

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: P332403-927

Luminaire Tested: **S123RDIW-S340D1320U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332403-927
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-S340D1320U927-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 340 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: 4701.2 lumens
Efficiency: N/A
Efficacy: 100.9 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

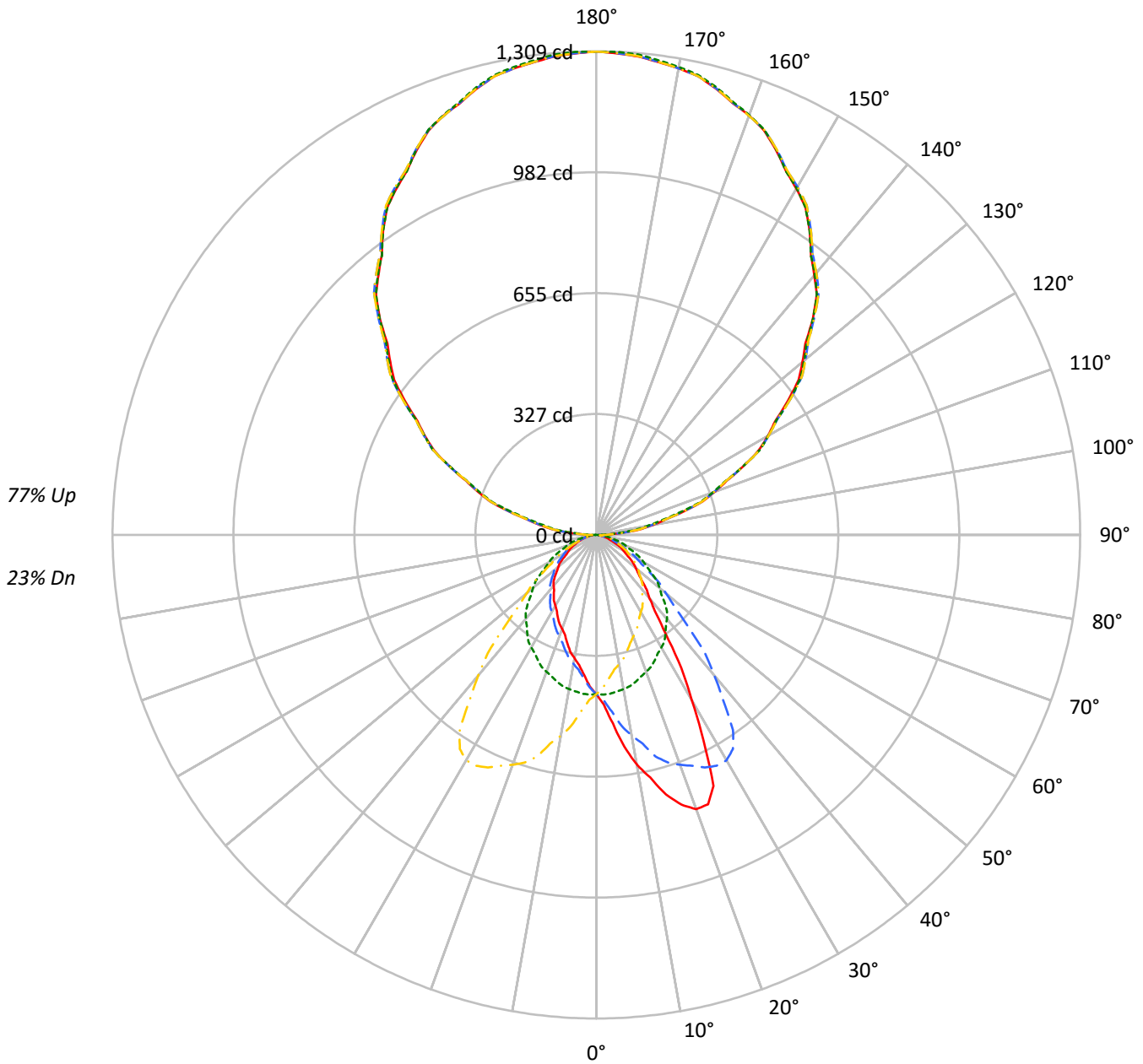
Input Watts (W): 46.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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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	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31	23
1	92	88	84	81	82	78	75	73	60	58	56	43	42	41	28	27	27	20
2	84	77	71	67	74	69	64	60	53	50	47	38	36	35	25	24	23	17
3	77	68	61	56	68	61	55	50	47	43	40	34	32	30	22	21	20	15
4	70	60	53	47	62	54	47	43	42	37	34	30	28	25	20	19	17	13
5	64	53	46	40	57	48	41	37	37	33	29	27	24	22	18	16	15	11
6	59	48	40	35	52	43	36	32	33	29	25	25	22	19	17	15	13	10
7	55	43	36	30	48	39	32	28	30	26	22	22	19	17	15	13	12	9
8	51	39	32	27	45	35	29	24	28	23	20	21	17	15	14	12	11	8
9	47	35	28	24	42	32	26	22	25	21	18	19	16	14	13	11	10	7
10	44	32	26	21	39	29	23	19	23	19	16	17	14	12	12	10	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4640	4640	4640	4640
5°	5532	4660	4105	4660
10°	6907	4634	3707	4634
15°	8107	4586	3381	4586
20°	9049	4515	3103	4515
25°	8904	4441	2932	4441
30°	6400	4373	2757	4373
35°	4273	4282	2643	4282
40°	3147	4175	2525	4175
45°	2641	3987	2411	3987
50°	2331	3739	2251	3739
55°	2044	3457	2029	3457
60°	1819	3186	1858	3186
65°	1597	2896	1729	2896
70°	1253	2637	1580	2637
75°	1102	2304	1443	2304
80°	961	1953	1420	1953
85°	778	1581	1507	1581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.4	0.9
10°-20°	132.5	2.8
20°-30°	208.1	4.4
30°-40°	217.1	4.6
40°-50°	185.8	4.0
50°-60°	141.6	3.0
60°-70°	90.8	1.9
70°-80°	43.7	0.9
80°-90°	15.4	0.3
90°-100°	85.2	1.8
100°-110°	255.0	5.4
110°-120°	433.8	9.2
120°-130°	570.5	12.1
130°-140°	641.3	13.6
