

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: P331402-830

Luminaire Tested: **SA2XXDIP-C865D925U830-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331402-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C865D925U830-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 925 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

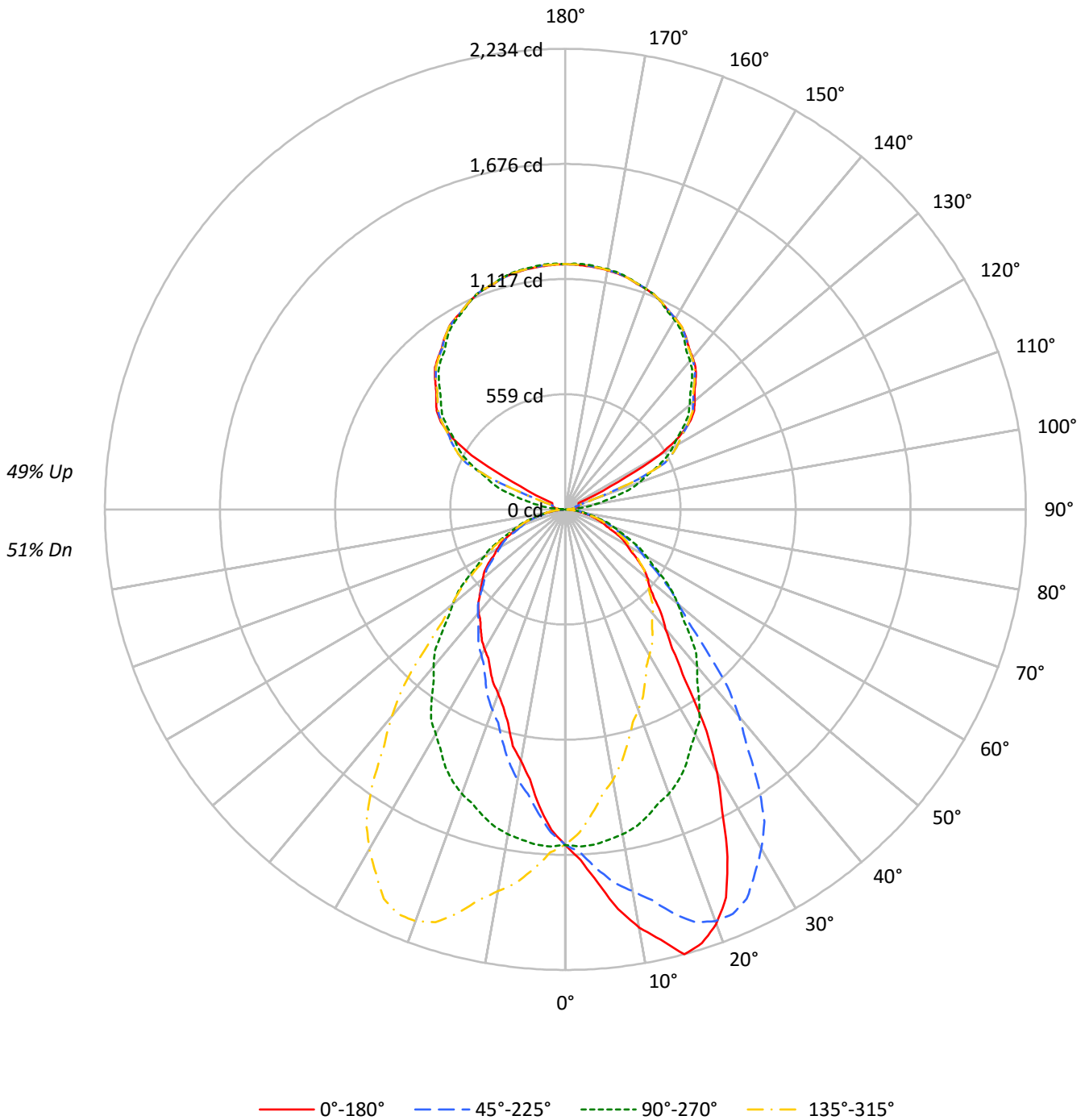
Lumens per Lamp: N/A
Luminaire Lumens: 7079.5 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

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	0
RCR																		
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	94	91	87	91	87	84	81	74	72	70	62	60	59	51	50	49	44
2	90	83	77	72	83	77	72	67	66	62	59	55	52	50	45	44	42	37
3	82	73	66	61	76	68	62	57	58	54	50	49	46	43	41	38	36	32
4	76	65	58	52	70	61	54	49	52	47	43	44	40	37	37	34	32	28
5	70	58	50	45	64	54	47	42	47	41	37	40	36	33	33	30	28	25
6	64	53	45	39	59	49	42	37	42	37	33	36	32	29	30	27	25	22
7	60	48	40	34	55	45	38	33	39	33	29	33	29	26	28	25	22	20
8	55	43	36	31	51	41	34	29	35	30	26	30	26	23	26	23	20	18
9	52	40	32	27	48	37	31	26	32	27	23	28	24	21	24	21	18	16
10	48	36	29	25	45	34	28	24	30	25	21	26	22	19	22	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	26274	26274	26274	26274
5°	29457	26446	23436	26446
10°	33755	26230	20282	26230
15°	37342	25748	17919	25748
20°	36773	25232	16333	25232
25°	33157	24545	15330	24545
30°	27401	23448	14600	23448
35°	19969	22300	14079	22300
40°	15951	20946	13789	20946
45°	13938	19379	13394	19379
50°	13102	17862	13132	17862
55°	12076	16321	12780	16321
60°	11066	14683	12239	14683
65°	10082	13211	11706	13211
70°	9153	11783	10924	11783
75°	8116	10181	9676	10181
80°	6974	8433	7792	8433
85°	6243	6243	4631	6243



