

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: P333092

Luminaire Tested: **S124RDIW-S1020D1560U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333092
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-S1020D1560U835-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1560 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9752.1 lumens
Efficiency: N/A
Efficacy: 127.3 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

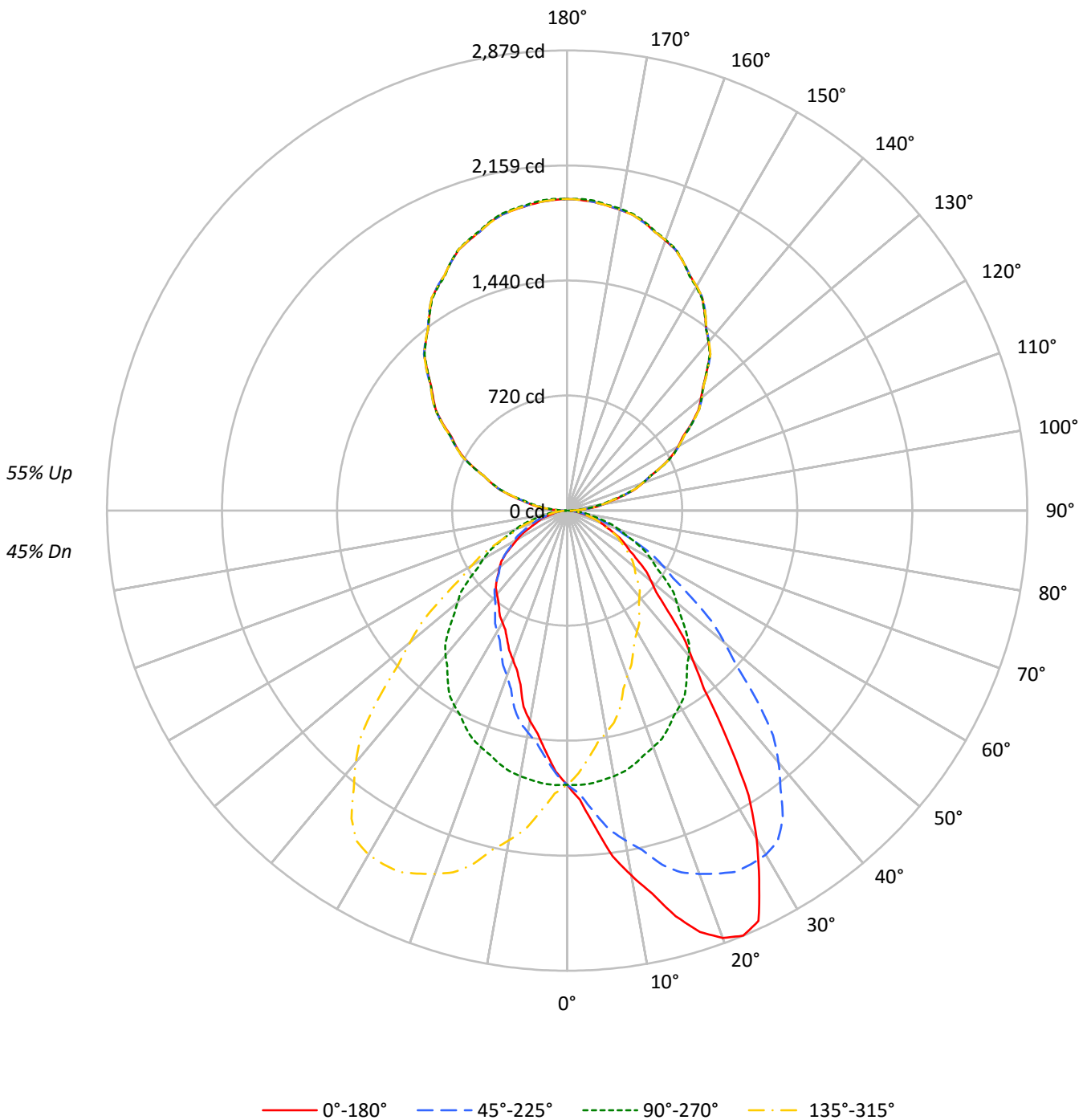
Input Watts (W): 76.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333092

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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	24				
5	68	57	49	43	62	53	46	41	44	39	35	37	33	30	30	27	25	21				
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°	13852	13852	13852	13852
5°	16067	13893	12280	13893
10°	19007	13833	10960	13833
15°	21956	13705	9417	13705
20°	24445	13529	8516	13529
25°	25235	13356	7906	13356
30°	22091	13147	7539	13147
35°	17196	12835	7318	12835
40°	12895	12480	7198	12480
45°	10182	11910	7134	11910
50°	8596	11252	6929	11252
55°	7492	10528	6557	10528
60°	6741	9778	5804	9778
65°	5943	8967	4991	8967
70°	5351	8127	4504	8127
75°	4485	7202	3840	7202
80°	3794	6137	3598	6137
85°	3205	4798	3205	4798



TEST NUMBER: P333092

CATALOG NUMBER: S124RDIW-S1020D1560U835-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.3	1.7
10°-20°	501.5	5.1
20°-30°	784.4	8.0
30°-40°	872.0	8.9
40°-50°	773.6	7.9
50°-60°	602.8	6.2
60°-70°	394.7	4.0
70°-80°	194.1	2.0
80°-90°	53.7	0.6
90°-100°	128.6	1.3
100°-110°	380.9	3.9
110°-120°	646.6	6.6
120°-130°	852.5	8.7
130°-140°	957.5	9.8
140°-150°	940.9	9.6
150°-160°	791.3	8.1
160°-170°	526.5	5.4
170°-180°	184.4	1.9
0°-30°	1452.1	14.9
0°-40°	2324.1	23.8
0°-60°	3700.5	37.9
0°-90°	4343.0	44.5
90°-120°	1156.1	11.9
90°-150°	3906.9	40.1
90°-180°	5409.0	55.5
0°-180°	9752.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1716	1716	1716	1716	1716	
5°	1983	1714	1515	1714	1983	201
15°	2627	1640	1127	1640	2627	747
25°	2833	1499	888	1499	2833	1257
35°	1745	1302	742	1302	1745	1094
45°	892	1043	625	1043	892	706
55°	532	748	466	748	532	484
65°	311	469	261	469	311	313
75°	144	231	123	231	144	158
85°	35	52	35	52	35	40
90°	45	4	45	4	45	24
95°	119	90	119	90	119	124
105°	368	351	368	351	368	388
115°	651	657	651	657	651	644
125°	950	958	950	958	950	847
135°	1236	1235	1236	1235	1236	955
145°	1502	1500	1502	1500	1502	940
155°	1717	1719	1717	1719	1717	791
165°	1867	1871	1867	1871	1867	526
175°	1938	1947	1938	1947	1938	184
180°	1950	1950	1950	1950	1950	



