

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: P333112

Luminaire Tested: **S124RDIW-S1195D1560U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333112
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-S1195D1560U835-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 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: 10424.1 lumens
Efficiency: N/A
Efficacy: 125.7 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

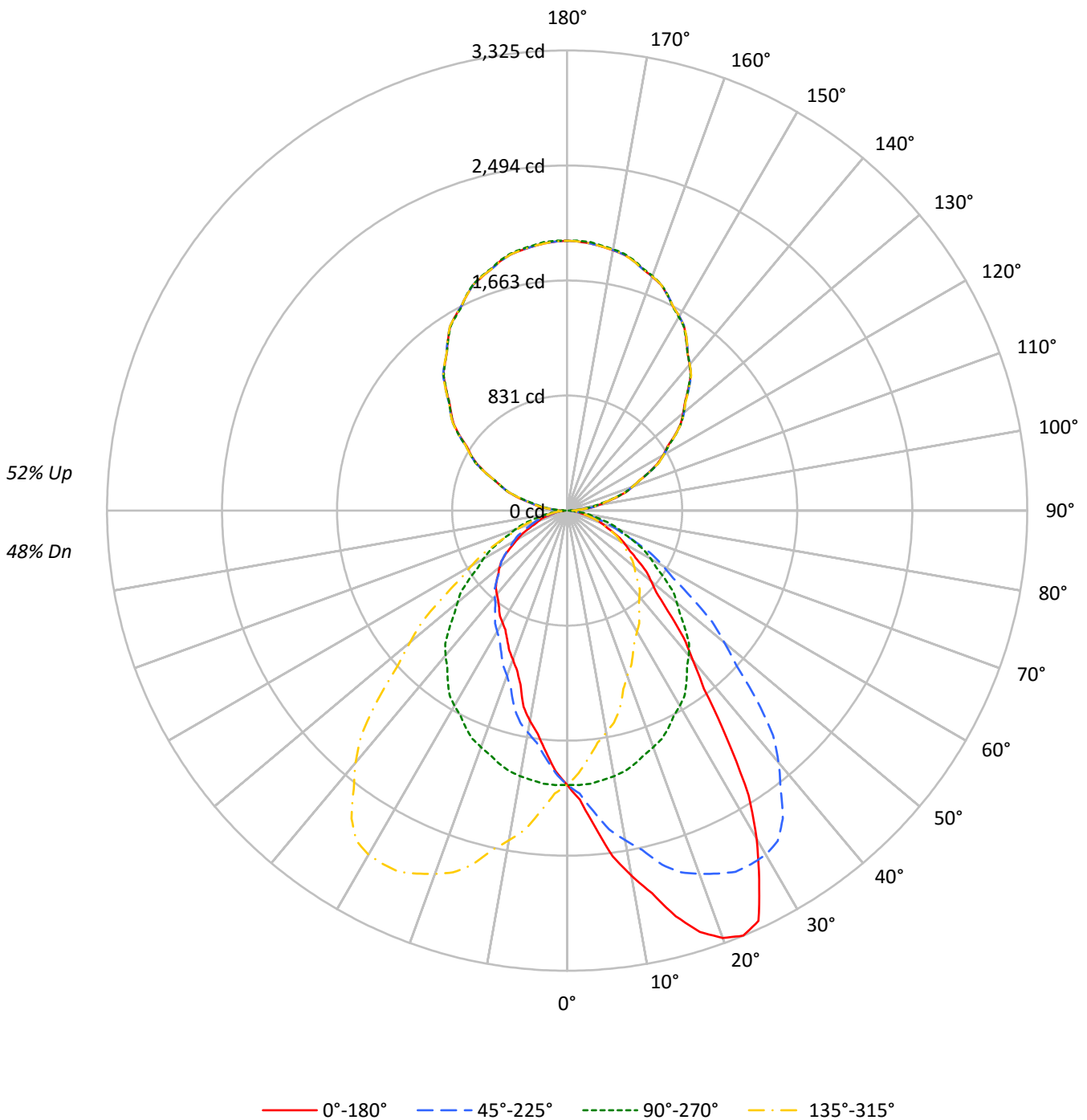
Input Watts (W): 82.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	98	94	90	87	90	86	83	80	73	71	68	60	59	57	49	48	47	41
2	89	82	76	71	82	76	71	67	64	61	57	53	51	49	43	42	40	35
3	82	73	66	60	75	67	61	56	57	52	49	48	44	42	39	37	35	30
4	75	65	57	51	69	60	53	48	51	46	42	43	39	36	35	32	30	26
5	69	58	50	44	63	54	47	41	46	40	36	38	34	31	32	29	26	23
6	64	52	44	38	58	48	41	36	41	36	32	35	31	28	29	26	23	21
7	59	47	39	34	54	44	37	32	38	32	28	32	28	25	26	23	21	18
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19	16
9	51	39	32	27	47	36	30	25	31	26	22	27	23	20	22	19	17	15
10	48	36	29	24	44	33	27	23	29	24	20	25	21	18	21	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15998	15998	15998	15998
5°	18556	16046	14182	16046
10°	21952	15976	12658	15976
15°	25357	15828	10877	15828
20°	28233	15625	9836	15625
25°	29144	15425	9132	15425
30°	25513	15183	8708	15183
35°	19860	14824	8451	14824
40°	14893	14413	8313	14413
45°	11758	13755	8241	13755
50°	9927	12995	8002	12995
55°	8653	12159	7574	12159
60°	7786	11292	6704	11292
65°	6863	10355	5765	10355
70°	6182	9385	5202	9385
75°	5181	8319	4432	8319
80°	4379	7090	4156	7090
85°	3696	5548	3696	5548



