

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: P332459-927

Luminaire Tested: **S123RDIW-S1000D1030U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332459-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S1000D1030U927-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1030 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5969.3 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

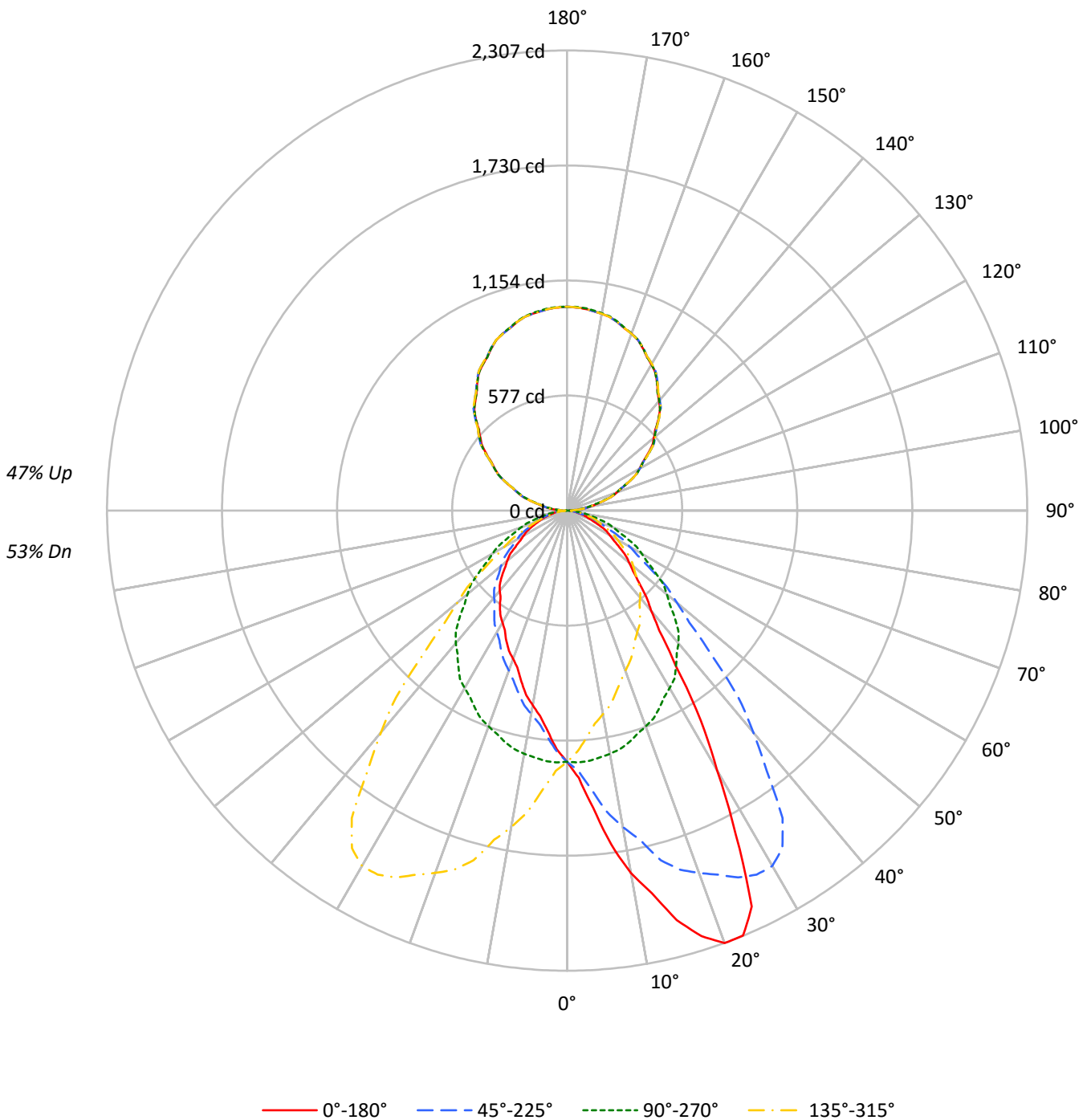
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332459-927

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	85	85	85	71	71	71	58	58	58	53
1	99	95	91	88	92	88	85	82	75	73	71	63	62	60	53	52	51	46
2	91	84	78	73	84	78	73	68	67	63	60	56	54	51	47	45	44	39
3	83	74	67	61	77	69	63	58	59	55	51	50	47	44	42	40	38	34
4	76	66	58	52	70	61	55	50	53	48	44	45	42	38	38	35	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	40	60	50	43	38	43	38	34	37	33	30	32	28	26	23
7	60	48	40	35	56	45	38	33	39	34	30	34	30	27	29	26	23	21
8	56	44	36	31	52	41	34	30	36	31	27	31	27	24	27	23	21	19
9	52	40	33	28	48	38	31	27	33	28	24	29	25	22	25	21	19	17
10	49	37	30	25	45	35	28	24	31	25	22	27	23	20	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13555	13555	13555	13555
5°	16159	13613	11988	13613
10°	20176	13535	10831	13535
15°	23682	13397	9877	13397
20°	26431	13190	9065	13190
25°	26008	12973	8568	12973
30°	18695	12771	8054	12771
35°	12482	12510	7721	12510
40°	9197	12197	7378	12197
45°	7715	11645	7042	11645
50°	6807	10923	6571	10923
55°	5970	10098	5928	10098
60°	5315	9309	5431	9309
65°	4669	8458	5053	8458
70°	3666	7704	4614	7704
75°	3227	6729	4213	6729
80°	2808	5715	4147	5715
85°	2260	4594	4397	4594



TEST NUMBER: P332459-927

CATALOG NUMBER: S123RDIW-S1000D1030U927-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	2.1
10°-20°	386.9	6.5
20°-30°	607.8	10.2
30°-40°	634.2	10.6
40°-50°	542.7	9.1
50°-60°	413.6	6.9
60°-70°	265.1	4.4
70°-80°	127.5	2.1
80°-90°	36.8	0.6
90°-100°	66.6	1.1
100°-110°	199.2	3.3
110°-120°	338.8	5.7
120°-130°	445.7	7.5
130°-140°	500.9	8.4
140°-150°	492.4	8.2
150°-160°	414.5	6.9
160°-170°	275.9	4.6
170°-180°	96.6	1.6
0°-30°	1118.6	18.7
0°-40°	1752.8	29.4
0°-60°	2709.1	45.4
0°-90°	3138.6	52.6
90°-120°	604.6	10.1
90°-150°	2043.6	34.2
90°-180°	2831.0	47.4
0°-180°	5969.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1259	1259	1259	1259	1259	
5°	1496	1260	1110	1260	1496	154
15°	2125	1202	886	1202	2125	603
25°	2190	1092	721	1092	2190	941
35°	950	952	588	952	950	623
45°	507	765	463	765	507	398
55°	318	538	316	538	318	288
65°	183	332	198	332	183	180
75°	78	162	101	162	78	83
85°	18	37	36	37	18	22
90°	24	1	24	1	24	12
95°	63	47	63	47	63	64
105°	191	181	191	181	191	203
115°	342	341	342	341	342	339
125°	494	499	494	499	494	441
135°	647	648	647	648	647	497
145°	786	786	786	786	786	490
155°	898	900	898	900	898	414
165°	977	980	977	980	977	275
175°	1015	1019	1015	1019	1015	96
180°	1022	1022	1022	1022	1022	