TEST NUMBER: P333092

CATALOG NUMBER: S124RDIW-S1020D1560U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1809.8	1814.8	1809.8	1809.3	1803.8	1802.1	1799.9	1792.7	1779.4	1771.7	1773.3
5°	1982.7	1999.9	1990.3	1988.9	1973.7	1958.5	1948.8	1926.7	1903.2	1887.3	1874.1
7.5°	2182.6	2192.5	2186.5	2176.8	2152.2	2138.2	2115.8	2086.6	2044.5	2012.2	1982.8
10°	2318.6	2326.9	2324.2	2306.2	2288.2	2251.6	2230.8	2190.1	2136.8	2094.7	2055.2
12.5°	2452.5	2461.3	2437.0	2437.8	2403.8	2374.9	2342.0	2290.7	2229.2	2174.8	2125.5
15°	2627.0	2615.9	2615.9	2602.1	2564.0	2524.0	2490.1	2436.2	2358.7	2293.7	2225.3
17.5°	2763.6	2767.4	2761.8	2729.1	2699.3	2657.8	2595.7	2532.8	2460.9	2373.7	2303.7
20°	2845.4	2845.4	2839.2	2817.1	2778.4	2734.1	2667.1	2598.6	2507.4	2419.6	2340.8
22.5°	2878.6	2880.8	2873.5	2855.2	2820.4	2777.2	2720.1	2650.6	2556.6	2457.7	2360.1
25°	2833.0	2846.1	2847.5	2842.6	2832.3	2806.0	2756.9	2685.7	2601.4	2494.2	2389.1
27.5°	2601.0	2617.6	2632.1	2656.0	2687.8	2704.4	2706.6	2670.4	2596.8	2493.7	2387.9
30°	2369.8	2383.6	2428.6	2487.3	2532.9	2574.4	2610.4	2620.0	2578.6	2485.9	2374.6
32.5°	2113.2	2132.0	2176.9	2240.1	2316.1	2386.4	2467.1	2508.3	2507.2	2451.6	2348.6
35°	1744.9	1758.7	1800.2	1866.5	1957.8	2062.2	2190.1	2289.6	2357.3	2352.5	2289.6
37.5°	1407.2	1422.8	1464.7	1519.8	1608.3	1737.5	1861.3	1998.4	2123.7	2194.1	2173.0
40°	1223.6	1224.3	1265.1	1321.8	1404.7	1517.4	1652.2	1804.3	1943.9	2058.0	2080.1
42.5°	1078.7	1078.8	1105.8	1166.9	1226.7	1332.7	1461.4	1612.4	1775.8	1907.6	1966.2
45°	891.8	898.0	920.1	956.8	1003.8	1093.6	1196.6	1337.0	1520.2	1676.4	1773.9
47.5°	755.2	764.3	778.4	808.3	845.7	905.6	990.8	1116.9	1265.9	1437.8	1576.5
50°	684.4	685.8	703.7	720.3	752.8	800.5	875.2	980.3	1117.1	1282.4	1436.5
52.5°	623.6	623.3	634.1	655.1	681.5	718.7	779.0	874.6	996.0	1144.1	1303.2
55°	532.3	535.8	544.1	560.6	580.7	607.0	654.7	726.6	822.0	948.5	1093.0
57.5°	462.9	464.7	471.2	478.2	496.6	515.7	551.5	601.4	681.9	785.5	920.1
60°	417.5	418.2	420.3	430.7	445.2	463.2	487.4	529.5	597.3	692.0	798.5
62.5°	373.3	374.5	377.7	385.3	396.5	409.0	434.3	468.2	524.3	605.2	701.1
65°	311.1	311.8	316.6	319.4	328.4	339.4	358.1	380.9	419.6	487.4	560.0
67.5°	259.9	259.9	260.2	263.9	270.2	277.5	288.7	306.9	336.1	377.7	441.7
70°	226.7	226.7	228.1	230.2	233.7	239.9	246.1	259.9	281.4	315.2	364.3
72.5°	195.8	196.3	197.7	198.1	199.9	205.0	209.6	218.5	234.4	259.9	299.6
75°	143.8	145.9	149.3	152.1	155.5	154.9	159.7	165.2	170.1	185.3	208.1
77.5°	107.0	105.9	106.3	108.7	109.1	109.8	113.2	117.5	121.1	128.3	136.5
80°	81.6	81.6	83.6	84.3	83.6	84.3	87.8	89.9	91.3	94.0	101.6
82.5°	61.7	62.8	62.1	62.8	63.2	63.9	66.8	67.2	68.6	69.7	72.9
85°	34.6	35.3	35.9	34.6	34.6	34.6	35.9	36.6	38.0	37.3	38.7
87.5°	21.2	20.5	20.9	20.8	21.2	20.4	20.6	21.3	19.8	19.9	19.4
90°	45.2	44.6	43.9	43.2	42.6	41.2	39.2	37.2	35.2	33.2	30.5
92.5°	66.9	66.5	66.1	65.7	65.3	64.5	63.3	62.1	60.9	59.7	57.8
95°	119.1	119.1	119.1	119.1	119.1	118.6	117.6	116.6	115.6	114.6	112.3
97.5°	186.7	186.7	186.7	186.7	186.7	186.1	184.9	183.7	182.4	181.2	178.5
100°	233.7	233.7	233.7	233.7	233.7	233.4	232.7	232.0	231.4	230.7	227.7
102.5°	286.8	286.5	286.3	286.0	285.7	285.1	284.2	283.2	282.3	281.4	278.6
105°	367.9	366.9	365.9	364.9	363.9	362.9	361.9	360.9	359.9	358.9	357.5
107.5°	446.9	447.0	447.1	447.1	447.2	446.8	445.8	444.9	443.9	443.0	442.8
110°	503.6	502.6	501.6	500.6	499.6	499.4	500.1	500.8	501.4	502.1	502.4



TEST NUMBER: P333092

CATALOG NUMBER: S124RDIW-S1020D1560U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	561.5	561.3	561.1	560.9	560.7	560.7	560.8	560.9	561.1	561.2	561.8
115°	651.4	651.7	652.1	652.4	652.7	653.1	653.4	653.7	654.1	654.4	655.1
117.5°	737.0	737.7	738.4	739.0	739.7	740.6	741.8	742.9	744.0	745.2	745.6
120°	802.2	801.5	800.8	800.2	799.5	800.0	801.7	803.3	805.0	806.7	807.7
122.5°	856.5	857.7	858.9	860.1	861.3	862.5	863.6	864.7	865.9	867.0	867.5
125°	949.9	950.6	951.3	951.9	952.6	953.3	954.0	954.6	955.3	956.0	956.3
127.5°	1036.5	1037.0	1037.6	1038.1	1038.6	1039.2	1039.9	1040.6	1041.2	1041.9	1042.5
130°	1093.2	1094.5	1095.9	1097.2	1098.5	1099.5	1100.2	1100.9	1101.6	1102.2	1102.2
132.5°	1153.5	1154.0	1154.6	1155.1	1155.6	1156.2	1156.9	1157.6	1158.3	1158.9	1159.2
135°	1236.4	1237.4	1238.4	1239.4	1240.4	1241.3	1242.0	1242.6	1243.3	1244.0	1244.0
137.5°	1323.6	1323.4	1323.2	1323.0	1322.8	1323.1	1324.0	1324.9	1325.7	1326.6	1326.1
140°	1376.7	1377.0	1377.3	1377.7	1378.0	1378.3	1378.7	1379.0	1379.3	1379.7	1379.7
142.5°	1429.7	1429.8	1429.9	1429.9	1430.0	1430.1	1430.1	1430.2	1430.3	1430.3	1430.6
145°	1501.8	1502.8	1503.8	1504.8	1505.8	1506.5	1506.8	1507.2	1507.5	1507.8	1507.5
147.5°	1574.8	1575.1	1575.5	1575.8	1576.1	1576.4	1576.7	1577.0	1577.2	1577.5	1577.8
150°	1619.4	1619.8	1620.1	1620.4	1620.8	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9
152.5°	1660.4	1661.3	1662.2	1663.0	1663.9	1663.9	1663.1	1662.3	1661.5	1660.7	1660.5
155°	1717.4	1718.8	1720.1	1721.4	1722.8	1722.8	1721.4	1720.1	1718.8	1717.4	1717.8
157.5°	1768.4	1769.5	1770.7	1771.8	1772.9	1773.0	1772.0	1771.0	1770.0	1769.0	1769.1
160°	1797.3	1799.0	1800.7	1802.4	1804.0	1804.4	1803.4	1802.4	1801.4	1800.4	1800.7
162.5°	1827.5	1829.2	1830.9	1832.5	1834.2	1834.1	1832.3	1830.5	1828.7	1826.9	1827.2
165°	1866.7	1868.0	1869.4	1870.7	1872.1	1871.7	1869.7	1867.7	1865.7	1863.7	1864.4
167.5°	1894.7	1896.8	1898.9	1901.0	1903.1	1903.1	1901.1	1899.1	1897.1	1895.1	1895.0
170°	1910.4	1912.8	1915.1	1917.5	1919.8	1920.0	1918.0	1916.0	1913.9	1911.9	1911.6
172.5°	1923.7	1926.0	1928.4	1930.7	1933.1	1933.1	1930.8	1928.6	1926.3	1924.0	1923.9
175°	1937.6	1939.9	1942.3	1944.6	1947.0	1947.0	1944.6	1942.3	1939.9	1937.6	1937.9
177.5°	1944.8	1947.0	1949.1	1951.2	1953.4	1953.5	1951.6	1949.8	1947.9	1946.0	1946.0
180°	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6



