

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: P333108-830

Luminaire Tested: **S124RDIW-S1195D1340U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333108-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124RDIW-S1195D1340U830-4F0-1E-UDD-A1  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1340 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

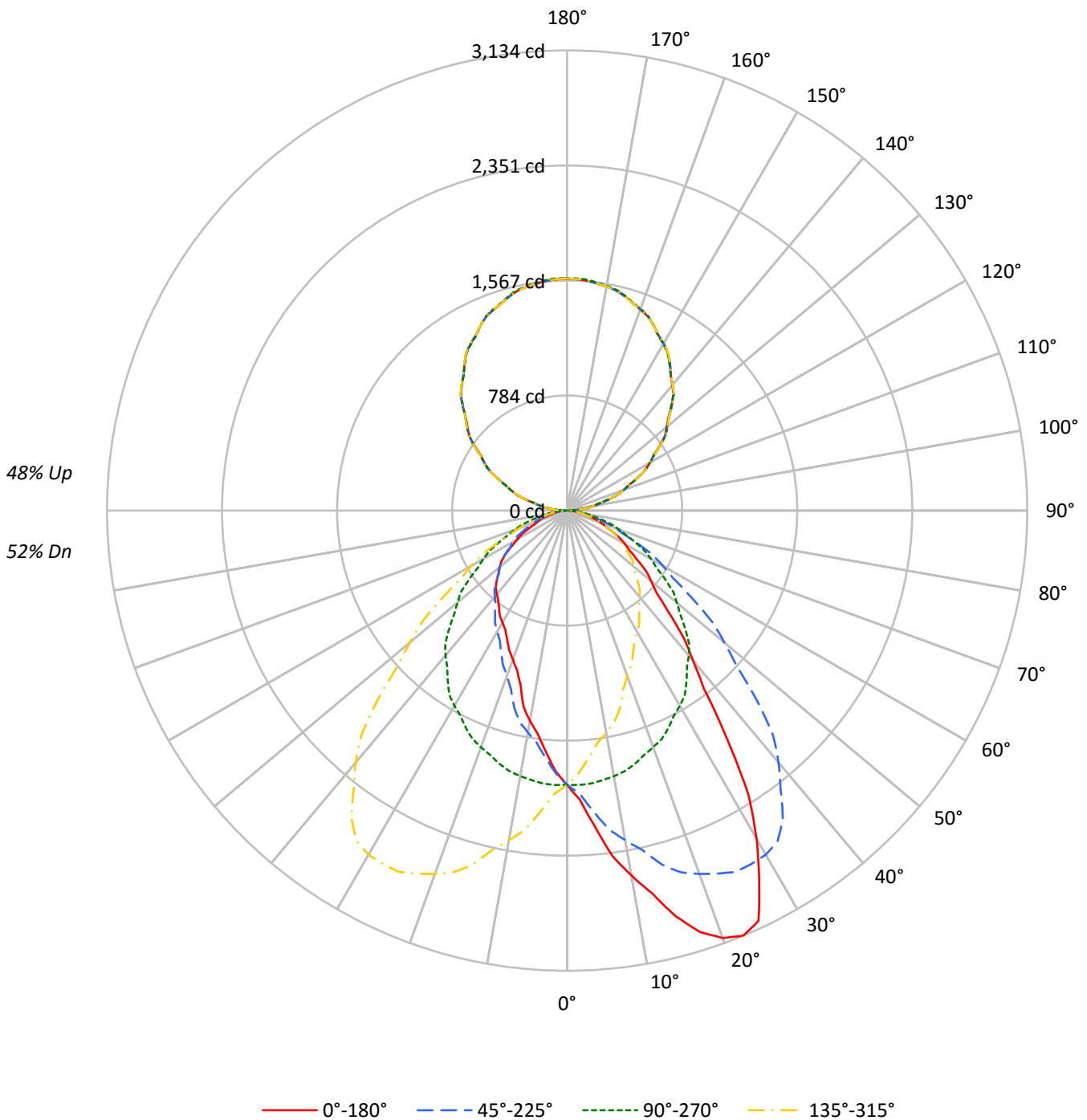
Lumens per Lamp: N/A  
Luminaire Lumens: 9111.1 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 76.2  
Input Voltage (V): 120  
Input Current (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	0
RCR																		
0	108	108	108	108	99	99	99	99	84	84	84	71	71	71	58	58	58	52
1	99	95	91	87	91	88	84	82	75	72	70	63	61	60	52	51	50	45
2	90	83	77	72	83	77	72	68	66	62	59	56	53	51	46	44	43	38
3	83	73	66	61	76	68	62	57	59	54	50	50	46	43	41	39	37	33
4	76	65	58	52	70	61	54	49	52	47	43	45	41	37	37	34	32	29
5	70	58	50	45	64	54	47	42	47	42	37	40	36	33	34	31	28	25
6	64	52	45	39	59	49	42	37	43	37	33	36	32	29	31	27	25	22
7	60	47	40	34	55	44	37	32	39	33	29	33	29	26	28	25	22	20
8	55	43	36	30	51	40	34	29	35	30	26	30	26	23	26	23	20	18
9	52	40	32	27	48	37	30	26	32	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	28	23	30	25	21	26	22	19	22	19	17	15

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

	0°	90°	180°	270°
0°	15079	15079	15079	15079
5°	17490	15124	13367	15124
10°	20690	15058	11931	15058
15°	23901	14919	10252	14919
20°	26611	14728	9271	14728
25°	27470	14539	8607	14539
30°	24047	14311	8207	14311
35°	18719	13973	7965	13973
40°	14037	13585	7835	13585
45°	11082	12965	7767	12965
50°	9357	12248	7542	12248
55°	8156	11461	7139	11461
60°	7338	10643	6318	10643
65°	6470	9761	5435	9761
70°	5828	8847	4902	8847
75°	4885	7842	4177	7842
80°	4128	6681	3919	6681
85°	3483	5233	3483	5233



