

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: P331403

Luminaire Tested: **SA2XXDIP-C865D925U835-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331403
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C865D925U835-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 925 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

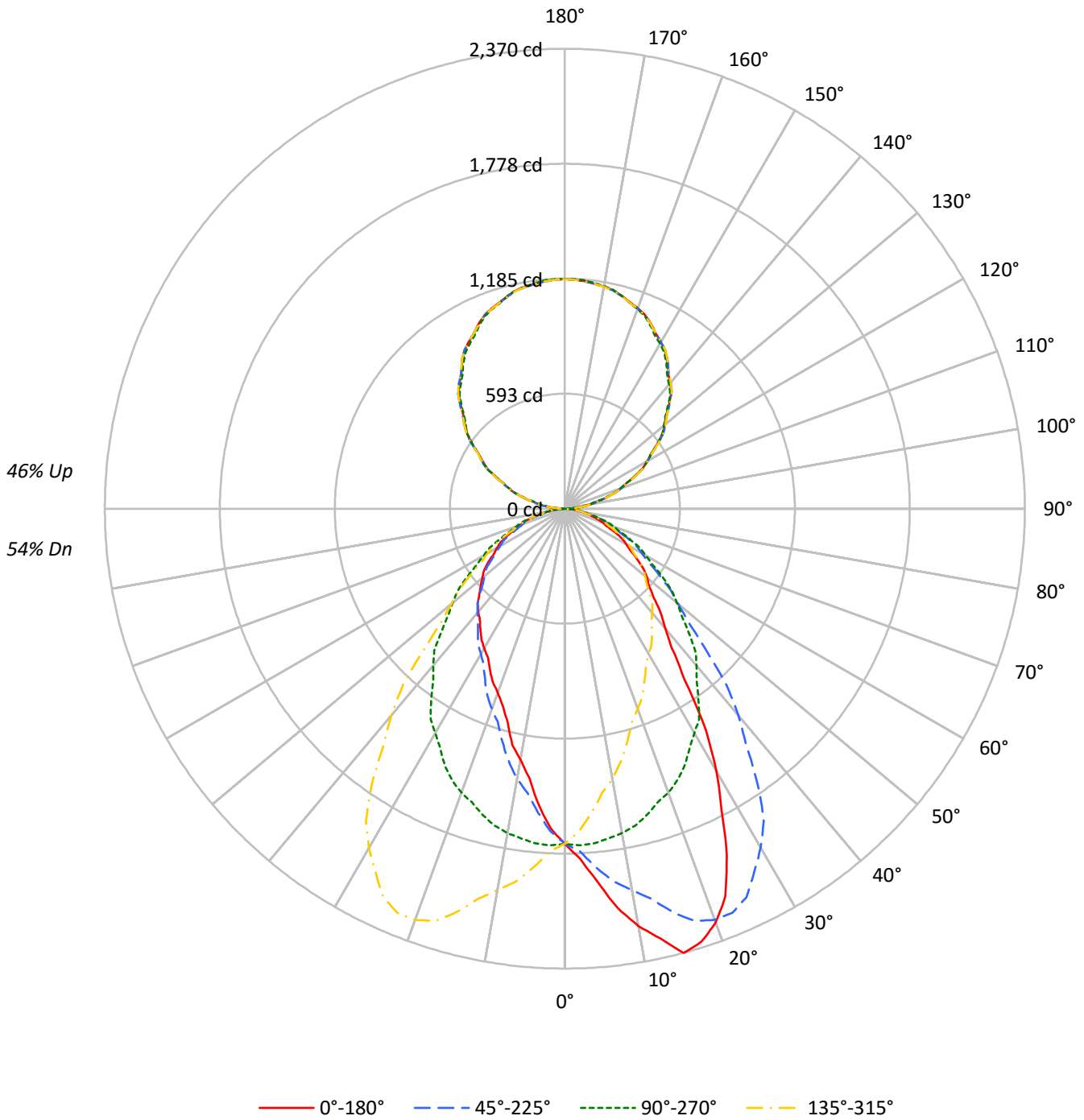
Lumens per Lamp: N/A
Luminaire Lumens: 7120.5 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 60.5
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	50	30	10	50	30	10	50	30	10	50	30	10	0																		
RCR	0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	54	54	54	46	46	46	39	39	39	30	30	30	26	26	26	23	23	23	21	21	21	19	19	19	17	17	17	16	16	16
	1	99	95	91	88	92	88	85	82	76	73	71	64	62	61	53	52	51	46	46	46	39	39	39	30	30	30	26	26	26	23	23	23	21	21	21	19	19	19	17	17	17	16	16	16			
	2	91	83	78	73	84	78	73	68	67	63	60	57	54	52	48	46	44	39	39	39	30	30	30	26	26	26	23	23	23	21	21	21	19	19	19	17	17	17	16	16	16						
	3	83	74	67	61	77	69	63	58	59	55	51	51	47	44	43	40	38	34	34	34	26	26	26	23	23	23	21	21	21	19	19	19	17	17	17	16	16	16	16	16							
	4	76	66	58	52	70	61	55	49	53	48	44	45	42	38	38	36	33	30	30	30	26	26	26	23	23	23	21	21	21	19	19	19	17	17	17	16	16	16	16	16							
	5	70	59	51	45	65	55	48	43	48	42	38	41	37	34	35	32	29	26	26	26	23	23	23	21	21	21	19	19	19	17	17	17	16	16	16	16	16	16	16								
	6	65	53	45	39	60	50	43	37	43	38	34	37	33	30	32	29	26	23	23	23	21	21	21	19	19	19	17	17	17	16	16	16	16	16	16	16	16	16	16								
	7	60	48	40	35	56	45	38	33	39	34	30	34	30	27	29	26	23	21	21	21	19	19	19	17	17	17	16	16	16	16	16	16	16	16	16	16	16	16	16								
	8	56	44	36	31	52	41	34	30	36	31	27	31	27	24	27	24	21	19	19	19	17	17	17	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16							
	9	52	40	33	28	48	38	31	27	33	28	24	29	25	22	25	22	19	17	17	17	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16								
	10	49	37	30	25	45	35	28	24	31	25	22	27	23	20	23	20	18	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	27876	27876	27876	27876
5°	31253	28058	24864	28058
10°	35813	27829	21518	27829
15°	39619	27318	19010	27318
20°	39015	26770	17330	26770
25°	35179	26042	16265	26042
30°	29071	24878	15489	24878
35°	21187	23660	14937	23660
40°	16923	22223	14629	22223
45°	14787	20559	14212	20559
50°	13901	18952	13933	18952
55°	12814	17315	13560	17315
60°	11741	15578	12984	15578
65°	10697	14017	12420	14017
70°	9711	12500	11589	12500
75°	8609	10805	10268	10805
80°	7401	8945	8266	8945
85°	6632	6632	4909	6632



