

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: P332997

Luminaire Tested: **S124RDIP-S1195D810U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332997  
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: S124RDIP-S1195D810U835-4F0-1E-UDD-A  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 810 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8245.9 lumens  
Efficiency: N/A  
Efficacy: 135.8 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: Semi-Direct

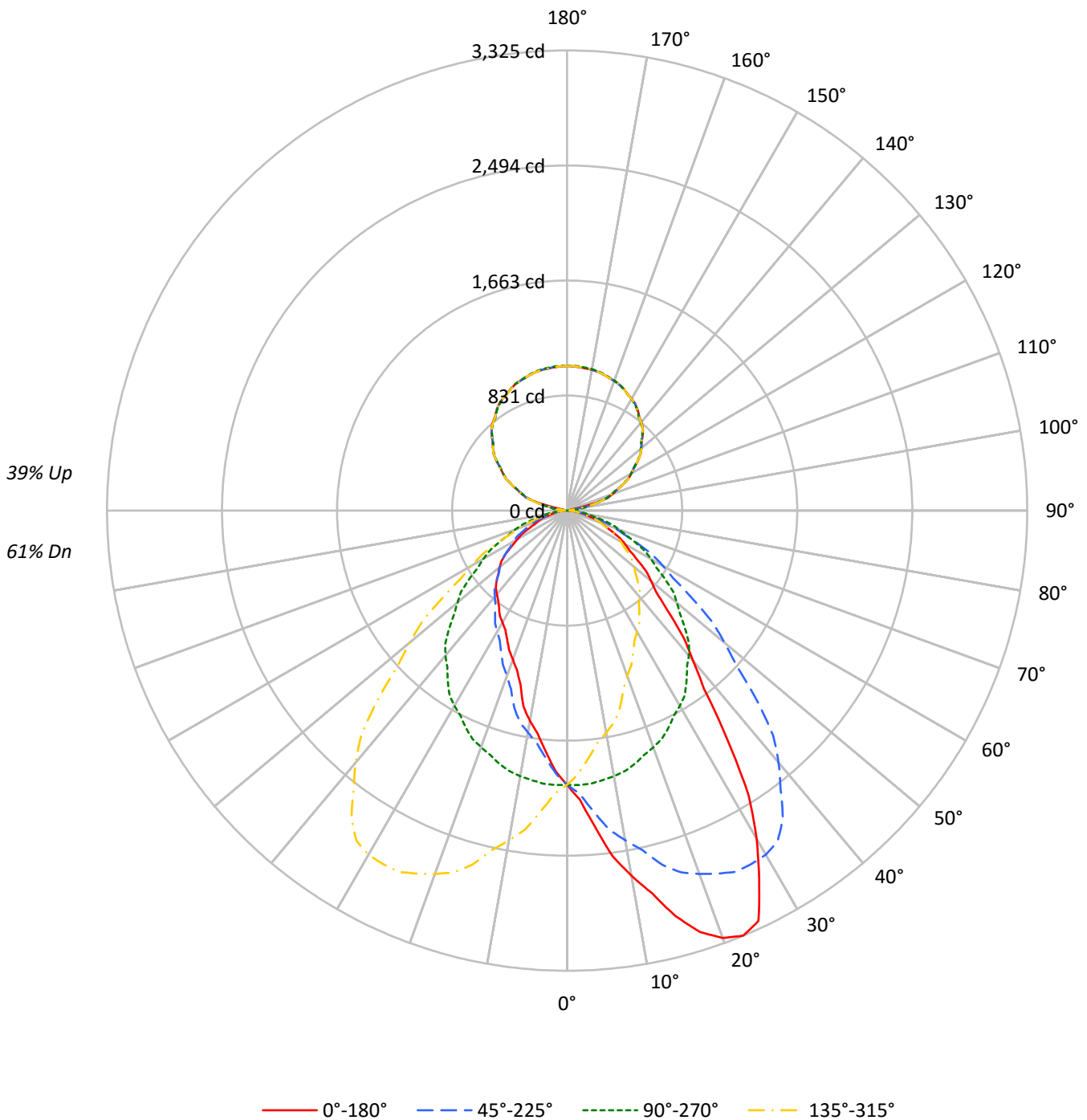
Input Watts (W): 60.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	101	97	93	89	94	91	87	84	79	77	75	69	67	66	59	58	57	52
2	92	85	79	74	86	80	75	70	70	66	63	61	58	56	53	51	49	45
3	84	75	68	62	79	71	64	59	62	57	53	55	51	48	47	44	42	38
4	78	67	59	53	72	63	56	51	56	50	46	49	45	41	43	39	37	33
5	71	60	52	46	67	57	49	44	50	44	40	44	40	36	39	35	32	29
6	66	54	46	40	62	51	44	38	45	40	35	40	35	32	35	32	29	26
7	61	49	41	35	57	46	39	34	41	35	31	37	32	28	32	28	26	23
8	57	45	37	32	53	42	35	30	38	32	28	34	29	25	30	26	23	21
9	53	41	33	28	50	39	32	27	35	29	25	31	26	23	27	24	21	19
10	50	38	30	26	47	36	29	25	32	27	23	29	24	21	25	22	19	17

