

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: P331573-940

Luminaire Tested: **S122DIW-S865D1240U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331573-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIW-S865D1240U940-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1240 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7818.0 lumens  
Efficiency: N/A  
Efficacy: 112.0 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

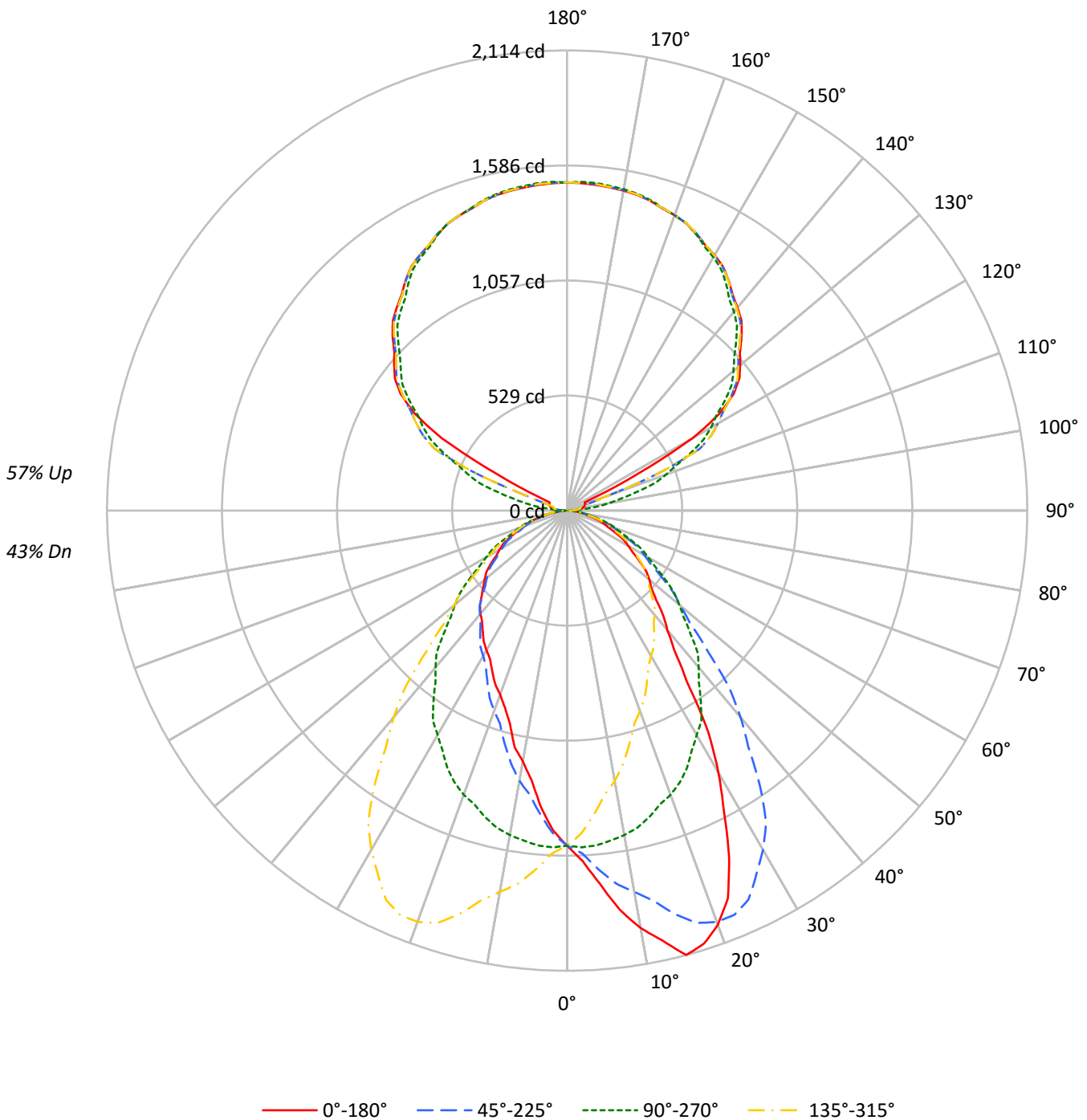
Input Watts (W): 69.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	43
1	97	93	89	86	88	85	82	79	70	68	66	57	56	54	45	44	43	37
2	88	81	75	71	81	75	70	65	62	59	55	51	48	46	40	38	37	32
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	36	34	32	28
4	74	64	56	50	68	59	52	47	49	44	40	41	37	34	32	30	28	24
5	68	57	49	43	62	53	46	41	44	39	35	37	33	30	29	27	25	21
6	63	51	43	38	58	47	41	35	40	35	31	33	29	26	27	24	22	19
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	25	22	20	17
8	54	42	35	30	50	39	32	28	33	28	24	28	24	21	23	20	18	15
9	50	39	31	26	46	36	29	25	31	25	22	26	22	19	21	18	16	14
10	47	35	28	24	43	33	27	22	28	23	20	24	20	17	19	17	15	13

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

	0°	90°	180°	270°
0°	24857	24857	24857	24857
5°	27869	25020	22172	25020
10°	31936	24815	19189	24815
15°	35328	24359	16951	24359
20°	34790	23871	15454	23871
25°	31370	23222	14503	23222
30°	25922	22184	13811	22184
35°	18892	21098	13318	21098
40°	15091	19816	13044	19816
45°	13186	18333	12673	18333
50°	12396	16900	12424	16900
55°	11426	15440	12090	15440
60°	10469	13892	11580	13892
65°	9540	12500	11075	12500
70°	8658	11146	10334	11146
75°	7679	9632	9158	9632
80°	6602	7978	7373	7978
85°	5910	5910	4372	5910



