

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: P333111-830

Luminaire Tested: **S124RDIW-S1195D1560U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333111-830
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: S124RDIW-S1195D1560U830-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1560 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10605.4 lumens
Efficiency: N/A
Efficacy: 127.9 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

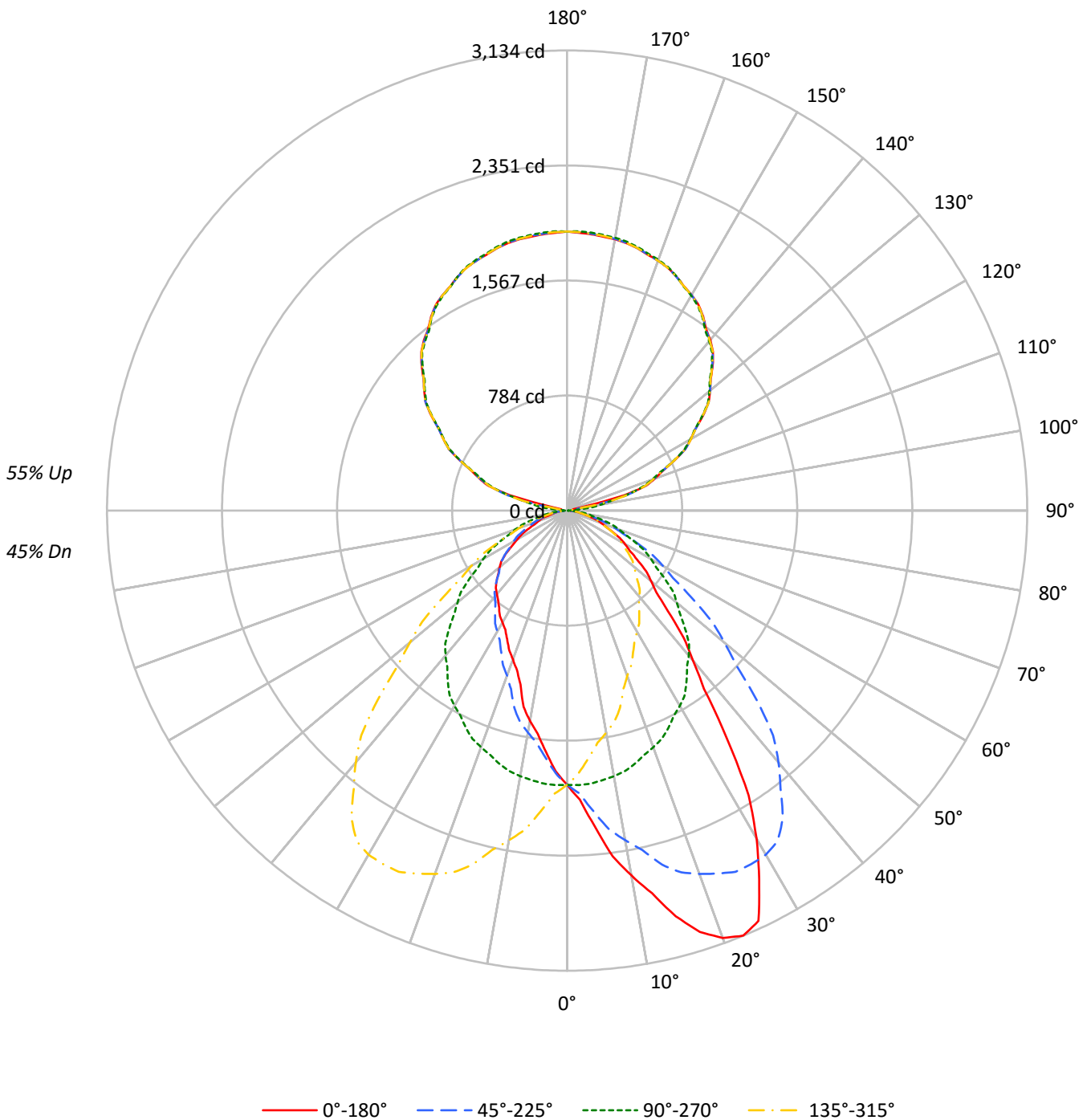
Input Watts (W): 82.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45				
1	97	93	89	86	89	85	82	79	71	69	67	58	56	55	46	45	44	38				
2	89	82	76	71	81	75	70	66	63	59	56	51	49	47	41	39	38	33				
3	81	72	65	59	74	66	60	55	56	51	47	46	42	40	36	34	32	28				
4	74	64	56	50	68	59	52	47	50	45	41	41	37	34	33	30	28	25				
5	68	57	49	43	62	53	46	41	45	39	35	37	33	30	30	27	25	22				
6	63	51	43	38	58	47	40	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	29	50	39	32	28	33	28	24	28	24	21	23	20	18	15				
9	50	38	31	26	46	36	29	25	31	25	22	26	22	19	21	18	16	14				
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13				