TEST NUMBER: P333092

CATALOG NUMBER: S124RDIW-S1020D1560U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1767.8	1760.1	1756.2	1747.3	1736.8	1731.3	1726.3	1719.1	1709.7	1699.8	1692.6
5°	1857.5	1840.9	1820.2	1795.3	1773.2	1751.8	1733.1	1714.4	1693.0	1670.9	1648.8
7.5°	1949.6	1917.0	1881.7	1840.9	1801.3	1765.2	1732.0	1700.2	1664.2	1632.0	1602.7
10°	2013.8	1969.5	1920.4	1868.6	1816.7	1771.8	1727.6	1687.5	1643.2	1603.8	1570.6
12.5°	2065.8	2013.8	1954.7	1890.2	1827.8	1773.5	1722.6	1670.3	1620.0	1577.3	1533.0
15°	2152.0	2080.8	2001.3	1923.9	1843.0	1769.0	1700.6	1639.8	1582.4	1522.3	1480.1
17.5°	2211.3	2126.9	2030.2	1937.2	1841.6	1754.4	1675.4	1603.0	1536.8	1475.4	1425.2
20°	2246.7	2153.4	2046.3	1940.5	1833.3	1740.0	1655.0	1574.8	1506.4	1440.0	1388.1
22.5°	2266.6	2163.4	2046.3	1935.5	1824.5	1723.4	1630.1	1546.6	1472.1	1405.7	1348.3
25°	2273.0	2162.4	2042.8	1915.6	1793.9	1686.8	1590.0	1499.4	1416.5	1350.1	1289.3
27.5°	2264.2	2133.9	2011.4	1880.9	1755.4	1642.4	1540.8	1445.7	1362.6	1291.4	1229.0
30°	2250.9	2111.2	1979.9	1844.4	1717.2	1608.7	1501.5	1410.3	1323.8	1249.9	1187.0
32.5°	2222.1	2083.6	1942.3	1803.5	1674.6	1562.8	1461.1	1369.3	1284.6	1209.0	1142.2
35°	2165.2	2024.8	1871.4	1729.0	1602.4	1486.3	1390.9	1302.4	1221.5	1140.7	1070.1
37.5°	2090.1	1946.7	1794.1	1638.1	1511.5	1401.8	1314.3	1231.2	1152.3	1078.4	1000.3
40°	2019.3	1888.6	1731.0	1576.2	1446.2	1340.4	1259.6	1184.2	1104.7	1031.4	953.3
42.5°	1933.6	1822.3	1663.0	1507.6	1379.3	1277.4	1202.0	1128.3	1056.0	985.0	903.5
45°	1790.5	1706.1	1556.8	1407.5	1278.2	1177.3	1108.2	1043.2	979.6	911.8	835.1
47.5°	1626.5	1569.4	1440.5	1287.6	1168.0	1077.2	1010.4	957.3	903.5	835.8	768.5
50°	1512.6	1475.9	1351.5	1211.9	1097.8	1014.1	945.7	895.9	851.0	786.0	725.9
52.5°	1390.9	1371.4	1266.3	1132.8	1022.6	940.6	882.1	837.3	791.8	737.9	681.6
55°	1205.6	1216.0	1126.8	1011.4	907.7	838.6	785.3	748.0	709.3	663.7	620.1
57.5°	1016.2	1054.1	994.2	892.9	795.7	731.8	691.7	660.3	627.8	590.0	552.8
60°	902.8	934.6	900.8	811.6	726.6	667.1	629.8	605.6	573.1	538.5	510.2
62.5°	792.2	826.2	806.2	734.2	655.2	604.1	571.2	548.6	524.4	494.3	464.8
65°	653.3	675.4	665.7	616.0	560.0	516.4	486.0	469.4	447.3	425.2	398.9
67.5°	500.4	543.1	537.4	511.0	462.6	428.6	408.7	394.0	373.9	357.4	339.6
70°	411.3	450.7	450.0	428.6	402.3	370.5	356.7	344.3	326.3	310.4	295.9
72.5°	336.7	372.8	378.1	361.7	343.7	319.7	306.4	297.8	280.4	269.5	257.7
75°	235.7	262.0	268.9	268.9	260.6	248.2	236.4	230.9	218.5	208.8	201.9
77.5°	154.6	171.2	182.0	184.4	185.7	181.5	171.9	168.0	158.4	155.0	148.4
80°	109.2	120.3	132.7	136.9	140.3	139.0	134.8	132.0	123.1	119.6	116.8
82.5°	75.5	81.6	91.8	100.9	100.0	103.6	100.0	97.8	91.0	89.7	87.0
85°	39.4	40.1	41.5	47.7	51.2	52.5	53.2	51.8	49.8	49.8	44.9
87.5°	18.8	17.7	18.3	17.7	17.5	19.0	19.9	19.7	18.8	17.9	16.9
90°	27.8	25.1	22.5	19.3	15.6	11.9	8.2	4.5	8.2	11.9	15.6
92.5°	56.0	54.1	52.2	49.2	44.9	40.7	36.5	32.3	36.5	40.7	44.9
95°	109.9	107.6	105.2	102.5	99.5	96.5	93.5	90.5	93.5	96.5	99.5
97.5°	175.7	173.0	170.3	167.7	165.3	162.8	160.4	158.0	160.4	162.8	165.3
100°	224.7	221.7	218.6	216.5	215.1	213.8	212.4	211.1	212.4	213.8	215.1
102.5°	275.9	273.1	270.4	268.7	268.2	267.7	267.1	266.6	267.1	267.7	268.2
105°	356.2	354.8	353.5	352.7	352.3	352.0	351.7	351.3	351.7	352.0	352.3
107.5°	442.6	442.4	442.2	441.9	441.5	441.1	440.7	440.3	440.7	441.1	441.5
110°	502.8	503.1	503.5	503.3	502.6	501.9	501.3	500.6	501.3	501.9	502.6



TEST NUMBER: P333092

CATALOG NUMBER: S124RDIW-S1020D1560U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	562.4	563.0	563.6	563.9	563.7	563.6	563.5	563.3	563.5	563.6	563.7
115°	655.7	656.4	657.1	657.4	657.4	657.4	657.4	657.4	657.4	657.4	657.4
117.5°	746.1	746.6	747.1	747.2	746.9	746.6	746.3	746.1	746.3	746.6	746.9
120°	808.7	809.7	810.7	810.5	809.2	807.9	806.5	805.2	806.5	807.9	809.2
122.5°	867.9	868.4	868.9	868.8	868.3	867.8	867.2	866.7	867.2	867.8	868.3
125°	956.6	957.0	957.3	957.5	957.5	957.5	957.5	957.5	957.5	957.5	957.5
127.5°	1043.0	1043.5	1044.1	1043.8	1042.8	1041.8	1040.8	1039.8	1040.8	1041.8	1042.8
130°	1102.2	1102.2	1102.2	1101.7	1100.7	1099.7	1098.7	1097.7	1098.7	1099.7	1100.7
132.5°	1159.5	1159.7	1160.0	1159.8	1159.0	1158.3	1157.6	1156.8	1157.6	1158.3	1159.0
135°	1244.0	1244.0	1244.0	1243.0	1241.0	1238.9	1236.9	1234.9	1236.9	1238.9	1241.0
137.5°	1325.5	1325.0	1324.5	1323.7	1322.8	1321.8	1320.9	1320.0	1320.9	1321.8	1322.8
140°	1379.7	1379.7	1379.7	1379.3	1378.7	1378.0	1377.3	1376.7	1377.3	1378.0	1378.7
142.5°	1430.9	1431.1	1431.4	1431.2	1430.5	1429.9	1429.2	1428.5	1429.2	1429.9	1430.5
145°	1507.2	1506.8	1506.5	1505.7	1504.3	1503.0	1501.6	1500.3	1501.6	1503.0	1504.3
147.5°	1578.0	1578.3	1578.6	1577.9	1576.3	1574.7	1573.1	1571.5	1573.1	1574.7	1576.3
150°	1620.9	1620.9	1620.9	1620.3	1618.9	1617.6	1616.2	1614.9	1616.2	1617.6	1618.9
152.5°	1660.2	1659.9	1659.7	1659.1	1658.3	1657.5	1656.7	1655.9	1656.7	1657.5	1658.3
155°	1718.1	1718.4	1718.8	1718.9	1718.9	1718.9	1718.9	1718.9	1718.9	1718.9	1718.9
157.5°	1769.1	1769.2	1769.3	1769.6	1770.2	1770.8	1771.4	1772.0	1771.4	1770.8	1770.2
160°	1801.0	1801.4	1801.7	1802.0	1802.4	1802.7	1803.0	1803.4	1803.0	1802.7	1802.4
162.5°	1827.6	1827.9	1828.2	1828.8	1829.7	1830.6	1831.5	1832.3	1831.5	1830.6	1829.7
165°	1865.0	1865.7	1866.4	1867.2	1868.2	1869.2	1870.2	1871.2	1870.2	1869.2	1868.2
167.5°	1894.9	1894.9	1894.8	1895.5	1896.9	1898.3	1899.7	1901.1	1899.7	1898.3	1896.9
170°	1911.3	1910.9	1910.6	1911.3	1912.9	1914.6	1916.3	1918.0	1916.3	1914.6	1912.9
172.5°	1923.9	1923.8	1923.7	1924.4	1925.8	1927.2	1928.6	1930.0	1928.6	1927.2	1925.8
175°	1938.2	1938.6	1938.9	1939.9	1941.6	1943.3	1944.9	1946.6	1944.9	1943.3	1941.6
177.5°	1946.0	1946.0	1946.0	1946.7	1948.0	1949.4	1950.7	1952.0	1950.7	1949.4	1948.0
180°	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6



