

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: P332419

Luminaire Tested: **S123RDIW-S560D1030U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332419
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-S560D1030U835-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 560 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: 5804.8 lumens
Efficiency: N/A
Efficacy: 128.4 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

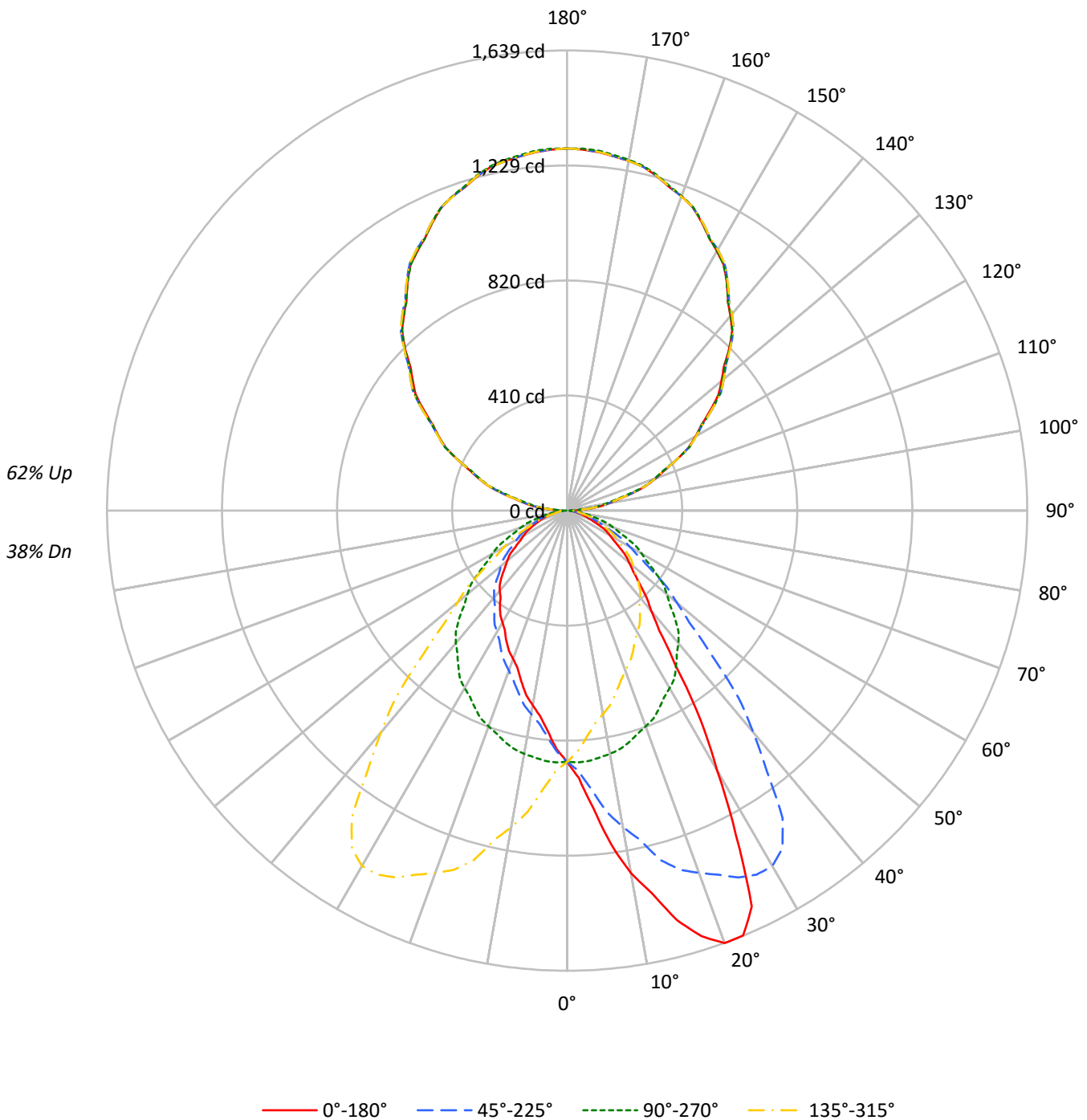
Input Watts (W): 45.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	38
1	96	92	88	85	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	75	70	79	73	68	64	60	57	54	48	45	43	37	35	34	29
3	80	71	64	59	72	65	59	54	53	49	46	43	40	37	33	31	29	25
4	73	63	56	50	66	58	51	46	48	43	39	38	35	32	30	27	26	22
5	67	56	49	43	61	52	45	40	43	38	34	34	31	28	27	24	22	19
6	62	51	43	37	56	46	40	35	39	34	30	31	28	25	24	22	20	17
7	58	46	38	33	52	42	35	31	35	30	26	29	25	22	22	20	18	15
8	53	42	34	29	49	38	32	27	32	27	23	26	22	20	21	18	16	14
9	50	38	31	26	45	35	29	24	29	24	21	24	20	18	19	16	15	12
10	46	35	28	23	42	32	26	22	27	22	19	22	19	16	18	15	13	11

