

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: P332707

Luminaire Tested: **S124DIP-S1195D1205U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332707  
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: S124DIP-S1195D1205U835-4F0-1E-UDD-A1  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1205 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9489.9 lumens  
Efficiency: N/A  
Efficacy: 132.4 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse

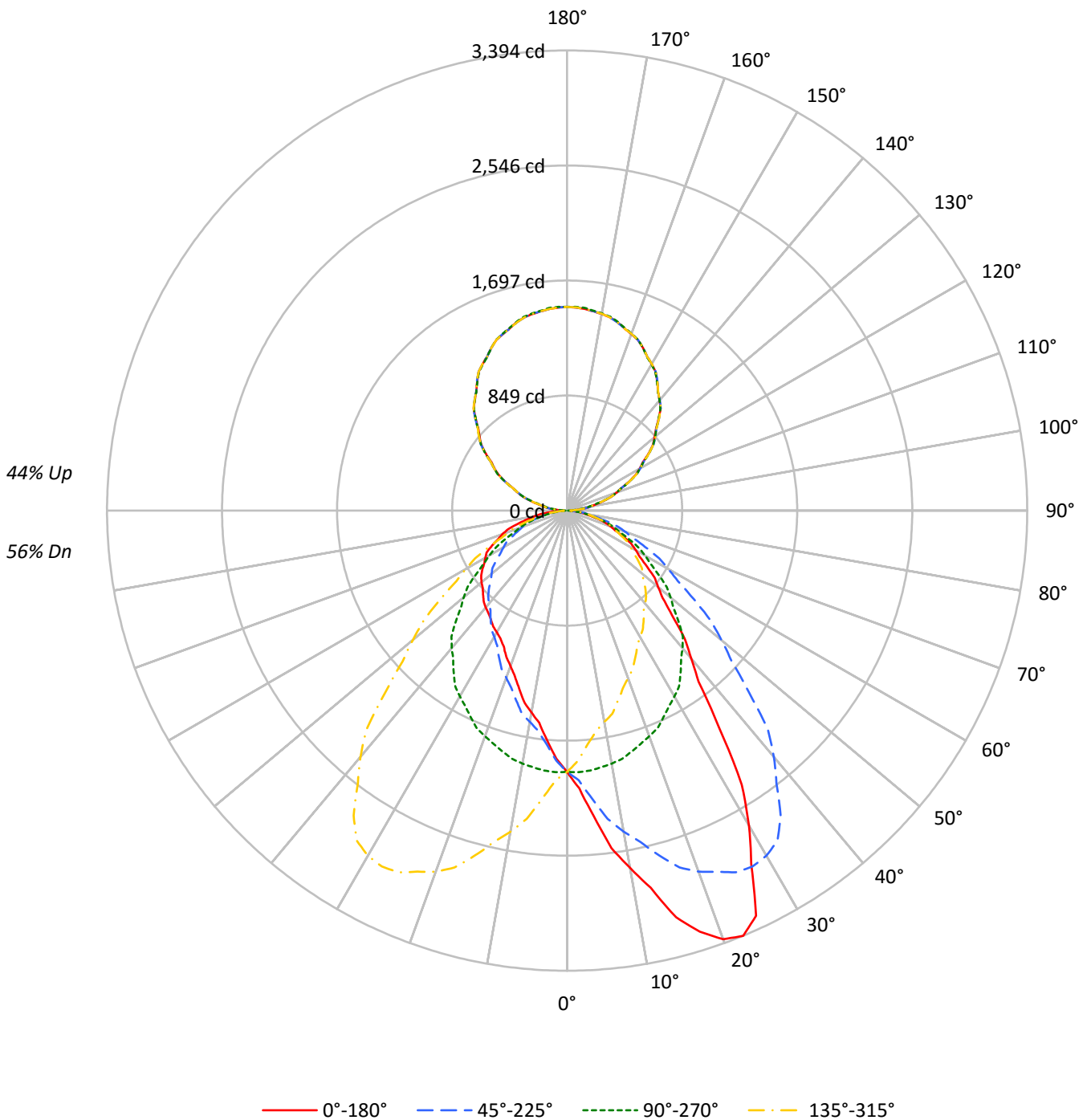
Input Watts (W): 71.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	88	92	89	85	82	76	74	72	65	63	62	55	54	53	48
2	91	83	77	72	84	78	72	68	67	63	60	58	55	52	49	47	45	40
3	83	74	66	60	77	69	62	57	60	55	51	51	47	44	43	41	38	34
4	76	65	57	51	70	61	54	49	53	48	43	46	42	38	39	36	33	30
5	70	58	50	44	65	55	47	42	48	42	38	41	37	33	35	32	29	26
6	64	52	44	38	60	49	42	37	43	37	33	37	33	29	32	28	26	23
7	60	47	39	34	55	45	37	32	39	33	29	34	29	26	29	26	23	20
8	55	43	35	30	52	41	34	29	36	30	26	31	27	23	27	23	21	18
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	19	17
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	23	20	17	15

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	15560	15560	15560	15560
5°	18323	15600	13768	15600
10°	21939	15531	12396	15531
15°	25957	15374	11384	15374
20°	28905	15214	10481	15214
25°	29372	14978	9857	14978
30°	24993	14752	9660	14752
35°	19215	14384	9662	14384
40°	14977	13951	9844	13951
45°	12488	13300	10009	13300
50°	10991	12504	10349	12504
55°	10069	11553	10766	11553
60°	9436	10700	11267	10700
65°	8785	9746	11683	9746
70°	8028	8802	11948	8802
75°	7171	7745	11803	7745
80°	6011	6346	11432	6346
85°	4437	4585	10948	4585



