

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

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333111
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-S1195D1560U835-4F0-1E-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: 11251.9 lumens
Efficiency: N/A
Efficacy: 135.7 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

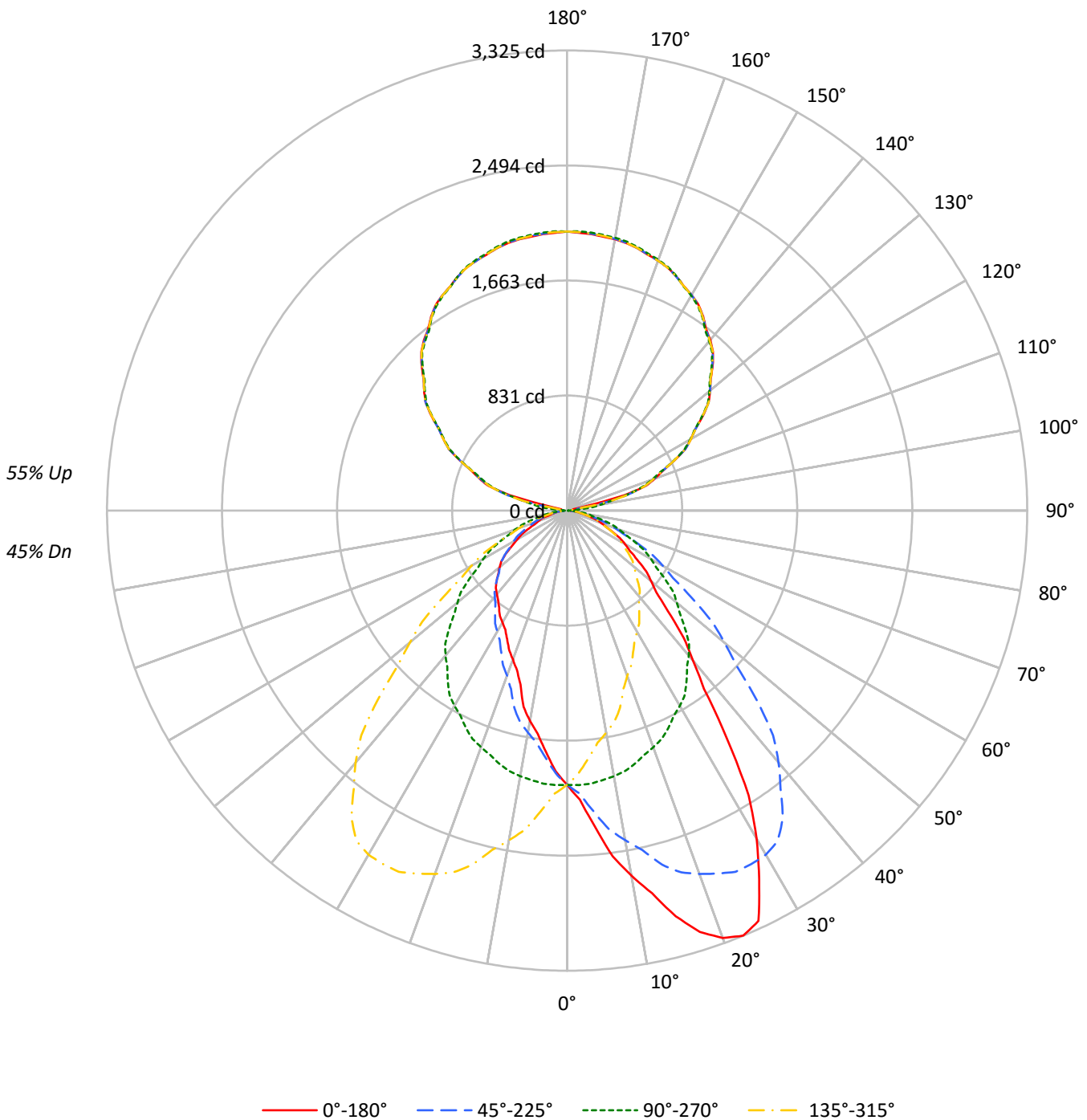
Input Watts (W): 82.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	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	1.7
10°-20°	579.2	5.1
20°-30°	905.9	8.1
30°-40°	1007.1	9.0
40°-50°	893.5	7.9
50°-60°	696.2	6.2
60°-70°	455.8	4.1
70°-80°	224.2	2.0
80°-90°	61.1	0.5
90°-100°	69.0	0.6
100°-110°	439.7	3.9
110°-120°	841.1	7.5
120°-130°	1067.8	9.5
130°-140°	1142.4	10.2
140°-150°	1068.3	9.5
150°-160°	861.5	7.7
160°-170°	555.6	4.9
170°-180°	191.5	1.7
0°-30°	1677.1	14.9
0°-40°	2684.1	23.9
0°-60°	4273.8	38.0
0°-90°	5015.0	44.6
90°-120°	1349.8	12.0
90°-150°	4628.2	41.1
90°-180°	6237.0	55.4
0°-180°	11251.9	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	21
95°	44	83	44	83	44	35
105°	430	454	430	454	430	375
115°	854	848	854	848	854	845
125°	1200	1191	1200	1191	1200	1069
135°	1488	1478	1488	1478	1488	1146
145°	1713	1704	1713	1704	1713	1071
155°	1867	1868	1867	1868	1867	861
165°	1962	1971	1962	1971	1962	554
175°	2004	2016	2004	2016	2004	191
180°	2016	2016	2016	2016	2016	



