

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: P332853-830

Luminaire Tested: **S124DIW-S1195D1340U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332853-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124DIW-S1195D1340U830-4F0-1E-UDD-A  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1340 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10072.9 lumens  
Efficiency: N/A  
Efficacy: 132.2 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse

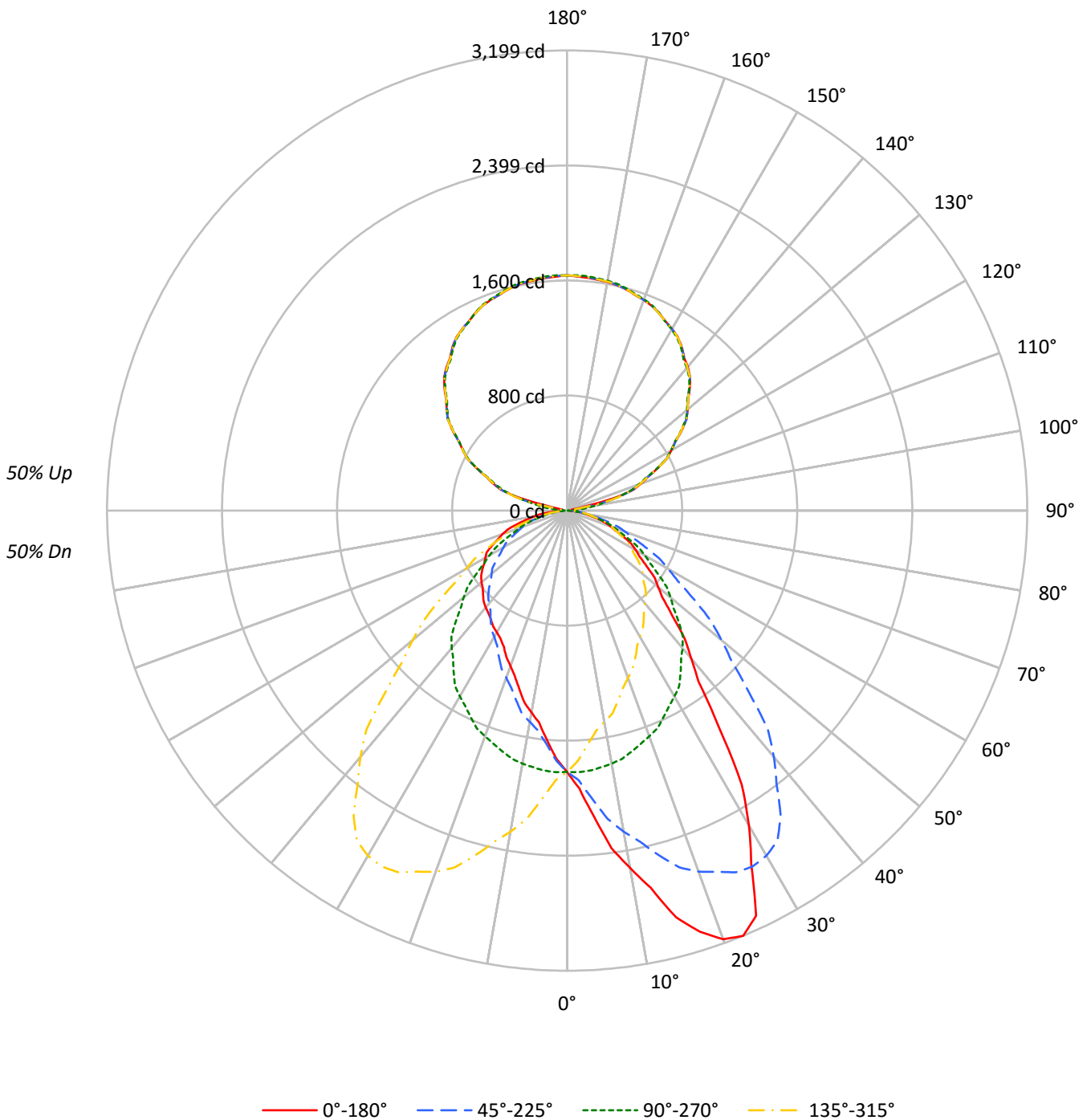
Input Watts (W): 76.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50				
1	98	94	90	86	90	87	83	80	73	71	69	61	59	58	50	49	48	42				
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40	36				
3	82	72	65	59	75	67	61	56	57	52	48	48	44	41	39	37	35	31				
4	75	64	56	50	69	60	53	47	51	46	41	43	39	36	35	32	30	26				
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23				
6	63	51	43	38	58	48	41	36	41	36	31	35	31	27	29	26	23	20				
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18				
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19	16				
9	51	39	31	26	47	36	29	25	31	26	22	27	23	19	22	19	17	15				
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	15	13				

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

	0°	90°	180°	270°
0°	14666	14666	14666	14666
5°	17271	14704	12977	14704
10°	20678	14638	11684	14638
15°	24466	14491	10730	14491
20°	27244	14339	9879	14339
25°	27684	14118	9291	14118
30°	23557	13904	9106	13904
35°	18111	13557	9107	13557
40°	14116	13149	9278	13149
45°	11771	12536	9434	12536
50°	10359	11786	9755	11786
55°	9491	10888	10148	10888
60°	8893	10085	10619	10085
65°	8281	9186	11012	9186
70°	7567	8297	11261	8297
75°	6759	7299	11126	7299
80°	5667	5983	10776	5983
85°	4177	4326	10319	4326