TEST NUMBER: P333092

CATALOG NUMBER: S124RDIW-S1020D1560U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1684.8	1679.3	1672.1	1663.8	1653.9	1645.0	1641.2	1644.5	1646.1	1641.7	1641.2
5°	1633.6	1616.3	1602.4	1581.7	1565.1	1551.3	1541.6	1537.5	1538.8	1527.8	1525.0
7.5°	1575.9	1555.4	1532.8	1508.1	1485.2	1464.9	1454.2	1448.4	1436.7	1431.7	1423.3
10°	1538.8	1511.2	1489.1	1460.0	1433.8	1409.6	1397.8	1388.1	1376.4	1370.9	1359.1
12.5°	1500.7	1468.6	1444.3	1414.1	1387.3	1358.1	1346.9	1329.0	1310.6	1299.0	1283.9
15°	1446.9	1408.2	1378.5	1342.5	1310.7	1277.5	1247.8	1214.6	1202.2	1175.9	1160.7
17.5°	1384.0	1344.7	1307.9	1259.7	1210.6	1169.4	1137.7	1105.9	1086.9	1070.1	1062.4
20°	1342.5	1306.6	1255.4	1199.4	1144.8	1099.2	1073.6	1052.9	1032.1	1020.4	1012.1
22.5°	1303.2	1257.3	1197.9	1137.5	1082.9	1047.2	1025.5	1004.2	987.3	976.1	965.1
25°	1237.4	1177.3	1114.4	1045.3	1007.9	976.8	953.3	936.0	925.7	911.1	905.6
27.5°	1169.8	1097.0	1027.6	981.1	942.2	913.8	893.3	880.3	867.2	857.9	850.7
30°	1117.8	1043.9	981.7	937.4	898.0	874.5	857.9	842.7	832.3	824.7	819.2
32.5°	1066.4	992.4	940.2	892.6	861.5	838.6	820.9	809.5	801.4	791.5	788.2
35°	992.0	926.3	880.7	837.9	806.1	785.3	771.5	759.7	752.8	750.1	748.0
37.5°	920.5	866.8	817.7	782.6	754.2	737.9	721.6	715.8	711.1	706.1	708.3
40°	875.2	824.7	781.2	743.8	721.0	703.1	693.4	686.5	682.3	682.3	682.3
42.5°	835.9	786.6	744.1	710.7	687.8	672.6	661.9	656.0	654.7	654.1	657.4
45°	775.0	729.3	686.5	658.8	639.5	624.2	618.0	613.2	613.2	616.0	616.6
47.5°	714.5	671.8	637.4	606.4	588.7	579.2	573.8	571.3	571.6	574.3	577.5
50°	677.5	635.3	601.4	573.8	557.2	548.2	543.4	542.0	543.4	543.4	548.2
52.5°	637.1	599.4	566.0	542.8	524.0	515.6	512.9	511.0	511.8	514.1	516.1
55°	577.9	544.1	512.3	490.1	476.3	470.8	464.6	465.2	463.9	465.2	465.2
57.5°	518.6	488.2	458.6	441.1	428.9	420.9	414.1	416.0	414.0	413.7	412.6
60°	480.5	447.3	423.8	407.9	394.0	387.1	380.9	382.3	380.2	378.8	376.1
62.5°	439.0	411.3	388.9	373.6	362.5	354.5	348.3	346.9	342.1	337.4	331.3
65°	378.8	356.0	336.0	321.5	311.1	304.9	300.0	295.9	285.5	274.4	268.9
67.5°	320.4	303.9	285.2	272.9	264.5	256.3	247.1	240.0	230.3	224.3	220.8
70°	282.7	266.8	250.9	239.2	230.2	222.6	212.2	207.4	200.5	197.7	194.3
72.5°	246.8	232.0	217.2	206.6	197.0	191.1	182.9	178.1	175.0	173.9	170.5
75°	192.2	180.4	169.4	159.7	152.1	147.9	144.5	141.0	139.6	133.4	130.0
77.5°	140.2	132.5	125.5	118.6	113.2	110.5	103.8	99.8	97.5	94.6	93.9
80°	109.2	103.7	96.8	92.6	85.0	82.3	79.5	78.8	78.1	77.4	76.7
82.5°	82.1	76.6	69.7	67.2	65.1	63.5	61.8	61.1	60.4	60.8	60.7
85°	41.5	38.7	38.7	38.0	37.3	36.6	35.9	35.9	35.3	35.9	35.3
87.5°	17.7	17.8	18.3	17.7	18.8	19.4	19.2	19.6	20.6	19.9	20.1
90°	19.3	22.5	25.1	27.8	30.5	33.2	35.2	37.2	39.2	41.2	42.6
92.5°	49.2	52.2	54.1	56.0	57.8	59.7	60.9	62.1	63.3	64.5	65.3
95°	102.5	105.2	107.6	109.9	112.3	114.6	115.6	116.6	117.6	118.6	119.1
97.5°	167.7	170.3	173.0	175.7	178.5	181.2	182.4	183.7	184.9	186.1	186.7
100°	216.5	218.6	221.7	224.7	227.7	230.7	231.4	232.0	232.7	233.4	233.7
102.5°	268.7	270.4	273.1	275.9	278.6	281.4	282.3	283.2	284.2	285.1	285.7
105°	352.7	353.5	354.8	356.2	357.5	358.9	359.9	360.9	361.9	362.9	363.9
107.5°	441.9	442.2	442.4	442.6	442.8	443.0	443.9	444.9	445.8	446.8	447.2
110°	503.3	503.5	503.1	502.8	502.4	502.1	501.4	500.8	500.1	499.4	499.6



TEST NUMBER: P333092

CATALOG NUMBER: S124RDIW-S1020D1560U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	563.9	563.6	563.0	562.4	561.8	561.2	561.1	560.9	560.8	560.7	560.7
115°	657.4	657.1	656.4	655.7	655.1	654.4	654.1	653.7	653.4	653.1	652.7
117.5°	747.2	747.1	746.6	746.1	745.6	745.2	744.0	742.9	741.8	740.6	739.7
120°	810.5	810.7	809.7	808.7	807.7	806.7	805.0	803.3	801.7	800.0	799.5
122.5°	868.8	868.9	868.4	867.9	867.5	867.0	865.9	864.7	863.6	862.5	861.3
125°	957.5	957.3	957.0	956.6	956.3	956.0	955.3	954.6	954.0	953.3	952.6
127.5°	1043.8	1044.1	1043.5	1043.0	1042.5	1041.9	1041.2	1040.6	1039.9	1039.2	1038.6
130°	1101.7	1102.2	1102.2	1102.2	1102.2	1102.2	1101.6	1100.9	1100.2	1099.5	1098.5
132.5°	1159.8	1160.0	1159.7	1159.5	1159.2	1158.9	1158.3	1157.6	1156.9	1156.2	1155.6
135°	1243.0	1244.0	1244.0	1244.0	1244.0	1244.0	1243.3	1242.6	1242.0	1241.3	1240.4
137.5°	1323.7	1324.5	1325.0	1325.5	1326.1	1326.6	1325.7	1324.9	1324.0	1323.1	1322.8
140°	1379.3	1379.7	1379.7	1379.7	1379.7	1379.7	1379.3	1379.0	1378.7	1378.3	1378.0
142.5°	1431.2	1431.4	1431.1	1430.9	1430.6	1430.3	1430.3	1430.2	1430.1	1430.1	1430.0
145°	1505.7	1506.5	1506.8	1507.2	1507.5	1507.8	1507.5	1507.2	1506.8	1506.5	1505.8
147.5°	1577.9	1578.6	1578.3	1578.0	1577.8	1577.5	1577.2	1577.0	1576.7	1576.4	1576.1
150°	1620.3	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9	1620.8
152.5°	1659.1	1659.7	1659.9	1660.2	1660.5	1660.7	1661.5	1662.3	1663.1	1663.9	1663.9
155°	1718.9	1718.8	1718.4	1718.1	1717.8	1717.4	1718.8	1720.1	1721.4	1722.8	1722.8
157.5°	1769.6	1769.3	1769.2	1769.1	1769.1	1769.0	1770.0	1771.0	1772.0	1773.0	1772.9
160°	1802.0	1801.7	1801.4	1801.0	1800.7	1800.4	1801.4	1802.4	1803.4	1804.4	1804.0
162.5°	1828.8	1828.2	1827.9	1827.6	1827.2	1826.9	1828.7	1830.5	1832.3	1834.1	1834.2
165°	1867.2	1866.4	1865.7	1865.0	1864.4	1863.7	1865.7	1867.7	1869.7	1871.7	1872.1
167.5°	1895.5	1894.8	1894.9	1894.9	1895.0	1895.1	1897.1	1899.1	1901.1	1903.1	1903.1
170°	1911.3	1910.6	1910.9	1911.3	1911.6	1911.9	1913.9	1916.0	1918.0	1920.0	1919.8
172.5°	1924.4	1923.7	1923.8	1923.9	1923.9	1924.0	1926.3	1928.6	1930.8	1933.1	1933.1
175°	1939.9	1938.9	1938.6	1938.2	1937.9	1937.6	1939.9	1942.3	1944.6	1947.0	1947.0
177.5°	1946.7	1946.0	1946.0	1946.0	1946.0	1946.0	1947.9	1949.8	1951.6	1953.5	1953.4
180°	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6