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.4	2.3
10°-20°	478.0	6.7
20°-30°	693.8	9.7
30°-40°	732.1	10.3
40°-50°	648.2	9.1
50°-60°	517.3	7.3
60°-70°	351.6	4.9
70°-80°	180.3	2.5
80°-90°	48.2	0.7
90°-100°	74.9	1.1
100°-110°	232.7	3.3
110°-120°	397.8	5.6
120°-130°	523.2	7.3
130°-140°	587.2	8.2
140°-150°	575.7	8.1
150°-160°	482.9	6.8
160°-170°	320.3	4.5
170°-180°	111.9	1.6
0°-30°	1336.2	18.8
0°-40°	2068.3	29.0
0°-60°	3233.8	45.4
0°-90°	3813.8	53.6
90°-120°	705.5	9.9
90°-150°	2391.6	33.6
90°-180°	3307.0	46.4
0°-180°	7120.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1726	1726	1726	1726	1726	
5°	1928	1731	1534	1731	1928	193
15°	2370	1634	1137	1634	2370	654
25°	1975	1462	913	1462	1975	893
35°	1075	1200	758	1200	1075	699
45°	648	900	622	900	648	509
55°	455	615	482	615	455	408
65°	280	367	325	367	280	278
75°	138	173	165	173	138	147
85°	36	36	26	36	36	40
90°	34	1	34	1	34	17
95°	62	52	62	52	62	69
105°	222	215	222	215	222	233
115°	399	399	399	399	399	394
125°	583	581	583	581	583	520
135°	760	752	760	752	760	585
145°	922	912	922	912	922	576
155°	1051	1043	1051	1043	1051	484
165°	1136	1135	1136	1135	1136	320
175°	1177	1181	1177	1181	1177	112
180°	1183	1183	1183	1183	1183	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1806.2	1806.7	1807.8	1799.3	1798.2	1798.2	1790.8	1784.4	1777.0	1766.9	1768.0
5°	1928.3	1935.6	1938.2	1930.3	1918.3	1917.0	1905.7	1887.1	1869.9	1855.9	1846.0
7.5°	2074.0	2076.9	2070.4	2059.9	2051.0	2035.1	2014.1	1993.6	1964.8	1938.4	1918.7
10°	2184.4	2188.4	2177.1	2161.8	2149.2	2130.6	2100.1	2068.9	2031.1	1994.6	1965.4
12.5°	2268.3	2278.1	2263.6	2261.6	2240.0	2214.5	2178.2	2162.4	2109.2	2058.3	2027.0
15°	2370.2	2369.5	2370.9	2358.2	2342.3	2338.3	2299.9	2258.1	2183.1	2153.2	2101.5
17.5°	2340.7	2350.8	2355.5	2355.3	2354.9	2352.4	2340.1	2313.7	2276.1	2227.7	2167.9
20°	2270.7	2283.9	2285.9	2301.2	2309.8	2321.1	2325.7	2318.4	2295.2	2254.7	2203.0
22.5°	2162.4	2166.1	2172.3	2196.1	2214.8	2243.1	2257.8	2282.3	2273.4	2253.7	2210.4
25°	1974.7	1968.1	1991.3	2003.2	2046.4	2091.5	2124.0	2159.8	2191.7	2210.9	2198.3
27.5°	1749.4	1739.4	1774.2	1805.9	1840.9	1889.8	1940.5	2000.3	2050.1	2112.3	2133.7
30°	1559.3	1565.3	1598.5	1632.3	1685.4	1754.4	1811.5	1877.2	1948.2	2017.8	2066.3
32.5°	1354.4	1377.4	1398.4	1450.2	1497.0	1573.9	1657.5	1739.7	1828.2	1907.4	1982.4
35°	1074.9	1101.5	1130.7	1168.5	1234.2	1310.5	1392.1	1502.9	1623.7	1731.9	1820.8
37.5°	904.8	900.6	917.3	944.6	997.8	1059.4	1153.4	1262.9	1405.0	1532.1	1657.5
40°	802.9	800.2	812.2	837.4	877.9	923.0	1005.3	1101.5	1233.5	1388.8	1538.1
42.5°	732.8	734.4	741.0	758.8	786.6	823.7	885.3	967.2	1088.1	1234.3	1394.8
45°	647.6	652.3	659.6	668.2	684.1	714.6	749.1	807.5	903.1	1025.2	1183.1
47.5°	586.3	586.4	593.9	601.4	610.9	628.1	656.2	692.9	760.3	859.7	995.5
50°	553.4	548.8	554.1	560.0	570.0	581.9	600.5	635.0	680.1	760.4	873.9
52.5°	513.1	513.2	518.0	520.2	529.1	541.1	558.0	581.9	622.8	685.6	778.9
55°	455.2	458.5	461.2	465.1	473.1	481.7	495.0	510.9	542.8	589.9	658.9
57.5°	400.8	401.8	404.5	412.1	417.1	425.1	437.7	452.1	472.8	507.7	559.6
60°	363.6	363.6	368.9	372.2	378.9	386.8	396.8	410.7	429.3	457.8	499.7
62.5°	329.7	329.1	331.2	336.7	341.7	349.2	359.1	370.9	388.4	413.8	448.2
65°	280.0	278.7	282.7	284.0	289.3	296.6	304.6	317.2	331.1	349.7	380.2
67.5°	232.2	233.8	236.0	238.5	241.4	249.1	254.4	263.3	275.1	290.5	311.2
70°	205.7	205.7	205.7	207.7	211.7	215.7	221.0	228.3	239.5	252.8	271.4
72.5°	176.0	178.1	180.2	179.0	184.1	186.5	192.8	196.9	207.7	216.2	232.6
75°	138.0	138.0	138.0	141.3	143.3	145.3	149.3	153.3	158.6	169.2	177.8
77.5°	103.0	102.7	103.4	104.2	106.3	108.7	109.9	113.5	118.4	123.3	130.6
80°	79.6	81.0	81.6	82.9	82.9	84.3	84.9	89.6	92.9	96.2	100.9
82.5°	61.6	61.8	62.0	62.2	62.8	63.6	65.3	66.8	67.9	70.7	74.3
85°	35.8	35.2	35.2	36.5	35.8	35.8	37.2	38.5	38.5	39.1	41.1
87.5°	20.6	20.5	21.0	20.5	20.4	21.0	21.1	20.6	21.2	21.8	21.4
90°	33.9	33.7	33.5	33.3	33.0	33.2	33.6	34.0	34.5	34.9	30.0
92.5°	32.3	32.3	32.2	32.2	32.2	32.1	32.0	31.9	31.8	31.7	30.6
95°	61.9	62.3	62.8	63.2	63.6	63.9	63.9	63.9	63.9	63.9	63.4
97.5°	107.2	107.2	107.3	107.3	107.4	107.4	107.4	107.4	107.4	107.4	106.5
100°	136.7	136.9	137.2	137.4	137.6	137.7	137.7	137.7	137.7	137.7	137.1
102.5°	170.3	170.5	170.7	170.9	171.1	171.2	171.0	170.8	170.6	170.5	169.6
105°	221.5	221.5	221.5	221.5	221.5	221.3	220.9	220.4	220.0	219.5	219.1
107.5°	269.8	270.9	271.9	272.9	273.9	274.3	274.2	274.0	273.8	273.6	273.6
110°	307.4	308.0	308.7	309.4	310.0	310.4	310.4	310.4	310.4	310.4	310.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	343.3	343.8	344.3	344.8	345.2	345.8	346.3	346.8	347.4	347.9	348.1
115°	399.2	399.8	400.5	401.2	401.8	402.3	402.5	402.7	403.0	403.2	403.6
117.5°	452.5	453.1	453.8	454.5	455.1	455.7	456.3	456.8	457.3	457.9	459.1
120°	490.0	490.7	491.3	492.0	492.7	493.0	493.0	493.0	493.0	493.0	494.8
122.5°	526.7	527.2	527.7	528.2	528.7	529.2	529.7	530.2	530.8	531.3	532.6
125°	582.8	583.0	583.2	583.5	583.7	584.1	584.8	585.5	586.1	586.8	587.5
127.5°	633.9	634.6	635.3	636.0	636.7	637.5	638.3	639.1	639.9	640.7	641.5
130°	670.6	671.5	672.4	673.3	674.2	674.8	675.3	675.7	676.2	676.6	677.1
132.5°	705.8	706.5	707.2	707.9	708.6	709.4	710.4	711.4	712.4	713.3	713.2
135°	760.4	761.1	761.8	762.4	763.1	763.5	763.8	764.0	764.2	764.4	764.0
137.5°	809.9	810.8	811.7	812.6	813.5	814.0	814.2	814.4	814.6	814.7	814.2
140°	844.3	845.2	846.0	846.9	847.8	848.3	848.3	848.3	848.3	848.3	847.2
142.5°	875.4	876.3	877.2	878.1	879.0	879.3	879.1	879.0	878.8	878.6	877.8
145°	922.1	923.0	923.9	924.8	925.7	926.0	925.8	925.5	925.3	925.1	923.8
147.5°	963.8	964.7	965.5	966.4	967.2	967.4	966.9	966.4	965.9	965.4	964.5
150°	991.0	991.6	992.3	993.0	993.6	993.6	993.0	992.3	991.6	991.0	990.1
152.5°	1016.5	1017.4	1018.2	1019.0	1019.9	1019.9	1019.0	1018.2	1017.4	1016.5	1015.4
155°	1050.8	1051.5	1052.2	1052.8	1053.5	1053.3	1052.2	1051.1	1050.0	1048.8	1048.2
157.5°	1080.4	1081.4	1082.5	1083.6	1084.6	1084.4	1082.9	1081.4	1079.9	1078.4	1078.0
160°	1098.7	1099.6	1100.5	1101.4	1102.3	1102.1	1100.7	1099.4	1098.1	1096.7	1096.5
162.5°	1114.7	1115.8	1116.8	1117.9	1119.0	1118.7	1117.2	1115.7	1114.2	1112.7	1112.5
165°	1135.7	1136.8	1137.9	1139.0	1140.1	1139.9	1138.3	1136.8	1135.2	1133.7	1133.7
167.5°	1152.8	1154.0	1155.1	1156.3	1157.4	1157.2	1155.7	1154.1	1152.6	1151.0	1151.1
170°	1161.6	1162.9	1164.3	1165.6	1166.9	1166.8	1165.3	1163.7	1162.2	1160.6	1160.8
172.5°	1168.8	1170.1	1171.5	1172.8	1174.1	1174.0	1172.5	1170.9	1169.4	1167.8	1168.0
175°	1176.6	1177.9	1179.2	1180.6	1181.9	1181.8	1180.2	1178.7	1177.1	1175.6	1176.0
177.5°	1180.2	1181.2	1182.3	1183.4	1184.4	1184.4	1183.4	1182.3	1181.2	1180.2	1180.5
180°	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1771.7	1767.4	1764.8	1755.2	1746.7	1738.2	1735.6	1736.6	1725.0	1713.8	1709.0
5°	1840.7	1827.4	1814.8	1796.9	1775.7	1752.4	1740.5	1731.2	1708.0	1682.8	1668.2
7.5°	1902.5	1883.5	1859.3	1825.6	1794.6	1758.1	1734.9	1714.3	1680.4	1644.8	1623.0
10°	1940.2	1914.3	1883.1	1842.0	1804.2	1759.7	1728.5	1697.4	1657.5	1615.1	1588.5
12.5°	1972.6	1937.7	1907.0	1854.2	1809.5	1753.9	1716.9	1672.9	1631.0	1580.6	1554.6
15°	2049.7	1985.3	1926.9	1867.2	1812.1	1734.5	1693.4	1634.3	1579.2	1516.9	1487.0
17.5°	2109.3	2037.0	1945.0	1869.1	1804.8	1718.9	1658.5	1587.7	1522.6	1451.3	1410.7
20°	2143.3	2060.3	1961.4	1871.2	1794.2	1696.0	1630.3	1558.0	1481.7	1401.4	1357.6
22.5°	2163.4	2076.2	1978.4	1863.2	1773.0	1677.4	1594.8	1515.5	1438.2	1351.5	1305.6
25°	2169.8	2090.2	1986.7	1856.6	1746.5	1638.3	1538.8	1461.8	1368.2	1287.3	1220.3
27.5°	2138.2	2081.1	1981.6	1844.1	1715.8	1589.3	1478.4	1391.2	1292.5	1204.6	1137.2
30°	2099.5	2066.3	1969.4	1831.4	1691.4	1555.4	1433.3	1334.4	1236.2	1147.3	1078.3
32.5°	2039.5	2032.3	1947.1	1813.3	1665.4	1512.4	1386.0	1286.1	1177.3	1089.9	1024.1
35°	1921.6	1953.5	1899.7	1773.0	1616.4	1451.2	1314.5	1200.4	1087.6	1003.9	942.2
37.5°	1763.7	1842.8	1828.7	1713.9	1550.3	1384.6	1233.7	1114.4	1006.9	922.5	861.9
40°	1654.9	1755.7	1770.3	1668.8	1503.6	1333.1	1173.2	1054.4	949.5	872.6	811.5
42.5°	1538.1	1655.9	1696.0	1614.7	1452.6	1278.9	1119.0	996.0	892.2	817.4	763.2
45°	1342.4	1498.3	1570.6	1524.2	1367.6	1189.7	1025.2	900.4	806.2	735.9	694.1
47.5°	1159.3	1329.7	1427.0	1410.6	1272.9	1096.8	934.1	814.4	722.7	666.6	629.2
50°	1029.8	1205.0	1322.4	1327.8	1205.0	1030.5	867.3	754.5	670.2	617.8	587.2
52.5°	917.3	1084.5	1212.6	1240.7	1129.1	961.5	807.3	695.0	620.8	572.6	545.3
55°	770.4	911.7	1053.7	1105.5	1015.9	856.6	714.0	615.1	545.4	512.3	488.4
57.5°	640.5	758.3	889.4	946.6	891.4	755.1	621.3	535.5	478.9	449.9	431.6
60°	572.0	664.9	781.7	850.0	802.2	680.8	564.0	482.4	436.0	410.1	392.8
62.5°	508.3	590.6	689.3	751.8	725.8	611.3	506.7	434.6	394.5	370.3	357.8
65°	419.4	484.4	560.7	618.4	601.2	514.2	428.7	366.9	335.1	315.8	305.9
67.5°	345.3	392.3	445.2	495.8	481.9	420.3	351.5	303.5	279.8	263.2	257.2
70°	298.6	334.4	381.5	422.0	410.7	360.3	305.9	264.8	244.2	230.3	224.3
72.5°	254.0	283.5	319.4	352.5	344.9	303.0	257.6	226.5	210.7	197.9	193.0
75°	191.8	214.3	236.2	258.1	256.1	223.6	197.1	173.2	160.6	150.6	148.6
77.5°	141.6	154.2	169.1	182.1	178.5	159.9	139.1	125.4	116.1	109.5	108.4
80°	108.2	115.5	126.1	135.4	130.7	122.8	106.2	96.2	89.6	82.9	80.3
82.5°	78.4	85.7	92.1	97.1	93.6	86.1	75.9	69.1	65.2	60.6	59.6
85°	41.1	45.1	47.8	49.1	47.8	43.1	38.5	35.8	32.5	30.5	29.9
87.5°	21.0	20.0	19.0	19.3	17.2	16.7	14.0	11.9	11.9	11.9	11.4
90°	25.2	20.3	15.4	11.6	9.0	6.3	3.7	1.0	3.7	6.3	9.0
92.5°	29.4	28.3	27.1	25.6	23.6	21.7	19.7	17.8	19.7	21.7	23.6
95°	63.0	62.5	62.1	60.8	58.5	56.3	54.1	51.9	54.1	56.3	58.5
97.5°	105.7	104.9	104.0	102.6	100.7	98.7	96.8	94.8	96.8	98.7	100.7
100°	136.4	135.7	135.1	133.8	132.1	130.3	128.5	126.7	128.5	130.3	132.1
102.5°	168.8	167.9	167.1	165.9	164.5	163.1	161.7	160.3	161.7	163.1	164.5
105°	218.7	218.2	217.8	217.2	216.6	215.9	215.2	214.6	215.2	215.9	216.6
107.5°	273.6	273.6	273.6	273.2	272.2	271.2	270.2	269.2	270.2	271.2	272.2
110°	310.4	310.4	310.4	309.7	308.4	307.0	305.7	304.4	305.7	307.0	308.4