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.0	1.8
10°-20°	579.2	5.6
20°-30°	905.9	8.7
30°-40°	1007.1	9.7
40°-50°	893.5	8.6
50°-60°	696.2	6.7
60°-70°	455.8	4.4
70°-80°	224.2	2.2
80°-90°	61.1	0.6
90°-100°	128.6	1.2
100°-110°	380.9	3.7
110°-120°	646.6	6.2
120°-130°	852.5	8.2
130°-140°	957.5	9.2
140°-150°	940.9	9.0
150°-160°	791.3	7.6
160°-170°	526.5	5.1
170°-180°	184.4	1.8
0°-30°	1677.1	16.1
0°-40°	2684.1	25.7
0°-60°	4273.8	41.0
0°-90°	5015.0	48.1
90°-120°	1156.1	11.1
90°-150°	3906.9	37.5
90°-180°	5409.0	51.9
0°-180°	10424.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1982	1982	1982	1982	1982	
5°	2290	1980	1750	1980	2290	232
15°	3034	1894	1301	1894	3034	863
25°	3272	1732	1025	1732	3272	1452
35°	2015	1504	858	1504	2015	1263
45°	1030	1205	722	1205	1030	816
55°	615	864	538	864	615	559
65°	359	542	302	542	359	361
75°	166	267	142	267	166	183
85°	40	60	40	60	40	46
90°	45	4	45	4	45	25
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	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	2090.2	2096.0	2090.2	2089.6	2083.2	2081.3	2078.7	2070.4	2055.1	2046.2	2048.1
5°	2289.8	2309.8	2298.6	2297.0	2279.5	2261.9	2250.7	2225.2	2198.0	2179.7	2164.5
7.5°	2520.7	2532.2	2525.2	2514.0	2485.6	2469.5	2443.6	2409.9	2361.2	2324.0	2290.0
10°	2677.9	2687.4	2684.3	2663.5	2642.7	2600.4	2576.5	2529.4	2467.9	2419.2	2373.7
12.5°	2832.4	2842.7	2814.6	2815.5	2776.2	2742.9	2704.9	2645.6	2574.6	2511.8	2454.8
15°	3034.0	3021.2	3021.2	3005.2	2961.3	2915.0	2875.9	2813.6	2724.2	2649.1	2570.1
17.5°	3191.7	3196.2	3189.6	3152.0	3117.5	3069.6	2997.9	2925.2	2842.2	2741.4	2660.6
20°	3286.3	3286.3	3279.1	3253.5	3208.8	3157.7	3080.3	3001.2	2895.8	2794.4	2703.4
22.5°	3324.6	3327.1	3318.7	3297.6	3257.4	3207.5	3141.6	3061.3	2952.7	2838.5	2725.8
25°	3271.9	3287.1	3288.6	3283.1	3271.1	3240.7	3184.1	3101.8	3004.4	2880.7	2759.3
27.5°	3003.9	3023.1	3039.9	3067.5	3104.2	3123.4	3125.9	3084.1	2999.1	2880.0	2757.9
30°	2736.9	2752.9	2804.8	2872.7	2925.4	2973.3	3014.8	3026.0	2978.1	2871.1	2742.5
32.5°	2440.6	2462.3	2514.2	2587.2	2675.0	2756.1	2849.4	2896.9	2895.7	2831.5	2712.5
35°	2015.2	2031.2	2079.1	2155.7	2261.1	2381.7	2529.4	2644.3	2722.6	2717.0	2644.3
37.5°	1625.2	1643.3	1691.7	1755.2	1857.4	2006.7	2149.6	2308.0	2452.7	2534.0	2509.7
40°	1413.2	1414.0	1461.1	1526.6	1622.4	1752.5	1908.2	2083.8	2245.1	2376.9	2402.4
42.5°	1245.8	1246.0	1277.1	1347.7	1416.7	1539.2	1687.8	1862.2	2051.0	2203.1	2270.8
45°	1029.9	1037.1	1062.7	1105.0	1159.3	1263.1	1382.0	1544.1	1755.7	1936.1	2048.7
47.5°	872.2	882.7	899.0	933.5	976.8	1045.9	1144.3	1289.9	1462.0	1660.5	1820.7
50°	790.4	792.0	812.8	831.9	869.5	924.6	1010.8	1132.1	1290.2	1481.0	1659.1
52.5°	720.2	719.8	732.3	756.6	787.1	830.0	899.6	1010.1	1150.3	1321.4	1505.2
55°	614.8	618.8	628.3	647.5	670.7	701.0	756.1	839.1	949.3	1095.4	1262.3
57.5°	534.6	536.7	544.2	552.3	573.6	595.6	637.0	694.6	787.6	907.2	1062.7
60°	482.2	483.0	485.4	497.4	514.2	534.9	562.9	611.6	689.8	799.2	922.2
62.5°	431.1	432.6	436.3	445.0	458.0	472.3	501.6	540.7	605.5	698.9	809.7
65°	359.3	360.1	365.7	368.9	379.2	392.0	413.6	439.9	484.6	562.9	646.7
67.5°	300.2	300.2	300.5	304.8	312.0	320.5	333.4	354.5	388.2	436.3	510.2
70°	261.9	261.9	263.5	265.9	269.9	277.0	284.2	300.2	325.0	364.1	420.8
72.5°	226.1	226.7	228.3	228.8	230.9	236.8	242.1	252.3	270.7	300.2	346.0
75°	166.1	168.5	172.5	175.7	179.6	178.8	184.4	190.8	196.4	214.0	240.3
77.5°	123.6	122.3	122.8	125.5	126.0	126.8	130.8	135.7	139.9	148.2	157.6
80°	94.2	94.2	96.6	97.4	96.6	97.4	101.4	103.8	105.4	108.6	117.4
82.5°	71.2	72.5	71.7	72.5	73.0	73.8	77.1	77.6	79.2	80.5	84.2
85°	39.9	40.7	41.5	39.9	39.9	39.9	41.5	42.3	43.9	43.1	44.7
87.5°	23.1	22.3	22.8	22.7	23.2	22.3	22.5	23.4	21.7	22.0	21.4
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