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	1.7
10°-20°	545.9	5.1
20°-30°	853.8	8.1
30°-40°	949.2	9.0
40°-50°	842.2	7.9
50°-60°	656.2	6.2
60°-70°	429.6	4.1
70°-80°	211.3	2.0
80°-90°	57.6	0.5
90°-100°	65.0	0.6
100°-110°	414.4	3.9
110°-120°	792.8	7.5
120°-130°	1006.4	9.5
130°-140°	1076.8	10.2
140°-150°	1006.9	9.5
150°-160°	812.0	7.7
160°-170°	523.7	4.9
170°-180°	180.5	1.7
0°-30°	1580.7	14.9
0°-40°	2529.9	23.9
0°-60°	4028.3	38.0
0°-90°	4726.8	44.6
90°-120°	1272.2	12.0
90°-150°	4362.3	41.1
90°-180°	5879.0	55.4
0°-180°	10605.4	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	44
90°	43	4	43	4	43	20
95°	41	78	41	78	41	33
105°	405	428	405	428	405	353
115°	805	799	805	799	805	796
125°	1131	1123	1131	1123	1131	1008
135°	1403	1393	1403	1393	1403	1080
145°	1615	1606	1615	1606	1615	1009
155°	1760	1761	1760	1761	1760	811
165°	1849	1858	1849	1858	1849	522
175°	1889	1900	1889	1900	1889	180
180°	1900	1900	1900	1900	1900	



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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°	21.8	21.0	21.5	21.4	21.9	21.0	21.2	22.1	20.5	20.7	20.2
90°	42.6	42.0	41.4	40.7	40.2	38.8	36.9	35.1	33.2	31.3	28.7
92.5°	39.2	39.1	39.0	38.8	38.7	37.7	35.8	33.9	32.0	30.2	27.6
95°	41.2	40.9	40.6	40.2	40.0	38.8	36.9	35.1	33.2	31.3	30.9
97.5°	39.8	39.5	39.2	38.8	38.5	38.3	38.1	37.9	37.7	37.5	72.8
100°	39.8	39.5	39.2	38.8	38.5	41.1	46.5	51.8	57.2	62.6	106.1
102.5°	40.9	40.9	40.8	40.7	40.7	69.7	127.5	185.5	243.4	301.3	307.0
105°	405.1	416.5	427.8	439.2	450.5	454.9	452.0	449.1	446.3	443.5	441.9
107.5°	564.6	563.4	562.1	561.0	559.8	558.5	557.1	555.7	554.3	552.9	550.7
110°	634.0	633.0	632.1	631.1	630.2	629.3	628.8	628.1	627.5	626.8	624.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	703.3	702.1	700.9	699.7	698.5	698.0	698.0	698.2	698.3	698.5	697.6
115°	804.6	804.6	804.6	804.6	804.6	804.2	803.5	803.0	802.3	801.6	802.0
117.5°	907.4	907.6	907.7	907.8	908.0	908.0	908.1	908.3	908.4	908.5	907.9
120°	972.2	972.9	973.5	974.1	974.8	974.8	974.1	973.5	972.9	972.2	972.5
122.5°	1035.9	1036.5	1037.2	1037.8	1038.4	1038.6	1038.2	1037.8	1037.5	1037.1	1036.6
125°	1131.4	1131.1	1130.8	1130.5	1130.2	1129.5	1128.6	1127.7	1126.7	1125.8	1126.3
127.5°	1215.3	1215.5	1215.8	1216.1	1216.3	1216.5	1216.7	1216.9	1217.1	1217.3	1215.8
130°	1272.1	1272.1	1272.1	1272.1	1272.1	1272.0	1271.7	1271.4	1271.0	1270.7	1269.8
132.5°	1324.5	1324.7	1324.9	1325.2	1325.5	1325.4	1325.1	1324.8	1324.5	1324.2	1323.0
135°	1402.9	1402.3	1401.7	1401.0	1400.4	1399.8	1399.1	1398.5	1397.9	1397.2	1396.0
137.5°	1470.0	1470.2	1470.4	1470.6	1470.7	1470.6	1469.8	1469.1	1468.4	1467.7	1466.3
140°	1516.6	1516.3	1516.0	1515.7	1515.3	1514.8	1513.8	1512.9	1511.9	1510.9	1510.3
142.5°	1555.3	1555.2	1555.2	1555.1	1555.0	1554.6	1554.0	1553.3	1552.6	1551.9	1551.5
145°	1614.7	1614.1	1613.4	1612.8	1612.2	1611.7	1611.4	1611.1	1610.7	1610.4	1610.4
147.5°	1663.9	1663.6	1663.2	1662.9	1662.6	1662.4	1662.1	1661.8	1661.6	1661.3	1661.6
150°	1695.7	1695.4	1695.1	1694.8	1694.5	1694.3	1694.3	1694.3	1694.3	1694.3	1694.6
152.5°	1723.0	1723.2	1723.3	1723.5	1723.7	1723.6	1723.1	1722.6	1722.1	1721.6	1722.1
155°	1759.7	1760.7	1761.6	1762.6	1763.5	1763.3	1762.1	1760.8	1759.5	1758.2	1759.3
157.5°	1790.4	1792.1	1793.7	1795.4	1797.0	1797.0	1795.4	1793.7	1792.1	1790.4	1791.5
160°	1810.8	1812.8	1814.7	1816.6	1818.4	1818.4	1816.6	1814.7	1812.8	1810.8	1811.2
162.5°	1826.7	1828.9	1831.1	1833.2	1835.3	1835.5	1833.6	1831.7	1829.8	1827.9	1828.2
165°	1849.3	1852.1	1854.9	1857.8	1860.6	1860.8	1858.2	1855.7	1853.1	1850.7	1850.7
167.5°	1866.0	1869.2	1872.4	1875.5	1878.7	1878.9	1876.0	1873.3	1870.5	1867.7	1867.9
170°	1876.2	1879.4	1882.5	1885.7	1888.9	1889.2	1886.7	1884.1	1881.6	1879.1	1878.8
172.5°	1881.9	1885.4	1888.8	1892.2	1895.5	1896.0	1893.5	1890.9	1888.4	1885.9	1885.6
175°	1889.0	1892.8	1896.6	1900.4	1904.2	1904.7	1901.9	1898.9	1896.1	1893.3	1893.0
177.5°	1893.6	1896.6	1899.6	1902.7	1905.7	1906.2	1904.2	1902.1	1900.2	1898.1	1897.6
180°	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4



