

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

Luminaire Tested: **S125DIW-S850D1340U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333419  
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-S850D1340U835-4F0-1E-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**

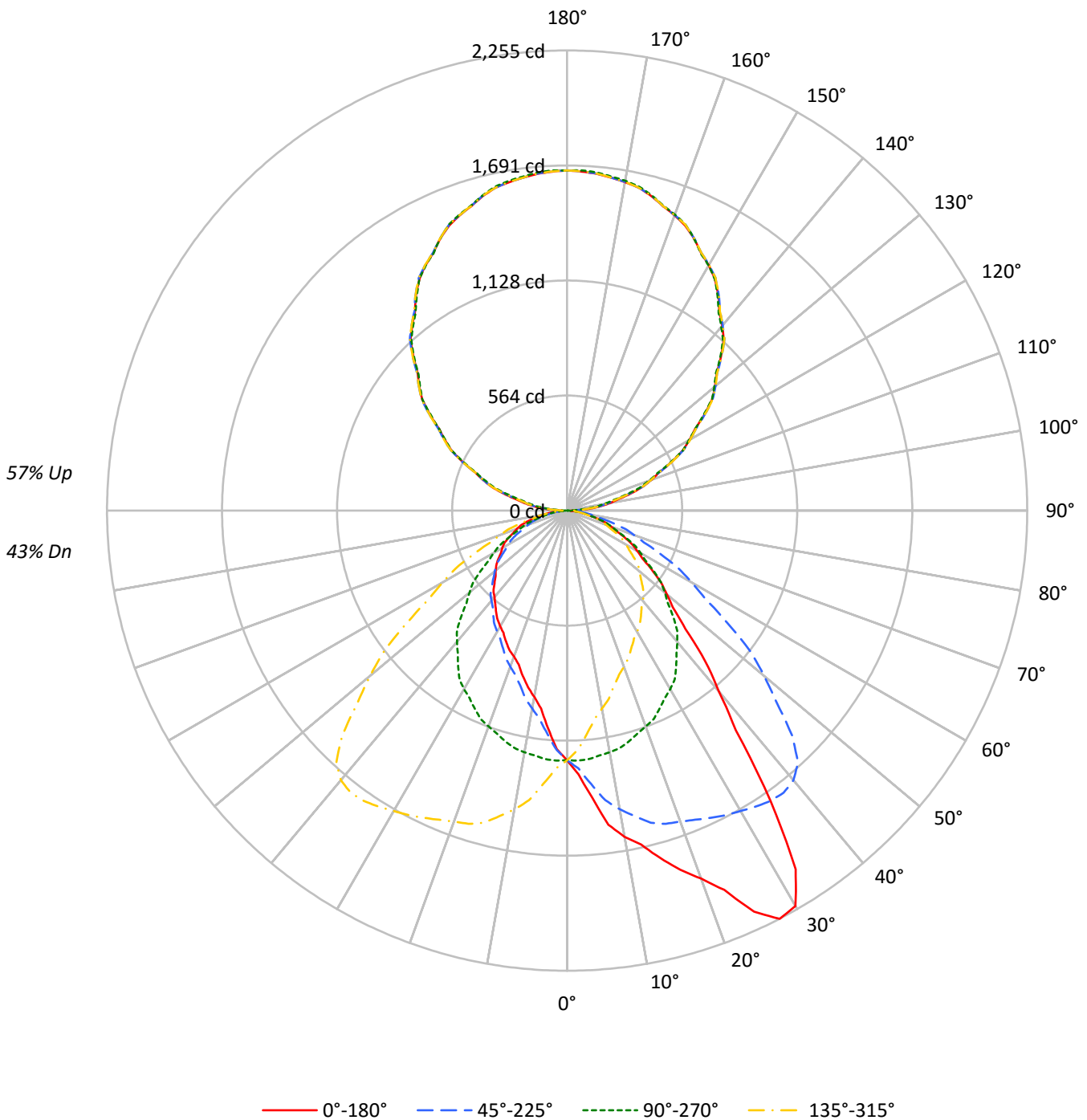
Lumens per Lamp: N/A  
Luminaire Lumens: 8107.0 lumens  
Efficiency: N/A  
Efficacy: 132.0 lumens/watt  
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.52  
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 61.4  
Input Voltage (V): 120  
Input Current (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										
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	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°	7901	7901	7901	7901
5°	9149	7927	6941	7927
10°	10645	7887	6082	7887
15°	11784	7829	5610	7829
20°	13190	7737	5232	7737
25°	15452	7633	5047	7633
30°	16690	7532	4887	7532
35°	13722	7340	4782	7340
40°	9754	7074	4666	7074
45°	7493	6716	4601	6716
50°	6396	6271	4591	6271
55°	5695	5835	4631	5835
60°	5137	5359	4748	5359
65°	4745	4879	4872	4879
70°	4315	4383	4942	4383
75°	3810	3860	4898	3860
80°	3206	3146	4482	3146
85°	2542	2267	3616	2267



