

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: P331837-927

Luminaire Tested: **S122RDIW-S865D1240U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331837-927  
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: S122RDIW-S865D1240U927-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1240 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

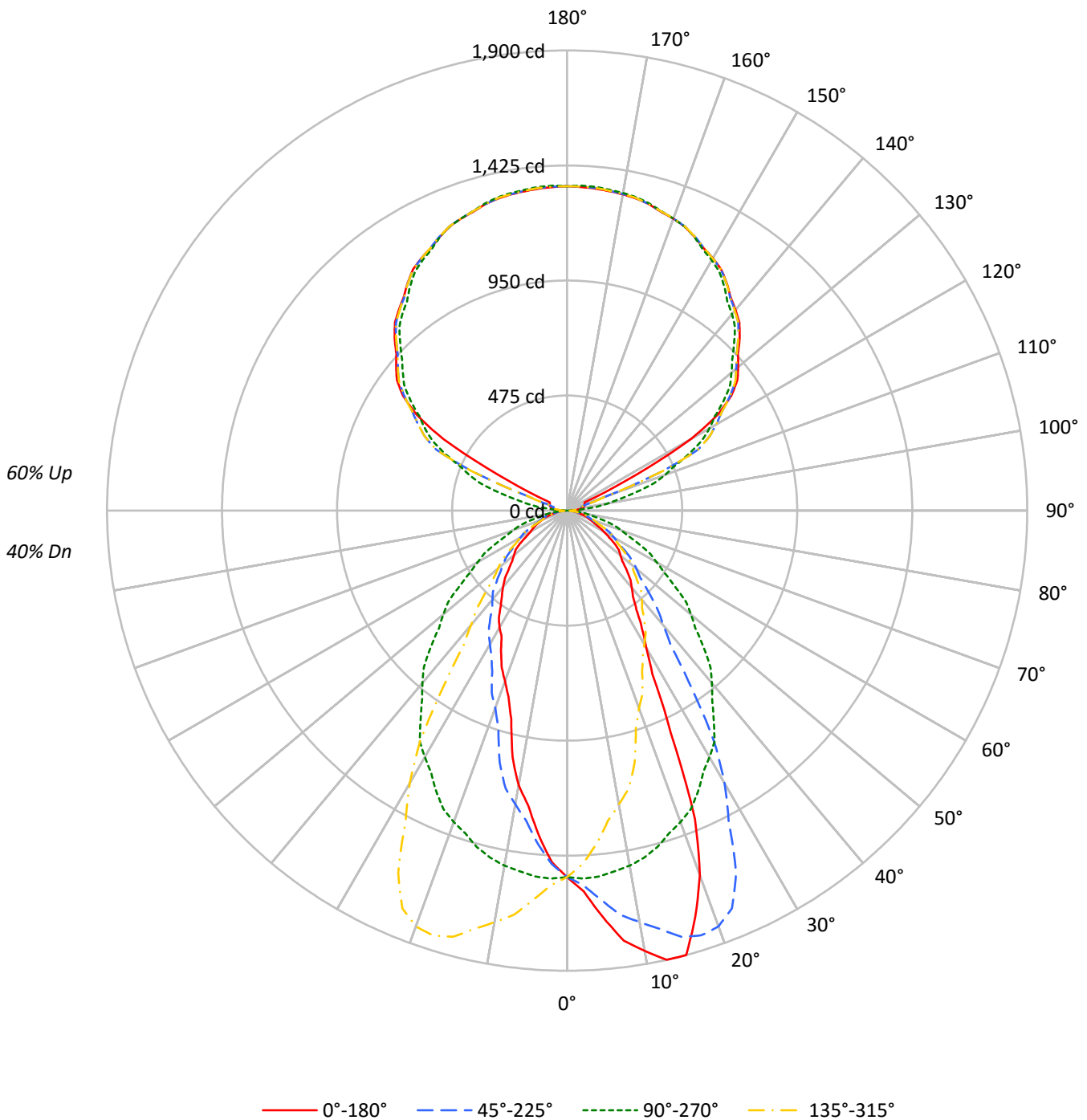
Lumens per Lamp: N/A  
Luminaire Lumens: 6542.3 lumens  
Efficiency: N/A  
Efficacy: 93.7 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 69.8  
Input Voltage (V): 120  
Input Current (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	95	95	95	95	78	78	78	62	62	62	47	47	47	40
1	96	92	89	85	87	84	81	78	69	67	65	55	54	53	42	42	41	35
2	88	81	75	71	80	74	69	65	61	58	55	49	47	45	38	37	35	30
3	81	72	65	60	73	66	60	55	55	50	47	44	41	39	34	33	31	26
4	74	64	57	51	67	59	52	48	49	44	41	40	36	34	31	29	27	23
5	68	57	50	44	62	53	46	41	44	39	35	36	33	30	28	26	24	21
6	63	52	44	39	58	48	41	36	40	35	31	33	29	26	26	24	22	19
7	59	47	39	34	53	43	37	32	37	31	28	30	26	24	24	22	20	17
8	54	43	35	30	50	40	33	29	33	28	25	28	24	21	22	20	18	15
9	51	39	32	27	46	36	30	26	31	26	22	26	22	19	21	18	16	14
10	48	36	29	25	43	33	27	23	28	24	20	24	20	18	19	17	15	13

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

	0°	90°	180°	270°
0°	24425	24425	24425	24425
5°	27279	24577	21793	24577
10°	30263	24405	18889	24405
15°	31753	24047	14883	24047
20°	27527	23517	12880	23517
25°	18054	22792	11500	22792
30°	12152	21912	10407	21912
35°	9841	20802	9386	20802
40°	8753	19597	8686	19597
45°	7921	18182	7752	18182
50°	7209	16779	7181	16779
55°	6776	15226	6688	15226
60°	5667	13798	5603	13798
65°	4779	12531	5421	12531
70°	4419	11188	5113	11188
75°	4130	9738	4722	9738
80°	3812	8015	4203	8015
85°	3501	6317	3705	6317



