

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: P331833-935

Luminaire Tested: **S122RDIW-S865D970U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331833-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIW-S865D970U935-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 970 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

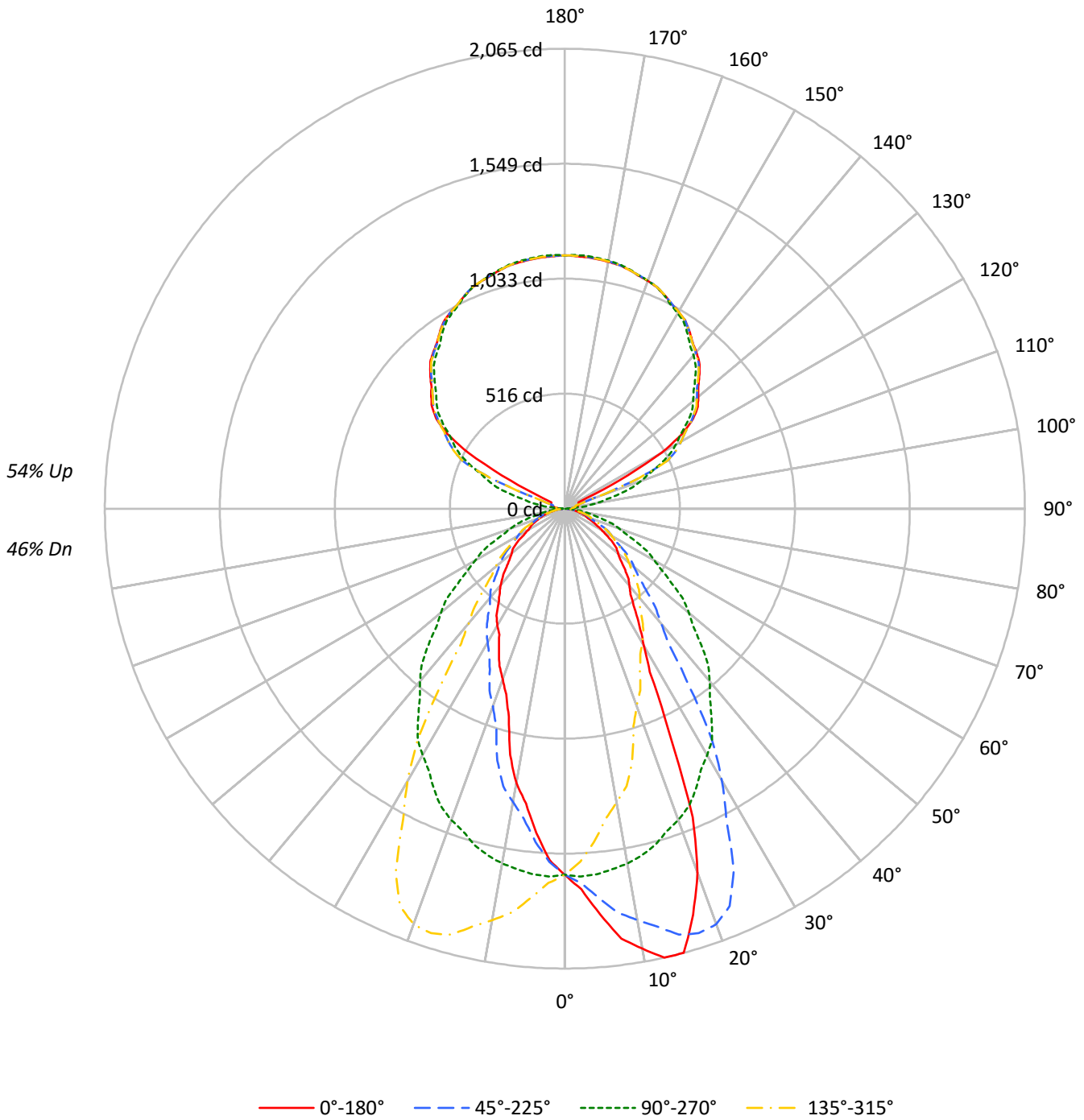
Lumens per Lamp: N/A
Luminaire Lumens: 6176.2 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 61.2
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	0	
RCR																						
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46				46
1	98	94	90	87	89	86	83	80	72	70	68	59	58	56	47	47	46				40	
2	89	83	77	72	82	76	71	67	64	61	57	53	51	48	43	41	40				35	
3	82	73	66	61	75	68	62	57	57	53	49	48	44	42	39	36	35				30	
4	76	65	58	52	69	61	54	49	51	47	43	43	39	37	35	33	31				27	
5	70	59	51	45	64	54	48	43	46	41	37	39	35	32	32	29	27				24	
6	64	53	45	40	59	49	42	38	42	37	33	36	32	29	29	27	24				22	
7	60	48	41	35	55	45	38	33	39	33	30	33	29	26	27	24	22				19	
8	56	44	37	31	51	41	34	30	35	30	27	30	26	23	25	22	20				18	
9	52	40	33	28	48	38	31	27	33	28	24	28	24	21	23	20	18				16	
10	49	37	30	26	45	35	29	24	30	25	22	26	22	19	22	19	17				15	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	26547	26547	26547	26547
5°	29648	26712	23686	26712
10°	32893	26525	20530	26525
15°	34511	26136	16177	26136
20°	29919	25560	13998	25560
25°	19621	24772	12497	24772
30°	13207	23815	11311	23815
35°	10697	22610	10200	22610
40°	9512	21300	9440	21300
45°	8608	19763	8426	19763
50°	7834	18239	7804	18239
55°	7367	16549	7268	16549
60°	6161	14996	6090	14996
65°	5196	13620	5891	13620
70°	4801	12161	5556	12161
75°	4492	10586	5128	10586
80°	4147	8712	4575	8712
85°	3816	6873	4020	6873