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.8	1.5
10°-20°	350.7	4.3
20°-30°	569.4	7.0
30°-40°	694.5	8.6
40°-50°	631.8	7.8
50°-60°	503.3	6.2
60°-70°	350.5	4.3
70°-80°	186.9	2.3
80°-90°	50.8	0.6
90°-100°	111.6	1.4
100°-110°	329.7	4.1
110°-120°	558.4	6.9
120°-130°	734.9	9.1
130°-140°	823.5	10.2
140°-150°	807.1	10.0
150°-160°	677.9	8.4
160°-170°	450.6	5.6
170°-180°	157.7	1.9
0°-30°	1037.8	12.8
0°-40°	1732.4	21.4
0°-60°	2867.5	35.4
0°-90°	3455.8	42.6
90°-120°	999.7	12.3
90°-150°	3365.1	41.5
90°-180°	4651.0	57.4
0°-180°	8107.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1223	1223	1223	1223	1223	
5°	1411	1223	1071	1223	1411	142
15°	1762	1171	839	1171	1762	504
25°	2168	1071	708	1071	2168	990
35°	1740	931	606	931	1740	1065
45°	820	735	504	735	820	657
55°	506	518	411	518	506	455
65°	310	319	319	319	310	308
75°	153	155	196	155	153	164
85°	34	31	49	31	34	40
90°	31	1	31	1	31	19
95°	112	84	112	84	112	114
105°	322	296	322	296	322	341
115°	564	559	564	559	564	558
125°	821	816	821	816	821	733
135°	1065	1061	1065	1061	1065	822
145°	1291	1286	1291	1286	1291	806
155°	1471	1471	1471	1471	1471	677
165°	1596	1599	1596	1599	1596	450
175°	1656	1663	1656	1663	1656	157
180°	1667	1667	1667	1667	1667	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4
2.5°	1294.0	1292.3	1290.7	1287.3	1289.8	1282.8	1279.4	1273.6	1266.6	1264.1	1261.2
5°	1411.3	1413.9	1416.5	1405.6	1406.7	1399.4	1382.8	1369.3	1358.4	1344.4	1334.5
7.5°	1552.6	1546.4	1545.9	1538.9	1526.7	1517.0	1499.5	1477.3	1455.8	1431.3	1411.0
10°	1623.2	1623.7	1619.0	1610.7	1597.8	1588.4	1565.6	1543.7	1517.3	1486.1	1463.8
12.5°	1676.4	1678.5	1672.6	1661.4	1655.1	1634.1	1616.2	1590.3	1558.8	1533.9	1499.9
15°	1762.4	1756.6	1752.5	1738.5	1727.6	1705.8	1677.2	1650.2	1615.9	1584.2	1552.6
17.5°	1845.2	1849.8	1842.0	1829.2	1795.4	1769.9	1731.6	1694.6	1652.0	1609.5	1571.7
20°	1919.2	1923.3	1911.4	1889.1	1848.6	1823.1	1772.7	1725.0	1675.6	1621.1	1579.6
22.5°	2011.4	2008.1	1992.0	1958.0	1922.9	1875.9	1821.3	1763.2	1701.4	1639.8	1584.6
25°	2168.4	2146.6	2136.7	2094.7	2048.5	1979.4	1904.6	1819.5	1742.6	1661.1	1590.5
27.5°	2255.4	2248.6	2237.6	2208.3	2159.7	2085.9	1997.7	1893.9	1785.5	1682.6	1590.2
30°	2238.0	2239.0	2240.1	2230.7	2199.6	2144.0	2056.3	1944.6	1815.8	1700.0	1593.1
32.5°	2083.5	2102.4	2120.4	2141.8	2150.5	2139.9	2084.9	1984.1	1851.6	1720.0	1591.4
35°	1740.5	1746.3	1804.9	1863.1	1942.0	2003.3	2044.3	1999.7	1888.0	1736.9	1589.4
37.5°	1357.1	1385.2	1425.8	1491.5	1605.4	1707.4	1838.6	1898.9	1862.9	1742.4	1585.8
40°	1156.9	1182.9	1209.3	1276.3	1372.4	1496.0	1645.0	1772.2	1801.8	1725.0	1573.3
42.5°	1002.4	1022.9	1052.3	1102.7	1183.0	1292.4	1434.8	1601.1	1703.4	1674.3	1547.2
45°	820.4	833.4	856.3	896.2	954.4	1040.1	1165.7	1347.5	1505.8	1558.3	1485.1
47.5°	702.2	702.1	719.9	747.5	789.5	862.3	955.2	1097.6	1266.8	1391.9	1386.1
50°	636.6	634.0	648.0	671.9	705.1	753.4	842.2	955.9	1118.5	1260.2	1299.7
52.5°	580.1	580.4	589.0	606.7	634.5	675.8	742.1	844.6	983.5	1129.0	1203.3
55°	505.8	503.7	513.5	525.5	545.7	572.7	620.5	698.9	811.6	954.9	1051.5
57.5°	437.6	443.3	447.3	455.6	472.4	490.5	530.8	588.3	677.7	800.7	902.8
60°	397.7	403.5	406.6	414.9	428.4	444.0	475.1	521.9	597.1	703.1	804.3
62.5°	362.0	366.5	367.5	375.0	386.0	401.2	425.7	464.9	524.4	617.1	716.3
65°	310.5	310.5	312.6	320.4	325.6	339.1	357.8	386.3	434.1	506.3	590.9
67.5°	260.9	263.4	262.8	266.3	271.1	281.5	294.9	318.5	353.9	406.6	474.3
70°	228.5	230.5	230.0	232.6	237.8	244.6	255.5	277.8	303.2	348.4	406.6
72.5°	199.4	200.2	198.9	202.3	205.4	211.3	223.5	235.4	259.2	297.3	345.1
75°	152.7	153.7	154.7	156.8	159.9	163.0	169.3	181.2	196.8	225.4	256.0
77.5°	114.4	112.5	115.0	114.7	116.4	118.8	124.3	130.6	143.4	161.5	185.2
80°	86.2	86.7	86.7	87.2	89.8	91.4	96.1	100.7	110.6	124.1	140.7
82.5°	62.9	64.3	63.5	64.4	66.6	67.7	70.3	74.1	79.9	90.5	102.5
85°	34.3	31.7	32.7	33.8	33.8	34.3	36.3	37.9	41.0	45.2	49.8
87.5°	16.2	16.9	17.1	16.9	17.2	16.9	18.3	18.0	19.0	19.9	21.2
90°	31.1	30.3	29.4	28.5	27.7	26.5	25.1	23.6	22.2	20.8	18.7
92.5°	61.2	60.6	60.0	59.3	58.7	57.4	55.5	53.6	51.7	49.8	47.3
95°	111.6	111.0	110.4	109.8	109.2	108.0	105.9	103.9	101.9	99.9	97.0
97.5°	169.2	168.8	168.5	168.1	167.8	166.6	164.7	162.8	160.9	159.0	155.1
100°	212.7	212.2	211.6	211.0	210.4	208.8	206.2	203.7	201.1	198.5	194.7
102.5°	256.3	255.5	254.7	253.9	253.1	251.3	248.4	245.6	242.8	240.0	238.1
105°	321.7	320.8	320.0	319.1	318.2	316.9	315.2	313.5	311.8	310.0	308.3
107.5°	388.6	388.7	388.7	388.8	388.9	388.5	387.6	386.7	385.9	385.0	383.7
110°	438.4	438.7	439.0	439.3	439.6	439.3	438.4	437.6	436.7	435.8	435.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	487.2	487.7	488.3	488.8	489.3	489.3	488.9	488.5	488.1	487.7	486.6
115°	564.3	564.6	564.8	565.1	565.4	565.7	566.0	566.3	566.6	566.9	566.3
117.5°	639.5	640.7	641.8	643.0	644.1	644.6	644.3	644.1	643.9	643.7	643.1
120°	691.4	692.5	693.7	694.8	696.0	696.6	696.6	696.6	696.6	696.6	696.3
122.5°	743.3	744.2	745.1	746.0	747.0	747.5	747.8	748.0	748.2	748.5	747.7
125°	821.1	821.4	821.7	822.0	822.3	822.7	823.3	823.8	824.4	825.0	824.7
127.5°	895.8	896.4	897.0	897.6	898.1	898.6	898.8	899.1	899.4	899.7	899.4
130°	945.6	946.2	946.8	947.4	947.9	948.4	948.7	948.9	949.2	949.5	948.9
132.5°	992.3	993.1	993.9	994.8	995.6	996.1	996.4	996.7	997.0	997.3	997.4
135°	1065.0	1066.1	1067.3	1068.4	1069.6	1070.2	1070.2	1070.2	1070.2	1070.2	1069.9
137.5°	1136.1	1137.5	1138.9	1140.4	1141.8	1142.4	1142.0	1141.7	1141.3	1141.0	1140.4
140°	1181.7	1183.2	1184.6	1186.0	1187.5	1187.9	1187.3	1186.8	1186.2	1185.6	1184.7
142.5°	1225.3	1226.7	1228.2	1229.6	1231.1	1231.6	1231.3	1230.9	1230.6	1230.2	1229.1
145°	1290.7	1291.5	1292.4	1293.3	1294.1	1294.6	1294.6	1294.6	1294.6	1294.6	1293.7
147.5°	1346.5	1348.4	1350.4	1352.3	1354.3	1354.9	1354.2	1353.5	1352.9	1352.2	1351.5
150°	1388.0	1388.5	1389.1	1389.7	1390.3	1390.6	1390.6	1390.6	1390.6	1390.6	1389.4
152.5°	1422.2	1423.2	1424.3	1425.3	1426.4	1426.5	1425.8	1425.1	1424.5	1423.8	1423.3
155°	1471.0	1472.4	1473.9	1475.3	1476.7	1476.9	1475.7	1474.6	1473.4	1472.3	1472.0
157.5°	1511.7	1513.6	1515.5	1517.4	1519.3	1519.7	1518.5	1517.4	1516.2	1515.1	1514.8
160°	1539.7	1541.2	1542.6	1544.1	1545.5	1545.6	1544.5	1543.3	1542.2	1541.0	1540.7
162.5°	1563.6	1565.3	1566.9	1568.6	1570.3	1570.4	1569.0	1567.7	1566.3	1564.9	1564.8
165°	1595.5	1597.2	1599.0	1600.7	1602.4	1602.7	1601.6	1600.4	1599.3	1598.1	1597.8
167.5°	1620.9	1622.7	1624.5	1626.3	1628.1	1628.1	1626.4	1624.7	1622.9	1621.2	1621.2
170°	1634.4	1636.4	1638.5	1640.5	1642.5	1642.6	1640.9	1639.2	1637.5	1635.7	1635.7
172.5°	1645.8	1647.6	1649.4	1651.2	1653.0	1653.0	1651.3	1649.6	1647.8	1646.1	1646.1
175°	1656.5	1658.5	1660.5	1662.5	1664.5	1664.7	1663.0	1661.2	1659.5	1657.8	1657.8
177.5°	1662.7	1664.3	1665.9	1667.5	1669.2	1669.3	1667.9	1666.5	1665.1	1663.7	1664.0
180°	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4
2.5°	1258.7	1255.8	1252.4	1246.6	1239.6	1235.8	1230.0	1226.3	1218.8	1212.6	1205.9
5°	1322.5	1309.0	1296.6	1280.5	1262.8	1251.4	1237.9	1222.8	1207.3	1191.2	1173.5
7.5°	1388.7	1364.8	1338.8	1310.9	1283.6	1258.5	1234.5	1210.9	1188.9	1162.3	1139.8
10°	1433.1	1403.0	1370.8	1332.9	1296.1	1263.9	1231.2	1202.6	1173.5	1142.4	1114.8
12.5°	1477.6	1437.5	1392.0	1350.4	1306.0	1267.2	1228.7	1192.2	1155.7	1121.2	1089.1
15°	1509.0	1473.6	1431.6	1372.4	1322.5	1269.1	1218.2	1170.9	1126.8	1088.4	1047.9
17.5°	1529.6	1484.1	1439.0	1382.2	1316.8	1257.0	1199.4	1145.3	1095.5	1046.8	1007.8
20°	1533.4	1486.6	1439.4	1383.8	1316.8	1248.3	1190.7	1125.7	1072.3	1021.9	974.1
22.5°	1532.1	1479.2	1427.7	1370.5	1305.2	1242.1	1172.4	1106.2	1048.2	998.6	948.8
25°	1520.4	1463.8	1399.4	1341.8	1277.4	1210.4	1139.8	1071.2	1012.0	955.4	906.1
27.5°	1510.6	1437.2	1364.3	1297.1	1234.9	1173.5	1105.9	1035.7	970.1	912.7	866.2
30°	1498.6	1418.1	1336.0	1265.9	1202.1	1142.4	1078.5	1010.0	941.4	885.3	835.5
32.5°	1487.8	1394.0	1307.4	1231.1	1163.4	1105.4	1046.5	981.3	914.0	857.1	807.2
35°	1466.9	1358.4	1259.2	1173.0	1100.8	1041.1	991.8	931.0	869.2	814.2	766.4
37.5°	1440.4	1311.6	1205.2	1114.8	1035.7	972.8	926.9	880.2	820.9	767.9	724.7
40°	1419.6	1278.4	1165.7	1073.3	991.3	925.8	883.3	839.1	789.8	740.5	694.8
42.5°	1393.5	1248.5	1125.9	1026.4	945.1	881.4	836.7	799.2	755.7	709.7	667.3
45°	1345.4	1194.3	1061.4	954.4	872.3	809.5	763.3	735.3	702.6	658.9	623.1
47.5°	1274.7	1129.2	991.7	881.3	796.6	738.4	695.1	668.2	645.1	612.7	580.2
50°	1211.9	1080.6	941.4	831.8	747.2	688.5	648.6	624.1	604.4	579.5	552.0
52.5°	1141.7	1019.5	892.0	783.7	699.9	642.0	602.9	581.4	565.0	547.1	520.0
55°	1030.2	926.4	808.0	705.1	627.8	571.2	536.9	518.2	504.7	491.2	474.6
57.5°	907.3	826.1	721.2	627.3	556.0	504.5	472.5	454.3	443.9	436.9	427.1
60°	820.9	751.4	661.0	575.3	505.8	460.1	428.9	414.9	406.1	400.3	393.1
62.5°	740.8	683.7	599.9	521.7	460.9	417.7	389.9	376.3	367.8	365.0	359.0
65°	622.6	578.5	509.4	444.5	392.6	355.7	332.3	319.3	314.1	311.0	311.6
67.5°	506.2	479.3	423.8	368.5	327.0	296.1	277.4	267.4	264.8	260.7	260.6
70°	435.1	414.9	368.2	319.9	283.0	259.1	242.5	232.1	229.5	227.4	226.9
72.5°	372.4	354.7	314.1	275.4	242.3	221.3	207.6	201.4	197.1	195.9	195.8
75°	279.9	270.0	237.8	207.2	184.3	169.8	160.5	154.7	151.6	151.1	151.6
77.5°	199.0	190.4	169.9	148.2	133.8	122.8	114.9	112.9	109.4	109.5	108.9
80°	149.5	143.8	130.9	113.7	101.8	92.4	88.3	84.6	83.6	82.0	83.6
82.5°	108.4	102.3	93.5	82.6	72.7	67.1	62.9	61.8	61.2	60.4	60.8
85°	53.5	54.0	48.8	40.5	36.3	33.2	30.6	30.6	30.1	29.6	30.1
87.5°	21.6	20.4	18.3	16.6	14.1	12.4	11.5	11.5	10.7	10.7	11.6
90°	16.7	14.7	12.7	10.5	8.2	5.9	3.6	1.3	3.6	5.9	8.2
92.5°	44.9	42.4	39.9	37.8	36.2	34.6	33.0	31.4	33.0	34.6	36.2
95°	94.1	91.2	88.4	86.6	86.0	85.5	84.9	84.3	84.9	85.5	86.0
97.5°	151.1	147.1	143.1	141.0	140.8	140.6	140.3	140.1	140.3	140.6	140.8
100°	191.0	187.2	183.5	181.6	181.6	181.6	181.6	181.6	181.6	181.6	181.6
102.5°	236.2	234.3	232.4	230.8	229.7	228.5	227.4	226.2	227.4	228.5	229.7
105°	306.6	304.8	303.1	301.5	300.1	298.6	297.2	295.8	297.2	298.6	300.1
107.5°	382.3	381.0	379.7	378.3	376.9	375.4	374.0	372.5	374.0	375.4	376.9
110°	434.1	433.3	432.4	431.2	429.8	428.4	426.9	425.5	426.9	428.4	429.8





