

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: P331519-940

Luminaire Tested: **S122DIW-S485D1440U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331519-940
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-S485D1440U940-4F0-1E-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: 7052.3 lumens
Efficiency: N/A
Efficacy: 116.4 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

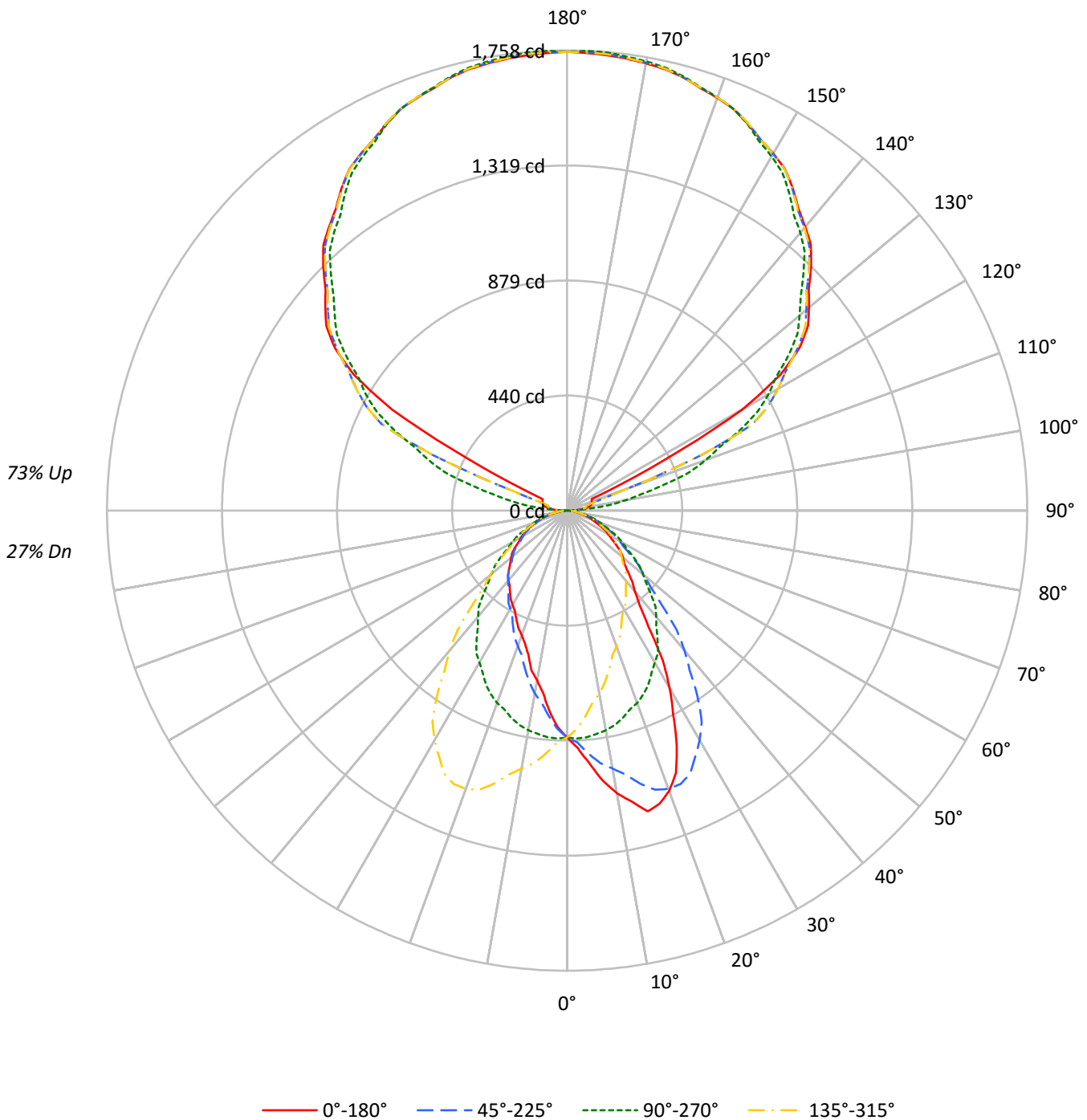
Input Watts (W): 60.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	13990	13990	13990	13990
5°	15686	14083	12478	14083
10°	17974	13967	10799	13967
15°	19883	13710	9541	13710
20°	19581	13435	8698	13435
25°	17655	13069	8165	13069
30°	14590	12486	7774	12486
35°	10634	11874	7496	11874
40°	8494	11152	7341	11152
45°	7421	10319	7133	10319
50°	6978	9510	6993	9510
55°	6432	8690	6804	8690
60°	5893	7818	6516	7818
65°	5368	7033	6235	7033
70°	4877	6274	5816	6274
75°	4323	5421	5153	5421
80°	3710	4491	4147	4491
85°	3335	3335	2464	3335