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



TEST NUMBER: P332419

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	1.5
10°-20°	274.9	4.7
20°-30°	431.9	7.4
30°-40°	450.6	7.8
40°-50°	385.6	6.6
50°-60°	293.9	5.1
60°-70°	188.4	3.2
70°-80°	90.6	1.6
80°-90°	27.8	0.5
90°-100°	84.0	1.4
100°-110°	251.5	4.3
110°-120°	427.7	7.4
120°-130°	562.6	9.7
130°-140°	632.3	10.9
140°-150°	621.6	10.7
150°-160°	523.3	9.0
160°-170°	348.3	6.0
170°-180°	122.0	2.1
0°-30°	794.7	13.7
0°-40°	1245.3	21.5
0°-60°	1924.8	33.2
0°-90°	2231.6	38.4
90°-120°	763.2	13.1
90°-150°	2579.7	44.4
90°-180°	3573.0	61.6
0°-180°	5804.8	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°	30	1	30	1	30	15
95°	79	60	79	60	79	81
105°	241	228	241	228	241	256
115°	432	431	432	431	432	427
125°	623	630	623	630	623	557
135°	817	818	817	818	817	628
145°	992	992	992	992	992	619
155°	1134	1136	1134	1136	1134	522
165°	1233	1237	1233	1237	1233	348
175°	1282	1287	1282	1287	1282	122
180°	1290	1290	1290	1290	1290	



TEST NUMBER: P332419

CATALOG NUMBER: S123RDIW-S560D1030U835-4F0-1E-UDD-A1

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°	9.1	9.7	9.0	9.2	9.1	9.3	9.1	8.9	9.3	8.8	8.6
90°	30.4	29.9	29.5	29.0	28.6	27.9	27.0	26.1	25.2	24.3	21.4
92.5°	40.9	41.2	41.5	41.7	42.0	41.8	41.1	40.3	39.6	38.9	37.2
95°	79.0	79.0	79.0	79.0	79.0	78.6	77.7	76.8	75.9	75.0	73.2
97.5°	121.6	121.7	121.8	121.8	121.9	121.5	120.4	119.4	118.4	117.3	116.0
100°	154.0	153.5	153.1	152.6	152.2	151.6	151.0	150.3	149.6	148.9	147.8
102.5°	187.2	187.3	187.4	187.5	187.6	187.3	186.6	185.9	185.3	184.6	183.1
105°	241.1	240.7	240.2	239.8	239.3	239.1	239.1	239.1	239.1	239.1	237.1
107.5°	297.2	297.5	297.8	298.1	298.3	298.1	297.4	296.7	295.9	295.2	294.4
110°	335.3	335.8	336.2	336.7	337.1	336.9	336.0	335.1	334.2	333.3	332.9



TEST NUMBER: P332419

CATALOG NUMBER: S123RDIW-S560D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	375.9	376.0	376.0	376.1	376.2	375.7	374.6	373.6	372.5	371.4	371.3
115°	431.6	431.8	432.0	432.3	432.5	432.5	432.3	432.0	431.8	431.6	432.0
117.5°	488.1	488.7	489.4	490.0	490.6	491.0	491.0	491.1	491.1	491.2	491.7
120°	527.8	528.3	528.7	529.2	529.6	530.0	530.2	530.4	530.6	530.9	532.0
122.5°	565.9	566.6	567.2	567.8	568.4	569.1	569.6	570.2	570.8	571.4	572.0
125°	623.1	624.0	624.9	625.8	626.7	627.6	628.5	629.4	630.3	631.2	631.6
127.5°	680.0	681.0	682.1	683.1	684.1	685.3	686.6	687.8	689.1	690.3	690.8
130°	717.3	718.9	720.4	722.0	723.6	724.8	725.7	726.6	727.5	728.4	729.1
132.5°	756.2	757.4	758.6	759.8	761.1	762.2	763.3	764.4	765.4	766.5	767.0
135°	816.6	817.0	817.5	817.9	818.4	819.0	819.9	820.8	821.7	822.6	822.9
137.5°	869.9	870.7	871.6	872.4	873.3	874.2	875.1	876.1	877.0	878.0	877.4
140°	904.7	906.3	907.9	909.4	911.0	911.9	912.1	912.4	912.6	912.8	912.6
142.5°	940.4	941.6	942.8	944.0	945.2	946.0	946.2	946.4	946.6	946.9	946.5
145°	991.8	992.7	993.6	994.5	995.4	996.0	996.2	996.5	996.7	996.9	996.2
147.5°	1037.6	1039.0	1040.3	1041.7	1043.0	1043.7	1043.7	1043.7	1043.7	1043.7	1043.1
150°	1066.8	1068.2	1069.5	1070.9	1072.2	1072.9	1072.9	1072.9	1072.9	1072.9	1072.4
152.5°	1095.2	1096.3	1097.5	1098.7	1099.9	1100.3	1099.9	1099.5	1099.2	1098.8	1098.6
155°	1133.7	1135.3	1136.8	1138.4	1140.0	1140.3	1139.4	1138.5	1137.6	1136.7	1136.5
157.5°	1168.7	1170.0	1171.3	1172.5	1173.8	1173.9	1173.0	1172.0	1171.1	1170.1	1170.0
160°	1191.4	1192.3	1193.2	1194.1	1195.0	1194.9	1193.8	1192.7	1191.5	1190.4	1190.4
162.5°	1208.4	1209.9	1211.3	1212.8	1214.2	1214.4	1213.2	1212.1	1211.0	1209.9	1209.7
165°	1233.0	1234.5	1236.1	1237.7	1239.3	1239.4	1238.0	1236.7	1235.3	1234.0	1234.0
167.5°	1253.8	1255.2	1256.6	1258.0	1259.4	1259.4	1258.0	1256.6	1255.2	1253.8	1253.7
170°	1264.4	1265.9	1267.5	1269.1	1270.7	1270.7	1269.1	1267.5	1265.9	1264.4	1264.4
172.5°	1272.5	1274.0	1275.6	1277.2	1278.8	1278.9	1277.5	1276.1	1274.7	1273.3	1273.3
175°	1281.6	1283.2	1284.7	1286.3	1287.9	1288.0	1286.7	1285.3	1284.0	1282.6	1282.6
177.5°	1286.5	1287.7	1289.0	1290.2	1291.5	1291.6	1290.5	1289.4	1288.3	1287.3	1287.3
180°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7