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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°	19.7	18.6	19.3	18.7	18.6	20.3	21.4	21.3	20.2	19.1	18.0
90°	26.2	23.7	21.2	18.2	14.7	11.2	7.7	4.2	7.7	11.2	14.7
92.5°	25.1	22.5	20.0	18.7	18.5	18.3	18.1	17.9	18.1	18.3	18.5
95°	30.6	30.3	30.0	35.3	46.0	56.7	67.4	78.1	67.4	56.7	46.0
97.5°	108.0	143.3	178.5	192.8	186.2	179.4	172.7	166.0	172.7	179.4	186.2
100°	149.7	193.3	236.9	255.8	250.2	244.5	238.8	233.1	238.8	244.5	250.2
102.5°	312.7	318.4	324.0	324.8	320.7	316.5	312.4	308.1	312.4	316.5	320.7
105°	440.4	438.8	437.2	435.5	433.6	431.6	429.7	427.8	429.7	431.6	433.6
107.5°	548.7	546.5	544.3	542.8	541.9	540.9	540.0	538.9	540.0	540.9	541.9
110°	623.0	621.1	619.3	617.8	616.9	616.0	615.0	614.1	615.0	616.0	616.9



TEST NUMBER: P333111-830

CATALOG NUMBER: S124RDIW-S1195D1560U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	696.7	695.8	694.9	693.6	691.9	690.2	688.5	686.8	688.5	690.2	691.9
115°	802.3	802.6	803.0	802.6	801.6	800.7	799.7	798.8	799.7	800.7	801.6
117.5°	907.2	906.4	905.8	904.8	903.5	902.3	901.0	899.8	901.0	902.3	903.5
120°	972.9	973.2	973.5	973.0	971.8	970.5	969.2	968.0	969.2	970.5	971.8
122.5°	1036.1	1035.8	1035.3	1034.7	1033.9	1033.1	1032.4	1031.6	1032.4	1033.1	1033.9
125°	1127.0	1127.7	1128.2	1127.9	1126.7	1125.4	1124.2	1122.9	1124.2	1125.4	1126.7
127.5°	1214.4	1213.0	1211.4	1210.6	1210.2	1209.9	1209.7	1209.3	1209.7	1209.9	1210.2
130°	1268.9	1267.9	1267.0	1266.3	1266.0	1265.6	1265.4	1265.1	1265.4	1265.6	1266.0
132.5°	1321.7	1320.6	1319.4	1318.5	1318.0	1317.4	1316.7	1316.2	1316.7	1317.4	1318.0
135°	1394.7	1393.5	1392.1	1391.7	1392.0	1392.3	1392.6	1393.0	1392.6	1392.3	1392.0
137.5°	1465.0	1463.6	1462.2	1461.4	1461.3	1461.1	1461.0	1460.9	1461.0	1461.1	1461.3
140°	1509.7	1509.0	1508.4	1507.8	1507.1	1506.6	1505.9	1505.2	1505.9	1506.6	1507.1
142.5°	1551.1	1550.8	1550.4	1549.6	1548.5	1547.4	1546.1	1545.0	1546.1	1547.4	1548.5
145°	1610.4	1610.4	1610.4	1610.0	1609.0	1608.1	1607.1	1606.2	1607.1	1608.1	1609.0
147.5°	1662.0	1662.3	1662.6	1661.9	1660.1	1658.3	1656.5	1654.8	1656.5	1658.3	1660.1
150°	1695.0	1695.3	1695.5	1695.1	1693.8	1692.5	1691.3	1690.1	1691.3	1692.5	1693.8
152.5°	1722.7	1723.3	1723.9	1723.6	1722.6	1721.6	1720.6	1719.6	1720.6	1721.6	1722.6
155°	1760.2	1761.1	1762.1	1762.4	1762.1	1761.7	1761.4	1761.1	1761.4	1761.7	1762.1
157.5°	1792.5	1793.6	1794.7	1795.4	1795.5	1795.7	1795.9	1796.1	1795.9	1795.7	1795.5
160°	1811.5	1811.8	1812.1	1812.8	1813.7	1814.7	1815.6	1816.6	1815.6	1814.7	1813.7
162.5°	1828.5	1828.8	1829.2	1829.9	1831.2	1832.3	1833.5	1834.8	1833.5	1832.3	1831.2
165°	1850.7	1850.7	1850.7	1851.4	1853.0	1854.6	1856.1	1857.8	1856.1	1854.6	1853.0
167.5°	1868.1	1868.3	1868.5	1869.3	1871.0	1872.6	1874.3	1875.9	1874.3	1872.6	1871.0
170°	1878.5	1878.1	1877.8	1878.6	1880.5	1882.4	1884.3	1886.2	1884.3	1882.4	1880.5
172.5°	1885.3	1885.0	1884.6	1885.5	1887.3	1889.2	1891.1	1893.0	1891.1	1889.2	1887.3
175°	1892.6	1892.3	1892.1	1892.8	1894.7	1896.6	1898.5	1900.4	1898.5	1896.6	1894.7
177.5°	1897.1	1896.6	1896.1	1896.8	1898.5	1900.3	1902.1	1903.8	1902.1	1900.3	1898.5
180°	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4