TEST NUMBER: P331403

CATALOG NUMBER: SA2XXDIP-C865D925U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	348.2	348.4	348.6	348.0	346.7	345.4	344.0	342.7	344.0	345.4	346.7
115°	404.1	404.5	404.9	404.5	403.2	401.8	400.5	399.2	400.5	401.8	403.2
117.5°	460.3	461.6	462.8	462.6	460.8	459.0	457.2	455.5	457.2	459.0	460.8
120°	496.5	498.3	500.1	500.1	498.3	496.5	494.8	493.0	494.8	496.5	498.3
122.5°	533.8	535.0	536.3	535.8	533.7	531.6	529.4	527.3	529.4	531.6	533.7
125°	588.1	588.8	589.5	588.8	586.8	584.8	582.8	580.8	582.8	584.8	586.8
127.5°	642.3	643.1	643.9	643.0	640.5	638.0	635.4	632.9	635.4	638.0	640.5
130°	677.5	677.9	678.4	677.2	674.3	671.4	668.5	665.6	668.5	671.4	674.3
132.5°	713.2	713.1	713.0	711.8	709.4	707.1	704.7	702.4	704.7	707.1	709.4
135°	763.5	763.1	762.7	761.2	758.8	756.3	753.9	751.5	753.9	756.3	758.8
137.5°	813.6	813.0	812.4	811.1	809.1	807.1	805.1	803.2	805.1	807.1	809.1
140°	846.0	844.9	843.8	842.3	840.3	838.3	836.3	834.3	836.3	838.3	840.3
142.5°	877.1	876.3	875.6	874.2	872.2	870.2	868.2	866.2	868.2	870.2	872.2
145°	922.4	921.1	919.8	918.3	916.8	915.2	913.7	912.1	913.7	915.2	916.8
147.5°	963.6	962.8	961.9	960.5	958.6	956.8	954.9	953.0	954.9	956.8	958.6
150°	989.2	988.3	987.4	986.3	985.0	983.6	982.3	981.0	982.3	983.6	985.0
152.5°	1014.4	1013.3	1012.3	1011.1	1009.7	1008.4	1007.1	1005.7	1007.1	1008.4	1009.7
155°	1047.5	1046.9	1046.2	1045.5	1044.9	1044.2	1043.5	1042.9	1043.5	1044.2	1044.9
157.5°	1077.6	1077.2	1076.8	1076.4	1075.9	1075.5	1075.0	1074.6	1075.0	1075.5	1075.9
160°	1096.3	1096.1	1095.9	1095.5	1095.1	1094.6	1094.2	1093.8	1094.2	1094.6	1095.1
162.5°	1112.3	1112.1	1111.8	1111.7	1111.6	1111.5	1111.4	1111.3	1111.4	1111.5	1111.6
165°	1133.7	1133.7	1133.7	1133.8	1134.0	1134.2	1134.5	1134.7	1134.5	1134.2	1134.0
167.5°	1151.1	1151.2	1151.2	1151.6	1152.2	1152.9	1153.6	1154.2	1153.6	1152.9	1152.2
170°	1161.1	1161.3	1161.5	1161.9	1162.6	1163.3	1163.9	1164.6	1163.9	1163.3	1162.6
172.5°	1168.2	1168.5	1168.7	1169.1	1169.8	1170.5	1171.1	1171.8	1171.1	1170.5	1169.8
175°	1176.5	1176.9	1177.4	1177.9	1178.6	1179.2	1179.9	1180.6	1179.9	1179.2	1178.6
177.5°	1180.9	1181.2	1181.6	1182.0	1182.6	1183.1	1183.6	1184.2	1183.6	1183.1	1182.6
180°	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6