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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°	41.6	41.5	41.4	41.2	41.1	40.0	38.0	36.0	34.0	32.0	29.3
95°	43.7	43.4	43.1	42.7	42.4	41.2	39.2	37.2	35.2	33.2	32.8
97.5°	42.2	41.9	41.6	41.2	40.9	40.6	40.4	40.2	40.0	39.8	77.2
100°	42.2	41.9	41.6	41.2	40.9	43.6	49.3	55.0	60.7	66.4	112.6
102.5°	43.4	43.4	43.3	43.2	43.2	73.9	135.3	196.8	258.2	319.7	325.7
105°	429.8	441.9	453.9	466.0	478.0	482.6	479.6	476.5	473.5	470.5	468.8
107.5°	599.0	597.7	596.4	595.2	593.9	592.5	591.1	589.6	588.1	586.6	584.3
110°	672.6	671.6	670.6	669.6	668.6	667.7	667.1	666.4	665.7	665.0	663.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	746.2	744.9	743.6	742.4	741.1	740.5	740.6	740.8	740.9	741.1	740.1
115°	853.6	853.6	853.6	853.6	853.6	853.2	852.5	851.9	851.2	850.5	850.9
117.5°	962.7	962.9	963.0	963.1	963.3	963.4	963.5	963.7	963.8	963.9	963.2
120°	1031.5	1032.2	1032.8	1033.5	1034.2	1034.2	1033.5	1032.8	1032.2	1031.5	1031.8
122.5°	1099.1	1099.7	1100.4	1101.1	1101.7	1101.9	1101.5	1101.1	1100.7	1100.3	1099.8
125°	1200.4	1200.1	1199.7	1199.4	1199.1	1198.4	1197.4	1196.4	1195.4	1194.4	1195.0
127.5°	1289.4	1289.6	1289.9	1290.2	1290.4	1290.7	1290.9	1291.1	1291.3	1291.5	1289.9
130°	1349.7	1349.7	1349.7	1349.7	1349.7	1349.5	1349.2	1348.9	1348.5	1348.2	1347.2
132.5°	1405.2	1405.5	1405.7	1406.0	1406.3	1406.2	1405.9	1405.6	1405.2	1404.9	1403.6
135°	1488.4	1487.8	1487.1	1486.4	1485.8	1485.1	1484.4	1483.7	1483.1	1482.4	1481.1
137.5°	1559.6	1559.8	1560.0	1560.2	1560.4	1560.2	1559.4	1558.7	1557.9	1557.2	1555.7
140°	1609.1	1608.7	1608.4	1608.1	1607.7	1607.1	1606.1	1605.1	1604.1	1603.0	1602.4
142.5°	1650.1	1650.0	1650.0	1649.9	1649.8	1649.4	1648.7	1648.0	1647.2	1646.5	1646.1
145°	1713.1	1712.5	1711.8	1711.1	1710.5	1709.9	1709.6	1709.3	1708.9	1708.6	1708.6
147.5°	1765.3	1765.0	1764.6	1764.3	1764.0	1763.7	1763.4	1763.1	1762.9	1762.6	1762.9
150°	1799.1	1798.8	1798.4	1798.1	1797.8	1797.6	1797.6	1797.6	1797.6	1797.6	1797.9
152.5°	1828.0	1828.2	1828.4	1828.6	1828.8	1828.7	1828.1	1827.6	1827.1	1826.5	1827.1
155°	1867.0	1868.0	1869.0	1870.0	1871.0	1870.8	1869.5	1868.1	1866.8	1865.4	1866.5
157.5°	1899.5	1901.3	1903.0	1904.8	1906.5	1906.5	1904.8	1903.0	1901.3	1899.5	1900.7
160°	1921.2	1923.3	1925.3	1927.3	1929.3	1929.3	1927.3	1925.3	1923.3	1921.2	1921.6
162.5°	1938.1	1940.4	1942.7	1945.0	1947.2	1947.4	1945.4	1943.4	1941.3	1939.3	1939.7
165°	1962.0	1965.0	1968.0	1971.0	1974.0	1974.2	1971.5	1968.8	1966.1	1963.5	1963.5
167.5°	1979.8	1983.1	1986.5	1989.8	1993.2	1993.4	1990.4	1987.5	1984.5	1981.6	1981.8
170°	1990.6	1994.0	1997.3	2000.7	2004.0	2004.4	2001.7	1999.0	1996.3	1993.6	1993.3
172.5°	1996.6	2000.3	2003.9	2007.5	2011.1	2011.6	2008.9	2006.2	2003.5	2000.9	2000.5
175°	2004.2	2008.2	2012.2	2016.2	2020.3	2020.8	2017.8	2014.7	2011.7	2008.7	2008.4
177.5°	2009.0	2012.2	2015.4	2018.7	2021.9	2022.4	2020.3	2018.1	2016.0	2013.8	2013.3
180°	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2