TEST NUMBER: P333111-830

CATALOG NUMBER: S124RDIW-S1195D1560U830-4F0-1E-UDD-A

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°	18.7	18.7	19.2	18.5	19.6	20.1	19.9	20.3	21.2	20.5	20.6
90°	18.2	21.2	23.7	26.2	28.7	31.3	33.2	35.1	36.9	38.8	40.2
92.5°	18.7	20.0	22.5	25.1	27.6	30.2	32.0	33.9	35.8	37.7	38.7
95°	35.3	30.0	30.3	30.6	30.9	31.3	33.2	35.1	36.9	38.8	40.0
97.5°	192.8	178.5	143.3	108.0	72.8	37.5	37.7	37.9	38.1	38.3	38.5
100°	255.8	236.9	193.3	149.7	106.1	62.6	57.2	51.8	46.5	41.1	38.5
102.5°	324.8	324.0	318.4	312.7	307.0	301.3	243.4	185.5	127.5	69.7	40.7
105°	435.5	437.2	438.8	440.4	441.9	443.5	446.3	449.1	452.0	454.9	450.5
107.5°	542.8	544.3	546.5	548.7	550.7	552.9	554.3	555.7	557.1	558.5	559.8
110°	617.8	619.3	621.1	623.0	624.9	626.8	627.5	628.1	628.8	629.3	630.2



TEST NUMBER: P333111-830

CATALOG NUMBER: S124RDIW-S1195D1560U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	693.6	694.9	695.8	696.7	697.6	698.5	698.3	698.2	698.0	698.0	698.5
115°	802.6	803.0	802.6	802.3	802.0	801.6	802.3	803.0	803.5	804.2	804.6
117.5°	904.8	905.8	906.4	907.2	907.9	908.5	908.4	908.3	908.1	908.0	908.0
120°	973.0	973.5	973.2	972.9	972.5	972.2	972.9	973.5	974.1	974.8	974.8
122.5°	1034.7	1035.3	1035.8	1036.1	1036.6	1037.1	1037.5	1037.8	1038.2	1038.6	1038.4
125°	1127.9	1128.2	1127.7	1127.0	1126.3	1125.8	1126.7	1127.7	1128.6	1129.5	1130.2
127.5°	1210.6	1211.4	1213.0	1214.4	1215.8	1217.3	1217.1	1216.9	1216.7	1216.5	1216.3
130°	1266.3	1267.0	1267.9	1268.9	1269.8	1270.7	1271.0	1271.4	1271.7	1272.0	1272.1
132.5°	1318.5	1319.4	1320.6	1321.7	1323.0	1324.2	1324.5	1324.8	1325.1	1325.4	1325.5
135°	1391.7	1392.1	1393.5	1394.7	1396.0	1397.2	1397.9	1398.5	1399.1	1399.8	1400.4
137.5°	1461.4	1462.2	1463.6	1465.0	1466.3	1467.7	1468.4	1469.1	1469.8	1470.6	1470.7
140°	1507.8	1508.4	1509.0	1509.7	1510.3	1510.9	1511.9	1512.9	1513.8	1514.8	1515.3
142.5°	1549.6	1550.4	1550.8	1551.1	1551.5	1551.9	1552.6	1553.3	1554.0	1554.6	1555.0
145°	1610.0	1610.4	1610.4	1610.4	1610.4	1610.4	1610.7	1611.1	1611.4	1611.7	1612.2
147.5°	1661.9	1662.6	1662.3	1662.0	1661.6	1661.3	1661.6	1661.8	1662.1	1662.4	1662.6
150°	1695.1	1695.5	1695.3	1695.0	1694.6	1694.3	1694.3	1694.3	1694.3	1694.3	1694.5
152.5°	1723.6	1723.9	1723.3	1722.7	1722.1	1721.6	1722.1	1722.6	1723.1	1723.6	1723.7
155°	1762.4	1762.1	1761.1	1760.2	1759.3	1758.2	1759.5	1760.8	1762.1	1763.3	1763.5
157.5°	1795.4	1794.7	1793.6	1792.5	1791.5	1790.4	1792.1	1793.7	1795.4	1797.0	1797.0
160°	1812.8	1812.1	1811.8	1811.5	1811.2	1810.8	1812.8	1814.7	1816.6	1818.4	1818.4
162.5°	1829.9	1829.2	1828.8	1828.5	1828.2	1827.9	1829.8	1831.7	1833.6	1835.5	1835.3
165°	1851.4	1850.7	1850.7	1850.7	1850.7	1850.7	1853.1	1855.7	1858.2	1860.8	1860.6
167.5°	1869.3	1868.5	1868.3	1868.1	1867.9	1867.7	1870.5	1873.3	1876.0	1878.9	1878.7
170°	1878.6	1877.8	1878.1	1878.5	1878.8	1879.1	1881.6	1884.1	1886.7	1889.2	1888.9
172.5°	1885.5	1884.6	1885.0	1885.3	1885.6	1885.9	1888.4	1890.9	1893.5	1896.0	1895.5
175°	1892.8	1892.1	1892.3	1892.6	1893.0	1893.3	1896.1	1898.9	1901.9	1904.7	1904.2
177.5°	1896.8	1896.1	1896.6	1897.1	1897.6	1898.1	1900.2	1902.1	1904.2	1906.2	1905.7
180°	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4