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.0	1.8
10°-20°	545.5	5.4
20°-30°	865.0	8.6
30°-40°	962.7	9.6
40°-50°	876.3	8.7
50°-60°	716.1	7.1
60°-70°	511.2	5.1
70°-80°	281.5	2.8
80°-90°	81.6	0.8
90°-100°	55.9	0.6
100°-110°	356.4	3.5
110°-120°	681.9	6.8
120°-130°	865.6	8.6
130°-140°	926.1	9.2
140°-150°	866.0	8.6
150°-160°	698.4	6.9
160°-170°	450.5	4.5
170°-180°	155.3	1.5
0°-30°	1587.5	15.8
0°-40°	2550.2	25.3
0°-60°	4142.6	41.1
0°-90°	5016.8	49.8
90°-120°	1094.2	10.9
90°-150°	3752.0	37.2
90°-180°	5056.0	50.2
0°-180°	10072.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1817	1817	1817	1817	1817	
5°	2131	1814	1601	1814	2131	217
15°	2927	1734	1284	1734	2927	827
25°	3108	1585	1043	1585	3108	1370
35°	1838	1376	924	1376	1838	1166
45°	1031	1098	826	1098	1031	812
55°	674	774	721	774	674	609
65°	434	481	576	481	434	429
75°	217	234	357	234	217	230
85°	45	47	111	47	45	56
90°	37	4	37	4	37	17
95°	35	67	35	67	35	28
105°	348	368	348	368	348	304
115°	692	687	692	687	692	685
125°	973	966	973	966	973	867
135°	1207	1198	1207	1198	1207	929
145°	1389	1382	1389	1382	1389	868
155°	1514	1515	1514	1515	1514	698
165°	1590	1598	1590	1598	1590	449
175°	1625	1635	1625	1635	1625	155
180°	1635	1635	1635	1635	1635	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1933.4	1932.8	1926.8	1925.6	1921.4	1916.0	1914.8	1905.2	1885.8	1876.8	1874.4
5°	2131.2	2146.3	2126.7	2122.9	2120.6	2095.8	2083.0	2067.9	2033.3	2013.1	1997.2
7.5°	2367.2	2369.0	2360.4	2353.5	2334.4	2312.7	2280.2	2245.6	2204.3	2161.4	2129.1
10°	2522.5	2528.6	2518.8	2517.2	2478.9	2454.8	2406.6	2366.0	2319.3	2267.4	2220.0
12.5°	2686.2	2677.9	2672.9	2640.6	2633.6	2589.6	2533.6	2491.8	2419.9	2360.1	2297.1
15°	2927.3	2910.9	2900.3	2855.9	2834.0	2773.1	2713.7	2667.8	2573.7	2484.2	2416.4
17.5°	3068.8	3085.4	3061.0	3042.8	2986.4	2943.7	2882.9	2786.5	2712.9	2601.7	2516.2
20°	3171.2	3172.7	3159.1	3140.4	3096.0	3041.8	2975.5	2870.1	2782.1	2671.5	2554.1
22.5°	3198.9	3199.2	3193.4	3175.9	3142.2	3098.3	3031.5	2943.7	2837.0	2716.7	2599.2
25°	3107.9	3104.9	3111.7	3131.3	3118.5	3104.9	3066.6	3001.1	2901.8	2774.6	2648.2
27.5°	2770.2	2791.0	2829.2	2877.4	2923.8	2959.1	2969.1	2955.6	2894.1	2789.5	2657.0
30°	2527.1	2552.6	2581.2	2629.3	2722.7	2776.1	2834.8	2879.2	2854.4	2770.9	2647.4
32.5°	2259.7	2266.1	2308.5	2363.2	2448.7	2551.6	2644.6	2734.7	2764.7	2720.8	2617.9
35°	1837.7	1848.2	1894.1	1948.3	2053.0	2178.6	2318.6	2443.4	2546.6	2587.9	2535.3
37.5°	1499.7	1529.9	1562.3	1620.5	1712.6	1825.8	1971.2	2132.9	2286.5	2389.4	2406.9
40°	1339.5	1358.3	1381.7	1426.1	1504.3	1615.7	1740.6	1925.7	2089.1	2236.6	2284.7
42.5°	1213.1	1224.1	1238.4	1278.6	1338.1	1449.0	1563.0	1725.9	1889.8	2066.1	2146.8
45°	1031.0	1042.3	1066.3	1089.7	1134.8	1211.5	1317.7	1451.6	1616.5	1786.5	1935.5
47.5°	899.5	906.6	921.0	945.9	984.3	1034.9	1121.2	1233.1	1385.9	1551.0	1709.8
50°	824.8	830.8	842.1	864.7	894.0	939.1	1009.9	1114.5	1234.2	1400.4	1556.2
52.5°	765.8	768.2	776.5	791.8	815.1	853.1	911.2	997.7	1108.9	1257.2	1412.4
55°	674.3	677.3	684.9	696.1	716.4	740.5	784.9	849.6	946.7	1075.3	1210.0
57.5°	599.0	601.2	607.5	611.8	628.5	648.1	682.2	728.5	802.0	911.2	1031.4
60°	550.8	549.3	556.9	560.6	571.9	588.5	614.8	659.2	723.2	811.2	921.9
62.5°	503.9	501.8	508.1	513.1	519.5	533.7	555.3	590.0	641.9	721.5	817.1
65°	433.5	430.5	434.2	440.3	446.3	453.7	469.6	500.4	541.9	599.0	672.0
67.5°	362.7	365.9	366.5	369.5	373.0	383.2	394.0	415.8	445.1	490.8	552.7
70°	320.6	321.3	324.3	324.3	326.6	335.6	344.7	357.4	386.1	428.2	478.6
72.5°	278.4	281.6	280.4	282.8	284.5	290.5	297.1	309.2	333.7	365.0	407.6
75°	216.7	219.0	219.0	219.7	222.0	224.2	229.5	238.6	255.9	279.2	308.5
77.5°	158.1	158.3	159.4	162.1	162.1	165.7	169.7	176.8	185.4	201.4	219.3
80°	121.9	123.4	122.6	124.1	124.1	127.1	128.7	137.7	141.5	152.0	166.3
82.5°	89.4	90.9	90.8	92.8	94.1	94.6	96.8	100.4	104.2	113.5	119.3
85°	45.1	46.7	45.1	46.7	48.9	49.7	51.9	52.7	55.7	58.0	63.2
87.5°	20.5	22.2	22.1	22.6	23.8	24.1	24.4	23.5	25.5	25.8	27.8
90°	36.7	36.1	35.6	35.1	34.5	33.5	31.8	30.2	28.6	26.9	24.7
92.5°	33.7	33.6	33.6	33.5	33.3	32.4	30.8	29.2	27.5	25.9	23.8
95°	35.4	35.2	34.9	34.6	34.4	33.5	31.8	30.2	28.6	26.9	26.6
97.5°	34.2	33.9	33.6	33.5	33.2	32.9	32.8	32.6	32.4	32.2	62.6
100°	34.2	33.9	33.6	33.5	33.2	35.3	40.0	44.6	49.2	53.8	91.2
102.5°	35.3	35.2	35.1	35.1	35.0	59.9	109.7	159.6	209.3	259.2	264.1
105°	348.5	358.2	368.0	377.8	387.6	391.2	388.8	386.3	383.9	381.4	380.0
107.5°	485.6	484.6	483.5	482.5	481.5	480.3	479.2	478.0	476.7	475.6	473.7
110°	545.3	544.4	543.7	542.8	542.0	541.3	540.7	540.3	539.7	539.1	537.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	604.9	603.9	602.9	601.8	600.8	600.3	600.4	600.5	600.7	600.8	600.0
115°	691.9	691.9	691.9	691.9	691.9	691.6	691.2	690.6	690.0	689.5	689.8
117.5°	780.4	780.6	780.7	780.8	780.9	781.0	781.1	781.2	781.4	781.5	780.8
120°	836.2	836.8	837.3	837.8	838.4	838.4	837.8	837.3	836.8	836.2	836.5
122.5°	891.0	891.6	892.0	892.6	893.2	893.2	893.0	892.6	892.3	891.9	891.6
125°	973.2	972.9	972.6	972.3	972.0	971.5	970.7	969.9	969.0	968.3	968.7
127.5°	1045.3	1045.5	1045.7	1045.9	1046.1	1046.3	1046.5	1046.7	1046.8	1047.0	1045.8
130°	1094.2	1094.2	1094.2	1094.2	1094.2	1094.0	1093.7	1093.4	1093.3	1093.0	1092.1
132.5°	1139.2	1139.3	1139.6	1139.8	1140.0	1140.0	1139.7	1139.4	1139.2	1138.9	1137.8
135°	1206.6	1206.1	1205.5	1205.0	1204.5	1203.9	1203.3	1202.9	1202.3	1201.7	1200.7
137.5°	1264.3	1264.5	1264.7	1264.8	1265.0	1264.8	1264.1	1263.6	1263.0	1262.3	1261.2
140°	1304.5	1304.2	1303.9	1303.6	1303.3	1302.8	1302.0	1301.2	1300.3	1299.6	1299.0
142.5°	1337.7	1337.7	1337.6	1337.6	1337.5	1337.2	1336.5	1336.0	1335.4	1334.7	1334.5
145°	1388.8	1388.3	1387.7	1387.1	1386.7	1386.2	1385.9	1385.6	1385.4	1385.2	1385.2
147.5°	1431.1	1430.8	1430.6	1430.3	1430.0	1429.7	1429.6	1429.6	1429.1	1428.9	1429.2
150°	1458.5	1458.2	1457.9	1457.6	1457.4	1457.3	1457.3	1457.3	1457.3	1457.3	1457.5
152.5°	1482.0	1482.1	1482.2	1482.4	1482.6	1482.4	1482.1	1481.6	1481.2	1480.7	1481.2
155°	1513.5	1514.3	1515.1	1516.0	1516.7	1516.6	1515.5	1514.5	1513.3	1512.3	1513.1
157.5°	1539.9	1541.3	1542.8	1544.2	1545.6	1545.6	1544.2	1542.8	1541.3	1539.9	1540.9
160°	1557.6	1559.2	1560.8	1562.4	1564.1	1564.1	1562.4	1560.8	1559.2	1557.6	1557.7
162.5°	1571.2	1573.0	1574.9	1576.8	1578.6	1578.7	1577.1	1575.5	1573.8	1572.2	1572.4
165°	1590.5	1593.0	1595.4	1597.9	1600.2	1600.4	1598.3	1596.1	1593.9	1591.8	1591.8
167.5°	1605.0	1607.7	1610.3	1613.1	1615.8	1616.0	1613.5	1611.2	1608.8	1606.4	1606.6
170°	1613.7	1616.5	1619.2	1621.9	1624.6	1624.8	1622.7	1620.5	1618.3	1616.2	1615.9
172.5°	1618.6	1621.6	1624.5	1627.4	1630.4	1630.8	1628.6	1626.4	1624.2	1622.0	1621.7
175°	1624.8	1628.0	1631.3	1634.6	1637.8	1638.2	1635.8	1633.3	1630.9	1628.4	1628.1
177.5°	1628.6	1631.3	1633.9	1636.4	1639.1	1639.6	1637.8	1636.1	1634.3	1632.6	1632.1
180°	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1875.0	1866.6	1860.6	1855.8	1842.5	1834.7	1828.6	1820.2	1810.6	1800.4	1787.7
5°	1981.4	1955.9	1937.0	1908.5	1881.3	1858.8	1835.4	1814.4	1788.8	1761.0	1740.6
7.5°	2093.3	2055.2	2006.4	1964.2	1916.6	1875.2	1838.1	1800.3	1760.8	1722.6	1687.5
10°	2164.3	2115.3	2061.2	1997.2	1937.0	1883.6	1833.9	1785.7	1739.1	1692.4	1652.6
12.5°	2240.8	2179.8	2099.7	2025.0	1957.5	1886.0	1826.1	1767.1	1710.8	1661.8	1615.2
15°	2343.4	2255.3	2162.8	2062.7	1973.9	1890.4	1808.4	1733.8	1670.7	1605.9	1560.8
17.5°	2406.5	2297.5	2191.7	2087.1	1979.6	1874.2	1785.7	1699.9	1620.7	1556.4	1499.5
20°	2448.0	2339.7	2207.9	2103.4	1975.4	1867.1	1764.7	1669.1	1586.4	1517.9	1459.2
22.5°	2484.2	2358.9	2227.2	2089.5	1962.2	1847.2	1735.2	1639.0	1554.4	1482.3	1426.1
25°	2503.7	2359.9	2217.0	2080.0	1935.5	1799.3	1697.7	1584.9	1494.5	1418.5	1358.3
27.5°	2505.8	2352.1	2190.4	2038.2	1889.0	1762.2	1633.9	1533.0	1439.3	1359.0	1301.2
30°	2499.2	2338.9	2165.0	2000.3	1850.5	1712.8	1601.4	1491.6	1396.0	1316.2	1255.9
32.5°	2478.1	2311.2	2132.5	1958.1	1802.9	1668.2	1553.2	1448.8	1355.7	1277.1	1213.8
35°	2417.2	2252.3	2061.9	1880.6	1721.8	1585.6	1481.8	1375.6	1282.3	1207.9	1146.9
37.5°	2321.9	2172.8	1979.3	1791.7	1635.7	1498.9	1396.0	1300.0	1216.0	1140.3	1077.8
40°	2238.8	2107.9	1913.7	1730.8	1562.3	1432.1	1335.8	1247.7	1164.1	1092.7	1033.2
42.5°	2143.1	2029.0	1849.9	1656.1	1493.6	1362.8	1268.9	1189.9	1111.2	1045.1	985.7
45°	1972.4	1897.1	1728.6	1549.4	1380.2	1256.7	1167.2	1098.0	1031.7	967.0	917.4
47.5°	1776.1	1738.8	1596.9	1426.8	1266.0	1144.4	1066.8	1002.9	944.7	889.9	846.1
50°	1644.3	1626.3	1503.5	1339.5	1186.0	1071.6	993.3	938.4	888.7	840.6	799.2
52.5°	1514.3	1513.6	1403.1	1252.8	1110.8	1000.6	922.9	871.6	828.6	789.4	752.2
55°	1315.4	1336.5	1250.0	1116.0	988.8	889.5	819.5	773.6	743.5	711.1	683.3
57.5°	1132.8	1167.8	1096.5	978.5	872.3	780.8	719.9	685.4	653.4	633.8	613.5
60°	1013.7	1046.8	991.1	891.7	791.6	713.4	655.4	624.6	596.7	583.2	568.9
62.5°	907.7	937.2	896.0	803.9	717.0	641.8	592.9	563.2	544.4	529.6	520.2
65°	756.3	781.2	745.7	678.8	604.3	544.1	504.2	480.9	462.8	456.8	446.3
67.5°	611.3	634.0	614.8	557.9	498.1	452.6	421.4	399.0	388.3	383.0	375.5
70°	525.3	547.8	527.5	477.9	432.0	393.6	364.2	351.5	340.2	337.9	327.3
72.5°	452.4	467.8	447.4	408.6	369.4	337.0	314.2	300.9	295.0	291.0	285.2
75°	339.4	353.0	339.4	309.2	281.4	258.9	239.3	234.0	227.2	225.0	221.2
77.5°	240.3	251.9	241.6	222.7	202.0	184.5	174.0	167.2	165.7	161.8	163.6
80°	183.6	191.1	181.3	168.5	152.0	140.0	132.4	128.7	124.1	122.6	125.6
82.5°	131.9	135.2	130.2	121.6	109.2	101.4	96.3	92.0	91.0	91.3	91.3
85°	68.5	67.8	67.0	59.5	55.7	50.4	47.4	46.7	45.9	47.4	48.9
87.5°	27.4	27.5	26.5	23.6	21.2	18.8	17.6	16.4	17.6	18.8	20.0
90°	22.5	20.4	18.2	15.6	12.6	9.6	6.7	3.7	6.7	9.6	12.6
92.5°	21.6	19.4	17.2	16.0	15.9	15.7	15.6	15.4	15.6	15.7	15.9
95°	26.4	26.1	25.8	30.3	39.5	48.7	58.0	67.2	58.0	48.7	39.5
97.5°	92.9	123.2	153.5	165.8	160.0	154.3	148.5	142.8	148.5	154.3	160.0
100°	128.8	166.3	203.8	220.1	215.2	210.3	205.4	200.5	205.4	210.3	215.2
102.5°	269.0	273.8	278.7	279.4	275.8	272.2	268.6	265.0	268.6	272.2	275.8
105°	378.7	377.4	376.0	374.5	372.9	371.3	369.6	368.0	369.6	371.3	372.9
107.5°	471.8	470.0	468.2	466.8	466.0	465.2	464.4	463.5	464.4	465.2	466.0
110°	535.8	534.2	532.6	531.4	530.6	529.8	529.0	528.1	529.0	529.8	530.6