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.5	1.2
10°-20°	239.9	3.4
20°-30°	348.2	4.9
30°-40°	367.4	5.2
40°-50°	325.3	4.6
50°-60°	259.6	3.7
60°-70°	176.5	2.5
70°-80°	90.5	1.3
80°-90°	26.1	0.4
90°-100°	58.5	0.8
100°-110°	214.4	3.0
110°-120°	573.1	8.1
120°-130°	946.0	13.4
130°-140°	1006.1	14.3
140°-150°	935.1	13.3
150°-160°	751.8	10.7
160°-170°	484.5	6.9
170°-180°	166.8	2.4
0°-30°	670.6	9.5
0°-40°	1038.0	14.7
0°-60°	1623.0	23.0
0°-90°	1916.0	27.2
90°-120°	846.0	12.0
90°-150°	3733.2	52.9
90°-180°	5136.0	72.8
0°-180°	7052.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	866	866	866	866	866	
5°	968	869	770	869	968	97
15°	1190	820	571	820	1190	328
25°	991	734	458	734	991	448
35°	540	602	380	602	540	351
45°	325	452	312	452	325	256
55°	228	309	242	309	228	205
65°	140	184	163	184	140	140
75°	69	87	83	87	69	74
85°	18	18	13	18	18	21
90°	34	1	34	1	34	16
95°	55	82	55	82	55	51
105°	96	386	96	386	96	100
115°	104	729	104	729	104	260
125°	1084	1031	1084	1031	1084	938
135°	1318	1276	1318	1276	1318	1016
145°	1503	1480	1503	1480	1503	940
155°	1631	1630	1631	1630	1631	753
165°	1713	1717	1713	1717	1713	484
175°	1746	1756	1746	1756	1746	166
180°	1753	1753	1753	1753	1753	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	906.5	906.8	907.2	903.0	902.5	902.5	898.8	895.5	891.8	886.7	887.3
5°	967.8	971.4	972.8	968.8	962.8	962.1	956.4	947.1	938.4	931.5	926.5
7.5°	1040.9	1042.3	1039.1	1033.8	1029.4	1021.4	1010.8	1000.5	986.1	972.8	963.0
10°	1096.3	1098.3	1092.6	1084.9	1078.6	1069.3	1054.0	1038.3	1019.4	1001.0	986.4
12.5°	1138.4	1143.4	1136.0	1135.1	1124.2	1111.4	1093.1	1085.2	1058.5	1033.0	1017.3
15°	1189.5	1189.2	1189.9	1183.6	1175.5	1173.6	1154.2	1133.3	1095.6	1080.7	1054.6
17.5°	1174.7	1179.8	1182.1	1182.1	1181.9	1180.6	1174.4	1161.2	1142.3	1118.0	1088.1
20°	1139.6	1146.2	1147.3	1154.9	1159.2	1164.9	1167.2	1163.6	1151.9	1131.6	1105.6
22.5°	1085.2	1087.1	1090.2	1102.2	1111.5	1125.7	1133.1	1145.4	1140.9	1131.0	1109.4
25°	991.0	987.7	999.3	1005.4	1027.0	1049.6	1066.0	1084.0	1099.9	1109.6	1103.3
27.5°	878.0	873.0	890.5	906.3	923.9	948.4	973.8	1003.9	1028.9	1060.2	1070.9
30°	782.6	785.6	802.3	819.2	845.9	880.5	909.1	942.1	977.8	1012.7	1037.0
32.5°	679.8	691.3	701.8	727.8	751.3	789.9	831.9	873.1	917.6	957.3	994.9
35°	539.5	552.8	567.5	586.5	619.4	657.7	698.7	754.3	814.9	869.2	913.8
37.5°	454.1	452.0	460.4	474.1	500.8	531.7	578.8	633.8	705.2	768.9	831.9
40°	403.0	401.6	407.6	420.3	440.6	463.2	504.5	552.8	619.1	697.0	772.0
42.5°	367.7	368.5	371.9	380.8	394.8	413.4	444.3	485.4	546.1	619.5	700.0
45°	325.0	327.3	331.0	335.4	343.3	358.6	375.9	405.3	453.3	514.5	593.8
47.5°	294.3	294.4	298.0	301.8	306.6	315.2	329.4	347.8	381.6	431.5	499.6
50°	277.8	275.4	278.0	281.1	286.1	292.0	301.4	318.7	341.3	381.7	438.5
52.5°	257.5	257.5	259.9	261.1	265.6	271.5	280.1	292.0	312.5	344.1	390.9
55°	228.5	230.2	231.5	233.4	237.5	241.7	248.4	256.5	272.4	296.0	330.6
57.5°	201.2	201.7	203.0	206.8	209.4	213.3	219.6	226.9	237.3	254.9	280.9
60°	182.5	182.5	185.1	186.8	190.1	194.1	199.1	206.2	215.4	229.8	250.7
62.5°	165.4	165.1	166.2	169.0	171.5	175.2	180.2	186.2	194.9	207.7	224.9
65°	140.5	139.9	141.9	142.5	145.2	148.8	152.8	159.2	166.2	175.5	190.8
67.5°	116.5	117.3	118.4	119.7	121.2	125.0	127.7	132.2	138.0	145.8	156.2
70°	103.3	103.3	103.3	104.2	106.2	108.3	110.9	114.6	120.2	126.9	136.2
72.5°	88.3	89.3	90.4	89.9	92.4	93.5	96.8	98.8	104.2	108.5	116.7
75°	69.3	69.3	69.3	70.9	72.0	72.9	74.9	77.0	79.6	84.9	89.3
77.5°	51.7	51.5	51.9	52.3	53.3	54.6	55.1	57.0	59.4	61.9	65.5
80°	39.9	40.7	40.9	41.6	41.6	42.3	42.6	44.9	46.6	48.3	50.6
82.5°	30.9	31.0	31.1	31.2	31.5	31.9	32.7	33.5	34.1	35.5	37.3
85°	18.0	17.7	17.7	18.3	18.0	18.0	18.6	19.4	19.4	19.6	20.7
87.5°	13.7	13.6	13.8	13.5	13.3	13.4	13.1	12.6	12.6	12.6	12.3
90°	34.2	33.7	33.1	32.5	32.0	31.0	29.6	28.2	26.8	25.3	23.1
92.5°	34.2	33.9	33.5	33.3	32.9	32.4	31.7	30.9	30.1	29.4	28.3
95°	54.6	54.8	55.1	55.4	55.6	55.1	53.7	52.3	50.8	49.5	47.5
97.5°	72.8	72.5	72.1	71.8	71.4	70.7	69.6	68.5	67.3	66.2	61.6
100°	85.0	84.4	83.8	83.3	82.8	81.3	79.1	76.8	74.5	72.3	67.5
102.5°	91.0	90.2	89.4	88.7	87.9	86.1	83.1	80.2	77.2	74.3	114.4
105°	96.4	95.2	94.2	93.0	91.8	89.8	86.7	83.6	80.4	77.4	154.3
107.5°	99.2	98.1	96.9	95.8	94.7	95.7	98.8	102.0	105.1	108.3	200.5
110°	100.2	99.1	97.9	96.8	95.7	109.2	137.4	165.6	193.8	221.9	303.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	101.2	100.3	99.4	98.5	97.6	148.6	251.4	354.2	457.0	559.8	579.9
115°	104.0	124.3	144.5	164.9	185.1	260.6	391.0	521.6	652.0	782.5	775.4
117.5°	424.6	491.2	557.9	624.6	691.3	740.5	772.0	803.6	835.2	866.7	861.8
120°	773.6	811.6	849.7	887.8	925.8	943.2	939.8	936.4	933.0	929.6	924.5
122.5°	965.4	972.8	980.2	987.5	994.9	997.6	995.6	993.5	991.5	989.4	983.9
125°	1084.3	1083.5	1082.6	1081.8	1080.9	1079.5	1077.5	1075.6	1073.6	1071.7	1066.3