TEST NUMBER: P331403

CATALOG NUMBER: SA2XXDIP-C865D925U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1703.7	1700.5	1689.4	1683.6	1674.0	1665.0	1659.1	1661.8	1663.9	1662.8	1661.3
5°	1654.9	1642.3	1623.0	1606.4	1594.5	1572.6	1563.3	1558.7	1554.7	1550.0	1545.4
7.5°	1596.8	1576.9	1549.2	1525.6	1503.3	1476.1	1460.6	1451.3	1441.8	1431.3	1422.0
10°	1555.4	1527.5	1498.3	1465.1	1438.6	1414.0	1392.1	1377.5	1364.3	1351.6	1342.4
12.5°	1511.8	1479.7	1443.6	1398.2	1369.0	1333.9	1330.5	1304.8	1284.1	1276.3	1265.4
15°	1442.6	1397.4	1351.6	1297.9	1274.7	1242.8	1222.9	1203.0	1185.1	1172.5	1169.2
17.5°	1363.9	1305.5	1259.9	1221.3	1183.2	1150.6	1132.3	1116.4	1101.6	1084.8	1082.5
20°	1303.9	1253.4	1203.7	1169.8	1130.7	1097.5	1074.9	1059.0	1046.4	1036.5	1027.8
22.5°	1247.1	1191.9	1146.3	1109.3	1070.7	1043.9	1026.1	1010.7	1000.2	989.2	981.1
25°	1155.9	1112.8	1063.0	1021.2	989.3	972.1	957.5	944.2	937.6	930.3	921.0
27.5°	1076.1	1028.2	981.7	949.3	921.3	906.0	895.7	886.6	880.4	876.1	870.8
30°	1019.9	971.4	934.9	903.1	879.9	864.6	858.0	852.7	845.4	842.7	840.1
32.5°	965.7	922.1	890.9	863.3	841.1	831.2	825.1	820.3	814.6	811.9	806.6
35°	889.2	852.7	822.1	806.9	789.0	780.3	775.7	769.1	763.7	761.1	760.4
37.5°	817.1	785.4	765.3	745.7	738.1	732.8	726.5	721.9	720.3	719.9	719.3
40°	770.4	744.5	726.6	710.7	707.3	699.4	694.1	690.1	690.1	690.8	690.1
42.5°	727.9	704.7	688.9	675.1	671.2	666.5	661.2	660.9	662.0	664.2	662.0
45°	663.5	647.0	635.7	629.0	621.7	617.1	616.4	618.4	619.1	619.8	621.7
47.5°	604.4	593.3	583.1	575.8	572.6	571.8	571.0	574.5	577.7	578.9	581.9
50°	569.3	556.7	548.1	543.4	540.8	539.5	540.8	544.8	547.4	550.7	552.7
52.5°	530.0	521.1	515.2	511.6	510.5	511.3	511.6	516.1	520.4	521.5	522.5
55°	475.8	469.1	467.8	461.8	464.5	463.8	467.1	469.8	473.8	477.8	478.4
57.5°	421.6	416.3	412.7	413.3	414.1	417.0	419.8	424.4	428.7	432.9	433.3
60°	385.5	382.9	380.9	380.9	382.2	386.2	389.5	394.1	396.8	399.5	401.4
62.5°	352.6	350.0	348.0	349.0	352.5	354.9	358.7	361.2	363.9	366.5	367.5
65°	300.6	299.3	301.3	302.6	303.2	306.6	311.2	313.2	315.8	317.2	321.8
67.5°	252.7	252.9	252.7	254.5	258.4	259.2	263.6	268.2	268.7	271.3	274.3
70°	220.3	221.6	223.0	224.3	227.6	228.9	232.2	234.2	236.9	238.9	240.9
72.5°	190.6	190.8	192.2	191.9	194.7	197.6	200.4	202.4	205.0	207.6	209.5
75°	146.6	146.6	148.0	148.6	152.0	155.3	154.6	155.9	158.6	161.2	162.6
77.5°	107.1	105.6	107.1	107.8	108.8	111.6	112.1	114.0	117.0	116.1	117.6
80°	81.6	79.6	81.6	82.3	82.3	85.6	85.6	86.9	88.9	86.9	88.9
82.5°	58.3	57.3	58.8	58.9	60.0	60.1	61.2	61.4	63.4	62.5	63.4
85°	29.2	28.5	29.2	28.5	29.2	29.9	29.9	29.2	29.2	30.5	28.5
87.5°	11.4	11.6	12.0	13.0	13.4	13.9	13.3	13.2	13.1	11.9	11.9
90°	11.6	15.4	20.3	25.2	30.0	34.9	34.5	34.0	33.6	33.2	33.0
92.5°	25.6	27.1	28.3	29.4	30.6	31.7	31.8	31.9	32.0	32.1	32.2
95°	60.8	62.1	62.5	63.0	63.4	63.9	63.9	63.9	63.9	63.9	63.6
97.5°	102.6	104.0	104.9	105.7	106.5	107.4	107.4	107.4	107.4	107.4	107.4
100°	133.8	135.1	135.7	136.4	137.1	137.7	137.7	137.7	137.7	137.7	137.6
102.5°	165.9	167.1	167.9	168.8	169.6	170.5	170.6	170.8	171.0	171.2	171.1
105°	217.2	217.8	218.2	218.7	219.1	219.5	220.0	220.4	220.9	221.3	221.5
107.5°	273.2	273.6	273.6	273.6	273.6	273.6	273.8	274.0	274.2	274.3	273.9
110°	309.7	310.4	310.4	310.4	310.4	310.4	310.4	310.4	310.4	310.4	310.0



TEST NUMBER: P331403

CATALOG NUMBER: SA2XXDIP-C865D925U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	348.0	348.6	348.4	348.2	348.1	347.9	347.4	346.8	346.3	345.8	345.2
115°	404.5	404.9	404.5	404.1	403.6	403.2	403.0	402.7	402.5	402.3	401.8
117.5°	462.6	462.8	461.6	460.3	459.1	457.9	457.3	456.8	456.3	455.7	455.1
120°	500.1	500.1	498.3	496.5	494.8	493.0	493.0	493.0	493.0	493.0	492.7
122.5°	535.8	536.3	535.0	533.8	532.6	531.3	530.8	530.2	529.7	529.2	528.7
125°	588.8	589.5	588.8	588.1	587.5	586.8	586.1	585.5	584.8	584.1	583.7
127.5°	643.0	643.9	643.1	642.3	641.5	640.7	639.9	639.1	638.3	637.5	636.7
130°	677.2	678.4	677.9	677.5	677.1	676.6	676.2	675.7	675.3	674.8	674.2
132.5°	711.8	713.0	713.1	713.2	713.2	713.3	712.4	711.4	710.4	709.4	708.6
135°	761.2	762.7	763.1	763.5	764.0	764.4	764.2	764.0	763.8	763.5	763.1
137.5°	811.1	812.4	813.0	813.6	814.2	814.7	814.6	814.4	814.2	814.0	813.5
140°	842.3	843.8	844.9	846.0	847.2	848.3	848.3	848.3	848.3	848.3	847.8
142.5°	874.2	875.6	876.3	877.1	877.8	878.6	878.8	879.0	879.1	879.3	879.0
145°	918.3	919.8	921.1	922.4	923.8	925.1	925.3	925.5	925.8	926.0	925.7
147.5°	960.5	961.9	962.8	963.6	964.5	965.4	965.9	966.4	966.9	967.4	967.2
150°	986.3	987.4	988.3	989.2	990.1	991.0	991.6	992.3	993.0	993.6	993.6
152.5°	1011.1	1012.3	1013.3	1014.4	1015.4	1016.5	1017.4	1018.2	1019.0	1019.9	1019.9
155°	1045.5	1046.2	1046.9	1047.5	1048.2	1048.8	1050.0	1051.1	1052.2	1053.3	1053.5
157.5°	1076.4	1076.8	1077.2	1077.6	1078.0	1078.4	1079.9	1081.4	1082.9	1084.4	1084.6
160°	1095.5	1095.9	1096.1	1096.3	1096.5	1096.7	1098.1	1099.4	1100.7	1102.1	1102.3
162.5°	1111.7	1111.8	1112.1	1112.3	1112.5	1112.7	1114.2	1115.7	1117.2	1118.7	1119.0
165°	1133.8	1133.7	1133.7	1133.7	1133.7	1133.7	1135.2	1136.8	1138.3	1139.9	1140.1
167.5°	1151.6	1151.2	1151.2	1151.1	1151.1	1151.0	1152.6	1154.1	1155.7	1157.2	1157.4
170°	1161.9	1161.5	1161.3	1161.1	1160.8	1160.6	1162.2	1163.7	1165.3	1166.8	1166.9
172.5°	1169.1	1168.7	1168.5	1168.2	1168.0	1167.8	1169.4	1170.9	1172.5	1174.0	1174.1
175°	1177.9	1177.4	1176.9	1176.5	1176.0	1175.6	1177.1	1178.7	1180.2	1181.8	1181.9
177.5°	1182.0	1181.6	1181.2	1180.9	1180.5	1180.2	1181.2	1182.3	1183.4	1184.4	1184.4
180°	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6



