

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: P333709-935

Luminaire Tested: **S125RDIW-S1090D1050U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333709-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125RDIW-S1090D1050U935-4F0-1E-UDD-A1
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1090 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: 6798.3 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.22 / 1.47
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')
CIE Type: General Diffuse

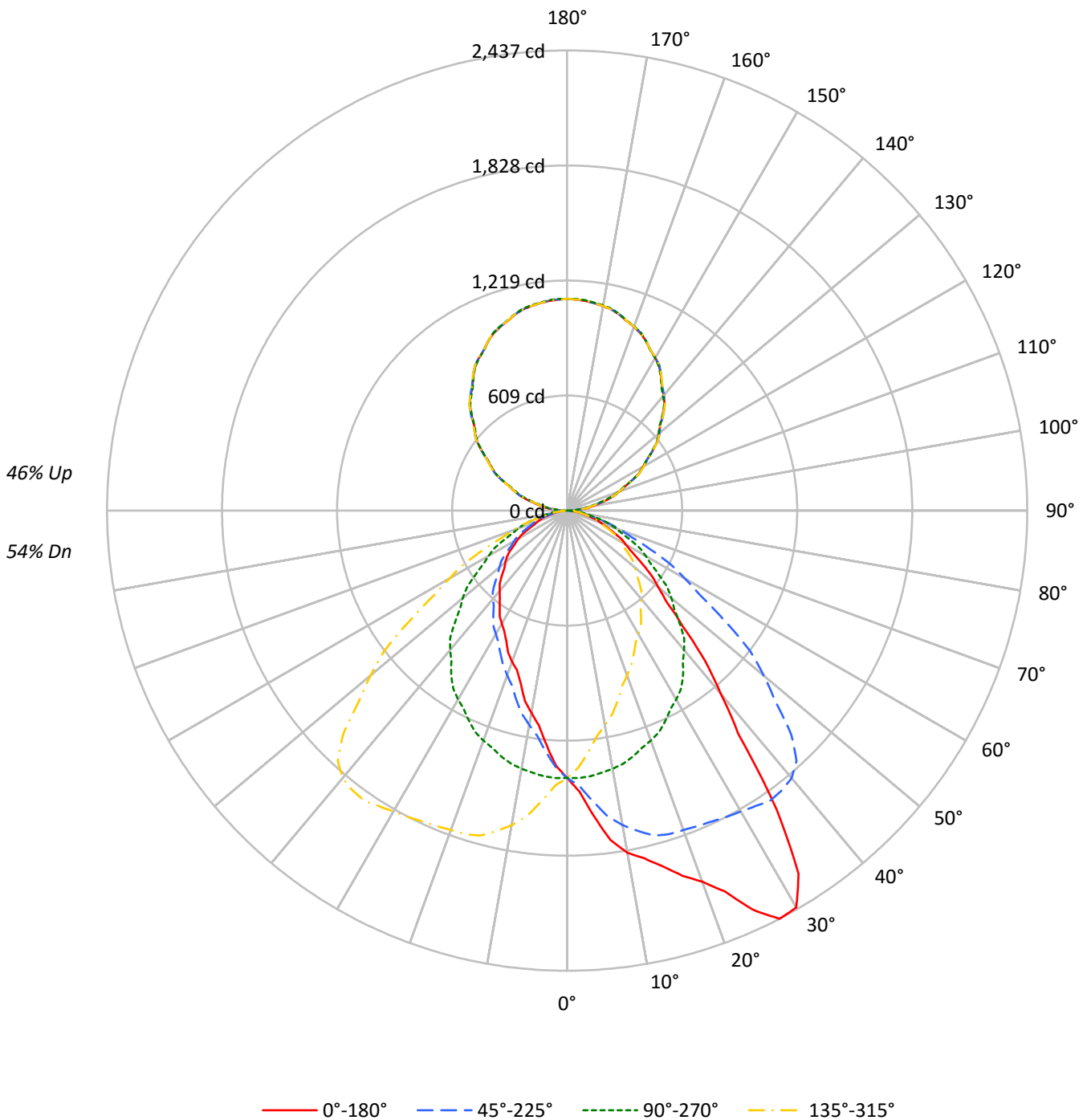
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333709-935

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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	73	71	64	63	61	54	52	51	46
2	91	83	77	72	84	78	73	68	67	63	60	57	54	52	48	46	44	40
3	83	74	67	61	77	69	62	57	59	55	51	51	47	44	43	40	38	34
4	76	65	58	52	70	61	54	49	53	48	43	45	41	38	38	35	33	29
5	70	58	50	45	65	55	48	42	48	42	38	41	37	33	35	31	29	26
6	64	53	45	39	60	49	42	37	43	37	33	37	33	29	31	28	26	23
7	60	48	40	34	55	45	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	36	30	51	41	34	29	36	30	26	31	26	23	26	23	20	18
9	52	39	32	27	48	37	30	26	33	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	28	23	30	25	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9143	9143	9143	9143
5°	10519	9155	8085	9155
10°	12066	9108	7134	9108
15°	13032	9014	6341	9014
20°	14370	8906	5856	8906
25°	16631	8763	5433	8763
30°	18098	8611	5158	8611
35°	15266	8435	4902	8435
40°	10662	8118	4683	8118
45°	7909	7691	4469	7691
50°	6306	7246	4285	7246
55°	5353	6694	4122	6694
60°	4624	6200	3858	6200
65°	4121	5665	3321	5665
70°	3620	5189	3029	5189
75°	3132	4494	2842	4494
80°	2377	3782	2377	3782
85°	1979	2971	2238	2971



TEST NUMBER: P333709-935

CATALOG NUMBER: S125RDIW-S1090D1050U935-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.8	2.0
10°-20°	397.8	5.9
20°-30°	630.8	9.3
30°-40°	760.7	11.2
40°-50°	679.3	10.0
50°-60°	520.9	7.7
60°-70°	338.5	5.0
70°-80°	164.6	2.4
80°-90°	41.7	0.6
90°-100°	75.1	1.1
100°-110°	221.7	3.3
110°-120°	375.6	5.5
120°-130°	494.3	7.3
130°-140°	553.8	8.1
140°-150°	542.8	8.0
150°-160°	455.9	6.7
160°-170°	303.0	4.5
170°-180°	106.1	1.6
0°-30°	1164.4	17.1
0°-40°	1925.0	28.3
0°-60°	3125.2	46.0
0°-90°	3670.1	54.0
90°-120°	672.4	9.9
90°-150°	2263.2	33.3
90°-180°	3128.0	46.0
0°-180°	6798.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1416	1416	1416	1416	1416	
5°	1622	1412	1247	1412	1622	162
15°	1949	1348	948	1348	1949	559
25°	2334	1230	762	1230	2334	1072
35°	1936	1070	622	1070	1936	1170
45°	866	842	489	842	866	691
55°	475	594	366	594	475	431
65°	270	371	217	371	270	268
75°	126	180	114	180	126	134
85°	27	40	30	40	27	31
90°	21	1	21	1	21	13
95°	75	57	75	57	75	76
105°	216	199	216	199	216	229
115°	380	376	380	376	380	375
125°	552	549	552	549	552	493
135°	716	714	716	714	716	553
145°	868	864	868	864	868	542
155°	989	989	989	989	989	455
165°	1073	1076	1073	1076	1073	302
175°	1114	1118	1114	1118	1114	106
180°	1121	1121	1121	1121	1121	



