

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: P332423-927

Luminaire Tested: **S123RDIW-S560D1320U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332423-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123RDIW-S560D1320U927-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1320 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

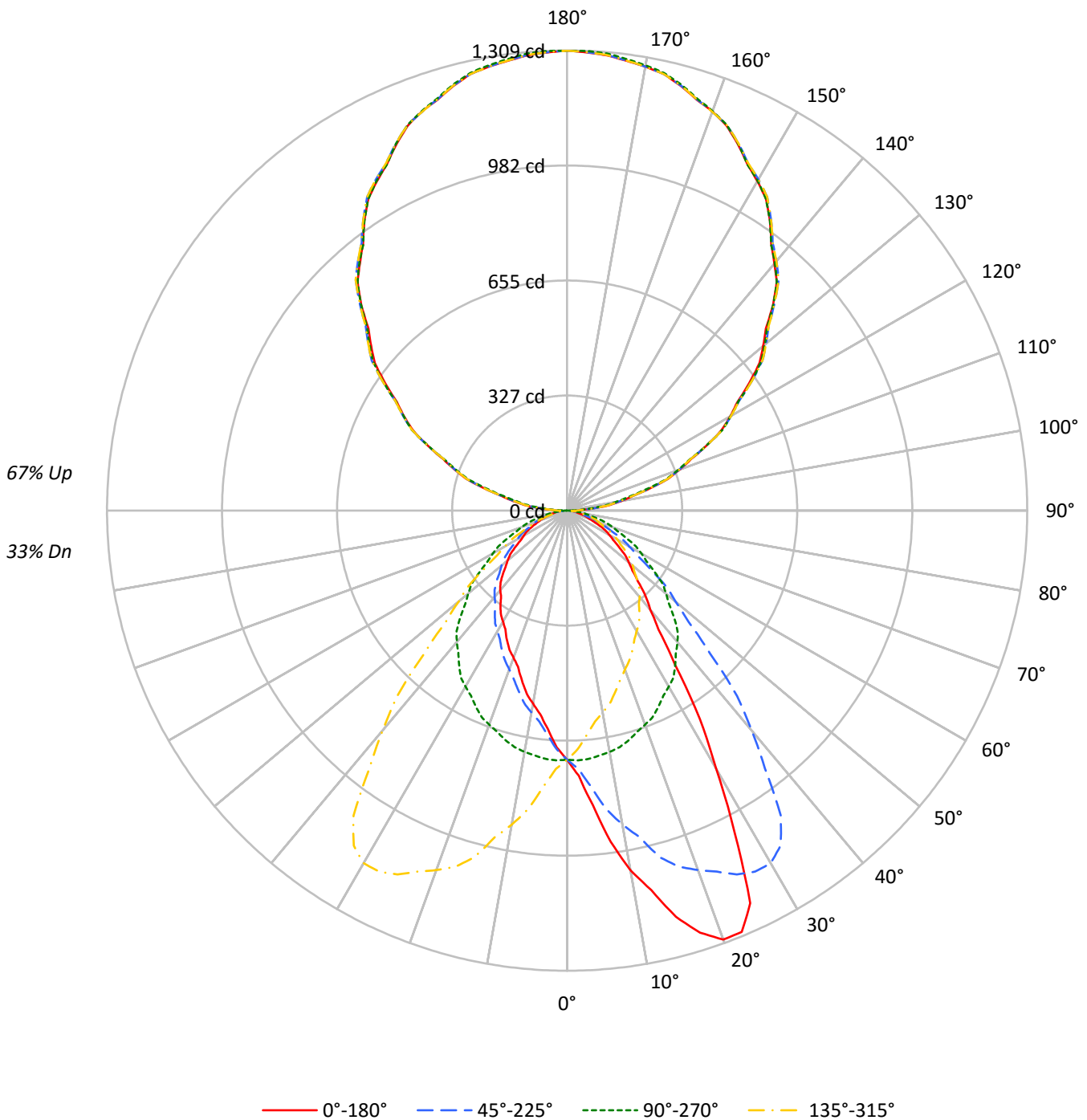
Lumens per Lamp: N/A  
Luminaire Lumens: 5392.5 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 53.8  
Input Voltage (V): 120  
Input Current (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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	87	83	85	81	78	76	65	63	61	50	49	48	36	35	35	28
2	86	79	73	69	77	72	67	63	57	54	51	44	42	40	32	31	30	24
3	79	70	63	58	71	63	57	53	51	47	43	40	37	34	29	27	26	21
4	72	62	55	49	65	56	50	45	45	41	37	35	32	30	26	24	23	18
5	66	55	48	42	60	50	44	39	41	36	32	32	29	26	24	22	20	16
6	61	50	42	36	55	45	38	34	37	32	28	29	25	23	22	19	18	14
7	56	45	37	32	51	41	34	30	33	28	25	26	23	20	20	17	16	13
8	52	41	33	28	47	37	31	26	30	26	22	24	21	18	18	16	14	12
9	49	37	30	25	44	34	28	23	28	23	20	22	19	16	17	14	13	11
10	45	34	27	22	41	31	25	21	26	21	18	20	17	15	16	13	12	10

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	7629	7629	7629	7629
5°	9095	7662	6748	7662
10°	11355	7618	6096	7618
15°	13329	7540	5558	7540
20°	14875	7424	5102	7424
25°	14638	7301	4822	7301
30°	10521	7188	4533	7188
35°	7025	7041	4346	7041
40°	5176	6864	4154	6864
45°	4341	6555	3962	6555
50°	3831	6149	3699	6149
55°	3359	5684	3337	5684
60°	2990	5240	3057	5240
65°	2626	4760	2845	4760
70°	2061	4337	2596	4337
75°	1817	3785	2371	3785
80°	1581	3217	2331	3217
85°	1272	2581	2470	2581