TEST NUMBER: P332419

CATALOG NUMBER: S123RDIW-S560D1030U835-4F0-1E-UDD-A1

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°	8.6	7.7	7.7	7.2	7.7	7.5	8.9	10.0	10.8	10.0	10.4
90°	18.5	15.5	12.6	10.0	7.8	5.5	3.3	1.0	3.3	5.5	7.8
92.5°	35.6	33.9	32.2	30.6	29.1	27.6	26.0	24.5	26.0	27.6	29.1
95°	71.4	69.6	67.8	66.1	64.5	62.9	61.3	59.8	61.3	62.9	64.5
97.5°	114.7	113.4	112.1	110.9	109.7	108.5	107.3	106.2	107.3	108.5	109.7
100°	146.7	145.6	144.4	143.2	141.8	140.5	139.1	137.8	139.1	140.5	141.8
102.5°	181.6	180.1	178.6	177.5	176.7	175.9	175.1	174.3	175.1	175.9	176.7
105°	235.0	233.0	231.0	229.8	229.3	228.9	228.4	228.0	228.4	228.9	229.3
107.5°	293.6	292.8	292.0	291.4	291.2	290.9	290.6	290.4	290.6	290.9	291.2
110°	332.4	332.0	331.5	331.1	330.6	330.2	329.7	329.3	329.7	330.2	330.6



TEST NUMBER: P332419

CATALOG NUMBER: S123RDIW-S560D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	371.2	371.1	371.0	370.9	370.6	370.3	370.1	369.8	370.1	370.3	370.6
115°	432.5	432.9	433.4	433.3	432.6	431.9	431.2	430.6	431.2	431.9	432.6
117.5°	492.3	492.9	493.5	493.6	493.1	492.7	492.2	491.8	492.2	492.7	493.1
120°	533.1	534.2	535.4	535.3	533.9	532.6	531.2	529.9	531.2	532.6	533.9
122.5°	572.6	573.2	573.7	573.5	572.5	571.6	570.6	569.6	570.6	571.6	572.5
125°	632.1	632.5	633.0	632.9	632.2	631.5	630.8	630.2	630.8	631.5	632.2
127.5°	691.3	691.8	692.3	691.8	690.4	689.0	687.5	686.1	687.5	689.0	690.4
130°	729.8	730.5	731.1	730.6	728.8	727.0	725.2	723.4	725.2	727.0	728.8
132.5°	767.5	768.0	768.5	767.9	766.1	764.2	762.4	760.6	762.4	764.2	766.1
135°	823.1	823.3	823.5	823.0	821.6	820.3	818.9	817.6	818.9	820.3	821.6
137.5°	876.8	876.2	875.6	874.8	873.6	872.5	871.4	870.3	871.4	872.5	873.6
140°	912.4	912.1	911.9	911.2	910.1	909.0	907.9	906.7	907.9	909.0	910.1
142.5°	946.0	945.6	945.2	944.5	943.3	942.2	941.1	940.0	941.1	942.2	943.3
145°	995.6	994.9	994.2	993.6	993.2	992.7	992.3	991.8	992.3	992.7	993.2
147.5°	1042.5	1041.8	1041.2	1040.5	1039.7	1038.8	1038.0	1037.2	1038.0	1038.8	1039.7
150°	1072.0	1071.5	1071.1	1070.6	1070.2	1069.7	1069.3	1068.8	1069.3	1069.7	1070.2
152.5°	1098.3	1098.0	1097.7	1097.3	1096.7	1096.0	1095.4	1094.8	1095.4	1096.0	1096.7
155°	1136.3	1136.0	1135.8	1135.7	1135.7	1135.7	1135.7	1135.7	1135.7	1135.7	1135.7
157.5°	1169.8	1169.6	1169.4	1169.5	1169.7	1170.0	1170.3	1170.6	1170.3	1170.0	1169.7
160°	1190.4	1190.4	1190.4	1190.6	1191.1	1191.5	1192.0	1192.4	1192.0	1191.5	1191.1
162.5°	1209.5	1209.3	1209.1	1209.4	1210.0	1210.6	1211.3	1211.9	1211.3	1210.6	1210.0
165°	1234.0	1234.0	1234.0	1234.3	1235.0	1235.7	1236.3	1237.0	1236.3	1235.7	1235.0
167.5°	1253.5	1253.3	1253.1	1253.5	1254.4	1255.3	1256.2	1257.1	1256.2	1255.3	1254.4
170°	1264.4	1264.4	1264.4	1264.8	1265.7	1266.6	1267.5	1268.4	1267.5	1266.6	1265.7
172.5°	1273.3	1273.3	1273.3	1273.7	1274.6	1275.5	1276.4	1277.3	1276.4	1275.5	1274.6
175°	1282.6	1282.6	1282.6	1283.1	1284.0	1284.9	1285.8	1286.7	1285.8	1284.9	1284.0
177.5°	1287.3	1287.3	1287.3	1287.6	1288.3	1289.1	1289.8	1290.5	1289.8	1289.1	1288.3
180°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7