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.0	2.0
10°-20°	545.9	6.0
20°-30°	853.8	9.4
30°-40°	949.2	10.4
40°-50°	842.2	9.2
50°-60°	656.2	7.2
60°-70°	429.6	4.7
70°-80°	211.3	2.3
80°-90°	56.9	0.6
90°-100°	104.3	1.1
100°-110°	308.8	3.4
110°-120°	524.1	5.8
120°-130°	691.1	7.6
130°-140°	776.2	8.5
140°-150°	762.7	8.4
150°-160°	641.5	7.0
160°-170°	426.8	4.7
170°-180°	149.5	1.6
0°-30°	1580.7	17.3
0°-40°	2529.9	27.8
0°-60°	4028.3	44.2
0°-90°	4726.1	51.9
90°-120°	937.2	10.3
90°-150°	3167.3	34.8
90°-180°	4385.0	48.1
0°-180°	9111.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1868	1868	1868	1868	1868	
5°	2158	1866	1650	1866	2158	218
15°	2860	1785	1227	1785	2860	813
25°	3084	1632	966	1632	3084	1368
35°	1899	1418	808	1418	1899	1191
45°	971	1136	680	1136	971	769
55°	580	814	507	814	580	527
65°	339	511	284	511	339	341
75°	157	251	134	251	157	172
85°	38	56	38	56	38	43
90°	37	4	37	4	37	20
95°	97	73	97	73	97	101
105°	298	285	298	285	298	314
115°	528	533	528	533	528	522
125°	770	776	770	776	770	687
135°	1002	1001	1002	1001	1002	774
145°	1218	1216	1218	1216	1218	762
155°	1392	1394	1392	1394	1392	641
165°	1513	1517	1513	1517	1513	426
175°	1571	1578	1571	1578	1571	149
180°	1580	1580	1580	1580	1580	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1970.1	1975.6	1970.1	1969.5	1963.5	1961.7	1959.3	1951.4	1937.0	1928.6	1930.4
5°	2158.2	2177.1	2166.5	2165.0	2148.5	2131.9	2121.4	2097.3	2071.7	2054.5	2040.1
7.5°	2375.9	2386.7	2380.1	2369.6	2342.8	2327.6	2303.2	2271.4	2225.5	2190.5	2158.4
10°	2524.0	2533.0	2530.1	2510.5	2490.9	2451.0	2428.5	2384.1	2326.1	2280.2	2237.3
12.5°	2669.7	2679.4	2652.9	2653.7	2616.7	2585.3	2549.5	2493.6	2426.7	2367.5	2313.8
15°	2859.7	2847.6	2847.6	2832.5	2791.2	2747.5	2710.7	2651.9	2567.7	2496.9	2422.4
17.5°	3008.3	3012.6	3006.3	2970.9	2938.4	2893.2	2825.6	2757.1	2678.9	2583.9	2507.7
20°	3097.5	3097.5	3090.7	3066.6	3024.4	2976.3	2903.3	2828.8	2729.4	2633.8	2548.1
22.5°	3133.6	3135.9	3128.0	3108.1	3070.2	3023.2	2961.1	2885.4	2783.0	2675.4	2569.2
25°	3083.9	3098.2	3099.6	3094.5	3083.2	3054.5	3001.1	2923.6	2831.8	2715.2	2600.8
27.5°	2831.3	2849.4	2865.2	2891.2	2925.8	2943.9	2946.3	2906.9	2826.8	2714.5	2599.4
30°	2579.6	2594.7	2643.6	2707.6	2757.3	2802.5	2841.6	2852.1	2807.0	2706.1	2584.9
32.5°	2300.4	2320.8	2369.7	2438.5	2521.3	2597.7	2685.7	2730.5	2729.3	2668.8	2556.6
35°	1899.4	1914.5	1959.6	2031.8	2131.2	2244.9	2384.1	2492.4	2566.2	2560.9	2492.4
37.5°	1531.8	1548.9	1594.5	1654.4	1750.7	1891.4	2026.1	2175.4	2311.8	2388.4	2365.5
40°	1332.0	1332.8	1377.1	1438.9	1529.2	1651.8	1798.6	1964.1	2116.1	2240.3	2264.4
42.5°	1174.2	1174.4	1203.7	1270.3	1335.3	1450.8	1590.8	1755.2	1933.2	2076.5	2140.3
45°	970.7	977.5	1001.6	1041.5	1092.7	1190.5	1302.6	1455.4	1654.8	1824.9	1931.0
47.5°	822.1	832.0	847.3	879.9	920.7	985.8	1078.6	1215.8	1378.0	1565.1	1716.1
50°	745.0	746.5	766.1	784.1	819.5	871.5	952.7	1067.1	1216.1	1395.9	1563.8
52.5°	678.8	678.4	690.2	713.1	741.9	782.3	847.9	952.1	1084.2	1245.5	1418.7
55°	579.5	583.2	592.2	610.3	632.2	660.7	712.7	790.9	894.8	1032.5	1189.8
57.5°	503.9	505.9	512.9	520.6	540.6	561.4	600.4	654.7	742.3	855.1	1001.6
60°	454.5	455.2	457.5	468.8	484.7	504.2	530.6	576.5	650.2	753.3	869.2
62.5°	406.3	407.7	411.2	419.4	431.7	445.2	472.8	509.6	570.7	658.7	763.2
65°	338.7	339.4	344.7	347.7	357.4	369.5	389.8	414.6	456.8	530.6	609.5
67.5°	283.0	283.0	283.2	287.3	294.1	302.1	314.2	334.1	365.9	411.2	480.9
70°	246.9	246.9	248.4	250.6	254.4	261.1	267.9	283.0	306.3	343.2	396.6
72.5°	213.1	213.7	215.2	215.7	217.6	223.2	228.2	237.8	255.1	283.0	326.1
75°	156.6	158.8	162.6	165.6	169.3	168.5	173.8	179.8	185.1	201.7	226.5
77.5°	116.5	115.3	115.7	118.3	118.8	119.5	123.3	127.9	131.9	139.7	148.5
80°	88.8	88.8	91.0	91.8	91.0	91.8	95.6	97.8	99.3	102.4	110.7
82.5°	67.1	68.3	67.6	68.3	68.8	69.6	72.7	73.1	74.6	75.9	79.4
85°	37.6	38.4	39.1	37.6	37.6	37.6	39.1	39.9	41.4	40.6	42.1
87.5°	20.5	19.9	20.4	20.3	20.7	19.9	20.2	21.1	19.5	19.8	19.4
90°	36.7	36.1	35.6	35.1	34.5	33.4	31.8	30.2	28.6	26.9	24.7
92.5°	54.3	53.9	53.6	53.3	53.0	52.3	51.4	50.3	49.4	48.4	46.8
95°	96.6	96.6	96.6	96.6	96.6	96.1	95.4	94.5	93.7	92.9	91.0
97.5°	151.4	151.4	151.4	151.4	151.4	150.8	149.9	148.9	147.9	146.9	144.7
100°	189.5	189.5	189.5	189.5	189.5	189.2	188.7	188.1	187.6	187.0	184.5
102.5°	232.5	232.2	232.1	231.9	231.6	231.1	230.4	229.6	228.8	228.1	225.8
105°	298.2	297.5	296.6	295.8	295.0	294.2	293.4	292.6	291.7	291.0	289.8
107.5°	362.3	362.4	362.4	362.5	362.5	362.2	361.4	360.6	359.9	359.1	359.0
110°	408.3	407.5	406.6	405.9	405.0	404.9	405.4	406.0	406.5	407.1	407.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	455.2	455.1	454.9	454.7	454.6	454.5	454.7	454.8	454.9	455.0	455.4
115°	528.1	528.3	528.6	528.9	529.1	529.4	529.7	530.0	530.3	530.5	531.0
117.5°	597.5	598.0	598.6	599.1	599.6	600.4	601.3	602.3	603.1	604.1	604.5
120°	650.3	649.8	649.2	648.7	648.1	648.6	649.9	651.3	652.6	653.9	654.8
122.5°	694.3	695.3	696.3	697.2	698.2	699.2	700.1	701.0	701.9	702.9	703.2
125°	770.1	770.6	771.2	771.8	772.2	772.8	773.4	773.9	774.4	775.0	775.2
127.5°	840.3	840.7	841.1	841.6	842.0	842.4	843.0	843.6	844.1	844.6	845.1
130°	886.2	887.3	888.3	889.5	890.6	891.4	891.9	892.5	893.0	893.5	893.5
132.5°	935.1	935.6	935.9	936.4	936.9	937.4	937.9	938.4	939.0	939.5	939.7
135°	1002.3	1003.1	1004.0	1004.8	1005.6	1006.3	1006.8	1007.4	1008.0	1008.4	1008.4
137.5°	1073.0	1072.8	1072.7	1072.5	1072.3	1072.6	1073.4	1074.0	1074.7	1075.4	1075.0
140°	1116.1	1116.3	1116.5	1116.8	1117.1	1117.4	1117.7	1117.9	1118.2	1118.4	1118.4
142.5°	1159.0	1159.1	1159.1	1159.2	1159.2	1159.3	1159.4	1159.4	1159.5	1159.5	1159.8
145°	1217.5	1218.3	1219.1	1219.9	1220.8	1221.3	1221.5	1221.8	1222.1	1222.4	1222.1
147.5°	1276.7	1277.0	1277.1	1277.4	1277.7	1278.0	1278.2	1278.4	1278.7	1278.8	1279.0
150°	1312.9	1313.1	1313.3	1313.6	1313.9	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0
152.5°	1346.0	1346.8	1347.5	1348.2	1348.9	1349.0	1348.3	1347.6	1347.0	1346.3	1346.1
155°	1392.3	1393.4	1394.5	1395.5	1396.7	1396.7	1395.5	1394.5	1393.4	1392.3	1392.5
157.5°	1433.6	1434.5	1435.4	1436.3	1437.3	1437.4	1436.5	1435.7	1434.9	1434.1	1434.2
160°	1457.1	1458.4	1459.8	1461.1	1462.4	1462.7	1462.0	1461.1	1460.3	1459.5	1459.8
162.5°	1481.5	1482.9	1484.2	1485.5	1487.0	1486.9	1485.4	1483.9	1482.5	1481.0	1481.3
165°	1513.3	1514.4	1515.4	1516.6	1517.7	1517.4	1515.7	1514.1	1512.5	1510.8	1511.4
167.5°	1536.1	1537.8	1539.4	1541.1	1542.8	1542.8	1541.2	1539.5	1537.9	1536.3	1536.3
170°	1548.8	1550.7	1552.6	1554.4	1556.3	1556.5	1554.8	1553.2	1551.6	1549.9	1549.7
172.5°	1559.5	1561.4	1563.3	1565.2	1567.1	1567.2	1565.3	1563.4	1561.6	1559.7	1559.7
175°	1570.7	1572.6	1574.5	1576.4	1578.4	1578.4	1576.4	1574.5	1572.6	1570.7	1571.0
177.5°	1576.6	1578.4	1580.1	1581.9	1583.6	1583.7	1582.2	1580.6	1579.1	1577.6	1577.6
180°	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1924.4	1916.0	1911.8	1902.1	1890.6	1884.6	1879.2	1871.4	1861.1	1850.3	1842.5
5°	2022.0	2004.0	1981.4	1954.4	1930.2	1907.0	1886.6	1866.3	1843.0	1818.9	1794.8
7.5°	2122.3	2086.8	2048.4	2004.0	1960.8	1921.6	1885.4	1850.8	1811.7	1776.6	1744.6
10°	2192.2	2144.0	2090.6	2034.1	1977.6	1928.7	1880.6	1836.9	1788.8	1745.9	1709.8
12.5°	2248.7	2192.2	2127.9	2057.6	1989.7	1930.5	1875.2	1818.3	1763.5	1717.0	1668.9
15°	2342.6	2265.1	2178.6	2094.3	2006.3	1925.7	1851.2	1785.0	1722.6	1657.1	1611.2
17.5°	2407.3	2315.3	2210.1	2108.8	2004.8	1909.8	1823.8	1745.0	1672.9	1606.1	1551.4
20°	2445.7	2344.1	2227.5	2112.3	1995.7	1894.1	1801.6	1714.3	1639.7	1567.5	1511.1
22.5°	2467.4	2354.9	2227.5	2107.0	1986.1	1876.0	1774.4	1683.6	1602.4	1530.2	1467.7
25°	2474.4	2353.9	2223.7	2085.3	1952.9	1836.2	1730.8	1632.2	1541.9	1469.7	1403.4
27.5°	2464.7	2322.9	2189.6	2047.5	1910.8	1787.9	1677.3	1573.7	1483.3	1405.7	1337.8
30°	2450.2	2298.2	2155.2	2007.8	1869.3	1751.1	1634.5	1535.2	1441.1	1360.6	1292.1
32.5°	2418.9	2268.1	2114.3	1963.2	1823.0	1701.2	1590.5	1490.6	1398.4	1316.1	1243.3
35°	2356.9	2204.1	2037.1	1882.1	1744.4	1618.0	1514.1	1417.8	1329.7	1241.7	1164.9
37.5°	2275.2	2119.1	1952.9	1783.2	1645.3	1526.0	1430.7	1340.3	1254.3	1173.9	1088.9
40°	2198.2	2056.0	1884.3	1715.8	1574.3	1459.2	1371.1	1289.1	1202.6	1122.8	1037.7
42.5°	2104.9	1983.7	1810.3	1641.2	1501.5	1390.5	1308.5	1228.3	1149.6	1072.2	983.5
45°	1949.1	1857.3	1694.7	1532.2	1391.5	1281.6	1206.4	1135.6	1066.3	992.6	909.1
47.5°	1770.6	1708.4	1568.1	1401.7	1271.5	1172.6	1099.9	1042.1	983.5	909.8	836.5
50°	1646.5	1606.7	1471.2	1319.2	1195.0	1104.0	1029.4	975.2	926.3	855.6	790.1
52.5°	1514.1	1492.9	1378.5	1233.1	1113.1	1023.9	960.3	911.4	862.0	803.2	742.0
55°	1312.4	1323.7	1226.6	1101.0	988.1	912.9	854.9	814.3	772.1	722.5	675.0
57.5°	1106.3	1147.5	1082.3	971.9	866.2	796.6	753.0	718.8	683.4	642.2	601.7
60°	982.8	1017.4	980.5	883.4	790.9	726.2	685.6	659.2	623.9	586.3	555.3
62.5°	862.4	899.5	877.6	799.2	713.2	657.6	621.7	597.2	570.9	538.1	506.1
65°	711.1	735.2	724.7	670.5	609.5	562.1	529.0	511.0	486.9	462.8	434.2
67.5°	544.7	591.2	585.0	556.3	503.6	466.6	444.9	429.0	407.0	389.1	369.7
70°	447.8	490.7	489.9	466.6	438.0	403.3	388.3	374.8	355.2	337.9	322.1
72.5°	366.5	405.8	411.6	393.7	374.2	348.0	333.6	324.2	305.2	293.3	280.5
75°	256.7	285.2	292.8	292.8	283.7	270.1	257.4	251.4	237.8	227.2	219.7
77.5°	168.2	186.3	198.0	200.8	202.2	197.7	187.1	182.9	172.5	168.7	161.5
80°	118.9	130.9	144.5	149.0	152.8	151.3	146.8	143.7	133.9	130.2	127.1
82.5°	82.2	88.8	99.9	109.9	108.8	112.7	108.8	106.4	99.1	97.6	94.6
85°	42.9	43.6	45.1	51.9	55.7	57.2	58.0	56.5	54.2	54.2	48.9
87.5°	18.9	17.9	18.7	18.2	18.2	20.0	21.2	21.2	20.0	18.8	17.5
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°	45.3	43.8	42.3	39.9	36.4	33.0	29.6	26.2	29.6	33.0	36.4
95°	89.1	87.2	85.3	83.1	80.7	78.2	75.8	73.3	75.8	78.2	80.7
97.5°	142.5	140.3	138.0	135.9	133.9	132.1	130.1	128.1	130.1	132.1	133.9
100°	182.1	179.6	177.2	175.5	174.4	173.3	172.2	171.2	172.2	173.3	174.4
102.5°	223.7	221.4	219.1	217.8	217.4	217.0	216.6	216.1	216.6	217.0	217.4
105°	288.8	287.7	286.5	285.9	285.6	285.4	285.1	284.8	285.1	285.4	285.6
107.5°	358.8	358.6	358.4	358.3	357.9	357.6	357.2	356.9	357.2	357.6	357.9
110°	407.6	407.8	408.1	408.0	407.5	406.9	406.3	405.9	406.3	406.9	407.5





