

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: P332422

Luminaire Tested: **S123RDIW-S560D1320U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332422
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S560D1320U835-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1320 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7510.5 lumens
Efficiency: N/A
Efficacy: 139.6 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: Semi-Indirect

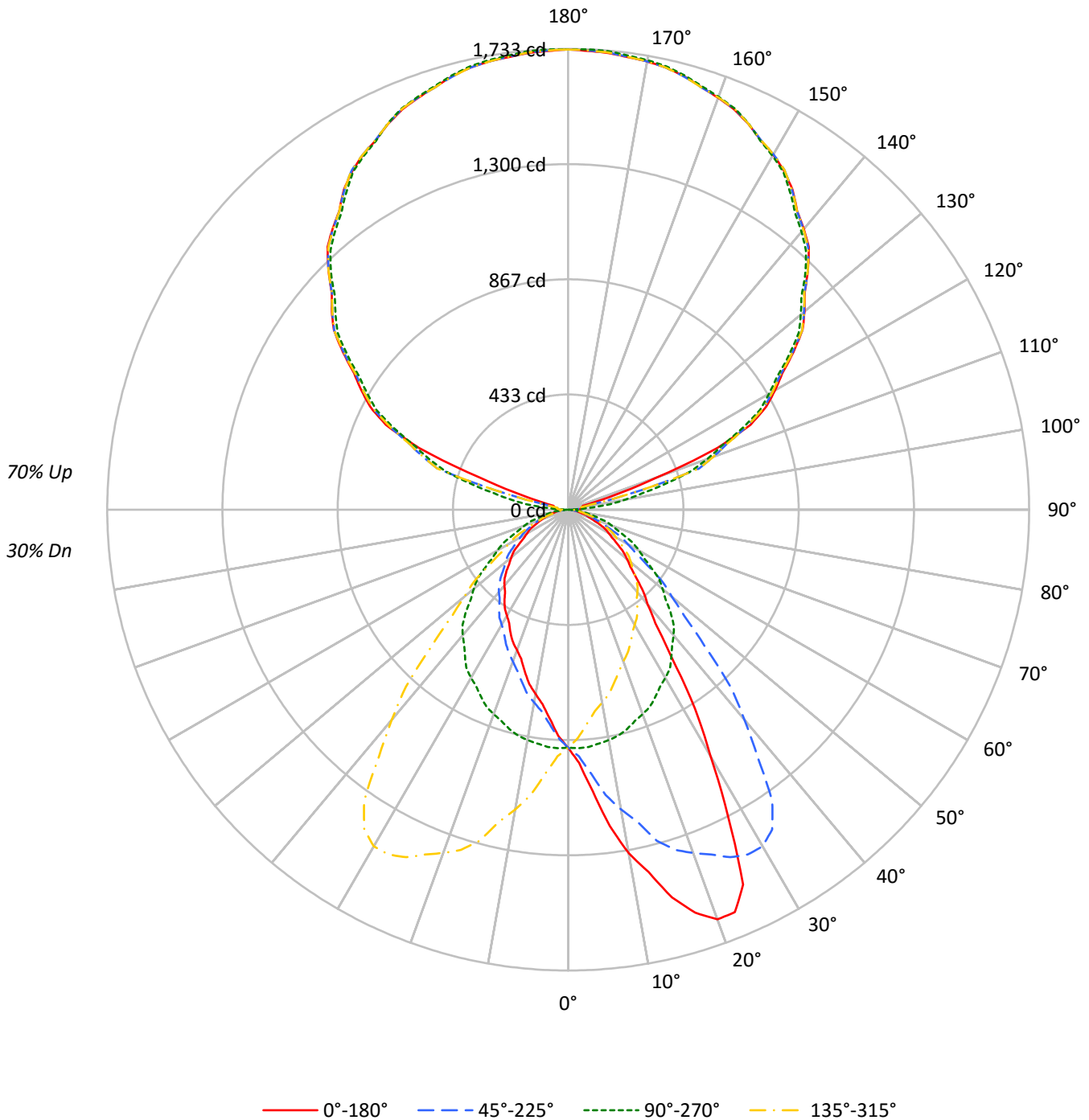
Input Watts (W): 53.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	38	38	38	30
1	94	90	86	83	84	80	77	75	64	62	60	48	47	46	34	33	32	26
2	85	79	73	68	76	71	66	62	56	53	50	43	40	39	30	29	28	22
3	78	69	62	57	70	62	57	52	50	46	42	38	35	33	27	25	24	19
4	72	61	54	48	64	55	49	44	44	40	36	34	31	28	24	22	21	17
5	66	55	47	41	59	50	43	38	40	35	31	30	27	25	22	20	18	15
6	60	49	41	36	54	44	38	33	36	31	27	28	24	22	20	18	16	13
7	56	44	37	31	50	40	34	29	32	28	24	25	22	19	18	16	15	12
8	52	40	33	28	46	36	30	26	30	25	21	23	20	17	17	15	13	11
9	48	37	29	25	43	33	27	23	27	22	19	21	18	15	16	13	12	10
10	45	33	27	22	40	30	24	20	25	20	17	19	16	14	14	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9630	9630	9630	9630
5°	11480	9672	8518	9672
10°	14335	9616	7695	9616
15°	16826	9518	7017	9518
20°	18778	9371	6441	9371
25°	18478	9216	6087	9216
30°	13282	9073	5722	9073
35°	8868	8888	5486	8888
40°	6534	8665	5243	8665
45°	5480	8273	5002	8273
50°	4836	7762	4669	7762
55°	4241	7174	4211	7174
60°	3776	6613	3860	6613
65°	3316	6008	3591	6008
70°	2603	5473	3279	5473
75°	2296	4779	2994	4779
80°	1996	4060	2944	4060
85°	1606	3260	3125	3260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	1.2
10°-20°	274.9	3.7
20°-30°	431.9	5.8
30°-40°	450.6	6.0
40°-50°	385.6	5.1
50°-60°	293.9	3.9
60°-70°	188.4	2.5
70°-80°	90.6	1.2
80°-90°	28.8	0.4
90°-100°	62.9	0.8
100°-110°	299.9	4.0
110°-120°	720.3	9.6
120°-130°	917.3	12.2
130°-140°	980.1	13.0
140°-150°	916.5	12.2
150°-160°	739.3	9.8
160°-170°	477.1	6.4
170°-180°	164.4	2.2
0°-30°	794.7	10.6
0°-40°	1245.3	16.6
0°-60°	1924.8	25.6
0°-90°	2232.6	29.7
90°-120°	1083.2	14.4
90°-150°	3897.1	51.9
90°-180°	5278.0	70.3
0°-180°	7510.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	895	895	895	895	895	
5°	1062	895	788	895	1062	110
15°	1510	854	630	854	1510	428
25°	1556	776	512	776	1556	669
35°	675	676	418	676	675	442
45°	360	544	329	544	360	283
55°	226	382	224	382	226	204
65°	130	236	141	236	130	128
75°	55	115	72	115	55	59
85°	13	26	25	26	13	16
90°	39	1	39	1	39	18
95°	49	78	49	78	49	41
105°	57	383	57	383	57	129
115°	756	719	756	719	756	699
125°	1034	1013	1034	1013	1034	923
135°	1274	1261	1274	1261	1274	983
145°	1470	1456	1470	1456	1470	917
155°	1601	1603	1601	1603	1601	738
165°	1687	1691	1687	1691	1687	476
175°	1724	1731	1724	1731	1724	164
180°	1731	1731	1731	1731	1731	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7
2.5°	952.9	954.2	950.2	949.6	945.0	943.8	943.8	937.3	933.3	928.1	925.1
5°	1062.5	1068.6	1065.6	1058.7	1047.2	1044.5	1037.2	1025.7	1012.7	996.6	989.0
7.5°	1199.3	1207.7	1204.4	1193.8	1181.8	1172.0	1151.5	1132.4	1105.7	1082.3	1062.2
10°	1311.5	1302.6	1295.8	1285.4	1274.3	1256.3	1234.9	1205.4	1171.3	1144.5	1114.6
12.5°	1395.4	1394.0	1385.2	1374.6	1358.9	1341.8	1315.4	1279.5	1239.9	1201.1	1167.0
15°	1509.9	1512.2	1506.4	1495.3	1473.1	1442.8	1403.0	1388.1	1331.4	1289.2	1247.1
17.5°	1589.1	1588.6	1587.8	1572.4	1549.8	1528.2	1491.3	1452.0	1400.7	1341.3	1284.6
20°	1639.3	1635.5	1636.3	1619.0	1602.2	1577.3	1541.3	1484.2	1442.1	1373.5	1314.9
22.5°	1638.1	1637.3	1640.2	1634.3	1622.1	1603.0	1574.7	1526.5	1472.7	1403.5	1337.6
25°	1555.8	1552.8	1570.8	1575.7	1595.3	1598.7	1590.3	1563.9	1512.9	1441.7	1360.1
27.5°	1302.1	1300.4	1333.8	1375.6	1428.7	1469.9	1509.7	1528.9	1512.9	1461.9	1380.2
30°	1068.6	1104.6	1121.5	1182.0	1249.4	1329.8	1400.3	1467.3	1483.8	1461.6	1394.6
32.5°	887.2	918.6	932.7	984.7	1047.5	1141.7	1247.4	1342.3	1409.4	1426.4	1386.0
35°	674.9	675.3	707.4	730.4	788.6	885.5	988.2	1115.3	1241.7	1337.5	1347.5
37.5°	538.5	540.4	559.9	582.8	626.5	677.7	768.1	873.8	1019.8	1166.8	1253.0
40°	465.0	468.4	483.0	505.6	537.0	575.7	646.2	745.7	867.5	1031.1	1164.8
42.5°	417.8	423.4	430.9	448.3	467.7	504.0	561.0	637.9	748.6	903.3	1057.5
45°	360.0	363.1	368.8	376.9	394.5	419.8	458.1	509.8	601.7	726.2	880.6
47.5°	317.6	316.0	322.0	328.6	340.3	357.5	383.2	425.4	491.0	590.8	721.8
50°	288.8	288.4	292.6	297.6	308.7	321.4	342.4	374.2	426.3	509.0	628.9
52.5°	261.8	263.3	266.3	272.5	280.5	290.7	309.6	332.5	377.3	448.7	548.6
55°	226.0	227.1	231.3	234.8	240.5	250.9	262.8	281.9	312.5	362.3	444.7
57.5°	195.6	195.1	199.2	200.0	206.5	214.9	224.1	239.0	261.2	298.2	353.7
60°	175.4	174.3	177.7	180.4	183.8	190.7	198.4	213.0	230.6	257.8	305.3
62.5°	157.0	156.5	159.0	161.7	164.5	170.8	177.3	188.4	202.4	225.3	263.0
65°	130.2	131.4	132.5	133.7	135.2	139.0	145.2	152.8	162.4	178.5	205.7
67.5°	102.3	103.5	103.9	106.2	109.5	111.9	115.7	122.5	129.2	142.7	158.2
70°	82.7	82.3	82.7	83.9	88.1	92.3	97.3	102.3	106.5	116.1	129.1
72.5°	71.1	70.4	71.4	71.6	73.7	74.8	78.0	82.7	88.1	94.6	104.0
75°	55.2	55.2	55.2	55.2	56.7	57.5	58.6	59.8	61.7	64.7	71.6
77.5°	40.8	40.8	41.4	41.7	42.1	42.5	43.2	44.4	45.0	46.7	49.6
80°	32.2	32.6	32.2	32.6	32.6	33.3	33.7	34.9	35.2	37.2	38.3
82.5°	24.2	24.0	24.2	24.6	24.6	25.4	25.4	26.3	26.4	27.3	28.5
85°	13.0	12.3	13.0	12.6	13.4	12.6	13.0	13.8	13.8	14.2	15.7
87.5°	10.8	11.3	10.6	10.7	10.6	10.8	10.5	10.3	10.7	10.2	9.7
90°	38.6	38.0	37.4	36.9	36.3	35.4	34.3	33.1	32.0	30.9	27.1
92.5°	42.7	42.3	42.0	41.7	41.3	40.2	38.4	36.6	34.7	32.9	30.1
95°	48.9	48.9	48.9	48.9	48.9	47.9	45.9	43.9	41.9	39.9	36.7
97.5°	53.0	52.7	52.4	52.1	51.8	50.5	48.3	46.0	43.7	41.4	38.0