TEST NUMBER: P332459-927

CATALOG NUMBER: S123RDIW-S1000D1030U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1341.3	1343.0	1337.4	1336.6	1330.1	1328.3	1328.3	1319.3	1313.7	1306.4	1302.0
5°	1495.5	1504.1	1499.8	1490.1	1473.9	1470.1	1459.9	1443.8	1425.4	1402.7	1391.9
7.5°	1688.1	1699.8	1695.3	1680.3	1663.3	1649.6	1620.8	1593.9	1556.3	1523.3	1495.1
10°	1845.9	1833.5	1823.8	1809.3	1793.6	1768.2	1738.0	1696.5	1648.6	1610.8	1568.8
12.5°	1964.1	1962.0	1949.7	1934.7	1912.6	1888.6	1851.5	1800.9	1745.2	1690.7	1642.5
15°	2125.2	2128.4	2120.3	2104.7	2073.4	2030.8	1974.8	1953.8	1873.9	1814.7	1755.3
17.5°	2236.6	2236.0	2234.9	2213.3	2181.4	2151.0	2099.0	2043.8	1971.5	1887.9	1808.1
20°	2307.4	2302.0	2303.0	2278.8	2255.1	2220.0	2169.4	2089.1	2029.7	1933.2	1850.8
22.5°	2305.6	2304.5	2308.7	2300.3	2283.1	2256.3	2216.4	2148.6	2072.8	1975.5	1882.7
25°	2189.8	2185.6	2210.9	2217.9	2245.4	2250.2	2238.4	2201.2	2129.5	2029.2	1914.4
27.5°	1832.7	1830.3	1877.4	1936.3	2010.9	2068.9	2124.9	2152.0	2129.5	2057.7	1942.6
30°	1504.1	1554.8	1578.5	1663.7	1758.6	1871.8	1970.9	2065.3	2088.5	2057.2	1962.9
32.5°	1248.8	1293.0	1312.8	1385.9	1474.3	1606.9	1755.8	1889.4	1983.7	2007.6	1950.8
35°	949.9	950.5	995.7	1028.1	1110.0	1246.4	1390.9	1569.9	1747.8	1882.5	1896.6
37.5°	758.0	760.7	788.1	820.3	881.8	953.9	1081.1	1229.9	1435.4	1642.4	1763.6
40°	654.5	659.3	679.9	711.6	755.8	810.2	909.5	1049.6	1221.1	1451.3	1639.4
42.5°	588.0	596.0	606.5	631.0	658.4	709.3	789.6	897.9	1053.8	1271.5	1488.5
45°	506.8	511.0	519.2	530.4	555.2	590.9	644.8	717.6	846.9	1022.2	1239.4
47.5°	447.0	444.7	453.3	462.5	479.0	503.2	539.3	598.7	691.0	831.6	1015.9
50°	406.5	405.9	411.9	418.9	434.5	452.3	482.0	526.7	600.0	716.4	885.2
52.5°	368.5	370.6	374.8	383.5	394.8	409.2	435.8	468.0	531.0	631.5	772.2
55°	318.1	319.7	325.6	330.5	338.6	353.1	369.8	396.8	439.9	510.0	625.9
57.5°	275.4	274.6	280.4	281.5	290.7	302.5	315.4	336.4	367.7	419.8	497.8
60°	246.9	245.3	250.2	253.9	258.8	268.5	279.2	299.8	324.6	362.8	429.7
62.5°	221.0	220.3	223.9	227.6	231.6	240.4	249.5	265.2	284.9	317.1	370.2
65°	183.3	184.9	186.6	188.1	190.3	195.7	204.3	215.1	228.5	251.2	289.5
67.5°	144.0	145.7	146.2	149.6	154.2	157.6	162.8	172.4	181.8	200.9	222.7
70°	116.5	115.9	116.5	118.0	124.0	129.9	137.0	143.9	149.9	163.3	181.6
72.5°	100.1	99.1	100.5	100.8	103.7	105.4	109.8	116.4	124.0	133.2	146.3
75°	77.6	77.6	77.6	77.6	79.8	80.9	82.5	84.1	86.8	91.1	100.8
77.5°	57.4	57.4	58.2	58.8	59.2	59.8	60.8	62.4	63.4	65.7	69.9
80°	45.3	45.8	45.3	45.8	45.8	46.9	47.5	49.0	49.6	52.3	53.9
82.5°	34.1	33.7	34.1	34.6	34.6	35.7	35.8	37.0	37.1	38.5	40.1
85°	18.3	17.3	18.3	17.8	18.9	17.8	18.3	19.4	19.4	20.0	22.1
87.5°	9.1	9.9	9.0	9.3	9.3	9.6	9.4	9.3	10.1	9.4	9.4
90°	24.1	23.7	23.4	23.0	22.7	22.1	21.4	20.7	20.0	19.3	17.0
92.5°	32.4	32.6	32.9	33.0	33.3	33.1	32.6	31.9	31.4	30.8	29.5
95°	62.6	62.6	62.6	62.6	62.6	62.3	61.6	60.8	60.1	59.4	58.0
97.5°	96.3	96.4	96.5	96.5	96.6	96.3	95.4	94.6	93.8	92.9	91.9
100°	122.0	121.6	121.3	120.9	120.6	120.1	119.6	119.1	118.5	118.0	117.1
102.5°	148.3	148.4	148.5	148.5	148.6	148.4	147.8	147.3	146.8	146.2	145.0
105°	191.0	190.7	190.3	190.0	189.6	189.4	189.4	189.4	189.4	189.4	187.8
107.5°	235.4	235.7	235.9	236.1	236.3	236.1	235.6	235.0	234.4	233.9	233.2
110°	265.6	266.0	266.3	266.7	267.0	266.9	266.2	265.5	264.7	264.0	263.7



TEST NUMBER: P332459-927

CATALOG NUMBER: S123RDIW-S1000D1030U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	297.8	297.9	297.9	297.9	298.0	297.6	296.8	296.0	295.1	294.2	294.1
115°	341.9	342.1	342.2	342.5	342.6	342.6	342.5	342.2	342.1	341.9	342.2
117.5°	386.7	387.1	387.7	388.2	388.6	389.0	389.0	389.0	389.0	389.1	389.5
120°	418.1	418.5	418.8	419.2	419.5	419.9	420.0	420.2	420.3	420.6	421.4
122.5°	448.3	448.9	449.3	449.8	450.3	450.8	451.2	451.7	452.2	452.7	453.1
125°	493.6	494.3	495.0	495.7	496.5	497.2	497.9	498.6	499.3	500.0	500.3
127.5°	538.7	539.5	540.3	541.1	541.9	542.9	543.9	544.9	545.9	546.8	547.2
130°	568.2	569.5	570.7	572.0	573.2	574.2	574.9	575.6	576.3	577.0	577.6
132.5°	599.0	600.0	600.9	601.9	602.9	603.8	604.7	605.5	606.3	607.2	607.6
135°	646.9	647.2	647.6	647.9	648.3	648.8	649.5	650.2	650.9	651.6	651.9
137.5°	689.1	689.8	690.5	691.1	691.8	692.5	693.2	694.0	694.7	695.5	695.1
140°	716.7	718.0	719.2	720.4	721.7	722.4	722.5	722.8	722.9	723.1	722.9
142.5°	745.0	745.9	746.9	747.8	748.8	749.4	749.6	749.7	749.9	750.1	749.8
145°	785.7	786.4	787.1	787.8	788.5	789.0	789.2	789.4	789.6	789.7	789.2
147.5°	822.0	823.1	824.1	825.2	826.2	826.8	826.8	826.8	826.8	826.8	826.3
150°	845.1	846.2	847.2	848.3	849.4	849.9	849.9	849.9	849.9	849.9	849.5
152.5°	867.6	868.5	869.4	870.4	871.3	871.6	871.3	871.0	870.8	870.4	870.3
155°	898.1	899.4	900.6	901.8	903.1	903.3	902.6	901.9	901.2	900.5	900.3
157.5°	925.8	926.9	927.9	928.8	929.9	929.9	929.2	928.4	927.7	926.9	926.9
160°	943.8	944.5	945.2	945.9	946.7	946.6	945.7	944.8	943.9	943.0	943.0
162.5°	957.3	958.5	959.6	960.8	961.9	962.0	961.1	960.2	959.3	958.5	958.3
165°	976.8	977.9	979.2	980.5	981.8	981.8	980.7	979.7	978.6	977.6	977.6
167.5°	993.2	994.3	995.5	996.6	997.7	997.7	996.6	995.5	994.3	993.2	993.2
170°	1001.6	1002.8	1004.1	1005.4	1006.6	1006.6	1005.4	1004.1	1002.8	1001.6	1001.6
172.5°	1008.1	1009.2	1010.5	1011.8	1013.0	1013.1	1012.0	1010.9	1009.8	1008.7	1008.7
175°	1015.3	1016.5	1017.7	1019.0	1020.3	1020.3	1019.3	1018.2	1017.2	1016.1	1016.1
177.5°	1019.1	1020.1	1021.1	1022.1	1023.1	1023.2	1022.3	1021.4	1020.6	1019.8	1019.8
180°	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7