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.6	1.9
10°-20°	426.3	5.5
20°-30°	618.6	7.9
30°-40°	652.8	8.4
40°-50°	578.0	7.4
50°-60°	461.3	5.9
60°-70°	313.5	4.0
70°-80°	160.7	2.1
80°-90°	42.5	0.5
90°-100°	50.3	0.6
100°-110°	184.4	2.4
110°-120°	492.9	6.3
120°-130°	813.7	10.4
130°-140°	865.3	11.1
140°-150°	804.3	10.3
150°-160°	646.7	8.3
160°-170°	416.7	5.3
170°-180°	143.4	1.8
0°-30°	1191.5	15.2
0°-40°	1844.3	23.6
0°-60°	2883.6	36.9
0°-90°	3400.3	43.5
90°-120°	727.6	9.3
90°-150°	3210.9	41.1
90°-180°	4418.0	56.5
0°-180°	7818.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1540	1540	1540	1540	1540	
5°	1720	1544	1368	1544	1720	172
15°	2114	1457	1014	1457	2114	583
25°	1761	1304	814	1304	1761	796
35°	958	1070	676	1070	958	623
45°	578	803	555	803	578	454
55°	406	548	430	548	406	364
65°	250	327	290	327	250	248
75°	123	154	147	154	123	132
85°	32	32	24	32	32	36
90°	29	1	29	1	29	15
95°	47	71	47	71	47	44
105°	83	332	83	332	83	86
115°	89	627	89	627	89	224
125°	933	887	933	887	933	807
135°	1133	1097	1133	1097	1133	874
145°	1293	1273	1293	1273	1293	808
155°	1403	1402	1403	1402	1403	647
165°	1474	1477	1474	1477	1474	416
175°	1502	1511	1502	1511	1502	143
180°	1507	1507	1507	1507	1507	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1610.6	1611.1	1612.0	1604.5	1603.5	1603.5	1596.9	1591.2	1584.6	1575.6	1576.5
5°	1719.5	1726.0	1728.3	1721.3	1710.6	1709.4	1699.3	1682.7	1667.4	1654.9	1646.1
7.5°	1849.4	1852.0	1846.2	1836.8	1828.9	1814.7	1796.0	1777.7	1752.0	1728.5	1710.9
10°	1947.9	1951.4	1941.3	1927.7	1916.5	1899.9	1872.7	1844.9	1811.2	1778.6	1752.6
12.5°	2022.7	2031.4	2018.5	2016.7	1997.4	1974.7	1942.3	1928.2	1880.8	1835.4	1807.5
15°	2113.5	2112.9	2114.2	2102.8	2088.7	2085.1	2050.8	2013.6	1946.7	1920.0	1873.9
17.5°	2087.2	2096.2	2100.4	2100.2	2099.9	2097.7	2086.7	2063.2	2029.6	1986.5	1933.1
20°	2024.8	2036.6	2038.4	2052.0	2059.7	2069.7	2073.9	2067.3	2046.7	2010.5	1964.4
22.5°	1928.2	1931.5	1937.1	1958.3	1975.0	2000.2	2013.3	2035.2	2027.2	2009.6	1971.0
25°	1760.9	1755.0	1775.7	1786.3	1824.8	1865.0	1894.0	1925.9	1954.4	1971.5	1960.2
27.5°	1560.0	1551.0	1582.1	1610.3	1641.6	1685.2	1730.4	1783.7	1828.1	1883.6	1902.6
30°	1390.4	1395.8	1425.4	1455.5	1502.9	1564.4	1615.3	1673.9	1737.2	1799.3	1842.5
32.5°	1207.7	1228.2	1247.0	1293.2	1334.9	1403.5	1478.0	1551.3	1630.2	1700.8	1767.7
35°	958.5	982.2	1008.3	1042.0	1100.5	1168.6	1241.4	1340.2	1447.9	1544.4	1623.6
37.5°	806.8	803.1	818.0	842.3	889.7	944.7	1028.5	1126.1	1252.9	1366.2	1478.0
40°	716.0	713.5	724.2	746.7	782.8	823.0	896.4	982.2	1099.9	1238.4	1371.5
42.5°	653.4	654.9	660.8	676.6	701.4	734.5	789.4	862.5	970.3	1100.6	1243.8
45°	577.5	581.7	588.2	595.8	610.0	637.2	668.0	720.1	805.3	914.2	1055.0
47.5°	522.8	522.9	529.6	536.3	544.7	560.1	585.1	617.9	678.0	766.6	887.7
50°	493.5	489.4	494.1	499.4	508.3	518.9	535.5	566.2	606.5	678.1	779.3
52.5°	457.5	457.6	461.9	463.9	471.8	482.5	497.6	518.9	555.4	611.4	694.6
55°	405.9	408.8	411.3	414.7	421.9	429.5	441.4	455.6	484.0	526.0	587.5
57.5°	357.4	358.3	360.7	367.5	371.9	379.1	390.3	403.1	421.6	452.7	499.0
60°	324.2	324.2	329.0	331.9	337.9	344.9	353.8	366.2	382.8	408.2	445.6
62.5°	294.0	293.5	295.3	300.2	304.7	311.4	320.2	330.7	346.3	369.0	399.7
65°	249.7	248.5	252.1	253.2	258.0	264.5	271.6	282.9	295.2	311.8	339.0
67.5°	207.1	208.5	210.4	212.7	215.3	222.1	226.9	234.8	245.3	259.0	277.5
70°	183.4	183.4	183.4	185.2	188.8	192.3	197.1	203.6	213.6	225.4	242.0
72.5°	156.9	158.8	160.7	159.6	164.2	166.3	171.9	175.6	185.2	192.8	207.4
75°	123.1	123.1	123.1	126.0	127.8	129.6	133.1	136.7	141.4	150.9	158.5
77.5°	91.8	91.6	92.2	92.9	94.8	96.9	98.0	101.2	105.6	109.9	116.5
80°	71.0	72.2	72.8	73.9	73.9	75.2	75.7	79.9	82.8	85.8	90.0
82.5°	54.9	55.1	55.3	55.5	56.0	56.7	58.2	59.6	60.5	63.0	66.3
85°	31.9	31.4	31.4	32.5	31.9	31.9	33.2	34.3	34.3	34.9	36.6
87.5°	18.2	18.1	18.5	17.9	17.8	18.1	17.8	17.1	17.4	17.7	17.7
90°	29.4	29.0	28.4	28.0	27.6	26.7	25.4	24.3	23.0	21.8	19.9
92.5°	29.4	29.2	28.9	28.5	28.3	27.8	27.2	26.6	25.9	25.3	24.3
95°	46.9	47.2	47.3	47.6	47.9	47.3	46.2	44.9	43.8	42.5	40.8
97.5°	62.6	62.3	62.1	61.7	61.4	60.8	59.8	58.9	57.9	57.0	53.1
100°	73.1	72.6	72.1	71.6	71.2	69.9	67.9	66.1	64.1	62.2	58.1
102.5°	78.3	77.7	77.0	76.2	75.6	74.0	71.5	68.9	66.4	63.9	98.4
105°	82.9	81.9	81.0	80.0	79.0	77.2	74.5	71.9	69.2	66.5	132.7
107.5°	85.3	84.4	83.4	82.4	81.4	82.3	85.0	87.7	90.4	93.2	172.5
110°	86.1	85.2	84.3	83.3	82.3	93.9	118.2	142.4	166.7	190.9	260.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	87.0	86.2	85.5	84.7	83.9	127.8	216.2	304.6	393.1	481.4	498.8
115°	89.4	106.9	124.4	141.8	159.3	224.1	336.4	448.5	560.8	673.1	667.0
117.5°	365.2	422.6	479.9	537.3	594.6	636.9	664.0	691.2	718.3	745.5	741.3
120°	665.4	698.1	730.8	763.6	796.3	811.2	808.2	805.4	802.5	799.5	795.2
122.5°	830.3	836.7	843.0	849.4	855.7	858.0	856.3	854.5	852.7	851.0	846.3
125°	932.6	931.9	931.2	930.4	929.7	928.5	926.8	925.1	923.5	921.8	917.1
127.5°	997.2	997.0	996.9	996.8	996.7	995.3	992.8	990.3	987.9	985.4	982.0
