

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: P333419-830

Luminaire Tested: **S125DIW-S850D1340U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333419-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIW-S850D1340U830-4F0-1E-UDD-A1
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 850 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1340 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7641.2 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.52
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')
CIE Type: General Diffuse

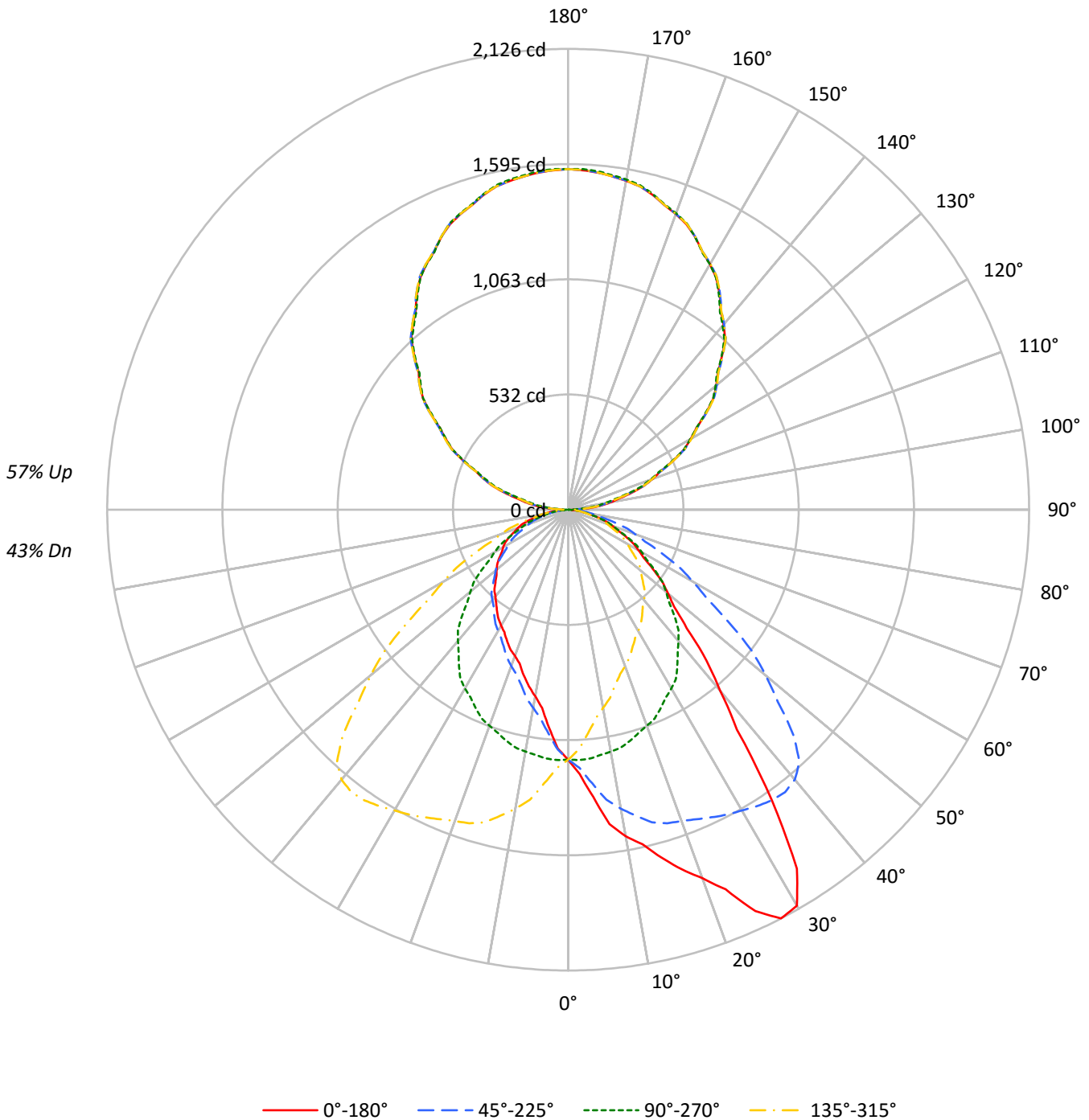
Input Watts (W): 61.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49	43
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42	36
2	88	81	75	70	80	74	69	64	61	58	54	50	47	45	39	37	36	31
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	32	31	26
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	28	26	23
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23	20
6	62	50	42	37	57	46	39	34	39	33	29	32	28	25	25	22	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	27	23	26	22	20	21	18	16	14
9	49	37	30	25	45	35	28	24	29	24	21	24	20	18	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	22	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7447	7447	7447	7447
5°	8624	7472	6543	7472
10°	10033	7433	5732	7433
15°	11106	7379	5288	7379
20°	12432	7292	4931	7292
25°	14564	7195	4757	7195
30°	15731	7099	4606	7099
35°	12934	6918	4507	6918
40°	9193	6668	4398	6668
45°	7063	6330	4337	6330
50°	6028	5910	4326	5910
55°	5368	5499	4365	5499
60°	4841	5052	4476	5052
65°	4473	4600	4592	4600
70°	4067	4132	4658	4132
75°	3591	3638	4616	3638
80°	3020	2964	4225	2964
85°	2393	2134	3409	2134