**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	2.3
10°-20°	579.2	7.0
20°-30°	905.9	11.0
30°-40°	1007.1	12.2
40°-50°	893.5	10.8
50°-60°	696.2	8.4
60°-70°	455.8	5.5
70°-80°	224.2	2.7
80°-90°	58.3	0.7
90°-100°	35.8	0.4
100°-110°	228.0	2.8
110°-120°	436.1	5.3
120°-130°	553.6	6.7
130°-140°	592.3	7.2
140°-150°	553.9	6.7
150°-160°	446.7	5.4
160°-170°	288.1	3.5
170°-180°	99.3	1.2
0°-30°	1677.1	20.3
0°-40°	2684.1	32.6
0°-60°	4273.8	51.8
0°-90°	5012.2	60.8
90°-120°	699.8	8.5
90°-150°	2399.6	29.1
90°-180°	3234.0	39.2
0°-180°	8245.9	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°	24	2	24	2	24	12
95°	23	43	23	43	23	18
105°	223	235	223	235	223	194
115°	443	439	443	439	443	438
125°	622	618	622	618	622	554
135°	772	766	772	766	772	594
145°	888	884	888	884	888	555
155°	968	969	968	969	968	446
165°	1017	1022	1017	1022	1017	287
175°	1039	1045	1039	1045	1039	99
180°	1045	1045	1045	1045	1045	



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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°	18.7	18.0	18.6	18.5	19.1	18.3	18.8	19.8	18.3	18.8	18.5
90°	23.5	23.1	22.8	22.4	22.1	21.4	20.3	19.3	18.2	17.2	15.8
92.5°	21.6	21.5	21.4	21.4	21.3	20.7	19.7	18.7	17.6	16.6	15.2
95°	22.7	22.5	22.3	22.2	22.0	21.4	20.3	19.3	18.2	17.2	17.0
97.5°	21.9	21.7	21.5	21.4	21.2	21.1	21.0	20.9	20.7	20.6	40.0
100°	21.9	21.7	21.5	21.4	21.2	22.6	25.5	28.5	31.4	34.4	58.4
102.5°	22.5	22.5	22.4	22.4	22.4	38.3	70.2	102.0	133.9	165.8	168.9
105°	222.8	229.1	235.3	241.6	247.9	250.2	248.6	247.1	245.5	243.9	243.1
107.5°	310.6	309.9	309.2	308.6	307.9	307.2	306.4	305.7	304.9	304.2	303.0
110°	348.7	348.2	347.7	347.2	346.6	346.2	345.9	345.5	345.2	344.8	343.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	386.9	386.2	385.6	384.9	384.2	383.9	384.0	384.1	384.2	384.2	383.7
115°	442.6	442.6	442.6	442.6	442.6	442.4	442.0	441.7	441.3	441.0	441.2
117.5°	499.2	499.2	499.3	499.4	499.4	499.5	499.6	499.6	499.7	499.8	499.4
120°	534.8	535.2	535.5	535.9	536.2	536.2	535.9	535.5	535.2	534.8	535.0
122.5°	569.8	570.2	570.5	570.9	571.2	571.3	571.1	570.9	570.7	570.5	570.2
125°	622.4	622.2	622.0	621.9	621.7	621.3	620.8	620.3	619.8	619.3	619.6
127.5°	668.5	668.7	668.8	668.9	669.1	669.2	669.3	669.4	669.5	669.6	668.8
130°	699.8	699.8	699.8	699.8	699.8	699.7	699.5	699.4	699.2	699.0	698.5
132.5°	728.6	728.7	728.8	729.0	729.1	729.1	728.9	728.8	728.6	728.4	727.7
135°	771.7	771.4	771.0	770.7	770.3	770.0	769.6	769.3	768.9	768.6	767.9
137.5°	808.6	808.7	808.8	808.9	809.0	808.9	808.5	808.1	807.8	807.4	806.6
140°	834.3	834.1	833.9	833.8	833.6	833.2	832.7	832.2	831.7	831.1	830.8
142.5°	855.5	855.5	855.5	855.4	855.4	855.2	854.8	854.4	854.1	853.7	853.5
145°	888.2	887.9	887.5	887.2	886.8	886.6	886.4	886.2	886.1	885.9	885.9
147.5°	915.3	915.1	914.9	914.8	914.6	914.4	914.3	914.2	914.0	913.9	914.0
150°	932.8	932.6	932.4	932.3	932.1	932.0	932.0	932.0	932.0	932.0	932.2
152.5°	947.8	947.9	948.0	948.1	948.2	948.1	947.9	947.6	947.3	947.0	947.3
155°	968.0	968.5	969.0	969.5	970.1	970.0	969.3	968.6	967.9	967.2	967.7
157.5°	984.9	985.8	986.7	987.6	988.5	988.5	987.6	986.7	985.8	984.9	985.5
160°	996.1	997.2	998.2	999.3	1000.3	1000.3	999.3	998.2	997.2	996.1	996.3
162.5°	1004.9	1006.1	1007.2	1008.4	1009.6	1009.7	1008.6	1007.6	1006.6	1005.5	1005.7
165°	1017.2	1018.8	1020.4	1021.9	1023.5	1023.6	1022.2	1020.8	1019.4	1018.0	1018.0
167.5°	1026.5	1028.2	1029.9	1031.7	1033.4	1033.5	1032.0	1030.5	1028.9	1027.4	1027.5
170°	1032.1	1033.8	1035.6	1037.3	1039.0	1039.2	1037.8	1036.4	1035.0	1033.7	1033.5
172.5°	1035.2	1037.1	1039.0	1040.9	1042.7	1043.0	1041.6	1040.2	1038.8	1037.4	1037.2
175°	1039.1	1041.2	1043.3	1045.4	1047.5	1047.7	1046.2	1044.6	1043.0	1041.5	1041.3
177.5°	1041.6	1043.3	1045.0	1046.6	1048.3	1048.6	1047.5	1046.4	1045.2	1044.1	1043.9
180°	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4