TEST NUMBER: P332419

CATALOG NUMBER: S123RDIW-S560D1030U835-4F0-1E-UDD-A1

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°	10.6	12.0	12.9	13.8	14.7	15.0	15.5	15.6	16.1	16.3	16.4
90°	10.0	12.6	15.5	18.5	21.4	24.3	25.2	26.1	27.0	27.9	28.6
92.5°	30.6	32.2	33.9	35.6	37.2	38.9	39.6	40.3	41.1	41.8	42.0
95°	66.1	67.8	69.6	71.4	73.2	75.0	75.9	76.8	77.7	78.6	79.0
97.5°	110.9	112.1	113.4	114.7	116.0	117.3	118.4	119.4	120.4	121.5	121.9
100°	143.2	144.4	145.6	146.7	147.8	148.9	149.6	150.3	151.0	151.6	152.2
102.5°	177.5	178.6	180.1	181.6	183.1	184.6	185.3	185.9	186.6	187.3	187.6
105°	229.8	231.0	233.0	235.0	237.1	239.1	239.1	239.1	239.1	239.1	239.3
107.5°	291.4	292.0	292.8	293.6	294.4	295.2	295.9	296.7	297.4	298.1	298.3
110°	331.1	331.5	332.0	332.4	332.9	333.3	334.2	335.1	336.0	336.9	337.1



TEST NUMBER: P332419

CATALOG NUMBER: S123RDIW-S560D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	370.9	371.0	371.1	371.2	371.3	371.4	372.5	373.6	374.6	375.7	376.2
115°	433.3	433.4	432.9	432.5	432.0	431.6	431.8	432.0	432.3	432.5	432.5
117.5°	493.6	493.5	492.9	492.3	491.7	491.2	491.1	491.1	491.0	491.0	490.6
120°	535.3	535.4	534.2	533.1	532.0	530.9	530.6	530.4	530.2	530.0	529.6
122.5°	573.5	573.7	573.2	572.6	572.0	571.4	570.8	570.2	569.6	569.1	568.4
125°	632.9	633.0	632.5	632.1	631.6	631.2	630.3	629.4	628.5	627.6	626.7
127.5°	691.8	692.3	691.8	691.3	690.8	690.3	689.1	687.8	686.6	685.3	684.1
130°	730.6	731.1	730.5	729.8	729.1	728.4	727.5	726.6	725.7	724.8	723.6
132.5°	767.9	768.5	768.0	767.5	767.0	766.5	765.4	764.4	763.3	762.2	761.1
135°	823.0	823.5	823.3	823.1	822.9	822.6	821.7	820.8	819.9	819.0	818.4
137.5°	874.8	875.6	876.2	876.8	877.4	878.0	877.0	876.1	875.1	874.2	873.3
140°	911.2	911.9	912.1	912.4	912.6	912.8	912.6	912.4	912.1	911.9	911.0
142.5°	944.5	945.2	945.6	946.0	946.5	946.9	946.6	946.4	946.2	946.0	945.2
145°	993.6	994.2	994.9	995.6	996.2	996.9	996.7	996.5	996.2	996.0	995.4
147.5°	1040.5	1041.2	1041.8	1042.5	1043.1	1043.7	1043.7	1043.7	1043.7	1043.7	1043.0
150°	1070.6	1071.1	1071.5	1072.0	1072.4	1072.9	1072.9	1072.9	1072.9	1072.9	1072.2
152.5°	1097.3	1097.7	1098.0	1098.3	1098.6	1098.8	1099.2	1099.5	1099.9	1100.3	1099.9
155°	1135.7	1135.8	1136.0	1136.3	1136.5	1136.7	1137.6	1138.5	1139.4	1140.3	1140.0
157.5°	1169.5	1169.4	1169.6	1169.8	1170.0	1170.1	1171.1	1172.0	1173.0	1173.9	1173.8
160°	1190.6	1190.4	1190.4	1190.4	1190.4	1190.4	1191.5	1192.7	1193.8	1194.9	1195.0
162.5°	1209.4	1209.1	1209.3	1209.5	1209.7	1209.9	1211.0	1212.1	1213.2	1214.4	1214.2
165°	1234.3	1234.0	1234.0	1234.0	1234.0	1234.0	1235.3	1236.7	1238.0	1239.4	1239.3
167.5°	1253.5	1253.1	1253.3	1253.5	1253.7	1253.8	1255.2	1256.6	1258.0	1259.4	1259.4
170°	1264.8	1264.4	1264.4	1264.4	1264.4	1264.4	1265.9	1267.5	1269.1	1270.7	1270.7
172.5°	1273.7	1273.3	1273.3	1273.3	1273.3	1273.3	1274.7	1276.1	1277.5	1278.9	1278.8
175°	1283.1	1282.6	1282.6	1282.6	1282.6	1282.6	1284.0	1285.3	1286.7	1288.0	1287.9
177.5°	1287.6	1287.3	1287.3	1287.3	1287.3	1287.3	1288.3	1289.4	1290.5	1291.6	1291.5
180°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7