TEST NUMBER: P333419

CATALOG NUMBER: S125DIW-S850D1340U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	485.5	484.4	483.4	482.4	481.7	480.9	480.2	479.4	480.2	480.9	481.7
115°	565.7	565.1	564.6	563.7	562.5	561.4	560.2	559.1	560.2	561.4	562.5
117.5°	642.6	642.1	641.6	641.1	640.5	640.0	639.5	639.0	639.5	640.0	640.5
120°	696.0	695.7	695.4	694.6	693.1	691.7	690.2	688.8	690.2	691.7	693.1
122.5°	747.0	746.2	745.5	744.8	744.3	743.8	743.3	742.8	743.3	743.8	744.3
125°	824.4	824.1	823.8	822.8	821.1	819.4	817.6	815.9	817.6	819.4	821.1
127.5°	899.0	898.7	898.3	897.7	896.7	895.7	894.7	893.7	894.7	895.7	896.7
130°	948.4	947.8	947.2	946.2	944.8	943.3	941.9	940.4	941.9	943.3	944.8
132.5°	997.5	997.6	997.7	996.6	994.2	991.9	989.5	987.1	989.5	991.9	994.2
135°	1069.6	1069.3	1069.0	1068.0	1066.3	1064.5	1062.8	1061.1	1062.8	1064.5	1066.3
137.5°	1139.7	1139.1	1138.4	1137.3	1135.6	1134.0	1132.3	1130.6	1132.3	1134.0	1135.6
140°	1183.9	1183.0	1182.1	1181.0	1179.6	1178.1	1176.7	1175.2	1176.7	1178.1	1179.6
142.5°	1228.0	1226.9	1225.8	1224.7	1223.5	1222.3	1221.1	1219.9	1221.1	1222.3	1223.5
145°	1292.8	1292.0	1291.1	1290.1	1288.9	1287.8	1286.6	1285.5	1286.6	1287.8	1288.9
147.5°	1350.8	1350.1	1349.4	1348.7	1348.1	1347.5	1346.8	1346.2	1346.8	1347.5	1348.1
150°	1388.3	1387.1	1385.9	1385.5	1385.8	1386.1	1386.4	1386.7	1386.4	1386.1	1385.8
152.5°	1422.8	1422.4	1421.9	1421.5	1421.1	1420.7	1420.3	1419.9	1420.3	1420.7	1421.1
155°	1471.7	1471.4	1471.1	1471.0	1471.0	1471.0	1471.0	1471.0	1471.0	1471.0	1471.0
157.5°	1514.5	1514.2	1513.9	1514.1	1514.7	1515.4	1516.0	1516.6	1516.0	1515.4	1514.7
160°	1540.5	1540.2	1539.9	1540.2	1541.0	1541.9	1542.8	1543.6	1542.8	1541.9	1541.0
162.5°	1564.8	1564.7	1564.7	1565.0	1565.6	1566.2	1566.9	1567.5	1566.9	1566.2	1565.6
165°	1597.5	1597.2	1597.0	1597.1	1597.7	1598.2	1598.8	1599.4	1598.8	1598.2	1597.7
167.5°	1621.2	1621.2	1621.2	1621.8	1622.9	1624.1	1625.2	1626.4	1625.2	1624.1	1622.9
170°	1635.7	1635.7	1635.7	1636.3	1637.5	1638.6	1639.8	1640.9	1639.8	1638.6	1637.5
172.5°	1646.1	1646.1	1646.1	1646.7	1647.8	1649.0	1650.1	1651.3	1650.1	1649.0	1647.8
175°	1657.8	1657.8	1657.8	1658.4	1659.5	1660.7	1661.8	1663.0	1661.8	1660.7	1659.5
177.5°	1664.2	1664.4	1664.7	1665.2	1666.2	1667.1	1668.0	1668.9	1668.0	1667.1	1666.2
180°	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9



