

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: P333084-935

Luminaire Tested: **S124RDIW-S1020D1050U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333084-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDIW-S1020D1050U935-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1050 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6866.7 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

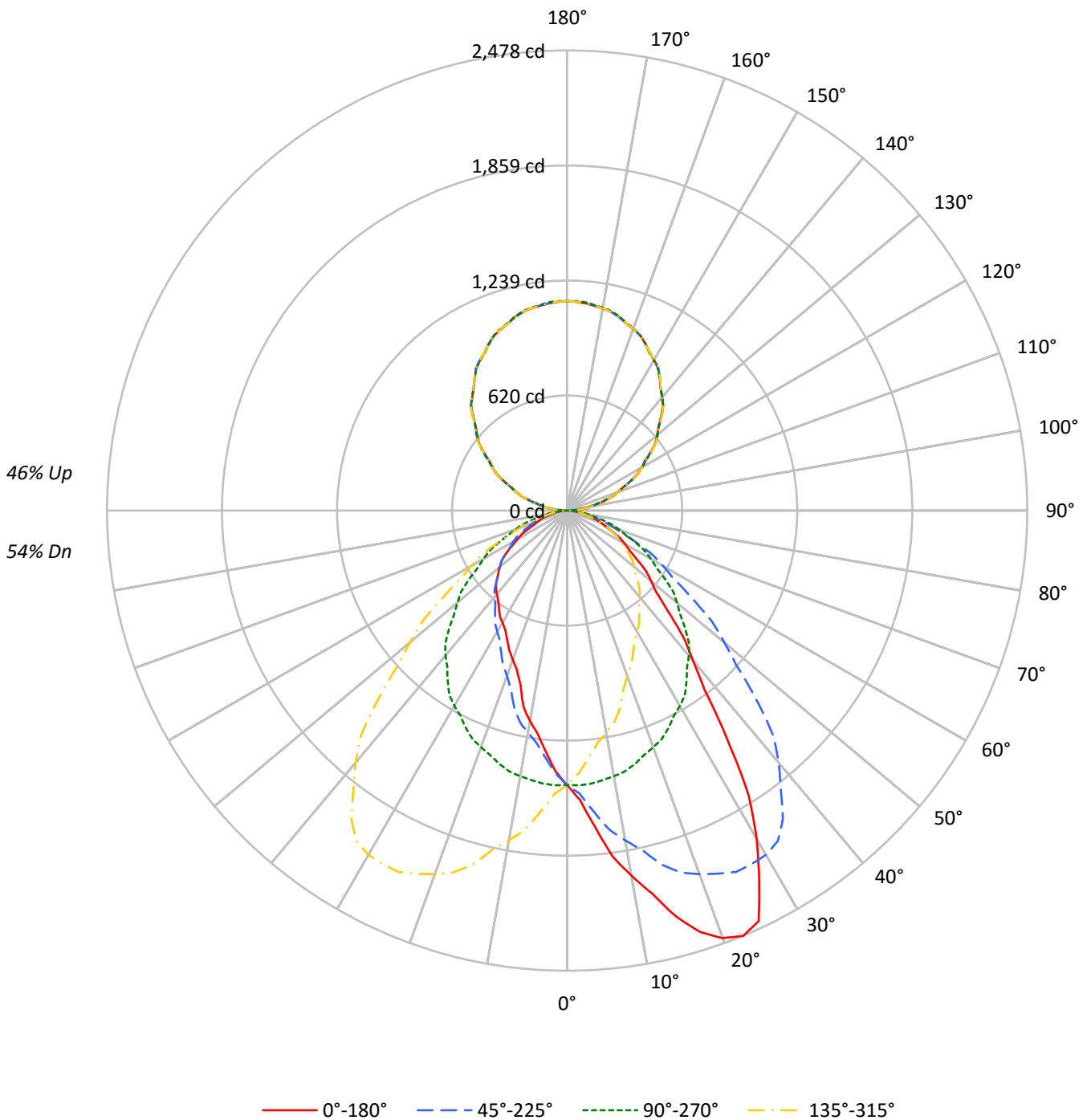
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54
1	99	95	91	88	92	88	85	82	76	74	72	65	63	61	54	53	52	47
2	91	84	78	73	84	78	73	68	67	63	60	57	54	52	48	46	44	40
3	83	74	67	61	77	69	63	58	60	55	51	51	48	45	43	41	38	34
4	76	66	58	52	71	61	55	49	53	48	44	46	42	39	39	36	33	30
5	70	59	51	45	65	55	48	43	48	42	38	41	37	34	35	32	29	26
6	65	53	45	39	60	50	42	37	43	38	33	37	33	30	32	29	26	23
7	60	48	40	35	56	45	38	33	39	34	30	34	30	26	29	26	23	21
8	56	44	36	31	52	41	34	29	36	30	26	31	27	24	27	24	21	19
9	52	40	32	27	48	38	31	26	33	28	24	29	25	21	25	22	19	17
10	49	37	29	25	45	35	28	24	31	25	22	27	22	19	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11926	11926	11926	11926
5°	13834	11962	10573	11962
10°	16365	11910	9437	11910
15°	18904	11800	8109	11800
20°	21047	11649	7332	11649
25°	21727	11500	6807	11500
30°	19020	11320	6492	11320
35°	14807	11052	6300	11052
40°	11102	10745	6198	10745
45°	8766	10255	6142	10255
50°	7401	9688	5966	9688
55°	6450	9064	5645	9064
60°	5804	8418	4997	8418
65°	5117	7721	4298	7721
70°	4607	6996	3878	6996
75°	3862	6201	3306	6201
80°	3268	5286	3096	5286
85°	2760	4131	2760	4131