TEST NUMBER: P333108-830

CATALOG NUMBER: S124RDIW-S1195D1340U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	455.9	456.5	456.9	457.1	457.0	456.9	456.8	456.7	456.8	456.9	457.0
115°	531.6	532.2	532.7	532.9	532.9	532.9	532.9	532.9	532.9	532.9	532.9
117.5°	604.8	605.2	605.6	605.7	605.5	605.3	605.0	604.8	605.0	605.3	605.5
120°	655.6	656.4	657.2	657.0	656.0	654.9	653.8	652.7	653.8	654.9	656.0
122.5°	703.6	704.0	704.4	704.4	703.9	703.5	703.0	702.6	703.0	703.5	703.9
125°	775.5	775.8	776.1	776.2	776.2	776.2	776.2	776.2	776.2	776.2	776.2
127.5°	845.6	845.9	846.4	846.2	845.4	844.6	843.8	842.9	843.8	844.6	845.4
130°	893.5	893.5	893.5	893.2	892.3	891.6	890.7	889.9	890.7	891.6	892.3
132.5°	939.9	940.2	940.4	940.2	939.6	939.0	938.4	937.8	938.4	939.0	939.6
135°	1008.4	1008.4	1008.4	1007.7	1006.0	1004.4	1002.8	1001.1	1002.8	1004.4	1006.0
137.5°	1074.6	1074.1	1073.7	1073.1	1072.3	1071.6	1070.8	1070.1	1070.8	1071.6	1072.3
140°	1118.4	1118.4	1118.4	1118.2	1117.7	1117.1	1116.5	1116.1	1116.5	1117.1	1117.7
142.5°	1160.0	1160.2	1160.4	1160.3	1159.7	1159.1	1158.6	1158.1	1158.6	1159.1	1159.7
145°	1221.8	1221.5	1221.3	1220.6	1219.6	1218.4	1217.4	1216.3	1217.4	1218.4	1219.6
147.5°	1279.3	1279.5	1279.7	1279.1	1277.9	1276.6	1275.3	1273.9	1275.3	1276.6	1277.9
150°	1314.0	1314.0	1314.0	1313.5	1312.4	1311.4	1310.2	1309.2	1310.2	1311.4	1312.4
152.5°	1345.9	1345.7	1345.5	1345.0	1344.3	1343.7	1343.0	1342.4	1343.0	1343.7	1344.3
155°	1392.8	1393.1	1393.4	1393.5	1393.5	1393.5	1393.5	1393.5	1393.5	1393.5	1393.5
157.5°	1434.2	1434.3	1434.3	1434.5	1435.0	1435.6	1436.1	1436.5	1436.1	1435.6	1435.0
160°	1460.1	1460.3	1460.6	1460.8	1461.1	1461.4	1461.7	1462.0	1461.7	1461.4	1461.1
162.5°	1481.6	1481.9	1482.1	1482.6	1483.3	1484.0	1484.7	1485.4	1484.7	1484.0	1483.3
165°	1511.9	1512.5	1513.1	1513.7	1514.5	1515.3	1516.2	1516.9	1516.2	1515.3	1514.5
167.5°	1536.2	1536.2	1536.1	1536.6	1537.8	1538.9	1540.0	1541.2	1540.0	1538.9	1537.8
170°	1549.4	1549.2	1548.9	1549.4	1550.8	1552.2	1553.5	1554.8	1553.5	1552.2	1550.8
172.5°	1559.6	1559.6	1559.5	1560.1	1561.2	1562.4	1563.5	1564.6	1563.5	1562.4	1561.2
175°	1571.3	1571.6	1571.8	1572.6	1574.0	1575.4	1576.7	1578.1	1576.7	1575.4	1574.0
177.5°	1577.6	1577.6	1577.6	1578.1	1579.2	1580.3	1581.4	1582.4	1581.4	1580.3	1579.2
180°	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5