100°	54.0	53.7	53.4	53.1	52.9	51.6	49.3	47.0	44.7	42.4	39.0
102.5°	55.0	54.5	54.0	53.5	53.0	51.6	49.3	47.0	44.7	42.4	39.0
105°	56.6	56.0	55.4	54.9	54.3	51.6	49.3	47.0	44.7	42.4	39.0
107.5°	177.7	215.8	253.9	292.1	330.2	367.8	404.9	442.0	479.0	516.1	512.1
110°	353.6	394.5	435.3	476.2	517.0	542.2	551.6	561.0	570.5	579.9	576.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	606.7	615.3	623.9	632.5	641.2	645.4	645.2	645.1	644.9	644.7	641.6
115°	756.1	754.9	753.8	752.6	751.5	749.5	746.6	743.8	740.9	738.1	735.5
117.5°	839.9	839.7	839.4	839.2	839.0	837.7	835.4	833.2	830.9	828.6	827.3
120°	897.5	897.5	897.5	897.5	897.5	896.4	894.1	891.8	889.5	887.2	886.4
122.5°	954.1	953.9	953.6	953.4	953.2	952.3	950.7	949.1	947.5	945.9	944.8
125°	1033.8	1033.2	1032.7	1032.1	1031.5	1030.9	1030.4	1029.8	1029.2	1028.7	1027.5
127.5°	1110.4	1111.0	1111.6	1112.2	1112.7	1112.6	1111.6	1110.7	1109.8	1108.9	1107.5
130°	1159.8	1160.4	1161.0	1161.5	1162.1	1161.8	1160.7	1159.5	1158.4	1157.2	1156.1
132.5°	1205.1	1205.9	1206.7	1207.5	1208.3	1208.1	1207.0	1205.8	1204.7	1203.5	1202.6
135°	1274.3	1275.1	1276.0	1276.8	1277.7	1277.7	1276.8	1276.0	1275.1	1274.3	1273.1
137.5°	1339.3	1339.9	1340.5	1341.0	1341.6	1341.2	1339.8	1338.5	1337.1	1335.7	1335.1
140°	1378.4	1379.0	1379.5	1380.1	1380.7	1380.4	1379.3	1378.1	1377.0	1375.8	1375.0
142.5°	1414.4	1415.2	1416.0	1416.8	1417.6	1417.6	1416.6	1415.7	1414.8	1413.9	1413.0
145°	1469.7	1469.7	1469.7	1469.7	1469.7	1469.4	1468.8	1468.3	1467.7	1467.1	1466.6
147.5°	1510.8	1512.2	1513.5	1514.8	1516.1	1516.5	1515.9	1515.3	1514.8	1514.2	1513.6
150°	1541.7	1542.6	1543.4	1544.3	1545.1	1545.3	1544.7	1544.1	1543.6	1543.0	1542.4
152.5°	1566.4	1567.7	1569.0	1570.3	1571.7	1571.8	1570.8	1569.7	1568.7	1567.7	1567.3
155°	1600.9	1602.6	1604.3	1606.0	1607.7	1607.9	1606.4	1605.0	1603.6	1602.1	1601.9
157.5°	1629.9	1632.1	1634.4	1636.6	1638.8	1639.1	1637.4	1635.7	1633.9	1632.2	1632.5
160°	1648.4	1650.4	1652.4	1654.4	1656.4	1656.6	1654.9	1653.1	1651.4	1649.7	1650.0
162.5°	1665.9	1667.7	1669.5	1671.2	1673.0	1672.9	1671.0	1669.0	1667.1	1665.1	1665.4
165°	1687.0	1689.0	1691.0	1693.0	1695.0	1694.9	1692.6	1690.3	1688.0	1685.7	1686.0
167.5°	1702.2	1704.5	1706.8	1709.0	1711.3	1711.3	1709.0	1706.8	1704.5	1702.2	1702.2
170°	1711.4	1713.7	1716.0	1718.3	1720.6	1720.6	1718.3	1716.0	1713.7	1711.4	1711.4
172.5°	1716.6	1719.1	1721.6	1724.1	1726.6	1726.8	1724.5	1722.2	1719.9	1717.6	1717.4
175°	1724.3	1726.6	1728.9	1731.2	1733.4	1733.6	1731.6	1729.6	1727.6	1725.6	1725.3
177.5°	1726.6	1728.9	1731.2	1733.5	1735.8	1736.0	1734.2	1732.3	1730.5	1728.7	1728.4
180°	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7
2.5°	923.8	922.9	918.6	913.7	907.3	903.0	899.6	897.8	892.3	885.5	880.9
5°	980.9	969.4	957.2	942.2	928.4	914.3	905.5	895.1	882.5	868.3	858.3
7.5°	1042.0	1019.5	995.2	970.2	945.4	923.2	903.6	886.8	866.7	846.4	832.1
10°	1088.9	1056.0	1021.9	987.0	955.2	925.4	902.4	879.8	855.7	832.3	814.7
12.5°	1131.5	1088.2	1048.9	1006.0	965.4	929.7	896.6	870.0	841.0	816.1	796.0
15°	1185.4	1141.0	1093.5	1028.4	974.4	929.2	889.0	854.1	818.9	788.3	768.7
17.5°	1235.8	1169.0	1105.2	1050.8	980.7	924.2	875.1	833.4	794.8	762.3	738.2
20°	1256.7	1192.0	1122.6	1053.3	984.4	921.2	864.1	818.1	777.9	741.1	718.9
22.5°	1269.2	1195.9	1122.9	1048.4	975.2	909.5	853.1	802.5	758.9	724.0	696.6
25°	1283.9	1196.5	1116.1	1042.6	967.9	896.6	829.6	776.0	728.9	691.7	662.6
27.5°	1293.5	1190.8	1095.7	1014.0	938.2	867.3	805.9	749.0	701.2	661.9	630.7
30°	1295.4	1186.2	1080.1	991.6	914.6	849.5	784.4	730.0	679.5	637.7	608.6
32.5°	1297.8	1174.9	1059.0	965.0	886.2	821.7	762.7	710.7	658.9	617.8	588.1
35°	1287.7	1168.6	1026.9	918.9	840.0	777.5	724.3	676.4	625.5	585.6	555.4
37.5°	1244.2	1143.7	993.6	866.9	784.4	726.6	683.2	641.5	594.8	551.8	523.3
40°	1200.4	1119.2	967.9	835.4	749.2	689.8	650.7	616.7	571.5	531.2	500.6
42.5°	1135.1	1085.8	943.4	802.3	709.3	652.1	619.2	587.2	547.6	506.7	477.9
45°	1015.4	1021.9	893.2	749.6	654.2	596.7	565.7	543.5	508.3	474.6	445.1
47.5°	865.2	926.1	834.3	693.4	596.1	542.1	515.0	495.6	471.9	438.8	411.9
50°	767.2	854.1	787.1	655.7	559.6	506.0	479.2	463.5	442.8	416.7	391.1
52.5°	676.8	770.2	730.1	613.7	520.1	471.0	444.8	431.9	415.5	391.0	367.8
55°	551.9	646.5	637.3	550.4	460.8	416.7	396.8	382.3	371.1	352.8	334.4
57.5°	446.4	536.1	540.9	479.9	408.5	365.0	347.9	336.9	329.6	315.8	298.8
60°	380.0	462.3	478.4	432.4	371.1	332.8	316.0	307.2	301.4	290.3	277.3
62.5°	324.8	394.9	413.1	380.0	335.3	299.4	286.3	277.8	273.9	264.3	252.8
65°	248.6	306.8	324.4	306.0	282.7	253.9	243.2	235.9	232.5	227.1	218.7
67.5°	186.9	229.4	248.7	235.7	227.3	209.1	202.3	198.4	195.3	191.7	184.6
70°	150.1	181.6	201.5	198.0	191.1	181.6	176.6	173.9	170.8	167.8	161.6
72.5°	120.7	142.3	161.0	162.8	157.1	155.2	150.8	149.7	147.8	144.2	140.8
75°	80.1	95.0	108.0	113.0	115.3	117.2	115.3	114.9	114.5	111.5	109.5
77.5°	52.5	60.5	68.7	77.2	80.8	83.4	84.0	85.4	84.4	82.8	81.9
80°	40.2	42.1	47.9	55.2	60.9	63.2	64.7	65.5	65.1	64.7	63.2
82.5°	29.2	30.8	33.5	38.6	43.4	47.3	48.2	48.0	48.9	49.1	47.9
85°	15.7	16.1	16.9	17.6	20.3	24.5	25.7	26.4	27.2	27.2	24.9
87.5°	9.6	8.5	8.4	7.8	8.1	7.8	9.1	10.1	10.9	10.3	10.9
90°	23.4	19.7	16.0	12.7	9.9	7.0	4.1	1.3	4.1	7.0	9.9
92.5°	27.3	24.5	21.7	20.7	21.5	22.3	23.1	23.9	23.1	22.3	21.5
95°	33.6	30.4	27.3	31.6	43.3	55.0	66.7	78.4	66.7	55.0	43.3
97.5°	82.6	103.1	123.7	136.6	141.9	147.1	152.4	157.6	152.4	147.1	141.9
100°	131.6	176.2	220.7	240.2	234.4	228.7	223.0	217.3	223.0	228.7	234.4
102.5°	182.0	230.7	279.4	301.7	297.5	293.4	289.3	285.2	289.3	293.4	297.5
105°	333.0	358.7	384.5	395.7	392.6	389.5	386.3	383.2	386.3	389.5	392.6
107.5°	508.0	504.0	499.9	496.6	494.1	491.6	489.1	486.6	489.1	491.6	494.1
110°	573.6	570.5	567.3	564.6	562.3	560.0	557.8	555.5	557.8	560.0	562.3