TEST NUMBER: P333709-935

CATALOG NUMBER: S125RDIW-S1090D1050U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7
2.5°	1489.1	1488.2	1490.0	1484.9	1485.4	1477.5	1477.5	1471.4	1463.5	1457.5	1454.7
5°	1622.5	1623.7	1621.3	1612.7	1606.8	1598.1	1588.2	1570.8	1556.3	1542.3	1531.3
7.5°	1759.9	1760.7	1753.0	1750.3	1735.7	1725.0	1703.1	1679.3	1658.3	1631.6	1611.1
10°	1839.9	1839.3	1831.1	1824.7	1812.0	1795.7	1774.2	1746.3	1720.1	1691.1	1663.2
12.5°	1886.4	1884.8	1882.2	1874.5	1862.6	1848.2	1830.0	1802.5	1770.3	1738.5	1706.0
15°	1949.1	1945.0	1937.5	1927.6	1910.7	1893.9	1873.5	1849.2	1818.3	1782.3	1752.1
17.5°	2026.7	2026.9	2015.3	2001.5	1978.6	1948.9	1917.4	1878.1	1836.3	1796.6	1764.4
20°	2090.9	2089.1	2077.5	2050.8	2024.6	1987.4	1951.5	1903.2	1852.0	1800.4	1760.2
22.5°	2183.0	2178.4	2166.3	2131.2	2090.7	2042.8	1987.7	1928.7	1866.9	1808.2	1755.6
25°	2333.8	2330.3	2306.4	2265.8	2208.9	2135.0	2063.0	1982.2	1893.3	1816.0	1752.1
27.5°	2437.0	2433.2	2415.5	2381.7	2329.2	2251.5	2154.0	2046.0	1935.0	1828.7	1736.6
30°	2426.8	2435.5	2433.2	2417.5	2378.0	2308.3	2218.2	2096.7	1964.8	1839.9	1730.0
32.5°	2280.8	2288.6	2309.0	2339.9	2342.2	2314.3	2247.0	2134.8	1998.3	1856.1	1724.9
35°	1936.3	1946.8	1986.3	2048.5	2129.9	2197.8	2211.7	2151.3	2028.7	1875.9	1717.3
37.5°	1488.6	1545.8	1579.1	1644.5	1767.5	1892.5	2012.8	2057.1	2004.8	1867.8	1704.8
40°	1264.6	1278.5	1337.7	1411.5	1515.0	1645.2	1816.6	1940.3	1944.5	1849.2	1685.2
42.5°	1082.3	1099.9	1140.7	1199.5	1288.1	1418.3	1595.3	1758.6	1834.3	1798.0	1659.7
45°	865.9	879.3	908.9	954.2	1022.2	1129.7	1281.9	1470.8	1620.7	1679.5	1591.1
47.5°	711.3	718.5	744.3	778.9	829.1	907.5	1025.4	1189.3	1369.2	1495.2	1482.8
50°	627.6	635.8	655.5	681.7	724.1	790.3	884.5	1021.1	1206.4	1360.4	1391.2
52.5°	562.5	569.3	581.6	606.3	641.4	692.2	768.3	891.8	1058.6	1222.4	1293.6
55°	475.4	480.0	489.9	503.9	531.8	568.3	634.0	719.5	854.3	1019.3	1123.9
57.5°	403.6	405.9	412.2	425.1	444.4	471.1	518.5	590.9	687.6	836.2	951.7
60°	358.0	360.3	368.4	377.1	392.3	416.6	453.8	504.4	597.4	720.1	836.8
62.5°	321.7	323.1	326.6	335.3	348.5	367.4	396.7	437.9	511.9	619.6	729.9
65°	269.7	270.2	271.4	278.4	286.5	300.4	319.6	348.7	404.5	485.9	583.4
67.5°	219.6	220.5	224.5	227.0	235.5	242.8	254.1	276.3	315.6	370.4	446.3
70°	191.7	191.2	195.3	198.2	201.0	209.8	217.3	235.4	259.8	301.6	365.0
72.5°	165.7	164.2	166.0	167.0	170.8	176.8	184.3	195.4	214.2	243.1	291.5
75°	125.5	126.1	126.1	127.3	130.2	132.5	134.8	140.6	151.1	170.3	196.4
77.5°	88.1	87.1	89.6	90.0	91.7	94.3	96.3	98.6	102.9	110.7	124.2
80°	63.9	63.9	64.5	66.2	65.7	66.8	69.7	72.1	77.3	82.0	86.6
82.5°	49.1	48.6	49.2	49.5	49.4	50.5	51.6	52.1	54.1	56.4	59.6
85°	26.7	26.7	27.3	27.3	27.9	27.9	28.5	28.5	28.5	29.0	29.6
87.5°	14.4	13.9	13.3	13.2	13.5	14.3	13.6	12.9	12.7	12.6	12.7
90°	20.9	20.3	19.8	19.2	18.6	17.8	16.9	15.9	14.9	13.9	12.6
92.5°	41.2	40.7	40.3	39.9	39.4	38.7	37.4	36.1	34.8	33.5	31.9
95°	75.0	74.6	74.2	73.9	73.4	72.6	71.2	69.9	68.5	67.2	65.3
97.5°	113.7	113.6	113.3	113.0	112.8	112.1	110.8	109.5	108.2	106.9	104.3
100°	143.1	142.7	142.3	141.9	141.5	140.4	138.7	137.0	135.3	133.5	131.0
102.5°	172.4	171.9	171.3	170.7	170.2	169.0	167.1	165.2	163.3	161.4	160.1
105°	216.4	215.8	215.2	214.6	214.0	213.2	212.0	210.9	209.7	208.5	207.3
107.5°	261.4	261.4	261.5	261.5	261.6	261.2	260.7	260.1	259.5	258.9	258.0
110°	294.9	295.1	295.2	295.5	295.7	295.5	294.9	294.3	293.7	293.2	292.6



TEST NUMBER: P333709-935

CATALOG NUMBER: S125RDIW-S1090D1050U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	327.7	328.0	328.4	328.7	329.1	329.1	328.8	328.6	328.3	328.0	327.3
115°	379.5	379.7	379.9	380.0	380.3	380.5	380.6	380.8	381.1	381.3	380.8
117.5°	430.1	430.8	431.6	432.4	433.2	433.5	433.3	433.2	433.1	432.9	432.6
120°	465.0	465.8	466.6	467.4	468.1	468.5	468.5	468.5	468.5	468.5	468.3
122.5°	499.9	500.5	501.1	501.8	502.4	502.7	502.9	503.1	503.3	503.4	502.9
125°	552.2	552.4	552.6	552.8	553.0	553.3	553.7	554.1	554.5	554.8	554.7
127.5°	602.5	602.9	603.3	603.6	604.1	604.3	604.5	604.7	604.9	605.1	604.9
130°	636.0	636.4	636.8	637.1	637.6	637.8	638.0	638.3	638.4	638.6	638.3
132.5°	667.4	668.0	668.5	669.0	669.6	669.9	670.1	670.3	670.5	670.7	670.8
135°	716.3	717.0	717.8	718.6	719.4	719.7	719.7	719.7	719.7	719.7	719.5
137.5°	764.1	765.0	766.0	767.0	767.9	768.3	768.1	767.8	767.6	767.4	767.0
140°	794.8	795.7	796.7	797.7	798.7	798.9	798.6	798.1	797.8	797.4	796.8
142.5°	824.1	825.1	826.0	827.0	827.9	828.4	828.1	827.9	827.6	827.4	826.6
145°	868.1	868.7	869.2	869.8	870.4	870.6	870.6	870.6	870.6	870.6	870.1
147.5°	905.6	906.9	908.2	909.6	910.9	911.3	910.8	910.3	909.9	909.4	909.0
150°	933.5	933.8	934.3	934.6	935.0	935.2	935.2	935.2	935.2	935.2	934.4
152.5°	956.5	957.2	957.9	958.6	959.3	959.4	959.0	958.5	958.0	957.6	957.3
155°	989.3	990.3	991.3	992.2	993.2	993.3	992.6	991.8	991.0	990.2	990.0
157.5°	1016.8	1018.0	1019.3	1020.5	1021.8	1022.1	1021.3	1020.5	1019.8	1019.0	1018.8
160°	1035.5	1036.6	1037.5	1038.5	1039.4	1039.6	1038.8	1038.0	1037.2	1036.5	1036.2
162.5°	1051.6	1052.7	1053.9	1055.0	1056.1	1056.2	1055.2	1054.4	1053.4	1052.5	1052.5
165°	1073.1	1074.3	1075.4	1076.6	1077.7	1077.9	1077.1	1076.3	1075.6	1074.8	1074.6
167.5°	1090.2	1091.4	1092.6	1093.8	1095.0	1095.0	1093.8	1092.7	1091.5	1090.4	1090.4
170°	1099.2	1100.6	1102.0	1103.3	1104.7	1104.7	1103.6	1102.4	1101.3	1100.1	1100.1
172.5°	1106.9	1108.1	1109.3	1110.5	1111.7	1111.7	1110.6	1109.4	1108.3	1107.1	1107.1
175°	1114.0	1115.4	1116.8	1118.2	1119.5	1119.6	1118.4	1117.2	1116.1	1114.9	1114.9
177.5°	1118.3	1119.4	1120.4	1121.5	1122.6	1122.7	1121.8	1120.8	1119.9	1119.0	1119.1
180°	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0



