

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: P332294-930

Luminaire Tested: **S123RDIP-S560D1195U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332294-930
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: S123RDIP-S560D1195U930-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1195 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5707.9 lumens
Efficiency: N/A
Efficacy: 115.5 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: Semi-Indirect

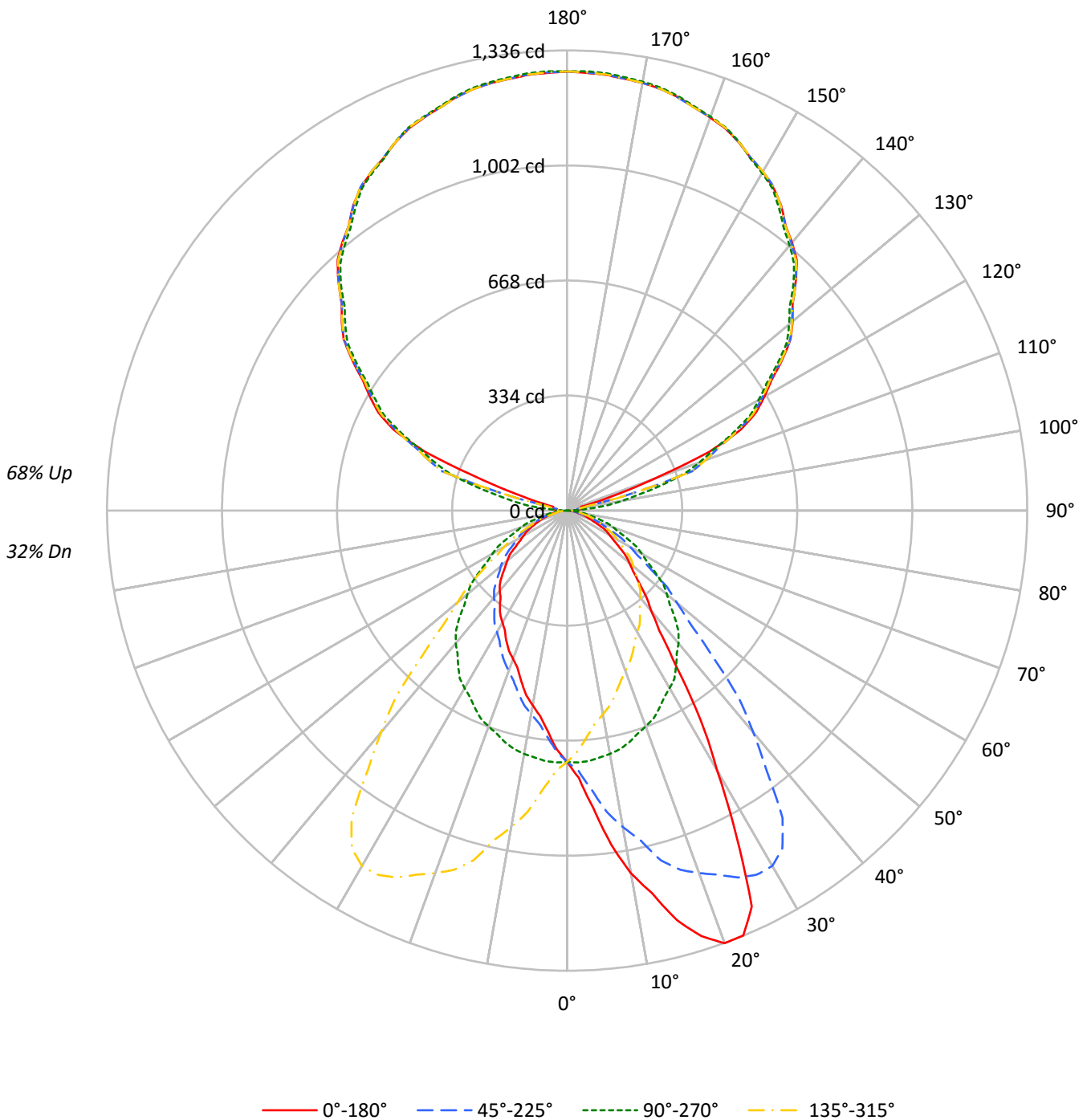
Input Watts (W): 49.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	103	103	103	93	93	93	93	73	73	73	56	56	56	39	39	39	32
1	94	90	86	83	85	81	78	75	65	63	61	49	48	47	35	35	34	28
2	86	79	73	68	77	71	67	62	57	54	51	44	42	40	32	30	29	24
3	79	70	63	57	71	63	57	53	51	46	43	39	36	34	28	27	25	21
4	72	62	54	49	65	56	50	45	45	41	37	35	32	29	26	24	22	18
5	66	55	47	42	59	50	43	38	40	36	32	31	28	26	23	21	19	16
6	61	49	42	36	55	45	38	33	36	32	28	29	25	23	21	19	17	14
7	56	45	37	32	51	41	34	29	33	28	25	26	23	20	19	17	15	13
8	52	40	33	28	47	37	30	26	30	25	22	24	20	18	18	16	14	11
9	49	37	30	25	44	34	27	23	28	23	20	22	18	16	16	14	13	10
10	45	34	27	22	41	31	25	21	25	21	18	20	17	14	15	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7851	7851	7851	7851
5°	9360	7886	6944	7886
10°	11687	7840	6274	7840
15°	13718	7759	5721	7759
20°	15309	7640	5251	7640
25°	15064	7514	4962	7514
30°	10828	7398	4666	7398
35°	7230	7247	4473	7247
40°	5327	7065	4274	7065
45°	4468	6745	4078	6745
50°	3944	6328	3806	6328
55°	3459	5849	3434	5849
60°	3078	5393	3147	5393
65°	2705	4898	2929	4898
70°	2121	4463	2675	4463
75°	1871	3897	2441	3897
80°	1630	3310	2399	3310
85°	1309	2655	2544	2655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	1.3
10°-20°	224.1	3.9
20°-30°	352.1	6.2
30°-40°	367.3	6.4
40°-50°	314.4	5.5
50°-60°	239.6	4.2
60°-70°	153.6	2.7
70°-80°	73.9	1.3
80°-90°	23.1	0.4
90°-100°	46.4	0.8
100°-110°	220.9	3.9
110°-120°	530.6	9.3
120°-130°	675.7	11.8
130°-140°	722.0	12.6
140°-150°	675.1	11.8
150°-160°	544.6	9.5
160°-170°	351.5	6.2
170°-180°	121.1	2.1
0°-30°	647.9	11.4
0°-40°	1015.3	17.8
0°-60°	1569.3	27.5
0°-90°	1819.9	31.9
90°-120°	797.9	14.0
90°-150°	2870.8	50.3
90°-180°	3888.0	68.1
0°-180°	5707.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	729	729	729	729	729	
5°	866	730	643	730	866	89
15°	1231	696	513	696	1231	349
25°	1268	633	418	633	1268	545
35°	550	552	340	552	550	361
45°	294	443	268	443	294	231
55°	184	312	183	312	184	167
65°	106	192	115	192	106	104
75°	45	94	59	94	45	48
85°	11	22	21	22	11	13
90°	28	1	28	1	28	13
95°	36	58	36	58	36	30
105°	42	282	42	282	42	95
115°	557	530	557	530	557	515
125°	762	746	762	746	762	680
135°	939	929	939	929	939	724
145°	1083	1072	1083	1072	1083	676
155°	1179	1181	1179	1181	1179	544
165°	1243	1246	1243	1246	1243	351
175°	1270	1275	1270	1275	1270	121
180°	1275	1275	1275	1275	1275	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	776.9	778.0	774.7	774.2	770.5	769.5	769.5	764.2	760.9	756.7	754.2
5°	866.3	871.2	868.8	863.2	853.8	851.6	845.6	836.3	825.7	812.5	806.3
7.5°	977.8	984.6	981.9	973.3	963.5	955.5	938.8	923.2	901.5	882.4	866.0
10°	1069.3	1062.0	1056.5	1048.0	1038.9	1024.3	1006.8	982.8	955.0	933.1	908.7
12.5°	1137.7	1136.5	1129.4	1120.7	1107.9	1094.0	1072.4	1043.2	1010.9	979.3	951.5
15°	1231.0	1232.9	1228.2	1219.1	1201.0	1176.3	1143.9	1131.7	1085.5	1051.1	1016.8
17.5°	1295.6	1295.2	1294.5	1282.0	1263.6	1245.9	1215.9	1183.8	1142.0	1093.6	1047.3
20°	1336.5	1333.4	1334.1	1320.0	1306.3	1286.0	1256.6	1210.1	1175.7	1119.8	1072.0
22.5°	1335.5	1334.9	1337.3	1332.4	1322.5	1306.9	1283.9	1244.6	1200.7	1144.3	1090.5
25°	1268.4	1266.0	1280.7	1284.7	1300.6	1303.4	1296.6	1275.0	1233.5	1175.4	1108.9
27.5°	1061.6	1060.2	1087.4	1121.5	1164.8	1198.4	1230.9	1246.5	1233.5	1191.9	1125.3
30°	871.2	900.6	914.4	963.7	1018.6	1084.2	1141.7	1196.3	1209.7	1191.6	1137.0
32.5°	723.3	748.9	760.4	802.8	854.0	930.8	1017.0	1094.4	1149.1	1162.9	1130.0
35°	550.2	550.6	576.7	595.5	642.9	721.9	805.7	909.3	1012.4	1090.5	1098.6
37.5°	439.0	440.6	456.5	475.2	510.8	552.5	626.2	712.4	831.4	951.3	1021.6
40°	379.1	381.9	393.8	412.2	437.8	469.4	526.8	608.0	707.3	840.7	949.7
42.5°	340.6	345.2	351.3	365.5	381.3	410.9	457.4	520.1	610.3	736.5	862.2
45°	293.5	296.0	300.7	307.3	321.6	342.3	373.5	415.6	490.6	592.1	718.0
47.5°	258.9	257.6	262.5	267.9	277.4	291.5	312.4	346.8	400.3	481.7	588.5
50°	235.5	235.1	238.6	242.6	251.7	262.0	279.2	305.1	347.6	415.0	512.7
52.5°	213.4	214.7	217.1	222.2	228.7	237.0	252.4	271.1	307.6	365.8	447.3
55°	184.3	185.2	188.6	191.4	196.1	204.6	214.3	229.8	254.8	295.4	362.6
57.5°	159.5	159.1	162.4	163.1	168.4	175.2	182.7	194.9	213.0	243.1	288.4
60°	143.0	142.1	144.9	147.1	149.9	155.5	161.8	173.7	188.0	210.2	248.9
62.5°	128.0	127.6	129.6	131.8	134.1	139.3	144.6	153.6	165.0	183.7	214.4
65°	106.2	107.1	108.0	109.0	110.2	113.3	118.4	124.6	132.4	145.5	167.7
67.5°	83.4	84.4	84.7	86.6	89.3	91.2	94.3	99.9	105.3	116.3	129.0
70°	67.4	67.1	67.4	68.4	71.8	75.3	79.3	83.4	86.8	94.7	105.3
72.5°	58.0	57.4	58.2	58.4	60.1	61.0	63.6	67.4	71.8	77.1	84.8
75°	45.0	45.0	45.0	45.0	46.2	46.9	47.8	48.8	50.3	52.7	58.4
77.5°	33.3	33.3	33.8	34.0	34.3	34.7	35.2	36.2	36.7	38.1	40.4
80°	26.3	26.6	26.3	26.6	26.6	27.1	27.5	28.5	28.7	30.3	31.2
82.5°	19.7	19.6	19.7	20.1	20.1	20.7	20.7	21.4	21.5	22.3	23.2
85°	10.6	10.0	10.6	10.3	10.9	10.3	10.6	11.3	11.3	11.6	12.8
87.5°	8.2	8.6	8.0	8.2	8.1	8.2	8.1	7.9	8.2	7.8	7.5
90°	28.5	28.0	27.6	27.1	26.7	26.1	25.3	24.4	23.6	22.7	20.0
92.5°	31.5	31.2	31.0	30.7	30.4	29.7	28.3	26.9	25.6	24.2	22.2
95°	36.0	36.0	36.0	36.0	36.0	35.2	33.8	32.3	30.8	29.4	27.1
97.5°	39.1	38.8	38.6	38.4	38.2	37.3	35.5	33.8	32.2	30.5	45.7