127.5°	1159.4	1159.2	1159.0	1158.9	1158.8	1157.2	1154.3	1151.5	1148.6	1145.8	1141.7
130°	1206.0	1206.4	1206.7	1206.9	1207.2	1205.8	1202.7	1199.6	1196.5	1193.4	1190.3
132.5°	1251.7	1252.1	1252.3	1252.6	1252.9	1251.7	1249.0	1246.3	1243.8	1241.1	1238.0
135°	1317.7	1318.2	1318.8	1319.4	1319.9	1318.8	1316.0	1313.1	1310.4	1307.5	1305.0
137.5°	1377.8	1378.8	1379.7	1380.6	1381.6	1380.7	1378.0	1375.2	1372.4	1369.7	1366.8
140°	1415.3	1416.8	1418.2	1419.6	1420.9	1420.4	1417.9	1415.3	1412.8	1410.2	1407.2
142.5°	1451.9	1453.3	1454.6	1456.1	1457.5	1457.1	1454.7	1452.4	1450.1	1447.8	1444.2
145°	1502.9	1504.2	1505.7	1507.1	1508.5	1508.2	1506.2	1504.2	1502.3	1500.3	1495.5
147.5°	1547.7	1548.9	1550.2	1551.3	1552.5	1552.4	1550.9	1549.4	1547.9	1546.5	1541.8
150°	1575.1	1576.5	1578.0	1579.4	1580.7	1580.6	1579.0	1577.3	1575.6	1573.9	1569.3
152.5°	1598.5	1600.4	1602.2	1604.0	1605.9	1606.0	1604.3	1602.6	1600.9	1599.2	1594.9
155°	1630.9	1633.2	1635.5	1637.7	1639.9	1640.2	1638.5	1636.8	1635.1	1633.4	1630.1
157.5°	1660.6	1662.8	1665.0	1667.2	1669.4	1669.6	1667.6	1665.7	1663.8	1661.9	1659.5
160°	1677.8	1679.8	1681.8	1683.8	1685.8	1685.9	1684.2	1682.5	1680.8	1679.1	1677.4
162.5°	1692.1	1694.5	1696.9	1699.3	1701.7	1702.0	1700.1	1698.2	1696.3	1694.3	1692.9
165°	1713.3	1715.4	1717.3	1719.3	1721.3	1721.3	1719.3	1717.3	1715.4	1713.3	1712.5
167.5°	1726.8	1729.4	1731.9	1734.5	1737.0	1737.2	1735.3	1733.3	1731.3	1729.4	1728.6
170°	1734.9	1737.5	1740.0	1742.6	1745.1	1745.3	1743.4	1741.4	1739.5	1737.5	1736.9
172.5°	1741.0	1743.6	1746.1	1748.6	1751.1	1751.4	1749.4	1747.5	1745.5	1743.6	1743.0
175°	1746.3	1749.2	1751.9	1754.8	1757.7	1758.0	1756.0	1754.1	1752.1	1750.2	1749.6
177.5°	1749.6	1751.7	1753.7	1755.7	1757.7	1758.0	1756.4	1754.8	1753.3	1751.7	1751.4
180°	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	889.1	887.0	885.6	880.9	876.6	872.4	871.0	871.6	865.7	860.1	857.7
5°	923.8	917.1	910.8	901.8	891.2	879.5	873.5	868.9	857.2	844.5	837.2
7.5°	954.8	945.3	933.1	916.2	900.7	882.3	870.7	860.4	843.3	825.5	814.6
10°	973.7	960.7	945.1	924.4	905.4	883.2	867.5	851.9	831.9	810.6	797.3
12.5°	990.0	972.5	957.1	930.6	908.1	880.2	861.7	839.6	818.6	793.3	780.2
15°	1028.7	996.4	967.1	937.1	909.5	870.5	849.9	820.2	792.6	761.3	746.3
17.5°	1058.5	1022.3	976.2	938.1	905.8	862.6	832.3	796.8	764.1	728.3	708.0
20°	1075.7	1034.0	984.4	939.1	900.4	851.2	818.2	781.9	743.6	703.3	681.4
22.5°	1085.7	1042.1	992.9	935.1	889.8	841.9	800.4	760.6	721.8	678.3	655.2
25°	1089.0	1049.0	997.0	931.7	876.5	822.2	772.2	733.6	686.7	646.0	612.4
27.5°	1073.1	1044.5	994.5	925.5	861.1	797.6	742.0	698.2	648.6	604.6	570.7
30°	1053.6	1037.0	988.4	919.1	848.8	780.6	719.3	669.7	620.5	575.8	541.2
32.5°	1023.6	1019.9	977.2	910.1	835.8	759.0	695.6	645.4	590.8	547.0	514.0
35°	964.4	980.4	953.4	889.8	811.2	728.3	659.7	602.4	545.8	503.8	472.9
37.5°	885.2	924.9	917.8	860.1	778.0	694.9	619.1	559.3	505.3	463.0	432.6
40°	830.5	881.2	888.5	837.5	754.7	669.1	588.8	529.1	476.5	437.9	407.2
42.5°	772.0	831.1	851.2	810.4	729.1	641.9	561.6	499.9	447.8	410.2	383.1
45°	673.7	752.0	788.3	764.9	686.3	597.1	514.5	451.9	404.7	369.3	348.3
47.5°	581.8	667.4	716.2	707.9	638.8	550.5	468.9	408.8	362.7	334.6	315.8
50°	516.8	604.8	663.7	666.4	604.8	517.2	435.2	378.6	336.4	310.0	294.7
52.5°	460.4	544.3	608.6	622.7	566.7	482.5	405.1	348.8	311.6	287.4	273.7
55°	386.6	457.5	528.9	554.8	509.9	429.9	358.3	308.7	273.8	257.1	245.1
57.5°	321.5	380.6	446.4	475.1	447.4	379.0	311.8	268.8	240.4	225.8	216.6
60°	287.0	333.7	392.3	426.6	402.6	341.7	283.0	242.1	218.8	205.8	197.2
62.5°	255.1	296.4	345.9	377.3	364.3	306.7	254.3	218.1	198.0	185.8	179.6
65°	210.4	243.1	281.4	310.4	301.8	258.1	215.2	184.1	168.2	158.5	153.6
67.5°	173.3	196.9	223.5	248.8	241.8	210.9	176.5	152.3	140.4	132.1	129.1
70°	149.9	167.8	191.5	211.8	206.2	180.8	153.6	132.9	122.5	115.6	112.5
72.5°	127.5	142.2	160.3	176.9	173.1	152.0	129.3	113.7	105.8	99.3	96.8
75°	96.2	107.5	118.6	129.6	128.6	112.3	98.9	86.9	80.6	75.6	74.6
77.5°	71.1	77.4	84.9	91.4	89.6	80.3	69.8	63.0	58.3	54.9	54.4
80°	54.3	58.0	63.3	67.9	65.6	61.6	53.3	48.3	44.9	41.6	40.3
82.5°	39.3	43.1	46.2	48.8	47.0	43.2	38.1	34.7	32.7	30.4	29.9
85°	20.7	22.6	24.0	24.6	24.0	21.7	19.4	18.0	16.3	15.3	15.0
87.5°	12.1	11.7	11.2	11.2	9.8	9.2	7.5	6.2	6.5	6.9	6.9
90°	20.9	18.6	16.3	13.6	10.6	7.5	4.4	1.2	4.4	7.5	10.6
92.5°	27.2	26.0	24.9	24.5	24.8	25.1	25.3	25.6	25.3	25.1	24.8
95°	45.5	43.5	41.6	45.2	54.6	63.8	73.1	82.4	73.1	63.8	54.6
97.5°	57.1	52.5	48.0	58.8	85.0	111.2	137.4	163.6	137.4	111.2	85.0
100°	62.7	57.9	53.1	70.0	108.6	147.2	185.8	224.4	185.8	147.2	108.6
102.5°	154.4	194.6	234.6	258.8	266.9	275.1	283.3	291.4	283.3	275.1	266.9
105°	231.2	308.2	385.1	419.4	410.9	402.4	394.0	385.6	394.0	402.4	410.9
107.5°	292.8	385.1	477.4	520.1	513.3	506.5	499.6	492.8	499.6	506.5	513.3
110°	384.9	466.3	547.7	585.5	579.6	573.6	567.8	561.9	567.8	573.6	579.6