TEST NUMBER: P333709-935

CATALOG NUMBER: S125RDIW-S1090D1050U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7
2.5°	1454.7	1451.4	1445.4	1439.8	1432.8	1426.8	1422.6	1417.5	1411.0	1403.1	1396.5
5°	1519.1	1506.2	1489.4	1474.9	1456.3	1441.7	1426.7	1412.1	1397.6	1379.0	1362.7
7.5°	1590.4	1564.0	1538.3	1506.1	1476.8	1450.6	1425.5	1400.1	1375.2	1348.8	1323.4
10°	1634.1	1602.1	1566.7	1526.0	1488.8	1453.4	1420.8	1388.9	1355.2	1325.5	1293.6
12.5°	1675.1	1633.7	1593.2	1541.9	1497.2	1453.9	1412.5	1372.6	1336.6	1298.1	1263.9
15°	1712.0	1671.3	1626.0	1563.2	1501.1	1448.7	1399.9	1348.2	1303.5	1260.4	1222.1
17.5°	1726.3	1683.6	1631.0	1570.6	1502.7	1436.9	1374.0	1317.3	1264.6	1214.5	1171.4
20°	1720.7	1679.5	1625.4	1567.9	1495.2	1426.7	1358.7	1295.9	1237.3	1184.3	1138.4
22.5°	1707.2	1664.6	1612.4	1551.6	1482.6	1409.9	1337.3	1270.3	1208.8	1154.1	1104.1
25°	1687.0	1628.9	1575.5	1516.1	1450.5	1378.5	1303.5	1229.7	1164.0	1108.2	1053.6
27.5°	1665.9	1593.5	1525.4	1466.5	1397.1	1332.8	1260.6	1184.9	1115.9	1059.0	1003.0
30°	1646.9	1565.6	1490.6	1423.7	1358.1	1297.1	1228.5	1154.7	1083.8	1025.1	968.2
32.5°	1623.2	1536.7	1454.3	1377.3	1313.9	1253.4	1191.3	1120.8	1051.7	991.2	933.3
35°	1593.5	1483.1	1393.5	1311.6	1241.3	1182.6	1126.8	1069.9	1000.7	938.0	881.6
37.5°	1554.4	1429.1	1325.5	1236.3	1162.1	1103.2	1059.1	1007.1	944.0	883.9	831.6
40°	1530.7	1390.1	1276.7	1188.4	1110.5	1048.4	1007.1	962.9	905.4	849.0	796.7
42.5°	1499.1	1354.3	1227.4	1135.4	1057.0	997.2	955.5	916.9	868.7	815.5	759.5
45°	1437.1	1284.9	1151.8	1053.0	974.0	915.2	876.3	842.1	805.5	756.6	707.8
47.5°	1356.4	1212.5	1073.2	965.4	887.9	833.4	795.7	768.6	742.4	700.9	653.5
50°	1291.8	1153.0	1016.9	912.4	829.8	778.1	742.7	721.2	697.3	659.6	620.1
52.5°	1215.6	1091.6	958.4	851.4	773.6	725.1	691.0	669.6	650.0	619.1	581.4
55°	1095.5	986.8	864.7	767.7	696.2	647.4	614.8	594.5	582.9	556.7	527.1
57.5°	956.7	878.9	771.3	677.7	614.5	566.3	542.4	525.1	512.0	493.5	472.6
60°	860.1	805.5	708.9	620.1	562.0	516.0	494.6	480.0	467.8	452.1	435.8
62.5°	762.0	722.2	638.3	562.0	508.5	470.0	449.9	436.8	422.8	412.2	396.3
65°	630.5	595.0	536.9	477.1	427.7	396.9	382.4	370.7	362.1	350.4	339.4
67.5°	490.5	476.0	435.9	394.7	359.2	331.8	319.3	311.2	300.7	293.7	286.1
70°	404.5	397.5	369.0	341.7	308.6	290.0	278.4	274.8	262.1	255.1	249.9
72.5°	328.2	324.9	308.6	289.6	266.3	250.0	239.3	235.4	227.2	221.6	218.3
75°	224.9	226.1	223.2	210.9	202.2	191.7	182.4	180.1	174.4	169.7	166.8
77.5°	142.2	148.2	148.4	147.8	144.4	137.9	134.1	132.4	126.7	124.9	124.2
80°	97.6	104.0	109.9	109.3	108.1	106.3	103.4	101.7	98.8	97.0	95.9
82.5°	65.1	71.0	75.9	79.0	78.8	77.1	75.1	74.3	73.7	72.4	72.2
85°	30.8	31.9	33.7	37.8	40.6	41.2	40.6	40.1	38.3	38.9	39.5
87.5°	12.9	12.7	12.8	12.6	11.8	13.8	14.9	15.1	14.5	13.8	13.2
90°	11.3	9.9	8.5	7.1	5.5	4.0	2.4	0.9	2.4	4.0	5.5
92.5°	30.1	28.5	26.9	25.5	24.4	23.2	22.2	21.1	22.2	23.2	24.4
95°	63.3	61.4	59.4	58.3	57.9	57.5	57.1	56.7	57.1	57.5	57.9
97.5°	101.6	98.9	96.3	94.9	94.7	94.5	94.4	94.2	94.4	94.5	94.7
100°	128.5	125.9	123.4	122.2	122.2	122.2	122.2	122.2	122.2	122.2	122.2
102.5°	158.9	157.6	156.3	155.2	154.5	153.7	152.9	152.1	152.9	153.7	154.5
105°	206.2	205.0	203.9	202.8	201.8	200.9	199.8	198.9	199.8	200.9	201.8
107.5°	257.2	256.2	255.4	254.4	253.5	252.5	251.5	250.6	251.5	252.5	253.5
110°	292.0	291.4	290.8	290.1	289.0	288.1	287.1	286.1	287.1	288.1	289.0



TEST NUMBER: P333709-935

CATALOG NUMBER: S125RDIW-S1090D1050U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	326.6	325.8	325.1	324.4	324.0	323.5	323.0	322.4	323.0	323.5	324.0
115°	380.5	380.0	379.7	379.1	378.3	377.5	376.8	376.0	376.8	377.5	378.3
117.5°	432.2	431.9	431.5	431.2	430.8	430.4	430.1	429.7	430.1	430.4	430.8
120°	468.1	467.9	467.7	467.1	466.1	465.2	464.3	463.2	464.3	465.2	466.1
122.5°	502.4	501.9	501.4	500.9	500.6	500.2	499.9	499.6	499.9	500.2	500.6
125°	554.5	554.3	554.1	553.4	552.2	551.0	549.9	548.7	549.9	551.0	552.2
127.5°	604.7	604.4	604.2	603.7	603.0	602.4	601.8	601.1	601.8	602.4	603.0
130°	637.8	637.5	637.1	636.4	635.4	634.5	633.4	632.5	633.4	634.5	635.4
132.5°	670.9	671.0	671.1	670.3	668.7	667.1	665.5	663.9	665.5	667.1	668.7
135°	719.4	719.2	718.9	718.3	717.1	715.9	714.8	713.6	714.8	715.9	717.1
137.5°	766.5	766.1	765.7	764.9	763.8	762.7	761.6	760.4	761.6	762.7	763.8
140°	796.3	795.7	795.0	794.3	793.3	792.4	791.3	790.4	791.3	792.4	793.3
142.5°	826.0	825.2	824.5	823.7	822.9	822.1	821.2	820.4	821.2	822.1	822.9
145°	869.5	868.9	868.3	867.6	866.9	866.1	865.3	864.5	865.3	866.1	866.9
147.5°	908.4	908.0	907.6	907.1	906.6	906.3	905.9	905.4	905.9	906.3	906.6
150°	933.7	932.9	932.1	931.9	932.0	932.2	932.5	932.6	932.5	932.2	932.0
152.5°	956.9	956.7	956.3	956.1	955.8	955.5	955.2	954.9	955.2	955.5	955.8
155°	989.8	989.6	989.4	989.3	989.3	989.3	989.3	989.3	989.3	989.3	989.3
157.5°	1018.6	1018.4	1018.2	1018.3	1018.7	1019.2	1019.6	1020.0	1019.6	1019.2	1018.7
160°	1036.0	1035.9	1035.7	1035.9	1036.5	1037.0	1037.6	1038.2	1037.6	1037.0	1036.5
162.5°	1052.4	1052.4	1052.3	1052.5	1052.9	1053.3	1053.8	1054.2	1053.8	1053.3	1052.9
165°	1074.4	1074.3	1074.0	1074.1	1074.5	1074.9	1075.3	1075.7	1075.3	1074.9	1074.5
167.5°	1090.4	1090.4	1090.4	1090.7	1091.5	1092.3	1093.0	1093.8	1093.0	1092.3	1091.5
170°	1100.1	1100.1	1100.1	1100.5	1101.3	1102.1	1102.9	1103.6	1102.9	1102.1	1101.3
172.5°	1107.1	1107.1	1107.1	1107.5	1108.3	1109.1	1109.8	1110.6	1109.8	1109.1	1108.3
175°	1114.9	1114.9	1114.9	1115.3	1116.1	1116.9	1117.7	1118.4	1117.7	1116.9	1116.1
177.5°	1119.3	1119.4	1119.6	1120.0	1120.6	1121.2	1121.8	1122.5	1121.8	1121.2	1120.6
180°	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0