TEST NUMBER: P332419

CATALOG NUMBER: S123RDIW-S560D1030U835-4F0-1E-UDD-A1

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°	17.1	16.6	16.7	17.1	16.7	16.6	17.1	16.4	16.3	16.1	15.6
90°	29.0	29.5	29.9	30.4	29.9	29.5	29.0	28.6	27.9	27.0	26.1
92.5°	41.7	41.5	41.2	40.9	41.2	41.5	41.7	42.0	41.8	41.1	40.3
95°	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	78.6	77.7	76.8
97.5°	121.8	121.8	121.7	121.6	121.7	121.8	121.8	121.9	121.5	120.4	119.4
100°	152.6	153.1	153.5	154.0	153.5	153.1	152.6	152.2	151.6	151.0	150.3
102.5°	187.5	187.4	187.3	187.2	187.3	187.4	187.5	187.6	187.3	186.6	185.9
105°	239.8	240.2	240.7	241.1	240.7	240.2	239.8	239.3	239.1	239.1	239.1
107.5°	298.1	297.8	297.5	297.2	297.5	297.8	298.1	298.3	298.1	297.4	296.7
110°	336.7	336.2	335.8	335.3	335.8	336.2	336.7	337.1	336.9	336.0	335.1



TEST NUMBER: P332419

CATALOG NUMBER: S123RDIW-S560D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	376.1	376.0	376.0	375.9	376.0	376.0	376.1	376.2	375.7	374.6	373.6
115°	432.3	432.0	431.8	431.6	431.8	432.0	432.3	432.5	432.5	432.3	432.0
117.5°	490.0	489.4	488.7	488.1	488.7	489.4	490.0	490.6	491.0	491.0	491.1
120°	529.2	528.7	528.3	527.8	528.3	528.7	529.2	529.6	530.0	530.2	530.4
122.5°	567.8	567.2	566.6	565.9	566.6	567.2	567.8	568.4	569.1	569.6	570.2
125°	625.8	624.9	624.0	623.1	624.0	624.9	625.8	626.7	627.6	628.5	629.4
127.5°	683.1	682.1	681.0	680.0	681.0	682.1	683.1	684.1	685.3	686.6	687.8
130°	722.0	720.4	718.9	717.3	718.9	720.4	722.0	723.6	724.8	725.7	726.6
132.5°	759.8	758.6	757.4	756.2	757.4	758.6	759.8	761.1	762.2	763.3	764.4
135°	817.9	817.5	817.0	816.6	817.0	817.5	817.9	818.4	819.0	819.9	820.8
137.5°	872.4	871.6	870.7	869.9	870.7	871.6	872.4	873.3	874.2	875.1	876.1
140°	909.4	907.9	906.3	904.7	906.3	907.9	909.4	911.0	911.9	912.1	912.4
142.5°	944.0	942.8	941.6	940.4	941.6	942.8	944.0	945.2	946.0	946.2	946.4
145°	994.5	993.6	992.7	991.8	992.7	993.6	994.5	995.4	996.0	996.2	996.5
147.5°	1041.7	1040.3	1039.0	1037.6	1039.0	1040.3	1041.7	1043.0	1043.7	1043.7	1043.7
150°	1070.9	1069.5	1068.2	1066.8	1068.2	1069.5	1070.9	1072.2	1072.9	1072.9	1072.9
152.5°	1098.7	1097.5	1096.3	1095.2	1096.3	1097.5	1098.7	1099.9	1100.3	1099.9	1099.5
155°	1138.4	1136.8	1135.3	1133.7	1135.3	1136.8	1138.4	1140.0	1140.3	1139.4	1138.5
157.5°	1172.5	1171.3	1170.0	1168.7	1170.0	1171.3	1172.5	1173.8	1173.9	1173.0	1172.0
160°	1194.1	1193.2	1192.3	1191.4	1192.3	1193.2	1194.1	1195.0	1194.9	1193.8	1192.7
162.5°	1212.8	1211.3	1209.9	1208.4	1209.9	1211.3	1212.8	1214.2	1214.4	1213.2	1212.1
165°	1237.7	1236.1	1234.5	1233.0	1234.5	1236.1	1237.7	1239.3	1239.4	1238.0	1236.7
167.5°	1258.0	1256.6	1255.2	1253.8	1255.2	1256.6	1258.0	1259.4	1259.4	1258.0	1256.6
170°	1269.1	1267.5	1265.9	1264.4	1265.9	1267.5	1269.1	1270.7	1270.7	1269.1	1267.5
172.5°	1277.2	1275.6	1274.0	1272.5	1274.0	1275.6	1277.2	1278.8	1278.9	1277.5	1276.1
175°	1286.3	1284.7	1283.2	1281.6	1283.2	1284.7	1286.3	1287.9	1288.0	1286.7	1285.3
177.5°	1290.2	1289.0	1287.7	1286.5	1287.7	1289.0	1290.2	1291.5	1291.6	1290.5	1289.4
180°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7