TEST NUMBER: P331519-940

CATALOG NUMBER: S122DIW-S485D1440U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	600.0	620.2	640.2	647.7	642.5	637.2	632.0	626.8	632.0	637.2	642.5
115°	768.4	761.3	754.3	748.4	743.6	738.8	734.1	729.2	734.1	738.8	743.6
117.5°	857.0	852.1	847.3	842.2	836.9	831.5	826.2	820.8	826.2	831.5	836.9
120°	919.4	914.4	909.3	904.6	900.4	896.2	892.0	887.8	892.0	896.2	900.4
122.5°	978.4	972.9	967.4	962.4	958.0	953.5	949.0	944.6	949.0	953.5	958.0
125°	1061.0	1055.6	1050.3	1045.7	1042.1	1038.4	1034.7	1031.1	1034.7	1038.4	1042.1
127.5°	1137.7	1133.7	1129.7	1125.7	1121.6	1117.6	1113.5	1109.5	1113.5	1117.6	1121.6
130°	1187.2	1184.1	1181.0	1177.2	1172.7	1168.1	1163.7	1159.1	1163.7	1168.1	1172.7
132.5°	1234.8	1231.8	1228.7	1225.2	1221.4	1217.5	1213.7	1209.9	1213.7	1217.5	1221.4
135°	1302.4	1299.9	1297.4	1293.9	1289.3	1284.9	1280.3	1275.9	1280.3	1284.9	1289.3
137.5°	1364.0	1361.0	1358.2	1355.1	1352.0	1348.9	1345.7	1342.6	1345.7	1348.9	1352.0
140°	1404.1	1401.0	1397.8	1395.2	1392.9	1390.7	1388.4	1386.2	1388.4	1390.7	1392.9
142.5°	1440.7	1437.2	1433.6	1430.8	1428.8	1426.7	1424.7	1422.7	1424.7	1426.7	1428.8
145°	1490.8	1485.9	1481.1	1478.9	1479.2	1479.4	1479.7	1480.1	1479.7	1479.4	1479.2
147.5°	1537.0	1532.2	1527.5	1525.7	1526.8	1527.9	1528.9	1530.0	1528.9	1527.9	1526.8
150°	1564.9	1560.3	1555.9	1554.5	1556.6	1558.5	1560.5	1562.5	1560.5	1558.5	1556.6
152.5°	1590.6	1586.4	1582.1	1581.1	1583.2	1585.5	1587.7	1589.8	1587.7	1585.5	1583.2
155°	1626.7	1623.4	1620.0	1619.5	1622.0	1624.6	1627.1	1629.7	1627.1	1624.6	1622.0
157.5°	1657.2	1654.7	1652.4	1652.3	1654.5	1656.6	1658.8	1660.9	1658.8	1656.6	1654.5
160°	1675.8	1674.1	1672.4	1672.4	1674.1	1675.8	1677.4	1679.1	1677.4	1675.8	1674.1
162.5°	1691.4	1690.0	1688.5	1688.6	1690.3	1692.0	1693.7	1695.3	1693.7	1692.0	1690.3
165°	1711.6	1710.8	1710.0	1710.4	1712.1	1713.8	1715.5	1717.2	1715.5	1713.8	1712.1
167.5°	1727.8	1727.0	1726.2	1726.6	1728.3	1730.0	1731.7	1733.4	1731.7	1730.0	1728.3
170°	1736.3	1735.8	1735.2	1735.8	1737.5	1739.2	1740.9	1742.6	1740.9	1739.2	1737.5
172.5°	1742.4	1741.9	1741.3	1741.9	1743.6	1745.3	1747.0	1748.6	1747.0	1745.3	1743.6
175°	1749.0	1748.5	1747.9	1748.6	1750.6	1752.6	1754.5	1756.5	1754.5	1752.6	1750.6
177.5°	1751.2	1751.0	1750.8	1751.4	1753.0	1754.6	1756.2	1757.7	1756.2	1754.6	1753.0
180°	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7