TEST NUMBER: P332853-830

CATALOG NUMBER: S124DIW-S1195D1340U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	599.3	598.5	597.7	596.6	595.1	593.7	592.2	590.7	592.2	593.7	595.1
115°	690.0	690.3	690.6	690.3	689.5	688.7	687.9	687.0	687.9	688.7	689.5
117.5°	780.2	779.7	779.0	778.2	777.1	776.0	775.0	773.8	775.0	776.0	777.1
120°	836.8	837.1	837.3	836.9	835.8	834.7	833.6	832.5	833.6	834.7	835.8
122.5°	891.2	890.8	890.4	889.9	889.3	888.6	888.0	887.3	888.0	888.6	889.3
125°	969.3	969.9	970.4	970.2	969.0	968.0	966.9	965.8	966.9	968.0	969.0
127.5°	1044.4	1043.2	1042.0	1041.2	1040.9	1040.7	1040.4	1040.1	1040.4	1040.7	1040.9
130°	1091.3	1090.5	1089.7	1089.1	1088.8	1088.6	1088.4	1088.1	1088.4	1088.6	1088.8
132.5°	1136.8	1135.9	1134.8	1134.0	1133.5	1133.0	1132.6	1132.1	1132.6	1133.0	1133.5
135°	1199.6	1198.4	1197.4	1197.0	1197.3	1197.5	1197.8	1198.1	1197.8	1197.5	1197.3
137.5°	1260.0	1258.8	1257.6	1257.0	1256.9	1256.7	1256.6	1256.5	1256.6	1256.7	1256.9
140°	1298.4	1297.9	1297.4	1296.8	1296.3	1295.7	1295.2	1294.7	1295.2	1295.7	1296.3
142.5°	1334.1	1333.8	1333.4	1332.8	1331.8	1330.9	1329.8	1328.9	1329.8	1330.9	1331.8
145°	1385.2	1385.2	1385.2	1384.7	1383.9	1383.1	1382.2	1381.5	1382.2	1383.1	1383.9
147.5°	1429.5	1429.7	1430.0	1429.4	1427.9	1426.3	1424.7	1423.2	1424.7	1426.3	1427.9
150°	1457.8	1458.1	1458.3	1457.9	1456.9	1455.8	1454.7	1453.6	1454.7	1455.8	1456.9
152.5°	1481.7	1482.2	1482.7	1482.5	1481.6	1480.7	1479.9	1479.0	1479.9	1480.7	1481.6
155°	1513.9	1514.8	1515.5	1515.8	1515.5	1515.2	1514.9	1514.8	1514.9	1515.2	1515.5
157.5°	1541.7	1542.7	1543.6	1544.2	1544.3	1544.5	1544.6	1544.8	1544.6	1544.5	1544.3
160°	1558.0	1558.3	1558.6	1559.2	1559.9	1560.8	1561.6	1562.4	1561.6	1560.8	1559.9
162.5°	1572.7	1573.0	1573.3	1574.0	1575.0	1576.0	1577.0	1578.0	1577.0	1576.0	1575.0
165°	1591.8	1591.8	1591.8	1592.4	1593.7	1595.2	1596.5	1597.9	1596.5	1595.2	1593.7
167.5°	1606.8	1606.9	1607.0	1607.9	1609.3	1610.7	1612.1	1613.5	1612.1	1610.7	1609.3
170°	1615.6	1615.3	1615.1	1615.8	1617.4	1619.0	1620.7	1622.3	1620.7	1619.0	1617.4
172.5°	1621.6	1621.3	1621.0	1621.6	1623.2	1624.9	1626.5	1628.1	1626.5	1624.9	1623.2
175°	1627.9	1627.6	1627.3	1628.0	1629.7	1631.3	1632.9	1634.6	1632.9	1631.3	1629.7
177.5°	1631.7	1631.3	1630.8	1631.4	1632.9	1634.4	1636.0	1637.5	1636.0	1634.4	1632.9
180°	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6