TEST NUMBER: P333709-935

CATALOG NUMBER: S125RDIW-S1090D1050U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7
2.5°	1391.9	1385.4	1380.8	1371.5	1364.9	1362.2	1357.0	1355.6	1360.7	1357.0	1356.6
5°	1350.6	1333.7	1320.3	1306.9	1292.4	1283.1	1269.2	1266.9	1263.3	1258.1	1257.0
7.5°	1300.9	1278.9	1261.7	1239.7	1220.5	1205.1	1187.6	1179.3	1174.8	1168.0	1159.0
10°	1267.4	1241.3	1218.1	1195.9	1172.2	1153.0	1135.5	1122.1	1113.4	1105.3	1101.8
12.5°	1234.4	1207.8	1178.0	1151.3	1124.7	1103.2	1083.9	1075.2	1065.6	1056.0	1047.9
15°	1183.2	1147.7	1115.2	1084.3	1061.7	1038.5	1019.9	1007.1	992.6	988.5	972.8
17.5°	1128.8	1094.0	1055.9	1023.5	997.2	971.6	951.1	936.7	925.7	910.8	903.5
20°	1094.8	1053.6	1016.4	986.8	957.7	927.5	906.5	894.3	883.9	871.7	865.9
22.5°	1058.6	1018.2	980.2	945.4	915.8	886.1	871.2	858.6	846.7	835.4	827.8
25°	1005.3	964.7	924.5	888.6	857.7	836.2	818.8	804.3	797.9	786.9	778.7
27.5°	952.7	909.5	867.9	831.9	807.8	786.5	772.2	760.7	749.2	739.5	732.5
30°	918.8	874.6	829.2	800.8	775.2	754.8	739.2	728.1	719.5	710.8	705.5
32.5°	884.8	839.3	799.0	768.3	744.1	726.5	710.3	699.8	690.6	681.0	674.8
35°	830.4	783.9	751.4	721.2	697.3	681.1	670.0	655.0	647.4	640.4	634.0
37.5°	779.9	736.7	701.5	674.9	654.2	638.1	623.8	615.6	606.3	600.0	594.7
40°	742.7	703.2	671.2	643.3	628.2	610.2	596.8	586.3	579.4	571.3	565.4
42.5°	709.2	672.4	641.4	616.3	597.5	582.3	569.4	559.0	550.1	544.3	539.4
45°	661.9	625.3	595.0	571.8	554.4	539.8	526.5	521.2	509.6	502.7	500.3
47.5°	612.9	580.2	551.0	529.6	511.8	498.0	485.4	474.8	468.4	461.5	457.8
50°	580.0	548.5	521.2	500.3	482.9	467.8	456.2	449.2	440.5	434.1	429.5
52.5°	547.0	517.9	490.6	470.6	455.5	440.4	427.4	420.4	412.2	408.0	404.8
55°	499.8	469.0	445.7	425.9	410.3	396.3	384.1	377.1	372.0	367.8	366.7
57.5°	446.3	421.9	400.3	382.5	366.2	353.1	342.4	335.8	331.1	330.5	327.1
60°	411.5	389.3	369.6	350.4	336.5	324.3	315.0	307.4	302.7	302.2	301.0
62.5°	376.6	355.4	337.1	320.2	307.6	295.9	287.1	278.6	275.8	272.9	270.4
65°	324.9	305.7	290.6	277.2	263.8	253.9	245.2	240.0	233.6	230.1	223.8
67.5°	274.1	259.2	244.7	233.4	222.9	213.5	206.3	198.5	194.2	191.4	186.8
70°	240.6	228.9	214.5	202.2	194.1	186.6	180.7	172.0	169.1	166.8	164.5
72.5°	209.0	198.7	186.6	176.7	168.5	161.4	154.7	150.6	147.7	145.4	144.0
75°	164.5	154.5	144.1	137.2	131.3	125.5	122.0	119.2	118.0	117.4	115.0
77.5°	120.8	115.5	107.2	101.6	97.7	95.4	92.3	90.7	90.7	88.1	87.3
80°	92.4	89.5	82.5	80.2	77.3	75.0	73.2	70.3	67.4	66.2	64.5
82.5°	68.7	65.8	63.0	59.2	56.8	55.4	53.7	52.6	53.0	51.4	50.5
85°	36.6	33.7	32.5	31.9	30.8	31.9	31.3	30.8	30.2	29.6	30.2
87.5°	13.0	13.3	13.2	14.4	13.2	13.9	14.1	13.9	14.0	14.3	13.9
90°	7.1	8.5	9.9	11.3	12.6	13.9	14.9	15.9	16.9	17.8	18.6
92.5°	25.5	26.9	28.5	30.1	31.9	33.5	34.8	36.1	37.4	38.7	39.4
95°	58.3	59.4	61.4	63.3	65.3	67.2	68.5	69.9	71.2	72.6	73.4
97.5°	94.9	96.3	98.9	101.6	104.3	106.9	108.2	109.5	110.8	112.1	112.8
100°	122.2	123.4	125.9	128.5	131.0	133.5	135.3	137.0	138.7	140.4	141.5
102.5°	155.2	156.3	157.6	158.9	160.1	161.4	163.3	165.2	167.1	169.0	170.2
105°	202.8	203.9	205.0	206.2	207.3	208.5	209.7	210.9	212.0	213.2	214.0
107.5°	254.4	255.4	256.2	257.2	258.0	258.9	259.5	260.1	260.7	261.2	261.6
110°	290.1	290.8	291.4	292.0	292.6	293.2	293.7	294.3	294.9	295.5	295.7



TEST NUMBER: P333709-935

CATALOG NUMBER: S125RDIW-S1090D1050U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	324.4	325.1	325.8	326.6	327.3	328.0	328.3	328.6	328.8	329.1	329.1
115°	379.1	379.7	380.0	380.5	380.8	381.3	381.1	380.8	380.6	380.5	380.3
117.5°	431.2	431.5	431.9	432.2	432.6	432.9	433.1	433.2	433.3	433.5	433.2
120°	467.1	467.7	467.9	468.1	468.3	468.5	468.5	468.5	468.5	468.5	468.1
122.5°	500.9	501.4	501.9	502.4	502.9	503.4	503.3	503.1	502.9	502.7	502.4
125°	553.4	554.1	554.3	554.5	554.7	554.8	554.5	554.1	553.7	553.3	553.0
127.5°	603.7	604.2	604.4	604.7	604.9	605.1	604.9	604.7	604.5	604.3	604.1
130°	636.4	637.1	637.5	637.8	638.3	638.6	638.4	638.3	638.0	637.8	637.6
132.5°	670.3	671.1	671.0	670.9	670.8	670.7	670.5	670.3	670.1	669.9	669.6
135°	718.3	718.9	719.2	719.4	719.5	719.7	719.7	719.7	719.7	719.7	719.4
137.5°	764.9	765.7	766.1	766.5	767.0	767.4	767.6	767.8	768.1	768.3	767.9
140°	794.3	795.0	795.7	796.3	796.8	797.4	797.8	798.1	798.6	798.9	798.7
142.5°	823.7	824.5	825.2	826.0	826.6	827.4	827.6	827.9	828.1	828.4	827.9
145°	867.6	868.3	868.9	869.5	870.1	870.6	870.6	870.6	870.6	870.6	870.4
147.5°	907.1	907.6	908.0	908.4	909.0	909.4	909.9	910.3	910.8	911.3	910.9
150°	931.9	932.1	932.9	933.7	934.4	935.2	935.2	935.2	935.2	935.2	935.0
152.5°	956.1	956.3	956.7	956.9	957.3	957.6	958.0	958.5	959.0	959.4	959.3
155°	989.3	989.4	989.6	989.8	990.0	990.2	991.0	991.8	992.6	993.3	993.2
157.5°	1018.3	1018.2	1018.4	1018.6	1018.8	1019.0	1019.8	1020.5	1021.3	1022.1	1021.8
160°	1035.9	1035.7	1035.9	1036.0	1036.2	1036.5	1037.2	1038.0	1038.8	1039.6	1039.4
162.5°	1052.5	1052.3	1052.4	1052.4	1052.5	1052.5	1053.4	1054.4	1055.2	1056.2	1056.1
165°	1074.1	1074.0	1074.3	1074.4	1074.6	1074.8	1075.6	1076.3	1077.1	1077.9	1077.7
167.5°	1090.7	1090.4	1090.4	1090.4	1090.4	1090.4	1091.5	1092.7	1093.8	1095.0	1095.0
170°	1100.5	1100.1	1100.1	1100.1	1100.1	1100.1	1101.3	1102.4	1103.6	1104.7	1104.7
172.5°	1107.5	1107.1	1107.1	1107.1	1107.1	1107.1	1108.3	1109.4	1110.6	1111.7	1111.7
175°	1115.3	1114.9	1114.9	1114.9	1114.9	1114.9	1116.1	1117.2	1118.4	1119.6	1119.5
177.5°	1120.0	1119.6	1119.4	1119.3	1119.1	1119.0	1119.9	1120.8	1121.8	1122.7	1122.6
180°	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0