130°	1037.3	1037.6	1037.9	1038.0	1038.3	1037.1	1034.5	1031.8	1029.1	1026.4	1023.8
132.5°	1076.7	1076.8	1077.1	1077.4	1077.5	1076.6	1074.2	1072.0	1069.7	1067.5	1064.8
135°	1133.4	1133.8	1134.3	1134.8	1135.2	1134.3	1131.8	1129.4	1127.0	1124.6	1122.4
137.5°	1185.0	1185.9	1186.7	1187.5	1188.3	1187.6	1185.2	1182.8	1180.4	1178.0	1175.5
140°	1217.4	1218.5	1219.8	1220.9	1222.2	1221.7	1219.5	1217.4	1215.1	1213.0	1210.3
142.5°	1248.8	1249.9	1251.2	1252.4	1253.6	1253.2	1251.2	1249.2	1247.2	1245.3	1242.2
145°	1292.6	1293.8	1295.0	1296.2	1297.4	1297.2	1295.5	1293.8	1292.1	1290.4	1286.3
147.5°	1331.2	1332.2	1333.2	1334.3	1335.2	1335.2	1333.9	1332.7	1331.4	1330.1	1326.1
150°	1354.8	1355.9	1357.2	1358.4	1359.6	1359.5	1358.1	1356.6	1355.1	1353.7	1349.8
152.5°	1374.8	1376.4	1378.0	1379.7	1381.3	1381.3	1379.8	1378.4	1377.0	1375.5	1371.8
155°	1402.8	1404.7	1406.7	1408.5	1410.5	1410.8	1409.3	1407.8	1406.4	1405.0	1402.0
157.5°	1428.3	1430.2	1432.1	1434.0	1435.8	1436.0	1434.3	1432.7	1431.0	1429.4	1427.4
160°	1443.1	1444.8	1446.5	1448.2	1449.9	1450.0	1448.6	1447.2	1445.6	1444.2	1442.8
162.5°	1455.4	1457.4	1459.5	1461.6	1463.7	1463.9	1462.2	1460.6	1458.9	1457.3	1456.1
165°	1473.6	1475.3	1477.0	1478.7	1480.4	1480.4	1478.7	1477.0	1475.3	1473.6	1472.9
167.5°	1485.2	1487.4	1489.6	1491.7	1494.0	1494.2	1492.5	1490.8	1489.1	1487.4	1486.7
170°	1492.2	1494.4	1496.6	1498.8	1500.9	1501.2	1499.5	1497.8	1496.1	1494.4	1493.9
172.5°	1497.4	1499.6	1501.8	1504.0	1506.2	1506.4	1504.7	1503.0	1501.3	1499.6	1499.1
175°	1502.0	1504.4	1506.9	1509.3	1511.7	1512.1	1510.4	1508.7	1507.0	1505.3	1504.9
177.5°	1504.9	1506.6	1508.3	1510.1	1511.8	1512.1	1510.6	1509.3	1508.0	1506.6	1506.4
180°	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1579.8	1576.0	1573.7	1565.1	1557.6	1550.0	1547.7	1548.5	1538.2	1528.2	1523.9
5°	1641.4	1629.5	1618.3	1602.3	1583.4	1562.6	1552.0	1543.7	1523.0	1500.6	1487.6
7.5°	1696.5	1679.5	1658.0	1627.9	1600.3	1567.7	1547.0	1528.7	1498.4	1466.7	1447.2
10°	1730.1	1707.0	1679.2	1642.5	1608.8	1569.1	1541.3	1513.6	1478.0	1440.2	1416.5
12.5°	1759.0	1727.9	1700.5	1653.4	1613.6	1564.0	1531.0	1491.7	1454.4	1409.4	1386.3
15°	1827.7	1770.3	1718.2	1665.0	1615.9	1546.7	1510.0	1457.3	1408.2	1352.6	1326.0
17.5°	1880.9	1816.4	1734.4	1666.7	1609.4	1532.8	1478.9	1415.8	1357.7	1294.1	1257.9
20°	1911.2	1837.2	1749.0	1668.6	1599.9	1512.3	1453.8	1389.3	1321.2	1249.6	1210.6
22.5°	1929.1	1851.4	1764.2	1661.4	1581.0	1495.8	1422.1	1351.4	1282.5	1205.1	1164.2
25°	1934.8	1863.9	1771.6	1655.6	1557.4	1460.9	1372.2	1303.5	1220.0	1147.9	1088.2
27.5°	1906.7	1855.7	1767.0	1644.4	1530.0	1417.2	1318.3	1240.5	1152.5	1074.2	1014.1
30°	1872.1	1842.5	1756.1	1633.1	1508.2	1387.0	1278.1	1189.9	1102.3	1023.1	961.5
32.5°	1818.6	1812.2	1736.3	1616.9	1485.1	1348.6	1235.9	1146.8	1049.8	971.9	913.2
35°	1713.5	1742.0	1694.0	1581.0	1441.4	1294.1	1172.2	1070.4	969.8	895.2	840.2
37.5°	1572.7	1643.2	1630.7	1528.3	1382.4	1234.7	1100.1	993.7	897.9	822.6	768.6
40°	1475.7	1565.6	1578.6	1488.1	1340.8	1188.7	1046.2	940.2	846.7	778.1	723.6
42.5°	1371.5	1476.6	1512.3	1439.8	1295.3	1140.4	997.8	888.1	795.6	728.9	680.6
45°	1197.0	1336.1	1400.5	1359.1	1219.5	1060.9	914.2	802.9	718.9	656.2	618.9
47.5°	1033.8	1185.7	1272.5	1257.8	1135.1	978.0	832.9	726.2	644.4	594.4	561.1
50°	918.3	1074.5	1179.2	1184.0	1074.5	918.9	773.4	672.8	597.6	550.9	523.6
52.5°	818.0	967.1	1081.3	1106.3	1006.8	857.4	719.9	619.7	553.6	510.6	486.2
55°	687.0	813.0	939.6	985.8	905.9	763.8	636.7	548.5	486.3	456.8	435.5
57.5°	571.1	676.2	793.1	844.1	794.9	673.3	554.0	477.5	427.0	401.2	384.9
60°	510.1	592.9	697.1	758.0	715.3	607.1	502.9	430.2	388.8	365.7	350.3
62.5°	453.3	526.6	614.7	670.4	647.2	545.1	451.8	387.5	351.8	330.2	319.1
65°	374.0	431.9	500.0	551.4	536.1	458.5	382.3	327.2	298.8	281.6	272.8
67.5°	307.9	349.8	397.0	442.1	429.7	374.8	313.4	270.6	249.5	234.7	229.3
70°	266.3	298.2	340.2	376.3	366.2	321.3	272.8	236.1	217.8	205.4	200.0
72.5°	226.5	252.8	284.8	314.3	307.6	270.2	229.7	202.0	187.9	176.5	172.1
75°	171.0	191.1	210.6	230.2	228.4	199.4	175.8	154.4	143.2	134.3	132.5
77.5°	126.3	137.5	150.8	162.4	159.2	142.6	124.0	111.8	103.5	97.6	96.7
80°	96.5	103.0	112.4	120.7	116.5	109.5	94.7	85.8	79.9	73.9	71.6
82.5°	69.9	76.4	82.1	86.6	83.5	76.8	67.7	61.6	58.1	54.0	53.1
85°	36.6	40.2	42.6	43.8	42.6	38.4	34.3	31.9	29.0	27.2	26.7
87.5°	17.7	17.4	17.0	17.5	15.5	15.0	12.6	10.6	10.7	10.8	10.3
90°	17.9	16.0	14.1	11.8	9.1	6.4	3.7	1.1	3.7	6.4	9.1
92.5°	23.4	22.4	21.4	21.0	21.3	21.6	21.8	22.0	21.8	21.6	21.3
95°	39.1	37.5	35.8	38.9	46.9	54.9	62.9	70.9	62.9	54.9	46.9
97.5°	49.0	45.1	41.2	50.6	73.1	95.6	118.2	140.7	118.2	95.6	73.1
100°	53.9	49.8	45.7	60.3	93.5	126.6	159.9	193.1	159.9	126.6	93.5
102.5°	132.9	167.3	201.8	222.6	229.6	236.6	243.6	250.7	243.6	236.6	229.6
105°	198.9	265.1	331.3	360.7	353.4	346.2	338.9	331.6	338.9	346.2	353.4
107.5°	251.9	331.3	410.6	447.4	441.5	435.6	429.7	423.9	429.7	435.6	441.5
110°	331.0	401.1	471.1	503.5	498.5	493.4	488.3	483.2	488.3	493.4	498.5