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.9	2.5
10°-20°	434.3	7.0
20°-30°	559.6	9.1
30°-40°	531.8	8.6
40°-50°	455.6	7.4
50°-60°	346.9	5.6
60°-70°	219.3	3.6
70°-80°	109.5	1.8
80°-90°	31.3	0.5
90°-100°	37.9	0.6
100°-110°	139.1	2.3
110°-120°	371.8	6.0
120°-130°	613.7	9.9
130°-140°	652.7	10.6
140°-150°	606.6	9.8
150°-160°	487.7	7.9
160°-170°	314.3	5.1
170°-180°	108.2	1.8
0°-30°	1149.8	18.6
0°-40°	1681.6	27.2
0°-60°	2484.1	40.2
0°-90°	2844.3	46.1
90°-120°	548.8	8.9
90°-150°	2421.8	39.2
90°-180°	3332.0	53.9
0°-180°	6176.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1644	1644	1644	1644	1644	
5°	1829	1648	1461	1648	1829	181
15°	2065	1564	968	1564	2065	557
25°	1101	1390	702	1390	1101	523
35°	543	1147	518	1147	543	347
45°	377	866	369	866	377	292
55°	262	588	258	588	262	230
65°	136	356	154	356	136	138
75°	72	170	82	170	72	76
85°	21	37	22	37	21	23
90°	22	1	22	1	22	11
95°	35	54	35	54	35	33
105°	62	250	62	250	62	65
115°	68	473	68	473	68	169
125°	703	669	703	669	703	609
135°	855	828	855	828	855	659
145°	975	960	975	960	975	610
155°	1058	1057	1058	1057	1058	488
165°	1112	1114	1112	1114	1112	314
175°	1133	1139	1133	1139	1133	108
180°	1137	1137	1137	1137	1137	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1710.9	1712.3	1713.6	1710.4	1710.4	1707.7	1701.8	1697.2	1684.4	1682.6	1682.6
5°	1829.3	1828.1	1830.4	1823.0	1812.7	1810.4	1799.6	1785.3	1770.4	1753.9	1750.4
7.5°	1946.9	1945.2	1940.6	1939.4	1931.5	1914.3	1896.8	1878.2	1853.5	1829.4	1817.2
10°	2006.3	2025.2	2013.8	1993.7	1997.8	1970.9	1956.6	1932.1	1911.5	1875.5	1867.5
12.5°	2064.9	2072.3	2068.6	2057.3	2052.2	2033.5	2014.2	1992.9	1954.9	1922.6	1894.5
15°	2064.6	2075.4	2078.3	2074.9	2077.8	2076.6	2066.3	2048.6	2015.5	1980.0	1949.2
17.5°	1912.2	1919.8	1938.5	1951.1	1967.1	2001.0	2017.7	2024.1	2019.2	1999.0	1977.3
20°	1741.3	1728.7	1781.2	1808.1	1830.9	1888.1	1937.2	1956.1	1986.3	1985.8	1980.0
22.5°	1499.0	1502.0	1551.9	1583.7	1650.5	1707.5	1763.6	1834.5	1893.1	1931.8	1954.5
25°	1101.4	1123.2	1172.9	1216.2	1290.6	1396.8	1493.3	1605.3	1711.0	1794.4	1873.8
27.5°	827.2	828.8	868.2	908.4	952.4	1039.5	1161.1	1294.8	1445.4	1569.8	1712.8
30°	708.4	705.0	721.5	746.1	783.8	851.2	942.6	1074.0	1224.3	1411.6	1578.5
32.5°	624.3	624.5	637.0	655.1	686.5	731.9	794.5	901.3	1043.3	1227.4	1423.1
35°	542.7	542.2	551.3	564.4	577.6	606.7	649.5	705.5	803.2	975.2	1175.1
37.5°	484.2	486.7	491.2	499.4	513.9	530.1	555.9	593.5	663.1	764.7	932.8
40°	451.3	452.5	458.7	465.6	474.2	486.7	507.9	538.1	589.0	670.1	792.9
42.5°	421.1	422.3	426.7	433.2	439.9	452.5	469.9	496.1	537.4	600.6	702.0
45°	377.0	377.0	381.1	383.9	391.3	402.8	417.1	438.8	467.3	514.2	581.6
47.5°	335.7	335.8	338.5	343.4	348.0	357.0	371.0	388.7	409.5	445.7	503.3
50°	311.9	312.5	314.2	318.2	321.1	329.1	339.9	355.3	377.0	405.0	453.1
52.5°	292.7	292.4	294.5	296.3	298.3	303.9	312.0	325.6	345.1	369.4	409.1
55°	261.7	259.3	262.8	265.6	267.3	269.7	274.2	282.8	299.4	319.9	349.7
57.5°	222.8	221.9	224.3	226.9	232.3	238.4	242.4	247.8	256.4	271.1	300.6
60°	190.8	190.8	196.0	197.7	204.0	212.0	220.0	224.5	233.1	242.8	264.5
62.5°	162.5	162.9	165.3	167.0	170.6	180.4	191.6	201.6	209.7	219.0	233.4
65°	136.0	137.1	137.1	138.3	140.5	142.8	147.4	155.4	169.7	182.8	193.6
67.5°	115.4	115.7	116.1	117.3	117.8	120.3	122.2	125.7	129.0	141.5	154.9
70°	101.7	103.4	102.8	104.0	104.5	105.6	108.0	109.7	114.9	117.7	125.7
72.5°	88.9	90.1	90.1	90.7	92.2	92.5	94.3	96.0	99.3	101.7	106.0
75°	72.0	71.4	72.0	73.1	73.7	74.3	74.3	76.5	78.3	80.6	83.4
77.5°	55.5	56.1	56.0	56.1	56.2	57.3	57.2	58.1	59.8	61.0	62.4
80°	44.6	45.1	44.6	45.1	45.7	46.2	45.7	46.2	48.0	49.2	49.2
82.5°	34.5	34.6	35.0	35.0	35.2	35.3	36.1	36.2	37.5	37.3	37.7
85°	20.6	20.0	20.0	20.0	20.6	21.1	20.6	20.6	21.1	21.1	21.1
87.5°	11.8	12.1	12.1	12.0	11.9	11.8	11.6	11.9	11.3	11.5	10.8
90°	22.2	21.9	21.4	21.1	20.8	20.1	19.2	18.3	17.4	16.4	15.0
92.5°	22.2	22.0	21.8	21.5	21.4	21.0	20.5	20.1	19.5	19.1	18.3
95°	35.4	35.6	35.7	35.9	36.1	35.7	34.9	33.9	33.0	32.1	30.8
97.5°	47.2	47.0	46.8	46.6	46.3	45.9	45.1	44.4	43.7	43.0	40.0
100°	55.1	54.8	54.4	54.0	53.6	52.8	51.3	49.9	48.4	46.9	43.8
102.5°	59.1	58.5	58.0	57.5	57.0	55.8	53.9	52.0	50.1	48.2	74.2
105°	62.5	61.8	61.0	60.4	59.6	58.2	56.2	54.2	52.2	50.2	100.1
107.5°	64.3	63.6	62.9	62.2	61.4	62.1	64.1	66.1	68.2	70.3	130.1
110°	65.0	64.2	63.5	62.8	62.1	70.9	89.1	107.4	125.7	144.0	196.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	65.7	65.1	64.5	63.9	63.3	96.3	163.1	229.7	296.4	363.2	376.2
115°	67.5	80.6	93.8	106.9	120.1	169.0	253.7	338.3	422.9	507.6	503.1
117.5°	275.4	318.7	362.0	405.2	448.5	480.4	500.8	521.2	541.7	562.2	559.1
120°	501.9	526.5	551.2	575.9	600.5	611.8	609.6	607.4	605.3	603.0	599.8
122.5°	626.3	631.0	635.8	640.6	645.4	647.1	645.8	644.5	643.2	641.9	638.3
125°	703.4	702.8	702.3	701.8	701.2	700.3	699.0	697.8	696.5	695.2	691.7
127.5°	752.1	752.0	751.9	751.8	751.7	750.7	748.8	747.0	745.1	743.2	740.6
130°	782.4	782.6	782.7	782.9	783.2	782.2	780.2	778.2	776.2	774.2	772.1
132.5°	812.0	812.2	812.4	812.5	812.8	812.0	810.3	808.6	806.8	805.1	803.1
135°	854.8	855.1	855.5	855.9	856.3	855.5	853.7	851.9	850.1	848.3	846.5
137.5°	893.8	894.4	895.0	895.7	896.3	895.7	893.9	892.1	890.4	888.6	886.7
140°	918.2	919.0	920.0	920.9	921.8	921.4	919.8	918.2	916.5	914.9	912.8
142.5°	941.8	942.8	943.7	944.6	945.5	945.2	943.7	942.2	940.7	939.2	936.9
145°	974.9	975.9	976.7	977.7	978.6	978.4	977.1	975.9	974.6	973.3	970.2
147.5°	1004.0	1004.8	1005.6	1006.3	1007.1	1007.0	1006.1	1005.1	1004.2	1003.2	1000.1
150°	1021.8	1022.7	1023.6	1024.6	1025.5	1025.4	1024.2	1023.2	1022.1	1021.0	1018.0
152.5°	1037.0	1038.2	1039.4	1040.6	1041.8	1041.8	1040.7	1039.7	1038.5	1037.4	1034.7
155°	1058.0	1059.5	1060.9	1062.4	1063.9	1064.0	1062.9	1061.9	1060.8	1059.6	1057.5
157.5°	1077.3	1078.7	1080.1	1081.5	1083.0	1083.1	1081.8	1080.6	1079.3	1078.1	1076.5
160°	1088.5	1089.8	1091.0	1092.3	1093.6	1093.6	1092.5	1091.5	1090.4	1089.3	1088.2
162.5°	1097.7	1099.2	1100.8	1102.3	1104.0	1104.1	1102.9	1101.6	1100.4	1099.2	1098.2
165°	1111.5	1112.8	1114.0	1115.3	1116.6	1116.6	1115.3	1114.0	1112.8	1111.5	1110.9
167.5°	1120.2	1121.9	1123.5	1125.2	1126.8	1127.0	1125.7	1124.4	1123.1	1121.9	1121.4
170°	1125.5	1127.1	1128.8	1130.4	1132.0	1132.2	1130.9	1129.7	1128.4	1127.1	1126.8
172.5°	1129.5	1131.1	1132.7	1134.4	1136.0	1136.2	1134.9	1133.6	1132.4	1131.1	1130.7
175°	1132.9	1134.7	1136.5	1138.3	1140.2	1140.5	1139.2	1137.9	1136.6	1135.3	1135.0
177.5°	1135.1	1136.3	1137.6	1138.9	1140.3	1140.4	1139.4	1138.4	1137.4	1136.3	1136.2
180°	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1683.4	1679.8	1676.6	1668.4	1664.2	1655.1	1653.7	1653.3	1641.4	1630.0	1626.8
5°	1741.3	1732.2	1718.4	1702.5	1685.8	1668.7	1657.3	1648.1	1625.3	1603.6	1591.0
7.5°	1799.6	1779.9	1756.3	1726.0	1700.7	1672.4	1651.3	1632.5	1600.1	1569.0	1548.1
10°	1843.0	1810.9	1779.5	1737.8	1705.3	1673.3	1643.6	1617.9	1581.3	1540.2	1511.1
12.5°	1869.9	1834.7	1791.4	1750.7	1708.5	1667.8	1628.1	1595.0	1552.0	1509.6	1474.9
15°	1906.3	1868.6	1816.1	1757.8	1703.6	1650.5	1604.7	1563.6	1507.6	1456.7	1414.5
17.5°	1936.2	1884.3	1827.9	1760.5	1697.6	1630.1	1571.2	1518.7	1456.4	1395.1	1345.2
20°	1945.8	1894.4	1829.3	1761.9	1687.6	1608.2	1544.7	1487.6	1420.7	1353.9	1296.8
22.5°	1939.8	1899.9	1827.4	1746.7	1670.7	1587.6	1516.0	1449.7	1375.5	1307.3	1241.0
25°	1899.5	1885.8	1817.2	1729.2	1642.4	1545.9	1463.0	1390.5	1306.0	1232.9	1160.8
27.5°	1805.5	1835.0	1792.6	1698.8	1602.3	1498.8	1405.7	1323.1	1235.4	1153.1	1081.3
30°	1715.0	1783.0	1764.7	1677.8	1569.9	1468.2	1363.7	1277.4	1183.7	1099.2	1028.3
32.5°	1591.1	1703.4	1721.3	1648.6	1537.0	1425.2	1315.7	1229.9	1132.0	1042.9	973.9
35°	1394.0	1561.9	1639.0	1592.8	1480.7	1360.2	1247.1	1147.1	1048.9	960.9	892.3
37.5°	1158.6	1387.4	1516.0	1519.2	1416.4	1291.1	1167.9	1068.7	968.1	881.8	807.5
40°	1006.0	1254.0	1421.3	1458.4	1371.7	1236.2	1111.7	1010.6	912.3	827.8	742.7
42.5°	868.9	1115.9	1321.7	1386.3	1317.2	1182.8	1057.8	952.1	856.6	776.6	689.7
45°	702.7	918.6	1145.4	1260.8	1222.5	1098.0	966.0	865.5	775.8	706.7	623.3
47.5°	592.8	744.9	964.4	1120.5	1119.8	1006.2	876.3	780.1	696.8	632.1	564.6
50°	530.1	662.7	848.3	1025.5	1040.3	944.9	821.5	726.1	648.4	580.4	526.2
52.5°	473.9	583.2	750.1	919.9	962.2	879.5	759.8	671.8	596.3	533.8	487.3
55°	400.5	485.0	611.8	770.7	834.7	776.4	670.1	587.9	526.8	474.2	434.2
57.5°	338.8	402.2	503.9	631.8	706.4	669.7	582.0	515.2	462.9	415.3	383.7
60°	299.9	351.9	438.2	545.0	627.2	601.6	526.8	464.4	419.9	378.8	349.0
62.5°	263.4	308.1	381.9	468.6	544.1	533.5	472.3	420.1	381.1	343.5	318.4
65°	212.0	244.5	302.2	370.2	430.8	435.9	391.9	356.5	321.7	292.0	269.7
67.5°	168.8	190.0	230.7	287.9	333.3	349.5	322.6	295.6	267.9	245.0	225.7
70°	142.2	159.4	189.1	235.4	277.1	294.2	278.8	257.6	233.7	214.8	198.2
72.5°	115.3	132.0	153.9	187.9	223.6	242.1	236.8	221.5	202.1	186.5	170.8
75°	86.9	92.0	106.9	129.7	157.6	173.7	177.7	169.7	154.2	142.2	133.1
77.5°	64.2	67.3	74.4	86.4	104.7	118.9	124.8	123.8	113.2	106.2	97.7
80°	51.4	53.1	56.6	61.7	75.4	89.7	93.7	93.7	86.3	83.4	74.8
82.5°	39.1	40.3	42.4	45.2	51.7	64.1	68.5	69.5	64.7	61.0	54.2
85°	22.3	21.7	22.8	24.5	25.7	29.1	36.0	37.1	36.0	31.4	29.7
87.5°	10.5	10.7	10.3	9.6	9.6	9.6	11.5	13.4	12.0	11.0	10.5
90°	13.5	12.1	10.6	8.9	6.9	4.8	2.8	0.9	2.8	4.8	6.9
92.5°	17.7	16.9	16.2	15.9	16.1	16.3	16.4	16.6	16.4	16.3	16.1
95°	29.5	28.2	26.9	29.4	35.4	41.4	47.4	53.5	47.4	41.4	35.4
97.5°	37.0	34.1	31.1	38.1	55.1	72.2	89.1	106.2	89.1	72.2	55.1
100°	40.6	37.5	34.4	45.5	70.5	95.5	120.5	145.6	120.5	95.5	70.5
102.5°	100.2	126.2	152.2	167.8	173.1	178.5	183.7	189.1	183.7	178.5	173.1
105°	150.0	199.9	249.9	272.1	266.6	261.1	255.6	250.1	255.6	261.1	266.6
107.5°	189.9	249.9	309.7	337.4	332.9	328.6	324.2	319.7	324.2	328.6	332.9
110°	249.7	302.5	355.3	379.8	376.0	372.1	368.3	364.5	368.3	372.1	376.0