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.0	2.2
10°-20°	450.6	6.4
20°-30°	653.9	9.2
30°-40°	690.0	9.7
40°-50°	611.0	8.6
50°-60°	487.6	6.9
60°-70°	331.4	4.7
70°-80°	169.9	2.4
80°-90°	43.9	0.6
90°-100°	39.7	0.6
100°-110°	145.5	2.1
110°-120°	389.0	5.5
120°-130°	642.1	9.1
130°-140°	682.9	9.6
140°-150°	634.7	9.0
150°-160°	510.3	7.2
160°-170°	328.8	4.6
170°-180°	113.2	1.6
0°-30°	1259.4	17.8
0°-40°	1949.5	27.5
0°-60°	3048.0	43.1
0°-90°	3593.2	50.8
90°-120°	574.2	8.1
90°-150°	2533.9	35.8
90°-180°	3486.0	49.2
0°-180°	7079.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1627	1627	1627	1627	1627	
5°	1818	1632	1446	1632	1818	181
15°	2234	1540	1072	1540	2234	616
25°	1861	1378	860	1378	1861	841
35°	1013	1131	714	1131	1013	659
45°	610	849	587	849	610	480
55°	429	580	454	580	429	385
65°	264	346	306	346	264	262
75°	130	163	155	163	130	139
85°	34	34	25	34	34	38
90°	23	1	23	1	23	12
95°	37	56	37	56	37	35
105°	65	262	65	262	65	68
115°	71	495	71	495	71	177
125°	736	700	736	700	736	637
135°	894	866	894	866	894	689
145°	1020	1005	1020	1005	1020	638
155°	1107	1106	1107	1106	1107	511
165°	1163	1166	1163	1166	1163	328
175°	1185	1192	1185	1192	1185	113
180°	1190	1190	1190	1190	1190	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3
2.5°	1702.4	1702.9	1703.9	1695.9	1694.9	1694.9	1687.9	1681.9	1674.9	1665.4	1666.4
5°	1817.5	1824.4	1826.8	1819.4	1808.1	1806.9	1796.2	1778.7	1762.5	1749.3	1739.9
7.5°	1954.8	1957.6	1951.4	1941.5	1933.2	1918.2	1898.4	1879.1	1851.9	1827.0	1808.5
10°	2058.9	2062.7	2052.0	2037.6	2025.7	2008.2	1979.4	1950.0	1914.4	1880.0	1852.5
12.5°	2138.0	2147.2	2133.5	2131.7	2111.3	2087.3	2053.0	2038.2	1988.0	1940.0	1910.5
15°	2234.0	2233.4	2234.7	2222.7	2207.7	2203.9	2167.8	2128.4	2057.7	2029.5	1980.8
17.5°	2206.2	2215.7	2220.2	2220.0	2219.6	2217.2	2205.6	2180.8	2145.3	2099.7	2043.3
20°	2140.2	2152.7	2154.6	2169.0	2177.1	2187.7	2192.1	2185.2	2163.3	2125.2	2076.4
22.5°	2038.2	2041.6	2047.5	2069.9	2087.5	2114.2	2128.1	2151.2	2142.8	2124.2	2083.4
25°	1861.2	1855.0	1876.9	1888.1	1928.8	1971.3	2002.0	2035.7	2065.8	2083.9	2072.0
27.5°	1648.9	1639.5	1672.3	1702.1	1735.1	1781.2	1829.0	1885.4	1932.3	1990.9	2011.1
30°	1469.7	1475.4	1506.7	1538.5	1588.6	1653.6	1707.4	1769.3	1836.3	1901.9	1947.6
32.5°	1276.6	1298.3	1318.1	1366.9	1411.0	1483.5	1562.3	1639.7	1723.2	1797.8	1868.5
35°	1013.1	1038.2	1065.7	1101.4	1163.3	1235.2	1312.1	1416.5	1530.4	1632.4	1716.2
37.5°	852.8	848.9	864.6	890.3	940.5	998.5	1087.1	1190.3	1324.3	1444.1	1562.3
40°	756.8	754.2	765.5	789.3	827.5	870.0	947.5	1038.2	1162.6	1309.0	1449.7
42.5°	690.7	692.2	698.4	715.2	741.4	776.4	834.4	911.6	1025.6	1163.4	1314.7
45°	610.4	614.8	621.7	629.8	644.8	673.5	706.1	761.1	851.2	966.3	1115.1
47.5°	552.6	552.7	559.8	566.8	575.8	592.0	618.5	653.1	716.6	810.3	938.3
50°	521.6	517.3	522.3	527.8	537.2	548.5	566.0	598.5	641.0	716.7	823.7
52.5°	483.6	483.7	488.2	490.3	498.7	510.0	525.9	548.5	587.0	646.2	734.1
55°	429.0	432.2	434.7	438.4	445.9	454.0	466.6	481.5	511.6	556.0	621.0
57.5°	377.8	378.7	381.3	388.4	393.1	400.7	412.6	426.1	445.6	478.5	527.4
60°	342.7	342.7	347.7	350.8	357.1	364.6	374.0	387.1	404.6	431.5	471.0
62.5°	310.8	310.2	312.2	317.4	322.1	329.1	338.5	349.6	366.1	390.0	422.4
65°	263.9	262.7	266.5	267.7	272.7	279.6	287.1	299.0	312.1	329.6	358.4
67.5°	218.9	220.4	222.4	224.8	227.5	234.8	239.8	248.2	259.3	273.8	293.3
70°	193.9	193.9	193.9	195.8	199.5	203.3	208.3	215.2	225.7	238.3	255.8
72.5°	165.9	167.9	169.8	168.7	173.5	175.8	181.7	185.6	195.8	203.8	219.2
75°	130.1	130.1	130.1	133.2	135.1	137.0	140.7	144.5	149.5	159.5	167.6
77.5°	97.1	96.8	97.5	98.2	100.2	102.5	103.6	107.0	111.6	116.2	123.1
80°	75.0	76.3	76.9	78.1	78.1	79.5	80.0	84.5	87.6	90.7	95.1
82.5°	58.1	58.2	58.4	58.6	59.2	59.9	61.5	63.0	64.0	66.6	70.0
85°	33.7	33.2	33.2	34.4	33.7	33.7	35.1	36.3	36.3	36.9	38.7
87.5°	17.6	17.6	18.0	17.4	17.3	17.7	17.5	16.9	17.2	17.4	17.6
90°	23.3	22.9	22.4	22.1	21.7	21.0	20.1	19.1	18.2	17.2	15.6
92.5°	23.3	23.0	22.8	22.5	22.3	22.0	21.5	20.9	20.5	20.0	19.2
95°	37.0	37.2	37.4	37.6	37.8	37.4	36.5	35.4	34.5	33.6	32.2
97.5°	49.4	49.2	48.9	48.7	48.4	48.0	47.2	46.5	45.7	45.0	41.8
100°	57.7	57.3	56.9	56.6	56.2	55.2	53.6	52.1	50.6	49.1	45.8
102.5°	61.8	61.3	60.7	60.2	59.7	58.4	56.5	54.4	52.4	50.4	77.7
105°	65.4	64.7	63.9	63.2	62.4	60.9	58.8	56.7	54.6	52.5	104.7
107.5°	67.3	66.5	65.8	65.0	64.3	64.9	67.1	69.2	71.4	73.5	136.1
110°	68.1	67.2	66.4	65.7	64.9	74.1	93.2	112.4	131.5	150.6	205.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	68.7	68.1	67.5	66.8	66.3	100.9	170.6	240.4	310.2	379.9	393.6
115°	70.6	84.4	98.1	111.9	125.6	176.8	265.4	354.0	442.5	531.1	526.3
117.5°	288.2	333.5	378.7	424.0	469.2	502.6	524.1	545.4	566.8	588.2	585.0
120°	525.1	550.9	576.7	602.6	628.4	640.2	637.9	635.6	633.3	630.9	627.5
122.5°	655.3	660.3	665.2	670.3	675.3	677.1	675.7	674.4	673.0	671.7	667.9
125°	736.0	735.5	734.8	734.2	733.7	732.7	731.4	730.1	728.8	727.4	723.8
127.5°	786.9	786.8	786.7	786.6	786.5	785.5	783.5	781.6	779.6	777.7	775.0