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.4	2.2
10°-20°	399.6	6.1
20°-30°	514.9	7.9
30°-40°	489.3	7.5
40°-50°	419.2	6.4
50°-60°	319.2	4.9
60°-70°	201.8	3.1
70°-80°	100.8	1.5
80°-90°	29.5	0.5
90°-100°	44.7	0.7
100°-110°	163.8	2.5
110°-120°	437.9	6.7
120°-130°	722.9	11.0
130°-140°	768.8	11.8
140°-150°	714.5	10.9
150°-160°	574.5	8.8
160°-170°	370.2	5.7
170°-180°	127.4	1.9
0°-30°	1057.9	16.2
0°-40°	1547.2	23.6
0°-60°	2285.6	34.9
0°-90°	2617.6	40.0
90°-120°	646.4	9.9
90°-150°	2852.5	43.6
90°-180°	3925.0	60.0
0°-180°	6542.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1513	1513	1513	1513	1513	
5°	1683	1516	1345	1516	1683	166
15°	1900	1439	890	1439	1900	512
25°	1013	1279	646	1279	1013	481
35°	499	1055	476	1055	499	319
45°	347	796	340	796	347	269
55°	241	541	238	541	241	211
65°	125	328	142	328	125	127
75°	66	156	76	156	66	70
85°	19	34	20	34	19	21
90°	26	1	26	1	26	12
95°	42	63	42	63	42	39
105°	74	295	74	295	74	77
115°	80	557	80	557	80	199
125°	828	788	828	788	828	717
135°	1007	975	1007	975	1007	776
145°	1148	1131	1148	1131	1148	718
155°	1246	1245	1246	1245	1246	575
165°	1309	1312	1309	1312	1309	370
175°	1334	1342	1334	1342	1334	127
180°	1339	1339	1339	1339	1339	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8
2.5°	1574.1	1575.4	1576.7	1573.7	1573.7	1571.2	1565.7	1561.5	1549.7	1548.1	1548.1
5°	1683.1	1682.0	1684.1	1677.3	1667.8	1665.7	1655.7	1642.6	1628.9	1613.7	1610.5
7.5°	1791.3	1789.7	1785.5	1784.4	1777.1	1761.3	1745.2	1728.1	1705.3	1683.1	1672.0
10°	1845.9	1863.3	1852.8	1834.4	1838.1	1813.4	1800.2	1777.7	1758.7	1725.6	1718.2
12.5°	1899.8	1906.6	1903.3	1892.8	1888.2	1871.0	1853.2	1833.6	1798.6	1768.9	1743.0
15°	1899.6	1909.6	1912.2	1909.1	1911.7	1910.7	1901.2	1884.8	1854.4	1821.8	1793.4
17.5°	1759.4	1766.3	1783.5	1795.2	1809.9	1841.0	1856.4	1862.3	1857.8	1839.2	1819.2
20°	1602.1	1590.5	1638.9	1663.6	1684.6	1737.2	1782.4	1799.8	1827.6	1827.1	1821.8
22.5°	1379.2	1382.0	1427.8	1457.1	1518.5	1571.1	1622.6	1687.9	1741.8	1777.4	1798.3
25°	1013.4	1033.4	1079.1	1119.0	1187.4	1285.2	1374.0	1477.0	1574.2	1651.0	1724.0
27.5°	761.1	762.6	798.8	835.8	876.3	956.4	1068.3	1191.3	1329.9	1444.3	1575.9
30°	651.8	648.6	663.8	686.4	721.1	783.2	867.3	988.2	1126.4	1298.8	1452.3
32.5°	574.4	574.6	586.1	602.8	631.6	673.4	731.0	829.3	959.9	1129.3	1309.3
35°	499.3	498.8	507.2	519.3	531.4	558.2	597.6	649.1	739.0	897.2	1081.2
37.5°	445.5	447.8	451.9	459.5	472.9	487.7	511.4	546.1	610.1	703.6	858.3
40°	415.3	416.3	422.1	428.4	436.3	447.8	467.3	495.1	541.9	616.6	729.5
42.5°	387.5	388.6	392.6	398.5	404.7	416.3	432.4	456.5	494.4	552.6	645.9
45°	346.9	346.9	350.6	353.2	360.0	370.6	383.7	403.7	429.9	473.1	535.1
47.5°	308.9	309.0	311.4	315.9	320.2	328.4	341.4	357.7	376.8	410.1	463.1
50°	287.0	287.5	289.1	292.8	295.4	302.8	312.8	326.9	346.9	372.6	416.8
52.5°	269.3	269.0	271.0	272.6	274.4	279.6	287.1	299.6	317.5	339.8	376.4
55°	240.7	238.6	241.8	244.4	246.0	248.1	252.3	260.2	275.4	294.4	321.7
57.5°	205.0	204.1	206.4	208.7	213.7	219.4	223.0	228.0	235.9	249.5	276.6
60°	175.5	175.5	180.3	181.9	187.7	195.0	202.4	206.6	214.4	223.4	243.4
62.5°	149.5	149.9	152.1	153.7	156.9	166.0	176.3	185.5	193.0	201.5	214.8
65°	125.1	126.1	126.1	127.2	129.3	131.4	135.6	143.0	156.1	168.2	178.2
67.5°	106.2	106.5	106.8	107.9	108.4	110.7	112.4	115.7	118.7	130.2	142.5
70°	93.6	95.1	94.6	95.7	96.2	97.2	99.3	100.9	105.7	108.3	115.7
72.5°	81.8	82.9	82.9	83.5	84.8	85.1	86.7	88.3	91.3	93.6	97.5
75°	66.2	65.7	66.2	67.3	67.8	68.4	68.4	70.4	72.0	74.1	76.8
77.5°	51.1	51.7	51.5	51.7	51.7	52.7	52.6	53.5	55.1	56.2	57.4
80°	41.0	41.5	41.0	41.5	42.1	42.5	42.1	42.5	44.1	45.2	45.2
82.5°	31.8	31.8	32.2	32.2	32.4	32.5	33.2	33.4	34.5	34.3	34.7
85°	18.9	18.4	18.4	18.4	18.9	19.4	18.9	18.9	19.4	19.4	19.4
87.5°	12.0	12.3	12.2	12.1	12.0	11.9	11.6	11.9	11.2	11.4	10.7
90°	26.1	25.7	25.3	24.9	24.5	23.7	22.6	21.5	20.4	19.4	17.7
92.5°	26.1	25.9	25.7	25.3	25.1	24.7	24.2	23.6	23.1	22.5	21.6
95°	41.7	41.9	42.1	42.3	42.5	42.1	41.0	39.9	38.9	37.8	36.3
97.5°	55.6	55.4	55.1	54.8	54.6	54.0	53.2	52.3	51.4	50.6	47.1
100°	65.0	64.5	64.1	63.6	63.2	62.1	60.4	58.7	57.0	55.2	51.6
102.5°	69.6	69.0	68.4	67.7	67.2	65.8	63.5	61.2	59.0	56.8	87.4
105°	73.7	72.8	71.9	71.1	70.2	68.6	66.2	63.8	61.5	59.1	117.9
107.5°	75.8	74.9	74.1	73.2	72.3	73.1	75.5	78.0	80.3	82.8	153.3
110°	76.5	75.7	74.9	74.0	73.1	83.4	105.0	126.5	148.1	169.6	231.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	77.3	76.6	76.0	75.3	74.5	113.5	192.1	270.6	349.2	427.7	443.1
115°	79.5	95.0	110.5	126.0	141.5	199.1	298.8	398.5	498.2	597.9	592.6
117.5°	324.4	375.4	426.4	477.3	528.2	565.8	589.9	614.0	638.1	662.3	658.5
120°	591.1	620.2	649.3	678.3	707.4	720.6	718.0	715.5	712.9	710.3	706.5
122.5°	737.6	743.3	748.9	754.6	760.2	762.2	760.7	759.1	757.6	756.1	751.9
125°	828.5	827.9	827.3	826.6	825.9	824.9	823.4	821.9	820.4	818.9	814.8
127.5°	885.9	885.7	885.7	885.5	885.4	884.2	882.0	879.8	877.7	875.4	872.4
130°	921.5	921.8	922.0	922.2	922.4	921.3	919.0	916.6	914.3	911.9	909.5
132.5°	956.5	956.6	956.9	957.1	957.3	956.4	954.3	952.4	950.3	948.3	945.9
135°	1006.9	1007.3	1007.7	1008.1	1008.5	1007.7	1005.5	1003.4	1001.2	999.1	997.1
137.5°	1052.7	1053.5	1054.2	1054.9	1055.7	1055.0	1052.9	1050.8	1048.7	1046.6	1044.3
140°	1081.5	1082.5	1083.6	1084.7	1085.8	1085.4	1083.4	1081.5	1079.5	1077.6	1075.2
142.5°	1109.4	1110.4	1111.5	1112.6	1113.6	1113.3	1111.6	1109.8	1108.0	1106.3	1103.5
145°	1148.3	1149.4	1150.5	1151.5	1152.6	1152.4	1150.9	1149.4	1147.9	1146.4	1142.7
147.5°	1182.6	1183.5	1184.4	1185.3	1186.2	1186.1	1185.0	1183.9	1182.8	1181.6	1178.1
150°	1203.6	1204.6	1205.7	1206.8	1207.8	1207.8	1206.5	1205.1	1203.9	1202.6	1199.1
152.5°	1221.4	1222.8	1224.2	1225.7	1227.1	1227.2	1225.8	1224.6	1223.3	1221.9	1218.7
155°	1246.2	1247.9	1249.7	1251.3	1253.1	1253.3	1252.0	1250.7	1249.4	1248.2	1245.5
157.5°	1268.8	1270.6	1272.2	1273.9	1275.6	1275.7	1274.2	1272.8	1271.3	1269.9	1268.0
160°	1282.1	1283.6	1285.1	1286.6	1288.1	1288.2	1286.9	1285.6	1284.3	1283.0	1281.8
162.5°	1292.9	1294.7	1296.6	1298.5	1300.3	1300.5	1299.0	1297.6	1296.1	1294.7	1293.6
165°	1309.2	1310.7	1312.2	1313.7	1315.2	1315.2	1313.7	1312.2	1310.7	1309.2	1308.5
167.5°	1319.5	1321.4	1323.3	1325.2	1327.2	1327.4	1325.9	1324.4	1322.9	1321.4	1320.8
170°	1325.6	1327.6	1329.5	1331.5	1333.4	1333.6	1332.1	1330.6	1329.1	1327.6	1327.1
172.5°	1330.3	1332.2	1334.2	1336.1	1338.1	1338.2	1336.7	1335.2	1333.7	1332.2	1331.8
175°	1334.4	1336.5	1338.7	1340.8	1343.0	1343.3	1341.8	1340.3	1338.8	1337.3	1336.9
177.5°	1336.9	1338.5	1340.0	1341.6	1343.1	1343.3	1342.0	1340.8	1339.7	1338.5	1338.2
180°	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8
2.5°	1548.9	1545.5	1542.6	1535.0	1531.2	1522.8	1521.5	1521.1	1510.2	1499.7	1496.7
5°	1602.1	1593.7	1581.0	1566.4	1551.1	1535.3	1524.8	1516.4	1495.4	1475.4	1463.9
7.5°	1655.7	1637.6	1615.9	1588.0	1564.8	1538.7	1519.3	1502.0	1472.2	1443.6	1424.3
10°	1695.7	1666.2	1637.3	1598.9	1569.0	1539.5	1512.2	1488.6	1454.9	1417.1	1390.3
12.5°	1720.5	1688.1	1648.2	1610.7	1571.9	1534.5	1497.9	1467.5	1428.0	1388.9	1357.0
15°	1754.0	1719.3	1671.0	1617.3	1567.4	1518.5	1476.5	1438.6	1387.1	1340.3	1301.4
17.5°	1781.5	1733.7	1681.8	1619.8	1561.9	1499.8	1445.7	1397.3	1340.0	1283.6	1237.7
20°	1790.3	1743.0	1683.1	1621.0	1552.7	1479.6	1421.3	1368.7	1307.2	1245.7	1193.2
22.5°	1784.8	1748.0	1681.3	1607.1	1537.2	1460.7	1394.8	1333.8	1265.6	1202.8	1141.9
25°	1747.7	1735.0	1672.0	1591.0	1511.2	1422.4	1346.1	1279.4	1201.6	1134.3	1068.0
27.5°	1661.2	1688.4	1649.3	1563.1	1474.3	1379.0	1293.3	1217.3	1136.6	1060.9	994.9
30°	1577.9	1640.5	1623.7	1543.7	1444.4	1350.8	1254.7	1175.3	1089.1	1011.3	946.1
32.5°	1464.0	1567.3	1583.7	1516.9	1414.1	1311.3	1210.5	1131.6	1041.6	959.6	896.0
35°	1282.5	1437.0	1508.0	1465.5	1362.4	1251.5	1147.4	1055.4	965.0	884.1	821.0
37.5°	1066.0	1276.5	1394.8	1397.8	1303.2	1187.9	1074.6	983.3	890.7	811.3	743.0
40°	925.6	1153.7	1307.7	1341.9	1262.0	1137.4	1022.9	929.8	839.4	761.6	683.3
42.5°	799.5	1026.7	1216.1	1275.5	1212.0	1088.2	973.3	876.0	788.1	714.5	634.5
45°	646.5	845.2	1053.8	1160.1	1124.8	1010.3	888.8	796.3	713.8	650.2	573.5
47.5°	545.4	685.4	887.3	1030.9	1030.3	925.7	806.3	717.7	641.1	581.5	519.4
50°	487.7	609.7	780.5	943.5	957.1	869.3	755.8	668.0	596.6	534.0	484.1
52.5°	436.0	536.5	690.1	846.4	885.3	809.2	699.1	618.1	548.7	491.2	448.4
55°	368.4	446.2	562.9	709.1	767.9	714.3	616.6	540.9	484.7	436.3	399.5
57.5°	311.7	370.0	463.7	581.3	649.9	616.2	535.5	474.0	425.9	382.1	353.1
60°	275.9	323.8	403.1	501.5	577.1	553.5	484.7	427.3	386.3	348.5	321.2
62.5°	242.3	283.4	351.4	431.2	500.6	490.8	434.6	386.5	350.6	316.1	292.9
65°	195.0	225.0	278.1	340.6	396.3	401.1	360.6	328.0	296.0	268.6	248.1
67.5°	155.3	174.8	212.2	264.9	306.7	321.5	296.8	272.0	246.5	225.4	207.6
70°	130.9	146.6	174.0	216.6	254.9	270.7	256.5	237.0	215.0	197.6	182.4
72.5°	106.1	121.4	141.6	172.9	205.7	222.8	217.9	203.8	185.9	171.6	157.2
75°	79.9	84.6	98.3	119.3	145.0	159.8	163.5	156.1	141.9	130.9	122.5
77.5°	59.1	61.9	68.4	79.5	96.3	109.4	114.8	113.9	104.2	97.8	89.9
80°	47.3	48.9	52.0	56.8	69.4	82.5	86.2	86.2	79.4	76.8	68.8
82.5°	36.0	37.1	39.0	41.6	47.5	58.9	63.1	63.9	59.6	56.2	49.9
85°	20.5	20.0	21.0	22.6	23.7	26.8	33.1	34.1	33.1	28.9	27.3
87.5°	10.3	10.4	10.1	9.3	9.2	9.1	10.8	12.4	11.2	10.4	10.1
90°	15.9	14.2	12.5	10.5	8.1	5.7	3.3	1.0	3.3	5.7	8.1
92.5°	20.8	19.9	19.0	18.7	18.9	19.2	19.3	19.6	19.3	19.2	18.9
95°	34.8	33.3	31.8	34.5	41.7	48.8	55.8	63.0	55.8	48.8	41.7
97.5°	43.6	40.1	36.6	44.9	65.0	84.9	105.0	125.0	105.0	84.9	65.0
100°	47.9	44.3	40.6	53.6	83.0	112.5	142.0	171.5	142.0	112.5	83.0
102.5°	118.0	148.6	179.3	197.7	204.0	210.2	216.4	222.7	216.4	210.2	204.0
105°	176.7	235.5	294.3	320.4	313.9	307.5	301.0	294.6	301.0	307.5	313.9
107.5°	223.8	294.3	364.8	397.4	392.2	387.0	381.8	376.6	381.8	387.0	392.2
110°	294.1	356.3	418.5	447.3	442.8	438.3	433.8	429.3	433.8	438.3	442.8