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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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	2041.7	2032.8	2028.3	2018.1	2005.9	1999.5	1993.8	1985.5	1974.6	1963.1	1954.8
5°	2145.3	2126.2	2102.2	2073.5	2047.9	2023.2	2001.6	1980.1	1955.3	1929.8	1904.2
7.5°	2251.7	2214.0	2173.3	2126.2	2080.3	2038.7	2000.3	1963.6	1922.1	1884.9	1851.0
10°	2325.8	2274.7	2218.0	2158.1	2098.2	2046.3	1995.2	1948.9	1897.8	1852.3	1814.0
12.5°	2385.8	2325.8	2257.6	2183.0	2111.0	2048.2	1989.5	1929.1	1871.0	1821.7	1770.6
15°	2485.4	2403.2	2311.4	2222.0	2128.6	2043.1	1964.1	1893.8	1827.6	1758.1	1709.4
17.5°	2554.0	2456.4	2344.8	2237.3	2127.0	2026.2	1935.0	1851.4	1774.9	1704.0	1646.0
20°	2594.8	2487.0	2363.3	2241.1	2117.4	2009.6	1911.4	1818.8	1739.7	1663.1	1603.2
22.5°	2617.8	2498.5	2363.3	2235.4	2107.2	1990.4	1882.6	1786.2	1700.1	1623.5	1557.2
25°	2625.2	2497.4	2359.3	2212.4	2071.9	1948.1	1836.3	1731.7	1635.9	1559.3	1489.0
27.5°	2615.0	2464.5	2323.1	2172.3	2027.3	1896.9	1779.5	1669.6	1573.7	1491.4	1419.4
30°	2599.6	2438.3	2286.6	2130.2	1983.2	1857.9	1734.1	1628.8	1529.0	1443.5	1370.9
32.5°	2566.4	2406.4	2243.2	2082.9	1934.1	1804.9	1687.5	1581.5	1483.6	1396.3	1319.1
35°	2500.6	2338.5	2161.3	1996.8	1850.7	1716.6	1606.4	1504.2	1410.8	1317.4	1235.9
37.5°	2413.9	2248.3	2072.0	1891.9	1745.6	1619.0	1517.9	1422.0	1330.8	1245.5	1155.3
40°	2332.2	2181.3	1999.2	1820.4	1670.3	1548.1	1454.7	1367.7	1275.9	1191.2	1101.0
42.5°	2233.2	2104.6	1920.7	1741.2	1593.0	1475.3	1388.3	1303.2	1219.7	1137.6	1043.5
45°	2067.9	1970.5	1798.0	1625.6	1476.3	1359.7	1279.9	1204.8	1131.3	1053.1	964.5
47.5°	1878.5	1812.5	1663.7	1487.1	1349.0	1244.1	1167.0	1105.6	1043.5	965.3	887.5
50°	1746.9	1704.6	1560.9	1399.6	1267.9	1171.3	1092.2	1034.7	982.8	907.8	838.3
52.5°	1606.4	1583.9	1462.5	1308.3	1181.0	1086.3	1018.8	967.0	914.5	852.2	787.2
55°	1392.4	1404.4	1301.4	1168.1	1048.3	968.5	907.0	863.9	819.2	766.5	716.2
57.5°	1173.7	1217.4	1148.3	1031.2	919.0	845.2	798.9	762.6	725.1	681.4	638.4
60°	1042.7	1079.4	1040.3	937.3	839.1	770.5	727.4	699.4	661.9	622.0	589.2
62.5°	915.0	954.3	931.1	847.9	756.7	697.7	659.6	633.6	605.7	570.9	536.9
65°	754.5	780.0	768.9	711.4	646.7	596.4	561.3	542.1	516.6	491.0	460.7
67.5°	577.9	627.2	620.7	590.2	534.3	495.0	472.0	455.1	431.8	412.8	392.2
70°	475.1	520.6	519.8	495.0	464.7	427.9	412.0	397.6	376.8	358.5	341.7
72.5°	388.8	430.5	436.7	417.7	397.0	369.2	353.9	344.0	323.8	311.2	297.6
75°	272.3	302.6	310.6	310.6	301.0	286.6	273.1	266.7	252.3	241.1	233.1
77.5°	178.5	197.7	210.1	213.0	214.5	209.7	198.5	194.0	183.0	179.0	171.3
80°	126.1	138.9	153.3	158.1	162.1	160.5	155.7	152.5	142.1	138.1	134.9
82.5°	87.2	94.2	106.0	116.6	115.4	119.6	115.4	112.9	105.1	103.6	100.4
85°	45.5	46.3	47.9	55.1	59.1	60.7	61.5	59.9	57.5	57.5	51.9
87.5°	20.9	19.7	20.5	19.8	19.7	21.5	22.7	22.6	21.4	20.3	19.1
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: P333112

