

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: P332848-830

Luminaire Tested: **S124DIW-S1195D1050U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332848-830
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: S124DIW-S1195D1050U830-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1050 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8441.1 lumens
Efficiency: N/A
Efficacy: 125.2 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

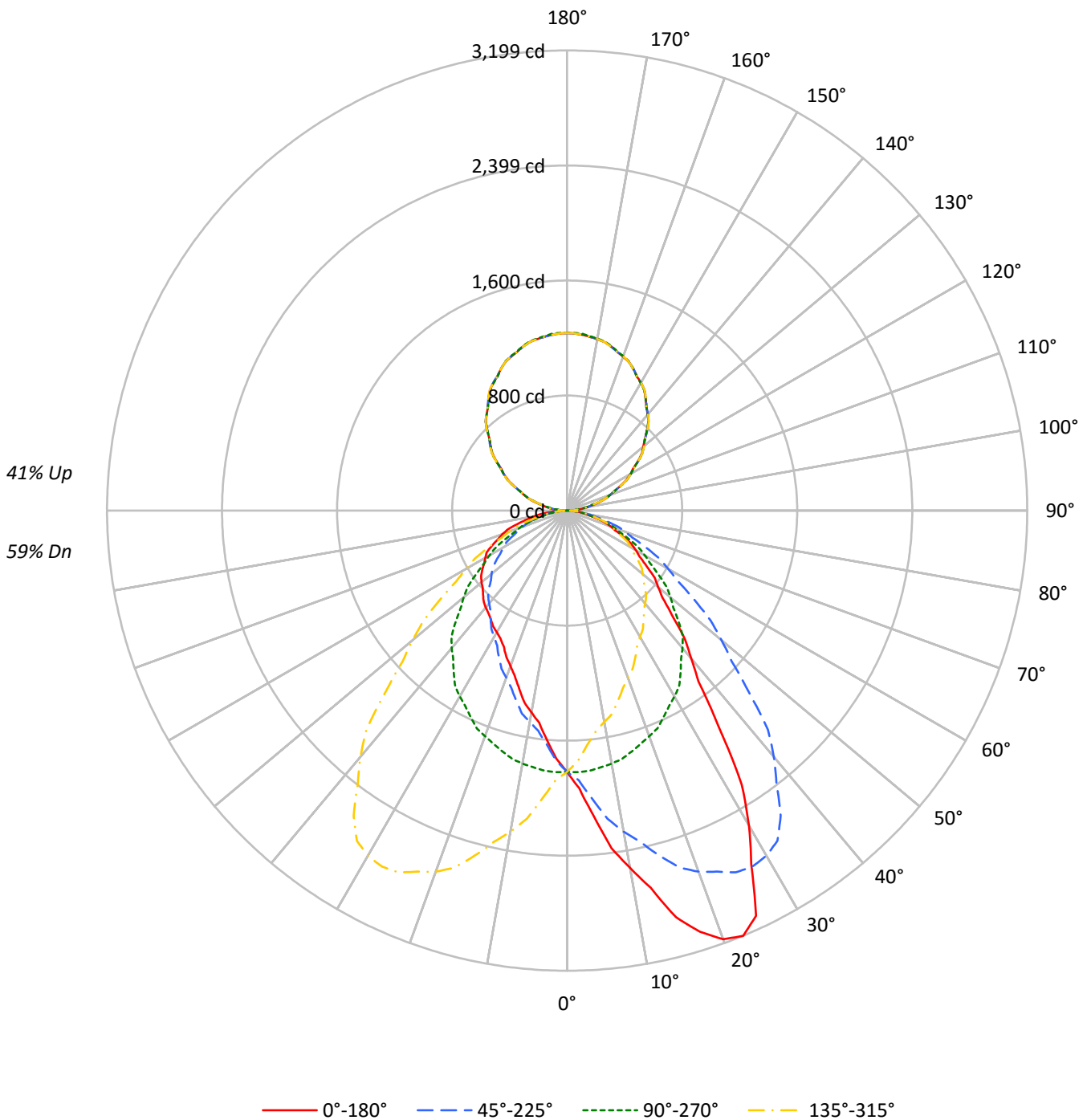
Input Watts (W): 67.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	102	102	102	89	89	89	76	76	76	65	65	65	59
1	100	96	92	89	93	90	86	83	78	76	73	67	66	64	58	56	55	51
2	91	84	78	73	85	79	73	69	69	65	61	60	57	54	51	49	47	43
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	45	43	40	37
4	77	66	58	52	71	62	55	49	54	49	44	47	43	40	41	38	35	32
5	70	59	51	45	66	55	48	43	49	43	38	43	38	34	37	33	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	30	34	30	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	31	27	31	27	24	22
8	56	44	36	30	52	41	34	29	37	31	27	32	28	24	28	25	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	18
10	49	37	29	25	46	35	28	24	31	25	22	28	23	20	24	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14666	14666	14666	14666
5°	17271	14704	12977	14704
10°	20678	14638	11684	14638
15°	24466	14491	10730	14491
20°	27244	14339	9879	14339
25°	27684	14118	9291	14118
30°	23557	13904	9106	13904
35°	18111	13557	9107	13557
40°	14116	13149	9278	13149
45°	11771	12536	9434	12536
50°	10359	11786	9755	11786
55°	9491	10888	10148	10888
60°	8893	10085	10619	10085
65°	8281	9186	11012	9186
70°	7567	8297	11261	8297
75°	6759	7299	11126	7299
80°	5667	5983	10776	5983
85°	4177	4326	10319	4326