TEST NUMBER: P331837-927

CATALOG NUMBER: S122RDIW-S865D1240U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	458.5	473.9	489.3	495.0	490.9	486.9	482.9	478.9	482.9	486.9	490.9
115°	587.2	581.8	576.4	571.9	568.2	564.5	560.9	557.2	560.9	564.5	568.2
117.5°	654.8	651.1	647.5	643.6	639.4	635.3	631.3	627.2	631.3	635.3	639.4
120°	702.6	698.7	694.8	691.3	688.0	684.8	681.6	678.3	681.6	684.8	688.0
122.5°	747.6	743.4	739.2	735.4	732.0	728.6	725.2	721.8	725.2	728.6	732.0
125°	810.6	806.6	802.5	799.0	796.2	793.4	790.6	787.8	790.6	793.4	796.2
127.5°	869.3	866.3	863.2	860.2	857.1	853.9	850.8	847.7	850.8	853.9	857.1
130°	907.1	904.8	902.4	899.5	896.0	892.6	889.1	885.7	889.1	892.6	896.0
132.5°	943.6	941.2	938.8	936.2	933.3	930.3	927.4	924.5	927.4	930.3	933.3
135°	995.2	993.2	991.3	988.6	985.2	981.8	978.3	974.9	978.3	981.8	985.2
137.5°	1042.2	1040.0	1037.8	1035.5	1033.1	1030.6	1028.3	1025.8	1028.3	1030.6	1033.1
140°	1072.9	1070.5	1068.1	1066.0	1064.3	1062.6	1060.9	1059.1	1060.9	1062.6	1064.3
142.5°	1100.8	1098.1	1095.4	1093.3	1091.7	1090.2	1088.6	1087.1	1088.6	1090.2	1091.7
145°	1139.1	1135.4	1131.7	1130.0	1130.2	1130.4	1130.7	1130.8	1130.7	1130.4	1130.2
147.5°	1174.4	1170.8	1167.2	1165.8	1166.6	1167.4	1168.2	1169.0	1168.2	1167.4	1166.6
150°	1195.7	1192.2	1188.8	1187.8	1189.3	1190.9	1192.4	1193.9	1192.4	1190.9	1189.3
152.5°	1215.4	1212.1	1208.9	1208.1	1209.7	1211.4	1213.1	1214.8	1213.1	1211.4	1209.7
155°	1242.9	1240.4	1237.8	1237.5	1239.4	1241.3	1243.3	1245.2	1243.3	1241.3	1239.4
157.5°	1266.2	1264.4	1262.6	1262.5	1264.2	1265.7	1267.4	1269.1	1267.4	1265.7	1264.2
160°	1280.4	1279.1	1277.9	1277.9	1279.1	1280.4	1281.8	1283.0	1281.8	1280.4	1279.1
162.5°	1292.4	1291.3	1290.1	1290.2	1291.6	1292.8	1294.1	1295.5	1294.1	1292.8	1291.6
165°	1307.9	1307.3	1306.6	1306.9	1308.2	1309.5	1310.8	1312.1	1310.8	1309.5	1308.2
167.5°	1320.2	1319.6	1319.0	1319.3	1320.6	1321.9	1323.2	1324.5	1323.2	1321.9	1320.6
170°	1326.7	1326.3	1325.9	1326.3	1327.6	1328.9	1330.2	1331.5	1330.2	1328.9	1327.6
172.5°	1331.3	1330.9	1330.5	1330.9	1332.2	1333.6	1334.8	1336.1	1334.8	1333.6	1332.2
175°	1336.4	1336.0	1335.5	1336.1	1337.6	1339.1	1340.6	1342.1	1340.6	1339.1	1337.6
177.5°	1338.1	1337.9	1337.8	1338.2	1339.5	1340.7	1341.9	1343.1	1341.9	1340.7	1339.5
180°	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2



