

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: P331519-927

Luminaire Tested: **S122DIW-S485D1440U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331519-927  
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-S485D1440U927-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1440 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6265.2 lumens  
Efficiency: N/A  
Efficacy: 103.4 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

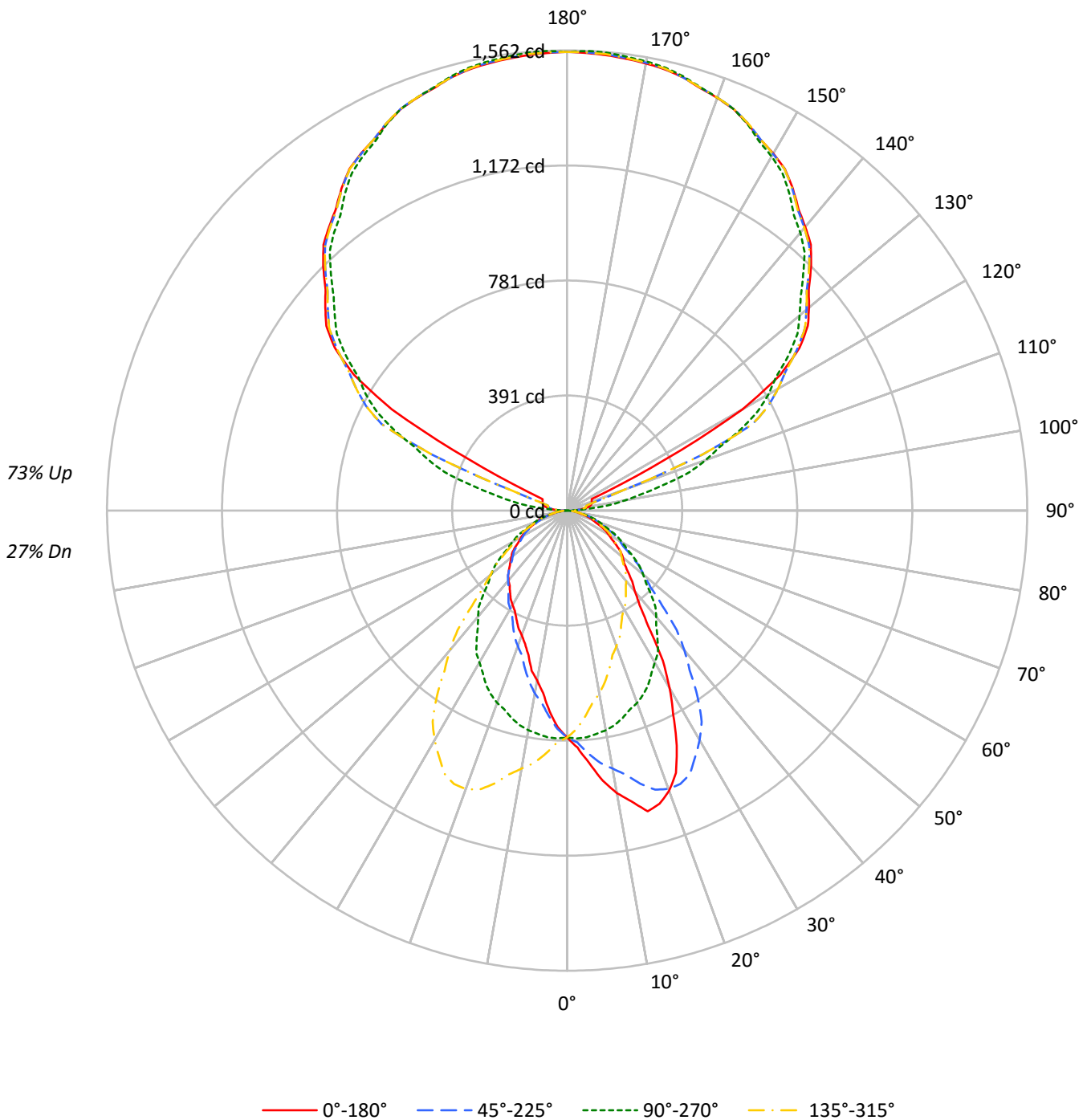
Input Watts (W): 60.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27				
1	93	89	85	82	83	80	77	74	62	60	58	46	45	44	31	31	30	23				
2	85	78	72	67	76	70	65	61	55	51	49	41	39	37	28	27	26	20				
3	77	69	62	56	69	62	56	51	48	44	41	36	34	31	25	23	22	17				
4	71	61	53	48	63	55	48	43	43	39	35	32	29	27	22	21	19	15				
5	65	54	46	41	58	49	42	37	39	34	30	29	26	24	20	18	17	13				
6	60	48	41	35	53	44	37	32	35	30	26	26	23	21	19	17	15	12				
7	55	44	36	31	49	39	33	28	31	27	23	24	21	18	17	15	13	11				
8	51	40	32	27	46	36	29	25	29	24	21	22	19	16	16	14	12	10				
9	48	36	29	24	43	33	26	22	26	22	18	20	17	15	14	12	11	9				
10	44	33	26	22	40	30	24	20	24	20	17	19	15	13	13	11	10	8				

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

	0°	90°	180°	270°
0°	12429	12429	12429	12429
5°	13935	12511	11086	12511
10°	15967	12408	9594	12408
15°	17665	12179	8476	12179
20°	17395	11936	7727	11936
25°	15684	11610	7252	11610
30°	12961	11091	6906	11091
35°	9447	10549	6660	10549
40°	7546	9908	6521	9908
45°	6594	9168	6336	9168
50°	6199	8450	6212	8450
55°	5714	7721	6046	7721
60°	5238	6946	5790	6946
65°	4768	6250	5540	6250
70°	4329	5570	5169	5570
75°	3843	4816	4579	4816
80°	3301	3989	3682	3989
85°	2964	2964	2186	2964