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.7	1.3
10°-20°	217.8	4.0
20°-30°	342.1	6.3
30°-40°	356.9	6.6
40°-50°	305.5	5.7
50°-60°	232.8	4.3
60°-70°	149.2	2.8
70°-80°	71.8	1.3
80°-90°	22.9	0.4
90°-100°	85.2	1.6
100°-110°	255.0	4.7
110°-120°	433.8	8.0
120°-130°	570.5	10.6
130°-140°	641.3	11.9
140°-150°	630.4	11.7
150°-160°	530.7	9.8
160°-170°	353.3	6.6
170°-180°	123.7	2.3
0°-30°	629.6	11.7
0°-40°	986.5	18.3
0°-60°	1524.8	28.3
0°-90°	1768.6	32.8
90°-120°	774.0	14.4
90°-150°	2616.2	48.5
90°-180°	3624.0	67.2
0°-180°	5392.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	709	709	709	709	709	
5°	842	709	624	709	842	87
15°	1196	677	499	677	1196	339
25°	1232	615	406	615	1232	530
35°	535	536	331	536	535	351
45°	285	431	260	431	285	224
55°	179	303	178	303	179	162
65°	103	187	112	187	103	101
75°	44	91	57	91	44	47
85°	10	21	20	21	10	13
90°	31	1	31	1	31	15
95°	80	61	80	61	80	82
105°	244	231	244	231	244	259
115°	438	437	438	437	438	433
125°	632	639	632	639	632	565
135°	828	829	828	829	828	637
145°	1006	1006	1006	1006	1006	628
155°	1150	1152	1150	1152	1150	529
165°	1250	1254	1250	1254	1250	353
175°	1300	1305	1300	1305	1300	123
180°	1308	1308	1308	1308	1308	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8
2.5°	754.9	755.9	752.7	752.3	748.6	747.7	747.7	742.5	739.3	735.2	732.8
5°	841.7	846.5	844.1	838.7	829.6	827.4	821.7	812.5	802.2	789.5	783.5
7.5°	950.1	956.7	954.1	945.7	936.2	928.4	912.2	897.1	875.9	857.4	841.5
10°	1038.9	1031.9	1026.5	1018.3	1009.5	995.2	978.3	954.9	927.9	906.7	883.0
12.5°	1105.4	1104.3	1097.3	1088.9	1076.5	1063.0	1042.0	1013.6	982.2	951.5	924.5
15°	1196.1	1197.9	1193.3	1184.6	1167.0	1143.0	1111.4	1099.6	1054.7	1021.3	987.9
17.5°	1258.9	1258.5	1257.8	1245.6	1227.7	1210.6	1181.4	1150.2	1109.6	1062.6	1017.6
20°	1298.6	1295.6	1296.2	1282.5	1269.2	1249.5	1221.0	1175.8	1142.4	1088.1	1041.6
22.5°	1297.7	1297.0	1299.3	1294.7	1285.0	1269.9	1247.4	1209.3	1166.6	1111.8	1059.6
25°	1232.5	1230.1	1244.4	1248.2	1263.8	1266.5	1259.8	1238.9	1198.5	1142.1	1077.4
27.5°	1031.5	1030.2	1056.6	1089.7	1131.8	1164.4	1196.0	1211.2	1198.5	1158.1	1093.4
30°	846.5	875.0	888.4	936.4	989.8	1053.4	1109.3	1162.4	1175.4	1157.9	1104.8
32.5°	702.8	727.7	738.9	780.1	829.8	904.4	988.2	1063.3	1116.5	1130.0	1098.0
35°	534.6	535.0	560.4	578.6	624.7	701.5	782.8	883.5	983.7	1059.5	1067.5
37.5°	426.6	428.1	443.5	461.7	496.3	536.9	608.5	692.2	807.9	924.3	992.6
40°	368.4	371.1	382.6	400.5	425.4	456.1	511.9	590.7	687.2	816.8	922.7
42.5°	331.0	335.4	341.4	355.1	370.5	399.3	444.4	505.3	593.0	715.6	837.7
45°	285.2	287.6	292.2	298.6	312.5	332.6	362.9	403.9	476.7	575.3	697.6
47.5°	251.6	250.3	255.1	260.3	269.6	283.2	303.6	337.0	389.0	468.0	571.8
50°	228.8	228.5	231.8	235.8	244.5	254.6	271.2	296.4	337.7	403.2	498.2
52.5°	207.4	208.6	211.0	215.9	222.2	230.3	245.3	263.4	298.9	355.5	434.6
55°	179.0	179.9	183.2	186.0	190.5	198.8	208.2	223.3	247.6	287.0	352.3
57.5°	155.0	154.6	157.8	158.4	163.6	170.2	177.5	189.3	206.9	236.2	280.2
60°	138.9	138.1	140.8	142.9	145.6	151.1	157.2	168.7	182.7	204.2	241.9
62.5°	124.4	124.0	126.0	128.1	130.3	135.3	140.5	149.2	160.3	178.5	208.3
65°	103.1	104.1	105.0	105.9	107.1	110.1	115.0	121.0	128.7	141.4	163.0
67.5°	81.0	82.0	82.3	84.1	86.7	88.6	91.7	97.0	102.3	113.0	125.3
70°	65.5	65.2	65.5	66.5	69.8	73.1	77.1	81.0	84.4	92.0	102.3
72.5°	56.3	55.8	56.6	56.7	58.4	59.3	61.8	65.5	69.8	74.9	82.4
75°	43.7	43.7	43.7	43.7	44.9	45.6	46.4	47.4	48.9	51.3	56.7
77.5°	32.3	32.3	32.8	33.0	33.4	33.7	34.2	35.2	35.6	37.0	39.3
80°	25.5	25.8	25.5	25.8	25.8	26.4	26.7	27.6	27.9	29.5	30.3
82.5°	19.2	19.0	19.2	19.5	19.5	20.1	20.1	20.8	20.9	21.6	22.6
85°	10.3	9.7	10.3	10.0	10.6	10.0	10.3	10.9	10.9	11.2	12.4
87.5°	8.6	9.0	8.4	8.6	8.5	8.6	8.4	8.2	8.5	8.1	7.8
90°	30.8	30.3	29.9	29.5	29.0	28.3	27.4	26.5	25.6	24.6	21.7
92.5°	41.5	41.7	42.1	42.3	42.6	42.4	41.7	40.9	40.2	39.5	37.8
95°	80.2	80.2	80.2	80.2	80.2	79.7	78.7	77.9	76.9	76.0	74.2
97.5°	123.3	123.4	123.5	123.6	123.7	123.2	122.2	121.0	120.0	119.0	117.6
100°	156.1	155.7	155.3	154.8	154.3	153.8	153.0	152.4	151.7	151.1	149.9
102.5°	189.9	190.0	190.0	190.1	190.2	190.0	189.3	188.5	187.9	187.2	185.7
105°	244.5	244.1	243.6	243.2	242.7	242.5	242.5	242.5	242.5	242.5	240.4
107.5°	301.4	301.7	302.0	302.3	302.5	302.3	301.6	300.9	300.2	299.4	298.6
110°	340.1	340.6	341.0	341.4	341.9	341.7	340.8	339.8	339.0	338.0	337.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	381.2	381.3	381.4	381.4	381.5	381.0	379.9	378.8	377.8	376.7	376.6
115°	437.7	437.9	438.2	438.4	438.6	438.6	438.4	438.2	437.9	437.7	438.2
117.5°	495.0	495.7	496.3	496.9	497.6	497.9	498.0	498.0	498.0	498.1	498.7
120°	535.3	535.8	536.2	536.7	537.1	537.5	537.7	537.9	538.1	538.4	539.6
122.5°	573.9	574.6	575.2	575.8	576.5	577.1	577.7	578.3	578.8	579.5	580.0
125°	631.8	632.8	633.7	634.6	635.6	636.4	637.4	638.3	639.2	640.1	640.6
127.5°	689.6	690.7	691.7	692.8	693.8	695.0	696.2	697.5	698.8	700.1	700.6
130°	727.5	729.0	730.6	732.2	733.8	735.1	736.0	736.9	737.8	738.7	739.4
132.5°	766.9	768.1	769.4	770.6	771.8	773.0	774.0	775.2	776.3	777.4	777.8
135°	828.1	828.5	829.0	829.5	830.0	830.6	831.6	832.4	833.4	834.2	834.5
137.5°	882.2	883.0	883.9	884.8	885.7	886.5	887.5	888.4	889.4	890.4	889.8
140°	917.5	919.1	920.7	922.3	923.9	924.8	925.0	925.3	925.5	925.7	925.5
142.5°	953.7	954.9	956.2	957.4	958.6	959.3	959.6	959.8	960.0	960.3	959.8
145°	1005.8	1006.8	1007.7	1008.6	1009.6	1010.1	1010.3	1010.5	1010.7	1011.0	1010.3
147.5°	1052.3	1053.7	1055.0	1056.5	1057.8	1058.4	1058.4	1058.4	1058.4	1058.4	1057.8
150°	1081.9	1083.2	1084.7	1086.0	1087.3	1088.1	1088.1	1088.1	1088.1	1088.1	1087.6
152.5°	1110.6	1111.8	1113.0	1114.2	1115.4	1115.8	1115.5	1115.1	1114.8	1114.4	1114.1
155°	1149.7	1151.3	1152.9	1154.5	1156.1	1156.4	1155.6	1154.6	1153.7	1152.8	1152.5
157.5°	1185.3	1186.5	1187.8	1189.1	1190.3	1190.6	1189.5	1188.6	1187.6	1186.7	1186.5
160°	1208.2	1209.2	1210.1	1211.0	1212.0	1211.8	1210.7	1209.5	1208.4	1207.2	1207.2
162.5°	1225.5	1227.0	1228.4	1229.9	1231.4	1231.5	1230.4	1229.2	1228.1	1226.9	1226.8
165°	1250.4	1252.0	1253.6	1255.2	1256.8	1256.9	1255.5	1254.2	1252.8	1251.4	1251.4
167.5°	1271.5	1273.0	1274.4	1275.8	1277.2	1277.2	1275.8	1274.4	1273.0	1271.5	1271.4
170°	1282.2	1283.8	1285.5	1287.1	1288.6	1288.6	1287.1	1285.5	1283.8	1282.2	1282.2
172.5°	1290.5	1292.0	1293.6	1295.3	1296.9	1297.0	1295.5	1294.1	1292.7	1291.3	1291.3
175°	1299.7	1301.3	1302.9	1304.5	1306.1	1306.2	1304.9	1303.5	1302.1	1300.8	1300.8
177.5°	1304.6	1305.9	1307.2	1308.4	1309.8	1309.9	1308.8	1307.7	1306.5	1305.4	1305.4
180°	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8
2.5°	731.8	731.1	727.7	723.8	718.7	715.3	712.6	711.2	706.9	701.5	697.8
5°	777.1	767.9	758.3	746.4	735.5	724.3	717.3	709.1	699.1	687.9	679.9
7.5°	825.5	807.6	788.4	768.6	748.9	731.3	715.8	702.5	686.6	670.5	659.2
10°	862.6	836.5	809.5	781.9	756.7	733.1	714.9	697.0	677.9	659.3	645.4
12.5°	896.4	862.1	830.9	796.9	764.8	736.5	710.3	689.2	666.2	646.5	630.6
15°	939.1	903.9	866.3	814.7	771.9	736.1	704.3	676.6	648.7	624.5	609.0
17.5°	979.0	926.1	875.5	832.4	776.9	732.1	693.2	660.2	629.6	603.9	584.8
20°	995.5	944.3	889.3	834.4	779.8	729.8	684.5	648.1	616.2	587.1	569.5
22.5°	1005.4	947.4	889.5	830.5	772.5	720.5	675.8	635.7	601.2	573.5	551.8
25°	1017.1	947.8	884.2	825.9	766.8	710.3	657.2	614.7	577.4	548.0	524.9
27.5°	1024.7	943.3	868.0	803.3	743.2	687.1	638.4	593.3	555.5	524.3	499.6
30°	1026.2	939.7	855.6	785.5	724.5	673.0	621.4	578.3	538.3	505.2	482.1
32.5°	1028.1	930.7	838.9	764.5	702.0	650.9	604.2	563.0	522.0	489.4	465.9
35°	1020.1	925.7	813.5	727.9	665.4	615.9	573.8	535.8	495.5	463.9	440.0
37.5°	985.6	906.0	787.1	686.7	621.4	575.6	541.2	508.2	471.2	437.1	414.5
40°	950.9	886.6	766.8	661.8	593.5	546.4	515.5	488.5	452.7	420.8	396.6
42.5°	899.2	860.2	747.3	635.6	561.9	516.6	490.5	465.2	433.8	401.4	378.6
45°	804.4	809.5	707.6	593.8	518.2	472.7	448.1	430.6	402.7	376.0	352.6
47.5°	685.4	733.6	660.9	549.3	472.2	429.4	408.0	392.6	373.8	347.6	326.3
50°	607.8	676.6	623.5	519.4	443.3	400.8	379.6	367.2	350.8	330.1	309.8
52.5°	536.1	610.1	578.4	486.2	412.0	373.1	352.4	342.1	329.2	309.7	291.4
55°	437.2	512.1	504.9	436.0	365.0	330.1	314.3	302.9	294.0	279.5	264.9
57.5°	353.6	424.7	428.5	380.2	323.6	289.1	275.6	266.9	261.1	250.2	236.7
60°	301.0	366.2	379.0	342.5	294.0	263.6	250.3	243.4	238.8	230.0	219.7
62.5°	257.3	312.8	327.3	301.0	265.6	237.2	226.8	220.1	217.0	209.4	200.3
65°	196.9	243.0	257.0	242.4	223.9	201.1	192.7	186.9	184.2	179.9	173.3
67.5°	148.1	181.7	197.0	186.7	180.1	165.6	160.3	157.2	154.7	151.9	146.2
70°	118.9	143.9	159.6	156.9	151.4	143.9	139.9	137.8	135.3	132.9	128.0
72.5°	95.6	112.7	127.5	129.0	124.5	122.9	119.5	118.6	117.1	114.2	111.5
75°	63.5	75.3	85.6	89.5	91.3	92.8	91.3	91.0	90.7	88.3	86.7
77.5°	41.6	47.9	54.4	61.2	64.0	66.1	66.5	67.7	66.9	65.6	64.9
80°	31.8	33.4	37.9	43.7	48.2	50.1	51.3	51.9	51.6	51.3	50.1
82.5°	23.1	24.4	26.5	30.6	34.4	37.5	38.2	38.0	38.7	38.9	37.9
85°	12.4	12.8	13.4	13.9	16.1	19.4	20.4	20.9	21.5	21.5	19.7
87.5°	7.6	6.8	6.7	6.2	6.4	6.2	7.2	8.0	8.6	8.2	8.6
90°	18.7	15.8	12.8	10.1	7.8	5.6	3.3	1.0	3.3	5.6	7.8
92.5°	36.0	34.4	32.7	31.1	29.5	28.0	26.4	24.9	26.4	28.0	29.5
95°	72.4	70.6	68.8	67.0	65.4	63.8	62.2	60.6	62.2	63.8	65.4
97.5°	116.3	115.0	113.7	112.4	111.2	110.0	108.8	107.7	108.8	110.0	111.2
100°	148.8	147.6	146.5	145.2	143.9	142.4	141.1	139.7	141.1	142.4	143.9
102.5°	184.2	182.7	181.2	180.0	179.2	178.4	177.5	176.7	177.5	178.4	179.2
105°	238.4	236.3	234.2	233.0	232.5	232.1	231.6	231.2	231.6	232.1	232.5
107.5°	297.8	296.9	296.1	295.6	295.3	295.0	294.8	294.5	294.8	295.0	295.3
110°	337.2	336.7	336.2	335.7	335.3	334.9	334.4	333.9	334.4	334.9	335.3