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.0	2.1
10°-20°	545.5	6.5
20°-30°	865.0	10.2
30°-40°	962.7	11.4
40°-50°	876.3	10.4
50°-60°	716.1	8.5
60°-70°	511.2	6.1
70°-80°	281.5	3.3
80°-90°	80.5	1.0
90°-100°	81.4	1.0
100°-110°	241.2	2.9
110°-120°	409.4	4.9
120°-130°	539.9	6.4
130°-140°	606.3	7.2
140°-150°	595.8	7.1
150°-160°	501.1	5.9
160°-170°	333.4	3.9
170°-180°	116.7	1.4
0°-30°	1587.5	18.8
0°-40°	2550.2	30.2
0°-60°	4142.6	49.1
0°-90°	5015.8	59.4
90°-120°	732.1	8.7
90°-150°	2474.1	29.3
90°-180°	3425.0	40.6
0°-180°	8441.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1817	1817	1817	1817	1817	
5°	2131	1814	1601	1814	2131	217
15°	2927	1734	1284	1734	2927	827
25°	3108	1585	1043	1585	3108	1370
35°	1838	1376	924	1376	1838	1166
45°	1031	1098	826	1098	1031	812
55°	674	774	721	774	674	609
65°	434	481	576	481	434	429
75°	217	234	357	234	217	230
85°	45	47	111	47	45	56
90°	29	3	29	3	29	16
95°	75	57	75	57	75	79
105°	233	222	233	222	233	246
115°	412	416	412	416	412	408
125°	602	606	602	606	602	537
135°	783	782	783	782	783	605
145°	951	950	951	950	951	595
155°	1088	1088	1088	1088	1088	501
165°	1182	1185	1182	1185	1182	333
175°	1227	1233	1227	1233	1227	117
180°	1235	1235	1235	1235	1235	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1933.4	1932.8	1926.8	1925.6	1921.4	1916.0	1914.8	1905.2	1885.8	1876.8	1874.4
5°	2131.2	2146.3	2126.7	2122.9	2120.6	2095.8	2083.0	2067.9	2033.3	2013.1	1997.2
7.5°	2367.2	2369.0	2360.4	2353.5	2334.4	2312.7	2280.2	2245.6	2204.3	2161.4	2129.1
10°	2522.5	2528.6	2518.8	2517.2	2478.9	2454.8	2406.6	2366.0	2319.3	2267.4	2220.0
12.5°	2686.2	2677.9	2672.9	2640.6	2633.6	2589.6	2533.6	2491.8	2419.9	2360.1	2297.1
15°	2927.3	2910.9	2900.3	2855.9	2834.0	2773.1	2713.7	2667.8	2573.7	2484.2	2416.4
17.5°	3068.8	3085.4	3061.0	3042.8	2986.4	2943.7	2882.9	2786.5	2712.9	2601.7	2516.2
20°	3171.2	3172.7	3159.1	3140.4	3096.0	3041.8	2975.5	2870.1	2782.1	2671.5	2554.1
22.5°	3198.9	3199.2	3193.4	3175.9	3142.2	3098.3	3031.5	2943.7	2837.0	2716.7	2599.2
25°	3107.9	3104.9	3111.7	3131.3	3118.5	3104.9	3066.6	3001.1	2901.8	2774.6	2648.2
27.5°	2770.2	2791.0	2829.2	2877.4	2923.8	2959.1	2969.1	2955.6	2894.1	2789.5	2657.0
30°	2527.1	2552.6	2581.2	2629.3	2722.7	2776.1	2834.8	2879.2	2854.4	2770.9	2647.4
32.5°	2259.7	2266.1	2308.5	2363.2	2448.7	2551.6	2644.6	2734.7	2764.7	2720.8	2617.9
35°	1837.7	1848.2	1894.1	1948.3	2053.0	2178.6	2318.6	2443.4	2546.6	2587.9	2535.3
37.5°	1499.7	1529.9	1562.3	1620.5	1712.6	1825.8	1971.2	2132.9	2286.5	2389.4	2406.9
40°	1339.5	1358.3	1381.7	1426.1	1504.3	1615.7	1740.6	1925.7	2089.1	2236.6	2284.7
42.5°	1213.1	1224.1	1238.4	1278.6	1338.1	1449.0	1563.0	1725.9	1889.8	2066.1	2146.8
45°	1031.0	1042.3	1066.3	1089.7	1134.8	1211.5	1317.7	1451.6	1616.5	1786.5	1935.5
47.5°	899.5	906.6	921.0	945.9	984.3	1034.9	1121.2	1233.1	1385.9	1551.0	1709.8
50°	824.8	830.8	842.1	864.7	894.0	939.1	1009.9	1114.5	1234.2	1400.4	1556.2
52.5°	765.8	768.2	776.5	791.8	815.1	853.1	911.2	997.7	1108.9	1257.2	1412.4
55°	674.3	677.3	684.9	696.1	716.4	740.5	784.9	849.6	946.7	1075.3	1210.0
57.5°	599.0	601.2	607.5	611.8	628.5	648.1	682.2	728.5	802.0	911.2	1031.4
60°	550.8	549.3	556.9	560.6	571.9	588.5	614.8	659.2	723.2	811.2	921.9
62.5°	503.9	501.8	508.1	513.1	519.5	533.7	555.3	590.0	641.9	721.5	817.1
65°	433.5	430.5	434.2	440.3	446.3	453.7	469.6	500.4	541.9	599.0	672.0
67.5°	362.7	365.9	366.5	369.5	373.0	383.2	394.0	415.8	445.1	490.8	552.7
70°	320.6	321.3	324.3	324.3	326.6	335.6	344.7	357.4	386.1	428.2	478.6
72.5°	278.4	281.6	280.4	282.8	284.5	290.5	297.1	309.2	333.7	365.0	407.6
75°	216.7	219.0	219.0	219.7	222.0	224.2	229.5	238.6	255.9	279.2	308.5
77.5°	158.1	158.3	159.4	162.1	162.1	165.7	169.7	176.8	185.4	201.4	219.3
80°	121.9	123.4	122.6	124.1	124.1	127.1	128.7	137.7	141.5	152.0	166.3
82.5°	89.4	90.9	90.8	92.8	94.1	94.6	96.8	100.4	104.2	113.5	119.3
85°	45.1	46.7	45.1	46.7	48.9	49.7	51.9	52.7	55.7	58.0	63.2
87.5°	18.9	20.7	20.6	21.1	22.2	22.7	23.0	22.1	24.3	24.7	26.8
90°	28.7	28.2	27.8	27.3	27.0	26.1	24.8	23.6	22.2	21.0	19.3
92.5°	42.4	42.1	41.8	41.7	41.4	40.9	40.1	39.3	38.5	37.8	36.7
95°	75.4	75.4	75.4	75.4	75.4	75.1	74.5	73.8	73.2	72.6	71.1
97.5°	118.2	118.2	118.2	118.2	118.2	117.8	117.1	116.3	115.6	114.8	113.0
100°	148.0	148.0	148.0	148.0	148.0	147.8	147.3	146.9	146.5	146.1	144.2
102.5°	181.6	181.4	181.3	181.1	181.0	180.6	179.9	179.4	178.8	178.1	176.4
105°	233.0	232.3	231.7	231.1	230.5	229.8	229.1	228.6	227.9	227.2	226.4
107.5°	283.0	283.0	283.1	283.1	283.1	283.0	282.3	281.7	281.2	280.5	280.4
110°	319.0	318.3	317.6	317.0	316.4	316.2	316.7	317.1	317.5	317.9	318.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	355.6	355.4	355.3	355.2	355.1	355.1	355.2	355.2	355.3	355.4	355.8
115°	412.5	412.7	412.9	413.1	413.3	413.6	413.8	414.0	414.2	414.4	414.8
117.5°	466.7	467.1	467.6	468.0	468.4	469.0	469.7	470.4	471.2	471.8	472.2
120°	507.9	507.6	507.1	506.7	506.2	506.6	507.7	508.7	509.8	510.9	511.5
122.5°	542.3	543.1	543.8	544.6	545.4	546.1	546.9	547.6	548.3	549.0	549.3
125°	601.5	602.0	602.4	602.9	603.2	603.7	604.1	604.5	604.9	605.4	605.6