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.3	1.2
10°-20°	213.1	3.4
20°-30°	309.3	4.9
30°-40°	326.4	5.2
40°-50°	289.0	4.6
50°-60°	230.6	3.7
60°-70°	156.8	2.5
70°-80°	80.4	1.3
80°-90°	23.2	0.4
90°-100°	51.9	0.8
100°-110°	190.5	3.0
110°-120°	509.1	8.1
120°-130°	840.4	13.4
130°-140°	893.8	14.3
140°-150°	830.7	13.3
150°-160°	667.9	10.7
160°-170°	430.4	6.9
170°-180°	148.2	2.4
0°-30°	595.8	9.5
0°-40°	922.2	14.7
0°-60°	1441.8	23.0
0°-90°	1702.2	27.2
90°-120°	751.5	12.0
90°-150°	3316.5	52.9
90°-180°	4563.0	72.8
0°-180°	6265.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	770	770	770	770	770	
5°	860	772	684	772	860	86
15°	1057	729	507	729	1057	292
25°	880	652	407	652	880	398
35°	479	535	338	535	479	312
45°	289	402	278	402	289	227
55°	203	274	215	274	203	182
65°	125	164	145	164	125	124
75°	62	77	73	77	62	66
85°	16	16	12	16	16	18
90°	30	1	30	1	30	14
95°	48	73	48	73	48	45
105°	86	342	86	342	86	89
115°	92	648	92	648	92	231
125°	963	916	963	916	963	834
135°	1171	1134	1171	1134	1171	902
145°	1335	1315	1335	1315	1335	835
155°	1449	1448	1449	1448	1449	669
165°	1522	1526	1522	1526	1522	430
175°	1551	1560	1551	1560	1551	148
180°	1557	1557	1557	1557	1557	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8
2.5°	805.3	805.6	806.0	802.2	801.8	801.8	798.4	795.6	792.3	787.7	788.2
5°	859.8	863.0	864.2	860.6	855.3	854.7	849.7	841.4	833.7	827.5	823.1
7.5°	924.7	926.0	923.1	918.5	914.5	907.4	898.0	888.8	876.0	864.2	855.5
10°	973.9	975.7	970.7	963.8	958.2	950.0	936.4	922.4	905.6	889.3	876.3
12.5°	1011.3	1015.7	1009.2	1008.4	998.7	987.4	971.1	964.1	940.4	917.7	903.7
15°	1056.8	1056.5	1057.1	1051.5	1044.3	1042.6	1025.4	1006.8	973.4	960.0	936.9
17.5°	1043.6	1048.1	1050.2	1050.1	1050.0	1048.8	1043.3	1031.6	1014.8	993.2	966.6
20°	1012.4	1018.3	1019.2	1026.0	1029.8	1034.9	1037.0	1033.7	1023.3	1005.3	982.2
22.5°	964.1	965.7	968.5	979.1	987.5	1000.1	1006.6	1017.6	1013.6	1004.8	985.6
25°	880.4	877.5	887.8	893.2	912.4	932.5	947.0	963.0	977.2	985.8	980.2
27.5°	780.0	775.5	791.1	805.2	820.8	842.6	865.1	891.8	914.0	941.8	951.3
30°	695.2	697.9	712.7	727.8	751.5	782.2	807.6	836.9	868.6	899.7	921.2
32.5°	603.9	614.1	623.4	646.6	667.4	701.7	739.0	775.6	815.2	850.4	883.8
35°	479.3	491.1	504.1	521.0	550.2	584.3	620.7	670.1	724.0	772.1	811.8
37.5°	403.4	401.6	409.0	421.2	444.9	472.4	514.2	563.1	626.5	683.1	739.0
40°	358.0	356.8	362.1	373.4	391.4	411.5	448.2	491.1	550.0	619.2	685.8
42.5°	326.7	327.4	330.4	338.3	350.7	367.3	394.7	431.3	485.1	550.3	621.9
45°	288.8	290.8	294.1	297.9	305.0	318.6	334.0	360.0	402.7	457.1	527.5
47.5°	261.4	261.5	264.7	268.2	272.4	280.0	292.6	309.0	339.0	383.3	443.9
50°	246.8	244.6	247.0	249.7	254.1	259.4	267.8	283.1	303.2	339.1	389.6
52.5°	228.8	228.8	230.9	232.0	235.9	241.2	248.8	259.4	277.7	305.7	347.3
55°	203.0	204.5	205.7	207.4	211.0	214.8	220.7	227.8	242.0	263.0	293.7
57.5°	178.7	179.2	180.4	183.7	186.0	189.5	195.1	201.6	210.8	226.4	249.5
60°	162.2	162.2	164.5	166.0	168.9	172.5	176.9	183.2	191.4	204.1	222.8
62.5°	146.9	146.7	147.7	150.1	152.3	155.7	160.1	165.4	173.2	184.5	199.8
65°	124.8	124.3	126.0	126.6	129.0	132.2	135.8	141.4	147.7	155.9	169.5
67.5°	103.5	104.3	105.2	106.3	107.7	111.1	113.4	117.4	122.6	129.5	138.8
70°	91.7	91.7	91.7	92.6	94.3	96.2	98.5	101.8	106.8	112.7	121.0
72.5°	78.4	79.4	80.3	79.9	82.1	83.1	86.0	87.8	92.6	96.4	103.7
75°	61.6	61.6	61.6	63.0	63.9	64.8	66.5	68.4	70.7	75.4	79.3
77.5°	45.9	45.8	46.1	46.4	47.4	48.5	49.0	50.6	52.8	55.0	58.2
80°	35.5	36.1	36.4	37.0	37.0	37.5	37.9	39.9	41.4	42.9	45.0
82.5°	27.5	27.6	27.6	27.7	28.0	28.4	29.1	29.8	30.3	31.5	33.1
85°	16.0	15.7	15.7	16.2	16.0	16.0	16.6	17.2	17.2	17.4	18.4
87.5°	12.2	12.1	12.3	12.0	11.8	11.9	11.6	11.2	11.2	11.2	10.9
90°	30.4	29.9	29.4	28.9	28.4	27.6	26.3	25.0	23.8	22.5	20.5
92.5°	30.4	30.1	29.8	29.5	29.2	28.8	28.1	27.4	26.8	26.1	25.1
95°	48.5	48.7	49.0	49.2	49.4	49.0	47.7	46.4	45.2	44.0	42.2
97.5°	64.6	64.4	64.1	63.8	63.5	62.8	61.8	60.8	59.8	58.8	54.7
100°	75.5	75.0	74.5	74.0	73.5	72.2	70.3	68.2	66.2	64.2	60.0
102.5°	80.9	80.2	79.5	78.8	78.1	76.4	73.8	71.2	68.6	66.0	101.6
105°	85.6	84.6	83.7	82.6	81.6	79.8	77.0	74.2	71.5	68.8	137.0
107.5°	88.1	87.1	86.1	85.1	84.1	85.0	87.8	90.6	93.4	96.3	178.2
110°	89.0	88.0	87.0	86.0	85.0	97.0	122.1	147.1	172.1	197.2	269.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	89.9	89.1	88.3	87.5	86.7	132.0	223.3	314.7	406.0	497.3	515.2
115°	92.4	110.4	128.4	146.5	164.5	231.5	347.4	463.3	579.2	695.1	688.9
117.5°	377.2	436.4	495.7	554.9	614.2	657.8	685.9	713.9	742.0	770.0	765.6
120°	687.3	721.0	754.9	788.7	822.4	837.9	834.9	831.9	828.9	825.9	821.3
122.5°	857.6	864.2	870.8	877.3	883.8	886.2	884.5	882.6	880.8	879.0	874.1
125°	963.3	962.6	961.8	961.1	960.3	959.0	957.3	955.5	953.8	952.0	947.3
127.5°	1030.0	1029.8	1029.7	1029.5	1029.4	1028.0	1025.5	1022.9	1020.4	1017.9	1014.3
130°	1071.4	1071.7	1072.0	1072.2	1072.5	1071.2	1068.5	1065.7	1063.0	1060.2	1057.4
132.5°	1112.0	1112.3	1112.5	1112.8	1113.0	1112.0	1109.6	1107.2	1104.9	1102.6	1099.8
135°	1170.6	1171.1	1171.6	1172.1	1172.6	1171.6	1169.1	1166.6	1164.1	1161.6	1159.4
137.5°	1224.0	1224.9	1225.7	1226.5	1227.4	1226.6	1224.2	1221.7	1219.2	1216.8	1214.3
140°	1257.4	1258.6	1259.9	1261.2	1262.3	1261.9	1259.6	1257.4	1255.1	1252.8	1250.1
142.5°	1289.8	1291.1	1292.3	1293.6	1294.8	1294.4	1292.4	1290.3	1288.2	1286.2	1283.0
145°	1335.1	1336.3	1337.6	1338.9	1340.1	1339.9	1338.1	1336.3	1334.6	1332.8	1328.6
147.5°	1375.0	1376.0	1377.1	1378.2	1379.2	1379.1	1377.8	1376.5	1375.1	1373.9	1369.7
150°	1399.3	1400.6	1401.8	1403.1	1404.3	1404.2	1402.7	1401.2	1399.7	1398.2	1394.2
152.5°	1420.1	1421.7	1423.4	1425.0	1426.6	1426.7	1425.2	1423.7	1422.2	1420.7	1416.9
155°	1448.9	1450.9	1452.9	1454.9	1456.9	1457.1	1455.6	1454.1	1452.6	1451.1	1448.2
157.5°	1475.3	1477.2	1479.2	1481.1	1483.0	1483.2	1481.5	1479.8	1478.1	1476.4	1474.3
160°	1490.6	1492.3	1494.1	1495.9	1497.6	1497.7	1496.2	1494.7	1493.2	1491.7	1490.2
162.5°	1503.2	1505.4	1507.5	1509.7	1511.8	1512.0	1510.4	1508.6	1507.0	1505.2	1504.0
165°	1522.1	1523.9	1525.7	1527.4	1529.1	1529.1	1527.4	1525.7	1523.9	1522.1	1521.4
167.5°	1534.1	1536.4	1538.6	1540.9	1543.1	1543.3	1541.6	1539.8	1538.1	1536.4	1535.6
170°	1541.3	1543.6	1545.8	1548.1	1550.3	1550.5	1548.8	1547.1	1545.3	1543.6	1543.0
172.5°	1546.7	1549.0	1551.2	1553.5	1555.7	1555.9	1554.2	1552.4	1550.7	1549.0	1548.5
175°	1551.4	1553.9	1556.4	1558.9	1561.5	1561.8	1560.0	1558.3	1556.6	1554.8	1554.3
177.5°	1554.3	1556.2	1558.0	1559.7	1561.5	1561.8	1560.4	1558.9	1557.6	1556.2	1555.9
180°	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8
2.5°	789.9	788.0	786.8	782.6	778.8	775.0	773.8	774.3	769.1	764.1	762.0
5°	820.7	814.8	809.1	801.1	791.7	781.3	776.0	771.9	761.5	750.3	743.8
7.5°	848.3	839.8	828.9	814.0	800.2	783.9	773.5	764.4	749.2	733.3	723.7
10°	865.1	853.5	839.6	821.3	804.4	784.6	770.7	756.8	739.0	720.1	708.3
12.5°	879.5	864.0	850.2	826.7	806.8	782.0	765.5	745.9	727.2	704.7	693.1
15°	913.9	885.2	859.1	832.5	807.9	773.3	755.0	728.6	704.1	676.3	663.0
17.5°	940.4	908.2	867.2	833.4	804.7	766.4	739.4	707.9	678.8	647.1	629.0
20°	955.6	918.6	874.5	834.3	799.9	756.2	726.9	694.7	660.6	624.8	605.3
22.5°	964.6	925.7	882.1	830.8	790.5	747.9	711.1	675.7	641.2	602.6	582.1
25°	967.4	931.9	885.7	827.8	778.6	730.5	686.0	651.7	610.1	573.9	544.1
27.5°	953.3	927.9	883.5	822.2	765.0	708.6	659.2	620.3	576.2	537.1	507.0
30°	936.0	921.2	878.1	816.5	754.1	693.5	639.1	594.9	551.2	511.5	480.8
32.5°	909.3	906.1	868.2	808.5	742.5	674.3	618.0	573.4	524.9	485.9	456.6
35°	856.7	871.0	847.0	790.5	720.6	647.1	586.1	535.2	484.9	447.6	420.1
37.5°	786.4	821.7	815.4	764.1	691.2	617.3	550.0	496.9	448.9	411.3	384.3
40°	737.8	782.8	789.3	744.0	670.4	594.4	523.1	470.1	423.3	389.0	361.8
42.5°	685.8	738.3	756.2	719.9	647.7	570.2	498.9	444.1	397.8	364.4	340.3
45°	598.5	668.0	700.3	679.5	609.7	530.4	457.1	401.5	359.5	328.1	309.4
47.5°	516.9	592.9	636.3	628.9	567.5	489.0	416.5	363.1	322.3	297.2	280.5
50°	459.1	537.3	589.6	592.0	537.3	459.5	386.7	336.4	298.8	275.4	261.8
52.5°	409.0	483.5	540.7	553.2	503.4	428.6	359.9	309.9	276.8	255.3	243.1
55°	343.5	406.5	469.8	492.9	453.0	381.9	318.3	274.3	243.2	228.4	217.8
57.5°	285.6	338.1	396.6	422.1	397.4	336.7	277.0	238.8	213.6	200.6	192.4
60°	255.0	296.4	348.5	379.0	357.7	303.6	251.4	215.1	194.4	182.8	175.2
62.5°	226.6	263.3	307.3	335.2	323.6	272.5	225.9	193.8	175.9	165.1	159.5
65°	187.0	215.9	250.0	275.8	268.1	229.3	191.2	163.6	149.4	140.9	136.4
67.5°	153.9	174.9	198.5	221.0	214.8	187.4	156.8	135.3	124.7	117.3	114.7
70°	133.2	149.1	170.1	188.1	183.2	160.7	136.4	118.0	108.8	102.7	100.0
72.5°	113.3	126.4	142.4	157.2	153.8	135.1	114.9	101.0	94.0	88.2	86.0
75°	85.5	95.5	105.4	115.1	114.2	99.7	87.9	77.2	71.6	67.2	66.3
77.5°	63.1	68.8	75.4	81.2	79.6	71.3	62.0	55.9	51.8	48.8	48.3
80°	48.2	51.5	56.2	60.4	58.3	54.7	47.4	42.9	39.9	37.0	35.8
82.5°	34.9	38.3	41.0	43.3	41.7	38.4	33.8	30.8	29.1	27.0	26.5
85°	18.4	20.1	21.3	21.9	21.3	19.3	17.2	16.0	14.5	13.6	13.3
87.5°	10.8	10.4	10.0	10.0	8.7	8.2	6.7	5.5	5.8	6.1	6.1
90°	18.5	16.6	14.5	12.1	9.4	6.7	3.9	1.1	3.9	6.7	9.4
92.5°	24.2	23.1	22.1	21.8	22.0	22.3	22.5	22.7	22.5	22.3	22.0
95°	40.4	38.7	36.9	40.2	48.5	56.7	65.0	73.2	65.0	56.7	48.5
97.5°	50.7	46.7	42.6	52.2	75.5	98.8	122.1	145.4	122.1	98.8	75.5
100°	55.7	51.4	47.2	62.2	96.5	130.8	165.1	199.4	165.1	130.8	96.5
102.5°	137.2	172.9	208.4	229.9	237.1	244.4	251.7	258.9	251.7	244.4	237.1
105°	205.4	273.8	342.1	372.6	365.0	357.5	350.0	342.5	350.0	357.5	365.0
107.5°	260.2	342.1	424.1	462.1	456.0	450.0	443.9	437.8	443.9	450.0	456.0
110°	341.9	414.2	486.6	520.1	514.9	509.6	504.4	499.2	504.4	509.6	514.9