100°	39.8	39.5	39.4	39.1	39.0	38.0	36.3	34.7	32.9	31.2	64.1
102.5°	40.5	40.2	39.8	39.4	39.1	41.4	46.6	51.9	57.1	62.3	98.2
105°	41.7	41.3	40.8	40.4	40.0	58.4	95.6	132.9	170.2	207.4	226.4
107.5°	130.9	159.0	187.0	215.2	243.2	270.9	298.2	325.5	352.9	380.3	377.2
110°	260.5	290.6	320.7	350.8	380.9	399.4	406.3	413.3	420.3	427.2	424.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	446.9	453.2	459.6	465.9	472.3	475.5	475.3	475.2	475.1	474.9	472.6
115°	556.9	556.1	555.3	554.4	553.6	552.1	550.0	547.9	545.8	543.7	541.8
117.5°	618.7	618.6	618.4	618.2	618.1	617.1	615.5	613.8	612.0	610.4	609.4
120°	661.1	661.1	661.1	661.1	661.1	660.3	658.6	657.0	655.3	653.5	653.0
122.5°	702.9	702.7	702.5	702.3	702.1	701.5	700.3	699.1	698.0	696.8	695.9
125°	761.6	761.2	760.8	760.3	759.9	759.5	759.0	758.6	758.2	757.7	756.9
127.5°	818.0	818.5	818.9	819.3	819.7	819.5	818.9	818.2	817.6	816.8	815.9
130°	854.4	854.8	855.2	855.7	856.1	855.9	855.0	854.2	853.4	852.5	851.7
132.5°	887.7	888.4	888.9	889.5	890.1	890.0	889.2	888.3	887.5	886.6	885.9
135°	938.7	939.3	940.0	940.6	941.3	941.3	940.6	940.0	939.3	938.7	937.8
137.5°	986.6	987.1	987.5	987.9	988.3	988.0	987.0	986.0	985.0	984.0	983.5
140°	1015.5	1015.9	1016.3	1016.7	1017.1	1016.9	1016.0	1015.2	1014.4	1013.5	1012.9
142.5°	1042.0	1042.5	1043.1	1043.7	1044.3	1044.2	1043.6	1042.9	1042.3	1041.5	1041.0
145°	1082.6	1082.6	1082.6	1082.6	1082.6	1082.5	1082.1	1081.7	1081.2	1080.8	1080.4
147.5°	1113.0	1113.9	1114.9	1115.9	1116.9	1117.1	1116.7	1116.3	1115.9	1115.4	1115.0
150°	1135.7	1136.4	1137.0	1137.6	1138.2	1138.3	1137.9	1137.5	1137.1	1136.7	1136.3
152.5°	1153.9	1154.9	1155.8	1156.8	1157.8	1157.9	1157.2	1156.3	1155.6	1154.9	1154.6
155°	1179.3	1180.6	1181.9	1183.1	1184.3	1184.5	1183.4	1182.3	1181.3	1180.2	1180.1
157.5°	1200.7	1202.3	1204.0	1205.7	1207.3	1207.5	1206.2	1204.9	1203.7	1202.4	1202.6
160°	1214.3	1215.8	1217.3	1218.8	1220.3	1220.3	1219.0	1217.8	1216.6	1215.3	1215.5
162.5°	1227.2	1228.5	1229.8	1231.1	1232.4	1232.4	1230.9	1229.6	1228.1	1226.6	1226.9
165°	1242.8	1244.2	1245.7	1247.2	1248.6	1248.5	1246.8	1245.2	1243.5	1241.8	1242.0
167.5°	1253.9	1255.6	1257.3	1259.0	1260.7	1260.7	1259.0	1257.3	1255.6	1253.9	1253.9
170°	1260.8	1262.4	1264.1	1265.8	1267.5	1267.5	1265.8	1264.1	1262.4	1260.8	1260.8
172.5°	1264.5	1266.4	1268.3	1270.1	1271.9	1272.0	1270.3	1268.7	1267.0	1265.3	1265.1
175°	1270.2	1271.9	1273.6	1275.3	1276.9	1277.1	1275.6	1274.1	1272.7	1271.1	1271.0
177.5°	1271.9	1273.6	1275.3	1277.0	1278.6	1278.8	1277.5	1276.1	1274.8	1273.4	1273.3
180°	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	753.2	752.4	748.9	744.9	739.7	736.2	733.4	732.0	727.5	721.9	718.2
5°	799.7	790.4	780.4	768.2	756.9	745.4	738.3	729.8	719.5	707.9	699.8
7.5°	849.5	831.2	811.4	791.0	770.8	752.7	736.7	723.0	706.6	690.1	678.4
10°	887.8	861.0	833.2	804.7	778.8	754.5	735.7	717.3	697.7	678.6	664.2
12.5°	922.5	887.2	855.2	820.2	787.1	758.0	731.0	709.3	685.7	665.4	649.0
15°	966.5	930.3	891.5	838.5	794.4	757.6	724.8	696.3	667.6	642.7	626.7
17.5°	1007.5	953.1	901.1	856.7	799.6	753.5	713.5	679.5	648.0	621.5	601.9
20°	1024.6	971.8	915.3	858.8	802.6	751.1	704.5	667.0	634.2	604.2	586.1
22.5°	1034.8	975.0	915.5	854.8	795.1	741.5	695.5	654.3	618.7	590.3	567.9
25°	1046.8	975.5	910.0	850.0	789.1	731.0	676.4	632.7	594.3	563.9	540.2
27.5°	1054.6	970.9	893.3	826.7	764.9	707.1	657.0	610.7	571.7	539.6	514.2
30°	1056.1	967.1	880.6	808.5	745.7	692.6	639.5	595.2	554.0	519.9	496.2
32.5°	1058.1	957.9	863.4	786.8	722.5	669.9	621.8	579.4	537.2	503.7	479.5
35°	1049.9	952.8	837.2	749.2	684.9	633.9	590.5	551.5	510.0	477.4	452.8
37.5°	1014.4	932.5	810.1	706.8	639.5	592.4	557.0	523.0	484.9	449.9	426.6
40°	978.7	912.5	789.1	681.1	610.8	562.4	530.5	502.8	465.9	433.1	408.1
42.5°	925.4	885.3	769.2	654.1	578.3	531.7	504.8	478.7	446.5	413.1	389.6
45°	827.9	833.2	728.2	611.1	533.4	486.5	461.2	443.1	414.4	386.9	362.9
47.5°	705.4	755.0	680.2	565.3	486.0	442.0	419.9	404.1	384.7	357.8	335.8
50°	625.5	696.3	641.7	534.6	456.2	412.5	390.7	377.9	361.0	339.7	318.9
52.5°	551.8	627.9	595.3	500.3	424.0	384.0	362.6	352.1	338.8	318.8	299.9
55°	450.0	527.1	519.6	448.7	375.7	339.7	323.5	311.7	302.6	287.6	272.6
57.5°	363.9	437.1	441.0	391.3	333.0	297.6	283.6	274.7	268.7	257.5	243.6
60°	309.8	376.9	390.0	352.5	302.6	271.3	257.6	250.5	245.7	236.7	226.1
62.5°	264.8	322.0	336.8	309.8	273.4	244.1	233.4	226.5	223.3	215.5	206.1
65°	202.7	250.1	264.5	249.5	230.5	207.0	198.3	192.3	189.6	185.2	178.3
67.5°	152.4	187.0	202.8	192.2	185.3	170.5	164.9	161.8	159.2	156.3	150.5
70°	122.4	148.1	164.3	161.4	155.8	148.1	144.0	141.8	139.3	136.8	131.8
72.5°	98.4	116.0	131.3	132.7	128.1	126.5	122.9	122.1	120.5	117.6	114.8
75°	65.3	77.5	88.1	92.1	94.0	95.6	94.0	93.7	93.4	90.9	89.3
77.5°	42.8	49.3	56.0	62.9	65.9	68.0	68.5	69.6	68.8	67.5	66.8
80°	32.8	34.3	39.1	45.0	49.7	51.5	52.7	53.4	53.1	52.7	51.5
82.5°	23.8	25.1	27.3	31.5	35.4	38.6	39.3	39.1	39.9	40.0	39.1
85°	12.8	13.1	13.8	14.3	16.6	20.0	21.0	21.5	22.2	22.2	20.3
87.5°	7.4	6.7	6.6	6.1	6.4	6.3	7.3	8.2	8.9	8.3	8.7
90°	17.3	14.5	11.8	9.4	7.3	5.1	3.0	1.0	3.0	5.1	7.3
92.5°	20.1	18.1	16.0	15.2	15.8	16.5	17.0	17.6	17.0	16.5	15.8
95°	24.7	22.4	20.1	23.2	31.9	40.5	49.2	57.8	49.2	40.5	31.9
97.5°	60.8	76.0	91.2	100.6	104.5	108.4	112.3	116.1	112.3	108.4	104.5
100°	96.9	129.8	162.6	176.9	172.7	168.5	164.3	160.0	164.3	168.5	172.7
102.5°	134.0	169.9	205.8	222.3	219.2	216.1	213.1	210.1	213.1	216.1	219.2
105°	245.3	264.2	283.2	291.6	289.2	286.9	284.6	282.3	284.6	286.9	289.2
107.5°	374.2	371.3	368.3	365.8	363.9	362.2	360.3	358.4	360.3	362.2	363.9
110°	422.6	420.3	417.9	416.0	414.3	412.5	410.9	409.2	410.9	412.5	414.3