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.1	2.1
10°-20°	431.8	6.3
20°-30°	675.3	9.8
30°-40°	750.8	10.9
40°-50°	666.1	9.7
50°-60°	519.0	7.6
60°-70°	339.8	4.9
70°-80°	167.1	2.4
80°-90°	44.6	0.6
90°-100°	74.4	1.1
100°-110°	220.4	3.2
110°-120°	374.0	5.4
120°-130°	493.2	7.2
130°-140°	553.9	8.1
140°-150°	544.3	7.9
150°-160°	457.8	6.7
160°-170°	304.6	4.4
170°-180°	106.6	1.6
0°-30°	1250.3	18.2
0°-40°	2001.0	29.1
0°-60°	3186.1	46.4
0°-90°	3737.7	54.4
90°-120°	668.7	9.7
90°-150°	2260.0	32.9
90°-180°	3129.0	45.6
0°-180°	6866.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1477	1477	1477	1477	1477	
5°	1707	1476	1305	1476	1707	173
15°	2262	1412	970	1412	2262	643
25°	2439	1291	764	1291	2439	1082
35°	1502	1121	639	1121	1502	942
45°	768	898	538	898	768	608
55°	458	644	401	644	458	417
65°	268	404	225	404	268	269
75°	124	199	106	199	124	136
85°	30	45	30	45	30	34
90°	26	3	26	3	26	15
95°	69	52	69	52	69	72
105°	213	203	213	203	213	224
115°	377	380	377	380	377	373
125°	550	554	550	554	550	490
135°	715	714	715	714	715	552
145°	869	868	869	868	869	544
155°	994	994	994	994	994	457
165°	1080	1082	1080	1082	1080	304
175°	1121	1126	1121	1126	1121	106
180°	1128	1128	1128	1128	1128	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1558.2	1562.5	1558.2	1557.8	1553.1	1551.6	1549.7	1543.5	1532.1	1525.4	1526.8
5°	1707.1	1721.9	1713.6	1712.4	1699.4	1686.3	1677.9	1658.9	1638.7	1625.0	1613.6
7.5°	1879.2	1887.7	1882.6	1874.2	1853.0	1841.0	1821.7	1796.6	1760.3	1732.5	1707.2
10°	1996.3	2003.5	2001.1	1985.6	1970.1	1938.6	1920.7	1885.7	1839.8	1803.5	1769.5
12.5°	2111.6	2119.2	2098.3	2098.9	2069.7	2044.8	2016.5	1972.3	1919.3	1872.5	1830.1
15°	2261.8	2252.3	2252.3	2240.4	2207.6	2173.2	2144.0	2097.6	2030.8	1974.9	1916.0
17.5°	2379.5	2382.7	2377.9	2349.8	2324.1	2288.4	2234.9	2180.7	2118.8	2043.8	1983.5
20°	2449.9	2449.9	2444.6	2425.5	2392.2	2354.1	2296.4	2237.4	2158.9	2083.3	2015.4
22.5°	2478.5	2480.4	2474.1	2458.3	2428.4	2391.2	2342.0	2282.2	2201.2	2116.1	2032.0
25°	2439.2	2450.5	2451.7	2447.5	2438.6	2416.0	2373.7	2312.4	2239.8	2147.5	2057.0
27.5°	2239.5	2253.8	2266.2	2286.8	2314.2	2328.5	2330.4	2299.2	2235.8	2147.1	2056.0
30°	2040.4	2052.3	2091.0	2141.6	2180.8	2216.6	2247.6	2255.8	2220.2	2140.4	2044.5
32.5°	1819.5	1835.7	1874.3	1928.7	1994.2	2054.7	2124.2	2159.6	2158.7	2110.8	2022.1
35°	1502.4	1514.2	1550.0	1607.1	1685.7	1775.6	1885.7	1971.3	2029.6	2025.5	1971.3
37.5°	1211.6	1225.0	1261.1	1308.5	1384.7	1496.0	1602.6	1720.6	1828.5	1889.1	1871.0
40°	1053.5	1054.1	1089.3	1138.1	1209.4	1306.5	1422.5	1553.5	1673.7	1771.9	1791.0
42.5°	928.8	928.8	952.1	1004.7	1056.2	1147.5	1258.3	1388.3	1529.0	1642.4	1692.9
45°	767.8	773.2	792.2	823.8	864.3	941.6	1030.3	1151.2	1308.9	1443.4	1527.3
47.5°	650.2	658.1	670.2	695.9	728.1	779.7	853.1	961.7	1089.9	1237.9	1357.4
50°	589.3	590.5	605.9	620.2	648.2	689.2	753.5	844.0	961.8	1104.1	1236.8
52.5°	536.9	536.7	546.0	564.0	586.8	618.8	670.7	753.0	857.6	985.1	1122.1
55°	458.3	461.3	468.5	482.7	500.0	522.6	563.7	625.6	707.7	816.7	941.1
57.5°	398.6	400.1	405.7	411.7	427.6	444.0	474.8	517.8	587.1	676.3	792.2
60°	359.5	360.1	361.9	370.8	383.3	398.8	419.7	455.9	514.3	595.8	687.5
62.5°	321.4	322.4	325.2	331.7	341.4	352.1	373.9	403.1	451.4	521.1	603.6
65°	267.9	268.5	272.6	275.0	282.8	292.2	308.3	328.0	361.3	419.7	482.2
67.5°	223.8	223.8	224.0	227.2	232.6	238.9	248.6	264.2	289.4	325.2	380.3
70°	195.2	195.2	196.4	198.2	201.2	206.6	211.9	223.8	242.3	271.4	313.7
72.5°	168.6	169.0	170.2	170.6	172.1	176.5	180.5	188.1	201.8	223.8	258.0
75°	123.8	125.6	128.5	131.0	133.9	133.4	137.5	142.2	146.5	159.5	179.2
77.5°	92.1	91.2	91.5	93.6	93.9	94.5	97.5	101.2	104.3	110.5	117.5
80°	70.3	70.3	72.0	72.6	72.0	72.6	75.6	77.4	78.6	80.9	87.5
82.5°	53.1	54.1	53.5	54.1	54.4	55.0	57.5	57.9	59.1	60.0	62.8
85°	29.8	30.4	30.9	29.8	29.8	29.8	30.9	31.5	32.7	32.1	33.3
87.5°	15.7	15.2	15.6	15.5	15.8	15.2	15.5	16.2	15.0	15.2	15.0
90°	26.2	25.7	25.4	25.0	24.6	23.8	22.6	21.5	20.3	19.2	17.7
92.5°	38.7	38.5	38.2	38.1	37.8	37.4	36.6	35.9	35.2	34.5	33.5
95°	68.9	68.9	68.9	68.9	68.9	68.6	68.0	67.4	66.9	66.3	64.9
97.5°	108.0	108.0	108.0	108.0	108.0	107.6	106.9	106.2	105.6	104.9	103.2
100°	135.2	135.2	135.2	135.2	135.2	135.0	134.6	134.2	133.8	133.5	131.7
102.5°	165.9	165.7	165.6	165.4	165.3	165.0	164.4	163.8	163.3	162.7	161.2
105°	212.8	212.2	211.6	211.1	210.5	209.9	209.3	208.8	208.2	207.6	206.8
107.5°	258.6	258.6	258.6	258.6	258.6	258.5	257.9	257.4	256.8	256.2	256.1
110°	291.4	290.8	290.2	289.6	289.0	288.9	289.3	289.6	290.1	290.4	290.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	324.9	324.7	324.6	324.5	324.3	324.3	324.4	324.5	324.6	324.7	325.0
115°	376.8	377.0	377.2	377.4	377.5	377.8	378.0	378.2	378.3	378.6	378.9
117.5°	426.4	426.7	427.1	427.5	427.9	428.4	429.0	429.7	430.4	431.0	431.4
120°	464.0	463.6	463.2	462.9	462.4	462.8	463.7	464.7	465.7	466.7	467.3
122.5°	495.4	496.1	496.8	497.5	498.2	498.9	499.6	500.2	500.8	501.5	501.8
125°	549.5	549.9	550.3	550.7	551.0	551.5	551.8	552.2	552.6	553.0	553.2