TEST NUMBER: P333419

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4
2.5°	1202.2	1197.6	1193.9	1185.6	1181.0	1174.8	1169.8	1175.2	1169.4	1171.9	1168.1
5°	1164.7	1150.2	1139.8	1124.7	1111.7	1099.8	1091.0	1089.4	1085.2	1083.2	1076.9
7.5°	1119.6	1101.4	1083.6	1063.9	1047.2	1030.3	1019.5	1010.6	1004.7	996.9	991.6
10°	1093.0	1068.6	1047.9	1024.0	1003.2	985.0	970.5	963.2	956.5	946.6	943.0
12.5°	1060.2	1035.0	1009.6	984.1	964.2	943.9	931.4	920.4	915.8	904.6	903.5
15°	1020.9	983.0	958.0	932.1	904.5	887.9	877.5	865.6	860.4	852.6	846.9
17.5°	973.9	940.1	908.9	882.0	858.4	844.4	831.5	823.3	814.4	809.3	800.0
20°	939.9	907.7	876.5	847.9	829.8	813.7	803.3	795.5	786.2	783.6	774.2
22.5°	911.2	875.7	845.8	821.8	801.9	783.8	772.5	767.3	760.8	752.8	750.9
25°	864.6	827.7	802.3	778.4	760.7	744.1	736.3	729.6	723.3	717.6	715.5
27.5°	824.3	791.3	761.1	739.5	724.2	709.0	702.1	693.9	689.4	684.8	679.2
30°	796.0	762.3	735.8	715.0	698.4	684.9	677.6	671.9	667.8	663.6	660.5
32.5°	766.9	735.7	710.0	689.7	673.1	662.9	656.4	652.4	647.8	642.8	638.9
35°	728.5	694.2	669.3	651.7	638.7	630.9	623.6	620.0	614.8	614.8	610.6
37.5°	685.2	655.6	633.6	617.5	605.9	598.9	591.0	588.5	585.2	583.0	581.6
40°	659.5	631.9	611.2	595.1	582.6	576.9	570.7	566.5	564.4	561.8	560.8
42.5°	632.9	606.6	586.7	571.8	561.0	556.1	550.3	547.4	543.2	539.8	539.2
45°	592.5	567.0	548.9	536.9	527.6	521.9	518.2	512.0	509.9	505.8	505.2
47.5°	554.1	529.7	511.9	502.1	493.9	489.2	483.5	477.3	474.9	472.8	472.6
50°	525.5	503.2	486.5	477.2	469.4	462.7	456.9	452.8	451.2	451.2	452.3
52.5°	496.4	477.4	463.3	451.9	444.5	437.3	432.0	429.5	427.1	429.6	431.5
55°	453.8	434.6	424.2	413.3	406.1	397.7	395.2	394.1	392.6	396.7	398.8
57.5°	408.8	395.3	383.1	372.3	365.8	361.0	357.5	356.8	359.7	361.7	368.5
60°	380.1	364.5	353.6	345.3	337.5	334.4	333.4	332.3	334.4	340.1	348.9
62.5°	348.5	335.9	324.1	317.9	312.2	307.0	306.8	307.4	311.6	318.1	326.9
65°	302.2	291.3	283.5	276.2	271.6	268.5	269.5	271.6	276.2	285.1	294.9
67.5°	255.2	247.7	240.7	234.8	230.3	230.3	231.4	234.5	240.0	250.2	259.2
70°	224.8	216.5	210.8	208.2	204.6	202.5	205.6	210.8	215.5	224.8	232.6
72.5°	194.5	187.5	183.0	181.2	179.7	178.0	179.0	184.6	191.0	200.3	209.4
75°	149.5	146.9	143.8	141.8	140.2	141.2	142.3	147.5	152.7	162.5	172.9
77.5°	109.1	106.4	104.6	104.1	103.2	103.7	106.7	110.5	115.6	122.8	130.6
80°	82.6	81.5	80.5	80.0	80.0	80.5	84.6	87.2	91.9	98.7	104.9
82.5°	60.1	59.5	59.3	59.2	59.6	59.7	62.2	65.6	69.5	74.6	80.0
85°	31.7	30.6	32.2	32.7	31.7	33.2	34.3	36.3	37.9	40.5	43.1
87.5°	12.5	13.8	13.7	14.6	15.0	16.2	16.1	18.0	19.1	20.3	20.1
90°	10.5	12.7	14.7	16.7	18.7	20.8	22.2	23.6	25.1	26.5	27.7
92.5°	37.8	39.9	42.4	44.9	47.3	49.8	51.7	53.6	55.5	57.4	58.7
95°	86.6	88.4	91.2	94.1	97.0	99.9	101.9	103.9	105.9	108.0	109.2
97.5°	141.0	143.1	147.1	151.1	155.1	159.0	160.9	162.8	164.7	166.6	167.8
100°	181.6	183.5	187.2	191.0	194.7	198.5	201.1	203.7	206.2	208.8	210.4
102.5°	230.8	232.4	234.3	236.2	238.1	240.0	242.8	245.6	248.4	251.3	253.1
105°	301.5	303.1	304.8	306.6	308.3	310.0	311.8	313.5	315.2	316.9	318.2
107.5°	378.3	379.7	381.0	382.3	383.7	385.0	385.9	386.7	387.6	388.5	388.9
110°	431.2	432.4	433.3	434.1	435.0	435.8	436.7	437.6	438.4	439.3	439.6



TEST NUMBER: P333419

CATALOG NUMBER: S125DIW-S850D1340U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	482.4	483.4	484.4	485.5	486.6	487.7	488.1	488.5	488.9	489.3	489.3
115°	563.7	564.6	565.1	565.7	566.3	566.9	566.6	566.3	566.0	565.7	565.4
117.5°	641.1	641.6	642.1	642.6	643.1	643.7	643.9	644.1	644.3	644.6	644.1
120°	694.6	695.4	695.7	696.0	696.3	696.6	696.6	696.6	696.6	696.6	696.0
122.5°	744.8	745.5	746.2	747.0	747.7	748.5	748.2	748.0	747.8	747.5	747.0
125°	822.8	823.8	824.1	824.4	824.7	825.0	824.4	823.8	823.3	822.7	822.3
127.5°	897.7	898.3	898.7	899.0	899.4	899.7	899.4	899.1	898.8	898.6	898.1
130°	946.2	947.2	947.8	948.4	948.9	949.5	949.2	948.9	948.7	948.4	947.9
132.5°	996.6	997.7	997.6	997.5	997.4	997.3	997.0	996.7	996.4	996.1	995.6
135°	1068.0	1069.0	1069.3	1069.6	1069.9	1070.2	1070.2	1070.2	1070.2	1070.2	1069.6
137.5°	1137.3	1138.4	1139.1	1139.7	1140.4	1141.0	1141.3	1141.7	1142.0	1142.4	1141.8
140°	1181.0	1182.1	1183.0	1183.9	1184.7	1185.6	1186.2	1186.8	1187.3	1187.9	1187.5
142.5°	1224.7	1225.8	1226.9	1228.0	1229.1	1230.2	1230.6	1230.9	1231.3	1231.6	1231.1
145°	1290.1	1291.1	1292.0	1292.8	1293.7	1294.6	1294.6	1294.6	1294.6	1294.6	1294.1
147.5°	1348.7	1349.4	1350.1	1350.8	1351.5	1352.2	1352.9	1353.5	1354.2	1354.9	1354.3
150°	1385.5	1385.9	1387.1	1388.3	1389.4	1390.6	1390.6	1390.6	1390.6	1390.6	1390.3
152.5°	1421.5	1421.9	1422.4	1422.8	1423.3	1423.8	1424.5	1425.1	1425.8	1426.5	1426.4
155°	1471.0	1471.1	1471.4	1471.7	1472.0	1472.3	1473.4	1474.6	1475.7	1476.9	1476.7
157.5°	1514.1	1513.9	1514.2	1514.5	1514.8	1515.1	1516.2	1517.4	1518.5	1519.7	1519.3
160°	1540.2	1539.9	1540.2	1540.5	1540.7	1541.0	1542.2	1543.3	1544.5	1545.6	1545.5
162.5°	1565.0	1564.7	1564.7	1564.8	1564.8	1564.9	1566.3	1567.7	1569.0	1570.4	1570.3
165°	1597.1	1597.0	1597.2	1597.5	1597.8	1598.1	1599.3	1600.4	1601.6	1602.7	1602.4
167.5°	1621.8	1621.2	1621.2	1621.2	1621.2	1621.2	1622.9	1624.7	1626.4	1628.1	1628.1
170°	1636.3	1635.7	1635.7	1635.7	1635.7	1635.7	1637.5	1639.2	1640.9	1642.6	1642.5
172.5°	1646.7	1646.1	1646.1	1646.1	1646.1	1646.1	1647.8	1649.6	1651.3	1653.0	1653.0
175°	1658.4	1657.8	1657.8	1657.8	1657.8	1657.8	1659.5	1661.2	1663.0	1664.7	1664.5
177.5°	1665.2	1664.7	1664.4	1664.2	1664.0	1663.7	1665.1	1666.5	1667.9	1669.3	1669.2
180°	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9