TEST NUMBER: P333108-830

CATALOG NUMBER: S124RDIW-S1195D1340U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1834.1	1828.1	1820.2	1811.2	1800.4	1790.7	1786.5	1790.2	1792.0	1787.2	1786.5
5°	1778.2	1759.4	1744.4	1721.8	1703.7	1688.7	1678.2	1673.7	1675.2	1663.1	1660.1
7.5°	1715.5	1693.2	1668.5	1641.7	1616.7	1594.6	1583.0	1576.7	1564.0	1558.5	1549.4
10°	1675.2	1645.0	1621.0	1589.3	1560.8	1534.5	1521.6	1511.1	1498.3	1492.2	1479.5
12.5°	1633.6	1598.6	1572.2	1539.4	1510.1	1478.5	1466.2	1446.7	1426.6	1414.0	1397.6
15°	1575.1	1533.0	1500.5	1461.4	1426.8	1390.7	1358.3	1322.2	1308.6	1280.1	1263.5
17.5°	1506.6	1463.9	1423.8	1371.3	1317.9	1273.0	1238.5	1203.9	1183.2	1164.9	1156.5
20°	1461.4	1422.3	1366.6	1305.6	1246.2	1196.6	1168.7	1146.1	1123.5	1110.8	1101.7
22.5°	1418.7	1368.7	1304.0	1238.2	1178.7	1139.9	1116.3	1093.2	1074.8	1062.6	1050.6
25°	1347.1	1281.6	1213.1	1137.8	1097.2	1063.4	1037.7	1018.9	1007.7	991.8	985.8
27.5°	1273.5	1194.1	1118.6	1068.0	1025.7	994.7	972.4	958.3	944.0	933.9	926.0
30°	1216.8	1136.3	1068.6	1020.4	977.5	952.0	933.9	917.4	906.1	897.8	891.7
32.5°	1160.8	1080.3	1023.4	971.7	937.8	912.9	893.5	881.2	872.3	861.7	858.0
35°	1079.9	1008.4	958.8	912.1	877.4	854.9	839.8	827.1	819.5	816.5	814.3
37.5°	1002.1	943.5	890.1	851.9	821.0	803.2	785.5	779.2	774.0	768.6	771.1
40°	952.7	897.8	850.4	809.7	784.9	765.3	754.8	747.2	742.7	742.7	742.7
42.5°	909.9	856.2	810.0	773.6	748.8	732.3	720.5	714.2	712.7	712.1	715.7
45°	843.6	793.9	747.2	717.2	696.1	679.6	672.8	667.5	667.5	670.5	671.3
47.5°	777.8	731.3	693.8	660.2	640.8	630.5	624.6	621.9	622.2	625.2	628.7
50°	737.4	691.5	654.7	624.6	606.5	596.7	591.4	590.0	591.4	591.4	596.7
52.5°	693.5	652.4	616.1	590.9	570.4	561.3	558.4	556.3	557.1	559.6	561.8
55°	629.1	592.2	557.6	533.6	518.5	512.5	505.7	506.4	504.9	506.4	506.4
57.5°	564.6	531.4	499.3	480.1	466.8	458.2	450.7	452.9	450.6	450.3	449.1
60°	523.0	486.9	461.3	444.0	429.0	421.4	414.6	416.1	413.9	412.4	409.3
62.5°	477.9	447.8	423.4	406.7	394.6	385.9	379.1	377.6	372.4	367.2	360.6
65°	412.4	387.6	365.7	350.0	338.7	331.9	326.6	322.1	310.8	298.8	292.8
67.5°	348.7	330.8	310.5	297.1	287.9	279.1	269.0	261.3	250.7	244.1	240.3
70°	307.7	290.5	273.1	260.3	250.6	242.3	231.0	225.7	218.2	215.2	211.5
72.5°	268.6	252.5	236.5	224.9	214.4	208.0	199.2	193.9	190.6	189.4	185.6
75°	209.2	196.4	184.4	173.8	165.6	161.1	157.3	153.5	152.0	145.2	141.5
77.5°	152.6	144.2	136.7	129.1	123.3	120.3	113.0	108.7	106.1	102.9	102.2
80°	118.9	112.9	105.4	100.9	92.6	89.5	86.5	85.8	85.0	84.3	83.5
82.5°	89.4	83.4	75.9	73.1	70.9	69.1	67.3	66.5	65.8	66.3	66.1
85°	45.1	42.1	42.1	41.4	40.6	39.9	39.1	39.1	38.4	39.1	38.4
87.5°	18.2	18.1	18.6	17.7	18.8	19.2	18.9	19.2	20.2	19.3	19.5
90°	15.6	18.2	20.4	22.5	24.7	26.9	28.6	30.2	31.8	33.4	34.5
92.5°	39.9	42.3	43.8	45.3	46.8	48.4	49.4	50.3	51.4	52.3	53.0
95°	83.1	85.3	87.2	89.1	91.0	92.9	93.7	94.5	95.4	96.1	96.6
97.5°	135.9	138.0	140.3	142.5	144.7	146.9	147.9	148.9	149.9	150.8	151.4
100°	175.5	177.2	179.6	182.1	184.5	187.0	187.6	188.1	188.7	189.2	189.5
102.5°	217.8	219.1	221.4	223.7	225.8	228.1	228.8	229.6	230.4	231.1	231.6
105°	285.9	286.5	287.7	288.8	289.8	291.0	291.7	292.6	293.4	294.2	295.0
107.5°	358.3	358.4	358.6	358.8	359.0	359.1	359.9	360.6	361.4	362.2	362.5
110°	408.0	408.1	407.8	407.6	407.4	407.1	406.5	406.0	405.4	404.9	405.0



TEST NUMBER: P333108-830

CATALOG NUMBER: S124RDIW-S1195D1340U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	457.1	456.9	456.5	455.9	455.4	455.0	454.9	454.8	454.7	454.5	454.6
115°	532.9	532.7	532.2	531.6	531.0	530.5	530.3	530.0	529.7	529.4	529.1
117.5°	605.7	605.6	605.2	604.8	604.5	604.1	603.1	602.3	601.3	600.4	599.6
120°	657.0	657.2	656.4	655.6	654.8	653.9	652.6	651.3	649.9	648.6	648.1
122.5°	704.4	704.4	704.0	703.6	703.2	702.9	701.9	701.0	700.1	699.2	698.2
125°	776.2	776.1	775.8	775.5	775.2	775.0	774.4	773.9	773.4	772.8	772.2
127.5°	846.2	846.4	845.9	845.6	845.1	844.6	844.1	843.6	843.0	842.4	842.0
130°	893.2	893.5	893.5	893.5	893.5	893.5	893.0	892.5	891.9	891.4	890.6
132.5°	940.2	940.4	940.2	939.9	939.7	939.5	939.0	938.4	937.9	937.4	936.9
135°	1007.7	1008.4	1008.4	1008.4	1008.4	1008.4	1008.0	1007.4	1006.8	1006.3	1005.6
137.5°	1073.1	1073.7	1074.1	1074.6	1075.0	1075.4	1074.7	1074.0	1073.4	1072.6	1072.3
140°	1118.2	1118.4	1118.4	1118.4	1118.4	1118.4	1118.2	1117.9	1117.7	1117.4	1117.1
142.5°	1160.3	1160.4	1160.2	1160.0	1159.8	1159.5	1159.5	1159.4	1159.4	1159.3	1159.2
145°	1220.6	1221.3	1221.5	1221.8	1222.1	1222.4	1222.1	1221.8	1221.5	1221.3	1220.8
147.5°	1279.1	1279.7	1279.5	1279.3	1279.0	1278.8	1278.7	1278.4	1278.2	1278.0	1277.7
150°	1313.5	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1313.9
152.5°	1345.0	1345.5	1345.7	1345.9	1346.1	1346.3	1347.0	1347.6	1348.3	1349.0	1348.9
155°	1393.5	1393.4	1393.1	1392.8	1392.5	1392.3	1393.4	1394.5	1395.5	1396.7	1396.7
157.5°	1434.5	1434.3	1434.3	1434.2	1434.2	1434.1	1434.9	1435.7	1436.5	1437.4	1437.3
160°	1460.8	1460.6	1460.3	1460.1	1459.8	1459.5	1460.3	1461.1	1462.0	1462.7	1462.4
162.5°	1482.6	1482.1	1481.9	1481.6	1481.3	1481.0	1482.5	1483.9	1485.4	1486.9	1487.0
165°	1513.7	1513.1	1512.5	1511.9	1511.4	1510.8	1512.5	1514.1	1515.7	1517.4	1517.7
167.5°	1536.6	1536.1	1536.2	1536.2	1536.3	1536.3	1537.9	1539.5	1541.2	1542.8	1542.8
170°	1549.4	1548.9	1549.2	1549.4	1549.7	1549.9	1551.6	1553.2	1554.8	1556.5	1556.3
172.5°	1560.1	1559.5	1559.6	1559.6	1559.7	1559.7	1561.6	1563.4	1565.3	1567.2	1567.1
175°	1572.6	1571.8	1571.6	1571.3	1571.0	1570.7	1572.6	1574.5	1576.4	1578.4	1578.4
177.5°	1578.1	1577.6	1577.6	1577.6	1577.6	1577.6	1579.1	1580.6	1582.2	1583.7	1583.6
180°	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5