TEST NUMBER: P331833-935

CATALOG NUMBER: S122RDIW-S865D970U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	389.3	402.3	415.3	420.2	416.8	413.4	410.0	406.6	410.0	413.4	416.8
115°	498.4	493.9	489.3	485.5	482.4	479.3	476.1	473.0	476.1	479.3	482.4
117.5°	555.9	552.8	549.7	546.4	542.9	539.4	536.0	532.4	536.0	539.4	542.9
120°	596.5	593.1	589.9	586.9	584.1	581.3	578.7	575.9	578.7	581.3	584.1
122.5°	634.7	631.1	627.6	624.3	621.4	618.5	615.6	612.8	615.6	618.5	621.4
125°	688.3	684.8	681.3	678.4	676.0	673.6	671.2	668.8	671.2	673.6	676.0
127.5°	738.0	735.5	732.9	730.2	727.6	725.0	722.4	719.7	722.4	725.0	727.6
130°	770.2	768.1	766.1	763.6	760.7	757.9	754.9	752.0	754.9	757.9	760.7
132.5°	801.1	799.1	797.0	794.8	792.3	789.9	787.4	784.9	787.4	789.9	792.3
135°	844.9	843.3	841.6	839.4	836.5	833.5	830.6	827.7	830.6	833.5	836.5
137.5°	884.8	883.0	881.1	879.1	877.1	875.0	873.0	870.9	873.0	875.0	877.1
140°	910.9	908.8	906.8	905.1	903.6	902.2	900.7	899.2	900.7	902.2	903.6
142.5°	934.6	932.3	930.0	928.2	926.9	925.6	924.2	922.9	924.2	925.6	926.9
145°	967.1	964.0	960.9	959.4	959.6	959.8	959.9	960.1	959.9	959.8	959.6
147.5°	997.0	994.0	990.9	989.7	990.4	991.1	991.8	992.6	991.8	991.1	990.4
150°	1015.1	1012.2	1009.3	1008.5	1009.8	1011.0	1012.3	1013.6	1012.3	1011.0	1009.8
152.5°	1031.9	1029.1	1026.3	1025.6	1027.1	1028.5	1029.9	1031.4	1029.9	1028.5	1027.1
155°	1055.2	1053.1	1050.9	1050.6	1052.2	1053.9	1055.5	1057.2	1055.5	1053.9	1052.2
157.5°	1075.0	1073.5	1071.9	1071.9	1073.2	1074.6	1076.1	1077.5	1076.1	1074.6	1073.2
160°	1087.1	1086.0	1084.9	1084.9	1086.0	1087.1	1088.2	1089.3	1088.2	1087.1	1086.0
162.5°	1097.3	1096.3	1095.4	1095.5	1096.5	1097.6	1098.7	1099.8	1098.7	1097.6	1096.5
165°	1110.3	1109.8	1109.3	1109.6	1110.7	1111.7	1112.8	1114.0	1112.8	1111.7	1110.7
167.5°	1120.8	1120.3	1119.8	1120.1	1121.2	1122.3	1123.3	1124.5	1123.3	1122.3	1121.2
170°	1126.4	1126.0	1125.7	1126.0	1127.1	1128.3	1129.3	1130.4	1129.3	1128.3	1127.1
172.5°	1130.3	1130.0	1129.6	1130.0	1131.1	1132.1	1133.2	1134.4	1133.2	1132.1	1131.1
175°	1134.6	1134.3	1133.9	1134.4	1135.7	1136.9	1138.2	1139.4	1138.2	1136.9	1135.7
177.5°	1136.0	1135.9	1135.7	1136.2	1137.2	1138.2	1139.3	1140.3	1139.3	1138.2	1137.2
180°	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0