TEST NUMBER: P331573-940

CATALOG NUMBER: S122DIW-S865D1240U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	516.1	533.4	550.7	557.1	552.6	548.0	543.6	539.0	543.6	548.0	552.6
115°	660.9	654.9	648.8	643.7	639.5	635.4	631.3	627.2	631.3	635.4	639.5
117.5°	737.1	732.9	728.8	724.4	719.8	715.2	710.6	706.0	710.6	715.2	719.8
120°	790.9	786.5	782.1	778.1	774.5	770.8	767.2	763.6	767.2	770.8	774.5
122.5°	841.5	836.8	832.1	827.8	823.9	820.1	816.3	812.4	816.3	820.1	823.9
125°	912.5	907.9	903.3	899.4	896.3	893.1	889.9	886.8	889.9	893.1	896.3
127.5°	978.6	975.1	971.7	968.2	964.7	961.2	957.7	954.2	957.7	961.2	964.7
130°	1021.1	1018.4	1015.7	1012.5	1008.6	1004.8	1000.9	997.0	1000.9	1004.8	1008.6
132.5°	1062.1	1059.4	1056.8	1053.8	1050.5	1047.2	1043.9	1040.6	1043.9	1047.2	1050.5
135°	1120.3	1118.0	1115.9	1112.9	1108.9	1105.1	1101.2	1097.3	1101.2	1105.1	1108.9
137.5°	1173.1	1170.6	1168.1	1165.6	1162.9	1160.1	1157.4	1154.7	1157.4	1160.1	1162.9
140°	1207.6	1205.0	1202.3	1200.0	1198.0	1196.1	1194.2	1192.2	1194.2	1196.1	1198.0
142.5°	1239.1	1236.1	1233.1	1230.7	1228.9	1227.2	1225.4	1223.7	1225.4	1227.2	1228.9
145°	1282.2	1278.1	1273.9	1272.0	1272.2	1272.5	1272.7	1272.9	1272.7	1272.5	1272.2
147.5°	1322.0	1317.9	1313.8	1312.2	1313.1	1314.1	1315.0	1315.9	1315.0	1314.1	1313.1
150°	1345.9	1342.0	1338.2	1337.0	1338.7	1340.5	1342.2	1343.9	1342.2	1340.5	1338.7
152.5°	1368.2	1364.4	1360.8	1359.9	1361.7	1363.6	1365.6	1367.4	1365.6	1363.6	1361.7
155°	1399.1	1396.2	1393.3	1392.9	1395.1	1397.3	1399.5	1401.7	1399.5	1397.3	1395.1
157.5°	1425.3	1423.3	1421.2	1421.1	1423.0	1424.8	1426.6	1428.5	1426.6	1424.8	1423.0
160°	1441.3	1439.8	1438.4	1438.4	1439.8	1441.3	1442.8	1444.2	1442.8	1441.3	1439.8
162.5°	1454.7	1453.5	1452.2	1452.3	1453.8	1455.3	1456.7	1458.2	1456.7	1455.3	1453.8
165°	1472.2	1471.5	1470.8	1471.1	1472.6	1474.0	1475.5	1476.9	1475.5	1474.0	1472.6
167.5°	1486.0	1485.4	1484.7	1485.1	1486.6	1488.0	1489.4	1490.9	1489.4	1488.0	1486.6
170°	1493.4	1492.9	1492.5	1492.9	1494.4	1495.8	1497.3	1498.8	1497.3	1495.8	1494.4
172.5°	1498.6	1498.2	1497.7	1498.2	1499.6	1501.1	1502.5	1504.0	1502.5	1501.1	1499.6
175°	1504.3	1503.9	1503.3	1504.0	1505.7	1507.3	1509.0	1510.7	1509.0	1507.3	1505.7
177.5°	1506.2	1506.0	1505.8	1506.4	1507.8	1509.1	1510.5	1511.8	1510.5	1509.1	1507.8
180°	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1519.2	1516.4	1506.5	1501.3	1492.7	1484.7	1479.4	1481.8	1483.7	1482.7	1481.4
5°	1475.7	1464.5	1447.2	1432.4	1421.8	1402.3	1394.0	1389.9	1386.3	1382.2	1378.0
7.5°	1423.9	1406.1	1381.4	1360.4	1340.5	1316.3	1302.4	1294.1	1285.7	1276.3	1268.0
10°	1387.0	1362.1	1336.1	1306.4	1282.8	1260.9	1241.4	1228.3	1216.6	1205.2	1197.0
12.5°	1348.1	1319.5	1287.3	1246.8	1220.8	1189.5	1186.4	1163.5	1145.0	1138.1	1128.4
15°	1286.4	1246.1	1205.2	1157.4	1136.7	1108.2	1090.5	1072.7	1056.8	1045.5	1042.6
17.5°	1216.2	1164.1	1123.5	1089.0	1055.1	1026.0	1009.7	995.5	982.3	967.3	965.3
20°	1162.7	1117.7	1073.4	1043.1	1008.3	978.7	958.5	944.3	933.1	924.3	916.5
22.5°	1112.1	1062.8	1022.2	989.2	954.8	930.9	915.0	901.3	891.9	882.1	874.9
25°	1030.7	992.3	947.9	910.6	882.2	866.8	853.8	842.0	836.1	829.6	821.3
27.5°	959.6	916.9	875.4	846.5	821.5	807.9	798.7	790.6	785.1	781.2	776.5
30°	909.5	866.2	833.7	805.3	784.6	771.0	765.1	760.4	753.9	751.4	749.1
32.5°	861.1	822.2	794.4	769.8	750.0	741.2	735.8	731.5	726.4	724.0	719.3
35°	792.9	760.4	733.1	719.5	703.6	695.8	691.7	685.8	681.0	678.7	678.1
37.5°	728.6	700.3	682.4	664.9	658.2	653.4	647.8	643.7	642.3	641.9	641.4
40°	687.0	663.9	647.9	633.7	630.7	623.7	618.9	615.4	615.4	616.0	615.4
42.5°	649.1	628.4	614.3	602.0	598.5	594.3	589.6	589.3	590.3	592.3	590.3
45°	591.7	576.9	566.9	560.9	554.4	550.3	549.7	551.4	552.1	552.7	554.4
47.5°	539.0	529.1	520.0	513.4	510.6	509.9	509.2	512.3	515.1	516.2	518.9
50°	507.7	496.4	488.7	484.6	482.2	481.1	482.2	485.8	488.1	491.1	492.8
52.5°	472.6	464.7	459.4	456.2	455.2	455.9	456.2	460.2	464.0	465.0	465.9
55°	424.3	418.3	417.1	411.8	414.2	413.6	416.5	418.9	422.5	426.1	426.6
57.5°	375.9	371.2	368.0	368.5	369.3	371.8	374.3	378.4	382.3	386.0	386.4
60°	343.8	341.4	339.7	339.7	340.8	344.4	347.3	351.4	353.8	356.2	357.9
62.5°	314.4	312.1	310.3	311.2	314.3	316.5	319.9	322.1	324.5	326.8	327.7
65°	268.0	266.9	268.7	269.8	270.4	273.4	277.5	279.3	281.6	282.9	287.0
67.5°	225.3	225.5	225.3	226.9	230.4	231.1	235.1	239.2	239.6	241.9	244.6
70°	196.4	197.6	198.9	200.0	203.0	204.1	207.1	208.8	211.2	213.0	214.8
72.5°	170.0	170.1	171.4	171.1	173.6	176.2	178.7	180.5	182.8	185.1	186.8
75°	130.7	130.7	132.0	132.5	135.5	138.5	137.9	139.0	141.4	143.7	145.0
77.5°	95.5	94.2	95.5	96.1	97.0	99.5	100.0	101.7	104.3	103.5	104.9
80°	72.8	71.0	72.8	73.4	73.4	76.3	76.3	77.5	79.3	77.5	79.3
82.5°	52.0	51.1	52.4	52.5	53.5	53.6	54.6	54.8	56.5	55.7	56.5
85°	26.0	25.4	26.0	25.4	26.0	26.7	26.7	26.0	26.0	27.2	25.4
87.5°	10.4	10.3	10.3	10.7	10.6	10.5	10.3	10.5	10.8	10.1	10.3
90°	11.8	14.1	16.0	17.9	19.9	21.8	23.0	24.3	25.4	26.7	27.6
92.5°	21.0	21.4	22.4	23.4	24.3	25.3	25.9	26.6	27.2	27.8	28.3
95°	38.9	35.8	37.5	39.1	40.8	42.5	43.8	44.9	46.2	47.3	47.9
97.5°	50.6	41.2	45.1	49.0	53.1	57.0	57.9	58.9	59.8	60.8	61.4
100°	60.3	45.7	49.8	53.9	58.1	62.2	64.1	66.1	67.9	69.9	71.2
102.5°	222.6	201.8	167.3	132.9	98.4	63.9	66.4	68.9	71.5	74.0	75.6
105°	360.7	331.3	265.1	198.9	132.7	66.5	69.2	71.9	74.5	77.2	79.0
107.5°	447.4	410.6	331.3	251.9	172.5	93.2	90.4	87.7	85.0	82.3	81.4
110°	503.5	471.1	401.1	331.0	260.9	190.9	166.7	142.4	118.2	93.9	82.3



TEST NUMBER: P331573-940

CATALOG NUMBER: S122DIW-S865D1240U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	557.1	550.7	533.4	516.1	498.8	481.4	393.1	304.6	216.2	127.8	83.9
115°	643.7	648.8	654.9	660.9	667.0	673.1	560.8	448.5	336.4	224.1	159.3
117.5°	724.4	728.8	732.9	737.1	741.3	745.5	718.3	691.2	664.0	636.9	594.6
120°	778.1	782.1	786.5	790.9	795.2	799.5	802.5	805.4	808.2	811.2	796.3
122.5°	827.8	832.1	836.8	841.5	846.3	851.0	852.7	854.5	856.3	858.0	855.7
125°	899.4	903.3	907.9	912.5	917.1	921.8	923.5	925.1	926.8	928.5	929.7
127.5°	968.2	971.7	975.1	978.6	982.0	985.4	987.9	990.3	992.8	995.3	996.7
130°	1012.5	1015.7	1018.4	1021.1	1023.8	1026.4	1029.1	1031.8	1034.5	1037.1	1038.3
132.5°	1053.8	1056.8	1059.4	1062.1	1064.8	1067.5	1069.7	1072.0	1074.2	1076.6	1077.5
135°	1112.9	1115.9	1118.0	1120.3	1122.4	1124.6	1127.0	1129.4	1131.8	1134.3	1135.2
137.5°	1165.6	1168.1	1170.6	1173.1	1175.5	1178.0	1180.4	1182.8	1185.2	1187.6	1188.3
140°	1200.0	1202.3	1205.0	1207.6	1210.3	1213.0	1215.1	1217.4	1219.5	1221.7	1222.2
142.5°	1230.7	1233.1	1236.1	1239.1	1242.2	1245.3	1247.2	1249.2	1251.2	1253.2	1253.6
145°	1272.0	1273.9	1278.1	1282.2	1286.3	1290.4	1292.1	1293.8	1295.5	1297.2	1297.4
147.5°	1312.2	1313.8	1317.9	1322.0	1326.1	1330.1	1331.4	1332.7	1333.9	1335.2	1335.2
150°	1337.0	1338.2	1342.0	1345.9	1349.8	1353.7	1355.1	1356.6	1358.1	1359.5	1359.6
152.5°	1359.9	1360.8	1364.4	1368.2	1371.8	1375.5	1377.0	1378.4	1379.8	1381.3	1381.3
155°	1392.9	1393.3	1396.2	1399.1	1402.0	1405.0	1406.4	1407.8	1409.3	1410.8	1410.5
157.5°	1421.1	1421.2	1423.3	1425.3	1427.4	1429.4	1431.0	1432.7	1434.3	1436.0	1435.8
160°	1438.4	1438.4	1439.8	1441.3	1442.8	1444.2	1445.6	1447.2	1448.6	1450.0	1449.9
162.5°	1452.3	1452.2	1453.5	1454.7	1456.1	1457.3	1458.9	1460.6	1462.2	1463.9	1463.7
165°	1471.1	1470.8	1471.5	1472.2	1472.9	1473.6	1475.3	1477.0	1478.7	1480.4	1480.4
167.5°	1485.1	1484.7	1485.4	1486.0	1486.7	1487.4	1489.1	1490.8	1492.5	1494.2	1494.0
170°	1492.9	1492.5	1492.9	1493.4	1493.9	1494.4	1496.1	1497.8	1499.5	1501.2	1500.9
172.5°	1498.2	1497.7	1498.2	1498.6	1499.1	1499.6	1501.3	1503.0	1504.7	1506.4	1506.2
175°	1504.0	1503.3	1503.9	1504.3	1504.9	1505.3	1507.0	1508.7	1510.4	1512.1	1511.7
177.5°	1506.4	1505.8	1506.0	1506.2	1506.4	1506.6	1508.0	1509.3	1510.6	1512.1	1511.8
180°	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4