127.5°	656.4	656.7	657.0	657.3	657.7	658.1	658.6	658.9	659.4	659.8	660.2
130°	692.3	693.1	694.0	694.8	695.7	696.3	696.7	697.1	697.6	698.0	698.0
132.5°	730.5	730.8	731.1	731.5	731.8	732.2	732.6	733.0	733.5	733.9	734.1
135°	783.0	783.6	784.2	784.9	785.5	786.1	786.5	786.9	787.3	787.8	787.8
137.5°	838.1	838.0	837.9	837.7	837.6	837.8	838.4	839.0	839.5	840.1	839.7
140°	871.8	871.9	872.2	872.4	872.6	872.8	873.1	873.3	873.5	873.6	873.6
142.5°	905.4	905.4	905.5	905.5	905.5	905.6	905.6	905.7	905.7	905.8	906.0
145°	951.0	951.7	952.3	952.9	953.6	953.9	954.2	954.4	954.6	954.8	954.6
147.5°	997.2	997.4	997.7	997.9	998.1	998.2	998.4	998.6	998.8	998.9	999.1
150°	1025.5	1025.7	1026.0	1026.1	1026.3	1026.4	1026.4	1026.4	1026.4	1026.4	1026.4
152.5°	1051.5	1052.0	1052.5	1053.1	1053.7	1053.7	1053.2	1052.6	1052.2	1051.7	1051.5
155°	1087.6	1088.4	1089.3	1090.1	1091.0	1091.0	1090.1	1089.3	1088.4	1087.6	1087.8
157.5°	1119.8	1120.6	1121.2	1122.0	1122.8	1122.8	1122.1	1121.5	1120.9	1120.2	1120.2
160°	1138.1	1139.3	1140.3	1141.3	1142.4	1142.6	1142.0	1141.3	1140.7	1140.1	1140.3
162.5°	1157.3	1158.3	1159.4	1160.5	1161.5	1161.5	1160.3	1159.1	1158.0	1156.9	1157.1
165°	1182.0	1182.9	1183.7	1184.6	1185.4	1185.2	1184.0	1182.7	1181.5	1180.2	1180.6
167.5°	1199.9	1201.2	1202.5	1203.8	1205.1	1205.1	1203.8	1202.6	1201.3	1200.0	1200.0
170°	1209.8	1211.3	1212.8	1214.3	1215.7	1215.8	1214.6	1213.2	1212.0	1210.7	1210.5
172.5°	1218.1	1219.7	1221.2	1222.7	1224.1	1224.2	1222.7	1221.3	1219.8	1218.3	1218.3
175°	1227.0	1228.4	1229.9	1231.4	1232.9	1232.9	1231.4	1229.9	1228.4	1227.0	1227.2
177.5°	1231.5	1232.9	1234.3	1235.6	1237.0	1237.1	1235.9	1234.7	1233.5	1232.3	1232.3
180°	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1875.0	1866.6	1860.6	1855.8	1842.5	1834.7	1828.6	1820.2	1810.6	1800.4	1787.7
5°	1981.4	1955.9	1937.0	1908.5	1881.3	1858.8	1835.4	1814.4	1788.8	1761.0	1740.6
7.5°	2093.3	2055.2	2006.4	1964.2	1916.6	1875.2	1838.1	1800.3	1760.8	1722.6	1687.5
10°	2164.3	2115.3	2061.2	1997.2	1937.0	1883.6	1833.9	1785.7	1739.1	1692.4	1652.6
12.5°	2240.8	2179.8	2099.7	2025.0	1957.5	1886.0	1826.1	1767.1	1710.8	1661.8	1615.2
15°	2343.4	2255.3	2162.8	2062.7	1973.9	1890.4	1808.4	1733.8	1670.7	1605.9	1560.8
17.5°	2406.5	2297.5	2191.7	2087.1	1979.6	1874.2	1785.7	1699.9	1620.7	1556.4	1499.5
20°	2448.0	2339.7	2207.9	2103.4	1975.4	1867.1	1764.7	1669.1	1586.4	1517.9	1459.2
22.5°	2484.2	2358.9	2227.2	2089.5	1962.2	1847.2	1735.2	1639.0	1554.4	1482.3	1426.1
25°	2503.7	2359.9	2217.0	2080.0	1935.5	1799.3	1697.7	1584.9	1494.5	1418.5	1358.3
27.5°	2505.8	2352.1	2190.4	2038.2	1889.0	1762.2	1633.9	1533.0	1439.3	1359.0	1301.2
30°	2499.2	2338.9	2165.0	2000.3	1850.5	1712.8	1601.4	1491.6	1396.0	1316.2	1255.9
32.5°	2478.1	2311.2	2132.5	1958.1	1802.9	1668.2	1553.2	1448.8	1355.7	1277.1	1213.8
35°	2417.2	2252.3	2061.9	1880.6	1721.8	1585.6	1481.8	1375.6	1282.3	1207.9	1146.9
37.5°	2321.9	2172.8	1979.3	1791.7	1635.7	1498.9	1396.0	1300.0	1216.0	1140.3	1077.8
40°	2238.8	2107.9	1913.7	1730.8	1562.3	1432.1	1335.8	1247.7	1164.1	1092.7	1033.2
42.5°	2143.1	2029.0	1849.9	1656.1	1493.6	1362.8	1268.9	1189.9	1111.2	1045.1	985.7
45°	1972.4	1897.1	1728.6	1549.4	1380.2	1256.7	1167.2	1098.0	1031.7	967.0	917.4
47.5°	1776.1	1738.8	1596.9	1426.8	1266.0	1144.4	1066.8	1002.9	944.7	889.9	846.1
50°	1644.3	1626.3	1503.5	1339.5	1186.0	1071.6	993.3	938.4	888.7	840.6	799.2
52.5°	1514.3	1513.6	1403.1	1252.8	1110.8	1000.6	922.9	871.6	828.6	789.4	752.2
55°	1315.4	1336.5	1250.0	1116.0	988.8	889.5	819.5	773.6	743.5	711.1	683.3
57.5°	1132.8	1167.8	1096.5	978.5	872.3	780.8	719.9	685.4	653.4	633.8	613.5
60°	1013.7	1046.8	991.1	891.7	791.6	713.4	655.4	624.6	596.7	583.2	568.9
62.5°	907.7	937.2	896.0	803.9	717.0	641.8	592.9	563.2	544.4	529.6	520.2
65°	756.3	781.2	745.7	678.8	604.3	544.1	504.2	480.9	462.8	456.8	446.3
67.5°	611.3	634.0	614.8	557.9	498.1	452.6	421.4	399.0	388.3	383.0	375.5
70°	525.3	547.8	527.5	477.9	432.0	393.6	364.2	351.5	340.2	337.9	327.3
72.5°	452.4	467.8	447.4	408.6	369.4	337.0	314.2	300.9	295.0	291.0	285.2
75°	339.4	353.0	339.4	309.2	281.4	258.9	239.3	234.0	227.2	225.0	221.2
77.5°	240.3	251.9	241.6	222.7	202.0	184.5	174.0	167.2	165.7	161.8	163.6
80°	183.6	191.1	181.3	168.5	152.0	140.0	132.4	128.7	124.1	122.6	125.6
82.5°	131.9	135.2	130.2	121.6	109.2	101.4	96.3	92.0	91.0	91.3	91.3
85°	68.5	67.8	67.0	59.5	55.7	50.4	47.4	46.7	45.9	47.4	48.9
87.5°	26.4	26.7	25.7	22.9	20.6	18.4	17.2	16.2	17.2	18.4	19.4
90°	17.6	15.9	14.2	12.2	9.9	7.5	5.2	2.8	5.2	7.5	9.9
92.5°	35.4	34.2	33.1	31.1	28.5	25.8	23.1	20.5	23.1	25.8	28.5
95°	69.6	68.1	66.6	64.9	63.1	61.1	59.2	57.3	59.2	61.1	63.1
97.5°	111.3	109.5	107.8	106.2	104.6	103.1	101.6	100.1	101.6	103.1	104.6
100°	142.2	140.3	138.5	137.0	136.2	135.3	134.5	133.7	134.5	135.3	136.2
102.5°	174.7	173.0	171.2	170.1	169.8	169.5	169.2	168.8	169.2	169.5	169.8
105°	225.6	224.7	223.9	223.3	223.1	222.9	222.7	222.4	222.7	222.9	223.1
107.5°	280.3	280.1	280.0	279.8	279.6	279.3	279.1	278.8	279.1	279.3	279.6
110°	318.4	318.6	318.8	318.7	318.3	317.8	317.4	317.0	317.4	317.8	318.3