140°-150°	630.4	13.4
150°-160°	530.7	11.3
160°-170°	353.3	7.5
170°-180°	123.7	2.6
0°-30°	382.9	8.1
0°-40°	600.1	12.8
0°-60°	927.5	19.7
0°-90°	1077.3	22.9
90°-120°	774.0	16.5
90°-150°	2616.2	55.7
90°-180°	3624.0	77.1
0°-180°	4701.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	431	431	431	431	431	
5°	512	431	380	431	512	53
15°	728	412	303	412	728	206
25°	750	374	247	374	750	322
35°	325	326	201	326	325	213
45°	174	262	158	262	174	136
55°	109	184	108	184	109	98
65°	63	114	68	114	63	62
75°	26	55	35	55	26	28
85°	6	13	12	13	6	8
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°	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	459.2	459.8	457.9	457.6	455.3	454.8	454.8	451.6	449.7	447.3	445.8
5°	512.0	514.9	513.4	510.2	504.6	503.3	499.8	494.2	488.0	480.2	476.6
7.5°	577.9	581.9	580.4	575.3	569.4	564.7	554.8	545.7	532.8	521.5	511.8
10°	631.9	627.7	624.4	619.4	614.0	605.4	595.0	580.8	564.4	551.4	537.1
12.5°	672.4	671.7	667.5	662.3	654.8	646.6	633.8	616.6	597.5	578.8	562.3
15°	727.5	728.6	725.9	720.6	709.8	695.2	676.0	668.8	641.5	621.2	600.9
17.5°	765.7	765.5	765.1	757.7	746.8	736.4	718.6	699.7	674.9	646.3	619.0
20°	790.0	788.1	788.5	780.1	772.1	760.0	742.7	715.2	694.9	661.9	633.6
22.5°	789.3	788.9	790.4	787.5	781.6	772.5	758.8	735.5	709.6	676.3	644.5
25°	749.7	748.2	756.9	759.3	768.7	770.4	766.3	753.6	729.0	694.7	655.4
27.5°	627.4	626.6	642.7	662.9	688.4	708.3	727.5	736.7	729.0	704.4	665.0
30°	514.9	532.3	540.4	569.6	602.1	640.8	674.8	707.0	715.0	704.3	672.0
32.5°	427.5	442.7	449.5	474.4	504.8	550.2	601.1	646.8	679.1	687.3	667.9
35°	325.2	325.3	340.9	352.0	380.0	426.7	476.2	537.4	598.3	644.5	649.3
37.5°	259.5	260.4	269.8	280.8	301.9	326.5	370.1	421.0	491.4	562.2	603.8
40°	224.0	225.7	232.7	243.6	258.7	277.4	311.3	359.3	418.0	496.9	561.3
42.5°	201.3	204.0	207.6	216.0	225.4	242.9	270.3	307.4	360.8	435.3	509.6
45°	173.5	175.0	177.8	181.6	190.1	202.2	220.7	245.7	289.9	349.9	424.3
47.5°	153.0	152.3	155.2	158.3	164.0	172.3	184.7	204.9	236.5	284.7	347.8
50°	139.2	138.9	141.0	143.4	148.8	154.9	165.0	180.3	205.4	245.3	303.1