TEST NUMBER: P333419

CATALOG NUMBER: S125DIW-S850D1340U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4
2.5°	1165.6	1168.5	1166.0	1169.4	1166.0	1168.5	1165.6	1168.1	1171.9	1169.4	1175.2
5°	1074.3	1069.7	1072.8	1070.7	1072.8	1069.7	1074.3	1076.9	1083.2	1085.2	1089.4
7.5°	990.0	985.5	980.5	978.1	980.5	985.5	990.0	991.6	996.9	1004.7	1010.6
10°	937.3	931.5	931.0	927.4	931.0	931.5	937.3	943.0	946.6	956.5	963.2
12.5°	898.6	893.3	887.4	885.9	887.4	893.3	898.6	903.5	904.6	915.8	920.4
15°	843.8	839.6	836.0	839.1	836.0	839.6	843.8	846.9	852.6	860.4	865.6
17.5°	798.2	794.8	794.1	790.3	794.1	794.8	798.2	800.0	809.3	814.4	823.3
20°	769.5	766.9	768.0	761.2	768.0	766.9	769.5	774.2	783.6	786.2	795.5
22.5°	746.7	741.6	741.0	739.6	741.0	741.6	746.7	750.9	752.8	760.8	767.3
25°	710.9	708.3	705.7	708.3	705.7	708.3	710.9	715.5	717.6	723.3	729.6
27.5°	679.6	676.5	675.8	676.1	675.8	676.5	679.6	679.2	684.8	689.4	693.9
30°	660.5	655.3	655.8	655.3	655.8	655.3	660.5	660.5	663.6	667.8	671.9
32.5°	639.7	636.2	635.5	634.5	635.5	636.2	639.7	638.9	642.8	647.8	652.4
35°	609.1	609.1	606.5	606.5	606.5	609.1	609.1	610.6	614.8	614.8	620.0
37.5°	580.3	579.8	578.2	578.5	578.2	579.8	580.3	581.6	583.0	585.2	588.5
40°	558.7	558.2	556.6	553.5	556.6	558.2	558.7	560.8	561.8	564.4	566.5
42.5°	537.9	536.2	535.5	534.4	535.5	536.2	537.9	539.2	539.8	543.2	547.4
45°	505.2	505.2	504.2	503.7	504.2	505.2	505.2	505.2	505.8	509.9	512.0
47.5°	473.5	474.4	476.4	476.1	476.4	474.4	473.5	472.6	472.8	474.9	477.3
50°	454.3	454.9	456.4	456.9	456.4	454.9	454.3	452.3	451.2	451.2	452.8
52.5°	433.2	436.2	438.1	437.8	438.1	436.2	433.2	431.5	429.6	427.1	429.5
55°	403.5	407.1	410.7	411.3	410.7	407.1	403.5	398.8	396.7	392.6	394.1
57.5°	374.1	379.2	383.0	384.2	383.0	379.2	374.1	368.5	361.7	359.7	356.8
60°	354.1	360.9	365.6	367.6	365.6	360.9	354.1	348.9	340.1	334.4	332.3
62.5°	335.0	342.6	347.3	347.7	347.3	342.6	335.0	326.9	318.1	311.6	307.4
65°	303.8	311.6	315.7	318.8	315.7	311.6	303.8	294.9	285.1	276.2	271.6
67.5°	270.1	277.9	282.5	285.0	282.5	277.9	270.1	259.2	250.2	240.0	234.5
70°	245.6	253.4	259.6	261.7	259.6	253.4	245.6	232.6	224.8	215.5	210.8
72.5°	221.5	228.5	233.5	235.9	233.5	228.5	221.5	209.4	200.3	191.0	184.6
75°	179.7	189.0	193.7	196.3	193.7	189.0	179.7	172.9	162.5	152.7	147.5
77.5°	138.5	147.1	149.9	151.2	149.9	147.1	138.5	130.6	122.8	115.6	110.5
80°	111.1	116.3	119.9	120.5	119.9	116.3	111.1	104.9	98.7	91.9	87.2
82.5°	85.4	89.7	90.9	92.2	90.9	89.7	85.4	80.0	74.6	69.5	65.6
85°	46.7	48.8	49.3	48.8	49.3	48.8	46.7	43.1	40.5	37.9	36.3
87.5°	21.1	20.8	21.0	22.0	21.0	20.8	21.1	20.1	20.3	19.1	18.0
90°	28.5	29.4	30.3	31.1	30.3	29.4	28.5	27.7	26.5	25.1	23.6
92.5°	59.3	60.0	60.6	61.2	60.6	60.0	59.3	58.7	57.4	55.5	53.6
95°	109.8	110.4	111.0	111.6	111.0	110.4	109.8	109.2	108.0	105.9	103.9
97.5°	168.1	168.5	168.8	169.2	168.8	168.5	168.1	167.8	166.6	164.7	162.8
100°	211.0	211.6	212.2	212.7	212.2	211.6	211.0	210.4	208.8	206.2	203.7
102.5°	253.9	254.7	255.5	256.3	255.5	254.7	253.9	253.1	251.3	248.4	245.6
105°	319.1	320.0	320.8	321.7	320.8	320.0	319.1	318.2	316.9	315.2	313.5
107.5°	388.8	388.7	388.7	388.6	388.7	388.7	388.8	388.9	388.5	387.6	386.7
110°	439.3	439.0	438.7	438.4	438.7	439.0	439.3	439.6	439.3	438.4	437.6



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	488.8	488.3	487.7	487.2	487.7	488.3	488.8	489.3	489.3	488.9	488.5
115°	565.1	564.8	564.6	564.3	564.6	564.8	565.1	565.4	565.7	566.0	566.3
117.5°	643.0	641.8	640.7	639.5	640.7	641.8	643.0	644.1	644.6	644.3	644.1
120°	694.8	693.7	692.5	691.4	692.5	693.7	694.8	696.0	696.6	696.6	696.6
122.5°	746.0	745.1	744.2	743.3	744.2	745.1	746.0	747.0	747.5	747.8	748.0
125°	822.0	821.7	821.4	821.1	821.4	821.7	822.0	822.3	822.7	823.3	823.8
127.5°	897.6	897.0	896.4	895.8	896.4	897.0	897.6	898.1	898.6	898.8	899.1
130°	947.4	946.8	946.2	945.6	946.2	946.8	947.4	947.9	948.4	948.7	948.9
132.5°	994.8	993.9	993.1	992.3	993.1	993.9	994.8	995.6	996.1	996.4	996.7
135°	1068.4	1067.3	1066.1	1065.0	1066.1	1067.3	1068.4	1069.6	1070.2	1070.2	1070.2
137.5°	1140.4	1138.9	1137.5	1136.1	1137.5	1138.9	1140.4	1141.8	1142.4	1142.0	1141.7
140°	1186.0	1184.6	1183.2	1181.7	1183.2	1184.6	1186.0	1187.5	1187.9	1187.3	1186.8
142.5°	1229.6	1228.2	1226.7	1225.3	1226.7	1228.2	1229.6	1231.1	1231.6	1231.3	1230.9
145°	1293.3	1292.4	1291.5	1290.7	1291.5	1292.4	1293.3	1294.1	1294.6	1294.6	1294.6
147.5°	1352.3	1350.4	1348.4	1346.5	1348.4	1350.4	1352.3	1354.3	1354.9	1354.2	1353.5
150°	1389.7	1389.1	1388.5	1388.0	1388.5	1389.1	1389.7	1390.3	1390.6	1390.6	1390.6
152.5°	1425.3	1424.3	1423.2	1422.2	1423.2	1424.3	1425.3	1426.4	1426.5	1425.8	1425.1
155°	1475.3	1473.9	1472.4	1471.0	1472.4	1473.9	1475.3	1476.7	1476.9	1475.7	1474.6
157.5°	1517.4	1515.5	1513.6	1511.7	1513.6	1515.5	1517.4	1519.3	1519.7	1518.5	1517.4
160°	1544.1	1542.6	1541.2	1539.7	1541.2	1542.6	1544.1	1545.5	1545.6	1544.5	1543.3
162.5°	1568.6	1566.9	1565.3	1563.6	1565.3	1566.9	1568.6	1570.3	1570.4	1569.0	1567.7
165°	1600.7	1599.0	1597.2	1595.5	1597.2	1599.0	1600.7	1602.4	1602.7	1601.6	1600.4
167.5°	1626.3	1624.5	1622.7	1620.9	1622.7	1624.5	1626.3	1628.1	1628.1	1626.4	1624.7
170°	1640.5	1638.5	1636.4	1634.4	1636.4	1638.5	1640.5	1642.5	1642.6	1640.9	1639.2
172.5°	1651.2	1649.4	1647.6	1645.8	1647.6	1649.4	1651.2	1653.0	1653.0	1651.3	1649.6
175°	1662.5	1660.5	1658.5	1656.5	1658.5	1660.5	1662.5	1664.5	1664.7	1663.0	1661.2
177.5°	1667.5	1665.9	1664.3	1662.7	1664.3	1665.9	1667.5	1669.2	1669.3	1667.9	1666.5
180°	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9