TEST NUMBER: P331833-935

CATALOG NUMBER: S122RDIW-S865D970U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1620.8	1617.6	1611.7	1602.6	1597.1	1587.5	1581.1	1584.8	1585.6	1584.8	1583.8
5°	1577.3	1565.3	1548.8	1532.8	1517.9	1501.9	1492.7	1488.8	1480.7	1476.2	1473.9
7.5°	1524.7	1504.0	1480.5	1452.7	1429.0	1404.2	1391.5	1385.3	1368.9	1359.9	1352.2
10°	1485.3	1452.8	1429.3	1392.8	1370.5	1337.9	1315.7	1316.2	1293.9	1281.3	1272.2
12.5°	1441.9	1406.2	1367.2	1334.3	1303.3	1277.1	1250.3	1239.4	1215.8	1203.7	1179.0
15°	1369.9	1328.3	1287.1	1242.5	1211.1	1170.5	1131.7	1084.3	1046.0	1012.9	1003.8
17.5°	1291.3	1239.7	1198.4	1146.1	1092.3	1024.1	979.0	951.5	928.4	910.9	897.9
20°	1237.4	1184.8	1140.8	1062.0	989.5	943.2	910.1	888.9	865.0	846.1	835.8
22.5°	1180.7	1125.8	1065.9	977.9	921.4	884.2	854.7	830.4	814.2	799.4	790.1
25°	1100.3	1040.3	941.5	880.9	835.2	796.3	775.8	761.0	743.8	723.8	714.6
27.5°	1015.3	919.9	848.9	803.9	760.3	735.0	716.5	694.3	679.0	670.0	660.5
30°	951.7	856.4	800.9	751.8	720.9	692.9	671.2	658.7	643.9	628.4	622.2
32.5°	880.9	804.7	751.6	710.7	679.3	655.5	638.3	618.0	607.3	597.8	584.6
35°	792.9	735.2	686.6	653.6	623.9	604.4	584.4	572.4	553.0	545.0	539.8
37.5°	718.4	668.4	632.1	597.2	573.7	552.2	539.9	520.9	512.5	501.4	490.5
40°	676.4	627.2	592.5	563.9	537.6	521.6	506.2	490.8	478.2	473.0	459.9
42.5°	633.4	593.5	558.6	527.3	509.7	492.8	473.3	461.9	448.9	440.6	432.5
45°	574.1	538.7	509.0	483.3	463.9	446.2	433.6	414.7	407.3	390.7	383.9
47.5°	522.0	489.1	460.8	436.4	417.4	405.9	387.4	372.7	360.8	350.7	341.8
50°	485.0	457.6	430.2	408.5	391.3	374.8	355.9	348.4	330.2	325.0	319.9
52.5°	451.2	425.2	400.0	378.8	361.6	345.5	328.9	319.3	306.9	301.8	298.0
55°	403.9	378.8	354.7	335.9	318.7	302.2	292.0	279.9	274.2	270.2	265.6
57.5°	356.4	333.7	315.4	296.3	279.1	265.9	254.0	246.8	240.8	235.6	230.1
60°	326.2	304.4	287.9	270.2	252.5	241.7	232.5	223.9	217.1	209.1	206.8
62.5°	294.2	275.3	260.0	242.8	227.4	217.4	208.7	200.6	192.4	180.7	177.5
65°	250.2	235.4	219.4	205.1	191.4	181.7	169.1	160.0	156.5	155.4	154.8
67.5°	210.4	196.4	182.7	168.1	155.6	146.6	140.2	138.8	136.4	135.7	134.1
70°	183.9	170.8	157.1	143.4	131.4	129.7	127.4	125.1	122.3	121.1	119.9
72.5°	160.1	146.6	132.9	121.9	116.8	114.6	112.3	110.0	108.1	106.9	106.2
75°	122.9	110.3	101.1	97.1	94.3	92.6	89.1	87.4	86.3	84.6	83.9
77.5°	88.4	81.4	77.1	74.6	71.6	69.8	67.8	66.1	64.9	64.6	63.6
80°	67.4	64.0	61.1	57.7	56.6	54.2	53.7	52.0	52.5	50.9	50.9
82.5°	52.3	48.0	45.5	44.0	42.9	41.0	40.5	39.6	39.8	38.5	38.5
85°	26.9	25.7	24.5	23.4	23.4	21.7	22.3	21.7	21.7	20.6	20.0
87.5°	10.4	10.3	9.7	10.0	10.3	10.2	10.3	10.1	10.2	10.4	10.1
90°	8.9	10.6	12.1	13.5	15.0	16.4	17.4	18.3	19.2	20.1	20.8
92.5°	15.9	16.2	16.9	17.7	18.3	19.1	19.5	20.1	20.5	21.0	21.4
95°	29.4	26.9	28.2	29.5	30.8	32.1	33.0	33.9	34.9	35.7	36.1
97.5°	38.1	31.1	34.1	37.0	40.0	43.0	43.7	44.4	45.1	45.9	46.3
100°	45.5	34.4	37.5	40.6	43.8	46.9	48.4	49.9	51.3	52.8	53.6
102.5°	167.8	152.2	126.2	100.2	74.2	48.2	50.1	52.0	53.9	55.8	57.0
105°	272.1	249.9	199.9	150.0	100.1	50.2	52.2	54.2	56.2	58.2	59.6
107.5°	337.4	309.7	249.9	189.9	130.1	70.3	68.2	66.1	64.1	62.1	61.4
110°	379.8	355.3	302.5	249.7	196.8	144.0	125.7	107.4	89.1	70.9	62.1



TEST NUMBER: P331833-935

CATALOG NUMBER: S122RDIW-S865D970U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	420.2	415.3	402.3	389.3	376.2	363.2	296.4	229.7	163.1	96.3	63.3
115°	485.5	489.3	493.9	498.4	503.1	507.6	422.9	338.3	253.7	169.0	120.1
117.5°	546.4	549.7	552.8	555.9	559.1	562.2	541.7	521.2	500.8	480.4	448.5
120°	586.9	589.9	593.1	596.5	599.8	603.0	605.3	607.4	609.6	611.8	600.5
122.5°	624.3	627.6	631.1	634.7	638.3	641.9	643.2	644.5	645.8	647.1	645.4
125°	678.4	681.3	684.8	688.3	691.7	695.2	696.5	697.8	699.0	700.3	701.2
127.5°	730.2	732.9	735.5	738.0	740.6	743.2	745.1	747.0	748.8	750.7	751.7
130°	763.6	766.1	768.1	770.2	772.1	774.2	776.2	778.2	780.2	782.2	783.2
132.5°	794.8	797.0	799.1	801.1	803.1	805.1	806.8	808.6	810.3	812.0	812.8
135°	839.4	841.6	843.3	844.9	846.5	848.3	850.1	851.9	853.7	855.5	856.3
137.5°	879.1	881.1	883.0	884.8	886.7	888.6	890.4	892.1	893.9	895.7	896.3
140°	905.1	906.8	908.8	910.9	912.8	914.9	916.5	918.2	919.8	921.4	921.8
142.5°	928.2	930.0	932.3	934.6	936.9	939.2	940.7	942.2	943.7	945.2	945.5
145°	959.4	960.9	964.0	967.1	970.2	973.3	974.6	975.9	977.1	978.4	978.6
147.5°	989.7	990.9	994.0	997.0	1000.1	1003.2	1004.2	1005.1	1006.1	1007.0	1007.1
150°	1008.5	1009.3	1012.2	1015.1	1018.0	1021.0	1022.1	1023.2	1024.2	1025.4	1025.5
152.5°	1025.6	1026.3	1029.1	1031.9	1034.7	1037.4	1038.5	1039.7	1040.7	1041.8	1041.8
155°	1050.6	1050.9	1053.1	1055.2	1057.5	1059.6	1060.8	1061.9	1062.9	1064.0	1063.9
157.5°	1071.9	1071.9	1073.5	1075.0	1076.5	1078.1	1079.3	1080.6	1081.8	1083.1	1083.0
160°	1084.9	1084.9	1086.0	1087.1	1088.2	1089.3	1090.4	1091.5	1092.5	1093.6	1093.6
162.5°	1095.5	1095.4	1096.3	1097.3	1098.2	1099.2	1100.4	1101.6	1102.9	1104.1	1104.0
165°	1109.6	1109.3	1109.8	1110.3	1110.9	1111.5	1112.8	1114.0	1115.3	1116.6	1116.6
167.5°	1120.1	1119.8	1120.3	1120.8	1121.4	1121.9	1123.1	1124.4	1125.7	1127.0	1126.8
170°	1126.0	1125.7	1126.0	1126.4	1126.8	1127.1	1128.4	1129.7	1130.9	1132.2	1132.0
172.5°	1130.0	1129.6	1130.0	1130.3	1130.7	1131.1	1132.4	1133.6	1134.9	1136.2	1136.0
175°	1134.4	1133.9	1134.3	1134.6	1135.0	1135.3	1136.6	1137.9	1139.2	1140.5	1140.2
177.5°	1136.2	1135.7	1135.9	1136.0	1136.2	1136.3	1137.4	1138.4	1139.4	1140.4	1140.3
180°	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0