TEST NUMBER: P331519-940

CATALOG NUMBER: S122DIW-S485D1440U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	855.1	853.5	847.8	844.9	840.2	835.6	832.7	834.0	835.1	834.6	833.7
5°	830.5	824.2	814.6	806.2	800.2	789.3	784.6	782.3	780.2	777.9	775.6
7.5°	801.4	791.4	777.6	765.7	754.5	740.8	733.1	728.3	723.5	718.3	713.6
10°	780.6	766.6	752.0	735.3	722.0	709.6	698.7	691.3	684.7	678.3	673.7
12.5°	758.8	742.6	724.5	701.8	687.1	669.4	667.8	654.9	644.4	640.5	635.1
15°	724.0	701.3	678.3	651.4	639.7	623.8	613.8	603.8	594.8	588.4	586.7
17.5°	684.5	655.1	632.3	613.0	593.9	577.5	568.3	560.3	552.9	544.4	543.3
20°	654.3	629.1	604.1	587.1	567.5	550.8	539.5	531.5	525.1	520.1	515.9
22.5°	625.9	598.2	575.3	556.7	537.3	523.9	515.0	507.3	502.0	496.5	492.4
25°	580.1	558.5	533.5	512.6	496.5	487.9	480.5	473.9	470.6	466.9	462.3
27.5°	540.1	516.0	492.7	476.4	462.4	454.7	449.5	445.0	441.8	439.7	437.0
30°	511.8	487.5	469.2	453.3	441.6	433.9	430.6	427.9	424.3	422.9	421.6
32.5°	484.6	462.8	447.1	433.3	422.1	417.1	414.1	411.7	408.8	407.5	404.8
35°	446.2	427.9	412.6	404.9	395.9	391.6	389.3	385.9	383.3	382.0	381.7
37.5°	410.1	394.1	384.1	374.3	370.4	367.7	364.6	362.3	361.5	361.3	361.0
40°	386.6	373.6	364.6	356.7	355.0	351.0	348.3	346.3	346.3	346.7	346.3
42.5°	365.3	353.7	345.7	338.9	336.9	334.5	331.8	331.7	332.3	333.3	332.3
45°	333.1	324.7	319.1	315.7	312.0	309.7	309.3	310.4	310.7	311.0	312.0
47.5°	303.3	297.7	292.7	289.0	287.4	287.0	286.6	288.3	289.9	290.5	292.0
50°	285.7	279.4	275.1	272.8	271.4	270.7	271.4	273.4	274.7	276.4	277.4
52.5°	266.0	261.5	258.6	256.7	256.2	256.6	256.7	259.0	261.2	261.7	262.3
55°	238.8	235.4	234.8	231.8	233.1	232.7	234.4	235.8	237.7	239.8	240.1
57.5°	211.6	208.9	207.1	207.4	207.8	209.3	210.6	213.0	215.2	217.2	217.5
60°	193.5	192.2	191.2	191.2	191.8	193.9	195.5	197.8	199.1	200.5	201.4
62.5°	177.0	175.7	174.6	175.1	176.9	178.1	180.0	181.3	182.6	184.0	184.4
65°	150.9	150.2	151.2	151.9	152.2	153.8	156.2	157.2	158.5	159.2	161.5
67.5°	126.8	127.0	126.8	127.8	129.7	130.1	132.2	134.6	134.9	136.2	137.7
70°	110.6	111.2	111.9	112.5	114.2	114.9	116.5	117.5	118.9	119.8	120.9
72.5°	95.7	95.8	96.5	96.3	97.7	99.2	100.6	101.6	102.9	104.2	105.1
75°	73.6	73.6	74.3	74.6	76.2	77.9	77.6	78.3	79.6	81.0	81.6
77.5°	53.8	53.1	53.8	54.0	54.6	56.0	56.3	57.2	58.8	58.3	59.0
80°	40.9	39.9	40.9	41.3	41.3	43.0	43.0	43.6	44.6	43.6	44.6
82.5°	29.2	28.8	29.5	29.6	30.1	30.1	30.7	30.9	31.8	31.4	31.8
85°	14.6	14.4	14.6	14.4	14.6	15.0	15.0	14.6	14.6	15.3	14.4
87.5°	7.2	7.5	7.8	8.2	8.4	8.6	8.6	8.8	9.1	8.8	9.1
90°	13.6	16.3	18.6	20.9	23.1	25.3	26.8	28.2	29.6	31.0	32.0
92.5°	24.5	24.9	26.0	27.2	28.3	29.4	30.1	30.9	31.7	32.4	32.9
95°	45.2	41.6	43.5	45.5	47.5	49.5	50.8	52.3	53.7	55.1	55.6
97.5°	58.8	48.0	52.5	57.1	61.6	66.2	67.3	68.5	69.6	70.7	71.4
100°	70.0	53.1	57.9	62.7	67.5	72.3	74.5	76.8	79.1	81.3	82.8
102.5°	258.8	234.6	194.6	154.4	114.4	74.3	77.2	80.2	83.1	86.1	87.9
105°	419.4	385.1	308.2	231.2	154.3	77.4	80.4	83.6	86.7	89.8	91.8
107.5°	520.1	477.4	385.1	292.8	200.5	108.3	105.1	102.0	98.8	95.7	94.7
110°	585.5	547.7	466.3	384.9	303.4	221.9	193.8	165.6	137.4	109.2	95.7



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	647.7	640.2	620.2	600.0	579.9	559.8	457.0	354.2	251.4	148.6	97.6
115°	748.4	754.3	761.3	768.4	775.4	782.5	652.0	521.6	391.0	260.6	185.1
117.5°	842.2	847.3	852.1	857.0	861.8	866.7	835.2	803.6	772.0	740.5	691.3
120°	904.6	909.3	914.4	919.4	924.5	929.6	933.0	936.4	939.8	943.2	925.8
122.5°	962.4	967.4	972.9	978.4	983.9	989.4	991.5	993.5	995.6	997.6	994.9
125°	1045.7	1050.3	1055.6	1061.0	1066.3	1071.7	1073.6	1075.6	1077.5	1079.5	1080.9
127.5°	1125.7	1129.7	1133.7	1137.7	1141.7	1145.8	1148.6	1151.5	1154.3	1157.2	1158.8
130°	1177.2	1181.0	1184.1	1187.2	1190.3	1193.4	1196.5	1199.6	1202.7	1205.8	1207.2
132.5°	1225.2	1228.7	1231.8	1234.8	1238.0	1241.1	1243.8	1246.3	1249.0	1251.7	1252.9
135°	1293.9	1297.4	1299.9	1302.4	1305.0	1307.5	1310.4	1313.1	1316.0	1318.8	1319.9
137.5°	1355.1	1358.2	1361.0	1364.0	1366.8	1369.7	1372.4	1375.2	1378.0	1380.7	1381.6
140°	1395.2	1397.8	1401.0	1404.1	1407.2	1410.2	1412.8	1415.3	1417.9	1420.4	1420.9
142.5°	1430.8	1433.6	1437.2	1440.7	1444.2	1447.8	1450.1	1452.4	1454.7	1457.1	1457.5
145°	1478.9	1481.1	1485.9	1490.8	1495.5	1500.3	1502.3	1504.2	1506.2	1508.2	1508.5
147.5°	1525.7	1527.5	1532.2	1537.0	1541.8	1546.5	1547.9	1549.4	1550.9	1552.4	1552.5
150°	1554.5	1555.9	1560.3	1564.9	1569.3	1573.9	1575.6	1577.3	1579.0	1580.6	1580.7
152.5°	1581.1	1582.1	1586.4	1590.6	1594.9	1599.2	1600.9	1602.6	1604.3	1606.0	1605.9
155°	1619.5	1620.0	1623.4	1626.7	1630.1	1633.4	1635.1	1636.8	1638.5	1640.2	1639.9
157.5°	1652.3	1652.4	1654.7	1657.2	1659.5	1661.9	1663.8	1665.7	1667.6	1669.6	1669.4
160°	1672.4	1672.4	1674.1	1675.8	1677.4	1679.1	1680.8	1682.5	1684.2	1685.9	1685.8
162.5°	1688.6	1688.5	1690.0	1691.4	1692.9	1694.3	1696.3	1698.2	1700.1	1702.0	1701.7
165°	1710.4	1710.0	1710.8	1711.6	1712.5	1713.3	1715.4	1717.3	1719.3	1721.3	1721.3
167.5°	1726.6	1726.2	1727.0	1727.8	1728.6	1729.4	1731.3	1733.3	1735.3	1737.2	1737.0
170°	1735.8	1735.2	1735.8	1736.3	1736.9	1737.5	1739.5	1741.4	1743.4	1745.3	1745.1
172.5°	1741.9	1741.3	1741.9	1742.4	1743.0	1743.6	1745.5	1747.5	1749.4	1751.4	1751.1
175°	1748.6	1747.9	1748.5	1749.0	1749.6	1750.2	1752.1	1754.1	1756.0	1758.0	1757.7
177.5°	1751.4	1750.8	1751.0	1751.2	1751.4	1751.7	1753.3	1754.8	1756.4	1758.0	1757.7
180°	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7