TEST NUMBER: P333419

CATALOG NUMBER: S125DIW-S850D1340U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4
2.5°	1169.8	1174.8	1181.0	1185.6	1193.9	1197.6	1202.2	1205.9	1212.6	1218.8	1226.3
5°	1091.0	1099.8	1111.7	1124.7	1139.8	1150.2	1164.7	1173.5	1191.2	1207.3	1222.8
7.5°	1019.5	1030.3	1047.2	1063.9	1083.6	1101.4	1119.6	1139.8	1162.3	1188.9	1210.9
10°	970.5	985.0	1003.2	1024.0	1047.9	1068.6	1093.0	1114.8	1142.4	1173.5	1202.6
12.5°	931.4	943.9	964.2	984.1	1009.6	1035.0	1060.2	1089.1	1121.2	1155.7	1192.2
15°	877.5	887.9	904.5	932.1	958.0	983.0	1020.9	1047.9	1088.4	1126.8	1170.9
17.5°	831.5	844.4	858.4	882.0	908.9	940.1	973.9	1007.8	1046.8	1095.5	1145.3
20°	803.3	813.7	829.8	847.9	876.5	907.7	939.9	974.1	1021.9	1072.3	1125.7
22.5°	772.5	783.8	801.9	821.8	845.8	875.7	911.2	948.8	998.6	1048.2	1106.2
25°	736.3	744.1	760.7	778.4	802.3	827.7	864.6	906.1	955.4	1012.0	1071.2
27.5°	702.1	709.0	724.2	739.5	761.1	791.3	824.3	866.2	912.7	970.1	1035.7
30°	677.6	684.9	698.4	715.0	735.8	762.3	796.0	835.5	885.3	941.4	1010.0
32.5°	656.4	662.9	673.1	689.7	710.0	735.7	766.9	807.2	857.1	914.0	981.3
35°	623.6	630.9	638.7	651.7	669.3	694.2	728.5	766.4	814.2	869.2	931.0
37.5°	591.0	598.9	605.9	617.5	633.6	655.6	685.2	724.7	767.9	820.9	880.2
40°	570.7	576.9	582.6	595.1	611.2	631.9	659.5	694.8	740.5	789.8	839.1
42.5°	550.3	556.1	561.0	571.8	586.7	606.6	632.9	667.3	709.7	755.7	799.2
45°	518.2	521.9	527.6	536.9	548.9	567.0	592.5	623.1	658.9	702.6	735.3
47.5°	483.5	489.2	493.9	502.1	511.9	529.7	554.1	580.2	612.7	645.1	668.2
50°	456.9	462.7	469.4	477.2	486.5	503.2	525.5	552.0	579.5	604.4	624.1
52.5°	432.0	437.3	444.5	451.9	463.3	477.4	496.4	520.0	547.1	565.0	581.4
55°	395.2	397.7	406.1	413.3	424.2	434.6	453.8	474.6	491.2	504.7	518.2
57.5°	357.5	361.0	365.8	372.3	383.1	395.3	408.8	427.1	436.9	443.9	454.3
60°	333.4	334.4	337.5	345.3	353.6	364.5	380.1	393.1	400.3	406.1	414.9
62.5°	306.8	307.0	312.2	317.9	324.1	335.9	348.5	359.0	365.0	367.8	376.3
65°	269.5	268.5	271.6	276.2	283.5	291.3	302.2	311.6	311.0	314.1	319.3
67.5°	231.4	230.3	230.3	234.8	240.7	247.7	255.2	260.6	260.7	264.8	267.4
70°	205.6	202.5	204.6	208.2	210.8	216.5	224.8	226.9	227.4	229.5	232.1
72.5°	179.0	178.0	179.7	181.2	183.0	187.5	194.5	195.8	195.9	197.1	201.4
75°	142.3	141.2	140.2	141.8	143.8	146.9	149.5	151.6	151.1	151.6	154.7
77.5°	106.7	103.7	103.2	104.1	104.6	106.4	109.1	108.9	109.5	109.4	112.9
80°	84.6	80.5	80.0	80.0	80.5	81.5	82.6	83.6	82.0	83.6	84.6
82.5°	62.2	59.7	59.6	59.2	59.3	59.5	60.1	60.8	60.4	61.2	61.8
85°	34.3	33.2	31.7	32.7	32.2	30.6	31.7	30.1	29.6	30.1	30.6
87.5°	16.1	16.2	15.0	14.6	13.7	13.8	12.5	11.6	10.7	10.7	11.5
90°	22.2	20.8	18.7	16.7	14.7	12.7	10.5	8.2	5.9	3.6	1.3
92.5°	51.7	49.8	47.3	44.9	42.4	39.9	37.8	36.2	34.6	33.0	31.4
95°	101.9	99.9	97.0	94.1	91.2	88.4	86.6	86.0	85.5	84.9	84.3
97.5°	160.9	159.0	155.1	151.1	147.1	143.1	141.0	140.8	140.6	140.3	140.1
100°	201.1	198.5	194.7	191.0	187.2	183.5	181.6	181.6	181.6	181.6	181.6
102.5°	242.8	240.0	238.1	236.2	234.3	232.4	230.8	229.7	228.5	227.4	226.2
105°	311.8	310.0	308.3	306.6	304.8	303.1	301.5	300.1	298.6	297.2	295.8
107.5°	385.9	385.0	383.7	382.3	381.0	379.7	378.3	376.9	375.4	374.0	372.5
110°	436.7	435.8	435.0	434.1	433.3	432.4	431.2	429.8	428.4	426.9	425.5