130°	818.6	818.8	819.0	819.3	819.4	818.4	816.3	814.3	812.1	810.0	807.9
132.5°	849.6	849.8	850.0	850.2	850.4	849.6	847.8	846.0	844.2	842.4	840.3
135°	894.4	894.8	895.1	895.5	895.9	895.1	893.2	891.4	889.4	887.5	885.8
137.5°	935.2	935.9	936.5	937.2	937.8	937.2	935.3	933.4	931.5	929.7	927.7
140°	960.6	961.7	962.6	963.6	964.5	964.1	962.4	960.6	958.9	957.2	955.2
142.5°	985.4	986.5	987.4	988.4	989.3	989.0	987.4	985.8	984.3	982.7	980.3
145°	1020.1	1021.1	1022.0	1022.9	1023.9	1023.7	1022.4	1021.1	1019.6	1018.3	1015.1
147.5°	1050.6	1051.3	1052.2	1052.9	1053.8	1053.7	1052.6	1051.7	1050.7	1049.7	1046.5
150°	1069.1	1070.1	1071.0	1072.0	1073.0	1072.9	1071.8	1070.5	1069.4	1068.3	1065.3
152.5°	1085.0	1086.3	1087.5	1088.7	1090.1	1090.1	1088.9	1087.8	1086.7	1085.5	1082.6
155°	1107.0	1108.5	1110.0	1111.6	1113.1	1113.3	1112.2	1111.1	1109.8	1108.7	1106.5
157.5°	1127.2	1128.6	1130.1	1131.6	1133.1	1133.2	1131.9	1130.6	1129.4	1128.0	1126.4
160°	1138.9	1140.2	1141.5	1142.8	1144.2	1144.3	1143.2	1142.0	1140.9	1139.7	1138.6
162.5°	1148.5	1150.2	1151.8	1153.5	1155.1	1155.3	1154.0	1152.6	1151.3	1150.1	1149.1
165°	1163.0	1164.3	1165.6	1167.0	1168.3	1168.3	1167.0	1165.6	1164.3	1163.0	1162.4
167.5°	1172.1	1173.8	1175.5	1177.2	1178.9	1179.2	1177.8	1176.5	1175.2	1173.8	1173.3
170°	1177.6	1179.3	1181.0	1182.8	1184.5	1184.7	1183.4	1182.0	1180.6	1179.3	1178.9
172.5°	1181.8	1183.5	1185.2	1186.8	1188.6	1188.8	1187.5	1186.1	1184.8	1183.5	1183.1
175°	1185.3	1187.2	1189.2	1191.1	1193.0	1193.3	1191.9	1190.6	1189.3	1187.9	1187.5
177.5°	1187.6	1188.9	1190.3	1191.8	1193.1	1193.3	1192.2	1191.1	1190.1	1188.9	1188.8
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3
2.5°	1669.9	1665.8	1663.4	1654.4	1646.3	1638.3	1635.9	1636.8	1625.9	1615.3	1610.8
5°	1734.9	1722.4	1710.5	1693.7	1673.7	1651.7	1640.5	1631.7	1609.9	1586.1	1572.3
7.5°	1793.2	1775.3	1752.5	1720.7	1691.5	1657.1	1635.2	1615.8	1583.8	1550.3	1529.7
10°	1828.7	1804.3	1774.9	1736.2	1700.5	1658.6	1629.2	1599.9	1562.3	1522.3	1497.2
12.5°	1859.3	1826.4	1797.4	1747.7	1705.5	1653.1	1618.3	1576.8	1537.3	1489.8	1465.3
15°	1931.9	1871.2	1816.2	1759.9	1708.0	1634.8	1596.1	1540.4	1488.5	1429.7	1401.6
17.5°	1988.1	1920.0	1833.2	1761.7	1701.1	1620.1	1563.2	1496.5	1435.1	1367.9	1329.6
20°	2020.2	1941.9	1848.7	1763.7	1691.1	1598.6	1536.6	1468.5	1396.6	1320.9	1279.6
22.5°	2039.1	1956.9	1864.7	1756.1	1671.1	1581.0	1503.2	1428.4	1355.6	1273.8	1230.6
25°	2045.1	1970.1	1872.5	1749.9	1646.2	1544.2	1450.4	1377.8	1289.6	1213.3	1150.2
27.5°	2015.3	1961.5	1867.7	1738.1	1617.2	1498.0	1393.5	1311.3	1218.2	1135.4	1071.9
30°	1978.9	1947.6	1856.2	1726.2	1594.2	1466.0	1350.9	1257.7	1165.2	1081.4	1016.3
32.5°	1922.3	1915.5	1835.2	1709.1	1569.7	1425.5	1306.4	1212.2	1109.7	1027.3	965.3
35°	1811.2	1841.3	1790.5	1671.1	1523.5	1367.8	1239.0	1131.4	1025.1	946.2	888.1
37.5°	1662.4	1736.9	1723.6	1615.4	1461.2	1305.0	1162.8	1050.4	949.0	869.5	812.4
40°	1559.8	1654.8	1668.6	1572.9	1417.2	1256.5	1105.8	993.8	894.9	822.5	764.9
42.5°	1449.7	1560.8	1598.6	1521.9	1369.1	1205.4	1054.7	938.8	840.9	770.4	719.3
45°	1265.3	1412.2	1480.4	1436.6	1289.0	1121.3	966.3	848.7	759.9	693.6	654.2
47.5°	1092.7	1253.3	1345.0	1329.6	1199.8	1033.8	880.4	767.6	681.2	628.3	593.0
50°	970.6	1135.8	1246.4	1251.5	1135.8	971.3	817.5	711.1	631.7	582.3	553.5
52.5°	864.6	1022.2	1142.9	1169.4	1064.2	906.3	760.9	655.1	585.1	539.7	514.0
55°	726.1	859.3	993.2	1042.0	957.5	807.4	673.0	579.8	514.1	482.9	460.3
57.5°	603.7	714.7	838.3	892.2	840.2	711.7	585.6	504.7	451.4	424.0	406.8
60°	539.1	626.7	736.8	801.2	756.1	641.7	531.6	454.7	410.9	386.5	370.2
62.5°	479.1	556.7	649.7	708.6	684.1	576.2	477.6	409.6	371.8	349.0	337.2
65°	395.3	456.6	528.5	582.9	566.7	484.7	404.1	345.8	315.8	297.7	288.3
67.5°	325.5	369.8	419.6	467.3	454.2	396.2	331.3	286.1	263.7	248.1	242.4
70°	281.4	315.2	359.6	397.8	387.1	339.6	288.3	249.6	230.2	217.1	211.4
72.5°	239.4	267.2	301.0	332.2	325.1	285.6	242.8	213.5	198.6	186.5	181.9
75°	180.8	202.0	222.6	243.3	241.4	210.8	185.8	163.2	151.4	141.9	140.1
77.5°	133.5	145.3	159.4	171.6	168.2	150.7	131.1	118.2	109.4	103.2	102.2
80°	102.0	108.9	118.9	127.6	123.2	115.7	100.1	90.7	84.5	78.1	75.7
82.5°	73.9	80.8	86.8	91.5	88.2	81.2	71.5	65.1	61.5	57.1	56.2
85°	38.7	42.5	45.1	46.3	45.1	40.6	36.3	33.7	30.6	28.7	28.2
87.5°	17.8	17.5	17.2	17.9	15.9	15.6	13.1	11.2	11.1	11.0	10.5
90°	14.1	12.6	11.1	9.2	7.2	5.1	2.9	0.8	2.9	5.1	7.2
92.5°	18.5	17.7	16.9	16.6	16.8	17.0	17.2	17.3	17.2	17.0	16.8
95°	30.9	29.6	28.2	30.7	37.0	43.4	49.7	56.0	49.7	43.4	37.0
97.5°	38.7	35.6	32.5	39.9	57.7	75.5	93.2	111.0	93.2	75.5	57.7
100°	42.6	39.3	36.1	47.5	73.7	99.9	126.1	152.4	126.1	99.9	73.7
102.5°	104.8	132.1	159.3	175.6	181.2	186.7	192.3	197.8	192.3	186.7	181.2
105°	156.9	209.2	261.4	284.6	278.9	273.1	267.4	261.6	267.4	273.1	278.9
107.5°	198.8	261.4	324.0	353.1	348.4	343.7	339.1	334.5	339.1	343.7	348.4
110°	261.2	316.5	371.7	397.4	393.4	389.4	385.4	381.4	385.4	389.4	393.4