TEST NUMBER: P332422

CATALOG NUMBER: S123RDIW-S560D1320U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	638.4	635.3	632.1	629.5	627.5	625.4	623.4	621.3	623.4	625.4	627.5
115°	732.9	730.3	727.8	725.6	723.9	722.2	720.5	718.8	720.5	722.2	723.9
117.5°	826.0	824.6	823.3	821.6	819.5	817.4	815.3	813.2	815.3	817.4	819.5
120°	885.5	884.6	883.8	882.1	879.5	876.9	874.4	871.8	874.4	876.9	879.5
122.5°	943.7	942.6	941.5	939.9	937.8	935.7	933.6	931.5	933.6	935.7	937.8
125°	1026.4	1025.2	1024.1	1022.4	1020.1	1017.8	1015.5	1013.2	1015.5	1017.8	1020.1
127.5°	1106.2	1104.8	1103.4	1101.6	1099.3	1097.0	1094.7	1092.4	1094.7	1097.0	1099.3
130°	1155.0	1153.8	1152.7	1151.0	1148.7	1146.4	1144.1	1141.8	1144.1	1146.4	1148.7
132.5°	1201.7	1200.8	1199.9	1198.3	1196.0	1193.7	1191.4	1189.1	1191.4	1193.7	1196.0
135°	1272.0	1270.8	1269.7	1268.3	1266.5	1264.8	1263.1	1261.4	1263.1	1264.8	1266.5
137.5°	1334.5	1333.8	1333.2	1331.8	1329.6	1327.5	1325.3	1323.1	1325.3	1327.5	1329.6
140°	1374.1	1373.3	1372.4	1371.1	1369.4	1367.7	1366.0	1364.3	1366.0	1367.7	1369.4
142.5°	1412.2	1411.3	1410.5	1409.2	1407.5	1405.8	1404.0	1402.3	1404.0	1405.8	1407.5
145°	1466.0	1465.4	1464.8	1463.6	1461.6	1459.6	1457.6	1455.6	1457.6	1459.6	1461.6
147.5°	1513.0	1512.5	1511.9	1511.0	1509.6	1508.3	1507.0	1505.7	1507.0	1508.3	1509.6
150°	1541.8	1541.3	1540.7	1540.0	1539.1	1538.3	1537.4	1536.6	1537.4	1538.3	1539.1
152.5°	1567.0	1566.7	1566.3	1565.9	1565.5	1565.1	1564.7	1564.3	1564.7	1565.1	1565.5
155°	1601.6	1601.3	1601.0	1601.1	1601.7	1602.3	1602.9	1603.4	1602.9	1602.3	1601.7
157.5°	1632.8	1633.1	1633.4	1633.5	1633.6	1633.7	1633.7	1633.8	1633.7	1633.7	1633.6
160°	1650.3	1650.6	1650.9	1651.1	1651.4	1651.7	1652.0	1652.3	1652.0	1651.7	1651.4
162.5°	1665.7	1666.0	1666.3	1666.8	1667.5	1668.3	1669.0	1669.8	1669.0	1668.3	1667.5
165°	1686.3	1686.6	1686.9	1687.4	1688.3	1689.1	1690.0	1690.9	1690.0	1689.1	1688.3
167.5°	1702.2	1702.2	1702.2	1702.7	1703.9	1705.0	1706.2	1707.3	1706.2	1705.0	1703.9
170°	1711.4	1711.4	1711.4	1712.0	1713.2	1714.3	1715.4	1716.6	1715.4	1714.3	1713.2
172.5°	1717.2	1716.9	1716.7	1717.3	1718.6	1720.0	1721.4	1722.8	1721.4	1720.0	1718.6
175°	1725.0	1724.7	1724.4	1725.0	1726.4	1727.9	1729.3	1730.7	1729.3	1727.9	1726.4
177.5°	1728.2	1728.0	1727.8	1728.2	1729.4	1730.5	1731.6	1732.8	1731.6	1730.5	1729.4
180°	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7