52.5°	126.2	126.8	128.3	131.3	135.1	140.1	149.2	160.3	181.8	216.2	264.4
55°	108.9	109.5	111.5	113.1	115.9	120.9	126.6	135.9	150.6	174.6	214.3
57.5°	94.3	94.0	95.9	96.4	99.5	103.5	108.0	115.2	125.9	143.7	170.4
60°	84.5	84.0	85.6	86.9	88.6	91.9	95.6	102.6	111.1	124.2	147.1
62.5°	75.7	75.4	76.6	78.0	79.3	82.3	85.4	90.8	97.5	108.5	126.7
65°	62.7	63.3	63.8	64.4	65.1	67.0	69.9	73.7	78.3	86.0	99.1
67.5°	49.4	49.9	50.1	51.2	52.8	53.9	55.8	59.0	62.3	68.8	76.2
70°	39.8	39.7	39.8	40.4	42.5	44.4	46.9	49.3	51.3	55.9	62.2
72.5°	34.2	33.9	34.4	34.5	35.5	36.0	37.5	39.8	42.5	45.6	50.1
75°	26.5	26.5	26.5	26.5	27.3	27.6	28.2	28.8	29.7	31.2	34.5
77.5°	19.6	19.6	20.0	20.1	20.3	20.5	20.8	21.4	21.7	22.5	23.9
80°	15.5	15.7	15.5	15.7	15.7	16.1	16.2	16.8	17.0	17.9	18.5
82.5°	11.6	11.6	11.6	11.9	11.9	12.2	12.3	12.7	12.7	13.2	13.7
85°	6.3	5.9	6.3	6.1	6.5	6.1	6.3	6.7	6.7	6.8	7.6
87.5°	7.6	7.8	7.4	7.5	7.4	7.4	7.3	7.1	7.2	6.8	6.4
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°	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	445.1	444.7	442.7	440.3	437.2	435.1	433.5	432.6	429.9	426.7	424.5
5°	472.7	467.1	461.2	454.0	447.3	440.5	436.3	431.3	425.2	418.4	413.6
7.5°	502.1	491.2	479.6	467.5	455.6	444.9	435.4	427.3	417.6	407.8	401.0
10°	524.7	508.8	492.4	475.6	460.3	445.9	434.8	424.0	412.3	401.1	392.5
12.5°	545.3	524.3	505.4	484.7	465.2	448.0	432.1	419.2	405.2	393.2	383.6
15°	571.2	549.8	527.0	495.5	469.5	447.7	428.3	411.5	394.6	379.9	370.4
17.5°	595.5	563.3	532.5	506.4	472.5	445.4	421.7	401.6	382.9	367.3	355.7
20°	605.5	574.3	541.0	507.6	474.4	443.9	416.4	394.2	374.9	357.1	346.4
22.5°	611.6	576.3	541.1	505.2	469.9	438.2	411.1	386.7	365.7	348.9	335.6
25°	618.6	576.6	537.8	502.4	466.4	432.1	399.7	373.9	351.3	333.4	319.3
27.5°	623.3	573.8	528.0	488.6	452.1	418.0	388.3	360.9	337.9	318.9	303.9
30°	624.2	571.6	520.5	477.8	440.8	409.3	378.0	351.8	327.4	307.3	293.3
32.5°	625.3	566.1	510.2	465.0	427.0	395.9	367.5	342.5	317.5	297.7	283.4
35°	620.5	563.1	494.8	442.8	404.7	374.6	349.0	325.9	301.4	282.2	267.6
37.5°	599.5	551.1	478.8	417.7	378.0	350.1	329.2	309.1	286.6	265.9	252.2