TEST NUMBER: P333111-830

CATALOG NUMBER: S124RDIW-S1195D1560U830-4F0-1E-UDD-A

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°	22.0	21.5	21.0	21.8	21.0	21.5	22.0	20.6	20.5	21.2	20.3
90°	40.7	41.4	42.0	42.6	42.0	41.4	40.7	40.2	38.8	36.9	35.1
92.5°	38.8	39.0	39.1	39.2	39.1	39.0	38.8	38.7	37.7	35.8	33.9
95°	40.2	40.6	40.9	41.2	40.9	40.6	40.2	40.0	38.8	36.9	35.1
97.5°	38.8	39.2	39.5	39.8	39.5	39.2	38.8	38.5	38.3	38.1	37.9
100°	38.8	39.2	39.5	39.8	39.5	39.2	38.8	38.5	41.1	46.5	51.8
102.5°	40.7	40.8	40.9	40.9	40.9	40.8	40.7	40.7	69.7	127.5	185.5
105°	439.2	427.8	416.5	405.1	416.5	427.8	439.2	450.5	454.9	452.0	449.1
107.5°	561.0	562.1	563.4	564.6	563.4	562.1	561.0	559.8	558.5	557.1	555.7
110°	631.1	632.1	633.0	634.0	633.0	632.1	631.1	630.2	629.3	628.8	628.1



TEST NUMBER: P333111-830

CATALOG NUMBER: S124RDIW-S1195D1560U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	699.7	700.9	702.1	703.3	702.1	700.9	699.7	698.5	698.0	698.0	698.2
115°	804.6	804.6	804.6	804.6	804.6	804.6	804.6	804.6	804.2	803.5	803.0
117.5°	907.8	907.7	907.6	907.4	907.6	907.7	907.8	908.0	908.0	908.1	908.3
120°	974.1	973.5	972.9	972.2	972.9	973.5	974.1	974.8	974.8	974.1	973.5
122.5°	1037.8	1037.2	1036.5	1035.9	1036.5	1037.2	1037.8	1038.4	1038.6	1038.2	1037.8
125°	1130.5	1130.8	1131.1	1131.4	1131.1	1130.8	1130.5	1130.2	1129.5	1128.6	1127.7
127.5°	1216.1	1215.8	1215.5	1215.3	1215.5	1215.8	1216.1	1216.3	1216.5	1216.7	1216.9
130°	1272.1	1272.1	1272.1	1272.1	1272.1	1272.1	1272.1	1272.1	1272.0	1271.7	1271.4
132.5°	1325.2	1324.9	1324.7	1324.5	1324.7	1324.9	1325.2	1325.5	1325.4	1325.1	1324.8
135°	1401.0	1401.7	1402.3	1402.9	1402.3	1401.7	1401.0	1400.4	1399.8	1399.1	1398.5
137.5°	1470.6	1470.4	1470.2	1470.0	1470.2	1470.4	1470.6	1470.7	1470.6	1469.8	1469.1
140°	1515.7	1516.0	1516.3	1516.6	1516.3	1516.0	1515.7	1515.3	1514.8	1513.8	1512.9
142.5°	1555.1	1555.2	1555.2	1555.3	1555.2	1555.2	1555.1	1555.0	1554.6	1554.0	1553.3
145°	1612.8	1613.4	1614.1	1614.7	1614.1	1613.4	1612.8	1612.2	1611.7	1611.4	1611.1
147.5°	1662.9	1663.2	1663.6	1663.9	1663.6	1663.2	1662.9	1662.6	1662.4	1662.1	1661.8
150°	1694.8	1695.1	1695.4	1695.7	1695.4	1695.1	1694.8	1694.5	1694.3	1694.3	1694.3
152.5°	1723.5	1723.3	1723.2	1723.0	1723.2	1723.3	1723.5	1723.7	1723.6	1723.1	1722.6
155°	1762.6	1761.6	1760.7	1759.7	1760.7	1761.6	1762.6	1763.5	1763.3	1762.1	1760.8
157.5°	1795.4	1793.7	1792.1	1790.4	1792.1	1793.7	1795.4	1797.0	1797.0	1795.4	1793.7
160°	1816.6	1814.7	1812.8	1810.8	1812.8	1814.7	1816.6	1818.4	1818.4	1816.6	1814.7
162.5°	1833.2	1831.1	1828.9	1826.7	1828.9	1831.1	1833.2	1835.3	1835.5	1833.6	1831.7
165°	1857.8	1854.9	1852.1	1849.3	1852.1	1854.9	1857.8	1860.6	1860.8	1858.2	1855.7
167.5°	1875.5	1872.4	1869.2	1866.0	1869.2	1872.4	1875.5	1878.7	1878.9	1876.0	1873.3
170°	1885.7	1882.5	1879.4	1876.2	1879.4	1882.5	1885.7	1888.9	1889.2	1886.7	1884.1
172.5°	1892.2	1888.8	1885.4	1881.9	1885.4	1888.8	1892.2	1895.5	1896.0	1893.5	1890.9
175°	1900.4	1896.6	1892.8	1889.0	1892.8	1896.6	1900.4	1904.2	1904.7	1901.9	1898.9
177.5°	1902.7	1899.6	1896.6	1893.6	1896.6	1899.6	1902.7	1905.7	1906.2	1904.2	1902.1
180°	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4