127.5°	599.6	599.9	600.2	600.5	600.8	601.2	601.6	601.9	602.4	602.7	603.0
130°	632.4	633.2	634.0	634.7	635.5	636.0	636.5	636.8	637.2	637.6	637.6
132.5°	667.3	667.5	667.9	668.2	668.5	668.8	669.3	669.6	670.0	670.4	670.5
135°	715.2	715.8	716.4	717.0	717.6	718.1	718.4	718.8	719.2	719.6	719.6
137.5°	765.6	765.5	765.4	765.3	765.2	765.3	765.9	766.4	766.9	767.4	767.1
140°	796.3	796.5	796.8	796.9	797.1	797.3	797.5	797.7	797.9	798.1	798.1
142.5°	827.1	827.1	827.2	827.2	827.2	827.2	827.2	827.3	827.3	827.4	827.6
145°	868.7	869.4	869.9	870.5	871.1	871.4	871.7	871.8	872.0	872.2	872.0
147.5°	910.9	911.1	911.4	911.5	911.7	911.9	912.1	912.2	912.4	912.5	912.7
150°	936.8	936.9	937.2	937.4	937.5	937.6	937.6	937.6	937.6	937.6	937.6
152.5°	960.5	961.0	961.5	962.0	962.5	962.5	962.1	961.6	961.1	960.7	960.5
155°	993.5	994.3	995.1	995.8	996.6	996.6	995.8	995.1	994.3	993.5	993.7
157.5°	1023.0	1023.6	1024.2	1024.9	1025.6	1025.6	1025.0	1024.5	1023.9	1023.3	1023.3
160°	1039.7	1040.7	1041.6	1042.6	1043.5	1043.8	1043.2	1042.6	1042.0	1041.5	1041.6
162.5°	1057.1	1058.1	1059.1	1060.1	1061.0	1061.0	1059.9	1058.9	1057.8	1056.8	1057.0
165°	1079.8	1080.6	1081.3	1082.1	1082.9	1082.7	1081.6	1080.4	1079.3	1078.1	1078.5
167.5°	1096.1	1097.3	1098.5	1099.7	1100.9	1100.9	1099.7	1098.5	1097.3	1096.2	1096.1
170°	1105.1	1106.5	1107.8	1109.2	1110.5	1110.6	1109.5	1108.3	1107.2	1106.0	1105.8
172.5°	1112.8	1114.1	1115.5	1116.9	1118.2	1118.3	1116.9	1115.6	1114.3	1112.9	1112.9
175°	1120.8	1122.1	1123.5	1124.9	1126.3	1126.3	1124.9	1123.5	1122.1	1120.8	1121.0
177.5°	1125.0	1126.3	1127.5	1128.7	1130.0	1130.1	1128.9	1127.9	1126.8	1125.7	1125.7
180°	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1522.1	1515.4	1512.1	1504.4	1495.4	1490.6	1486.3	1480.1	1472.1	1463.5	1457.3
5°	1599.3	1585.0	1567.2	1545.8	1526.7	1508.3	1492.2	1476.1	1457.7	1438.6	1419.6
7.5°	1678.6	1650.5	1620.1	1585.0	1550.9	1519.8	1491.3	1463.9	1432.9	1405.2	1379.9
10°	1733.9	1695.7	1653.5	1608.9	1564.2	1525.5	1487.5	1452.9	1414.8	1380.9	1352.3
12.5°	1778.7	1733.9	1683.0	1627.5	1573.7	1527.0	1483.2	1438.1	1394.8	1358.1	1319.9
15°	1852.9	1791.6	1723.1	1656.5	1586.8	1523.1	1464.2	1411.9	1362.4	1310.7	1274.4
17.5°	1903.9	1831.3	1748.0	1667.9	1585.6	1510.5	1442.5	1380.2	1323.2	1270.3	1227.1
20°	1934.4	1854.1	1761.9	1670.8	1578.5	1498.1	1425.0	1355.9	1297.0	1239.8	1195.2
22.5°	1951.5	1862.7	1761.9	1666.5	1570.9	1483.8	1403.5	1331.6	1267.5	1210.3	1160.9
25°	1957.1	1861.8	1758.9	1649.3	1544.5	1452.3	1369.0	1291.0	1219.6	1162.4	1110.1
27.5°	1949.5	1837.3	1731.8	1619.5	1511.4	1414.1	1326.6	1244.7	1173.2	1111.9	1058.2
30°	1938.0	1817.7	1704.7	1588.0	1478.5	1385.1	1292.8	1214.3	1139.8	1076.2	1022.0
32.5°	1913.2	1794.0	1672.3	1552.8	1441.8	1345.6	1258.0	1179.0	1106.0	1040.9	983.4
35°	1864.2	1743.4	1611.3	1488.7	1379.7	1279.7	1197.6	1121.4	1051.7	982.1	921.4
37.5°	1799.6	1676.1	1544.7	1410.4	1301.4	1206.9	1131.6	1060.1	992.1	928.5	861.3
40°	1738.6	1626.1	1490.4	1357.1	1245.2	1154.1	1084.5	1019.6	951.1	888.0	820.8
42.5°	1664.8	1569.0	1431.8	1298.0	1187.6	1099.8	1034.9	971.5	909.2	848.1	777.9
45°	1541.6	1469.0	1340.4	1211.9	1100.5	1013.7	954.2	898.2	843.4	785.1	719.0
47.5°	1400.4	1351.3	1240.3	1108.6	1005.6	927.5	870.0	824.2	777.9	719.6	661.7
50°	1302.3	1270.7	1163.6	1043.4	945.2	873.1	814.2	771.4	732.7	676.7	625.0
52.5°	1197.6	1180.8	1090.3	975.3	880.5	809.9	759.5	720.9	681.7	635.3	586.9
55°	1038.0	1047.0	970.2	870.8	781.5	722.0	676.1	644.0	610.7	571.4	533.9
57.5°	874.9	907.6	856.0	768.8	685.1	630.1	595.6	568.5	540.5	508.0	476.0
60°	777.3	804.7	775.6	698.8	625.6	574.4	542.3	521.4	493.4	463.6	439.3
62.5°	682.1	711.4	694.1	632.1	564.1	520.1	491.8	472.3	451.5	425.6	400.2
65°	562.5	581.5	573.2	530.4	482.2	444.6	418.4	404.2	385.1	366.1	343.5
67.5°	430.8	467.6	462.7	440.0	398.3	369.0	351.9	339.2	321.9	307.7	292.4
70°	354.1	388.1	387.4	369.0	346.4	319.0	307.1	296.4	280.9	267.3	254.8
72.5°	289.9	321.0	325.5	311.4	295.9	275.3	263.8	256.4	241.4	232.0	221.9
75°	202.9	225.6	231.5	231.5	224.4	213.7	203.5	198.8	188.1	179.8	173.8
77.5°	133.1	147.4	156.7	158.8	159.9	156.3	148.0	144.6	136.4	133.5	127.8
80°	94.0	103.6	114.3	117.9	120.8	119.7	116.1	113.7	106.0	103.0	100.6
82.5°	65.0	70.3	79.0	86.9	86.1	89.2	86.1	84.2	78.4	77.2	74.9
85°	33.9	34.5	35.7	41.1	44.1	45.2	45.8	44.6	42.9	42.9	38.7
87.5°	14.6	13.9	14.5	14.1	14.2	15.7	16.7	16.7	15.7	14.7	13.7
90°	16.1	14.6	13.0	11.1	9.0	6.9	4.7	2.6	4.7	6.9	9.0
92.5°	32.4	31.3	30.2	28.4	26.0	23.6	21.1	18.7	21.1	23.6	26.0
95°	63.5	62.3	60.9	59.3	57.6	55.8	54.1	52.3	54.1	55.8	57.6
97.5°	101.7	100.0	98.5	97.0	95.6	94.2	92.8	91.4	92.8	94.2	95.6
100°	129.9	128.2	126.5	125.2	124.4	123.6	122.9	122.1	122.9	123.6	124.4
102.5°	159.5	158.0	156.4	155.4	155.2	154.8	154.5	154.2	154.5	154.8	155.2
105°	206.0	205.3	204.5	204.0	203.8	203.6	203.5	203.2	203.5	203.6	203.8
107.5°	256.1	255.9	255.8	255.6	255.4	255.1	254.9	254.7	254.9	255.1	255.4
110°	290.8	291.0	291.2	291.1	290.8	290.3	290.0	289.6	290.0	290.3	290.8