TEST NUMBER: P332294-930

CATALOG NUMBER: S123RDIP-S560D1195U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	470.3	468.0	465.7	463.7	462.3	460.7	459.2	457.7	459.2	460.7	462.3
115°	539.9	538.0	536.1	534.5	533.3	532.0	530.8	529.5	530.8	532.0	533.3
117.5°	608.5	607.5	606.5	605.3	603.7	602.1	600.5	599.0	600.5	602.1	603.7
120°	652.3	651.7	651.1	649.8	647.9	646.0	644.1	642.2	644.1	646.0	647.9
122.5°	695.2	694.4	693.6	692.4	690.8	689.3	687.7	686.2	687.7	689.3	690.8
125°	756.1	755.2	754.4	753.2	751.5	749.7	748.1	746.4	748.1	749.7	751.5
127.5°	814.9	813.8	812.9	811.5	809.8	808.1	806.4	804.8	806.4	808.1	809.8
130°	850.8	849.9	849.1	847.8	846.2	844.5	842.9	841.1	842.9	844.5	846.2
132.5°	885.3	884.6	883.9	882.7	881.0	879.4	877.7	876.0	877.7	879.4	881.0
135°	937.0	936.2	935.3	934.3	933.0	931.7	930.5	929.2	930.5	931.7	933.0
137.5°	983.1	982.6	982.1	981.1	979.5	977.9	976.3	974.7	976.3	977.9	979.5
140°	1012.3	1011.6	1011.0	1010.1	1008.8	1007.5	1006.2	1005.0	1006.2	1007.5	1008.8
142.5°	1040.3	1039.7	1039.0	1038.1	1036.8	1035.6	1034.3	1033.1	1034.3	1035.6	1036.8
145°	1079.9	1079.5	1079.1	1078.2	1076.7	1075.2	1073.7	1072.3	1073.7	1075.2	1076.7
147.5°	1114.6	1114.2	1113.8	1113.0	1112.1	1111.2	1110.2	1109.2	1110.2	1111.2	1112.1
150°	1135.8	1135.4	1135.0	1134.5	1133.8	1133.2	1132.5	1132.0	1132.5	1133.2	1133.8
152.5°	1154.4	1154.1	1153.8	1153.6	1153.2	1153.0	1152.7	1152.4	1152.7	1153.0	1153.2
155°	1179.8	1179.6	1179.4	1179.5	1179.9	1180.3	1180.8	1181.2	1180.8	1180.3	1179.9
157.5°	1202.8	1203.1	1203.2	1203.4	1203.4	1203.5	1203.5	1203.5	1203.5	1203.5	1203.4
160°	1215.7	1215.9	1216.1	1216.3	1216.6	1216.8	1217.0	1217.2	1217.0	1216.8	1216.6
162.5°	1227.1	1227.3	1227.5	1227.8	1228.4	1229.0	1229.6	1230.0	1229.6	1229.0	1228.4
165°	1242.2	1242.4	1242.7	1243.1	1243.7	1244.3	1245.0	1245.6	1245.0	1244.3	1243.7
167.5°	1253.9	1253.9	1253.9	1254.3	1255.2	1256.1	1256.9	1257.8	1256.9	1256.1	1255.2
170°	1260.8	1260.8	1260.8	1261.2	1262.0	1262.9	1263.7	1264.5	1263.7	1262.9	1262.0
172.5°	1264.9	1264.8	1264.6	1265.0	1266.1	1267.1	1268.1	1269.1	1268.1	1267.1	1266.1
175°	1270.7	1270.6	1270.3	1270.7	1271.8	1272.8	1273.9	1275.0	1273.9	1272.8	1271.8
177.5°	1273.1	1272.9	1272.8	1273.1	1274.0	1274.8	1275.6	1276.5	1275.6	1274.8	1274.0
180°	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0