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	1.5
10°-20°	330.5	4.3
20°-30°	536.7	7.0
30°-40°	654.6	8.6
40°-50°	595.5	7.8
50°-60°	474.4	6.2
60°-70°	330.4	4.3
70°-80°	176.2	2.3
80°-90°	47.9	0.6
90°-100°	105.2	1.4
100°-110°	310.7	4.1
110°-120°	526.3	6.9
120°-130°	692.7	9.1
130°-140°	776.1	10.2
140°-150°	760.7	10.0
150°-160°	638.9	8.4
160°-170°	424.7	5.6
170°-180°	148.6	1.9
0°-30°	978.2	12.8
0°-40°	1632.8	21.4
0°-60°	2702.7	35.4
0°-90°	3257.2	42.6
90°-120°	942.3	12.3
90°-150°	3171.8	41.5
90°-180°	4384.0	57.4
0°-180°	7641.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1153	1153	1153	1153	1153	
5°	1330	1152	1009	1152	1330	134
15°	1661	1104	791	1104	1661	476
25°	2044	1010	668	1010	2044	934
35°	1640	878	572	878	1640	1004
45°	773	693	475	693	773	619
55°	477	488	388	488	477	429
65°	293	301	300	301	293	290
75°	144	146	185	146	144	155
85°	32	29	46	29	32	38
90°	29	1	29	1	29	18
95°	105	80	105	80	105	107
105°	303	279	303	279	303	321
115°	532	527	532	527	532	526
125°	774	769	774	769	774	691
135°	1004	1000	1004	1000	1004	774
145°	1216	1212	1216	1212	1216	759
155°	1386	1386	1386	1386	1386	638
165°	1504	1508	1504	1508	1504	424
175°	1561	1567	1561	1567	1561	148
180°	1571	1571	1571	1571	1571	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1
2.5°	1219.7	1218.0	1216.5	1213.3	1215.7	1209.1	1205.9	1200.4	1193.8	1191.5	1188.7
5°	1330.2	1332.7	1335.1	1324.8	1325.9	1319.0	1303.3	1290.6	1280.3	1267.2	1257.8
7.5°	1463.4	1457.5	1457.1	1450.5	1439.0	1429.8	1413.3	1392.4	1372.2	1349.1	1329.9
10°	1529.9	1530.4	1526.0	1518.2	1506.0	1497.1	1475.6	1455.0	1430.1	1400.7	1379.7
12.5°	1580.1	1582.1	1576.5	1565.9	1560.0	1540.2	1523.3	1498.9	1469.2	1445.8	1413.7
15°	1661.1	1655.7	1651.8	1638.6	1628.3	1607.8	1580.8	1555.4	1523.1	1493.2	1463.4
17.5°	1739.2	1743.5	1736.2	1724.1	1692.2	1668.2	1632.1	1597.2	1557.1	1517.0	1481.4
20°	1808.9	1812.8	1801.6	1780.6	1742.4	1718.3	1670.8	1625.9	1579.3	1528.0	1488.8
22.5°	1895.8	1892.7	1877.5	1845.5	1812.4	1768.1	1716.7	1661.9	1603.6	1545.6	1493.6
25°	2043.8	2023.3	2013.9	1974.3	1930.8	1865.7	1795.2	1715.0	1642.5	1565.7	1499.1
27.5°	2125.8	2119.4	2109.0	2081.4	2035.6	1966.0	1882.9	1785.1	1682.9	1585.9	1498.8
30°	2109.4	2110.4	2111.4	2102.5	2073.2	2020.8	1938.2	1832.9	1711.5	1602.3	1501.6
32.5°	1963.8	1981.6	1998.6	2018.7	2026.9	2016.9	1965.1	1870.1	1745.2	1621.2	1500.0
35°	1640.5	1646.0	1701.2	1756.1	1830.4	1888.2	1926.8	1884.8	1779.5	1637.1	1498.1
37.5°	1279.1	1305.6	1343.9	1405.8	1513.2	1609.3	1733.0	1789.8	1755.9	1642.3	1494.7
40°	1090.4	1114.9	1139.8	1203.0	1293.5	1410.0	1550.5	1670.4	1698.3	1625.9	1482.9
42.5°	944.8	964.1	991.8	1039.3	1115.0	1218.1	1352.4	1509.1	1605.5	1578.1	1458.3
45°	773.3	785.5	807.1	844.7	899.6	980.3	1098.7	1270.1	1419.3	1468.8	1399.8
47.5°	661.9	661.8	678.5	704.6	744.1	812.8	900.3	1034.5	1194.0	1311.9	1306.5
50°	600.0	597.6	610.8	633.3	664.6	710.1	793.8	901.0	1054.2	1187.8	1225.0
52.5°	546.8	547.1	555.2	571.8	598.0	637.0	699.5	796.1	927.0	1064.1	1134.2
55°	476.7	474.8	484.0	495.3	514.3	539.8	584.8	658.7	765.0	900.0	991.1
57.5°	412.5	417.8	421.6	429.4	445.3	462.3	500.3	554.5	638.8	754.7	850.9
60°	374.8	380.3	383.2	391.1	403.8	418.5	447.8	491.9	562.8	662.7	758.1
62.5°	341.2	345.4	346.4	353.5	363.8	378.1	401.2	438.2	494.3	581.6	675.1
65°	292.7	292.7	294.6	302.0	306.9	319.6	337.2	364.1	409.2	477.2	556.9
67.5°	245.9	248.3	247.7	251.0	255.5	265.3	278.0	300.2	333.6	383.2	447.0
70°	215.4	217.3	216.8	219.2	224.1	230.5	240.8	261.8	285.8	328.4	383.2
72.5°	187.9	188.7	187.5	190.7	193.6	199.2	210.7	221.9	244.3	280.2	325.3
75°	143.9	144.9	145.8	147.8	150.7	153.6	159.6	170.8	185.5	212.4	241.3
77.5°	107.8	106.0	108.4	108.1	109.7	112.0	117.2	123.1	135.2	152.2	174.6
80°	81.2	81.7	81.7	82.2	84.6	86.1	90.6	94.9	104.2	117.0	132.6
82.5°	59.3	60.6	59.9	60.7	62.8	63.8	66.3	69.8	75.3	85.3	96.6
85°	32.3	29.9	30.8	31.9	31.9	32.3	34.2	35.7	38.6	42.6	46.9
87.5°	15.3	15.9	16.1	15.9	16.2	15.9	17.2	17.0	17.9	18.8	20.0
90°	29.3	28.6	27.7	26.9	26.1	25.0	23.7	22.2	20.9	19.6	17.6
92.5°	57.7	57.1	56.6	55.9	55.3	54.1	52.3	50.5	48.7	46.9	44.6
95°	105.2	104.6	104.1	103.5	102.9	101.8	99.8	97.9	96.0	94.2	91.4
97.5°	159.5	159.1	158.8	158.4	158.2	157.0	155.2	153.4	151.7	149.9	146.2
100°	200.5	200.0	199.4	198.9	198.3	196.8	194.4	192.0	189.5	187.1	183.5
102.5°	241.6	240.8	240.1	239.3	238.6	236.9	234.1	231.5	228.8	226.2	224.4
105°	303.2	302.4	301.6	300.8	299.9	298.7	297.1	295.5	293.9	292.2	290.6
107.5°	366.3	366.4	366.4	366.5	366.6	366.2	365.3	364.5	363.7	362.9	361.7
110°	413.2	413.5	413.8	414.1	414.3	414.1	413.2	412.5	411.6	410.8	410.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	459.2	459.7	460.2	460.7	461.2	461.2	460.8	460.4	460.1	459.7	458.6
115°	531.9	532.2	532.3	532.6	532.9	533.2	533.5	533.8	534.0	534.3	533.8
117.5°	602.8	603.9	604.9	606.1	607.1	607.6	607.3	607.1	606.9	606.7	606.1
120°	651.7	652.7	653.8	654.9	656.0	656.6	656.6	656.6	656.6	656.6	656.3
122.5°	700.6	701.4	702.3	703.1	704.1	704.6	704.8	705.0	705.2	705.5	704.7
125°	773.9	774.2	774.5	774.8	775.1	775.4	776.0	776.5	777.0	777.6	777.3