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.8	2.0
10°-20°	578.8	6.1
20°-30°	917.8	9.7
30°-40°	1021.3	10.8
40°-50°	929.7	9.8
50°-60°	759.7	8.0
60°-70°	542.4	5.7
70°-80°	298.7	3.1
80°-90°	86.0	0.9
90°-100°	99.1	1.0
100°-110°	293.5	3.1
110°-120°	498.2	5.2
120°-130°	656.9	6.9
130°-140°	737.7	7.8
140°-150°	724.9	7.6
150°-160°	609.7	6.4
160°-170°	405.7	4.3
170°-180°	142.1	1.5
0°-30°	1684.3	17.7
0°-40°	2705.6	28.5
0°-60°	4395.1	46.3
0°-90°	5322.1	56.1
90°-120°	890.8	9.4
90°-150°	3010.3	31.7
90°-180°	4168.0	43.9
0°-180°	9489.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1927	1927	1927	1927	1927	
5°	2261	1925	1699	1925	2261	230
15°	3106	1840	1362	1840	3106	878
25°	3297	1682	1107	1682	3297	1454
35°	1950	1460	980	1460	1950	1238
45°	1094	1165	877	1165	1094	862
55°	715	821	765	821	715	646
65°	460	510	612	510	460	455
75°	230	248	378	248	230	244
85°	48	50	118	50	48	59
90°	35	4	35	4	35	20
95°	92	70	92	70	92	96
105°	284	271	284	271	284	299
115°	502	506	502	506	502	496
125°	732	738	732	738	732	653
135°	953	952	953	952	953	736
145°	1157	1156	1157	1156	1157	724
155°	1323	1324	1323	1324	1323	609
165°	1438	1442	1438	1442	1438	405
175°	1493	1500	1493	1500	1493	142
180°	1502	1502	1502	1502	1502	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	2051.3	2050.6	2044.3	2043.0	2038.5	2032.8	2031.5	2021.3	2000.8	1991.2	1988.7
5°	2261.1	2277.1	2256.3	2252.3	2249.9	2223.6	2210.0	2194.0	2157.3	2135.8	2119.0
7.5°	2511.5	2513.4	2504.3	2497.0	2476.7	2453.7	2419.2	2382.5	2338.7	2293.2	2258.9
10°	2676.3	2682.7	2672.3	2670.7	2630.0	2604.4	2553.3	2510.2	2460.7	2405.6	2355.3
12.5°	2850.0	2841.1	2835.8	2801.6	2794.1	2747.5	2688.1	2643.7	2567.4	2504.0	2437.1
15°	3105.8	3088.3	3077.1	3030.0	3006.8	2942.1	2879.1	2830.4	2730.6	2635.6	2563.7
17.5°	3255.9	3273.5	3247.6	3228.3	3168.4	3123.1	3058.6	2956.4	2878.3	2760.3	2669.6
20°	3364.5	3366.1	3351.7	3331.8	3284.7	3227.2	3156.9	3045.1	2951.7	2834.4	2709.8
22.5°	3393.9	3394.2	3388.1	3369.5	3333.8	3287.2	3216.3	3123.1	3009.9	2882.3	2757.7
25°	3297.4	3294.2	3301.4	3322.2	3308.6	3294.2	3253.5	3184.1	3078.7	2943.7	2809.6
27.5°	2939.1	2961.1	3001.7	3052.8	3102.0	3139.5	3150.1	3135.8	3070.5	2959.6	2819.0
30°	2681.1	2708.2	2738.6	2789.6	2888.7	2945.3	3007.6	3054.7	3028.4	2939.8	2808.8
32.5°	2397.5	2404.2	2449.2	2507.3	2598.0	2707.1	2805.8	2901.4	2933.2	2886.7	2777.5
35°	1949.7	1960.9	2009.6	2067.1	2178.1	2311.4	2459.9	2592.4	2701.8	2745.7	2689.8
37.5°	1591.1	1623.2	1657.5	1719.3	1817.0	1937.1	2091.4	2262.9	2425.9	2535.1	2553.6
40°	1421.2	1441.1	1465.9	1513.0	1596.0	1714.2	1846.7	2043.1	2216.4	2372.9	2424.0
42.5°	1287.0	1298.7	1313.9	1356.5	1419.7	1537.3	1658.3	1831.1	2005.0	2192.1	2277.7
45°	1093.8	1105.8	1131.3	1156.1	1204.0	1285.4	1398.0	1540.1	1715.0	1895.4	2053.5
47.5°	954.3	961.9	977.1	1003.6	1044.3	1098.0	1189.6	1308.3	1470.4	1645.5	1814.0
50°	875.1	881.4	893.4	917.4	948.5	996.4	1071.5	1182.4	1309.4	1485.8	1651.1
52.5°	812.5	815.0	823.8	840.1	864.8	905.1	966.7	1058.5	1176.5	1333.8	1498.5
55°	715.4	718.6	726.6	738.5	760.1	785.6	832.7	901.4	1004.4	1140.9	1283.8
57.5°	635.5	637.8	644.5	649.1	666.8	687.6	723.8	772.9	850.9	966.7	1094.3
60°	584.4	582.8	590.8	594.8	606.8	624.4	652.3	699.4	767.3	860.7	978.1
62.5°	534.6	532.4	539.1	544.4	551.2	566.2	589.1	626.0	681.0	765.5	866.9
65°	459.9	456.7	460.7	467.1	473.5	481.4	498.2	530.9	574.9	635.5	713.0
67.5°	384.8	388.2	388.8	392.0	395.7	406.6	418.0	441.2	472.2	520.7	586.4
70°	340.1	340.9	344.1	344.1	346.5	356.1	365.7	379.2	409.6	454.3	507.8
72.5°	295.4	298.8	297.5	300.0	301.8	308.2	315.2	328.1	354.0	387.2	432.4
75°	229.9	232.3	232.3	233.1	235.5	237.9	243.5	253.1	271.5	296.2	327.3
77.5°	167.7	168.0	169.1	172.0	172.0	175.8	180.0	187.6	196.7	213.7	232.7
80°	129.3	130.9	130.1	131.7	131.7	134.9	136.5	146.1	150.1	161.3	176.4
82.5°	94.9	96.4	96.3	98.5	99.8	100.4	102.7	106.5	110.5	120.4	126.6
85°	47.9	49.5	47.9	49.5	51.9	52.7	55.1	55.9	59.1	61.5	67.1
87.5°	21.0	22.8	22.7	23.3	24.4	24.9	25.2	24.3	26.5	26.8	29.0
90°	34.9	34.3	33.8	33.3	32.8	31.8	30.2	28.7	27.1	25.6	23.5
92.5°	51.6	51.3	51.0	50.7	50.3	49.7	48.8	47.9	46.9	46.0	44.6
95°	91.8	91.8	91.8	91.8	91.8	91.4	90.6	89.8	89.1	88.3	86.5
97.5°	143.8	143.8	143.8	143.8	143.8	143.4	142.4	141.5	140.6	139.6	137.5
100°	180.1	180.1	180.1	180.1	180.1	179.8	179.3	178.8	178.3	177.8	175.4
102.5°	221.0	220.8	220.6	220.4	220.1	219.7	219.0	218.2	217.5	216.8	214.7
105°	283.5	282.7	281.9	281.2	280.4	279.6	278.8	278.1	277.3	276.5	275.5
107.5°	344.4	344.4	344.5	344.5	344.6	344.2	343.5	342.8	342.1	341.3	341.2
110°	388.0	387.3	386.5	385.7	384.9	384.8	385.3	385.8	386.4	386.9	387.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	432.7	432.5	432.3	432.2	432.0	432.0	432.1	432.2	432.3	432.4	432.9
115°	501.9	502.2	502.4	502.7	502.9	503.2	503.4	503.7	504.0	504.2	504.7
117.5°	567.9	568.4	568.9	569.4	570.0	570.6	571.5	572.4	573.3	574.2	574.5
120°	618.1	617.6	617.0	616.5	616.0	616.4	617.7	619.0	620.3	621.6	622.3
122.5°	659.9	660.8	661.8	662.7	663.6	664.5	665.4	666.3	667.2	668.0	668.4
125°	731.9	732.4	733.0	733.5	734.0	734.5	735.0	735.5	736.1	736.6	736.8
127.5°	798.6	799.0	799.4	799.9	800.3	800.7	801.3	801.8	802.3	802.8	803.2
130°	842.3	843.3	844.4	845.4	846.4	847.2	847.7	848.2	848.8	849.3	849.3
132.5°	888.8	889.2	889.6	890.0	890.4	890.9	891.4	891.9	892.4	893.0	893.2
135°	952.7	953.4	954.2	955.0	955.8	956.4	956.9	957.5	958.0	958.5	958.5
137.5°	1019.8	1019.7	1019.5	1019.4	1019.2	1019.5	1020.1	1020.8	1021.5	1022.1	1021.7
140°	1060.7	1061.0	1061.2	1061.5	1061.8	1062.0	1062.3	1062.5	1062.8	1063.0	1063.0
142.5°	1101.6	1101.7	1101.7	1101.8	1101.8	1101.9	1101.9	1102.0	1102.0	1102.1	1102.3
145°	1157.2	1157.9	1158.7	1159.5	1160.2	1160.8	1161.0	1161.3	1161.5	1161.8	1161.5
147.5°	1213.4	1213.6	1213.9	1214.2	1214.4	1214.6	1214.9	1215.1	1215.3	1215.5	1215.7
150°	1247.8	1248.0	1248.3	1248.5	1248.8	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9
152.5°	1279.4	1280.0	1280.7	1281.4	1282.1	1282.1	1281.5	1280.8	1280.2	1279.6	1279.4
155°	1323.3	1324.3	1325.4	1326.4	1327.4	1327.4	1326.4	1325.4	1324.3	1323.3	1323.5
157.5°	1362.6	1363.4	1364.3	1365.2	1366.1	1366.1	1365.3	1364.6	1363.8	1363.0	1363.1
160°	1384.9	1386.2	1387.4	1388.7	1390.0	1390.3	1389.5	1388.7	1388.0	1387.2	1387.4
162.5°	1408.1	1409.4	1410.7	1412.0	1413.3	1413.2	1411.8	1410.4	1409.0	1407.6	1407.9
165°	1438.3	1439.3	1440.4	1441.4	1442.4	1442.2	1440.6	1439.1	1437.5	1436.0	1436.5
167.5°	1459.9	1461.5	1463.1	1464.7	1466.3	1466.3	1464.8	1463.2	1461.7	1460.1	1460.1
170°	1472.0	1473.8	1475.6	1477.4	1479.2	1479.4	1477.8	1476.3	1474.7	1473.2	1472.9
172.5°	1482.2	1484.0	1485.8	1487.6	1489.5	1489.5	1487.7	1486.0	1484.2	1482.5	1482.4
175°	1492.9	1494.7	1496.5	1498.3	1500.1	1500.1	1498.3	1496.5	1494.7	1492.9	1493.2
177.5°	1498.5	1500.1	1501.8	1503.4	1505.1	1505.2	1503.8	1502.3	1500.9	1499.4	1499.4
180°	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	1989.3	1980.4	1974.0	1968.9	1954.8	1946.5	1940.1	1931.2	1921.0	1910.1	1896.7
5°	2102.2	2075.1	2055.1	2024.8	1996.0	1972.1	1947.3	1925.0	1897.8	1868.3	1846.7
7.5°	2220.9	2180.5	2128.7	2083.9	2033.4	1989.5	1950.2	1910.0	1868.1	1827.6	1790.4
10°	2296.2	2244.3	2186.8	2119.0	2055.1	1998.4	1945.7	1894.6	1845.1	1795.6	1753.3
12.5°	2377.4	2312.7	2227.7	2148.4	2076.8	2001.0	1937.4	1874.8	1815.1	1763.1	1713.7
15°	2486.3	2392.8	2294.6	2188.4	2094.2	2005.6	1918.6	1839.5	1772.5	1703.8	1655.9
17.5°	2553.2	2437.6	2325.3	2214.3	2100.3	1988.5	1894.6	1803.5	1719.5	1651.3	1590.9
20°	2597.2	2482.3	2342.5	2231.6	2095.8	1980.9	1872.3	1770.9	1683.1	1610.4	1548.1
22.5°	2635.6	2502.7	2363.0	2216.9	2081.8	1959.8	1841.0	1738.9	1649.2	1572.7	1513.0
25°	2656.3	2503.8	2352.1	2206.8	2053.5	1909.0	1801.2	1681.5	1585.6	1505.0	1441.1
27.5°	2658.6	2495.5	2323.9	2162.4	2004.2	1869.6	1733.5	1626.5	1527.0	1441.8	1380.5
30°	2651.5	2481.5	2297.0	2122.2	1963.3	1817.2	1699.0	1582.5	1481.1	1396.4	1332.5
32.5°	2629.2	2452.1	2262.5	2077.5	1912.8	1769.9	1647.9	1537.1	1438.3	1354.9	1287.8
35°	2564.5	2389.6	2187.6	1995.2	1826.8	1682.3	1572.1	1459.5	1360.5	1281.5	1216.8
37.5°	2463.4	2305.3	2100.0	1900.9	1735.4	1590.3	1481.1	1379.3	1290.1	1209.8	1143.5
40°	2375.3	2236.4	2030.4	1836.3	1657.5	1519.4	1417.2	1323.8	1235.1	1159.3	1096.2
42.5°	2273.7	2152.7	1962.7	1757.1	1584.7	1445.9	1346.3	1262.4	1178.9	1108.8	1045.8
45°	2092.6	2012.8	1834.0	1643.9	1464.3	1333.3	1238.3	1164.9	1094.6	1026.0	973.3
47.5°	1884.4	1844.8	1694.2	1513.8	1343.2	1214.2	1131.8	1064.0	1002.3	944.2	897.7
50°	1744.5	1725.4	1595.2	1421.2	1258.3	1136.9	1053.9	995.6	942.9	891.8	847.9
52.5°	1606.6	1605.9	1488.6	1329.2	1178.5	1061.6	979.2	924.7	879.1	837.5	798.1
55°	1395.6	1418.0	1326.2	1184.0	1049.1	943.7	869.5	820.8	788.8	754.5	725.0
57.5°	1201.9	1239.0	1163.3	1038.1	925.5	828.4	763.8	727.2	693.2	672.4	650.9
60°	1075.5	1110.6	1051.5	946.1	839.9	756.9	695.4	662.7	633.1	618.8	603.6
62.5°	963.0	994.3	950.6	852.9	760.7	680.9	629.0	597.5	577.6	561.9	551.9
65°	802.4	828.8	791.2	720.2	641.1	577.3	534.9	510.2	491.0	484.6	473.5
67.5°	648.6	672.6	652.3	591.9	528.5	480.2	447.1	423.3	412.0	406.4	398.4
70°	557.3	581.2	559.7	507.0	458.3	417.6	386.4	372.9	360.9	358.5	347.3
72.5°	480.0	496.3	474.7	433.5	391.9	357.5	333.4	319.2	313.0	308.7	302.6
75°	360.1	374.5	360.1	328.1	298.6	274.7	253.9	248.3	241.1	238.7	234.7
77.5°	254.9	267.3	256.3	236.3	214.3	195.8	184.6	177.4	175.8	171.7	173.6
80°	194.8	202.8	192.4	178.8	161.3	148.5	140.5	136.5	131.7	130.1	133.3
82.5°	139.9	143.4	138.1	129.0	115.9	107.6	102.2	97.6	96.6	96.9	96.9
85°	72.7	71.9	71.1	63.1	59.1	53.5	50.3	49.5	48.7	50.3	51.9
87.5°	28.6	28.8	27.7	24.7	22.2	19.7	18.5	17.3	18.5	19.7	20.9
90°	21.4	19.4	17.3	14.8	12.0	9.2	6.3	3.5	6.3	9.2	12.0
92.5°	43.1	41.7	40.2	37.9	34.6	31.4	28.1	24.9	28.1	31.4	34.6
95°	84.7	82.9	81.1	79.0	76.7	74.4	72.0	69.7	72.0	74.4	76.7
97.5°	135.4	133.3	131.2	129.2	127.3	125.5	123.6	121.8	123.6	125.5	127.3
100°	173.1	170.8	168.5	166.8	165.7	164.7	163.7	162.7	163.7	164.7	165.7
102.5°	212.6	210.4	208.3	207.1	206.6	206.2	205.8	205.4	205.8	206.2	206.6
105°	274.4	273.4	272.4	271.7	271.5	271.2	271.0	270.7	271.0	271.2	271.5
107.5°	341.0	340.9	340.7	340.5	340.2	339.9	339.6	339.2	339.6	339.9	340.2
110°	387.4	387.7	387.9	387.8	387.3	386.7	386.2	385.7	386.2	386.7	387.3