TEST NUMBER: P331833-935

CATALOG NUMBER: S122RDIW-S865D970U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1578.8	1579.7	1578.3	1579.2	1578.3	1579.7	1578.8	1583.8	1584.8	1585.6	1584.8
5°	1471.0	1464.2	1463.0	1461.4	1463.0	1464.2	1471.0	1473.9	1476.2	1480.7	1488.8
7.5°	1342.4	1341.4	1338.5	1334.6	1338.5	1341.4	1342.4	1352.2	1359.9	1368.9	1385.3
10°	1259.6	1256.8	1256.3	1252.2	1256.3	1256.8	1259.6	1272.2	1281.3	1293.9	1316.2
12.5°	1162.8	1144.4	1142.5	1132.5	1142.5	1144.4	1162.8	1179.0	1203.7	1215.8	1239.4
15°	990.1	986.6	975.2	967.8	975.2	986.6	990.1	1003.8	1012.9	1046.0	1084.3
17.5°	891.3	880.1	876.6	874.9	876.6	880.1	891.3	897.9	910.9	928.4	951.5
20°	827.8	817.5	815.8	814.7	815.8	817.5	827.8	835.8	846.1	865.0	888.9
22.5°	783.9	773.2	768.7	765.3	768.7	773.2	783.9	790.1	799.4	814.2	830.4
25°	708.9	705.0	702.7	701.5	702.7	705.0	708.9	714.6	723.8	743.8	761.0
27.5°	650.3	641.5	639.8	636.9	639.8	641.5	650.3	660.5	670.0	679.0	694.3
30°	617.0	614.2	610.1	606.7	610.1	614.2	617.0	622.2	628.4	643.9	658.7
32.5°	577.6	575.3	571.7	570.2	571.7	575.3	577.6	584.6	597.8	607.3	618.0
35°	534.2	526.2	522.7	517.5	522.7	526.2	534.2	539.8	545.0	553.0	572.4
37.5°	488.1	483.9	479.1	480.8	479.1	483.9	488.1	490.5	501.4	512.5	520.9
40°	452.5	449.6	448.5	447.9	448.5	449.6	452.5	459.9	473.0	478.2	490.8
42.5°	424.1	416.2	413.3	413.1	413.3	416.2	424.1	432.5	440.6	448.9	461.9
45°	381.1	373.6	368.5	369.0	368.5	373.6	381.1	383.9	390.7	407.3	414.7
47.5°	336.9	336.7	333.6	334.6	333.6	336.7	336.9	341.8	350.7	360.8	372.7
50°	315.9	312.5	310.2	310.7	310.2	312.5	315.9	319.9	325.0	330.2	348.4
52.5°	295.8	292.8	291.0	293.4	291.0	292.8	295.8	298.0	301.8	306.9	319.3
55°	262.8	259.3	258.8	258.2	258.8	259.3	262.8	265.6	270.2	274.2	279.9
57.5°	225.9	223.6	220.2	218.7	220.2	223.6	225.9	230.1	235.6	240.8	246.8
60°	199.4	194.8	189.1	188.6	189.1	194.8	199.4	206.8	209.1	217.1	223.9
62.5°	175.1	174.3	173.1	173.0	173.1	174.3	175.1	177.5	180.7	192.4	200.6
65°	153.7	153.1	153.7	154.2	153.7	153.1	153.7	154.8	155.4	156.5	160.0
67.5°	133.9	132.9	131.8	132.3	131.8	132.9	133.9	134.1	135.7	136.4	138.8
70°	118.8	118.2	117.7	117.7	117.7	118.2	118.8	119.9	121.1	122.3	125.1
72.5°	104.2	104.1	103.5	103.1	103.5	104.1	104.2	106.2	106.9	108.1	110.0
75°	83.4	82.2	82.2	82.2	82.2	82.2	83.4	83.9	84.6	86.3	87.4
77.5°	63.5	62.9	62.4	61.9	62.4	62.9	63.5	63.6	64.6	64.9	66.1
80°	50.3	49.7	49.2	49.2	49.2	49.7	50.3	50.9	50.9	52.5	52.0
82.5°	38.4	37.8	37.7	37.3	37.7	37.8	38.4	38.5	38.5	39.8	39.6
85°	20.6	21.1	20.6	21.7	20.6	21.1	20.6	20.0	20.6	21.7	21.7
87.5°	10.2	9.8	10.3	9.9	10.3	9.8	10.2	10.1	10.4	10.2	10.1
90°	21.1	21.4	21.9	22.2	21.9	21.4	21.1	20.8	20.1	19.2	18.3
92.5°	21.5	21.8	22.0	22.2	22.0	21.8	21.5	21.4	21.0	20.5	20.1
95°	35.9	35.7	35.6	35.4	35.6	35.7	35.9	36.1	35.7	34.9	33.9
97.5°	46.6	46.8	47.0	47.2	47.0	46.8	46.6	46.3	45.9	45.1	44.4
100°	54.0	54.4	54.8	55.1	54.8	54.4	54.0	53.6	52.8	51.3	49.9
102.5°	57.5	58.0	58.5	59.1	58.5	58.0	57.5	57.0	55.8	53.9	52.0
105°	60.4	61.0	61.8	62.5	61.8	61.0	60.4	59.6	58.2	56.2	54.2
107.5°	62.2	62.9	63.6	64.3	63.6	62.9	62.2	61.4	62.1	64.1	66.1
110°	62.8	63.5	64.2	65.0	64.2	63.5	62.8	62.1	70.9	89.1	107.4



TEST NUMBER: P331833-935

CATALOG NUMBER: S122RDIW-S865D970U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	63.9	64.5	65.1	65.7	65.1	64.5	63.9	63.3	96.3	163.1	229.7
115°	106.9	93.8	80.6	67.5	80.6	93.8	106.9	120.1	169.0	253.7	338.3
117.5°	405.2	362.0	318.7	275.4	318.7	362.0	405.2	448.5	480.4	500.8	521.2
120°	575.9	551.2	526.5	501.9	526.5	551.2	575.9	600.5	611.8	609.6	607.4
122.5°	640.6	635.8	631.0	626.3	631.0	635.8	640.6	645.4	647.1	645.8	644.5
125°	701.8	702.3	702.8	703.4	702.8	702.3	701.8	701.2	700.3	699.0	697.8
127.5°	751.8	751.9	752.0	752.1	752.0	751.9	751.8	751.7	750.7	748.8	747.0
130°	782.9	782.7	782.6	782.4	782.6	782.7	782.9	783.2	782.2	780.2	778.2
132.5°	812.5	812.4	812.2	812.0	812.2	812.4	812.5	812.8	812.0	810.3	808.6
135°	855.9	855.5	855.1	854.8	855.1	855.5	855.9	856.3	855.5	853.7	851.9
137.5°	895.7	895.0	894.4	893.8	894.4	895.0	895.7	896.3	895.7	893.9	892.1
140°	920.9	920.0	919.0	918.2	919.0	920.0	920.9	921.8	921.4	919.8	918.2
142.5°	944.6	943.7	942.8	941.8	942.8	943.7	944.6	945.5	945.2	943.7	942.2
145°	977.7	976.7	975.9	974.9	975.9	976.7	977.7	978.6	978.4	977.1	975.9
147.5°	1006.3	1005.6	1004.8	1004.0	1004.8	1005.6	1006.3	1007.1	1007.0	1006.1	1005.1
150°	1024.6	1023.6	1022.7	1021.8	1022.7	1023.6	1024.6	1025.5	1025.4	1024.2	1023.2
152.5°	1040.6	1039.4	1038.2	1037.0	1038.2	1039.4	1040.6	1041.8	1041.8	1040.7	1039.7
155°	1062.4	1060.9	1059.5	1058.0	1059.5	1060.9	1062.4	1063.9	1064.0	1062.9	1061.9
157.5°	1081.5	1080.1	1078.7	1077.3	1078.7	1080.1	1081.5	1083.0	1083.1	1081.8	1080.6
160°	1092.3	1091.0	1089.8	1088.5	1089.8	1091.0	1092.3	1093.6	1093.6	1092.5	1091.5
162.5°	1102.3	1100.8	1099.2	1097.7	1099.2	1100.8	1102.3	1104.0	1104.1	1102.9	1101.6
165°	1115.3	1114.0	1112.8	1111.5	1112.8	1114.0	1115.3	1116.6	1116.6	1115.3	1114.0
167.5°	1125.2	1123.5	1121.9	1120.2	1121.9	1123.5	1125.2	1126.8	1127.0	1125.7	1124.4
170°	1130.4	1128.8	1127.1	1125.5	1127.1	1128.8	1130.4	1132.0	1132.2	1130.9	1129.7
172.5°	1134.4	1132.7	1131.1	1129.5	1131.1	1132.7	1134.4	1136.0	1136.2	1134.9	1133.6
175°	1138.3	1136.5	1134.7	1132.9	1134.7	1136.5	1138.3	1140.2	1140.5	1139.2	1137.9
177.5°	1138.9	1137.6	1136.3	1135.1	1136.3	1137.6	1138.9	1140.3	1140.4	1139.4	1138.4
180°	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0