TEST NUMBER: P333108-830

CATALOG NUMBER: S124RDIW-S1195D1340U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1782.9	1784.1	1779.9	1778.7	1779.9	1784.1	1782.9	1786.5	1787.2	1792.0	1790.2
5°	1654.1	1652.6	1648.8	1649.5	1648.8	1652.6	1654.1	1660.1	1663.1	1675.2	1673.7
7.5°	1543.9	1538.0	1539.6	1533.7	1539.6	1538.0	1543.9	1549.4	1558.5	1564.0	1576.7
10°	1476.5	1468.2	1461.4	1455.4	1461.4	1468.2	1476.5	1479.5	1492.2	1498.3	1511.1
12.5°	1384.4	1377.2	1368.1	1369.9	1368.1	1377.2	1384.4	1397.6	1414.0	1426.6	1446.7
15°	1253.7	1242.5	1224.4	1226.6	1224.4	1242.5	1253.7	1263.5	1280.1	1308.6	1322.2
17.5°	1143.1	1143.2	1135.0	1136.9	1135.0	1143.2	1143.1	1156.5	1164.9	1183.2	1203.9
20°	1085.9	1080.6	1081.4	1079.1	1081.4	1080.6	1085.9	1101.7	1110.8	1123.5	1146.1
22.5°	1046.1	1039.7	1034.4	1029.7	1034.4	1039.7	1046.1	1050.6	1062.6	1074.8	1093.2
25°	979.0	974.5	967.8	966.3	967.8	974.5	979.0	985.8	991.8	1007.7	1018.9
27.5°	920.0	919.2	916.4	912.9	916.4	919.2	920.0	926.0	933.9	944.0	958.3
30°	885.7	884.2	882.7	880.4	882.7	884.2	885.7	891.7	897.8	906.1	917.4
32.5°	855.1	854.1	852.6	852.8	852.6	854.1	855.1	858.0	861.7	872.3	881.2
35°	811.2	810.5	809.0	808.2	809.0	810.5	811.2	814.3	816.5	819.5	827.1
37.5°	770.3	772.2	771.4	771.2	771.4	772.2	770.3	771.1	768.6	774.0	779.2
40°	742.0	742.7	744.2	743.5	744.2	742.7	742.0	742.7	742.7	742.7	747.2
42.5°	718.5	718.7	720.8	718.2	720.8	718.7	718.5	715.7	712.1	712.7	714.2
45°	676.6	681.1	680.3	680.3	680.3	681.1	676.6	671.3	670.5	667.5	667.5
47.5°	630.7	634.5	635.6	635.5	635.6	634.5	630.7	628.7	625.2	622.2	621.9
50°	600.5	599.0	601.2	600.5	601.2	599.0	600.5	596.7	591.4	591.4	590.0
52.5°	563.8	564.1	563.9	563.2	563.9	564.1	563.8	561.8	559.6	557.1	556.3
55°	507.2	507.9	506.4	507.2	506.4	507.9	507.2	506.4	506.4	504.9	506.4
57.5°	445.8	442.1	443.7	441.9	443.7	442.1	445.8	449.1	450.3	450.6	452.9
60°	401.9	395.9	394.4	391.3	394.4	395.9	401.9	409.3	412.4	413.9	416.1
62.5°	352.5	348.3	343.2	345.5	343.2	348.3	352.5	360.6	367.2	372.4	377.6
65°	286.7	283.7	281.4	284.5	281.4	283.7	286.7	292.8	298.8	310.8	322.1
67.5°	237.3	235.7	235.7	234.2	235.7	235.7	237.3	240.3	244.1	250.7	261.3
70°	211.5	209.2	209.2	207.7	209.2	209.2	211.5	211.5	215.2	218.2	225.7
72.5°	184.9	182.8	183.3	182.4	183.3	182.8	184.9	185.6	189.4	190.6	193.9
75°	137.0	133.2	133.2	133.9	133.2	133.2	137.0	141.5	145.2	152.0	153.5
77.5°	102.2	101.4	102.5	101.1	102.5	101.4	102.2	102.2	102.9	106.1	108.7
80°	83.5	82.8	82.0	84.3	82.0	82.8	83.5	83.5	84.3	85.0	85.8
82.5°	64.8	64.8	64.6	67.4	64.6	64.8	64.8	66.1	66.3	65.8	66.5
85°	39.1	37.6	39.1	37.6	39.1	37.6	39.1	38.4	39.1	38.4	39.1
87.5°	20.8	20.4	19.9	20.5	19.9	20.4	20.8	19.5	19.3	20.2	19.2
90°	35.1	35.6	36.1	36.7	36.1	35.6	35.1	34.5	33.4	31.8	30.2
92.5°	53.3	53.6	53.9	54.3	53.9	53.6	53.3	53.0	52.3	51.4	50.3
95°	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.1	95.4	94.5
97.5°	151.4	151.4	151.4	151.4	151.4	151.4	151.4	151.4	150.8	149.9	148.9
100°	189.5	189.5	189.5	189.5	189.5	189.5	189.5	189.5	189.2	188.7	188.1
102.5°	231.9	232.1	232.2	232.5	232.2	232.1	231.9	231.6	231.1	230.4	229.6
105°	295.8	296.6	297.5	298.2	297.5	296.6	295.8	295.0	294.2	293.4	292.6
107.5°	362.5	362.4	362.4	362.3	362.4	362.4	362.5	362.5	362.2	361.4	360.6
110°	405.9	406.6	407.5	408.3	407.5	406.6	405.9	405.0	404.9	405.4	406.0