TEST NUMBER: P332423-927

CATALOG NUMBER: S123RDIW-S560D1320U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	376.4	376.4	376.3	376.1	375.8	375.6	375.3	375.0	375.3	375.6	375.8
115°	438.6	439.0	439.5	439.4	438.7	438.0	437.4	436.7	437.4	438.0	438.7
117.5°	499.3	499.9	500.5	500.6	500.1	499.6	499.2	498.8	499.2	499.6	500.1
120°	540.7	541.8	543.0	542.8	541.5	540.1	538.7	537.3	538.7	540.1	541.5
122.5°	580.7	581.2	581.9	581.6	580.7	579.6	578.6	577.7	578.6	579.6	580.7
125°	641.0	641.4	641.9	641.8	641.1	640.4	639.8	639.1	639.8	640.4	641.1
127.5°	701.1	701.6	702.1	701.6	700.1	698.7	697.3	695.8	697.3	698.7	700.1
130°	740.1	740.8	741.5	740.9	739.1	737.3	735.4	733.6	735.4	737.3	739.1
132.5°	778.4	778.9	779.3	778.7	776.9	775.1	773.2	771.4	773.2	775.1	776.9
135°	834.7	835.0	835.2	834.6	833.2	831.9	830.5	829.2	830.5	831.9	833.2
137.5°	889.2	888.6	888.0	887.2	886.0	884.9	883.7	882.6	883.7	884.9	886.0
140°	925.3	925.0	924.8	924.2	923.0	921.9	920.7	919.6	920.7	921.9	923.0
142.5°	959.4	959.0	958.6	957.8	956.7	955.5	954.4	953.2	954.4	955.5	956.7
145°	1009.6	1008.9	1008.3	1007.7	1007.3	1006.8	1006.3	1005.8	1006.3	1006.8	1007.3
147.5°	1057.2	1056.5	1055.9	1055.2	1054.4	1053.5	1052.7	1051.9	1052.7	1053.5	1054.4
150°	1087.1	1086.7	1086.2	1085.8	1085.3	1084.9	1084.4	1083.9	1084.4	1084.9	1085.3
152.5°	1113.8	1113.6	1113.3	1112.8	1112.1	1111.5	1110.9	1110.2	1110.9	1111.5	1112.1
155°	1152.3	1152.1	1151.9	1151.8	1151.8	1151.8	1151.8	1151.8	1151.8	1151.8	1151.8
157.5°	1186.3	1186.1	1186.0	1186.0	1186.3	1186.5	1186.8	1187.1	1186.8	1186.5	1186.3
160°	1207.2	1207.2	1207.2	1207.4	1207.9	1208.4	1208.9	1209.3	1208.9	1208.4	1207.9
162.5°	1226.6	1226.5	1226.2	1226.5	1227.1	1227.7	1228.4	1229.0	1228.4	1227.7	1227.1
165°	1251.4	1251.4	1251.4	1251.8	1252.4	1253.2	1253.8	1254.5	1253.8	1253.2	1252.4
167.5°	1271.2	1271.0	1270.8	1271.2	1272.1	1273.0	1273.9	1274.9	1273.9	1273.0	1272.1
170°	1282.2	1282.2	1282.2	1282.7	1283.7	1284.5	1285.5	1286.3	1285.5	1284.5	1283.7
172.5°	1291.3	1291.3	1291.3	1291.7	1292.7	1293.6	1294.5	1295.4	1294.5	1293.6	1292.7
175°	1300.8	1300.8	1300.8	1301.2	1302.1	1303.1	1303.9	1304.9	1303.9	1303.1	1302.1
177.5°	1305.4	1305.4	1305.4	1305.8	1306.5	1307.3	1308.1	1308.8	1308.1	1307.3	1306.5
180°	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0