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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°	18.2	17.3	18.3	18.0	18.2	20.4	21.9	22.2	20.7	19.1	17.6
90°	14.4	13.0	11.6	10.0	8.1	6.2	4.3	2.3	4.3	6.2	8.1
92.5°	13.8	12.4	11.0	10.3	10.2	10.1	10.0	9.9	10.0	10.1	10.2
95°	16.9	16.7	16.5	19.4	25.3	31.2	37.1	43.0	37.1	31.2	25.3
97.5°	59.4	78.8	98.2	106.1	102.4	98.7	95.0	91.3	95.0	98.7	102.4
100°	82.4	106.3	130.3	140.7	137.6	134.5	131.4	128.2	131.4	134.5	137.6
102.5°	172.0	175.1	178.3	178.7	176.4	174.1	171.8	169.5	171.8	174.1	176.4
105°	242.2	241.3	240.5	239.5	238.5	237.4	236.4	235.3	236.4	237.4	238.5
107.5°	301.8	300.6	299.4	298.6	298.1	297.5	297.0	296.5	297.0	297.5	298.1
110°	342.7	341.7	340.6	339.9	339.3	338.8	338.3	337.8	338.3	338.8	339.3





TEST NUMBER: P332997

CATALOG NUMBER: S124RDIP-S1195D810U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	383.2	382.8	382.3	381.6	380.6	379.7	378.7	377.8	378.7	379.7	380.6
115°	441.3	441.5	441.7	441.5	441.0	440.5	439.9	439.4	439.9	440.5	441.0
117.5°	499.0	498.6	498.3	497.7	497.0	496.3	495.6	494.9	495.6	496.3	497.0
120°	535.2	535.3	535.5	535.2	534.6	533.9	533.2	532.5	533.2	533.9	534.6
122.5°	570.0	569.7	569.5	569.2	568.7	568.3	567.9	567.5	567.9	568.3	568.7
125°	620.0	620.3	620.6	620.5	619.8	619.1	618.4	617.7	618.4	619.1	619.8
127.5°	668.0	667.2	666.4	665.9	665.8	665.6	665.4	665.2	665.4	665.6	665.8
130°	698.0	697.4	696.9	696.6	696.4	696.2	696.1	695.9	696.1	696.2	696.4
132.5°	727.1	726.4	725.8	725.3	725.0	724.7	724.3	724.0	724.3	724.7	725.0
135°	767.2	766.5	765.8	765.6	765.7	765.9	766.1	766.3	766.1	765.9	765.7
137.5°	805.9	805.1	804.3	803.9	803.8	803.8	803.7	803.6	803.7	803.8	803.8
140°	830.5	830.1	829.8	829.4	829.1	828.7	828.4	828.0	828.4	828.7	829.1
142.5°	853.3	853.0	852.8	852.4	851.8	851.2	850.5	849.9	850.5	851.2	851.8
145°	885.9	885.9	885.9	885.6	885.1	884.6	884.1	883.5	884.1	884.6	885.1
147.5°	914.2	914.4	914.6	914.2	913.2	912.2	911.3	910.3	911.3	912.2	913.2
150°	932.4	932.5	932.7	932.4	931.8	931.1	930.4	929.7	930.4	931.1	931.8
152.5°	947.7	948.0	948.3	948.2	947.6	947.0	946.5	945.9	946.5	947.0	947.6
155°	968.2	968.8	969.3	969.5	969.3	969.1	968.9	968.8	968.9	969.1	969.3
157.5°	986.1	986.6	987.2	987.6	987.7	987.8	987.9	988.0	987.9	987.8	987.7
160°	996.5	996.7	996.8	997.2	997.7	998.2	998.7	999.3	998.7	998.2	997.7
162.5°	1005.9	1006.0	1006.2	1006.6	1007.3	1007.9	1008.6	1009.3	1008.6	1007.9	1007.3
165°	1018.0	1018.0	1018.0	1018.5	1019.3	1020.2	1021.1	1021.9	1021.1	1020.2	1019.3
167.5°	1027.6	1027.7	1027.8	1028.3	1029.2	1030.1	1031.0	1031.9	1031.0	1030.1	1029.2
170°	1033.3	1033.1	1033.0	1033.4	1034.4	1035.5	1036.5	1037.6	1036.5	1035.5	1034.4
172.5°	1037.1	1036.9	1036.7	1037.2	1038.2	1039.2	1040.3	1041.3	1040.3	1039.2	1038.2
175°	1041.1	1041.0	1040.8	1041.2	1042.3	1043.3	1044.3	1045.4	1044.3	1043.3	1042.3
177.5°	1043.6	1043.3	1043.0	1043.4	1044.3	1045.3	1046.3	1047.3	1046.3	1045.3	1044.3
180°	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4