TEST NUMBER: P332853-830

CATALOG NUMBER: S124DIW-S1195D1340U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1781.7	1776.3	1768.5	1757.7	1748.6	1739.0	1736.5	1733.0	1740.1	1734.2	1732.3
5°	1723.3	1707.5	1687.2	1663.9	1650.3	1630.8	1627.0	1619.5	1611.9	1611.2	1603.6
7.5°	1661.4	1638.2	1611.7	1587.8	1565.8	1544.5	1530.5	1527.5	1516.4	1509.9	1502.3
10°	1621.7	1593.1	1562.3	1539.7	1514.1	1491.6	1475.7	1466.7	1459.2	1450.9	1443.4
12.5°	1574.8	1544.4	1518.9	1494.5	1464.1	1447.0	1421.0	1405.3	1403.8	1403.9	1384.4
15°	1520.1	1490.1	1450.9	1416.3	1399.7	1366.6	1352.3	1334.3	1323.0	1311.6	1302.7
17.5°	1457.6	1420.2	1389.6	1349.9	1318.3	1291.9	1273.2	1262.3	1245.3	1229.4	1217.8
20°	1418.5	1378.7	1346.3	1304.1	1269.5	1237.2	1221.3	1206.4	1193.5	1180.0	1167.2
22.5°	1378.8	1337.1	1297.5	1256.6	1224.4	1190.2	1175.0	1154.5	1142.4	1134.8	1122.0
25°	1316.2	1271.0	1225.9	1186.8	1153.7	1123.5	1103.2	1087.4	1073.8	1067.8	1059.6
27.5°	1248.1	1203.3	1159.7	1115.2	1077.6	1055.8	1039.5	1027.7	1019.8	1011.8	1008.1
30°	1204.9	1158.2	1111.5	1070.1	1035.5	1013.7	998.6	990.3	984.3	980.5	976.8
32.5°	1160.8	1114.8	1065.7	1027.9	996.9	977.5	966.1	957.8	954.8	953.5	952.2
35°	1090.4	1043.8	998.6	964.8	935.4	927.8	918.1	913.6	912.1	917.4	919.6
37.5°	1022.3	978.9	937.4	904.6	885.3	874.3	871.0	871.1	876.6	881.2	886.6
40°	978.3	936.1	897.0	868.5	850.4	843.6	842.1	845.8	851.9	857.1	863.2
42.5°	935.6	894.0	858.5	831.7	819.1	812.8	813.8	817.6	826.0	832.5	841.5
45°	869.2	834.5	799.9	778.2	767.6	769.1	769.1	775.9	784.1	793.9	803.7
47.5°	806.7	771.8	743.4	725.0	719.5	718.2	722.5	731.3	743.2	755.3	768.9
50°	764.6	731.5	706.6	690.0	684.1	686.4	692.3	700.6	714.9	730.0	744.2
52.5°	721.8	691.7	668.7	653.4	649.1	653.2	659.2	672.3	684.9	701.1	718.4
55°	655.4	629.9	611.8	600.5	599.0	601.2	608.0	622.4	640.4	660.7	677.3
57.5°	589.4	568.0	551.5	543.7	544.4	546.5	557.6	574.7	593.9	615.6	637.0
60°	544.8	525.3	511.7	505.7	506.4	511.0	524.5	540.4	564.4	585.5	608.0
62.5°	502.7	485.5	472.6	467.2	466.1	476.1	489.0	505.4	529.5	553.0	577.3
65°	435.0	421.4	410.9	407.8	410.1	417.6	434.2	456.0	476.4	501.1	526.8
67.5°	368.7	357.6	350.3	351.8	354.5	365.6	379.5	398.2	421.3	447.0	472.3
70°	326.6	316.0	310.0	310.8	315.3	328.9	340.9	359.7	384.6	410.9	432.0
72.5°	283.2	276.4	270.9	274.1	278.6	287.9	302.9	321.8	343.7	368.2	390.4
75°	217.4	217.4	214.4	216.7	223.5	232.5	243.8	263.3	285.2	304.8	322.8
77.5°	161.4	159.7	161.6	164.4	168.2	179.0	191.9	205.9	222.3	241.9	256.7
80°	123.4	124.1	127.9	132.4	133.9	142.2	155.8	168.5	181.3	197.9	212.3
82.5°	92.7	93.5	95.4	101.1	102.6	111.5	120.3	133.1	144.7	155.8	167.7
85°	50.4	50.4	54.2	56.5	60.2	66.3	71.4	79.0	89.5	97.1	108.4
87.5°	22.4	22.9	25.7	27.4	29.6	33.1	34.6	41.6	44.3	47.6	53.3
90°	15.6	18.2	20.4	22.5	24.7	26.9	28.6	30.2	31.8	33.5	34.5
92.5°	16.0	17.2	19.4	21.6	23.8	25.9	27.5	29.2	30.8	32.4	33.3
95°	30.3	25.8	26.1	26.4	26.6	26.9	28.6	30.2	31.8	33.5	34.4
97.5°	165.8	153.5	123.2	92.9	62.6	32.2	32.4	32.6	32.8	32.9	33.2
100°	220.1	203.8	166.3	128.8	91.2	53.8	49.2	44.6	40.0	35.3	33.2
102.5°	279.4	278.7	273.8	269.0	264.1	259.2	209.3	159.6	109.7	59.9	35.0
105°	374.5	376.0	377.4	378.7	380.0	381.4	383.9	386.3	388.8	391.2	387.6
107.5°	466.8	468.2	470.0	471.8	473.7	475.6	476.7	478.0	479.2	480.3	481.5
110°	531.4	532.6	534.2	535.8	537.5	539.1	539.7	540.3	540.7	541.3	542.0



TEST NUMBER: P332853-830

CATALOG NUMBER: S124DIW-S1195D1340U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	596.6	597.7	598.5	599.3	600.0	600.8	600.7	600.5	600.4	600.3	600.8
115°	690.3	690.6	690.3	690.0	689.8	689.5	690.0	690.6	691.2	691.6	691.9
117.5°	778.2	779.0	779.7	780.2	780.8	781.5	781.4	781.2	781.1	781.0	780.9
120°	836.9	837.3	837.1	836.8	836.5	836.2	836.8	837.3	837.8	838.4	838.4
122.5°	889.9	890.4	890.8	891.2	891.6	891.9	892.3	892.6	893.0	893.2	893.2
125°	970.2	970.4	969.9	969.3	968.7	968.3	969.0	969.9	970.7	971.5	972.0
127.5°	1041.2	1042.0	1043.2	1044.4	1045.8	1047.0	1046.8	1046.7	1046.5	1046.3	1046.1
130°	1089.1	1089.7	1090.5	1091.3	1092.1	1093.0	1093.3	1093.4	1093.7	1094.0	1094.2
132.5°	1134.0	1134.8	1135.9	1136.8	1137.8	1138.9	1139.2	1139.4	1139.7	1140.0	1140.0
135°	1197.0	1197.4	1198.4	1199.6	1200.7	1201.7	1202.3	1202.9	1203.3	1203.9	1204.5
137.5°	1257.0	1257.6	1258.8	1260.0	1261.2	1262.3	1263.0	1263.6	1264.1	1264.8	1265.0
140°	1296.8	1297.4	1297.9	1298.4	1299.0	1299.6	1300.3	1301.2	1302.0	1302.8	1303.3
142.5°	1332.8	1333.4	1333.8	1334.1	1334.5	1334.7	1335.4	1336.0	1336.5	1337.2	1337.5
145°	1384.7	1385.2	1385.2	1385.2	1385.2	1385.2	1385.4	1385.6	1385.9	1386.2	1386.7
147.5°	1429.4	1430.0	1429.7	1429.5	1429.2	1428.9	1429.1	1429.4	1429.6	1429.7	1430.0
150°	1457.9	1458.3	1458.1	1457.8	1457.5	1457.3	1457.3	1457.3	1457.3	1457.3	1457.4
152.5°	1482.5	1482.7	1482.2	1481.7	1481.2	1480.7	1481.2	1481.6	1482.1	1482.4	1482.6
155°	1515.8	1515.5	1514.8	1513.9	1513.1	1512.3	1513.3	1514.5	1515.5	1516.6	1516.7
157.5°	1544.2	1543.6	1542.7	1541.7	1540.9	1539.9	1541.3	1542.8	1544.2	1545.6	1545.6
160°	1559.2	1558.6	1558.3	1558.0	1557.7	1557.6	1559.2	1560.8	1562.4	1564.1	1564.1
162.5°	1574.0	1573.3	1573.0	1572.7	1572.4	1572.2	1573.8	1575.5	1577.1	1578.7	1578.6
165°	1592.4	1591.8	1591.8	1591.8	1591.8	1591.8	1593.9	1596.1	1598.3	1600.4	1600.2
167.5°	1607.9	1607.0	1606.9	1606.8	1606.6	1606.4	1608.8	1611.2	1613.5	1616.0	1615.8
170°	1615.8	1615.1	1615.3	1615.6	1615.9	1616.2	1618.3	1620.5	1622.7	1624.8	1624.6
172.5°	1621.6	1621.0	1621.3	1621.6	1621.7	1622.0	1624.2	1626.4	1628.6	1630.8	1630.4
175°	1628.0	1627.3	1627.6	1627.9	1628.1	1628.4	1630.9	1633.3	1635.8	1638.2	1637.8
177.5°	1631.4	1630.8	1631.3	1631.7	1632.1	1632.6	1634.3	1636.1	1637.8	1639.6	1639.1
180°	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6