TEST NUMBER: P331402-830

CATALOG NUMBER: SA2XXDIP-C865D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	407.3	420.9	434.6	439.6	436.1	432.5	429.0	425.4	429.0	432.5	436.1
115°	521.6	516.8	512.0	507.9	504.7	501.4	498.2	494.9	498.2	501.4	504.7
117.5°	581.7	578.4	575.1	571.7	568.1	564.4	560.7	557.1	560.7	564.4	568.1
120°	624.1	620.7	617.2	614.1	611.1	608.3	605.4	602.6	605.4	608.3	611.1
122.5°	664.1	660.3	656.6	653.2	650.2	647.1	644.1	641.1	644.1	647.1	650.2
125°	720.1	716.5	712.8	709.8	707.3	704.8	702.3	699.8	702.3	704.8	707.3
127.5°	772.2	769.5	766.8	764.0	761.3	758.6	755.8	753.0	755.8	758.6	761.3
130°	805.8	803.7	801.6	799.0	796.0	792.9	789.9	786.8	789.9	792.9	796.0
132.5°	838.2	836.1	834.0	831.6	829.1	826.4	823.8	821.2	823.8	826.4	829.1
135°	884.1	882.3	880.6	878.3	875.2	872.1	869.0	866.0	869.0	872.1	875.2
137.5°	925.8	923.8	921.9	919.8	917.7	915.6	913.4	911.3	913.4	915.6	917.7
140°	953.0	950.9	948.9	947.0	945.5	944.0	942.4	940.8	942.4	944.0	945.5
142.5°	977.9	975.4	973.1	971.2	969.8	968.5	967.0	965.6	967.0	968.5	969.8
145°	1011.8	1008.6	1005.3	1003.8	1004.0	1004.2	1004.4	1004.6	1004.4	1004.2	1004.0
147.5°	1043.3	1040.0	1036.8	1035.6	1036.3	1037.1	1037.7	1038.5	1037.7	1037.1	1036.3
150°	1062.2	1059.1	1056.0	1055.2	1056.5	1057.8	1059.2	1060.5	1059.2	1057.8	1056.5
152.5°	1079.7	1076.8	1073.8	1073.2	1074.7	1076.1	1077.6	1079.1	1077.6	1076.1	1074.7
155°	1104.2	1101.8	1099.6	1099.3	1101.0	1102.7	1104.5	1106.2	1104.5	1102.7	1101.0
157.5°	1124.8	1123.2	1121.6	1121.5	1122.9	1124.5	1125.9	1127.3	1125.9	1124.5	1122.9
160°	1137.5	1136.2	1135.1	1135.1	1136.2	1137.5	1138.6	1139.7	1138.6	1137.5	1136.2
162.5°	1148.0	1147.1	1146.0	1146.1	1147.3	1148.5	1149.6	1150.8	1149.6	1148.5	1147.3
165°	1161.8	1161.2	1160.6	1160.9	1162.1	1163.3	1164.4	1165.5	1164.4	1163.3	1162.1
167.5°	1172.7	1172.2	1171.7	1172.0	1173.1	1174.3	1175.4	1176.6	1175.4	1174.3	1173.1
170°	1178.6	1178.2	1177.8	1178.2	1179.3	1180.4	1181.6	1182.8	1181.6	1180.4	1179.3
172.5°	1182.7	1182.3	1181.9	1182.3	1183.5	1184.6	1185.7	1186.8	1185.7	1184.6	1183.5
175°	1187.1	1186.8	1186.4	1186.8	1188.2	1189.6	1190.9	1192.2	1190.9	1189.6	1188.2
177.5°	1188.6	1188.5	1188.4	1188.8	1189.9	1191.0	1192.0	1193.1	1192.0	1191.0	1189.9
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7