TEST NUMBER: P331573-940

CATALOG NUMBER: S122DIW-S865D1240U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1476.6	1475.7	1475.7	1471.4	1475.7	1475.7	1476.6	1481.4	1482.7	1483.7	1481.8
5°	1369.8	1368.0	1365.0	1368.0	1365.0	1368.0	1369.8	1378.0	1382.2	1386.3	1389.9
7.5°	1264.1	1257.0	1255.9	1248.9	1255.9	1257.0	1264.1	1268.0	1276.3	1285.7	1294.1
10°	1187.0	1182.2	1181.6	1170.4	1181.6	1182.2	1187.0	1197.0	1205.2	1216.6	1228.3
12.5°	1128.3	1116.9	1119.1	1112.6	1119.1	1116.9	1128.3	1128.4	1138.1	1145.0	1163.5
15°	1026.6	1026.6	1024.2	1014.1	1024.2	1026.6	1026.6	1042.6	1045.5	1056.8	1072.7
17.5°	953.6	952.3	946.7	949.6	946.7	952.3	953.6	965.3	967.3	982.3	995.5
20°	910.0	906.5	899.4	899.4	899.4	906.5	910.0	916.5	924.3	933.1	944.3
22.5°	868.9	868.6	861.0	863.4	861.0	868.6	868.9	874.9	882.1	891.9	901.3
25°	820.6	815.9	812.4	814.1	812.4	815.9	820.6	821.3	829.6	836.1	842.0
27.5°	775.0	772.4	772.1	767.3	772.1	772.4	775.0	776.5	781.2	785.1	790.6
30°	748.5	742.6	743.8	740.8	743.8	742.6	748.5	749.1	751.4	753.9	760.4
32.5°	718.2	716.0	714.9	712.4	714.9	716.0	718.2	719.3	724.0	726.4	731.5
35°	676.9	677.5	674.5	675.7	674.5	677.5	676.9	678.1	678.7	681.0	685.8
37.5°	640.8	642.7	641.3	641.7	641.3	642.7	640.8	641.4	641.9	642.3	643.7
40°	617.2	617.2	617.2	618.9	617.2	617.2	617.2	615.4	616.0	615.4	615.4
42.5°	594.4	593.4	592.5	592.4	592.5	593.4	594.4	590.3	592.3	590.3	589.3
45°	555.6	557.4	557.9	555.0	557.9	557.4	555.6	554.4	552.7	552.1	551.4
47.5°	520.5	520.7	520.5	523.1	520.5	520.7	520.5	518.9	516.2	515.1	512.3
50°	495.9	494.6	495.9	494.6	495.9	494.6	495.9	492.8	491.1	488.1	485.8
52.5°	469.8	470.0	469.3	469.1	469.3	470.0	469.8	465.9	465.0	464.0	460.2
55°	429.0	430.2	429.5	429.5	429.5	430.2	429.0	426.6	426.1	422.5	418.9
57.5°	386.7	387.8	388.6	386.0	388.6	387.8	386.7	386.4	386.0	382.3	378.4
60°	357.4	360.3	359.7	358.6	359.7	360.3	357.4	357.9	356.2	353.8	351.4
62.5°	330.4	331.4	331.4	331.1	331.4	331.4	330.4	327.7	326.8	324.5	322.1
65°	288.7	289.9	288.1	289.9	288.1	289.9	288.7	287.0	282.9	281.6	279.3
67.5°	243.9	244.2	245.6	246.4	245.6	244.2	243.9	244.6	241.9	239.6	239.2
70°	216.0	215.3	217.1	218.9	217.1	215.3	216.0	214.8	213.0	211.2	208.8
72.5°	186.6	187.9	187.3	188.6	187.3	187.9	186.6	186.8	185.1	182.8	180.5
75°	143.7	145.5	145.0	146.8	145.0	145.5	143.7	145.0	143.7	141.4	139.0
77.5°	103.9	104.2	103.9	104.9	103.9	104.2	103.9	104.9	103.5	104.3	101.7
80°	79.3	78.1	77.0	79.3	77.0	78.1	79.3	79.3	77.5	79.3	77.5
82.5°	55.1	55.8	54.7	54.7	54.7	55.8	55.1	56.5	55.7	56.5	54.8
85°	25.4	24.9	23.6	23.6	23.6	24.9	25.4	25.4	27.2	26.0	26.0
87.5°	10.3	10.0	10.1	9.7	10.1	10.0	10.3	10.3	10.1	10.8	10.5
90°	28.0	28.4	29.0	29.4	29.0	28.4	28.0	27.6	26.7	25.4	24.3
92.5°	28.5	28.9	29.2	29.4	29.2	28.9	28.5	28.3	27.8	27.2	26.6
95°	47.6	47.3	47.2	46.9	47.2	47.3	47.6	47.9	47.3	46.2	44.9
97.5°	61.7	62.1	62.3	62.6	62.3	62.1	61.7	61.4	60.8	59.8	58.9
100°	71.6	72.1	72.6	73.1	72.6	72.1	71.6	71.2	69.9	67.9	66.1
102.5°	76.2	77.0	77.7	78.3	77.7	77.0	76.2	75.6	74.0	71.5	68.9
105°	80.0	81.0	81.9	82.9	81.9	81.0	80.0	79.0	77.2	74.5	71.9
107.5°	82.4	83.4	84.4	85.3	84.4	83.4	82.4	81.4	82.3	85.0	87.7
110°	83.3	84.3	85.2	86.1	85.2	84.3	83.3	82.3	93.9	118.2	142.4