TEST NUMBER: P332707

CATALOG NUMBER: S124DIP-S1195D1205U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	433.4	433.8	434.3	434.5	434.4	434.3	434.2	434.0	434.2	434.3	434.4
115°	505.3	505.8	506.3	506.5	506.5	506.5	506.5	506.5	506.5	506.5	506.5
117.5°	574.9	575.2	575.6	575.7	575.5	575.3	575.1	574.9	575.1	575.3	575.5
120°	623.1	623.9	624.7	624.5	623.5	622.5	621.4	620.4	621.4	622.5	623.5
122.5°	668.8	669.1	669.5	669.5	669.0	668.6	668.2	667.8	668.2	668.6	669.0
125°	737.1	737.4	737.6	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7
127.5°	803.6	804.0	804.5	804.3	803.5	802.7	802.0	801.2	802.0	802.7	803.5
130°	849.3	849.3	849.3	848.9	848.1	847.3	846.6	845.8	846.6	847.3	848.1
132.5°	893.4	893.6	893.8	893.6	893.0	892.5	891.9	891.3	891.9	892.5	893.0
135°	958.5	958.5	958.5	957.7	956.2	954.6	953.1	951.5	953.1	954.6	956.2
137.5°	1021.3	1020.9	1020.5	1019.9	1019.2	1018.5	1017.8	1017.0	1017.8	1018.5	1019.2
140°	1063.0	1063.0	1063.0	1062.8	1062.3	1061.8	1061.2	1060.7	1061.2	1061.8	1062.3
142.5°	1102.5	1102.7	1102.9	1102.8	1102.2	1101.7	1101.2	1100.7	1101.2	1101.7	1102.2
145°	1161.3	1161.0	1160.8	1160.1	1159.1	1158.1	1157.0	1156.0	1157.0	1158.1	1159.1
147.5°	1215.9	1216.1	1216.3	1215.8	1214.5	1213.3	1212.1	1210.8	1212.1	1213.3	1214.5
150°	1248.9	1248.9	1248.9	1248.4	1247.4	1246.4	1245.3	1244.3	1245.3	1246.4	1247.4
152.5°	1279.2	1279.0	1278.8	1278.4	1277.7	1277.1	1276.5	1275.9	1276.5	1277.1	1277.7
155°	1323.8	1324.1	1324.3	1324.4	1324.4	1324.4	1324.4	1324.4	1324.4	1324.4	1324.4
157.5°	1363.1	1363.2	1363.2	1363.5	1364.0	1364.4	1364.9	1365.3	1364.9	1364.4	1364.0
160°	1387.7	1388.0	1388.2	1388.5	1388.7	1389.0	1389.3	1389.5	1389.3	1389.0	1388.7
162.5°	1408.2	1408.4	1408.7	1409.1	1409.8	1410.5	1411.1	1411.8	1411.1	1410.5	1409.8
165°	1437.0	1437.5	1438.0	1438.7	1439.5	1440.2	1441.0	1441.8	1441.0	1440.2	1439.5
167.5°	1460.0	1460.0	1459.9	1460.5	1461.5	1462.6	1463.7	1464.8	1463.7	1462.6	1461.5
170°	1472.6	1472.4	1472.1	1472.6	1473.9	1475.2	1476.5	1477.8	1476.5	1475.2	1473.9
172.5°	1482.4	1482.3	1482.2	1482.8	1483.8	1484.9	1486.0	1487.1	1486.0	1484.9	1483.8
175°	1493.4	1493.7	1493.9	1494.7	1496.0	1497.3	1498.6	1499.9	1498.6	1497.3	1496.0
177.5°	1499.4	1499.4	1499.4	1499.9	1501.0	1502.0	1503.0	1504.1	1503.0	1502.0	1501.0
180°	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2