TEST NUMBER: P332848-830

CATALOG NUMBER: S124DIW-S1195D1050U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	356.2	356.6	356.9	357.0	356.9	356.9	356.8	356.8	356.8	356.9	356.9
115°	415.3	415.7	416.1	416.3	416.3	416.3	416.3	416.3	416.3	416.3	416.3
117.5°	472.5	472.8	473.1	473.2	473.0	472.8	472.6	472.5	472.6	472.8	473.0
120°	512.1	512.7	513.4	513.3	512.5	511.6	510.8	509.9	510.8	511.6	512.5
122.5°	549.6	549.9	550.3	550.2	549.9	549.5	549.2	548.8	549.2	549.5	549.9
125°	605.8	606.0	606.2	606.3	606.3	606.3	606.3	606.3	606.3	606.3	606.3
127.5°	660.4	660.8	661.2	661.0	660.3	659.7	659.1	658.5	659.1	659.7	660.3
130°	698.0	698.0	698.0	697.7	697.0	696.4	695.8	695.1	695.8	696.4	697.0
132.5°	734.2	734.4	734.5	734.4	734.0	733.5	733.0	732.5	733.0	733.5	734.0
135°	787.8	787.8	787.8	787.1	785.8	784.6	783.3	782.0	783.3	784.6	785.8
137.5°	839.4	839.1	838.7	838.2	837.6	837.1	836.4	835.8	836.4	837.1	837.6
140°	873.6	873.6	873.6	873.5	873.1	872.6	872.2	871.8	872.2	872.6	873.1
142.5°	906.1	906.3	906.4	906.3	905.9	905.5	905.0	904.7	905.0	905.5	905.9
145°	954.4	954.2	953.9	953.5	952.6	951.8	950.9	950.1	950.9	951.8	952.6
147.5°	999.3	999.5	999.7	999.2	998.2	997.2	996.2	995.1	996.2	997.2	998.2
150°	1026.4	1026.4	1026.4	1026.1	1025.2	1024.4	1023.5	1022.7	1023.5	1024.4	1025.2
152.5°	1051.3	1051.1	1050.9	1050.7	1050.1	1049.6	1049.1	1048.6	1049.1	1049.6	1050.1
155°	1088.0	1088.2	1088.4	1088.5	1088.5	1088.5	1088.5	1088.5	1088.5	1088.5	1088.5
157.5°	1120.3	1120.3	1120.4	1120.6	1121.0	1121.3	1121.7	1122.1	1121.7	1121.3	1121.0
160°	1140.5	1140.7	1140.9	1141.1	1141.3	1141.5	1141.8	1142.0	1141.8	1141.5	1141.3
162.5°	1157.3	1157.5	1157.7	1158.1	1158.7	1159.2	1159.8	1160.3	1159.8	1159.2	1158.7
165°	1181.0	1181.5	1181.9	1182.4	1183.1	1183.6	1184.3	1185.0	1184.3	1183.6	1183.1
167.5°	1200.0	1200.0	1199.9	1200.3	1201.2	1202.1	1203.0	1203.8	1203.0	1202.1	1201.2
170°	1210.3	1210.1	1209.8	1210.3	1211.4	1212.4	1213.5	1214.6	1213.5	1212.4	1211.4
172.5°	1218.3	1218.2	1218.2	1218.6	1219.6	1220.4	1221.3	1222.2	1221.3	1220.4	1219.6
175°	1227.4	1227.6	1227.9	1228.4	1229.5	1230.6	1231.6	1232.7	1231.6	1230.6	1229.5
177.5°	1232.3	1232.3	1232.3	1232.8	1233.6	1234.4	1235.3	1236.1	1235.3	1234.4	1233.6
180°	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6