TEST NUMBER: P331403

CATALOG NUMBER: SA2XXDIP-C865D925U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1655.9	1654.9	1654.9	1650.1	1654.9	1654.9	1655.9	1661.3	1662.8	1663.9	1661.8
5°	1536.1	1534.1	1530.8	1534.1	1530.8	1534.1	1536.1	1545.4	1550.0	1554.7	1558.7
7.5°	1417.6	1409.6	1408.4	1400.6	1408.4	1409.6	1417.6	1422.0	1431.3	1441.8	1451.3
10°	1331.1	1325.8	1325.1	1312.5	1325.1	1325.8	1331.1	1342.4	1351.6	1364.3	1377.5
12.5°	1265.3	1252.5	1255.0	1247.7	1255.0	1252.5	1265.3	1265.4	1276.3	1284.1	1304.8
15°	1151.3	1151.3	1148.6	1137.3	1148.6	1151.3	1151.3	1169.2	1172.5	1185.1	1203.0
17.5°	1069.4	1068.0	1061.7	1064.9	1061.7	1068.0	1069.4	1082.5	1084.8	1101.6	1116.4
20°	1020.5	1016.6	1008.6	1008.6	1008.6	1016.6	1020.5	1027.8	1036.5	1046.4	1059.0
22.5°	974.4	974.1	965.6	968.2	965.6	974.1	974.4	981.1	989.2	1000.2	1010.7
25°	920.3	915.0	911.1	913.0	911.1	915.0	920.3	921.0	930.3	937.6	944.2
27.5°	869.1	866.2	865.9	860.5	865.9	866.2	869.1	870.8	876.1	880.4	886.6
30°	839.4	832.8	834.1	830.8	834.1	832.8	839.4	840.1	842.7	845.4	852.7
32.5°	805.4	803.0	801.7	798.9	801.7	803.0	805.4	806.6	811.9	814.6	820.3
35°	759.1	759.8	756.4	757.8	756.4	759.8	759.1	760.4	761.1	763.7	769.1
37.5°	718.6	720.7	719.2	719.6	719.2	720.7	718.6	719.3	719.9	720.3	721.9
40°	692.1	692.1	692.1	694.1	692.1	692.1	692.1	690.1	690.8	690.1	690.1
42.5°	666.6	665.5	664.5	664.3	664.5	665.5	666.6	662.0	664.2	662.0	660.9
45°	623.1	625.1	625.7	622.4	625.7	625.1	623.1	621.7	619.8	619.1	618.4
47.5°	583.7	583.9	583.7	586.6	583.7	583.9	583.7	581.9	578.9	577.7	574.5
50°	556.1	554.7	556.1	554.7	556.1	554.7	556.1	552.7	550.7	547.4	544.8
52.5°	526.9	527.1	526.3	526.1	526.3	527.1	526.9	522.5	521.5	520.4	516.1
55°	481.1	482.4	481.7	481.7	481.7	482.4	481.1	478.4	477.8	473.8	469.8
57.5°	433.7	434.9	435.8	432.9	435.8	434.9	433.7	433.3	432.9	428.7	424.4
60°	400.8	404.1	403.4	402.1	403.4	404.1	400.8	401.4	399.5	396.8	394.1
62.5°	370.5	371.7	371.6	371.3	371.6	371.7	370.5	367.5	366.5	363.9	361.2
65°	323.8	325.1	323.1	325.1	323.1	325.1	323.8	321.8	317.2	315.8	313.2
67.5°	273.5	273.9	275.4	276.3	275.4	273.9	273.5	274.3	271.3	268.7	268.2
70°	242.2	241.5	243.5	245.5	243.5	241.5	242.2	240.9	238.9	236.9	234.2
72.5°	209.3	210.7	210.1	211.5	210.1	210.7	209.3	209.5	207.6	205.0	202.4
75°	161.2	163.2	162.6	164.6	162.6	163.2	161.2	162.6	161.2	158.6	155.9
77.5°	116.5	116.8	116.5	117.6	116.5	116.8	116.5	117.6	116.1	117.0	114.0
80°	88.9	87.6	86.3	88.9	86.3	87.6	88.9	88.9	86.9	88.9	86.9
82.5°	61.8	62.6	61.3	61.3	61.3	62.6	61.8	63.4	62.5	63.4	61.4
85°	28.5	27.9	26.5	26.5	26.5	27.9	28.5	28.5	30.5	29.2	29.2
87.5°	12.0	11.5	11.5	11.0	11.5	11.5	12.0	11.9	11.9	13.1	13.2
90°	33.3	33.5	33.7	33.9	33.7	33.5	33.3	33.0	33.2	33.6	34.0
92.5°	32.2	32.2	32.3	32.3	32.3	32.2	32.2	32.2	32.1	32.0	31.9
95°	63.2	62.8	62.3	61.9	62.3	62.8	63.2	63.6	63.9	63.9	63.9
97.5°	107.3	107.3	107.2	107.2	107.2	107.3	107.3	107.4	107.4	107.4	107.4
100°	137.4	137.2	136.9	136.7	136.9	137.2	137.4	137.6	137.7	137.7	137.7
102.5°	170.9	170.7	170.5	170.3	170.5	170.7	170.9	171.1	171.2	171.0	170.8
105°	221.5	221.5	221.5	221.5	221.5	221.5	221.5	221.5	221.3	220.9	220.4
107.5°	272.9	271.9	270.9	269.8	270.9	271.9	272.9	273.9	274.3	274.2	274.0
110°	309.4	308.7	308.0	307.4	308.0	308.7	309.4	310.0	310.4	310.4	310.4



TEST NUMBER: P331403

CATALOG NUMBER: SA2XXDIP-C865D925U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	344.8	344.3	343.8	343.3	343.8	344.3	344.8	345.2	345.8	346.3	346.8
115°	401.2	400.5	399.8	399.2	399.8	400.5	401.2	401.8	402.3	402.5	402.7
117.5°	454.5	453.8	453.1	452.5	453.1	453.8	454.5	455.1	455.7	456.3	456.8
120°	492.0	491.3	490.7	490.0	490.7	491.3	492.0	492.7	493.0	493.0	493.0
122.5°	528.2	527.7	527.2	526.7	527.2	527.7	528.2	528.7	529.2	529.7	530.2
125°	583.5	583.2	583.0	582.8	583.0	583.2	583.5	583.7	584.1	584.8	585.5
127.5°	636.0	635.3	634.6	633.9	634.6	635.3	636.0	636.7	637.5	638.3	639.1
130°	673.3	672.4	671.5	670.6	671.5	672.4	673.3	674.2	674.8	675.3	675.7
132.5°	707.9	707.2	706.5	705.8	706.5	707.2	707.9	708.6	709.4	710.4	711.4
135°	762.4	761.8	761.1	760.4	761.1	761.8	762.4	763.1	763.5	763.8	764.0
137.5°	812.6	811.7	810.8	809.9	810.8	811.7	812.6	813.5	814.0	814.2	814.4
140°	846.9	846.0	845.2	844.3	845.2	846.0	846.9	847.8	848.3	848.3	848.3
142.5°	878.1	877.2	876.3	875.4	876.3	877.2	878.1	879.0	879.3	879.1	879.0
145°	924.8	923.9	923.0	922.1	923.0	923.9	924.8	925.7	926.0	925.8	925.5
147.5°	966.4	965.5	964.7	963.8	964.7	965.5	966.4	967.2	967.4	966.9	966.4
150°	993.0	992.3	991.6	991.0	991.6	992.3	993.0	993.6	993.6	993.0	992.3
152.5°	1019.0	1018.2	1017.4	1016.5	1017.4	1018.2	1019.0	1019.9	1019.9	1019.0	1018.2
155°	1052.8	1052.2	1051.5	1050.8	1051.5	1052.2	1052.8	1053.5	1053.3	1052.2	1051.1
157.5°	1083.6	1082.5	1081.4	1080.4	1081.4	1082.5	1083.6	1084.6	1084.4	1082.9	1081.4
160°	1101.4	1100.5	1099.6	1098.7	1099.6	1100.5	1101.4	1102.3	1102.1	1100.7	1099.4
162.5°	1117.9	1116.8	1115.8	1114.7	1115.8	1116.8	1117.9	1119.0	1118.7	1117.2	1115.7
165°	1139.0	1137.9	1136.8	1135.7	1136.8	1137.9	1139.0	1140.1	1139.9	1138.3	1136.8
167.5°	1156.3	1155.1	1154.0	1152.8	1154.0	1155.1	1156.3	1157.4	1157.2	1155.7	1154.1
170°	1165.6	1164.3	1162.9	1161.6	1162.9	1164.3	1165.6	1166.9	1166.8	1165.3	1163.7
172.5°	1172.8	1171.5	1170.1	1168.8	1170.1	1171.5	1172.8	1174.1	1174.0	1172.5	1170.9
175°	1180.6	1179.2	1177.9	1176.6	1177.9	1179.2	1180.6	1181.9	1181.8	1180.2	1178.7
177.5°	1183.4	1182.3	1181.2	1180.2	1181.2	1182.3	1183.4	1184.4	1184.4	1183.4	1182.3
180°	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6