TEST NUMBER: P333111-830

CATALOG NUMBER: S124RDIW-S1195D1560U830-4F0-1E-UDD-A

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°	19.9	20.1	19.6	18.5	19.2	18.7	18.7	18.0	19.1	20.2	21.3
90°	33.2	31.3	28.7	26.2	23.7	21.2	18.2	14.7	11.2	7.7	4.2
92.5°	32.0	30.2	27.6	25.1	22.5	20.0	18.7	18.5	18.3	18.1	17.9
95°	33.2	31.3	30.9	30.6	30.3	30.0	35.3	46.0	56.7	67.4	78.1
97.5°	37.7	37.5	72.8	108.0	143.3	178.5	192.8	186.2	179.4	172.7	166.0
100°	57.2	62.6	106.1	149.7	193.3	236.9	255.8	250.2	244.5	238.8	233.1
102.5°	243.4	301.3	307.0	312.7	318.4	324.0	324.8	320.7	316.5	312.4	308.1
105°	446.3	443.5	441.9	440.4	438.8	437.2	435.5	433.6	431.6	429.7	427.8
107.5°	554.3	552.9	550.7	548.7	546.5	544.3	542.8	541.9	540.9	540.0	538.9
110°	627.5	626.8	624.9	623.0	621.1	619.3	617.8	616.9	616.0	615.0	614.1



TEST NUMBER: P333111-830

CATALOG NUMBER: S124RDIW-S1195D1560U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	698.3	698.5	697.6	696.7	695.8	694.9	693.6	691.9	690.2	688.5	686.8
115°	802.3	801.6	802.0	802.3	802.6	803.0	802.6	801.6	800.7	799.7	798.8
117.5°	908.4	908.5	907.9	907.2	906.4	905.8	904.8	903.5	902.3	901.0	899.8
120°	972.9	972.2	972.5	972.9	973.2	973.5	973.0	971.8	970.5	969.2	968.0
122.5°	1037.5	1037.1	1036.6	1036.1	1035.8	1035.3	1034.7	1033.9	1033.1	1032.4	1031.6
125°	1126.7	1125.8	1126.3	1127.0	1127.7	1128.2	1127.9	1126.7	1125.4	1124.2	1122.9
127.5°	1217.1	1217.3	1215.8	1214.4	1213.0	1211.4	1210.6	1210.2	1209.9	1209.7	1209.3
130°	1271.0	1270.7	1269.8	1268.9	1267.9	1267.0	1266.3	1266.0	1265.6	1265.4	1265.1
132.5°	1324.5	1324.2	1323.0	1321.7	1320.6	1319.4	1318.5	1318.0	1317.4	1316.7	1316.2
135°	1397.9	1397.2	1396.0	1394.7	1393.5	1392.1	1391.7	1392.0	1392.3	1392.6	1393.0
137.5°	1468.4	1467.7	1466.3	1465.0	1463.6	1462.2	1461.4	1461.3	1461.1	1461.0	1460.9
140°	1511.9	1510.9	1510.3	1509.7	1509.0	1508.4	1507.8	1507.1	1506.6	1505.9	1505.2
142.5°	1552.6	1551.9	1551.5	1551.1	1550.8	1550.4	1549.6	1548.5	1547.4	1546.1	1545.0
145°	1610.7	1610.4	1610.4	1610.4	1610.4	1610.4	1610.0	1609.0	1608.1	1607.1	1606.2
147.5°	1661.6	1661.3	1661.6	1662.0	1662.3	1662.6	1661.9	1660.1	1658.3	1656.5	1654.8
150°	1694.3	1694.3	1694.6	1695.0	1695.3	1695.5	1695.1	1693.8	1692.5	1691.3	1690.1
152.5°	1722.1	1721.6	1722.1	1722.7	1723.3	1723.9	1723.6	1722.6	1721.6	1720.6	1719.6
155°	1759.5	1758.2	1759.3	1760.2	1761.1	1762.1	1762.4	1762.1	1761.7	1761.4	1761.1
157.5°	1792.1	1790.4	1791.5	1792.5	1793.6	1794.7	1795.4	1795.5	1795.7	1795.9	1796.1
160°	1812.8	1810.8	1811.2	1811.5	1811.8	1812.1	1812.8	1813.7	1814.7	1815.6	1816.6
162.5°	1829.8	1827.9	1828.2	1828.5	1828.8	1829.2	1829.9	1831.2	1832.3	1833.5	1834.8
165°	1853.1	1850.7	1850.7	1850.7	1850.7	1850.7	1851.4	1853.0	1854.6	1856.1	1857.8
167.5°	1870.5	1867.7	1867.9	1868.1	1868.3	1868.5	1869.3	1871.0	1872.6	1874.3	1875.9
170°	1881.6	1879.1	1878.8	1878.5	1878.1	1877.8	1878.6	1880.5	1882.4	1884.3	1886.2
172.5°	1888.4	1885.9	1885.6	1885.3	1885.0	1884.6	1885.5	1887.3	1889.2	1891.1	1893.0
175°	1896.1	1893.3	1893.0	1892.6	1892.3	1892.1	1892.8	1894.7	1896.6	1898.5	1900.4
177.5°	1900.2	1898.1	1897.6	1897.1	1896.6	1896.1	1896.8	1898.5	1900.3	1902.1	1903.8
180°	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4