TEST NUMBER: P331519-927

CATALOG NUMBER: S122DIW-S485D1440U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	533.1	551.0	568.8	575.4	570.8	566.1	561.4	556.8	561.4	566.1	570.8
115°	682.6	676.4	670.1	664.9	660.6	656.3	652.1	647.8	652.1	656.3	660.6
117.5°	761.4	757.0	752.7	748.2	743.5	738.7	734.0	729.2	734.0	738.7	743.5
120°	816.8	812.3	807.8	803.7	799.9	796.1	792.4	788.7	792.4	796.1	799.9
122.5°	869.2	864.3	859.4	855.0	851.0	847.1	843.1	839.2	843.1	847.1	851.0
125°	942.5	937.8	933.0	929.0	925.7	922.5	919.2	916.0	919.2	922.5	925.7
127.5°	1010.7	1007.2	1003.6	1000.1	996.4	992.8	989.2	985.6	989.2	992.8	996.4
130°	1054.7	1051.9	1049.2	1045.8	1041.8	1037.8	1033.8	1029.8	1033.8	1037.8	1041.8
132.5°	1097.0	1094.3	1091.5	1088.5	1085.1	1081.6	1078.2	1074.8	1078.2	1081.6	1085.1
135°	1157.1	1154.8	1152.5	1149.5	1145.4	1141.5	1137.4	1133.5	1137.4	1141.5	1145.4
137.5°	1211.7	1209.1	1206.6	1203.9	1201.1	1198.3	1195.5	1192.7	1195.5	1198.3	1201.1
140°	1247.4	1244.6	1241.8	1239.4	1237.5	1235.5	1233.4	1231.4	1233.4	1235.5	1237.5
142.5°	1279.9	1276.8	1273.6	1271.1	1269.3	1267.5	1265.7	1263.9	1265.7	1267.5	1269.3
145°	1324.4	1320.1	1315.8	1313.8	1314.1	1314.3	1314.5	1314.9	1314.5	1314.3	1314.1
147.5°	1365.5	1361.2	1357.0	1355.4	1356.4	1357.3	1358.3	1359.2	1358.3	1357.3	1356.4
150°	1390.2	1386.2	1382.2	1381.0	1382.8	1384.6	1386.3	1388.1	1386.3	1384.6	1382.8
152.5°	1413.1	1409.3	1405.5	1404.6	1406.5	1408.5	1410.5	1412.4	1410.5	1408.5	1406.5
155°	1445.2	1442.2	1439.2	1438.8	1441.0	1443.3	1445.5	1447.8	1445.5	1443.3	1441.0
157.5°	1472.2	1470.1	1468.0	1467.9	1469.8	1471.7	1473.6	1475.5	1473.6	1471.7	1469.8
160°	1488.7	1487.2	1485.7	1485.7	1487.2	1488.7	1490.2	1491.7	1490.2	1488.7	1487.2
162.5°	1502.6	1501.3	1500.0	1500.2	1501.7	1503.2	1504.7	1506.1	1504.7	1503.2	1501.7
165°	1520.6	1519.9	1519.2	1519.5	1521.0	1522.5	1524.0	1525.5	1524.0	1522.5	1521.0
167.5°	1534.9	1534.2	1533.5	1533.9	1535.4	1536.9	1538.4	1539.9	1538.4	1536.9	1535.4
170°	1542.5	1542.1	1541.5	1542.1	1543.6	1545.1	1546.6	1548.1	1546.6	1545.1	1543.6
172.5°	1547.9	1547.4	1547.0	1547.4	1549.0	1550.5	1552.0	1553.5	1552.0	1550.5	1549.0
175°	1553.8	1553.3	1552.8	1553.5	1555.2	1557.0	1558.7	1560.4	1558.7	1557.0	1555.2
177.5°	1555.8	1555.5	1555.4	1555.9	1557.4	1558.8	1560.2	1561.5	1560.2	1558.8	1557.4
180°	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0