TEST NUMBER: P332422

CATALOG NUMBER: S123RDIW-S560D1320U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7
2.5°	879.4	875.4	872.7	866.5	862.6	858.3	854.0	856.7	856.4	856.1	856.1
5°	849.9	841.1	833.1	822.7	816.2	808.2	802.0	801.3	802.8	797.4	794.4
7.5°	820.7	808.6	797.2	785.8	773.7	764.0	758.0	755.2	751.3	748.0	744.5
10°	800.1	786.0	774.8	760.7	747.7	736.2	728.9	723.9	721.2	718.5	713.6
12.5°	779.0	765.1	750.9	734.9	722.5	709.2	703.8	698.2	693.0	690.0	683.2
15°	748.0	730.0	715.1	698.2	684.5	671.4	663.8	652.7	651.1	647.3	640.4
17.5°	717.0	697.5	676.9	664.4	648.8	635.3	623.6	619.9	608.9	604.8	598.8
20°	692.5	674.5	658.8	642.3	619.7	607.1	597.9	592.9	584.1	578.7	574.9
22.5°	671.4	653.0	634.9	615.7	597.0	582.9	576.1	568.4	563.6	556.1	551.9
25°	641.2	621.3	599.4	578.7	565.3	554.6	543.9	537.0	530.1	526.6	519.0
27.5°	606.1	585.3	564.9	549.2	532.7	522.1	512.4	506.3	498.0	492.2	488.0
30°	586.8	562.3	544.7	530.5	509.4	499.5	492.2	484.5	478.4	472.3	468.0
32.5°	564.4	542.0	525.3	507.8	491.6	480.8	471.3	464.6	459.4	453.6	449.4
35°	529.3	510.6	493.3	475.7	463.8	452.7	441.6	435.9	430.9	425.5	421.7
37.5°	497.6	480.1	463.7	447.0	432.3	423.2	414.3	409.9	403.2	399.6	395.7
40°	478.0	460.8	443.2	427.1	411.7	404.9	396.8	390.3	384.2	381.5	377.3
42.5°	456.6	439.3	424.5	407.1	394.6	385.2	377.8	370.7	366.1	362.2	359.8
45°	424.8	409.4	394.9	377.7	365.8	357.7	349.3	342.8	338.6	335.9	331.7
47.5°	393.9	378.6	363.8	348.8	337.3	328.1	319.7	315.1	309.6	306.3	303.4
50°	371.5	357.7	342.0	328.2	316.8	307.6	300.7	294.9	289.9	285.7	283.8
52.5°	351.0	336.3	322.7	309.9	297.8	287.3	281.1	275.0	271.3	266.4	264.2
55°	317.1	303.0	291.5	278.8	267.0	258.2	250.5	245.1	241.3	235.9	232.9
57.5°	285.3	272.6	258.9	248.0	235.7	228.3	221.9	214.6	210.0	205.8	202.8
60°	263.9	249.3	237.5	227.1	216.4	206.8	201.1	195.3	190.4	186.1	183.5
62.5°	241.5	228.8	217.6	206.3	196.5	188.1	181.5	176.6	172.3	169.6	166.9
65°	207.2	197.3	185.8	176.6	167.4	161.3	155.9	151.7	148.6	146.7	144.4
67.5°	175.7	166.0	156.0	146.9	140.8	136.1	132.6	129.0	127.5	125.0	123.5
70°	155.1	145.2	136.4	129.5	123.3	119.9	117.6	114.9	113.4	110.3	108.8
72.5°	132.8	125.6	119.2	113.5	108.6	105.5	102.6	99.3	96.8	93.5	91.9
75°	104.6	98.1	93.1	89.2	86.2	82.0	77.8	74.3	73.2	72.0	71.6
77.5°	77.4	73.3	69.7	66.5	62.7	59.6	58.7	57.9	57.7	57.1	57.1
80°	60.9	57.1	54.4	50.6	48.3	48.3	48.3	47.5	47.9	47.9	47.9
82.5°	45.3	41.7	40.3	38.9	38.5	38.8	38.8	38.9	38.7	39.3	39.0
85°	23.4	23.7	24.5	24.1	24.5	24.5	25.3	24.9	25.3	24.5	25.3
87.5°	11.1	12.7	13.7	14.8	15.8	16.3	16.8	17.0	17.6	17.8	18.0
90°	12.7	16.0	19.7	23.4	27.1	30.9	32.0	33.1	34.3	35.4	36.3
92.5°	20.7	21.7	24.5	27.3	30.1	32.9	34.7	36.6	38.4	40.2	41.3
95°	31.6	27.3	30.4	33.6	36.7	39.9	41.9	43.9	45.9	47.9	48.9
97.5°	136.6	123.7	103.1	82.6	62.0	41.4	43.7	46.0	48.3	50.5	51.8
100°	240.2	220.7	176.2	131.6	87.0	42.4	44.7	47.0	49.3	51.6	52.9
102.5°	301.7	279.4	230.7	182.0	133.3	84.6	77.5	70.4	63.3	56.3	53.0
105°	395.7	384.5	358.7	333.0	307.3	281.6	231.0	180.4	129.9	79.3	54.3
107.5°	496.6	499.9	504.0	508.0	512.1	516.1	479.0	442.0	404.9	367.8	330.2
110°	564.6	567.3	570.5	573.6	576.8	579.9	570.5	561.0	551.6	542.2	517.0



TEST NUMBER: P332422

CATALOG NUMBER: S123RDIW-S560D1320U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	629.5	632.1	635.3	638.4	641.6	644.7	644.9	645.1	645.2	645.4	641.2
115°	725.6	727.8	730.3	732.9	735.5	738.1	740.9	743.8	746.6	749.5	751.5
117.5°	821.6	823.3	824.6	826.0	827.3	828.6	830.9	833.2	835.4	837.7	839.0
120°	882.1	883.8	884.6	885.5	886.4	887.2	889.5	891.8	894.1	896.4	897.5
122.5°	939.9	941.5	942.6	943.7	944.8	945.9	947.5	949.1	950.7	952.3	953.2
125°	1022.4	1024.1	1025.2	1026.4	1027.5	1028.7	1029.2	1029.8	1030.4	1030.9	1031.5
127.5°	1101.6	1103.4	1104.8	1106.2	1107.5	1108.9	1109.8	1110.7	1111.6	1112.6	1112.7
130°	1151.0	1152.7	1153.8	1155.0	1156.1	1157.2	1158.4	1159.5	1160.7	1161.8	1162.1
132.5°	1198.3	1199.9	1200.8	1201.7	1202.6	1203.5	1204.7	1205.8	1207.0	1208.1	1208.3
135°	1268.3	1269.7	1270.8	1272.0	1273.1	1274.3	1275.1	1276.0	1276.8	1277.7	1277.7
137.5°	1331.8	1333.2	1333.8	1334.5	1335.1	1335.7	1337.1	1338.5	1339.8	1341.2	1341.6
140°	1371.1	1372.4	1373.3	1374.1	1375.0	1375.8	1377.0	1378.1	1379.3	1380.4	1380.7
142.5°	1409.2	1410.5	1411.3	1412.2	1413.0	1413.9	1414.8	1415.7	1416.6	1417.6	1417.6
145°	1463.6	1464.8	1465.4	1466.0	1466.6	1467.1	1467.7	1468.3	1468.8	1469.4	1469.7
147.5°	1511.0	1511.9	1512.5	1513.0	1513.6	1514.2	1514.8	1515.3	1515.9	1516.5	1516.1
150°	1540.0	1540.7	1541.3	1541.8	1542.4	1543.0	1543.6	1544.1	1544.7	1545.3	1545.1
152.5°	1565.9	1566.3	1566.7	1567.0	1567.3	1567.7	1568.7	1569.7	1570.8	1571.8	1571.7
155°	1601.1	1601.0	1601.3	1601.6	1601.9	1602.1	1603.6	1605.0	1606.4	1607.9	1607.7
157.5°	1633.5	1633.4	1633.1	1632.8	1632.5	1632.2	1633.9	1635.7	1637.4	1639.1	1638.8
160°	1651.1	1650.9	1650.6	1650.3	1650.0	1649.7	1651.4	1653.1	1654.9	1656.6	1656.4
162.5°	1666.8	1666.3	1666.0	1665.7	1665.4	1665.1	1667.1	1669.0	1671.0	1672.9	1673.0
165°	1687.4	1686.9	1686.6	1686.3	1686.0	1685.7	1688.0	1690.3	1692.6	1694.9	1695.0
167.5°	1702.7	1702.2	1702.2	1702.2	1702.2	1702.2	1704.5	1706.8	1709.0	1711.3	1711.3
170°	1712.0	1711.4	1711.4	1711.4	1711.4	1711.4	1713.7	1716.0	1718.3	1720.6	1720.6
172.5°	1717.3	1716.7	1716.9	1717.2	1717.4	1717.6	1719.9	1722.2	1724.5	1726.8	1726.6
175°	1725.0	1724.4	1724.7	1725.0	1725.3	1725.6	1727.6	1729.6	1731.6	1733.6	1733.4
177.5°	1728.2	1727.8	1728.0	1728.2	1728.4	1728.7	1730.5	1732.3	1734.2	1736.0	1735.8
180°	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7