127.5°	844.3	844.9	845.5	846.0	846.5	847.0	847.2	847.4	847.7	848.0	847.7
130°	891.3	891.8	892.4	893.0	893.4	893.9	894.2	894.4	894.7	894.9	894.4
132.5°	935.3	936.0	936.8	937.6	938.4	938.9	939.1	939.4	939.7	940.0	940.1
135°	1003.8	1004.8	1006.0	1007.0	1008.1	1008.7	1008.7	1008.7	1008.7	1008.7	1008.4
137.5°	1070.8	1072.1	1073.5	1074.9	1076.2	1076.8	1076.4	1076.1	1075.7	1075.4	1074.9
140°	1113.8	1115.2	1116.5	1117.9	1119.3	1119.6	1119.1	1118.6	1118.0	1117.5	1116.6
142.5°	1154.9	1156.2	1157.6	1159.0	1160.4	1160.8	1160.6	1160.2	1159.9	1159.5	1158.5
145°	1216.5	1217.3	1218.1	1219.0	1219.7	1220.2	1220.2	1220.2	1220.2	1220.2	1219.4
147.5°	1269.1	1270.9	1272.8	1274.6	1276.5	1277.1	1276.4	1275.7	1275.2	1274.5	1273.8
150°	1308.2	1308.7	1309.3	1309.9	1310.4	1310.7	1310.7	1310.7	1310.7	1310.7	1309.6
152.5°	1340.5	1341.4	1342.5	1343.4	1344.4	1344.5	1343.9	1343.2	1342.7	1342.0	1341.5
155°	1386.5	1387.8	1389.2	1390.5	1391.9	1392.0	1390.9	1389.9	1388.7	1387.7	1387.4
157.5°	1424.8	1426.6	1428.4	1430.2	1432.0	1432.4	1431.3	1430.2	1429.1	1428.0	1427.8
160°	1451.2	1452.6	1454.0	1455.4	1456.7	1456.8	1455.8	1454.6	1453.6	1452.5	1452.2
162.5°	1473.8	1475.4	1476.9	1478.5	1480.1	1480.2	1478.8	1477.6	1476.3	1475.0	1474.9
165°	1503.8	1505.4	1507.1	1508.7	1510.3	1510.6	1509.6	1508.4	1507.4	1506.3	1506.0
167.5°	1527.8	1529.5	1531.2	1532.9	1534.6	1534.6	1533.0	1531.3	1529.7	1528.0	1528.0
170°	1540.5	1542.4	1544.4	1546.2	1548.1	1548.2	1546.6	1545.0	1543.4	1541.7	1541.7
172.5°	1551.2	1552.9	1554.6	1556.3	1558.0	1558.0	1556.4	1554.8	1553.1	1551.5	1551.5
175°	1561.3	1563.2	1565.1	1567.0	1568.9	1569.1	1567.4	1565.8	1564.1	1562.5	1562.5
177.5°	1567.2	1568.7	1570.2	1571.7	1573.3	1573.4	1572.1	1570.7	1569.4	1568.1	1568.4
180°	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1
2.5°	1186.4	1183.6	1180.4	1175.0	1168.4	1164.8	1159.3	1155.8	1148.8	1142.9	1136.6
5°	1246.5	1233.8	1222.1	1206.9	1190.2	1179.5	1166.8	1152.5	1137.9	1122.8	1106.1
7.5°	1308.9	1286.4	1261.9	1235.6	1209.8	1186.2	1163.6	1141.3	1120.6	1095.5	1074.3
10°	1350.8	1322.4	1292.0	1256.3	1221.6	1191.3	1160.5	1133.5	1106.1	1076.8	1050.7
12.5°	1392.7	1354.9	1312.0	1272.8	1231.0	1194.4	1158.1	1123.7	1089.3	1056.8	1026.5
15°	1422.3	1388.9	1349.3	1293.5	1246.5	1196.2	1148.2	1103.6	1062.1	1025.9	987.7
17.5°	1441.7	1398.8	1356.3	1302.8	1241.1	1184.8	1130.5	1079.5	1032.6	986.7	949.9
20°	1445.3	1401.2	1356.7	1304.3	1241.1	1176.6	1122.3	1061.0	1010.7	963.2	918.1
22.5°	1444.1	1394.2	1345.7	1291.8	1230.2	1170.7	1105.0	1042.6	988.0	941.2	894.3
25°	1433.0	1379.7	1319.0	1264.7	1204.0	1140.9	1074.3	1009.7	953.9	900.5	854.0
27.5°	1423.8	1354.6	1285.9	1222.6	1163.9	1106.1	1042.4	976.2	914.4	860.3	816.4
30°	1412.5	1336.6	1259.2	1193.2	1133.0	1076.8	1016.5	952.0	887.3	834.4	787.5
32.5°	1402.3	1313.9	1232.3	1160.4	1096.6	1041.9	986.4	924.9	861.5	807.9	760.8
35°	1382.6	1280.3	1186.8	1105.6	1037.6	981.3	934.8	877.5	819.3	767.4	722.4
37.5°	1357.6	1236.2	1136.0	1050.7	976.2	916.9	873.6	829.6	773.7	723.8	683.1
40°	1338.0	1204.9	1098.7	1011.6	934.3	872.6	832.5	790.9	744.4	698.0	654.9
42.5°	1313.4	1176.8	1061.2	967.4	890.8	830.8	788.6	753.3	712.3	668.9	629.0
45°	1268.1	1125.7	1000.4	899.6	822.2	763.0	719.4	693.1	662.2	621.0	587.3
47.5°	1201.5	1064.3	934.7	830.7	750.8	696.0	655.2	629.8	608.0	577.5	546.9
50°	1142.3	1018.5	887.3	784.0	704.3	648.9	611.3	588.2	569.7	546.2	520.3
52.5°	1076.1	960.9	840.7	738.7	659.7	605.1	568.3	548.0	532.5	515.7	490.1
55°	971.0	873.2	761.6	664.6	591.7	538.4	506.1	488.4	475.7	463.0	447.3
57.5°	855.2	778.6	679.8	591.3	524.1	475.5	445.4	428.2	418.4	411.8	402.6
60°	773.7	708.2	623.0	542.2	476.7	433.7	404.3	391.1	382.8	377.3	370.5
62.5°	698.2	644.4	565.4	491.7	434.4	393.7	367.5	354.7	346.7	344.0	338.4
65°	586.8	545.3	480.1	419.0	370.0	335.3	313.2	301.0	296.1	293.1	293.7
67.5°	477.1	451.8	399.4	347.3	308.2	279.1	261.5	252.0	249.6	245.7	245.6
70°	410.1	391.1	347.0	301.5	266.7	244.2	228.6	218.8	216.3	214.3	213.9
72.5°	351.0	334.3	296.1	259.6	228.4	208.6	195.7	189.8	185.8	184.6	184.5
75°	263.8	254.5	224.1	195.3	173.7	160.0	151.3	145.8	142.9	142.4	142.9
77.5°	187.6	179.5	160.1	139.7	126.1	115.7	108.3	106.4	103.1	103.2	102.6
80°	140.9	135.5	123.4	107.2	96.0	87.1	83.2	79.7	78.8	77.3	78.8
82.5°	102.2	96.4	88.1	77.9	68.5	63.2	59.3	58.2	57.7	56.9	57.3
85°	50.4	50.9	46.0	38.2	34.2	31.3	28.8	28.8	28.4	27.9	28.4
87.5°	20.4	19.2	17.2	15.6	13.3	11.7	10.8	10.8	10.1	10.1	10.9
90°	15.7	13.9	12.0	9.9	7.7	5.6	3.4	1.2	3.4	5.6	7.7
92.5°	42.3	40.0	37.6	35.6	34.1	32.6	31.1	29.6	31.1	32.6	34.1
95°	88.7	86.0	83.3	81.6	81.1	80.6	80.0	79.5	80.0	80.6	81.1
97.5°	142.4	138.6	134.9	132.9	132.7	132.5	132.2	132.1	132.2	132.5	132.7
100°	180.0	176.4	173.0	171.2	171.2	171.2	171.2	171.2	171.2	171.2	171.2
102.5°	222.6	220.8	219.0	217.5	216.5	215.4	214.3	213.2	214.3	215.4	216.5
105°	289.0	287.3	285.7	284.2	282.9	281.4	280.1	278.8	280.1	281.4	282.9
107.5°	360.3	359.1	357.9	356.6	355.2	353.8	352.5	351.1	352.5	353.8	355.2
110°	409.2	408.4	407.6	406.4	405.1	403.8	402.4	401.1	402.4	403.8	405.1