TEST NUMBER: P331519-927

CATALOG NUMBER: S122DIW-S485D1440U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8
2.5°	759.6	758.2	753.2	750.6	746.4	742.4	739.7	740.9	741.9	741.4	740.7
5°	737.8	732.2	723.7	716.2	710.9	701.2	697.0	695.0	693.2	691.1	689.0
7.5°	711.9	703.1	690.8	680.2	670.3	658.1	651.3	647.1	642.8	638.1	634.0
10°	693.5	681.0	668.0	653.2	641.4	630.4	620.7	614.2	608.2	602.6	598.5
12.5°	674.1	659.7	643.6	623.4	610.4	594.7	593.3	581.8	572.5	569.0	564.2
15°	643.2	623.1	602.6	578.7	568.3	554.1	545.3	536.4	528.4	522.8	521.3
17.5°	608.1	582.0	561.7	544.5	527.6	513.0	504.9	497.7	491.2	483.6	482.7
20°	581.3	558.9	536.7	521.6	504.1	489.3	479.3	472.1	466.5	462.1	458.3
22.5°	556.0	531.4	511.1	494.6	477.4	465.4	457.5	450.7	446.0	441.1	437.4
25°	515.4	496.1	474.0	455.3	441.1	433.4	426.9	421.0	418.0	414.8	410.7
27.5°	479.8	458.4	437.7	423.3	410.7	403.9	399.3	395.3	392.5	390.6	388.2
30°	454.7	433.1	416.8	402.7	392.3	385.5	382.5	380.2	376.9	375.7	374.5
32.5°	430.6	411.1	397.2	384.9	375.0	370.6	367.9	365.8	363.2	362.0	359.7
35°	396.4	380.2	366.5	359.7	351.7	347.9	345.9	342.9	340.6	339.4	339.1
37.5°	364.3	350.1	341.2	332.5	329.1	326.7	323.9	321.9	321.2	321.0	320.7
40°	343.5	331.9	323.9	316.9	315.4	311.8	309.4	307.7	307.7	308.0	307.7
42.5°	324.6	314.2	307.1	301.0	299.3	297.1	294.8	294.7	295.2	296.1	295.2
45°	295.9	288.4	283.4	280.4	277.2	275.1	274.8	275.8	276.0	276.3	277.2
47.5°	269.4	264.5	260.0	256.7	255.3	254.9	254.6	256.1	257.5	258.1	259.4
50°	253.8	248.2	244.4	242.3	241.1	240.5	241.1	242.9	244.1	245.6	246.4
52.5°	236.3	232.3	229.7	228.1	227.6	228.0	228.1	230.1	232.0	232.5	233.0
55°	212.1	209.1	208.6	205.9	207.1	206.8	208.3	209.5	211.2	213.0	213.3
57.5°	188.0	185.6	184.0	184.3	184.6	185.9	187.1	189.3	191.2	193.0	193.2
60°	171.9	170.7	169.8	169.8	170.4	172.2	173.6	175.7	176.9	178.1	179.0
62.5°	157.2	156.1	155.1	155.6	157.2	158.2	159.9	161.1	162.2	163.4	163.8
65°	134.0	133.4	134.4	134.9	135.2	136.7	138.8	139.7	140.9	141.4	143.5
67.5°	112.6	112.8	112.6	113.5	115.2	115.6	117.5	119.6	119.9	121.0	122.3
70°	98.2	98.8	99.4	100.0	101.5	102.0	103.5	104.4	105.6	106.5	107.4
72.5°	85.0	85.1	85.7	85.6	86.8	88.1	89.4	90.2	91.4	92.5	93.4
75°	65.4	65.4	66.0	66.3	67.7	69.2	68.9	69.6	70.7	71.9	72.5
77.5°	47.8	47.1	47.8	48.0	48.5	49.7	50.0	50.9	52.2	51.8	52.4
80°	36.4	35.5	36.4	36.7	36.7	38.2	38.2	38.7	39.6	38.7	39.6
82.5°	26.0	25.6	26.2	26.3	26.8	26.8	27.3	27.4	28.3	27.9	28.3
85°	13.0	12.8	13.0	12.8	13.0	13.3	13.3	13.0	13.0	13.6	12.8
87.5°	6.4	6.7	6.9	7.3	7.4	7.6	7.6	7.8	8.1	7.8	8.1
90°	12.1	14.5	16.6	18.5	20.5	22.5	23.8	25.0	26.3	27.6	28.4
92.5°	21.8	22.1	23.1	24.2	25.1	26.1	26.8	27.4	28.1	28.8	29.2
95°	40.2	36.9	38.7	40.4	42.2	44.0	45.2	46.4	47.7	49.0	49.4
97.5°	52.2	42.6	46.7	50.7	54.7	58.8	59.8	60.8	61.8	62.8	63.5
100°	62.2	47.2	51.4	55.7	60.0	64.2	66.2	68.2	70.3	72.2	73.5
102.5°	229.9	208.4	172.9	137.2	101.6	66.0	68.6	71.2	73.8	76.4	78.1
105°	372.6	342.1	273.8	205.4	137.0	68.8	71.5	74.2	77.0	79.8	81.6
107.5°	462.1	424.1	342.1	260.2	178.2	96.3	93.4	90.6	87.8	85.0	84.1
110°	520.1	486.6	414.2	341.9	269.5	197.2	172.1	147.1	122.1	97.0	85.0



TEST NUMBER: P331519-927

CATALOG NUMBER: S122DIW-S485D1440U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	575.4	568.8	551.0	533.1	515.2	497.3	406.0	314.7	223.3	132.0	86.7
115°	664.9	670.1	676.4	682.6	688.9	695.1	579.2	463.3	347.4	231.5	164.5
117.5°	748.2	752.7	757.0	761.4	765.6	770.0	742.0	713.9	685.9	657.8	614.2
120°	803.7	807.8	812.3	816.8	821.3	825.9	828.9	831.9	834.9	837.9	822.4
122.5°	855.0	859.4	864.3	869.2	874.1	879.0	880.8	882.6	884.5	886.2	883.8
125°	929.0	933.0	937.8	942.5	947.3	952.0	953.8	955.5	957.3	959.0	960.3
127.5°	1000.1	1003.6	1007.2	1010.7	1014.3	1017.9	1020.4	1022.9	1025.5	1028.0	1029.4
130°	1045.8	1049.2	1051.9	1054.7	1057.4	1060.2	1063.0	1065.7	1068.5	1071.2	1072.5
132.5°	1088.5	1091.5	1094.3	1097.0	1099.8	1102.6	1104.9	1107.2	1109.6	1112.0	1113.0
135°	1149.5	1152.5	1154.8	1157.1	1159.4	1161.6	1164.1	1166.6	1169.1	1171.6	1172.6
137.5°	1203.9	1206.6	1209.1	1211.7	1214.3	1216.8	1219.2	1221.7	1224.2	1226.6	1227.4
140°	1239.4	1241.8	1244.6	1247.4	1250.1	1252.8	1255.1	1257.4	1259.6	1261.9	1262.3
142.5°	1271.1	1273.6	1276.8	1279.9	1283.0	1286.2	1288.2	1290.3	1292.4	1294.4	1294.8
145°	1313.8	1315.8	1320.1	1324.4	1328.6	1332.8	1334.6	1336.3	1338.1	1339.9	1340.1
147.5°	1355.4	1357.0	1361.2	1365.5	1369.7	1373.9	1375.1	1376.5	1377.8	1379.1	1379.2
150°	1381.0	1382.2	1386.2	1390.2	1394.2	1398.2	1399.7	1401.2	1402.7	1404.2	1404.3
152.5°	1404.6	1405.5	1409.3	1413.1	1416.9	1420.7	1422.2	1423.7	1425.2	1426.7	1426.6
155°	1438.8	1439.2	1442.2	1445.2	1448.2	1451.1	1452.6	1454.1	1455.6	1457.1	1456.9
157.5°	1467.9	1468.0	1470.1	1472.2	1474.3	1476.4	1478.1	1479.8	1481.5	1483.2	1483.0
160°	1485.7	1485.7	1487.2	1488.7	1490.2	1491.7	1493.2	1494.7	1496.2	1497.7	1497.6
162.5°	1500.2	1500.0	1501.3	1502.6	1504.0	1505.2	1507.0	1508.6	1510.4	1512.0	1511.8
165°	1519.5	1519.2	1519.9	1520.6	1521.4	1522.1	1523.9	1525.7	1527.4	1529.1	1529.1
167.5°	1533.9	1533.5	1534.2	1534.9	1535.6	1536.4	1538.1	1539.8	1541.6	1543.3	1543.1
170°	1542.1	1541.5	1542.1	1542.5	1543.0	1543.6	1545.3	1547.1	1548.8	1550.5	1550.3
172.5°	1547.4	1547.0	1547.4	1547.9	1548.5	1549.0	1550.7	1552.4	1554.2	1555.9	1555.7
175°	1553.5	1552.8	1553.3	1553.8	1554.3	1554.8	1556.6	1558.3	1560.0	1561.8	1561.5
177.5°	1555.9	1555.4	1555.5	1555.8	1555.9	1556.2	1557.6	1558.9	1560.4	1561.8	1561.5
180°	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0