CATALOG NUMBER: S124RDIW-S1195D1560U835-4F0-1E-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: P333112

CATALOG NUMBER: S124RDIW-S1195D1560U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	1945.9	1939.5	1931.2	1921.6	1910.1	1899.9	1895.4	1899.3	1901.2	1896.1	1895.4
5°	1886.6	1866.7	1850.7	1826.8	1807.6	1791.6	1780.5	1775.7	1777.3	1764.5	1761.3
7.5°	1820.1	1796.4	1770.2	1741.8	1715.3	1691.8	1679.5	1672.8	1659.3	1653.5	1643.8
10°	1777.3	1745.3	1719.8	1686.2	1655.9	1628.0	1614.4	1603.2	1589.6	1583.2	1569.7
12.5°	1733.2	1696.1	1668.0	1633.2	1602.2	1568.6	1555.6	1534.9	1513.6	1500.2	1482.8
15°	1671.1	1626.4	1592.0	1550.5	1513.8	1475.5	1441.1	1402.8	1388.4	1358.1	1340.5
17.5°	1598.4	1553.1	1510.6	1454.9	1398.2	1350.6	1314.0	1277.3	1255.3	1235.9	1227.0
20°	1550.5	1509.0	1449.9	1385.2	1322.2	1269.5	1239.9	1216.0	1192.0	1178.5	1168.9
22.5°	1505.2	1452.1	1383.5	1313.7	1250.6	1209.4	1184.4	1159.8	1140.3	1127.4	1114.6
25°	1429.2	1359.7	1287.0	1207.2	1164.1	1128.2	1101.0	1081.0	1069.1	1052.3	1045.9
27.5°	1351.1	1266.9	1186.8	1133.1	1088.2	1055.3	1031.7	1016.7	1001.5	990.8	982.5
30°	1291.0	1205.6	1133.7	1082.6	1037.1	1010.0	990.8	973.3	961.3	952.5	946.1
32.5°	1231.6	1146.2	1085.8	1030.9	995.0	968.5	948.0	934.9	925.5	914.2	910.3
35°	1145.7	1069.9	1017.2	967.7	930.9	907.0	891.0	877.5	869.5	866.3	863.9
37.5°	1063.2	1001.0	944.4	903.8	871.1	852.2	833.4	826.7	821.2	815.5	818.1
40°	1010.8	952.5	902.2	859.1	832.7	812.0	800.8	792.8	788.0	788.0	788.0
42.5°	965.4	908.4	859.4	820.8	794.4	776.9	764.4	757.7	756.1	755.5	759.3
45°	895.0	842.3	792.8	760.9	738.5	721.0	713.8	708.2	708.2	711.4	712.2
47.5°	825.2	775.9	736.1	700.4	679.9	668.9	662.7	659.8	660.1	663.3	667.0
50°	782.4	733.7	694.6	662.7	643.5	633.1	627.5	626.0	627.5	627.5	633.1
52.5°	735.8	692.2	653.7	626.9	605.2	595.5	592.4	590.2	591.1	593.7	596.1
55°	667.5	628.3	591.6	566.1	550.1	543.7	536.5	537.3	535.7	537.3	537.3
57.5°	599.0	563.8	529.7	509.4	495.3	486.1	478.2	480.5	478.1	477.8	476.5
60°	554.9	516.6	489.4	471.1	455.1	447.1	439.9	441.5	439.1	437.5	434.3
62.5°	507.0	475.1	449.2	431.5	418.7	409.4	402.2	400.6	395.1	389.6	382.6
65°	437.5	411.2	388.0	371.3	359.3	352.1	346.5	341.7	329.7	317.0	310.6
67.5°	370.0	351.0	329.4	315.2	305.5	296.1	285.4	277.2	266.0	259.0	255.0
70°	326.5	308.2	289.8	276.2	265.9	257.1	245.1	239.5	231.5	228.3	224.4
72.5°	285.0	267.9	250.9	238.6	227.5	220.7	211.3	205.7	202.2	200.9	196.9
75°	222.0	208.4	195.6	184.4	175.7	170.9	166.9	162.9	161.3	154.1	150.1
77.5°	161.9	153.0	145.0	137.0	130.8	127.6	119.9	115.3	112.6	109.2	108.4
80°	126.1	119.8	111.8	107.0	98.2	95.0	91.8	91.0	90.2	89.4	88.6
82.5°	94.9	88.5	80.5	77.6	75.2	73.3	71.4	70.6	69.8	70.3	70.1
85°	47.9	44.7	44.7	43.9	43.1	42.3	41.5	41.5	40.7	41.5	40.7
87.5°	19.8	19.8	20.4	19.6	20.8	21.3	21.1	21.5	22.5	21.7	21.9
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: P333112