TEST NUMBER: P332422

CATALOG NUMBER: S123RDIW-S560D1320U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7
2.5°	852.4	852.1	852.4	851.2	852.4	852.1	852.4	856.1	856.1	856.4	856.7
5°	793.2	792.8	791.7	788.3	791.7	792.8	793.2	794.4	797.4	802.8	801.3
7.5°	741.5	741.0	737.6	737.7	737.6	741.0	741.5	744.5	748.0	751.3	755.2
10°	710.9	711.3	706.7	704.0	706.7	711.3	710.9	713.6	718.5	721.2	723.9
12.5°	681.2	679.4	675.7	672.7	675.7	679.4	681.2	683.2	690.0	693.0	698.2
15°	641.9	638.1	628.9	629.7	628.9	638.1	641.9	640.4	647.3	651.1	652.7
17.5°	595.7	592.9	592.8	587.4	592.8	592.9	595.7	598.8	604.8	608.9	619.9
20°	568.8	566.9	567.6	562.3	567.6	566.9	568.8	574.9	578.7	584.1	592.9
22.5°	547.6	545.7	542.5	540.8	542.5	545.7	547.6	551.9	556.1	563.6	568.4
25°	516.7	513.6	510.6	512.5	510.6	513.6	516.7	519.0	526.6	530.1	537.0
27.5°	485.7	483.4	480.4	480.0	480.4	483.4	485.7	488.0	492.2	498.0	506.3
30°	466.1	463.8	462.3	460.4	462.3	463.8	466.1	468.0	472.3	478.4	484.5
32.5°	446.2	445.8	443.0	442.6	443.0	445.8	446.2	449.4	453.6	459.4	464.6
35°	420.2	417.9	417.1	417.5	417.1	417.9	420.2	421.7	425.5	430.9	435.9
37.5°	395.4	392.4	391.0	389.6	391.0	392.4	395.4	395.7	399.6	403.2	409.9
40°	377.7	374.6	373.8	373.1	373.8	374.6	377.7	377.3	381.5	384.2	390.3
42.5°	357.7	356.5	356.1	354.7	356.1	356.5	357.7	359.8	362.2	366.1	370.7
45°	330.5	330.2	327.9	328.6	327.9	330.2	330.5	331.7	335.9	338.6	342.8
47.5°	301.9	300.2	298.6	299.7	298.6	300.2	301.9	303.4	306.3	309.6	315.1
50°	282.3	281.5	278.1	278.8	278.1	281.5	282.3	283.8	285.7	289.9	294.9
52.5°	262.7	259.8	258.5	258.0	258.5	259.8	262.7	264.2	266.4	271.3	275.0
55°	230.2	226.7	225.2	224.4	225.2	226.7	230.2	232.9	235.9	241.3	245.1
57.5°	198.3	197.4	196.2	197.0	196.2	197.4	198.3	202.8	205.8	210.0	214.6
60°	179.6	179.6	179.6	179.3	179.6	179.6	179.6	183.5	186.1	190.4	195.3
62.5°	165.2	164.3	164.0	164.5	164.0	164.3	165.2	166.9	169.6	172.3	176.6
65°	143.2	142.9	141.3	141.0	141.3	142.9	143.2	144.4	146.7	148.6	151.7
67.5°	122.5	121.1	120.7	120.1	120.7	121.1	122.5	123.5	125.0	127.5	129.0
70°	106.9	106.1	103.8	104.2	103.8	106.1	106.9	108.8	110.3	113.4	114.9
72.5°	90.0	89.2	88.8	88.2	88.8	89.2	90.0	91.9	93.5	96.8	99.3
75°	71.2	70.9	70.5	72.0	70.5	70.9	71.2	71.6	72.0	73.2	74.3
77.5°	57.1	57.1	57.3	56.7	57.3	57.1	57.1	57.1	57.1	57.7	57.9
80°	47.9	47.9	47.5	47.5	47.5	47.9	47.9	47.9	47.9	47.9	47.5
82.5°	38.4	38.7	38.9	38.3	38.9	38.7	38.4	39.0	39.3	38.7	38.9
85°	25.3	24.9	25.7	25.3	25.7	24.9	25.3	25.3	24.5	25.3	24.9
87.5°	18.7	18.2	18.3	18.7	18.3	18.2	18.7	18.0	17.8	17.6	17.0
90°	36.9	37.4	38.0	38.6	38.0	37.4	36.9	36.3	35.4	34.3	33.1
92.5°	41.7	42.0	42.3	42.7	42.3	42.0	41.7	41.3	40.2	38.4	36.6
95°	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	47.9	45.9	43.9
97.5°	52.1	52.4	52.7	53.0	52.7	52.4	52.1	51.8	50.5	48.3	46.0
100°	53.1	53.4	53.7	54.0	53.7	53.4	53.1	52.9	51.6	49.3	47.0
102.5°	53.5	54.0	54.5	55.0	54.5	54.0	53.5	53.0	56.3	63.3	70.4
105°	54.9	55.4	56.0	56.6	56.0	55.4	54.9	54.3	79.3	129.9	180.4
107.5°	292.1	253.9	215.8	177.7	215.8	253.9	292.1	330.2	367.8	404.9	442.0
110°	476.2	435.3	394.5	353.6	394.5	435.3	476.2	517.0	542.2	551.6	561.0



TEST NUMBER: P332422

CATALOG NUMBER: S123RDIW-S560D1320U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	632.5	623.9	615.3	606.7	615.3	623.9	632.5	641.2	645.4	645.2	645.1
115°	752.6	753.8	754.9	756.1	754.9	753.8	752.6	751.5	749.5	746.6	743.8
117.5°	839.2	839.4	839.7	839.9	839.7	839.4	839.2	839.0	837.7	835.4	833.2
120°	897.5	897.5	897.5	897.5	897.5	897.5	897.5	897.5	896.4	894.1	891.8
122.5°	953.4	953.6	953.9	954.1	953.9	953.6	953.4	953.2	952.3	950.7	949.1
125°	1032.1	1032.7	1033.2	1033.8	1033.2	1032.7	1032.1	1031.5	1030.9	1030.4	1029.8
127.5°	1112.2	1111.6	1111.0	1110.4	1111.0	1111.6	1112.2	1112.7	1112.6	1111.6	1110.7
130°	1161.5	1161.0	1160.4	1159.8	1160.4	1161.0	1161.5	1162.1	1161.8	1160.7	1159.5
132.5°	1207.5	1206.7	1205.9	1205.1	1205.9	1206.7	1207.5	1208.3	1208.1	1207.0	1205.8
135°	1276.8	1276.0	1275.1	1274.3	1275.1	1276.0	1276.8	1277.7	1277.7	1276.8	1276.0
137.5°	1341.0	1340.5	1339.9	1339.3	1339.9	1340.5	1341.0	1341.6	1341.2	1339.8	1338.5
140°	1380.1	1379.5	1379.0	1378.4	1379.0	1379.5	1380.1	1380.7	1380.4	1379.3	1378.1
142.5°	1416.8	1416.0	1415.2	1414.4	1415.2	1416.0	1416.8	1417.6	1417.6	1416.6	1415.7
145°	1469.7	1469.7	1469.7	1469.7	1469.7	1469.7	1469.7	1469.7	1469.4	1468.8	1468.3
147.5°	1514.8	1513.5	1512.2	1510.8	1512.2	1513.5	1514.8	1516.1	1516.5	1515.9	1515.3
150°	1544.3	1543.4	1542.6	1541.7	1542.6	1543.4	1544.3	1545.1	1545.3	1544.7	1544.1
152.5°	1570.3	1569.0	1567.7	1566.4	1567.7	1569.0	1570.3	1571.7	1571.8	1570.8	1569.7
155°	1606.0	1604.3	1602.6	1600.9	1602.6	1604.3	1606.0	1607.7	1607.9	1606.4	1605.0
157.5°	1636.6	1634.4	1632.1	1629.9	1632.1	1634.4	1636.6	1638.8	1639.1	1637.4	1635.7
160°	1654.4	1652.4	1650.4	1648.4	1650.4	1652.4	1654.4	1656.4	1656.6	1654.9	1653.1
162.5°	1671.2	1669.5	1667.7	1665.9	1667.7	1669.5	1671.2	1673.0	1672.9	1671.0	1669.0
165°	1693.0	1691.0	1689.0	1687.0	1689.0	1691.0	1693.0	1695.0	1694.9	1692.6	1690.3
167.5°	1709.0	1706.8	1704.5	1702.2	1704.5	1706.8	1709.0	1711.3	1711.3	1709.0	1706.8
170°	1718.3	1716.0	1713.7	1711.4	1713.7	1716.0	1718.3	1720.6	1720.6	1718.3	1716.0
172.5°	1724.1	1721.6	1719.1	1716.6	1719.1	1721.6	1724.1	1726.6	1726.8	1724.5	1722.2
175°	1731.2	1728.9	1726.6	1724.3	1726.6	1728.9	1731.2	1733.4	1733.6	1731.6	1729.6
177.5°	1733.5	1731.2	1728.9	1726.6	1728.9	1731.2	1733.5	1735.8	1736.0	1734.2	1732.3
180°	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7