TEST NUMBER: P332707

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	1890.3	1884.6	1876.3	1864.8	1855.2	1845.0	1842.4	1838.6	1846.2	1839.9	1837.9
5°	1828.4	1811.6	1790.0	1765.3	1750.9	1730.2	1726.2	1718.2	1710.2	1709.4	1701.4
7.5°	1762.7	1738.1	1709.9	1684.6	1661.3	1638.7	1623.8	1620.6	1608.8	1601.9	1593.9
10°	1720.6	1690.2	1657.5	1633.6	1606.4	1582.5	1565.7	1556.1	1548.1	1539.3	1531.4
12.5°	1670.8	1638.5	1611.5	1585.6	1553.4	1535.2	1507.6	1491.0	1489.4	1489.5	1468.8
15°	1612.8	1580.9	1539.3	1502.6	1485.0	1449.9	1434.7	1415.6	1403.6	1391.6	1382.1
17.5°	1546.5	1506.8	1474.3	1432.2	1398.7	1370.7	1350.8	1339.3	1321.2	1304.3	1292.0
20°	1505.0	1462.7	1428.4	1383.6	1346.9	1312.6	1295.8	1279.9	1266.3	1251.9	1238.3
22.5°	1462.8	1418.6	1376.6	1333.2	1299.0	1262.8	1246.6	1224.9	1212.0	1204.0	1190.4
25°	1396.4	1348.5	1300.6	1259.1	1224.0	1192.0	1170.5	1153.7	1139.3	1132.9	1124.2
27.5°	1324.2	1276.7	1230.4	1183.2	1143.3	1120.2	1102.9	1090.3	1082.0	1073.5	1069.6
30°	1278.3	1228.8	1179.3	1135.3	1098.6	1075.5	1059.5	1050.7	1044.3	1040.3	1036.3
32.5°	1231.6	1182.8	1130.7	1090.6	1057.7	1037.1	1025.0	1016.2	1013.0	1011.6	1010.2
35°	1156.9	1107.4	1059.5	1023.6	992.4	984.4	974.1	969.3	967.7	973.3	975.7
37.5°	1084.6	1038.6	994.5	959.7	939.3	927.6	924.1	924.2	930.0	934.9	940.7
40°	1037.9	993.2	951.7	921.4	902.2	895.0	893.4	897.4	903.8	909.4	915.8
42.5°	992.6	948.5	910.8	882.4	869.0	862.4	863.4	867.4	876.3	883.2	892.8
45°	922.2	885.4	848.7	825.6	814.4	816.0	816.0	823.2	831.9	842.3	852.7
47.5°	855.9	818.9	788.7	769.2	763.4	762.0	766.5	775.9	788.5	801.3	815.8
50°	811.2	776.1	749.7	732.1	725.8	728.2	734.5	743.3	758.5	774.5	789.6
52.5°	765.8	733.9	709.5	693.2	688.7	693.0	699.4	713.3	726.6	743.8	762.2
55°	695.4	668.3	649.1	637.1	635.5	637.9	645.1	660.3	679.4	701.0	718.6
57.5°	625.3	602.6	585.1	576.8	577.6	579.8	591.6	609.7	630.1	653.1	675.8
60°	578.0	557.3	542.9	536.5	537.3	542.1	556.5	573.3	598.8	621.2	645.1
62.5°	533.3	515.1	501.4	495.7	494.5	505.1	518.8	536.2	561.8	586.7	612.5
65°	461.5	447.1	435.9	432.7	435.1	443.1	460.7	483.8	505.4	531.7	558.9
67.5°	391.2	379.4	371.7	373.2	376.1	387.9	402.6	422.5	447.0	474.3	501.1
70°	346.5	335.3	328.9	329.7	334.5	348.9	361.7	381.6	408.0	435.9	458.3
72.5°	300.5	293.2	287.4	290.8	295.6	305.5	321.4	341.4	364.6	390.6	414.2
75°	230.7	230.7	227.5	229.9	237.1	246.7	258.7	279.4	302.6	323.4	342.5
77.5°	171.2	169.4	171.5	174.4	178.5	189.9	203.6	218.4	235.9	256.6	272.4
80°	130.9	131.7	135.7	140.5	142.1	150.9	165.3	178.8	192.4	210.0	225.2
82.5°	98.4	99.2	101.2	107.3	108.9	118.3	127.6	141.2	153.5	165.3	177.9
85°	53.5	53.5	57.5	59.9	63.9	70.3	75.8	83.8	95.0	103.0	115.0
87.5°	23.4	23.9	26.9	28.6	30.9	34.5	36.1	43.4	46.3	49.8	55.7
90°	14.8	17.3	19.4	21.4	23.5	25.6	27.1	28.7	30.2	31.8	32.8
92.5°	37.9	40.2	41.7	43.1	44.6	46.0	46.9	47.9	48.8	49.7	50.3
95°	79.0	81.1	82.9	84.7	86.5	88.3	89.1	89.8	90.6	91.4	91.8
97.5°	129.2	131.2	133.3	135.4	137.5	139.6	140.6	141.5	142.4	143.4	143.8
100°	166.8	168.5	170.8	173.1	175.4	177.8	178.3	178.8	179.3	179.8	180.1
102.5°	207.1	208.3	210.4	212.6	214.7	216.8	217.5	218.2	219.0	219.7	220.1
105°	271.7	272.4	273.4	274.4	275.5	276.5	277.3	278.1	278.8	279.6	280.4
107.5°	340.5	340.7	340.9	341.0	341.2	341.3	342.1	342.8	343.5	344.2	344.6
110°	387.8	387.9	387.7	387.4	387.1	386.9	386.4	385.8	385.3	384.8	384.9



TEST NUMBER: P332707

CATALOG NUMBER: S124DIP-S1195D1205U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	434.5	434.3	433.8	433.4	432.9	432.4	432.3	432.2	432.1	432.0	432.0
115°	506.5	506.3	505.8	505.3	504.7	504.2	504.0	503.7	503.4	503.2	502.9
117.5°	575.7	575.6	575.2	574.9	574.5	574.2	573.3	572.4	571.5	570.6	570.0
120°	624.5	624.7	623.9	623.1	622.3	621.6	620.3	619.0	617.7	616.4	616.0
122.5°	669.5	669.5	669.1	668.8	668.4	668.0	667.2	666.3	665.4	664.5	663.6
125°	737.7	737.6	737.4	737.1	736.8	736.6	736.1	735.5	735.0	734.5	734.0
127.5°	804.3	804.5	804.0	803.6	803.2	802.8	802.3	801.8	801.3	800.7	800.3
130°	848.9	849.3	849.3	849.3	849.3	849.3	848.8	848.2	847.7	847.2	846.4
132.5°	893.6	893.8	893.6	893.4	893.2	893.0	892.4	891.9	891.4	890.9	890.4
135°	957.7	958.5	958.5	958.5	958.5	958.5	958.0	957.5	956.9	956.4	955.8
137.5°	1019.9	1020.5	1020.9	1021.3	1021.7	1022.1	1021.5	1020.8	1020.1	1019.5	1019.2
140°	1062.8	1063.0	1063.0	1063.0	1063.0	1063.0	1062.8	1062.5	1062.3	1062.0	1061.8
142.5°	1102.8	1102.9	1102.7	1102.5	1102.3	1102.1	1102.0	1102.0	1101.9	1101.9	1101.8
145°	1160.1	1160.8	1161.0	1161.3	1161.5	1161.8	1161.5	1161.3	1161.0	1160.8	1160.2
147.5°	1215.8	1216.3	1216.1	1215.9	1215.7	1215.5	1215.3	1215.1	1214.9	1214.6	1214.4
150°	1248.4	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.8
152.5°	1278.4	1278.8	1279.0	1279.2	1279.4	1279.6	1280.2	1280.8	1281.5	1282.1	1282.1
155°	1324.4	1324.3	1324.1	1323.8	1323.5	1323.3	1324.3	1325.4	1326.4	1327.4	1327.4
157.5°	1363.5	1363.2	1363.2	1363.1	1363.1	1363.0	1363.8	1364.6	1365.3	1366.1	1366.1
160°	1388.5	1388.2	1388.0	1387.7	1387.4	1387.2	1388.0	1388.7	1389.5	1390.3	1390.0
162.5°	1409.1	1408.7	1408.4	1408.2	1407.9	1407.6	1409.0	1410.4	1411.8	1413.2	1413.3
165°	1438.7	1438.0	1437.5	1437.0	1436.5	1436.0	1437.5	1439.1	1440.6	1442.2	1442.4
167.5°	1460.5	1459.9	1460.0	1460.0	1460.1	1460.1	1461.7	1463.2	1464.8	1466.3	1466.3
170°	1472.6	1472.1	1472.4	1472.6	1472.9	1473.2	1474.7	1476.3	1477.8	1479.4	1479.2
172.5°	1482.8	1482.2	1482.3	1482.4	1482.4	1482.5	1484.2	1486.0	1487.7	1489.5	1489.5
175°	1494.7	1493.9	1493.7	1493.4	1493.2	1492.9	1494.7	1496.5	1498.3	1500.1	1500.1
177.5°	1499.9	1499.4	1499.4	1499.4	1499.4	1499.4	1500.9	1502.3	1503.8	1505.2	1505.1
180°	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2