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	488.1	487.7	486.6	485.5	484.4	483.4	482.4	481.7	480.9	480.2	479.4
115°	566.6	566.9	566.3	565.7	565.1	564.6	563.7	562.5	561.4	560.2	559.1
117.5°	643.9	643.7	643.1	642.6	642.1	641.6	641.1	640.5	640.0	639.5	639.0
120°	696.6	696.6	696.3	696.0	695.7	695.4	694.6	693.1	691.7	690.2	688.8
122.5°	748.2	748.5	747.7	747.0	746.2	745.5	744.8	744.3	743.8	743.3	742.8
125°	824.4	825.0	824.7	824.4	824.1	823.8	822.8	821.1	819.4	817.6	815.9
127.5°	899.4	899.7	899.4	899.0	898.7	898.3	897.7	896.7	895.7	894.7	893.7
130°	949.2	949.5	948.9	948.4	947.8	947.2	946.2	944.8	943.3	941.9	940.4
132.5°	997.0	997.3	997.4	997.5	997.6	997.7	996.6	994.2	991.9	989.5	987.1
135°	1070.2	1070.2	1069.9	1069.6	1069.3	1069.0	1068.0	1066.3	1064.5	1062.8	1061.1
137.5°	1141.3	1141.0	1140.4	1139.7	1139.1	1138.4	1137.3	1135.6	1134.0	1132.3	1130.6
140°	1186.2	1185.6	1184.7	1183.9	1183.0	1182.1	1181.0	1179.6	1178.1	1176.7	1175.2
142.5°	1230.6	1230.2	1229.1	1228.0	1226.9	1225.8	1224.7	1223.5	1222.3	1221.1	1219.9
145°	1294.6	1294.6	1293.7	1292.8	1292.0	1291.1	1290.1	1288.9	1287.8	1286.6	1285.5
147.5°	1352.9	1352.2	1351.5	1350.8	1350.1	1349.4	1348.7	1348.1	1347.5	1346.8	1346.2
150°	1390.6	1390.6	1389.4	1388.3	1387.1	1385.9	1385.5	1385.8	1386.1	1386.4	1386.7
152.5°	1424.5	1423.8	1423.3	1422.8	1422.4	1421.9	1421.5	1421.1	1420.7	1420.3	1419.9
155°	1473.4	1472.3	1472.0	1471.7	1471.4	1471.1	1471.0	1471.0	1471.0	1471.0	1471.0
157.5°	1516.2	1515.1	1514.8	1514.5	1514.2	1513.9	1514.1	1514.7	1515.4	1516.0	1516.6
160°	1542.2	1541.0	1540.7	1540.5	1540.2	1539.9	1540.2	1541.0	1541.9	1542.8	1543.6
162.5°	1566.3	1564.9	1564.8	1564.8	1564.7	1564.7	1565.0	1565.6	1566.2	1566.9	1567.5
165°	1599.3	1598.1	1597.8	1597.5	1597.2	1597.0	1597.1	1597.7	1598.2	1598.8	1599.4
167.5°	1622.9	1621.2	1621.2	1621.2	1621.2	1621.2	1621.8	1622.9	1624.1	1625.2	1626.4
170°	1637.5	1635.7	1635.7	1635.7	1635.7	1635.7	1636.3	1637.5	1638.6	1639.8	1640.9
172.5°	1647.8	1646.1	1646.1	1646.1	1646.1	1646.1	1646.7	1647.8	1649.0	1650.1	1651.3
175°	1659.5	1657.8	1657.8	1657.8	1657.8	1657.8	1658.4	1659.5	1660.7	1661.8	1663.0
177.5°	1665.1	1663.7	1664.0	1664.2	1664.4	1664.7	1665.2	1666.2	1667.1	1668.0	1668.9
180°	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4
2.5°	1230.0	1235.8	1239.6	1246.6	1252.4	1255.8	1258.7	1261.2	1264.1	1266.6	1273.6
5°	1237.9	1251.4	1262.8	1280.5	1296.6	1309.0	1322.5	1334.5	1344.4	1358.4	1369.3
7.5°	1234.5	1258.5	1283.6	1310.9	1338.8	1364.8	1388.7	1411.0	1431.3	1455.8	1477.3
10°	1231.2	1263.9	1296.1	1332.9	1370.8	1403.0	1433.1	1463.8	1486.1	1517.3	1543.7
12.5°	1228.7	1267.2	1306.0	1350.4	1392.0	1437.5	1477.6	1499.9	1533.9	1558.8	1590.3
15°	1218.2	1269.1	1322.5	1372.4	1431.6	1473.6	1509.0	1552.6	1584.2	1615.9	1650.2
17.5°	1199.4	1257.0	1316.8	1382.2	1439.0	1484.1	1529.6	1571.7	1609.5	1652.0	1694.6
20°	1190.7	1248.3	1316.8	1383.8	1439.4	1486.6	1533.4	1579.6	1621.1	1675.6	1725.0
22.5°	1172.4	1242.1	1305.2	1370.5	1427.7	1479.2	1532.1	1584.6	1639.8	1701.4	1763.2
25°	1139.8	1210.4	1277.4	1341.8	1399.4	1463.8	1520.4	1590.5	1661.1	1742.6	1819.5
27.5°	1105.9	1173.5	1234.9	1297.1	1364.3	1437.2	1510.6	1590.2	1682.6	1785.5	1893.9
30°	1078.5	1142.4	1202.1	1265.9	1336.0	1418.1	1498.6	1593.1	1700.0	1815.8	1944.6
32.5°	1046.5	1105.4	1163.4	1231.1	1307.4	1394.0	1487.8	1591.4	1720.0	1851.6	1984.1
35°	991.8	1041.1	1100.8	1173.0	1259.2	1358.4	1466.9	1589.4	1736.9	1888.0	1999.7
37.5°	926.9	972.8	1035.7	1114.8	1205.2	1311.6	1440.4	1585.8	1742.4	1862.9	1898.9
40°	883.3	925.8	991.3	1073.3	1165.7	1278.4	1419.6	1573.3	1725.0	1801.8	1772.2
42.5°	836.7	881.4	945.1	1026.4	1125.9	1248.5	1393.5	1547.2	1674.3	1703.4	1601.1
45°	763.3	809.5	872.3	954.4	1061.4	1194.3	1345.4	1485.1	1558.3	1505.8	1347.5
47.5°	695.1	738.4	796.6	881.3	991.7	1129.2	1274.7	1386.1	1391.9	1266.8	1097.6
50°	648.6	688.5	747.2	831.8	941.4	1080.6	1211.9	1299.7	1260.2	1118.5	955.9
52.5°	602.9	642.0	699.9	783.7	892.0	1019.5	1141.7	1203.3	1129.0	983.5	844.6
55°	536.9	571.2	627.8	705.1	808.0	926.4	1030.2	1051.5	954.9	811.6	698.9
57.5°	472.5	504.5	556.0	627.3	721.2	826.1	907.3	902.8	800.7	677.7	588.3
60°	428.9	460.1	505.8	575.3	661.0	751.4	820.9	804.3	703.1	597.1	521.9
62.5°	389.9	417.7	460.9	521.7	599.9	683.7	740.8	716.3	617.1	524.4	464.9
65°	332.3	355.7	392.6	444.5	509.4	578.5	622.6	590.9	506.3	434.1	386.3
67.5°	277.4	296.1	327.0	368.5	423.8	479.3	506.2	474.3	406.6	353.9	318.5
70°	242.5	259.1	283.0	319.9	368.2	414.9	435.1	406.6	348.4	303.2	277.8
72.5°	207.6	221.3	242.3	275.4	314.1	354.7	372.4	345.1	297.3	259.2	235.4
75°	160.5	169.8	184.3	207.2	237.8	270.0	279.9	256.0	225.4	196.8	181.2
77.5°	114.9	122.8	133.8	148.2	169.9	190.4	199.0	185.2	161.5	143.4	130.6
80°	88.3	92.4	101.8	113.7	130.9	143.8	149.5	140.7	124.1	110.6	100.7
82.5°	62.9	67.1	72.7	82.6	93.5	102.3	108.4	102.5	90.5	79.9	74.1
85°	30.6	33.2	36.3	40.5	48.8	54.0	53.5	49.8	45.2	41.0	37.9
87.5°	11.5	12.4	14.1	16.6	18.3	20.4	21.6	21.2	19.9	19.0	18.0
90°	3.6	5.9	8.2	10.5	12.7	14.7	16.7	18.7	20.8	22.2	23.6
92.5°	33.0	34.6	36.2	37.8	39.9	42.4	44.9	47.3	49.8	51.7	53.6
95°	84.9	85.5	86.0	86.6	88.4	91.2	94.1	97.0	99.9	101.9	103.9
97.5°	140.3	140.6	140.8	141.0	143.1	147.1	151.1	155.1	159.0	160.9	162.8
100°	181.6	181.6	181.6	181.6	183.5	187.2	191.0	194.7	198.5	201.1	203.7
102.5°	227.4	228.5	229.7	230.8	232.4	234.3	236.2	238.1	240.0	242.8	245.6
105°	297.2	298.6	300.1	301.5	303.1	304.8	306.6	308.3	310.0	311.8	313.5
107.5°	374.0	375.4	376.9	378.3	379.7	381.0	382.3	383.7	385.0	385.9	386.7
110°	426.9	428.4	429.8	431.2	432.4	433.3	434.1	435.0	435.8	436.7	437.6