TEST NUMBER: P333709-935

CATALOG NUMBER: S125RDIW-S1090D1050U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7
2.5°	1356.1	1351.0	1349.6	1351.4	1349.6	1351.0	1356.1	1356.6	1357.0	1360.7	1355.6
5°	1251.2	1245.4	1248.3	1247.1	1248.3	1245.4	1251.2	1257.0	1258.1	1263.3	1266.9
7.5°	1158.9	1151.7	1144.0	1146.4	1144.0	1151.7	1158.9	1159.0	1168.0	1174.8	1179.3
10°	1094.2	1088.5	1084.9	1087.9	1084.9	1088.5	1094.2	1101.8	1105.3	1113.4	1122.1
12.5°	1039.8	1036.4	1033.4	1032.1	1033.4	1036.4	1039.8	1047.9	1056.0	1065.6	1075.2
15°	965.9	958.9	956.0	948.4	956.0	958.9	965.9	972.8	988.5	992.6	1007.1
17.5°	897.6	895.3	887.7	884.5	887.7	895.3	897.6	903.5	910.8	925.7	936.7
20°	857.1	854.8	847.3	852.0	847.3	854.8	857.1	865.9	871.7	883.9	894.3
22.5°	823.7	818.6	816.1	814.8	816.1	818.6	823.7	827.8	835.4	846.7	858.6
25°	776.4	768.8	765.9	762.4	765.9	768.8	776.4	778.7	786.9	797.9	804.3
27.5°	729.2	725.1	721.3	720.4	721.3	725.1	729.2	732.5	739.5	749.2	760.7
30°	698.5	694.5	691.6	691.6	691.6	694.5	698.5	705.5	710.8	719.5	728.1
32.5°	671.1	668.0	665.0	664.6	665.0	668.0	671.1	674.8	681.0	690.6	699.8
35°	631.1	626.5	625.3	621.8	625.3	626.5	631.1	634.0	640.4	647.4	655.0
37.5°	589.6	585.7	585.7	585.3	585.7	585.7	589.6	594.7	600.0	606.3	615.6
40°	563.1	560.2	559.6	555.5	559.6	560.2	563.1	565.4	571.3	579.4	586.3
42.5°	534.8	533.2	531.2	529.5	531.2	533.2	534.8	539.4	544.3	550.1	559.0
45°	496.3	492.2	492.2	489.3	492.2	492.2	496.3	500.3	502.7	509.6	521.2
47.5°	456.5	453.4	453.7	450.7	453.7	453.4	456.5	457.8	461.5	468.4	474.8
50°	430.1	428.3	427.7	426.5	427.7	428.3	430.1	429.5	434.1	440.5	449.2
52.5°	403.6	402.7	404.9	402.3	404.9	402.7	403.6	404.8	408.0	412.2	420.4
55°	367.8	366.1	369.6	366.1	369.6	366.1	367.8	366.7	367.8	372.0	377.1
57.5°	326.8	325.2	328.3	326.6	328.3	325.2	326.8	327.1	330.5	331.1	335.8
60°	299.9	296.4	298.1	298.7	298.1	296.4	299.9	301.0	302.2	302.7	307.4
62.5°	267.8	265.7	267.0	264.3	267.0	265.7	267.8	270.4	272.9	275.8	278.6
65°	222.6	220.8	218.5	217.3	218.5	220.8	222.6	223.8	230.1	233.6	240.0
67.5°	187.0	182.8	182.7	183.7	182.7	182.8	187.0	186.8	191.4	194.2	198.5
70°	161.0	161.0	160.4	160.4	160.4	161.0	161.0	164.5	166.8	169.1	172.0
72.5°	142.8	142.4	141.3	140.9	141.3	142.4	142.8	144.0	145.4	147.7	150.6
75°	115.0	115.6	114.5	113.9	114.5	115.6	115.0	115.0	117.4	118.0	119.2
77.5°	85.0	82.5	83.8	82.5	83.8	82.5	85.0	87.3	88.1	90.7	90.7
80°	64.5	63.9	65.7	63.9	65.7	63.9	64.5	64.5	66.2	67.4	70.3
82.5°	51.1	50.5	51.2	49.9	51.2	50.5	51.1	50.5	51.4	53.0	52.6
85°	30.8	30.2	29.6	30.2	29.6	30.2	30.8	30.2	29.6	30.2	30.8
87.5°	14.6	14.2	14.3	14.4	14.3	14.2	14.6	13.9	14.3	14.0	13.9
90°	19.2	19.8	20.3	20.9	20.3	19.8	19.2	18.6	17.8	16.9	15.9
92.5°	39.9	40.3	40.7	41.2	40.7	40.3	39.9	39.4	38.7	37.4	36.1
95°	73.9	74.2	74.6	75.0	74.6	74.2	73.9	73.4	72.6	71.2	69.9
97.5°	113.0	113.3	113.6	113.7	113.6	113.3	113.0	112.8	112.1	110.8	109.5
100°	141.9	142.3	142.7	143.1	142.7	142.3	141.9	141.5	140.4	138.7	137.0
102.5°	170.7	171.3	171.9	172.4	171.9	171.3	170.7	170.2	169.0	167.1	165.2
105°	214.6	215.2	215.8	216.4	215.8	215.2	214.6	214.0	213.2	212.0	210.9
107.5°	261.5	261.5	261.4	261.4	261.4	261.5	261.5	261.6	261.2	260.7	260.1
110°	295.5	295.2	295.1	294.9	295.1	295.2	295.5	295.7	295.5	294.9	294.3



TEST NUMBER: P333709-935

CATALOG NUMBER: S125RDIW-S1090D1050U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	328.7	328.4	328.0	327.7	328.0	328.4	328.7	329.1	329.1	328.8	328.6
115°	380.0	379.9	379.7	379.5	379.7	379.9	380.0	380.3	380.5	380.6	380.8
117.5°	432.4	431.6	430.8	430.1	430.8	431.6	432.4	433.2	433.5	433.3	433.2
120°	467.4	466.6	465.8	465.0	465.8	466.6	467.4	468.1	468.5	468.5	468.5
122.5°	501.8	501.1	500.5	499.9	500.5	501.1	501.8	502.4	502.7	502.9	503.1
125°	552.8	552.6	552.4	552.2	552.4	552.6	552.8	553.0	553.3	553.7	554.1
127.5°	603.6	603.3	602.9	602.5	602.9	603.3	603.6	604.1	604.3	604.5	604.7
130°	637.1	636.8	636.4	636.0	636.4	636.8	637.1	637.6	637.8	638.0	638.3
132.5°	669.0	668.5	668.0	667.4	668.0	668.5	669.0	669.6	669.9	670.1	670.3
135°	718.6	717.8	717.0	716.3	717.0	717.8	718.6	719.4	719.7	719.7	719.7
137.5°	767.0	766.0	765.0	764.1	765.0	766.0	767.0	767.9	768.3	768.1	767.8
140°	797.7	796.7	795.7	794.8	795.7	796.7	797.7	798.7	798.9	798.6	798.1
142.5°	827.0	826.0	825.1	824.1	825.1	826.0	827.0	827.9	828.4	828.1	827.9
145°	869.8	869.2	868.7	868.1	868.7	869.2	869.8	870.4	870.6	870.6	870.6
147.5°	909.6	908.2	906.9	905.6	906.9	908.2	909.6	910.9	911.3	910.8	910.3
150°	934.6	934.3	933.8	933.5	933.8	934.3	934.6	935.0	935.2	935.2	935.2
152.5°	958.6	957.9	957.2	956.5	957.2	957.9	958.6	959.3	959.4	959.0	958.5
155°	992.2	991.3	990.3	989.3	990.3	991.3	992.2	993.2	993.3	992.6	991.8
157.5°	1020.5	1019.3	1018.0	1016.8	1018.0	1019.3	1020.5	1021.8	1022.1	1021.3	1020.5
160°	1038.5	1037.5	1036.6	1035.5	1036.6	1037.5	1038.5	1039.4	1039.6	1038.8	1038.0
162.5°	1055.0	1053.9	1052.7	1051.6	1052.7	1053.9	1055.0	1056.1	1056.2	1055.2	1054.4
165°	1076.6	1075.4	1074.3	1073.1	1074.3	1075.4	1076.6	1077.7	1077.9	1077.1	1076.3
167.5°	1093.8	1092.6	1091.4	1090.2	1091.4	1092.6	1093.8	1095.0	1095.0	1093.8	1092.7
170°	1103.3	1102.0	1100.6	1099.2	1100.6	1102.0	1103.3	1104.7	1104.7	1103.6	1102.4
172.5°	1110.5	1109.3	1108.1	1106.9	1108.1	1109.3	1110.5	1111.7	1111.7	1110.6	1109.4
175°	1118.2	1116.8	1115.4	1114.0	1115.4	1116.8	1118.2	1119.5	1119.6	1118.4	1117.2
177.5°	1121.5	1120.4	1119.4	1118.3	1119.4	1120.4	1121.5	1122.6	1122.7	1121.8	1120.8
180°	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0