TEST NUMBER: P333108-830

CATALOG NUMBER: S124RDIW-S1195D1340U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	454.7	454.9	455.1	455.2	455.1	454.9	454.7	454.6	454.5	454.7	454.8
115°	528.9	528.6	528.3	528.1	528.3	528.6	528.9	529.1	529.4	529.7	530.0
117.5°	599.1	598.6	598.0	597.5	598.0	598.6	599.1	599.6	600.4	601.3	602.3
120°	648.7	649.2	649.8	650.3	649.8	649.2	648.7	648.1	648.6	649.9	651.3
122.5°	697.2	696.3	695.3	694.3	695.3	696.3	697.2	698.2	699.2	700.1	701.0
125°	771.8	771.2	770.6	770.1	770.6	771.2	771.8	772.2	772.8	773.4	773.9
127.5°	841.6	841.1	840.7	840.3	840.7	841.1	841.6	842.0	842.4	843.0	843.6
130°	889.5	888.3	887.3	886.2	887.3	888.3	889.5	890.6	891.4	891.9	892.5
132.5°	936.4	935.9	935.6	935.1	935.6	935.9	936.4	936.9	937.4	937.9	938.4
135°	1004.8	1004.0	1003.1	1002.3	1003.1	1004.0	1004.8	1005.6	1006.3	1006.8	1007.4
137.5°	1072.5	1072.7	1072.8	1073.0	1072.8	1072.7	1072.5	1072.3	1072.6	1073.4	1074.0
140°	1116.8	1116.5	1116.3	1116.1	1116.3	1116.5	1116.8	1117.1	1117.4	1117.7	1117.9
142.5°	1159.2	1159.1	1159.1	1159.0	1159.1	1159.1	1159.2	1159.2	1159.3	1159.4	1159.4
145°	1219.9	1219.1	1218.3	1217.5	1218.3	1219.1	1219.9	1220.8	1221.3	1221.5	1221.8
147.5°	1277.4	1277.1	1277.0	1276.7	1277.0	1277.1	1277.4	1277.7	1278.0	1278.2	1278.4
150°	1313.6	1313.3	1313.1	1312.9	1313.1	1313.3	1313.6	1313.9	1314.0	1314.0	1314.0
152.5°	1348.2	1347.5	1346.8	1346.0	1346.8	1347.5	1348.2	1348.9	1349.0	1348.3	1347.6
155°	1395.5	1394.5	1393.4	1392.3	1393.4	1394.5	1395.5	1396.7	1396.7	1395.5	1394.5
157.5°	1436.3	1435.4	1434.5	1433.6	1434.5	1435.4	1436.3	1437.3	1437.4	1436.5	1435.7
160°	1461.1	1459.8	1458.4	1457.1	1458.4	1459.8	1461.1	1462.4	1462.7	1462.0	1461.1
162.5°	1485.5	1484.2	1482.9	1481.5	1482.9	1484.2	1485.5	1487.0	1486.9	1485.4	1483.9
165°	1516.6	1515.4	1514.4	1513.3	1514.4	1515.4	1516.6	1517.7	1517.4	1515.7	1514.1
167.5°	1541.1	1539.4	1537.8	1536.1	1537.8	1539.4	1541.1	1542.8	1542.8	1541.2	1539.5
170°	1554.4	1552.6	1550.7	1548.8	1550.7	1552.6	1554.4	1556.3	1556.5	1554.8	1553.2
172.5°	1565.2	1563.3	1561.4	1559.5	1561.4	1563.3	1565.2	1567.1	1567.2	1565.3	1563.4
175°	1576.4	1574.5	1572.6	1570.7	1572.6	1574.5	1576.4	1578.4	1578.4	1576.4	1574.5
177.5°	1581.9	1580.1	1578.4	1576.6	1578.4	1580.1	1581.9	1583.6	1583.7	1582.2	1580.6
180°	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1786.5	1790.7	1800.4	1811.2	1820.2	1828.1	1834.1	1842.5	1850.3	1861.1	1871.4
5°	1678.2	1688.7	1703.7	1721.8	1744.4	1759.4	1778.2	1794.8	1818.9	1843.0	1866.3
7.5°	1583.0	1594.6	1616.7	1641.7	1668.5	1693.2	1715.5	1744.6	1776.6	1811.7	1850.8
10°	1521.6	1534.5	1560.8	1589.3	1621.0	1645.0	1675.2	1709.8	1745.9	1788.8	1836.9
12.5°	1466.2	1478.5	1510.1	1539.4	1572.2	1598.6	1633.6	1668.9	1717.0	1763.5	1818.3
15°	1358.3	1390.7	1426.8	1461.4	1500.5	1533.0	1575.1	1611.2	1657.1	1722.6	1785.0
17.5°	1238.5	1273.0	1317.9	1371.3	1423.8	1463.9	1506.6	1551.4	1606.1	1672.9	1745.0
20°	1168.7	1196.6	1246.2	1305.6	1366.6	1422.3	1461.4	1511.1	1567.5	1639.7	1714.3
22.5°	1116.3	1139.9	1178.7	1238.2	1304.0	1368.7	1418.7	1467.7	1530.2	1602.4	1683.6
25°	1037.7	1063.4	1097.2	1137.8	1213.1	1281.6	1347.1	1403.4	1469.7	1541.9	1632.2
27.5°	972.4	994.7	1025.7	1068.0	1118.6	1194.1	1273.5	1337.8	1405.7	1483.3	1573.7
30°	933.9	952.0	977.5	1020.4	1068.6	1136.3	1216.8	1292.1	1360.6	1441.1	1535.2
32.5°	893.5	912.9	937.8	971.7	1023.4	1080.3	1160.8	1243.3	1316.1	1398.4	1490.6
35°	839.8	854.9	877.4	912.1	958.8	1008.4	1079.9	1164.9	1241.7	1329.7	1417.8
37.5°	785.5	803.2	821.0	851.9	890.1	943.5	1002.1	1088.9	1173.9	1254.3	1340.3
40°	754.8	765.3	784.9	809.7	850.4	897.8	952.7	1037.7	1122.8	1202.6	1289.1
42.5°	720.5	732.3	748.8	773.6	810.0	856.2	909.9	983.5	1072.2	1149.6	1228.3
45°	672.8	679.6	696.1	717.2	747.2	793.9	843.6	909.1	992.6	1066.3	1135.6
47.5°	624.6	630.5	640.8	660.2	693.8	731.3	777.8	836.5	909.8	983.5	1042.1
50°	591.4	596.7	606.5	624.6	654.7	691.5	737.4	790.1	855.6	926.3	975.2
52.5°	558.4	561.3	570.4	590.9	616.1	652.4	693.5	742.0	803.2	862.0	911.4
55°	505.7	512.5	518.5	533.6	557.6	592.2	629.1	675.0	722.5	772.1	814.3
57.5°	450.7	458.2	466.8	480.1	499.3	531.4	564.6	601.7	642.2	683.4	718.8
60°	414.6	421.4	429.0	444.0	461.3	486.9	523.0	555.3	586.3	623.9	659.2
62.5°	379.1	385.9	394.6	406.7	423.4	447.8	477.9	506.1	538.1	570.9	597.2
65°	326.6	331.9	338.7	350.0	365.7	387.6	412.4	434.2	462.8	486.9	511.0
67.5°	269.0	279.1	287.9	297.1	310.5	330.8	348.7	369.7	389.1	407.0	429.0
70°	231.0	242.3	250.6	260.3	273.1	290.5	307.7	322.1	337.9	355.2	374.8
72.5°	199.2	208.0	214.4	224.9	236.5	252.5	268.6	280.5	293.3	305.2	324.2
75°	157.3	161.1	165.6	173.8	184.4	196.4	209.2	219.7	227.2	237.8	251.4
77.5°	113.0	120.3	123.3	129.1	136.7	144.2	152.6	161.5	168.7	172.5	182.9
80°	86.5	89.5	92.6	100.9	105.4	112.9	118.9	127.1	130.2	133.9	143.7
82.5°	67.3	69.1	70.9	73.1	75.9	83.4	89.4	94.6	97.6	99.1	106.4
85°	39.1	39.9	40.6	41.4	42.1	42.1	45.1	48.9	54.2	54.2	56.5
87.5°	18.9	19.2	18.8	17.7	18.6	18.1	18.2	17.5	18.8	20.0	21.2
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°	49.4	48.4	46.8	45.3	43.8	42.3	39.9	36.4	33.0	29.6	26.2
95°	93.7	92.9	91.0	89.1	87.2	85.3	83.1	80.7	78.2	75.8	73.3
97.5°	147.9	146.9	144.7	142.5	140.3	138.0	135.9	133.9	132.1	130.1	128.1
100°	187.6	187.0	184.5	182.1	179.6	177.2	175.5	174.4	173.3	172.2	171.2
102.5°	228.8	228.1	225.8	223.7	221.4	219.1	217.8	217.4	217.0	216.6	216.1
105°	291.7	291.0	289.8	288.8	287.7	286.5	285.9	285.6	285.4	285.1	284.8
107.5°	359.9	359.1	359.0	358.8	358.6	358.4	358.3	357.9	357.6	357.2	356.9
110°	406.5	407.1	407.4	407.6	407.8	408.1	408.0	407.5	406.9	406.3	405.9



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CATALOG NUMBER: S124RDIW-S1195D1340U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	454.9	455.0	455.4	455.9	456.5	456.9	457.1	457.0	456.9	456.8	456.7
115°	530.3	530.5	531.0	531.6	532.2	532.7	532.9	532.9	532.9	532.9	532.9
117.5°	603.1	604.1	604.5	604.8	605.2	605.6	605.7	605.5	605.3	605.0	604.8
120°	652.6	653.9	654.8	655.6	656.4	657.2	657.0	656.0	654.9	653.8	652.7
122.5°	701.9	702.9	703.2	703.6	704.0	704.4	704.4	703.9	703.5	703.0	702.6
125°	774.4	775.0	775.2	775.5	775.8	776.1	776.2	776.2	776.2	776.2	776.2
127.5°	844.1	844.6	845.1	845.6	845.9	846.4	846.2	845.4	844.6	843.8	842.9
130°	893.0	893.5	893.5	893.5	893.5	893.5	893.2	892.3	891.6	890.7	889.9
132.5°	939.0	939.5	939.7	939.9	940.2	940.4	940.2	939.6	939.0	938.4	937.8
135°	1008.0	1008.4	1008.4	1008.4	1008.4	1008.4	1007.7	1006.0	1004.4	1002.8	1001.1
137.5°	1074.7	1075.4	1075.0	1074.6	1074.1	1073.7	1073.1	1072.3	1071.6	1070.8	1070.1
140°	1118.2	1118.4	1118.4	1118.4	1118.4	1118.4	1118.2	1117.7	1117.1	1116.5	1116.1
142.5°	1159.5	1159.5	1159.8	1160.0	1160.2	1160.4	1160.3	1159.7	1159.1	1158.6	1158.1
145°	1222.1	1222.4	1222.1	1221.8	1221.5	1221.3	1220.6	1219.6	1218.4	1217.4	1216.3
147.5°	1278.7	1278.8	1279.0	1279.3	1279.5	1279.7	1279.1	1277.9	1276.6	1275.3	1273.9
150°	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1313.5	1312.4	1311.4	1310.2	1309.2
152.5°	1347.0	1346.3	1346.1	1345.9	1345.7	1345.5	1345.0	1344.3	1343.7	1343.0	1342.4
155°	1393.4	1392.3	1392.5	1392.8	1393.1	1393.4	1393.5	1393.5	1393.5	1393.5	1393.5
157.5°	1434.9	1434.1	1434.2	1434.2	1434.3	1434.3	1434.5	1435.0	1435.6	1436.1	1436.5
160°	1460.3	1459.5	1459.8	1460.1	1460.3	1460.6	1460.8	1461.1	1461.4	1461.7	1462.0
162.5°	1482.5	1481.0	1481.3	1481.6	1481.9	1482.1	1482.6	1483.3	1484.0	1484.7	1485.4
165°	1512.5	1510.8	1511.4	1511.9	1512.5	1513.1	1513.7	1514.5	1515.3	1516.2	1516.9
167.5°	1537.9	1536.3	1536.3	1536.2	1536.2	1536.1	1536.6	1537.8	1538.9	1540.0	1541.2
170°	1551.6	1549.9	1549.7	1549.4	1549.2	1548.9	1549.4	1550.8	1552.2	1553.5	1554.8
172.5°	1561.6	1559.7	1559.7	1559.6	1559.6	1559.5	1560.1	1561.2	1562.4	1563.5	1564.6
175°	1572.6	1570.7	1571.0	1571.3	1571.6	1571.8	1572.6	1574.0	1575.4	1576.7	1578.1
177.5°	1579.1	1577.6	1577.6	1577.6	1577.6	1577.6	1578.1	1579.2	1580.3	1581.4	1582.4
180°	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5