TEST NUMBER: P331519-927

CATALOG NUMBER: S122DIW-S485D1440U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8
2.5°	738.3	737.8	737.8	735.7	737.8	737.8	738.3	740.7	741.4	741.9	740.9
5°	684.9	684.0	682.5	684.0	682.5	684.0	684.9	689.0	691.1	693.2	695.0
7.5°	632.1	628.5	628.0	624.5	628.0	628.5	632.1	634.0	638.1	642.8	647.1
10°	593.5	591.1	590.8	585.2	590.8	591.1	593.5	598.5	602.6	608.2	614.2
12.5°	564.1	558.4	559.6	556.3	559.6	558.4	564.1	564.2	569.0	572.5	581.8
15°	513.3	513.3	512.1	507.1	512.1	513.3	513.3	521.3	522.8	528.4	536.4
17.5°	476.8	476.2	473.3	474.8	473.3	476.2	476.8	482.7	483.6	491.2	497.7
20°	455.0	453.2	449.7	449.7	449.7	453.2	455.0	458.3	462.1	466.5	472.1
22.5°	434.4	434.3	430.6	431.7	430.6	434.3	434.4	437.4	441.1	446.0	450.7
25°	410.4	408.0	406.2	407.1	406.2	408.0	410.4	410.7	414.8	418.0	421.0
27.5°	387.5	386.2	386.1	383.7	386.1	386.2	387.5	388.2	390.6	392.5	395.3
30°	374.2	371.3	371.9	370.4	371.9	371.3	374.2	374.5	375.7	376.9	380.2
32.5°	359.1	358.1	357.4	356.2	357.4	358.1	359.1	359.7	362.0	363.2	365.8
35°	338.4	338.7	337.2	337.9	337.2	338.7	338.4	339.1	339.4	340.6	342.9
37.5°	320.4	321.4	320.7	320.8	320.7	321.4	320.4	320.7	321.0	321.2	321.9
40°	308.6	308.6	308.6	309.4	308.6	308.6	308.6	307.7	308.0	307.7	307.7
42.5°	297.2	296.8	296.3	296.2	296.3	296.8	297.2	295.2	296.1	295.2	294.7
45°	277.8	278.7	279.0	277.5	279.0	278.7	277.8	277.2	276.3	276.0	275.8
47.5°	260.2	260.3	260.2	261.5	260.2	260.3	260.2	259.4	258.1	257.5	256.1
50°	248.0	247.3	248.0	247.3	248.0	247.3	248.0	246.4	245.6	244.1	242.9
52.5°	234.9	235.0	234.6	234.6	234.6	235.0	234.9	233.0	232.5	232.0	230.1
55°	214.5	215.1	214.8	214.8	214.8	215.1	214.5	213.3	213.0	211.2	209.5
57.5°	193.4	193.9	194.3	193.0	194.3	193.9	193.4	193.2	193.0	191.2	189.3
60°	178.7	180.1	179.9	179.3	179.9	180.1	178.7	179.0	178.1	176.9	175.7
62.5°	165.2	165.7	165.6	165.6	165.6	165.7	165.2	163.8	163.4	162.2	161.1
65°	144.3	145.0	144.1	145.0	144.1	145.0	144.3	143.5	141.4	140.9	139.7
67.5°	121.9	122.2	122.8	123.2	122.8	122.2	121.9	122.3	121.0	119.9	119.6
70°	108.0	107.7	108.6	109.5	108.6	107.7	108.0	107.4	106.5	105.6	104.4
72.5°	93.3	94.0	93.6	94.3	93.6	94.0	93.3	93.4	92.5	91.4	90.2
75°	71.9	72.8	72.5	73.4	72.5	72.8	71.9	72.5	71.9	70.7	69.6
77.5°	52.0	52.0	52.0	52.4	52.0	52.0	52.0	52.4	51.8	52.2	50.9
80°	39.6	39.1	38.4	39.6	38.4	39.1	39.6	39.6	38.7	39.6	38.7
82.5°	27.6	28.0	27.3	27.3	27.3	28.0	27.6	28.3	27.9	28.3	27.4
85°	12.8	12.4	11.8	11.8	11.8	12.4	12.8	12.8	13.6	13.0	13.0
87.5°	8.2	8.0	8.1	8.0	8.1	8.0	8.2	8.1	7.8	8.1	7.8
90°	28.9	29.4	29.9	30.4	29.9	29.4	28.9	28.4	27.6	26.3	25.0
92.5°	29.5	29.8	30.1	30.4	30.1	29.8	29.5	29.2	28.8	28.1	27.4
95°	49.2	49.0	48.7	48.5	48.7	49.0	49.2	49.4	49.0	47.7	46.4
97.5°	63.8	64.1	64.4	64.6	64.4	64.1	63.8	63.5	62.8	61.8	60.8
100°	74.0	74.5	75.0	75.5	75.0	74.5	74.0	73.5	72.2	70.3	68.2
102.5°	78.8	79.5	80.2	80.9	80.2	79.5	78.8	78.1	76.4	73.8	71.2
105°	82.6	83.7	84.6	85.6	84.6	83.7	82.6	81.6	79.8	77.0	74.2
107.5°	85.1	86.1	87.1	88.1	87.1	86.1	85.1	84.1	85.0	87.8	90.6
110°	86.0	87.0	88.0	89.0	88.0	87.0	86.0	85.0	97.0	122.1	147.1