TEST NUMBER: P331833-935

CATALOG NUMBER: S122RDIW-S865D970U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1581.1	1587.5	1597.1	1602.6	1611.7	1617.6	1620.8	1626.8	1630.0	1641.4	1653.3
5°	1492.7	1501.9	1517.9	1532.8	1548.8	1565.3	1577.3	1591.0	1603.6	1625.3	1648.1
7.5°	1391.5	1404.2	1429.0	1452.7	1480.5	1504.0	1524.7	1548.1	1569.0	1600.1	1632.5
10°	1315.7	1337.9	1370.5	1392.8	1429.3	1452.8	1485.3	1511.1	1540.2	1581.3	1617.9
12.5°	1250.3	1277.1	1303.3	1334.3	1367.2	1406.2	1441.9	1474.9	1509.6	1552.0	1595.0
15°	1131.7	1170.5	1211.1	1242.5	1287.1	1328.3	1369.9	1414.5	1456.7	1507.6	1563.6
17.5°	979.0	1024.1	1092.3	1146.1	1198.4	1239.7	1291.3	1345.2	1395.1	1456.4	1518.7
20°	910.1	943.2	989.5	1062.0	1140.8	1184.8	1237.4	1296.8	1353.9	1420.7	1487.6
22.5°	854.7	884.2	921.4	977.9	1065.9	1125.8	1180.7	1241.0	1307.3	1375.5	1449.7
25°	775.8	796.3	835.2	880.9	941.5	1040.3	1100.3	1160.8	1232.9	1306.0	1390.5
27.5°	716.5	735.0	760.3	803.9	848.9	919.9	1015.3	1081.3	1153.1	1235.4	1323.1
30°	671.2	692.9	720.9	751.8	800.9	856.4	951.7	1028.3	1099.2	1183.7	1277.4
32.5°	638.3	655.5	679.3	710.7	751.6	804.7	880.9	973.9	1042.9	1132.0	1229.9
35°	584.4	604.4	623.9	653.6	686.6	735.2	792.9	892.3	960.9	1048.9	1147.1
37.5°	539.9	552.2	573.7	597.2	632.1	668.4	718.4	807.5	881.8	968.1	1068.7
40°	506.2	521.6	537.6	563.9	592.5	627.2	676.4	742.7	827.8	912.3	1010.6
42.5°	473.3	492.8	509.7	527.3	558.6	593.5	633.4	689.7	776.6	856.6	952.1
45°	433.6	446.2	463.9	483.3	509.0	538.7	574.1	623.3	706.7	775.8	865.5
47.5°	387.4	405.9	417.4	436.4	460.8	489.1	522.0	564.6	632.1	696.8	780.1
50°	355.9	374.8	391.3	408.5	430.2	457.6	485.0	526.2	580.4	648.4	726.1
52.5°	328.9	345.5	361.6	378.8	400.0	425.2	451.2	487.3	533.8	596.3	671.8
55°	292.0	302.2	318.7	335.9	354.7	378.8	403.9	434.2	474.2	526.8	587.9
57.5°	254.0	265.9	279.1	296.3	315.4	333.7	356.4	383.7	415.3	462.9	515.2
60°	232.5	241.7	252.5	270.2	287.9	304.4	326.2	349.0	378.8	419.9	464.4
62.5°	208.7	217.4	227.4	242.8	260.0	275.3	294.2	318.4	343.5	381.1	420.1
65°	169.1	181.7	191.4	205.1	219.4	235.4	250.2	269.7	292.0	321.7	356.5
67.5°	140.2	146.6	155.6	168.1	182.7	196.4	210.4	225.7	245.0	267.9	295.6
70°	127.4	129.7	131.4	143.4	157.1	170.8	183.9	198.2	214.8	233.7	257.6
72.5°	112.3	114.6	116.8	121.9	132.9	146.6	160.1	170.8	186.5	202.1	221.5
75°	89.1	92.6	94.3	97.1	101.1	110.3	122.9	133.1	142.2	154.2	169.7
77.5°	67.8	69.8	71.6	74.6	77.1	81.4	88.4	97.7	106.2	113.2	123.8
80°	53.7	54.2	56.6	57.7	61.1	64.0	67.4	74.8	83.4	86.3	93.7
82.5°	40.5	41.0	42.9	44.0	45.5	48.0	52.3	54.2	61.0	64.7	69.5
85°	22.3	21.7	23.4	23.4	24.5	25.7	26.9	29.7	31.4	36.0	37.1
87.5°	10.3	10.2	10.3	10.0	9.7	10.3	10.4	10.5	11.0	12.0	13.4
90°	17.4	16.4	15.0	13.5	12.1	10.6	8.9	6.9	4.8	2.8	0.9
92.5°	19.5	19.1	18.3	17.7	16.9	16.2	15.9	16.1	16.3	16.4	16.6
95°	33.0	32.1	30.8	29.5	28.2	26.9	29.4	35.4	41.4	47.4	53.5
97.5°	43.7	43.0	40.0	37.0	34.1	31.1	38.1	55.1	72.2	89.1	106.2
100°	48.4	46.9	43.8	40.6	37.5	34.4	45.5	70.5	95.5	120.5	145.6
102.5°	50.1	48.2	74.2	100.2	126.2	152.2	167.8	173.1	178.5	183.7	189.1
105°	52.2	50.2	100.1	150.0	199.9	249.9	272.1	266.6	261.1	255.6	250.1
107.5°	68.2	70.3	130.1	189.9	249.9	309.7	337.4	332.9	328.6	324.2	319.7
110°	125.7	144.0	196.8	249.7	302.5	355.3	379.8	376.0	372.1	368.3	364.5