TEST NUMBER: P332848-830

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1781.7	1776.3	1768.5	1757.7	1748.6	1739.0	1736.5	1733.0	1740.1	1734.2	1732.3
5°	1723.3	1707.5	1687.2	1663.9	1650.3	1630.8	1627.0	1619.5	1611.9	1611.2	1603.6
7.5°	1661.4	1638.2	1611.7	1587.8	1565.8	1544.5	1530.5	1527.5	1516.4	1509.9	1502.3
10°	1621.7	1593.1	1562.3	1539.7	1514.1	1491.6	1475.7	1466.7	1459.2	1450.9	1443.4
12.5°	1574.8	1544.4	1518.9	1494.5	1464.1	1447.0	1421.0	1405.3	1403.8	1403.9	1384.4
15°	1520.1	1490.1	1450.9	1416.3	1399.7	1366.6	1352.3	1334.3	1323.0	1311.6	1302.7
17.5°	1457.6	1420.2	1389.6	1349.9	1318.3	1291.9	1273.2	1262.3	1245.3	1229.4	1217.8
20°	1418.5	1378.7	1346.3	1304.1	1269.5	1237.2	1221.3	1206.4	1193.5	1180.0	1167.2
22.5°	1378.8	1337.1	1297.5	1256.6	1224.4	1190.2	1175.0	1154.5	1142.4	1134.8	1122.0
25°	1316.2	1271.0	1225.9	1186.8	1153.7	1123.5	1103.2	1087.4	1073.8	1067.8	1059.6
27.5°	1248.1	1203.3	1159.7	1115.2	1077.6	1055.8	1039.5	1027.7	1019.8	1011.8	1008.1
30°	1204.9	1158.2	1111.5	1070.1	1035.5	1013.7	998.6	990.3	984.3	980.5	976.8
32.5°	1160.8	1114.8	1065.7	1027.9	996.9	977.5	966.1	957.8	954.8	953.5	952.2
35°	1090.4	1043.8	998.6	964.8	935.4	927.8	918.1	913.6	912.1	917.4	919.6
37.5°	1022.3	978.9	937.4	904.6	885.3	874.3	871.0	871.1	876.6	881.2	886.6
40°	978.3	936.1	897.0	868.5	850.4	843.6	842.1	845.8	851.9	857.1	863.2
42.5°	935.6	894.0	858.5	831.7	819.1	812.8	813.8	817.6	826.0	832.5	841.5
45°	869.2	834.5	799.9	778.2	767.6	769.1	769.1	775.9	784.1	793.9	803.7
47.5°	806.7	771.8	743.4	725.0	719.5	718.2	722.5	731.3	743.2	755.3	768.9
50°	764.6	731.5	706.6	690.0	684.1	686.4	692.3	700.6	714.9	730.0	744.2
52.5°	721.8	691.7	668.7	653.4	649.1	653.2	659.2	672.3	684.9	701.1	718.4
55°	655.4	629.9	611.8	600.5	599.0	601.2	608.0	622.4	640.4	660.7	677.3
57.5°	589.4	568.0	551.5	543.7	544.4	546.5	557.6	574.7	593.9	615.6	637.0
60°	544.8	525.3	511.7	505.7	506.4	511.0	524.5	540.4	564.4	585.5	608.0
62.5°	502.7	485.5	472.6	467.2	466.1	476.1	489.0	505.4	529.5	553.0	577.3
65°	435.0	421.4	410.9	407.8	410.1	417.6	434.2	456.0	476.4	501.1	526.8
67.5°	368.7	357.6	350.3	351.8	354.5	365.6	379.5	398.2	421.3	447.0	472.3
70°	326.6	316.0	310.0	310.8	315.3	328.9	340.9	359.7	384.6	410.9	432.0
72.5°	283.2	276.4	270.9	274.1	278.6	287.9	302.9	321.8	343.7	368.2	390.4
75°	217.4	217.4	214.4	216.7	223.5	232.5	243.8	263.3	285.2	304.8	322.8
77.5°	161.4	159.7	161.6	164.4	168.2	179.0	191.9	205.9	222.3	241.9	256.7
80°	123.4	124.1	127.9	132.4	133.9	142.2	155.8	168.5	181.3	197.9	212.3
82.5°	92.7	93.5	95.4	101.1	102.6	111.5	120.3	133.1	144.7	155.8	167.7
85°	50.4	50.4	54.2	56.5	60.2	66.3	71.4	79.0	89.5	97.1	108.4
87.5°	21.7	22.1	24.9	26.4	28.6	31.9	33.4	40.2	42.9	46.2	51.7
90°	12.2	14.2	15.9	17.6	19.3	21.0	22.2	23.6	24.8	26.1	27.0
92.5°	31.1	33.1	34.2	35.4	36.7	37.8	38.5	39.3	40.1	40.9	41.4
95°	64.9	66.6	68.1	69.6	71.1	72.6	73.2	73.8	74.5	75.1	75.4
97.5°	106.2	107.8	109.5	111.3	113.0	114.8	115.6	116.3	117.1	117.8	118.2
100°	137.0	138.5	140.3	142.2	144.2	146.1	146.5	146.9	147.3	147.8	148.0
102.5°	170.1	171.2	173.0	174.7	176.4	178.1	178.8	179.4	179.9	180.6	181.0
105°	223.3	223.9	224.7	225.6	226.4	227.2	227.9	228.6	229.1	229.8	230.5
107.5°	279.8	280.0	280.1	280.3	280.4	280.5	281.2	281.7	282.3	283.0	283.1
110°	318.7	318.8	318.6	318.4	318.2	317.9	317.5	317.1	316.7	316.2	316.4



TEST NUMBER: P332848-830

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	357.0	356.9	356.6	356.2	355.8	355.4	355.3	355.2	355.2	355.1	355.1
115°	416.3	416.1	415.7	415.3	414.8	414.4	414.2	414.0	413.8	413.6	413.3
117.5°	473.2	473.1	472.8	472.5	472.2	471.8	471.2	470.4	469.7	469.0	468.4
120°	513.3	513.4	512.7	512.1	511.5	510.9	509.8	508.7	507.7	506.6	506.2
122.5°	550.2	550.3	549.9	549.6	549.3	549.0	548.3	547.6	546.9	546.1	545.4
125°	606.3	606.2	606.0	605.8	605.6	605.4	604.9	604.5	604.1	603.7	603.2
127.5°	661.0	661.2	660.8	660.4	660.2	659.8	659.4	658.9	658.6	658.1	657.7
130°	697.7	698.0	698.0	698.0	698.0	698.0	697.6	697.1	696.7	696.3	695.7
132.5°	734.4	734.5	734.4	734.2	734.1	733.9	733.5	733.0	732.6	732.2	731.8
135°	787.1	787.8	787.8	787.8	787.8	787.8	787.3	786.9	786.5	786.1	785.5
137.5°	838.2	838.7	839.1	839.4	839.7	840.1	839.5	839.0	838.4	837.8	837.6
140°	873.5	873.6	873.6	873.6	873.6	873.6	873.5	873.3	873.1	872.8	872.6
142.5°	906.3	906.4	906.3	906.1	906.0	905.8	905.7	905.7	905.6	905.6	905.5
145°	953.5	953.9	954.2	954.4	954.6	954.8	954.6	954.4	954.2	953.9	953.6
147.5°	999.2	999.7	999.5	999.3	999.1	998.9	998.8	998.6	998.4	998.2	998.1
150°	1026.1	1026.4	1026.4	1026.4	1026.4	1026.4	1026.4	1026.4	1026.4	1026.4	1026.3
152.5°	1050.7	1050.9	1051.1	1051.3	1051.5	1051.7	1052.2	1052.6	1053.2	1053.7	1053.7
155°	1088.5	1088.4	1088.2	1088.0	1087.8	1087.6	1088.4	1089.3	1090.1	1091.0	1091.0
157.5°	1120.6	1120.4	1120.3	1120.3	1120.2	1120.2	1120.9	1121.5	1122.1	1122.8	1122.8
160°	1141.1	1140.9	1140.7	1140.5	1140.3	1140.1	1140.7	1141.3	1142.0	1142.6	1142.4
162.5°	1158.1	1157.7	1157.5	1157.3	1157.1	1156.9	1158.0	1159.1	1160.3	1161.5	1161.5
165°	1182.4	1181.9	1181.5	1181.0	1180.6	1180.2	1181.5	1182.7	1184.0	1185.2	1185.4
167.5°	1200.3	1199.9	1200.0	1200.0	1200.0	1200.0	1201.3	1202.6	1203.8	1205.1	1205.1
170°	1210.3	1209.8	1210.1	1210.3	1210.5	1210.7	1212.0	1213.2	1214.6	1215.8	1215.7
172.5°	1218.6	1218.2	1218.2	1218.3	1218.3	1218.3	1219.8	1221.3	1222.7	1224.2	1224.1
175°	1228.4	1227.9	1227.6	1227.4	1227.2	1227.0	1228.4	1229.9	1231.4	1232.9	1232.9
177.5°	1232.8	1232.3	1232.3	1232.3	1232.3	1232.3	1233.5	1234.7	1235.9	1237.1	1237.0
180°	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6