TEST NUMBER: P331573-940

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	84.7	85.5	86.2	87.0	86.2	85.5	84.7	83.9	127.8	216.2	304.6
115°	141.8	124.4	106.9	89.4	106.9	124.4	141.8	159.3	224.1	336.4	448.5
117.5°	537.3	479.9	422.6	365.2	422.6	479.9	537.3	594.6	636.9	664.0	691.2
120°	763.6	730.8	698.1	665.4	698.1	730.8	763.6	796.3	811.2	808.2	805.4
122.5°	849.4	843.0	836.7	830.3	836.7	843.0	849.4	855.7	858.0	856.3	854.5
125°	930.4	931.2	931.9	932.6	931.9	931.2	930.4	929.7	928.5	926.8	925.1
127.5°	996.8	996.9	997.0	997.2	997.0	996.9	996.8	996.7	995.3	992.8	990.3
130°	1038.0	1037.9	1037.6	1037.3	1037.6	1037.9	1038.0	1038.3	1037.1	1034.5	1031.8
132.5°	1077.4	1077.1	1076.8	1076.7	1076.8	1077.1	1077.4	1077.5	1076.6	1074.2	1072.0
135°	1134.8	1134.3	1133.8	1133.4	1133.8	1134.3	1134.8	1135.2	1134.3	1131.8	1129.4
137.5°	1187.5	1186.7	1185.9	1185.0	1185.9	1186.7	1187.5	1188.3	1187.6	1185.2	1182.8
140°	1220.9	1219.8	1218.5	1217.4	1218.5	1219.8	1220.9	1222.2	1221.7	1219.5	1217.4
142.5°	1252.4	1251.2	1249.9	1248.8	1249.9	1251.2	1252.4	1253.6	1253.2	1251.2	1249.2
145°	1296.2	1295.0	1293.8	1292.6	1293.8	1295.0	1296.2	1297.4	1297.2	1295.5	1293.8
147.5°	1334.3	1333.2	1332.2	1331.2	1332.2	1333.2	1334.3	1335.2	1335.2	1333.9	1332.7
150°	1358.4	1357.2	1355.9	1354.8	1355.9	1357.2	1358.4	1359.6	1359.5	1358.1	1356.6
152.5°	1379.7	1378.0	1376.4	1374.8	1376.4	1378.0	1379.7	1381.3	1381.3	1379.8	1378.4
155°	1408.5	1406.7	1404.7	1402.8	1404.7	1406.7	1408.5	1410.5	1410.8	1409.3	1407.8
157.5°	1434.0	1432.1	1430.2	1428.3	1430.2	1432.1	1434.0	1435.8	1436.0	1434.3	1432.7
160°	1448.2	1446.5	1444.8	1443.1	1444.8	1446.5	1448.2	1449.9	1450.0	1448.6	1447.2
162.5°	1461.6	1459.5	1457.4	1455.4	1457.4	1459.5	1461.6	1463.7	1463.9	1462.2	1460.6
165°	1478.7	1477.0	1475.3	1473.6	1475.3	1477.0	1478.7	1480.4	1480.4	1478.7	1477.0
167.5°	1491.7	1489.6	1487.4	1485.2	1487.4	1489.6	1491.7	1494.0	1494.2	1492.5	1490.8
170°	1498.8	1496.6	1494.4	1492.2	1494.4	1496.6	1498.8	1500.9	1501.2	1499.5	1497.8
172.5°	1504.0	1501.8	1499.6	1497.4	1499.6	1501.8	1504.0	1506.2	1506.4	1504.7	1503.0
175°	1509.3	1506.9	1504.4	1502.0	1504.4	1506.9	1509.3	1511.7	1512.1	1510.4	1508.7
177.5°	1510.1	1508.3	1506.6	1504.9	1506.6	1508.3	1510.1	1511.8	1512.1	1510.6	1509.3
180°	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1479.4	1484.7	1492.7	1501.3	1506.5	1516.4	1519.2	1523.9	1528.2	1538.2	1548.5
5°	1394.0	1402.3	1421.8	1432.4	1447.2	1464.5	1475.7	1487.6	1500.6	1523.0	1543.7
7.5°	1302.4	1316.3	1340.5	1360.4	1381.4	1406.1	1423.9	1447.2	1466.7	1498.4	1528.7
10°	1241.4	1260.9	1282.8	1306.4	1336.1	1362.1	1387.0	1416.5	1440.2	1478.0	1513.6
12.5°	1186.4	1189.5	1220.8	1246.8	1287.3	1319.5	1348.1	1386.3	1409.4	1454.4	1491.7
15°	1090.5	1108.2	1136.7	1157.4	1205.2	1246.1	1286.4	1326.0	1352.6	1408.2	1457.3
17.5°	1009.7	1026.0	1055.1	1089.0	1123.5	1164.1	1216.2	1257.9	1294.1	1357.7	1415.8
20°	958.5	978.7	1008.3	1043.1	1073.4	1117.7	1162.7	1210.6	1249.6	1321.2	1389.3
22.5°	915.0	930.9	954.8	989.2	1022.2	1062.8	1112.1	1164.2	1205.1	1282.5	1351.4
25°	853.8	866.8	882.2	910.6	947.9	992.3	1030.7	1088.2	1147.9	1220.0	1303.5
27.5°	798.7	807.9	821.5	846.5	875.4	916.9	959.6	1014.1	1074.2	1152.5	1240.5
30°	765.1	771.0	784.6	805.3	833.7	866.2	909.5	961.5	1023.1	1102.3	1189.9
32.5°	735.8	741.2	750.0	769.8	794.4	822.2	861.1	913.2	971.9	1049.8	1146.8
35°	691.7	695.8	703.6	719.5	733.1	760.4	792.9	840.2	895.2	969.8	1070.4
37.5°	647.8	653.4	658.2	664.9	682.4	700.3	728.6	768.6	822.6	897.9	993.7
40°	618.9	623.7	630.7	633.7	647.9	663.9	687.0	723.6	778.1	846.7	940.2
42.5°	589.6	594.3	598.5	602.0	614.3	628.4	649.1	680.6	728.9	795.6	888.1
45°	549.7	550.3	554.4	560.9	566.9	576.9	591.7	618.9	656.2	718.9	802.9
47.5°	509.2	509.9	510.6	513.4	520.0	529.1	539.0	561.1	594.4	644.4	726.2
50°	482.2	481.1	482.2	484.6	488.7	496.4	507.7	523.6	550.9	597.6	672.8
52.5°	456.2	455.9	455.2	456.2	459.4	464.7	472.6	486.2	510.6	553.6	619.7
55°	416.5	413.6	414.2	411.8	417.1	418.3	424.3	435.5	456.8	486.3	548.5
57.5°	374.3	371.8	369.3	368.5	368.0	371.2	375.9	384.9	401.2	427.0	477.5
60°	347.3	344.4	340.8	339.7	339.7	341.4	343.8	350.3	365.7	388.8	430.2
62.5°	319.9	316.5	314.3	311.2	310.3	312.1	314.4	319.1	330.2	351.8	387.5
65°	277.5	273.4	270.4	269.8	268.7	266.9	268.0	272.8	281.6	298.8	327.2
67.5°	235.1	231.1	230.4	226.9	225.3	225.5	225.3	229.3	234.7	249.5	270.6
70°	207.1	204.1	203.0	200.0	198.9	197.6	196.4	200.0	205.4	217.8	236.1
72.5°	178.7	176.2	173.6	171.1	171.4	170.1	170.0	172.1	176.5	187.9	202.0
75°	137.9	138.5	135.5	132.5	132.0	130.7	130.7	132.5	134.3	143.2	154.4
77.5°	100.0	99.5	97.0	96.1	95.5	94.2	95.5	96.7	97.6	103.5	111.8
80°	76.3	76.3	73.4	73.4	72.8	71.0	72.8	71.6	73.9	79.9	85.8
82.5°	54.6	53.6	53.5	52.5	52.4	51.1	52.0	53.1	54.0	58.1	61.6
85°	26.7	26.7	26.0	25.4	26.0	25.4	26.0	26.7	27.2	29.0	31.9
87.5°	10.3	10.5	10.6	10.7	10.3	10.3	10.4	10.3	10.8	10.7	10.6
90°	23.0	21.8	19.9	17.9	16.0	14.1	11.8	9.1	6.4	3.7	1.1
92.5°	25.9	25.3	24.3	23.4	22.4	21.4	21.0	21.3	21.6	21.8	22.0
95°	43.8	42.5	40.8	39.1	37.5	35.8	38.9	46.9	54.9	62.9	70.9
97.5°	57.9	57.0	53.1	49.0	45.1	41.2	50.6	73.1	95.6	118.2	140.7
100°	64.1	62.2	58.1	53.9	49.8	45.7	60.3	93.5	126.6	159.9	193.1
102.5°	66.4	63.9	98.4	132.9	167.3	201.8	222.6	229.6	236.6	243.6	250.7
105°	69.2	66.5	132.7	198.9	265.1	331.3	360.7	353.4	346.2	338.9	331.6
107.5°	90.4	93.2	172.5	251.9	331.3	410.6	447.4	441.5	435.6	429.7	423.9
110°	166.7	190.9	260.9	331.0	401.1	471.1	503.5	498.5	493.4	488.3	483.2



TEST NUMBER: P331573-940

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	393.1	481.4	498.8	516.1	533.4	550.7	557.1	552.6	548.0	543.6	539.0
115°	560.8	673.1	667.0	660.9	654.9	648.8	643.7	639.5	635.4	631.3	627.2
117.5°	718.3	745.5	741.3	737.1	732.9	728.8	724.4	719.8	715.2	710.6	706.0
120°	802.5	799.5	795.2	790.9	786.5	782.1	778.1	774.5	770.8	767.2	763.6
122.5°	852.7	851.0	846.3	841.5	836.8	832.1	827.8	823.9	820.1	816.3	812.4
125°	923.5	921.8	917.1	912.5	907.9	903.3	899.4	896.3	893.1	889.9	886.8
127.5°	987.9	985.4	982.0	978.6	975.1	971.7	968.2	964.7	961.2	957.7	954.2
130°	1029.1	1026.4	1023.8	1021.1	1018.4	1015.7	1012.5	1008.6	1004.8	1000.9	997.0
132.5°	1069.7	1067.5	1064.8	1062.1	1059.4	1056.8	1053.8	1050.5	1047.2	1043.9	1040.6
135°	1127.0	1124.6	1122.4	1120.3	1118.0	1115.9	1112.9	1108.9	1105.1	1101.2	1097.3
137.5°	1180.4	1178.0	1175.5	1173.1	1170.6	1168.1	1165.6	1162.9	1160.1	1157.4	1154.7
140°	1215.1	1213.0	1210.3	1207.6	1205.0	1202.3	1200.0	1198.0	1196.1	1194.2	1192.2
142.5°	1247.2	1245.3	1242.2	1239.1	1236.1	1233.1	1230.7	1228.9	1227.2	1225.4	1223.7
145°	1292.1	1290.4	1286.3	1282.2	1278.1	1273.9	1272.0	1272.2	1272.5	1272.7	1272.9
147.5°	1331.4	1330.1	1326.1	1322.0	1317.9	1313.8	1312.2	1313.1	1314.1	1315.0	1315.9
150°	1355.1	1353.7	1349.8	1345.9	1342.0	1338.2	1337.0	1338.7	1340.5	1342.2	1343.9
152.5°	1377.0	1375.5	1371.8	1368.2	1364.4	1360.8	1359.9	1361.7	1363.6	1365.6	1367.4
155°	1406.4	1405.0	1402.0	1399.1	1396.2	1393.3	1392.9	1395.1	1397.3	1399.5	1401.7
157.5°	1431.0	1429.4	1427.4	1425.3	1423.3	1421.2	1421.1	1423.0	1424.8	1426.6	1428.5
160°	1445.6	1444.2	1442.8	1441.3	1439.8	1438.4	1438.4	1439.8	1441.3	1442.8	1444.2
162.5°	1458.9	1457.3	1456.1	1454.7	1453.5	1452.2	1452.3	1453.8	1455.3	1456.7	1458.2
165°	1475.3	1473.6	1472.9	1472.2	1471.5	1470.8	1471.1	1472.6	1474.0	1475.5	1476.9
167.5°	1489.1	1487.4	1486.7	1486.0	1485.4	1484.7	1485.1	1486.6	1488.0	1489.4	1490.9
170°	1496.1	1494.4	1493.9	1493.4	1492.9	1492.5	1492.9	1494.4	1495.8	1497.3	1498.8
172.5°	1501.3	1499.6	1499.1	1498.6	1498.2	1497.7	1498.2	1499.6	1501.1	1502.5	1504.0
175°	1507.0	1505.3	1504.9	1504.3	1503.9	1503.3	1504.0	1505.7	1507.3	1509.0	1510.7
177.5°	1508.0	1506.6	1506.4	1506.2	1506.0	1505.8	1506.4	1507.8	1509.1	1510.5	1511.8
180°	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4