TEST NUMBER: P331402-830
 CATALOG NUMBER: SA2XXDIP-C865D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3
2.5°	1605.8	1602.8	1592.3	1586.9	1577.8	1569.3	1563.8	1566.3	1568.3	1567.3	1565.8
5°	1559.8	1547.9	1529.7	1514.1	1502.9	1482.2	1473.5	1469.1	1465.4	1460.9	1456.6
7.5°	1505.1	1486.3	1460.2	1437.9	1416.9	1391.3	1376.7	1367.9	1359.0	1349.1	1340.3
10°	1466.0	1439.7	1412.2	1380.9	1355.9	1332.8	1312.1	1298.4	1285.9	1273.9	1265.3
12.5°	1424.9	1394.7	1360.7	1317.9	1290.3	1257.3	1254.1	1229.8	1210.3	1203.0	1192.7
15°	1359.7	1317.1	1273.9	1223.3	1201.5	1171.4	1152.6	1133.9	1117.0	1105.1	1102.0
17.5°	1285.5	1230.5	1187.5	1151.1	1115.2	1084.5	1067.2	1052.3	1038.3	1022.5	1020.3
20°	1229.0	1181.4	1134.5	1102.6	1065.7	1034.4	1013.1	998.2	986.3	976.9	968.7
22.5°	1175.4	1123.4	1080.4	1045.6	1009.2	983.9	967.1	952.6	942.7	932.4	924.7
25°	1089.5	1048.9	1001.9	962.5	932.5	916.2	902.5	889.9	883.7	876.8	868.1
27.5°	1014.3	969.1	925.3	894.8	868.4	853.9	844.2	835.7	829.8	825.8	820.8
30°	961.3	915.6	881.2	851.2	829.3	814.9	808.7	803.7	796.8	794.3	791.8
32.5°	910.2	869.1	839.7	813.7	792.8	783.4	777.7	773.2	767.8	765.3	760.3
35°	838.1	803.7	774.9	760.5	743.7	735.5	731.1	724.9	719.8	717.4	716.7
37.5°	770.2	740.3	721.3	702.9	695.7	690.7	684.8	680.4	678.9	678.5	678.0
40°	726.1	701.7	684.9	669.9	666.7	659.2	654.2	650.4	650.4	651.1	650.4
42.5°	686.1	664.2	649.3	636.3	632.6	628.2	623.2	622.9	624.0	626.0	624.0
45°	625.4	609.8	599.2	592.9	586.0	581.6	581.0	582.9	583.5	584.2	586.0
47.5°	569.7	559.2	549.6	542.7	539.7	538.9	538.2	541.5	544.5	545.6	548.5
50°	536.6	524.7	516.6	512.2	509.7	508.5	509.7	513.5	515.9	519.1	520.9
52.5°	499.5	491.2	485.6	482.2	481.2	481.9	482.2	486.4	490.5	491.5	492.5
55°	448.5	442.1	440.9	435.3	437.8	437.2	440.3	442.8	446.6	450.3	450.9
57.5°	397.4	392.4	389.0	389.6	390.3	393.0	395.7	400.0	404.1	408.0	408.4
60°	363.4	360.9	359.0	359.0	360.2	364.0	367.1	371.5	374.0	376.5	378.3
62.5°	332.3	329.9	328.0	328.9	332.2	334.5	338.1	340.4	343.0	345.4	346.4
65°	283.3	282.1	284.0	285.2	285.8	289.0	293.3	295.2	297.7	299.0	303.3
67.5°	238.2	238.4	238.2	239.9	243.6	244.3	248.5	252.8	253.3	255.7	258.5
70°	207.6	208.9	210.2	211.4	214.5	215.7	218.9	220.7	223.3	225.2	227.1
72.5°	179.6	179.8	181.2	180.9	183.5	186.2	188.9	190.8	193.2	195.7	197.5
75°	138.2	138.2	139.5	140.1	143.3	146.4	145.7	146.9	149.5	151.9	153.3
77.5°	100.9	99.5	100.9	101.6	102.5	105.2	105.7	107.4	110.3	109.4	110.8
80°	76.9	75.0	76.9	77.6	77.6	80.7	80.7	81.9	83.8	81.9	83.8
82.5°	55.0	54.0	55.4	55.5	56.6	56.6	57.7	57.9	59.8	58.9	59.8
85°	27.5	26.9	27.5	26.9	27.5	28.2	28.2	27.5	27.5	28.7	26.9
87.5°	10.4	10.2	10.0	10.4	10.2	10.0	9.6	9.8	10.0	9.2	9.3
90°	9.2	11.1	12.6	14.1	15.6	17.2	18.2	19.1	20.1	21.0	21.7
92.5°	16.6	16.9	17.7	18.5	19.2	20.0	20.5	20.9	21.5	22.0	22.3
95°	30.7	28.2	29.6	30.9	32.2	33.6	34.5	35.4	36.5	37.4	37.8
97.5°	39.9	32.5	35.6	38.7	41.8	45.0	45.7	46.5	47.2	48.0	48.4
100°	47.5	36.1	39.3	42.6	45.8	49.1	50.6	52.1	53.6	55.2	56.2
102.5°	175.6	159.3	132.1	104.8	77.7	50.4	52.4	54.4	56.5	58.4	59.7
105°	284.6	261.4	209.2	156.9	104.7	52.5	54.6	56.7	58.8	60.9	62.4
107.5°	353.1	324.0	261.4	198.8	136.1	73.5	71.4	69.2	67.1	64.9	64.3
110°	397.4	371.7	316.5	261.2	205.9	150.6	131.5	112.4	93.2	74.1	64.9



TEST NUMBER: P331402-830
 CATALOG NUMBER: SA2XXDIP-C865D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	439.6	434.6	420.9	407.3	393.6	379.9	310.2	240.4	170.6	100.9	66.3
115°	507.9	512.0	516.8	521.6	526.3	531.1	442.5	354.0	265.4	176.8	125.6
117.5°	571.7	575.1	578.4	581.7	585.0	588.2	566.8	545.4	524.1	502.6	469.2
120°	614.1	617.2	620.7	624.1	627.5	630.9	633.3	635.6	637.9	640.2	628.4
122.5°	653.2	656.6	660.3	664.1	667.9	671.7	673.0	674.4	675.7	677.1	675.3
125°	709.8	712.8	716.5	720.1	723.8	727.4	728.8	730.1	731.4	732.7	733.7
127.5°	764.0	766.8	769.5	772.2	775.0	777.7	779.6	781.6	783.5	785.5	786.5
130°	799.0	801.6	803.7	805.8	807.9	810.0	812.1	814.3	816.3	818.4	819.4
132.5°	831.6	834.0	836.1	838.2	840.3	842.4	844.2	846.0	847.8	849.6	850.4
135°	878.3	880.6	882.3	884.1	885.8	887.5	889.4	891.4	893.2	895.1	895.9
137.5°	919.8	921.9	923.8	925.8	927.7	929.7	931.5	933.4	935.3	937.2	937.8
140°	947.0	948.9	950.9	953.0	955.2	957.2	958.9	960.6	962.4	964.1	964.5
142.5°	971.2	973.1	975.4	977.9	980.3	982.7	984.3	985.8	987.4	989.0	989.3
145°	1003.8	1005.3	1008.6	1011.8	1015.1	1018.3	1019.6	1021.1	1022.4	1023.7	1023.9
147.5°	1035.6	1036.8	1040.0	1043.3	1046.5	1049.7	1050.7	1051.7	1052.6	1053.7	1053.8
150°	1055.2	1056.0	1059.1	1062.2	1065.3	1068.3	1069.4	1070.5	1071.8	1072.9	1073.0
152.5°	1073.2	1073.8	1076.8	1079.7	1082.6	1085.5	1086.7	1087.8	1088.9	1090.1	1090.1
155°	1099.3	1099.6	1101.8	1104.2	1106.5	1108.7	1109.8	1111.1	1112.2	1113.3	1113.1
157.5°	1121.5	1121.6	1123.2	1124.8	1126.4	1128.0	1129.4	1130.6	1131.9	1133.2	1133.1
160°	1135.1	1135.1	1136.2	1137.5	1138.6	1139.7	1140.9	1142.0	1143.2	1144.3	1144.2
162.5°	1146.1	1146.0	1147.1	1148.0	1149.1	1150.1	1151.3	1152.6	1154.0	1155.3	1155.1
165°	1160.9	1160.6	1161.2	1161.8	1162.4	1163.0	1164.3	1165.6	1167.0	1168.3	1168.3
167.5°	1172.0	1171.7	1172.2	1172.7	1173.3	1173.8	1175.2	1176.5	1177.8	1179.2	1178.9
170°	1178.2	1177.8	1178.2	1178.6	1178.9	1179.3	1180.6	1182.0	1183.4	1184.7	1184.5
172.5°	1182.3	1181.9	1182.3	1182.7	1183.1	1183.5	1184.8	1186.1	1187.5	1188.8	1188.6
175°	1186.8	1186.4	1186.8	1187.1	1187.5	1187.9	1189.3	1190.6	1191.9	1193.3	1193.0
177.5°	1188.8	1188.4	1188.5	1188.6	1188.8	1188.9	1190.1	1191.1	1192.2	1193.3	1193.1
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7