TEST NUMBER: P332459-927

CATALOG NUMBER: S123RDIW-S1000D1030U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1300.3	1299.0	1293.0	1286.1	1277.0	1271.0	1266.2	1263.7	1255.9	1246.4	1239.9
5°	1380.6	1364.5	1347.3	1326.2	1306.8	1286.8	1274.5	1259.9	1242.1	1222.2	1208.2
7.5°	1466.7	1435.0	1400.8	1365.6	1330.7	1299.5	1271.8	1248.2	1219.9	1191.3	1171.2
10°	1532.7	1486.3	1438.4	1389.3	1344.5	1302.5	1270.1	1238.3	1204.4	1171.5	1146.7
12.5°	1592.6	1531.6	1476.3	1416.0	1358.8	1308.5	1261.9	1224.6	1183.7	1148.6	1120.4
15°	1668.5	1606.0	1539.1	1447.5	1371.5	1307.9	1251.3	1202.2	1152.6	1109.5	1082.0
17.5°	1739.5	1645.4	1555.5	1479.1	1380.3	1300.8	1231.8	1173.1	1118.6	1072.9	1039.1
20°	1768.8	1677.7	1580.1	1482.6	1385.5	1296.6	1216.2	1151.5	1095.0	1043.1	1011.9
22.5°	1786.5	1683.3	1580.6	1475.7	1372.5	1280.2	1200.7	1129.6	1068.2	1019.0	980.4
25°	1807.0	1684.2	1571.0	1467.4	1362.3	1262.0	1167.7	1092.3	1026.0	973.6	932.6
27.5°	1820.7	1676.1	1542.3	1427.2	1320.6	1220.8	1134.2	1054.2	987.0	931.7	887.7
30°	1823.3	1669.6	1520.3	1395.7	1287.4	1195.7	1104.1	1027.5	956.4	897.6	856.7
32.5°	1826.7	1653.7	1490.5	1358.2	1247.3	1156.5	1073.5	1000.4	927.5	869.6	827.8
35°	1812.5	1644.8	1445.3	1293.3	1182.3	1094.4	1019.5	952.0	880.4	824.3	781.7
37.5°	1751.2	1609.8	1398.5	1220.2	1104.1	1022.7	961.6	902.9	837.1	776.7	736.5
40°	1689.6	1575.3	1362.3	1175.8	1054.5	970.9	915.9	868.0	804.4	747.7	704.6
42.5°	1597.7	1528.3	1327.9	1129.2	998.4	917.9	871.5	826.6	770.7	713.2	672.7
45°	1429.2	1438.4	1257.2	1055.0	920.8	840.0	796.2	765.0	715.4	668.0	626.5
47.5°	1217.8	1303.5	1174.3	976.0	838.9	763.0	724.8	697.6	664.2	617.6	579.7
50°	1079.8	1202.2	1107.9	923.0	787.7	712.2	674.4	652.3	623.2	586.5	550.4
52.5°	952.6	1084.0	1027.6	863.9	732.0	663.0	626.1	607.9	584.8	550.3	517.6
55°	776.8	910.0	897.1	774.7	648.6	586.5	558.5	538.1	522.4	496.5	470.6
57.5°	628.4	754.6	761.3	675.5	575.0	513.7	489.6	474.2	464.0	444.4	420.5
60°	534.8	650.7	673.4	608.6	522.4	468.5	444.7	432.4	424.3	408.6	390.3
62.5°	457.2	555.8	581.5	534.9	471.9	421.4	402.9	390.9	385.5	372.0	355.8
65°	349.9	431.8	456.6	430.7	397.8	357.4	342.3	332.1	327.3	319.7	307.8
67.5°	263.1	322.8	350.0	331.8	319.9	294.4	284.8	279.2	275.0	269.7	259.8
70°	211.4	255.6	283.6	278.7	269.0	255.6	248.5	244.8	240.4	236.1	227.5
72.5°	169.9	200.3	226.6	229.1	221.2	218.5	212.3	210.7	208.1	203.0	198.2
75°	112.6	133.7	152.0	159.1	162.2	164.9	162.2	161.8	161.2	156.9	154.2
77.5°	73.8	85.2	96.7	108.7	113.8	117.4	118.3	120.3	118.8	116.5	115.3
80°	56.6	59.3	67.4	77.6	85.7	89.0	91.1	92.2	91.7	91.1	89.0
82.5°	41.1	43.3	47.1	54.3	61.2	66.5	67.8	67.6	68.8	69.1	67.4
85°	22.1	22.7	23.7	24.8	28.6	34.5	36.1	37.2	38.3	38.3	35.0
87.5°	9.8	9.0	9.3	9.0	9.8	9.9	12.2	13.9	14.7	13.4	13.7
90°	14.7	12.3	10.0	7.9	6.2	4.4	2.6	0.8	2.6	4.4	6.2
92.5°	28.2	26.9	25.5	24.2	23.1	21.9	20.6	19.4	20.6	21.9	23.1
95°	56.6	55.1	53.7	52.4	51.1	49.8	48.6	47.4	48.6	49.8	51.1
97.5°	90.9	89.8	88.8	87.9	86.9	86.0	85.0	84.1	85.0	86.0	86.9
100°	116.2	115.3	114.4	113.4	112.3	111.3	110.2	109.2	110.2	111.3	112.3
102.5°	143.9	142.7	141.5	140.6	140.0	139.3	138.7	138.1	138.7	139.3	140.0
105°	186.2	184.6	183.0	182.0	181.6	181.3	180.9	180.6	180.9	181.3	181.6
107.5°	232.6	232.0	231.3	230.8	230.7	230.4	230.2	230.0	230.2	230.4	230.7
110°	263.3	263.0	262.6	262.3	261.9	261.6	261.2	260.9	261.2	261.6	261.9



TEST NUMBER: P332459-927

CATALOG NUMBER: S123RDIW-S1000D1030U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	294.1	294.0	293.9	293.8	293.6	293.3	293.2	292.9	293.2	293.3	293.6
115°	342.6	342.9	343.3	343.3	342.7	342.1	341.6	341.1	341.6	342.1	342.7
117.5°	390.0	390.5	390.9	391.0	390.6	390.3	389.9	389.6	389.9	390.3	390.6
120°	422.3	423.2	424.1	424.1	422.9	421.9	420.8	419.8	420.8	421.9	422.9
122.5°	453.6	454.1	454.5	454.3	453.5	452.8	452.0	451.2	452.0	452.8	453.5
125°	500.7	501.1	501.5	501.4	500.8	500.3	499.7	499.2	499.7	500.3	500.8
127.5°	547.6	548.0	548.4	548.0	546.9	545.8	544.6	543.5	544.6	545.8	546.9
130°	578.1	578.7	579.2	578.8	577.3	575.9	574.5	573.1	574.5	575.9	577.3
132.5°	608.0	608.4	608.8	608.3	606.9	605.4	604.0	602.5	604.0	605.4	606.9
135°	652.0	652.2	652.4	652.0	650.9	649.8	648.7	647.7	648.7	649.8	650.9
137.5°	694.6	694.1	693.6	693.0	692.1	691.2	690.3	689.4	690.3	691.2	692.1
140°	722.8	722.5	722.4	721.8	721.0	720.1	719.2	718.3	719.2	720.1	721.0
142.5°	749.4	749.1	748.8	748.2	747.3	746.4	745.5	744.7	745.5	746.4	747.3
145°	788.7	788.1	787.6	787.1	786.8	786.4	786.1	785.7	786.1	786.4	786.8
147.5°	825.9	825.3	824.8	824.3	823.6	822.9	822.3	821.7	822.3	822.9	823.6
150°	849.2	848.8	848.5	848.1	847.8	847.4	847.1	846.7	847.1	847.4	847.8
152.5°	870.1	869.8	869.6	869.3	868.8	868.2	867.8	867.3	867.8	868.2	868.8
155°	900.2	899.9	899.8	899.7	899.7	899.7	899.7	899.7	899.7	899.7	899.7
157.5°	926.7	926.5	926.4	926.5	926.6	926.9	927.1	927.3	927.1	926.9	926.6
160°	943.0	943.0	943.0	943.2	943.6	943.9	944.3	944.6	944.3	943.9	943.6
162.5°	958.1	958.0	957.8	958.1	958.5	959.0	959.6	960.0	959.6	959.0	958.5
165°	977.6	977.6	977.6	977.8	978.3	978.9	979.4	979.9	979.4	978.9	978.3
167.5°	993.0	992.8	992.7	993.0	993.7	994.4	995.1	995.9	995.1	994.4	993.7
170°	1001.6	1001.6	1001.6	1002.0	1002.7	1003.4	1004.1	1004.8	1004.1	1003.4	1002.7
172.5°	1008.7	1008.7	1008.7	1009.0	1009.7	1010.4	1011.1	1011.9	1011.1	1010.4	1009.7
175°	1016.1	1016.1	1016.1	1016.4	1017.2	1017.9	1018.6	1019.3	1018.6	1017.9	1017.2
177.5°	1019.8	1019.8	1019.8	1020.0	1020.6	1021.2	1021.8	1022.3	1021.8	1021.2	1020.6
180°	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7