TEST NUMBER: P331837-927

CATALOG NUMBER: S122RDIW-S865D1240U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8
2.5°	1491.3	1488.4	1482.9	1474.5	1469.4	1460.6	1454.7	1458.1	1458.9	1458.1	1457.2
5°	1451.2	1440.2	1425.0	1410.2	1396.5	1381.9	1373.4	1369.8	1362.4	1358.2	1356.1
7.5°	1402.8	1383.8	1362.2	1336.6	1314.8	1292.0	1280.3	1274.5	1259.5	1251.3	1244.1
10°	1366.6	1336.6	1315.1	1281.4	1261.0	1231.0	1210.5	1211.0	1190.5	1178.9	1170.5
12.5°	1326.7	1293.8	1257.9	1227.6	1199.1	1175.0	1150.4	1140.3	1118.6	1107.5	1084.7
15°	1260.4	1222.1	1184.2	1143.2	1114.3	1077.0	1041.2	997.6	962.4	931.9	923.5
17.5°	1188.1	1140.6	1102.6	1054.5	1005.0	942.2	900.8	875.4	854.2	838.1	826.2
20°	1138.5	1090.1	1049.6	977.2	910.4	867.8	837.3	817.8	795.8	778.5	769.0
22.5°	1086.3	1035.9	980.7	899.8	847.7	813.6	786.4	764.1	749.1	735.5	726.9
25°	1012.3	957.1	866.3	810.5	768.4	732.7	713.8	700.1	684.4	666.0	657.5
27.5°	934.1	846.4	781.1	739.7	699.5	676.3	659.3	638.8	624.7	616.5	607.7
30°	875.7	787.9	736.9	691.7	663.3	637.5	617.6	606.0	592.4	578.2	572.4
32.5°	810.5	740.4	691.5	653.9	625.0	603.1	587.3	568.6	558.7	550.0	537.9
35°	729.5	676.4	631.8	601.3	574.0	556.1	537.7	526.6	508.8	501.5	496.7
37.5°	661.0	615.0	581.6	549.5	527.8	508.0	496.8	479.3	471.5	461.3	451.3
40°	622.3	577.1	545.1	518.8	494.6	479.9	465.7	451.5	440.0	435.2	423.1
42.5°	582.8	546.1	514.0	485.1	469.0	453.4	435.5	425.0	413.0	405.4	397.9
45°	528.2	495.7	468.3	444.7	426.8	410.5	398.9	381.6	374.8	359.5	353.2
47.5°	480.3	450.0	424.0	401.5	384.0	373.4	356.5	342.9	332.0	322.7	314.5
50°	446.2	421.0	395.8	375.8	360.0	344.8	327.5	320.6	303.8	299.0	294.4
52.5°	415.1	391.2	368.0	348.5	332.7	317.9	302.6	293.7	282.3	277.7	274.2
55°	371.6	348.5	326.4	309.0	293.3	278.1	268.6	257.5	252.3	248.6	244.4
57.5°	327.9	307.0	290.2	272.6	256.7	244.6	233.7	227.0	221.6	216.7	211.8
60°	300.2	280.1	264.9	248.6	232.3	222.4	213.9	206.0	199.7	192.3	190.3
62.5°	270.7	253.3	239.2	223.4	209.2	200.0	192.0	184.6	177.1	166.3	163.3
65°	230.2	216.6	201.8	188.7	176.1	167.2	155.6	147.2	144.0	143.0	142.4
67.5°	193.6	180.7	168.1	154.6	143.1	134.9	129.0	127.7	125.5	124.8	123.4
70°	169.2	157.2	144.6	131.9	120.9	119.3	117.2	115.1	112.5	111.5	110.4
72.5°	147.3	134.9	122.2	112.2	107.4	105.4	103.3	101.2	99.4	98.4	97.8
75°	113.0	101.5	93.0	89.4	86.7	85.2	82.0	80.4	79.4	77.8	77.2
77.5°	81.4	74.9	71.0	68.7	65.9	64.2	62.4	60.8	59.7	59.4	58.5
80°	62.0	58.9	56.2	53.1	52.0	49.9	49.4	47.8	48.3	46.8	46.8
82.5°	48.2	44.1	41.9	40.5	39.5	37.7	37.2	36.4	36.6	35.4	35.4
85°	24.7	23.7	22.6	21.5	21.5	20.0	20.5	20.0	20.0	18.9	18.4
87.5°	10.1	10.1	9.6	9.9	10.3	10.2	10.4	10.2	10.4	10.6	10.4
90°	10.5	12.5	14.2	15.9	17.7	19.4	20.4	21.5	22.6	23.7	24.5
92.5°	18.7	19.0	19.9	20.8	21.6	22.5	23.1	23.6	24.2	24.7	25.1
95°	34.5	31.8	33.3	34.8	36.3	37.8	38.9	39.9	41.0	42.1	42.5
97.5°	44.9	36.6	40.1	43.6	47.1	50.6	51.4	52.3	53.2	54.0	54.6
100°	53.6	40.6	44.3	47.9	51.6	55.2	57.0	58.7	60.4	62.1	63.2
102.5°	197.7	179.3	148.6	118.0	87.4	56.8	59.0	61.2	63.5	65.8	67.2
105°	320.4	294.3	235.5	176.7	117.9	59.1	61.5	63.8	66.2	68.6	70.2
107.5°	397.4	364.8	294.3	223.8	153.3	82.8	80.3	78.0	75.5	73.1	72.3
110°	447.3	418.5	356.3	294.1	231.8	169.6	148.1	126.5	105.0	83.4	73.1



TEST NUMBER: P331837-927

CATALOG NUMBER: S122RDIW-S865D1240U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	495.0	489.3	473.9	458.5	443.1	427.7	349.2	270.6	192.1	113.5	74.5
115°	571.9	576.4	581.8	587.2	592.6	597.9	498.2	398.5	298.8	199.1	141.5
117.5°	643.6	647.5	651.1	654.8	658.5	662.3	638.1	614.0	589.9	565.8	528.2
120°	691.3	694.8	698.7	702.6	706.5	710.3	712.9	715.5	718.0	720.6	707.4
122.5°	735.4	739.2	743.4	747.6	751.9	756.1	757.6	759.1	760.7	762.2	760.2
125°	799.0	802.5	806.6	810.6	814.8	818.9	820.4	821.9	823.4	824.9	825.9
127.5°	860.2	863.2	866.3	869.3	872.4	875.4	877.7	879.8	882.0	884.2	885.4
130°	899.5	902.4	904.8	907.1	909.5	911.9	914.3	916.6	919.0	921.3	922.4
132.5°	936.2	938.8	941.2	943.6	945.9	948.3	950.3	952.4	954.3	956.4	957.3
135°	988.6	991.3	993.2	995.2	997.1	999.1	1001.2	1003.4	1005.5	1007.7	1008.5
137.5°	1035.5	1037.8	1040.0	1042.2	1044.3	1046.6	1048.7	1050.8	1052.9	1055.0	1055.7
140°	1066.0	1068.1	1070.5	1072.9	1075.2	1077.6	1079.5	1081.5	1083.4	1085.4	1085.8
142.5°	1093.3	1095.4	1098.1	1100.8	1103.5	1106.3	1108.0	1109.8	1111.6	1113.3	1113.6
145°	1130.0	1131.7	1135.4	1139.1	1142.7	1146.4	1147.9	1149.4	1150.9	1152.4	1152.6
147.5°	1165.8	1167.2	1170.8	1174.4	1178.1	1181.6	1182.8	1183.9	1185.0	1186.1	1186.2
150°	1187.8	1188.8	1192.2	1195.7	1199.1	1202.6	1203.9	1205.1	1206.5	1207.8	1207.8
152.5°	1208.1	1208.9	1212.1	1215.4	1218.7	1221.9	1223.3	1224.6	1225.8	1227.2	1227.1
155°	1237.5	1237.8	1240.4	1242.9	1245.5	1248.2	1249.4	1250.7	1252.0	1253.3	1253.1
157.5°	1262.5	1262.6	1264.4	1266.2	1268.0	1269.9	1271.3	1272.8	1274.2	1275.7	1275.6
160°	1277.9	1277.9	1279.1	1280.4	1281.8	1283.0	1284.3	1285.6	1286.9	1288.2	1288.1
162.5°	1290.2	1290.1	1291.3	1292.4	1293.6	1294.7	1296.1	1297.6	1299.0	1300.5	1300.3
165°	1306.9	1306.6	1307.3	1307.9	1308.5	1309.2	1310.7	1312.2	1313.7	1315.2	1315.2
167.5°	1319.3	1319.0	1319.6	1320.2	1320.8	1321.4	1322.9	1324.4	1325.9	1327.4	1327.2
170°	1326.3	1325.9	1326.3	1326.7	1327.1	1327.6	1329.1	1330.6	1332.1	1333.6	1333.4
172.5°	1330.9	1330.5	1330.9	1331.3	1331.8	1332.2	1333.7	1335.2	1336.7	1338.2	1338.1
175°	1336.1	1335.5	1336.0	1336.4	1336.9	1337.3	1338.8	1340.3	1341.8	1343.3	1343.0
177.5°	1338.2	1337.8	1337.9	1338.1	1338.2	1338.5	1339.7	1340.8	1342.0	1343.3	1343.1
180°	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2