TEST NUMBER: P331403

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1659.1	1665.0	1674.0	1683.6	1689.4	1700.5	1703.7	1709.0	1713.8	1725.0	1736.6
5°	1563.3	1572.6	1594.5	1606.4	1623.0	1642.3	1654.9	1668.2	1682.8	1708.0	1731.2
7.5°	1460.6	1476.1	1503.3	1525.6	1549.2	1576.9	1596.8	1623.0	1644.8	1680.4	1714.3
10°	1392.1	1414.0	1438.6	1465.1	1498.3	1527.5	1555.4	1588.5	1615.1	1657.5	1697.4
12.5°	1330.5	1333.9	1369.0	1398.2	1443.6	1479.7	1511.8	1554.6	1580.6	1631.0	1672.9
15°	1222.9	1242.8	1274.7	1297.9	1351.6	1397.4	1442.6	1487.0	1516.9	1579.2	1634.3
17.5°	1132.3	1150.6	1183.2	1221.3	1259.9	1305.5	1363.9	1410.7	1451.3	1522.6	1587.7
20°	1074.9	1097.5	1130.7	1169.8	1203.7	1253.4	1303.9	1357.6	1401.4	1481.7	1558.0
22.5°	1026.1	1043.9	1070.7	1109.3	1146.3	1191.9	1247.1	1305.6	1351.5	1438.2	1515.5
25°	957.5	972.1	989.3	1021.2	1063.0	1112.8	1155.9	1220.3	1287.3	1368.2	1461.8
27.5°	895.7	906.0	921.3	949.3	981.7	1028.2	1076.1	1137.2	1204.6	1292.5	1391.2
30°	858.0	864.6	879.9	903.1	934.9	971.4	1019.9	1078.3	1147.3	1236.2	1334.4
32.5°	825.1	831.2	841.1	863.3	890.9	922.1	965.7	1024.1	1089.9	1177.3	1286.1
35°	775.7	780.3	789.0	806.9	822.1	852.7	889.2	942.2	1003.9	1087.6	1200.4
37.5°	726.5	732.8	738.1	745.7	765.3	785.4	817.1	861.9	922.5	1006.9	1114.4
40°	694.1	699.4	707.3	710.7	726.6	744.5	770.4	811.5	872.6	949.5	1054.4
42.5°	661.2	666.5	671.2	675.1	688.9	704.7	727.9	763.2	817.4	892.2	996.0
45°	616.4	617.1	621.7	629.0	635.7	647.0	663.5	694.1	735.9	806.2	900.4
47.5°	571.0	571.8	572.6	575.8	583.1	593.3	604.4	629.2	666.6	722.7	814.4
50°	540.8	539.5	540.8	543.4	548.1	556.7	569.3	587.2	617.8	670.2	754.5
52.5°	511.6	511.3	510.5	511.6	515.2	521.1	530.0	545.3	572.6	620.8	695.0
55°	467.1	463.8	464.5	461.8	467.8	469.1	475.8	488.4	512.3	545.4	615.1
57.5°	419.8	417.0	414.1	413.3	412.7	416.3	421.6	431.6	449.9	478.9	535.5
60°	389.5	386.2	382.2	380.9	380.9	382.9	385.5	392.8	410.1	436.0	482.4
62.5°	358.7	354.9	352.5	349.0	348.0	350.0	352.6	357.8	370.3	394.5	434.6
65°	311.2	306.6	303.2	302.6	301.3	299.3	300.6	305.9	315.8	335.1	366.9
67.5°	263.6	259.2	258.4	254.5	252.7	252.9	252.7	257.2	263.2	279.8	303.5
70°	232.2	228.9	227.6	224.3	223.0	221.6	220.3	224.3	230.3	244.2	264.8
72.5°	200.4	197.6	194.7	191.9	192.2	190.8	190.6	193.0	197.9	210.7	226.5
75°	154.6	155.3	152.0	148.6	148.0	146.6	146.6	148.6	150.6	160.6	173.2
77.5°	112.1	111.6	108.8	107.8	107.1	105.6	107.1	108.4	109.5	116.1	125.4
80°	85.6	85.6	82.3	82.3	81.6	79.6	81.6	80.3	82.9	89.6	96.2
82.5°	61.2	60.1	60.0	58.9	58.8	57.3	58.3	59.6	60.6	65.2	69.1
85°	29.9	29.9	29.2	28.5	29.2	28.5	29.2	29.9	30.5	32.5	35.8
87.5°	13.3	13.9	13.4	13.0	12.0	11.6	11.4	11.4	11.9	11.9	11.9
90°	34.5	34.9	30.0	25.2	20.3	15.4	11.6	9.0	6.3	3.7	1.0
92.5°	31.8	31.7	30.6	29.4	28.3	27.1	25.6	23.6	21.7	19.7	17.8
95°	63.9	63.9	63.4	63.0	62.5	62.1	60.8	58.5	56.3	54.1	51.9
97.5°	107.4	107.4	106.5	105.7	104.9	104.0	102.6	100.7	98.7	96.8	94.8
100°	137.7	137.7	137.1	136.4	135.7	135.1	133.8	132.1	130.3	128.5	126.7
102.5°	170.6	170.5	169.6	168.8	167.9	167.1	165.9	164.5	163.1	161.7	160.3
105°	220.0	219.5	219.1	218.7	218.2	217.8	217.2	216.6	215.9	215.2	214.6
107.5°	273.8	273.6	273.6	273.6	273.6	273.6	273.2	272.2	271.2	270.2	269.2
110°	310.4	310.4	310.4	310.4	310.4	310.4	309.7	308.4	307.0	305.7	304.4