TEST NUMBER: P332419

CATALOG NUMBER: S123RDIW-S560D1030U835-4F0-1E-UDD-A1

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°	15.5	15.0	14.7	13.8	12.9	12.0	10.6	10.4	10.0	10.8	10.0
90°	25.2	24.3	21.4	18.5	15.5	12.6	10.0	7.8	5.5	3.3	1.0
92.5°	39.6	38.9	37.2	35.6	33.9	32.2	30.6	29.1	27.6	26.0	24.5
95°	75.9	75.0	73.2	71.4	69.6	67.8	66.1	64.5	62.9	61.3	59.8
97.5°	118.4	117.3	116.0	114.7	113.4	112.1	110.9	109.7	108.5	107.3	106.2
100°	149.6	148.9	147.8	146.7	145.6	144.4	143.2	141.8	140.5	139.1	137.8
102.5°	185.3	184.6	183.1	181.6	180.1	178.6	177.5	176.7	175.9	175.1	174.3
105°	239.1	239.1	237.1	235.0	233.0	231.0	229.8	229.3	228.9	228.4	228.0
107.5°	295.9	295.2	294.4	293.6	292.8	292.0	291.4	291.2	290.9	290.6	290.4
110°	334.2	333.3	332.9	332.4	332.0	331.5	331.1	330.6	330.2	329.7	329.3



TEST NUMBER: P332419

CATALOG NUMBER: S123RDIW-S560D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	372.5	371.4	371.3	371.2	371.1	371.0	370.9	370.6	370.3	370.1	369.8
115°	431.8	431.6	432.0	432.5	432.9	433.4	433.3	432.6	431.9	431.2	430.6
117.5°	491.1	491.2	491.7	492.3	492.9	493.5	493.6	493.1	492.7	492.2	491.8
120°	530.6	530.9	532.0	533.1	534.2	535.4	535.3	533.9	532.6	531.2	529.9
122.5°	570.8	571.4	572.0	572.6	573.2	573.7	573.5	572.5	571.6	570.6	569.6
125°	630.3	631.2	631.6	632.1	632.5	633.0	632.9	632.2	631.5	630.8	630.2
127.5°	689.1	690.3	690.8	691.3	691.8	692.3	691.8	690.4	689.0	687.5	686.1
130°	727.5	728.4	729.1	729.8	730.5	731.1	730.6	728.8	727.0	725.2	723.4
132.5°	765.4	766.5	767.0	767.5	768.0	768.5	767.9	766.1	764.2	762.4	760.6
135°	821.7	822.6	822.9	823.1	823.3	823.5	823.0	821.6	820.3	818.9	817.6
137.5°	877.0	878.0	877.4	876.8	876.2	875.6	874.8	873.6	872.5	871.4	870.3
140°	912.6	912.8	912.6	912.4	912.1	911.9	911.2	910.1	909.0	907.9	906.7
142.5°	946.6	946.9	946.5	946.0	945.6	945.2	944.5	943.3	942.2	941.1	940.0
145°	996.7	996.9	996.2	995.6	994.9	994.2	993.6	993.2	992.7	992.3	991.8
147.5°	1043.7	1043.7	1043.1	1042.5	1041.8	1041.2	1040.5	1039.7	1038.8	1038.0	1037.2
150°	1072.9	1072.9	1072.4	1072.0	1071.5	1071.1	1070.6	1070.2	1069.7	1069.3	1068.8
152.5°	1099.2	1098.8	1098.6	1098.3	1098.0	1097.7	1097.3	1096.7	1096.0	1095.4	1094.8
155°	1137.6	1136.7	1136.5	1136.3	1136.0	1135.8	1135.7	1135.7	1135.7	1135.7	1135.7
157.5°	1171.1	1170.1	1170.0	1169.8	1169.6	1169.4	1169.5	1169.7	1170.0	1170.3	1170.6
160°	1191.5	1190.4	1190.4	1190.4	1190.4	1190.4	1190.6	1191.1	1191.5	1192.0	1192.4
162.5°	1211.0	1209.9	1209.7	1209.5	1209.3	1209.1	1209.4	1210.0	1210.6	1211.3	1211.9
165°	1235.3	1234.0	1234.0	1234.0	1234.0	1234.0	1234.3	1235.0	1235.7	1236.3	1237.0
167.5°	1255.2	1253.8	1253.7	1253.5	1253.3	1253.1	1253.5	1254.4	1255.3	1256.2	1257.1
170°	1265.9	1264.4	1264.4	1264.4	1264.4	1264.4	1264.8	1265.7	1266.6	1267.5	1268.4
172.5°	1274.7	1273.3	1273.3	1273.3	1273.3	1273.3	1273.7	1274.6	1275.5	1276.4	1277.3
175°	1284.0	1282.6	1282.6	1282.6	1282.6	1282.6	1283.1	1284.0	1284.9	1285.8	1286.7
177.5°	1288.3	1287.3	1287.3	1287.3	1287.3	1287.3	1287.6	1288.3	1289.1	1289.8	1290.5
180°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7