TEST NUMBER: P331837-927

CATALOG NUMBER: S122RDIW-S865D1240U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8
2.5°	1452.6	1453.4	1452.1	1453.0	1452.1	1453.4	1452.6	1457.2	1458.1	1458.9	1458.1
5°	1353.4	1347.2	1346.1	1344.6	1346.1	1347.2	1353.4	1356.1	1358.2	1362.4	1369.8
7.5°	1235.1	1234.1	1231.5	1227.9	1231.5	1234.1	1235.1	1244.1	1251.3	1259.5	1274.5
10°	1159.0	1156.3	1155.9	1152.1	1155.9	1156.3	1159.0	1170.5	1178.9	1190.5	1211.0
12.5°	1069.8	1052.9	1051.1	1042.0	1051.1	1052.9	1069.8	1084.7	1107.5	1118.6	1140.3
15°	910.9	907.8	897.2	890.4	897.2	907.8	910.9	923.5	931.9	962.4	997.6
17.5°	820.1	809.8	806.5	805.0	806.5	809.8	820.1	826.2	838.1	854.2	875.4
20°	761.6	752.2	750.6	749.6	750.6	752.2	761.6	769.0	778.5	795.8	817.8
22.5°	721.3	711.4	707.3	704.1	707.3	711.4	721.3	726.9	735.5	749.1	764.1
25°	652.3	648.6	646.5	645.5	646.5	648.6	652.3	657.5	666.0	684.4	700.1
27.5°	598.3	590.3	588.7	586.0	588.7	590.3	598.3	607.7	616.5	624.7	638.8
30°	567.7	565.1	561.3	558.2	561.3	565.1	567.7	572.4	578.2	592.4	606.0
32.5°	531.5	529.3	526.0	524.6	526.0	529.3	531.5	537.9	550.0	558.7	568.6
35°	491.5	484.1	480.9	476.2	480.9	484.1	491.5	496.7	501.5	508.8	526.6
37.5°	449.1	445.2	440.8	442.4	440.8	445.2	449.1	451.3	461.3	471.5	479.3
40°	416.3	413.7	412.6	412.1	412.6	413.7	416.3	423.1	435.2	440.0	451.5
42.5°	390.2	382.9	380.2	380.1	380.2	382.9	390.2	397.9	405.4	413.0	425.0
45°	350.6	343.7	339.1	339.5	339.1	343.7	350.6	353.2	359.5	374.8	381.6
47.5°	310.0	309.8	306.9	307.8	306.9	309.8	310.0	314.5	322.7	332.0	342.9
50°	290.7	287.5	285.4	285.9	285.4	287.5	290.7	294.4	299.0	303.8	320.6
52.5°	272.2	269.4	267.8	270.0	267.8	269.4	272.2	274.2	277.7	282.3	293.7
55°	241.8	238.6	238.1	237.6	238.1	238.6	241.8	244.4	248.6	252.3	257.5
57.5°	207.9	205.7	202.6	201.2	202.6	205.7	207.9	211.8	216.7	221.6	227.0
60°	183.5	179.3	174.0	173.5	174.0	179.3	183.5	190.3	192.3	199.7	206.0
62.5°	161.1	160.3	159.2	159.1	159.2	160.3	161.1	163.3	166.3	177.1	184.6
65°	141.4	140.9	141.4	141.9	141.4	140.9	141.4	142.4	143.0	144.0	147.2
67.5°	123.2	122.2	121.3	121.8	121.3	122.2	123.2	123.4	124.8	125.5	127.7
70°	109.3	108.8	108.3	108.3	108.3	108.8	109.3	110.4	111.5	112.5	115.1
72.5°	95.9	95.8	95.2	94.8	95.2	95.8	95.9	97.8	98.4	99.4	101.2
75°	76.8	75.7	75.7	75.7	75.7	75.7	76.8	77.2	77.8	79.4	80.4
77.5°	58.5	57.9	57.4	57.0	57.4	57.9	58.5	58.5	59.4	59.7	60.8
80°	46.3	45.7	45.2	45.2	45.2	45.7	46.3	46.8	46.8	48.3	47.8
82.5°	35.3	34.8	34.7	34.3	34.7	34.8	35.3	35.4	35.4	36.6	36.4
85°	18.9	19.4	18.9	20.0	18.9	19.4	18.9	18.4	18.9	20.0	20.0
87.5°	10.5	10.1	10.6	10.3	10.6	10.1	10.5	10.4	10.6	10.4	10.2
90°	24.9	25.3	25.7	26.1	25.7	25.3	24.9	24.5	23.7	22.6	21.5
92.5°	25.3	25.7	25.9	26.1	25.9	25.7	25.3	25.1	24.7	24.2	23.6
95°	42.3	42.1	41.9	41.7	41.9	42.1	42.3	42.5	42.1	41.0	39.9
97.5°	54.8	55.1	55.4	55.6	55.4	55.1	54.8	54.6	54.0	53.2	52.3
100°	63.6	64.1	64.5	65.0	64.5	64.1	63.6	63.2	62.1	60.4	58.7
102.5°	67.7	68.4	69.0	69.6	69.0	68.4	67.7	67.2	65.8	63.5	61.2
105°	71.1	71.9	72.8	73.7	72.8	71.9	71.1	70.2	68.6	66.2	63.8
107.5°	73.2	74.1	74.9	75.8	74.9	74.1	73.2	72.3	73.1	75.5	78.0
110°	74.0	74.9	75.7	76.5	75.7	74.9	74.0	73.1	83.4	105.0	126.5