TEST NUMBER: P332422

CATALOG NUMBER: S123RDIW-S560D1320U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7
2.5°	854.0	858.3	862.6	866.5	872.7	875.4	879.4	880.9	885.5	892.3	897.8
5°	802.0	808.2	816.2	822.7	833.1	841.1	849.9	858.3	868.3	882.5	895.1
7.5°	758.0	764.0	773.7	785.8	797.2	808.6	820.7	832.1	846.4	866.7	886.8
10°	728.9	736.2	747.7	760.7	774.8	786.0	800.1	814.7	832.3	855.7	879.8
12.5°	703.8	709.2	722.5	734.9	750.9	765.1	779.0	796.0	816.1	841.0	870.0
15°	663.8	671.4	684.5	698.2	715.1	730.0	748.0	768.7	788.3	818.9	854.1
17.5°	623.6	635.3	648.8	664.4	676.9	697.5	717.0	738.2	762.3	794.8	833.4
20°	597.9	607.1	619.7	642.3	658.8	674.5	692.5	718.9	741.1	777.9	818.1
22.5°	576.1	582.9	597.0	615.7	634.9	653.0	671.4	696.6	724.0	758.9	802.5
25°	543.9	554.6	565.3	578.7	599.4	621.3	641.2	662.6	691.7	728.9	776.0
27.5°	512.4	522.1	532.7	549.2	564.9	585.3	606.1	630.7	661.9	701.2	749.0
30°	492.2	499.5	509.4	530.5	544.7	562.3	586.8	608.6	637.7	679.5	730.0
32.5°	471.3	480.8	491.6	507.8	525.3	542.0	564.4	588.1	617.8	658.9	710.7
35°	441.6	452.7	463.8	475.7	493.3	510.6	529.3	555.4	585.6	625.5	676.4
37.5°	414.3	423.2	432.3	447.0	463.7	480.1	497.6	523.3	551.8	594.8	641.5
40°	396.8	404.9	411.7	427.1	443.2	460.8	478.0	500.6	531.2	571.5	616.7
42.5°	377.8	385.2	394.6	407.1	424.5	439.3	456.6	477.9	506.7	547.6	587.2
45°	349.3	357.7	365.8	377.7	394.9	409.4	424.8	445.1	474.6	508.3	543.5
47.5°	319.7	328.1	337.3	348.8	363.8	378.6	393.9	411.9	438.8	471.9	495.6
50°	300.7	307.6	316.8	328.2	342.0	357.7	371.5	391.1	416.7	442.8	463.5
52.5°	281.1	287.3	297.8	309.9	322.7	336.3	351.0	367.8	391.0	415.5	431.9
55°	250.5	258.2	267.0	278.8	291.5	303.0	317.1	334.4	352.8	371.1	382.3
57.5°	221.9	228.3	235.7	248.0	258.9	272.6	285.3	298.8	315.8	329.6	336.9
60°	201.1	206.8	216.4	227.1	237.5	249.3	263.9	277.3	290.3	301.4	307.2
62.5°	181.5	188.1	196.5	206.3	217.6	228.8	241.5	252.8	264.3	273.9	277.8
65°	155.9	161.3	167.4	176.6	185.8	197.3	207.2	218.7	227.1	232.5	235.9
67.5°	132.6	136.1	140.8	146.9	156.0	166.0	175.7	184.6	191.7	195.3	198.4
70°	117.6	119.9	123.3	129.5	136.4	145.2	155.1	161.6	167.8	170.8	173.9
72.5°	102.6	105.5	108.6	113.5	119.2	125.6	132.8	140.8	144.2	147.8	149.7
75°	77.8	82.0	86.2	89.2	93.1	98.1	104.6	109.5	111.5	114.5	114.9
77.5°	58.7	59.6	62.7	66.5	69.7	73.3	77.4	81.9	82.8	84.4	85.4
80°	48.3	48.3	48.3	50.6	54.4	57.1	60.9	63.2	64.7	65.1	65.5
82.5°	38.8	38.8	38.5	38.9	40.3	41.7	45.3	47.9	49.1	48.9	48.0
85°	25.3	24.5	24.5	24.1	24.5	23.7	23.4	24.9	27.2	27.2	26.4
87.5°	16.8	16.3	15.8	14.8	13.7	12.7	11.1	10.9	10.3	10.9	10.1
90°	32.0	30.9	27.1	23.4	19.7	16.0	12.7	9.9	7.0	4.1	1.3
92.5°	34.7	32.9	30.1	27.3	24.5	21.7	20.7	21.5	22.3	23.1	23.9
95°	41.9	39.9	36.7	33.6	30.4	27.3	31.6	43.3	55.0	66.7	78.4
97.5°	43.7	41.4	62.0	82.6	103.1	123.7	136.6	141.9	147.1	152.4	157.6
100°	44.7	42.4	87.0	131.6	176.2	220.7	240.2	234.4	228.7	223.0	217.3
102.5°	77.5	84.6	133.3	182.0	230.7	279.4	301.7	297.5	293.4	289.3	285.2
105°	231.0	281.6	307.3	333.0	358.7	384.5	395.7	392.6	389.5	386.3	383.2
107.5°	479.0	516.1	512.1	508.0	504.0	499.9	496.6	494.1	491.6	489.1	486.6
110°	570.5	579.9	576.8	573.6	570.5	567.3	564.6	562.3	560.0	557.8	555.5



TEST NUMBER: P332422

CATALOG NUMBER: S123RDIW-S560D1320U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	644.9	644.7	641.6	638.4	635.3	632.1	629.5	627.5	625.4	623.4	621.3
115°	740.9	738.1	735.5	732.9	730.3	727.8	725.6	723.9	722.2	720.5	718.8
117.5°	830.9	828.6	827.3	826.0	824.6	823.3	821.6	819.5	817.4	815.3	813.2
120°	889.5	887.2	886.4	885.5	884.6	883.8	882.1	879.5	876.9	874.4	871.8
122.5°	947.5	945.9	944.8	943.7	942.6	941.5	939.9	937.8	935.7	933.6	931.5
125°	1029.2	1028.7	1027.5	1026.4	1025.2	1024.1	1022.4	1020.1	1017.8	1015.5	1013.2
127.5°	1109.8	1108.9	1107.5	1106.2	1104.8	1103.4	1101.6	1099.3	1097.0	1094.7	1092.4
130°	1158.4	1157.2	1156.1	1155.0	1153.8	1152.7	1151.0	1148.7	1146.4	1144.1	1141.8
132.5°	1204.7	1203.5	1202.6	1201.7	1200.8	1199.9	1198.3	1196.0	1193.7	1191.4	1189.1
135°	1275.1	1274.3	1273.1	1272.0	1270.8	1269.7	1268.3	1266.5	1264.8	1263.1	1261.4
137.5°	1337.1	1335.7	1335.1	1334.5	1333.8	1333.2	1331.8	1329.6	1327.5	1325.3	1323.1
140°	1377.0	1375.8	1375.0	1374.1	1373.3	1372.4	1371.1	1369.4	1367.7	1366.0	1364.3
142.5°	1414.8	1413.9	1413.0	1412.2	1411.3	1410.5	1409.2	1407.5	1405.8	1404.0	1402.3
145°	1467.7	1467.1	1466.6	1466.0	1465.4	1464.8	1463.6	1461.6	1459.6	1457.6	1455.6
147.5°	1514.8	1514.2	1513.6	1513.0	1512.5	1511.9	1511.0	1509.6	1508.3	1507.0	1505.7
150°	1543.6	1543.0	1542.4	1541.8	1541.3	1540.7	1540.0	1539.1	1538.3	1537.4	1536.6
152.5°	1568.7	1567.7	1567.3	1567.0	1566.7	1566.3	1565.9	1565.5	1565.1	1564.7	1564.3
155°	1603.6	1602.1	1601.9	1601.6	1601.3	1601.0	1601.1	1601.7	1602.3	1602.9	1603.4
157.5°	1633.9	1632.2	1632.5	1632.8	1633.1	1633.4	1633.5	1633.6	1633.7	1633.7	1633.8
160°	1651.4	1649.7	1650.0	1650.3	1650.6	1650.9	1651.1	1651.4	1651.7	1652.0	1652.3
162.5°	1667.1	1665.1	1665.4	1665.7	1666.0	1666.3	1666.8	1667.5	1668.3	1669.0	1669.8
165°	1688.0	1685.7	1686.0	1686.3	1686.6	1686.9	1687.4	1688.3	1689.1	1690.0	1690.9
167.5°	1704.5	1702.2	1702.2	1702.2	1702.2	1702.2	1702.7	1703.9	1705.0	1706.2	1707.3
170°	1713.7	1711.4	1711.4	1711.4	1711.4	1711.4	1712.0	1713.2	1714.3	1715.4	1716.6
172.5°	1719.9	1717.6	1717.4	1717.2	1716.9	1716.7	1717.3	1718.6	1720.0	1721.4	1722.8
175°	1727.6	1725.6	1725.3	1725.0	1724.7	1724.4	1725.0	1726.4	1727.9	1729.3	1730.7
177.5°	1730.5	1728.7	1728.4	1728.2	1728.0	1727.8	1728.2	1729.4	1730.5	1731.6	1732.8
180°	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7