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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°	26.6	23.9	21.2	19.8	19.6	19.4	19.2	19.0	19.2	19.4	19.6
95°	32.5	32.2	31.8	37.4	48.8	60.2	71.5	82.9	71.5	60.2	48.8
97.5°	114.6	152.0	189.4	204.6	197.5	190.3	183.2	176.1	183.2	190.3	197.5
100°	158.8	205.1	251.3	271.4	265.4	259.4	253.4	247.3	253.4	259.4	265.4
102.5°	331.8	337.8	343.8	344.6	340.2	335.8	331.4	326.9	331.4	335.8	340.2
105°	467.2	465.5	463.8	462.0	460.0	457.9	455.9	453.9	455.9	457.9	460.0
107.5°	582.1	579.8	577.5	575.9	574.9	573.9	572.9	571.8	572.9	573.9	574.9
110°	661.0	659.0	657.0	655.5	654.5	653.5	652.5	651.5	652.5	653.5	654.5



TEST NUMBER: P333111

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	739.2	738.2	737.3	735.9	734.1	732.3	730.5	728.7	730.5	732.3	734.1
115°	851.2	851.5	851.9	851.5	850.5	849.5	848.5	847.5	848.5	849.5	850.5
117.5°	962.5	961.7	961.0	960.0	958.6	957.3	955.9	954.6	955.9	957.3	958.6
120°	1032.2	1032.5	1032.8	1032.3	1031.0	1029.7	1028.3	1027.0	1028.3	1029.7	1031.0
122.5°	1099.3	1098.9	1098.4	1097.8	1096.9	1096.1	1095.3	1094.5	1095.3	1096.1	1096.9
125°	1195.7	1196.4	1197.0	1196.7	1195.4	1194.0	1192.7	1191.4	1192.7	1194.0	1195.4
127.5°	1288.4	1286.9	1285.3	1284.4	1284.0	1283.7	1283.4	1283.0	1283.4	1283.7	1284.0
130°	1346.2	1345.2	1344.2	1343.5	1343.2	1342.8	1342.5	1342.2	1342.5	1342.8	1343.2
132.5°	1402.3	1401.1	1399.8	1398.9	1398.3	1397.7	1397.0	1396.4	1397.0	1397.7	1398.3
135°	1479.7	1478.4	1477.0	1476.5	1476.9	1477.2	1477.5	1477.9	1477.5	1477.2	1476.9
137.5°	1554.3	1552.8	1551.3	1550.5	1550.4	1550.2	1550.1	1550.0	1550.1	1550.2	1550.4
140°	1601.7	1601.0	1600.4	1599.7	1599.0	1598.4	1597.7	1597.0	1597.7	1598.4	1599.0
142.5°	1645.7	1645.3	1644.9	1644.1	1642.9	1641.7	1640.4	1639.2	1640.4	1641.7	1642.9
145°	1708.6	1708.6	1708.6	1708.1	1707.1	1706.1	1705.1	1704.1	1705.1	1706.1	1707.1
147.5°	1763.3	1763.6	1763.9	1763.2	1761.3	1759.4	1757.5	1755.7	1757.5	1759.4	1761.3
150°	1798.3	1798.6	1798.9	1798.4	1797.1	1795.7	1794.4	1793.1	1794.4	1795.7	1797.1
152.5°	1827.7	1828.3	1829.0	1828.7	1827.6	1826.6	1825.5	1824.4	1825.5	1826.6	1827.6
155°	1867.5	1868.5	1869.5	1869.8	1869.5	1869.1	1868.8	1868.5	1868.8	1869.1	1869.5
157.5°	1901.8	1902.9	1904.1	1904.8	1905.0	1905.2	1905.4	1905.6	1905.4	1905.2	1905.0
160°	1921.9	1922.2	1922.6	1923.3	1924.3	1925.3	1926.3	1927.3	1926.3	1925.3	1924.3
162.5°	1940.0	1940.3	1940.7	1941.5	1942.8	1944.0	1945.3	1946.6	1945.3	1944.0	1942.8
165°	1963.5	1963.5	1963.5	1964.3	1966.0	1967.7	1969.3	1971.0	1969.3	1967.7	1966.0
167.5°	1982.0	1982.2	1982.4	1983.3	1985.1	1986.8	1988.6	1990.3	1988.6	1986.8	1985.1
170°	1993.0	1992.6	1992.3	1993.1	1995.1	1997.1	1999.2	2001.2	1999.2	1997.1	1995.1
172.5°	2000.2	1999.9	1999.5	2000.4	2002.4	2004.4	2006.4	2008.4	2006.4	2004.4	2002.4
175°	2008.0	2007.7	2007.4	2008.2	2010.2	2012.2	2014.2	2016.2	2014.2	2012.2	2010.2
177.5°	2012.8	2012.2	2011.7	2012.4	2014.2	2016.1	2018.0	2019.9	2018.0	2016.1	2014.2
180°	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2