TEST NUMBER: P331402-830
 CATALOG NUMBER: SA2XXDIP-C865D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3
2.5°	1560.8	1559.8	1559.8	1555.3	1559.8	1559.8	1560.8	1565.8	1567.3	1568.3	1566.3
5°	1447.8	1446.0	1442.8	1446.0	1442.8	1446.0	1447.8	1456.6	1460.9	1465.4	1469.1
7.5°	1336.1	1328.6	1327.5	1320.1	1327.5	1328.6	1336.1	1340.3	1349.1	1359.0	1367.9
10°	1254.6	1249.6	1249.0	1237.1	1249.0	1249.6	1254.6	1265.3	1273.9	1285.9	1298.4
12.5°	1192.6	1180.5	1182.9	1176.0	1182.9	1180.5	1192.6	1192.7	1203.0	1210.3	1229.8
15°	1085.1	1085.1	1082.6	1072.0	1082.6	1085.1	1085.1	1102.0	1105.1	1117.0	1133.9
17.5°	1008.0	1006.6	1000.7	1003.7	1000.7	1006.6	1008.0	1020.3	1022.5	1038.3	1052.3
20°	961.9	958.2	950.6	950.6	950.6	958.2	961.9	968.7	976.9	986.3	998.2
22.5°	918.4	918.1	910.1	912.6	910.1	918.1	918.4	924.7	932.4	942.7	952.6
25°	867.4	862.4	858.8	860.5	858.8	862.4	867.4	868.1	876.8	883.7	889.9
27.5°	819.2	816.4	816.1	811.1	816.1	816.4	819.2	820.8	825.8	829.8	835.7
30°	791.2	784.9	786.2	783.1	786.2	784.9	791.2	791.8	794.3	796.8	803.7
32.5°	759.1	756.9	755.6	753.0	755.6	756.9	759.1	760.3	765.3	767.8	773.2
35°	715.5	716.1	712.9	714.3	712.9	716.1	715.5	716.7	717.4	719.8	724.9
37.5°	677.3	679.3	677.9	678.3	677.9	679.3	677.3	678.0	678.5	678.9	680.4
40°	652.3	652.3	652.3	654.2	652.3	652.3	652.3	650.4	651.1	650.4	650.4
42.5°	628.3	627.3	626.3	626.1	626.3	627.3	628.3	624.0	626.0	624.0	622.9
45°	587.3	589.2	589.7	586.6	589.7	589.2	587.3	586.0	584.2	583.5	582.9
47.5°	550.2	550.4	550.2	552.9	550.2	550.4	550.2	548.5	545.6	544.5	541.5
50°	524.1	522.8	524.1	522.8	524.1	522.8	524.1	520.9	519.1	515.9	513.5
52.5°	496.6	496.8	496.1	495.9	496.1	496.8	496.6	492.5	491.5	490.5	486.4
55°	453.5	454.7	454.0	454.0	454.0	454.7	453.5	450.9	450.3	446.6	442.8
57.5°	408.8	409.9	410.8	408.0	410.8	409.9	408.8	408.4	408.0	404.1	400.0
60°	377.8	380.9	380.2	379.0	380.2	380.9	377.8	378.3	376.5	374.0	371.5
62.5°	349.2	350.3	350.2	350.0	350.2	350.3	349.2	346.4	345.4	343.0	340.4
65°	305.2	306.4	304.5	306.4	304.5	306.4	305.2	303.3	299.0	297.7	295.2
67.5°	257.8	258.2	259.6	260.4	259.6	258.2	257.8	258.5	255.7	253.3	252.8
70°	228.3	227.6	229.5	231.4	229.5	227.6	228.3	227.1	225.2	223.3	220.7
72.5°	197.3	198.6	198.0	199.3	198.0	198.6	197.3	197.5	195.7	193.2	190.8
75°	151.9	153.8	153.3	155.1	153.3	153.8	151.9	153.3	151.9	149.5	146.9
77.5°	109.8	110.1	109.8	110.8	109.8	110.1	109.8	110.8	109.4	110.3	107.4
80°	83.8	82.6	81.3	83.8	81.3	82.6	83.8	83.8	81.9	83.8	81.9
82.5°	58.2	59.0	57.8	57.8	57.8	59.0	58.2	59.8	58.9	59.8	57.9
85°	26.9	26.3	25.0	25.0	25.0	26.3	26.9	26.9	28.7	27.5	27.5
87.5°	9.4	9.0	9.0	8.7	9.0	9.0	9.4	9.3	9.2	10.0	9.8
90°	22.1	22.4	22.9	23.3	22.9	22.4	22.1	21.7	21.0	20.1	19.1
92.5°	22.5	22.8	23.0	23.3	23.0	22.8	22.5	22.3	22.0	21.5	20.9
95°	37.6	37.4	37.2	37.0	37.2	37.4	37.6	37.8	37.4	36.5	35.4
97.5°	48.7	48.9	49.2	49.4	49.2	48.9	48.7	48.4	48.0	47.2	46.5
100°	56.6	56.9	57.3	57.7	57.3	56.9	56.6	56.2	55.2	53.6	52.1
102.5°	60.2	60.7	61.3	61.8	61.3	60.7	60.2	59.7	58.4	56.5	54.4
105°	63.2	63.9	64.7	65.4	64.7	63.9	63.2	62.4	60.9	58.8	56.7
107.5°	65.0	65.8	66.5	67.3	66.5	65.8	65.0	64.3	64.9	67.1	69.2
110°	65.7	66.4	67.2	68.1	67.2	66.4	65.7	64.9	74.1	93.2	112.4



TEST NUMBER: P331402-830
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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	66.8	67.5	68.1	68.7	68.1	67.5	66.8	66.3	100.9	170.6	240.4
115°	111.9	98.1	84.4	70.6	84.4	98.1	111.9	125.6	176.8	265.4	354.0
117.5°	424.0	378.7	333.5	288.2	333.5	378.7	424.0	469.2	502.6	524.1	545.4
120°	602.6	576.7	550.9	525.1	550.9	576.7	602.6	628.4	640.2	637.9	635.6
122.5°	670.3	665.2	660.3	655.3	660.3	665.2	670.3	675.3	677.1	675.7	674.4
125°	734.2	734.8	735.5	736.0	735.5	734.8	734.2	733.7	732.7	731.4	730.1
127.5°	786.6	786.7	786.8	786.9	786.8	786.7	786.6	786.5	785.5	783.5	781.6
130°	819.3	819.0	818.8	818.6	818.8	819.0	819.3	819.4	818.4	816.3	814.3
132.5°	850.2	850.0	849.8	849.6	849.8	850.0	850.2	850.4	849.6	847.8	846.0
135°	895.5	895.1	894.8	894.4	894.8	895.1	895.5	895.9	895.1	893.2	891.4
137.5°	937.2	936.5	935.9	935.2	935.9	936.5	937.2	937.8	937.2	935.3	933.4
140°	963.6	962.6	961.7	960.6	961.7	962.6	963.6	964.5	964.1	962.4	960.6
142.5°	988.4	987.4	986.5	985.4	986.5	987.4	988.4	989.3	989.0	987.4	985.8
145°	1022.9	1022.0	1021.1	1020.1	1021.1	1022.0	1022.9	1023.9	1023.7	1022.4	1021.1
147.5°	1052.9	1052.2	1051.3	1050.6	1051.3	1052.2	1052.9	1053.8	1053.7	1052.6	1051.7
150°	1072.0	1071.0	1070.1	1069.1	1070.1	1071.0	1072.0	1073.0	1072.9	1071.8	1070.5
152.5°	1088.7	1087.5	1086.3	1085.0	1086.3	1087.5	1088.7	1090.1	1090.1	1088.9	1087.8
155°	1111.6	1110.0	1108.5	1107.0	1108.5	1110.0	1111.6	1113.1	1113.3	1112.2	1111.1
157.5°	1131.6	1130.1	1128.6	1127.2	1128.6	1130.1	1131.6	1133.1	1133.2	1131.9	1130.6
160°	1142.8	1141.5	1140.2	1138.9	1140.2	1141.5	1142.8	1144.2	1144.3	1143.2	1142.0
162.5°	1153.5	1151.8	1150.2	1148.5	1150.2	1151.8	1153.5	1155.1	1155.3	1154.0	1152.6
165°	1167.0	1165.6	1164.3	1163.0	1164.3	1165.6	1167.0	1168.3	1168.3	1167.0	1165.6
167.5°	1177.2	1175.5	1173.8	1172.1	1173.8	1175.5	1177.2	1178.9	1179.2	1177.8	1176.5
170°	1182.8	1181.0	1179.3	1177.6	1179.3	1181.0	1182.8	1184.5	1184.7	1183.4	1182.0
172.5°	1186.8	1185.2	1183.5	1181.8	1183.5	1185.2	1186.8	1188.6	1188.8	1187.5	1186.1
175°	1191.1	1189.2	1187.2	1185.3	1187.2	1189.2	1191.1	1193.0	1193.3	1191.9	1190.6
177.5°	1191.8	1190.3	1188.9	1187.6	1188.9	1190.3	1191.8	1193.1	1193.3	1192.2	1191.1
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7