TEST NUMBER: P332853-830

CATALOG NUMBER: S124DIW-S1195D1340U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1731.2	1729.9	1725.7	1725.1	1725.7	1729.9	1731.2	1732.3	1734.2	1740.1	1733.0
5°	1599.1	1595.3	1593.1	1601.4	1593.1	1595.3	1599.1	1603.6	1611.2	1611.9	1619.5
7.5°	1499.7	1496.7	1490.1	1487.9	1490.1	1496.7	1499.7	1502.3	1509.9	1516.4	1527.5
10°	1435.9	1432.9	1426.8	1425.3	1426.8	1432.9	1435.9	1443.4	1450.9	1459.2	1466.7
12.5°	1374.4	1368.4	1367.3	1368.8	1367.3	1368.4	1374.4	1384.4	1403.9	1403.8	1405.3
15°	1292.9	1289.9	1281.6	1283.8	1281.6	1289.9	1292.9	1302.7	1311.6	1323.0	1334.3
17.5°	1212.5	1208.9	1198.8	1207.7	1198.8	1208.9	1212.5	1217.8	1229.4	1245.3	1262.3
20°	1161.9	1155.9	1150.7	1149.9	1150.7	1155.9	1161.9	1167.2	1180.0	1193.5	1206.4
22.5°	1113.7	1108.3	1107.9	1103.0	1107.9	1108.3	1113.7	1122.0	1134.8	1142.4	1154.5
25°	1053.6	1048.3	1046.8	1043.0	1046.8	1048.3	1053.6	1059.6	1067.8	1073.8	1087.4
27.5°	1007.4	1004.8	1002.1	1003.2	1002.1	1004.8	1007.4	1008.1	1011.8	1019.8	1027.7
30°	979.0	978.3	976.8	976.8	976.8	978.3	979.0	976.8	980.5	984.3	990.3
32.5°	955.5	955.5	956.3	956.3	956.3	955.5	955.5	952.2	953.5	954.8	957.8
35°	922.7	924.8	926.3	924.1	926.3	924.8	922.7	919.6	917.4	912.1	913.6
37.5°	892.8	895.0	897.2	899.8	897.2	895.0	892.8	886.6	881.2	876.6	871.1
40°	870.0	875.2	876.7	880.4	876.7	875.2	870.0	863.2	857.1	851.9	845.8
42.5°	848.3	854.1	858.0	858.8	858.0	854.1	848.3	841.5	832.5	826.0	817.6
45°	815.0	821.0	826.3	826.3	826.3	821.0	815.0	803.7	793.9	784.1	775.9
47.5°	780.5	789.3	794.6	795.9	794.6	789.3	780.5	768.9	755.3	743.2	731.3
50°	757.1	767.6	772.9	776.7	772.9	767.6	757.1	744.2	730.0	714.9	700.6
52.5°	734.1	744.7	751.8	753.8	751.8	744.7	734.1	718.4	701.1	684.9	672.3
55°	694.6	709.6	717.9	721.0	717.9	709.6	694.6	677.3	660.7	640.4	622.4
57.5°	657.2	671.1	680.7	683.0	680.7	671.1	657.2	637.0	615.6	593.9	574.7
60°	628.4	643.4	655.4	657.7	655.4	643.4	628.4	608.0	585.5	564.4	540.4
62.5°	598.9	614.5	625.4	631.2	625.4	614.5	598.9	577.3	553.0	529.5	505.4
65°	547.8	563.6	574.2	576.5	574.2	563.6	547.8	526.8	501.1	476.4	456.0
67.5°	492.2	507.9	514.9	519.2	514.9	507.9	492.2	472.3	447.0	421.3	398.2
70°	453.0	465.8	473.3	477.1	473.3	465.8	453.0	432.0	410.9	384.6	359.7
72.5°	408.5	421.9	430.6	431.3	430.6	421.9	408.5	390.4	368.2	343.7	321.8
75°	340.2	352.2	356.7	356.7	356.7	352.2	340.2	322.8	304.8	285.2	263.3
77.5°	269.3	275.4	281.2	282.4	281.2	275.4	269.3	256.7	241.9	222.3	205.9
80°	223.5	227.2	231.8	231.8	231.8	227.2	223.5	212.3	197.9	181.3	168.5
82.5°	176.5	179.7	184.3	183.6	184.3	179.7	176.5	167.7	155.8	144.7	133.1
85°	106.9	113.7	112.9	111.4	112.9	113.7	106.9	108.4	97.1	89.5	79.0
87.5°	55.1	55.9	57.8	59.1	57.8	55.9	55.1	53.3	47.6	44.3	41.6
90°	35.1	35.6	36.1	36.7	36.1	35.6	35.1	34.5	33.5	31.8	30.2
92.5°	33.5	33.6	33.6	33.7	33.6	33.6	33.5	33.3	32.4	30.8	29.2
95°	34.6	34.9	35.2	35.4	35.2	34.9	34.6	34.4	33.5	31.8	30.2
97.5°	33.5	33.6	33.9	34.2	33.9	33.6	33.5	33.2	32.9	32.8	32.6
100°	33.5	33.6	33.9	34.2	33.9	33.6	33.5	33.2	35.3	40.0	44.6
102.5°	35.1	35.1	35.2	35.3	35.2	35.1	35.1	35.0	59.9	109.7	159.6
105°	377.8	368.0	358.2	348.5	358.2	368.0	377.8	387.6	391.2	388.8	386.3
107.5°	482.5	483.5	484.6	485.6	484.6	483.5	482.5	481.5	480.3	479.2	478.0
110°	542.8	543.7	544.4	545.3	544.4	543.7	542.8	542.0	541.3	540.7	540.3



TEST NUMBER: P332853-830

CATALOG NUMBER: S124DIW-S1195D1340U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	601.8	602.9	603.9	604.9	603.9	602.9	601.8	600.8	600.3	600.4	600.5
115°	691.9	691.9	691.9	691.9	691.9	691.9	691.9	691.9	691.6	691.2	690.6
117.5°	780.8	780.7	780.6	780.4	780.6	780.7	780.8	780.9	781.0	781.1	781.2
120°	837.8	837.3	836.8	836.2	836.8	837.3	837.8	838.4	838.4	837.8	837.3
122.5°	892.6	892.0	891.6	891.0	891.6	892.0	892.6	893.2	893.2	893.0	892.6
125°	972.3	972.6	972.9	973.2	972.9	972.6	972.3	972.0	971.5	970.7	969.9
127.5°	1045.9	1045.7	1045.5	1045.3	1045.5	1045.7	1045.9	1046.1	1046.3	1046.5	1046.7
130°	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.0	1093.7	1093.4
132.5°	1139.8	1139.6	1139.3	1139.2	1139.3	1139.6	1139.8	1140.0	1140.0	1139.7	1139.4
135°	1205.0	1205.5	1206.1	1206.6	1206.1	1205.5	1205.0	1204.5	1203.9	1203.3	1202.9
137.5°	1264.8	1264.7	1264.5	1264.3	1264.5	1264.7	1264.8	1265.0	1264.8	1264.1	1263.6
140°	1303.6	1303.9	1304.2	1304.5	1304.2	1303.9	1303.6	1303.3	1302.8	1302.0	1301.2
142.5°	1337.6	1337.6	1337.7	1337.7	1337.7	1337.6	1337.6	1337.5	1337.2	1336.5	1336.0
145°	1387.1	1387.7	1388.3	1388.8	1388.3	1387.7	1387.1	1386.7	1386.2	1385.9	1385.6
147.5°	1430.3	1430.6	1430.8	1431.1	1430.8	1430.6	1430.3	1430.0	1429.7	1429.6	1429.4
150°	1457.6	1457.9	1458.2	1458.5	1458.2	1457.9	1457.6	1457.4	1457.3	1457.3	1457.3
152.5°	1482.4	1482.2	1482.1	1482.0	1482.1	1482.2	1482.4	1482.6	1482.4	1482.1	1481.6
155°	1516.0	1515.1	1514.3	1513.5	1514.3	1515.1	1516.0	1516.7	1516.6	1515.5	1514.5
157.5°	1544.2	1542.8	1541.3	1539.9	1541.3	1542.8	1544.2	1545.6	1545.6	1544.2	1542.8
160°	1562.4	1560.8	1559.2	1557.6	1559.2	1560.8	1562.4	1564.1	1564.1	1562.4	1560.8
162.5°	1576.8	1574.9	1573.0	1571.2	1573.0	1574.9	1576.8	1578.6	1578.7	1577.1	1575.5
165°	1597.9	1595.4	1593.0	1590.5	1593.0	1595.4	1597.9	1600.2	1600.4	1598.3	1596.1
167.5°	1613.1	1610.3	1607.7	1605.0	1607.7	1610.3	1613.1	1615.8	1616.0	1613.5	1611.2
170°	1621.9	1619.2	1616.5	1613.7	1616.5	1619.2	1621.9	1624.6	1624.8	1622.7	1620.5
172.5°	1627.4	1624.5	1621.6	1618.6	1621.6	1624.5	1627.4	1630.4	1630.8	1628.6	1626.4
175°	1634.6	1631.3	1628.0	1624.8	1628.0	1631.3	1634.6	1637.8	1638.2	1635.8	1633.3
177.5°	1636.4	1633.9	1631.3	1628.6	1631.3	1633.9	1636.4	1639.1	1639.6	1637.8	1636.1
180°	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6