TEST NUMBER: P332423-927

CATALOG NUMBER: S123RDIW-S560D1320U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8
2.5°	696.6	693.5	691.3	686.4	683.3	679.9	676.5	678.7	678.4	678.2	678.2
5°	673.3	666.3	660.0	651.7	646.6	640.2	635.3	634.8	636.0	631.7	629.3
7.5°	650.1	640.6	631.5	622.5	612.9	605.2	600.5	598.3	595.2	592.6	589.8
10°	633.8	622.7	613.8	602.6	592.3	583.2	577.4	573.5	571.3	569.2	565.3
12.5°	617.1	606.1	594.8	582.2	572.4	561.8	557.5	553.1	549.0	546.6	541.2
15°	592.6	578.3	566.5	553.1	542.2	531.9	525.9	517.1	515.8	512.8	507.3
17.5°	568.0	552.5	536.2	526.3	514.0	503.3	494.0	491.1	482.4	479.1	474.4
20°	548.6	534.3	521.9	508.8	490.9	480.9	473.6	469.7	462.7	458.4	455.4
22.5°	531.9	517.3	503.0	487.7	472.9	461.8	456.4	450.3	446.5	440.5	437.2
25°	507.9	492.2	474.8	458.4	447.8	439.3	430.9	425.4	419.9	417.2	411.1
27.5°	480.1	463.7	447.5	435.1	422.0	413.6	405.9	401.1	394.5	389.9	386.6
30°	464.9	445.4	431.5	420.3	403.5	395.7	389.9	383.8	379.0	374.1	370.7
32.5°	447.1	429.4	416.1	402.3	389.4	380.9	373.4	368.0	363.9	359.3	356.0
35°	419.3	404.5	390.8	376.8	367.4	358.6	349.8	345.3	341.4	337.1	334.1
37.5°	394.2	380.3	367.3	354.1	342.5	335.3	328.2	324.7	319.4	316.6	313.5
40°	378.7	365.0	351.1	338.3	326.1	320.8	314.3	309.2	304.4	302.2	298.9
42.5°	361.7	348.0	336.3	322.5	312.6	305.1	299.3	293.7	290.0	286.9	285.0
45°	336.5	324.3	312.8	299.2	289.8	283.4	276.7	271.6	268.2	266.1	262.8
47.5°	312.0	299.9	288.2	276.3	267.2	259.9	253.3	249.6	245.3	242.6	240.3
50°	294.3	283.4	270.9	260.0	251.0	243.7	238.2	233.6	229.7	226.3	224.8
52.5°	278.1	266.4	255.6	245.5	235.9	227.6	222.7	217.9	214.9	211.0	209.3
55°	251.2	240.0	230.9	220.9	211.5	204.5	198.4	194.2	191.2	186.9	184.5
57.5°	226.0	215.9	205.1	196.5	186.7	180.9	175.8	170.0	166.4	163.0	160.7
60°	209.1	197.5	188.1	179.9	171.4	163.8	159.3	154.7	150.8	147.4	145.4
62.5°	191.3	181.3	172.4	163.4	155.7	149.0	143.8	139.9	136.5	134.4	132.2
65°	164.1	156.3	147.2	139.9	132.6	127.8	123.5	120.2	117.7	116.2	114.4
67.5°	139.2	131.5	123.6	116.4	111.5	107.8	105.0	102.2	101.0	99.0	97.8
70°	122.9	115.0	108.1	102.6	97.7	95.0	93.2	91.0	89.8	87.4	86.2
72.5°	105.2	99.5	94.4	89.9	86.0	83.6	81.3	78.7	76.7	74.1	72.8
75°	82.9	77.7	73.8	70.7	68.3	65.0	61.6	58.9	58.0	57.0	56.7
77.5°	61.3	58.1	55.2	52.7	49.7	47.2	46.5	45.9	45.7	45.2	45.2
80°	48.2	45.2	43.1	40.1	38.3	38.3	38.3	37.6	37.9	37.9	37.9
82.5°	35.9	33.0	31.9	30.8	30.5	30.7	30.7	30.8	30.7	31.1	30.9
85°	18.5	18.8	19.4	19.1	19.4	19.4	20.0	19.7	20.0	19.4	20.0
87.5°	8.8	10.1	10.9	11.7	12.6	12.9	13.4	13.5	13.9	14.2	14.3
90°	10.1	12.8	15.8	18.7	21.7	24.6	25.6	26.5	27.4	28.3	29.0
92.5°	31.1	32.7	34.4	36.0	37.8	39.5	40.2	40.9	41.7	42.4	42.6
95°	67.0	68.8	70.6	72.4	74.2	76.0	76.9	77.9	78.7	79.7	80.2
97.5°	112.4	113.7	115.0	116.3	117.6	119.0	120.0	121.0	122.2	123.2	123.7
100°	145.2	146.5	147.6	148.8	149.9	151.1	151.7	152.4	153.0	153.8	154.3
102.5°	180.0	181.2	182.7	184.2	185.7	187.2	187.9	188.5	189.3	190.0	190.2
105°	233.0	234.2	236.3	238.4	240.4	242.5	242.5	242.5	242.5	242.5	242.7
107.5°	295.6	296.1	296.9	297.8	298.6	299.4	300.2	300.9	301.6	302.3	302.5
110°	335.7	336.2	336.7	337.2	337.5	338.0	339.0	339.8	340.8	341.7	341.9



TEST NUMBER: P332423-927

CATALOG NUMBER: S123RDIW-S560D1320U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	376.1	376.3	376.4	376.4	376.6	376.7	377.8	378.8	379.9	381.0	381.5
115°	439.4	439.5	439.0	438.6	438.2	437.7	437.9	438.2	438.4	438.6	438.6
117.5°	500.6	500.5	499.9	499.3	498.7	498.1	498.0	498.0	498.0	497.9	497.6
120°	542.8	543.0	541.8	540.7	539.6	538.4	538.1	537.9	537.7	537.5	537.1
122.5°	581.6	581.9	581.2	580.7	580.0	579.5	578.8	578.3	577.7	577.1	576.5
125°	641.8	641.9	641.4	641.0	640.6	640.1	639.2	638.3	637.4	636.4	635.6
127.5°	701.6	702.1	701.6	701.1	700.6	700.1	698.8	697.5	696.2	695.0	693.8
130°	740.9	741.5	740.8	740.1	739.4	738.7	737.8	736.9	736.0	735.1	733.8
132.5°	778.7	779.3	778.9	778.4	777.8	777.4	776.3	775.2	774.0	773.0	771.8
135°	834.6	835.2	835.0	834.7	834.5	834.2	833.4	832.4	831.6	830.6	830.0
137.5°	887.2	888.0	888.6	889.2	889.8	890.4	889.4	888.4	887.5	886.5	885.7
140°	924.2	924.8	925.0	925.3	925.5	925.7	925.5	925.3	925.0	924.8	923.9
142.5°	957.8	958.6	959.0	959.4	959.8	960.3	960.0	959.8	959.6	959.3	958.6
145°	1007.7	1008.3	1008.9	1009.6	1010.3	1011.0	1010.7	1010.5	1010.3	1010.1	1009.6
147.5°	1055.2	1055.9	1056.5	1057.2	1057.8	1058.4	1058.4	1058.4	1058.4	1058.4	1057.8
150°	1085.8	1086.2	1086.7	1087.1	1087.6	1088.1	1088.1	1088.1	1088.1	1088.1	1087.3
152.5°	1112.8	1113.3	1113.6	1113.8	1114.1	1114.4	1114.8	1115.1	1115.5	1115.8	1115.4
155°	1151.8	1151.9	1152.1	1152.3	1152.5	1152.8	1153.7	1154.6	1155.6	1156.4	1156.1
157.5°	1186.0	1186.0	1186.1	1186.3	1186.5	1186.7	1187.6	1188.6	1189.5	1190.6	1190.3
160°	1207.4	1207.2	1207.2	1207.2	1207.2	1207.2	1208.4	1209.5	1210.7	1211.8	1212.0
162.5°	1226.5	1226.2	1226.5	1226.6	1226.8	1226.9	1228.1	1229.2	1230.4	1231.5	1231.4
165°	1251.8	1251.4	1251.4	1251.4	1251.4	1251.4	1252.8	1254.2	1255.5	1256.9	1256.8
167.5°	1271.2	1270.8	1271.0	1271.2	1271.4	1271.5	1273.0	1274.4	1275.8	1277.2	1277.2
170°	1282.7	1282.2	1282.2	1282.2	1282.2	1282.2	1283.8	1285.5	1287.1	1288.6	1288.6
172.5°	1291.7	1291.3	1291.3	1291.3	1291.3	1291.3	1292.7	1294.1	1295.5	1297.0	1296.9
175°	1301.2	1300.8	1300.8	1300.8	1300.8	1300.8	1302.1	1303.5	1304.9	1306.2	1306.1
177.5°	1305.8	1305.4	1305.4	1305.4	1305.4	1305.4	1306.5	1307.7	1308.8	1309.9	1309.8
180°	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0