TEST NUMBER: P332459-927

CATALOG NUMBER: S123RDIW-S1000D1030U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1237.8	1232.2	1228.3	1219.6	1214.1	1208.0	1202.0	1205.9	1205.5	1205.0	1205.0
5°	1196.3	1183.8	1172.6	1158.0	1148.8	1137.5	1128.9	1127.8	1130.0	1122.4	1118.1
7.5°	1155.1	1138.1	1122.1	1106.0	1089.0	1075.4	1066.9	1062.9	1057.4	1052.7	1047.9
10°	1126.2	1106.3	1090.6	1070.6	1052.3	1036.2	1026.0	1018.9	1015.1	1011.4	1004.3
12.5°	1096.5	1076.9	1057.0	1034.4	1017.0	998.2	990.5	982.7	975.5	971.2	961.6
15°	1052.9	1027.5	1006.5	982.8	963.4	945.1	934.3	918.6	916.5	911.1	901.4
17.5°	1009.2	981.7	952.7	935.2	913.2	894.1	877.7	872.5	857.1	851.3	842.8
20°	974.7	949.4	927.2	904.1	872.3	854.4	841.5	834.6	822.1	814.6	809.2
22.5°	944.9	919.2	893.7	866.6	840.3	820.4	811.0	800.0	793.2	782.7	776.8
25°	902.5	874.4	843.7	814.6	795.7	780.6	765.6	755.8	746.2	741.2	730.5
27.5°	853.1	823.8	795.0	772.9	749.8	734.9	721.2	712.6	700.9	692.8	686.8
30°	825.9	791.4	766.6	746.6	717.0	703.0	692.8	682.0	673.4	664.7	658.8
32.5°	794.4	763.0	739.4	714.8	692.0	676.7	663.5	653.9	646.6	638.4	632.5
35°	745.0	718.7	694.3	669.6	652.8	637.2	621.6	613.5	606.5	599.0	593.6
37.5°	700.4	675.7	652.7	629.2	608.4	595.7	583.1	576.9	567.4	562.4	556.9
40°	672.8	648.6	623.8	601.1	579.6	569.8	558.5	549.4	540.7	536.9	531.0
42.5°	642.6	618.4	597.5	573.1	555.4	542.2	531.8	521.7	515.3	509.8	506.4
45°	597.9	576.3	555.8	531.6	514.8	503.5	491.6	482.5	476.6	472.8	466.8
47.5°	554.4	532.8	512.1	490.9	474.8	461.8	450.0	443.5	435.7	431.1	427.1
50°	522.9	503.5	481.4	462.0	445.8	432.9	423.2	415.1	408.1	402.2	399.5
52.5°	494.0	473.3	454.2	436.2	419.1	404.4	395.6	387.1	381.8	375.0	371.9
55°	446.4	426.4	410.3	392.4	375.7	363.4	352.6	345.0	339.6	332.1	327.8
57.5°	401.6	383.7	364.4	349.0	331.8	321.3	312.4	302.1	295.6	289.6	285.4
60°	371.5	350.9	334.2	319.7	304.6	291.1	283.0	275.0	267.9	262.0	258.3
62.5°	339.9	322.1	306.2	290.3	276.6	264.8	255.4	248.7	242.5	238.7	235.0
65°	291.7	277.7	261.5	248.5	235.6	227.0	219.4	213.5	209.1	206.4	203.3
67.5°	247.2	233.6	219.5	206.8	198.2	191.6	186.6	181.6	179.4	175.9	173.8
70°	218.3	204.3	191.9	182.2	173.6	168.7	165.5	161.8	159.5	155.3	153.1
72.5°	186.9	176.7	167.8	159.8	152.9	148.5	144.3	139.7	136.3	131.5	129.4
75°	147.2	138.0	131.0	125.6	121.3	115.3	109.4	104.6	103.0	101.3	100.8
77.5°	109.0	103.2	98.2	93.6	88.2	83.9	82.6	81.5	81.2	80.3	80.3
80°	85.7	80.3	76.5	71.1	67.9	67.9	67.9	66.9	67.4	67.4	67.4
82.5°	63.7	58.8	56.7	54.7	54.1	54.6	54.6	54.7	54.4	55.3	54.9
85°	32.9	33.4	34.5	34.0	34.5	34.5	35.6	35.0	35.6	34.5	35.6
87.5°	13.6	15.4	16.2	17.2	18.1	18.1	18.7	18.8	19.4	19.5	19.6
90°	7.9	10.0	12.3	14.7	17.0	19.3	20.0	20.7	21.4	22.1	22.7
92.5°	24.2	25.5	26.9	28.2	29.5	30.8	31.4	31.9	32.6	33.1	33.3
95°	52.4	53.7	55.1	56.6	58.0	59.4	60.1	60.8	61.6	62.3	62.6
97.5°	87.9	88.8	89.8	90.9	91.9	92.9	93.8	94.6	95.4	96.3	96.6
100°	113.4	114.4	115.3	116.2	117.1	118.0	118.5	119.1	119.6	120.1	120.6
102.5°	140.6	141.5	142.7	143.9	145.0	146.2	146.8	147.3	147.8	148.4	148.6
105°	182.0	183.0	184.6	186.2	187.8	189.4	189.4	189.4	189.4	189.4	189.6
107.5°	230.8	231.3	232.0	232.6	233.2	233.9	234.4	235.0	235.6	236.1	236.3
110°	262.3	262.6	263.0	263.3	263.7	264.0	264.7	265.5	266.2	266.9	267.0



TEST NUMBER: P332459-927

CATALOG NUMBER: S123RDIW-S1000D1030U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	293.8	293.9	294.0	294.1	294.1	294.2	295.1	296.0	296.8	297.6	298.0
115°	343.3	343.3	342.9	342.6	342.2	341.9	342.1	342.2	342.5	342.6	342.6
117.5°	391.0	390.9	390.5	390.0	389.5	389.1	389.0	389.0	389.0	389.0	388.6
120°	424.1	424.1	423.2	422.3	421.4	420.6	420.3	420.2	420.0	419.9	419.5
122.5°	454.3	454.5	454.1	453.6	453.1	452.7	452.2	451.7	451.2	450.8	450.3
125°	501.4	501.5	501.1	500.7	500.3	500.0	499.3	498.6	497.9	497.2	496.5
127.5°	548.0	548.4	548.0	547.6	547.2	546.8	545.9	544.9	543.9	542.9	541.9
130°	578.8	579.2	578.7	578.1	577.6	577.0	576.3	575.6	574.9	574.2	573.2
132.5°	608.3	608.8	608.4	608.0	607.6	607.2	606.3	605.5	604.7	603.8	602.9
135°	652.0	652.4	652.2	652.0	651.9	651.6	650.9	650.2	649.5	648.8	648.3
137.5°	693.0	693.6	694.1	694.6	695.1	695.5	694.7	694.0	693.2	692.5	691.8
140°	721.8	722.4	722.5	722.8	722.9	723.1	722.9	722.8	722.5	722.4	721.7
142.5°	748.2	748.8	749.1	749.4	749.8	750.1	749.9	749.7	749.6	749.4	748.8
145°	787.1	787.6	788.1	788.7	789.2	789.7	789.6	789.4	789.2	789.0	788.5
147.5°	824.3	824.8	825.3	825.9	826.3	826.8	826.8	826.8	826.8	826.8	826.2
150°	848.1	848.5	848.8	849.2	849.5	849.9	849.9	849.9	849.9	849.9	849.4
152.5°	869.3	869.6	869.8	870.1	870.3	870.4	870.8	871.0	871.3	871.6	871.3
155°	899.7	899.8	899.9	900.2	900.3	900.5	901.2	901.9	902.6	903.3	903.1
157.5°	926.5	926.4	926.5	926.7	926.9	926.9	927.7	928.4	929.2	929.9	929.9
160°	943.2	943.0	943.0	943.0	943.0	943.0	943.9	944.8	945.7	946.6	946.7
162.5°	958.1	957.8	958.0	958.1	958.3	958.5	959.3	960.2	961.1	962.0	961.9
165°	977.8	977.6	977.6	977.6	977.6	977.6	978.6	979.7	980.7	981.8	981.8
167.5°	993.0	992.7	992.8	993.0	993.2	993.2	994.3	995.5	996.6	997.7	997.7
170°	1002.0	1001.6	1001.6	1001.6	1001.6	1001.6	1002.8	1004.1	1005.4	1006.6	1006.6
172.5°	1009.0	1008.7	1008.7	1008.7	1008.7	1008.7	1009.8	1010.9	1012.0	1013.1	1013.0
175°	1016.4	1016.1	1016.1	1016.1	1016.1	1016.1	1017.2	1018.2	1019.3	1020.3	1020.3
177.5°	1020.0	1019.8	1019.8	1019.8	1019.8	1019.8	1020.6	1021.4	1022.3	1023.2	1023.1
180°	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7