TEST NUMBER: P332997

CATALOG NUMBER: S124RDIP-S1195D810U835-4F0-1E-UDD-A

**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°	18.0	17.7	17.9	16.9	17.9	18.1	17.7	17.9	18.8	17.7	17.8
90°	10.0	11.6	13.0	14.4	15.8	17.2	18.2	19.3	20.3	21.4	22.1
92.5°	10.3	11.0	12.4	13.8	15.2	16.6	17.6	18.7	19.7	20.7	21.3
95°	19.4	16.5	16.7	16.9	17.0	17.2	18.2	19.3	20.3	21.4	22.0
97.5°	106.1	98.2	78.8	59.4	40.0	20.6	20.7	20.9	21.0	21.1	21.2
100°	140.7	130.3	106.3	82.4	58.4	34.4	31.4	28.5	25.5	22.6	21.2
102.5°	178.7	178.3	175.1	172.0	168.9	165.8	133.9	102.0	70.2	38.3	22.4
105°	239.5	240.5	241.3	242.2	243.1	243.9	245.5	247.1	248.6	250.2	247.9
107.5°	298.6	299.4	300.6	301.8	303.0	304.2	304.9	305.7	306.4	307.2	307.9
110°	339.9	340.6	341.7	342.7	343.8	344.8	345.2	345.5	345.9	346.2	346.6