TEST NUMBER: P332294-930

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	717.0	713.7	711.5	706.5	703.3	699.8	696.3	698.5	698.2	698.0	698.0
5°	692.9	685.7	679.2	670.7	665.4	658.9	653.9	653.3	654.5	650.1	647.7
7.5°	669.1	659.3	650.0	640.7	630.8	622.9	618.0	615.7	612.5	609.8	607.0
10°	652.3	640.8	631.7	620.2	609.6	600.2	594.3	590.2	588.0	585.8	581.8
12.5°	635.1	623.8	612.2	599.2	589.1	578.2	573.8	569.2	565.0	562.6	557.0
15°	609.8	595.2	583.0	569.2	558.1	547.4	541.2	532.1	530.8	527.7	522.1
17.5°	584.6	568.7	551.9	541.7	529.0	518.0	508.4	505.4	496.4	493.1	488.2
20°	564.6	549.9	537.1	523.7	505.2	495.0	487.5	483.4	476.2	471.8	468.7
22.5°	547.4	532.4	517.6	502.0	486.7	475.2	469.7	463.4	459.5	453.4	450.0
25°	522.8	506.5	488.7	471.8	460.9	452.2	443.4	437.8	432.2	429.3	423.1
27.5°	494.2	477.2	460.6	447.8	434.3	425.7	417.8	412.8	406.0	401.3	397.9
30°	478.4	458.4	444.1	432.5	415.3	407.2	401.3	395.0	390.0	385.1	381.6
32.5°	460.2	441.9	428.3	414.0	400.8	392.0	384.3	378.8	374.5	369.8	366.4
35°	431.5	416.3	402.2	387.8	378.1	369.1	360.0	355.4	351.3	346.9	343.8
37.5°	405.7	391.4	378.1	364.4	352.5	345.0	337.8	334.2	328.7	325.8	322.6
40°	389.7	375.7	361.3	348.2	335.7	330.1	323.5	318.2	313.2	311.0	307.6
42.5°	372.3	358.2	346.1	331.9	321.7	314.1	308.0	302.2	298.5	295.3	293.3
45°	346.3	333.8	322.0	307.9	298.2	291.6	284.8	279.5	276.1	273.9	270.4
47.5°	321.1	308.7	296.6	284.4	275.0	267.5	260.7	256.9	252.4	249.7	247.4
50°	302.9	291.6	278.8	267.6	258.3	250.8	245.2	240.4	236.4	232.9	231.4
52.5°	286.2	274.2	263.1	252.7	242.8	234.2	229.2	224.2	221.2	217.2	215.4
55°	258.5	247.0	237.7	227.3	217.7	210.5	204.2	199.8	196.7	192.3	189.9
57.5°	232.6	222.3	211.1	202.2	192.2	186.1	180.9	175.0	171.2	167.8	165.3
60°	215.2	203.3	193.6	185.2	176.4	168.6	164.0	159.2	155.2	151.7	149.6
62.5°	196.9	186.5	177.4	168.2	160.2	153.4	148.0	144.0	140.5	138.3	136.1
65°	168.9	160.9	151.5	144.0	136.5	131.5	127.1	123.7	121.2	119.6	117.7
67.5°	143.2	135.3	127.2	119.8	114.8	111.0	108.1	105.2	104.0	101.9	100.7
70°	126.5	118.4	111.2	105.6	100.5	97.8	95.9	93.7	92.5	89.9	88.7
72.5°	108.3	102.4	97.2	92.5	88.5	86.0	83.6	81.0	78.9	76.2	74.9
75°	85.3	80.0	75.9	72.7	70.3	66.9	63.4	60.6	59.7	58.7	58.4
77.5°	63.1	59.8	56.8	54.2	51.1	48.6	47.9	47.2	47.0	46.6	46.6
80°	49.7	46.6	44.4	41.3	39.4	39.4	39.4	38.7	39.1	39.1	39.1
82.5°	36.9	34.0	32.9	31.7	31.4	31.6	31.6	31.7	31.6	32.0	31.8
85°	19.1	19.3	20.0	19.6	20.0	20.0	20.6	20.3	20.6	20.0	20.6
87.5°	8.9	10.1	10.9	11.7	12.5	12.8	13.2	13.4	13.8	13.9	14.1
90°	9.4	11.8	14.5	17.3	20.0	22.7	23.6	24.4	25.3	26.1	26.7
92.5°	15.2	16.0	18.1	20.1	22.2	24.2	25.6	26.9	28.3	29.7	30.4
95°	23.2	20.1	22.4	24.7	27.1	29.4	30.8	32.3	33.8	35.2	36.0
97.5°	100.6	91.2	76.0	60.8	45.7	30.5	32.2	33.8	35.5	37.3	38.2
100°	176.9	162.6	129.8	96.9	64.1	31.2	32.9	34.7	36.3	38.0	39.0
102.5°	222.3	205.8	169.9	134.0	98.2	62.3	57.1	51.9	46.6	41.4	39.1
105°	291.6	283.2	264.2	245.3	226.4	207.4	170.2	132.9	95.6	58.4	40.0
107.5°	365.8	368.3	371.3	374.2	377.2	380.3	352.9	325.5	298.2	270.9	243.2
110°	416.0	417.9	420.3	422.6	424.9	427.2	420.3	413.3	406.3	399.4	380.9



TEST NUMBER: P332294-930

CATALOG NUMBER: S123RDIP-S560D1195U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	463.7	465.7	468.0	470.3	472.6	474.9	475.1	475.2	475.3	475.5	472.3
115°	534.5	536.1	538.0	539.9	541.8	543.7	545.8	547.9	550.0	552.1	553.6
117.5°	605.3	606.5	607.5	608.5	609.4	610.4	612.0	613.8	615.5	617.1	618.1
120°	649.8	651.1	651.7	652.3	653.0	653.5	655.3	657.0	658.6	660.3	661.1
122.5°	692.4	693.6	694.4	695.2	695.9	696.8	698.0	699.1	700.3	701.5	702.1
125°	753.2	754.4	755.2	756.1	756.9	757.7	758.2	758.6	759.0	759.5	759.9
127.5°	811.5	812.9	813.8	814.9	815.9	816.8	817.6	818.2	818.9	819.5	819.7
130°	847.8	849.1	849.9	850.8	851.7	852.5	853.4	854.2	855.0	855.9	856.1
132.5°	882.7	883.9	884.6	885.3	885.9	886.6	887.5	888.3	889.2	890.0	890.1
135°	934.3	935.3	936.2	937.0	937.8	938.7	939.3	940.0	940.6	941.3	941.3
137.5°	981.1	982.1	982.6	983.1	983.5	984.0	985.0	986.0	987.0	988.0	988.3
140°	1010.1	1011.0	1011.6	1012.3	1012.9	1013.5	1014.4	1015.2	1016.0	1016.9	1017.1
142.5°	1038.1	1039.0	1039.7	1040.3	1041.0	1041.5	1042.3	1042.9	1043.6	1044.2	1044.3
145°	1078.2	1079.1	1079.5	1079.9	1080.4	1080.8	1081.2	1081.7	1082.1	1082.5	1082.6
147.5°	1113.0	1113.8	1114.2	1114.6	1115.0	1115.4	1115.9	1116.3	1116.7	1117.1	1116.9
150°	1134.5	1135.0	1135.4	1135.8	1136.3	1136.7	1137.1	1137.5	1137.9	1138.3	1138.2
152.5°	1153.6	1153.8	1154.1	1154.4	1154.6	1154.9	1155.6	1156.3	1157.2	1157.9	1157.8
155°	1179.5	1179.4	1179.6	1179.8	1180.1	1180.2	1181.3	1182.3	1183.4	1184.5	1184.3
157.5°	1203.4	1203.2	1203.1	1202.8	1202.6	1202.4	1203.7	1204.9	1206.2	1207.5	1207.3
160°	1216.3	1216.1	1215.9	1215.7	1215.5	1215.3	1216.6	1217.8	1219.0	1220.3	1220.3
162.5°	1227.8	1227.5	1227.3	1227.1	1226.9	1226.6	1228.1	1229.6	1230.9	1232.4	1232.4
165°	1243.1	1242.7	1242.4	1242.2	1242.0	1241.8	1243.5	1245.2	1246.8	1248.5	1248.6
167.5°	1254.3	1253.9	1253.9	1253.9	1253.9	1253.9	1255.6	1257.3	1259.0	1260.7	1260.7
170°	1261.2	1260.8	1260.8	1260.8	1260.8	1260.8	1262.4	1264.1	1265.8	1267.5	1267.5
172.5°	1265.0	1264.6	1264.8	1264.9	1265.1	1265.3	1267.0	1268.7	1270.3	1272.0	1271.9
175°	1270.7	1270.3	1270.6	1270.7	1271.0	1271.1	1272.7	1274.1	1275.6	1277.1	1276.9
177.5°	1273.1	1272.8	1272.9	1273.1	1273.3	1273.4	1274.8	1276.1	1277.5	1278.8	1278.6
180°	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0