TEST NUMBER: P332459-927

CATALOG NUMBER: S123RDIW-S1000D1030U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1199.8	1199.4	1199.8	1198.1	1199.8	1199.4	1199.8	1205.0	1205.0	1205.5	1205.9
5°	1116.5	1115.9	1114.4	1109.5	1114.4	1115.9	1116.5	1118.1	1122.4	1130.0	1127.8
7.5°	1043.7	1043.0	1038.2	1038.3	1038.2	1043.0	1043.7	1047.9	1052.7	1057.4	1062.9
10°	1000.6	1001.1	994.7	990.9	994.7	1001.1	1000.6	1004.3	1011.4	1015.1	1018.9
12.5°	958.8	956.2	951.1	946.9	951.1	956.2	958.8	961.6	971.2	975.5	982.7
15°	903.6	898.2	885.2	886.3	885.2	898.2	903.6	901.4	911.1	916.5	918.6
17.5°	838.5	834.6	834.3	826.8	834.3	834.6	838.5	842.8	851.3	857.1	872.5
20°	800.6	797.9	798.9	791.4	798.9	797.9	800.6	809.2	814.6	822.1	834.6
22.5°	770.8	768.1	763.6	761.2	763.6	768.1	770.8	776.8	782.7	793.2	800.0
25°	727.2	722.9	718.7	721.4	718.7	722.9	727.2	730.5	741.2	746.2	755.8
27.5°	683.7	680.5	676.1	675.6	676.1	680.5	683.7	686.8	692.8	700.9	712.6
30°	656.1	652.8	650.7	648.0	650.7	652.8	656.1	658.8	664.7	673.4	682.0
32.5°	628.0	627.4	623.5	623.0	623.5	627.4	628.0	632.5	638.4	646.6	653.9
35°	591.4	588.2	587.1	587.6	587.1	588.2	591.4	593.6	599.0	606.5	613.5
37.5°	556.6	552.2	550.3	548.3	550.3	552.2	556.6	556.9	562.4	567.4	576.9
40°	531.6	527.3	526.2	525.1	526.2	527.3	531.6	531.0	536.9	540.7	549.4
42.5°	503.5	501.8	501.1	499.2	501.1	501.8	503.5	506.4	509.8	515.3	521.7
45°	465.2	464.7	461.4	462.6	461.4	464.7	465.2	466.8	472.8	476.6	482.5
47.5°	424.9	422.6	420.3	421.8	420.3	422.6	424.9	427.1	431.1	435.7	443.5
50°	397.4	396.2	391.4	392.4	391.4	396.2	397.4	399.5	402.2	408.1	415.1
52.5°	369.7	365.6	363.8	363.1	363.8	365.6	369.7	371.9	375.0	381.8	387.1
55°	324.0	319.2	317.0	315.9	317.0	319.2	324.0	327.8	332.1	339.6	345.0
57.5°	279.2	277.8	276.2	277.3	276.2	277.8	279.2	285.4	289.6	295.6	302.1
60°	252.9	252.9	252.9	252.3	252.9	252.9	252.9	258.3	262.0	267.9	275.0
62.5°	232.6	231.2	230.8	231.6	230.8	231.2	232.6	235.0	238.7	242.5	248.7
65°	201.6	201.1	198.9	198.4	198.9	201.1	201.6	203.3	206.4	209.1	213.5
67.5°	172.4	170.5	169.8	169.1	169.8	170.5	172.4	173.8	175.9	179.4	181.6
70°	150.4	149.3	146.1	146.6	146.1	149.3	150.4	153.1	155.3	159.5	161.8
72.5°	126.7	125.6	124.9	124.2	124.9	125.6	126.7	129.4	131.5	136.3	139.7
75°	100.3	99.7	99.2	101.3	99.2	99.7	100.3	100.8	101.3	103.0	104.6
77.5°	80.3	80.3	80.6	79.8	80.6	80.3	80.3	80.3	80.3	81.2	81.5
80°	67.4	67.4	66.9	66.9	66.9	67.4	67.4	67.4	67.4	67.4	66.9
82.5°	54.0	54.4	54.7	53.9	54.7	54.4	54.0	54.9	55.3	54.4	54.7
85°	35.6	35.0	36.1	35.6	36.1	35.0	35.6	35.6	34.5	35.6	35.0
87.5°	20.6	19.8	19.8	20.4	19.8	19.8	20.6	19.6	19.5	19.4	18.8
90°	23.0	23.4	23.7	24.1	23.7	23.4	23.0	22.7	22.1	21.4	20.7
92.5°	33.0	32.9	32.6	32.4	32.6	32.9	33.0	33.3	33.1	32.6	31.9
95°	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.3	61.6	60.8
97.5°	96.5	96.5	96.4	96.3	96.4	96.5	96.5	96.6	96.3	95.4	94.6
100°	120.9	121.3	121.6	122.0	121.6	121.3	120.9	120.6	120.1	119.6	119.1
102.5°	148.5	148.5	148.4	148.3	148.4	148.5	148.5	148.6	148.4	147.8	147.3
105°	190.0	190.3	190.7	191.0	190.7	190.3	190.0	189.6	189.4	189.4	189.4
107.5°	236.1	235.9	235.7	235.4	235.7	235.9	236.1	236.3	236.1	235.6	235.0
110°	266.7	266.3	266.0	265.6	266.0	266.3	266.7	267.0	266.9	266.2	265.5



TEST NUMBER: P332459-927

CATALOG NUMBER: S123RDIW-S1000D1030U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	297.9	297.9	297.9	297.8	297.9	297.9	297.9	298.0	297.6	296.8	296.0
115°	342.5	342.2	342.1	341.9	342.1	342.2	342.5	342.6	342.6	342.5	342.2
117.5°	388.2	387.7	387.1	386.7	387.1	387.7	388.2	388.6	389.0	389.0	389.0
120°	419.2	418.8	418.5	418.1	418.5	418.8	419.2	419.5	419.9	420.0	420.2
122.5°	449.8	449.3	448.9	448.3	448.9	449.3	449.8	450.3	450.8	451.2	451.7
125°	495.7	495.0	494.3	493.6	494.3	495.0	495.7	496.5	497.2	497.9	498.6
127.5°	541.1	540.3	539.5	538.7	539.5	540.3	541.1	541.9	542.9	543.9	544.9
130°	572.0	570.7	569.5	568.2	569.5	570.7	572.0	573.2	574.2	574.9	575.6
132.5°	601.9	600.9	600.0	599.0	600.0	600.9	601.9	602.9	603.8	604.7	605.5
135°	647.9	647.6	647.2	646.9	647.2	647.6	647.9	648.3	648.8	649.5	650.2
137.5°	691.1	690.5	689.8	689.1	689.8	690.5	691.1	691.8	692.5	693.2	694.0
140°	720.4	719.2	718.0	716.7	718.0	719.2	720.4	721.7	722.4	722.5	722.8
142.5°	747.8	746.9	745.9	745.0	745.9	746.9	747.8	748.8	749.4	749.6	749.7
145°	787.8	787.1	786.4	785.7	786.4	787.1	787.8	788.5	789.0	789.2	789.4
147.5°	825.2	824.1	823.1	822.0	823.1	824.1	825.2	826.2	826.8	826.8	826.8
150°	848.3	847.2	846.2	845.1	846.2	847.2	848.3	849.4	849.9	849.9	849.9
152.5°	870.4	869.4	868.5	867.6	868.5	869.4	870.4	871.3	871.6	871.3	871.0
155°	901.8	900.6	899.4	898.1	899.4	900.6	901.8	903.1	903.3	902.6	901.9
157.5°	928.8	927.9	926.9	925.8	926.9	927.9	928.8	929.9	929.9	929.2	928.4
160°	945.9	945.2	944.5	943.8	944.5	945.2	945.9	946.7	946.6	945.7	944.8
162.5°	960.8	959.6	958.5	957.3	958.5	959.6	960.8	961.9	962.0	961.1	960.2
165°	980.5	979.2	977.9	976.8	977.9	979.2	980.5	981.8	981.8	980.7	979.7
167.5°	996.6	995.5	994.3	993.2	994.3	995.5	996.6	997.7	997.7	996.6	995.5
170°	1005.4	1004.1	1002.8	1001.6	1002.8	1004.1	1005.4	1006.6	1006.6	1005.4	1004.1
172.5°	1011.8	1010.5	1009.2	1008.1	1009.2	1010.5	1011.8	1013.0	1013.1	1012.0	1010.9
175°	1019.0	1017.7	1016.5	1015.3	1016.5	1017.7	1019.0	1020.3	1020.3	1019.3	1018.2
177.5°	1022.1	1021.1	1020.1	1019.1	1020.1	1021.1	1022.1	1023.1	1023.2	1022.3	1021.4
180°	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7