TEST NUMBER: P333084-935

CATALOG NUMBER: S124RDIW-S1020D1050U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	325.4	325.7	326.1	326.1	326.1	326.1	326.0	325.9	326.0	326.1	326.1
115°	379.4	379.7	380.1	380.3	380.3	380.3	380.3	380.3	380.3	380.3	380.3
117.5°	431.6	431.9	432.1	432.2	432.0	431.9	431.7	431.6	431.7	431.9	432.0
120°	467.8	468.4	469.0	468.9	468.1	467.4	466.6	465.8	466.6	467.4	468.1
122.5°	502.0	502.3	502.7	502.6	502.3	502.0	501.7	501.4	501.7	502.0	502.3
125°	553.4	553.5	553.8	553.9	553.9	553.9	553.9	553.9	553.9	553.9	553.9
127.5°	603.3	603.6	604.0	603.8	603.2	602.6	602.1	601.5	602.1	602.6	603.2
130°	637.6	637.6	637.6	637.3	636.7	636.1	635.6	635.0	635.6	636.1	636.7
132.5°	670.7	670.9	671.0	670.9	670.5	670.0	669.6	669.2	669.6	670.0	670.5
135°	719.6	719.6	719.6	719.0	717.8	716.7	715.5	714.4	715.5	716.7	717.8
137.5°	766.8	766.5	766.1	765.7	765.2	764.7	764.1	763.5	764.1	764.7	765.2
140°	798.1	798.1	798.1	797.9	797.5	797.1	796.8	796.3	796.8	797.1	797.5
142.5°	827.7	827.9	828.0	827.9	827.5	827.2	826.7	826.4	826.7	827.2	827.5
145°	871.8	871.7	871.4	871.0	870.2	869.4	868.7	867.9	868.7	869.4	870.2
147.5°	912.8	913.0	913.2	912.7	911.8	910.9	910.0	909.0	910.0	910.9	911.8
150°	937.6	937.6	937.6	937.3	936.5	935.7	935.0	934.2	935.0	935.7	936.5
152.5°	960.4	960.2	960.0	959.8	959.2	958.8	958.4	957.9	958.4	958.8	959.2
155°	993.9	994.0	994.3	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4
157.5°	1023.4	1023.4	1023.5	1023.6	1024.0	1024.3	1024.7	1025.0	1024.7	1024.3	1024.0
160°	1041.8	1042.0	1042.2	1042.4	1042.6	1042.8	1043.0	1043.2	1043.0	1042.8	1042.6
162.5°	1057.2	1057.4	1057.6	1057.9	1058.4	1058.9	1059.5	1059.9	1059.5	1058.9	1058.4
165°	1078.8	1079.3	1079.6	1080.1	1080.7	1081.2	1081.8	1082.4	1081.8	1081.2	1080.7
167.5°	1096.1	1096.1	1096.1	1096.5	1097.3	1098.1	1098.9	1099.7	1098.9	1098.1	1097.3
170°	1105.6	1105.4	1105.2	1105.6	1106.6	1107.5	1108.5	1109.5	1108.5	1107.5	1106.6
172.5°	1112.9	1112.8	1112.8	1113.2	1114.0	1114.8	1115.6	1116.5	1115.6	1114.8	1114.0
175°	1121.2	1121.4	1121.6	1122.1	1123.2	1124.1	1125.1	1126.0	1125.1	1124.1	1123.2
177.5°	1125.7	1125.7	1125.7	1126.1	1126.9	1127.7	1128.4	1129.2	1128.4	1127.7	1126.9
180°	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8