TEST NUMBER: P333111-830

CATALOG NUMBER: S124RDIW-S1195D1560U830-4F0-1E-UDD-A

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°	21.4	20.3	18.6	18.7	19.3	18.6	19.7	20.2	20.7	20.5	22.1
90°	7.7	11.2	14.7	18.2	21.2	23.7	26.2	28.7	31.3	33.2	35.1
92.5°	18.1	18.3	18.5	18.7	20.0	22.5	25.1	27.6	30.2	32.0	33.9
95°	67.4	56.7	46.0	35.3	30.0	30.3	30.6	30.9	31.3	33.2	35.1
97.5°	172.7	179.4	186.2	192.8	178.5	143.3	108.0	72.8	37.5	37.7	37.9
100°	238.8	244.5	250.2	255.8	236.9	193.3	149.7	106.1	62.6	57.2	51.8
102.5°	312.4	316.5	320.7	324.8	324.0	318.4	312.7	307.0	301.3	243.4	185.5
105°	429.7	431.6	433.6	435.5	437.2	438.8	440.4	441.9	443.5	446.3	449.1
107.5°	540.0	540.9	541.9	542.8	544.3	546.5	548.7	550.7	552.9	554.3	555.7
110°	615.0	616.0	616.9	617.8	619.3	621.1	623.0	624.9	626.8	627.5	628.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	688.5	690.2	691.9	693.6	694.9	695.8	696.7	697.6	698.5	698.3	698.2
115°	799.7	800.7	801.6	802.6	803.0	802.6	802.3	802.0	801.6	802.3	803.0
117.5°	901.0	902.3	903.5	904.8	905.8	906.4	907.2	907.9	908.5	908.4	908.3
120°	969.2	970.5	971.8	973.0	973.5	973.2	972.9	972.5	972.2	972.9	973.5
122.5°	1032.4	1033.1	1033.9	1034.7	1035.3	1035.8	1036.1	1036.6	1037.1	1037.5	1037.8
125°	1124.2	1125.4	1126.7	1127.9	1128.2	1127.7	1127.0	1126.3	1125.8	1126.7	1127.7
127.5°	1209.7	1209.9	1210.2	1210.6	1211.4	1213.0	1214.4	1215.8	1217.3	1217.1	1216.9
130°	1265.4	1265.6	1266.0	1266.3	1267.0	1267.9	1268.9	1269.8	1270.7	1271.0	1271.4
132.5°	1316.7	1317.4	1318.0	1318.5	1319.4	1320.6	1321.7	1323.0	1324.2	1324.5	1324.8
135°	1392.6	1392.3	1392.0	1391.7	1392.1	1393.5	1394.7	1396.0	1397.2	1397.9	1398.5
137.5°	1461.0	1461.1	1461.3	1461.4	1462.2	1463.6	1465.0	1466.3	1467.7	1468.4	1469.1
140°	1505.9	1506.6	1507.1	1507.8	1508.4	1509.0	1509.7	1510.3	1510.9	1511.9	1512.9
142.5°	1546.1	1547.4	1548.5	1549.6	1550.4	1550.8	1551.1	1551.5	1551.9	1552.6	1553.3
145°	1607.1	1608.1	1609.0	1610.0	1610.4	1610.4	1610.4	1610.4	1610.4	1610.7	1611.1
147.5°	1656.5	1658.3	1660.1	1661.9	1662.6	1662.3	1662.0	1661.6	1661.3	1661.6	1661.8
150°	1691.3	1692.5	1693.8	1695.1	1695.5	1695.3	1695.0	1694.6	1694.3	1694.3	1694.3
152.5°	1720.6	1721.6	1722.6	1723.6	1723.9	1723.3	1722.7	1722.1	1721.6	1722.1	1722.6
155°	1761.4	1761.7	1762.1	1762.4	1762.1	1761.1	1760.2	1759.3	1758.2	1759.5	1760.8
157.5°	1795.9	1795.7	1795.5	1795.4	1794.7	1793.6	1792.5	1791.5	1790.4	1792.1	1793.7
160°	1815.6	1814.7	1813.7	1812.8	1812.1	1811.8	1811.5	1811.2	1810.8	1812.8	1814.7
162.5°	1833.5	1832.3	1831.2	1829.9	1829.2	1828.8	1828.5	1828.2	1827.9	1829.8	1831.7
165°	1856.1	1854.6	1853.0	1851.4	1850.7	1850.7	1850.7	1850.7	1850.7	1853.1	1855.7
167.5°	1874.3	1872.6	1871.0	1869.3	1868.5	1868.3	1868.1	1867.9	1867.7	1870.5	1873.3
170°	1884.3	1882.4	1880.5	1878.6	1877.8	1878.1	1878.5	1878.8	1879.1	1881.6	1884.1
172.5°	1891.1	1889.2	1887.3	1885.5	1884.6	1885.0	1885.3	1885.6	1885.9	1888.4	1890.9
175°	1898.5	1896.6	1894.7	1892.8	1892.1	1892.3	1892.6	1893.0	1893.3	1896.1	1898.9
177.5°	1902.1	1900.3	1898.5	1896.8	1896.1	1896.6	1897.1	1897.6	1898.1	1900.2	1902.1
180°	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4