TEST NUMBER: P332848-830

CATALOG NUMBER: S124DIW-S1195D1050U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1731.2	1729.9	1725.7	1725.1	1725.7	1729.9	1731.2	1732.3	1734.2	1740.1	1733.0
5°	1599.1	1595.3	1593.1	1601.4	1593.1	1595.3	1599.1	1603.6	1611.2	1611.9	1619.5
7.5°	1499.7	1496.7	1490.1	1487.9	1490.1	1496.7	1499.7	1502.3	1509.9	1516.4	1527.5
10°	1435.9	1432.9	1426.8	1425.3	1426.8	1432.9	1435.9	1443.4	1450.9	1459.2	1466.7
12.5°	1374.4	1368.4	1367.3	1368.8	1367.3	1368.4	1374.4	1384.4	1403.9	1403.8	1405.3
15°	1292.9	1289.9	1281.6	1283.8	1281.6	1289.9	1292.9	1302.7	1311.6	1323.0	1334.3
17.5°	1212.5	1208.9	1198.8	1207.7	1198.8	1208.9	1212.5	1217.8	1229.4	1245.3	1262.3
20°	1161.9	1155.9	1150.7	1149.9	1150.7	1155.9	1161.9	1167.2	1180.0	1193.5	1206.4
22.5°	1113.7	1108.3	1107.9	1103.0	1107.9	1108.3	1113.7	1122.0	1134.8	1142.4	1154.5
25°	1053.6	1048.3	1046.8	1043.0	1046.8	1048.3	1053.6	1059.6	1067.8	1073.8	1087.4
27.5°	1007.4	1004.8	1002.1	1003.2	1002.1	1004.8	1007.4	1008.1	1011.8	1019.8	1027.7
30°	979.0	978.3	976.8	976.8	976.8	978.3	979.0	976.8	980.5	984.3	990.3
32.5°	955.5	955.5	956.3	956.3	956.3	955.5	955.5	952.2	953.5	954.8	957.8
35°	922.7	924.8	926.3	924.1	926.3	924.8	922.7	919.6	917.4	912.1	913.6
37.5°	892.8	895.0	897.2	899.8	897.2	895.0	892.8	886.6	881.2	876.6	871.1
40°	870.0	875.2	876.7	880.4	876.7	875.2	870.0	863.2	857.1	851.9	845.8
42.5°	848.3	854.1	858.0	858.8	858.0	854.1	848.3	841.5	832.5	826.0	817.6
45°	815.0	821.0	826.3	826.3	826.3	821.0	815.0	803.7	793.9	784.1	775.9
47.5°	780.5	789.3	794.6	795.9	794.6	789.3	780.5	768.9	755.3	743.2	731.3
50°	757.1	767.6	772.9	776.7	772.9	767.6	757.1	744.2	730.0	714.9	700.6
52.5°	734.1	744.7	751.8	753.8	751.8	744.7	734.1	718.4	701.1	684.9	672.3
55°	694.6	709.6	717.9	721.0	717.9	709.6	694.6	677.3	660.7	640.4	622.4
57.5°	657.2	671.1	680.7	683.0	680.7	671.1	657.2	637.0	615.6	593.9	574.7
60°	628.4	643.4	655.4	657.7	655.4	643.4	628.4	608.0	585.5	564.4	540.4
62.5°	598.9	614.5	625.4	631.2	625.4	614.5	598.9	577.3	553.0	529.5	505.4
65°	547.8	563.6	574.2	576.5	574.2	563.6	547.8	526.8	501.1	476.4	456.0
67.5°	492.2	507.9	514.9	519.2	514.9	507.9	492.2	472.3	447.0	421.3	398.2
70°	453.0	465.8	473.3	477.1	473.3	465.8	453.0	432.0	410.9	384.6	359.7
72.5°	408.5	421.9	430.6	431.3	430.6	421.9	408.5	390.4	368.2	343.7	321.8
75°	340.2	352.2	356.7	356.7	356.7	352.2	340.2	322.8	304.8	285.2	263.3
77.5°	269.3	275.4	281.2	282.4	281.2	275.4	269.3	256.7	241.9	222.3	205.9
80°	223.5	227.2	231.8	231.8	231.8	227.2	223.5	212.3	197.9	181.3	168.5
82.5°	176.5	179.7	184.3	183.6	184.3	179.7	176.5	167.7	155.8	144.7	133.1
85°	106.9	113.7	112.9	111.4	112.9	113.7	106.9	108.4	97.1	89.5	79.0
87.5°	53.6	54.3	56.2	57.5	56.2	54.3	53.6	51.7	46.2	42.9	40.2
90°	27.3	27.8	28.2	28.7	28.2	27.8	27.3	27.0	26.1	24.8	23.6
92.5°	41.7	41.8	42.1	42.4	42.1	41.8	41.7	41.4	40.9	40.1	39.3
95°	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.1	74.5	73.8
97.5°	118.2	118.2	118.2	118.2	118.2	118.2	118.2	118.2	117.8	117.1	116.3
100°	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	147.8	147.3	146.9
102.5°	181.1	181.3	181.4	181.6	181.4	181.3	181.1	181.0	180.6	179.9	179.4
105°	231.1	231.7	232.3	233.0	232.3	231.7	231.1	230.5	229.8	229.1	228.6
107.5°	283.1	283.1	283.0	283.0	283.0	283.1	283.1	283.1	283.0	282.3	281.7
110°	317.0	317.6	318.3	319.0	318.3	317.6	317.0	316.4	316.2	316.7	317.1



TEST NUMBER: P332848-830

CATALOG NUMBER: S124DIW-S1195D1050U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	355.2	355.3	355.4	355.6	355.4	355.3	355.2	355.1	355.1	355.2	355.2
115°	413.1	412.9	412.7	412.5	412.7	412.9	413.1	413.3	413.6	413.8	414.0
117.5°	468.0	467.6	467.1	466.7	467.1	467.6	468.0	468.4	469.0	469.7	470.4
120°	506.7	507.1	507.6	507.9	507.6	507.1	506.7	506.2	506.6	507.7	508.7
122.5°	544.6	543.8	543.1	542.3	543.1	543.8	544.6	545.4	546.1	546.9	547.6
125°	602.9	602.4	602.0	601.5	602.0	602.4	602.9	603.2	603.7	604.1	604.5
127.5°	657.3	657.0	656.7	656.4	656.7	657.0	657.3	657.7	658.1	658.6	658.9
130°	694.8	694.0	693.1	692.3	693.1	694.0	694.8	695.7	696.3	696.7	697.1
132.5°	731.5	731.1	730.8	730.5	730.8	731.1	731.5	731.8	732.2	732.6	733.0
135°	784.9	784.2	783.6	783.0	783.6	784.2	784.9	785.5	786.1	786.5	786.9
137.5°	837.7	837.9	838.0	838.1	838.0	837.9	837.7	837.6	837.8	838.4	839.0
140°	872.4	872.2	871.9	871.8	871.9	872.2	872.4	872.6	872.8	873.1	873.3
142.5°	905.5	905.5	905.4	905.4	905.4	905.5	905.5	905.5	905.6	905.6	905.7
145°	952.9	952.3	951.7	951.0	951.7	952.3	952.9	953.6	953.9	954.2	954.4
147.5°	997.9	997.7	997.4	997.2	997.4	997.7	997.9	998.1	998.2	998.4	998.6
150°	1026.1	1026.0	1025.7	1025.5	1025.7	1026.0	1026.1	1026.3	1026.4	1026.4	1026.4
152.5°	1053.1	1052.5	1052.0	1051.5	1052.0	1052.5	1053.1	1053.7	1053.7	1053.2	1052.6
155°	1090.1	1089.3	1088.4	1087.6	1088.4	1089.3	1090.1	1091.0	1091.0	1090.1	1089.3
157.5°	1122.0	1121.2	1120.6	1119.8	1120.6	1121.2	1122.0	1122.8	1122.8	1122.1	1121.5
160°	1141.3	1140.3	1139.3	1138.1	1139.3	1140.3	1141.3	1142.4	1142.6	1142.0	1141.3
162.5°	1160.5	1159.4	1158.3	1157.3	1158.3	1159.4	1160.5	1161.5	1161.5	1160.3	1159.1
165°	1184.6	1183.7	1182.9	1182.0	1182.9	1183.7	1184.6	1185.4	1185.2	1184.0	1182.7
167.5°	1203.8	1202.5	1201.2	1199.9	1201.2	1202.5	1203.8	1205.1	1205.1	1203.8	1202.6
170°	1214.3	1212.8	1211.3	1209.8	1211.3	1212.8	1214.3	1215.7	1215.8	1214.6	1213.2
172.5°	1222.7	1221.2	1219.7	1218.1	1219.7	1221.2	1222.7	1224.1	1224.2	1222.7	1221.3
175°	1231.4	1229.9	1228.4	1227.0	1228.4	1229.9	1231.4	1232.9	1232.9	1231.4	1229.9
177.5°	1235.6	1234.3	1232.9	1231.5	1232.9	1234.3	1235.6	1237.0	1237.1	1235.9	1234.7
180°	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6