CATALOG NUMBER: S124RDIW-S1195D1560U835-4F0-1E-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: P333112

CATALOG NUMBER: S124RDIW-S1195D1560U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	1891.6	1892.9	1888.4	1887.1	1888.4	1892.9	1891.6	1895.4	1896.1	1901.2	1899.3
5°	1754.9	1753.3	1749.3	1750.1	1749.3	1753.3	1754.9	1761.3	1764.5	1777.3	1775.7
7.5°	1638.0	1631.8	1633.5	1627.2	1633.5	1631.8	1638.0	1643.8	1653.5	1659.3	1672.8
10°	1566.5	1557.7	1550.5	1544.1	1550.5	1557.7	1566.5	1569.7	1583.2	1589.6	1603.2
12.5°	1468.8	1461.2	1451.5	1453.4	1451.5	1461.2	1468.8	1482.8	1500.2	1513.6	1534.9
15°	1330.1	1318.2	1299.0	1301.4	1299.0	1318.2	1330.1	1340.5	1358.1	1388.4	1402.8
17.5°	1212.8	1212.9	1204.2	1206.2	1204.2	1212.9	1212.8	1227.0	1235.9	1255.3	1277.3
20°	1152.1	1146.5	1147.3	1144.9	1147.3	1146.5	1152.1	1168.9	1178.5	1192.0	1216.0
22.5°	1109.9	1103.1	1097.5	1092.5	1097.5	1103.1	1109.9	1114.6	1127.4	1140.3	1159.8
25°	1038.7	1033.9	1026.8	1025.2	1026.8	1033.9	1038.7	1045.9	1052.3	1069.1	1081.0
27.5°	976.1	975.2	972.3	968.6	972.3	975.2	976.1	982.5	990.8	1001.5	1016.7
30°	939.7	938.1	936.5	934.1	936.5	938.1	939.7	946.1	952.5	961.3	973.3
32.5°	907.2	906.2	904.6	904.8	904.6	906.2	907.2	910.3	914.2	925.5	934.9
35°	860.7	859.9	858.3	857.5	858.3	859.9	860.7	863.9	866.3	869.5	877.5
37.5°	817.3	819.3	818.4	818.2	818.4	819.3	817.3	818.1	815.5	821.2	826.7
40°	787.2	788.0	789.6	788.8	789.6	788.0	787.2	788.0	788.0	788.0	792.8
42.5°	762.3	762.5	764.7	762.0	764.7	762.5	762.3	759.3	755.5	756.1	757.7
45°	717.8	722.6	721.8	721.8	721.8	722.6	717.8	712.2	711.4	708.2	708.2
47.5°	669.1	673.2	674.3	674.2	674.3	673.2	669.1	667.0	663.3	660.1	659.8
50°	637.1	635.5	637.9	637.1	637.9	635.5	637.1	633.1	627.5	627.5	626.0
52.5°	598.2	598.5	598.3	597.5	598.3	598.5	598.2	596.1	593.7	591.1	590.2
55°	538.1	538.9	537.3	538.1	537.3	538.9	538.1	537.3	537.3	535.7	537.3
57.5°	473.0	469.1	470.7	468.8	470.7	469.1	473.0	476.5	477.8	478.1	480.5
60°	426.4	420.0	418.4	415.2	418.4	420.0	426.4	434.3	437.5	439.1	441.5
62.5°	374.0	369.5	364.1	366.6	364.1	369.5	374.0	382.6	389.6	395.1	400.6
65°	304.2	301.0	298.6	301.8	298.6	301.0	304.2	310.6	317.0	329.7	341.7
67.5°	251.8	250.1	250.1	248.5	250.1	250.1	251.8	255.0	259.0	266.0	277.2
70°	224.4	222.0	222.0	220.4	222.0	222.0	224.4	224.4	228.3	231.5	239.5
72.5°	196.2	193.9	194.5	193.5	194.5	193.9	196.2	196.9	200.9	202.2	205.7
75°	145.3	141.3	141.3	142.1	141.3	141.3	145.3	150.1	154.1	161.3	162.9
77.5°	108.4	107.6	108.7	107.3	108.7	107.6	108.4	108.4	109.2	112.6	115.3
80°	88.6	87.8	87.0	89.4	87.0	87.8	88.6	88.6	89.4	90.2	91.0
82.5°	68.8	68.7	68.5	71.5	68.5	68.7	68.8	70.1	70.3	69.8	70.6
85°	41.5	39.9	41.5	39.9	41.5	39.9	41.5	40.7	41.5	40.7	41.5
87.5°	23.3	22.8	22.3	23.1	22.3	22.8	23.3	21.9	21.7	22.5	21.5
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: P333112