TEST NUMBER: P333709-935

CATALOG NUMBER: S125RDIW-S1090D1050U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7
2.5°	1357.0	1362.2	1364.9	1371.5	1380.8	1385.4	1391.9	1396.5	1403.1	1411.0	1417.5
5°	1269.2	1283.1	1292.4	1306.9	1320.3	1333.7	1350.6	1362.7	1379.0	1397.6	1412.1
7.5°	1187.6	1205.1	1220.5	1239.7	1261.7	1278.9	1300.9	1323.4	1348.8	1375.2	1400.1
10°	1135.5	1153.0	1172.2	1195.9	1218.1	1241.3	1267.4	1293.6	1325.5	1355.2	1388.9
12.5°	1083.9	1103.2	1124.7	1151.3	1178.0	1207.8	1234.4	1263.9	1298.1	1336.6	1372.6
15°	1019.9	1038.5	1061.7	1084.3	1115.2	1147.7	1183.2	1222.1	1260.4	1303.5	1348.2
17.5°	951.1	971.6	997.2	1023.5	1055.9	1094.0	1128.8	1171.4	1214.5	1264.6	1317.3
20°	906.5	927.5	957.7	986.8	1016.4	1053.6	1094.8	1138.4	1184.3	1237.3	1295.9
22.5°	871.2	886.1	915.8	945.4	980.2	1018.2	1058.6	1104.1	1154.1	1208.8	1270.3
25°	818.8	836.2	857.7	888.6	924.5	964.7	1005.3	1053.6	1108.2	1164.0	1229.7
27.5°	772.2	786.5	807.8	831.9	867.9	909.5	952.7	1003.0	1059.0	1115.9	1184.9
30°	739.2	754.8	775.2	800.8	829.2	874.6	918.8	968.2	1025.1	1083.8	1154.7
32.5°	710.3	726.5	744.1	768.3	799.0	839.3	884.8	933.3	991.2	1051.7	1120.8
35°	670.0	681.1	697.3	721.2	751.4	783.9	830.4	881.6	938.0	1000.7	1069.9
37.5°	623.8	638.1	654.2	674.9	701.5	736.7	779.9	831.6	883.9	944.0	1007.1
40°	596.8	610.2	628.2	643.3	671.2	703.2	742.7	796.7	849.0	905.4	962.9
42.5°	569.4	582.3	597.5	616.3	641.4	672.4	709.2	759.5	815.5	868.7	916.9
45°	526.5	539.8	554.4	571.8	595.0	625.3	661.9	707.8	756.6	805.5	842.1
47.5°	485.4	498.0	511.8	529.6	551.0	580.2	612.9	653.5	700.9	742.4	768.6
50°	456.2	467.8	482.9	500.3	521.2	548.5	580.0	620.1	659.6	697.3	721.2
52.5°	427.4	440.4	455.5	470.6	490.6	517.9	547.0	581.4	619.1	650.0	669.6
55°	384.1	396.3	410.3	425.9	445.7	469.0	499.8	527.1	556.7	582.9	594.5
57.5°	342.4	353.1	366.2	382.5	400.3	421.9	446.3	472.6	493.5	512.0	525.1
60°	315.0	324.3	336.5	350.4	369.6	389.3	411.5	435.8	452.1	467.8	480.0
62.5°	287.1	295.9	307.6	320.2	337.1	355.4	376.6	396.3	412.2	422.8	436.8
65°	245.2	253.9	263.8	277.2	290.6	305.7	324.9	339.4	350.4	362.1	370.7
67.5°	206.3	213.5	222.9	233.4	244.7	259.2	274.1	286.1	293.7	300.7	311.2
70°	180.7	186.6	194.1	202.2	214.5	228.9	240.6	249.9	255.1	262.1	274.8
72.5°	154.7	161.4	168.5	176.7	186.6	198.7	209.0	218.3	221.6	227.2	235.4
75°	122.0	125.5	131.3	137.2	144.1	154.5	164.5	166.8	169.7	174.4	180.1
77.5°	92.3	95.4	97.7	101.6	107.2	115.5	120.8	124.2	124.9	126.7	132.4
80°	73.2	75.0	77.3	80.2	82.5	89.5	92.4	95.9	97.0	98.8	101.7
82.5°	53.7	55.4	56.8	59.2	63.0	65.8	68.7	72.2	72.4	73.7	74.3
85°	31.3	31.9	30.8	31.9	32.5	33.7	36.6	39.5	38.9	38.3	40.1
87.5°	14.1	13.9	13.2	14.4	13.2	13.3	13.0	13.2	13.8	14.5	15.1
90°	14.9	13.9	12.6	11.3	9.9	8.5	7.1	5.5	4.0	2.4	0.9
92.5°	34.8	33.5	31.9	30.1	28.5	26.9	25.5	24.4	23.2	22.2	21.1
95°	68.5	67.2	65.3	63.3	61.4	59.4	58.3	57.9	57.5	57.1	56.7
97.5°	108.2	106.9	104.3	101.6	98.9	96.3	94.9	94.7	94.5	94.4	94.2
100°	135.3	133.5	131.0	128.5	125.9	123.4	122.2	122.2	122.2	122.2	122.2
102.5°	163.3	161.4	160.1	158.9	157.6	156.3	155.2	154.5	153.7	152.9	152.1
105°	209.7	208.5	207.3	206.2	205.0	203.9	202.8	201.8	200.9	199.8	198.9
107.5°	259.5	258.9	258.0	257.2	256.2	255.4	254.4	253.5	252.5	251.5	250.6
110°	293.7	293.2	292.6	292.0	291.4	290.8	290.1	289.0	288.1	287.1	286.1



TEST NUMBER: P333709-935

CATALOG NUMBER: S125RDIW-S1090D1050U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	328.3	328.0	327.3	326.6	325.8	325.1	324.4	324.0	323.5	323.0	322.4
115°	381.1	381.3	380.8	380.5	380.0	379.7	379.1	378.3	377.5	376.8	376.0
117.5°	433.1	432.9	432.6	432.2	431.9	431.5	431.2	430.8	430.4	430.1	429.7
120°	468.5	468.5	468.3	468.1	467.9	467.7	467.1	466.1	465.2	464.3	463.2
122.5°	503.3	503.4	502.9	502.4	501.9	501.4	500.9	500.6	500.2	499.9	499.6
125°	554.5	554.8	554.7	554.5	554.3	554.1	553.4	552.2	551.0	549.9	548.7
127.5°	604.9	605.1	604.9	604.7	604.4	604.2	603.7	603.0	602.4	601.8	601.1
130°	638.4	638.6	638.3	637.8	637.5	637.1	636.4	635.4	634.5	633.4	632.5
132.5°	670.5	670.7	670.8	670.9	671.0	671.1	670.3	668.7	667.1	665.5	663.9
135°	719.7	719.7	719.5	719.4	719.2	718.9	718.3	717.1	715.9	714.8	713.6
137.5°	767.6	767.4	767.0	766.5	766.1	765.7	764.9	763.8	762.7	761.6	760.4
140°	797.8	797.4	796.8	796.3	795.7	795.0	794.3	793.3	792.4	791.3	790.4
142.5°	827.6	827.4	826.6	826.0	825.2	824.5	823.7	822.9	822.1	821.2	820.4
145°	870.6	870.6	870.1	869.5	868.9	868.3	867.6	866.9	866.1	865.3	864.5
147.5°	909.9	909.4	909.0	908.4	908.0	907.6	907.1	906.6	906.3	905.9	905.4
150°	935.2	935.2	934.4	933.7	932.9	932.1	931.9	932.0	932.2	932.5	932.6
152.5°	958.0	957.6	957.3	956.9	956.7	956.3	956.1	955.8	955.5	955.2	954.9
155°	991.0	990.2	990.0	989.8	989.6	989.4	989.3	989.3	989.3	989.3	989.3
157.5°	1019.8	1019.0	1018.8	1018.6	1018.4	1018.2	1018.3	1018.7	1019.2	1019.6	1020.0
160°	1037.2	1036.5	1036.2	1036.0	1035.9	1035.7	1035.9	1036.5	1037.0	1037.6	1038.2
162.5°	1053.4	1052.5	1052.5	1052.4	1052.4	1052.3	1052.5	1052.9	1053.3	1053.8	1054.2
165°	1075.6	1074.8	1074.6	1074.4	1074.3	1074.0	1074.1	1074.5	1074.9	1075.3	1075.7
167.5°	1091.5	1090.4	1090.4	1090.4	1090.4	1090.4	1090.7	1091.5	1092.3	1093.0	1093.8
170°	1101.3	1100.1	1100.1	1100.1	1100.1	1100.1	1100.5	1101.3	1102.1	1102.9	1103.6
172.5°	1108.3	1107.1	1107.1	1107.1	1107.1	1107.1	1107.5	1108.3	1109.1	1109.8	1110.6
175°	1116.1	1114.9	1114.9	1114.9	1114.9	1114.9	1115.3	1116.1	1116.9	1117.7	1118.4
177.5°	1119.9	1119.0	1119.1	1119.3	1119.4	1119.6	1120.0	1120.6	1121.2	1121.8	1122.5
180°	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0