TEST NUMBER: P332707

CATALOG NUMBER: S124DIP-S1195D1205U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	1836.7	1835.4	1830.9	1830.3	1830.9	1835.4	1836.7	1837.9	1839.9	1846.2	1838.6
5°	1696.6	1692.6	1690.2	1699.0	1690.2	1692.6	1696.6	1701.4	1709.4	1710.2	1718.2
7.5°	1591.1	1587.9	1580.9	1578.6	1580.9	1587.9	1591.1	1593.9	1601.9	1608.8	1620.6
10°	1523.4	1520.2	1513.8	1512.2	1513.8	1520.2	1523.4	1531.4	1539.3	1548.1	1556.1
12.5°	1458.2	1451.8	1450.6	1452.2	1450.6	1451.8	1458.2	1468.8	1489.5	1489.4	1491.0
15°	1371.7	1368.5	1359.7	1362.1	1359.7	1368.5	1371.7	1382.1	1391.6	1403.6	1415.6
17.5°	1286.4	1282.6	1271.9	1281.3	1271.9	1282.6	1286.4	1292.0	1304.3	1321.2	1339.3
20°	1232.7	1226.4	1220.8	1220.0	1220.8	1226.4	1232.7	1238.3	1251.9	1266.3	1279.9
22.5°	1181.6	1175.9	1175.4	1170.2	1175.4	1175.9	1181.6	1190.4	1204.0	1212.0	1224.9
25°	1117.8	1112.2	1110.6	1106.6	1110.6	1112.2	1117.8	1124.2	1132.9	1139.3	1153.7
27.5°	1068.8	1066.0	1063.2	1064.4	1063.2	1066.0	1068.8	1069.6	1073.5	1082.0	1090.3
30°	1038.7	1037.9	1036.3	1036.3	1036.3	1037.9	1038.7	1036.3	1040.3	1044.3	1050.7
32.5°	1013.8	1013.7	1014.6	1014.6	1014.6	1013.7	1013.8	1010.2	1011.6	1013.0	1016.2
35°	978.9	981.2	982.8	980.4	982.8	981.2	978.9	975.7	973.3	967.7	969.3
37.5°	947.2	949.6	951.9	954.6	951.9	949.6	947.2	940.7	934.9	930.0	924.2
40°	923.0	928.6	930.1	934.1	930.1	928.6	923.0	915.8	909.4	903.8	897.4
42.5°	900.0	906.2	910.3	911.1	910.3	906.2	900.0	892.8	883.2	876.3	867.4
45°	864.7	871.1	876.7	876.7	876.7	871.1	864.7	852.7	842.3	831.9	823.2
47.5°	828.1	837.4	843.0	844.4	843.0	837.4	828.1	815.8	801.3	788.5	775.9
50°	803.2	814.4	820.0	824.0	820.0	814.4	803.2	789.6	774.5	758.5	743.3
52.5°	778.9	790.1	797.6	799.7	797.6	790.1	778.9	762.2	743.8	726.6	713.3
55°	736.9	752.9	761.7	764.9	761.7	752.9	736.9	718.6	701.0	679.4	660.3
57.5°	697.3	712.0	722.2	724.6	722.2	712.0	697.3	675.8	653.1	630.1	609.7
60°	666.7	682.6	695.4	697.8	695.4	682.6	666.7	645.1	621.2	598.8	573.3
62.5°	635.4	652.0	663.5	669.7	663.5	652.0	635.4	612.5	586.7	561.8	536.2
65°	581.2	598.0	609.2	611.6	609.2	598.0	581.2	558.9	531.7	505.4	483.8
67.5°	522.2	538.9	546.3	550.9	546.3	538.9	522.2	501.1	474.3	447.0	422.5
70°	480.6	494.2	502.2	506.2	502.2	494.2	480.6	458.3	435.9	408.0	381.6
72.5°	433.4	447.6	456.9	457.6	456.9	447.6	433.4	414.2	390.6	364.6	341.4
75°	360.9	373.7	378.4	378.4	378.4	373.7	360.9	342.5	323.4	302.6	279.4
77.5°	285.7	292.2	298.3	299.6	298.3	292.2	285.7	272.4	256.6	235.9	218.4
80°	237.1	241.1	245.9	245.9	245.9	241.1	237.1	225.2	210.0	192.4	178.8
82.5°	187.3	190.7	195.5	194.8	195.5	190.7	187.3	177.9	165.3	153.5	141.2
85°	113.4	120.6	119.8	118.2	119.8	120.6	113.4	115.0	103.0	95.0	83.8
87.5°	57.8	58.5	60.5	61.9	60.5	58.5	57.8	55.7	49.8	46.3	43.4
90°	33.3	33.8	34.3	34.9	34.3	33.8	33.3	32.8	31.8	30.2	28.7
92.5°	50.7	51.0	51.3	51.6	51.3	51.0	50.7	50.3	49.7	48.8	47.9
95°	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.4	90.6	89.8
97.5°	143.8	143.8	143.8	143.8	143.8	143.8	143.8	143.8	143.4	142.4	141.5
100°	180.1	180.1	180.1	180.1	180.1	180.1	180.1	180.1	179.8	179.3	178.8
102.5°	220.4	220.6	220.8	221.0	220.8	220.6	220.4	220.1	219.7	219.0	218.2
105°	281.2	281.9	282.7	283.5	282.7	281.9	281.2	280.4	279.6	278.8	278.1
107.5°	344.5	344.5	344.4	344.4	344.4	344.5	344.5	344.6	344.2	343.5	342.8
110°	385.7	386.5	387.3	388.0	387.3	386.5	385.7	384.9	384.8	385.3	385.8



TEST NUMBER: P332707

CATALOG NUMBER: S124DIP-S1195D1205U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	432.2	432.3	432.5	432.7	432.5	432.3	432.2	432.0	432.0	432.1	432.2
115°	502.7	502.4	502.2	501.9	502.2	502.4	502.7	502.9	503.2	503.4	503.7
117.5°	569.4	568.9	568.4	567.9	568.4	568.9	569.4	570.0	570.6	571.5	572.4
120°	616.5	617.0	617.6	618.1	617.6	617.0	616.5	616.0	616.4	617.7	619.0
122.5°	662.7	661.8	660.8	659.9	660.8	661.8	662.7	663.6	664.5	665.4	666.3
125°	733.5	733.0	732.4	731.9	732.4	733.0	733.5	734.0	734.5	735.0	735.5
127.5°	799.9	799.4	799.0	798.6	799.0	799.4	799.9	800.3	800.7	801.3	801.8
130°	845.4	844.4	843.3	842.3	843.3	844.4	845.4	846.4	847.2	847.7	848.2
132.5°	890.0	889.6	889.2	888.8	889.2	889.6	890.0	890.4	890.9	891.4	891.9
135°	955.0	954.2	953.4	952.7	953.4	954.2	955.0	955.8	956.4	956.9	957.5
137.5°	1019.4	1019.5	1019.7	1019.8	1019.7	1019.5	1019.4	1019.2	1019.5	1020.1	1020.8
140°	1061.5	1061.2	1061.0	1060.7	1061.0	1061.2	1061.5	1061.8	1062.0	1062.3	1062.5
142.5°	1101.8	1101.7	1101.7	1101.6	1101.7	1101.7	1101.8	1101.8	1101.9	1101.9	1102.0
145°	1159.5	1158.7	1157.9	1157.2	1157.9	1158.7	1159.5	1160.2	1160.8	1161.0	1161.3
147.5°	1214.2	1213.9	1213.6	1213.4	1213.6	1213.9	1214.2	1214.4	1214.6	1214.9	1215.1
150°	1248.5	1248.3	1248.0	1247.8	1248.0	1248.3	1248.5	1248.8	1248.9	1248.9	1248.9
152.5°	1281.4	1280.7	1280.0	1279.4	1280.0	1280.7	1281.4	1282.1	1282.1	1281.5	1280.8
155°	1326.4	1325.4	1324.3	1323.3	1324.3	1325.4	1326.4	1327.4	1327.4	1326.4	1325.4
157.5°	1365.2	1364.3	1363.4	1362.6	1363.4	1364.3	1365.2	1366.1	1366.1	1365.3	1364.6
160°	1388.7	1387.4	1386.2	1384.9	1386.2	1387.4	1388.7	1390.0	1390.3	1389.5	1388.7
162.5°	1412.0	1410.7	1409.4	1408.1	1409.4	1410.7	1412.0	1413.3	1413.2	1411.8	1410.4
165°	1441.4	1440.4	1439.3	1438.3	1439.3	1440.4	1441.4	1442.4	1442.2	1440.6	1439.1
167.5°	1464.7	1463.1	1461.5	1459.9	1461.5	1463.1	1464.7	1466.3	1466.3	1464.8	1463.2
170°	1477.4	1475.6	1473.8	1472.0	1473.8	1475.6	1477.4	1479.2	1479.4	1477.8	1476.3
172.5°	1487.6	1485.8	1484.0	1482.2	1484.0	1485.8	1487.6	1489.5	1489.5	1487.7	1486.0
175°	1498.3	1496.5	1494.7	1492.9	1494.7	1496.5	1498.3	1500.1	1500.1	1498.3	1496.5
177.5°	1503.4	1501.8	1500.1	1498.5	1500.1	1501.8	1503.4	1505.1	1505.2	1503.8	1502.3
180°	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2