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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°	21.2	21.0	21.9	21.4	21.5	21.0	21.8
90°	36.9	38.8	40.2	40.7	41.4	42.0	42.6
92.5°	35.8	37.7	38.7	38.8	39.0	39.1	39.2
95°	36.9	38.8	40.0	40.2	40.6	40.9	41.2
97.5°	38.1	38.3	38.5	38.8	39.2	39.5	39.8
100°	46.5	41.1	38.5	38.8	39.2	39.5	39.8
102.5°	127.5	69.7	40.7	40.7	40.8	40.9	40.9
105°	452.0	454.9	450.5	439.2	427.8	416.5	405.1
107.5°	557.1	558.5	559.8	561.0	562.1	563.4	564.6
110°	628.8	629.3	630.2	631.1	632.1	633.0	634.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	698.0	698.0	698.5	699.7	700.9	702.1	703.3
115°	803.5	804.2	804.6	804.6	804.6	804.6	804.6
117.5°	908.1	908.0	908.0	907.8	907.7	907.6	907.4
120°	974.1	974.8	974.8	974.1	973.5	972.9	972.2
122.5°	1038.2	1038.6	1038.4	1037.8	1037.2	1036.5	1035.9
125°	1128.6	1129.5	1130.2	1130.5	1130.8	1131.1	1131.4
127.5°	1216.7	1216.5	1216.3	1216.1	1215.8	1215.5	1215.3
130°	1271.7	1272.0	1272.1	1272.1	1272.1	1272.1	1272.1
132.5°	1325.1	1325.4	1325.5	1325.2	1324.9	1324.7	1324.5
135°	1399.1	1399.8	1400.4	1401.0	1401.7	1402.3	1402.9
137.5°	1469.8	1470.6	1470.7	1470.6	1470.4	1470.2	1470.0
140°	1513.8	1514.8	1515.3	1515.7	1516.0	1516.3	1516.6
142.5°	1554.0	1554.6	1555.0	1555.1	1555.2	1555.2	1555.3
145°	1611.4	1611.7	1612.2	1612.8	1613.4	1614.1	1614.7
147.5°	1662.1	1662.4	1662.6	1662.9	1663.2	1663.6	1663.9
150°	1694.3	1694.3	1694.5	1694.8	1695.1	1695.4	1695.7
152.5°	1723.1	1723.6	1723.7	1723.5	1723.3	1723.2	1723.0
155°	1762.1	1763.3	1763.5	1762.6	1761.6	1760.7	1759.7
157.5°	1795.4	1797.0	1797.0	1795.4	1793.7	1792.1	1790.4
160°	1816.6	1818.4	1818.4	1816.6	1814.7	1812.8	1810.8
162.5°	1833.6	1835.5	1835.3	1833.2	1831.1	1828.9	1826.7
165°	1858.2	1860.8	1860.6	1857.8	1854.9	1852.1	1849.3
167.5°	1876.0	1878.9	1878.7	1875.5	1872.4	1869.2	1866.0
170°	1886.7	1889.2	1888.9	1885.7	1882.5	1879.4	1876.2
172.5°	1893.5	1896.0	1895.5	1892.2	1888.8	1885.4	1881.9
175°	1901.9	1904.7	1904.2	1900.4	1896.6	1892.8	1889.0
177.5°	1904.2	1906.2	1905.7	1902.7	1899.6	1896.6	1893.6
180°	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4	1900.4

(END OF REPORT)