TEST NUMBER: P333111

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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°	19.8	21.2	23.9	26.6	29.3	32.0	34.0	36.0	38.0	40.0	41.1
95°	37.4	31.8	32.2	32.5	32.8	33.2	35.2	37.2	39.2	41.2	42.4
97.5°	204.6	189.4	152.0	114.6	77.2	39.8	40.0	40.2	40.4	40.6	40.9
100°	271.4	251.3	205.1	158.8	112.6	66.4	60.7	55.0	49.3	43.6	40.9
102.5°	344.6	343.8	337.8	331.8	325.7	319.7	258.2	196.8	135.3	73.9	43.2
105°	462.0	463.8	465.5	467.2	468.8	470.5	473.5	476.5	479.6	482.6	478.0
107.5°	575.9	577.5	579.8	582.1	584.3	586.6	588.1	589.6	591.1	592.5	593.9
110°	655.5	657.0	659.0	661.0	663.0	665.0	665.7	666.4	667.1	667.7	668.6



TEST NUMBER: P333111

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	735.9	737.3	738.2	739.2	740.1	741.1	740.9	740.8	740.6	740.5	741.1
115°	851.5	851.9	851.5	851.2	850.9	850.5	851.2	851.9	852.5	853.2	853.6
117.5°	960.0	961.0	961.7	962.5	963.2	963.9	963.8	963.7	963.5	963.4	963.3
120°	1032.3	1032.8	1032.5	1032.2	1031.8	1031.5	1032.2	1032.8	1033.5	1034.2	1034.2
122.5°	1097.8	1098.4	1098.9	1099.3	1099.8	1100.3	1100.7	1101.1	1101.5	1101.9	1101.7
125°	1196.7	1197.0	1196.4	1195.7	1195.0	1194.4	1195.4	1196.4	1197.4	1198.4	1199.1
127.5°	1284.4	1285.3	1286.9	1288.4	1289.9	1291.5	1291.3	1291.1	1290.9	1290.7	1290.4
130°	1343.5	1344.2	1345.2	1346.2	1347.2	1348.2	1348.5	1348.9	1349.2	1349.5	1349.7
132.5°	1398.9	1399.8	1401.1	1402.3	1403.6	1404.9	1405.2	1405.6	1405.9	1406.2	1406.3
135°	1476.5	1477.0	1478.4	1479.7	1481.1	1482.4	1483.1	1483.7	1484.4	1485.1	1485.8
137.5°	1550.5	1551.3	1552.8	1554.3	1555.7	1557.2	1557.9	1558.7	1559.4	1560.2	1560.4
140°	1599.7	1600.4	1601.0	1601.7	1602.4	1603.0	1604.1	1605.1	1606.1	1607.1	1607.7
142.5°	1644.1	1644.9	1645.3	1645.7	1646.1	1646.5	1647.2	1648.0	1648.7	1649.4	1649.8
145°	1708.1	1708.6	1708.6	1708.6	1708.6	1708.6	1708.9	1709.3	1709.6	1709.9	1710.5
147.5°	1763.2	1763.9	1763.6	1763.3	1762.9	1762.6	1762.9	1763.1	1763.4	1763.7	1764.0
150°	1798.4	1798.9	1798.6	1798.3	1797.9	1797.6	1797.6	1797.6	1797.6	1797.6	1797.8
152.5°	1828.7	1829.0	1828.3	1827.7	1827.1	1826.5	1827.1	1827.6	1828.1	1828.7	1828.8
155°	1869.8	1869.5	1868.5	1867.5	1866.5	1865.4	1866.8	1868.1	1869.5	1870.8	1871.0
157.5°	1904.8	1904.1	1902.9	1901.8	1900.7	1899.5	1901.3	1903.0	1904.8	1906.5	1906.5
160°	1923.3	1922.6	1922.2	1921.9	1921.6	1921.2	1923.3	1925.3	1927.3	1929.3	1929.3
162.5°	1941.5	1940.7	1940.3	1940.0	1939.7	1939.3	1941.3	1943.4	1945.4	1947.4	1947.2
165°	1964.3	1963.5	1963.5	1963.5	1963.5	1963.5	1966.1	1968.8	1971.5	1974.2	1974.0
167.5°	1983.3	1982.4	1982.2	1982.0	1981.8	1981.6	1984.5	1987.5	1990.4	1993.4	1993.2
170°	1993.1	1992.3	1992.6	1993.0	1993.3	1993.6	1996.3	1999.0	2001.7	2004.4	2004.0
172.5°	2000.4	1999.5	1999.9	2000.2	2000.5	2000.9	2003.5	2006.2	2008.9	2011.6	2011.1
175°	2008.2	2007.4	2007.7	2008.0	2008.4	2008.7	2011.7	2014.7	2017.8	2020.8	2020.3
177.5°	2012.4	2011.7	2012.2	2012.8	2013.3	2013.8	2016.0	2018.1	2020.3	2022.4	2021.9
180°	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2