TEST NUMBER: P333419-830

CATALOG NUMBER: S125DIW-S850D1340U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	457.6	456.6	455.6	454.7	454.0	453.3	452.6	451.9	452.6	453.3	454.0
115°	533.2	532.6	532.2	531.3	530.2	529.1	528.0	527.0	528.0	529.1	530.2
117.5°	605.7	605.2	604.7	604.3	603.7	603.2	602.8	602.3	602.8	603.2	603.7
120°	656.0	655.7	655.4	654.7	653.3	652.0	650.5	649.2	650.5	652.0	653.3
122.5°	704.1	703.3	702.7	702.0	701.5	701.1	700.6	700.1	700.6	701.1	701.5
125°	777.0	776.7	776.5	775.5	773.9	772.3	770.6	769.0	770.6	772.3	773.9
127.5°	847.3	847.1	846.7	846.1	845.2	844.2	843.3	842.4	843.3	844.2	845.2
130°	893.9	893.3	892.8	891.8	890.5	889.1	887.8	886.4	887.8	889.1	890.5
132.5°	940.2	940.3	940.4	939.3	937.1	934.9	932.6	930.4	932.6	934.9	937.1
135°	1008.1	1007.9	1007.6	1006.6	1005.0	1003.3	1001.7	1000.1	1001.7	1003.3	1005.0
137.5°	1074.2	1073.7	1073.0	1072.0	1070.4	1068.8	1067.2	1065.6	1067.2	1068.8	1070.4
140°	1115.9	1115.0	1114.2	1113.1	1111.8	1110.4	1109.1	1107.7	1109.1	1110.4	1111.8
142.5°	1157.4	1156.4	1155.4	1154.3	1153.2	1152.1	1150.9	1149.8	1150.9	1152.1	1153.2
145°	1218.5	1217.8	1216.9	1216.0	1214.8	1213.8	1212.7	1211.6	1212.7	1213.8	1214.8
147.5°	1273.2	1272.5	1271.9	1271.2	1270.6	1270.1	1269.4	1268.9	1269.4	1270.1	1270.6
150°	1308.5	1307.4	1306.3	1305.9	1306.2	1306.5	1306.7	1307.0	1306.7	1306.5	1306.2
152.5°	1341.0	1340.7	1340.2	1339.8	1339.4	1339.1	1338.7	1338.3	1338.7	1339.1	1339.4
155°	1387.1	1386.9	1386.6	1386.5	1386.5	1386.5	1386.5	1386.5	1386.5	1386.5	1386.5
157.5°	1427.5	1427.2	1426.9	1427.1	1427.7	1428.3	1428.9	1429.5	1428.9	1428.3	1427.7
160°	1452.0	1451.7	1451.4	1451.7	1452.5	1453.3	1454.2	1454.9	1454.2	1453.3	1452.5
162.5°	1474.9	1474.8	1474.8	1475.1	1475.6	1476.2	1476.9	1477.4	1476.9	1476.2	1475.6
165°	1505.7	1505.4	1505.2	1505.3	1505.9	1506.4	1506.9	1507.5	1506.9	1506.4	1505.9
167.5°	1528.0	1528.0	1528.0	1528.6	1529.7	1530.8	1531.8	1533.0	1531.8	1530.8	1529.7
170°	1541.7	1541.7	1541.7	1542.3	1543.4	1544.5	1545.6	1546.6	1545.6	1544.5	1543.4
172.5°	1551.5	1551.5	1551.5	1552.1	1553.1	1554.3	1555.3	1556.4	1555.3	1554.3	1553.1
175°	1562.5	1562.5	1562.5	1563.1	1564.1	1565.3	1566.3	1567.4	1566.3	1565.3	1564.1
177.5°	1568.6	1568.8	1569.1	1569.5	1570.5	1571.3	1572.2	1573.0	1572.2	1571.3	1570.5
180°	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1