TEST NUMBER: P331519-940

CATALOG NUMBER: S122DIW-S485D1440U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	831.1	830.5	830.5	828.1	830.5	830.5	831.1	833.7	834.6	835.1	834.0
5°	771.0	769.9	768.3	769.9	768.3	769.9	771.0	775.6	777.9	780.2	782.3
7.5°	711.5	707.5	706.9	702.9	706.9	707.5	711.5	713.6	718.3	723.5	728.3
10°	668.1	665.4	665.0	658.7	665.0	665.4	668.1	673.7	678.3	684.7	691.3
12.5°	635.0	628.6	629.9	626.2	629.9	628.6	635.0	635.1	640.5	644.4	654.9
15°	577.7	577.7	576.5	570.8	576.5	577.7	577.7	586.7	588.4	594.8	603.8
17.5°	536.7	536.0	532.8	534.4	532.8	536.0	536.7	543.3	544.4	552.9	560.3
20°	512.2	510.1	506.2	506.2	506.2	510.1	512.2	515.9	520.1	525.1	531.5
22.5°	489.0	488.8	484.6	486.0	484.6	488.8	489.0	492.4	496.5	502.0	507.3
25°	461.9	459.2	457.3	458.3	457.3	459.2	461.9	462.3	466.9	470.6	473.9
27.5°	436.2	434.7	434.6	431.9	434.6	434.7	436.2	437.0	439.7	441.8	445.0
30°	421.2	417.9	418.6	417.0	418.6	417.9	421.2	421.6	422.9	424.3	427.9
32.5°	404.2	403.1	402.3	400.9	402.3	403.1	404.2	404.8	407.5	408.8	411.7
35°	380.9	381.3	379.6	380.3	379.6	381.3	380.9	381.7	382.0	383.3	385.9
37.5°	360.7	361.8	361.0	361.1	361.0	361.8	360.7	361.0	361.3	361.5	362.3
40°	347.3	347.3	347.3	348.3	347.3	347.3	347.3	346.3	346.7	346.3	346.3
42.5°	334.6	334.0	333.5	333.4	333.5	334.0	334.6	332.3	333.3	332.3	331.7
45°	312.7	313.7	314.1	312.4	314.1	313.7	312.7	312.0	311.0	310.7	310.4
47.5°	292.9	293.0	292.9	294.4	292.9	293.0	292.9	292.0	290.5	289.9	288.3
50°	279.1	278.4	279.1	278.4	279.1	278.4	279.1	277.4	276.4	274.7	273.4
52.5°	264.4	264.6	264.1	264.0	264.1	264.6	264.4	262.3	261.7	261.2	259.0
55°	241.5	242.1	241.7	241.7	241.7	242.1	241.5	240.1	239.8	237.7	235.8
57.5°	217.7	218.3	218.7	217.2	218.7	218.3	217.7	217.5	217.2	215.2	213.0
60°	201.2	202.8	202.5	201.8	202.5	202.8	201.2	201.4	200.5	199.1	197.8
62.5°	185.9	186.5	186.5	186.4	186.5	186.5	185.9	184.4	184.0	182.6	181.3
65°	162.5	163.2	162.2	163.2	162.2	163.2	162.5	161.5	159.2	158.5	157.2
67.5°	137.2	137.5	138.2	138.7	138.2	137.5	137.2	137.7	136.2	134.9	134.6
70°	121.5	121.2	122.3	123.2	122.3	121.2	121.5	120.9	119.8	118.9	117.5
72.5°	105.0	105.8	105.4	106.2	105.4	105.8	105.0	105.1	104.2	102.9	101.6
75°	81.0	81.9	81.6	82.6	81.6	81.9	81.0	81.6	81.0	79.6	78.3
77.5°	58.5	58.6	58.5	59.0	58.5	58.6	58.5	59.0	58.3	58.8	57.2
80°	44.6	44.0	43.2	44.6	43.2	44.0	44.6	44.6	43.6	44.6	43.6
82.5°	31.0	31.5	30.8	30.8	30.8	31.5	31.0	31.8	31.4	31.8	30.9
85°	14.4	14.0	13.3	13.3	13.3	14.0	14.4	14.4	15.3	14.6	14.6
87.5°	9.2	9.0	9.1	9.0	9.1	9.0	9.2	9.1	8.8	9.1	8.8
90°	32.5	33.1	33.7	34.2	33.7	33.1	32.5	32.0	31.0	29.6	28.2
92.5°	33.3	33.5	33.9	34.2	33.9	33.5	33.3	32.9	32.4	31.7	30.9
95°	55.4	55.1	54.8	54.6	54.8	55.1	55.4	55.6	55.1	53.7	52.3
97.5°	71.8	72.1	72.5	72.8	72.5	72.1	71.8	71.4	70.7	69.6	68.5
100°	83.3	83.8	84.4	85.0	84.4	83.8	83.3	82.8	81.3	79.1	76.8
102.5°	88.7	89.4	90.2	91.0	90.2	89.4	88.7	87.9	86.1	83.1	80.2
105°	93.0	94.2	95.2	96.4	95.2	94.2	93.0	91.8	89.8	86.7	83.6
107.5°	95.8	96.9	98.1	99.2	98.1	96.9	95.8	94.7	95.7	98.8	102.0
110°	96.8	97.9	99.1	100.2	99.1	97.9	96.8	95.7	109.2	137.4	165.6



TEST NUMBER: P331519-940

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	98.5	99.4	100.3	101.2	100.3	99.4	98.5	97.6	148.6	251.4	354.2
115°	164.9	144.5	124.3	104.0	124.3	144.5	164.9	185.1	260.6	391.0	521.6
117.5°	624.6	557.9	491.2	424.6	491.2	557.9	624.6	691.3	740.5	772.0	803.6
120°	887.8	849.7	811.6	773.6	811.6	849.7	887.8	925.8	943.2	939.8	936.4
122.5°	987.5	980.2	972.8	965.4	972.8	980.2	987.5	994.9	997.6	995.6	993.5
125°	1081.8	1082.6	1083.5	1084.3	1083.5	1082.6	1081.8	1080.9	1079.5	1077.5	1075.6
127.5°	1158.9	1159.0	1159.2	1159.4	1159.2	1159.0	1158.9	1158.8	1157.2	1154.3	1151.5
130°	1206.9	1206.7	1206.4	1206.0	1206.4	1206.7	1206.9	1207.2	1205.8	1202.7	1199.6
132.5°	1252.6	1252.3	1252.1	1251.7	1252.1	1252.3	1252.6	1252.9	1251.7	1249.0	1246.3
135°	1319.4	1318.8	1318.2	1317.7	1318.2	1318.8	1319.4	1319.9	1318.8	1316.0	1313.1
137.5°	1380.6	1379.7	1378.8	1377.8	1378.8	1379.7	1380.6	1381.6	1380.7	1378.0	1375.2
140°	1419.6	1418.2	1416.8	1415.3	1416.8	1418.2	1419.6	1420.9	1420.4	1417.9	1415.3
142.5°	1456.1	1454.6	1453.3	1451.9	1453.3	1454.6	1456.1	1457.5	1457.1	1454.7	1452.4
145°	1507.1	1505.7	1504.2	1502.9	1504.2	1505.7	1507.1	1508.5	1508.2	1506.2	1504.2
147.5°	1551.3	1550.2	1548.9	1547.7	1548.9	1550.2	1551.3	1552.5	1552.4	1550.9	1549.4
150°	1579.4	1578.0	1576.5	1575.1	1576.5	1578.0	1579.4	1580.7	1580.6	1579.0	1577.3
152.5°	1604.0	1602.2	1600.4	1598.5	1600.4	1602.2	1604.0	1605.9	1606.0	1604.3	1602.6
155°	1637.7	1635.5	1633.2	1630.9	1633.2	1635.5	1637.7	1639.9	1640.2	1638.5	1636.8
157.5°	1667.2	1665.0	1662.8	1660.6	1662.8	1665.0	1667.2	1669.4	1669.6	1667.6	1665.7
160°	1683.8	1681.8	1679.8	1677.8	1679.8	1681.8	1683.8	1685.8	1685.9	1684.2	1682.5
162.5°	1699.3	1696.9	1694.5	1692.1	1694.5	1696.9	1699.3	1701.7	1702.0	1700.1	1698.2
165°	1719.3	1717.3	1715.4	1713.3	1715.4	1717.3	1719.3	1721.3	1721.3	1719.3	1717.3
167.5°	1734.5	1731.9	1729.4	1726.8	1729.4	1731.9	1734.5	1737.0	1737.2	1735.3	1733.3
170°	1742.6	1740.0	1737.5	1734.9	1737.5	1740.0	1742.6	1745.1	1745.3	1743.4	1741.4
172.5°	1748.6	1746.1	1743.6	1741.0	1743.6	1746.1	1748.6	1751.1	1751.4	1749.4	1747.5
175°	1754.8	1751.9	1749.2	1746.3	1749.2	1751.9	1754.8	1757.7	1758.0	1756.0	1754.1
177.5°	1755.7	1753.7	1751.7	1749.6	1751.7	1753.7	1755.7	1757.7	1758.0	1756.4	1754.8
180°	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7