TEST NUMBER: P331403

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	347.4	347.9	348.1	348.2	348.4	348.6	348.0	346.7	345.4	344.0	342.7
115°	403.0	403.2	403.6	404.1	404.5	404.9	404.5	403.2	401.8	400.5	399.2
117.5°	457.3	457.9	459.1	460.3	461.6	462.8	462.6	460.8	459.0	457.2	455.5
120°	493.0	493.0	494.8	496.5	498.3	500.1	500.1	498.3	496.5	494.8	493.0
122.5°	530.8	531.3	532.6	533.8	535.0	536.3	535.8	533.7	531.6	529.4	527.3
125°	586.1	586.8	587.5	588.1	588.8	589.5	588.8	586.8	584.8	582.8	580.8
127.5°	639.9	640.7	641.5	642.3	643.1	643.9	643.0	640.5	638.0	635.4	632.9
130°	676.2	676.6	677.1	677.5	677.9	678.4	677.2	674.3	671.4	668.5	665.6
132.5°	712.4	713.3	713.2	713.2	713.1	713.0	711.8	709.4	707.1	704.7	702.4
135°	764.2	764.4	764.0	763.5	763.1	762.7	761.2	758.8	756.3	753.9	751.5
137.5°	814.6	814.7	814.2	813.6	813.0	812.4	811.1	809.1	807.1	805.1	803.2
140°	848.3	848.3	847.2	846.0	844.9	843.8	842.3	840.3	838.3	836.3	834.3
142.5°	878.8	878.6	877.8	877.1	876.3	875.6	874.2	872.2	870.2	868.2	866.2
145°	925.3	925.1	923.8	922.4	921.1	919.8	918.3	916.8	915.2	913.7	912.1
147.5°	965.9	965.4	964.5	963.6	962.8	961.9	960.5	958.6	956.8	954.9	953.0
150°	991.6	991.0	990.1	989.2	988.3	987.4	986.3	985.0	983.6	982.3	981.0
152.5°	1017.4	1016.5	1015.4	1014.4	1013.3	1012.3	1011.1	1009.7	1008.4	1007.1	1005.7
155°	1050.0	1048.8	1048.2	1047.5	1046.9	1046.2	1045.5	1044.9	1044.2	1043.5	1042.9
157.5°	1079.9	1078.4	1078.0	1077.6	1077.2	1076.8	1076.4	1075.9	1075.5	1075.0	1074.6
160°	1098.1	1096.7	1096.5	1096.3	1096.1	1095.9	1095.5	1095.1	1094.6	1094.2	1093.8
162.5°	1114.2	1112.7	1112.5	1112.3	1112.1	1111.8	1111.7	1111.6	1111.5	1111.4	1111.3
165°	1135.2	1133.7	1133.7	1133.7	1133.7	1133.7	1133.8	1134.0	1134.2	1134.5	1134.7
167.5°	1152.6	1151.0	1151.1	1151.1	1151.2	1151.2	1151.6	1152.2	1152.9	1153.6	1154.2
170°	1162.2	1160.6	1160.8	1161.1	1161.3	1161.5	1161.9	1162.6	1163.3	1163.9	1164.6
172.5°	1169.4	1167.8	1168.0	1168.2	1168.5	1168.7	1169.1	1169.8	1170.5	1171.1	1171.8
175°	1177.1	1175.6	1176.0	1176.5	1176.9	1177.4	1177.9	1178.6	1179.2	1179.9	1180.6
177.5°	1181.2	1180.2	1180.5	1180.9	1181.2	1181.6	1182.0	1182.6	1183.1	1183.6	1184.2
180°	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6