TEST NUMBER: P331519-927

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	87.5	88.3	89.1	89.9	89.1	88.3	87.5	86.7	132.0	223.3	314.7
115°	146.5	128.4	110.4	92.4	110.4	128.4	146.5	164.5	231.5	347.4	463.3
117.5°	554.9	495.7	436.4	377.2	436.4	495.7	554.9	614.2	657.8	685.9	713.9
120°	788.7	754.9	721.0	687.3	721.0	754.9	788.7	822.4	837.9	834.9	831.9
122.5°	877.3	870.8	864.2	857.6	864.2	870.8	877.3	883.8	886.2	884.5	882.6
125°	961.1	961.8	962.6	963.3	962.6	961.8	961.1	960.3	959.0	957.3	955.5
127.5°	1029.5	1029.7	1029.8	1030.0	1029.8	1029.7	1029.5	1029.4	1028.0	1025.5	1022.9
130°	1072.2	1072.0	1071.7	1071.4	1071.7	1072.0	1072.2	1072.5	1071.2	1068.5	1065.7
132.5°	1112.8	1112.5	1112.3	1112.0	1112.3	1112.5	1112.8	1113.0	1112.0	1109.6	1107.2
135°	1172.1	1171.6	1171.1	1170.6	1171.1	1171.6	1172.1	1172.6	1171.6	1169.1	1166.6
137.5°	1226.5	1225.7	1224.9	1224.0	1224.9	1225.7	1226.5	1227.4	1226.6	1224.2	1221.7
140°	1261.2	1259.9	1258.6	1257.4	1258.6	1259.9	1261.2	1262.3	1261.9	1259.6	1257.4
142.5°	1293.6	1292.3	1291.1	1289.8	1291.1	1292.3	1293.6	1294.8	1294.4	1292.4	1290.3
145°	1338.9	1337.6	1336.3	1335.1	1336.3	1337.6	1338.9	1340.1	1339.9	1338.1	1336.3
147.5°	1378.2	1377.1	1376.0	1375.0	1376.0	1377.1	1378.2	1379.2	1379.1	1377.8	1376.5
150°	1403.1	1401.8	1400.6	1399.3	1400.6	1401.8	1403.1	1404.3	1404.2	1402.7	1401.2
152.5°	1425.0	1423.4	1421.7	1420.1	1421.7	1423.4	1425.0	1426.6	1426.7	1425.2	1423.7
155°	1454.9	1452.9	1450.9	1448.9	1450.9	1452.9	1454.9	1456.9	1457.1	1455.6	1454.1
157.5°	1481.1	1479.2	1477.2	1475.3	1477.2	1479.2	1481.1	1483.0	1483.2	1481.5	1479.8
160°	1495.9	1494.1	1492.3	1490.6	1492.3	1494.1	1495.9	1497.6	1497.7	1496.2	1494.7
162.5°	1509.7	1507.5	1505.4	1503.2	1505.4	1507.5	1509.7	1511.8	1512.0	1510.4	1508.6
165°	1527.4	1525.7	1523.9	1522.1	1523.9	1525.7	1527.4	1529.1	1529.1	1527.4	1525.7
167.5°	1540.9	1538.6	1536.4	1534.1	1536.4	1538.6	1540.9	1543.1	1543.3	1541.6	1539.8
170°	1548.1	1545.8	1543.6	1541.3	1543.6	1545.8	1548.1	1550.3	1550.5	1548.8	1547.1
172.5°	1553.5	1551.2	1549.0	1546.7	1549.0	1551.2	1553.5	1555.7	1555.9	1554.2	1552.4
175°	1558.9	1556.4	1553.9	1551.4	1553.9	1556.4	1558.9	1561.5	1561.8	1560.0	1558.3
177.5°	1559.7	1558.0	1556.2	1554.3	1556.2	1558.0	1559.7	1561.5	1561.8	1560.4	1558.9
180°	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8
2.5°	739.7	742.4	746.4	750.6	753.2	758.2	759.6	762.0	764.1	769.1	774.3
5°	697.0	701.2	710.9	716.2	723.7	732.2	737.8	743.8	750.3	761.5	771.9
7.5°	651.3	658.1	670.3	680.2	690.8	703.1	711.9	723.7	733.3	749.2	764.4
10°	620.7	630.4	641.4	653.2	668.0	681.0	693.5	708.3	720.1	739.0	756.8
12.5°	593.3	594.7	610.4	623.4	643.6	659.7	674.1	693.1	704.7	727.2	745.9
15°	545.3	554.1	568.3	578.7	602.6	623.1	643.2	663.0	676.3	704.1	728.6
17.5°	504.9	513.0	527.6	544.5	561.7	582.0	608.1	629.0	647.1	678.8	707.9
20°	479.3	489.3	504.1	521.6	536.7	558.9	581.3	605.3	624.8	660.6	694.7
22.5°	457.5	465.4	477.4	494.6	511.1	531.4	556.0	582.1	602.6	641.2	675.7
25°	426.9	433.4	441.1	455.3	474.0	496.1	515.4	544.1	573.9	610.1	651.7
27.5°	399.3	403.9	410.7	423.3	437.7	458.4	479.8	507.0	537.1	576.2	620.3
30°	382.5	385.5	392.3	402.7	416.8	433.1	454.7	480.8	511.5	551.2	594.9
32.5°	367.9	370.6	375.0	384.9	397.2	411.1	430.6	456.6	485.9	524.9	573.4
35°	345.9	347.9	351.7	359.7	366.5	380.2	396.4	420.1	447.6	484.9	535.2
37.5°	323.9	326.7	329.1	332.5	341.2	350.1	364.3	384.3	411.3	448.9	496.9
40°	309.4	311.8	315.4	316.9	323.9	331.9	343.5	361.8	389.0	423.3	470.1
42.5°	294.8	297.1	299.3	301.0	307.1	314.2	324.6	340.3	364.4	397.8	444.1
45°	274.8	275.1	277.2	280.4	283.4	288.4	295.9	309.4	328.1	359.5	401.5
47.5°	254.6	254.9	255.3	256.7	260.0	264.5	269.4	280.5	297.2	322.3	363.1
50°	241.1	240.5	241.1	242.3	244.4	248.2	253.8	261.8	275.4	298.8	336.4
52.5°	228.1	228.0	227.6	228.1	229.7	232.3	236.3	243.1	255.3	276.8	309.9
55°	208.3	206.8	207.1	205.9	208.6	209.1	212.1	217.8	228.4	243.2	274.3
57.5°	187.1	185.9	184.6	184.3	184.0	185.6	188.0	192.4	200.6	213.6	238.8
60°	173.6	172.2	170.4	169.8	169.8	170.7	171.9	175.2	182.8	194.4	215.1
62.5°	159.9	158.2	157.2	155.6	155.1	156.1	157.2	159.5	165.1	175.9	193.8
65°	138.8	136.7	135.2	134.9	134.4	133.4	134.0	136.4	140.9	149.4	163.6
67.5°	117.5	115.6	115.2	113.5	112.6	112.8	112.6	114.7	117.3	124.7	135.3
70°	103.5	102.0	101.5	100.0	99.4	98.8	98.2	100.0	102.7	108.8	118.0
72.5°	89.4	88.1	86.8	85.6	85.7	85.1	85.0	86.0	88.2	94.0	101.0
75°	68.9	69.2	67.7	66.3	66.0	65.4	65.4	66.3	67.2	71.6	77.2
77.5°	50.0	49.7	48.5	48.0	47.8	47.1	47.8	48.3	48.8	51.8	55.9
80°	38.2	38.2	36.7	36.7	36.4	35.5	36.4	35.8	37.0	39.9	42.9
82.5°	27.3	26.8	26.8	26.3	26.2	25.6	26.0	26.5	27.0	29.1	30.8
85°	13.3	13.3	13.0	12.8	13.0	12.8	13.0	13.3	13.6	14.5	16.0
87.5°	7.6	7.6	7.4	7.3	6.9	6.7	6.4	6.1	6.1	5.8	5.5
90°	23.8	22.5	20.5	18.5	16.6	14.5	12.1	9.4	6.7	3.9	1.1
92.5°	26.8	26.1	25.1	24.2	23.1	22.1	21.8	22.0	22.3	22.5	22.7
95°	45.2	44.0	42.2	40.4	38.7	36.9	40.2	48.5	56.7	65.0	73.2
97.5°	59.8	58.8	54.7	50.7	46.7	42.6	52.2	75.5	98.8	122.1	145.4
100°	66.2	64.2	60.0	55.7	51.4	47.2	62.2	96.5	130.8	165.1	199.4
102.5°	68.6	66.0	101.6	137.2	172.9	208.4	229.9	237.1	244.4	251.7	258.9
105°	71.5	68.8	137.0	205.4	273.8	342.1	372.6	365.0	357.5	350.0	342.5
107.5°	93.4	96.3	178.2	260.2	342.1	424.1	462.1	456.0	450.0	443.9	437.8
110°	172.1	197.2	269.5	341.9	414.2	486.6	520.1	514.9	509.6	504.4	499.2