TEST NUMBER: P333092

CATALOG NUMBER: S124RDIW-S1020D1560U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1637.8	1638.9	1635.1	1634.0	1635.1	1638.9	1637.8	1641.2	1641.7	1646.1	1644.5
5°	1519.5	1518.1	1514.6	1515.3	1514.6	1518.1	1519.5	1525.0	1527.8	1538.8	1537.5
7.5°	1418.3	1412.9	1414.4	1408.9	1414.4	1412.9	1418.3	1423.3	1431.7	1436.7	1448.4
10°	1356.3	1348.7	1342.5	1337.0	1342.5	1348.7	1356.3	1359.1	1370.9	1376.4	1388.1
12.5°	1271.7	1265.2	1256.8	1258.5	1256.8	1265.2	1271.7	1283.9	1299.0	1310.6	1329.0
15°	1151.7	1141.3	1124.8	1126.8	1124.8	1141.3	1151.7	1160.7	1175.9	1202.2	1214.6
17.5°	1050.1	1050.2	1042.6	1044.4	1042.6	1050.2	1050.1	1062.4	1070.1	1086.9	1105.9
20°	997.6	992.7	993.4	991.3	993.4	992.7	997.6	1012.1	1020.4	1032.1	1052.9
22.5°	961.1	955.1	950.3	946.0	950.3	955.1	961.1	965.1	976.1	987.3	1004.2
25°	899.4	895.2	889.0	887.6	889.0	895.2	899.4	905.6	911.1	925.7	936.0
27.5°	845.2	844.4	841.9	838.7	841.9	844.4	845.2	850.7	857.9	867.2	880.3
30°	813.7	812.3	810.9	808.8	810.9	812.3	813.7	819.2	824.7	832.3	842.7
32.5°	785.5	784.6	783.2	783.4	783.2	784.6	785.5	788.2	791.5	801.4	809.5
35°	745.2	744.5	743.2	742.5	743.2	744.5	745.2	748.0	750.1	752.8	759.7
37.5°	707.6	709.4	708.6	708.4	708.6	709.4	707.6	708.3	706.1	711.1	715.8
40°	681.6	682.3	683.7	683.0	683.7	682.3	681.6	682.3	682.3	682.3	686.5
42.5°	660.1	660.2	662.1	659.8	662.1	660.2	660.1	657.4	654.1	654.7	656.0
45°	621.5	625.6	624.9	624.9	624.9	625.6	621.5	616.6	616.0	613.2	613.2
47.5°	579.3	582.9	583.9	583.7	583.9	582.9	579.3	577.5	574.3	571.6	571.3
50°	551.7	550.3	552.4	551.7	552.4	550.3	551.7	548.2	543.4	543.4	542.0
52.5°	517.9	518.2	518.1	517.4	518.1	518.2	517.9	516.1	514.1	511.8	511.0
55°	465.9	466.6	465.2	465.9	465.2	466.6	465.9	465.2	465.2	463.9	465.2
57.5°	409.5	406.2	407.6	405.9	407.6	406.2	409.5	412.6	413.7	414.0	416.0
60°	369.2	363.6	362.2	359.5	362.2	363.6	369.2	376.1	378.8	380.2	382.3
62.5°	323.8	319.9	315.2	317.4	315.2	319.9	323.8	331.3	337.4	342.1	346.9
65°	263.4	260.6	258.5	261.3	258.5	260.6	263.4	268.9	274.4	285.5	295.9
67.5°	218.0	216.5	216.5	215.1	216.5	216.5	218.0	220.8	224.3	230.3	240.0
70°	194.3	192.2	192.2	190.8	192.2	192.2	194.3	194.3	197.7	200.5	207.4
72.5°	169.9	167.8	168.4	167.6	168.4	167.8	169.9	170.5	173.9	175.0	178.1
75°	125.8	122.4	122.4	123.1	122.4	122.4	125.8	130.0	133.4	139.6	141.0
77.5°	93.9	93.2	94.2	92.9	94.2	93.2	93.9	93.9	94.6	97.5	99.8
80°	76.7	76.0	75.4	77.4	75.4	76.0	76.7	76.7	77.4	78.1	78.8
82.5°	59.6	59.5	59.3	61.9	59.3	59.5	59.6	60.7	60.8	60.4	61.1
85°	35.9	34.6	35.9	34.6	35.9	34.6	35.9	35.3	35.9	35.3	35.9
87.5°	21.4	20.9	20.5	21.2	20.5	20.9	21.4	20.1	19.9	20.6	19.6
90°	43.2	43.9	44.6	45.2	44.6	43.9	43.2	42.6	41.2	39.2	37.2
92.5°	65.7	66.1	66.5	66.9	66.5	66.1	65.7	65.3	64.5	63.3	62.1
95°	119.1	119.1	119.1	119.1	119.1	119.1	119.1	119.1	118.6	117.6	116.6
97.5°	186.7	186.7	186.7	186.7	186.7	186.7	186.7	186.7	186.1	184.9	183.7
100°	233.7	233.7	233.7	233.7	233.7	233.7	233.7	233.7	233.4	232.7	232.0
102.5°	286.0	286.3	286.5	286.8	286.5	286.3	286.0	285.7	285.1	284.2	283.2
105°	364.9	365.9	366.9	367.9	366.9	365.9	364.9	363.9	362.9	361.9	360.9
107.5°	447.1	447.1	447.0	446.9	447.0	447.1	447.1	447.2	446.8	445.8	444.9
110°	500.6	501.6	502.6	503.6	502.6	501.6	500.6	499.6	499.4	500.1	500.8



TEST NUMBER: P333092

CATALOG NUMBER: S124RDIW-S1020D1560U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	560.9	561.1	561.3	561.5	561.3	561.1	560.9	560.7	560.7	560.8	560.9
115°	652.4	652.1	651.7	651.4	651.7	652.1	652.4	652.7	653.1	653.4	653.7
117.5°	739.0	738.4	737.7	737.0	737.7	738.4	739.0	739.7	740.6	741.8	742.9
120°	800.2	800.8	801.5	802.2	801.5	800.8	800.2	799.5	800.0	801.7	803.3
122.5°	860.1	858.9	857.7	856.5	857.7	858.9	860.1	861.3	862.5	863.6	864.7
125°	951.9	951.3	950.6	949.9	950.6	951.3	951.9	952.6	953.3	954.0	954.6
127.5°	1038.1	1037.6	1037.0	1036.5	1037.0	1037.6	1038.1	1038.6	1039.2	1039.9	1040.6
130°	1097.2	1095.9	1094.5	1093.2	1094.5	1095.9	1097.2	1098.5	1099.5	1100.2	1100.9
132.5°	1155.1	1154.6	1154.0	1153.5	1154.0	1154.6	1155.1	1155.6	1156.2	1156.9	1157.6
135°	1239.4	1238.4	1237.4	1236.4	1237.4	1238.4	1239.4	1240.4	1241.3	1242.0	1242.6
137.5°	1323.0	1323.2	1323.4	1323.6	1323.4	1323.2	1323.0	1322.8	1323.1	1324.0	1324.9
140°	1377.7	1377.3	1377.0	1376.7	1377.0	1377.3	1377.7	1378.0	1378.3	1378.7	1379.0
142.5°	1429.9	1429.9	1429.8	1429.7	1429.8	1429.9	1429.9	1430.0	1430.1	1430.1	1430.2
145°	1504.8	1503.8	1502.8	1501.8	1502.8	1503.8	1504.8	1505.8	1506.5	1506.8	1507.2
147.5°	1575.8	1575.5	1575.1	1574.8	1575.1	1575.5	1575.8	1576.1	1576.4	1576.7	1577.0
150°	1620.4	1620.1	1619.8	1619.4	1619.8	1620.1	1620.4	1620.8	1620.9	1620.9	1620.9
152.5°	1663.0	1662.2	1661.3	1660.4	1661.3	1662.2	1663.0	1663.9	1663.9	1663.1	1662.3
155°	1721.4	1720.1	1718.8	1717.4	1718.8	1720.1	1721.4	1722.8	1722.8	1721.4	1720.1
157.5°	1771.8	1770.7	1769.5	1768.4	1769.5	1770.7	1771.8	1772.9	1773.0	1772.0	1771.0
160°	1802.4	1800.7	1799.0	1797.3	1799.0	1800.7	1802.4	1804.0	1804.4	1803.4	1802.4
162.5°	1832.5	1830.9	1829.2	1827.5	1829.2	1830.9	1832.5	1834.2	1834.1	1832.3	1830.5
165°	1870.7	1869.4	1868.0	1866.7	1868.0	1869.4	1870.7	1872.1	1871.7	1869.7	1867.7
167.5°	1901.0	1898.9	1896.8	1894.7	1896.8	1898.9	1901.0	1903.1	1903.1	1901.1	1899.1
170°	1917.5	1915.1	1912.8	1910.4	1912.8	1915.1	1917.5	1919.8	1920.0	1918.0	1916.0
172.5°	1930.7	1928.4	1926.0	1923.7	1926.0	1928.4	1930.7	1933.1	1933.1	1930.8	1928.6
175°	1944.6	1942.3	1939.9	1937.6	1939.9	1942.3	1944.6	1947.0	1947.0	1944.6	1942.3
177.5°	1951.2	1949.1	1947.0	1944.8	1947.0	1949.1	1951.2	1953.4	1953.5	1951.6	1949.8
180°	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6