TEST NUMBER: P333111

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

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°	41.2	41.4	41.5	41.6	41.5	41.4	41.2	41.1	40.0	38.0	36.0
95°	42.7	43.1	43.4	43.7	43.4	43.1	42.7	42.4	41.2	39.2	37.2
97.5°	41.2	41.6	41.9	42.2	41.9	41.6	41.2	40.9	40.6	40.4	40.2
100°	41.2	41.6	41.9	42.2	41.9	41.6	41.2	40.9	43.6	49.3	55.0
102.5°	43.2	43.3	43.4	43.4	43.4	43.3	43.2	43.2	73.9	135.3	196.8
105°	466.0	453.9	441.9	429.8	441.9	453.9	466.0	478.0	482.6	479.6	476.5
107.5°	595.2	596.4	597.7	599.0	597.7	596.4	595.2	593.9	592.5	591.1	589.6
110°	669.6	670.6	671.6	672.6	671.6	670.6	669.6	668.6	667.7	667.1	666.4



TEST NUMBER: P333111

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	742.4	743.6	744.9	746.2	744.9	743.6	742.4	741.1	740.5	740.6	740.8
115°	853.6	853.6	853.6	853.6	853.6	853.6	853.6	853.6	853.2	852.5	851.9
117.5°	963.1	963.0	962.9	962.7	962.9	963.0	963.1	963.3	963.4	963.5	963.7
120°	1033.5	1032.8	1032.2	1031.5	1032.2	1032.8	1033.5	1034.2	1034.2	1033.5	1032.8
122.5°	1101.1	1100.4	1099.7	1099.1	1099.7	1100.4	1101.1	1101.7	1101.9	1101.5	1101.1
125°	1199.4	1199.7	1200.1	1200.4	1200.1	1199.7	1199.4	1199.1	1198.4	1197.4	1196.4
127.5°	1290.2	1289.9	1289.6	1289.4	1289.6	1289.9	1290.2	1290.4	1290.7	1290.9	1291.1
130°	1349.7	1349.7	1349.7	1349.7	1349.7	1349.7	1349.7	1349.7	1349.5	1349.2	1348.9
132.5°	1406.0	1405.7	1405.5	1405.2	1405.5	1405.7	1406.0	1406.3	1406.2	1405.9	1405.6
135°	1486.4	1487.1	1487.8	1488.4	1487.8	1487.1	1486.4	1485.8	1485.1	1484.4	1483.7
137.5°	1560.2	1560.0	1559.8	1559.6	1559.8	1560.0	1560.2	1560.4	1560.2	1559.4	1558.7
140°	1608.1	1608.4	1608.7	1609.1	1608.7	1608.4	1608.1	1607.7	1607.1	1606.1	1605.1
142.5°	1649.9	1650.0	1650.0	1650.1	1650.0	1650.0	1649.9	1649.8	1649.4	1648.7	1648.0
145°	1711.1	1711.8	1712.5	1713.1	1712.5	1711.8	1711.1	1710.5	1709.9	1709.6	1709.3
147.5°	1764.3	1764.6	1765.0	1765.3	1765.0	1764.6	1764.3	1764.0	1763.7	1763.4	1763.1
150°	1798.1	1798.4	1798.8	1799.1	1798.8	1798.4	1798.1	1797.8	1797.6	1797.6	1797.6
152.5°	1828.6	1828.4	1828.2	1828.0	1828.2	1828.4	1828.6	1828.8	1828.7	1828.1	1827.6
155°	1870.0	1869.0	1868.0	1867.0	1868.0	1869.0	1870.0	1871.0	1870.8	1869.5	1868.1
157.5°	1904.8	1903.0	1901.3	1899.5	1901.3	1903.0	1904.8	1906.5	1906.5	1904.8	1903.0
160°	1927.3	1925.3	1923.3	1921.2	1923.3	1925.3	1927.3	1929.3	1929.3	1927.3	1925.3
162.5°	1945.0	1942.7	1940.4	1938.1	1940.4	1942.7	1945.0	1947.2	1947.4	1945.4	1943.4
165°	1971.0	1968.0	1965.0	1962.0	1965.0	1968.0	1971.0	1974.0	1974.2	1971.5	1968.8
167.5°	1989.8	1986.5	1983.1	1979.8	1983.1	1986.5	1989.8	1993.2	1993.4	1990.4	1987.5
170°	2000.7	1997.3	1994.0	1990.6	1994.0	1997.3	2000.7	2004.0	2004.4	2001.7	1999.0
172.5°	2007.5	2003.9	2000.3	1996.6	2000.3	2003.9	2007.5	2011.1	2011.6	2008.9	2006.2
175°	2016.2	2012.2	2008.2	2004.2	2008.2	2012.2	2016.2	2020.3	2020.8	2017.8	2014.7
177.5°	2018.7	2015.4	2012.2	2009.0	2012.2	2015.4	2018.7	2021.9	2022.4	2020.3	2018.1
180°	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2