TEST NUMBER: P332423-927

CATALOG NUMBER: S123RDIW-S560D1320U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8
2.5°	675.3	675.0	675.3	674.3	675.3	675.0	675.3	678.2	678.2	678.4	678.7
5°	628.4	628.0	627.2	624.5	627.2	628.0	628.4	629.3	631.7	636.0	634.8
7.5°	587.4	587.0	584.3	584.4	584.3	587.0	587.4	589.8	592.6	595.2	598.3
10°	563.2	563.5	559.8	557.7	559.8	563.5	563.2	565.3	569.2	571.3	573.5
12.5°	539.6	538.2	535.3	532.9	535.3	538.2	539.6	541.2	546.6	549.0	553.1
15°	508.5	505.5	498.2	498.8	498.2	505.5	508.5	507.3	512.8	515.8	517.1
17.5°	471.9	469.7	469.6	465.3	469.6	469.7	471.9	474.4	479.1	482.4	491.1
20°	450.6	449.1	449.6	445.4	449.6	449.1	450.6	455.4	458.4	462.7	469.7
22.5°	433.8	432.3	429.8	428.4	429.8	432.3	433.8	437.2	440.5	446.5	450.3
25°	409.3	406.9	404.5	406.0	404.5	406.9	409.3	411.1	417.2	419.9	425.4
27.5°	384.8	382.9	380.6	380.2	380.6	382.9	384.8	386.6	389.9	394.5	401.1
30°	369.2	367.4	366.2	364.7	366.2	367.4	369.2	370.7	374.1	379.0	383.8
32.5°	353.5	353.2	350.9	350.6	350.9	353.2	353.5	356.0	359.3	363.9	368.0
35°	332.9	331.1	330.4	330.7	330.4	331.1	332.9	334.1	337.1	341.4	345.3
37.5°	313.2	310.9	309.7	308.6	309.7	310.9	313.2	313.5	316.6	319.4	324.7
40°	299.2	296.8	296.1	295.6	296.1	296.8	299.2	298.9	302.2	304.4	309.2
42.5°	283.4	282.4	282.1	281.0	282.1	282.4	283.4	285.0	286.9	290.0	293.7
45°	261.8	261.6	259.8	260.3	259.8	261.6	261.8	262.8	266.1	268.2	271.6
47.5°	239.2	237.8	236.5	237.4	236.5	237.8	239.2	240.3	242.6	245.3	249.6
50°	223.6	223.0	220.3	220.9	220.3	223.0	223.6	224.8	226.3	229.7	233.6
52.5°	208.1	205.8	204.8	204.4	204.8	205.8	208.1	209.3	211.0	214.9	217.9
55°	182.4	179.6	178.4	177.8	178.4	179.6	182.4	184.5	186.9	191.2	194.2
57.5°	157.1	156.4	155.4	156.1	155.4	156.4	157.1	160.7	163.0	166.4	170.0
60°	142.3	142.3	142.3	142.0	142.3	142.3	142.3	145.4	147.4	150.8	154.7
62.5°	130.9	130.2	129.9	130.3	129.9	130.2	130.9	132.2	134.4	136.5	139.9
65°	113.4	113.2	111.9	111.7	111.9	113.2	113.4	114.4	116.2	117.7	120.2
67.5°	97.0	95.9	95.6	95.1	95.6	95.9	97.0	97.8	99.0	101.0	102.2
70°	84.7	84.1	82.2	82.5	82.2	84.1	84.7	86.2	87.4	89.8	91.0
72.5°	71.3	70.7	70.3	69.9	70.3	70.7	71.3	72.8	74.1	76.7	78.7
75°	56.4	56.2	55.8	57.0	55.8	56.2	56.4	56.7	57.0	58.0	58.9
77.5°	45.2	45.2	45.4	44.9	45.4	45.2	45.2	45.2	45.2	45.7	45.9
80°	37.9	37.9	37.6	37.6	37.6	37.9	37.9	37.9	37.9	37.9	37.6
82.5°	30.4	30.7	30.8	30.3	30.8	30.7	30.4	30.9	31.1	30.7	30.8
85°	20.0	19.7	20.4	20.0	20.4	19.7	20.0	20.0	19.4	20.0	19.7
87.5°	14.9	14.5	14.6	14.9	14.6	14.5	14.9	14.3	14.2	13.9	13.5
90°	29.5	29.9	30.3	30.8	30.3	29.9	29.5	29.0	28.3	27.4	26.5
92.5°	42.3	42.1	41.7	41.5	41.7	42.1	42.3	42.6	42.4	41.7	40.9
95°	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	79.7	78.7	77.9
97.5°	123.6	123.5	123.4	123.3	123.4	123.5	123.6	123.7	123.2	122.2	121.0
100°	154.8	155.3	155.7	156.1	155.7	155.3	154.8	154.3	153.8	153.0	152.4
102.5°	190.1	190.0	190.0	189.9	190.0	190.0	190.1	190.2	190.0	189.3	188.5
105°	243.2	243.6	244.1	244.5	244.1	243.6	243.2	242.7	242.5	242.5	242.5
107.5°	302.3	302.0	301.7	301.4	301.7	302.0	302.3	302.5	302.3	301.6	300.9
110°	341.4	341.0	340.6	340.1	340.6	341.0	341.4	341.9	341.7	340.8	339.8



TEST NUMBER: P332423-927

CATALOG NUMBER: S123RDIW-S560D1320U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	381.4	381.4	381.3	381.2	381.3	381.4	381.4	381.5	381.0	379.9	378.8
115°	438.4	438.2	437.9	437.7	437.9	438.2	438.4	438.6	438.6	438.4	438.2
117.5°	496.9	496.3	495.7	495.0	495.7	496.3	496.9	497.6	497.9	498.0	498.0
120°	536.7	536.2	535.8	535.3	535.8	536.2	536.7	537.1	537.5	537.7	537.9
122.5°	575.8	575.2	574.6	573.9	574.6	575.2	575.8	576.5	577.1	577.7	578.3
125°	634.6	633.7	632.8	631.8	632.8	633.7	634.6	635.6	636.4	637.4	638.3
127.5°	692.8	691.7	690.7	689.6	690.7	691.7	692.8	693.8	695.0	696.2	697.5
130°	732.2	730.6	729.0	727.5	729.0	730.6	732.2	733.8	735.1	736.0	736.9
132.5°	770.6	769.4	768.1	766.9	768.1	769.4	770.6	771.8	773.0	774.0	775.2
135°	829.5	829.0	828.5	828.1	828.5	829.0	829.5	830.0	830.6	831.6	832.4
137.5°	884.8	883.9	883.0	882.2	883.0	883.9	884.8	885.7	886.5	887.5	888.4
140°	922.3	920.7	919.1	917.5	919.1	920.7	922.3	923.9	924.8	925.0	925.3
142.5°	957.4	956.2	954.9	953.7	954.9	956.2	957.4	958.6	959.3	959.6	959.8
145°	1008.6	1007.7	1006.8	1005.8	1006.8	1007.7	1008.6	1009.6	1010.1	1010.3	1010.5
147.5°	1056.5	1055.0	1053.7	1052.3	1053.7	1055.0	1056.5	1057.8	1058.4	1058.4	1058.4
150°	1086.0	1084.7	1083.2	1081.9	1083.2	1084.7	1086.0	1087.3	1088.1	1088.1	1088.1
152.5°	1114.2	1113.0	1111.8	1110.6	1111.8	1113.0	1114.2	1115.4	1115.8	1115.5	1115.1
155°	1154.5	1152.9	1151.3	1149.7	1151.3	1152.9	1154.5	1156.1	1156.4	1155.6	1154.6
157.5°	1189.1	1187.8	1186.5	1185.3	1186.5	1187.8	1189.1	1190.3	1190.6	1189.5	1188.6
160°	1211.0	1210.1	1209.2	1208.2	1209.2	1210.1	1211.0	1212.0	1211.8	1210.7	1209.5
162.5°	1229.9	1228.4	1227.0	1225.5	1227.0	1228.4	1229.9	1231.4	1231.5	1230.4	1229.2
165°	1255.2	1253.6	1252.0	1250.4	1252.0	1253.6	1255.2	1256.8	1256.9	1255.5	1254.2
167.5°	1275.8	1274.4	1273.0	1271.5	1273.0	1274.4	1275.8	1277.2	1277.2	1275.8	1274.4
170°	1287.1	1285.5	1283.8	1282.2	1283.8	1285.5	1287.1	1288.6	1288.6	1287.1	1285.5
172.5°	1295.3	1293.6	1292.0	1290.5	1292.0	1293.6	1295.3	1296.9	1297.0	1295.5	1294.1
175°	1304.5	1302.9	1301.3	1299.7	1301.3	1302.9	1304.5	1306.1	1306.2	1304.9	1303.5
177.5°	1308.4	1307.2	1305.9	1304.6	1305.9	1307.2	1308.4	1309.8	1309.9	1308.8	1307.7
180°	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0