TEST NUMBER: P332422

CATALOG NUMBER: S123RDIW-S560D1320U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7
2.5°	899.6	903.0	907.3	913.7	918.6	922.9	923.8	925.1	928.1	933.3	937.3
5°	905.5	914.3	928.4	942.2	957.2	969.4	980.9	989.0	996.6	1012.7	1025.7
7.5°	903.6	923.2	945.4	970.2	995.2	1019.5	1042.0	1062.2	1082.3	1105.7	1132.4
10°	902.4	925.4	955.2	987.0	1021.9	1056.0	1088.9	1114.6	1144.5	1171.3	1205.4
12.5°	896.6	929.7	965.4	1006.0	1048.9	1088.2	1131.5	1167.0	1201.1	1239.9	1279.5
15°	889.0	929.2	974.4	1028.4	1093.5	1141.0	1185.4	1247.1	1289.2	1331.4	1388.1
17.5°	875.1	924.2	980.7	1050.8	1105.2	1169.0	1235.8	1284.6	1341.3	1400.7	1452.0
20°	864.1	921.2	984.4	1053.3	1122.6	1192.0	1256.7	1314.9	1373.5	1442.1	1484.2
22.5°	853.1	909.5	975.2	1048.4	1122.9	1195.9	1269.2	1337.6	1403.5	1472.7	1526.5
25°	829.6	896.6	967.9	1042.6	1116.1	1196.5	1283.9	1360.1	1441.7	1512.9	1563.9
27.5°	805.9	867.3	938.2	1014.0	1095.7	1190.8	1293.5	1380.2	1461.9	1512.9	1528.9
30°	784.4	849.5	914.6	991.6	1080.1	1186.2	1295.4	1394.6	1461.6	1483.8	1467.3
32.5°	762.7	821.7	886.2	965.0	1059.0	1174.9	1297.8	1386.0	1426.4	1409.4	1342.3
35°	724.3	777.5	840.0	918.9	1026.9	1168.6	1287.7	1347.5	1337.5	1241.7	1115.3
37.5°	683.2	726.6	784.4	866.9	993.6	1143.7	1244.2	1253.0	1166.8	1019.8	873.8
40°	650.7	689.8	749.2	835.4	967.9	1119.2	1200.4	1164.8	1031.1	867.5	745.7
42.5°	619.2	652.1	709.3	802.3	943.4	1085.8	1135.1	1057.5	903.3	748.6	637.9
45°	565.7	596.7	654.2	749.6	893.2	1021.9	1015.4	880.6	726.2	601.7	509.8
47.5°	515.0	542.1	596.1	693.4	834.3	926.1	865.2	721.8	590.8	491.0	425.4
50°	479.2	506.0	559.6	655.7	787.1	854.1	767.2	628.9	509.0	426.3	374.2
52.5°	444.8	471.0	520.1	613.7	730.1	770.2	676.8	548.6	448.7	377.3	332.5
55°	396.8	416.7	460.8	550.4	637.3	646.5	551.9	444.7	362.3	312.5	281.9
57.5°	347.9	365.0	408.5	479.9	540.9	536.1	446.4	353.7	298.2	261.2	239.0
60°	316.0	332.8	371.1	432.4	478.4	462.3	380.0	305.3	257.8	230.6	213.0
62.5°	286.3	299.4	335.3	380.0	413.1	394.9	324.8	263.0	225.3	202.4	188.4
65°	243.2	253.9	282.7	306.0	324.4	306.8	248.6	205.7	178.5	162.4	152.8
67.5°	202.3	209.1	227.3	235.7	248.7	229.4	186.9	158.2	142.7	129.2	122.5
70°	176.6	181.6	191.1	198.0	201.5	181.6	150.1	129.1	116.1	106.5	102.3
72.5°	150.8	155.2	157.1	162.8	161.0	142.3	120.7	104.0	94.6	88.1	82.7
75°	115.3	117.2	115.3	113.0	108.0	95.0	80.1	71.6	64.7	61.7	59.8
77.5°	84.0	83.4	80.8	77.2	68.7	60.5	52.5	49.6	46.7	45.0	44.4
80°	64.7	63.2	60.9	55.2	47.9	42.1	40.2	38.3	37.2	35.2	34.9
82.5°	48.2	47.3	43.4	38.6	33.5	30.8	29.2	28.5	27.3	26.4	26.3
85°	25.7	24.5	20.3	17.6	16.9	16.1	15.7	15.7	14.2	13.8	13.8
87.5°	9.1	7.8	8.1	7.8	8.4	8.5	9.6	9.7	10.2	10.7	10.3
90°	4.1	7.0	9.9	12.7	16.0	19.7	23.4	27.1	30.9	32.0	33.1
92.5°	23.1	22.3	21.5	20.7	21.7	24.5	27.3	30.1	32.9	34.7	36.6
95°	66.7	55.0	43.3	31.6	27.3	30.4	33.6	36.7	39.9	41.9	43.9
97.5°	152.4	147.1	141.9	136.6	123.7	103.1	82.6	62.0	41.4	43.7	46.0
100°	223.0	228.7	234.4	240.2	220.7	176.2	131.6	87.0	42.4	44.7	47.0
102.5°	289.3	293.4	297.5	301.7	279.4	230.7	182.0	133.3	84.6	77.5	70.4
105°	386.3	389.5	392.6	395.7	384.5	358.7	333.0	307.3	281.6	231.0	180.4
107.5°	489.1	491.6	494.1	496.6	499.9	504.0	508.0	512.1	516.1	479.0	442.0
110°	557.8	560.0	562.3	564.6	567.3	570.5	573.6	576.8	579.9	570.5	561.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	623.4	625.4	627.5	629.5	632.1	635.3	638.4	641.6	644.7	644.9	645.1
115°	720.5	722.2	723.9	725.6	727.8	730.3	732.9	735.5	738.1	740.9	743.8
117.5°	815.3	817.4	819.5	821.6	823.3	824.6	826.0	827.3	828.6	830.9	833.2
120°	874.4	876.9	879.5	882.1	883.8	884.6	885.5	886.4	887.2	889.5	891.8
122.5°	933.6	935.7	937.8	939.9	941.5	942.6	943.7	944.8	945.9	947.5	949.1
125°	1015.5	1017.8	1020.1	1022.4	1024.1	1025.2	1026.4	1027.5	1028.7	1029.2	1029.8
127.5°	1094.7	1097.0	1099.3	1101.6	1103.4	1104.8	1106.2	1107.5	1108.9	1109.8	1110.7
130°	1144.1	1146.4	1148.7	1151.0	1152.7	1153.8	1155.0	1156.1	1157.2	1158.4	1159.5
132.5°	1191.4	1193.7	1196.0	1198.3	1199.9	1200.8	1201.7	1202.6	1203.5	1204.7	1205.8
135°	1263.1	1264.8	1266.5	1268.3	1269.7	1270.8	1272.0	1273.1	1274.3	1275.1	1276.0
137.5°	1325.3	1327.5	1329.6	1331.8	1333.2	1333.8	1334.5	1335.1	1335.7	1337.1	1338.5
140°	1366.0	1367.7	1369.4	1371.1	1372.4	1373.3	1374.1	1375.0	1375.8	1377.0	1378.1
142.5°	1404.0	1405.8	1407.5	1409.2	1410.5	1411.3	1412.2	1413.0	1413.9	1414.8	1415.7
145°	1457.6	1459.6	1461.6	1463.6	1464.8	1465.4	1466.0	1466.6	1467.1	1467.7	1468.3
147.5°	1507.0	1508.3	1509.6	1511.0	1511.9	1512.5	1513.0	1513.6	1514.2	1514.8	1515.3
150°	1537.4	1538.3	1539.1	1540.0	1540.7	1541.3	1541.8	1542.4	1543.0	1543.6	1544.1
152.5°	1564.7	1565.1	1565.5	1565.9	1566.3	1566.7	1567.0	1567.3	1567.7	1568.7	1569.7