CATALOG NUMBER: S124RDIW-S1195D1560U835-4F0-1E-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: P333112

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	1895.4	1899.9	1910.1	1921.6	1931.2	1939.5	1945.9	1954.8	1963.1	1974.6	1985.5
5°	1780.5	1791.6	1807.6	1826.8	1850.7	1866.7	1886.6	1904.2	1929.8	1955.3	1980.1
7.5°	1679.5	1691.8	1715.3	1741.8	1770.2	1796.4	1820.1	1851.0	1884.9	1922.1	1963.6
10°	1614.4	1628.0	1655.9	1686.2	1719.8	1745.3	1777.3	1814.0	1852.3	1897.8	1948.9
12.5°	1555.6	1568.6	1602.2	1633.2	1668.0	1696.1	1733.2	1770.6	1821.7	1871.0	1929.1
15°	1441.1	1475.5	1513.8	1550.5	1592.0	1626.4	1671.1	1709.4	1758.1	1827.6	1893.8
17.5°	1314.0	1350.6	1398.2	1454.9	1510.6	1553.1	1598.4	1646.0	1704.0	1774.9	1851.4
20°	1239.9	1269.5	1322.2	1385.2	1449.9	1509.0	1550.5	1603.2	1663.1	1739.7	1818.8
22.5°	1184.4	1209.4	1250.6	1313.7	1383.5	1452.1	1505.2	1557.2	1623.5	1700.1	1786.2
25°	1101.0	1128.2	1164.1	1207.2	1287.0	1359.7	1429.2	1489.0	1559.3	1635.9	1731.7
27.5°	1031.7	1055.3	1088.2	1133.1	1186.8	1266.9	1351.1	1419.4	1491.4	1573.7	1669.6
30°	990.8	1010.0	1037.1	1082.6	1133.7	1205.6	1291.0	1370.9	1443.5	1529.0	1628.8
32.5°	948.0	968.5	995.0	1030.9	1085.8	1146.2	1231.6	1319.1	1396.3	1483.6	1581.5
35°	891.0	907.0	930.9	967.7	1017.2	1069.9	1145.7	1235.9	1317.4	1410.8	1504.2
37.5°	833.4	852.2	871.1	903.8	944.4	1001.0	1063.2	1155.3	1245.5	1330.8	1422.0
40°	800.8	812.0	832.7	859.1	902.2	952.5	1010.8	1101.0	1191.2	1275.9	1367.7
42.5°	764.4	776.9	794.4	820.8	859.4	908.4	965.4	1043.5	1137.6	1219.7	1303.2
45°	713.8	721.0	738.5	760.9	792.8	842.3	895.0	964.5	1053.1	1131.3	1204.8
47.5°	662.7	668.9	679.9	700.4	736.1	775.9	825.2	887.5	965.3	1043.5	1105.6
50°	627.5	633.1	643.5	662.7	694.6	733.7	782.4	838.3	907.8	982.8	1034.7
52.5°	592.4	595.5	605.2	626.9	653.7	692.2	735.8	787.2	852.2	914.5	967.0
55°	536.5	543.7	550.1	566.1	591.6	628.3	667.5	716.2	766.5	819.2	863.9
57.5°	478.2	486.1	495.3	509.4	529.7	563.8	599.0	638.4	681.4	725.1	762.6
60°	439.9	447.1	455.1	471.1	489.4	516.6	554.9	589.2	622.0	661.9	699.4
62.5°	402.2	409.4	418.7	431.5	449.2	475.1	507.0	536.9	570.9	605.7	633.6
65°	346.5	352.1	359.3	371.3	388.0	411.2	437.5	460.7	491.0	516.6	542.1
67.5°	285.4	296.1	305.5	315.2	329.4	351.0	370.0	392.2	412.8	431.8	455.1
70°	245.1	257.1	265.9	276.2	289.8	308.2	326.5	341.7	358.5	376.8	397.6
72.5°	211.3	220.7	227.5	238.6	250.9	267.9	285.0	297.6	311.2	323.8	344.0
75°	166.9	170.9	175.7	184.4	195.6	208.4	222.0	233.1	241.1	252.3	266.7
77.5°	119.9	127.6	130.8	137.0	145.0	153.0	161.9	171.3	179.0	183.0	194.0
80°	91.8	95.0	98.2	107.0	111.8	119.8	126.1	134.9	138.1	142.1	152.5
82.5°	71.4	73.3	75.2	77.6	80.5	88.5	94.9	100.4	103.6	105.1	112.9
85°	41.5	42.3	43.1	43.9	44.7	44.7	47.9	51.9	57.5	57.5	59.9
87.5°	21.1	21.3	20.8	19.6	20.4	19.8	19.8	19.1	20.3	21.4	22.6
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: P333112