TEST NUMBER: P333084-935

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1450.6	1445.9	1439.7	1432.5	1424.0	1416.3	1413.1	1415.9	1417.3	1413.5	1413.1
5°	1406.5	1391.6	1379.7	1361.8	1347.6	1335.7	1327.3	1323.8	1324.9	1315.4	1313.0
7.5°	1356.8	1339.2	1319.7	1298.5	1278.8	1261.3	1252.1	1247.1	1237.0	1232.7	1225.5
10°	1324.9	1301.1	1282.1	1257.1	1234.5	1213.7	1203.5	1195.2	1185.1	1180.3	1170.2
12.5°	1292.1	1264.5	1243.5	1217.5	1194.5	1169.3	1159.7	1144.3	1128.4	1118.4	1105.4
15°	1245.8	1212.5	1186.9	1155.9	1128.5	1099.9	1074.4	1045.8	1035.1	1012.4	999.4
17.5°	1191.6	1157.8	1126.1	1084.6	1042.3	1006.9	979.6	952.2	935.8	921.4	914.7
20°	1155.9	1125.0	1080.9	1032.7	985.7	946.4	924.4	906.5	888.6	878.6	871.4
22.5°	1122.1	1082.5	1031.4	979.4	932.4	901.6	883.0	864.6	850.1	840.4	831.0
25°	1065.4	1013.7	959.5	900.0	867.8	841.0	820.8	805.9	797.0	784.5	779.7
27.5°	1007.2	944.5	884.8	844.7	811.2	786.8	769.1	757.9	746.7	738.7	732.5
30°	962.4	898.8	845.2	807.1	773.2	752.9	738.7	725.6	716.6	710.1	705.3
32.5°	918.2	854.5	809.5	768.5	741.8	722.0	706.8	697.0	690.0	681.5	678.6
35°	854.1	797.5	758.3	721.4	694.1	676.1	664.3	654.1	648.2	645.8	644.0
37.5°	792.6	746.3	704.0	673.8	649.4	635.3	621.3	616.3	612.3	608.0	609.8
40°	753.5	710.1	672.6	640.4	620.8	605.4	597.0	591.1	587.5	587.5	587.5
42.5°	719.7	677.3	640.7	611.9	592.2	579.1	569.9	564.8	563.7	563.2	566.0
45°	667.3	627.9	591.1	567.2	550.6	537.4	532.1	528.0	528.0	530.4	530.9
47.5°	615.2	578.4	548.8	522.1	506.9	498.7	494.0	491.9	492.1	494.5	497.2
50°	583.3	547.0	517.8	494.0	479.7	472.0	467.9	466.7	467.9	467.9	472.0
52.5°	548.5	516.1	487.3	467.4	451.2	443.9	441.6	440.0	440.7	442.6	444.4
55°	497.6	468.5	441.1	422.0	410.1	405.4	400.0	400.5	399.4	400.5	400.5
57.5°	446.5	420.3	394.9	379.8	369.3	362.4	356.5	358.2	356.5	356.2	355.2
60°	413.7	385.1	364.9	351.2	339.2	333.3	328.0	329.2	327.4	326.1	323.8
62.5°	378.0	354.1	334.8	321.7	312.1	305.2	299.9	298.7	294.5	290.5	285.2
65°	326.1	306.5	289.3	276.8	267.9	262.5	258.3	254.8	245.8	236.3	231.5
67.5°	275.9	261.7	245.6	235.0	227.7	220.7	212.8	206.6	198.3	193.1	190.1
70°	243.4	229.7	216.0	206.0	198.2	191.7	182.7	178.6	172.6	170.2	167.3
72.5°	212.5	199.8	187.0	177.9	169.6	164.5	157.5	153.3	150.7	149.7	146.8
75°	165.5	155.3	145.9	137.5	131.0	127.3	124.4	121.4	120.2	114.9	111.9
77.5°	120.7	114.1	108.1	102.1	97.5	95.1	89.4	85.9	83.9	81.5	80.8
80°	94.0	89.3	83.3	79.7	73.2	70.9	68.4	67.8	67.2	66.6	66.0
82.5°	70.7	66.0	60.0	57.9	56.1	54.7	53.2	52.6	52.0	52.3	52.3
85°	35.7	33.3	33.3	32.7	32.1	31.5	30.9	30.9	30.4	30.9	30.4
87.5°	14.1	14.0	14.3	13.7	14.5	14.8	14.6	14.8	15.5	14.8	14.9
90°	11.1	13.0	14.6	16.1	17.7	19.2	20.3	21.5	22.6	23.8	24.6
92.5°	28.4	30.2	31.3	32.4	33.5	34.5	35.2	35.9	36.6	37.4	37.8
95°	59.3	60.9	62.3	63.5	64.9	66.3	66.9	67.4	68.0	68.6	68.9
97.5°	97.0	98.5	100.0	101.7	103.2	104.9	105.6	106.2	106.9	107.6	108.0
100°	125.2	126.5	128.2	129.9	131.7	133.5	133.8	134.2	134.6	135.0	135.2
102.5°	155.4	156.4	158.0	159.5	161.2	162.7	163.3	163.8	164.4	165.0	165.3
105°	204.0	204.5	205.3	206.0	206.8	207.6	208.2	208.8	209.3	209.9	210.5
107.5°	255.6	255.8	255.9	256.1	256.1	256.2	256.8	257.4	257.9	258.5	258.6
110°	291.1	291.2	291.0	290.8	290.7	290.4	290.1	289.6	289.3	288.9	289.0



TEST NUMBER: P333084-935

CATALOG NUMBER: S124RDIW-S1020D1050U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	326.1	326.1	325.7	325.4	325.0	324.7	324.6	324.5	324.4	324.3	324.3
115°	380.3	380.1	379.7	379.4	378.9	378.6	378.3	378.2	378.0	377.8	377.5
117.5°	432.2	432.1	431.9	431.6	431.4	431.0	430.4	429.7	429.0	428.4	427.9
120°	468.9	469.0	468.4	467.8	467.3	466.7	465.7	464.7	463.7	462.8	462.4
122.5°	502.6	502.7	502.3	502.0	501.8	501.5	500.8	500.2	499.6	498.9	498.2
125°	553.9	553.8	553.5	553.4	553.2	553.0	552.6	552.2	551.8	551.5	551.0
127.5°	603.8	604.0	603.6	603.3	603.0	602.7	602.4	601.9	601.6	601.2	600.8
130°	637.3	637.6	637.6	637.6	637.6	637.6	637.2	636.8	636.5	636.0	635.5
132.5°	670.9	671.0	670.9	670.7	670.5	670.4	670.0	669.6	669.3	668.8	668.5
135°	719.0	719.6	719.6	719.6	719.6	719.6	719.2	718.8	718.4	718.1	717.6
137.5°	765.7	766.1	766.5	766.8	767.1	767.4	766.9	766.4	765.9	765.3	765.2
140°	797.9	798.1	798.1	798.1	798.1	798.1	797.9	797.7	797.5	797.3	797.1
142.5°	827.9	828.0	827.9	827.7	827.6	827.4	827.3	827.3	827.2	827.2	827.2
145°	871.0	871.4	871.7	871.8	872.0	872.2	872.0	871.8	871.7	871.4	871.1
147.5°	912.7	913.2	913.0	912.8	912.7	912.5	912.4	912.2	912.1	911.9	911.7
150°	937.3	937.6	937.6	937.6	937.6	937.6	937.6	937.6	937.6	937.6	937.5
152.5°	959.8	960.0	960.2	960.4	960.5	960.7	961.1	961.6	962.1	962.5	962.5
155°	994.4	994.3	994.0	993.9	993.7	993.5	994.3	995.1	995.8	996.6	996.6
157.5°	1023.6	1023.5	1023.4	1023.4	1023.3	1023.3	1023.9	1024.5	1025.0	1025.6	1025.6
160°	1042.4	1042.2	1042.0	1041.8	1041.6	1041.5	1042.0	1042.6	1043.2	1043.8	1043.5
162.5°	1057.9	1057.6	1057.4	1057.2	1057.0	1056.8	1057.8	1058.9	1059.9	1061.0	1061.0
165°	1080.1	1079.6	1079.3	1078.8	1078.5	1078.1	1079.3	1080.4	1081.6	1082.7	1082.9
167.5°	1096.5	1096.1	1096.1	1096.1	1096.1	1096.2	1097.3	1098.5	1099.7	1100.9	1100.9
170°	1105.6	1105.2	1105.4	1105.6	1105.8	1106.0	1107.2	1108.3	1109.5	1110.6	1110.5
172.5°	1113.2	1112.8	1112.8	1112.9	1112.9	1112.9	1114.3	1115.6	1116.9	1118.3	1118.2
175°	1122.1	1121.6	1121.4	1121.2	1121.0	1120.8	1122.1	1123.5	1124.9	1126.3	1126.3
177.5°	1126.1	1125.7	1125.7	1125.7	1125.7	1125.7	1126.8	1127.9	1128.9	1130.1	1130.0
180°	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8