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	406.0	497.3	515.2	533.1	551.0	568.8	575.4	570.8	566.1	561.4	556.8
115°	579.2	695.1	688.9	682.6	676.4	670.1	664.9	660.6	656.3	652.1	647.8
117.5°	742.0	770.0	765.6	761.4	757.0	752.7	748.2	743.5	738.7	734.0	729.2
120°	828.9	825.9	821.3	816.8	812.3	807.8	803.7	799.9	796.1	792.4	788.7
122.5°	880.8	879.0	874.1	869.2	864.3	859.4	855.0	851.0	847.1	843.1	839.2
125°	953.8	952.0	947.3	942.5	937.8	933.0	929.0	925.7	922.5	919.2	916.0
127.5°	1020.4	1017.9	1014.3	1010.7	1007.2	1003.6	1000.1	996.4	992.8	989.2	985.6
130°	1063.0	1060.2	1057.4	1054.7	1051.9	1049.2	1045.8	1041.8	1037.8	1033.8	1029.8
132.5°	1104.9	1102.6	1099.8	1097.0	1094.3	1091.5	1088.5	1085.1	1081.6	1078.2	1074.8
135°	1164.1	1161.6	1159.4	1157.1	1154.8	1152.5	1149.5	1145.4	1141.5	1137.4	1133.5
137.5°	1219.2	1216.8	1214.3	1211.7	1209.1	1206.6	1203.9	1201.1	1198.3	1195.5	1192.7
140°	1255.1	1252.8	1250.1	1247.4	1244.6	1241.8	1239.4	1237.5	1235.5	1233.4	1231.4
142.5°	1288.2	1286.2	1283.0	1279.9	1276.8	1273.6	1271.1	1269.3	1267.5	1265.7	1263.9
145°	1334.6	1332.8	1328.6	1324.4	1320.1	1315.8	1313.8	1314.1	1314.3	1314.5	1314.9
147.5°	1375.1	1373.9	1369.7	1365.5	1361.2	1357.0	1355.4	1356.4	1357.3	1358.3	1359.2
150°	1399.7	1398.2	1394.2	1390.2	1386.2	1382.2	1381.0	1382.8	1384.6	1386.3	1388.1
152.5°	1422.2	1420.7	1416.9	1413.1	1409.3	1405.5	1404.6	1406.5	1408.5	1410.5	1412.4
155°	1452.6	1451.1	1448.2	1445.2	1442.2	1439.2	1438.8	1441.0	1443.3	1445.5	1447.8
157.5°	1478.1	1476.4	1474.3	1472.2	1470.1	1468.0	1467.9	1469.8	1471.7	1473.6	1475.5
160°	1493.2	1491.7	1490.2	1488.7	1487.2	1485.7	1485.7	1487.2	1488.7	1490.2	1491.7
162.5°	1507.0	1505.2	1504.0	1502.6	1501.3	1500.0	1500.2	1501.7	1503.2	1504.7	1506.1
165°	1523.9	1522.1	1521.4	1520.6	1519.9	1519.2	1519.5	1521.0	1522.5	1524.0	1525.5
167.5°	1538.1	1536.4	1535.6	1534.9	1534.2	1533.5	1533.9	1535.4	1536.9	1538.4	1539.9
170°	1545.3	1543.6	1543.0	1542.5	1542.1	1541.5	1542.1	1543.6	1545.1	1546.6	1548.1
172.5°	1550.7	1549.0	1548.5	1547.9	1547.4	1547.0	1547.4	1549.0	1550.5	1552.0	1553.5
175°	1556.6	1554.8	1554.3	1553.8	1553.3	1552.8	1553.5	1555.2	1557.0	1558.7	1560.4
177.5°	1557.6	1556.2	1555.9	1555.8	1555.5	1555.4	1555.9	1557.4	1558.8	1560.2	1561.5
180°	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8
2.5°	773.8	775.0	778.8	782.6	786.8	788.0	789.9	788.2	787.7	792.3	795.6
5°	776.0	781.3	791.7	801.1	809.1	814.8	820.7	823.1	827.5	833.7	841.4
7.5°	773.5	783.9	800.2	814.0	828.9	839.8	848.3	855.5	864.2	876.0	888.8
10°	770.7	784.6	804.4	821.3	839.6	853.5	865.1	876.3	889.3	905.6	922.4
12.5°	765.5	782.0	806.8	826.7	850.2	864.0	879.5	903.7	917.7	940.4	964.1
15°	755.0	773.3	807.9	832.5	859.1	885.2	913.9	936.9	960.0	973.4	1006.8
17.5°	739.4	766.4	804.7	833.4	867.2	908.2	940.4	966.6	993.2	1014.8	1031.6
20°	726.9	756.2	799.9	834.3	874.5	918.6	955.6	982.2	1005.3	1023.3	1033.7
22.5°	711.1	747.9	790.5	830.8	882.1	925.7	964.6	985.6	1004.8	1013.6	1017.6
25°	686.0	730.5	778.6	827.8	885.7	931.9	967.4	980.2	985.8	977.2	963.0
27.5°	659.2	708.6	765.0	822.2	883.5	927.9	953.3	951.3	941.8	914.0	891.8
30°	639.1	693.5	754.1	816.5	878.1	921.2	936.0	921.2	899.7	868.6	836.9
32.5°	618.0	674.3	742.5	808.5	868.2	906.1	909.3	883.8	850.4	815.2	775.6
35°	586.1	647.1	720.6	790.5	847.0	871.0	856.7	811.8	772.1	724.0	670.1
37.5°	550.0	617.3	691.2	764.1	815.4	821.7	786.4	739.0	683.1	626.5	563.1
40°	523.1	594.4	670.4	744.0	789.3	782.8	737.8	685.8	619.2	550.0	491.1
42.5°	498.9	570.2	647.7	719.9	756.2	738.3	685.8	621.9	550.3	485.1	431.3
45°	457.1	530.4	609.7	679.5	700.3	668.0	598.5	527.5	457.1	402.7	360.0
47.5°	416.5	489.0	567.5	628.9	636.3	592.9	516.9	443.9	383.3	339.0	309.0
50°	386.7	459.5	537.3	592.0	589.6	537.3	459.1	389.6	339.1	303.2	283.1
52.5°	359.9	428.6	503.4	553.2	540.7	483.5	409.0	347.3	305.7	277.7	259.4
55°	318.3	381.9	453.0	492.9	469.8	406.5	343.5	293.7	263.0	242.0	227.8
57.5°	277.0	336.7	397.4	422.1	396.6	338.1	285.6	249.5	226.4	210.8	201.6
60°	251.4	303.6	357.7	379.0	348.5	296.4	255.0	222.8	204.1	191.4	183.2
62.5°	225.9	272.5	323.6	335.2	307.3	263.3	226.6	199.8	184.5	173.2	165.4
65°	191.2	229.3	268.1	275.8	250.0	215.9	187.0	169.5	155.9	147.7	141.4
67.5°	156.8	187.4	214.8	221.0	198.5	174.9	153.9	138.8	129.5	122.6	117.4
70°	136.4	160.7	183.2	188.1	170.1	149.1	133.2	121.0	112.7	106.8	101.8
72.5°	114.9	135.1	153.8	157.2	142.4	126.4	113.3	103.7	96.4	92.6	87.8
75°	87.9	99.7	114.2	115.1	105.4	95.5	85.5	79.3	75.4	70.7	68.4
77.5°	62.0	71.3	79.6	81.2	75.4	68.8	63.1	58.2	55.0	52.8	50.6
80°	47.4	54.7	58.3	60.4	56.2	51.5	48.2	45.0	42.9	41.4	39.9
82.5°	33.8	38.4	41.7	43.3	41.0	38.3	34.9	33.1	31.5	30.3	29.8
85°	17.2	19.3	21.3	21.9	21.3	20.1	18.4	18.4	17.4	17.2	17.2
87.5°	6.7	8.2	8.7	10.0	10.0	10.4	10.8	10.9	11.2	11.2	11.2
90°	3.9	6.7	9.4	12.1	14.5	16.6	18.5	20.5	22.5	23.8	25.0
92.5°	22.5	22.3	22.0	21.8	22.1	23.1	24.2	25.1	26.1	26.8	27.4
95°	65.0	56.7	48.5	40.2	36.9	38.7	40.4	42.2	44.0	45.2	46.4
97.5°	122.1	98.8	75.5	52.2	42.6	46.7	50.7	54.7	58.8	59.8	60.8
100°	165.1	130.8	96.5	62.2	47.2	51.4	55.7	60.0	64.2	66.2	68.2
102.5°	251.7	244.4	237.1	229.9	208.4	172.9	137.2	101.6	66.0	68.6	71.2
105°	350.0	357.5	365.0	372.6	342.1	273.8	205.4	137.0	68.8	71.5	74.2
107.5°	443.9	450.0	456.0	462.1	424.1	342.1	260.2	178.2	96.3	93.4	90.6
110°	504.4	509.6	514.9	520.1	486.6	414.2	341.9	269.5	197.2	172.1	147.1