TEST NUMBER: P332707

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	1842.4	1845.0	1855.2	1864.8	1876.3	1884.6	1890.3	1896.7	1910.1	1921.0	1931.2
5°	1726.2	1730.2	1750.9	1765.3	1790.0	1811.6	1828.4	1846.7	1868.3	1897.8	1925.0
7.5°	1623.8	1638.7	1661.3	1684.6	1709.9	1738.1	1762.7	1790.4	1827.6	1868.1	1910.0
10°	1565.7	1582.5	1606.4	1633.6	1657.5	1690.2	1720.6	1753.3	1795.6	1845.1	1894.6
12.5°	1507.6	1535.2	1553.4	1585.6	1611.5	1638.5	1670.8	1713.7	1763.1	1815.1	1874.8
15°	1434.7	1449.9	1485.0	1502.6	1539.3	1580.9	1612.8	1655.9	1703.8	1772.5	1839.5
17.5°	1350.8	1370.7	1398.7	1432.2	1474.3	1506.8	1546.5	1590.9	1651.3	1719.5	1803.5
20°	1295.8	1312.6	1346.9	1383.6	1428.4	1462.7	1505.0	1548.1	1610.4	1683.1	1770.9
22.5°	1246.6	1262.8	1299.0	1333.2	1376.6	1418.6	1462.8	1513.0	1572.7	1649.2	1738.9
25°	1170.5	1192.0	1224.0	1259.1	1300.6	1348.5	1396.4	1441.1	1505.0	1585.6	1681.5
27.5°	1102.9	1120.2	1143.3	1183.2	1230.4	1276.7	1324.2	1380.5	1441.8	1527.0	1626.5
30°	1059.5	1075.5	1098.6	1135.3	1179.3	1228.8	1278.3	1332.5	1396.4	1481.1	1582.5
32.5°	1025.0	1037.1	1057.7	1090.6	1130.7	1182.8	1231.6	1287.8	1354.9	1438.3	1537.1
35°	974.1	984.4	992.4	1023.6	1059.5	1107.4	1156.9	1216.8	1281.5	1360.5	1459.5
37.5°	924.1	927.6	939.3	959.7	994.5	1038.6	1084.6	1143.5	1209.8	1290.1	1379.3
40°	893.4	895.0	902.2	921.4	951.7	993.2	1037.9	1096.2	1159.3	1235.1	1323.8
42.5°	863.4	862.4	869.0	882.4	910.8	948.5	992.6	1045.8	1108.8	1178.9	1262.4
45°	816.0	816.0	814.4	825.6	848.7	885.4	922.2	973.3	1026.0	1094.6	1164.9
47.5°	766.5	762.0	763.4	769.2	788.7	818.9	855.9	897.7	944.2	1002.3	1064.0
50°	734.5	728.2	725.8	732.1	749.7	776.1	811.2	847.9	891.8	942.9	995.6
52.5°	699.4	693.0	688.7	693.2	709.5	733.9	765.8	798.1	837.5	879.1	924.7
55°	645.1	637.9	635.5	637.1	649.1	668.3	695.4	725.0	754.5	788.8	820.8
57.5°	591.6	579.8	577.6	576.8	585.1	602.6	625.3	650.9	672.4	693.2	727.2
60°	556.5	542.1	537.3	536.5	542.9	557.3	578.0	603.6	618.8	633.1	662.7
62.5°	518.8	505.1	494.5	495.7	501.4	515.1	533.3	551.9	561.9	577.6	597.5
65°	460.7	443.1	435.1	432.7	435.9	447.1	461.5	473.5	484.6	491.0	510.2
67.5°	402.6	387.9	376.1	373.2	371.7	379.4	391.2	398.4	406.4	412.0	423.3
70°	361.7	348.9	334.5	329.7	328.9	335.3	346.5	347.3	358.5	360.9	372.9
72.5°	321.4	305.5	295.6	290.8	287.4	293.2	300.5	302.6	308.7	313.0	319.2
75°	258.7	246.7	237.1	229.9	227.5	230.7	230.7	234.7	238.7	241.1	248.3
77.5°	203.6	189.9	178.5	174.4	171.5	169.4	171.2	173.6	171.7	175.8	177.4
80°	165.3	150.9	142.1	140.5	135.7	131.7	130.9	133.3	130.1	131.7	136.5
82.5°	127.6	118.3	108.9	107.3	101.2	99.2	98.4	96.9	96.9	96.6	97.6
85°	75.8	70.3	63.9	59.9	57.5	53.5	53.5	51.9	50.3	48.7	49.5
87.5°	36.1	34.5	30.9	28.6	26.9	23.9	23.4	20.9	19.7	18.5	17.3
90°	27.1	25.6	23.5	21.4	19.4	17.3	14.8	12.0	9.2	6.3	3.5
92.5°	46.9	46.0	44.6	43.1	41.7	40.2	37.9	34.6	31.4	28.1	24.9
95°	89.1	88.3	86.5	84.7	82.9	81.1	79.0	76.7	74.4	72.0	69.7
97.5°	140.6	139.6	137.5	135.4	133.3	131.2	129.2	127.3	125.5	123.6	121.8
100°	178.3	177.8	175.4	173.1	170.8	168.5	166.8	165.7	164.7	163.7	162.7
102.5°	217.5	216.8	214.7	212.6	210.4	208.3	207.1	206.6	206.2	205.8	205.4
105°	277.3	276.5	275.5	274.4	273.4	272.4	271.7	271.5	271.2	271.0	270.7
107.5°	342.1	341.3	341.2	341.0	340.9	340.7	340.5	340.2	339.9	339.6	339.2
110°	386.4	386.9	387.1	387.4	387.7	387.9	387.8	387.3	386.7	386.2	385.7



TEST NUMBER: P332707

CATALOG NUMBER: S124DIP-S1195D1205U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	432.3	432.4	432.9	433.4	433.8	434.3	434.5	434.4	434.3	434.2	434.0
115°	504.0	504.2	504.7	505.3	505.8	506.3	506.5	506.5	506.5	506.5	506.5
117.5°	573.3	574.2	574.5	574.9	575.2	575.6	575.7	575.5	575.3	575.1	574.9
120°	620.3	621.6	622.3	623.1	623.9	624.7	624.5	623.5	622.5	621.4	620.4
122.5°	667.2	668.0	668.4	668.8	669.1	669.5	669.5	669.0	668.6	668.2	667.8
125°	736.1	736.6	736.8	737.1	737.4	737.6	737.7	737.7	737.7	737.7	737.7
127.5°	802.3	802.8	803.2	803.6	804.0	804.5	804.3	803.5	802.7	802.0	801.2
130°	848.8	849.3	849.3	849.3	849.3	849.3	848.9	848.1	847.3	846.6	845.8
132.5°	892.4	893.0	893.2	893.4	893.6	893.8	893.6	893.0	892.5	891.9	891.3
135°	958.0	958.5	958.5	958.5	958.5	958.5	957.7	956.2	954.6	953.1	951.5
137.5°	1021.5	1022.1	1021.7	1021.3	1020.9	1020.5	1019.9	1019.2	1018.5	1017.8	1017.0
140°	1062.8	1063.0	1063.0	1063.0	1063.0	1063.0	1062.8	1062.3	1061.8	1061.2	1060.7
142.5°	1102.0	1102.1	1102.3	1102.5	1102.7	1102.9	1102.8	1102.2	1101.7	1101.2	1100.7
145°	1161.5	1161.8	1161.5	1161.3	1161.0	1160.8	1160.1	1159.1	1158.1	1157.0	1156.0
147.5°	1215.3	1215.5	1215.7	1215.9	1216.1	1216.3	1215.8	1214.5	1213.3	1212.1	1210.8
150°	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.4	1247.4	1246.4	1245.3	1244.3
152.5°	1280.2	1279.6	1279.4	1279.2	1279.0	1278.8	1278.4	1277.7	1277.1	1276.5	1275.9
155°	1324.3	1323.3	1323.5	1323.8	1324.1	1324.3	1324.4	1324.4	1324.4	1324.4	1324.4
157.5°	1363.8	1363.0	1363.1	1363.1	1363.2	1363.2	1363.5	1364.0	1364.4	1364.9	1365.3
160°	1388.0	1387.2	1387.4	1387.7	1388.0	1388.2	1388.5	1388.7	1389.0	1389.3	1389.5
162.5°	1409.0	1407.6	1407.9	1408.2	1408.4	1408.7	1409.1	1409.8	1410.5	1411.1	1411.8
165°	1437.5	1436.0	1436.5	1437.0	1437.5	1438.0	1438.7	1439.5	1440.2	1441.0	1441.8
167.5°	1461.7	1460.1	1460.1	1460.0	1460.0	1459.9	1460.5	1461.5	1462.6	1463.7	1464.8
170°	1474.7	1473.2	1472.9	1472.6	1472.4	1472.1	1472.6	1473.9	1475.2	1476.5	1477.8
172.5°	1484.2	1482.5	1482.4	1482.4	1482.3	1482.2	1482.8	1483.8	1484.9	1486.0	1487.1
175°	1494.7	1492.9	1493.2	1493.4	1493.7	1493.9	1494.7	1496.0	1497.3	1498.6	1499.9
177.5°	1500.9	1499.4	1499.4	1499.4	1499.4	1499.4	1499.9	1501.0	1502.0	1503.0	1504.1
180°	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2