TEST NUMBER: P333084-935

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1410.1	1411.1	1407.8	1406.9	1407.8	1411.1	1410.1	1413.1	1413.5	1417.3	1415.9
5°	1308.3	1307.1	1304.1	1304.7	1304.1	1307.1	1308.3	1313.0	1315.4	1324.9	1323.8
7.5°	1221.2	1216.5	1217.8	1213.1	1217.8	1216.5	1221.2	1225.5	1232.7	1237.0	1247.1
10°	1167.8	1161.2	1155.9	1151.2	1155.9	1161.2	1167.8	1170.2	1180.3	1185.1	1195.2
12.5°	1094.9	1089.3	1082.1	1083.6	1082.1	1089.3	1094.9	1105.4	1118.4	1128.4	1144.3
15°	991.6	982.7	968.5	970.2	968.5	982.7	991.6	999.4	1012.4	1035.1	1045.8
17.5°	904.1	904.2	897.7	899.2	897.7	904.2	904.1	914.7	921.4	935.8	952.2
20°	858.9	854.7	855.3	853.5	855.3	854.7	858.9	871.4	878.6	888.6	906.5
22.5°	827.5	822.3	818.2	814.5	818.2	822.3	827.5	831.0	840.4	850.1	864.6
25°	774.4	770.8	765.4	764.2	765.4	770.8	774.4	779.7	784.5	797.0	805.9
27.5°	727.7	727.0	724.9	722.1	724.9	727.0	727.7	732.5	738.7	746.7	757.9
30°	700.6	699.4	698.2	696.4	698.2	699.4	700.6	705.3	710.1	716.6	725.6
32.5°	676.3	675.5	674.3	674.5	674.3	675.5	676.3	678.6	681.5	690.0	697.0
35°	641.6	641.0	639.9	639.3	639.9	641.0	641.6	644.0	645.8	648.2	654.1
37.5°	609.2	610.8	610.1	609.9	610.1	610.8	609.2	609.8	608.0	612.3	616.3
40°	586.9	587.5	588.7	588.1	588.7	587.5	586.9	587.5	587.5	587.5	591.1
42.5°	568.3	568.4	570.1	568.1	570.1	568.4	568.3	566.0	563.2	563.7	564.8
45°	535.1	538.6	538.0	538.0	538.0	538.6	535.1	530.9	530.4	528.0	528.0
47.5°	498.8	501.9	502.7	502.6	502.7	501.9	498.8	497.2	494.5	492.1	491.9
50°	475.0	473.8	475.6	475.0	475.6	473.8	475.0	472.0	467.9	467.9	466.7
52.5°	445.9	446.2	446.1	445.5	446.1	446.2	445.9	444.4	442.6	440.7	440.0
55°	401.1	401.7	400.5	401.1	400.5	401.7	401.1	400.5	400.5	399.4	400.5
57.5°	352.6	349.7	350.9	349.5	350.9	349.7	352.6	355.2	356.2	356.5	358.2
60°	317.9	313.1	311.9	309.5	311.9	313.1	317.9	323.8	326.1	327.4	329.2
62.5°	278.8	275.4	271.4	273.3	271.4	275.4	278.8	285.2	290.5	294.5	298.7
65°	226.8	224.4	222.6	225.0	222.6	224.4	226.8	231.5	236.3	245.8	254.8
67.5°	187.7	186.4	186.4	185.2	186.4	186.4	187.7	190.1	193.1	198.3	206.6
70°	167.3	165.5	165.5	164.3	165.5	165.5	167.3	167.3	170.2	172.6	178.6
72.5°	146.3	144.5	145.0	144.3	145.0	144.5	146.3	146.8	149.7	150.7	153.3
75°	108.3	105.4	105.4	106.0	105.4	105.4	108.3	111.9	114.9	120.2	121.4
77.5°	80.8	80.2	81.1	80.0	81.1	80.2	80.8	80.8	81.5	83.9	85.9
80°	66.0	65.4	64.9	66.6	64.9	65.4	66.0	66.0	66.6	67.2	67.8
82.5°	51.3	51.2	51.1	53.3	51.1	51.2	51.3	52.3	52.3	52.0	52.6
85°	30.9	29.8	30.9	29.8	30.9	29.8	30.9	30.4	30.9	30.4	30.9
87.5°	15.9	15.6	15.2	15.7	15.2	15.6	15.9	14.9	14.8	15.5	14.8
90°	25.0	25.4	25.7	26.2	25.7	25.4	25.0	24.6	23.8	22.6	21.5
92.5°	38.1	38.2	38.5	38.7	38.5	38.2	38.1	37.8	37.4	36.6	35.9
95°	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.6	68.0	67.4
97.5°	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	107.6	106.9	106.2
100°	135.2	135.2	135.2	135.2	135.2	135.2	135.2	135.2	135.0	134.6	134.2
102.5°	165.4	165.6	165.7	165.9	165.7	165.6	165.4	165.3	165.0	164.4	163.8
105°	211.1	211.6	212.2	212.8	212.2	211.6	211.1	210.5	209.9	209.3	208.8
107.5°	258.6	258.6	258.6	258.6	258.6	258.6	258.6	258.6	258.5	257.9	257.4
110°	289.6	290.2	290.8	291.4	290.8	290.2	289.6	289.0	288.9	289.3	289.6



TEST NUMBER: P333084-935

CATALOG NUMBER: S124RDIW-S1020D1050U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	324.5	324.6	324.7	324.9	324.7	324.6	324.5	324.3	324.3	324.4	324.5
115°	377.4	377.2	377.0	376.8	377.0	377.2	377.4	377.5	377.8	378.0	378.2
117.5°	427.5	427.1	426.7	426.4	426.7	427.1	427.5	427.9	428.4	429.0	429.7
120°	462.9	463.2	463.6	464.0	463.6	463.2	462.9	462.4	462.8	463.7	464.7
122.5°	497.5	496.8	496.1	495.4	496.1	496.8	497.5	498.2	498.9	499.6	500.2
125°	550.7	550.3	549.9	549.5	549.9	550.3	550.7	551.0	551.5	551.8	552.2
127.5°	600.5	600.2	599.9	599.6	599.9	600.2	600.5	600.8	601.2	601.6	601.9
130°	634.7	634.0	633.2	632.4	633.2	634.0	634.7	635.5	636.0	636.5	636.8
132.5°	668.2	667.9	667.5	667.3	667.5	667.9	668.2	668.5	668.8	669.3	669.6
135°	717.0	716.4	715.8	715.2	715.8	716.4	717.0	717.6	718.1	718.4	718.8
137.5°	765.3	765.4	765.5	765.6	765.5	765.4	765.3	765.2	765.3	765.9	766.4
140°	796.9	796.8	796.5	796.3	796.5	796.8	796.9	797.1	797.3	797.5	797.7
142.5°	827.2	827.2	827.1	827.1	827.1	827.2	827.2	827.2	827.2	827.2	827.3
145°	870.5	869.9	869.4	868.7	869.4	869.9	870.5	871.1	871.4	871.7	871.8
147.5°	911.5	911.4	911.1	910.9	911.1	911.4	911.5	911.7	911.9	912.1	912.2
150°	937.4	937.2	936.9	936.8	936.9	937.2	937.4	937.5	937.6	937.6	937.6
152.5°	962.0	961.5	961.0	960.5	961.0	961.5	962.0	962.5	962.5	962.1	961.6
155°	995.8	995.1	994.3	993.5	994.3	995.1	995.8	996.6	996.6	995.8	995.1
157.5°	1024.9	1024.2	1023.6	1023.0	1023.6	1024.2	1024.9	1025.6	1025.6	1025.0	1024.5
160°	1042.6	1041.6	1040.7	1039.7	1040.7	1041.6	1042.6	1043.5	1043.8	1043.2	1042.6
162.5°	1060.1	1059.1	1058.1	1057.1	1058.1	1059.1	1060.1	1061.0	1061.0	1059.9	1058.9
165°	1082.1	1081.3	1080.6	1079.8	1080.6	1081.3	1082.1	1082.9	1082.7	1081.6	1080.4
167.5°	1099.7	1098.5	1097.3	1096.1	1097.3	1098.5	1099.7	1100.9	1100.9	1099.7	1098.5
170°	1109.2	1107.8	1106.5	1105.1	1106.5	1107.8	1109.2	1110.5	1110.6	1109.5	1108.3
172.5°	1116.9	1115.5	1114.1	1112.8	1114.1	1115.5	1116.9	1118.2	1118.3	1116.9	1115.6
175°	1124.9	1123.5	1122.1	1120.8	1122.1	1123.5	1124.9	1126.3	1126.3	1124.9	1123.5
177.5°	1128.7	1127.5	1126.3	1125.0	1126.3	1127.5	1128.7	1130.0	1130.1	1128.9	1127.9
180°	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8