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	75.3	76.0	76.6	77.3	76.6	76.0	75.3	74.5	113.5	192.1	270.6
115°	126.0	110.5	95.0	79.5	95.0	110.5	126.0	141.5	199.1	298.8	398.5
117.5°	477.3	426.4	375.4	324.4	375.4	426.4	477.3	528.2	565.8	589.9	614.0
120°	678.3	649.3	620.2	591.1	620.2	649.3	678.3	707.4	720.6	718.0	715.5
122.5°	754.6	748.9	743.3	737.6	743.3	748.9	754.6	760.2	762.2	760.7	759.1
125°	826.6	827.3	827.9	828.5	827.9	827.3	826.6	825.9	824.9	823.4	821.9
127.5°	885.5	885.7	885.7	885.9	885.7	885.7	885.5	885.4	884.2	882.0	879.8
130°	922.2	922.0	921.8	921.5	921.8	922.0	922.2	922.4	921.3	919.0	916.6
132.5°	957.1	956.9	956.6	956.5	956.6	956.9	957.1	957.3	956.4	954.3	952.4
135°	1008.1	1007.7	1007.3	1006.9	1007.3	1007.7	1008.1	1008.5	1007.7	1005.5	1003.4
137.5°	1054.9	1054.2	1053.5	1052.7	1053.5	1054.2	1054.9	1055.7	1055.0	1052.9	1050.8
140°	1084.7	1083.6	1082.5	1081.5	1082.5	1083.6	1084.7	1085.8	1085.4	1083.4	1081.5
142.5°	1112.6	1111.5	1110.4	1109.4	1110.4	1111.5	1112.6	1113.6	1113.3	1111.6	1109.8
145°	1151.5	1150.5	1149.4	1148.3	1149.4	1150.5	1151.5	1152.6	1152.4	1150.9	1149.4
147.5°	1185.3	1184.4	1183.5	1182.6	1183.5	1184.4	1185.3	1186.2	1186.1	1185.0	1183.9
150°	1206.8	1205.7	1204.6	1203.6	1204.6	1205.7	1206.8	1207.8	1207.8	1206.5	1205.1
152.5°	1225.7	1224.2	1222.8	1221.4	1222.8	1224.2	1225.7	1227.1	1227.2	1225.8	1224.6
155°	1251.3	1249.7	1247.9	1246.2	1247.9	1249.7	1251.3	1253.1	1253.3	1252.0	1250.7
157.5°	1273.9	1272.2	1270.6	1268.8	1270.6	1272.2	1273.9	1275.6	1275.7	1274.2	1272.8
160°	1286.6	1285.1	1283.6	1282.1	1283.6	1285.1	1286.6	1288.1	1288.2	1286.9	1285.6
162.5°	1298.5	1296.6	1294.7	1292.9	1294.7	1296.6	1298.5	1300.3	1300.5	1299.0	1297.6
165°	1313.7	1312.2	1310.7	1309.2	1310.7	1312.2	1313.7	1315.2	1315.2	1313.7	1312.2
167.5°	1325.2	1323.3	1321.4	1319.5	1321.4	1323.3	1325.2	1327.2	1327.4	1325.9	1324.4
170°	1331.5	1329.5	1327.6	1325.6	1327.6	1329.5	1331.5	1333.4	1333.6	1332.1	1330.6
172.5°	1336.1	1334.2	1332.2	1330.3	1332.2	1334.2	1336.1	1338.1	1338.2	1336.7	1335.2
175°	1340.8	1338.7	1336.5	1334.4	1336.5	1338.7	1340.8	1343.0	1343.3	1341.8	1340.3
177.5°	1341.6	1340.0	1338.5	1336.9	1338.5	1340.0	1341.6	1343.1	1343.3	1342.0	1340.8
180°	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8
2.5°	1454.7	1460.6	1469.4	1474.5	1482.9	1488.4	1491.3	1496.7	1499.7	1510.2	1521.1
5°	1373.4	1381.9	1396.5	1410.2	1425.0	1440.2	1451.2	1463.9	1475.4	1495.4	1516.4
7.5°	1280.3	1292.0	1314.8	1336.6	1362.2	1383.8	1402.8	1424.3	1443.6	1472.2	1502.0
10°	1210.5	1231.0	1261.0	1281.4	1315.1	1336.6	1366.6	1390.3	1417.1	1454.9	1488.6
12.5°	1150.4	1175.0	1199.1	1227.6	1257.9	1293.8	1326.7	1357.0	1388.9	1428.0	1467.5
15°	1041.2	1077.0	1114.3	1143.2	1184.2	1222.1	1260.4	1301.4	1340.3	1387.1	1438.6
17.5°	900.8	942.2	1005.0	1054.5	1102.6	1140.6	1188.1	1237.7	1283.6	1340.0	1397.3
20°	837.3	867.8	910.4	977.2	1049.6	1090.1	1138.5	1193.2	1245.7	1307.2	1368.7
22.5°	786.4	813.6	847.7	899.8	980.7	1035.9	1086.3	1141.9	1202.8	1265.6	1333.8
25°	713.8	732.7	768.4	810.5	866.3	957.1	1012.3	1068.0	1134.3	1201.6	1279.4
27.5°	659.3	676.3	699.5	739.7	781.1	846.4	934.1	994.9	1060.9	1136.6	1217.3
30°	617.6	637.5	663.3	691.7	736.9	787.9	875.7	946.1	1011.3	1089.1	1175.3
32.5°	587.3	603.1	625.0	653.9	691.5	740.4	810.5	896.0	959.6	1041.6	1131.6
35°	537.7	556.1	574.0	601.3	631.8	676.4	729.5	821.0	884.1	965.0	1055.4
37.5°	496.8	508.0	527.8	549.5	581.6	615.0	661.0	743.0	811.3	890.7	983.3
40°	465.7	479.9	494.6	518.8	545.1	577.1	622.3	683.3	761.6	839.4	929.8
42.5°	435.5	453.4	469.0	485.1	514.0	546.1	582.8	634.5	714.5	788.1	876.0
45°	398.9	410.5	426.8	444.7	468.3	495.7	528.2	573.5	650.2	713.8	796.3
47.5°	356.5	373.4	384.0	401.5	424.0	450.0	480.3	519.4	581.5	641.1	717.7
50°	327.5	344.8	360.0	375.8	395.8	421.0	446.2	484.1	534.0	596.6	668.0
52.5°	302.6	317.9	332.7	348.5	368.0	391.2	415.1	448.4	491.2	548.7	618.1
55°	268.6	278.1	293.3	309.0	326.4	348.5	371.6	399.5	436.3	484.7	540.9
57.5°	233.7	244.6	256.7	272.6	290.2	307.0	327.9	353.1	382.1	425.9	474.0
60°	213.9	222.4	232.3	248.6	264.9	280.1	300.2	321.2	348.5	386.3	427.3
62.5°	192.0	200.0	209.2	223.4	239.2	253.3	270.7	292.9	316.1	350.6	386.5
65°	155.6	167.2	176.1	188.7	201.8	216.6	230.2	248.1	268.6	296.0	328.0
67.5°	129.0	134.9	143.1	154.6	168.1	180.7	193.6	207.6	225.4	246.5	272.0
70°	117.2	119.3	120.9	131.9	144.6	157.2	169.2	182.4	197.6	215.0	237.0
72.5°	103.3	105.4	107.4	112.2	122.2	134.9	147.3	157.2	171.6	185.9	203.8
75°	82.0	85.2	86.7	89.4	93.0	101.5	113.0	122.5	130.9	141.9	156.1
77.5°	62.4	64.2	65.9	68.7	71.0	74.9	81.4	89.9	97.8	104.2	113.9
80°	49.4	49.9	52.0	53.1	56.2	58.9	62.0	68.8	76.8	79.4	86.2
82.5°	37.2	37.7	39.5	40.5	41.9	44.1	48.2	49.9	56.2	59.6	63.9
85°	20.5	20.0	21.5	21.5	22.6	23.7	24.7	27.3	28.9	33.1	34.1
87.5°	10.4	10.2	10.3	9.9	9.6	10.1	10.1	10.1	10.4	11.2	12.4
90°	20.4	19.4	17.7	15.9	14.2	12.5	10.5	8.1	5.7	3.3	1.0
92.5°	23.1	22.5	21.6	20.8	19.9	19.0	18.7	18.9	19.2	19.3	19.6
95°	38.9	37.8	36.3	34.8	33.3	31.8	34.5	41.7	48.8	55.8	63.0
97.5°	51.4	50.6	47.1	43.6	40.1	36.6	44.9	65.0	84.9	105.0	125.0
100°	57.0	55.2	51.6	47.9	44.3	40.6	53.6	83.0	112.5	142.0	171.5
102.5°	59.0	56.8	87.4	118.0	148.6	179.3	197.7	204.0	210.2	216.4	222.7
105°	61.5	59.1	117.9	176.7	235.5	294.3	320.4	313.9	307.5	301.0	294.6
107.5°	80.3	82.8	153.3	223.8	294.3	364.8	397.4	392.2	387.0	381.8	376.6
110°	148.1	169.6	231.8	294.1	356.3	418.5	447.3	442.8	438.3	433.8	429.3