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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°	34.0	32.0	29.3	26.6	23.9	21.2	19.8	19.6	19.4	19.2	19.0
95°	35.2	33.2	32.8	32.5	32.2	31.8	37.4	48.8	60.2	71.5	82.9
97.5°	40.0	39.8	77.2	114.6	152.0	189.4	204.6	197.5	190.3	183.2	176.1
100°	60.7	66.4	112.6	158.8	205.1	251.3	271.4	265.4	259.4	253.4	247.3
102.5°	258.2	319.7	325.7	331.8	337.8	343.8	344.6	340.2	335.8	331.4	326.9
105°	473.5	470.5	468.8	467.2	465.5	463.8	462.0	460.0	457.9	455.9	453.9
107.5°	588.1	586.6	584.3	582.1	579.8	577.5	575.9	574.9	573.9	572.9	571.8
110°	665.7	665.0	663.0	661.0	659.0	657.0	655.5	654.5	653.5	652.5	651.5



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	740.9	741.1	740.1	739.2	738.2	737.3	735.9	734.1	732.3	730.5	728.7
115°	851.2	850.5	850.9	851.2	851.5	851.9	851.5	850.5	849.5	848.5	847.5
117.5°	963.8	963.9	963.2	962.5	961.7	961.0	960.0	958.6	957.3	955.9	954.6
120°	1032.2	1031.5	1031.8	1032.2	1032.5	1032.8	1032.3	1031.0	1029.7	1028.3	1027.0
122.5°	1100.7	1100.3	1099.8	1099.3	1098.9	1098.4	1097.8	1096.9	1096.1	1095.3	1094.5
125°	1195.4	1194.4	1195.0	1195.7	1196.4	1197.0	1196.7	1195.4	1194.0	1192.7	1191.4
127.5°	1291.3	1291.5	1289.9	1288.4	1286.9	1285.3	1284.4	1284.0	1283.7	1283.4	1283.0
130°	1348.5	1348.2	1347.2	1346.2	1345.2	1344.2	1343.5	1343.2	1342.8	1342.5	1342.2
132.5°	1405.2	1404.9	1403.6	1402.3	1401.1	1399.8	1398.9	1398.3	1397.7	1397.0	1396.4
135°	1483.1	1482.4	1481.1	1479.7	1478.4	1477.0	1476.5	1476.9	1477.2	1477.5	1477.9
137.5°	1557.9	1557.2	1555.7	1554.3	1552.8	1551.3	1550.5	1550.4	1550.2	1550.1	1550.0
140°	1604.1	1603.0	1602.4	1601.7	1601.0	1600.4	1599.7	1599.0	1598.4	1597.7	1597.0
142.5°	1647.2	1646.5	1646.1	1645.7	1645.3	1644.9	1644.1	1642.9	1641.7	1640.4	1639.2
145°	1708.9	1708.6	1708.6	1708.6	1708.6	1708.6	1708.1	1707.1	1706.1	1705.1	1704.1
147.5°	1762.9	1762.6	1762.9	1763.3	1763.6	1763.9	1763.2	1761.3	1759.4	1757.5	1755.7
150°	1797.6	1797.6	1797.9	1798.3	1798.6	1798.9	1798.4	1797.1	1795.7	1794.4	1793.1
152.5°	1827.1	1826.5	1827.1	1827.7	1828.3	1829.0	1828.7	1827.6	1826.6	1825.5	1824.4
155°	1866.8	1865.4	1866.5	1867.5	1868.5	1869.5	1869.8	1869.5	1869.1	1868.8	1868.5
157.5°	1901.3	1899.5	1900.7	1901.8	1902.9	1904.1	1904.8	1905.0	1905.2	1905.4	1905.6
160°	1923.3	1921.2	1921.6	1921.9	1922.2	1922.6	1923.3	1924.3	1925.3	1926.3	1927.3
162.5°	1941.3	1939.3	1939.7	1940.0	1940.3	1940.7	1941.5	1942.8	1944.0	1945.3	1946.6
165°	1966.1	1963.5	1963.5	1963.5	1963.5	1963.5	1964.3	1966.0	1967.7	1969.3	1971.0
167.5°	1984.5	1981.6	1981.8	1982.0	1982.2	1982.4	1983.3	1985.1	1986.8	1988.6	1990.3
170°	1996.3	1993.6	1993.3	1993.0	1992.6	1992.3	1993.1	1995.1	1997.1	1999.2	2001.2
172.5°	2003.5	2000.9	2000.5	2000.2	1999.9	1999.5	2000.4	2002.4	2004.4	2006.4	2008.4
175°	2011.7	2008.7	2008.4	2008.0	2007.7	2007.4	2008.2	2010.2	2012.2	2014.2	2016.2
177.5°	2016.0	2013.8	2013.3	2012.8	2012.2	2011.7	2012.4	2014.2	2016.1	2018.0	2019.9
180°	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2