TEST NUMBER: P332848-830

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1736.5	1739.0	1748.6	1757.7	1768.5	1776.3	1781.7	1787.7	1800.4	1810.6	1820.2
5°	1627.0	1630.8	1650.3	1663.9	1687.2	1707.5	1723.3	1740.6	1761.0	1788.8	1814.4
7.5°	1530.5	1544.5	1565.8	1587.8	1611.7	1638.2	1661.4	1687.5	1722.6	1760.8	1800.3
10°	1475.7	1491.6	1514.1	1539.7	1562.3	1593.1	1621.7	1652.6	1692.4	1739.1	1785.7
12.5°	1421.0	1447.0	1464.1	1494.5	1518.9	1544.4	1574.8	1615.2	1661.8	1710.8	1767.1
15°	1352.3	1366.6	1399.7	1416.3	1450.9	1490.1	1520.1	1560.8	1605.9	1670.7	1733.8
17.5°	1273.2	1291.9	1318.3	1349.9	1389.6	1420.2	1457.6	1499.5	1556.4	1620.7	1699.9
20°	1221.3	1237.2	1269.5	1304.1	1346.3	1378.7	1418.5	1459.2	1517.9	1586.4	1669.1
22.5°	1175.0	1190.2	1224.4	1256.6	1297.5	1337.1	1378.8	1426.1	1482.3	1554.4	1639.0
25°	1103.2	1123.5	1153.7	1186.8	1225.9	1271.0	1316.2	1358.3	1418.5	1494.5	1584.9
27.5°	1039.5	1055.8	1077.6	1115.2	1159.7	1203.3	1248.1	1301.2	1359.0	1439.3	1533.0
30°	998.6	1013.7	1035.5	1070.1	1111.5	1158.2	1204.9	1255.9	1316.2	1396.0	1491.6
32.5°	966.1	977.5	996.9	1027.9	1065.7	1114.8	1160.8	1213.8	1277.1	1355.7	1448.8
35°	918.1	927.8	935.4	964.8	998.6	1043.8	1090.4	1146.9	1207.9	1282.3	1375.6
37.5°	871.0	874.3	885.3	904.6	937.4	978.9	1022.3	1077.8	1140.3	1216.0	1300.0
40°	842.1	843.6	850.4	868.5	897.0	936.1	978.3	1033.2	1092.7	1164.1	1247.7
42.5°	813.8	812.8	819.1	831.7	858.5	894.0	935.6	985.7	1045.1	1111.2	1189.9
45°	769.1	769.1	767.6	778.2	799.9	834.5	869.2	917.4	967.0	1031.7	1098.0
47.5°	722.5	718.2	719.5	725.0	743.4	771.8	806.7	846.1	889.9	944.7	1002.9
50°	692.3	686.4	684.1	690.0	706.6	731.5	764.6	799.2	840.6	888.7	938.4
52.5°	659.2	653.2	649.1	653.4	668.7	691.7	721.8	752.2	789.4	828.6	871.6
55°	608.0	601.2	599.0	600.5	611.8	629.9	655.4	683.3	711.1	743.5	773.6
57.5°	557.6	546.5	544.4	543.7	551.5	568.0	589.4	613.5	633.8	653.4	685.4
60°	524.5	511.0	506.4	505.7	511.7	525.3	544.8	568.9	583.2	596.7	624.6
62.5°	489.0	476.1	466.1	467.2	472.6	485.5	502.7	520.2	529.6	544.4	563.2
65°	434.2	417.6	410.1	407.8	410.9	421.4	435.0	446.3	456.8	462.8	480.9
67.5°	379.5	365.6	354.5	351.8	350.3	357.6	368.7	375.5	383.0	388.3	399.0
70°	340.9	328.9	315.3	310.8	310.0	316.0	326.6	327.3	337.9	340.2	351.5
72.5°	302.9	287.9	278.6	274.1	270.9	276.4	283.2	285.2	291.0	295.0	300.9
75°	243.8	232.5	223.5	216.7	214.4	217.4	217.4	221.2	225.0	227.2	234.0
77.5°	191.9	179.0	168.2	164.4	161.6	159.7	161.4	163.6	161.8	165.7	167.2
80°	155.8	142.2	133.9	132.4	127.9	124.1	123.4	125.6	122.6	124.1	128.7
82.5°	120.3	111.5	102.6	101.1	95.4	93.5	92.7	91.3	91.3	91.0	92.0
85°	71.4	66.3	60.2	56.5	54.2	50.4	50.4	48.9	47.4	45.9	46.7
87.5°	33.4	31.9	28.6	26.4	24.9	22.1	21.7	19.4	18.4	17.2	16.2
90°	22.2	21.0	19.3	17.6	15.9	14.2	12.2	9.9	7.5	5.2	2.8
92.5°	38.5	37.8	36.7	35.4	34.2	33.1	31.1	28.5	25.8	23.1	20.5
95°	73.2	72.6	71.1	69.6	68.1	66.6	64.9	63.1	61.1	59.2	57.3
97.5°	115.6	114.8	113.0	111.3	109.5	107.8	106.2	104.6	103.1	101.6	100.1
100°	146.5	146.1	144.2	142.2	140.3	138.5	137.0	136.2	135.3	134.5	133.7
102.5°	178.8	178.1	176.4	174.7	173.0	171.2	170.1	169.8	169.5	169.2	168.8
105°	227.9	227.2	226.4	225.6	224.7	223.9	223.3	223.1	222.9	222.7	222.4
107.5°	281.2	280.5	280.4	280.3	280.1	280.0	279.8	279.6	279.3	279.1	278.8
110°	317.5	317.9	318.2	318.4	318.6	318.8	318.7	318.3	317.8	317.4	317.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	355.3	355.4	355.8	356.2	356.6	356.9	357.0	356.9	356.9	356.8	356.8
115°	414.2	414.4	414.8	415.3	415.7	416.1	416.3	416.3	416.3	416.3	416.3
117.5°	471.2	471.8	472.2	472.5	472.8	473.1	473.2	473.0	472.8	472.6	472.5
120°	509.8	510.9	511.5	512.1	512.7	513.4	513.3	512.5	511.6	510.8	509.9
122.5°	548.3	549.0	549.3	549.6	549.9	550.3	550.2	549.9	549.5	549.2	548.8
125°	604.9	605.4	605.6	605.8	606.0	606.2	606.3	606.3	606.3	606.3	606.3
127.5°	659.4	659.8	660.2	660.4	660.8	661.2	661.0	660.3	659.7	659.1	658.5
130°	697.6	698.0	698.0	698.0	698.0	698.0	697.7	697.0	696.4	695.8	695.1
132.5°	733.5	733.9	734.1	734.2	734.4	734.5	734.4	734.0	733.5	733.0	732.5
135°	787.3	787.8	787.8	787.8	787.8	787.8	787.1	785.8	784.6	783.3	782.0
137.5°	839.5	840.1	839.7	839.4	839.1	838.7	838.2	837.6	837.1	836.4	835.8
140°	873.5	873.6	873.6	873.6	873.6	873.6	873.5	873.1	872.6	872.2	871.8
142.5°	905.7	905.8	906.0	906.1	906.3	906.4	906.3	905.9	905.5	905.0	904.7
145°	954.6	954.8	954.6	954.4	954.2	953.9	953.5	952.6	951.8	950.9	950.1
147.5°	998.8	998.9	999.1	999.3	999.5	999.7	999.2	998.2	997.2	996.2	995.1
150°	1026.4	1026.4	1026.4	1026.4	1026.4	1026.4	1026.1	1025.2	1024.4	1023.5	1022.7
152.5°	1052.2	1051.7	1051.5	1051.3	1051.1	1050.9	1050.7	1050.1	1049.6	1049.1	1048.6
155°	1088.4	1087.6	1087.8	1088.0	1088.2	1088.4	1088.5	1088.5	1088.5	1088.5	1088.5
157.5°	1120.9	1120.2	1120.2	1120.3	1120.3	1120.4	1120.6	1121.0	1121.3	1121.7	1122.1
160°	1140.7	1140.1	1140.3	1140.5	1140.7	1140.9	1141.1	1141.3	1141.5	1141.8	1142.0
162.5°	1158.0	1156.9	1157.1	1157.3	1157.5	1157.7	1158.1	1158.7	1159.2	1159.8	1160.3
165°	1181.5	1180.2	1180.6	1181.0	1181.5	1181.9	1182.4	1183.1	1183.6	1184.3	1185.0
167.5°	1201.3	1200.0	1200.0	1200.0	1200.0	1199.9	1200.3	1201.2	1202.1	1203.0	1203.8
170°	1212.0	1210.7	1210.5	1210.3	1210.1	1209.8	1210.3	1211.4	1212.4	1213.5	1214.6
172.5°	1219.8	1218.3	1218.3	1218.3	1218.2	1218.2	1218.6	1219.6	1220.4	1221.3	1222.2
175°	1228.4	1227.0	1227.2	1227.4	1227.6	1227.9	1228.4	1229.5	1230.6	1231.6	1232.7
177.5°	1233.5	1232.3	1232.3	1232.3	1232.3	1232.3	1232.8	1233.6	1234.4	1235.3	1236.1
180°	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1828.6	1834.7	1842.5	1855.8	1860.6	1866.6	1875.0	1874.4	1876.8	1885.8	1905.2
5°	1835.4	1858.8	1881.3	1908.5	1937.0	1955.9	1981.4	1997.2	2013.1	2033.3	2067.9
7.5°	1838.1	1875.2	1916.6	1964.2	2006.4	2055.2	2093.3	2129.1	2161.4	2204.3	2245.6
10°	1833.9	1883.6	1937.0	1997.2	2061.2	2115.3	2164.3	2220.0	2267.4	2319.3	2366.0
12.5°	1826.1	1886.0	1957.5	2025.0	2099.7	2179.8	2240.8	2297.1	2360.1	2419.9	2491.8
15°	1808.4	1890.4	1973.9	2062.7	2162.8	2255.3	2343.4	2416.4	2484.2	2573.7	2667.8
17.5°	1785.7	1874.2	1979.6	2087.1	2191.7	2297.5	2406.5	2516.2	2601.7	2712.9	2786.5
20°	1764.7	1867.1	1975.4	2103.4	2207.9	2339.7	2448.0	2554.1	2671.5	2782.1	2870.1
22.5°	1735.2	1847.2	1962.2	2089.5	2227.2	2358.9	2484.2	2599.2	2716.7	2837.0	2943.7
25°	1697.7	1799.3	1935.5	2080.0	2217.0	2359.9	2503.7	2648.2	2774.6	2901.8	3001.1
27.5°	1633.9	1762.2	1889.0	2038.2	2190.4	2352.1	2505.8	2657.0	2789.5	2894.1	2955.6
30°	1601.4	1712.8	1850.5	2000.3	2165.0	2338.9	2499.2	2647.4	2770.9	2854.4	2879.2
32.5°	1553.2	1668.2	1802.9	1958.1	2132.5	2311.2	2478.1	2617.9	2720.8	2764.7	2734.7
35°	1481.8	1585.6	1721.8	1880.6	2061.9	2252.3	2417.2	2535.3	2587.9	2546.6	2443.4
37.5°	1396.0	1498.9	1635.7	1791.7	1979.3	2172.8	2321.9	2406.9	2389.4	2286.5	2132.9
40°	1335.8	1432.1	1562.3	1730.8	1913.7	2107.9	2238.8	2284.7	2236.6	2089.1	1925.7
42.5°	1268.9	1362.8	1493.6	1656.1	1849.9	2029.0	2143.1	2146.8	2066.1	1889.8	1725.9
45°	1167.2	1256.7	1380.2	1549.4	1728.6	1897.1	1972.4	1935.5	1786.5	1616.5	1451.6
47.5°	1066.8	1144.4	1266.0	1426.8	1596.9	1738.8	1776.1	1709.8	1551.0	1385.9	1233.1
50°	993.3	1071.6	1186.0	1339.5	1503.5	1626.3	1644.3	1556.2	1400.4	1234.2	1114.5
52.5°	922.9	1000.6	1110.8	1252.8	1403.1	1513.6	1514.3	1412.4	1257.2	1108.9	997.7
55°	819.5	889.5	988.8	1116.0	1250.0	1336.5	1315.4	1210.0	1075.3	946.7	849.6
57.5°	719.9	780.8	872.3	978.5	1096.5	1167.8	1132.8	1031.4	911.2	802.0	728.5