TEST NUMBER: P332459-927

CATALOG NUMBER: S123RDIW-S1000D1030U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1202.0	1208.0	1214.1	1219.6	1228.3	1232.2	1237.8	1239.9	1246.4	1255.9	1263.7
5°	1128.9	1137.5	1148.8	1158.0	1172.6	1183.8	1196.3	1208.2	1222.2	1242.1	1259.9
7.5°	1066.9	1075.4	1089.0	1106.0	1122.1	1138.1	1155.1	1171.2	1191.3	1219.9	1248.2
10°	1026.0	1036.2	1052.3	1070.6	1090.6	1106.3	1126.2	1146.7	1171.5	1204.4	1238.3
12.5°	990.5	998.2	1017.0	1034.4	1057.0	1076.9	1096.5	1120.4	1148.6	1183.7	1224.6
15°	934.3	945.1	963.4	982.8	1006.5	1027.5	1052.9	1082.0	1109.5	1152.6	1202.2
17.5°	877.7	894.1	913.2	935.2	952.7	981.7	1009.2	1039.1	1072.9	1118.6	1173.1
20°	841.5	854.4	872.3	904.1	927.2	949.4	974.7	1011.9	1043.1	1095.0	1151.5
22.5°	811.0	820.4	840.3	866.6	893.7	919.2	944.9	980.4	1019.0	1068.2	1129.6
25°	765.6	780.6	795.7	814.6	843.7	874.4	902.5	932.6	973.6	1026.0	1092.3
27.5°	721.2	734.9	749.8	772.9	795.0	823.8	853.1	887.7	931.7	987.0	1054.2
30°	692.8	703.0	717.0	746.6	766.6	791.4	825.9	856.7	897.6	956.4	1027.5
32.5°	663.5	676.7	692.0	714.8	739.4	763.0	794.4	827.8	869.6	927.5	1000.4
35°	621.6	637.2	652.8	669.6	694.3	718.7	745.0	781.7	824.3	880.4	952.0
37.5°	583.1	595.7	608.4	629.2	652.7	675.7	700.4	736.5	776.7	837.1	902.9
40°	558.5	569.8	579.6	601.1	623.8	648.6	672.8	704.6	747.7	804.4	868.0
42.5°	531.8	542.2	555.4	573.1	597.5	618.4	642.6	672.7	713.2	770.7	826.6
45°	491.6	503.5	514.8	531.6	555.8	576.3	597.9	626.5	668.0	715.4	765.0
47.5°	450.0	461.8	474.8	490.9	512.1	532.8	554.4	579.7	617.6	664.2	697.6
50°	423.2	432.9	445.8	462.0	481.4	503.5	522.9	550.4	586.5	623.2	652.3
52.5°	395.6	404.4	419.1	436.2	454.2	473.3	494.0	517.6	550.3	584.8	607.9
55°	352.6	363.4	375.7	392.4	410.3	426.4	446.4	470.6	496.5	522.4	538.1
57.5°	312.4	321.3	331.8	349.0	364.4	383.7	401.6	420.5	444.4	464.0	474.2
60°	283.0	291.1	304.6	319.7	334.2	350.9	371.5	390.3	408.6	424.3	432.4
62.5°	255.4	264.8	276.6	290.3	306.2	322.1	339.9	355.8	372.0	385.5	390.9
65°	219.4	227.0	235.6	248.5	261.5	277.7	291.7	307.8	319.7	327.3	332.1
67.5°	186.6	191.6	198.2	206.8	219.5	233.6	247.2	259.8	269.7	275.0	279.2
70°	165.5	168.7	173.6	182.2	191.9	204.3	218.3	227.5	236.1	240.4	244.8
72.5°	144.3	148.5	152.9	159.8	167.8	176.7	186.9	198.2	203.0	208.1	210.7
75°	109.4	115.3	121.3	125.6	131.0	138.0	147.2	154.2	156.9	161.2	161.8
77.5°	82.6	83.9	88.2	93.6	98.2	103.2	109.0	115.3	116.5	118.8	120.3
80°	67.9	67.9	67.9	71.1	76.5	80.3	85.7	89.0	91.1	91.7	92.2
82.5°	54.6	54.6	54.1	54.7	56.7	58.8	63.7	67.4	69.1	68.8	67.6
85°	35.6	34.5	34.5	34.0	34.5	33.4	32.9	35.0	38.3	38.3	37.2
87.5°	18.7	18.1	18.1	17.2	16.2	15.4	13.6	13.7	13.4	14.7	13.9
90°	20.0	19.3	17.0	14.7	12.3	10.0	7.9	6.2	4.4	2.6	0.8
92.5°	31.4	30.8	29.5	28.2	26.9	25.5	24.2	23.1	21.9	20.6	19.4
95°	60.1	59.4	58.0	56.6	55.1	53.7	52.4	51.1	49.8	48.6	47.4
97.5°	93.8	92.9	91.9	90.9	89.8	88.8	87.9	86.9	86.0	85.0	84.1
100°	118.5	118.0	117.1	116.2	115.3	114.4	113.4	112.3	111.3	110.2	109.2
102.5°	146.8	146.2	145.0	143.9	142.7	141.5	140.6	140.0	139.3	138.7	138.1
105°	189.4	189.4	187.8	186.2	184.6	183.0	182.0	181.6	181.3	180.9	180.6
107.5°	234.4	233.9	233.2	232.6	232.0	231.3	230.8	230.7	230.4	230.2	230.0
110°	264.7	264.0	263.7	263.3	263.0	262.6	262.3	261.9	261.6	261.2	260.9



TEST NUMBER: P332459-927

CATALOG NUMBER: S123RDIW-S1000D1030U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	295.1	294.2	294.1	294.1	294.0	293.9	293.8	293.6	293.3	293.2	292.9
115°	342.1	341.9	342.2	342.6	342.9	343.3	343.3	342.7	342.1	341.6	341.1
117.5°	389.0	389.1	389.5	390.0	390.5	390.9	391.0	390.6	390.3	389.9	389.6
120°	420.3	420.6	421.4	422.3	423.2	424.1	424.1	422.9	421.9	420.8	419.8
122.5°	452.2	452.7	453.1	453.6	454.1	454.5	454.3	453.5	452.8	452.0	451.2
125°	499.3	500.0	500.3	500.7	501.1	501.5	501.4	500.8	500.3	499.7	499.2
127.5°	545.9	546.8	547.2	547.6	548.0	548.4	548.0	546.9	545.8	544.6	543.5
130°	576.3	577.0	577.6	578.1	578.7	579.2	578.8	577.3	575.9	574.5	573.1
132.5°	606.3	607.2	607.6	608.0	608.4	608.8	608.3	606.9	605.4	604.0	602.5
135°	650.9	651.6	651.9	652.0	652.2	652.4	652.0	650.9	649.8	648.7	647.7
137.5°	694.7	695.5	695.1	694.6	694.1	693.6	693.0	692.1	691.2	690.3	689.4
140°	722.9	723.1	722.9	722.8	722.5	722.4	721.8	721.0	720.1	719.2	718.3
142.5°	749.9	750.1	749.8	749.4	749.1	748.8	748.2	747.3	746.4	745.5	744.7
145°	789.6	789.7	789.2	788.7	788.1	787.6	787.1	786.8	786.4	786.1	785.7
147.5°	826.8	826.8	826.3	825.9	825.3	824.8	824.3	823.6	822.9	822.3	821.7
150°	849.9	849.9	849.5	849.2	848.8	848.5	848.1	847.8	847.4	847.1	846.7
152.5°	870.8	870.4	870.3	870.1	869.8	869.6	869.3	868.8	868.2	867.8	867.3
155°	901.2	900.5	900.3	900.2	899.9	899.8	899.7	899.7	899.7	899.7	899.7
157.5°	927.7	926.9	926.9	926.7	926.5	926.4	926.5	926.6	926.9	927.1	927.3
160°	943.9	943.0	943.0	943.0	943.0	943.0	943.2	943.6	943.9	944.3	944.6
162.5°	959.3	958.5	958.3	958.1	958.0	957.8	958.1	958.5	959.0	959.6	960.0
165°	978.6	977.6	977.6	977.6	977.6	977.6	977.8	978.3	978.9	979.4	979.9
167.5°	994.3	993.2	993.2	993.0	992.8	992.7	993.0	993.7	994.4	995.1	995.9
170°	1002.8	1001.6	1001.6	1001.6	1001.6	1001.6	1002.0	1002.7	1003.4	1004.1	1004.8
172.5°	1009.8	1008.7	1008.7	1008.7	1008.7	1008.7	1009.0	1009.7	1010.4	1011.1	1011.9
175°	1017.2	1016.1	1016.1	1016.1	1016.1	1016.1	1016.4	1017.2	1017.9	1018.6	1019.3
177.5°	1020.6	1019.8	1019.8	1019.8	1019.8	1019.8	1020.0	1020.6	1021.2	1021.8	1022.3
180°	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7