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CATALOG NUMBER: S122DIW-S865D1240U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1547.7	1550.0	1557.6	1565.1	1573.7	1576.0	1579.8	1576.5	1575.6	1584.6	1591.2
5°	1552.0	1562.6	1583.4	1602.3	1618.3	1629.5	1641.4	1646.1	1654.9	1667.4	1682.7
7.5°	1547.0	1567.7	1600.3	1627.9	1658.0	1679.5	1696.5	1710.9	1728.5	1752.0	1777.7
10°	1541.3	1569.1	1608.8	1642.5	1679.2	1707.0	1730.1	1752.6	1778.6	1811.2	1844.9
12.5°	1531.0	1564.0	1613.6	1653.4	1700.5	1727.9	1759.0	1807.5	1835.4	1880.8	1928.2
15°	1510.0	1546.7	1615.9	1665.0	1718.2	1770.3	1827.7	1873.9	1920.0	1946.7	2013.6
17.5°	1478.9	1532.8	1609.4	1666.7	1734.4	1816.4	1880.9	1933.1	1986.5	2029.6	2063.2
20°	1453.8	1512.3	1599.9	1668.6	1749.0	1837.2	1911.2	1964.4	2010.5	2046.7	2067.3
22.5°	1422.1	1495.8	1581.0	1661.4	1764.2	1851.4	1929.1	1971.0	2009.6	2027.2	2035.2
25°	1372.2	1460.9	1557.4	1655.6	1771.6	1863.9	1934.8	1960.2	1971.5	1954.4	1925.9
27.5°	1318.3	1417.2	1530.0	1644.4	1767.0	1855.7	1906.7	1902.6	1883.6	1828.1	1783.7
30°	1278.1	1387.0	1508.2	1633.1	1756.1	1842.5	1872.1	1842.5	1799.3	1737.2	1673.9
32.5°	1235.9	1348.6	1485.1	1616.9	1736.3	1812.2	1818.6	1767.7	1700.8	1630.2	1551.3
35°	1172.2	1294.1	1441.4	1581.0	1694.0	1742.0	1713.5	1623.6	1544.4	1447.9	1340.2
37.5°	1100.1	1234.7	1382.4	1528.3	1630.7	1643.2	1572.7	1478.0	1366.2	1252.9	1126.1
40°	1046.2	1188.7	1340.8	1488.1	1578.6	1565.6	1475.7	1371.5	1238.4	1099.9	982.2
42.5°	997.8	1140.4	1295.3	1439.8	1512.3	1476.6	1371.5	1243.8	1100.6	970.3	862.5
45°	914.2	1060.9	1219.5	1359.1	1400.5	1336.1	1197.0	1055.0	914.2	805.3	720.1
47.5°	832.9	978.0	1135.1	1257.8	1272.5	1185.7	1033.8	887.7	766.6	678.0	617.9
50°	773.4	918.9	1074.5	1184.0	1179.2	1074.5	918.3	779.3	678.1	606.5	566.2
52.5°	719.9	857.4	1006.8	1106.3	1081.3	967.1	818.0	694.6	611.4	555.4	518.9
55°	636.7	763.8	905.9	985.8	939.6	813.0	687.0	587.5	526.0	484.0	455.6
57.5°	554.0	673.3	794.9	844.1	793.1	676.2	571.1	499.0	452.7	421.6	403.1
60°	502.9	607.1	715.3	758.0	697.1	592.9	510.1	445.6	408.2	382.8	366.2
62.5°	451.8	545.1	647.2	670.4	614.7	526.6	453.3	399.7	369.0	346.3	330.7
65°	382.3	458.5	536.1	551.4	500.0	431.9	374.0	339.0	311.8	295.2	282.9
67.5°	313.4	374.8	429.7	442.1	397.0	349.8	307.9	277.5	259.0	245.3	234.8
70°	272.8	321.3	366.2	376.3	340.2	298.2	266.3	242.0	225.4	213.6	203.6
72.5°	229.7	270.2	307.6	314.3	284.8	252.8	226.5	207.4	192.8	185.2	175.6
75°	175.8	199.4	228.4	230.2	210.6	191.1	171.0	158.5	150.9	141.4	136.7
77.5°	124.0	142.6	159.2	162.4	150.8	137.5	126.3	116.5	109.9	105.6	101.2
80°	94.7	109.5	116.5	120.7	112.4	103.0	96.5	90.0	85.8	82.8	79.9
82.5°	67.7	76.8	83.5	86.6	82.1	76.4	69.9	66.3	63.0	60.5	59.6
85°	34.3	38.4	42.6	43.8	42.6	40.2	36.6	36.6	34.9	34.3	34.3
87.5°	12.6	15.0	15.5	17.5	17.0	17.4	17.7	17.7	17.7	17.4	17.1
90°	3.7	6.4	9.1	11.8	14.1	16.0	17.9	19.9	21.8	23.0	24.3
92.5°	21.8	21.6	21.3	21.0	21.4	22.4	23.4	24.3	25.3	25.9	26.6
95°	62.9	54.9	46.9	38.9	35.8	37.5	39.1	40.8	42.5	43.8	44.9
97.5°	118.2	95.6	73.1	50.6	41.2	45.1	49.0	53.1	57.0	57.9	58.9
100°	159.9	126.6	93.5	60.3	45.7	49.8	53.9	58.1	62.2	64.1	66.1
102.5°	243.6	236.6	229.6	222.6	201.8	167.3	132.9	98.4	63.9	66.4	68.9
105°	338.9	346.2	353.4	360.7	331.3	265.1	198.9	132.7	66.5	69.2	71.9
107.5°	429.7	435.6	441.5	447.4	410.6	331.3	251.9	172.5	93.2	90.4	87.7
110°	488.3	493.4	498.5	503.5	471.1	401.1	331.0	260.9	190.9	166.7	142.4