TEST NUMBER: P332707

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	1940.1	1946.5	1954.8	1968.9	1974.0	1980.4	1989.3	1988.7	1991.2	2000.8	2021.3
5°	1947.3	1972.1	1996.0	2024.8	2055.1	2075.1	2102.2	2119.0	2135.8	2157.3	2194.0
7.5°	1950.2	1989.5	2033.4	2083.9	2128.7	2180.5	2220.9	2258.9	2293.2	2338.7	2382.5
10°	1945.7	1998.4	2055.1	2119.0	2186.8	2244.3	2296.2	2355.3	2405.6	2460.7	2510.2
12.5°	1937.4	2001.0	2076.8	2148.4	2227.7	2312.7	2377.4	2437.1	2504.0	2567.4	2643.7
15°	1918.6	2005.6	2094.2	2188.4	2294.6	2392.8	2486.3	2563.7	2635.6	2730.6	2830.4
17.5°	1894.6	1988.5	2100.3	2214.3	2325.3	2437.6	2553.2	2669.6	2760.3	2878.3	2956.4
20°	1872.3	1980.9	2095.8	2231.6	2342.5	2482.3	2597.2	2709.8	2834.4	2951.7	3045.1
22.5°	1841.0	1959.8	2081.8	2216.9	2363.0	2502.7	2635.6	2757.7	2882.3	3009.9	3123.1
25°	1801.2	1909.0	2053.5	2206.8	2352.1	2503.8	2656.3	2809.6	2943.7	3078.7	3184.1
27.5°	1733.5	1869.6	2004.2	2162.4	2323.9	2495.5	2658.6	2819.0	2959.6	3070.5	3135.8
30°	1699.0	1817.2	1963.3	2122.2	2297.0	2481.5	2651.5	2808.8	2939.8	3028.4	3054.7
32.5°	1647.9	1769.9	1912.8	2077.5	2262.5	2452.1	2629.2	2777.5	2886.7	2933.2	2901.4
35°	1572.1	1682.3	1826.8	1995.2	2187.6	2389.6	2564.5	2689.8	2745.7	2701.8	2592.4
37.5°	1481.1	1590.3	1735.4	1900.9	2100.0	2305.3	2463.4	2553.6	2535.1	2425.9	2262.9
40°	1417.2	1519.4	1657.5	1836.3	2030.4	2236.4	2375.3	2424.0	2372.9	2216.4	2043.1
42.5°	1346.3	1445.9	1584.7	1757.1	1962.7	2152.7	2273.7	2277.7	2192.1	2005.0	1831.1
45°	1238.3	1333.3	1464.3	1643.9	1834.0	2012.8	2092.6	2053.5	1895.4	1715.0	1540.1
47.5°	1131.8	1214.2	1343.2	1513.8	1694.2	1844.8	1884.4	1814.0	1645.5	1470.4	1308.3
50°	1053.9	1136.9	1258.3	1421.2	1595.2	1725.4	1744.5	1651.1	1485.8	1309.4	1182.4
52.5°	979.2	1061.6	1178.5	1329.2	1488.6	1605.9	1606.6	1498.5	1333.8	1176.5	1058.5
55°	869.5	943.7	1049.1	1184.0	1326.2	1418.0	1395.6	1283.8	1140.9	1004.4	901.4
57.5°	763.8	828.4	925.5	1038.1	1163.3	1239.0	1201.9	1094.3	966.7	850.9	772.9
60°	695.4	756.9	839.9	946.1	1051.5	1110.6	1075.5	978.1	860.7	767.3	699.4
62.5°	629.0	680.9	760.7	852.9	950.6	994.3	963.0	866.9	765.5	681.0	626.0
65°	534.9	577.3	641.1	720.2	791.2	828.8	802.4	713.0	635.5	574.9	530.9
67.5°	447.1	480.2	528.5	591.9	652.3	672.6	648.6	586.4	520.7	472.2	441.2
70°	386.4	417.6	458.3	507.0	559.7	581.2	557.3	507.8	454.3	409.6	379.2
72.5°	333.4	357.5	391.9	433.5	474.7	496.3	480.0	432.4	387.2	354.0	328.1
75°	253.9	274.7	298.6	328.1	360.1	374.5	360.1	327.3	296.2	271.5	253.1
77.5°	184.6	195.8	214.3	236.3	256.3	267.3	254.9	232.7	213.7	196.7	187.6
80°	140.5	148.5	161.3	178.8	192.4	202.8	194.8	176.4	161.3	150.1	146.1
82.5°	102.2	107.6	115.9	129.0	138.1	143.4	139.9	126.6	120.4	110.5	106.5
85°	50.3	53.5	59.1	63.1	71.1	71.9	72.7	67.1	61.5	59.1	55.9
87.5°	18.5	19.7	22.2	24.7	27.7	28.8	28.6	29.0	26.8	26.5	24.3
90°	6.3	9.2	12.0	14.8	17.3	19.4	21.4	23.5	25.6	27.1	28.7
92.5°	28.1	31.4	34.6	37.9	40.2	41.7	43.1	44.6	46.0	46.9	47.9
95°	72.0	74.4	76.7	79.0	81.1	82.9	84.7	86.5	88.3	89.1	89.8
97.5°	123.6	125.5	127.3	129.2	131.2	133.3	135.4	137.5	139.6	140.6	141.5
100°	163.7	164.7	165.7	166.8	168.5	170.8	173.1	175.4	177.8	178.3	178.8
102.5°	205.8	206.2	206.6	207.1	208.3	210.4	212.6	214.7	216.8	217.5	218.2
105°	271.0	271.2	271.5	271.7	272.4	273.4	274.4	275.5	276.5	277.3	278.1
107.5°	339.6	339.9	340.2	340.5	340.7	340.9	341.0	341.2	341.3	342.1	342.8
110°	386.2	386.7	387.3	387.8	387.9	387.7	387.4	387.1	386.9	386.4	385.8