TEST NUMBER: P332459-927

CATALOG NUMBER: S123RDIW-S1000D1030U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1266.2	1271.0	1277.0	1286.1	1293.0	1299.0	1300.3	1302.0	1306.4	1313.7	1319.3
5°	1274.5	1286.8	1306.8	1326.2	1347.3	1364.5	1380.6	1391.9	1402.7	1425.4	1443.8
7.5°	1271.8	1299.5	1330.7	1365.6	1400.8	1435.0	1466.7	1495.1	1523.3	1556.3	1593.9
10°	1270.1	1302.5	1344.5	1389.3	1438.4	1486.3	1532.7	1568.8	1610.8	1648.6	1696.5
12.5°	1261.9	1308.5	1358.8	1416.0	1476.3	1531.6	1592.6	1642.5	1690.7	1745.2	1800.9
15°	1251.3	1307.9	1371.5	1447.5	1539.1	1606.0	1668.5	1755.3	1814.7	1873.9	1953.8
17.5°	1231.8	1300.8	1380.3	1479.1	1555.5	1645.4	1739.5	1808.1	1887.9	1971.5	2043.8
20°	1216.2	1296.6	1385.5	1482.6	1580.1	1677.7	1768.8	1850.8	1933.2	2029.7	2089.1
22.5°	1200.7	1280.2	1372.5	1475.7	1580.6	1683.3	1786.5	1882.7	1975.5	2072.8	2148.6
25°	1167.7	1262.0	1362.3	1467.4	1571.0	1684.2	1807.0	1914.4	2029.2	2129.5	2201.2
27.5°	1134.2	1220.8	1320.6	1427.2	1542.3	1676.1	1820.7	1942.6	2057.7	2129.5	2152.0
30°	1104.1	1195.7	1287.4	1395.7	1520.3	1669.6	1823.3	1962.9	2057.2	2088.5	2065.3
32.5°	1073.5	1156.5	1247.3	1358.2	1490.5	1653.7	1826.7	1950.8	2007.6	1983.7	1889.4
35°	1019.5	1094.4	1182.3	1293.3	1445.3	1644.8	1812.5	1896.6	1882.5	1747.8	1569.9
37.5°	961.6	1022.7	1104.1	1220.2	1398.5	1609.8	1751.2	1763.6	1642.4	1435.4	1229.9
40°	915.9	970.9	1054.5	1175.8	1362.3	1575.3	1689.6	1639.4	1451.3	1221.1	1049.6
42.5°	871.5	917.9	998.4	1129.2	1327.9	1528.3	1597.7	1488.5	1271.5	1053.8	897.9
45°	796.2	840.0	920.8	1055.0	1257.2	1438.4	1429.2	1239.4	1022.2	846.9	717.6
47.5°	724.8	763.0	838.9	976.0	1174.3	1303.5	1217.8	1015.9	831.6	691.0	598.7
50°	674.4	712.2	787.7	923.0	1107.9	1202.2	1079.8	885.2	716.4	600.0	526.7
52.5°	626.1	663.0	732.0	863.9	1027.6	1084.0	952.6	772.2	631.5	531.0	468.0
55°	558.5	586.5	648.6	774.7	897.1	910.0	776.8	625.9	510.0	439.9	396.8
57.5°	489.6	513.7	575.0	675.5	761.3	754.6	628.4	497.8	419.8	367.7	336.4
60°	444.7	468.5	522.4	608.6	673.4	650.7	534.8	429.7	362.8	324.6	299.8
62.5°	402.9	421.4	471.9	534.9	581.5	555.8	457.2	370.2	317.1	284.9	265.2
65°	342.3	357.4	397.8	430.7	456.6	431.8	349.9	289.5	251.2	228.5	215.1
67.5°	284.8	294.4	319.9	331.8	350.0	322.8	263.1	222.7	200.9	181.8	172.4
70°	248.5	255.6	269.0	278.7	283.6	255.6	211.4	181.6	163.3	149.9	143.9
72.5°	212.3	218.5	221.2	229.1	226.6	200.3	169.9	146.3	133.2	124.0	116.4
75°	162.2	164.9	162.2	159.1	152.0	133.7	112.6	100.8	91.1	86.8	84.1
77.5°	118.3	117.4	113.8	108.7	96.7	85.2	73.8	69.9	65.7	63.4	62.4
80°	91.1	89.0	85.7	77.6	67.4	59.3	56.6	53.9	52.3	49.6	49.0
82.5°	67.8	66.5	61.2	54.3	47.1	43.3	41.1	40.1	38.5	37.1	37.0
85°	36.1	34.5	28.6	24.8	23.7	22.7	22.1	22.1	20.0	19.4	19.4
87.5°	12.2	9.9	9.8	9.0	9.3	9.0	9.8	9.4	9.4	10.1	9.3
90°	2.6	4.4	6.2	7.9	10.0	12.3	14.7	17.0	19.3	20.0	20.7
92.5°	20.6	21.9	23.1	24.2	25.5	26.9	28.2	29.5	30.8	31.4	31.9
95°	48.6	49.8	51.1	52.4	53.7	55.1	56.6	58.0	59.4	60.1	60.8
97.5°	85.0	86.0	86.9	87.9	88.8	89.8	90.9	91.9	92.9	93.8	94.6
100°	110.2	111.3	112.3	113.4	114.4	115.3	116.2	117.1	118.0	118.5	119.1
102.5°	138.7	139.3	140.0	140.6	141.5	142.7	143.9	145.0	146.2	146.8	147.3
105°	180.9	181.3	181.6	182.0	183.0	184.6	186.2	187.8	189.4	189.4	189.4
107.5°	230.2	230.4	230.7	230.8	231.3	232.0	232.6	233.2	233.9	234.4	235.0
110°	261.2	261.6	261.9	262.3	262.6	263.0	263.3	263.7	264.0	264.7	265.5