TEST NUMBER: P331833-935

CATALOG NUMBER: S122RDIW-S865D970U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	296.4	363.2	376.2	389.3	402.3	415.3	420.2	416.8	413.4	410.0	406.6
115°	422.9	507.6	503.1	498.4	493.9	489.3	485.5	482.4	479.3	476.1	473.0
117.5°	541.7	562.2	559.1	555.9	552.8	549.7	546.4	542.9	539.4	536.0	532.4
120°	605.3	603.0	599.8	596.5	593.1	589.9	586.9	584.1	581.3	578.7	575.9
122.5°	643.2	641.9	638.3	634.7	631.1	627.6	624.3	621.4	618.5	615.6	612.8
125°	696.5	695.2	691.7	688.3	684.8	681.3	678.4	676.0	673.6	671.2	668.8
127.5°	745.1	743.2	740.6	738.0	735.5	732.9	730.2	727.6	725.0	722.4	719.7
130°	776.2	774.2	772.1	770.2	768.1	766.1	763.6	760.7	757.9	754.9	752.0
132.5°	806.8	805.1	803.1	801.1	799.1	797.0	794.8	792.3	789.9	787.4	784.9
135°	850.1	848.3	846.5	844.9	843.3	841.6	839.4	836.5	833.5	830.6	827.7
137.5°	890.4	888.6	886.7	884.8	883.0	881.1	879.1	877.1	875.0	873.0	870.9
140°	916.5	914.9	912.8	910.9	908.8	906.8	905.1	903.6	902.2	900.7	899.2
142.5°	940.7	939.2	936.9	934.6	932.3	930.0	928.2	926.9	925.6	924.2	922.9
145°	974.6	973.3	970.2	967.1	964.0	960.9	959.4	959.6	959.8	959.9	960.1
147.5°	1004.2	1003.2	1000.1	997.0	994.0	990.9	989.7	990.4	991.1	991.8	992.6
150°	1022.1	1021.0	1018.0	1015.1	1012.2	1009.3	1008.5	1009.8	1011.0	1012.3	1013.6
152.5°	1038.5	1037.4	1034.7	1031.9	1029.1	1026.3	1025.6	1027.1	1028.5	1029.9	1031.4
155°	1060.8	1059.6	1057.5	1055.2	1053.1	1050.9	1050.6	1052.2	1053.9	1055.5	1057.2
157.5°	1079.3	1078.1	1076.5	1075.0	1073.5	1071.9	1071.9	1073.2	1074.6	1076.1	1077.5
160°	1090.4	1089.3	1088.2	1087.1	1086.0	1084.9	1084.9	1086.0	1087.1	1088.2	1089.3
162.5°	1100.4	1099.2	1098.2	1097.3	1096.3	1095.4	1095.5	1096.5	1097.6	1098.7	1099.8
165°	1112.8	1111.5	1110.9	1110.3	1109.8	1109.3	1109.6	1110.7	1111.7	1112.8	1114.0
167.5°	1123.1	1121.9	1121.4	1120.8	1120.3	1119.8	1120.1	1121.2	1122.3	1123.3	1124.5
170°	1128.4	1127.1	1126.8	1126.4	1126.0	1125.7	1126.0	1127.1	1128.3	1129.3	1130.4
172.5°	1132.4	1131.1	1130.7	1130.3	1130.0	1129.6	1130.0	1131.1	1132.1	1133.2	1134.4
175°	1136.6	1135.3	1135.0	1134.6	1134.3	1133.9	1134.4	1135.7	1136.9	1138.2	1139.4
177.5°	1137.4	1136.3	1136.2	1136.0	1135.9	1135.7	1136.2	1137.2	1138.2	1139.3	1140.3
180°	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0