TEST NUMBER: P331519-940

CATALOG NUMBER: S122DIW-S485D1440U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	832.7	835.6	840.2	844.9	847.8	853.5	855.1	857.7	860.1	865.7	871.6
5°	784.6	789.3	800.2	806.2	814.6	824.2	830.5	837.2	844.5	857.2	868.9
7.5°	733.1	740.8	754.5	765.7	777.6	791.4	801.4	814.6	825.5	843.3	860.4
10°	698.7	709.6	722.0	735.3	752.0	766.6	780.6	797.3	810.6	831.9	851.9
12.5°	667.8	669.4	687.1	701.8	724.5	742.6	758.8	780.2	793.3	818.6	839.6
15°	613.8	623.8	639.7	651.4	678.3	701.3	724.0	746.3	761.3	792.6	820.2
17.5°	568.3	577.5	593.9	613.0	632.3	655.1	684.5	708.0	728.3	764.1	796.8
20°	539.5	550.8	567.5	587.1	604.1	629.1	654.3	681.4	703.3	743.6	781.9
22.5°	515.0	523.9	537.3	556.7	575.3	598.2	625.9	655.2	678.3	721.8	760.6
25°	480.5	487.9	496.5	512.6	533.5	558.5	580.1	612.4	646.0	686.7	733.6
27.5°	449.5	454.7	462.4	476.4	492.7	516.0	540.1	570.7	604.6	648.6	698.2
30°	430.6	433.9	441.6	453.3	469.2	487.5	511.8	541.2	575.8	620.5	669.7
32.5°	414.1	417.1	422.1	433.3	447.1	462.8	484.6	514.0	547.0	590.8	645.4
35°	389.3	391.6	395.9	404.9	412.6	427.9	446.2	472.9	503.8	545.8	602.4
37.5°	364.6	367.7	370.4	374.3	384.1	394.1	410.1	432.6	463.0	505.3	559.3
40°	348.3	351.0	355.0	356.7	364.6	373.6	386.6	407.2	437.9	476.5	529.1
42.5°	331.8	334.5	336.9	338.9	345.7	353.7	365.3	383.1	410.2	447.8	499.9
45°	309.3	309.7	312.0	315.7	319.1	324.7	333.1	348.3	369.3	404.7	451.9
47.5°	286.6	287.0	287.4	289.0	292.7	297.7	303.3	315.8	334.6	362.7	408.8
50°	271.4	270.7	271.4	272.8	275.1	279.4	285.7	294.7	310.0	336.4	378.6
52.5°	256.7	256.6	256.2	256.7	258.6	261.5	266.0	273.7	287.4	311.6	348.8
55°	234.4	232.7	233.1	231.8	234.8	235.4	238.8	245.1	257.1	273.8	308.7
57.5°	210.6	209.3	207.8	207.4	207.1	208.9	211.6	216.6	225.8	240.4	268.8
60°	195.5	193.9	191.8	191.2	191.2	192.2	193.5	197.2	205.8	218.8	242.1
62.5°	180.0	178.1	176.9	175.1	174.6	175.7	177.0	179.6	185.8	198.0	218.1
65°	156.2	153.8	152.2	151.9	151.2	150.2	150.9	153.6	158.5	168.2	184.1
67.5°	132.2	130.1	129.7	127.8	126.8	127.0	126.8	129.1	132.1	140.4	152.3
70°	116.5	114.9	114.2	112.5	111.9	111.2	110.6	112.5	115.6	122.5	132.9
72.5°	100.6	99.2	97.7	96.3	96.5	95.8	95.7	96.8	99.3	105.8	113.7
75°	77.6	77.9	76.2	74.6	74.3	73.6	73.6	74.6	75.6	80.6	86.9
77.5°	56.3	56.0	54.6	54.0	53.8	53.1	53.8	54.4	54.9	58.3	63.0
80°	43.0	43.0	41.3	41.3	40.9	39.9	40.9	40.3	41.6	44.9	48.3
82.5°	30.7	30.1	30.1	29.6	29.5	28.8	29.2	29.9	30.4	32.7	34.7
85°	15.0	15.0	14.6	14.4	14.6	14.4	14.6	15.0	15.3	16.3	18.0
87.5°	8.6	8.6	8.4	8.2	7.8	7.5	7.2	6.9	6.9	6.5	6.2
90°	26.8	25.3	23.1	20.9	18.6	16.3	13.6	10.6	7.5	4.4	1.2
92.5°	30.1	29.4	28.3	27.2	26.0	24.9	24.5	24.8	25.1	25.3	25.6
95°	50.8	49.5	47.5	45.5	43.5	41.6	45.2	54.6	63.8	73.1	82.4
97.5°	67.3	66.2	61.6	57.1	52.5	48.0	58.8	85.0	111.2	137.4	163.6
100°	74.5	72.3	67.5	62.7	57.9	53.1	70.0	108.6	147.2	185.8	224.4
102.5°	77.2	74.3	114.4	154.4	194.6	234.6	258.8	266.9	275.1	283.3	291.4
105°	80.4	77.4	154.3	231.2	308.2	385.1	419.4	410.9	402.4	394.0	385.6
107.5°	105.1	108.3	200.5	292.8	385.1	477.4	520.1	513.3	506.5	499.6	492.8
110°	193.8	221.9	303.4	384.9	466.3	547.7	585.5	579.6	573.6	567.8	561.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	457.0	559.8	579.9	600.0	620.2	640.2	647.7	642.5	637.2	632.0	626.8
115°	652.0	782.5	775.4	768.4	761.3	754.3	748.4	743.6	738.8	734.1	729.2
117.5°	835.2	866.7	861.8	857.0	852.1	847.3	842.2	836.9	831.5	826.2	820.8
120°	933.0	929.6	924.5	919.4	914.4	909.3	904.6	900.4	896.2	892.0	887.8
122.5°	991.5	989.4	983.9	978.4	972.9	967.4	962.4	958.0	953.5	949.0	944.6
125°	1073.6	1071.7	1066.3	1061.0	1055.6	1050.3	1045.7	1042.1	1038.4	1034.7	1031.1
127.5°	1148.6	1145.8	1141.7	1137.7	1133.7	1129.7	1125.7	1121.6	1117.6	1113.5	1109.5
130°	1196.5	1193.4	1190.3	1187.2	1184.1	1181.0	1177.2	1172.7	1168.1	1163.7	1159.1
132.5°	1243.8	1241.1	1238.0	1234.8	1231.8	1228.7	1225.2	1221.4	1217.5	1213.7	1209.9
135°	1310.4	1307.5	1305.0	1302.4	1299.9	1297.4	1293.9	1289.3	1284.9	1280.3	1275.9
137.5°	1372.4	1369.7	1366.8	1364.0	1361.0	1358.2	1355.1	1352.0	1348.9	1345.7	1342.6
140°	1412.8	1410.2	1407.2	1404.1	1401.0	1397.8	1395.2	1392.9	1390.7	1388.4	1386.2
142.5°	1450.1	1447.8	1444.2	1440.7	1437.2	1433.6	1430.8	1428.8	1426.7	1424.7	1422.7
145°	1502.3	1500.3	1495.5	1490.8	1485.9	1481.1	1478.9	1479.2	1479.4	1479.7	1480.1
147.5°	1547.9	1546.5	1541.8	1537.0	1532.2	1527.5	1525.7	1526.8	1527.9	1528.9	1530.0
150°	1575.6	1573.9	1569.3	1564.9	1560.3	1555.9	1554.5	1556.6	1558.5	1560.5	1562.5
152.5°	1600.9	1599.2	1594.9	1590.6	1586.4	1582.1	1581.1	1583.2	1585.5	1587.7	1589.8
155°	1635.1	1633.4	1630.1	1626.7	1623.4	1620.0	1619.5	1622.0	1624.6	1627.1	1629.7
157.5°	1663.8	1661.9	1659.5	1657.2	1654.7	1652.4	1652.3	1654.5	1656.6	1658.8	1660.9
160°	1680.8	1679.1	1677.4	1675.8	1674.1	1672.4	1672.4	1674.1	1675.8	1677.4	1679.1
162.5°	1696.3	1694.3	1692.9	1691.4	1690.0	1688.5	1688.6	1690.3	1692.0	1693.7	1695.3
165°	1715.4	1713.3	1712.5	1711.6	1710.8	1710.0	1710.4	1712.1	1713.8	1715.5	1717.2
167.5°	1731.3	1729.4	1728.6	1727.8	1727.0	1726.2	1726.6	1728.3	1730.0	1731.7	1733.4
170°	1739.5	1737.5	1736.9	1736.3	1735.8	1735.2	1735.8	1737.5	1739.2	1740.9	1742.6
172.5°	1745.5	1743.6	1743.0	1742.4	1741.9	1741.3	1741.9	1743.6	1745.3	1747.0	1748.6
175°	1752.1	1750.2	1749.6	1749.0	1748.5	1747.9	1748.6	1750.6	1752.6	1754.5	1756.5
177.5°	1753.3	1751.7	1751.4	1751.2	1751.0	1750.8	1751.4	1753.0	1754.6	1756.2	1757.7
180°	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	871.0	872.4	876.6	880.9	885.6	887.0	889.1	887.3	886.7	891.8	895.5
5°	873.5	879.5	891.2	901.8	910.8	917.1	923.8	926.5	931.5	938.4	947.1
7.5°	870.7	882.3	900.7	916.2	933.1	945.3	954.8	963.0	972.8	986.1	1000.5
10°	867.5	883.2	905.4	924.4	945.1	960.7	973.7	986.4	1001.0	1019.4	1038.3
12.5°	861.7	880.2	908.1	930.6	957.1	972.5	990.0	1017.3	1033.0	1058.5	1085.2
15°	849.9	870.5	909.5	937.1	967.1	996.4	1028.7	1054.6	1080.7	1095.6	1133.3
17.5°	832.3	862.6	905.8	938.1	976.2	1022.3	1058.5	1088.1	1118.0	1142.3	1161.2
20°	818.2	851.2	900.4	939.1	984.4	1034.0	1075.7	1105.6	1131.6	1151.9	1163.6
22.5°	800.4	841.9	889.8	935.1	992.9	1042.1	1085.7	1109.4	1131.0	1140.9	1145.4
25°	772.2	822.2	876.5	931.7	997.0	1049.0	1089.0	1103.3	1109.6	1099.9	1084.0
27.5°	742.0	797.6	861.1	925.5	994.5	1044.5	1073.1	1070.9	1060.2	1028.9	1003.9
30°	719.3	780.6	848.8	919.1	988.4	1037.0	1053.6	1037.0	1012.7	977.8	942.1
32.5°	695.6	759.0	835.8	910.1	977.2	1019.9	1023.6	994.9	957.3	917.6	873.1
35°	659.7	728.3	811.2	889.8	953.4	980.4	964.4	913.8	869.2	814.9	754.3
37.5°	619.1	694.9	778.0	860.1	917.8	924.9	885.2	831.9	768.9	705.2	633.8
40°	588.8	669.1	754.7	837.5	888.5	881.2	830.5	772.0	697.0	619.1	552.8
42.5°	561.6	641.9	729.1	810.4	851.2	831.1	772.0	700.0	619.5	546.1	485.4
45°	514.5	597.1	686.3	764.9	788.3	752.0	673.7	593.8	514.5	453.3	405.3
47.5°	468.9	550.5	638.8	707.9	716.2	667.4	581.8	499.6	431.5	381.6	347.8
50°	435.2	517.2	604.8	666.4	663.7	604.8	516.8	438.5	381.7	341.3	318.7
52.5°	405.1	482.5	566.7	622.7	608.6	544.3	460.4	390.9	344.1	312.5	292.0
55°	358.3	429.9	509.9	554.8	528.9	457.5	386.6	330.6	296.0	272.4	256.5
57.5°	311.8	379.0	447.4	475.1	446.4	380.6	321.5	280.9	254.9	237.3	226.9
60°	283.0	341.7	402.6	426.6	392.3	333.7	287.0	250.7	229.8	215.4	206.2