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	434.2	434.3	434.4	434.5	434.3	433.8	433.4	432.9	432.4	432.3	432.2
115°	506.5	506.5	506.5	506.5	506.3	505.8	505.3	504.7	504.2	504.0	503.7
117.5°	575.1	575.3	575.5	575.7	575.6	575.2	574.9	574.5	574.2	573.3	572.4
120°	621.4	622.5	623.5	624.5	624.7	623.9	623.1	622.3	621.6	620.3	619.0
122.5°	668.2	668.6	669.0	669.5	669.5	669.1	668.8	668.4	668.0	667.2	666.3
125°	737.7	737.7	737.7	737.7	737.6	737.4	737.1	736.8	736.6	736.1	735.5
127.5°	802.0	802.7	803.5	804.3	804.5	804.0	803.6	803.2	802.8	802.3	801.8
130°	846.6	847.3	848.1	848.9	849.3	849.3	849.3	849.3	849.3	848.8	848.2
132.5°	891.9	892.5	893.0	893.6	893.8	893.6	893.4	893.2	893.0	892.4	891.9
135°	953.1	954.6	956.2	957.7	958.5	958.5	958.5	958.5	958.5	958.0	957.5
137.5°	1017.8	1018.5	1019.2	1019.9	1020.5	1020.9	1021.3	1021.7	1022.1	1021.5	1020.8
140°	1061.2	1061.8	1062.3	1062.8	1063.0	1063.0	1063.0	1063.0	1063.0	1062.8	1062.5
142.5°	1101.2	1101.7	1102.2	1102.8	1102.9	1102.7	1102.5	1102.3	1102.1	1102.0	1102.0
145°	1157.0	1158.1	1159.1	1160.1	1160.8	1161.0	1161.3	1161.5	1161.8	1161.5	1161.3
147.5°	1212.1	1213.3	1214.5	1215.8	1216.3	1216.1	1215.9	1215.7	1215.5	1215.3	1215.1
150°	1245.3	1246.4	1247.4	1248.4	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9
152.5°	1276.5	1277.1	1277.7	1278.4	1278.8	1279.0	1279.2	1279.4	1279.6	1280.2	1280.8
155°	1324.4	1324.4	1324.4	1324.4	1324.3	1324.1	1323.8	1323.5	1323.3	1324.3	1325.4
157.5°	1364.9	1364.4	1364.0	1363.5	1363.2	1363.2	1363.1	1363.1	1363.0	1363.8	1364.6
160°	1389.3	1389.0	1388.7	1388.5	1388.2	1388.0	1387.7	1387.4	1387.2	1388.0	1388.7
162.5°	1411.1	1410.5	1409.8	1409.1	1408.7	1408.4	1408.2	1407.9	1407.6	1409.0	1410.4
165°	1441.0	1440.2	1439.5	1438.7	1438.0	1437.5	1437.0	1436.5	1436.0	1437.5	1439.1
167.5°	1463.7	1462.6	1461.5	1460.5	1459.9	1460.0	1460.0	1460.1	1460.1	1461.7	1463.2
170°	1476.5	1475.2	1473.9	1472.6	1472.1	1472.4	1472.6	1472.9	1473.2	1474.7	1476.3
172.5°	1486.0	1484.9	1483.8	1482.8	1482.2	1482.3	1482.4	1482.4	1482.5	1484.2	1486.0
175°	1498.6	1497.3	1496.0	1494.7	1493.9	1493.7	1493.4	1493.2	1492.9	1494.7	1496.5
177.5°	1503.0	1502.0	1501.0	1499.9	1499.4	1499.4	1499.4	1499.4	1499.4	1500.9	1502.3
180°	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	2031.5	2032.8	2038.5	2043.0	2044.3	2050.6	2051.3
5°	2210.0	2223.6	2249.9	2252.3	2256.3	2277.1	2261.1
7.5°	2419.2	2453.7	2476.7	2497.0	2504.3	2513.4	2511.5
10°	2553.3	2604.4	2630.0	2670.7	2672.3	2682.7	2676.3
12.5°	2688.1	2747.5	2794.1	2801.6	2835.8	2841.1	2850.0
15°	2879.1	2942.1	3006.8	3030.0	3077.1	3088.3	3105.8
17.5°	3058.6	3123.1	3168.4	3228.3	3247.6	3273.5	3255.9
20°	3156.9	3227.2	3284.7	3331.8	3351.7	3366.1	3364.5
22.5°	3216.3	3287.2	3333.8	3369.5	3388.1	3394.2	3393.9
25°	3253.5	3294.2	3308.6	3322.2	3301.4	3294.2	3297.4
27.5°	3150.1	3139.5	3102.0	3052.8	3001.7	2961.1	2939.1
30°	3007.6	2945.3	2888.7	2789.6	2738.6	2708.2	2681.1
32.5°	2805.8	2707.1	2598.0	2507.3	2449.2	2404.2	2397.5
35°	2459.9	2311.4	2178.1	2067.1	2009.6	1960.9	1949.7
37.5°	2091.4	1937.1	1817.0	1719.3	1657.5	1623.2	1591.1
40°	1846.7	1714.2	1596.0	1513.0	1465.9	1441.1	1421.2
42.5°	1658.3	1537.3	1419.7	1356.5	1313.9	1298.7	1287.0
45°	1398.0	1285.4	1204.0	1156.1	1131.3	1105.8	1093.8
47.5°	1189.6	1098.0	1044.3	1003.6	977.1	961.9	954.3
50°	1071.5	996.4	948.5	917.4	893.4	881.4	875.1
52.5°	966.7	905.1	864.8	840.1	823.8	815.0	812.5
55°	832.7	785.6	760.1	738.5	726.6	718.6	715.4
57.5°	723.8	687.6	666.8	649.1	644.5	637.8	635.5
60°	652.3	624.4	606.8	594.8	590.8	582.8	584.4
62.5°	589.1	566.2	551.2	544.4	539.1	532.4	534.6
65°	498.2	481.4	473.5	467.1	460.7	456.7	459.9
67.5°	418.0	406.6	395.7	392.0	388.8	388.2	384.8
70°	365.7	356.1	346.5	344.1	344.1	340.9	340.1
72.5°	315.2	308.2	301.8	300.0	297.5	298.8	295.4
75°	243.5	237.9	235.5	233.1	232.3	232.3	229.9
77.5°	180.0	175.8	172.0	172.0	169.1	168.0	167.7
80°	136.5	134.9	131.7	131.7	130.1	130.9	129.3
82.5°	102.7	100.4	99.8	98.5	96.3	96.4	94.9
85°	55.1	52.7	51.9	49.5	47.9	49.5	47.9
87.5°	25.2	24.9	24.4	23.3	22.7	22.8	21.0
90°	30.2	31.8	32.8	33.3	33.8	34.3	34.9
92.5°	48.8	49.7	50.3	50.7	51.0	51.3	51.6
95°	90.6	91.4	91.8	91.8	91.8	91.8	91.8
97.5°	142.4	143.4	143.8	143.8	143.8	143.8	143.8
100°	179.3	179.8	180.1	180.1	180.1	180.1	180.1
102.5°	219.0	219.7	220.1	220.4	220.6	220.8	221.0
105°	278.8	279.6	280.4	281.2	281.9	282.7	283.5
107.5°	343.5	344.2	344.6	344.5	344.5	344.4	344.4
110°	385.3	384.8	384.9	385.7	386.5	387.3	388.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	432.1	432.0	432.0	432.2	432.3	432.5	432.7
115°	503.4	503.2	502.9	502.7	502.4	502.2	501.9
117.5°	571.5	570.6	570.0	569.4	568.9	568.4	567.9
120°	617.7	616.4	616.0	616.5	617.0	617.6	618.1
122.5°	665.4	664.5	663.6	662.7	661.8	660.8	659.9
125°	735.0	734.5	734.0	733.5	733.0	732.4	731.9
127.5°	801.3	800.7	800.3	799.9	799.4	799.0	798.6
130°	847.7	847.2	846.4	845.4	844.4	843.3	842.3
132.5°	891.4	890.9	890.4	890.0	889.6	889.2	888.8
135°	956.9	956.4	955.8	955.0	954.2	953.4	952.7
137.5°	1020.1	1019.5	1019.2	1019.4	1019.5	1019.7	1019.8
140°	1062.3	1062.0	1061.8	1061.5	1061.2	1061.0	1060.7
142.5°	1101.9	1101.9	1101.8	1101.8	1101.7	1101.7	1101.6
145°	1161.0	1160.8	1160.2	1159.5	1158.7	1157.9	1157.2
147.5°	1214.9	1214.6	1214.4	1214.2	1213.9	1213.6	1213.4
150°	1248.9	1248.9	1248.8	1248.5	1248.3	1248.0	1247.8
152.5°	1281.5	1282.1	1282.1	1281.4	1280.7	1280.0	1279.4
155°	1326.4	1327.4	1327.4	1326.4	1325.4	1324.3	1323.3
157.5°	1365.3	1366.1	1366.1	1365.2	1364.3	1363.4	1362.6
160°	1389.5	1390.3	1390.0	1388.7	1387.4	1386.2	1384.9
162.5°	1411.8	1413.2	1413.3	1412.0	1410.7	1409.4	1408.1
165°	1440.6	1442.2	1442.4	1441.4	1440.4	1439.3	1438.3
167.5°	1464.8	1466.3	1466.3	1464.7	1463.1	1461.5	1459.9
170°	1477.8	1479.4	1479.2	1477.4	1475.6	1473.8	1472.0
172.5°	1487.7	1489.5	1489.5	1487.6	1485.8	1484.0	1482.2
175°	1498.3	1500.1	1500.1	1498.3	1496.5	1494.7	1492.9
177.5°	1503.8	1505.2	1505.1	1503.4	1501.8	1500.1	1498.5
180°	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2

(END OF REPORT)