CATALOG NUMBER: S124RDIW-S1195D1560U835-4F0-1E-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: P333112

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	1993.8	1999.5	2005.9	2018.1	2028.3	2032.8	2041.7	2048.1	2046.2	2055.1	2070.4
5°	2001.6	2023.2	2047.9	2073.5	2102.2	2126.2	2145.3	2164.5	2179.7	2198.0	2225.2
7.5°	2000.3	2038.7	2080.3	2126.2	2173.3	2214.0	2251.7	2290.0	2324.0	2361.2	2409.9
10°	1995.2	2046.3	2098.2	2158.1	2218.0	2274.7	2325.8	2373.7	2419.2	2467.9	2529.4
12.5°	1989.5	2048.2	2111.0	2183.0	2257.6	2325.8	2385.8	2454.8	2511.8	2574.6	2645.6
15°	1964.1	2043.1	2128.6	2222.0	2311.4	2403.2	2485.4	2570.1	2649.1	2724.2	2813.6
17.5°	1935.0	2026.2	2127.0	2237.3	2344.8	2456.4	2554.0	2660.6	2741.4	2842.2	2925.2
20°	1911.4	2009.6	2117.4	2241.1	2363.3	2487.0	2594.8	2703.4	2794.4	2895.8	3001.2
22.5°	1882.6	1990.4	2107.2	2235.4	2363.3	2498.5	2617.8	2725.8	2838.5	2952.7	3061.3
25°	1836.3	1948.1	2071.9	2212.4	2359.3	2497.4	2625.2	2759.3	2880.7	3004.4	3101.8
27.5°	1779.5	1896.9	2027.3	2172.3	2323.1	2464.5	2615.0	2757.9	2880.0	2999.1	3084.1
30°	1734.1	1857.9	1983.2	2130.2	2286.6	2438.3	2599.6	2742.5	2871.1	2978.1	3026.0
32.5°	1687.5	1804.9	1934.1	2082.9	2243.2	2406.4	2566.4	2712.5	2831.5	2895.7	2896.9
35°	1606.4	1716.6	1850.7	1996.8	2161.3	2338.5	2500.6	2644.3	2717.0	2722.6	2644.3
37.5°	1517.9	1619.0	1745.6	1891.9	2072.0	2248.3	2413.9	2509.7	2534.0	2452.7	2308.0
40°	1454.7	1548.1	1670.3	1820.4	1999.2	2181.3	2332.2	2402.4	2376.9	2245.1	2083.8
42.5°	1388.3	1475.3	1593.0	1741.2	1920.7	2104.6	2233.2	2270.8	2203.1	2051.0	1862.2
45°	1279.9	1359.7	1476.3	1625.6	1798.0	1970.5	2067.9	2048.7	1936.1	1755.7	1544.1
47.5°	1167.0	1244.1	1349.0	1487.1	1663.7	1812.5	1878.5	1820.7	1660.5	1462.0	1289.9
50°	1092.2	1171.3	1267.9	1399.6	1560.9	1704.6	1746.9	1659.1	1481.0	1290.2	1132.1
52.5°	1018.8	1086.3	1181.0	1308.3	1462.5	1583.9	1606.4	1505.2	1321.4	1150.3	1010.1
55°	907.0	968.5	1048.3	1168.1	1301.4	1404.4	1392.4	1262.3	1095.4	949.3	839.1
57.5°	798.9	845.2	919.0	1031.2	1148.3	1217.4	1173.7	1062.7	907.2	787.6	694.6
60°	727.4	770.5	839.1	937.3	1040.3	1079.4	1042.7	922.2	799.2	689.8	611.6
62.5°	659.6	697.7	756.7	847.9	931.1	954.3	915.0	809.7	698.9	605.5	540.7
65°	561.3	596.4	646.7	711.4	768.9	780.0	754.5	646.7	562.9	484.6	439.9
67.5°	472.0	495.0	534.3	590.2	620.7	627.2	577.9	510.2	436.3	388.2	354.5
70°	412.0	427.9	464.7	495.0	519.8	520.6	475.1	420.8	364.1	325.0	300.2
72.5°	353.9	369.2	397.0	417.7	436.7	430.5	388.8	346.0	300.2	270.7	252.3
75°	273.1	286.6	301.0	310.6	310.6	302.6	272.3	240.3	214.0	196.4	190.8
77.5°	198.5	209.7	214.5	213.0	210.1	197.7	178.5	157.6	148.2	139.9	135.7
80°	155.7	160.5	162.1	158.1	153.3	138.9	126.1	117.4	108.6	105.4	103.8
82.5°	115.4	119.6	115.4	116.6	106.0	94.2	87.2	84.2	80.5	79.2	77.6
85°	61.5	60.7	59.1	55.1	47.9	46.3	45.5	44.7	43.1	43.9	42.3
87.5°	22.7	21.5	19.7	19.8	20.5	19.7	20.9	21.4	22.0	21.7	23.4
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