TEST NUMBER: P333108-830

CATALOG NUMBER: S124RDIW-S1195D1340U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1879.2	1884.6	1890.6	1902.1	1911.8	1916.0	1924.4	1930.4	1928.6	1937.0	1951.4
5°	1886.6	1907.0	1930.2	1954.4	1981.4	2004.0	2022.0	2040.1	2054.5	2071.7	2097.3
7.5°	1885.4	1921.6	1960.8	2004.0	2048.4	2086.8	2122.3	2158.4	2190.5	2225.5	2271.4
10°	1880.6	1928.7	1977.6	2034.1	2090.6	2144.0	2192.2	2237.3	2280.2	2326.1	2384.1
12.5°	1875.2	1930.5	1989.7	2057.6	2127.9	2192.2	2248.7	2313.8	2367.5	2426.7	2493.6
15°	1851.2	1925.7	2006.3	2094.3	2178.6	2265.1	2342.6	2422.4	2496.9	2567.7	2651.9
17.5°	1823.8	1909.8	2004.8	2108.8	2210.1	2315.3	2407.3	2507.7	2583.9	2678.9	2757.1
20°	1801.6	1894.1	1995.7	2112.3	2227.5	2344.1	2445.7	2548.1	2633.8	2729.4	2828.8
22.5°	1774.4	1876.0	1986.1	2107.0	2227.5	2354.9	2467.4	2569.2	2675.4	2783.0	2885.4
25°	1730.8	1836.2	1952.9	2085.3	2223.7	2353.9	2474.4	2600.8	2715.2	2831.8	2923.6
27.5°	1677.3	1787.9	1910.8	2047.5	2189.6	2322.9	2464.7	2599.4	2714.5	2826.8	2906.9
30°	1634.5	1751.1	1869.3	2007.8	2155.2	2298.2	2450.2	2584.9	2706.1	2807.0	2852.1
32.5°	1590.5	1701.2	1823.0	1963.2	2114.3	2268.1	2418.9	2556.6	2668.8	2729.3	2730.5
35°	1514.1	1618.0	1744.4	1882.1	2037.1	2204.1	2356.9	2492.4	2560.9	2566.2	2492.4
37.5°	1430.7	1526.0	1645.3	1783.2	1952.9	2119.1	2275.2	2365.5	2388.4	2311.8	2175.4
40°	1371.1	1459.2	1574.3	1715.8	1884.3	2056.0	2198.2	2264.4	2240.3	2116.1	1964.1
42.5°	1308.5	1390.5	1501.5	1641.2	1810.3	1983.7	2104.9	2140.3	2076.5	1933.2	1755.2
45°	1206.4	1281.6	1391.5	1532.2	1694.7	1857.3	1949.1	1931.0	1824.9	1654.8	1455.4
47.5°	1099.9	1172.6	1271.5	1401.7	1568.1	1708.4	1770.6	1716.1	1565.1	1378.0	1215.8
50°	1029.4	1104.0	1195.0	1319.2	1471.2	1606.7	1646.5	1563.8	1395.9	1216.1	1067.1
52.5°	960.3	1023.9	1113.1	1233.1	1378.5	1492.9	1514.1	1418.7	1245.5	1084.2	952.1
55°	854.9	912.9	988.1	1101.0	1226.6	1323.7	1312.4	1189.8	1032.5	894.8	790.9
57.5°	753.0	796.6	866.2	971.9	1082.3	1147.5	1106.3	1001.6	855.1	742.3	654.7
60°	685.6	726.2	790.9	883.4	980.5	1017.4	982.8	869.2	753.3	650.2	576.5
62.5°	621.7	657.6	713.2	799.2	877.6	899.5	862.4	763.2	658.7	570.7	509.6
65°	529.0	562.1	609.5	670.5	724.7	735.2	711.1	609.5	530.6	456.8	414.6
67.5°	444.9	466.6	503.6	556.3	585.0	591.2	544.7	480.9	411.2	365.9	334.1
70°	388.3	403.3	438.0	466.6	489.9	490.7	447.8	396.6	343.2	306.3	283.0
72.5°	333.6	348.0	374.2	393.7	411.6	405.8	366.5	326.1	283.0	255.1	237.8
75°	257.4	270.1	283.7	292.8	292.8	285.2	256.7	226.5	201.7	185.1	179.8
77.5°	187.1	197.7	202.2	200.8	198.0	186.3	168.2	148.5	139.7	131.9	127.9
80°	146.8	151.3	152.8	149.0	144.5	130.9	118.9	110.7	102.4	99.3	97.8
82.5°	108.8	112.7	108.8	109.9	99.9	88.8	82.2	79.4	75.9	74.6	73.1
85°	58.0	57.2	55.7	51.9	45.1	43.6	42.9	42.1	40.6	41.4	39.9
87.5°	21.2	20.0	18.2	18.2	18.7	17.9	18.9	19.4	19.8	19.5	21.1
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°	29.6	33.0	36.4	39.9	42.3	43.8	45.3	46.8	48.4	49.4	50.3
95°	75.8	78.2	80.7	83.1	85.3	87.2	89.1	91.0	92.9	93.7	94.5
97.5°	130.1	132.1	133.9	135.9	138.0	140.3	142.5	144.7	146.9	147.9	148.9
100°	172.2	173.3	174.4	175.5	177.2	179.6	182.1	184.5	187.0	187.6	188.1
102.5°	216.6	217.0	217.4	217.8	219.1	221.4	223.7	225.8	228.1	228.8	229.6
105°	285.1	285.4	285.6	285.9	286.5	287.7	288.8	289.8	291.0	291.7	292.6
107.5°	357.2	357.6	357.9	358.3	358.4	358.6	358.8	359.0	359.1	359.9	360.6
110°	406.3	406.9	407.5	408.0	408.1	407.8	407.6	407.4	407.1	406.5	406.0