TEST NUMBER: P332853-830

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1736.5	1739.0	1748.6	1757.7	1768.5	1776.3	1781.7	1787.7	1800.4	1810.6	1820.2
5°	1627.0	1630.8	1650.3	1663.9	1687.2	1707.5	1723.3	1740.6	1761.0	1788.8	1814.4
7.5°	1530.5	1544.5	1565.8	1587.8	1611.7	1638.2	1661.4	1687.5	1722.6	1760.8	1800.3
10°	1475.7	1491.6	1514.1	1539.7	1562.3	1593.1	1621.7	1652.6	1692.4	1739.1	1785.7
12.5°	1421.0	1447.0	1464.1	1494.5	1518.9	1544.4	1574.8	1615.2	1661.8	1710.8	1767.1
15°	1352.3	1366.6	1399.7	1416.3	1450.9	1490.1	1520.1	1560.8	1605.9	1670.7	1733.8
17.5°	1273.2	1291.9	1318.3	1349.9	1389.6	1420.2	1457.6	1499.5	1556.4	1620.7	1699.9
20°	1221.3	1237.2	1269.5	1304.1	1346.3	1378.7	1418.5	1459.2	1517.9	1586.4	1669.1
22.5°	1175.0	1190.2	1224.4	1256.6	1297.5	1337.1	1378.8	1426.1	1482.3	1554.4	1639.0
25°	1103.2	1123.5	1153.7	1186.8	1225.9	1271.0	1316.2	1358.3	1418.5	1494.5	1584.9
27.5°	1039.5	1055.8	1077.6	1115.2	1159.7	1203.3	1248.1	1301.2	1359.0	1439.3	1533.0
30°	998.6	1013.7	1035.5	1070.1	1111.5	1158.2	1204.9	1255.9	1316.2	1396.0	1491.6
32.5°	966.1	977.5	996.9	1027.9	1065.7	1114.8	1160.8	1213.8	1277.1	1355.7	1448.8
35°	918.1	927.8	935.4	964.8	998.6	1043.8	1090.4	1146.9	1207.9	1282.3	1375.6
37.5°	871.0	874.3	885.3	904.6	937.4	978.9	1022.3	1077.8	1140.3	1216.0	1300.0
40°	842.1	843.6	850.4	868.5	897.0	936.1	978.3	1033.2	1092.7	1164.1	1247.7
42.5°	813.8	812.8	819.1	831.7	858.5	894.0	935.6	985.7	1045.1	1111.2	1189.9
45°	769.1	769.1	767.6	778.2	799.9	834.5	869.2	917.4	967.0	1031.7	1098.0
47.5°	722.5	718.2	719.5	725.0	743.4	771.8	806.7	846.1	889.9	944.7	1002.9
50°	692.3	686.4	684.1	690.0	706.6	731.5	764.6	799.2	840.6	888.7	938.4
52.5°	659.2	653.2	649.1	653.4	668.7	691.7	721.8	752.2	789.4	828.6	871.6
55°	608.0	601.2	599.0	600.5	611.8	629.9	655.4	683.3	711.1	743.5	773.6
57.5°	557.6	546.5	544.4	543.7	551.5	568.0	589.4	613.5	633.8	653.4	685.4
60°	524.5	511.0	506.4	505.7	511.7	525.3	544.8	568.9	583.2	596.7	624.6
62.5°	489.0	476.1	466.1	467.2	472.6	485.5	502.7	520.2	529.6	544.4	563.2
65°	434.2	417.6	410.1	407.8	410.9	421.4	435.0	446.3	456.8	462.8	480.9
67.5°	379.5	365.6	354.5	351.8	350.3	357.6	368.7	375.5	383.0	388.3	399.0
70°	340.9	328.9	315.3	310.8	310.0	316.0	326.6	327.3	337.9	340.2	351.5
72.5°	302.9	287.9	278.6	274.1	270.9	276.4	283.2	285.2	291.0	295.0	300.9
75°	243.8	232.5	223.5	216.7	214.4	217.4	217.4	221.2	225.0	227.2	234.0
77.5°	191.9	179.0	168.2	164.4	161.6	159.7	161.4	163.6	161.8	165.7	167.2
80°	155.8	142.2	133.9	132.4	127.9	124.1	123.4	125.6	122.6	124.1	128.7
82.5°	120.3	111.5	102.6	101.1	95.4	93.5	92.7	91.3	91.3	91.0	92.0
85°	71.4	66.3	60.2	56.5	54.2	50.4	50.4	48.9	47.4	45.9	46.7
87.5°	34.6	33.1	29.6	27.4	25.7	22.9	22.4	20.0	18.8	17.6	16.4
90°	28.6	26.9	24.7	22.5	20.4	18.2	15.6	12.6	9.6	6.7	3.7
92.5°	27.5	25.9	23.8	21.6	19.4	17.2	16.0	15.9	15.7	15.6	15.4
95°	28.6	26.9	26.6	26.4	26.1	25.8	30.3	39.5	48.7	58.0	67.2
97.5°	32.4	32.2	62.6	92.9	123.2	153.5	165.8	160.0	154.3	148.5	142.8
100°	49.2	53.8	91.2	128.8	166.3	203.8	220.1	215.2	210.3	205.4	200.5
102.5°	209.3	259.2	264.1	269.0	273.8	278.7	279.4	275.8	272.2	268.6	265.0
105°	383.9	381.4	380.0	378.7	377.4	376.0	374.5	372.9	371.3	369.6	368.0
107.5°	476.7	475.6	473.7	471.8	470.0	468.2	466.8	466.0	465.2	464.4	463.5
110°	539.7	539.1	537.5	535.8	534.2	532.6	531.4	530.6	529.8	529.0	528.1



TEST NUMBER: P332853-830

CATALOG NUMBER: S124DIW-S1195D1340U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	600.7	600.8	600.0	599.3	598.5	597.7	596.6	595.1	593.7	592.2	590.7
115°	690.0	689.5	689.8	690.0	690.3	690.6	690.3	689.5	688.7	687.9	687.0
117.5°	781.4	781.5	780.8	780.2	779.7	779.0	778.2	777.1	776.0	775.0	773.8
120°	836.8	836.2	836.5	836.8	837.1	837.3	836.9	835.8	834.7	833.6	832.5
122.5°	892.3	891.9	891.6	891.2	890.8	890.4	889.9	889.3	888.6	888.0	887.3
125°	969.0	968.3	968.7	969.3	969.9	970.4	970.2	969.0	968.0	966.9	965.8
127.5°	1046.8	1047.0	1045.8	1044.4	1043.2	1042.0	1041.2	1040.9	1040.7	1040.4	1040.1
130°	1093.3	1093.0	1092.1	1091.3	1090.5	1089.7	1089.1	1088.8	1088.6	1088.4	1088.1
132.5°	1139.2	1138.9	1137.8	1136.8	1135.9	1134.8	1134.0	1133.5	1133.0	1132.6	1132.1
135°	1202.3	1201.7	1200.7	1199.6	1198.4	1197.4	1197.0	1197.3	1197.5	1197.8	1198.1
137.5°	1263.0	1262.3	1261.2	1260.0	1258.8	1257.6	1257.0	1256.9	1256.7	1256.6	1256.5
140°	1300.3	1299.6	1299.0	1298.4	1297.9	1297.4	1296.8	1296.3	1295.7	1295.2	1294.7
142.5°	1335.4	1334.7	1334.5	1334.1	1333.8	1333.4	1332.8	1331.8	1330.9	1329.8	1328.9
145°	1385.4	1385.2	1385.2	1385.2	1385.2	1385.2	1384.7	1383.9	1383.1	1382.2	1381.5
147.5°	1429.1	1428.9	1429.2	1429.5	1429.7	1430.0	1429.4	1427.9	1426.3	1424.7	1423.2
150°	1457.3	1457.3	1457.5	1457.8	1458.1	1458.3	1457.9	1456.9	1455.8	1454.7	1453.6
152.5°	1481.2	1480.7	1481.2	1481.7	1482.2	1482.7	1482.5	1481.6	1480.7	1479.9	1479.0
155°	1513.3	1512.3	1513.1	1513.9	1514.8	1515.5	1515.8	1515.5	1515.2	1514.9	1514.8
157.5°	1541.3	1539.9	1540.9	1541.7	1542.7	1543.6	1544.2	1544.3	1544.5	1544.6	1544.8
160°	1559.2	1557.6	1557.7	1558.0	1558.3	1558.6	1559.2	1559.9	1560.8	1561.6	1562.4
162.5°	1573.8	1572.2	1572.4	1572.7	1573.0	1573.3	1574.0	1575.0	1576.0	1577.0	1578.0
165°	1593.9	1591.8	1591.8	1591.8	1591.8	1591.8	1592.4	1593.7	1595.2	1596.5	1597.9
167.5°	1608.8	1606.4	1606.6	1606.8	1606.9	1607.0	1607.9	1609.3	1610.7	1612.1	1613.5
170°	1618.3	1616.2	1615.9	1615.6	1615.3	1615.1	1615.8	1617.4	1619.0	1620.7	1622.3
172.5°	1624.2	1622.0	1621.7	1621.6	1621.3	1621.0	1621.6	1623.2	1624.9	1626.5	1628.1
175°	1630.9	1628.4	1628.1	1627.9	1627.6	1627.3	1628.0	1629.7	1631.3	1632.9	1634.6
177.5°	1634.3	1632.6	1632.1	1631.7	1631.3	1630.8	1631.4	1632.9	1634.4	1636.0	1637.5
180°	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6