60°	655.4	713.4	791.6	891.7	991.1	1046.8	1013.7	921.9	811.2	723.2	659.2
62.5°	592.9	641.8	717.0	803.9	896.0	937.2	907.7	817.1	721.5	641.9	590.0
65°	504.2	544.1	604.3	678.8	745.7	781.2	756.3	672.0	599.0	541.9	500.4
67.5°	421.4	452.6	498.1	557.9	614.8	634.0	611.3	552.7	490.8	445.1	415.8
70°	364.2	393.6	432.0	477.9	527.5	547.8	525.3	478.6	428.2	386.1	357.4
72.5°	314.2	337.0	369.4	408.6	447.4	467.8	452.4	407.6	365.0	333.7	309.2
75°	239.3	258.9	281.4	309.2	339.4	353.0	339.4	308.5	279.2	255.9	238.6
77.5°	174.0	184.5	202.0	222.7	241.6	251.9	240.3	219.3	201.4	185.4	176.8
80°	132.4	140.0	152.0	168.5	181.3	191.1	183.6	166.3	152.0	141.5	137.7
82.5°	96.3	101.4	109.2	121.6	130.2	135.2	131.9	119.3	113.5	104.2	100.4
85°	47.4	50.4	55.7	59.5	67.0	67.8	68.5	63.2	58.0	55.7	52.7
87.5°	17.2	18.4	20.6	22.9	25.7	26.7	26.4	26.8	24.7	24.3	22.1
90°	5.2	7.5	9.9	12.2	14.2	15.9	17.6	19.3	21.0	22.2	23.6
92.5°	23.1	25.8	28.5	31.1	33.1	34.2	35.4	36.7	37.8	38.5	39.3
95°	59.2	61.1	63.1	64.9	66.6	68.1	69.6	71.1	72.6	73.2	73.8
97.5°	101.6	103.1	104.6	106.2	107.8	109.5	111.3	113.0	114.8	115.6	116.3
100°	134.5	135.3	136.2	137.0	138.5	140.3	142.2	144.2	146.1	146.5	146.9
102.5°	169.2	169.5	169.8	170.1	171.2	173.0	174.7	176.4	178.1	178.8	179.4
105°	222.7	222.9	223.1	223.3	223.9	224.7	225.6	226.4	227.2	227.9	228.6
107.5°	279.1	279.3	279.6	279.8	280.0	280.1	280.3	280.4	280.5	281.2	281.7
110°	317.4	317.8	318.3	318.7	318.8	318.6	318.4	318.2	317.9	317.5	317.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	356.8	356.9	356.9	357.0	356.9	356.6	356.2	355.8	355.4	355.3	355.2
115°	416.3	416.3	416.3	416.3	416.1	415.7	415.3	414.8	414.4	414.2	414.0
117.5°	472.6	472.8	473.0	473.2	473.1	472.8	472.5	472.2	471.8	471.2	470.4
120°	510.8	511.6	512.5	513.3	513.4	512.7	512.1	511.5	510.9	509.8	508.7
122.5°	549.2	549.5	549.9	550.2	550.3	549.9	549.6	549.3	549.0	548.3	547.6
125°	606.3	606.3	606.3	606.3	606.2	606.0	605.8	605.6	605.4	604.9	604.5
127.5°	659.1	659.7	660.3	661.0	661.2	660.8	660.4	660.2	659.8	659.4	658.9
130°	695.8	696.4	697.0	697.7	698.0	698.0	698.0	698.0	698.0	697.6	697.1
132.5°	733.0	733.5	734.0	734.4	734.5	734.4	734.2	734.1	733.9	733.5	733.0
135°	783.3	784.6	785.8	787.1	787.8	787.8	787.8	787.8	787.8	787.3	786.9
137.5°	836.4	837.1	837.6	838.2	838.7	839.1	839.4	839.7	840.1	839.5	839.0
140°	872.2	872.6	873.1	873.5	873.6	873.6	873.6	873.6	873.6	873.5	873.3
142.5°	905.0	905.5	905.9	906.3	906.4	906.3	906.1	906.0	905.8	905.7	905.7
145°	950.9	951.8	952.6	953.5	953.9	954.2	954.4	954.6	954.8	954.6	954.4
147.5°	996.2	997.2	998.2	999.2	999.7	999.5	999.3	999.1	998.9	998.8	998.6
150°	1023.5	1024.4	1025.2	1026.1	1026.4	1026.4	1026.4	1026.4	1026.4	1026.4	1026.4
152.5°	1049.1	1049.6	1050.1	1050.7	1050.9	1051.1	1051.3	1051.5	1051.7	1052.2	1052.6
155°	1088.5	1088.5	1088.5	1088.5	1088.4	1088.2	1088.0	1087.8	1087.6	1088.4	1089.3
157.5°	1121.7	1121.3	1121.0	1120.6	1120.4	1120.3	1120.3	1120.2	1120.2	1120.9	1121.5
160°	1141.8	1141.5	1141.3	1141.1	1140.9	1140.7	1140.5	1140.3	1140.1	1140.7	1141.3
162.5°	1159.8	1159.2	1158.7	1158.1	1157.7	1157.5	1157.3	1157.1	1156.9	1158.0	1159.1
165°	1184.3	1183.6	1183.1	1182.4	1181.9	1181.5	1181.0	1180.6	1180.2	1181.5	1182.7
167.5°	1203.0	1202.1	1201.2	1200.3	1199.9	1200.0	1200.0	1200.0	1200.0	1201.3	1202.6
170°	1213.5	1212.4	1211.4	1210.3	1209.8	1210.1	1210.3	1210.5	1210.7	1212.0	1213.2
172.5°	1221.3	1220.4	1219.6	1218.6	1218.2	1218.2	1218.3	1218.3	1218.3	1219.8	1221.3
175°	1231.6	1230.6	1229.5	1228.4	1227.9	1227.6	1227.4	1227.2	1227.0	1228.4	1229.9
177.5°	1235.3	1234.4	1233.6	1232.8	1232.3	1232.3	1232.3	1232.3	1232.3	1233.5	1234.7
180°	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1914.8	1916.0	1921.4	1925.6	1926.8	1932.8	1933.4
5°	2083.0	2095.8	2120.6	2122.9	2126.7	2146.3	2131.2
7.5°	2280.2	2312.7	2334.4	2353.5	2360.4	2369.0	2367.2
10°	2406.6	2454.8	2478.9	2517.2	2518.8	2528.6	2522.5
12.5°	2533.6	2589.6	2633.6	2640.6	2672.9	2677.9	2686.2
15°	2713.7	2773.1	2834.0	2855.9	2900.3	2910.9	2927.3
17.5°	2882.9	2943.7	2986.4	3042.8	3061.0	3085.4	3068.8
20°	2975.5	3041.8	3096.0	3140.4	3159.1	3172.7	3171.2
22.5°	3031.5	3098.3	3142.2	3175.9	3193.4	3199.2	3198.9
25°	3066.6	3104.9	3118.5	3131.3	3111.7	3104.9	3107.9
27.5°	2969.1	2959.1	2923.8	2877.4	2829.2	2791.0	2770.2
30°	2834.8	2776.1	2722.7	2629.3	2581.2	2552.6	2527.1
32.5°	2644.6	2551.6	2448.7	2363.2	2308.5	2266.1	2259.7
35°	2318.6	2178.6	2053.0	1948.3	1894.1	1848.2	1837.7
37.5°	1971.2	1825.8	1712.6	1620.5	1562.3	1529.9	1499.7
40°	1740.6	1615.7	1504.3	1426.1	1381.7	1358.3	1339.5
42.5°	1563.0	1449.0	1338.1	1278.6	1238.4	1224.1	1213.1
45°	1317.7	1211.5	1134.8	1089.7	1066.3	1042.3	1031.0
47.5°	1121.2	1034.9	984.3	945.9	921.0	906.6	899.5
50°	1009.9	939.1	894.0	864.7	842.1	830.8	824.8
52.5°	911.2	853.1	815.1	791.8	776.5	768.2	765.8
55°	784.9	740.5	716.4	696.1	684.9	677.3	674.3
57.5°	682.2	648.1	628.5	611.8	607.5	601.2	599.0
60°	614.8	588.5	571.9	560.6	556.9	549.3	550.8
62.5°	555.3	533.7	519.5	513.1	508.1	501.8	503.9
65°	469.6	453.7	446.3	440.3	434.2	430.5	433.5
67.5°	394.0	383.2	373.0	369.5	366.5	365.9	362.7
70°	344.7	335.6	326.6	324.3	324.3	321.3	320.6
72.5°	297.1	290.5	284.5	282.8	280.4	281.6	278.4
75°	229.5	224.2	222.0	219.7	219.0	219.0	216.7
77.5°	169.7	165.7	162.1	162.1	159.4	158.3	158.1
80°	128.7	127.1	124.1	124.1	122.6	123.4	121.9
82.5°	96.8	94.6	94.1	92.8	90.8	90.9	89.4
85°	51.9	49.7	48.9	46.7	45.1	46.7	45.1
87.5°	23.0	22.7	22.2	21.1	20.6	20.7	18.9
90°	24.8	26.1	27.0	27.3	27.8	28.2	28.7
92.5°	40.1	40.9	41.4	41.7	41.8	42.1	42.4
95°	74.5	75.1	75.4	75.4	75.4	75.4	75.4
97.5°	117.1	117.8	118.2	118.2	118.2	118.2	118.2
100°	147.3	147.8	148.0	148.0	148.0	148.0	148.0
102.5°	179.9	180.6	181.0	181.1	181.3	181.4	181.6
105°	229.1	229.8	230.5	231.1	231.7	232.3	233.0
107.5°	282.3	283.0	283.1	283.1	283.1	283.0	283.0
110°	316.7	316.2	316.4	317.0	317.6	318.3	319.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	355.2	355.1	355.1	355.2	355.3	355.4	355.6
115°	413.8	413.6	413.3	413.1	412.9	412.7	412.5
117.5°	469.7	469.0	468.4	468.0	467.6	467.1	466.7
120°	507.7	506.6	506.2	506.7	507.1	507.6	507.9
122.5°	546.9	546.1	545.4	544.6	543.8	543.1	542.3
125°	604.1	603.7	603.2	602.9	602.4	602.0	601.5
127.5°	658.6	658.1	657.7	657.3	657.0	656.7	656.4
130°	696.7	696.3	695.7	694.8	694.0	693.1	692.3
132.5°	732.6	732.2	731.8	731.5	731.1	730.8	730.5
135°	786.5	786.1	785.5	784.9	784.2	783.6	783.0
137.5°	838.4	837.8	837.6	837.7	837.9	838.0	838.1
140°	873.1	872.8	872.6	872.4	872.2	871.9	871.8
142.5°	905.6	905.6	905.5	905.5	905.5	905.4	905.4
145°	954.2	953.9	953.6	952.9	952.3	951.7	951.0
147.5°	998.4	998.2	998.1	997.9	997.7	997.4	997.2
150°	1026.4	1026.4	1026.3	1026.1	1026.0	1025.7	1025.5
152.5°	1053.2	1053.7	1053.7	1053.1	1052.5	1052.0	1051.5
155°	1090.1	1091.0	1091.0	1090.1	1089.3	1088.4	1087.6
157.5°	1122.1	1122.8	1122.8	1122.0	1121.2	1120.6	1119.8
160°	1142.0	1142.6	1142.4	1141.3	1140.3	1139.3	1138.1
162.5°	1160.3	1161.5	1161.5	1160.5	1159.4	1158.3	1157.3
165°	1184.0	1185.2	1185.4	1184.6	1183.7	1182.9	1182.0
167.5°	1203.8	1205.1	1205.1	1203.8	1202.5	1201.2	1199.9
170°	1214.6	1215.8	1215.7	1214.3	1212.8	1211.3	1209.8
172.5°	1222.7	1224.2	1224.1	1222.7	1221.2	1219.7	1218.1
175°	1231.4	1232.9	1232.9	1231.4	1229.9	1228.4	1227.0
177.5°	1235.9	1237.1	1237.0	1235.6	1234.3	1232.9	1231.5
180°	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6	1234.6

(END OF REPORT)