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	456.8	456.9	457.0	457.1	456.9	456.5	455.9	455.4	455.0	454.9	454.8
115°	532.9	532.9	532.9	532.9	532.7	532.2	531.6	531.0	530.5	530.3	530.0
117.5°	605.0	605.3	605.5	605.7	605.6	605.2	604.8	604.5	604.1	603.1	602.3
120°	653.8	654.9	656.0	657.0	657.2	656.4	655.6	654.8	653.9	652.6	651.3
122.5°	703.0	703.5	703.9	704.4	704.4	704.0	703.6	703.2	702.9	701.9	701.0
125°	776.2	776.2	776.2	776.2	776.1	775.8	775.5	775.2	775.0	774.4	773.9
127.5°	843.8	844.6	845.4	846.2	846.4	845.9	845.6	845.1	844.6	844.1	843.6
130°	890.7	891.6	892.3	893.2	893.5	893.5	893.5	893.5	893.5	893.0	892.5
132.5°	938.4	939.0	939.6	940.2	940.4	940.2	939.9	939.7	939.5	939.0	938.4
135°	1002.8	1004.4	1006.0	1007.7	1008.4	1008.4	1008.4	1008.4	1008.4	1008.0	1007.4
137.5°	1070.8	1071.6	1072.3	1073.1	1073.7	1074.1	1074.6	1075.0	1075.4	1074.7	1074.0
140°	1116.5	1117.1	1117.7	1118.2	1118.4	1118.4	1118.4	1118.4	1118.4	1118.2	1117.9
142.5°	1158.6	1159.1	1159.7	1160.3	1160.4	1160.2	1160.0	1159.8	1159.5	1159.5	1159.4
145°	1217.4	1218.4	1219.6	1220.6	1221.3	1221.5	1221.8	1222.1	1222.4	1222.1	1221.8
147.5°	1275.3	1276.6	1277.9	1279.1	1279.7	1279.5	1279.3	1279.0	1278.8	1278.7	1278.4
150°	1310.2	1311.4	1312.4	1313.5	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0
152.5°	1343.0	1343.7	1344.3	1345.0	1345.5	1345.7	1345.9	1346.1	1346.3	1347.0	1347.6
155°	1393.5	1393.5	1393.5	1393.5	1393.4	1393.1	1392.8	1392.5	1392.3	1393.4	1394.5
157.5°	1436.1	1435.6	1435.0	1434.5	1434.3	1434.3	1434.2	1434.2	1434.1	1434.9	1435.7
160°	1461.7	1461.4	1461.1	1460.8	1460.6	1460.3	1460.1	1459.8	1459.5	1460.3	1461.1
162.5°	1484.7	1484.0	1483.3	1482.6	1482.1	1481.9	1481.6	1481.3	1481.0	1482.5	1483.9
165°	1516.2	1515.3	1514.5	1513.7	1513.1	1512.5	1511.9	1511.4	1510.8	1512.5	1514.1
167.5°	1540.0	1538.9	1537.8	1536.6	1536.1	1536.2	1536.2	1536.3	1536.3	1537.9	1539.5
170°	1553.5	1552.2	1550.8	1549.4	1548.9	1549.2	1549.4	1549.7	1549.9	1551.6	1553.2
172.5°	1563.5	1562.4	1561.2	1560.1	1559.5	1559.6	1559.6	1559.7	1559.7	1561.6	1563.4
175°	1576.7	1575.4	1574.0	1572.6	1571.8	1571.6	1571.3	1571.0	1570.7	1572.6	1574.5
177.5°	1581.4	1580.3	1579.2	1578.1	1577.6	1577.6	1577.6	1577.6	1577.6	1579.1	1580.6
180°	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1959.3	1961.7	1963.5	1969.5	1970.1	1975.6	1970.1
5°	2121.4	2131.9	2148.5	2165.0	2166.5	2177.1	2158.2
7.5°	2303.2	2327.6	2342.8	2369.6	2380.1	2386.7	2375.9
10°	2428.5	2451.0	2490.9	2510.5	2530.1	2533.0	2524.0
12.5°	2549.5	2585.3	2616.7	2653.7	2652.9	2679.4	2669.7
15°	2710.7	2747.5	2791.2	2832.5	2847.6	2847.6	2859.7
17.5°	2825.6	2893.2	2938.4	2970.9	3006.3	3012.6	3008.3
20°	2903.3	2976.3	3024.4	3066.6	3090.7	3097.5	3097.5
22.5°	2961.1	3023.2	3070.2	3108.1	3128.0	3135.9	3133.6
25°	3001.1	3054.5	3083.2	3094.5	3099.6	3098.2	3083.9
27.5°	2946.3	2943.9	2925.8	2891.2	2865.2	2849.4	2831.3
30°	2841.6	2802.5	2757.3	2707.6	2643.6	2594.7	2579.6
32.5°	2685.7	2597.7	2521.3	2438.5	2369.7	2320.8	2300.4
35°	2384.1	2244.9	2131.2	2031.8	1959.6	1914.5	1899.4
37.5°	2026.1	1891.4	1750.7	1654.4	1594.5	1548.9	1531.8
40°	1798.6	1651.8	1529.2	1438.9	1377.1	1332.8	1332.0
42.5°	1590.8	1450.8	1335.3	1270.3	1203.7	1174.4	1174.2
45°	1302.6	1190.5	1092.7	1041.5	1001.6	977.5	970.7
47.5°	1078.6	985.8	920.7	879.9	847.3	832.0	822.1
50°	952.7	871.5	819.5	784.1	766.1	746.5	745.0
52.5°	847.9	782.3	741.9	713.1	690.2	678.4	678.8
55°	712.7	660.7	632.2	610.3	592.2	583.2	579.5
57.5°	600.4	561.4	540.6	520.6	512.9	505.9	503.9
60°	530.6	504.2	484.7	468.8	457.5	455.2	454.5
62.5°	472.8	445.2	431.7	419.4	411.2	407.7	406.3
65°	389.8	369.5	357.4	347.7	344.7	339.4	338.7
67.5°	314.2	302.1	294.1	287.3	283.2	283.0	283.0
70°	267.9	261.1	254.4	250.6	248.4	246.9	246.9
72.5°	228.2	223.2	217.6	215.7	215.2	213.7	213.1
75°	173.8	168.5	169.3	165.6	162.6	158.8	156.6
77.5°	123.3	119.5	118.8	118.3	115.7	115.3	116.5
80°	95.6	91.8	91.0	91.8	91.0	88.8	88.8
82.5°	72.7	69.6	68.8	68.3	67.6	68.3	67.1
85°	39.1	37.6	37.6	37.6	39.1	38.4	37.6
87.5°	20.2	19.9	20.7	20.3	20.4	19.9	20.5
90°	31.8	33.4	34.5	35.1	35.6	36.1	36.7
92.5°	51.4	52.3	53.0	53.3	53.6	53.9	54.3
95°	95.4	96.1	96.6	96.6	96.6	96.6	96.6
97.5°	149.9	150.8	151.4	151.4	151.4	151.4	151.4
100°	188.7	189.2	189.5	189.5	189.5	189.5	189.5
102.5°	230.4	231.1	231.6	231.9	232.1	232.2	232.5
105°	293.4	294.2	295.0	295.8	296.6	297.5	298.2
107.5°	361.4	362.2	362.5	362.5	362.4	362.4	362.3
110°	405.4	404.9	405.0	405.9	406.6	407.5	408.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	454.7	454.5	454.6	454.7	454.9	455.1	455.2
115°	529.7	529.4	529.1	528.9	528.6	528.3	528.1
117.5°	601.3	600.4	599.6	599.1	598.6	598.0	597.5
120°	649.9	648.6	648.1	648.7	649.2	649.8	650.3
122.5°	700.1	699.2	698.2	697.2	696.3	695.3	694.3
125°	773.4	772.8	772.2	771.8	771.2	770.6	770.1
127.5°	843.0	842.4	842.0	841.6	841.1	840.7	840.3
130°	891.9	891.4	890.6	889.5	888.3	887.3	886.2
132.5°	937.9	937.4	936.9	936.4	935.9	935.6	935.1
135°	1006.8	1006.3	1005.6	1004.8	1004.0	1003.1	1002.3
137.5°	1073.4	1072.6	1072.3	1072.5	1072.7	1072.8	1073.0
140°	1117.7	1117.4	1117.1	1116.8	1116.5	1116.3	1116.1
142.5°	1159.4	1159.3	1159.2	1159.2	1159.1	1159.1	1159.0
145°	1221.5	1221.3	1220.8	1219.9	1219.1	1218.3	1217.5
147.5°	1278.2	1278.0	1277.7	1277.4	1277.1	1277.0	1276.7
150°	1314.0	1314.0	1313.9	1313.6	1313.3	1313.1	1312.9
152.5°	1348.3	1349.0	1348.9	1348.2	1347.5	1346.8	1346.0
155°	1395.5	1396.7	1396.7	1395.5	1394.5	1393.4	1392.3
157.5°	1436.5	1437.4	1437.3	1436.3	1435.4	1434.5	1433.6
160°	1462.0	1462.7	1462.4	1461.1	1459.8	1458.4	1457.1
162.5°	1485.4	1486.9	1487.0	1485.5	1484.2	1482.9	1481.5
165°	1515.7	1517.4	1517.7	1516.6	1515.4	1514.4	1513.3
167.5°	1541.2	1542.8	1542.8	1541.1	1539.4	1537.8	1536.1
170°	1554.8	1556.5	1556.3	1554.4	1552.6	1550.7	1548.8
172.5°	1565.3	1567.2	1567.1	1565.2	1563.3	1561.4	1559.5
175°	1576.4	1578.4	1578.4	1576.4	1574.5	1572.6	1570.7
177.5°	1582.2	1583.7	1583.6	1581.9	1580.1	1578.4	1576.6
180°	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5	1580.5

(END OF REPORT)