TEST NUMBER: P333419-830

CATALOG NUMBER: S125DIW-S850D1340U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1
2.5°	1133.1	1128.8	1125.3	1117.5	1113.1	1107.3	1102.6	1107.7	1102.2	1104.6	1101.0
5°	1097.8	1084.1	1074.3	1060.1	1047.8	1036.6	1028.3	1026.8	1022.8	1021.0	1015.0
7.5°	1055.3	1038.1	1021.3	1002.8	987.0	971.1	960.9	952.5	947.0	939.6	934.6
10°	1030.2	1007.2	987.7	965.2	945.6	928.4	914.7	907.9	901.5	892.2	888.8
12.5°	999.3	975.5	951.6	927.6	908.8	889.7	877.9	867.5	863.2	852.6	851.6
15°	962.2	926.5	903.0	878.5	852.5	836.9	827.1	815.9	811.0	803.6	798.2
17.5°	917.9	886.1	856.7	831.3	809.1	795.9	783.7	776.0	767.6	762.8	754.0
20°	885.9	855.5	826.1	799.2	782.1	766.9	757.1	749.8	741.0	738.6	729.7
22.5°	858.8	825.4	797.2	774.6	755.8	738.8	728.1	723.2	717.1	709.5	707.8
25°	814.9	780.1	756.2	733.7	717.0	701.3	694.0	687.7	681.7	676.4	674.4
27.5°	776.9	745.8	717.4	697.0	682.6	668.3	661.8	654.0	649.8	645.5	640.2
30°	750.3	718.5	693.5	673.9	658.3	645.5	638.7	633.3	629.4	625.5	622.5
32.5°	722.8	693.4	669.2	650.1	634.4	624.8	618.7	614.9	610.6	605.9	602.2
35°	686.6	654.3	630.8	614.3	602.0	594.7	587.8	584.4	579.5	579.5	575.5
37.5°	645.8	617.9	597.2	582.0	571.1	564.5	557.0	554.7	551.6	549.5	548.2
40°	621.6	595.6	576.1	560.9	549.1	543.8	537.9	534.0	532.0	529.5	528.6
42.5°	596.5	571.7	553.0	538.9	528.8	524.1	518.7	515.9	512.0	508.8	508.2
45°	558.5	534.4	517.4	506.1	497.3	491.9	488.4	482.6	480.6	476.7	476.2
47.5°	522.3	499.3	482.5	473.3	465.5	461.1	455.7	449.9	447.6	445.6	445.4
50°	495.3	474.3	458.5	449.8	442.4	436.1	430.6	426.8	425.3	425.3	426.3
52.5°	467.9	450.0	436.7	425.9	419.0	412.2	407.2	404.8	402.6	404.9	406.7
55°	427.7	409.6	399.8	389.6	382.8	374.8	372.5	371.5	370.0	373.9	375.9
57.5°	385.3	372.6	361.1	350.9	344.8	340.3	337.0	336.3	339.0	340.9	347.3
60°	358.3	343.6	333.3	325.5	318.1	315.2	314.2	313.2	315.2	320.6	328.9
62.5°	328.5	316.6	305.5	299.6	294.3	289.4	289.2	289.7	293.7	299.8	308.1
65°	284.8	274.6	267.2	260.3	256.0	253.1	254.0	256.0	260.3	268.7	278.0
67.5°	240.5	233.5	226.9	221.3	217.1	217.1	218.1	221.0	226.2	235.8	244.3
70°	211.9	204.1	198.7	196.2	192.8	190.9	193.8	198.7	203.1	211.9	219.2
72.5°	183.3	176.7	172.5	170.8	169.4	167.8	168.7	174.0	180.0	188.8	197.4
75°	140.9	138.5	135.5	133.7	132.1	133.1	134.1	139.0	143.9	153.2	163.0
77.5°	102.8	100.3	98.6	98.1	97.3	97.7	100.6	104.2	109.0	115.7	123.1
80°	77.9	76.8	75.9	75.4	75.4	75.9	79.7	82.2	86.6	93.0	98.9
82.5°	56.6	56.1	55.9	55.8	56.2	56.3	58.6	61.8	65.5	70.3	75.4
85°	29.9	28.8	30.3	30.8	29.9	31.3	32.3	34.2	35.7	38.2	40.6
87.5°	11.8	13.0	12.9	13.8	14.1	15.3	15.2	17.0	18.0	19.1	18.9
90°	9.9	12.0	13.9	15.7	17.6	19.6	20.9	22.2	23.7	25.0	26.1
92.5°	35.6	37.6	40.0	42.3	44.6	46.9	48.7	50.5	52.3	54.1	55.3
95°	81.6	83.3	86.0	88.7	91.4	94.2	96.0	97.9	99.8	101.8	102.9
97.5°	132.9	134.9	138.6	142.4	146.2	149.9	151.7	153.4	155.2	157.0	158.2
100°	171.2	173.0	176.4	180.0	183.5	187.1	189.5	192.0	194.4	196.8	198.3
102.5°	217.5	219.0	220.8	222.6	224.4	226.2	228.8	231.5	234.1	236.9	238.6
105°	284.2	285.7	287.3	289.0	290.6	292.2	293.9	295.5	297.1	298.7	299.9
107.5°	356.6	357.9	359.1	360.3	361.7	362.9	363.7	364.5	365.3	366.2	366.6
110°	406.4	407.6	408.4	409.2	410.0	410.8	411.6	412.5	413.2	414.1	414.3



TEST NUMBER: P333419-830

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	454.7	455.6	456.6	457.6	458.6	459.7	460.1	460.4	460.8	461.2	461.2
115°	531.3	532.2	532.6	533.2	533.8	534.3	534.0	533.8	533.5	533.2	532.9
117.5°	604.3	604.7	605.2	605.7	606.1	606.7	606.9	607.1	607.3	607.6	607.1
120°	654.7	655.4	655.7	656.0	656.3	656.6	656.6	656.6	656.6	656.6	656.0
122.5°	702.0	702.7	703.3	704.1	704.7	705.5	705.2	705.0	704.8	704.6	704.1
125°	775.5	776.5	776.7	777.0	777.3	777.6	777.0	776.5	776.0	775.4	775.1
127.5°	846.1	846.7	847.1	847.3	847.7	848.0	847.7	847.4	847.2	847.0	846.5
130°	891.8	892.8	893.3	893.9	894.4	894.9	894.7	894.4	894.2	893.9	893.4
132.5°	939.3	940.4	940.3	940.2	940.1	940.0	939.7	939.4	939.1	938.9	938.4
135°	1006.6	1007.6	1007.9	1008.1	1008.4	1008.7	1008.7	1008.7	1008.7	1008.7	1008.1
137.5°	1072.0	1073.0	1073.7	1074.2	1074.9	1075.4	1075.7	1076.1	1076.4	1076.8	1076.2
140°	1113.1	1114.2	1115.0	1115.9	1116.6	1117.5	1118.0	1118.6	1119.1	1119.6	1119.3
142.5°	1154.3	1155.4	1156.4	1157.4	1158.5	1159.5	1159.9	1160.2	1160.6	1160.8	1160.4
145°	1216.0	1216.9	1217.8	1218.5	1219.4	1220.2	1220.2	1220.2	1220.2	1220.2	1219.7
147.5°	1271.2	1271.9	1272.5	1273.2	1273.8	1274.5	1275.2	1275.7	1276.4	1277.1	1276.5
150°	1305.9	1306.3	1307.4	1308.5	1309.6	1310.7	1310.7	1310.7	1310.7	1310.7	1310.4
152.5°	1339.8	1340.2	1340.7	1341.0	1341.5	1342.0	1342.7	1343.2	1343.9	1344.5	1344.4
155°	1386.5	1386.6	1386.9	1387.1	1387.4	1387.7	1388.7	1389.9	1390.9	1392.0	1391.9
157.5°	1427.1	1426.9	1427.2	1427.5	1427.8	1428.0	1429.1	1430.2	1431.3	1432.4	1432.0
160°	1451.7	1451.4	1451.7	1452.0	1452.2	1452.5	1453.6	1454.6	1455.8	1456.8	1456.7
162.5°	1475.1	1474.8	1474.8	1474.9	1474.9	1475.0	1476.3	1477.6	1478.8	1480.2	1480.1
165°	1505.3	1505.2	1505.4	1505.7	1506.0	1506.3	1507.4	1508.4	1509.6	1510.6	1510.3
167.5°	1528.6	1528.0	1528.0	1528.0	1528.0	1528.0	1529.7	1531.3	1533.0	1534.6	1534.6
170°	1542.3	1541.7	1541.7	1541.7	1541.7	1541.7	1543.4	1545.0	1546.6	1548.2	1548.1
172.5°	1552.1	1551.5	1551.5	1551.5	1551.5	1551.5	1553.1	1554.8	1556.4	1558.0	1558.0
175°	1563.1	1562.5	1562.5	1562.5	1562.5	1562.5	1564.1	1565.8	1567.4	1569.1	1568.9
177.5°	1569.5	1569.1	1568.8	1568.6	1568.4	1568.1	1569.4	1570.7	1572.1	1573.4	1573.3
180°	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1