TEST NUMBER: P332294-930

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	695.0	694.7	695.0	694.0	695.0	694.7	695.0	698.0	698.0	698.2	698.5
5°	646.7	646.4	645.5	642.7	645.5	646.4	646.7	647.7	650.1	654.5	653.3
7.5°	604.5	604.1	601.4	601.4	601.4	604.1	604.5	607.0	609.8	612.5	615.7
10°	579.6	579.9	576.2	574.0	576.2	579.9	579.6	581.8	585.8	588.0	590.2
12.5°	555.4	553.9	550.9	548.5	550.9	553.9	555.4	557.0	562.6	565.0	569.2
15°	523.3	520.2	512.7	513.4	512.7	520.2	523.3	522.1	527.7	530.8	532.1
17.5°	485.7	483.4	483.3	478.9	483.3	483.4	485.7	488.2	493.1	496.4	505.4
20°	463.7	462.2	462.8	458.4	462.8	462.2	463.7	468.7	471.8	476.2	483.4
22.5°	446.5	444.9	442.3	440.9	442.3	444.9	446.5	450.0	453.4	459.5	463.4
25°	421.3	418.7	416.3	417.8	416.3	418.7	421.3	423.1	429.3	432.2	437.8
27.5°	396.0	394.1	391.7	391.3	391.7	394.1	396.0	397.9	401.3	406.0	412.8
30°	380.0	378.1	376.9	375.4	376.9	378.1	380.0	381.6	385.1	390.0	395.0
32.5°	363.8	363.5	361.2	360.9	361.2	363.5	363.8	366.4	369.8	374.5	378.8
35°	342.6	340.7	340.1	340.4	340.1	340.7	342.6	343.8	346.9	351.3	355.4
37.5°	322.4	319.9	318.8	317.6	318.8	319.9	322.4	322.6	325.8	328.7	334.2
40°	307.9	305.4	304.8	304.2	304.8	305.4	307.9	307.6	311.0	313.2	318.2
42.5°	291.6	290.7	290.3	289.2	290.3	290.7	291.6	293.3	295.3	298.5	302.2
45°	269.5	269.2	267.3	267.9	267.3	269.2	269.5	270.4	273.9	276.1	279.5
47.5°	246.1	244.8	243.4	244.3	243.4	244.8	246.1	247.4	249.7	252.4	256.9
50°	230.2	229.5	226.7	227.3	226.7	229.5	230.2	231.4	232.9	236.4	240.4
52.5°	214.2	211.8	210.8	210.3	210.8	211.8	214.2	215.4	217.2	221.2	224.2
55°	187.7	184.8	183.6	183.0	183.6	184.8	187.7	189.9	192.3	196.7	199.8
57.5°	161.7	160.9	160.0	160.6	160.0	160.9	161.7	165.3	167.8	171.2	175.0
60°	146.4	146.4	146.4	146.2	146.4	146.4	146.4	149.6	151.7	155.2	159.2
62.5°	134.7	134.0	133.7	134.1	133.7	134.0	134.7	136.1	138.3	140.5	144.0
65°	116.8	116.5	115.2	115.0	115.2	116.5	116.8	117.7	119.6	121.2	123.7
67.5°	99.9	98.7	98.4	97.9	98.4	98.7	99.9	100.7	101.9	104.0	105.2
70°	87.2	86.5	84.6	85.0	84.6	86.5	87.2	88.7	89.9	92.5	93.7
72.5°	73.4	72.7	72.4	71.9	72.4	72.7	73.4	74.9	76.2	78.9	81.0
75°	58.0	57.8	57.5	58.7	57.5	57.8	58.0	58.4	58.7	59.7	60.6
77.5°	46.6	46.6	46.7	46.2	46.7	46.6	46.6	46.6	46.6	47.0	47.2
80°	39.1	39.1	38.7	38.7	38.7	39.1	39.1	39.1	39.1	39.1	38.7
82.5°	31.3	31.6	31.7	31.2	31.7	31.6	31.3	31.8	32.0	31.6	31.7
85°	20.6	20.3	21.0	20.6	21.0	20.3	20.6	20.6	20.0	20.6	20.3
87.5°	14.7	14.3	14.3	14.7	14.3	14.3	14.7	14.1	13.9	13.8	13.4
90°	27.1	27.6	28.0	28.5	28.0	27.6	27.1	26.7	26.1	25.3	24.4
92.5°	30.7	31.0	31.2	31.5	31.2	31.0	30.7	30.4	29.7	28.3	26.9
95°	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	35.2	33.8	32.3
97.5°	38.4	38.6	38.8	39.1	38.8	38.6	38.4	38.2	37.3	35.5	33.8
100°	39.1	39.4	39.5	39.8	39.5	39.4	39.1	39.0	38.0	36.3	34.7
102.5°	39.4	39.8	40.2	40.5	40.2	39.8	39.4	39.1	41.4	46.6	51.9
105°	40.4	40.8	41.3	41.7	41.3	40.8	40.4	40.0	58.4	95.6	132.9
107.5°	215.2	187.0	159.0	130.9	159.0	187.0	215.2	243.2	270.9	298.2	325.5
110°	350.8	320.7	290.6	260.5	290.6	320.7	350.8	380.9	399.4	406.3	413.3



TEST NUMBER: P332294-930

CATALOG NUMBER: S123RDIP-S560D1195U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	465.9	459.6	453.2	446.9	453.2	459.6	465.9	472.3	475.5	475.3	475.2
115°	554.4	555.3	556.1	556.9	556.1	555.3	554.4	553.6	552.1	550.0	547.9
117.5°	618.2	618.4	618.6	618.7	618.6	618.4	618.2	618.1	617.1	615.5	613.8
120°	661.1	661.1	661.1	661.1	661.1	661.1	661.1	661.1	660.3	658.6	657.0
122.5°	702.3	702.5	702.7	702.9	702.7	702.5	702.3	702.1	701.5	700.3	699.1
125°	760.3	760.8	761.2	761.6	761.2	760.8	760.3	759.9	759.5	759.0	758.6
127.5°	819.3	818.9	818.5	818.0	818.5	818.9	819.3	819.7	819.5	818.9	818.2
130°	855.7	855.2	854.8	854.4	854.8	855.2	855.7	856.1	855.9	855.0	854.2
132.5°	889.5	888.9	888.4	887.7	888.4	888.9	889.5	890.1	890.0	889.2	888.3
135°	940.6	940.0	939.3	938.7	939.3	940.0	940.6	941.3	941.3	940.6	940.0
137.5°	987.9	987.5	987.1	986.6	987.1	987.5	987.9	988.3	988.0	987.0	986.0
140°	1016.7	1016.3	1015.9	1015.5	1015.9	1016.3	1016.7	1017.1	1016.9	1016.0	1015.2
142.5°	1043.7	1043.1	1042.5	1042.0	1042.5	1043.1	1043.7	1044.3	1044.2	1043.6	1042.9
145°	1082.6	1082.6	1082.6	1082.6	1082.6	1082.6	1082.6	1082.6	1082.5	1082.1	1081.7
147.5°	1115.9	1114.9	1113.9	1113.0	1113.9	1114.9	1115.9	1116.9	1117.1	1116.7	1116.3
150°	1137.6	1137.0	1136.4	1135.7	1136.4	1137.0	1137.6	1138.2	1138.3	1137.9	1137.5
152.5°	1156.8	1155.8	1154.9	1153.9	1154.9	1155.8	1156.8	1157.8	1157.9	1157.2	1156.3
155°	1183.1	1181.9	1180.6	1179.3	1180.6	1181.9	1183.1	1184.3	1184.5	1183.4	1182.3
157.5°	1205.7	1204.0	1202.3	1200.7	1202.3	1204.0	1205.7	1207.3	1207.5	1206.2	1204.9
160°	1218.8	1217.3	1215.8	1214.3	1215.8	1217.3	1218.8	1220.3	1220.3	1219.0	1217.8
162.5°	1231.1	1229.8	1228.5	1227.2	1228.5	1229.8	1231.1	1232.4	1232.4	1230.9	1229.6
165°	1247.2	1245.7	1244.2	1242.8	1244.2	1245.7	1247.2	1248.6	1248.5	1246.8	1245.2
167.5°	1259.0	1257.3	1255.6	1253.9	1255.6	1257.3	1259.0	1260.7	1260.7	1259.0	1257.3
170°	1265.8	1264.1	1262.4	1260.8	1262.4	1264.1	1265.8	1267.5	1267.5	1265.8	1264.1
172.5°	1270.1	1268.3	1266.4	1264.5	1266.4	1268.3	1270.1	1271.9	1272.0	1270.3	1268.7
175°	1275.3	1273.6	1271.9	1270.2	1271.9	1273.6	1275.3	1276.9	1277.1	1275.6	1274.1
177.5°	1277.0	1275.3	1273.6	1271.9	1273.6	1275.3	1277.0	1278.6	1278.8	1277.5	1276.1
180°	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0