TEST NUMBER: P333709-935

CATALOG NUMBER: S125RDIW-S1090D1050U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7
2.5°	1422.6	1426.8	1432.8	1439.8	1445.4	1451.4	1454.7	1454.7	1457.5	1463.5	1471.4
5°	1426.7	1441.7	1456.3	1474.9	1489.4	1506.2	1519.1	1531.3	1542.3	1556.3	1570.8
7.5°	1425.5	1450.6	1476.8	1506.1	1538.3	1564.0	1590.4	1611.1	1631.6	1658.3	1679.3
10°	1420.8	1453.4	1488.8	1526.0	1566.7	1602.1	1634.1	1663.2	1691.1	1720.1	1746.3
12.5°	1412.5	1453.9	1497.2	1541.9	1593.2	1633.7	1675.1	1706.0	1738.5	1770.3	1802.5
15°	1399.9	1448.7	1501.1	1563.2	1626.0	1671.3	1712.0	1752.1	1782.3	1818.3	1849.2
17.5°	1374.0	1436.9	1502.7	1570.6	1631.0	1683.6	1726.3	1764.4	1796.6	1836.3	1878.1
20°	1358.7	1426.7	1495.2	1567.9	1625.4	1679.5	1720.7	1760.2	1800.4	1852.0	1903.2
22.5°	1337.3	1409.9	1482.6	1551.6	1612.4	1664.6	1707.2	1755.6	1808.2	1866.9	1928.7
25°	1303.5	1378.5	1450.5	1516.1	1575.5	1628.9	1687.0	1752.1	1816.0	1893.3	1982.2
27.5°	1260.6	1332.8	1397.1	1466.5	1525.4	1593.5	1665.9	1736.6	1828.7	1935.0	2046.0
30°	1228.5	1297.1	1358.1	1423.7	1490.6	1565.6	1646.9	1730.0	1839.9	1964.8	2096.7
32.5°	1191.3	1253.4	1313.9	1377.3	1454.3	1536.7	1623.2	1724.9	1856.1	1998.3	2134.8
35°	1126.8	1182.6	1241.3	1311.6	1393.5	1483.1	1593.5	1717.3	1875.9	2028.7	2151.3
37.5°	1059.1	1103.2	1162.1	1236.3	1325.5	1429.1	1554.4	1704.8	1867.8	2004.8	2057.1
40°	1007.1	1048.4	1110.5	1188.4	1276.7	1390.1	1530.7	1685.2	1849.2	1944.5	1940.3
42.5°	955.5	997.2	1057.0	1135.4	1227.4	1354.3	1499.1	1659.7	1798.0	1834.3	1758.6
45°	876.3	915.2	974.0	1053.0	1151.8	1284.9	1437.1	1591.1	1679.5	1620.7	1470.8
47.5°	795.7	833.4	887.9	965.4	1073.2	1212.5	1356.4	1482.8	1495.2	1369.2	1189.3
50°	742.7	778.1	829.8	912.4	1016.9	1153.0	1291.8	1391.2	1360.4	1206.4	1021.1
52.5°	691.0	725.1	773.6	851.4	958.4	1091.6	1215.6	1293.6	1222.4	1058.6	891.8
55°	614.8	647.4	696.2	767.7	864.7	986.8	1095.5	1123.9	1019.3	854.3	719.5
57.5°	542.4	566.3	614.5	677.7	771.3	878.9	956.7	951.7	836.2	687.6	590.9
60°	494.6	516.0	562.0	620.1	708.9	805.5	860.1	836.8	720.1	597.4	504.4
62.5°	449.9	470.0	508.5	562.0	638.3	722.2	762.0	729.9	619.6	511.9	437.9
65°	382.4	396.9	427.7	477.1	536.9	595.0	630.5	583.4	485.9	404.5	348.7
67.5°	319.3	331.8	359.2	394.7	435.9	476.0	490.5	446.3	370.4	315.6	276.3
70°	278.4	290.0	308.6	341.7	369.0	397.5	404.5	365.0	301.6	259.8	235.4
72.5°	239.3	250.0	266.3	289.6	308.6	324.9	328.2	291.5	243.1	214.2	195.4
75°	182.4	191.7	202.2	210.9	223.2	226.1	224.9	196.4	170.3	151.1	140.6
77.5°	134.1	137.9	144.4	147.8	148.4	148.2	142.2	124.2	110.7	102.9	98.6
80°	103.4	106.3	108.1	109.3	109.9	104.0	97.6	86.6	82.0	77.3	72.1
82.5°	75.1	77.1	78.8	79.0	75.9	71.0	65.1	59.6	56.4	54.1	52.1
85°	40.6	41.2	40.6	37.8	33.7	31.9	30.8	29.6	29.0	28.5	28.5
87.5°	14.9	13.8	11.8	12.6	12.8	12.7	12.9	12.7	12.6	12.7	12.9
90°	2.4	4.0	5.5	7.1	8.5	9.9	11.3	12.6	13.9	14.9	15.9
92.5°	22.2	23.2	24.4	25.5	26.9	28.5	30.1	31.9	33.5	34.8	36.1
95°	57.1	57.5	57.9	58.3	59.4	61.4	63.3	65.3	67.2	68.5	69.9
97.5°	94.4	94.5	94.7	94.9	96.3	98.9	101.6	104.3	106.9	108.2	109.5
100°	122.2	122.2	122.2	122.2	123.4	125.9	128.5	131.0	133.5	135.3	137.0
102.5°	152.9	153.7	154.5	155.2	156.3	157.6	158.9	160.1	161.4	163.3	165.2
105°	199.8	200.9	201.8	202.8	203.9	205.0	206.2	207.3	208.5	209.7	210.9
107.5°	251.5	252.5	253.5	254.4	255.4	256.2	257.2	258.0	258.9	259.5	260.1
110°	287.1	288.1	289.0	290.1	290.8	291.4	292.0	292.6	293.2	293.7	294.3