TEST NUMBER: P331402-830

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3
2.5°	1563.8	1569.3	1577.8	1586.9	1592.3	1602.8	1605.8	1610.8	1615.3	1625.9	1636.8
5°	1473.5	1482.2	1502.9	1514.1	1529.7	1547.9	1559.8	1572.3	1586.1	1609.9	1631.7
7.5°	1376.7	1391.3	1416.9	1437.9	1460.2	1486.3	1505.1	1529.7	1550.3	1583.8	1615.8
10°	1312.1	1332.8	1355.9	1380.9	1412.2	1439.7	1466.0	1497.2	1522.3	1562.3	1599.9
12.5°	1254.1	1257.3	1290.3	1317.9	1360.7	1394.7	1424.9	1465.3	1489.8	1537.3	1576.8
15°	1152.6	1171.4	1201.5	1223.3	1273.9	1317.1	1359.7	1401.6	1429.7	1488.5	1540.4
17.5°	1067.2	1084.5	1115.2	1151.1	1187.5	1230.5	1285.5	1329.6	1367.9	1435.1	1496.5
20°	1013.1	1034.4	1065.7	1102.6	1134.5	1181.4	1229.0	1279.6	1320.9	1396.6	1468.5
22.5°	967.1	983.9	1009.2	1045.6	1080.4	1123.4	1175.4	1230.6	1273.8	1355.6	1428.4
25°	902.5	916.2	932.5	962.5	1001.9	1048.9	1089.5	1150.2	1213.3	1289.6	1377.8
27.5°	844.2	853.9	868.4	894.8	925.3	969.1	1014.3	1071.9	1135.4	1218.2	1311.3
30°	808.7	814.9	829.3	851.2	881.2	915.6	961.3	1016.3	1081.4	1165.2	1257.7
32.5°	777.7	783.4	792.8	813.7	839.7	869.1	910.2	965.3	1027.3	1109.7	1212.2
35°	731.1	735.5	743.7	760.5	774.9	803.7	838.1	888.1	946.2	1025.1	1131.4
37.5°	684.8	690.7	695.7	702.9	721.3	740.3	770.2	812.4	869.5	949.0	1050.4
40°	654.2	659.2	666.7	669.9	684.9	701.7	726.1	764.9	822.5	894.9	993.8
42.5°	623.2	628.2	632.6	636.3	649.3	664.2	686.1	719.3	770.4	840.9	938.8
45°	581.0	581.6	586.0	592.9	599.2	609.8	625.4	654.2	693.6	759.9	848.7
47.5°	538.2	538.9	539.7	542.7	549.6	559.2	569.7	593.0	628.3	681.2	767.6
50°	509.7	508.5	509.7	512.2	516.6	524.7	536.6	553.5	582.3	631.7	711.1
52.5°	482.2	481.9	481.2	482.2	485.6	491.2	499.5	514.0	539.7	585.1	655.1
55°	440.3	437.2	437.8	435.3	440.9	442.1	448.5	460.3	482.9	514.1	579.8
57.5°	395.7	393.0	390.3	389.6	389.0	392.4	397.4	406.8	424.0	451.4	504.7
60°	367.1	364.0	360.2	359.0	359.0	360.9	363.4	370.2	386.5	410.9	454.7
62.5°	338.1	334.5	332.2	328.9	328.0	329.9	332.3	337.2	349.0	371.8	409.6
65°	293.3	289.0	285.8	285.2	284.0	282.1	283.3	288.3	297.7	315.8	345.8
67.5°	248.5	244.3	243.6	239.9	238.2	238.4	238.2	242.4	248.1	263.7	286.1
70°	218.9	215.7	214.5	211.4	210.2	208.9	207.6	211.4	217.1	230.2	249.6
72.5°	188.9	186.2	183.5	180.9	181.2	179.8	179.6	181.9	186.5	198.6	213.5
75°	145.7	146.4	143.3	140.1	139.5	138.2	138.2	140.1	141.9	151.4	163.2
77.5°	105.7	105.2	102.5	101.6	100.9	99.5	100.9	102.2	103.2	109.4	118.2
80°	80.7	80.7	77.6	77.6	76.9	75.0	76.9	75.7	78.1	84.5	90.7
82.5°	57.7	56.6	56.6	55.5	55.4	54.0	55.0	56.2	57.1	61.5	65.1
85°	28.2	28.2	27.5	26.9	27.5	26.9	27.5	28.2	28.7	30.6	33.7
87.5°	9.6	10.0	10.2	10.4	10.0	10.2	10.4	10.5	11.0	11.1	11.2
90°	18.2	17.2	15.6	14.1	12.6	11.1	9.2	7.2	5.1	2.9	0.8
92.5°	20.5	20.0	19.2	18.5	17.7	16.9	16.6	16.8	17.0	17.2	17.3
95°	34.5	33.6	32.2	30.9	29.6	28.2	30.7	37.0	43.4	49.7	56.0
97.5°	45.7	45.0	41.8	38.7	35.6	32.5	39.9	57.7	75.5	93.2	111.0
100°	50.6	49.1	45.8	42.6	39.3	36.1	47.5	73.7	99.9	126.1	152.4
102.5°	52.4	50.4	77.7	104.8	132.1	159.3	175.6	181.2	186.7	192.3	197.8
105°	54.6	52.5	104.7	156.9	209.2	261.4	284.6	278.9	273.1	267.4	261.6
107.5°	71.4	73.5	136.1	198.8	261.4	324.0	353.1	348.4	343.7	339.1	334.5
110°	131.5	150.6	205.9	261.2	316.5	371.7	397.4	393.4	389.4	385.4	381.4



TEST NUMBER: P331402-830
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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	310.2	379.9	393.6	407.3	420.9	434.6	439.6	436.1	432.5	429.0	425.4
115°	442.5	531.1	526.3	521.6	516.8	512.0	507.9	504.7	501.4	498.2	494.9
117.5°	566.8	588.2	585.0	581.7	578.4	575.1	571.7	568.1	564.4	560.7	557.1
120°	633.3	630.9	627.5	624.1	620.7	617.2	614.1	611.1	608.3	605.4	602.6
122.5°	673.0	671.7	667.9	664.1	660.3	656.6	653.2	650.2	647.1	644.1	641.1
125°	728.8	727.4	723.8	720.1	716.5	712.8	709.8	707.3	704.8	702.3	699.8
127.5°	779.6	777.7	775.0	772.2	769.5	766.8	764.0	761.3	758.6	755.8	753.0
130°	812.1	810.0	807.9	805.8	803.7	801.6	799.0	796.0	792.9	789.9	786.8
132.5°	844.2	842.4	840.3	838.2	836.1	834.0	831.6	829.1	826.4	823.8	821.2
135°	889.4	887.5	885.8	884.1	882.3	880.6	878.3	875.2	872.1	869.0	866.0
137.5°	931.5	929.7	927.7	925.8	923.8	921.9	919.8	917.7	915.6	913.4	911.3
140°	958.9	957.2	955.2	953.0	950.9	948.9	947.0	945.5	944.0	942.4	940.8
142.5°	984.3	982.7	980.3	977.9	975.4	973.1	971.2	969.8	968.5	967.0	965.6
145°	1019.6	1018.3	1015.1	1011.8	1008.6	1005.3	1003.8	1004.0	1004.2	1004.4	1004.6
147.5°	1050.7	1049.7	1046.5	1043.3	1040.0	1036.8	1035.6	1036.3	1037.1	1037.7	1038.5
150°	1069.4	1068.3	1065.3	1062.2	1059.1	1056.0	1055.2	1056.5	1057.8	1059.2	1060.5
152.5°	1086.7	1085.5	1082.6	1079.7	1076.8	1073.8	1073.2	1074.7	1076.1	1077.6	1079.1
155°	1109.8	1108.7	1106.5	1104.2	1101.8	1099.6	1099.3	1101.0	1102.7	1104.5	1106.2
157.5°	1129.4	1128.0	1126.4	1124.8	1123.2	1121.6	1121.5	1122.9	1124.5	1125.9	1127.3
160°	1140.9	1139.7	1138.6	1137.5	1136.2	1135.1	1135.1	1136.2	1137.5	1138.6	1139.7
162.5°	1151.3	1150.1	1149.1	1148.0	1147.1	1146.0	1146.1	1147.3	1148.5	1149.6	1150.8
165°	1164.3	1163.0	1162.4	1161.8	1161.2	1160.6	1160.9	1162.1	1163.3	1164.4	1165.5
167.5°	1175.2	1173.8	1173.3	1172.7	1172.2	1171.7	1172.0	1173.1	1174.3	1175.4	1176.6
170°	1180.6	1179.3	1178.9	1178.6	1178.2	1177.8	1178.2	1179.3	1180.4	1181.6	1182.8
172.5°	1184.8	1183.5	1183.1	1182.7	1182.3	1181.9	1182.3	1183.5	1184.6	1185.7	1186.8
175°	1189.3	1187.9	1187.5	1187.1	1186.8	1186.4	1186.8	1188.2	1189.6	1190.9	1192.2
177.5°	1190.1	1188.9	1188.8	1188.6	1188.5	1188.4	1188.8	1189.9	1191.0	1192.0	1193.1
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7