TEST NUMBER: P331837-927

CATALOG NUMBER: S122RDIW-S865D1240U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	349.2	427.7	443.1	458.5	473.9	489.3	495.0	490.9	486.9	482.9	478.9
115°	498.2	597.9	592.6	587.2	581.8	576.4	571.9	568.2	564.5	560.9	557.2
117.5°	638.1	662.3	658.5	654.8	651.1	647.5	643.6	639.4	635.3	631.3	627.2
120°	712.9	710.3	706.5	702.6	698.7	694.8	691.3	688.0	684.8	681.6	678.3
122.5°	757.6	756.1	751.9	747.6	743.4	739.2	735.4	732.0	728.6	725.2	721.8
125°	820.4	818.9	814.8	810.6	806.6	802.5	799.0	796.2	793.4	790.6	787.8
127.5°	877.7	875.4	872.4	869.3	866.3	863.2	860.2	857.1	853.9	850.8	847.7
130°	914.3	911.9	909.5	907.1	904.8	902.4	899.5	896.0	892.6	889.1	885.7
132.5°	950.3	948.3	945.9	943.6	941.2	938.8	936.2	933.3	930.3	927.4	924.5
135°	1001.2	999.1	997.1	995.2	993.2	991.3	988.6	985.2	981.8	978.3	974.9
137.5°	1048.7	1046.6	1044.3	1042.2	1040.0	1037.8	1035.5	1033.1	1030.6	1028.3	1025.8
140°	1079.5	1077.6	1075.2	1072.9	1070.5	1068.1	1066.0	1064.3	1062.6	1060.9	1059.1
142.5°	1108.0	1106.3	1103.5	1100.8	1098.1	1095.4	1093.3	1091.7	1090.2	1088.6	1087.1
145°	1147.9	1146.4	1142.7	1139.1	1135.4	1131.7	1130.0	1130.2	1130.4	1130.7	1130.8
147.5°	1182.8	1181.6	1178.1	1174.4	1170.8	1167.2	1165.8	1166.6	1167.4	1168.2	1169.0
150°	1203.9	1202.6	1199.1	1195.7	1192.2	1188.8	1187.8	1189.3	1190.9	1192.4	1193.9
152.5°	1223.3	1221.9	1218.7	1215.4	1212.1	1208.9	1208.1	1209.7	1211.4	1213.1	1214.8
155°	1249.4	1248.2	1245.5	1242.9	1240.4	1237.8	1237.5	1239.4	1241.3	1243.3	1245.2
157.5°	1271.3	1269.9	1268.0	1266.2	1264.4	1262.6	1262.5	1264.2	1265.7	1267.4	1269.1
160°	1284.3	1283.0	1281.8	1280.4	1279.1	1277.9	1277.9	1279.1	1280.4	1281.8	1283.0
162.5°	1296.1	1294.7	1293.6	1292.4	1291.3	1290.1	1290.2	1291.6	1292.8	1294.1	1295.5
165°	1310.7	1309.2	1308.5	1307.9	1307.3	1306.6	1306.9	1308.2	1309.5	1310.8	1312.1
167.5°	1322.9	1321.4	1320.8	1320.2	1319.6	1319.0	1319.3	1320.6	1321.9	1323.2	1324.5
170°	1329.1	1327.6	1327.1	1326.7	1326.3	1325.9	1326.3	1327.6	1328.9	1330.2	1331.5
172.5°	1333.7	1332.2	1331.8	1331.3	1330.9	1330.5	1330.9	1332.2	1333.6	1334.8	1336.1
175°	1338.8	1337.3	1336.9	1336.4	1336.0	1335.5	1336.1	1337.6	1339.1	1340.6	1342.1
177.5°	1339.7	1338.5	1338.2	1338.1	1337.9	1337.8	1338.2	1339.5	1340.7	1341.9	1343.1
180°	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2