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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



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	2078.7	2081.3	2083.2	2089.6	2090.2	2096.0	2090.2
5°	2250.7	2261.9	2279.5	2297.0	2298.6	2309.8	2289.8
7.5°	2443.6	2469.5	2485.6	2514.0	2525.2	2532.2	2520.7
10°	2576.5	2600.4	2642.7	2663.5	2684.3	2687.4	2677.9
12.5°	2704.9	2742.9	2776.2	2815.5	2814.6	2842.7	2832.4
15°	2875.9	2915.0	2961.3	3005.2	3021.2	3021.2	3034.0
17.5°	2997.9	3069.6	3117.5	3152.0	3189.6	3196.2	3191.7
20°	3080.3	3157.7	3208.8	3253.5	3279.1	3286.3	3286.3
22.5°	3141.6	3207.5	3257.4	3297.6	3318.7	3327.1	3324.6
25°	3184.1	3240.7	3271.1	3283.1	3288.6	3287.1	3271.9
27.5°	3125.9	3123.4	3104.2	3067.5	3039.9	3023.1	3003.9
30°	3014.8	2973.3	2925.4	2872.7	2804.8	2752.9	2736.9
32.5°	2849.4	2756.1	2675.0	2587.2	2514.2	2462.3	2440.6
35°	2529.4	2381.7	2261.1	2155.7	2079.1	2031.2	2015.2
37.5°	2149.6	2006.7	1857.4	1755.2	1691.7	1643.3	1625.2
40°	1908.2	1752.5	1622.4	1526.6	1461.1	1414.0	1413.2
42.5°	1687.8	1539.2	1416.7	1347.7	1277.1	1246.0	1245.8
45°	1382.0	1263.1	1159.3	1105.0	1062.7	1037.1	1029.9
47.5°	1144.3	1045.9	976.8	933.5	899.0	882.7	872.2
50°	1010.8	924.6	869.5	831.9	812.8	792.0	790.4
52.5°	899.6	830.0	787.1	756.6	732.3	719.8	720.2
55°	756.1	701.0	670.7	647.5	628.3	618.8	614.8
57.5°	637.0	595.6	573.6	552.3	544.2	536.7	534.6
60°	562.9	534.9	514.2	497.4	485.4	483.0	482.2
62.5°	501.6	472.3	458.0	445.0	436.3	432.6	431.1
65°	413.6	392.0	379.2	368.9	365.7	360.1	359.3
67.5°	333.4	320.5	312.0	304.8	300.5	300.2	300.2
70°	284.2	277.0	269.9	265.9	263.5	261.9	261.9
72.5°	242.1	236.8	230.9	228.8	228.3	226.7	226.1
75°	184.4	178.8	179.6	175.7	172.5	168.5	166.1
77.5°	130.8	126.8	126.0	125.5	122.8	122.3	123.6
80°	101.4	97.4	96.6	97.4	96.6	94.2	94.2
82.5°	77.1	73.8	73.0	72.5	71.7	72.5	71.2
85°	41.5	39.9	39.9	39.9	41.5	40.7	39.9
87.5°	22.5	22.3	23.2	22.7	22.8	22.3	23.1
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



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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)