TEST NUMBER: P333092

CATALOG NUMBER: S124RDIW-S1020D1560U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1641.2	1645.0	1653.9	1663.8	1672.1	1679.3	1684.8	1692.6	1699.8	1709.7	1719.1
5°	1541.6	1551.3	1565.1	1581.7	1602.4	1616.3	1633.6	1648.8	1670.9	1693.0	1714.4
7.5°	1454.2	1464.9	1485.2	1508.1	1532.8	1555.4	1575.9	1602.7	1632.0	1664.2	1700.2
10°	1397.8	1409.6	1433.8	1460.0	1489.1	1511.2	1538.8	1570.6	1603.8	1643.2	1687.5
12.5°	1346.9	1358.1	1387.3	1414.1	1444.3	1468.6	1500.7	1533.0	1577.3	1620.0	1670.3
15°	1247.8	1277.5	1310.7	1342.5	1378.5	1408.2	1446.9	1480.1	1522.3	1582.4	1639.8
17.5°	1137.7	1169.4	1210.6	1259.7	1307.9	1344.7	1384.0	1425.2	1475.4	1536.8	1603.0
20°	1073.6	1099.2	1144.8	1199.4	1255.4	1306.6	1342.5	1388.1	1440.0	1506.4	1574.8
22.5°	1025.5	1047.2	1082.9	1137.5	1197.9	1257.3	1303.2	1348.3	1405.7	1472.1	1546.6
25°	953.3	976.8	1007.9	1045.3	1114.4	1177.3	1237.4	1289.3	1350.1	1416.5	1499.4
27.5°	893.3	913.8	942.2	981.1	1027.6	1097.0	1169.8	1229.0	1291.4	1362.6	1445.7
30°	857.9	874.5	898.0	937.4	981.7	1043.9	1117.8	1187.0	1249.9	1323.8	1410.3
32.5°	820.9	838.6	861.5	892.6	940.2	992.4	1066.4	1142.2	1209.0	1284.6	1369.3
35°	771.5	785.3	806.1	837.9	880.7	926.3	992.0	1070.1	1140.7	1221.5	1302.4
37.5°	721.6	737.9	754.2	782.6	817.7	866.8	920.5	1000.3	1078.4	1152.3	1231.2
40°	693.4	703.1	721.0	743.8	781.2	824.7	875.2	953.3	1031.4	1104.7	1184.2
42.5°	661.9	672.6	687.8	710.7	744.1	786.6	835.9	903.5	985.0	1056.0	1128.3
45°	618.0	624.2	639.5	658.8	686.5	729.3	775.0	835.1	911.8	979.6	1043.2
47.5°	573.8	579.2	588.7	606.4	637.4	671.8	714.5	768.5	835.8	903.5	957.3
50°	543.4	548.2	557.2	573.8	601.4	635.3	677.5	725.9	786.0	851.0	895.9
52.5°	512.9	515.6	524.0	542.8	566.0	599.4	637.1	681.6	737.9	791.8	837.3
55°	464.6	470.8	476.3	490.1	512.3	544.1	577.9	620.1	663.7	709.3	748.0
57.5°	414.1	420.9	428.9	441.1	458.6	488.2	518.6	552.8	590.0	627.8	660.3
60°	380.9	387.1	394.0	407.9	423.8	447.3	480.5	510.2	538.5	573.1	605.6
62.5°	348.3	354.5	362.5	373.6	388.9	411.3	439.0	464.8	494.3	524.4	548.6
65°	300.0	304.9	311.1	321.5	336.0	356.0	378.8	398.9	425.2	447.3	469.4
67.5°	247.1	256.3	264.5	272.9	285.2	303.9	320.4	339.6	357.4	373.9	394.0
70°	212.2	222.6	230.2	239.2	250.9	266.8	282.7	295.9	310.4	326.3	344.3
72.5°	182.9	191.1	197.0	206.6	217.2	232.0	246.8	257.7	269.5	280.4	297.8
75°	144.5	147.9	152.1	159.7	169.4	180.4	192.2	201.9	208.8	218.5	230.9
77.5°	103.8	110.5	113.2	118.6	125.5	132.5	140.2	148.4	155.0	158.4	168.0
80°	79.5	82.3	85.0	92.6	96.8	103.7	109.2	116.8	119.6	123.1	132.0
82.5°	61.8	63.5	65.1	67.2	69.7	76.6	82.1	87.0	89.7	91.0	97.8
85°	35.9	36.6	37.3	38.0	38.7	38.7	41.5	44.9	49.8	49.8	51.8
87.5°	19.2	19.4	18.8	17.7	18.3	17.8	17.7	16.9	17.9	18.8	19.7
90°	35.2	33.2	30.5	27.8	25.1	22.5	19.3	15.6	11.9	8.2	4.5
92.5°	60.9	59.7	57.8	56.0	54.1	52.2	49.2	44.9	40.7	36.5	32.3
95°	115.6	114.6	112.3	109.9	107.6	105.2	102.5	99.5	96.5	93.5	90.5
97.5°	182.4	181.2	178.5	175.7	173.0	170.3	167.7	165.3	162.8	160.4	158.0
100°	231.4	230.7	227.7	224.7	221.7	218.6	216.5	215.1	213.8	212.4	211.1
102.5°	282.3	281.4	278.6	275.9	273.1	270.4	268.7	268.2	267.7	267.1	266.6
105°	359.9	358.9	357.5	356.2	354.8	353.5	352.7	352.3	352.0	351.7	351.3
107.5°	443.9	443.0	442.8	442.6	442.4	442.2	441.9	441.5	441.1	440.7	440.3
110°	501.4	502.1	502.4	502.8	503.1	503.5	503.3	502.6	501.9	501.3	500.6



TEST NUMBER: P333092

CATALOG NUMBER: S124RDIW-S1020D1560U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	561.1	561.2	561.8	562.4	563.0	563.6	563.9	563.7	563.6	563.5	563.3
115°	654.1	654.4	655.1	655.7	656.4	657.1	657.4	657.4	657.4	657.4	657.4
117.5°	744.0	745.2	745.6	746.1	746.6	747.1	747.2	746.9	746.6	746.3	746.1
120°	805.0	806.7	807.7	808.7	809.7	810.7	810.5	809.2	807.9	806.5	805.2
122.5°	865.9	867.0	867.5	867.9	868.4	868.9	868.8	868.3	867.8	867.2	866.7
125°	955.3	956.0	956.3	956.6	957.0	957.3	957.5	957.5	957.5	957.5	957.5
127.5°	1041.2	1041.9	1042.5	1043.0	1043.5	1044.1	1043.8	1042.8	1041.8	1040.8	1039.8
130°	1101.6	1102.2	1102.2	1102.2	1102.2	1102.2	1101.7	1100.7	1099.7	1098.7	1097.7
132.5°	1158.3	1158.9	1159.2	1159.5	1159.7	1160.0	1159.8	1159.0	1158.3	1157.6	1156.8
135°	1243.3	1244.0	1244.0	1244.0	1244.0	1244.0	1243.0	1241.0	1238.9	1236.9	1234.9
137.5°	1325.7	1326.6	1326.1	1325.5	1325.0	1324.5	1323.7	1322.8	1321.8	1320.9	1320.0
140°	1379.3	1379.7	1379.7	1379.7	1379.7	1379.7	1379.3	1378.7	1378.0	1377.3	1376.7
142.5°	1430.3	1430.3	1430.6	1430.9	1431.1	1431.4	1431.2	1430.5	1429.9	1429.2	1428.5
145°	1507.5	1507.8	1507.5	1507.2	1506.8	1506.5	1505.7	1504.3	1503.0	1501.6	1500.3
147.5°	1577.2	1577.5	1577.8	1578.0	1578.3	1578.6	1577.9	1576.3	1574.7	1573.1	1571.5
150°	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9	1620.3	1618.9	1617.6	1616.2	1614.9
152.5°	1661.5	1660.7	1660.5	1660.2	1659.9	1659.7	1659.1	1658.3	1657.5	1656.7	1655.9
155°	1718.8	1717.4	1717.8	1718.1	1718.4	1718.8	1718.9	1718.9	1718.9	1718.9	1718.9
157.5°	1770.0	1769.0	1769.1	1769.1	1769.2	1769.3	1769.6	1770.2	1770.8	1771.4	1772.0
160°	1801.4	1800.4	1800.7	1801.0	1801.4	1801.7	1802.0	1802.4	1802.7	1803.0	1803.4
162.5°	1828.7	1826.9	1827.2	1827.6	1827.9	1828.2	1828.8	1829.7	1830.6	1831.5	1832.3
165°	1865.7	1863.7	1864.4	1865.0	1865.7	1866.4	1867.2	1868.2	1869.2	1870.2	1871.2
167.5°	1897.1	1895.1	1895.0	1894.9	1894.9	1894.8	1895.5	1896.9	1898.3	1899.7	1901.1
170°	1913.9	1911.9	1911.6	1911.3	1910.9	1910.6	1911.3	1912.9	1914.6	1916.3	1918.0
172.5°	1926.3	1924.0	1923.9	1923.9	1923.8	1923.7	1924.4	1925.8	1927.2	1928.6	1930.0
175°	1939.9	1937.6	1937.9	1938.2	1938.6	1938.9	1939.9	1941.6	1943.3	1944.9	1946.6
177.5°	1947.9	1946.0	1946.0	1946.0	1946.0	1946.0	1946.7	1948.0	1949.4	1950.7	1952.0
180°	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6