TEST NUMBER: P333709-935

CATALOG NUMBER: S125RDIW-S1090D1050U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	323.0	323.5	324.0	324.4	325.1	325.8	326.6	327.3	328.0	328.3	328.6
115°	376.8	377.5	378.3	379.1	379.7	380.0	380.5	380.8	381.3	381.1	380.8
117.5°	430.1	430.4	430.8	431.2	431.5	431.9	432.2	432.6	432.9	433.1	433.2
120°	464.3	465.2	466.1	467.1	467.7	467.9	468.1	468.3	468.5	468.5	468.5
122.5°	499.9	500.2	500.6	500.9	501.4	501.9	502.4	502.9	503.4	503.3	503.1
125°	549.9	551.0	552.2	553.4	554.1	554.3	554.5	554.7	554.8	554.5	554.1
127.5°	601.8	602.4	603.0	603.7	604.2	604.4	604.7	604.9	605.1	604.9	604.7
130°	633.4	634.5	635.4	636.4	637.1	637.5	637.8	638.3	638.6	638.4	638.3
132.5°	665.5	667.1	668.7	670.3	671.1	671.0	670.9	670.8	670.7	670.5	670.3
135°	714.8	715.9	717.1	718.3	718.9	719.2	719.4	719.5	719.7	719.7	719.7
137.5°	761.6	762.7	763.8	764.9	765.7	766.1	766.5	767.0	767.4	767.6	767.8
140°	791.3	792.4	793.3	794.3	795.0	795.7	796.3	796.8	797.4	797.8	798.1
142.5°	821.2	822.1	822.9	823.7	824.5	825.2	826.0	826.6	827.4	827.6	827.9
145°	865.3	866.1	866.9	867.6	868.3	868.9	869.5	870.1	870.6	870.6	870.6
147.5°	905.9	906.3	906.6	907.1	907.6	908.0	908.4	909.0	909.4	909.9	910.3
150°	932.5	932.2	932.0	931.9	932.1	932.9	933.7	934.4	935.2	935.2	935.2
152.5°	955.2	955.5	955.8	956.1	956.3	956.7	956.9	957.3	957.6	958.0	958.5
155°	989.3	989.3	989.3	989.3	989.4	989.6	989.8	990.0	990.2	991.0	991.8
157.5°	1019.6	1019.2	1018.7	1018.3	1018.2	1018.4	1018.6	1018.8	1019.0	1019.8	1020.5
160°	1037.6	1037.0	1036.5	1035.9	1035.7	1035.9	1036.0	1036.2	1036.5	1037.2	1038.0
162.5°	1053.8	1053.3	1052.9	1052.5	1052.3	1052.4	1052.4	1052.5	1052.5	1053.4	1054.4
165°	1075.3	1074.9	1074.5	1074.1	1074.0	1074.3	1074.4	1074.6	1074.8	1075.6	1076.3
167.5°	1093.0	1092.3	1091.5	1090.7	1090.4	1090.4	1090.4	1090.4	1090.4	1091.5	1092.7
170°	1102.9	1102.1	1101.3	1100.5	1100.1	1100.1	1100.1	1100.1	1100.1	1101.3	1102.4
172.5°	1109.8	1109.1	1108.3	1107.5	1107.1	1107.1	1107.1	1107.1	1107.1	1108.3	1109.4
175°	1117.7	1116.9	1116.1	1115.3	1114.9	1114.9	1114.9	1114.9	1114.9	1116.1	1117.2
177.5°	1121.8	1121.2	1120.6	1120.0	1119.6	1119.4	1119.3	1119.1	1119.0	1119.9	1120.8
180°	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0



TEST NUMBER: P333709-935

CATALOG NUMBER: S125RDIW-S1090D1050U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7
2.5°	1477.5	1477.5	1485.4	1484.9	1490.0	1488.2	1489.1
5°	1588.2	1598.1	1606.8	1612.7	1621.3	1623.7	1622.5
7.5°	1703.1	1725.0	1735.7	1750.3	1753.0	1760.7	1759.9
10°	1774.2	1795.7	1812.0	1824.7	1831.1	1839.3	1839.9
12.5°	1830.0	1848.2	1862.6	1874.5	1882.2	1884.8	1886.4
15°	1873.5	1893.9	1910.7	1927.6	1937.5	1945.0	1949.1
17.5°	1917.4	1948.9	1978.6	2001.5	2015.3	2026.9	2026.7
20°	1951.5	1987.4	2024.6	2050.8	2077.5	2089.1	2090.9
22.5°	1987.7	2042.8	2090.7	2131.2	2166.3	2178.4	2183.0
25°	2063.0	2135.0	2208.9	2265.8	2306.4	2330.3	2333.8
27.5°	2154.0	2251.5	2329.2	2381.7	2415.5	2433.2	2437.0
30°	2218.2	2308.3	2378.0	2417.5	2433.2	2435.5	2426.8
32.5°	2247.0	2314.3	2342.2	2339.9	2309.0	2288.6	2280.8
35°	2211.7	2197.8	2129.9	2048.5	1986.3	1946.8	1936.3
37.5°	2012.8	1892.5	1767.5	1644.5	1579.1	1545.8	1488.6
40°	1816.6	1645.2	1515.0	1411.5	1337.7	1278.5	1264.6
42.5°	1595.3	1418.3	1288.1	1199.5	1140.7	1099.9	1082.3
45°	1281.9	1129.7	1022.2	954.2	908.9	879.3	865.9
47.5°	1025.4	907.5	829.1	778.9	744.3	718.5	711.3
50°	884.5	790.3	724.1	681.7	655.5	635.8	627.6
52.5°	768.3	692.2	641.4	606.3	581.6	569.3	562.5
55°	634.0	568.3	531.8	503.9	489.9	480.0	475.4
57.5°	518.5	471.1	444.4	425.1	412.2	405.9	403.6
60°	453.8	416.6	392.3	377.1	368.4	360.3	358.0
62.5°	396.7	367.4	348.5	335.3	326.6	323.1	321.7
65°	319.6	300.4	286.5	278.4	271.4	270.2	269.7
67.5°	254.1	242.8	235.5	227.0	224.5	220.5	219.6
70°	217.3	209.8	201.0	198.2	195.3	191.2	191.7
72.5°	184.3	176.8	170.8	167.0	166.0	164.2	165.7
75°	134.8	132.5	130.2	127.3	126.1	126.1	125.5
77.5°	96.3	94.3	91.7	90.0	89.6	87.1	88.1
80°	69.7	66.8	65.7	66.2	64.5	63.9	63.9
82.5°	51.6	50.5	49.4	49.5	49.2	48.6	49.1
85°	28.5	27.9	27.9	27.3	27.3	26.7	26.7
87.5°	13.6	14.3	13.5	13.2	13.3	13.9	14.4
90°	16.9	17.8	18.6	19.2	19.8	20.3	20.9
92.5°	37.4	38.7	39.4	39.9	40.3	40.7	41.2
95°	71.2	72.6	73.4	73.9	74.2	74.6	75.0
97.5°	110.8	112.1	112.8	113.0	113.3	113.6	113.7
100°	138.7	140.4	141.5	141.9	142.3	142.7	143.1
102.5°	167.1	169.0	170.2	170.7	171.3	171.9	172.4
105°	212.0	213.2	214.0	214.6	215.2	215.8	216.4
107.5°	260.7	261.2	261.6	261.5	261.5	261.4	261.4
110°	294.9	295.5	295.7	295.5	295.2	295.1	294.9



TEST NUMBER: P333709-935

CATALOG NUMBER: S125RDIW-S1090D1050U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	328.8	329.1	329.1	328.7	328.4	328.0	327.7
115°	380.6	380.5	380.3	380.0	379.9	379.7	379.5
117.5°	433.3	433.5	433.2	432.4	431.6	430.8	430.1
120°	468.5	468.5	468.1	467.4	466.6	465.8	465.0
122.5°	502.9	502.7	502.4	501.8	501.1	500.5	499.9
125°	553.7	553.3	553.0	552.8	552.6	552.4	552.2
127.5°	604.5	604.3	604.1	603.6	603.3	602.9	602.5
130°	638.0	637.8	637.6	637.1	636.8	636.4	636.0
132.5°	670.1	669.9	669.6	669.0	668.5	668.0	667.4
135°	719.7	719.7	719.4	718.6	717.8	717.0	716.3
137.5°	768.1	768.3	767.9	767.0	766.0	765.0	764.1
140°	798.6	798.9	798.7	797.7	796.7	795.7	794.8
142.5°	828.1	828.4	827.9	827.0	826.0	825.1	824.1
145°	870.6	870.6	870.4	869.8	869.2	868.7	868.1
147.5°	910.8	911.3	910.9	909.6	908.2	906.9	905.6
150°	935.2	935.2	935.0	934.6	934.3	933.8	933.5
152.5°	959.0	959.4	959.3	958.6	957.9	957.2	956.5
155°	992.6	993.3	993.2	992.2	991.3	990.3	989.3
157.5°	1021.3	1022.1	1021.8	1020.5	1019.3	1018.0	1016.8
160°	1038.8	1039.6	1039.4	1038.5	1037.5	1036.6	1035.5
162.5°	1055.2	1056.2	1056.1	1055.0	1053.9	1052.7	1051.6
165°	1077.1	1077.9	1077.7	1076.6	1075.4	1074.3	1073.1
167.5°	1093.8	1095.0	1095.0	1093.8	1092.6	1091.4	1090.2
170°	1103.6	1104.7	1104.7	1103.3	1102.0	1100.6	1099.2
172.5°	1110.6	1111.7	1111.7	1110.5	1109.3	1108.1	1106.9
175°	1118.4	1119.6	1119.5	1118.2	1116.8	1115.4	1114.0
177.5°	1121.8	1122.7	1122.6	1121.5	1120.4	1119.4	1118.3
180°	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0

(END OF REPORT)