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	480.2	480.9	481.7	482.4	483.4	484.4	485.5	486.6	487.7	488.1	488.5
115°	560.2	561.4	562.5	563.7	564.6	565.1	565.7	566.3	566.9	566.6	566.3
117.5°	639.5	640.0	640.5	641.1	641.6	642.1	642.6	643.1	643.7	643.9	644.1
120°	690.2	691.7	693.1	694.6	695.4	695.7	696.0	696.3	696.6	696.6	696.6
122.5°	743.3	743.8	744.3	744.8	745.5	746.2	747.0	747.7	748.5	748.2	748.0
125°	817.6	819.4	821.1	822.8	823.8	824.1	824.4	824.7	825.0	824.4	823.8
127.5°	894.7	895.7	896.7	897.7	898.3	898.7	899.0	899.4	899.7	899.4	899.1
130°	941.9	943.3	944.8	946.2	947.2	947.8	948.4	948.9	949.5	949.2	948.9
132.5°	989.5	991.9	994.2	996.6	997.7	997.6	997.5	997.4	997.3	997.0	996.7
135°	1062.8	1064.5	1066.3	1068.0	1069.0	1069.3	1069.6	1069.9	1070.2	1070.2	1070.2
137.5°	1132.3	1134.0	1135.6	1137.3	1138.4	1139.1	1139.7	1140.4	1141.0	1141.3	1141.7
140°	1176.7	1178.1	1179.6	1181.0	1182.1	1183.0	1183.9	1184.7	1185.6	1186.2	1186.8
142.5°	1221.1	1222.3	1223.5	1224.7	1225.8	1226.9	1228.0	1229.1	1230.2	1230.6	1230.9
145°	1286.6	1287.8	1288.9	1290.1	1291.1	1292.0	1292.8	1293.7	1294.6	1294.6	1294.6
147.5°	1346.8	1347.5	1348.1	1348.7	1349.4	1350.1	1350.8	1351.5	1352.2	1352.9	1353.5
150°	1386.4	1386.1	1385.8	1385.5	1385.9	1387.1	1388.3	1389.4	1390.6	1390.6	1390.6
152.5°	1420.3	1420.7	1421.1	1421.5	1421.9	1422.4	1422.8	1423.3	1423.8	1424.5	1425.1
155°	1471.0	1471.0	1471.0	1471.0	1471.1	1471.4	1471.7	1472.0	1472.3	1473.4	1474.6
157.5°	1516.0	1515.4	1514.7	1514.1	1513.9	1514.2	1514.5	1514.8	1515.1	1516.2	1517.4
160°	1542.8	1541.9	1541.0	1540.2	1539.9	1540.2	1540.5	1540.7	1541.0	1542.2	1543.3
162.5°	1566.9	1566.2	1565.6	1565.0	1564.7	1564.7	1564.8	1564.8	1564.9	1566.3	1567.7
165°	1598.8	1598.2	1597.7	1597.1	1597.0	1597.2	1597.5	1597.8	1598.1	1599.3	1600.4
167.5°	1625.2	1624.1	1622.9	1621.8	1621.2	1621.2	1621.2	1621.2	1621.2	1622.9	1624.7
170°	1639.8	1638.6	1637.5	1636.3	1635.7	1635.7	1635.7	1635.7	1635.7	1637.5	1639.2
172.5°	1650.1	1649.0	1647.8	1646.7	1646.1	1646.1	1646.1	1646.1	1646.1	1647.8	1649.6
175°	1661.8	1660.7	1659.5	1658.4	1657.8	1657.8	1657.8	1657.8	1657.8	1659.5	1661.2
177.5°	1668.0	1667.1	1666.2	1665.2	1664.7	1664.4	1664.2	1664.0	1663.7	1665.1	1666.5
180°	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4	1223.4
2.5°	1279.4	1282.8	1289.8	1287.3	1290.7	1292.3	1294.0
5°	1382.8	1399.4	1406.7	1405.6	1416.5	1413.9	1411.3
7.5°	1499.5	1517.0	1526.7	1538.9	1545.9	1546.4	1552.6
10°	1565.6	1588.4	1597.8	1610.7	1619.0	1623.7	1623.2
12.5°	1616.2	1634.1	1655.1	1661.4	1672.6	1678.5	1676.4
15°	1677.2	1705.8	1727.6	1738.5	1752.5	1756.6	1762.4
17.5°	1731.6	1769.9	1795.4	1829.2	1842.0	1849.8	1845.2
20°	1772.7	1823.1	1848.6	1889.1	1911.4	1923.3	1919.2
22.5°	1821.3	1875.9	1922.9	1958.0	1992.0	2008.1	2011.4
25°	1904.6	1979.4	2048.5	2094.7	2136.7	2146.6	2168.4
27.5°	1997.7	2085.9	2159.7	2208.3	2237.6	2248.6	2255.4
30°	2056.3	2144.0	2199.6	2230.7	2240.1	2239.0	2238.0
32.5°	2084.9	2139.9	2150.5	2141.8	2120.4	2102.4	2083.5
35°	2044.3	2003.3	1942.0	1863.1	1804.9	1746.3	1740.5
37.5°	1838.6	1707.4	1605.4	1491.5	1425.8	1385.2	1357.1
40°	1645.0	1496.0	1372.4	1276.3	1209.3	1182.9	1156.9
42.5°	1434.8	1292.4	1183.0	1102.7	1052.3	1022.9	1002.4
45°	1165.7	1040.1	954.4	896.2	856.3	833.4	820.4
47.5°	955.2	862.3	789.5	747.5	719.9	702.1	702.2
50°	842.2	753.4	705.1	671.9	648.0	634.0	636.6
52.5°	742.1	675.8	634.5	606.7	589.0	580.4	580.1
55°	620.5	572.7	545.7	525.5	513.5	503.7	505.8
57.5°	530.8	490.5	472.4	455.6	447.3	443.3	437.6
60°	475.1	444.0	428.4	414.9	406.6	403.5	397.7
62.5°	425.7	401.2	386.0	375.0	367.5	366.5	362.0
65°	357.8	339.1	325.6	320.4	312.6	310.5	310.5
67.5°	294.9	281.5	271.1	266.3	262.8	263.4	260.9
70°	255.5	244.6	237.8	232.6	230.0	230.5	228.5
72.5°	223.5	211.3	205.4	202.3	198.9	200.2	199.4
75°	169.3	163.0	159.9	156.8	154.7	153.7	152.7
77.5°	124.3	118.8	116.4	114.7	115.0	112.5	114.4
80°	96.1	91.4	89.8	87.2	86.7	86.7	86.2
82.5°	70.3	67.7	66.6	64.4	63.5	64.3	62.9
85°	36.3	34.3	33.8	33.8	32.7	31.7	34.3
87.5°	18.3	16.9	17.2	16.9	17.1	16.9	16.2
90°	25.1	26.5	27.7	28.5	29.4	30.3	31.1
92.5°	55.5	57.4	58.7	59.3	60.0	60.6	61.2
95°	105.9	108.0	109.2	109.8	110.4	111.0	111.6
97.5°	164.7	166.6	167.8	168.1	168.5	168.8	169.2
100°	206.2	208.8	210.4	211.0	211.6	212.2	212.7
102.5°	248.4	251.3	253.1	253.9	254.7	255.5	256.3
105°	315.2	316.9	318.2	319.1	320.0	320.8	321.7
107.5°	387.6	388.5	388.9	388.8	388.7	388.7	388.6
110°	438.4	439.3	439.6	439.3	439.0	438.7	438.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	488.9	489.3	489.3	488.8	488.3	487.7	487.2
115°	566.0	565.7	565.4	565.1	564.8	564.6	564.3
117.5°	644.3	644.6	644.1	643.0	641.8	640.7	639.5
120°	696.6	696.6	696.0	694.8	693.7	692.5	691.4
122.5°	747.8	747.5	747.0	746.0	745.1	744.2	743.3
125°	823.3	822.7	822.3	822.0	821.7	821.4	821.1
127.5°	898.8	898.6	898.1	897.6	897.0	896.4	895.8
130°	948.7	948.4	947.9	947.4	946.8	946.2	945.6
132.5°	996.4	996.1	995.6	994.8	993.9	993.1	992.3
135°	1070.2	1070.2	1069.6	1068.4	1067.3	1066.1	1065.0
137.5°	1142.0	1142.4	1141.8	1140.4	1138.9	1137.5	1136.1
140°	1187.3	1187.9	1187.5	1186.0	1184.6	1183.2	1181.7
142.5°	1231.3	1231.6	1231.1	1229.6	1228.2	1226.7	1225.3
145°	1294.6	1294.6	1294.1	1293.3	1292.4	1291.5	1290.7
147.5°	1354.2	1354.9	1354.3	1352.3	1350.4	1348.4	1346.5
150°	1390.6	1390.6	1390.3	1389.7	1389.1	1388.5	1388.0
152.5°	1425.8	1426.5	1426.4	1425.3	1424.3	1423.2	1422.2
155°	1475.7	1476.9	1476.7	1475.3	1473.9	1472.4	1471.0
157.5°	1518.5	1519.7	1519.3	1517.4	1515.5	1513.6	1511.7
160°	1544.5	1545.6	1545.5	1544.1	1542.6	1541.2	1539.7
162.5°	1569.0	1570.4	1570.3	1568.6	1566.9	1565.3	1563.6
165°	1601.6	1602.7	1602.4	1600.7	1599.0	1597.2	1595.5
167.5°	1626.4	1628.1	1628.1	1626.3	1624.5	1622.7	1620.9
170°	1640.9	1642.6	1642.5	1640.5	1638.5	1636.4	1634.4
172.5°	1651.3	1653.0	1653.0	1651.2	1649.4	1647.6	1645.8
175°	1663.0	1664.7	1664.5	1662.5	1660.5	1658.5	1656.5
177.5°	1667.9	1669.3	1669.2	1667.5	1665.9	1664.3	1662.7
180°	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9	1666.9

(END OF REPORT)