TEST NUMBER: P333092

CATALOG NUMBER: S124RDIW-S1020D1560U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1726.3	1731.3	1736.8	1747.3	1756.2	1760.1	1767.8	1773.3	1771.7	1779.4	1792.7
5°	1733.1	1751.8	1773.2	1795.3	1820.2	1840.9	1857.5	1874.1	1887.3	1903.2	1926.7
7.5°	1732.0	1765.2	1801.3	1840.9	1881.7	1917.0	1949.6	1982.8	2012.2	2044.5	2086.6
10°	1727.6	1771.8	1816.7	1868.6	1920.4	1969.5	2013.8	2055.2	2094.7	2136.8	2190.1
12.5°	1722.6	1773.5	1827.8	1890.2	1954.7	2013.8	2065.8	2125.5	2174.8	2229.2	2290.7
15°	1700.6	1769.0	1843.0	1923.9	2001.3	2080.8	2152.0	2225.3	2293.7	2358.7	2436.2
17.5°	1675.4	1754.4	1841.6	1937.2	2030.2	2126.9	2211.3	2303.7	2373.7	2460.9	2532.8
20°	1655.0	1740.0	1833.3	1940.5	2046.3	2153.4	2246.7	2340.8	2419.6	2507.4	2598.6
22.5°	1630.1	1723.4	1824.5	1935.5	2046.3	2163.4	2266.6	2360.1	2457.7	2556.6	2650.6
25°	1590.0	1686.8	1793.9	1915.6	2042.8	2162.4	2273.0	2389.1	2494.2	2601.4	2685.7
27.5°	1540.8	1642.4	1755.4	1880.9	2011.4	2133.9	2264.2	2387.9	2493.7	2596.8	2670.4
30°	1501.5	1608.7	1717.2	1844.4	1979.9	2111.2	2250.9	2374.6	2485.9	2578.6	2620.0
32.5°	1461.1	1562.8	1674.6	1803.5	1942.3	2083.6	2222.1	2348.6	2451.6	2507.2	2508.3
35°	1390.9	1486.3	1602.4	1729.0	1871.4	2024.8	2165.2	2289.6	2352.5	2357.3	2289.6
37.5°	1314.3	1401.8	1511.5	1638.1	1794.1	1946.7	2090.1	2173.0	2194.1	2123.7	1998.4
40°	1259.6	1340.4	1446.2	1576.2	1731.0	1888.6	2019.3	2080.1	2058.0	1943.9	1804.3
42.5°	1202.0	1277.4	1379.3	1507.6	1663.0	1822.3	1933.6	1966.2	1907.6	1775.8	1612.4
45°	1108.2	1177.3	1278.2	1407.5	1556.8	1706.1	1790.5	1773.9	1676.4	1520.2	1337.0
47.5°	1010.4	1077.2	1168.0	1287.6	1440.5	1569.4	1626.5	1576.5	1437.8	1265.9	1116.9
50°	945.7	1014.1	1097.8	1211.9	1351.5	1475.9	1512.6	1436.5	1282.4	1117.1	980.3
52.5°	882.1	940.6	1022.6	1132.8	1266.3	1371.4	1390.9	1303.2	1144.1	996.0	874.6
55°	785.3	838.6	907.7	1011.4	1126.8	1216.0	1205.6	1093.0	948.5	822.0	726.6
57.5°	691.7	731.8	795.7	892.9	994.2	1054.1	1016.2	920.1	785.5	681.9	601.4
60°	629.8	667.1	726.6	811.6	900.8	934.6	902.8	798.5	692.0	597.3	529.5
62.5°	571.2	604.1	655.2	734.2	806.2	826.2	792.2	701.1	605.2	524.3	468.2
65°	486.0	516.4	560.0	616.0	665.7	675.4	653.3	560.0	487.4	419.6	380.9
67.5°	408.7	428.6	462.6	511.0	537.4	543.1	500.4	441.7	377.7	336.1	306.9
70°	356.7	370.5	402.3	428.6	450.0	450.7	411.3	364.3	315.2	281.4	259.9
72.5°	306.4	319.7	343.7	361.7	378.1	372.8	336.7	299.6	259.9	234.4	218.5
75°	236.4	248.2	260.6	268.9	268.9	262.0	235.7	208.1	185.3	170.1	165.2
77.5°	171.9	181.5	185.7	184.4	182.0	171.2	154.6	136.5	128.3	121.1	117.5
80°	134.8	139.0	140.3	136.9	132.7	120.3	109.2	101.6	94.0	91.3	89.9
82.5°	100.0	103.6	100.0	100.9	91.8	81.6	75.5	72.9	69.7	68.6	67.2
85°	53.2	52.5	51.2	47.7	41.5	40.1	39.4	38.7	37.3	38.0	36.6
87.5°	19.9	19.0	17.5	17.7	18.3	17.7	18.8	19.4	19.9	19.8	21.3
90°	8.2	11.9	15.6	19.3	22.5	25.1	27.8	30.5	33.2	35.2	37.2
92.5°	36.5	40.7	44.9	49.2	52.2	54.1	56.0	57.8	59.7	60.9	62.1
95°	93.5	96.5	99.5	102.5	105.2	107.6	109.9	112.3	114.6	115.6	116.6
97.5°	160.4	162.8	165.3	167.7	170.3	173.0	175.7	178.5	181.2	182.4	183.7
100°	212.4	213.8	215.1	216.5	218.6	221.7	224.7	227.7	230.7	231.4	232.0
102.5°	267.1	267.7	268.2	268.7	270.4	273.1	275.9	278.6	281.4	282.3	283.2
105°	351.7	352.0	352.3	352.7	353.5	354.8	356.2	357.5	358.9	359.9	360.9
107.5°	440.7	441.1	441.5	441.9	442.2	442.4	442.6	442.8	443.0	443.9	444.9
110°	501.3	501.9	502.6	503.3	503.5	503.1	502.8	502.4	502.1	501.4	500.8