TEST NUMBER: P331402-830
 CATALOG NUMBER: SA2XXDIP-C865D925U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3
2.5°	1635.9	1638.3	1646.3	1654.4	1663.4	1665.8	1669.9	1666.4	1665.4	1674.9	1681.9
5°	1640.5	1651.7	1673.7	1693.7	1710.5	1722.4	1734.9	1739.9	1749.3	1762.5	1778.7
7.5°	1635.2	1657.1	1691.5	1720.7	1752.5	1775.3	1793.2	1808.5	1827.0	1851.9	1879.1
10°	1629.2	1658.6	1700.5	1736.2	1774.9	1804.3	1828.7	1852.5	1880.0	1914.4	1950.0
12.5°	1618.3	1653.1	1705.5	1747.7	1797.4	1826.4	1859.3	1910.5	1940.0	1988.0	2038.2
15°	1596.1	1634.8	1708.0	1759.9	1816.2	1871.2	1931.9	1980.8	2029.5	2057.7	2128.4
17.5°	1563.2	1620.1	1701.1	1761.7	1833.2	1920.0	1988.1	2043.3	2099.7	2145.3	2180.8
20°	1536.6	1598.6	1691.1	1763.7	1848.7	1941.9	2020.2	2076.4	2125.2	2163.3	2185.2
22.5°	1503.2	1581.0	1671.1	1756.1	1864.7	1956.9	2039.1	2083.4	2124.2	2142.8	2151.2
25°	1450.4	1544.2	1646.2	1749.9	1872.5	1970.1	2045.1	2072.0	2083.9	2065.8	2035.7
27.5°	1393.5	1498.0	1617.2	1738.1	1867.7	1961.5	2015.3	2011.1	1990.9	1932.3	1885.4
30°	1350.9	1466.0	1594.2	1726.2	1856.2	1947.6	1978.9	1947.6	1901.9	1836.3	1769.3
32.5°	1306.4	1425.5	1569.7	1709.1	1835.2	1915.5	1922.3	1868.5	1797.8	1723.2	1639.7
35°	1239.0	1367.8	1523.5	1671.1	1790.5	1841.3	1811.2	1716.2	1632.4	1530.4	1416.5
37.5°	1162.8	1305.0	1461.2	1615.4	1723.6	1736.9	1662.4	1562.3	1444.1	1324.3	1190.3
40°	1105.8	1256.5	1417.2	1572.9	1668.6	1654.8	1559.8	1449.7	1309.0	1162.6	1038.2
42.5°	1054.7	1205.4	1369.1	1521.9	1598.6	1560.8	1449.7	1314.7	1163.4	1025.6	911.6
45°	966.3	1121.3	1289.0	1436.6	1480.4	1412.2	1265.3	1115.1	966.3	851.2	761.1
47.5°	880.4	1033.8	1199.8	1329.6	1345.0	1253.3	1092.7	938.3	810.3	716.6	653.1
50°	817.5	971.3	1135.8	1251.5	1246.4	1135.8	970.6	823.7	716.7	641.0	598.5
52.5°	760.9	906.3	1064.2	1169.4	1142.9	1022.2	864.6	734.1	646.2	587.0	548.5
55°	673.0	807.4	957.5	1042.0	993.2	859.3	726.1	621.0	556.0	511.6	481.5
57.5°	585.6	711.7	840.2	892.2	838.3	714.7	603.7	527.4	478.5	445.6	426.1
60°	531.6	641.7	756.1	801.2	736.8	626.7	539.1	471.0	431.5	404.6	387.1
62.5°	477.6	576.2	684.1	708.6	649.7	556.7	479.1	422.4	390.0	366.1	349.6
65°	404.1	484.7	566.7	582.9	528.5	456.6	395.3	358.4	329.6	312.1	299.0
67.5°	331.3	396.2	454.2	467.3	419.6	369.8	325.5	293.3	273.8	259.3	248.2
70°	288.3	339.6	387.1	397.8	359.6	315.2	281.4	255.8	238.3	225.7	215.2
72.5°	242.8	285.6	325.1	332.2	301.0	267.2	239.4	219.2	203.8	195.8	185.6
75°	185.8	210.8	241.4	243.3	222.6	202.0	180.8	167.6	159.5	149.5	144.5
77.5°	131.1	150.7	168.2	171.6	159.4	145.3	133.5	123.1	116.2	111.6	107.0
80°	100.1	115.7	123.2	127.6	118.9	108.9	102.0	95.1	90.7	87.6	84.5
82.5°	71.5	81.2	88.2	91.5	86.8	80.8	73.9	70.0	66.6	64.0	63.0
85°	36.3	40.6	45.1	46.3	45.1	42.5	38.7	38.7	36.9	36.3	36.3
87.5°	13.1	15.6	15.9	17.9	17.2	17.5	17.8	17.6	17.4	17.2	16.9
90°	2.9	5.1	7.2	9.2	11.1	12.6	14.1	15.6	17.2	18.2	19.1
92.5°	17.2	17.0	16.8	16.6	16.9	17.7	18.5	19.2	20.0	20.5	20.9
95°	49.7	43.4	37.0	30.7	28.2	29.6	30.9	32.2	33.6	34.5	35.4
97.5°	93.2	75.5	57.7	39.9	32.5	35.6	38.7	41.8	45.0	45.7	46.5
100°	126.1	99.9	73.7	47.5	36.1	39.3	42.6	45.8	49.1	50.6	52.1
102.5°	192.3	186.7	181.2	175.6	159.3	132.1	104.8	77.7	50.4	52.4	54.4
105°	267.4	273.1	278.9	284.6	261.4	209.2	156.9	104.7	52.5	54.6	56.7
107.5°	339.1	343.7	348.4	353.1	324.0	261.4	198.8	136.1	73.5	71.4	69.2
110°	385.4	389.4	393.4	397.4	371.7	316.5	261.2	205.9	150.6	131.5	112.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	429.0	432.5	436.1	439.6	434.6	420.9	407.3	393.6	379.9	310.2	240.4
115°	498.2	501.4	504.7	507.9	512.0	516.8	521.6	526.3	531.1	442.5	354.0
117.5°	560.7	564.4	568.1	571.7	575.1	578.4	581.7	585.0	588.2	566.8	545.4
120°	605.4	608.3	611.1	614.1	617.2	620.7	624.1	627.5	630.9	633.3	635.6
122.5°	644.1	647.1	650.2	653.2	656.6	660.3	664.1	667.9	671.7	673.0	674.4
125°	702.3	704.8	707.3	709.8	712.8	716.5	720.1	723.8	727.4	728.8	730.1
127.5°	755.8	758.6	761.3	764.0	766.8	769.5	772.2	775.0	777.7	779.6	781.6
130°	789.9	792.9	796.0	799.0	801.6	803.7	805.8	807.9	810.0	812.1	814.3
132.5°	823.8	826.4	829.1	831.6	834.0	836.1	838.2	840.3	842.4	844.2	846.0
135°	869.0	872.1	875.2	878.3	880.6	882.3	884.1	885.8	887.5	889.4	891.4
137.5°	913.4	915.6	917.7	919.8	921.9	923.8	925.8	927.7	929.7	931.5	933.4
140°	942.4	944.0	945.5	947.0	948.9	950.9	953.0	955.2	957.2	958.9	960.6
142.5°	967.0	968.5	969.8	971.2	973.1	975.4	977.9	980.3	982.7	984.3	985.8
145°	1004.4	1004.2	1004.0	1003.8	1005.3	1008.6	1011.8	1015.1	1018.3	1019.6	1021.1
147.5°	1037.7	1037.1	1036.3	1035.6	1036.8	1040.0	1043.3	1046.5	1049.7	1050.7	1051.7
150°	1059.2	1057.8	1056.5	1055.2	1056.0	1059.1	1062.2	1065.3	1068.3	1069.4	1070.5
152.5°	1077.6	1076.1	1074.7	1073.2	1073.8	1076.8	1079.7	1082.6	1085.5	1086.7	1087.8
155°	1104.5	1102.7	1101.0	1099.3	1099.6	1101.8	1104.2	1106.5	1108.7	1109.8	1111.1
157.5°	1125.9	1124.5	1122.9	1121.5	1121.6	1123.2	1124.8	1126.4	1128.0	1129.4	1130.6
160°	1138.6	1137.5	1136.2	1135.1	1135.1	1136.2	1137.5	1138.6	1139.7	1140.9	1142.0
162.5°	1149.6	1148.5	1147.3	1146.1	1146.0	1147.1	1148.0	1149.1	1150.1	1151.3	1152.6
165°	1164.4	1163.3	1162.1	1160.9	1160.6	1161.2	1161.8	1162.4	1163.0	1164.3	1165.6
167.5°	1175.4	1174.3	1173.1	1172.0	1171.7	1172.2	1172.7	1173.3	1173.8	1175.2	1176.5
170°	1181.6	1180.4	1179.3	1178.2	1177.8	1178.2	1178.6	1178.9	1179.3	1180.6	1182.0
172.5°	1185.7	1184.6	1183.5	1182.3	1181.9	1182.3	1182.7	1183.1	1183.5	1184.8	1186.1
175°	1190.9	1189.6	1188.2	1186.8	1186.4	1186.8	1187.1	1187.5	1187.9	1189.3	1190.6
177.5°	1192.0	1191.0	1189.9	1188.8	1188.4	1188.5	1188.6	1188.8	1188.9	1190.1	1191.1
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3	1627.3
2.5°	1687.9	1694.9	1694.9	1695.9	1703.9	1702.9	1702.4
5°	1796.2	1806.9	1808.1	1819.4	1826.8	1824.4	1817.5
7.5°	1898.4	1918.2	1933.2	1941.5	1951.4	1957.6	1954.8
10°	1979.4	2008.2	2025.7	2037.6	2052.0	2062.7	2058.9
12.5°	2053.0	2087.3	2111.3	2131.7	2133.5	2147.2	2138.0
15°	2167.8	2203.9	2207.7	2222.7	2234.7	2233.4	2234.0
17.5°	2205.6	2217.2	2219.6	2220.0	2220.2	2215.7	2206.2
20°	2192.1	2187.7	2177.1	2169.0	2154.6	2152.7	2140.2
22.5°	2128.1	2114.2	2087.5	2069.9	2047.5	2041.6	2038.2
25°	2002.0	1971.3	1928.8	1888.1	1876.9	1855.0	1861.2
27.5°	1829.0	1781.2	1735.1	1702.1	1672.3	1639.5	1648.9
30°	1707.4	1653.6	1588.6	1538.5	1506.7	1475.4	1469.7
32.5°	1562.3	1483.5	1411.0	1366.9	1318.1	1298.3	1276.6
35°	1312.1	1235.2	1163.3	1101.4	1065.7	1038.2	1013.1
37.5°	1087.1	998.5	940.5	890.3	864.6	848.9	852.8
40°	947.5	870.0	827.5	789.3	765.5	754.2	756.8
42.5°	834.4	776.4	741.4	715.2	698.4	692.2	690.7
45°	706.1	673.5	644.8	629.8	621.7	614.8	610.4
47.5°	618.5	592.0	575.8	566.8	559.8	552.7	552.6
50°	566.0	548.5	537.2	527.8	522.3	517.3	521.6
52.5°	525.9	510.0	498.7	490.3	488.2	483.7	483.6
55°	466.6	454.0	445.9	438.4	434.7	432.2	429.0
57.5°	412.6	400.7	393.1	388.4	381.3	378.7	377.8
60°	374.0	364.6	357.1	350.8	347.7	342.7	342.7
62.5°	338.5	329.1	322.1	317.4	312.2	310.2	310.8
65°	287.1	279.6	272.7	267.7	266.5	262.7	263.9
67.5°	239.8	234.8	227.5	224.8	222.4	220.4	218.9
70°	208.3	203.3	199.5	195.8	193.9	193.9	193.9
72.5°	181.7	175.8	173.5	168.7	169.8	167.9	165.9
75°	140.7	137.0	135.1	133.2	130.1	130.1	130.1
77.5°	103.6	102.5	100.2	98.2	97.5	96.8	97.1
80°	80.0	79.5	78.1	78.1	76.9	76.3	75.0
82.5°	61.5	59.9	59.2	58.6	58.4	58.2	58.1
85°	35.1	33.7	33.7	34.4	33.2	33.2	33.7
87.5°	17.5	17.7	17.3	17.4	18.0	17.6	17.6
90°	20.1	21.0	21.7	22.1	22.4	22.9	23.3
92.5°	21.5	22.0	22.3	22.5	22.8	23.0	23.3
95°	36.5	37.4	37.8	37.6	37.4	37.2	37.0
97.5°	47.2	48.0	48.4	48.7	48.9	49.2	49.4
100°	53.6	55.2	56.2	56.6	56.9	57.3	57.7
102.5°	56.5	58.4	59.7	60.2	60.7	61.3	61.8
105°	58.8	60.9	62.4	63.2	63.9	64.7	65.4
107.5°	67.1	64.9	64.3	65.0	65.8	66.5	67.3
110°	93.2	74.1	64.9	65.7	66.4	67.2	68.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	170.6	100.9	66.3	66.8	67.5	68.1	68.7
115°	265.4	176.8	125.6	111.9	98.1	84.4	70.6
117.5°	524.1	502.6	469.2	424.0	378.7	333.5	288.2
120°	637.9	640.2	628.4	602.6	576.7	550.9	525.1
122.5°	675.7	677.1	675.3	670.3	665.2	660.3	655.3
125°	731.4	732.7	733.7	734.2	734.8	735.5	736.0
127.5°	783.5	785.5	786.5	786.6	786.7	786.8	786.9
130°	816.3	818.4	819.4	819.3	819.0	818.8	818.6
132.5°	847.8	849.6	850.4	850.2	850.0	849.8	849.6
135°	893.2	895.1	895.9	895.5	895.1	894.8	894.4
137.5°	935.3	937.2	937.8	937.2	936.5	935.9	935.2
140°	962.4	964.1	964.5	963.6	962.6	961.7	960.6
142.5°	987.4	989.0	989.3	988.4	987.4	986.5	985.4
145°	1022.4	1023.7	1023.9	1022.9	1022.0	1021.1	1020.1
147.5°	1052.6	1053.7	1053.8	1052.9	1052.2	1051.3	1050.6
150°	1071.8	1072.9	1073.0	1072.0	1071.0	1070.1	1069.1
152.5°	1088.9	1090.1	1090.1	1088.7	1087.5	1086.3	1085.0
155°	1112.2	1113.3	1113.1	1111.6	1110.0	1108.5	1107.0
157.5°	1131.9	1133.2	1133.1	1131.6	1130.1	1128.6	1127.2
160°	1143.2	1144.3	1144.2	1142.8	1141.5	1140.2	1138.9
162.5°	1154.0	1155.3	1155.1	1153.5	1151.8	1150.2	1148.5
165°	1167.0	1168.3	1168.3	1167.0	1165.6	1164.3	1163.0
167.5°	1177.8	1179.2	1178.9	1177.2	1175.5	1173.8	1172.1
170°	1183.4	1184.7	1184.5	1182.8	1181.0	1179.3	1177.6
172.5°	1187.5	1188.8	1188.6	1186.8	1185.2	1183.5	1181.8
175°	1191.9	1193.3	1193.0	1191.1	1189.2	1187.2	1185.3
177.5°	1192.2	1193.3	1193.1	1191.8	1190.3	1188.9	1187.6
180°	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7	1189.7

(END OF REPORT)