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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°	19.2	19.4	19.6	19.8	21.2	23.9	26.6	29.3	32.0	34.0	36.0
95°	71.5	60.2	48.8	37.4	31.8	32.2	32.5	32.8	33.2	35.2	37.2
97.5°	183.2	190.3	197.5	204.6	189.4	152.0	114.6	77.2	39.8	40.0	40.2
100°	253.4	259.4	265.4	271.4	251.3	205.1	158.8	112.6	66.4	60.7	55.0
102.5°	331.4	335.8	340.2	344.6	343.8	337.8	331.8	325.7	319.7	258.2	196.8
105°	455.9	457.9	460.0	462.0	463.8	465.5	467.2	468.8	470.5	473.5	476.5
107.5°	572.9	573.9	574.9	575.9	577.5	579.8	582.1	584.3	586.6	588.1	589.6
110°	652.5	653.5	654.5	655.5	657.0	659.0	661.0	663.0	665.0	665.7	666.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	730.5	732.3	734.1	735.9	737.3	738.2	739.2	740.1	741.1	740.9	740.8
115°	848.5	849.5	850.5	851.5	851.9	851.5	851.2	850.9	850.5	851.2	851.9
117.5°	955.9	957.3	958.6	960.0	961.0	961.7	962.5	963.2	963.9	963.8	963.7
120°	1028.3	1029.7	1031.0	1032.3	1032.8	1032.5	1032.2	1031.8	1031.5	1032.2	1032.8
122.5°	1095.3	1096.1	1096.9	1097.8	1098.4	1098.9	1099.3	1099.8	1100.3	1100.7	1101.1
125°	1192.7	1194.0	1195.4	1196.7	1197.0	1196.4	1195.7	1195.0	1194.4	1195.4	1196.4
127.5°	1283.4	1283.7	1284.0	1284.4	1285.3	1286.9	1288.4	1289.9	1291.5	1291.3	1291.1
130°	1342.5	1342.8	1343.2	1343.5	1344.2	1345.2	1346.2	1347.2	1348.2	1348.5	1348.9
132.5°	1397.0	1397.7	1398.3	1398.9	1399.8	1401.1	1402.3	1403.6	1404.9	1405.2	1405.6
135°	1477.5	1477.2	1476.9	1476.5	1477.0	1478.4	1479.7	1481.1	1482.4	1483.1	1483.7
137.5°	1550.1	1550.2	1550.4	1550.5	1551.3	1552.8	1554.3	1555.7	1557.2	1557.9	1558.7
140°	1597.7	1598.4	1599.0	1599.7	1600.4	1601.0	1601.7	1602.4	1603.0	1604.1	1605.1
142.5°	1640.4	1641.7	1642.9	1644.1	1644.9	1645.3	1645.7	1646.1	1646.5	1647.2	1648.0
145°	1705.1	1706.1	1707.1	1708.1	1708.6	1708.6	1708.6	1708.6	1708.6	1708.9	1709.3
147.5°	1757.5	1759.4	1761.3	1763.2	1763.9	1763.6	1763.3	1762.9	1762.6	1762.9	1763.1
150°	1794.4	1795.7	1797.1	1798.4	1798.9	1798.6	1798.3	1797.9	1797.6	1797.6	1797.6
152.5°	1825.5	1826.6	1827.6	1828.7	1829.0	1828.3	1827.7	1827.1	1826.5	1827.1	1827.6
155°	1868.8	1869.1	1869.5	1869.8	1869.5	1868.5	1867.5	1866.5	1865.4	1866.8	1868.1
157.5°	1905.4	1905.2	1905.0	1904.8	1904.1	1902.9	1901.8	1900.7	1899.5	1901.3	1903.0
160°	1926.3	1925.3	1924.3	1923.3	1922.6	1922.2	1921.9	1921.6	1921.2	1923.3	1925.3
162.5°	1945.3	1944.0	1942.8	1941.5	1940.7	1940.3	1940.0	1939.7	1939.3	1941.3	1943.4
165°	1969.3	1967.7	1966.0	1964.3	1963.5	1963.5	1963.5	1963.5	1963.5	1966.1	1968.8
167.5°	1988.6	1986.8	1985.1	1983.3	1982.4	1982.2	1982.0	1981.8	1981.6	1984.5	1987.5
170°	1999.2	1997.1	1995.1	1993.1	1992.3	1992.6	1993.0	1993.3	1993.6	1996.3	1999.0
172.5°	2006.4	2004.4	2002.4	2000.4	1999.5	1999.9	2000.2	2000.5	2000.9	2003.5	2006.2
175°	2014.2	2012.2	2010.2	2008.2	2007.4	2007.7	2008.0	2008.4	2008.7	2011.7	2014.7
177.5°	2018.0	2016.1	2014.2	2012.4	2011.7	2012.2	2012.8	2013.3	2013.8	2016.0	2018.1
180°	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2