TEST NUMBER: P332459-927

CATALOG NUMBER: S123RDIW-S1000D1030U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	293.2	293.3	293.6	293.8	293.9	294.0	294.1	294.1	294.2	295.1	296.0
115°	341.6	342.1	342.7	343.3	343.3	342.9	342.6	342.2	341.9	342.1	342.2
117.5°	389.9	390.3	390.6	391.0	390.9	390.5	390.0	389.5	389.1	389.0	389.0
120°	420.8	421.9	422.9	424.1	424.1	423.2	422.3	421.4	420.6	420.3	420.2
122.5°	452.0	452.8	453.5	454.3	454.5	454.1	453.6	453.1	452.7	452.2	451.7
125°	499.7	500.3	500.8	501.4	501.5	501.1	500.7	500.3	500.0	499.3	498.6
127.5°	544.6	545.8	546.9	548.0	548.4	548.0	547.6	547.2	546.8	545.9	544.9
130°	574.5	575.9	577.3	578.8	579.2	578.7	578.1	577.6	577.0	576.3	575.6
132.5°	604.0	605.4	606.9	608.3	608.8	608.4	608.0	607.6	607.2	606.3	605.5
135°	648.7	649.8	650.9	652.0	652.4	652.2	652.0	651.9	651.6	650.9	650.2
137.5°	690.3	691.2	692.1	693.0	693.6	694.1	694.6	695.1	695.5	694.7	694.0
140°	719.2	720.1	721.0	721.8	722.4	722.5	722.8	722.9	723.1	722.9	722.8
142.5°	745.5	746.4	747.3	748.2	748.8	749.1	749.4	749.8	750.1	749.9	749.7
145°	786.1	786.4	786.8	787.1	787.6	788.1	788.7	789.2	789.7	789.6	789.4
147.5°	822.3	822.9	823.6	824.3	824.8	825.3	825.9	826.3	826.8	826.8	826.8
150°	847.1	847.4	847.8	848.1	848.5	848.8	849.2	849.5	849.9	849.9	849.9
152.5°	867.8	868.2	868.8	869.3	869.6	869.8	870.1	870.3	870.4	870.8	871.0
155°	899.7	899.7	899.7	899.7	899.8	899.9	900.2	900.3	900.5	901.2	901.9
157.5°	927.1	926.9	926.6	926.5	926.4	926.5	926.7	926.9	926.9	927.7	928.4
160°	944.3	943.9	943.6	943.2	943.0	943.0	943.0	943.0	943.0	943.9	944.8
162.5°	959.6	959.0	958.5	958.1	957.8	958.0	958.1	958.3	958.5	959.3	960.2
165°	979.4	978.9	978.3	977.8	977.6	977.6	977.6	977.6	977.6	978.6	979.7
167.5°	995.1	994.4	993.7	993.0	992.7	992.8	993.0	993.2	993.2	994.3	995.5
170°	1004.1	1003.4	1002.7	1002.0	1001.6	1001.6	1001.6	1001.6	1001.6	1002.8	1004.1
172.5°	1011.1	1010.4	1009.7	1009.0	1008.7	1008.7	1008.7	1008.7	1008.7	1009.8	1010.9
175°	1018.6	1017.9	1017.2	1016.4	1016.1	1016.1	1016.1	1016.1	1016.1	1017.2	1018.2
177.5°	1021.8	1021.2	1020.6	1020.0	1019.8	1019.8	1019.8	1019.8	1019.8	1020.6	1021.4
180°	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7



TEST NUMBER: P332459-927

CATALOG NUMBER: S123RDIW-S1000D1030U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1328.3	1328.3	1330.1	1336.6	1337.4	1343.0	1341.3
5°	1459.9	1470.1	1473.9	1490.1	1499.8	1504.1	1495.5
7.5°	1620.8	1649.6	1663.3	1680.3	1695.3	1699.8	1688.1
10°	1738.0	1768.2	1793.6	1809.3	1823.8	1833.5	1845.9
12.5°	1851.5	1888.6	1912.6	1934.7	1949.7	1962.0	1964.1
15°	1974.8	2030.8	2073.4	2104.7	2120.3	2128.4	2125.2
17.5°	2099.0	2151.0	2181.4	2213.3	2234.9	2236.0	2236.6
20°	2169.4	2220.0	2255.1	2278.8	2303.0	2302.0	2307.4
22.5°	2216.4	2256.3	2283.1	2300.3	2308.7	2304.5	2305.6
25°	2238.4	2250.2	2245.4	2217.9	2210.9	2185.6	2189.8
27.5°	2124.9	2068.9	2010.9	1936.3	1877.4	1830.3	1832.7
30°	1970.9	1871.8	1758.6	1663.7	1578.5	1554.8	1504.1
32.5°	1755.8	1606.9	1474.3	1385.9	1312.8	1293.0	1248.8
35°	1390.9	1246.4	1110.0	1028.1	995.7	950.5	949.9
37.5°	1081.1	953.9	881.8	820.3	788.1	760.7	758.0
40°	909.5	810.2	755.8	711.6	679.9	659.3	654.5
42.5°	789.6	709.3	658.4	631.0	606.5	596.0	588.0
45°	644.8	590.9	555.2	530.4	519.2	511.0	506.8
47.5°	539.3	503.2	479.0	462.5	453.3	444.7	447.0
50°	482.0	452.3	434.5	418.9	411.9	405.9	406.5
52.5°	435.8	409.2	394.8	383.5	374.8	370.6	368.5
55°	369.8	353.1	338.6	330.5	325.6	319.7	318.1
57.5°	315.4	302.5	290.7	281.5	280.4	274.6	275.4
60°	279.2	268.5	258.8	253.9	250.2	245.3	246.9
62.5°	249.5	240.4	231.6	227.6	223.9	220.3	221.0
65°	204.3	195.7	190.3	188.1	186.6	184.9	183.3
67.5°	162.8	157.6	154.2	149.6	146.2	145.7	144.0
70°	137.0	129.9	124.0	118.0	116.5	115.9	116.5
72.5°	109.8	105.4	103.7	100.8	100.5	99.1	100.1
75°	82.5	80.9	79.8	77.6	77.6	77.6	77.6
77.5°	60.8	59.8	59.2	58.8	58.2	57.4	57.4
80°	47.5	46.9	45.8	45.8	45.3	45.8	45.3
82.5°	35.8	35.7	34.6	34.6	34.1	33.7	34.1
85°	18.3	17.8	18.9	17.8	18.3	17.3	18.3
87.5°	9.4	9.6	9.3	9.3	9.0	9.9	9.1
90°	21.4	22.1	22.7	23.0	23.4	23.7	24.1
92.5°	32.6	33.1	33.3	33.0	32.9	32.6	32.4
95°	61.6	62.3	62.6	62.6	62.6	62.6	62.6
97.5°	95.4	96.3	96.6	96.5	96.5	96.4	96.3
100°	119.6	120.1	120.6	120.9	121.3	121.6	122.0
102.5°	147.8	148.4	148.6	148.5	148.5	148.4	148.3
105°	189.4	189.4	189.6	190.0	190.3	190.7	191.0
107.5°	235.6	236.1	236.3	236.1	235.9	235.7	235.4
110°	266.2	266.9	267.0	266.7	266.3	266.0	265.6



TEST NUMBER: P332459-927

CATALOG NUMBER: S123RDIW-S1000D1030U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	296.8	297.6	298.0	297.9	297.9	297.9	297.8
115°	342.5	342.6	342.6	342.5	342.2	342.1	341.9
117.5°	389.0	389.0	388.6	388.2	387.7	387.1	386.7
120°	420.0	419.9	419.5	419.2	418.8	418.5	418.1
122.5°	451.2	450.8	450.3	449.8	449.3	448.9	448.3
125°	497.9	497.2	496.5	495.7	495.0	494.3	493.6
127.5°	543.9	542.9	541.9	541.1	540.3	539.5	538.7
130°	574.9	574.2	573.2	572.0	570.7	569.5	568.2
132.5°	604.7	603.8	602.9	601.9	600.9	600.0	599.0
135°	649.5	648.8	648.3	647.9	647.6	647.2	646.9
137.5°	693.2	692.5	691.8	691.1	690.5	689.8	689.1
140°	722.5	722.4	721.7	720.4	719.2	718.0	716.7
142.5°	749.6	749.4	748.8	747.8	746.9	745.9	745.0
145°	789.2	789.0	788.5	787.8	787.1	786.4	785.7
147.5°	826.8	826.8	826.2	825.2	824.1	823.1	822.0
150°	849.9	849.9	849.4	848.3	847.2	846.2	845.1
152.5°	871.3	871.6	871.3	870.4	869.4	868.5	867.6
155°	902.6	903.3	903.1	901.8	900.6	899.4	898.1
157.5°	929.2	929.9	929.9	928.8	927.9	926.9	925.8
160°	945.7	946.6	946.7	945.9	945.2	944.5	943.8
162.5°	961.1	962.0	961.9	960.8	959.6	958.5	957.3
165°	980.7	981.8	981.8	980.5	979.2	977.9	976.8
167.5°	996.6	997.7	997.7	996.6	995.5	994.3	993.2
170°	1005.4	1006.6	1006.6	1005.4	1004.1	1002.8	1001.6
172.5°	1012.0	1013.1	1013.0	1011.8	1010.5	1009.2	1008.1
175°	1019.3	1020.3	1020.3	1019.0	1017.7	1016.5	1015.3
177.5°	1022.3	1023.2	1023.1	1022.1	1021.1	1020.1	1019.1
180°	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7

(END OF REPORT)