TEST NUMBER: P332997

CATALOG NUMBER: S124RDIP-S1195D810U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	381.6	382.3	382.8	383.2	383.7	384.2	384.2	384.1	384.0	383.9	384.2
115°	441.5	441.7	441.5	441.3	441.2	441.0	441.3	441.7	442.0	442.4	442.6
117.5°	497.7	498.3	498.6	499.0	499.4	499.8	499.7	499.6	499.6	499.5	499.4
120°	535.2	535.5	535.3	535.2	535.0	534.8	535.2	535.5	535.9	536.2	536.2
122.5°	569.2	569.5	569.7	570.0	570.2	570.5	570.7	570.9	571.1	571.3	571.2
125°	620.5	620.6	620.3	620.0	619.6	619.3	619.8	620.3	620.8	621.3	621.7
127.5°	665.9	666.4	667.2	668.0	668.8	669.6	669.5	669.4	669.3	669.2	669.1
130°	696.6	696.9	697.4	698.0	698.5	699.0	699.2	699.4	699.5	699.7	699.8
132.5°	725.3	725.8	726.4	727.1	727.7	728.4	728.6	728.8	728.9	729.1	729.1
135°	765.6	765.8	766.5	767.2	767.9	768.6	768.9	769.3	769.6	770.0	770.3
137.5°	803.9	804.3	805.1	805.9	806.6	807.4	807.8	808.1	808.5	808.9	809.0
140°	829.4	829.8	830.1	830.5	830.8	831.1	831.7	832.2	832.7	833.2	833.6
142.5°	852.4	852.8	853.0	853.3	853.5	853.7	854.1	854.4	854.8	855.2	855.4
145°	885.6	885.9	885.9	885.9	885.9	885.9	886.1	886.2	886.4	886.6	886.8
147.5°	914.2	914.6	914.4	914.2	914.0	913.9	914.0	914.2	914.3	914.4	914.6
150°	932.4	932.7	932.5	932.4	932.2	932.0	932.0	932.0	932.0	932.0	932.1
152.5°	948.2	948.3	948.0	947.7	947.3	947.0	947.3	947.6	947.9	948.1	948.2
155°	969.5	969.3	968.8	968.2	967.7	967.2	967.9	968.6	969.3	970.0	970.1
157.5°	987.6	987.2	986.6	986.1	985.5	984.9	985.8	986.7	987.6	988.5	988.5
160°	997.2	996.8	996.7	996.5	996.3	996.1	997.2	998.2	999.3	1000.3	1000.3
162.5°	1006.6	1006.2	1006.0	1005.9	1005.7	1005.5	1006.6	1007.6	1008.6	1009.7	1009.6
165°	1018.5	1018.0	1018.0	1018.0	1018.0	1018.0	1019.4	1020.8	1022.2	1023.6	1023.5
167.5°	1028.3	1027.8	1027.7	1027.6	1027.5	1027.4	1028.9	1030.5	1032.0	1033.5	1033.4
170°	1033.4	1033.0	1033.1	1033.3	1033.5	1033.7	1035.0	1036.4	1037.8	1039.2	1039.0
172.5°	1037.2	1036.7	1036.9	1037.1	1037.2	1037.4	1038.8	1040.2	1041.6	1043.0	1042.7
175°	1041.2	1040.8	1041.0	1041.1	1041.3	1041.5	1043.0	1044.6	1046.2	1047.7	1047.5
177.5°	1043.4	1043.0	1043.3	1043.6	1043.9	1044.1	1045.2	1046.4	1047.5	1048.6	1048.3
180°	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4



TEST NUMBER: P332997

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**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°	19.2	18.6	18.0	18.7	18.0	18.6	19.2	17.8	17.7	18.8	17.9
90°	22.4	22.8	23.1	23.5	23.1	22.8	22.4	22.1	21.4	20.3	19.3
92.5°	21.4	21.4	21.5	21.6	21.5	21.4	21.4	21.3	20.7	19.7	18.7
95°	22.2	22.3	22.5	22.7	22.5	22.3	22.2	22.0	21.4	20.3	19.3
97.5°	21.4	21.5	21.7	21.9	21.7	21.5	21.4	21.2	21.1	21.0	20.9
100°	21.4	21.5	21.7	21.9	21.7	21.5	21.4	21.2	22.6	25.5	28.5
102.5°	22.4	22.4	22.5	22.5	22.5	22.4	22.4	22.4	38.3	70.2	102.0
105°	241.6	235.3	229.1	222.8	229.1	235.3	241.6	247.9	250.2	248.6	247.1
107.5°	308.6	309.2	309.9	310.6	309.9	309.2	308.6	307.9	307.2	306.4	305.7
110°	347.2	347.7	348.2	348.7	348.2	347.7	347.2	346.6	346.2	345.9	345.5