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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°	38.0	40.0	41.1	41.2	41.4	41.5	41.6
95°	39.2	41.2	42.4	42.7	43.1	43.4	43.7
97.5°	40.4	40.6	40.9	41.2	41.6	41.9	42.2
100°	49.3	43.6	40.9	41.2	41.6	41.9	42.2
102.5°	135.3	73.9	43.2	43.2	43.3	43.4	43.4
105°	479.6	482.6	478.0	466.0	453.9	441.9	429.8
107.5°	591.1	592.5	593.9	595.2	596.4	597.7	599.0
110°	667.1	667.7	668.6	669.6	670.6	671.6	672.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	740.6	740.5	741.1	742.4	743.6	744.9	746.2
115°	852.5	853.2	853.6	853.6	853.6	853.6	853.6
117.5°	963.5	963.4	963.3	963.1	963.0	962.9	962.7
120°	1033.5	1034.2	1034.2	1033.5	1032.8	1032.2	1031.5
122.5°	1101.5	1101.9	1101.7	1101.1	1100.4	1099.7	1099.1
125°	1197.4	1198.4	1199.1	1199.4	1199.7	1200.1	1200.4
127.5°	1290.9	1290.7	1290.4	1290.2	1289.9	1289.6	1289.4
130°	1349.2	1349.5	1349.7	1349.7	1349.7	1349.7	1349.7
132.5°	1405.9	1406.2	1406.3	1406.0	1405.7	1405.5	1405.2
135°	1484.4	1485.1	1485.8	1486.4	1487.1	1487.8	1488.4
137.5°	1559.4	1560.2	1560.4	1560.2	1560.0	1559.8	1559.6
140°	1606.1	1607.1	1607.7	1608.1	1608.4	1608.7	1609.1
142.5°	1648.7	1649.4	1649.8	1649.9	1650.0	1650.0	1650.1
145°	1709.6	1709.9	1710.5	1711.1	1711.8	1712.5	1713.1
147.5°	1763.4	1763.7	1764.0	1764.3	1764.6	1765.0	1765.3
150°	1797.6	1797.6	1797.8	1798.1	1798.4	1798.8	1799.1
152.5°	1828.1	1828.7	1828.8	1828.6	1828.4	1828.2	1828.0
155°	1869.5	1870.8	1871.0	1870.0	1869.0	1868.0	1867.0
157.5°	1904.8	1906.5	1906.5	1904.8	1903.0	1901.3	1899.5
160°	1927.3	1929.3	1929.3	1927.3	1925.3	1923.3	1921.2
162.5°	1945.4	1947.4	1947.2	1945.0	1942.7	1940.4	1938.1
165°	1971.5	1974.2	1974.0	1971.0	1968.0	1965.0	1962.0
167.5°	1990.4	1993.4	1993.2	1989.8	1986.5	1983.1	1979.8
170°	2001.7	2004.4	2004.0	2000.7	1997.3	1994.0	1990.6
172.5°	2008.9	2011.6	2011.1	2007.5	2003.9	2000.3	1996.6
175°	2017.8	2020.8	2020.3	2016.2	2012.2	2008.2	2004.2
177.5°	2020.3	2022.4	2021.9	2018.7	2015.4	2012.2	2009.0
180°	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2	2016.2

(END OF REPORT)