TEST NUMBER: P332294-930

CATALOG NUMBER: S123RDIP-S560D1195U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	696.3	699.8	703.3	706.5	711.5	713.7	717.0	718.2	721.9	727.5	732.0
5°	653.9	658.9	665.4	670.7	679.2	685.7	692.9	699.8	707.9	719.5	729.8
7.5°	618.0	622.9	630.8	640.7	650.0	659.3	669.1	678.4	690.1	706.6	723.0
10°	594.3	600.2	609.6	620.2	631.7	640.8	652.3	664.2	678.6	697.7	717.3
12.5°	573.8	578.2	589.1	599.2	612.2	623.8	635.1	649.0	665.4	685.7	709.3
15°	541.2	547.4	558.1	569.2	583.0	595.2	609.8	626.7	642.7	667.6	696.3
17.5°	508.4	518.0	529.0	541.7	551.9	568.7	584.6	601.9	621.5	648.0	679.5
20°	487.5	495.0	505.2	523.7	537.1	549.9	564.6	586.1	604.2	634.2	667.0
22.5°	469.7	475.2	486.7	502.0	517.6	532.4	547.4	567.9	590.3	618.7	654.3
25°	443.4	452.2	460.9	471.8	488.7	506.5	522.8	540.2	563.9	594.3	632.7
27.5°	417.8	425.7	434.3	447.8	460.6	477.2	494.2	514.2	539.6	571.7	610.7
30°	401.3	407.2	415.3	432.5	444.1	458.4	478.4	496.2	519.9	554.0	595.2
32.5°	384.3	392.0	400.8	414.0	428.3	441.9	460.2	479.5	503.7	537.2	579.4
35°	360.0	369.1	378.1	387.8	402.2	416.3	431.5	452.8	477.4	510.0	551.5
37.5°	337.8	345.0	352.5	364.4	378.1	391.4	405.7	426.6	449.9	484.9	523.0
40°	323.5	330.1	335.7	348.2	361.3	375.7	389.7	408.1	433.1	465.9	502.8
42.5°	308.0	314.1	321.7	331.9	346.1	358.2	372.3	389.6	413.1	446.5	478.7
45°	284.8	291.6	298.2	307.9	322.0	333.8	346.3	362.9	386.9	414.4	443.1
47.5°	260.7	267.5	275.0	284.4	296.6	308.7	321.1	335.8	357.8	384.7	404.1
50°	245.2	250.8	258.3	267.6	278.8	291.6	302.9	318.9	339.7	361.0	377.9
52.5°	229.2	234.2	242.8	252.7	263.1	274.2	286.2	299.9	318.8	338.8	352.1
55°	204.2	210.5	217.7	227.3	237.7	247.0	258.5	272.6	287.6	302.6	311.7
57.5°	180.9	186.1	192.2	202.2	211.1	222.3	232.6	243.6	257.5	268.7	274.7
60°	164.0	168.6	176.4	185.2	193.6	203.3	215.2	226.1	236.7	245.7	250.5
62.5°	148.0	153.4	160.2	168.2	177.4	186.5	196.9	206.1	215.5	223.3	226.5
65°	127.1	131.5	136.5	144.0	151.5	160.9	168.9	178.3	185.2	189.6	192.3
67.5°	108.1	111.0	114.8	119.8	127.2	135.3	143.2	150.5	156.3	159.2	161.8
70°	95.9	97.8	100.5	105.6	111.2	118.4	126.5	131.8	136.8	139.3	141.8
72.5°	83.6	86.0	88.5	92.5	97.2	102.4	108.3	114.8	117.6	120.5	122.1
75°	63.4	66.9	70.3	72.7	75.9	80.0	85.3	89.3	90.9	93.4	93.7
77.5°	47.9	48.6	51.1	54.2	56.8	59.8	63.1	66.8	67.5	68.8	69.6
80°	39.4	39.4	39.4	41.3	44.4	46.6	49.7	51.5	52.7	53.1	53.4
82.5°	31.6	31.6	31.4	31.7	32.9	34.0	36.9	39.1	40.0	39.9	39.1
85°	20.6	20.0	20.0	19.6	20.0	19.3	19.1	20.3	22.2	22.2	21.5
87.5°	13.2	12.8	12.5	11.7	10.9	10.1	8.9	8.7	8.3	8.9	8.2
90°	23.6	22.7	20.0	17.3	14.5	11.8	9.4	7.3	5.1	3.0	1.0
92.5°	25.6	24.2	22.2	20.1	18.1	16.0	15.2	15.8	16.5	17.0	17.6
95°	30.8	29.4	27.1	24.7	22.4	20.1	23.2	31.9	40.5	49.2	57.8
97.5°	32.2	30.5	45.7	60.8	76.0	91.2	100.6	104.5	108.4	112.3	116.1
100°	32.9	31.2	64.1	96.9	129.8	162.6	176.9	172.7	168.5	164.3	160.0
102.5°	57.1	62.3	98.2	134.0	169.9	205.8	222.3	219.2	216.1	213.1	210.1
105°	170.2	207.4	226.4	245.3	264.2	283.2	291.6	289.2	286.9	284.6	282.3
107.5°	352.9	380.3	377.2	374.2	371.3	368.3	365.8	363.9	362.2	360.3	358.4
110°	420.3	427.2	424.9	422.6	420.3	417.9	416.0	414.3	412.5	410.9	409.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	475.1	474.9	472.6	470.3	468.0	465.7	463.7	462.3	460.7	459.2	457.7
115°	545.8	543.7	541.8	539.9	538.0	536.1	534.5	533.3	532.0	530.8	529.5
117.5°	612.0	610.4	609.4	608.5	607.5	606.5	605.3	603.7	602.1	600.5	599.0
120°	655.3	653.5	653.0	652.3	651.7	651.1	649.8	647.9	646.0	644.1	642.2
122.5°	698.0	696.8	695.9	695.2	694.4	693.6	692.4	690.8	689.3	687.7	686.2
125°	758.2	757.7	756.9	756.1	755.2	754.4	753.2	751.5	749.7	748.1	746.4
127.5°	817.6	816.8	815.9	814.9	813.8	812.9	811.5	809.8	808.1	806.4	804.8
130°	853.4	852.5	851.7	850.8	849.9	849.1	847.8	846.2	844.5	842.9	841.1
132.5°	887.5	886.6	885.9	885.3	884.6	883.9	882.7	881.0	879.4	877.7	876.0
135°	939.3	938.7	937.8	937.0	936.2	935.3	934.3	933.0	931.7	930.5	929.2
137.5°	985.0	984.0	983.5	983.1	982.6	982.1	981.1	979.5	977.9	976.3	974.7
140°	1014.4	1013.5	1012.9	1012.3	1011.6	1011.0	1010.1	1008.8	1007.5	1006.2	1005.0
142.5°	1042.3	1041.5	1041.0	1040.3	1039.7	1039.0	1038.1	1036.8	1035.6	1034.3	1033.1
145°	1081.2	1080.8	1080.4	1079.9	1079.5	1079.1	1078.2	1076.7	1075.2	1073.7	1072.3
147.5°	1115.9	1115.4	1115.0	1114.6	1114.2	1113.8	1113.0	1112.1	1111.2	1110.2	1109.2
150°	1137.1	1136.7	1136.3	1135.8	1135.4	1135.0	1134.5	1133.8	1133.2	1132.5	1132.0
152.5°	1155.6	1154.9	1154.6	1154.4	1154.1	1153.8	1153.6	1153.2	1153.0	1152.7	1152.4
155°	1181.3	1180.2	1180.1	1179.8	1179.6	1179.4	1179.5	1179.9	1180.3	1180.8	1181.2
157.5°	1203.7	1202.4	1202.6	1202.8	1203.1	1203.2	1203.4	1203.4	1203.5	1203.5	1203.5
160°	1216.6	1215.3	1215.5	1215.7	1215.9	1216.1	1216.3	1216.6	1216.8	1217.0	1217.2
162.5°	1228.1	1226.6	1226.9	1227.1	1227.3	1227.5	1227.8	1228.4	1229.0	1229.6	1230.0
165°	1243.5	1241.8	1242.0	1242.2	1242.4	1242.7	1243.1	1243.7	1244.3	1245.0	1245.6
167.5°	1255.6	1253.9	1253.9	1253.9	1253.9	1253.9	1254.3	1255.2	1256.1	1256.9	1257.8
170°	1262.4	1260.8	1260.8	1260.8	1260.8	1260.8	1261.2	1262.0	1262.9	1263.7	1264.5
172.5°	1267.0	1265.3	1265.1	1264.9	1264.8	1264.6	1265.0	1266.1	1267.1	1268.1	1269.1
175°	1272.7	1271.1	1271.0	1270.7	1270.6	1270.3	1270.7	1271.8	1272.8	1273.9	1275.0
177.5°	1274.8	1273.4	1273.3	1273.1	1272.9	1272.8	1273.1	1274.0	1274.8	1275.6	1276.5
180°	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0