TEST NUMBER: P332423-927

CATALOG NUMBER: S123RDIW-S560D1320U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8
2.5°	676.5	679.9	683.3	686.4	691.3	693.5	696.6	697.8	701.5	706.9	711.2
5°	635.3	640.2	646.6	651.7	660.0	666.3	673.3	679.9	687.9	699.1	709.1
7.5°	600.5	605.2	612.9	622.5	631.5	640.6	650.1	659.2	670.5	686.6	702.5
10°	577.4	583.2	592.3	602.6	613.8	622.7	633.8	645.4	659.3	677.9	697.0
12.5°	557.5	561.8	572.4	582.2	594.8	606.1	617.1	630.6	646.5	666.2	689.2
15°	525.9	531.9	542.2	553.1	566.5	578.3	592.6	609.0	624.5	648.7	676.6
17.5°	494.0	503.3	514.0	526.3	536.2	552.5	568.0	584.8	603.9	629.6	660.2
20°	473.6	480.9	490.9	508.8	521.9	534.3	548.6	569.5	587.1	616.2	648.1
22.5°	456.4	461.8	472.9	487.7	503.0	517.3	531.9	551.8	573.5	601.2	635.7
25°	430.9	439.3	447.8	458.4	474.8	492.2	507.9	524.9	548.0	577.4	614.7
27.5°	405.9	413.6	422.0	435.1	447.5	463.7	480.1	499.6	524.3	555.5	593.3
30°	389.9	395.7	403.5	420.3	431.5	445.4	464.9	482.1	505.2	538.3	578.3
32.5°	373.4	380.9	389.4	402.3	416.1	429.4	447.1	465.9	489.4	522.0	563.0
35°	349.8	358.6	367.4	376.8	390.8	404.5	419.3	440.0	463.9	495.5	535.8
37.5°	328.2	335.3	342.5	354.1	367.3	380.3	394.2	414.5	437.1	471.2	508.2
40°	314.3	320.8	326.1	338.3	351.1	365.0	378.7	396.6	420.8	452.7	488.5
42.5°	299.3	305.1	312.6	322.5	336.3	348.0	361.7	378.6	401.4	433.8	465.2
45°	276.7	283.4	289.8	299.2	312.8	324.3	336.5	352.6	376.0	402.7	430.6
47.5°	253.3	259.9	267.2	276.3	288.2	299.9	312.0	326.3	347.6	373.8	392.6
50°	238.2	243.7	251.0	260.0	270.9	283.4	294.3	309.8	330.1	350.8	367.2
52.5°	222.7	227.6	235.9	245.5	255.6	266.4	278.1	291.4	309.7	329.2	342.1
55°	198.4	204.5	211.5	220.9	230.9	240.0	251.2	264.9	279.5	294.0	302.9
57.5°	175.8	180.9	186.7	196.5	205.1	215.9	226.0	236.7	250.2	261.1	266.9
60°	159.3	163.8	171.4	179.9	188.1	197.5	209.1	219.7	230.0	238.8	243.4
62.5°	143.8	149.0	155.7	163.4	172.4	181.3	191.3	200.3	209.4	217.0	220.1
65°	123.5	127.8	132.6	139.9	147.2	156.3	164.1	173.3	179.9	184.2	186.9
67.5°	105.0	107.8	111.5	116.4	123.6	131.5	139.2	146.2	151.9	154.7	157.2
70°	93.2	95.0	97.7	102.6	108.1	115.0	122.9	128.0	132.9	135.3	137.8
72.5°	81.3	83.6	86.0	89.9	94.4	99.5	105.2	111.5	114.2	117.1	118.6
75°	61.6	65.0	68.3	70.7	73.8	77.7	82.9	86.7	88.3	90.7	91.0
77.5°	46.5	47.2	49.7	52.7	55.2	58.1	61.3	64.9	65.6	66.9	67.7
80°	38.3	38.3	38.3	40.1	43.1	45.2	48.2	50.1	51.3	51.6	51.9
82.5°	30.7	30.7	30.5	30.8	31.9	33.0	35.9	37.9	38.9	38.7	38.0
85°	20.0	19.4	19.4	19.1	19.4	18.8	18.5	19.7	21.5	21.5	20.9
87.5°	13.4	12.9	12.6	11.7	10.9	10.1	8.8	8.6	8.2	8.6	8.0
90°	25.6	24.6	21.7	18.7	15.8	12.8	10.1	7.8	5.6	3.3	1.0
92.5°	40.2	39.5	37.8	36.0	34.4	32.7	31.1	29.5	28.0	26.4	24.9
95°	76.9	76.0	74.2	72.4	70.6	68.8	67.0	65.4	63.8	62.2	60.6
97.5°	120.0	119.0	117.6	116.3	115.0	113.7	112.4	111.2	110.0	108.8	107.7
100°	151.7	151.1	149.9	148.8	147.6	146.5	145.2	143.9	142.4	141.1	139.7
102.5°	187.9	187.2	185.7	184.2	182.7	181.2	180.0	179.2	178.4	177.5	176.7
105°	242.5	242.5	240.4	238.4	236.3	234.2	233.0	232.5	232.1	231.6	231.2
107.5°	300.2	299.4	298.6	297.8	296.9	296.1	295.6	295.3	295.0	294.8	294.5
110°	339.0	338.0	337.5	337.2	336.7	336.2	335.7	335.3	334.9	334.4	333.9



TEST NUMBER: P332423-927

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	377.8	376.7	376.6	376.4	376.4	376.3	376.1	375.8	375.6	375.3	375.0
115°	437.9	437.7	438.2	438.6	439.0	439.5	439.4	438.7	438.0	437.4	436.7
117.5°	498.0	498.1	498.7	499.3	499.9	500.5	500.6	500.1	499.6	499.2	498.8
120°	538.1	538.4	539.6	540.7	541.8	543.0	542.8	541.5	540.1	538.7	537.3
122.5°	578.8	579.5	580.0	580.7	581.2	581.9	581.6	580.7	579.6	578.6	577.7
125°	639.2	640.1	640.6	641.0	641.4	641.9	641.8	641.1	640.4	639.8	639.1
127.5°	698.8	700.1	700.6	701.1	701.6	702.1	701.6	700.1	698.7	697.3	695.8
130°	737.8	738.7	739.4	740.1	740.8	741.5	740.9	739.1	737.3	735.4	733.6
132.5°	776.3	777.4	777.8	778.4	778.9	779.3	778.7	776.9	775.1	773.2	771.4
135°	833.4	834.2	834.5	834.7	835.0	835.2	834.6	833.2	831.9	830.5	829.2
137.5°	889.4	890.4	889.8	889.2	888.6	888.0	887.2	886.0	884.9	883.7	882.6
140°	925.5	925.7	925.5	925.3	925.0	924.8	924.2	923.0	921.9	920.7	919.6
142.5°	960.0	960.3	959.8	959.4	959.0	958.6	957.8	956.7	955.5	954.4	953.2
145°	1010.7	1011.0	1010.3	1009.6	1008.9	1008.3	1007.7	1007.3	1006.8	1006.3	1005.8
147.5°	1058.4	1058.4	1057.8	1057.2	1056.5	1055.9	1055.2	1054.4	1053.5	1052.7	1051.9
150°	1088.1	1088.1	1087.6	1087.1	1086.7	1086.2	1085.8	1085.3	1084.9	1084.4	1083.9
152.5°	1114.8	1114.4	1114.1	1113.8	1113.6	1113.3	1112.8	1112.1	1111.5	1110.9	1110.2
155°	1153.7	1152.8	1152.5	1152.3	1152.1	1151.9	1151.8	1151.8	1151.8	1151.8	1151.8
157.5°	1187.6	1186.7	1186.5	1186.3	1186.1	1186.0	1186.0	1186.3	1186.5	1186.8	1187.1
160°	1208.4	1207.2	1207.2	1207.2	1207.2	1207.2	1207.4	1207.9	1208.4	1208.9	1209.3
162.5°	1228.1	1226.9	1226.8	1226.6	1226.5	1226.2	1226.5	1227.1	1227.7	1228.4	1229.0
165°	1252.8	1251.4	1251.4	1251.4	1251.4	1251.4	1251.8	1252.4	1253.2	1253.8	1254.5
167.5°	1273.0	1271.5	1271.4	1271.2	1271.0	1270.8	1271.2	1272.1	1273.0	1273.9	1274.9
170°	1283.8	1282.2	1282.2	1282.2	1282.2	1282.2	1282.7	1283.7	1284.5	1285.5	1286.3
172.5°	1292.7	1291.3	1291.3	1291.3	1291.3	1291.3	1291.7	1292.7	1293.6	1294.5	1295.4
175°	1302.1	1300.8	1300.8	1300.8	1300.8	1300.8	1301.2	1302.1	1303.1	1303.9	1304.9
177.5°	1306.5	1305.4	1305.4	1305.4	1305.4	1305.4	1305.8	1306.5	1307.3	1308.1	1308.8
180°	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0