TEST NUMBER: P332997

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	384.9	385.6	386.2	386.9	386.2	385.6	384.9	384.2	383.9	384.0	384.1
115°	442.6	442.6	442.6	442.6	442.6	442.6	442.6	442.6	442.4	442.0	441.7
117.5°	499.4	499.3	499.2	499.2	499.2	499.3	499.4	499.4	499.5	499.6	499.6
120°	535.9	535.5	535.2	534.8	535.2	535.5	535.9	536.2	536.2	535.9	535.5
122.5°	570.9	570.5	570.2	569.8	570.2	570.5	570.9	571.2	571.3	571.1	570.9
125°	621.9	622.0	622.2	622.4	622.2	622.0	621.9	621.7	621.3	620.8	620.3
127.5°	668.9	668.8	668.7	668.5	668.7	668.8	668.9	669.1	669.2	669.3	669.4
130°	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.7	699.5	699.4
132.5°	729.0	728.8	728.7	728.6	728.7	728.8	729.0	729.1	729.1	728.9	728.8
135°	770.7	771.0	771.4	771.7	771.4	771.0	770.7	770.3	770.0	769.6	769.3
137.5°	808.9	808.8	808.7	808.6	808.7	808.8	808.9	809.0	808.9	808.5	808.1
140°	833.8	833.9	834.1	834.3	834.1	833.9	833.8	833.6	833.2	832.7	832.2
142.5°	855.4	855.5	855.5	855.5	855.5	855.5	855.4	855.4	855.2	854.8	854.4
145°	887.2	887.5	887.9	888.2	887.9	887.5	887.2	886.8	886.6	886.4	886.2
147.5°	914.8	914.9	915.1	915.3	915.1	914.9	914.8	914.6	914.4	914.3	914.2
150°	932.3	932.4	932.6	932.8	932.6	932.4	932.3	932.1	932.0	932.0	932.0
152.5°	948.1	948.0	947.9	947.8	947.9	948.0	948.1	948.2	948.1	947.9	947.6
155°	969.5	969.0	968.5	968.0	968.5	969.0	969.5	970.1	970.0	969.3	968.6
157.5°	987.6	986.7	985.8	984.9	985.8	986.7	987.6	988.5	988.5	987.6	986.7
160°	999.3	998.2	997.2	996.1	997.2	998.2	999.3	1000.3	1000.3	999.3	998.2
162.5°	1008.4	1007.2	1006.1	1004.9	1006.1	1007.2	1008.4	1009.6	1009.7	1008.6	1007.6
165°	1021.9	1020.4	1018.8	1017.2	1018.8	1020.4	1021.9	1023.5	1023.6	1022.2	1020.8
167.5°	1031.7	1029.9	1028.2	1026.5	1028.2	1029.9	1031.7	1033.4	1033.5	1032.0	1030.5
170°	1037.3	1035.6	1033.8	1032.1	1033.8	1035.6	1037.3	1039.0	1039.2	1037.8	1036.4
172.5°	1040.9	1039.0	1037.1	1035.2	1037.1	1039.0	1040.9	1042.7	1043.0	1041.6	1040.2
175°	1045.4	1043.3	1041.2	1039.1	1041.2	1043.3	1045.4	1047.5	1047.7	1046.2	1044.6
177.5°	1046.6	1045.0	1043.3	1041.6	1043.3	1045.0	1046.6	1048.3	1048.6	1047.5	1046.4
180°	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4



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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°	17.7	18.1	17.9	16.9	17.9	17.7	18.0	17.6	19.1	20.7	22.2
90°	18.2	17.2	15.8	14.4	13.0	11.6	10.0	8.1	6.2	4.3	2.3
92.5°	17.6	16.6	15.2	13.8	12.4	11.0	10.3	10.2	10.1	10.0	9.9
95°	18.2	17.2	17.0	16.9	16.7	16.5	19.4	25.3	31.2	37.1	43.0
97.5°	20.7	20.6	40.0	59.4	78.8	98.2	106.1	102.4	98.7	95.0	91.3
100°	31.4	34.4	58.4	82.4	106.3	130.3	140.7	137.6	134.5	131.4	128.2
102.5°	133.9	165.8	168.9	172.0	175.1	178.3	178.7	176.4	174.1	171.8	169.5
105°	245.5	243.9	243.1	242.2	241.3	240.5	239.5	238.5	237.4	236.4	235.3
107.5°	304.9	304.2	303.0	301.8	300.6	299.4	298.6	298.1	297.5	297.0	296.5
110°	345.2	344.8	343.8	342.7	341.7	340.6	339.9	339.3	338.8	338.3	337.8



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	384.2	384.2	383.7	383.2	382.8	382.3	381.6	380.6	379.7	378.7	377.8
115°	441.3	441.0	441.2	441.3	441.5	441.7	441.5	441.0	440.5	439.9	439.4
117.5°	499.7	499.8	499.4	499.0	498.6	498.3	497.7	497.0	496.3	495.6	494.9
120°	535.2	534.8	535.0	535.2	535.3	535.5	535.2	534.6	533.9	533.2	532.5
122.5°	570.7	570.5	570.2	570.0	569.7	569.5	569.2	568.7	568.3	567.9	567.5
125°	619.8	619.3	619.6	620.0	620.3	620.6	620.5	619.8	619.1	618.4	617.7
127.5°	669.5	669.6	668.8	668.0	667.2	666.4	665.9	665.8	665.6	665.4	665.2
130°	699.2	699.0	698.5	698.0	697.4	696.9	696.6	696.4	696.2	696.1	695.9
132.5°	728.6	728.4	727.7	727.1	726.4	725.8	725.3	725.0	724.7	724.3	724.0
135°	768.9	768.6	767.9	767.2	766.5	765.8	765.6	765.7	765.9	766.1	766.3
137.5°	807.8	807.4	806.6	805.9	805.1	804.3	803.9	803.8	803.8	803.7	803.6
140°	831.7	831.1	830.8	830.5	830.1	829.8	829.4	829.1	828.7	828.4	828.0
142.5°	854.1	853.7	853.5	853.3	853.0	852.8	852.4	851.8	851.2	850.5	849.9
145°	886.1	885.9	885.9	885.9	885.9	885.9	885.6	885.1	884.6	884.1	883.5
147.5°	914.0	913.9	914.0	914.2	914.4	914.6	914.2	913.2	912.2	911.3	910.3
150°	932.0	932.0	932.2	932.4	932.5	932.7	932.4	931.8	931.1	930.4	929.7
152.5°	947.3	947.0	947.3	947.7	948.0	948.3	948.2	947.6	947.0	946.5	945.9
155°	967.9	967.2	967.7	968.2	968.8	969.3	969.5	969.3	969.1	968.9	968.8
157.5°	985.8	984.9	985.5	986.1	986.6	987.2	987.6	987.7	987.8	987.9	988.0
160°	997.2	996.1	996.3	996.5	996.7	996.8	997.2	997.7	998.2	998.7	999.3
162.5°	1006.6	1005.5	1005.7	1005.9	1006.0	1006.2	1006.6	1007.3	1007.9	1008.6	1009.3
165°	1019.4	1018.0	1018.0	1018.0	1018.0	1018.0	1018.5	1019.3	1020.2	1021.1	1021.9
167.5°	1028.9	1027.4	1027.5	1027.6	1027.7	1027.8	1028.3	1029.2	1030.1	1031.0	1031.9
170°	1035.0	1033.7	1033.5	1033.3	1033.1	1033.0	1033.4	1034.4	1035.5	1036.5	1037.6
172.5°	1038.8	1037.4	1037.2	1037.1	1036.9	1036.7	1037.2	1038.2	1039.2	1040.3	1041.3
175°	1043.0	1041.5	1041.3	1041.1	1041.0	1040.8	1041.2	1042.3	1043.3	1044.3	1045.4
177.5°	1045.2	1044.1	1043.9	1043.6	1043.3	1043.0	1043.4	1044.3	1045.3	1046.3	1047.3
180°	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4