TEST NUMBER: P332853-830

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1828.6	1834.7	1842.5	1855.8	1860.6	1866.6	1875.0	1874.4	1876.8	1885.8	1905.2
5°	1835.4	1858.8	1881.3	1908.5	1937.0	1955.9	1981.4	1997.2	2013.1	2033.3	2067.9
7.5°	1838.1	1875.2	1916.6	1964.2	2006.4	2055.2	2093.3	2129.1	2161.4	2204.3	2245.6
10°	1833.9	1883.6	1937.0	1997.2	2061.2	2115.3	2164.3	2220.0	2267.4	2319.3	2366.0
12.5°	1826.1	1886.0	1957.5	2025.0	2099.7	2179.8	2240.8	2297.1	2360.1	2419.9	2491.8
15°	1808.4	1890.4	1973.9	2062.7	2162.8	2255.3	2343.4	2416.4	2484.2	2573.7	2667.8
17.5°	1785.7	1874.2	1979.6	2087.1	2191.7	2297.5	2406.5	2516.2	2601.7	2712.9	2786.5
20°	1764.7	1867.1	1975.4	2103.4	2207.9	2339.7	2448.0	2554.1	2671.5	2782.1	2870.1
22.5°	1735.2	1847.2	1962.2	2089.5	2227.2	2358.9	2484.2	2599.2	2716.7	2837.0	2943.7
25°	1697.7	1799.3	1935.5	2080.0	2217.0	2359.9	2503.7	2648.2	2774.6	2901.8	3001.1
27.5°	1633.9	1762.2	1889.0	2038.2	2190.4	2352.1	2505.8	2657.0	2789.5	2894.1	2955.6
30°	1601.4	1712.8	1850.5	2000.3	2165.0	2338.9	2499.2	2647.4	2770.9	2854.4	2879.2
32.5°	1553.2	1668.2	1802.9	1958.1	2132.5	2311.2	2478.1	2617.9	2720.8	2764.7	2734.7
35°	1481.8	1585.6	1721.8	1880.6	2061.9	2252.3	2417.2	2535.3	2587.9	2546.6	2443.4
37.5°	1396.0	1498.9	1635.7	1791.7	1979.3	2172.8	2321.9	2406.9	2389.4	2286.5	2132.9
40°	1335.8	1432.1	1562.3	1730.8	1913.7	2107.9	2238.8	2284.7	2236.6	2089.1	1925.7
42.5°	1268.9	1362.8	1493.6	1656.1	1849.9	2029.0	2143.1	2146.8	2066.1	1889.8	1725.9
45°	1167.2	1256.7	1380.2	1549.4	1728.6	1897.1	1972.4	1935.5	1786.5	1616.5	1451.6
47.5°	1066.8	1144.4	1266.0	1426.8	1596.9	1738.8	1776.1	1709.8	1551.0	1385.9	1233.1
50°	993.3	1071.6	1186.0	1339.5	1503.5	1626.3	1644.3	1556.2	1400.4	1234.2	1114.5
52.5°	922.9	1000.6	1110.8	1252.8	1403.1	1513.6	1514.3	1412.4	1257.2	1108.9	997.7
55°	819.5	889.5	988.8	1116.0	1250.0	1336.5	1315.4	1210.0	1075.3	946.7	849.6
57.5°	719.9	780.8	872.3	978.5	1096.5	1167.8	1132.8	1031.4	911.2	802.0	728.5
60°	655.4	713.4	791.6	891.7	991.1	1046.8	1013.7	921.9	811.2	723.2	659.2
62.5°	592.9	641.8	717.0	803.9	896.0	937.2	907.7	817.1	721.5	641.9	590.0
65°	504.2	544.1	604.3	678.8	745.7	781.2	756.3	672.0	599.0	541.9	500.4
67.5°	421.4	452.6	498.1	557.9	614.8	634.0	611.3	552.7	490.8	445.1	415.8
70°	364.2	393.6	432.0	477.9	527.5	547.8	525.3	478.6	428.2	386.1	357.4
72.5°	314.2	337.0	369.4	408.6	447.4	467.8	452.4	407.6	365.0	333.7	309.2
75°	239.3	258.9	281.4	309.2	339.4	353.0	339.4	308.5	279.2	255.9	238.6
77.5°	174.0	184.5	202.0	222.7	241.6	251.9	240.3	219.3	201.4	185.4	176.8
80°	132.4	140.0	152.0	168.5	181.3	191.1	183.6	166.3	152.0	141.5	137.7
82.5°	96.3	101.4	109.2	121.6	130.2	135.2	131.9	119.3	113.5	104.2	100.4
85°	47.4	50.4	55.7	59.5	67.0	67.8	68.5	63.2	58.0	55.7	52.7
87.5°	17.6	18.8	21.2	23.6	26.5	27.5	27.4	27.8	25.8	25.5	23.5
90°	6.7	9.6	12.6	15.6	18.2	20.4	22.5	24.7	26.9	28.6	30.2
92.5°	15.6	15.7	15.9	16.0	17.2	19.4	21.6	23.8	25.9	27.5	29.2
95°	58.0	48.7	39.5	30.3	25.8	26.1	26.4	26.6	26.9	28.6	30.2
97.5°	148.5	154.3	160.0	165.8	153.5	123.2	92.9	62.6	32.2	32.4	32.6
100°	205.4	210.3	215.2	220.1	203.8	166.3	128.8	91.2	53.8	49.2	44.6
102.5°	268.6	272.2	275.8	279.4	278.7	273.8	269.0	264.1	259.2	209.3	159.6
105°	369.6	371.3	372.9	374.5	376.0	377.4	378.7	380.0	381.4	383.9	386.3
107.5°	464.4	465.2	466.0	466.8	468.2	470.0	471.8	473.7	475.6	476.7	478.0
110°	529.0	529.8	530.6	531.4	532.6	534.2	535.8	537.5	539.1	539.7	540.3