TEST NUMBER: P333084-935

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1413.1	1416.3	1424.0	1432.5	1439.7	1445.9	1450.6	1457.3	1463.5	1472.1	1480.1
5°	1327.3	1335.7	1347.6	1361.8	1379.7	1391.6	1406.5	1419.6	1438.6	1457.7	1476.1
7.5°	1252.1	1261.3	1278.8	1298.5	1319.7	1339.2	1356.8	1379.9	1405.2	1432.9	1463.9
10°	1203.5	1213.7	1234.5	1257.1	1282.1	1301.1	1324.9	1352.3	1380.9	1414.8	1452.9
12.5°	1159.7	1169.3	1194.5	1217.5	1243.5	1264.5	1292.1	1319.9	1358.1	1394.8	1438.1
15°	1074.4	1099.9	1128.5	1155.9	1186.9	1212.5	1245.8	1274.4	1310.7	1362.4	1411.9
17.5°	979.6	1006.9	1042.3	1084.6	1126.1	1157.8	1191.6	1227.1	1270.3	1323.2	1380.2
20°	924.4	946.4	985.7	1032.7	1080.9	1125.0	1155.9	1195.2	1239.8	1297.0	1355.9
22.5°	883.0	901.6	932.4	979.4	1031.4	1082.5	1122.1	1160.9	1210.3	1267.5	1331.6
25°	820.8	841.0	867.8	900.0	959.5	1013.7	1065.4	1110.1	1162.4	1219.6	1291.0
27.5°	769.1	786.8	811.2	844.7	884.8	944.5	1007.2	1058.2	1111.9	1173.2	1244.7
30°	738.7	752.9	773.2	807.1	845.2	898.8	962.4	1022.0	1076.2	1139.8	1214.3
32.5°	706.8	722.0	741.8	768.5	809.5	854.5	918.2	983.4	1040.9	1106.0	1179.0
35°	664.3	676.1	694.1	721.4	758.3	797.5	854.1	921.4	982.1	1051.7	1121.4
37.5°	621.3	635.3	649.4	673.8	704.0	746.3	792.6	861.3	928.5	992.1	1060.1
40°	597.0	605.4	620.8	640.4	672.6	710.1	753.5	820.8	888.0	951.1	1019.6
42.5°	569.9	579.1	592.2	611.9	640.7	677.3	719.7	777.9	848.1	909.2	971.5
45°	532.1	537.4	550.6	567.2	591.1	627.9	667.3	719.0	785.1	843.4	898.2
47.5°	494.0	498.7	506.9	522.1	548.8	578.4	615.2	661.7	719.6	777.9	824.2
50°	467.9	472.0	479.7	494.0	517.8	547.0	583.3	625.0	676.7	732.7	771.4
52.5°	441.6	443.9	451.2	467.4	487.3	516.1	548.5	586.9	635.3	681.7	720.9
55°	400.0	405.4	410.1	422.0	441.1	468.5	497.6	533.9	571.4	610.7	644.0
57.5°	356.5	362.4	369.3	379.8	394.9	420.3	446.5	476.0	508.0	540.5	568.5
60°	328.0	333.3	339.2	351.2	364.9	385.1	413.7	439.3	463.6	493.4	521.4
62.5°	299.9	305.2	312.1	321.7	334.8	354.1	378.0	400.2	425.6	451.5	472.3
65°	258.3	262.5	267.9	276.8	289.3	306.5	326.1	343.5	366.1	385.1	404.2
67.5°	212.8	220.7	227.7	235.0	245.6	261.7	275.9	292.4	307.7	321.9	339.2
70°	182.7	191.7	198.2	206.0	216.0	229.7	243.4	254.8	267.3	280.9	296.4
72.5°	157.5	164.5	169.6	177.9	187.0	199.8	212.5	221.9	232.0	241.4	256.4
75°	124.4	127.3	131.0	137.5	145.9	155.3	165.5	173.8	179.8	188.1	198.8
77.5°	89.4	95.1	97.5	102.1	108.1	114.1	120.7	127.8	133.5	136.4	144.6
80°	68.4	70.9	73.2	79.7	83.3	89.3	94.0	100.6	103.0	106.0	113.7
82.5°	53.2	54.7	56.1	57.9	60.0	66.0	70.7	74.9	77.2	78.4	84.2
85°	30.9	31.5	32.1	32.7	33.3	33.3	35.7	38.7	42.9	42.9	44.6
87.5°	14.6	14.8	14.5	13.7	14.3	14.0	14.1	13.7	14.7	15.7	16.7
90°	20.3	19.2	17.7	16.1	14.6	13.0	11.1	9.0	6.9	4.7	2.6
92.5°	35.2	34.5	33.5	32.4	31.3	30.2	28.4	26.0	23.6	21.1	18.7
95°	66.9	66.3	64.9	63.5	62.3	60.9	59.3	57.6	55.8	54.1	52.3
97.5°	105.6	104.9	103.2	101.7	100.0	98.5	97.0	95.6	94.2	92.8	91.4
100°	133.8	133.5	131.7	129.9	128.2	126.5	125.2	124.4	123.6	122.9	122.1
102.5°	163.3	162.7	161.2	159.5	158.0	156.4	155.4	155.2	154.8	154.5	154.2
105°	208.2	207.6	206.8	206.0	205.3	204.5	204.0	203.8	203.6	203.5	203.2
107.5°	256.8	256.2	256.1	256.1	255.9	255.8	255.6	255.4	255.1	254.9	254.7
110°	290.1	290.4	290.7	290.8	291.0	291.2	291.1	290.8	290.3	290.0	289.6



TEST NUMBER: P333084-935

CATALOG NUMBER: S124RDIW-S1020D1050U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	324.6	324.7	325.0	325.4	325.7	326.1	326.1	326.1	326.1	326.0	325.9
115°	378.3	378.6	378.9	379.4	379.7	380.1	380.3	380.3	380.3	380.3	380.3
117.5°	430.4	431.0	431.4	431.6	431.9	432.1	432.2	432.0	431.9	431.7	431.6
120°	465.7	466.7	467.3	467.8	468.4	469.0	468.9	468.1	467.4	466.6	465.8
122.5°	500.8	501.5	501.8	502.0	502.3	502.7	502.6	502.3	502.0	501.7	501.4
125°	552.6	553.0	553.2	553.4	553.5	553.8	553.9	553.9	553.9	553.9	553.9
127.5°	602.4	602.7	603.0	603.3	603.6	604.0	603.8	603.2	602.6	602.1	601.5
130°	637.2	637.6	637.6	637.6	637.6	637.6	637.3	636.7	636.1	635.6	635.0
132.5°	670.0	670.4	670.5	670.7	670.9	671.0	670.9	670.5	670.0	669.6	669.2
135°	719.2	719.6	719.6	719.6	719.6	719.6	719.0	717.8	716.7	715.5	714.4
137.5°	766.9	767.4	767.1	766.8	766.5	766.1	765.7	765.2	764.7	764.1	763.5
140°	797.9	798.1	798.1	798.1	798.1	798.1	797.9	797.5	797.1	796.8	796.3
142.5°	827.3	827.4	827.6	827.7	827.9	828.0	827.9	827.5	827.2	826.7	826.4
145°	872.0	872.2	872.0	871.8	871.7	871.4	871.0	870.2	869.4	868.7	867.9
147.5°	912.4	912.5	912.7	912.8	913.0	913.2	912.7	911.8	910.9	910.0	909.0
150°	937.6	937.6	937.6	937.6	937.6	937.6	937.3	936.5	935.7	935.0	934.2
152.5°	961.1	960.7	960.5	960.4	960.2	960.0	959.8	959.2	958.8	958.4	957.9
155°	994.3	993.5	993.7	993.9	994.0	994.3	994.4	994.4	994.4	994.4	994.4
157.5°	1023.9	1023.3	1023.3	1023.4	1023.4	1023.5	1023.6	1024.0	1024.3	1024.7	1025.0
160°	1042.0	1041.5	1041.6	1041.8	1042.0	1042.2	1042.4	1042.6	1042.8	1043.0	1043.2
162.5°	1057.8	1056.8	1057.0	1057.2	1057.4	1057.6	1057.9	1058.4	1058.9	1059.5	1059.9
165°	1079.3	1078.1	1078.5	1078.8	1079.3	1079.6	1080.1	1080.7	1081.2	1081.8	1082.4
167.5°	1097.3	1096.2	1096.1	1096.1	1096.1	1096.1	1096.5	1097.3	1098.1	1098.9	1099.7
170°	1107.2	1106.0	1105.8	1105.6	1105.4	1105.2	1105.6	1106.6	1107.5	1108.5	1109.5
172.5°	1114.3	1112.9	1112.9	1112.9	1112.8	1112.8	1113.2	1114.0	1114.8	1115.6	1116.5
175°	1122.1	1120.8	1121.0	1121.2	1121.4	1121.6	1122.1	1123.2	1124.1	1125.1	1126.0
177.5°	1126.8	1125.7	1125.7	1125.7	1125.7	1125.7	1126.1	1126.9	1127.7	1128.4	1129.2
180°	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8