TEST NUMBER: P333419-830

CATALOG NUMBER: S125DIW-S850D1340U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1
2.5°	1098.6	1101.4	1099.0	1102.2	1099.0	1101.4	1098.6	1101.0	1104.6	1102.2	1107.7
5°	1012.6	1008.2	1011.2	1009.2	1011.2	1008.2	1012.6	1015.0	1021.0	1022.8	1026.8
7.5°	933.1	928.9	924.2	921.9	924.2	928.9	933.1	934.6	939.6	947.0	952.5
10°	883.4	878.0	877.5	874.1	877.5	878.0	883.4	888.8	892.2	901.5	907.9
12.5°	847.0	842.0	836.4	835.0	836.4	842.0	847.0	851.6	852.6	863.2	867.5
15°	795.3	791.4	788.0	790.9	788.0	791.4	795.3	798.2	803.6	811.0	815.9
17.5°	752.3	749.1	748.5	744.9	748.5	749.1	752.3	754.0	762.8	767.6	776.0
20°	725.3	722.8	723.9	717.5	723.9	722.8	725.3	729.7	738.6	741.0	749.8
22.5°	703.8	699.0	698.4	697.1	698.4	699.0	703.8	707.8	709.5	717.1	723.2
25°	670.1	667.6	665.2	667.6	665.2	667.6	670.1	674.4	676.4	681.7	687.7
27.5°	640.6	637.6	637.0	637.3	637.0	637.6	640.6	640.2	645.5	649.8	654.0
30°	622.5	617.6	618.1	617.6	618.1	617.6	622.5	622.5	625.5	629.4	633.3
32.5°	602.9	599.6	599.0	598.0	599.0	599.6	602.9	602.2	605.9	610.6	614.9
35°	574.1	574.1	571.7	571.7	571.7	574.1	574.1	575.5	579.5	579.5	584.4
37.5°	547.0	546.5	545.0	545.3	545.0	546.5	547.0	548.2	549.5	551.6	554.7
40°	526.6	526.1	524.6	521.7	524.6	526.1	526.6	528.6	529.5	532.0	534.0
42.5°	507.0	505.4	504.7	503.7	504.7	505.4	507.0	508.2	508.8	512.0	515.9
45°	476.2	476.2	475.2	474.8	475.2	476.2	476.2	476.2	476.7	480.6	482.6
47.5°	446.3	447.1	449.0	448.7	449.0	447.1	446.3	445.4	445.6	447.6	449.9
50°	428.2	428.8	430.2	430.6	430.2	428.8	428.2	426.3	425.3	425.3	426.8
52.5°	408.3	411.1	412.9	412.6	412.9	411.1	408.3	406.7	404.9	402.6	404.8
55°	380.3	383.7	387.1	387.7	387.1	383.7	380.3	375.9	373.9	370.0	371.5
57.5°	352.6	357.4	361.0	362.1	361.0	357.4	352.6	347.3	340.9	339.0	336.3
60°	333.8	340.2	344.6	346.5	344.6	340.2	333.8	328.9	320.6	315.2	313.2
62.5°	315.8	322.9	327.3	327.7	327.3	322.9	315.8	308.1	299.8	293.7	289.7
65°	286.3	293.7	297.6	300.5	297.6	293.7	286.3	278.0	268.7	260.3	256.0
67.5°	254.6	261.9	266.3	268.6	266.3	261.9	254.6	244.3	235.8	226.2	221.0
70°	231.5	238.8	244.7	246.7	244.7	238.8	231.5	219.2	211.9	203.1	198.7
72.5°	208.8	215.4	220.1	222.3	220.1	215.4	208.8	197.4	188.8	180.0	174.0
75°	169.4	178.1	182.6	185.0	182.6	178.1	169.4	163.0	153.2	143.9	139.0
77.5°	130.5	138.6	141.3	142.5	141.3	138.6	130.5	123.1	115.7	109.0	104.2
80°	104.7	109.6	113.0	113.6	113.0	109.6	104.7	98.9	93.0	86.6	82.2
82.5°	80.5	84.5	85.7	86.9	85.7	84.5	80.5	75.4	70.3	65.5	61.8
85°	44.0	46.0	46.5	46.0	46.5	46.0	44.0	40.6	38.2	35.7	34.2
87.5°	19.9	19.6	19.8	20.7	19.8	19.6	19.9	18.9	19.1	18.0	17.0
90°	26.9	27.7	28.6	29.3	28.6	27.7	26.9	26.1	25.0	23.7	22.2
92.5°	55.9	56.6	57.1	57.7	57.1	56.6	55.9	55.3	54.1	52.3	50.5
95°	103.5	104.1	104.6	105.2	104.6	104.1	103.5	102.9	101.8	99.8	97.9
97.5°	158.4	158.8	159.1	159.5	159.1	158.8	158.4	158.2	157.0	155.2	153.4
100°	198.9	199.4	200.0	200.5	200.0	199.4	198.9	198.3	196.8	194.4	192.0
102.5°	239.3	240.1	240.8	241.6	240.8	240.1	239.3	238.6	236.9	234.1	231.5
105°	300.8	301.6	302.4	303.2	302.4	301.6	300.8	299.9	298.7	297.1	295.5
107.5°	366.5	366.4	366.4	366.3	366.4	366.4	366.5	366.6	366.2	365.3	364.5
110°	414.1	413.8	413.5	413.2	413.5	413.8	414.1	414.3	414.1	413.2	412.5



TEST NUMBER: P333419-830

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	460.7	460.2	459.7	459.2	459.7	460.2	460.7	461.2	461.2	460.8	460.4
115°	532.6	532.3	532.2	531.9	532.2	532.3	532.6	532.9	533.2	533.5	533.8
117.5°	606.1	604.9	603.9	602.8	603.9	604.9	606.1	607.1	607.6	607.3	607.1
120°	654.9	653.8	652.7	651.7	652.7	653.8	654.9	656.0	656.6	656.6	656.6
122.5°	703.1	702.3	701.4	700.6	701.4	702.3	703.1	704.1	704.6	704.8	705.0
125°	774.8	774.5	774.2	773.9	774.2	774.5	774.8	775.1	775.4	776.0	776.5
127.5°	846.0	845.5	844.9	844.3	844.9	845.5	846.0	846.5	847.0	847.2	847.4
130°	893.0	892.4	891.8	891.3	891.8	892.4	893.0	893.4	893.9	894.2	894.4
132.5°	937.6	936.8	936.0	935.3	936.0	936.8	937.6	938.4	938.9	939.1	939.4
135°	1007.0	1006.0	1004.8	1003.8	1004.8	1006.0	1007.0	1008.1	1008.7	1008.7	1008.7
137.5°	1074.9	1073.5	1072.1	1070.8	1072.1	1073.5	1074.9	1076.2	1076.8	1076.4	1076.1
140°	1117.9	1116.5	1115.2	1113.8	1115.2	1116.5	1117.9	1119.3	1119.6	1119.1	1118.6
142.5°	1159.0	1157.6	1156.2	1154.9	1156.2	1157.6	1159.0	1160.4	1160.8	1160.6	1160.2
145°	1219.0	1218.1	1217.3	1216.5	1217.3	1218.1	1219.0	1219.7	1220.2	1220.2	1220.2
147.5°	1274.6	1272.8	1270.9	1269.1	1270.9	1272.8	1274.6	1276.5	1277.1	1276.4	1275.7
150°	1309.9	1309.3	1308.7	1308.2	1308.7	1309.3	1309.9	1310.4	1310.7	1310.7	1310.7
152.5°	1343.4	1342.5	1341.4	1340.5	1341.4	1342.5	1343.4	1344.4	1344.5	1343.9	1343.2
155°	1390.5	1389.2	1387.8	1386.5	1387.8	1389.2	1390.5	1391.9	1392.0	1390.9	1389.9
157.5°	1430.2	1428.4	1426.6	1424.8	1426.6	1428.4	1430.2	1432.0	1432.4	1431.3	1430.2
160°	1455.4	1454.0	1452.6	1451.2	1452.6	1454.0	1455.4	1456.7	1456.8	1455.8	1454.6
162.5°	1478.5	1476.9	1475.4	1473.8	1475.4	1476.9	1478.5	1480.1	1480.2	1478.8	1477.6
165°	1508.7	1507.1	1505.4	1503.8	1505.4	1507.1	1508.7	1510.3	1510.6	1509.6	1508.4
167.5°	1532.9	1531.2	1529.5	1527.8	1529.5	1531.2	1532.9	1534.6	1534.6	1533.0	1531.3
170°	1546.2	1544.4	1542.4	1540.5	1542.4	1544.4	1546.2	1548.1	1548.2	1546.6	1545.0
172.5°	1556.3	1554.6	1552.9	1551.2	1552.9	1554.6	1556.3	1558.0	1558.0	1556.4	1554.8
175°	1567.0	1565.1	1563.2	1561.3	1563.2	1565.1	1567.0	1568.9	1569.1	1567.4	1565.8
177.5°	1571.7	1570.2	1568.7	1567.2	1568.7	1570.2	1571.7	1573.3	1573.4	1572.1	1570.7
180°	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1