TEST NUMBER: P332423-927

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8
2.5°	712.6	715.3	718.7	723.8	727.7	731.1	731.8	732.8	735.2	739.3	742.5
5°	717.3	724.3	735.5	746.4	758.3	767.9	777.1	783.5	789.5	802.2	812.5
7.5°	715.8	731.3	748.9	768.6	788.4	807.6	825.5	841.5	857.4	875.9	897.1
10°	714.9	733.1	756.7	781.9	809.5	836.5	862.6	883.0	906.7	927.9	954.9
12.5°	710.3	736.5	764.8	796.9	830.9	862.1	896.4	924.5	951.5	982.2	1013.6
15°	704.3	736.1	771.9	814.7	866.3	903.9	939.1	987.9	1021.3	1054.7	1099.6
17.5°	693.2	732.1	776.9	832.4	875.5	926.1	979.0	1017.6	1062.6	1109.6	1150.2
20°	684.5	729.8	779.8	834.4	889.3	944.3	995.5	1041.6	1088.1	1142.4	1175.8
22.5°	675.8	720.5	772.5	830.5	889.5	947.4	1005.4	1059.6	1111.8	1166.6	1209.3
25°	657.2	710.3	766.8	825.9	884.2	947.8	1017.1	1077.4	1142.1	1198.5	1238.9
27.5°	638.4	687.1	743.2	803.3	868.0	943.3	1024.7	1093.4	1158.1	1198.5	1211.2
30°	621.4	673.0	724.5	785.5	855.6	939.7	1026.2	1104.8	1157.9	1175.4	1162.4
32.5°	604.2	650.9	702.0	764.5	838.9	930.7	1028.1	1098.0	1130.0	1116.5	1063.3
35°	573.8	615.9	665.4	727.9	813.5	925.7	1020.1	1067.5	1059.5	983.7	883.5
37.5°	541.2	575.6	621.4	686.7	787.1	906.0	985.6	992.6	924.3	807.9	692.2
40°	515.5	546.4	593.5	661.8	766.8	886.6	950.9	922.7	816.8	687.2	590.7
42.5°	490.5	516.6	561.9	635.6	747.3	860.2	899.2	837.7	715.6	593.0	505.3
45°	448.1	472.7	518.2	593.8	707.6	809.5	804.4	697.6	575.3	476.7	403.9
47.5°	408.0	429.4	472.2	549.3	660.9	733.6	685.4	571.8	468.0	389.0	337.0
50°	379.6	400.8	443.3	519.4	623.5	676.6	607.8	498.2	403.2	337.7	296.4
52.5°	352.4	373.1	412.0	486.2	578.4	610.1	536.1	434.6	355.5	298.9	263.4
55°	314.3	330.1	365.0	436.0	504.9	512.1	437.2	352.3	287.0	247.6	223.3
57.5°	275.6	289.1	323.6	380.2	428.5	424.7	353.6	280.2	236.2	206.9	189.3
60°	250.3	263.6	294.0	342.5	379.0	366.2	301.0	241.9	204.2	182.7	168.7
62.5°	226.8	237.2	265.6	301.0	327.3	312.8	257.3	208.3	178.5	160.3	149.2
65°	192.7	201.1	223.9	242.4	257.0	243.0	196.9	163.0	141.4	128.7	121.0
67.5°	160.3	165.6	180.1	186.7	197.0	181.7	148.1	125.3	113.0	102.3	97.0
70°	139.9	143.9	151.4	156.9	159.6	143.9	118.9	102.3	92.0	84.4	81.0
72.5°	119.5	122.9	124.5	129.0	127.5	112.7	95.6	82.4	74.9	69.8	65.5
75°	91.3	92.8	91.3	89.5	85.6	75.3	63.5	56.7	51.3	48.9	47.4
77.5°	66.5	66.1	64.0	61.2	54.4	47.9	41.6	39.3	37.0	35.6	35.2
80°	51.3	50.1	48.2	43.7	37.9	33.4	31.8	30.3	29.5	27.9	27.6
82.5°	38.2	37.5	34.4	30.6	26.5	24.4	23.1	22.6	21.6	20.9	20.8
85°	20.4	19.4	16.1	13.9	13.4	12.8	12.4	12.4	11.2	10.9	10.9
87.5°	7.2	6.2	6.4	6.2	6.7	6.8	7.6	7.8	8.1	8.5	8.2
90°	3.3	5.6	7.8	10.1	12.8	15.8	18.7	21.7	24.6	25.6	26.5
92.5°	26.4	28.0	29.5	31.1	32.7	34.4	36.0	37.8	39.5	40.2	40.9
95°	62.2	63.8	65.4	67.0	68.8	70.6	72.4	74.2	76.0	76.9	77.9
97.5°	108.8	110.0	111.2	112.4	113.7	115.0	116.3	117.6	119.0	120.0	121.0
100°	141.1	142.4	143.9	145.2	146.5	147.6	148.8	149.9	151.1	151.7	152.4
102.5°	177.5	178.4	179.2	180.0	181.2	182.7	184.2	185.7	187.2	187.9	188.5
105°	231.6	232.1	232.5	233.0	234.2	236.3	238.4	240.4	242.5	242.5	242.5
107.5°	294.8	295.0	295.3	295.6	296.1	296.9	297.8	298.6	299.4	300.2	300.9
110°	334.4	334.9	335.3	335.7	336.2	336.7	337.2	337.5	338.0	339.0	339.8