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	561.4	566.1	570.8	575.4	568.8	551.0	533.1	515.2	497.3	406.0	314.7
115°	652.1	656.3	660.6	664.9	670.1	676.4	682.6	688.9	695.1	579.2	463.3
117.5°	734.0	738.7	743.5	748.2	752.7	757.0	761.4	765.6	770.0	742.0	713.9
120°	792.4	796.1	799.9	803.7	807.8	812.3	816.8	821.3	825.9	828.9	831.9
122.5°	843.1	847.1	851.0	855.0	859.4	864.3	869.2	874.1	879.0	880.8	882.6
125°	919.2	922.5	925.7	929.0	933.0	937.8	942.5	947.3	952.0	953.8	955.5
127.5°	989.2	992.8	996.4	1000.1	1003.6	1007.2	1010.7	1014.3	1017.9	1020.4	1022.9
130°	1033.8	1037.8	1041.8	1045.8	1049.2	1051.9	1054.7	1057.4	1060.2	1063.0	1065.7
132.5°	1078.2	1081.6	1085.1	1088.5	1091.5	1094.3	1097.0	1099.8	1102.6	1104.9	1107.2
135°	1137.4	1141.5	1145.4	1149.5	1152.5	1154.8	1157.1	1159.4	1161.6	1164.1	1166.6
137.5°	1195.5	1198.3	1201.1	1203.9	1206.6	1209.1	1211.7	1214.3	1216.8	1219.2	1221.7
140°	1233.4	1235.5	1237.5	1239.4	1241.8	1244.6	1247.4	1250.1	1252.8	1255.1	1257.4
142.5°	1265.7	1267.5	1269.3	1271.1	1273.6	1276.8	1279.9	1283.0	1286.2	1288.2	1290.3
145°	1314.5	1314.3	1314.1	1313.8	1315.8	1320.1	1324.4	1328.6	1332.8	1334.6	1336.3
147.5°	1358.3	1357.3	1356.4	1355.4	1357.0	1361.2	1365.5	1369.7	1373.9	1375.1	1376.5
150°	1386.3	1384.6	1382.8	1381.0	1382.2	1386.2	1390.2	1394.2	1398.2	1399.7	1401.2
152.5°	1410.5	1408.5	1406.5	1404.6	1405.5	1409.3	1413.1	1416.9	1420.7	1422.2	1423.7
155°	1445.5	1443.3	1441.0	1438.8	1439.2	1442.2	1445.2	1448.2	1451.1	1452.6	1454.1
157.5°	1473.6	1471.7	1469.8	1467.9	1468.0	1470.1	1472.2	1474.3	1476.4	1478.1	1479.8
160°	1490.2	1488.7	1487.2	1485.7	1485.7	1487.2	1488.7	1490.2	1491.7	1493.2	1494.7
162.5°	1504.7	1503.2	1501.7	1500.2	1500.0	1501.3	1502.6	1504.0	1505.2	1507.0	1508.6
165°	1524.0	1522.5	1521.0	1519.5	1519.2	1519.9	1520.6	1521.4	1522.1	1523.9	1525.7
167.5°	1538.4	1536.9	1535.4	1533.9	1533.5	1534.2	1534.9	1535.6	1536.4	1538.1	1539.8
170°	1546.6	1545.1	1543.6	1542.1	1541.5	1542.1	1542.5	1543.0	1543.6	1545.3	1547.1
172.5°	1552.0	1550.5	1549.0	1547.4	1547.0	1547.4	1547.9	1548.5	1549.0	1550.7	1552.4
175°	1558.7	1557.0	1555.2	1553.5	1552.8	1553.3	1553.8	1554.3	1554.8	1556.6	1558.3
177.5°	1560.2	1558.8	1557.4	1555.9	1555.4	1555.5	1555.8	1555.9	1556.2	1557.6	1558.9
180°	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	769.8	769.8	769.8	769.8	769.8	769.8	769.8
2.5°	798.4	801.8	801.8	802.2	806.0	805.6	805.3
5°	849.7	854.7	855.3	860.6	864.2	863.0	859.8
7.5°	898.0	907.4	914.5	918.5	923.1	926.0	924.7
10°	936.4	950.0	958.2	963.8	970.7	975.7	973.9
12.5°	971.1	987.4	998.7	1008.4	1009.2	1015.7	1011.3
15°	1025.4	1042.6	1044.3	1051.5	1057.1	1056.5	1056.8
17.5°	1043.3	1048.8	1050.0	1050.1	1050.2	1048.1	1043.6
20°	1037.0	1034.9	1029.8	1026.0	1019.2	1018.3	1012.4
22.5°	1006.6	1000.1	987.5	979.1	968.5	965.7	964.1
25°	947.0	932.5	912.4	893.2	887.8	877.5	880.4
27.5°	865.1	842.6	820.8	805.2	791.1	775.5	780.0
30°	807.6	782.2	751.5	727.8	712.7	697.9	695.2
32.5°	739.0	701.7	667.4	646.6	623.4	614.1	603.9
35°	620.7	584.3	550.2	521.0	504.1	491.1	479.3
37.5°	514.2	472.4	444.9	421.2	409.0	401.6	403.4
40°	448.2	411.5	391.4	373.4	362.1	356.8	358.0
42.5°	394.7	367.3	350.7	338.3	330.4	327.4	326.7
45°	334.0	318.6	305.0	297.9	294.1	290.8	288.8
47.5°	292.6	280.0	272.4	268.2	264.7	261.5	261.4
50°	267.8	259.4	254.1	249.7	247.0	244.6	246.8
52.5°	248.8	241.2	235.9	232.0	230.9	228.8	228.8
55°	220.7	214.8	211.0	207.4	205.7	204.5	203.0
57.5°	195.1	189.5	186.0	183.7	180.4	179.2	178.7
60°	176.9	172.5	168.9	166.0	164.5	162.2	162.2
62.5°	160.1	155.7	152.3	150.1	147.7	146.7	146.9
65°	135.8	132.2	129.0	126.6	126.0	124.3	124.8
67.5°	113.4	111.1	107.7	106.3	105.2	104.3	103.5
70°	98.5	96.2	94.3	92.6	91.7	91.7	91.7
72.5°	86.0	83.1	82.1	79.9	80.3	79.4	78.4
75°	66.5	64.8	63.9	63.0	61.6	61.6	61.6
77.5°	49.0	48.5	47.4	46.4	46.1	45.8	45.9
80°	37.9	37.5	37.0	37.0	36.4	36.1	35.5
82.5°	29.1	28.4	28.0	27.7	27.6	27.6	27.5
85°	16.6	16.0	16.0	16.2	15.7	15.7	16.0
87.5°	11.6	11.9	11.8	12.0	12.3	12.1	12.2
90°	26.3	27.6	28.4	28.9	29.4	29.9	30.4
92.5°	28.1	28.8	29.2	29.5	29.8	30.1	30.4
95°	47.7	49.0	49.4	49.2	49.0	48.7	48.5
97.5°	61.8	62.8	63.5	63.8	64.1	64.4	64.6
100°	70.3	72.2	73.5	74.0	74.5	75.0	75.5
102.5°	73.8	76.4	78.1	78.8	79.5	80.2	80.9
105°	77.0	79.8	81.6	82.6	83.7	84.6	85.6
107.5°	87.8	85.0	84.1	85.1	86.1	87.1	88.1
110°	122.1	97.0	85.0	86.0	87.0	88.0	89.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	223.3	132.0	86.7	87.5	88.3	89.1	89.9
115°	347.4	231.5	164.5	146.5	128.4	110.4	92.4
117.5°	685.9	657.8	614.2	554.9	495.7	436.4	377.2
120°	834.9	837.9	822.4	788.7	754.9	721.0	687.3
122.5°	884.5	886.2	883.8	877.3	870.8	864.2	857.6
125°	957.3	959.0	960.3	961.1	961.8	962.6	963.3
127.5°	1025.5	1028.0	1029.4	1029.5	1029.7	1029.8	1030.0
130°	1068.5	1071.2	1072.5	1072.2	1072.0	1071.7	1071.4
132.5°	1109.6	1112.0	1113.0	1112.8	1112.5	1112.3	1112.0
135°	1169.1	1171.6	1172.6	1172.1	1171.6	1171.1	1170.6
137.5°	1224.2	1226.6	1227.4	1226.5	1225.7	1224.9	1224.0
140°	1259.6	1261.9	1262.3	1261.2	1259.9	1258.6	1257.4
142.5°	1292.4	1294.4	1294.8	1293.6	1292.3	1291.1	1289.8
145°	1338.1	1339.9	1340.1	1338.9	1337.6	1336.3	1335.1
147.5°	1377.8	1379.1	1379.2	1378.2	1377.1	1376.0	1375.0
150°	1402.7	1404.2	1404.3	1403.1	1401.8	1400.6	1399.3
152.5°	1425.2	1426.7	1426.6	1425.0	1423.4	1421.7	1420.1
155°	1455.6	1457.1	1456.9	1454.9	1452.9	1450.9	1448.9
157.5°	1481.5	1483.2	1483.0	1481.1	1479.2	1477.2	1475.3
160°	1496.2	1497.7	1497.6	1495.9	1494.1	1492.3	1490.6
162.5°	1510.4	1512.0	1511.8	1509.7	1507.5	1505.4	1503.2
165°	1527.4	1529.1	1529.1	1527.4	1525.7	1523.9	1522.1
167.5°	1541.6	1543.3	1543.1	1540.9	1538.6	1536.4	1534.1
170°	1548.8	1550.5	1550.3	1548.1	1545.8	1543.6	1541.3
172.5°	1554.2	1555.9	1555.7	1553.5	1551.2	1549.0	1546.7
175°	1560.0	1561.8	1561.5	1558.9	1556.4	1553.9	1551.4
177.5°	1560.4	1561.8	1561.5	1559.7	1558.0	1556.2	1554.3
180°	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0

(END OF REPORT)