TEST NUMBER: P333419-830

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1
2.5°	1102.6	1107.3	1113.1	1117.5	1125.3	1128.8	1133.1	1136.6	1142.9	1148.8	1155.8
5°	1028.3	1036.6	1047.8	1060.1	1074.3	1084.1	1097.8	1106.1	1122.8	1137.9	1152.5
7.5°	960.9	971.1	987.0	1002.8	1021.3	1038.1	1055.3	1074.3	1095.5	1120.6	1141.3
10°	914.7	928.4	945.6	965.2	987.7	1007.2	1030.2	1050.7	1076.8	1106.1	1133.5
12.5°	877.9	889.7	908.8	927.6	951.6	975.5	999.3	1026.5	1056.8	1089.3	1123.7
15°	827.1	836.9	852.5	878.5	903.0	926.5	962.2	987.7	1025.9	1062.1	1103.6
17.5°	783.7	795.9	809.1	831.3	856.7	886.1	917.9	949.9	986.7	1032.6	1079.5
20°	757.1	766.9	782.1	799.2	826.1	855.5	885.9	918.1	963.2	1010.7	1061.0
22.5°	728.1	738.8	755.8	774.6	797.2	825.4	858.8	894.3	941.2	988.0	1042.6
25°	694.0	701.3	717.0	733.7	756.2	780.1	814.9	854.0	900.5	953.9	1009.7
27.5°	661.8	668.3	682.6	697.0	717.4	745.8	776.9	816.4	860.3	914.4	976.2
30°	638.7	645.5	658.3	673.9	693.5	718.5	750.3	787.5	834.4	887.3	952.0
32.5°	618.7	624.8	634.4	650.1	669.2	693.4	722.8	760.8	807.9	861.5	924.9
35°	587.8	594.7	602.0	614.3	630.8	654.3	686.6	722.4	767.4	819.3	877.5
37.5°	557.0	564.5	571.1	582.0	597.2	617.9	645.8	683.1	723.8	773.7	829.6
40°	537.9	543.8	549.1	560.9	576.1	595.6	621.6	654.9	698.0	744.4	790.9
42.5°	518.7	524.1	528.8	538.9	553.0	571.7	596.5	629.0	668.9	712.3	753.3
45°	488.4	491.9	497.3	506.1	517.4	534.4	558.5	587.3	621.0	662.2	693.1
47.5°	455.7	461.1	465.5	473.3	482.5	499.3	522.3	546.9	577.5	608.0	629.8
50°	430.6	436.1	442.4	449.8	458.5	474.3	495.3	520.3	546.2	569.7	588.2
52.5°	407.2	412.2	419.0	425.9	436.7	450.0	467.9	490.1	515.7	532.5	548.0
55°	372.5	374.8	382.8	389.6	399.8	409.6	427.7	447.3	463.0	475.7	488.4
57.5°	337.0	340.3	344.8	350.9	361.1	372.6	385.3	402.6	411.8	418.4	428.2
60°	314.2	315.2	318.1	325.5	333.3	343.6	358.3	370.5	377.3	382.8	391.1
62.5°	289.2	289.4	294.3	299.6	305.5	316.6	328.5	338.4	344.0	346.7	354.7
65°	254.0	253.1	256.0	260.3	267.2	274.6	284.8	293.7	293.1	296.1	301.0
67.5°	218.1	217.1	217.1	221.3	226.9	233.5	240.5	245.6	245.7	249.6	252.0
70°	193.8	190.9	192.8	196.2	198.7	204.1	211.9	213.9	214.3	216.3	218.8
72.5°	168.7	167.8	169.4	170.8	172.5	176.7	183.3	184.5	184.6	185.8	189.8
75°	134.1	133.1	132.1	133.7	135.5	138.5	140.9	142.9	142.4	142.9	145.8
77.5°	100.6	97.7	97.3	98.1	98.6	100.3	102.8	102.6	103.2	103.1	106.4
80°	79.7	75.9	75.4	75.4	75.9	76.8	77.9	78.8	77.3	78.8	79.7
82.5°	58.6	56.3	56.2	55.8	55.9	56.1	56.6	57.3	56.9	57.7	58.2
85°	32.3	31.3	29.9	30.8	30.3	28.8	29.9	28.4	27.9	28.4	28.8
87.5°	15.2	15.3	14.1	13.8	12.9	13.0	11.8	10.9	10.1	10.1	10.8
90°	20.9	19.6	17.6	15.7	13.9	12.0	9.9	7.7	5.6	3.4	1.2
92.5°	48.7	46.9	44.6	42.3	40.0	37.6	35.6	34.1	32.6	31.1	29.6
95°	96.0	94.2	91.4	88.7	86.0	83.3	81.6	81.1	80.6	80.0	79.5
97.5°	151.7	149.9	146.2	142.4	138.6	134.9	132.9	132.7	132.5	132.2	132.1
100°	189.5	187.1	183.5	180.0	176.4	173.0	171.2	171.2	171.2	171.2	171.2
102.5°	228.8	226.2	224.4	222.6	220.8	219.0	217.5	216.5	215.4	214.3	213.2
105°	293.9	292.2	290.6	289.0	287.3	285.7	284.2	282.9	281.4	280.1	278.8
107.5°	363.7	362.9	361.7	360.3	359.1	357.9	356.6	355.2	353.8	352.5	351.1
110°	411.6	410.8	410.0	409.2	408.4	407.6	406.4	405.1	403.8	402.4	401.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	460.1	459.7	458.6	457.6	456.6	455.6	454.7	454.0	453.3	452.6	451.9
115°	534.0	534.3	533.8	533.2	532.6	532.2	531.3	530.2	529.1	528.0	527.0
117.5°	606.9	606.7	606.1	605.7	605.2	604.7	604.3	603.7	603.2	602.8	602.3
120°	656.6	656.6	656.3	656.0	655.7	655.4	654.7	653.3	652.0	650.5	649.2
122.5°	705.2	705.5	704.7	704.1	703.3	702.7	702.0	701.5	701.1	700.6	700.1
125°	777.0	777.6	777.3	777.0	776.7	776.5	775.5	773.9	772.3	770.6	769.0
127.5°	847.7	848.0	847.7	847.3	847.1	846.7	846.1	845.2	844.2	843.3	842.4
130°	894.7	894.9	894.4	893.9	893.3	892.8	891.8	890.5	889.1	887.8	886.4
132.5°	939.7	940.0	940.1	940.2	940.3	940.4	939.3	937.1	934.9	932.6	930.4
135°	1008.7	1008.7	1008.4	1008.1	1007.9	1007.6	1006.6	1005.0	1003.3	1001.7	1000.1
137.5°	1075.7	1075.4	1074.9	1074.2	1073.7	1073.0	1072.0	1070.4	1068.8	1067.2	1065.6
140°	1118.0	1117.5	1116.6	1115.9	1115.0	1114.2	1113.1	1111.8	1110.4	1109.1	1107.7
142.5°	1159.9	1159.5	1158.5	1157.4	1156.4	1155.4	1154.3	1153.2	1152.1	1150.9	1149.8
145°	1220.2	1220.2	1219.4	1218.5	1217.8	1216.9	1216.0	1214.8	1213.8	1212.7	1211.6
147.5°	1275.2	1274.5	1273.8	1273.2	1272.5	1271.9	1271.2	1270.6	1270.1	1269.4	1268.9
150°	1310.7	1310.7	1309.6	1308.5	1307.4	1306.3	1305.9	1306.2	1306.5	1306.7	1307.0
152.5°	1342.7	1342.0	1341.5	1341.0	1340.7	1340.2	1339.8	1339.4	1339.1	1338.7	1338.3
155°	1388.7	1387.7	1387.4	1387.1	1386.9	1386.6	1386.5	1386.5	1386.5	1386.5	1386.5
157.5°	1429.1	1428.0	1427.8	1427.5	1427.2	1426.9	1427.1	1427.7	1428.3	1428.9	1429.5
160°	1453.6	1452.5	1452.2	1452.0	1451.7	1451.4	1451.7	1452.5	1453.3	1454.2	1454.9
162.5°	1476.3	1475.0	1474.9	1474.9	1474.8	1474.8	1475.1	1475.6	1476.2	1476.9	1477.4
165°	1507.4	1506.3	1506.0	1505.7	1505.4	1505.2	1505.3	1505.9	1506.4	1506.9	1507.5
167.5°	1529.7	1528.0	1528.0	1528.0	1528.0	1528.0	1528.6	1529.7	1530.8	1531.8	1533.0
170°	1543.4	1541.7	1541.7	1541.7	1541.7	1541.7	1542.3	1543.4	1544.5	1545.6	1546.6
172.5°	1553.1	1551.5	1551.5	1551.5	1551.5	1551.5	1552.1	1553.1	1554.3	1555.3	1556.4
175°	1564.1	1562.5	1562.5	1562.5	1562.5	1562.5	1563.1	1564.1	1565.3	1566.3	1567.4
177.5°	1569.4	1568.1	1568.4	1568.6	1568.8	1569.1	1569.5	1570.5	1571.3	1572.2	1573.0
180°	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1