62.5°	254.3	306.7	364.3	377.3	345.9	296.4	255.1	224.9	207.7	194.9	186.2
65°	215.2	258.1	301.8	310.4	281.4	243.1	210.4	190.8	175.5	166.2	159.2
67.5°	176.5	210.9	241.8	248.8	223.5	196.9	173.3	156.2	145.8	138.0	132.2
70°	153.6	180.8	206.2	211.8	191.5	167.8	149.9	136.2	126.9	120.2	114.6
72.5°	129.3	152.0	173.1	176.9	160.3	142.2	127.5	116.7	108.5	104.2	98.8
75°	98.9	112.3	128.6	129.6	118.6	107.5	96.2	89.3	84.9	79.6	77.0
77.5°	69.8	80.3	89.6	91.4	84.9	77.4	71.1	65.5	61.9	59.4	57.0
80°	53.3	61.6	65.6	67.9	63.3	58.0	54.3	50.6	48.3	46.6	44.9
82.5°	38.1	43.2	47.0	48.8	46.2	43.1	39.3	37.3	35.5	34.1	33.5
85°	19.4	21.7	24.0	24.6	24.0	22.6	20.7	20.7	19.6	19.4	19.4
87.5°	7.5	9.2	9.8	11.2	11.2	11.7	12.1	12.3	12.6	12.6	12.6
90°	4.4	7.5	10.6	13.6	16.3	18.6	20.9	23.1	25.3	26.8	28.2
92.5°	25.3	25.1	24.8	24.5	24.9	26.0	27.2	28.3	29.4	30.1	30.9
95°	73.1	63.8	54.6	45.2	41.6	43.5	45.5	47.5	49.5	50.8	52.3
97.5°	137.4	111.2	85.0	58.8	48.0	52.5	57.1	61.6	66.2	67.3	68.5
100°	185.8	147.2	108.6	70.0	53.1	57.9	62.7	67.5	72.3	74.5	76.8
102.5°	283.3	275.1	266.9	258.8	234.6	194.6	154.4	114.4	74.3	77.2	80.2
105°	394.0	402.4	410.9	419.4	385.1	308.2	231.2	154.3	77.4	80.4	83.6
107.5°	499.6	506.5	513.3	520.1	477.4	385.1	292.8	200.5	108.3	105.1	102.0
110°	567.8	573.6	579.6	585.5	547.7	466.3	384.9	303.4	221.9	193.8	165.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	632.0	637.2	642.5	647.7	640.2	620.2	600.0	579.9	559.8	457.0	354.2
115°	734.1	738.8	743.6	748.4	754.3	761.3	768.4	775.4	782.5	652.0	521.6
117.5°	826.2	831.5	836.9	842.2	847.3	852.1	857.0	861.8	866.7	835.2	803.6
120°	892.0	896.2	900.4	904.6	909.3	914.4	919.4	924.5	929.6	933.0	936.4
122.5°	949.0	953.5	958.0	962.4	967.4	972.9	978.4	983.9	989.4	991.5	993.5
125°	1034.7	1038.4	1042.1	1045.7	1050.3	1055.6	1061.0	1066.3	1071.7	1073.6	1075.6
127.5°	1113.5	1117.6	1121.6	1125.7	1129.7	1133.7	1137.7	1141.7	1145.8	1148.6	1151.5
130°	1163.7	1168.1	1172.7	1177.2	1181.0	1184.1	1187.2	1190.3	1193.4	1196.5	1199.6
132.5°	1213.7	1217.5	1221.4	1225.2	1228.7	1231.8	1234.8	1238.0	1241.1	1243.8	1246.3
135°	1280.3	1284.9	1289.3	1293.9	1297.4	1299.9	1302.4	1305.0	1307.5	1310.4	1313.1
137.5°	1345.7	1348.9	1352.0	1355.1	1358.2	1361.0	1364.0	1366.8	1369.7	1372.4	1375.2
140°	1388.4	1390.7	1392.9	1395.2	1397.8	1401.0	1404.1	1407.2	1410.2	1412.8	1415.3
142.5°	1424.7	1426.7	1428.8	1430.8	1433.6	1437.2	1440.7	1444.2	1447.8	1450.1	1452.4
145°	1479.7	1479.4	1479.2	1478.9	1481.1	1485.9	1490.8	1495.5	1500.3	1502.3	1504.2
147.5°	1528.9	1527.9	1526.8	1525.7	1527.5	1532.2	1537.0	1541.8	1546.5	1547.9	1549.4
150°	1560.5	1558.5	1556.6	1554.5	1555.9	1560.3	1564.9	1569.3	1573.9	1575.6	1577.3
152.5°	1587.7	1585.5	1583.2	1581.1	1582.1	1586.4	1590.6	1594.9	1599.2	1600.9	1602.6
155°	1627.1	1624.6	1622.0	1619.5	1620.0	1623.4	1626.7	1630.1	1633.4	1635.1	1636.8
157.5°	1658.8	1656.6	1654.5	1652.3	1652.4	1654.7	1657.2	1659.5	1661.9	1663.8	1665.7
160°	1677.4	1675.8	1674.1	1672.4	1672.4	1674.1	1675.8	1677.4	1679.1	1680.8	1682.5
162.5°	1693.7	1692.0	1690.3	1688.6	1688.5	1690.0	1691.4	1692.9	1694.3	1696.3	1698.2
165°	1715.5	1713.8	1712.1	1710.4	1710.0	1710.8	1711.6	1712.5	1713.3	1715.4	1717.3
167.5°	1731.7	1730.0	1728.3	1726.6	1726.2	1727.0	1727.8	1728.6	1729.4	1731.3	1733.3
170°	1740.9	1739.2	1737.5	1735.8	1735.2	1735.8	1736.3	1736.9	1737.5	1739.5	1741.4
172.5°	1747.0	1745.3	1743.6	1741.9	1741.3	1741.9	1742.4	1743.0	1743.6	1745.5	1747.5
175°	1754.5	1752.6	1750.6	1748.6	1747.9	1748.5	1749.0	1749.6	1750.2	1752.1	1754.1
177.5°	1756.2	1754.6	1753.0	1751.4	1750.8	1751.0	1751.2	1751.4	1751.7	1753.3	1754.8
180°	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	898.8	902.5	902.5	903.0	907.2	906.8	906.5
5°	956.4	962.1	962.8	968.8	972.8	971.4	967.8
7.5°	1010.8	1021.4	1029.4	1033.8	1039.1	1042.3	1040.9
10°	1054.0	1069.3	1078.6	1084.9	1092.6	1098.3	1096.3
12.5°	1093.1	1111.4	1124.2	1135.1	1136.0	1143.4	1138.4
15°	1154.2	1173.6	1175.5	1183.6	1189.9	1189.2	1189.5
17.5°	1174.4	1180.6	1181.9	1182.1	1182.1	1179.8	1174.7
20°	1167.2	1164.9	1159.2	1154.9	1147.3	1146.2	1139.6
22.5°	1133.1	1125.7	1111.5	1102.2	1090.2	1087.1	1085.2
25°	1066.0	1049.6	1027.0	1005.4	999.3	987.7	991.0
27.5°	973.8	948.4	923.9	906.3	890.5	873.0	878.0
30°	909.1	880.5	845.9	819.2	802.3	785.6	782.6
32.5°	831.9	789.9	751.3	727.8	701.8	691.3	679.8
35°	698.7	657.7	619.4	586.5	567.5	552.8	539.5
37.5°	578.8	531.7	500.8	474.1	460.4	452.0	454.1
40°	504.5	463.2	440.6	420.3	407.6	401.6	403.0
42.5°	444.3	413.4	394.8	380.8	371.9	368.5	367.7
45°	375.9	358.6	343.3	335.4	331.0	327.3	325.0
47.5°	329.4	315.2	306.6	301.8	298.0	294.4	294.3
50°	301.4	292.0	286.1	281.1	278.0	275.4	277.8
52.5°	280.1	271.5	265.6	261.1	259.9	257.5	257.5
55°	248.4	241.7	237.5	233.4	231.5	230.2	228.5
57.5°	219.6	213.3	209.4	206.8	203.0	201.7	201.2
60°	199.1	194.1	190.1	186.8	185.1	182.5	182.5
62.5°	180.2	175.2	171.5	169.0	166.2	165.1	165.4
65°	152.8	148.8	145.2	142.5	141.9	139.9	140.5
67.5°	127.7	125.0	121.2	119.7	118.4	117.3	116.5
70°	110.9	108.3	106.2	104.2	103.3	103.3	103.3
72.5°	96.8	93.5	92.4	89.9	90.4	89.3	88.3
75°	74.9	72.9	72.0	70.9	69.3	69.3	69.3
77.5°	55.1	54.6	53.3	52.3	51.9	51.5	51.7
80°	42.6	42.3	41.6	41.6	40.9	40.7	39.9
82.5°	32.7	31.9	31.5	31.2	31.1	31.0	30.9
85°	18.6	18.0	18.0	18.3	17.7	17.7	18.0
87.5°	13.1	13.4	13.3	13.5	13.8	13.6	13.7
90°	29.6	31.0	32.0	32.5	33.1	33.7	34.2
92.5°	31.7	32.4	32.9	33.3	33.5	33.9	34.2
95°	53.7	55.1	55.6	55.4	55.1	54.8	54.6
97.5°	69.6	70.7	71.4	71.8	72.1	72.5	72.8
100°	79.1	81.3	82.8	83.3	83.8	84.4	85.0
102.5°	83.1	86.1	87.9	88.7	89.4	90.2	91.0
105°	86.7	89.8	91.8	93.0	94.2	95.2	96.4
107.5°	98.8	95.7	94.7	95.8	96.9	98.1	99.2
110°	137.4	109.2	95.7	96.8	97.9	99.1	100.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	251.4	148.6	97.6	98.5	99.4	100.3	101.2
115°	391.0	260.6	185.1	164.9	144.5	124.3	104.0
117.5°	772.0	740.5	691.3	624.6	557.9	491.2	424.6
120°	939.8	943.2	925.8	887.8	849.7	811.6	773.6
122.5°	995.6	997.6	994.9	987.5	980.2	972.8	965.4
125°	1077.5	1079.5	1080.9	1081.8	1082.6	1083.5	1084.3
127.5°	1154.3	1157.2	1158.8	1158.9	1159.0	1159.2	1159.4
130°	1202.7	1205.8	1207.2	1206.9	1206.7	1206.4	1206.0
132.5°	1249.0	1251.7	1252.9	1252.6	1252.3	1252.1	1251.7
135°	1316.0	1318.8	1319.9	1319.4	1318.8	1318.2	1317.7
137.5°	1378.0	1380.7	1381.6	1380.6	1379.7	1378.8	1377.8
140°	1417.9	1420.4	1420.9	1419.6	1418.2	1416.8	1415.3
142.5°	1454.7	1457.1	1457.5	1456.1	1454.6	1453.3	1451.9
145°	1506.2	1508.2	1508.5	1507.1	1505.7	1504.2	1502.9
147.5°	1550.9	1552.4	1552.5	1551.3	1550.2	1548.9	1547.7
150°	1579.0	1580.6	1580.7	1579.4	1578.0	1576.5	1575.1
152.5°	1604.3	1606.0	1605.9	1604.0	1602.2	1600.4	1598.5
155°	1638.5	1640.2	1639.9	1637.7	1635.5	1633.2	1630.9
157.5°	1667.6	1669.6	1669.4	1667.2	1665.0	1662.8	1660.6
160°	1684.2	1685.9	1685.8	1683.8	1681.8	1679.8	1677.8
162.5°	1700.1	1702.0	1701.7	1699.3	1696.9	1694.5	1692.1
165°	1719.3	1721.3	1721.3	1719.3	1717.3	1715.4	1713.3
167.5°	1735.3	1737.2	1737.0	1734.5	1731.9	1729.4	1726.8
170°	1743.4	1745.3	1745.1	1742.6	1740.0	1737.5	1734.9
172.5°	1749.4	1751.4	1751.1	1748.6	1746.1	1743.6	1741.0
175°	1756.0	1758.0	1757.7	1754.8	1751.9	1749.2	1746.3
177.5°	1756.4	1758.0	1757.7	1755.7	1753.7	1751.7	1749.6
180°	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7

(END OF REPORT)