TEST NUMBER: P331403

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1735.6	1738.2	1746.7	1755.2	1764.8	1767.4	1771.7	1768.0	1766.9	1777.0	1784.4
5°	1740.5	1752.4	1775.7	1796.9	1814.8	1827.4	1840.7	1846.0	1855.9	1869.9	1887.1
7.5°	1734.9	1758.1	1794.6	1825.6	1859.3	1883.5	1902.5	1918.7	1938.4	1964.8	1993.6
10°	1728.5	1759.7	1804.2	1842.0	1883.1	1914.3	1940.2	1965.4	1994.6	2031.1	2068.9
12.5°	1716.9	1753.9	1809.5	1854.2	1907.0	1937.7	1972.6	2027.0	2058.3	2109.2	2162.4
15°	1693.4	1734.5	1812.1	1867.2	1926.9	1985.3	2049.7	2101.5	2153.2	2183.1	2258.1
17.5°	1658.5	1718.9	1804.8	1869.1	1945.0	2037.0	2109.3	2167.9	2227.7	2276.1	2313.7
20°	1630.3	1696.0	1794.2	1871.2	1961.4	2060.3	2143.3	2203.0	2254.7	2295.2	2318.4
22.5°	1594.8	1677.4	1773.0	1863.2	1978.4	2076.2	2163.4	2210.4	2253.7	2273.4	2282.3
25°	1538.8	1638.3	1746.5	1856.6	1986.7	2090.2	2169.8	2198.3	2210.9	2191.7	2159.8
27.5°	1478.4	1589.3	1715.8	1844.1	1981.6	2081.1	2138.2	2133.7	2112.3	2050.1	2000.3
30°	1433.3	1555.4	1691.4	1831.4	1969.4	2066.3	2099.5	2066.3	2017.8	1948.2	1877.2
32.5°	1386.0	1512.4	1665.4	1813.3	1947.1	2032.3	2039.5	1982.4	1907.4	1828.2	1739.7
35°	1314.5	1451.2	1616.4	1773.0	1899.7	1953.5	1921.6	1820.8	1731.9	1623.7	1502.9
37.5°	1233.7	1384.6	1550.3	1713.9	1828.7	1842.8	1763.7	1657.5	1532.1	1405.0	1262.9
40°	1173.2	1333.1	1503.6	1668.8	1770.3	1755.7	1654.9	1538.1	1388.8	1233.5	1101.5
42.5°	1119.0	1278.9	1452.6	1614.7	1696.0	1655.9	1538.1	1394.8	1234.3	1088.1	967.2
45°	1025.2	1189.7	1367.6	1524.2	1570.6	1498.3	1342.4	1183.1	1025.2	903.1	807.5
47.5°	934.1	1096.8	1272.9	1410.6	1427.0	1329.7	1159.3	995.5	859.7	760.3	692.9
50°	867.3	1030.5	1205.0	1327.8	1322.4	1205.0	1029.8	873.9	760.4	680.1	635.0
52.5°	807.3	961.5	1129.1	1240.7	1212.6	1084.5	917.3	778.9	685.6	622.8	581.9
55°	714.0	856.6	1015.9	1105.5	1053.7	911.7	770.4	658.9	589.9	542.8	510.9
57.5°	621.3	755.1	891.4	946.6	889.4	758.3	640.5	559.6	507.7	472.8	452.1
60°	564.0	680.8	802.2	850.0	781.7	664.9	572.0	499.7	457.8	429.3	410.7
62.5°	506.7	611.3	725.8	751.8	689.3	590.6	508.3	448.2	413.8	388.4	370.9
65°	428.7	514.2	601.2	618.4	560.7	484.4	419.4	380.2	349.7	331.1	317.2
67.5°	351.5	420.3	481.9	495.8	445.2	392.3	345.3	311.2	290.5	275.1	263.3
70°	305.9	360.3	410.7	422.0	381.5	334.4	298.6	271.4	252.8	239.5	228.3
72.5°	257.6	303.0	344.9	352.5	319.4	283.5	254.0	232.6	216.2	207.7	196.9
75°	197.1	223.6	256.1	258.1	236.2	214.3	191.8	177.8	169.2	158.6	153.3
77.5°	139.1	159.9	178.5	182.1	169.1	154.2	141.6	130.6	123.3	118.4	113.5
80°	106.2	122.8	130.7	135.4	126.1	115.5	108.2	100.9	96.2	92.9	89.6
82.5°	75.9	86.1	93.6	97.1	92.1	85.7	78.4	74.3	70.7	67.9	66.8
85°	38.5	43.1	47.8	49.1	47.8	45.1	41.1	41.1	39.1	38.5	38.5
87.5°	14.0	16.7	17.2	19.3	19.0	20.0	21.0	21.4	21.8	21.2	20.6
90°	3.7	6.3	9.0	11.6	15.4	20.3	25.2	30.0	34.9	34.5	34.0
92.5°	19.7	21.7	23.6	25.6	27.1	28.3	29.4	30.6	31.7	31.8	31.9
95°	54.1	56.3	58.5	60.8	62.1	62.5	63.0	63.4	63.9	63.9	63.9
97.5°	96.8	98.7	100.7	102.6	104.0	104.9	105.7	106.5	107.4	107.4	107.4
100°	128.5	130.3	132.1	133.8	135.1	135.7	136.4	137.1	137.7	137.7	137.7
102.5°	161.7	163.1	164.5	165.9	167.1	167.9	168.8	169.6	170.5	170.6	170.8
105°	215.2	215.9	216.6	217.2	217.8	218.2	218.7	219.1	219.5	220.0	220.4
107.5°	270.2	271.2	272.2	273.2	273.6	273.6	273.6	273.6	273.6	273.8	274.0
110°	305.7	307.0	308.4	309.7	310.4	310.4	310.4	310.4	310.4	310.4	310.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	344.0	345.4	346.7	348.0	348.6	348.4	348.2	348.1	347.9	347.4	346.8
115°	400.5	401.8	403.2	404.5	404.9	404.5	404.1	403.6	403.2	403.0	402.7
117.5°	457.2	459.0	460.8	462.6	462.8	461.6	460.3	459.1	457.9	457.3	456.8
120°	494.8	496.5	498.3	500.1	500.1	498.3	496.5	494.8	493.0	493.0	493.0
122.5°	529.4	531.6	533.7	535.8	536.3	535.0	533.8	532.6	531.3	530.8	530.2
125°	582.8	584.8	586.8	588.8	589.5	588.8	588.1	587.5	586.8	586.1	585.5
127.5°	635.4	638.0	640.5	643.0	643.9	643.1	642.3	641.5	640.7	639.9	639.1
130°	668.5	671.4	674.3	677.2	678.4	677.9	677.5	677.1	676.6	676.2	675.7
132.5°	704.7	707.1	709.4	711.8	713.0	713.1	713.2	713.2	713.3	712.4	711.4
135°	753.9	756.3	758.8	761.2	762.7	763.1	763.5	764.0	764.4	764.2	764.0
137.5°	805.1	807.1	809.1	811.1	812.4	813.0	813.6	814.2	814.7	814.6	814.4
140°	836.3	838.3	840.3	842.3	843.8	844.9	846.0	847.2	848.3	848.3	848.3
142.5°	868.2	870.2	872.2	874.2	875.6	876.3	877.1	877.8	878.6	878.8	879.0
145°	913.7	915.2	916.8	918.3	919.8	921.1	922.4	923.8	925.1	925.3	925.5
147.5°	954.9	956.8	958.6	960.5	961.9	962.8	963.6	964.5	965.4	965.9	966.4
150°	982.3	983.6	985.0	986.3	987.4	988.3	989.2	990.1	991.0	991.6	992.3
152.5°	1007.1	1008.4	1009.7	1011.1	1012.3	1013.3	1014.4	1015.4	1016.5	1017.4	1018.2
155°	1043.5	1044.2	1044.9	1045.5	1046.2	1046.9	1047.5	1048.2	1048.8	1050.0	1051.1
157.5°	1075.0	1075.5	1075.9	1076.4	1076.8	1077.2	1077.6	1078.0	1078.4	1079.9	1081.4
160°	1094.2	1094.6	1095.1	1095.5	1095.9	1096.1	1096.3	1096.5	1096.7	1098.1	1099.4
162.5°	1111.4	1111.5	1111.6	1111.7	1111.8	1112.1	1112.3	1112.5	1112.7	1114.2	1115.7
165°	1134.5	1134.2	1134.0	1133.8	1133.7	1133.7	1133.7	1133.7	1133.7	1135.2	1136.8
167.5°	1153.6	1152.9	1152.2	1151.6	1151.2	1151.2	1151.1	1151.1	1151.0	1152.6	1154.1
170°	1163.9	1163.3	1162.6	1161.9	1161.5	1161.3	1161.1	1160.8	1160.6	1162.2	1163.7
172.5°	1171.1	1170.5	1169.8	1169.1	1168.7	1168.5	1168.2	1168.0	1167.8	1169.4	1170.9
175°	1179.9	1179.2	1178.6	1177.9	1177.4	1176.9	1176.5	1176.0	1175.6	1177.1	1178.7
177.5°	1183.6	1183.1	1182.6	1182.0	1181.6	1181.2	1180.9	1180.5	1180.2	1181.2	1182.3
180°	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1790.8	1798.2	1798.2	1799.3	1807.8	1806.7	1806.2
5°	1905.7	1917.0	1918.3	1930.3	1938.2	1935.6	1928.3
7.5°	2014.1	2035.1	2051.0	2059.9	2070.4	2076.9	2074.0
10°	2100.1	2130.6	2149.2	2161.8	2177.1	2188.4	2184.4
12.5°	2178.2	2214.5	2240.0	2261.6	2263.6	2278.1	2268.3
15°	2299.9	2338.3	2342.3	2358.2	2370.9	2369.5	2370.2
17.5°	2340.1	2352.4	2354.9	2355.3	2355.5	2350.8	2340.7
20°	2325.7	2321.1	2309.8	2301.2	2285.9	2283.9	2270.7
22.5°	2257.8	2243.1	2214.8	2196.1	2172.3	2166.1	2162.4
25°	2124.0	2091.5	2046.4	2003.2	1991.3	1968.1	1974.7
27.5°	1940.5	1889.8	1840.9	1805.9	1774.2	1739.4	1749.4
30°	1811.5	1754.4	1685.4	1632.3	1598.5	1565.3	1559.3
32.5°	1657.5	1573.9	1497.0	1450.2	1398.4	1377.4	1354.4
35°	1392.1	1310.5	1234.2	1168.5	1130.7	1101.5	1074.9
37.5°	1153.4	1059.4	997.8	944.6	917.3	900.6	904.8
40°	1005.3	923.0	877.9	837.4	812.2	800.2	802.9
42.5°	885.3	823.7	786.6	758.8	741.0	734.4	732.8
45°	749.1	714.6	684.1	668.2	659.6	652.3	647.6
47.5°	656.2	628.1	610.9	601.4	593.9	586.4	586.3
50°	600.5	581.9	570.0	560.0	554.1	548.8	553.4
52.5°	558.0	541.1	529.1	520.2	518.0	513.2	513.1
55°	495.0	481.7	473.1	465.1	461.2	458.5	455.2
57.5°	437.7	425.1	417.1	412.1	404.5	401.8	400.8
60°	396.8	386.8	378.9	372.2	368.9	363.6	363.6
62.5°	359.1	349.2	341.7	336.7	331.2	329.1	329.7
65°	304.6	296.6	289.3	284.0	282.7	278.7	280.0
67.5°	254.4	249.1	241.4	238.5	236.0	233.8	232.2
70°	221.0	215.7	211.7	207.7	205.7	205.7	205.7
72.5°	192.8	186.5	184.1	179.0	180.2	178.1	176.0
75°	149.3	145.3	143.3	141.3	138.0	138.0	138.0
77.5°	109.9	108.7	106.3	104.2	103.4	102.7	103.0
80°	84.9	84.3	82.9	82.9	81.6	81.0	79.6
82.5°	65.3	63.6	62.8	62.2	62.0	61.8	61.6
85°	37.2	35.8	35.8	36.5	35.2	35.2	35.8
87.5°	21.1	21.0	20.4	20.5	21.0	20.5	20.6
90°	33.6	33.2	33.0	33.3	33.5	33.7	33.9
92.5°	32.0	32.1	32.2	32.2	32.2	32.3	32.3
95°	63.9	63.9	63.6	63.2	62.8	62.3	61.9
97.5°	107.4	107.4	107.4	107.3	107.3	107.2	107.2
100°	137.7	137.7	137.6	137.4	137.2	136.9	136.7
102.5°	171.0	171.2	171.1	170.9	170.7	170.5	170.3
105°	220.9	221.3	221.5	221.5	221.5	221.5	221.5
107.5°	274.2	274.3	273.9	272.9	271.9	270.9	269.8
110°	310.4	310.4	310.0	309.4	308.7	308.0	307.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	346.3	345.8	345.2	344.8	344.3	343.8	343.3
115°	402.5	402.3	401.8	401.2	400.5	399.8	399.2
117.5°	456.3	455.7	455.1	454.5	453.8	453.1	452.5
120°	493.0	493.0	492.7	492.0	491.3	490.7	490.0
122.5°	529.7	529.2	528.7	528.2	527.7	527.2	526.7
125°	584.8	584.1	583.7	583.5	583.2	583.0	582.8
127.5°	638.3	637.5	636.7	636.0	635.3	634.6	633.9
130°	675.3	674.8	674.2	673.3	672.4	671.5	670.6
132.5°	710.4	709.4	708.6	707.9	707.2	706.5	705.8
135°	763.8	763.5	763.1	762.4	761.8	761.1	760.4
137.5°	814.2	814.0	813.5	812.6	811.7	810.8	809.9
140°	848.3	848.3	847.8	846.9	846.0	845.2	844.3
142.5°	879.1	879.3	879.0	878.1	877.2	876.3	875.4
145°	925.8	926.0	925.7	924.8	923.9	923.0	922.1
147.5°	966.9	967.4	967.2	966.4	965.5	964.7	963.8
150°	993.0	993.6	993.6	993.0	992.3	991.6	991.0
152.5°	1019.0	1019.9	1019.9	1019.0	1018.2	1017.4	1016.5
155°	1052.2	1053.3	1053.5	1052.8	1052.2	1051.5	1050.8
157.5°	1082.9	1084.4	1084.6	1083.6	1082.5	1081.4	1080.4
160°	1100.7	1102.1	1102.3	1101.4	1100.5	1099.6	1098.7
162.5°	1117.2	1118.7	1119.0	1117.9	1116.8	1115.8	1114.7
165°	1138.3	1139.9	1140.1	1139.0	1137.9	1136.8	1135.7
167.5°	1155.7	1157.2	1157.4	1156.3	1155.1	1154.0	1152.8
170°	1165.3	1166.8	1166.9	1165.6	1164.3	1162.9	1161.6
172.5°	1172.5	1174.0	1174.1	1172.8	1171.5	1170.1	1168.8
175°	1180.2	1181.8	1181.9	1180.6	1179.2	1177.9	1176.6
177.5°	1183.4	1184.4	1184.4	1183.4	1182.3	1181.2	1180.2
180°	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6

(END OF REPORT)