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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°	21.9	20.4	18.2	18.0	18.3	17.3	18.2	18.5	18.8	18.3	19.8
90°	4.3	6.2	8.1	10.0	11.6	13.0	14.4	15.8	17.2	18.2	19.3
92.5°	10.0	10.1	10.2	10.3	11.0	12.4	13.8	15.2	16.6	17.6	18.7
95°	37.1	31.2	25.3	19.4	16.5	16.7	16.9	17.0	17.2	18.2	19.3
97.5°	95.0	98.7	102.4	106.1	98.2	78.8	59.4	40.0	20.6	20.7	20.9
100°	131.4	134.5	137.6	140.7	130.3	106.3	82.4	58.4	34.4	31.4	28.5
102.5°	171.8	174.1	176.4	178.7	178.3	175.1	172.0	168.9	165.8	133.9	102.0
105°	236.4	237.4	238.5	239.5	240.5	241.3	242.2	243.1	243.9	245.5	247.1
107.5°	297.0	297.5	298.1	298.6	299.4	300.6	301.8	303.0	304.2	304.9	305.7
110°	338.3	338.8	339.3	339.9	340.6	341.7	342.7	343.8	344.8	345.2	345.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	378.7	379.7	380.6	381.6	382.3	382.8	383.2	383.7	384.2	384.2	384.1
115°	439.9	440.5	441.0	441.5	441.7	441.5	441.3	441.2	441.0	441.3	441.7
117.5°	495.6	496.3	497.0	497.7	498.3	498.6	499.0	499.4	499.8	499.7	499.6
120°	533.2	533.9	534.6	535.2	535.5	535.3	535.2	535.0	534.8	535.2	535.5
122.5°	567.9	568.3	568.7	569.2	569.5	569.7	570.0	570.2	570.5	570.7	570.9
125°	618.4	619.1	619.8	620.5	620.6	620.3	620.0	619.6	619.3	619.8	620.3
127.5°	665.4	665.6	665.8	665.9	666.4	667.2	668.0	668.8	669.6	669.5	669.4
130°	696.1	696.2	696.4	696.6	696.9	697.4	698.0	698.5	699.0	699.2	699.4
132.5°	724.3	724.7	725.0	725.3	725.8	726.4	727.1	727.7	728.4	728.6	728.8
135°	766.1	765.9	765.7	765.6	765.8	766.5	767.2	767.9	768.6	768.9	769.3
137.5°	803.7	803.8	803.8	803.9	804.3	805.1	805.9	806.6	807.4	807.8	808.1
140°	828.4	828.7	829.1	829.4	829.8	830.1	830.5	830.8	831.1	831.7	832.2
142.5°	850.5	851.2	851.8	852.4	852.8	853.0	853.3	853.5	853.7	854.1	854.4
145°	884.1	884.6	885.1	885.6	885.9	885.9	885.9	885.9	885.9	886.1	886.2
147.5°	911.3	912.2	913.2	914.2	914.6	914.4	914.2	914.0	913.9	914.0	914.2
150°	930.4	931.1	931.8	932.4	932.7	932.5	932.4	932.2	932.0	932.0	932.0
152.5°	946.5	947.0	947.6	948.2	948.3	948.0	947.7	947.3	947.0	947.3	947.6
155°	968.9	969.1	969.3	969.5	969.3	968.8	968.2	967.7	967.2	967.9	968.6
157.5°	987.9	987.8	987.7	987.6	987.2	986.6	986.1	985.5	984.9	985.8	986.7
160°	998.7	998.2	997.7	997.2	996.8	996.7	996.5	996.3	996.1	997.2	998.2
162.5°	1008.6	1007.9	1007.3	1006.6	1006.2	1006.0	1005.9	1005.7	1005.5	1006.6	1007.6
165°	1021.1	1020.2	1019.3	1018.5	1018.0	1018.0	1018.0	1018.0	1018.0	1019.4	1020.8
167.5°	1031.0	1030.1	1029.2	1028.3	1027.8	1027.7	1027.6	1027.5	1027.4	1028.9	1030.5
170°	1036.5	1035.5	1034.4	1033.4	1033.0	1033.1	1033.3	1033.5	1033.7	1035.0	1036.4
172.5°	1040.3	1039.2	1038.2	1037.2	1036.7	1036.9	1037.1	1037.2	1037.4	1038.8	1040.2
175°	1044.3	1043.3	1042.3	1041.2	1040.8	1041.0	1041.1	1041.3	1041.5	1043.0	1044.6
177.5°	1046.3	1045.3	1044.3	1043.4	1043.0	1043.3	1043.6	1043.9	1044.1	1045.2	1046.4
180°	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4