TEST NUMBER: P333092

CATALOG NUMBER: S124RDIW-S1020D1560U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	563.5	563.6	563.7	563.9	563.6	563.0	562.4	561.8	561.2	561.1	560.9
115°	657.4	657.4	657.4	657.4	657.1	656.4	655.7	655.1	654.4	654.1	653.7
117.5°	746.3	746.6	746.9	747.2	747.1	746.6	746.1	745.6	745.2	744.0	742.9
120°	806.5	807.9	809.2	810.5	810.7	809.7	808.7	807.7	806.7	805.0	803.3
122.5°	867.2	867.8	868.3	868.8	868.9	868.4	867.9	867.5	867.0	865.9	864.7
125°	957.5	957.5	957.5	957.5	957.3	957.0	956.6	956.3	956.0	955.3	954.6
127.5°	1040.8	1041.8	1042.8	1043.8	1044.1	1043.5	1043.0	1042.5	1041.9	1041.2	1040.6
130°	1098.7	1099.7	1100.7	1101.7	1102.2	1102.2	1102.2	1102.2	1102.2	1101.6	1100.9
132.5°	1157.6	1158.3	1159.0	1159.8	1160.0	1159.7	1159.5	1159.2	1158.9	1158.3	1157.6
135°	1236.9	1238.9	1241.0	1243.0	1244.0	1244.0	1244.0	1244.0	1244.0	1243.3	1242.6
137.5°	1320.9	1321.8	1322.8	1323.7	1324.5	1325.0	1325.5	1326.1	1326.6	1325.7	1324.9
140°	1377.3	1378.0	1378.7	1379.3	1379.7	1379.7	1379.7	1379.7	1379.7	1379.3	1379.0
142.5°	1429.2	1429.9	1430.5	1431.2	1431.4	1431.1	1430.9	1430.6	1430.3	1430.3	1430.2
145°	1501.6	1503.0	1504.3	1505.7	1506.5	1506.8	1507.2	1507.5	1507.8	1507.5	1507.2
147.5°	1573.1	1574.7	1576.3	1577.9	1578.6	1578.3	1578.0	1577.8	1577.5	1577.2	1577.0
150°	1616.2	1617.6	1618.9	1620.3	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9
152.5°	1656.7	1657.5	1658.3	1659.1	1659.7	1659.9	1660.2	1660.5	1660.7	1661.5	1662.3
155°	1718.9	1718.9	1718.9	1718.9	1718.8	1718.4	1718.1	1717.8	1717.4	1718.8	1720.1
157.5°	1771.4	1770.8	1770.2	1769.6	1769.3	1769.2	1769.1	1769.1	1769.0	1770.0	1771.0
160°	1803.0	1802.7	1802.4	1802.0	1801.7	1801.4	1801.0	1800.7	1800.4	1801.4	1802.4
162.5°	1831.5	1830.6	1829.7	1828.8	1828.2	1827.9	1827.6	1827.2	1826.9	1828.7	1830.5
165°	1870.2	1869.2	1868.2	1867.2	1866.4	1865.7	1865.0	1864.4	1863.7	1865.7	1867.7
167.5°	1899.7	1898.3	1896.9	1895.5	1894.8	1894.9	1894.9	1895.0	1895.1	1897.1	1899.1
170°	1916.3	1914.6	1912.9	1911.3	1910.6	1910.9	1911.3	1911.6	1911.9	1913.9	1916.0
172.5°	1928.6	1927.2	1925.8	1924.4	1923.7	1923.8	1923.9	1923.9	1924.0	1926.3	1928.6
175°	1944.9	1943.3	1941.6	1939.9	1938.9	1938.6	1938.2	1937.9	1937.6	1939.9	1942.3
177.5°	1950.7	1949.4	1948.0	1946.7	1946.0	1946.0	1946.0	1946.0	1946.0	1947.9	1949.8
180°	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6



TEST NUMBER: P333092

CATALOG NUMBER: S124RDIW-S1020D1560U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8	1715.8
2.5°	1799.9	1802.1	1803.8	1809.3	1809.8	1814.8	1809.8
5°	1948.8	1958.5	1973.7	1988.9	1990.3	1999.9	1982.7
7.5°	2115.8	2138.2	2152.2	2176.8	2186.5	2192.5	2182.6
10°	2230.8	2251.6	2288.2	2306.2	2324.2	2326.9	2318.6
12.5°	2342.0	2374.9	2403.8	2437.8	2437.0	2461.3	2452.5
15°	2490.1	2524.0	2564.0	2602.1	2615.9	2615.9	2627.0
17.5°	2595.7	2657.8	2699.3	2729.1	2761.8	2767.4	2763.6
20°	2667.1	2734.1	2778.4	2817.1	2839.2	2845.4	2845.4
22.5°	2720.1	2777.2	2820.4	2855.2	2873.5	2880.8	2878.6
25°	2756.9	2806.0	2832.3	2842.6	2847.5	2846.1	2833.0
27.5°	2706.6	2704.4	2687.8	2656.0	2632.1	2617.6	2601.0
30°	2610.4	2574.4	2532.9	2487.3	2428.6	2383.6	2369.8
32.5°	2467.1	2386.4	2316.1	2240.1	2176.9	2132.0	2113.2
35°	2190.1	2062.2	1957.8	1866.5	1800.2	1758.7	1744.9
37.5°	1861.3	1737.5	1608.3	1519.8	1464.7	1422.8	1407.2
40°	1652.2	1517.4	1404.7	1321.8	1265.1	1224.3	1223.6
42.5°	1461.4	1332.7	1226.7	1166.9	1105.8	1078.8	1078.7
45°	1196.6	1093.6	1003.8	956.8	920.1	898.0	891.8
47.5°	990.8	905.6	845.7	808.3	778.4	764.3	755.2
50°	875.2	800.5	752.8	720.3	703.7	685.8	684.4
52.5°	779.0	718.7	681.5	655.1	634.1	623.3	623.6
55°	654.7	607.0	580.7	560.6	544.1	535.8	532.3
57.5°	551.5	515.7	496.6	478.2	471.2	464.7	462.9
60°	487.4	463.2	445.2	430.7	420.3	418.2	417.5
62.5°	434.3	409.0	396.5	385.3	377.7	374.5	373.3
65°	358.1	339.4	328.4	319.4	316.6	311.8	311.1
67.5°	288.7	277.5	270.2	263.9	260.2	259.9	259.9
70°	246.1	239.9	233.7	230.2	228.1	226.7	226.7
72.5°	209.6	205.0	199.9	198.1	197.7	196.3	195.8
75°	159.7	154.9	155.5	152.1	149.3	145.9	143.8
77.5°	113.2	109.8	109.1	108.7	106.3	105.9	107.0
80°	87.8	84.3	83.6	84.3	83.6	81.6	81.6
82.5°	66.8	63.9	63.2	62.8	62.1	62.8	61.7
85°	35.9	34.6	34.6	34.6	35.9	35.3	34.6
87.5°	20.6	20.4	21.2	20.8	20.9	20.5	21.2
90°	39.2	41.2	42.6	43.2	43.9	44.6	45.2
92.5°	63.3	64.5	65.3	65.7	66.1	66.5	66.9
95°	117.6	118.6	119.1	119.1	119.1	119.1	119.1
97.5°	184.9	186.1	186.7	186.7	186.7	186.7	186.7
100°	232.7	233.4	233.7	233.7	233.7	233.7	233.7
102.5°	284.2	285.1	285.7	286.0	286.3	286.5	286.8
105°	361.9	362.9	363.9	364.9	365.9	366.9	367.9
107.5°	445.8	446.8	447.2	447.1	447.1	447.0	446.9
110°	500.1	499.4	499.6	500.6	501.6	502.6	503.6



TEST NUMBER: P333092

CATALOG NUMBER: S124RDIW-S1020D1560U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	560.8	560.7	560.7	560.9	561.1	561.3	561.5
115°	653.4	653.1	652.7	652.4	652.1	651.7	651.4
117.5°	741.8	740.6	739.7	739.0	738.4	737.7	737.0
120°	801.7	800.0	799.5	800.2	800.8	801.5	802.2
122.5°	863.6	862.5	861.3	860.1	858.9	857.7	856.5
125°	954.0	953.3	952.6	951.9	951.3	950.6	949.9
127.5°	1039.9	1039.2	1038.6	1038.1	1037.6	1037.0	1036.5
130°	1100.2	1099.5	1098.5	1097.2	1095.9	1094.5	1093.2
132.5°	1156.9	1156.2	1155.6	1155.1	1154.6	1154.0	1153.5
135°	1242.0	1241.3	1240.4	1239.4	1238.4	1237.4	1236.4
137.5°	1324.0	1323.1	1322.8	1323.0	1323.2	1323.4	1323.6
140°	1378.7	1378.3	1378.0	1377.7	1377.3	1377.0	1376.7
142.5°	1430.1	1430.1	1430.0	1429.9	1429.9	1429.8	1429.7
145°	1506.8	1506.5	1505.8	1504.8	1503.8	1502.8	1501.8
147.5°	1576.7	1576.4	1576.1	1575.8	1575.5	1575.1	1574.8
150°	1620.9	1620.9	1620.8	1620.4	1620.1	1619.8	1619.4
152.5°	1663.1	1663.9	1663.9	1663.0	1662.2	1661.3	1660.4
155°	1721.4	1722.8	1722.8	1721.4	1720.1	1718.8	1717.4
157.5°	1772.0	1773.0	1772.9	1771.8	1770.7	1769.5	1768.4
160°	1803.4	1804.4	1804.0	1802.4	1800.7	1799.0	1797.3
162.5°	1832.3	1834.1	1834.2	1832.5	1830.9	1829.2	1827.5
165°	1869.7	1871.7	1872.1	1870.7	1869.4	1868.0	1866.7
167.5°	1901.1	1903.1	1903.1	1901.0	1898.9	1896.8	1894.7
170°	1918.0	1920.0	1919.8	1917.5	1915.1	1912.8	1910.4
172.5°	1930.8	1933.1	1933.1	1930.7	1928.4	1926.0	1923.7
175°	1944.6	1947.0	1947.0	1944.6	1942.3	1939.9	1937.6
177.5°	1951.6	1953.5	1953.4	1951.2	1949.1	1947.0	1944.8
180°	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6	1949.6

(END OF REPORT)