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	592.2	593.7	595.1	596.6	597.7	598.5	599.3	600.0	600.8	600.7	600.5
115°	687.9	688.7	689.5	690.3	690.6	690.3	690.0	689.8	689.5	690.0	690.6
117.5°	775.0	776.0	777.1	778.2	779.0	779.7	780.2	780.8	781.5	781.4	781.2
120°	833.6	834.7	835.8	836.9	837.3	837.1	836.8	836.5	836.2	836.8	837.3
122.5°	888.0	888.6	889.3	889.9	890.4	890.8	891.2	891.6	891.9	892.3	892.6
125°	966.9	968.0	969.0	970.2	970.4	969.9	969.3	968.7	968.3	969.0	969.9
127.5°	1040.4	1040.7	1040.9	1041.2	1042.0	1043.2	1044.4	1045.8	1047.0	1046.8	1046.7
130°	1088.4	1088.6	1088.8	1089.1	1089.7	1090.5	1091.3	1092.1	1093.0	1093.3	1093.4
132.5°	1132.6	1133.0	1133.5	1134.0	1134.8	1135.9	1136.8	1137.8	1138.9	1139.2	1139.4
135°	1197.8	1197.5	1197.3	1197.0	1197.4	1198.4	1199.6	1200.7	1201.7	1202.3	1202.9
137.5°	1256.6	1256.7	1256.9	1257.0	1257.6	1258.8	1260.0	1261.2	1262.3	1263.0	1263.6
140°	1295.2	1295.7	1296.3	1296.8	1297.4	1297.9	1298.4	1299.0	1299.6	1300.3	1301.2
142.5°	1329.8	1330.9	1331.8	1332.8	1333.4	1333.8	1334.1	1334.5	1334.7	1335.4	1336.0
145°	1382.2	1383.1	1383.9	1384.7	1385.2	1385.2	1385.2	1385.2	1385.2	1385.4	1385.6
147.5°	1424.7	1426.3	1427.9	1429.4	1430.0	1429.7	1429.5	1429.2	1428.9	1429.1	1429.4
150°	1454.7	1455.8	1456.9	1457.9	1458.3	1458.1	1457.8	1457.5	1457.3	1457.3	1457.3
152.5°	1479.9	1480.7	1481.6	1482.5	1482.7	1482.2	1481.7	1481.2	1480.7	1481.2	1481.6
155°	1514.9	1515.2	1515.5	1515.8	1515.5	1514.8	1513.9	1513.1	1512.3	1513.3	1514.5
157.5°	1544.6	1544.5	1544.3	1544.2	1543.6	1542.7	1541.7	1540.9	1539.9	1541.3	1542.8
160°	1561.6	1560.8	1559.9	1559.2	1558.6	1558.3	1558.0	1557.7	1557.6	1559.2	1560.8
162.5°	1577.0	1576.0	1575.0	1574.0	1573.3	1573.0	1572.7	1572.4	1572.2	1573.8	1575.5
165°	1596.5	1595.2	1593.7	1592.4	1591.8	1591.8	1591.8	1591.8	1591.8	1593.9	1596.1
167.5°	1612.1	1610.7	1609.3	1607.9	1607.0	1606.9	1606.8	1606.6	1606.4	1608.8	1611.2
170°	1620.7	1619.0	1617.4	1615.8	1615.1	1615.3	1615.6	1615.9	1616.2	1618.3	1620.5
172.5°	1626.5	1624.9	1623.2	1621.6	1621.0	1621.3	1621.6	1621.7	1622.0	1624.2	1626.4
175°	1632.9	1631.3	1629.7	1628.0	1627.3	1627.6	1627.9	1628.1	1628.4	1630.9	1633.3
177.5°	1636.0	1634.4	1632.9	1631.4	1630.8	1631.3	1631.7	1632.1	1632.6	1634.3	1636.1
180°	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1914.8	1916.0	1921.4	1925.6	1926.8	1932.8	1933.4
5°	2083.0	2095.8	2120.6	2122.9	2126.7	2146.3	2131.2
7.5°	2280.2	2312.7	2334.4	2353.5	2360.4	2369.0	2367.2
10°	2406.6	2454.8	2478.9	2517.2	2518.8	2528.6	2522.5
12.5°	2533.6	2589.6	2633.6	2640.6	2672.9	2677.9	2686.2
15°	2713.7	2773.1	2834.0	2855.9	2900.3	2910.9	2927.3
17.5°	2882.9	2943.7	2986.4	3042.8	3061.0	3085.4	3068.8
20°	2975.5	3041.8	3096.0	3140.4	3159.1	3172.7	3171.2
22.5°	3031.5	3098.3	3142.2	3175.9	3193.4	3199.2	3198.9
25°	3066.6	3104.9	3118.5	3131.3	3111.7	3104.9	3107.9
27.5°	2969.1	2959.1	2923.8	2877.4	2829.2	2791.0	2770.2
30°	2834.8	2776.1	2722.7	2629.3	2581.2	2552.6	2527.1
32.5°	2644.6	2551.6	2448.7	2363.2	2308.5	2266.1	2259.7
35°	2318.6	2178.6	2053.0	1948.3	1894.1	1848.2	1837.7
37.5°	1971.2	1825.8	1712.6	1620.5	1562.3	1529.9	1499.7
40°	1740.6	1615.7	1504.3	1426.1	1381.7	1358.3	1339.5
42.5°	1563.0	1449.0	1338.1	1278.6	1238.4	1224.1	1213.1
45°	1317.7	1211.5	1134.8	1089.7	1066.3	1042.3	1031.0
47.5°	1121.2	1034.9	984.3	945.9	921.0	906.6	899.5
50°	1009.9	939.1	894.0	864.7	842.1	830.8	824.8
52.5°	911.2	853.1	815.1	791.8	776.5	768.2	765.8
55°	784.9	740.5	716.4	696.1	684.9	677.3	674.3
57.5°	682.2	648.1	628.5	611.8	607.5	601.2	599.0
60°	614.8	588.5	571.9	560.6	556.9	549.3	550.8
62.5°	555.3	533.7	519.5	513.1	508.1	501.8	503.9
65°	469.6	453.7	446.3	440.3	434.2	430.5	433.5
67.5°	394.0	383.2	373.0	369.5	366.5	365.9	362.7
70°	344.7	335.6	326.6	324.3	324.3	321.3	320.6
72.5°	297.1	290.5	284.5	282.8	280.4	281.6	278.4
75°	229.5	224.2	222.0	219.7	219.0	219.0	216.7
77.5°	169.7	165.7	162.1	162.1	159.4	158.3	158.1
80°	128.7	127.1	124.1	124.1	122.6	123.4	121.9
82.5°	96.8	94.6	94.1	92.8	90.8	90.9	89.4
85°	51.9	49.7	48.9	46.7	45.1	46.7	45.1
87.5°	24.4	24.1	23.8	22.6	22.1	22.2	20.5
90°	31.8	33.5	34.5	35.1	35.6	36.1	36.7
92.5°	30.8	32.4	33.3	33.5	33.6	33.6	33.7
95°	31.8	33.5	34.4	34.6	34.9	35.2	35.4
97.5°	32.8	32.9	33.2	33.5	33.6	33.9	34.2
100°	40.0	35.3	33.2	33.5	33.6	33.9	34.2
102.5°	109.7	59.9	35.0	35.1	35.1	35.2	35.3
105°	388.8	391.2	387.6	377.8	368.0	358.2	348.5
107.5°	479.2	480.3	481.5	482.5	483.5	484.6	485.6
110°	540.7	541.3	542.0	542.8	543.7	544.4	545.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	600.4	600.3	600.8	601.8	602.9	603.9	604.9
115°	691.2	691.6	691.9	691.9	691.9	691.9	691.9
117.5°	781.1	781.0	780.9	780.8	780.7	780.6	780.4
120°	837.8	838.4	838.4	837.8	837.3	836.8	836.2
122.5°	893.0	893.2	893.2	892.6	892.0	891.6	891.0
125°	970.7	971.5	972.0	972.3	972.6	972.9	973.2
127.5°	1046.5	1046.3	1046.1	1045.9	1045.7	1045.5	1045.3
130°	1093.7	1094.0	1094.2	1094.2	1094.2	1094.2	1094.2
132.5°	1139.7	1140.0	1140.0	1139.8	1139.6	1139.3	1139.2
135°	1203.3	1203.9	1204.5	1205.0	1205.5	1206.1	1206.6
137.5°	1264.1	1264.8	1265.0	1264.8	1264.7	1264.5	1264.3
140°	1302.0	1302.8	1303.3	1303.6	1303.9	1304.2	1304.5
142.5°	1336.5	1337.2	1337.5	1337.6	1337.6	1337.7	1337.7
145°	1385.9	1386.2	1386.7	1387.1	1387.7	1388.3	1388.8
147.5°	1429.6	1429.7	1430.0	1430.3	1430.6	1430.8	1431.1
150°	1457.3	1457.3	1457.4	1457.6	1457.9	1458.2	1458.5
152.5°	1482.1	1482.4	1482.6	1482.4	1482.2	1482.1	1482.0
155°	1515.5	1516.6	1516.7	1516.0	1515.1	1514.3	1513.5
157.5°	1544.2	1545.6	1545.6	1544.2	1542.8	1541.3	1539.9
160°	1562.4	1564.1	1564.1	1562.4	1560.8	1559.2	1557.6
162.5°	1577.1	1578.7	1578.6	1576.8	1574.9	1573.0	1571.2
165°	1598.3	1600.4	1600.2	1597.9	1595.4	1593.0	1590.5
167.5°	1613.5	1616.0	1615.8	1613.1	1610.3	1607.7	1605.0
170°	1622.7	1624.8	1624.6	1621.9	1619.2	1616.5	1613.7
172.5°	1628.6	1630.8	1630.4	1627.4	1624.5	1621.6	1618.6
175°	1635.8	1638.2	1637.8	1634.6	1631.3	1628.0	1624.8
177.5°	1637.8	1639.6	1639.1	1636.4	1633.9	1631.3	1628.6
180°	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6

(END OF REPORT)