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	375.3	375.6	375.8	376.1	376.3	376.4	376.4	376.6	376.7	377.8	378.8
115°	437.4	438.0	438.7	439.4	439.5	439.0	438.6	438.2	437.7	437.9	438.2
117.5°	499.2	499.6	500.1	500.6	500.5	499.9	499.3	498.7	498.1	498.0	498.0
120°	538.7	540.1	541.5	542.8	543.0	541.8	540.7	539.6	538.4	538.1	537.9
122.5°	578.6	579.6	580.7	581.6	581.9	581.2	580.7	580.0	579.5	578.8	578.3
125°	639.8	640.4	641.1	641.8	641.9	641.4	641.0	640.6	640.1	639.2	638.3
127.5°	697.3	698.7	700.1	701.6	702.1	701.6	701.1	700.6	700.1	698.8	697.5
130°	735.4	737.3	739.1	740.9	741.5	740.8	740.1	739.4	738.7	737.8	736.9
132.5°	773.2	775.1	776.9	778.7	779.3	778.9	778.4	777.8	777.4	776.3	775.2
135°	830.5	831.9	833.2	834.6	835.2	835.0	834.7	834.5	834.2	833.4	832.4
137.5°	883.7	884.9	886.0	887.2	888.0	888.6	889.2	889.8	890.4	889.4	888.4
140°	920.7	921.9	923.0	924.2	924.8	925.0	925.3	925.5	925.7	925.5	925.3
142.5°	954.4	955.5	956.7	957.8	958.6	959.0	959.4	959.8	960.3	960.0	959.8
145°	1006.3	1006.8	1007.3	1007.7	1008.3	1008.9	1009.6	1010.3	1011.0	1010.7	1010.5
147.5°	1052.7	1053.5	1054.4	1055.2	1055.9	1056.5	1057.2	1057.8	1058.4	1058.4	1058.4
150°	1084.4	1084.9	1085.3	1085.8	1086.2	1086.7	1087.1	1087.6	1088.1	1088.1	1088.1
152.5°	1110.9	1111.5	1112.1	1112.8	1113.3	1113.6	1113.8	1114.1	1114.4	1114.8	1115.1
155°	1151.8	1151.8	1151.8	1151.8	1151.9	1152.1	1152.3	1152.5	1152.8	1153.7	1154.6
157.5°	1186.8	1186.5	1186.3	1186.0	1186.0	1186.1	1186.3	1186.5	1186.7	1187.6	1188.6
160°	1208.9	1208.4	1207.9	1207.4	1207.2	1207.2	1207.2	1207.2	1207.2	1208.4	1209.5
162.5°	1228.4	1227.7	1227.1	1226.5	1226.2	1226.5	1226.6	1226.8	1226.9	1228.1	1229.2
165°	1253.8	1253.2	1252.4	1251.8	1251.4	1251.4	1251.4	1251.4	1251.4	1252.8	1254.2
167.5°	1273.9	1273.0	1272.1	1271.2	1270.8	1271.0	1271.2	1271.4	1271.5	1273.0	1274.4
170°	1285.5	1284.5	1283.7	1282.7	1282.2	1282.2	1282.2	1282.2	1282.2	1283.8	1285.5
172.5°	1294.5	1293.6	1292.7	1291.7	1291.3	1291.3	1291.3	1291.3	1291.3	1292.7	1294.1
175°	1303.9	1303.1	1302.1	1301.2	1300.8	1300.8	1300.8	1300.8	1300.8	1302.1	1303.5
177.5°	1308.1	1307.3	1306.5	1305.8	1305.4	1305.4	1305.4	1305.4	1305.4	1306.5	1307.7
180°	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	708.8	708.8	708.8	708.8	708.8	708.8	708.8
2.5°	747.7	747.7	748.6	752.3	752.7	755.9	754.9
5°	821.7	827.4	829.6	838.7	844.1	846.5	841.7
7.5°	912.2	928.4	936.2	945.7	954.1	956.7	950.1
10°	978.3	995.2	1009.5	1018.3	1026.5	1031.9	1038.9
12.5°	1042.0	1063.0	1076.5	1088.9	1097.3	1104.3	1105.4
15°	1111.4	1143.0	1167.0	1184.6	1193.3	1197.9	1196.1
17.5°	1181.4	1210.6	1227.7	1245.6	1257.8	1258.5	1258.9
20°	1221.0	1249.5	1269.2	1282.5	1296.2	1295.6	1298.6
22.5°	1247.4	1269.9	1285.0	1294.7	1299.3	1297.0	1297.7
25°	1259.8	1266.5	1263.8	1248.2	1244.4	1230.1	1232.5
27.5°	1196.0	1164.4	1131.8	1089.7	1056.6	1030.2	1031.5
30°	1109.3	1053.4	989.8	936.4	888.4	875.0	846.5
32.5°	988.2	904.4	829.8	780.1	738.9	727.7	702.8
35°	782.8	701.5	624.7	578.6	560.4	535.0	534.6
37.5°	608.5	536.9	496.3	461.7	443.5	428.1	426.6
40°	511.9	456.1	425.4	400.5	382.6	371.1	368.4
42.5°	444.4	399.3	370.5	355.1	341.4	335.4	331.0
45°	362.9	332.6	312.5	298.6	292.2	287.6	285.2
47.5°	303.6	283.2	269.6	260.3	255.1	250.3	251.6
50°	271.2	254.6	244.5	235.8	231.8	228.5	228.8
52.5°	245.3	230.3	222.2	215.9	211.0	208.6	207.4
55°	208.2	198.8	190.5	186.0	183.2	179.9	179.0
57.5°	177.5	170.2	163.6	158.4	157.8	154.6	155.0
60°	157.2	151.1	145.6	142.9	140.8	138.1	138.9
62.5°	140.5	135.3	130.3	128.1	126.0	124.0	124.4
65°	115.0	110.1	107.1	105.9	105.0	104.1	103.1
67.5°	91.7	88.6	86.7	84.1	82.3	82.0	81.0
70°	77.1	73.1	69.8	66.5	65.5	65.2	65.5
72.5°	61.8	59.3	58.4	56.7	56.6	55.8	56.3
75°	46.4	45.6	44.9	43.7	43.7	43.7	43.7
77.5°	34.2	33.7	33.4	33.0	32.8	32.3	32.3
80°	26.7	26.4	25.8	25.8	25.5	25.8	25.5
82.5°	20.1	20.1	19.5	19.5	19.2	19.0	19.2
85°	10.3	10.0	10.6	10.0	10.3	9.7	10.3
87.5°	8.4	8.6	8.5	8.6	8.4	9.0	8.6
90°	27.4	28.3	29.0	29.5	29.9	30.3	30.8
92.5°	41.7	42.4	42.6	42.3	42.1	41.7	41.5
95°	78.7	79.7	80.2	80.2	80.2	80.2	80.2
97.5°	122.2	123.2	123.7	123.6	123.5	123.4	123.3
100°	153.0	153.8	154.3	154.8	155.3	155.7	156.1
102.5°	189.3	190.0	190.2	190.1	190.0	190.0	189.9
105°	242.5	242.5	242.7	243.2	243.6	244.1	244.5
107.5°	301.6	302.3	302.5	302.3	302.0	301.7	301.4
110°	340.8	341.7	341.9	341.4	341.0	340.6	340.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	379.9	381.0	381.5	381.4	381.4	381.3	381.2
115°	438.4	438.6	438.6	438.4	438.2	437.9	437.7
117.5°	498.0	497.9	497.6	496.9	496.3	495.7	495.0
120°	537.7	537.5	537.1	536.7	536.2	535.8	535.3
122.5°	577.7	577.1	576.5	575.8	575.2	574.6	573.9
125°	637.4	636.4	635.6	634.6	633.7	632.8	631.8
127.5°	696.2	695.0	693.8	692.8	691.7	690.7	689.6
130°	736.0	735.1	733.8	732.2	730.6	729.0	727.5
132.5°	774.0	773.0	771.8	770.6	769.4	768.1	766.9
135°	831.6	830.6	830.0	829.5	829.0	828.5	828.1
137.5°	887.5	886.5	885.7	884.8	883.9	883.0	882.2
140°	925.0	924.8	923.9	922.3	920.7	919.1	917.5
142.5°	959.6	959.3	958.6	957.4	956.2	954.9	953.7
145°	1010.3	1010.1	1009.6	1008.6	1007.7	1006.8	1005.8
147.5°	1058.4	1058.4	1057.8	1056.5	1055.0	1053.7	1052.3
150°	1088.1	1088.1	1087.3	1086.0	1084.7	1083.2	1081.9
152.5°	1115.5	1115.8	1115.4	1114.2	1113.0	1111.8	1110.6
155°	1155.6	1156.4	1156.1	1154.5	1152.9	1151.3	1149.7
157.5°	1189.5	1190.6	1190.3	1189.1	1187.8	1186.5	1185.3
160°	1210.7	1211.8	1212.0	1211.0	1210.1	1209.2	1208.2
162.5°	1230.4	1231.5	1231.4	1229.9	1228.4	1227.0	1225.5
165°	1255.5	1256.9	1256.8	1255.2	1253.6	1252.0	1250.4
167.5°	1275.8	1277.2	1277.2	1275.8	1274.4	1273.0	1271.5
170°	1287.1	1288.6	1288.6	1287.1	1285.5	1283.8	1282.2
172.5°	1295.5	1297.0	1296.9	1295.3	1293.6	1292.0	1290.5
175°	1304.9	1306.2	1306.1	1304.5	1302.9	1301.3	1299.7
177.5°	1308.8	1309.9	1309.8	1308.4	1307.2	1305.9	1304.6
180°	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0	1308.0

(END OF REPORT)