TEST NUMBER: P332419

CATALOG NUMBER: S123RDIW-S560D1030U835-4F0-1E-UDD-A1

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°	8.9	7.5	7.7	7.2	7.7	7.7	8.6	8.6	8.8	9.3	8.9
90°	3.3	5.5	7.8	10.0	12.6	15.5	18.5	21.4	24.3	25.2	26.1
92.5°	26.0	27.6	29.1	30.6	32.2	33.9	35.6	37.2	38.9	39.6	40.3
95°	61.3	62.9	64.5	66.1	67.8	69.6	71.4	73.2	75.0	75.9	76.8
97.5°	107.3	108.5	109.7	110.9	112.1	113.4	114.7	116.0	117.3	118.4	119.4
100°	139.1	140.5	141.8	143.2	144.4	145.6	146.7	147.8	148.9	149.6	150.3
102.5°	175.1	175.9	176.7	177.5	178.6	180.1	181.6	183.1	184.6	185.3	185.9
105°	228.4	228.9	229.3	229.8	231.0	233.0	235.0	237.1	239.1	239.1	239.1
107.5°	290.6	290.9	291.2	291.4	292.0	292.8	293.6	294.4	295.2	295.9	296.7
110°	329.7	330.2	330.6	331.1	331.5	332.0	332.4	332.9	333.3	334.2	335.1



TEST NUMBER: P332419

CATALOG NUMBER: S123RDIW-S560D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	370.1	370.3	370.6	370.9	371.0	371.1	371.2	371.3	371.4	372.5	373.6
115°	431.2	431.9	432.6	433.3	433.4	432.9	432.5	432.0	431.6	431.8	432.0
117.5°	492.2	492.7	493.1	493.6	493.5	492.9	492.3	491.7	491.2	491.1	491.1
120°	531.2	532.6	533.9	535.3	535.4	534.2	533.1	532.0	530.9	530.6	530.4
122.5°	570.6	571.6	572.5	573.5	573.7	573.2	572.6	572.0	571.4	570.8	570.2
125°	630.8	631.5	632.2	632.9	633.0	632.5	632.1	631.6	631.2	630.3	629.4
127.5°	687.5	689.0	690.4	691.8	692.3	691.8	691.3	690.8	690.3	689.1	687.8
130°	725.2	727.0	728.8	730.6	731.1	730.5	729.8	729.1	728.4	727.5	726.6
132.5°	762.4	764.2	766.1	767.9	768.5	768.0	767.5	767.0	766.5	765.4	764.4
135°	818.9	820.3	821.6	823.0	823.5	823.3	823.1	822.9	822.6	821.7	820.8
137.5°	871.4	872.5	873.6	874.8	875.6	876.2	876.8	877.4	878.0	877.0	876.1
140°	907.9	909.0	910.1	911.2	911.9	912.1	912.4	912.6	912.8	912.6	912.4
142.5°	941.1	942.2	943.3	944.5	945.2	945.6	946.0	946.5	946.9	946.6	946.4
145°	992.3	992.7	993.2	993.6	994.2	994.9	995.6	996.2	996.9	996.7	996.5
147.5°	1038.0	1038.8	1039.7	1040.5	1041.2	1041.8	1042.5	1043.1	1043.7	1043.7	1043.7
150°	1069.3	1069.7	1070.2	1070.6	1071.1	1071.5	1072.0	1072.4	1072.9	1072.9	1072.9
152.5°	1095.4	1096.0	1096.7	1097.3	1097.7	1098.0	1098.3	1098.6	1098.8	1099.2	1099.5
155°	1135.7	1135.7	1135.7	1135.7	1135.8	1136.0	1136.3	1136.5	1136.7	1137.6	1138.5
157.5°	1170.3	1170.0	1169.7	1169.5	1169.4	1169.6	1169.8	1170.0	1170.1	1171.1	1172.0
160°	1192.0	1191.5	1191.1	1190.6	1190.4	1190.4	1190.4	1190.4	1190.4	1191.5	1192.7
162.5°	1211.3	1210.6	1210.0	1209.4	1209.1	1209.3	1209.5	1209.7	1209.9	1211.0	1212.1
165°	1236.3	1235.7	1235.0	1234.3	1234.0	1234.0	1234.0	1234.0	1234.0	1235.3	1236.7
167.5°	1256.2	1255.3	1254.4	1253.5	1253.1	1253.3	1253.5	1253.7	1253.8	1255.2	1256.6
170°	1267.5	1266.6	1265.7	1264.8	1264.4	1264.4	1264.4	1264.4	1264.4	1265.9	1267.5
172.5°	1276.4	1275.5	1274.6	1273.7	1273.3	1273.3	1273.3	1273.3	1273.3	1274.7	1276.1
175°	1285.8	1284.9	1284.0	1283.1	1282.6	1282.6	1282.6	1282.6	1282.6	1284.0	1285.3
177.5°	1289.8	1289.1	1288.3	1287.6	1287.3	1287.3	1287.3	1287.3	1287.3	1288.3	1289.4
180°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7