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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°	18.8	18.3	19.1	18.5	18.6	18.0	18.7
90°	20.3	21.4	22.1	22.4	22.8	23.1	23.5
92.5°	19.7	20.7	21.3	21.4	21.4	21.5	21.6
95°	20.3	21.4	22.0	22.2	22.3	22.5	22.7
97.5°	21.0	21.1	21.2	21.4	21.5	21.7	21.9
100°	25.5	22.6	21.2	21.4	21.5	21.7	21.9
102.5°	70.2	38.3	22.4	22.4	22.4	22.5	22.5
105°	248.6	250.2	247.9	241.6	235.3	229.1	222.8
107.5°	306.4	307.2	307.9	308.6	309.2	309.9	310.6
110°	345.9	346.2	346.6	347.2	347.7	348.2	348.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	384.0	383.9	384.2	384.9	385.6	386.2	386.9
115°	442.0	442.4	442.6	442.6	442.6	442.6	442.6
117.5°	499.6	499.5	499.4	499.4	499.3	499.2	499.2
120°	535.9	536.2	536.2	535.9	535.5	535.2	534.8
122.5°	571.1	571.3	571.2	570.9	570.5	570.2	569.8
125°	620.8	621.3	621.7	621.9	622.0	622.2	622.4
127.5°	669.3	669.2	669.1	668.9	668.8	668.7	668.5
130°	699.5	699.7	699.8	699.8	699.8	699.8	699.8
132.5°	728.9	729.1	729.1	729.0	728.8	728.7	728.6
135°	769.6	770.0	770.3	770.7	771.0	771.4	771.7
137.5°	808.5	808.9	809.0	808.9	808.8	808.7	808.6
140°	832.7	833.2	833.6	833.8	833.9	834.1	834.3
142.5°	854.8	855.2	855.4	855.4	855.5	855.5	855.5
145°	886.4	886.6	886.8	887.2	887.5	887.9	888.2
147.5°	914.3	914.4	914.6	914.8	914.9	915.1	915.3
150°	932.0	932.0	932.1	932.3	932.4	932.6	932.8
152.5°	947.9	948.1	948.2	948.1	948.0	947.9	947.8
155°	969.3	970.0	970.1	969.5	969.0	968.5	968.0
157.5°	987.6	988.5	988.5	987.6	986.7	985.8	984.9
160°	999.3	1000.3	1000.3	999.3	998.2	997.2	996.1
162.5°	1008.6	1009.7	1009.6	1008.4	1007.2	1006.1	1004.9
165°	1022.2	1023.6	1023.5	1021.9	1020.4	1018.8	1017.2
167.5°	1032.0	1033.5	1033.4	1031.7	1029.9	1028.2	1026.5
170°	1037.8	1039.2	1039.0	1037.3	1035.6	1033.8	1032.1
172.5°	1041.6	1043.0	1042.7	1040.9	1039.0	1037.1	1035.2
175°	1046.2	1047.7	1047.5	1045.4	1043.3	1041.2	1039.1
177.5°	1047.5	1048.6	1048.3	1046.6	1045.0	1043.3	1041.6
180°	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4

(END OF REPORT)