TEST NUMBER: P331837-927

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8
2.5°	1521.5	1522.8	1531.2	1535.0	1542.6	1545.5	1548.9	1548.1	1548.1	1549.7	1561.5
5°	1524.8	1535.3	1551.1	1566.4	1581.0	1593.7	1602.1	1610.5	1613.7	1628.9	1642.6
7.5°	1519.3	1538.7	1564.8	1588.0	1615.9	1637.6	1655.7	1672.0	1683.1	1705.3	1728.1
10°	1512.2	1539.5	1569.0	1598.9	1637.3	1666.2	1695.7	1718.2	1725.6	1758.7	1777.7
12.5°	1497.9	1534.5	1571.9	1610.7	1648.2	1688.1	1720.5	1743.0	1768.9	1798.6	1833.6
15°	1476.5	1518.5	1567.4	1617.3	1671.0	1719.3	1754.0	1793.4	1821.8	1854.4	1884.8
17.5°	1445.7	1499.8	1561.9	1619.8	1681.8	1733.7	1781.5	1819.2	1839.2	1857.8	1862.3
20°	1421.3	1479.6	1552.7	1621.0	1683.1	1743.0	1790.3	1821.8	1827.1	1827.6	1799.8
22.5°	1394.8	1460.7	1537.2	1607.1	1681.3	1748.0	1784.8	1798.3	1777.4	1741.8	1687.9
25°	1346.1	1422.4	1511.2	1591.0	1672.0	1735.0	1747.7	1724.0	1651.0	1574.2	1477.0
27.5°	1293.3	1379.0	1474.3	1563.1	1649.3	1688.4	1661.2	1575.9	1444.3	1329.9	1191.3
30°	1254.7	1350.8	1444.4	1543.7	1623.7	1640.5	1577.9	1452.3	1298.8	1126.4	988.2
32.5°	1210.5	1311.3	1414.1	1516.9	1583.7	1567.3	1464.0	1309.3	1129.3	959.9	829.3
35°	1147.4	1251.5	1362.4	1465.5	1508.0	1437.0	1282.5	1081.2	897.2	739.0	649.1
37.5°	1074.6	1187.9	1303.2	1397.8	1394.8	1276.5	1066.0	858.3	703.6	610.1	546.1
40°	1022.9	1137.4	1262.0	1341.9	1307.7	1153.7	925.6	729.5	616.6	541.9	495.1
42.5°	973.3	1088.2	1212.0	1275.5	1216.1	1026.7	799.5	645.9	552.6	494.4	456.5
45°	888.8	1010.3	1124.8	1160.1	1053.8	845.2	646.5	535.1	473.1	429.9	403.7
47.5°	806.3	925.7	1030.3	1030.9	887.3	685.4	545.4	463.1	410.1	376.8	357.7
50°	755.8	869.3	957.1	943.5	780.5	609.7	487.7	416.8	372.6	346.9	326.9
52.5°	699.1	809.2	885.3	846.4	690.1	536.5	436.0	376.4	339.8	317.5	299.6
55°	616.6	714.3	767.9	709.1	562.9	446.2	368.4	321.7	294.4	275.4	260.2
57.5°	535.5	616.2	649.9	581.3	463.7	370.0	311.7	276.6	249.5	235.9	228.0
60°	484.7	553.5	577.1	501.5	403.1	323.8	275.9	243.4	223.4	214.4	206.6
62.5°	434.6	490.8	500.6	431.2	351.4	283.4	242.3	214.8	201.5	193.0	185.5
65°	360.6	401.1	396.3	340.6	278.1	225.0	195.0	178.2	168.2	156.1	143.0
67.5°	296.8	321.5	306.7	264.9	212.2	174.8	155.3	142.5	130.2	118.7	115.7
70°	256.5	270.7	254.9	216.6	174.0	146.6	130.9	115.7	108.3	105.7	100.9
72.5°	217.9	222.8	205.7	172.9	141.6	121.4	106.1	97.5	93.6	91.3	88.3
75°	163.5	159.8	145.0	119.3	98.3	84.6	79.9	76.8	74.1	72.0	70.4
77.5°	114.8	109.4	96.3	79.5	68.4	61.9	59.1	57.4	56.2	55.1	53.5
80°	86.2	82.5	69.4	56.8	52.0	48.9	47.3	45.2	45.2	44.1	42.5
82.5°	63.1	58.9	47.5	41.6	39.0	37.1	36.0	34.7	34.3	34.5	33.4
85°	33.1	26.8	23.7	22.6	21.0	20.0	20.5	19.4	19.4	19.4	18.9
87.5°	10.8	9.1	9.2	9.3	10.1	10.4	10.3	10.7	11.4	11.2	11.9
90°	3.3	5.7	8.1	10.5	12.5	14.2	15.9	17.7	19.4	20.4	21.5
92.5°	19.3	19.2	18.9	18.7	19.0	19.9	20.8	21.6	22.5	23.1	23.6
95°	55.8	48.8	41.7	34.5	31.8	33.3	34.8	36.3	37.8	38.9	39.9
97.5°	105.0	84.9	65.0	44.9	36.6	40.1	43.6	47.1	50.6	51.4	52.3
100°	142.0	112.5	83.0	53.6	40.6	44.3	47.9	51.6	55.2	57.0	58.7
102.5°	216.4	210.2	204.0	197.7	179.3	148.6	118.0	87.4	56.8	59.0	61.2
105°	301.0	307.5	313.9	320.4	294.3	235.5	176.7	117.9	59.1	61.5	63.8
107.5°	381.8	387.0	392.2	397.4	364.8	294.3	223.8	153.3	82.8	80.3	78.0
110°	433.8	438.3	442.8	447.3	418.5	356.3	294.1	231.8	169.6	148.1	126.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	482.9	486.9	490.9	495.0	489.3	473.9	458.5	443.1	427.7	349.2	270.6
115°	560.9	564.5	568.2	571.9	576.4	581.8	587.2	592.6	597.9	498.2	398.5
117.5°	631.3	635.3	639.4	643.6	647.5	651.1	654.8	658.5	662.3	638.1	614.0
120°	681.6	684.8	688.0	691.3	694.8	698.7	702.6	706.5	710.3	712.9	715.5
122.5°	725.2	728.6	732.0	735.4	739.2	743.4	747.6	751.9	756.1	757.6	759.1
125°	790.6	793.4	796.2	799.0	802.5	806.6	810.6	814.8	818.9	820.4	821.9
127.5°	850.8	853.9	857.1	860.2	863.2	866.3	869.3	872.4	875.4	877.7	879.8
130°	889.1	892.6	896.0	899.5	902.4	904.8	907.1	909.5	911.9	914.3	916.6
132.5°	927.4	930.3	933.3	936.2	938.8	941.2	943.6	945.9	948.3	950.3	952.4
135°	978.3	981.8	985.2	988.6	991.3	993.2	995.2	997.1	999.1	1001.2	1003.4
137.5°	1028.3	1030.6	1033.1	1035.5	1037.8	1040.0	1042.2	1044.3	1046.6	1048.7	1050.8
140°	1060.9	1062.6	1064.3	1066.0	1068.1	1070.5	1072.9	1075.2	1077.6	1079.5	1081.5
142.5°	1088.6	1090.2	1091.7	1093.3	1095.4	1098.1	1100.8	1103.5	1106.3	1108.0	1109.8
145°	1130.7	1130.4	1130.2	1130.0	1131.7	1135.4	1139.1	1142.7	1146.4	1147.9	1149.4
147.5°	1168.2	1167.4	1166.6	1165.8	1167.2	1170.8	1174.4	1178.1	1181.6	1182.8	1183.9
150°	1192.4	1190.9	1189.3	1187.8	1188.8	1192.2	1195.7	1199.1	1202.6	1203.9	1205.1
152.5°	1213.1	1211.4	1209.7	1208.1	1208.9	1212.1	1215.4	1218.7	1221.9	1223.3	1224.6
155°	1243.3	1241.3	1239.4	1237.5	1237.8	1240.4	1242.9	1245.5	1248.2	1249.4	1250.7
157.5°	1267.4	1265.7	1264.2	1262.5	1262.6	1264.4	1266.2	1268.0	1269.9	1271.3	1272.8
160°	1281.8	1280.4	1279.1	1277.9	1277.9	1279.1	1280.4	1281.8	1283.0	1284.3	1285.6
162.5°	1294.1	1292.8	1291.6	1290.2	1290.1	1291.3	1292.4	1293.6	1294.7	1296.1	1297.6
165°	1310.8	1309.5	1308.2	1306.9	1306.6	1307.3	1307.9	1308.5	1309.2	1310.7	1312.2
167.5°	1323.2	1321.9	1320.6	1319.3	1319.0	1319.6	1320.2	1320.8	1321.4	1322.9	1324.4
170°	1330.2	1328.9	1327.6	1326.3	1325.9	1326.3	1326.7	1327.1	1327.6	1329.1	1330.6
172.5°	1334.8	1333.6	1332.2	1330.9	1330.5	1330.9	1331.3	1331.8	1332.2	1333.7	1335.2
175°	1340.6	1339.1	1337.6	1336.1	1335.5	1336.0	1336.4	1336.9	1337.3	1338.8	1340.3
177.5°	1341.9	1340.7	1339.5	1338.2	1337.8	1337.9	1338.1	1338.2	1338.5	1339.7	1340.8
180°	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8
2.5°	1565.7	1571.2	1573.7	1573.7	1576.7	1575.4	1574.1
5°	1655.7	1665.7	1667.8	1677.3	1684.1	1682.0	1683.1
7.5°	1745.2	1761.3	1777.1	1784.4	1785.5	1789.7	1791.3
10°	1800.2	1813.4	1838.1	1834.4	1852.8	1863.3	1845.9
12.5°	1853.2	1871.0	1888.2	1892.8	1903.3	1906.6	1899.8
15°	1901.2	1910.7	1911.7	1909.1	1912.2	1909.6	1899.6
17.5°	1856.4	1841.0	1809.9	1795.2	1783.5	1766.3	1759.4
20°	1782.4	1737.2	1684.6	1663.6	1638.9	1590.5	1602.1
22.5°	1622.6	1571.1	1518.5	1457.1	1427.8	1382.0	1379.2
25°	1374.0	1285.2	1187.4	1119.0	1079.1	1033.4	1013.4
27.5°	1068.3	956.4	876.3	835.8	798.8	762.6	761.1
30°	867.3	783.2	721.1	686.4	663.8	648.6	651.8
32.5°	731.0	673.4	631.6	602.8	586.1	574.6	574.4
35°	597.6	558.2	531.4	519.3	507.2	498.8	499.3
37.5°	511.4	487.7	472.9	459.5	451.9	447.8	445.5
40°	467.3	447.8	436.3	428.4	422.1	416.3	415.3
42.5°	432.4	416.3	404.7	398.5	392.6	388.6	387.5
45°	383.7	370.6	360.0	353.2	350.6	346.9	346.9
47.5°	341.4	328.4	320.2	315.9	311.4	309.0	308.9
50°	312.8	302.8	295.4	292.8	289.1	287.5	287.0
52.5°	287.1	279.6	274.4	272.6	271.0	269.0	269.3
55°	252.3	248.1	246.0	244.4	241.8	238.6	240.7
57.5°	223.0	219.4	213.7	208.7	206.4	204.1	205.0
60°	202.4	195.0	187.7	181.9	180.3	175.5	175.5
62.5°	176.3	166.0	156.9	153.7	152.1	149.9	149.5
65°	135.6	131.4	129.3	127.2	126.1	126.1	125.1
67.5°	112.4	110.7	108.4	107.9	106.8	106.5	106.2
70°	99.3	97.2	96.2	95.7	94.6	95.1	93.6
72.5°	86.7	85.1	84.8	83.5	82.9	82.9	81.8
75°	68.4	68.4	67.8	67.3	66.2	65.7	66.2
77.5°	52.6	52.7	51.7	51.7	51.5	51.7	51.1
80°	42.1	42.5	42.1	41.5	41.0	41.5	41.0
82.5°	33.2	32.5	32.4	32.2	32.2	31.8	31.8
85°	18.9	19.4	18.9	18.4	18.4	18.4	18.9
87.5°	11.6	11.9	12.0	12.1	12.2	12.3	12.0
90°	22.6	23.7	24.5	24.9	25.3	25.7	26.1
92.5°	24.2	24.7	25.1	25.3	25.7	25.9	26.1
95°	41.0	42.1	42.5	42.3	42.1	41.9	41.7
97.5°	53.2	54.0	54.6	54.8	55.1	55.4	55.6
100°	60.4	62.1	63.2	63.6	64.1	64.5	65.0
102.5°	63.5	65.8	67.2	67.7	68.4	69.0	69.6
105°	66.2	68.6	70.2	71.1	71.9	72.8	73.7
107.5°	75.5	73.1	72.3	73.2	74.1	74.9	75.8
110°	105.0	83.4	73.1	74.0	74.9	75.7	76.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	192.1	113.5	74.5	75.3	76.0	76.6	77.3
115°	298.8	199.1	141.5	126.0	110.5	95.0	79.5
117.5°	589.9	565.8	528.2	477.3	426.4	375.4	324.4
120°	718.0	720.6	707.4	678.3	649.3	620.2	591.1
122.5°	760.7	762.2	760.2	754.6	748.9	743.3	737.6
125°	823.4	824.9	825.9	826.6	827.3	827.9	828.5
127.5°	882.0	884.2	885.4	885.5	885.7	885.7	885.9
130°	919.0	921.3	922.4	922.2	922.0	921.8	921.5
132.5°	954.3	956.4	957.3	957.1	956.9	956.6	956.5
135°	1005.5	1007.7	1008.5	1008.1	1007.7	1007.3	1006.9
137.5°	1052.9	1055.0	1055.7	1054.9	1054.2	1053.5	1052.7
140°	1083.4	1085.4	1085.8	1084.7	1083.6	1082.5	1081.5
142.5°	1111.6	1113.3	1113.6	1112.6	1111.5	1110.4	1109.4
145°	1150.9	1152.4	1152.6	1151.5	1150.5	1149.4	1148.3
147.5°	1185.0	1186.1	1186.2	1185.3	1184.4	1183.5	1182.6
150°	1206.5	1207.8	1207.8	1206.8	1205.7	1204.6	1203.6
152.5°	1225.8	1227.2	1227.1	1225.7	1224.2	1222.8	1221.4
155°	1252.0	1253.3	1253.1	1251.3	1249.7	1247.9	1246.2
157.5°	1274.2	1275.7	1275.6	1273.9	1272.2	1270.6	1268.8
160°	1286.9	1288.2	1288.1	1286.6	1285.1	1283.6	1282.1
162.5°	1299.0	1300.5	1300.3	1298.5	1296.6	1294.7	1292.9
165°	1313.7	1315.2	1315.2	1313.7	1312.2	1310.7	1309.2
167.5°	1325.9	1327.4	1327.2	1325.2	1323.3	1321.4	1319.5
170°	1332.1	1333.6	1333.4	1331.5	1329.5	1327.6	1325.6
172.5°	1336.7	1338.2	1338.1	1336.1	1334.2	1332.2	1330.3
175°	1341.8	1343.3	1343.0	1340.8	1338.7	1336.5	1334.4
177.5°	1342.0	1343.3	1343.1	1341.6	1340.0	1338.5	1336.9
180°	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2

(END OF REPORT)