TEST NUMBER: P332294-930

CATALOG NUMBER: S123RDIP-S560D1195U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	733.4	736.2	739.7	744.9	748.9	752.4	753.2	754.2	756.7	760.9	764.2
5°	738.3	745.4	756.9	768.2	780.4	790.4	799.7	806.3	812.5	825.7	836.3
7.5°	736.7	752.7	770.8	791.0	811.4	831.2	849.5	866.0	882.4	901.5	923.2
10°	735.7	754.5	778.8	804.7	833.2	861.0	887.8	908.7	933.1	955.0	982.8
12.5°	731.0	758.0	787.1	820.2	855.2	887.2	922.5	951.5	979.3	1010.9	1043.2
15°	724.8	757.6	794.4	838.5	891.5	930.3	966.5	1016.8	1051.1	1085.5	1131.7
17.5°	713.5	753.5	799.6	856.7	901.1	953.1	1007.5	1047.3	1093.6	1142.0	1183.8
20°	704.5	751.1	802.6	858.8	915.3	971.8	1024.6	1072.0	1119.8	1175.7	1210.1
22.5°	695.5	741.5	795.1	854.8	915.5	975.0	1034.8	1090.5	1144.3	1200.7	1244.6
25°	676.4	731.0	789.1	850.0	910.0	975.5	1046.8	1108.9	1175.4	1233.5	1275.0
27.5°	657.0	707.1	764.9	826.7	893.3	970.9	1054.6	1125.3	1191.9	1233.5	1246.5
30°	639.5	692.6	745.7	808.5	880.6	967.1	1056.1	1137.0	1191.6	1209.7	1196.3
32.5°	621.8	669.9	722.5	786.8	863.4	957.9	1058.1	1130.0	1162.9	1149.1	1094.4
35°	590.5	633.9	684.9	749.2	837.2	952.8	1049.9	1098.6	1090.5	1012.4	909.3
37.5°	557.0	592.4	639.5	706.8	810.1	932.5	1014.4	1021.6	951.3	831.4	712.4
40°	530.5	562.4	610.8	681.1	789.1	912.5	978.7	949.7	840.7	707.3	608.0
42.5°	504.8	531.7	578.3	654.1	769.2	885.3	925.4	862.2	736.5	610.3	520.1
45°	461.2	486.5	533.4	611.1	728.2	833.2	827.9	718.0	592.1	490.6	415.6
47.5°	419.9	442.0	486.0	565.3	680.2	755.0	705.4	588.5	481.7	400.3	346.8
50°	390.7	412.5	456.2	534.6	641.7	696.3	625.5	512.7	415.0	347.6	305.1
52.5°	362.6	384.0	424.0	500.3	595.3	627.9	551.8	447.3	365.8	307.6	271.1
55°	323.5	339.7	375.7	448.7	519.6	527.1	450.0	362.6	295.4	254.8	229.8
57.5°	283.6	297.6	333.0	391.3	441.0	437.1	363.9	288.4	243.1	213.0	194.9
60°	257.6	271.3	302.6	352.5	390.0	376.9	309.8	248.9	210.2	188.0	173.7
62.5°	233.4	244.1	273.4	309.8	336.8	322.0	264.8	214.4	183.7	165.0	153.6
65°	198.3	207.0	230.5	249.5	264.5	250.1	202.7	167.7	145.5	132.4	124.6
67.5°	164.9	170.5	185.3	192.2	202.8	187.0	152.4	129.0	116.3	105.3	99.9
70°	144.0	148.1	155.8	161.4	164.3	148.1	122.4	105.3	94.7	86.8	83.4
72.5°	122.9	126.5	128.1	132.7	131.3	116.0	98.4	84.8	77.1	71.8	67.4
75°	94.0	95.6	94.0	92.1	88.1	77.5	65.3	58.4	52.7	50.3	48.8
77.5°	68.5	68.0	65.9	62.9	56.0	49.3	42.8	40.4	38.1	36.7	36.2
80°	52.7	51.5	49.7	45.0	39.1	34.3	32.8	31.2	30.3	28.7	28.5
82.5°	39.3	38.6	35.4	31.5	27.3	25.1	23.8	23.2	22.3	21.5	21.4
85°	21.0	20.0	16.6	14.3	13.8	13.1	12.8	12.8	11.6	11.3	11.3
87.5°	7.3	6.3	6.4	6.1	6.6	6.7	7.4	7.5	7.8	8.2	7.9
90°	3.0	5.1	7.3	9.4	11.8	14.5	17.3	20.0	22.7	23.6	24.4
92.5°	17.0	16.5	15.8	15.2	16.0	18.1	20.1	22.2	24.2	25.6	26.9
95°	49.2	40.5	31.9	23.2	20.1	22.4	24.7	27.1	29.4	30.8	32.3
97.5°	112.3	108.4	104.5	100.6	91.2	76.0	60.8	45.7	30.5	32.2	33.8
100°	164.3	168.5	172.7	176.9	162.6	129.8	96.9	64.1	31.2	32.9	34.7
102.5°	213.1	216.1	219.2	222.3	205.8	169.9	134.0	98.2	62.3	57.1	51.9
105°	284.6	286.9	289.2	291.6	283.2	264.2	245.3	226.4	207.4	170.2	132.9
107.5°	360.3	362.2	363.9	365.8	368.3	371.3	374.2	377.2	380.3	352.9	325.5
110°	410.9	412.5	414.3	416.0	417.9	420.3	422.6	424.9	427.2	420.3	413.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	459.2	460.7	462.3	463.7	465.7	468.0	470.3	472.6	474.9	475.1	475.2
115°	530.8	532.0	533.3	534.5	536.1	538.0	539.9	541.8	543.7	545.8	547.9
117.5°	600.5	602.1	603.7	605.3	606.5	607.5	608.5	609.4	610.4	612.0	613.8
120°	644.1	646.0	647.9	649.8	651.1	651.7	652.3	653.0	653.5	655.3	657.0
122.5°	687.7	689.3	690.8	692.4	693.6	694.4	695.2	695.9	696.8	698.0	699.1
125°	748.1	749.7	751.5	753.2	754.4	755.2	756.1	756.9	757.7	758.2	758.6
127.5°	806.4	808.1	809.8	811.5	812.9	813.8	814.9	815.9	816.8	817.6	818.2
130°	842.9	844.5	846.2	847.8	849.1	849.9	850.8	851.7	852.5	853.4	854.2
132.5°	877.7	879.4	881.0	882.7	883.9	884.6	885.3	885.9	886.6	887.5	888.3
135°	930.5	931.7	933.0	934.3	935.3	936.2	937.0	937.8	938.7	939.3	940.0
137.5°	976.3	977.9	979.5	981.1	982.1	982.6	983.1	983.5	984.0	985.0	986.0
140°	1006.2	1007.5	1008.8	1010.1	1011.0	1011.6	1012.3	1012.9	1013.5	1014.4	1015.2
142.5°	1034.3	1035.6	1036.8	1038.1	1039.0	1039.7	1040.3	1041.0	1041.5	1042.3	1042.9
145°	1073.7	1075.2	1076.7	1078.2	1079.1	1079.5	1079.9	1080.4	1080.8	1081.2	1081.7
147.5°	1110.2	1111.2	1112.1	1113.0	1113.8	1114.2	1114.6	1115.0	1115.4	1115.9	1116.3
150°	1132.5	1133.2	1133.8	1134.5	1135.0	1135.4	1135.8	1136.3	1136.7	1137.1	1137.5
152.5°	1152.7	1153.0	1153.2	1153.6	1153.8	1154.1	1154.4	1154.6	1154.9	1155.6	1156.3