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	543.6	548.0	552.6	557.1	550.7	533.4	516.1	498.8	481.4	393.1	304.6
115°	631.3	635.4	639.5	643.7	648.8	654.9	660.9	667.0	673.1	560.8	448.5
117.5°	710.6	715.2	719.8	724.4	728.8	732.9	737.1	741.3	745.5	718.3	691.2
120°	767.2	770.8	774.5	778.1	782.1	786.5	790.9	795.2	799.5	802.5	805.4
122.5°	816.3	820.1	823.9	827.8	832.1	836.8	841.5	846.3	851.0	852.7	854.5
125°	889.9	893.1	896.3	899.4	903.3	907.9	912.5	917.1	921.8	923.5	925.1
127.5°	957.7	961.2	964.7	968.2	971.7	975.1	978.6	982.0	985.4	987.9	990.3
130°	1000.9	1004.8	1008.6	1012.5	1015.7	1018.4	1021.1	1023.8	1026.4	1029.1	1031.8
132.5°	1043.9	1047.2	1050.5	1053.8	1056.8	1059.4	1062.1	1064.8	1067.5	1069.7	1072.0
135°	1101.2	1105.1	1108.9	1112.9	1115.9	1118.0	1120.3	1122.4	1124.6	1127.0	1129.4
137.5°	1157.4	1160.1	1162.9	1165.6	1168.1	1170.6	1173.1	1175.5	1178.0	1180.4	1182.8
140°	1194.2	1196.1	1198.0	1200.0	1202.3	1205.0	1207.6	1210.3	1213.0	1215.1	1217.4
142.5°	1225.4	1227.2	1228.9	1230.7	1233.1	1236.1	1239.1	1242.2	1245.3	1247.2	1249.2
145°	1272.7	1272.5	1272.2	1272.0	1273.9	1278.1	1282.2	1286.3	1290.4	1292.1	1293.8
147.5°	1315.0	1314.1	1313.1	1312.2	1313.8	1317.9	1322.0	1326.1	1330.1	1331.4	1332.7
150°	1342.2	1340.5	1338.7	1337.0	1338.2	1342.0	1345.9	1349.8	1353.7	1355.1	1356.6
152.5°	1365.6	1363.6	1361.7	1359.9	1360.8	1364.4	1368.2	1371.8	1375.5	1377.0	1378.4
155°	1399.5	1397.3	1395.1	1392.9	1393.3	1396.2	1399.1	1402.0	1405.0	1406.4	1407.8
157.5°	1426.6	1424.8	1423.0	1421.1	1421.2	1423.3	1425.3	1427.4	1429.4	1431.0	1432.7
160°	1442.8	1441.3	1439.8	1438.4	1438.4	1439.8	1441.3	1442.8	1444.2	1445.6	1447.2
162.5°	1456.7	1455.3	1453.8	1452.3	1452.2	1453.5	1454.7	1456.1	1457.3	1458.9	1460.6
165°	1475.5	1474.0	1472.6	1471.1	1470.8	1471.5	1472.2	1472.9	1473.6	1475.3	1477.0
167.5°	1489.4	1488.0	1486.6	1485.1	1484.7	1485.4	1486.0	1486.7	1487.4	1489.1	1490.8
170°	1497.3	1495.8	1494.4	1492.9	1492.5	1492.9	1493.4	1493.9	1494.4	1496.1	1497.8
172.5°	1502.5	1501.1	1499.6	1498.2	1497.7	1498.2	1498.6	1499.1	1499.6	1501.3	1503.0
175°	1509.0	1507.3	1505.7	1504.0	1503.3	1503.9	1504.3	1504.9	1505.3	1507.0	1508.7
177.5°	1510.5	1509.1	1507.8	1506.4	1505.8	1506.0	1506.2	1506.4	1506.6	1508.0	1509.3
180°	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5	1539.5
2.5°	1596.9	1603.5	1603.5	1604.5	1612.0	1611.1	1610.6
5°	1699.3	1709.4	1710.6	1721.3	1728.3	1726.0	1719.5
7.5°	1796.0	1814.7	1828.9	1836.8	1846.2	1852.0	1849.4
10°	1872.7	1899.9	1916.5	1927.7	1941.3	1951.4	1947.9
12.5°	1942.3	1974.7	1997.4	2016.7	2018.5	2031.4	2022.7
15°	2050.8	2085.1	2088.7	2102.8	2114.2	2112.9	2113.5
17.5°	2086.7	2097.7	2099.9	2100.2	2100.4	2096.2	2087.2
20°	2073.9	2069.7	2059.7	2052.0	2038.4	2036.6	2024.8
22.5°	2013.3	2000.2	1975.0	1958.3	1937.1	1931.5	1928.2
25°	1894.0	1865.0	1824.8	1786.3	1775.7	1755.0	1760.9
27.5°	1730.4	1685.2	1641.6	1610.3	1582.1	1551.0	1560.0
30°	1615.3	1564.4	1502.9	1455.5	1425.4	1395.8	1390.4
32.5°	1478.0	1403.5	1334.9	1293.2	1247.0	1228.2	1207.7
35°	1241.4	1168.6	1100.5	1042.0	1008.3	982.2	958.5
37.5°	1028.5	944.7	889.7	842.3	818.0	803.1	806.8
40°	896.4	823.0	782.8	746.7	724.2	713.5	716.0
42.5°	789.4	734.5	701.4	676.6	660.8	654.9	653.4
45°	668.0	637.2	610.0	595.8	588.2	581.7	577.5
47.5°	585.1	560.1	544.7	536.3	529.6	522.9	522.8
50°	535.5	518.9	508.3	499.4	494.1	489.4	493.5
52.5°	497.6	482.5	471.8	463.9	461.9	457.6	457.5
55°	441.4	429.5	421.9	414.7	411.3	408.8	405.9
57.5°	390.3	379.1	371.9	367.5	360.7	358.3	357.4
60°	353.8	344.9	337.9	331.9	329.0	324.2	324.2
62.5°	320.2	311.4	304.7	300.2	295.3	293.5	294.0
65°	271.6	264.5	258.0	253.2	252.1	248.5	249.7
67.5°	226.9	222.1	215.3	212.7	210.4	208.5	207.1
70°	197.1	192.3	188.8	185.2	183.4	183.4	183.4
72.5°	171.9	166.3	164.2	159.6	160.7	158.8	156.9
75°	133.1	129.6	127.8	126.0	123.1	123.1	123.1
77.5°	98.0	96.9	94.8	92.9	92.2	91.6	91.8
80°	75.7	75.2	73.9	73.9	72.8	72.2	71.0
82.5°	58.2	56.7	56.0	55.5	55.3	55.1	54.9
85°	33.2	31.9	31.9	32.5	31.4	31.4	31.9
87.5°	17.8	18.1	17.8	17.9	18.5	18.1	18.2
90°	25.4	26.7	27.6	28.0	28.4	29.0	29.4
92.5°	27.2	27.8	28.3	28.5	28.9	29.2	29.4
95°	46.2	47.3	47.9	47.6	47.3	47.2	46.9
97.5°	59.8	60.8	61.4	61.7	62.1	62.3	62.6
100°	67.9	69.9	71.2	71.6	72.1	72.6	73.1
102.5°	71.5	74.0	75.6	76.2	77.0	77.7	78.3
105°	74.5	77.2	79.0	80.0	81.0	81.9	82.9
107.5°	85.0	82.3	81.4	82.4	83.4	84.4	85.3
110°	118.2	93.9	82.3	83.3	84.3	85.2	86.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	216.2	127.8	83.9	84.7	85.5	86.2	87.0
115°	336.4	224.1	159.3	141.8	124.4	106.9	89.4
117.5°	664.0	636.9	594.6	537.3	479.9	422.6	365.2
120°	808.2	811.2	796.3	763.6	730.8	698.1	665.4
122.5°	856.3	858.0	855.7	849.4	843.0	836.7	830.3
125°	926.8	928.5	929.7	930.4	931.2	931.9	932.6
127.5°	992.8	995.3	996.7	996.8	996.9	997.0	997.2
130°	1034.5	1037.1	1038.3	1038.0	1037.9	1037.6	1037.3
132.5°	1074.2	1076.6	1077.5	1077.4	1077.1	1076.8	1076.7
135°	1131.8	1134.3	1135.2	1134.8	1134.3	1133.8	1133.4
137.5°	1185.2	1187.6	1188.3	1187.5	1186.7	1185.9	1185.0
140°	1219.5	1221.7	1222.2	1220.9	1219.8	1218.5	1217.4
142.5°	1251.2	1253.2	1253.6	1252.4	1251.2	1249.9	1248.8
145°	1295.5	1297.2	1297.4	1296.2	1295.0	1293.8	1292.6
147.5°	1333.9	1335.2	1335.2	1334.3	1333.2	1332.2	1331.2
150°	1358.1	1359.5	1359.6	1358.4	1357.2	1355.9	1354.8
152.5°	1379.8	1381.3	1381.3	1379.7	1378.0	1376.4	1374.8
155°	1409.3	1410.8	1410.5	1408.5	1406.7	1404.7	1402.8
157.5°	1434.3	1436.0	1435.8	1434.0	1432.1	1430.2	1428.3
160°	1448.6	1450.0	1449.9	1448.2	1446.5	1444.8	1443.1
162.5°	1462.2	1463.9	1463.7	1461.6	1459.5	1457.4	1455.4
165°	1478.7	1480.4	1480.4	1478.7	1477.0	1475.3	1473.6
167.5°	1492.5	1494.2	1494.0	1491.7	1489.6	1487.4	1485.2
170°	1499.5	1501.2	1500.9	1498.8	1496.6	1494.4	1492.2
172.5°	1504.7	1506.4	1506.2	1504.0	1501.8	1499.6	1497.4
175°	1510.4	1512.1	1511.7	1509.3	1506.9	1504.4	1502.0
177.5°	1510.6	1512.1	1511.8	1510.1	1508.3	1506.6	1504.9
180°	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4	1507.4

(END OF REPORT)