0	1096.7	1096.5
132.5°	1135.5	1137.9	1139.0	1138.8	1138.5	1138.2	1138.0
135°	1196.4	1199.0	1200.0	1199.5	1199.0	1198.4	1198.0
137.5°	1252.7	1255.3	1256.0	1255.2	1254.3	1253.5	1252.5
140°	1289.0	1291.4	1291.8	1290.5	1289.3	1288.0	1286.8
142.5°	1322.6	1324.6	1325.0	1323.8	1322.5	1321.2	1319.9
145°	1369.3	1371.1	1371.4	1370.1	1368.9	1367.5	1366.3
147.5°	1409.9	1411.3	1411.4	1410.3	1409.2	1408.2	1407.1
150°	1435.5	1437.0	1437.1	1435.9	1434.5	1433.2	1432.0
152.5°	1458.5	1460.1	1460.0	1458.3	1456.6	1454.9	1453.2
155°	1489.7	1491.2	1490.9	1488.8	1486.9	1484.8	1482.7
157.5°	1516.1	1517.9	1517.7	1515.7	1513.7	1511.7	1509.7
160°	1531.2	1532.7	1532.6	1530.8	1529.0	1527.2	1525.4
162.5°	1545.6	1547.4	1547.1	1544.9	1542.7	1540.5	1538.3
165°	1563.0	1564.8	1564.8	1563.0	1561.2	1559.4	1557.6
167.5°	1577.5	1579.3	1579.1	1576.8	1574.5	1572.2	1569.9
170°	1585.0	1586.8	1586.5	1584.2	1581.9	1579.6	1577.3
172.5°	1590.4	1592.2	1592.0	1589.7	1587.4	1585.1	1582.8
175°	1596.5	1598.3	1597.9	1595.3	1592.8	1590.2	1587.6
177.5°	1596.8	1598.3	1598.0	1596.2	1594.3	1592.5	1590.6
180°	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4

(END OF REPORT)