155°	1180.8	1180.3	1179.9	1179.5	1179.4	1179.6	1179.8	1180.1	1180.2	1181.3	1182.3
157.5°	1203.5	1203.5	1203.4	1203.4	1203.2	1203.1	1202.8	1202.6	1202.4	1203.7	1204.9
160°	1217.0	1216.8	1216.6	1216.3	1216.1	1215.9	1215.7	1215.5	1215.3	1216.6	1217.8
162.5°	1229.6	1229.0	1228.4	1227.8	1227.5	1227.3	1227.1	1226.9	1226.6	1228.1	1229.6
165°	1245.0	1244.3	1243.7	1243.1	1242.7	1242.4	1242.2	1242.0	1241.8	1243.5	1245.2
167.5°	1256.9	1256.1	1255.2	1254.3	1253.9	1253.9	1253.9	1253.9	1253.9	1255.6	1257.3
170°	1263.7	1262.9	1262.0	1261.2	1260.8	1260.8	1260.8	1260.8	1260.8	1262.4	1264.1
172.5°	1268.1	1267.1	1266.1	1265.0	1264.6	1264.8	1264.9	1265.1	1265.3	1267.0	1268.7
175°	1273.9	1272.8	1271.8	1270.7	1270.3	1270.6	1270.7	1271.0	1271.1	1272.7	1274.1
177.5°	1275.6	1274.8	1274.0	1273.1	1272.8	1272.9	1273.1	1273.3	1273.4	1274.8	1276.1
180°	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	729.4	729.4	729.4	729.4	729.4	729.4	729.4
2.5°	769.5	769.5	770.5	774.2	774.7	778.0	776.9
5°	845.6	851.6	853.8	863.2	868.8	871.2	866.3
7.5°	938.8	955.5	963.5	973.3	981.9	984.6	977.8
10°	1006.8	1024.3	1038.9	1048.0	1056.5	1062.0	1069.3
12.5°	1072.4	1094.0	1107.9	1120.7	1129.4	1136.5	1137.7
15°	1143.9	1176.3	1201.0	1219.1	1228.2	1232.9	1231.0
17.5°	1215.9	1245.9	1263.6	1282.0	1294.5	1295.2	1295.6
20°	1256.6	1286.0	1306.3	1320.0	1334.1	1333.4	1336.5
22.5°	1283.9	1306.9	1322.5	1332.4	1337.3	1334.9	1335.5
25°	1296.6	1303.4	1300.6	1284.7	1280.7	1266.0	1268.4
27.5°	1230.9	1198.4	1164.8	1121.5	1087.4	1060.2	1061.6
30°	1141.7	1084.2	1018.6	963.7	914.4	900.6	871.2
32.5°	1017.0	930.8	854.0	802.8	760.4	748.9	723.3
35°	805.7	721.9	642.9	595.5	576.7	550.6	550.2
37.5°	626.2	552.5	510.8	475.2	456.5	440.6	439.0
40°	526.8	469.4	437.8	412.2	393.8	381.9	379.1
42.5°	457.4	410.9	381.3	365.5	351.3	345.2	340.6
45°	373.5	342.3	321.6	307.3	300.7	296.0	293.5
47.5°	312.4	291.5	277.4	267.9	262.5	257.6	258.9
50°	279.2	262.0	251.7	242.6	238.6	235.1	235.5
52.5°	252.4	237.0	228.7	222.2	217.1	214.7	213.4
55°	214.3	204.6	196.1	191.4	188.6	185.2	184.3
57.5°	182.7	175.2	168.4	163.1	162.4	159.1	159.5
60°	161.8	155.5	149.9	147.1	144.9	142.1	143.0
62.5°	144.6	139.3	134.1	131.8	129.6	127.6	128.0
65°	118.4	113.3	110.2	109.0	108.0	107.1	106.2
67.5°	94.3	91.2	89.3	86.6	84.7	84.4	83.4
70°	79.3	75.3	71.8	68.4	67.4	67.1	67.4
72.5°	63.6	61.0	60.1	58.4	58.2	57.4	58.0
75°	47.8	46.9	46.2	45.0	45.0	45.0	45.0
77.5°	35.2	34.7	34.3	34.0	33.8	33.3	33.3
80°	27.5	27.1	26.6	26.6	26.3	26.6	26.3
82.5°	20.7	20.7	20.1	20.1	19.7	19.6	19.7
85°	10.6	10.3	10.9	10.3	10.6	10.0	10.6
87.5°	8.1	8.2	8.1	8.2	8.0	8.6	8.2
90°	25.3	26.1	26.7	27.1	27.6	28.0	28.5
92.5°	28.3	29.7	30.4	30.7	31.0	31.2	31.5
95°	33.8	35.2	36.0	36.0	36.0	36.0	36.0
97.5°	35.5	37.3	38.2	38.4	38.6	38.8	39.1
100°	36.3	38.0	39.0	39.1	39.4	39.5	39.8
102.5°	46.6	41.4	39.1	39.4	39.8	40.2	40.5
105°	95.6	58.4	40.0	40.4	40.8	41.3	41.7
107.5°	298.2	270.9	243.2	215.2	187.0	159.0	130.9
110°	406.3	399.4	380.9	350.8	320.7	290.6	260.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	475.3	475.5	472.3	465.9	459.6	453.2	446.9
115°	550.0	552.1	553.6	554.4	555.3	556.1	556.9
117.5°	615.5	617.1	618.1	618.2	618.4	618.6	618.7
120°	658.6	660.3	661.1	661.1	661.1	661.1	661.1
122.5°	700.3	701.5	702.1	702.3	702.5	702.7	702.9
125°	759.0	759.5	759.9	760.3	760.8	761.2	761.6
127.5°	818.9	819.5	819.7	819.3	818.9	818.5	818.0
130°	855.0	855.9	856.1	855.7	855.2	854.8	854.4
132.5°	889.2	890.0	890.1	889.5	888.9	888.4	887.7
135°	940.6	941.3	941.3	940.6	940.0	939.3	938.7
137.5°	987.0	988.0	988.3	987.9	987.5	987.1	986.6
140°	1016.0	1016.9	1017.1	1016.7	1016.3	1015.9	1015.5
142.5°	1043.6	1044.2	1044.3	1043.7	1043.1	1042.5	1042.0
145°	1082.1	1082.5	1082.6	1082.6	1082.6	1082.6	1082.6
147.5°	1116.7	1117.1	1116.9	1115.9	1114.9	1113.9	1113.0
150°	1137.9	1138.3	1138.2	1137.6	1137.0	1136.4	1135.7
152.5°	1157.2	1157.9	1157.8	1156.8	1155.8	1154.9	1153.9
155°	1183.4	1184.5	1184.3	1183.1	1181.9	1180.6	1179.3
157.5°	1206.2	1207.5	1207.3	1205.7	1204.0	1202.3	1200.7
160°	1219.0	1220.3	1220.3	1218.8	1217.3	1215.8	1214.3
162.5°	1230.9	1232.4	1232.4	1231.1	1229.8	1228.5	1227.2
165°	1246.8	1248.5	1248.6	1247.2	1245.7	1244.2	1242.8
167.5°	1259.0	1260.7	1260.7	1259.0	1257.3	1255.6	1253.9
170°	1265.8	1267.5	1267.5	1265.8	1264.1	1262.4	1260.8
172.5°	1270.3	1272.0	1271.9	1270.1	1268.3	1266.4	1264.5
175°	1275.6	1277.1	1276.9	1275.3	1273.6	1271.9	1270.2
177.5°	1277.5	1278.8	1278.6	1277.0	1275.3	1273.6	1271.9
180°	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0

(END OF REPORT)