TEST NUMBER: P331833-935

CATALOG NUMBER: S122RDIW-S865D970U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1653.7	1655.1	1664.2	1668.4	1676.6	1679.8	1683.4	1682.6	1682.6	1684.4	1697.2
5°	1657.3	1668.7	1685.8	1702.5	1718.4	1732.2	1741.3	1750.4	1753.9	1770.4	1785.3
7.5°	1651.3	1672.4	1700.7	1726.0	1756.3	1779.9	1799.6	1817.2	1829.4	1853.5	1878.2
10°	1643.6	1673.3	1705.3	1737.8	1779.5	1810.9	1843.0	1867.5	1875.5	1911.5	1932.1
12.5°	1628.1	1667.8	1708.5	1750.7	1791.4	1834.7	1869.9	1894.5	1922.6	1954.9	1992.9
15°	1604.7	1650.5	1703.6	1757.8	1816.1	1868.6	1906.3	1949.2	1980.0	2015.5	2048.6
17.5°	1571.2	1630.1	1697.6	1760.5	1827.9	1884.3	1936.2	1977.3	1999.0	2019.2	2024.1
20°	1544.7	1608.2	1687.6	1761.9	1829.3	1894.4	1945.8	1980.0	1985.8	1986.3	1956.1
22.5°	1516.0	1587.6	1670.7	1746.7	1827.4	1899.9	1939.8	1954.5	1931.8	1893.1	1834.5
25°	1463.0	1545.9	1642.4	1729.2	1817.2	1885.8	1899.5	1873.8	1794.4	1711.0	1605.3
27.5°	1405.7	1498.8	1602.3	1698.8	1792.6	1835.0	1805.5	1712.8	1569.8	1445.4	1294.8
30°	1363.7	1468.2	1569.9	1677.8	1764.7	1783.0	1715.0	1578.5	1411.6	1224.3	1074.0
32.5°	1315.7	1425.2	1537.0	1648.6	1721.3	1703.4	1591.1	1423.1	1227.4	1043.3	901.3
35°	1247.1	1360.2	1480.7	1592.8	1639.0	1561.9	1394.0	1175.1	975.2	803.2	705.5
37.5°	1167.9	1291.1	1416.4	1519.2	1516.0	1387.4	1158.6	932.8	764.7	663.1	593.5
40°	1111.7	1236.2	1371.7	1458.4	1421.3	1254.0	1006.0	792.9	670.1	589.0	538.1
42.5°	1057.8	1182.8	1317.2	1386.3	1321.7	1115.9	868.9	702.0	600.6	537.4	496.1
45°	966.0	1098.0	1222.5	1260.8	1145.4	918.6	702.7	581.6	514.2	467.3	438.8
47.5°	876.3	1006.2	1119.8	1120.5	964.4	744.9	592.8	503.3	445.7	409.5	388.7
50°	821.5	944.9	1040.3	1025.5	848.3	662.7	530.1	453.1	405.0	377.0	355.3
52.5°	759.8	879.5	962.2	919.9	750.1	583.2	473.9	409.1	369.4	345.1	325.6
55°	670.1	776.4	834.7	770.7	611.8	485.0	400.5	349.7	319.9	299.4	282.8
57.5°	582.0	669.7	706.4	631.8	503.9	402.2	338.8	300.6	271.1	256.4	247.8
60°	526.8	601.6	627.2	545.0	438.2	351.9	299.9	264.5	242.8	233.1	224.5
62.5°	472.3	533.5	544.1	468.6	381.9	308.1	263.4	233.4	219.0	209.7	201.6
65°	391.9	435.9	430.8	370.2	302.2	244.5	212.0	193.6	182.8	169.7	155.4
67.5°	322.6	349.5	333.3	287.9	230.7	190.0	168.8	154.9	141.5	129.0	125.7
70°	278.8	294.2	277.1	235.4	189.1	159.4	142.2	125.7	117.7	114.9	109.7
72.5°	236.8	242.1	223.6	187.9	153.9	132.0	115.3	106.0	101.7	99.3	96.0
75°	177.7	173.7	157.6	129.7	106.9	92.0	86.9	83.4	80.6	78.3	76.5
77.5°	124.8	118.9	104.7	86.4	74.4	67.3	64.2	62.4	61.0	59.8	58.1
80°	93.7	89.7	75.4	61.7	56.6	53.1	51.4	49.2	49.2	48.0	46.2
82.5°	68.5	64.1	51.7	45.2	42.4	40.3	39.1	37.7	37.3	37.5	36.2
85°	36.0	29.1	25.7	24.5	22.8	21.7	22.3	21.1	21.1	21.1	20.6
87.5°	11.5	9.6	9.6	9.6	10.3	10.7	10.5	10.8	11.5	11.3	11.9
90°	2.8	4.8	6.9	8.9	10.6	12.1	13.5	15.0	16.4	17.4	18.3
92.5°	16.4	16.3	16.1	15.9	16.2	16.9	17.7	18.3	19.1	19.5	20.1
95°	47.4	41.4	35.4	29.4	26.9	28.2	29.5	30.8	32.1	33.0	33.9
97.5°	89.1	72.2	55.1	38.1	31.1	34.1	37.0	40.0	43.0	43.7	44.4
100°	120.5	95.5	70.5	45.5	34.4	37.5	40.6	43.8	46.9	48.4	49.9
102.5°	183.7	178.5	173.1	167.8	152.2	126.2	100.2	74.2	48.2	50.1	52.0
105°	255.6	261.1	266.6	272.1	249.9	199.9	150.0	100.1	50.2	52.2	54.2
107.5°	324.2	328.6	332.9	337.4	309.7	249.9	189.9	130.1	70.3	68.2	66.1
110°	368.3	372.1	376.0	379.8	355.3	302.5	249.7	196.8	144.0	125.7	107.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	410.0	413.4	416.8	420.2	415.3	402.3	389.3	376.2	363.2	296.4	229.7
115°	476.1	479.3	482.4	485.5	489.3	493.9	498.4	503.1	507.6	422.9	338.3
117.5°	536.0	539.4	542.9	546.4	549.7	552.8	555.9	559.1	562.2	541.7	521.2
120°	578.7	581.3	584.1	586.9	589.9	593.1	596.5	599.8	603.0	605.3	607.4
122.5°	615.6	618.5	621.4	624.3	627.6	631.1	634.7	638.3	641.9	643.2	644.5
125°	671.2	673.6	676.0	678.4	681.3	684.8	688.3	691.7	695.2	696.5	697.8
127.5°	722.4	725.0	727.6	730.2	732.9	735.5	738.0	740.6	743.2	745.1	747.0
130°	754.9	757.9	760.7	763.6	766.1	768.1	770.2	772.1	774.2	776.2	778.2
132.5°	787.4	789.9	792.3	794.8	797.0	799.1	801.1	803.1	805.1	806.8	808.6
135°	830.6	833.5	836.5	839.4	841.6	843.3	844.9	846.5	848.3	850.1	851.9
137.5°	873.0	875.0	877.1	879.1	881.1	883.0	884.8	886.7	888.6	890.4	892.1
140°	900.7	902.2	903.6	905.1	906.8	908.8	910.9	912.8	914.9	916.5	918.2
142.5°	924.2	925.6	926.9	928.2	930.0	932.3	934.6	936.9	939.2	940.7	942.2
145°	959.9	959.8	959.6	959.4	960.9	964.0	967.1	970.2	973.3	974.6	975.9
147.5°	991.8	991.1	990.4	989.7	990.9	994.0	997.0	1000.1	1003.2	1004.2	1005.1
150°	1012.3	1011.0	1009.8	1008.5	1009.3	1012.2	1015.1	1018.0	1021.0	1022.1	1023.2
152.5°	1029.9	1028.5	1027.1	1025.6	1026.3	1029.1	1031.9	1034.7	1037.4	1038.5	1039.7
155°	1055.5	1053.9	1052.2	1050.6	1050.9	1053.1	1055.2	1057.5	1059.6	1060.8	1061.9
157.5°	1076.1	1074.6	1073.2	1071.9	1071.9	1073.5	1075.0	1076.5	1078.1	1079.3	1080.6
160°	1088.2	1087.1	1086.0	1084.9	1084.9	1086.0	1087.1	1088.2	1089.3	1090.4	1091.5
162.5°	1098.7	1097.6	1096.5	1095.5	1095.4	1096.3	1097.3	1098.2	1099.2	1100.4	1101.6
165°	1112.8	1111.7	1110.7	1109.6	1109.3	1109.8	1110.3	1110.9	1111.5	1112.8	1114.0
167.5°	1123.3	1122.3	1121.2	1120.1	1119.8	1120.3	1120.8	1121.4	1121.9	1123.1	1124.4
170°	1129.3	1128.3	1127.1	1126.0	1125.7	1126.0	1126.4	1126.8	1127.1	1128.4	1129.7
172.5°	1133.2	1132.1	1131.1	1130.0	1129.6	1130.0	1130.3	1130.7	1131.1	1132.4	1133.6
175°	1138.2	1136.9	1135.7	1134.4	1133.9	1134.3	1134.6	1135.0	1135.3	1136.6	1137.9
177.5°	1139.3	1138.2	1137.2	1136.2	1135.7	1135.9	1136.0	1136.2	1136.3	1137.4	1138.4
180°	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1701.8	1707.7	1710.4	1710.4	1713.6	1712.3	1710.9
5°	1799.6	1810.4	1812.7	1823.0	1830.4	1828.1	1829.3
7.5°	1896.8	1914.3	1931.5	1939.4	1940.6	1945.2	1946.9
10°	1956.6	1970.9	1997.8	1993.7	2013.8	2025.2	2006.3
12.5°	2014.2	2033.5	2052.2	2057.3	2068.6	2072.3	2064.9
15°	2066.3	2076.6	2077.8	2074.9	2078.3	2075.4	2064.6
17.5°	2017.7	2001.0	1967.1	1951.1	1938.5	1919.8	1912.2
20°	1937.2	1888.1	1830.9	1808.1	1781.2	1728.7	1741.3
22.5°	1763.6	1707.5	1650.5	1583.7	1551.9	1502.0	1499.0
25°	1493.3	1396.8	1290.6	1216.2	1172.9	1123.2	1101.4
27.5°	1161.1	1039.5	952.4	908.4	868.2	828.8	827.2
30°	942.6	851.2	783.8	746.1	721.5	705.0	708.4
32.5°	794.5	731.9	686.5	655.1	637.0	624.5	624.3
35°	649.5	606.7	577.6	564.4	551.3	542.2	542.7
37.5°	555.9	530.1	513.9	499.4	491.2	486.7	484.2
40°	507.9	486.7	474.2	465.6	458.7	452.5	451.3
42.5°	469.9	452.5	439.9	433.2	426.7	422.3	421.1
45°	417.1	402.8	391.3	383.9	381.1	377.0	377.0
47.5°	371.0	357.0	348.0	343.4	338.5	335.8	335.7
50°	339.9	329.1	321.1	318.2	314.2	312.5	311.9
52.5°	312.0	303.9	298.3	296.3	294.5	292.4	292.7
55°	274.2	269.7	267.3	265.6	262.8	259.3	261.7
57.5°	242.4	238.4	232.3	226.9	224.3	221.9	222.8
60°	220.0	212.0	204.0	197.7	196.0	190.8	190.8
62.5°	191.6	180.4	170.6	167.0	165.3	162.9	162.5
65°	147.4	142.8	140.5	138.3	137.1	137.1	136.0
67.5°	122.2	120.3	117.8	117.3	116.1	115.7	115.4
70°	108.0	105.6	104.5	104.0	102.8	103.4	101.7
72.5°	94.3	92.5	92.2	90.7	90.1	90.1	88.9
75°	74.3	74.3	73.7	73.1	72.0	71.4	72.0
77.5°	57.2	57.3	56.2	56.1	56.0	56.1	55.5
80°	45.7	46.2	45.7	45.1	44.6	45.1	44.6
82.5°	36.1	35.3	35.2	35.0	35.0	34.6	34.5
85°	20.6	21.1	20.6	20.0	20.0	20.0	20.6
87.5°	11.6	11.8	11.9	12.0	12.1	12.1	11.8
90°	19.2	20.1	20.8	21.1	21.4	21.9	22.2
92.5°	20.5	21.0	21.4	21.5	21.8	22.0	22.2
95°	34.9	35.7	36.1	35.9	35.7	35.6	35.4
97.5°	45.1	45.9	46.3	46.6	46.8	47.0	47.2
100°	51.3	52.8	53.6	54.0	54.4	54.8	55.1
102.5°	53.9	55.8	57.0	57.5	58.0	58.5	59.1
105°	56.2	58.2	59.6	60.4	61.0	61.8	62.5
107.5°	64.1	62.1	61.4	62.2	62.9	63.6	64.3
110°	89.1	70.9	62.1	62.8	63.5	64.2	65.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	163.1	96.3	63.3	63.9	64.5	65.1	65.7
115°	253.7	169.0	120.1	106.9	93.8	80.6	67.5
117.5°	500.8	480.4	448.5	405.2	362.0	318.7	275.4
120°	609.6	611.8	600.5	575.9	551.2	526.5	501.9
122.5°	645.8	647.1	645.4	640.6	635.8	631.0	626.3
125°	699.0	700.3	701.2	701.8	702.3	702.8	703.4
127.5°	748.8	750.7	751.7	751.8	751.9	752.0	752.1
130°	780.2	782.2	783.2	782.9	782.7	782.6	782.4
132.5°	810.3	812.0	812.8	812.5	812.4	812.2	812.0
135°	853.7	855.5	856.3	855.9	855.5	855.1	854.8
137.5°	893.9	895.7	896.3	895.7	895.0	894.4	893.8
140°	919.8	921.4	921.8	920.9	920.0	919.0	918.2
142.5°	943.7	945.2	945.5	944.6	943.7	942.8	941.8
145°	977.1	978.4	978.6	977.7	976.7	975.9	974.9
147.5°	1006.1	1007.0	1007.1	1006.3	1005.6	1004.8	1004.0
150°	1024.2	1025.4	1025.5	1024.6	1023.6	1022.7	1021.8
152.5°	1040.7	1041.8	1041.8	1040.6	1039.4	1038.2	1037.0
155°	1062.9	1064.0	1063.9	1062.4	1060.9	1059.5	1058.0
157.5°	1081.8	1083.1	1083.0	1081.5	1080.1	1078.7	1077.3
160°	1092.5	1093.6	1093.6	1092.3	1091.0	1089.8	1088.5
162.5°	1102.9	1104.1	1104.0	1102.3	1100.8	1099.2	1097.7
165°	1115.3	1116.6	1116.6	1115.3	1114.0	1112.8	1111.5
167.5°	1125.7	1127.0	1126.8	1125.2	1123.5	1121.9	1120.2
170°	1130.9	1132.2	1132.0	1130.4	1128.8	1127.1	1125.5
172.5°	1134.9	1136.2	1136.0	1134.4	1132.7	1131.1	1129.5
175°	1139.2	1140.5	1140.2	1138.3	1136.5	1134.7	1132.9
177.5°	1139.4	1140.4	1140.3	1138.9	1137.6	1136.3	1135.1
180°	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0

(END OF REPORT)