155°	1602.9	1602.3	1601.7	1601.1	1601.0	1601.3	1601.6	1601.9	1602.1	1603.6	1605.0
157.5°	1633.7	1633.7	1633.6	1633.5	1633.4	1633.1	1632.8	1632.5	1632.2	1633.9	1635.7
160°	1652.0	1651.7	1651.4	1651.1	1650.9	1650.6	1650.3	1650.0	1649.7	1651.4	1653.1
162.5°	1669.0	1668.3	1667.5	1666.8	1666.3	1666.0	1665.7	1665.4	1665.1	1667.1	1669.0
165°	1690.0	1689.1	1688.3	1687.4	1686.9	1686.6	1686.3	1686.0	1685.7	1688.0	1690.3
167.5°	1706.2	1705.0	1703.9	1702.7	1702.2	1702.2	1702.2	1702.2	1702.2	1704.5	1706.8
170°	1715.4	1714.3	1713.2	1712.0	1711.4	1711.4	1711.4	1711.4	1711.4	1713.7	1716.0
172.5°	1721.4	1720.0	1718.6	1717.3	1716.7	1716.9	1717.2	1717.4	1717.6	1719.9	1722.2
175°	1729.3	1727.9	1726.4	1725.0	1724.4	1724.7	1725.0	1725.3	1725.6	1727.6	1729.6
177.5°	1731.6	1730.5	1729.4	1728.2	1727.8	1728.0	1728.2	1728.4	1728.7	1730.5	1732.3
180°	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	894.7	894.7	894.7	894.7	894.7	894.7	894.7
2.5°	943.8	943.8	945.0	949.6	950.2	954.2	952.9
5°	1037.2	1044.5	1047.2	1058.7	1065.6	1068.6	1062.5
7.5°	1151.5	1172.0	1181.8	1193.8	1204.4	1207.7	1199.3
10°	1234.9	1256.3	1274.3	1285.4	1295.8	1302.6	1311.5
12.5°	1315.4	1341.8	1358.9	1374.6	1385.2	1394.0	1395.4
15°	1403.0	1442.8	1473.1	1495.3	1506.4	1512.2	1509.9
17.5°	1491.3	1528.2	1549.8	1572.4	1587.8	1588.6	1589.1
20°	1541.3	1577.3	1602.2	1619.0	1636.3	1635.5	1639.3
22.5°	1574.7	1603.0	1622.1	1634.3	1640.2	1637.3	1638.1
25°	1590.3	1598.7	1595.3	1575.7	1570.8	1552.8	1555.8
27.5°	1509.7	1469.9	1428.7	1375.6	1333.8	1300.4	1302.1
30°	1400.3	1329.8	1249.4	1182.0	1121.5	1104.6	1068.6
32.5°	1247.4	1141.7	1047.5	984.7	932.7	918.6	887.2
35°	988.2	885.5	788.6	730.4	707.4	675.3	674.9
37.5°	768.1	677.7	626.5	582.8	559.9	540.4	538.5
40°	646.2	575.7	537.0	505.6	483.0	468.4	465.0
42.5°	561.0	504.0	467.7	448.3	430.9	423.4	417.8
45°	458.1	419.8	394.5	376.9	368.8	363.1	360.0
47.5°	383.2	357.5	340.3	328.6	322.0	316.0	317.6
50°	342.4	321.4	308.7	297.6	292.6	288.4	288.8
52.5°	309.6	290.7	280.5	272.5	266.3	263.3	261.8
55°	262.8	250.9	240.5	234.8	231.3	227.1	226.0
57.5°	224.1	214.9	206.5	200.0	199.2	195.1	195.6
60°	198.4	190.7	183.8	180.4	177.7	174.3	175.4
62.5°	177.3	170.8	164.5	161.7	159.0	156.5	157.0
65°	145.2	139.0	135.2	133.7	132.5	131.4	130.2
67.5°	115.7	111.9	109.5	106.2	103.9	103.5	102.3
70°	97.3	92.3	88.1	83.9	82.7	82.3	82.7
72.5°	78.0	74.8	73.7	71.6	71.4	70.4	71.1
75°	58.6	57.5	56.7	55.2	55.2	55.2	55.2
77.5°	43.2	42.5	42.1	41.7	41.4	40.8	40.8
80°	33.7	33.3	32.6	32.6	32.2	32.6	32.2
82.5°	25.4	25.4	24.6	24.6	24.2	24.0	24.2
85°	13.0	12.6	13.4	12.6	13.0	12.3	13.0
87.5°	10.5	10.8	10.6	10.7	10.6	11.3	10.8
90°	34.3	35.4	36.3	36.9	37.4	38.0	38.6
92.5°	38.4	40.2	41.3	41.7	42.0	42.3	42.7
95°	45.9	47.9	48.9	48.9	48.9	48.9	48.9
97.5°	48.3	50.5	51.8	52.1	52.4	52.7	53.0
100°	49.3	51.6	52.9	53.1	53.4	53.7	54.0
102.5°	63.3	56.3	53.0	53.5	54.0	54.5	55.0
105°	129.9	79.3	54.3	54.9	55.4	56.0	56.6
107.5°	404.9	367.8	330.2	292.1	253.9	215.8	177.7
110°	551.6	542.2	517.0	476.2	435.3	394.5	353.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	645.2	645.4	641.2	632.5	623.9	615.3	606.7
115°	746.6	749.5	751.5	752.6	753.8	754.9	756.1
117.5°	835.4	837.7	839.0	839.2	839.4	839.7	839.9
120°	894.1	896.4	897.5	897.5	897.5	897.5	897.5
122.5°	950.7	952.3	953.2	953.4	953.6	953.9	954.1
125°	1030.4	1030.9	1031.5	1032.1	1032.7	1033.2	1033.8
127.5°	1111.6	1112.6	1112.7	1112.2	1111.6	1111.0	1110.4
130°	1160.7	1161.8	1162.1	1161.5	1161.0	1160.4	1159.8
132.5°	1207.0	1208.1	1208.3	1207.5	1206.7	1205.9	1205.1
135°	1276.8	1277.7	1277.7	1276.8	1276.0	1275.1	1274.3
137.5°	1339.8	1341.2	1341.6	1341.0	1340.5	1339.9	1339.3
140°	1379.3	1380.4	1380.7	1380.1	1379.5	1379.0	1378.4
142.5°	1416.6	1417.6	1417.6	1416.8	1416.0	1415.2	1414.4
145°	1468.8	1469.4	1469.7	1469.7	1469.7	1469.7	1469.7
147.5°	1515.9	1516.5	1516.1	1514.8	1513.5	1512.2	1510.8
150°	1544.7	1545.3	1545.1	1544.3	1543.4	1542.6	1541.7
152.5°	1570.8	1571.8	1571.7	1570.3	1569.0	1567.7	1566.4
155°	1606.4	1607.9	1607.7	1606.0	1604.3	1602.6	1600.9
157.5°	1637.4	1639.1	1638.8	1636.6	1634.4	1632.1	1629.9
160°	1654.9	1656.6	1656.4	1654.4	1652.4	1650.4	1648.4
162.5°	1671.0	1672.9	1673.0	1671.2	1669.5	1667.7	1665.9
165°	1692.6	1694.9	1695.0	1693.0	1691.0	1689.0	1687.0
167.5°	1709.0	1711.3	1711.3	1709.0	1706.8	1704.5	1702.2
170°	1718.3	1720.6	1720.6	1718.3	1716.0	1713.7	1711.4
172.5°	1724.5	1726.8	1726.6	1724.1	1721.6	1719.1	1716.6
175°	1731.6	1733.6	1733.4	1731.2	1728.9	1726.6	1724.3
177.5°	1734.2	1736.0	1735.8	1733.5	1731.2	1728.9	1726.6
180°	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7

(END OF REPORT)