TEST NUMBER: P333084-935

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1486.3	1490.6	1495.4	1504.4	1512.1	1515.4	1522.1	1526.8	1525.4	1532.1	1543.5
5°	1492.2	1508.3	1526.7	1545.8	1567.2	1585.0	1599.3	1613.6	1625.0	1638.7	1658.9
7.5°	1491.3	1519.8	1550.9	1585.0	1620.1	1650.5	1678.6	1707.2	1732.5	1760.3	1796.6
10°	1487.5	1525.5	1564.2	1608.9	1653.5	1695.7	1733.9	1769.5	1803.5	1839.8	1885.7
12.5°	1483.2	1527.0	1573.7	1627.5	1683.0	1733.9	1778.7	1830.1	1872.5	1919.3	1972.3
15°	1464.2	1523.1	1586.8	1656.5	1723.1	1791.6	1852.9	1916.0	1974.9	2030.8	2097.6
17.5°	1442.5	1510.5	1585.6	1667.9	1748.0	1831.3	1903.9	1983.5	2043.8	2118.8	2180.7
20°	1425.0	1498.1	1578.5	1670.8	1761.9	1854.1	1934.4	2015.4	2083.3	2158.9	2237.4
22.5°	1403.5	1483.8	1570.9	1666.5	1761.9	1862.7	1951.5	2032.0	2116.1	2201.2	2282.2
25°	1369.0	1452.3	1544.5	1649.3	1758.9	1861.8	1957.1	2057.0	2147.5	2239.8	2312.4
27.5°	1326.6	1414.1	1511.4	1619.5	1731.8	1837.3	1949.5	2056.0	2147.1	2235.8	2299.2
30°	1292.8	1385.1	1478.5	1588.0	1704.7	1817.7	1938.0	2044.5	2140.4	2220.2	2255.8
32.5°	1258.0	1345.6	1441.8	1552.8	1672.3	1794.0	1913.2	2022.1	2110.8	2158.7	2159.6
35°	1197.6	1279.7	1379.7	1488.7	1611.3	1743.4	1864.2	1971.3	2025.5	2029.6	1971.3
37.5°	1131.6	1206.9	1301.4	1410.4	1544.7	1676.1	1799.6	1871.0	1889.1	1828.5	1720.6
40°	1084.5	1154.1	1245.2	1357.1	1490.4	1626.1	1738.6	1791.0	1771.9	1673.7	1553.5
42.5°	1034.9	1099.8	1187.6	1298.0	1431.8	1569.0	1664.8	1692.9	1642.4	1529.0	1388.3
45°	954.2	1013.7	1100.5	1211.9	1340.4	1469.0	1541.6	1527.3	1443.4	1308.9	1151.2
47.5°	870.0	927.5	1005.6	1108.6	1240.3	1351.3	1400.4	1357.4	1237.9	1089.9	961.7
50°	814.2	873.1	945.2	1043.4	1163.6	1270.7	1302.3	1236.8	1104.1	961.8	844.0
52.5°	759.5	809.9	880.5	975.3	1090.3	1180.8	1197.6	1122.1	985.1	857.6	753.0
55°	676.1	722.0	781.5	870.8	970.2	1047.0	1038.0	941.1	816.7	707.7	625.6
57.5°	595.6	630.1	685.1	768.8	856.0	907.6	874.9	792.2	676.3	587.1	517.8
60°	542.3	574.4	625.6	698.8	775.6	804.7	777.3	687.5	595.8	514.3	455.9
62.5°	491.8	520.1	564.1	632.1	694.1	711.4	682.1	603.6	521.1	451.4	403.1
65°	418.4	444.6	482.2	530.4	573.2	581.5	562.5	482.2	419.7	361.3	328.0
67.5°	351.9	369.0	398.3	440.0	462.7	467.6	430.8	380.3	325.2	289.4	264.2
70°	307.1	319.0	346.4	369.0	387.4	388.1	354.1	313.7	271.4	242.3	223.8
72.5°	263.8	275.3	295.9	311.4	325.5	321.0	289.9	258.0	223.8	201.8	188.1
75°	203.5	213.7	224.4	231.5	231.5	225.6	202.9	179.2	159.5	146.5	142.2
77.5°	148.0	156.3	159.9	158.8	156.7	147.4	133.1	117.5	110.5	104.3	101.2
80°	116.1	119.7	120.8	117.9	114.3	103.6	94.0	87.5	80.9	78.6	77.4
82.5°	86.1	89.2	86.1	86.9	79.0	70.3	65.0	62.8	60.0	59.1	57.9
85°	45.8	45.2	44.1	41.1	35.7	34.5	33.9	33.3	32.1	32.7	31.5
87.5°	16.7	15.7	14.2	14.1	14.5	13.9	14.6	15.0	15.2	15.0	16.2
90°	4.7	6.9	9.0	11.1	13.0	14.6	16.1	17.7	19.2	20.3	21.5
92.5°	21.1	23.6	26.0	28.4	30.2	31.3	32.4	33.5	34.5	35.2	35.9
95°	54.1	55.8	57.6	59.3	60.9	62.3	63.5	64.9	66.3	66.9	67.4
97.5°	92.8	94.2	95.6	97.0	98.5	100.0	101.7	103.2	104.9	105.6	106.2
100°	122.9	123.6	124.4	125.2	126.5	128.2	129.9	131.7	133.5	133.8	134.2
102.5°	154.5	154.8	155.2	155.4	156.4	158.0	159.5	161.2	162.7	163.3	163.8
105°	203.5	203.6	203.8	204.0	204.5	205.3	206.0	206.8	207.6	208.2	208.8
107.5°	254.9	255.1	255.4	255.6	255.8	255.9	256.1	256.1	256.2	256.8	257.4
110°	290.0	290.3	290.8	291.1	291.2	291.0	290.8	290.7	290.4	290.1	289.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	326.0	326.1	326.1	326.1	326.1	325.7	325.4	325.0	324.7	324.6	324.5
115°	380.3	380.3	380.3	380.3	380.1	379.7	379.4	378.9	378.6	378.3	378.2
117.5°	431.7	431.9	432.0	432.2	432.1	431.9	431.6	431.4	431.0	430.4	429.7
120°	466.6	467.4	468.1	468.9	469.0	468.4	467.8	467.3	466.7	465.7	464.7
122.5°	501.7	502.0	502.3	502.6	502.7	502.3	502.0	501.8	501.5	500.8	500.2
125°	553.9	553.9	553.9	553.9	553.8	553.5	553.4	553.2	553.0	552.6	552.2
127.5°	602.1	602.6	603.2	603.8	604.0	603.6	603.3	603.0	602.7	602.4	601.9
130°	635.6	636.1	636.7	637.3	637.6	637.6	637.6	637.6	637.6	637.2	636.8
132.5°	669.6	670.0	670.5	670.9	671.0	670.9	670.7	670.5	670.4	670.0	669.6
135°	715.5	716.7	717.8	719.0	719.6	719.6	719.6	719.6	719.6	719.2	718.8
137.5°	764.1	764.7	765.2	765.7	766.1	766.5	766.8	767.1	767.4	766.9	766.4
140°	796.8	797.1	797.5	797.9	798.1	798.1	798.1	798.1	798.1	797.9	797.7
142.5°	826.7	827.2	827.5	827.9	828.0	827.9	827.7	827.6	827.4	827.3	827.3
145°	868.7	869.4	870.2	871.0	871.4	871.7	871.8	872.0	872.2	872.0	871.8
147.5°	910.0	910.9	911.8	912.7	913.2	913.0	912.8	912.7	912.5	912.4	912.2
150°	935.0	935.7	936.5	937.3	937.6	937.6	937.6	937.6	937.6	937.6	937.6
152.5°	958.4	958.8	959.2	959.8	960.0	960.2	960.4	960.5	960.7	961.1	961.6
155°	994.4	994.4	994.4	994.4	994.3	994.0	993.9	993.7	993.5	994.3	995.1
157.5°	1024.7	1024.3	1024.0	1023.6	1023.5	1023.4	1023.4	1023.3	1023.3	1023.9	1024.5
160°	1043.0	1042.8	1042.6	1042.4	1042.2	1042.0	1041.8	1041.6	1041.5	1042.0	1042.6
162.5°	1059.5	1058.9	1058.4	1057.9	1057.6	1057.4	1057.2	1057.0	1056.8	1057.8	1058.9
165°	1081.8	1081.2	1080.7	1080.1	1079.6	1079.3	1078.8	1078.5	1078.1	1079.3	1080.4
167.5°	1098.9	1098.1	1097.3	1096.5	1096.1	1096.1	1096.1	1096.1	1096.2	1097.3	1098.5
170°	1108.5	1107.5	1106.6	1105.6	1105.2	1105.4	1105.6	1105.8	1106.0	1107.2	1108.3
172.5°	1115.6	1114.8	1114.0	1113.2	1112.8	1112.8	1112.9	1112.9	1112.9	1114.3	1115.6
175°	1125.1	1124.1	1123.2	1122.1	1121.6	1121.4	1121.2	1121.0	1120.8	1122.1	1123.5
177.5°	1128.4	1127.7	1126.9	1126.1	1125.7	1125.7	1125.7	1125.7	1125.7	1126.8	1127.9
180°	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1549.7	1551.6	1553.1	1557.8	1558.2	1562.5	1558.2
5°	1677.9	1686.3	1699.4	1712.4	1713.6	1721.9	1707.1
7.5°	1821.7	1841.0	1853.0	1874.2	1882.6	1887.7	1879.2
10°	1920.7	1938.6	1970.1	1985.6	2001.1	2003.5	1996.3
12.5°	2016.5	2044.8	2069.7	2098.9	2098.3	2119.2	2111.6
15°	2144.0	2173.2	2207.6	2240.4	2252.3	2252.3	2261.8
17.5°	2234.9	2288.4	2324.1	2349.8	2377.9	2382.7	2379.5
20°	2296.4	2354.1	2392.2	2425.5	2444.6	2449.9	2449.9
22.5°	2342.0	2391.2	2428.4	2458.3	2474.1	2480.4	2478.5
25°	2373.7	2416.0	2438.6	2447.5	2451.7	2450.5	2439.2
27.5°	2330.4	2328.5	2314.2	2286.8	2266.2	2253.8	2239.5
30°	2247.6	2216.6	2180.8	2141.6	2091.0	2052.3	2040.4
32.5°	2124.2	2054.7	1994.2	1928.7	1874.3	1835.7	1819.5
35°	1885.7	1775.6	1685.7	1607.1	1550.0	1514.2	1502.4
37.5°	1602.6	1496.0	1384.7	1308.5	1261.1	1225.0	1211.6
40°	1422.5	1306.5	1209.4	1138.1	1089.3	1054.1	1053.5
42.5°	1258.3	1147.5	1056.2	1004.7	952.1	928.8	928.8
45°	1030.3	941.6	864.3	823.8	792.2	773.2	767.8
47.5°	853.1	779.7	728.1	695.9	670.2	658.1	650.2
50°	753.5	689.2	648.2	620.2	605.9	590.5	589.3
52.5°	670.7	618.8	586.8	564.0	546.0	536.7	536.9
55°	563.7	522.6	500.0	482.7	468.5	461.3	458.3
57.5°	474.8	444.0	427.6	411.7	405.7	400.1	398.6
60°	419.7	398.8	383.3	370.8	361.9	360.1	359.5
62.5°	373.9	352.1	341.4	331.7	325.2	322.4	321.4
65°	308.3	292.2	282.8	275.0	272.6	268.5	267.9
67.5°	248.6	238.9	232.6	227.2	224.0	223.8	223.8
70°	211.9	206.6	201.2	198.2	196.4	195.2	195.2
72.5°	180.5	176.5	172.1	170.6	170.2	169.0	168.6
75°	137.5	133.4	133.9	131.0	128.5	125.6	123.8
77.5°	97.5	94.5	93.9	93.6	91.5	91.2	92.1
80°	75.6	72.6	72.0	72.6	72.0	70.3	70.3
82.5°	57.5	55.0	54.4	54.1	53.5	54.1	53.1
85°	30.9	29.8	29.8	29.8	30.9	30.4	29.8
87.5°	15.5	15.2	15.8	15.5	15.6	15.2	15.7
90°	22.6	23.8	24.6	25.0	25.4	25.7	26.2
92.5°	36.6	37.4	37.8	38.1	38.2	38.5	38.7
95°	68.0	68.6	68.9	68.9	68.9	68.9	68.9
97.5°	106.9	107.6	108.0	108.0	108.0	108.0	108.0
100°	134.6	135.0	135.2	135.2	135.2	135.2	135.2
102.5°	164.4	165.0	165.3	165.4	165.6	165.7	165.9
105°	209.3	209.9	210.5	211.1	211.6	212.2	212.8
107.5°	257.9	258.5	258.6	258.6	258.6	258.6	258.6
110°	289.3	288.9	289.0	289.6	290.2	290.8	291.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	324.4	324.3	324.3	324.5	324.6	324.7	324.9
115°	378.0	377.8	377.5	377.4	377.2	377.0	376.8
117.5°	429.0	428.4	427.9	427.5	427.1	426.7	426.4
120°	463.7	462.8	462.4	462.9	463.2	463.6	464.0
122.5°	499.6	498.9	498.2	497.5	496.8	496.1	495.4
125°	551.8	551.5	551.0	550.7	550.3	549.9	549.5
127.5°	601.6	601.2	600.8	600.5	600.2	599.9	599.6
130°	636.5	636.0	635.5	634.7	634.0	633.2	632.4
132.5°	669.3	668.8	668.5	668.2	667.9	667.5	667.3
135°	718.4	718.1	717.6	717.0	716.4	715.8	715.2
137.5°	765.9	765.3	765.2	765.3	765.4	765.5	765.6
140°	797.5	797.3	797.1	796.9	796.8	796.5	796.3
142.5°	827.2	827.2	827.2	827.2	827.2	827.1	827.1
145°	871.7	871.4	871.1	870.5	869.9	869.4	868.7
147.5°	912.1	911.9	911.7	911.5	911.4	911.1	910.9
150°	937.6	937.6	937.5	937.4	937.2	936.9	936.8
152.5°	962.1	962.5	962.5	962.0	961.5	961.0	960.5
155°	995.8	996.6	996.6	995.8	995.1	994.3	993.5
157.5°	1025.0	1025.6	1025.6	1024.9	1024.2	1023.6	1023.0
160°	1043.2	1043.8	1043.5	1042.6	1041.6	1040.7	1039.7
162.5°	1059.9	1061.0	1061.0	1060.1	1059.1	1058.1	1057.1
165°	1081.6	1082.7	1082.9	1082.1	1081.3	1080.6	1079.8
167.5°	1099.7	1100.9	1100.9	1099.7	1098.5	1097.3	1096.1
170°	1109.5	1110.6	1110.5	1109.2	1107.8	1106.5	1105.1
172.5°	1116.9	1118.3	1118.2	1116.9	1115.5	1114.1	1112.8
175°	1124.9	1126.3	1126.3	1124.9	1123.5	1122.1	1120.8
177.5°	1128.9	1130.1	1130.0	1128.7	1127.5	1126.3	1125.0
180°	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8

(END OF REPORT)