40°	578.5	539.3	466.4	402.5	361.0	332.4	313.5	297.1	275.4	256.0	241.2
42.5°	547.0	523.2	454.6	386.6	341.8	314.3	298.3	283.0	263.9	244.2	230.3
45°	489.3	492.4	430.4	361.2	315.2	287.6	272.6	261.9	244.9	228.7	214.4
47.5°	416.9	446.2	402.0	334.1	287.2	261.3	248.2	238.8	227.4	211.4	198.4
50°	369.7	411.5	379.3	316.0	269.7	243.8	230.9	223.3	213.3	200.8	188.5
52.5°	326.1	371.1	351.8	295.7	250.6	227.0	214.4	208.1	200.2	188.4	177.2
55°	265.9	311.6	307.1	265.2	222.0	200.8	191.2	184.2	178.9	170.0	161.1
57.5°	215.2	258.3	260.6	231.2	196.9	175.9	167.6	162.3	158.8	152.2	143.9
60°	183.1	222.8	230.5	208.3	178.9	160.4	152.3	148.0	145.3	139.9	133.6
62.5°	156.5	190.3	199.1	183.2	161.6	144.3	137.9	133.9	132.0	127.4	121.8
65°	119.8	147.8	156.3	147.5	136.2	122.4	117.2	113.7	112.0	109.5	105.4
67.5°	90.1	110.5	119.9	113.6	109.5	100.8	97.5	95.6	94.1	92.4	89.0
70°	72.3	87.5	97.0	95.5	92.1	87.5	85.1	83.8	82.3	80.8	77.9
72.5°	58.1	68.6	77.6	78.4	75.7	74.8	72.6	72.1	71.2	69.5	67.8
75°	38.6	45.8	52.0	54.4	55.5	56.5	55.5	55.4	55.2	53.7	52.8
77.5°	25.3	29.2	33.1	37.2	39.0	40.2	40.5	41.2	40.6	39.9	39.5
80°	19.4	20.3	23.1	26.5	29.3	30.4	31.2	31.5	31.4	31.2	30.4
82.5°	14.1	14.8	16.2	18.6	20.9	22.7	23.2	23.1	23.5	23.7	23.1
85°	7.6	7.8	8.2	8.5	9.7	11.8	12.4	12.8	13.1	13.1	12.0
87.5°	6.1	5.4	5.1	4.5	4.5	4.2	4.7	4.9	5.5	5.4	5.9
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: P332403-927

CATALOG NUMBER: S123RDIW-S340D1320U927-4F0-1E-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: P332403-927

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	423.7	421.8	420.5	417.6	415.7	413.6	411.5	412.8	412.6	412.6	412.6
5°	409.6	405.3	401.4	396.4	393.3	389.4	386.5	386.1	386.8	384.3	382.8
7.5°	395.5	389.7	384.1	378.7	372.8	368.1	365.3	363.8	362.0	360.4	358.8
10°	385.6	378.7	373.4	366.5	360.3	354.7	351.3	348.8	347.5	346.3	343.8
12.5°	375.3	368.7	361.9	354.1	348.2	341.7	339.1	336.4	334.0	332.5	329.2
15°	360.4	351.8	344.6	336.4	329.8	323.5	319.9	314.5	313.8	311.9	308.6
17.5°	345.5	336.1	326.1	320.1	312.7	306.1	300.5	298.7	293.4	291.4	288.5