TEST NUMBER: P333419-830

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1
2.5°	1159.3	1164.8	1168.4	1175.0	1180.4	1183.6	1186.4	1188.7	1191.5	1193.8	1200.4
5°	1166.8	1179.5	1190.2	1206.9	1222.1	1233.8	1246.5	1257.8	1267.2	1280.3	1290.6
7.5°	1163.6	1186.2	1209.8	1235.6	1261.9	1286.4	1308.9	1329.9	1349.1	1372.2	1392.4
10°	1160.5	1191.3	1221.6	1256.3	1292.0	1322.4	1350.8	1379.7	1400.7	1430.1	1455.0
12.5°	1158.1	1194.4	1231.0	1272.8	1312.0	1354.9	1392.7	1413.7	1445.8	1469.2	1498.9
15°	1148.2	1196.2	1246.5	1293.5	1349.3	1388.9	1422.3	1463.4	1493.2	1523.1	1555.4
17.5°	1130.5	1184.8	1241.1	1302.8	1356.3	1398.8	1441.7	1481.4	1517.0	1557.1	1597.2
20°	1122.3	1176.6	1241.1	1304.3	1356.7	1401.2	1445.3	1488.8	1528.0	1579.3	1625.9
22.5°	1105.0	1170.7	1230.2	1291.8	1345.7	1394.2	1444.1	1493.6	1545.6	1603.6	1661.9
25°	1074.3	1140.9	1204.0	1264.7	1319.0	1379.7	1433.0	1499.1	1565.7	1642.5	1715.0
27.5°	1042.4	1106.1	1163.9	1222.6	1285.9	1354.6	1423.8	1498.8	1585.9	1682.9	1785.1
30°	1016.5	1076.8	1133.0	1193.2	1259.2	1336.6	1412.5	1501.6	1602.3	1711.5	1832.9
32.5°	986.4	1041.9	1096.6	1160.4	1232.3	1313.9	1402.3	1500.0	1621.2	1745.2	1870.1
35°	934.8	981.3	1037.6	1105.6	1186.8	1280.3	1382.6	1498.1	1637.1	1779.5	1884.8
37.5°	873.6	916.9	976.2	1050.7	1136.0	1236.2	1357.6	1494.7	1642.3	1755.9	1789.8
40°	832.5	872.6	934.3	1011.6	1098.7	1204.9	1338.0	1482.9	1625.9	1698.3	1670.4
42.5°	788.6	830.8	890.8	967.4	1061.2	1176.8	1313.4	1458.3	1578.1	1605.5	1509.1
45°	719.4	763.0	822.2	899.6	1000.4	1125.7	1268.1	1399.8	1468.8	1419.3	1270.1
47.5°	655.2	696.0	750.8	830.7	934.7	1064.3	1201.5	1306.5	1311.9	1194.0	1034.5
50°	611.3	648.9	704.3	784.0	887.3	1018.5	1142.3	1225.0	1187.8	1054.2	901.0
52.5°	568.3	605.1	659.7	738.7	840.7	960.9	1076.1	1134.2	1064.1	927.0	796.1
55°	506.1	538.4	591.7	664.6	761.6	873.2	971.0	991.1	900.0	765.0	658.7
57.5°	445.4	475.5	524.1	591.3	679.8	778.6	855.2	850.9	754.7	638.8	554.5
60°	404.3	433.7	476.7	542.2	623.0	708.2	773.7	758.1	662.7	562.8	491.9
62.5°	367.5	393.7	434.4	491.7	565.4	644.4	698.2	675.1	581.6	494.3	438.2
65°	313.2	335.3	370.0	419.0	480.1	545.3	586.8	556.9	477.2	409.2	364.1
67.5°	261.5	279.1	308.2	347.3	399.4	451.8	477.1	447.0	383.2	333.6	300.2
70°	228.6	244.2	266.7	301.5	347.0	391.1	410.1	383.2	328.4	285.8	261.8
72.5°	195.7	208.6	228.4	259.6	296.1	334.3	351.0	325.3	280.2	244.3	221.9
75°	151.3	160.0	173.7	195.3	224.1	254.5	263.8	241.3	212.4	185.5	170.8
77.5°	108.3	115.7	126.1	139.7	160.1	179.5	187.6	174.6	152.2	135.2	123.1
80°	83.2	87.1	96.0	107.2	123.4	135.5	140.9	132.6	117.0	104.2	94.9
82.5°	59.3	63.2	68.5	77.9	88.1	96.4	102.2	96.6	85.3	75.3	69.8
85°	28.8	31.3	34.2	38.2	46.0	50.9	50.4	46.9	42.6	38.6	35.7
87.5°	10.8	11.7	13.3	15.6	17.2	19.2	20.4	20.0	18.8	17.9	17.0
90°	3.4	5.6	7.7	9.9	12.0	13.9	15.7	17.6	19.6	20.9	22.2
92.5°	31.1	32.6	34.1	35.6	37.6	40.0	42.3	44.6	46.9	48.7	50.5
95°	80.0	80.6	81.1	81.6	83.3	86.0	88.7	91.4	94.2	96.0	97.9
97.5°	132.2	132.5	132.7	132.9	134.9	138.6	142.4	146.2	149.9	151.7	153.4
100°	171.2	171.2	171.2	171.2	173.0	176.4	180.0	183.5	187.1	189.5	192.0
102.5°	214.3	215.4	216.5	217.5	219.0	220.8	222.6	224.4	226.2	228.8	231.5
105°	280.1	281.4	282.9	284.2	285.7	287.3	289.0	290.6	292.2	293.9	295.5
107.5°	352.5	353.8	355.2	356.6	357.9	359.1	360.3	361.7	362.9	363.7	364.5
110°	402.4	403.8	405.1	406.4	407.6	408.4	409.2	410.0	410.8	411.6	412.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	452.6	453.3	454.0	454.7	455.6	456.6	457.6	458.6	459.7	460.1	460.4
115°	528.0	529.1	530.2	531.3	532.2	532.6	533.2	533.8	534.3	534.0	533.8
117.5°	602.8	603.2	603.7	604.3	604.7	605.2	605.7	606.1	606.7	606.9	607.1
120°	650.5	652.0	653.3	654.7	655.4	655.7	656.0	656.3	656.6	656.6	656.6
122.5°	700.6	701.1	701.5	702.0	702.7	703.3	704.1	704.7	705.5	705.2	705.0
125°	770.6	772.3	773.9	775.5	776.5	776.7	777.0	777.3	777.6	777.0	776.5
127.5°	843.3	844.2	845.2	846.1	846.7	847.1	847.3	847.7	848.0	847.7	847.4
130°	887.8	889.1	890.5	891.8	892.8	893.3	893.9	894.4	894.9	894.7	894.4
132.5°	932.6	934.9	937.1	939.3	940.4	940.3	940.2	940.1	940.0	939.7	939.4
135°	1001.7	1003.3	1005.0	1006.6	1007.6	1007.9	1008.1	1008.4	1008.7	1008.7	1008.7
137.5°	1067.2	1068.8	1070.4	1072.0	1073.0	1073.7	1074.2	1074.9	1075.4	1075.7	1076.1
140°	1109.1	1110.4	1111.8	1113.1	1114.2	1115.0	1115.9	1116.6	1117.5	1118.0	1118.6
142.5°	1150.9	1152.1	1153.2	1154.3	1155.4	1156.4	1157.4	1158.5	1159.5	1159.9	1160.2
145°	1212.7	1213.8	1214.8	1216.0	1216.9	1217.8	1218.5	1219.4	1220.2	1220.2	1220.2
147.5°	1269.4	1270.1	1270.6	1271.2	1271.9	1272.5	1273.2	1273.8	1274.5	1275.2	1275.7
150°	1306.7	1306.5	1306.2	1305.9	1306.3	1307.4	1308.5	1309.6	1310.7	1310.7	1310.7
152.5°	1338.7	1339.1	1339.4	1339.8	1340.2	1340.7	1341.0	1341.5	1342.0	1342.7	1343.2
155°	1386.5	1386.5	1386.5	1386.5	1386.6	1386.9	1387.1	1387.4	1387.7	1388.7	1389.9
157.5°	1428.9	1428.3	1427.7	1427.1	1426.9	1427.2	1427.5	1427.8	1428.0	1429.1	1430.2
160°	1454.2	1453.3	1452.5	1451.7	1451.4	1451.7	1452.0	1452.2	1452.5	1453.6	1454.6
162.5°	1476.9	1476.2	1475.6	1475.1	1474.8	1474.8	1474.9	1474.9	1475.0	1476.3	1477.6
165°	1506.9	1506.4	1505.9	1505.3	1505.2	1505.4	1505.7	1506.0	1506.3	1507.4	1508.4
167.5°	1531.8	1530.8	1529.7	1528.6	1528.0	1528.0	1528.0	1528.0	1528.0	1529.7	1531.3
170°	1545.6	1544.5	1543.4	1542.3	1541.7	1541.7	1541.7	1541.7	1541.7	1543.4	1545.0
172.5°	1555.3	1554.3	1553.1	1552.1	1551.5	1551.5	1551.5	1551.5	1551.5	1553.1	1554.8
175°	1566.3	1565.3	1564.1	1563.1	1562.5	1562.5	1562.5	1562.5	1562.5	1564.1	1565.8
177.5°	1572.2	1571.3	1570.5	1569.5	1569.1	1568.8	1568.6	1568.4	1568.1	1569.4	1570.7
180°	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1
2.5°	1205.9	1209.1	1215.7	1213.3	1216.5	1218.0	1219.7
5°	1303.3	1319.0	1325.9	1324.8	1335.1	1332.7	1330.2
7.5°	1413.3	1429.8	1439.0	1450.5	1457.1	1457.5	1463.4
10°	1475.6	1497.1	1506.0	1518.2	1526.0	1530.4	1529.9
12.5°	1523.3	1540.2	1560.0	1565.9	1576.5	1582.1	1580.1
15°	1580.8	1607.8	1628.3	1638.6	1651.8	1655.7	1661.1
17.5°	1632.1	1668.2	1692.2	1724.1	1736.2	1743.5	1739.2
20°	1670.8	1718.3	1742.4	1780.6	1801.6	1812.8	1808.9
22.5°	1716.7	1768.1	1812.4	1845.5	1877.5	1892.7	1895.8
25°	1795.2	1865.7	1930.8	1974.3	2013.9	2023.3	2043.8
27.5°	1882.9	1966.0	2035.6	2081.4	2109.0	2119.4	2125.8
30°	1938.2	2020.8	2073.2	2102.5	2111.4	2110.4	2109.4
32.5°	1965.1	2016.9	2026.9	2018.7	1998.6	1981.6	1963.8
35°	1926.8	1888.2	1830.4	1756.1	1701.2	1646.0	1640.5
37.5°	1733.0	1609.3	1513.2	1405.8	1343.9	1305.6	1279.1
40°	1550.5	1410.0	1293.5	1203.0	1139.8	1114.9	1090.4
42.5°	1352.4	1218.1	1115.0	1039.3	991.8	964.1	944.8
45°	1098.7	980.3	899.6	844.7	807.1	785.5	773.3
47.5°	900.3	812.8	744.1	704.6	678.5	661.8	661.9
50°	793.8	710.1	664.6	633.3	610.8	597.6	600.0
52.5°	699.5	637.0	598.0	571.8	555.2	547.1	546.8
55°	584.8	539.8	514.3	495.3	484.0	474.8	476.7
57.5°	500.3	462.3	445.3	429.4	421.6	417.8	412.5
60°	447.8	418.5	403.8	391.1	383.2	380.3	374.8
62.5°	401.2	378.1	363.8	353.5	346.4	345.4	341.2
65°	337.2	319.6	306.9	302.0	294.6	292.7	292.7
67.5°	278.0	265.3	255.5	251.0	247.7	248.3	245.9
70°	240.8	230.5	224.1	219.2	216.8	217.3	215.4
72.5°	210.7	199.2	193.6	190.7	187.5	188.7	187.9
75°	159.6	153.6	150.7	147.8	145.8	144.9	143.9
77.5°	117.2	112.0	109.7	108.1	108.4	106.0	107.8
80°	90.6	86.1	84.6	82.2	81.7	81.7	81.2
82.5°	66.3	63.8	62.8	60.7	59.9	60.6	59.3
85°	34.2	32.3	31.9	31.9	30.8	29.9	32.3
87.5°	17.2	15.9	16.2	15.9	16.1	15.9	15.3
90°	23.7	25.0	26.1	26.9	27.7	28.6	29.3
92.5°	52.3	54.1	55.3	55.9	56.6	57.1	57.7
95°	99.8	101.8	102.9	103.5	104.1	104.6	105.2
97.5°	155.2	157.0	158.2	158.4	158.8	159.1	159.5
100°	194.4	196.8	198.3	198.9	199.4	200.0	200.5
102.5°	234.1	236.9	238.6	239.3	240.1	240.8	241.6
105°	297.1	298.7	299.9	300.8	301.6	302.4	303.2
107.5°	365.3	366.2	366.6	366.5	366.4	366.4	366.3
110°	413.2	414.1	414.3	414.1	413.8	413.5	413.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	460.8	461.2	461.2	460.7	460.2	459.7	459.2
115°	533.5	533.2	532.9	532.6	532.3	532.2	531.9
117.5°	607.3	607.6	607.1	606.1	604.9	603.9	602.8
120°	656.6	656.6	656.0	654.9	653.8	652.7	651.7
122.5°	704.8	704.6	704.1	703.1	702.3	701.4	700.6
125°	776.0	775.4	775.1	774.8	774.5	774.2	773.9
127.5°	847.2	847.0	846.5	846.0	845.5	844.9	844.3
130°	894.2	893.9	893.4	893.0	892.4	891.8	891.3
132.5°	939.1	938.9	938.4	937.6	936.8	936.0	935.3
135°	1008.7	1008.7	1008.1	1007.0	1006.0	1004.8	1003.8
137.5°	1076.4	1076.8	1076.2	1074.9	1073.5	1072.1	1070.8
140°	1119.1	1119.6	1119.3	1117.9	1116.5	1115.2	1113.8
142.5°	1160.6	1160.8	1160.4	1159.0	1157.6	1156.2	1154.9
145°	1220.2	1220.2	1219.7	1219.0	1218.1	1217.3	1216.5
147.5°	1276.4	1277.1	1276.5	1274.6	1272.8	1270.9	1269.1
150°	1310.7	1310.7	1310.4	1309.9	1309.3	1308.7	1308.2
152.5°	1343.9	1344.5	1344.4	1343.4	1342.5	1341.4	1340.5
155°	1390.9	1392.0	1391.9	1390.5	1389.2	1387.8	1386.5
157.5°	1431.3	1432.4	1432.0	1430.2	1428.4	1426.6	1424.8
160°	1455.8	1456.8	1456.7	1455.4	1454.0	1452.6	1451.2
162.5°	1478.8	1480.2	1480.1	1478.5	1476.9	1475.4	1473.8
165°	1509.6	1510.6	1510.3	1508.7	1507.1	1505.4	1503.8
167.5°	1533.0	1534.6	1534.6	1532.9	1531.2	1529.5	1527.8
170°	1546.6	1548.2	1548.1	1546.2	1544.4	1542.4	1540.5
172.5°	1556.4	1558.0	1558.0	1556.3	1554.6	1552.9	1551.2
175°	1567.4	1569.1	1568.9	1567.0	1565.1	1563.2	1561.3
177.5°	1572.1	1573.4	1573.3	1571.7	1570.2	1568.7	1567.2
180°	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1

(END OF REPORT)