TEST NUMBER: P332419

CATALOG NUMBER: S123RDIW-S560D1030U835-4F0-1E-UDD-A1

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°	9.1	9.3	9.1	9.2	9.0	9.7	9.1
90°	27.0	27.9	28.6	29.0	29.5	29.9	30.4
92.5°	41.1	41.8	42.0	41.7	41.5	41.2	40.9
95°	77.7	78.6	79.0	79.0	79.0	79.0	79.0
97.5°	120.4	121.5	121.9	121.8	121.8	121.7	121.6
100°	151.0	151.6	152.2	152.6	153.1	153.5	154.0
102.5°	186.6	187.3	187.6	187.5	187.4	187.3	187.2
105°	239.1	239.1	239.3	239.8	240.2	240.7	241.1
107.5°	297.4	298.1	298.3	298.1	297.8	297.5	297.2
110°	336.0	336.9	337.1	336.7	336.2	335.8	335.3



TEST NUMBER: P332419

CATALOG NUMBER: S123RDIW-S560D1030U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	374.6	375.7	376.2	376.1	376.0	376.0	375.9
115°	432.3	432.5	432.5	432.3	432.0	431.8	431.6
117.5°	491.0	491.0	490.6	490.0	489.4	488.7	488.1
120°	530.2	530.0	529.6	529.2	528.7	528.3	527.8
122.5°	569.6	569.1	568.4	567.8	567.2	566.6	565.9
125°	628.5	627.6	626.7	625.8	624.9	624.0	623.1
127.5°	686.6	685.3	684.1	683.1	682.1	681.0	680.0
130°	725.7	724.8	723.6	722.0	720.4	718.9	717.3
132.5°	763.3	762.2	761.1	759.8	758.6	757.4	756.2
135°	819.9	819.0	818.4	817.9	817.5	817.0	816.6
137.5°	875.1	874.2	873.3	872.4	871.6	870.7	869.9
140°	912.1	911.9	911.0	909.4	907.9	906.3	904.7
142.5°	946.2	946.0	945.2	944.0	942.8	941.6	940.4
145°	996.2	996.0	995.4	994.5	993.6	992.7	991.8
147.5°	1043.7	1043.7	1043.0	1041.7	1040.3	1039.0	1037.6
150°	1072.9	1072.9	1072.2	1070.9	1069.5	1068.2	1066.8
152.5°	1099.9	1100.3	1099.9	1098.7	1097.5	1096.3	1095.2
155°	1139.4	1140.3	1140.0	1138.4	1136.8	1135.3	1133.7
157.5°	1173.0	1173.9	1173.8	1172.5	1171.3	1170.0	1168.7
160°	1193.8	1194.9	1195.0	1194.1	1193.2	1192.3	1191.4
162.5°	1213.2	1214.4	1214.2	1212.8	1211.3	1209.9	1208.4
165°	1238.0	1239.4	1239.3	1237.7	1236.1	1234.5	1233.0
167.5°	1258.0	1259.4	1259.4	1258.0	1256.6	1255.2	1253.8
170°	1269.1	1270.7	1270.7	1269.1	1267.5	1265.9	1264.4
172.5°	1277.5	1278.9	1278.8	1277.2	1275.6	1274.0	1272.5
175°	1286.7	1288.0	1287.9	1286.3	1284.7	1283.2	1281.6
177.5°	1290.5	1291.6	1291.5	1290.2	1289.0	1287.7	1286.5
180°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7

(END OF REPORT)