20°	333.7	325.0	317.4	309.5	298.7	292.6	288.1	285.7	281.5	278.8	277.0
22.5°	323.5	314.7	305.9	296.7	287.7	280.8	277.6	273.9	271.6	267.9	265.9
25°	309.0	299.4	288.8	278.8	272.4	267.3	262.1	258.7	255.4	253.7	250.1
27.5°	292.1	282.0	272.2	264.6	256.7	251.6	246.9	244.0	240.0	237.2	235.1
30°	282.7	270.9	262.4	255.6	245.5	240.7	237.2	233.5	230.5	227.6	225.5
32.5°	272.0	261.2	253.2	244.7	236.9	231.6	227.1	223.9	221.3	218.6	216.5
35°	255.1	246.1	237.7	229.3	223.5	218.2	212.8	210.0	207.6	205.0	203.2
37.5°	239.8	231.3	223.4	215.4	208.3	203.9	199.6	197.5	194.2	192.5	190.7
40°	230.4	222.0	213.6	205.8	198.4	195.1	191.2	188.1	185.1	183.8	181.8
42.5°	220.0	211.7	204.5	196.2	190.1	185.6	182.0	178.6	176.4	174.5	173.4
45°	204.7	197.3	190.3	182.0	176.3	172.4	168.3	165.2	163.2	161.8	159.9
47.5°	189.8	182.4	175.3	168.1	162.6	158.1	154.0	151.9	149.2	147.6	146.2
50°	179.0	172.4	164.9	158.2	152.7	148.2	144.9	142.1	139.7	137.7	136.7
52.5°	169.1	162.1	155.5	149.3	143.5	138.5	135.5	132.5	130.7	128.4	127.3
55°	152.8	146.0	140.5	134.4	128.7	124.4	120.7	118.1	116.3	113.7	112.3
57.5°	137.5	131.3	124.8	119.5	113.6	110.0	106.9	103.5	101.2	99.2	97.7
60°	127.1	120.2	114.4	109.5	104.3	99.7	96.9	94.1	91.7	89.7	88.4
62.5°	116.4	110.3	104.8	99.4	94.7	90.6	87.5	85.2	83.0	81.8	80.4
65°	99.8	95.1	89.5	85.1	80.6	77.7	75.1	73.1	71.6	70.7	69.6
67.5°	84.6	80.0	75.2	70.8	67.8	65.6	63.9	62.2	61.4	60.2	59.5
70°	74.8	69.9	65.7	62.3	59.4	57.8	56.6	55.4	54.7	53.2	52.4
72.5°	64.0	60.5	57.4	54.7	52.4	50.9	49.4	47.8	46.7	45.0	44.3
75°	50.4	47.2	44.8	43.0	41.5	39.5	37.5	35.8	35.3	34.7	34.5
77.5°	37.3	35.3	33.6	32.0	30.2	28.8	28.3	27.9	27.8	27.5	27.5
80°	29.3	27.5	26.2	24.4	23.3	23.3	23.3	22.9	23.1	23.1	23.1
82.5°	21.8	20.1	19.4	18.8	18.5	18.7	18.7	18.8	18.6	18.9	18.8
85°	11.2	11.4	11.8	11.6	11.8	11.8	12.2	12.0	12.2	11.8	12.2
87.5°	6.2	7.1	7.8	8.6	9.3	9.8	10.1	10.3	10.6	10.9	10.9
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: P332403-927

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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: P332403-927

CATALOG NUMBER: S123RDIW-S340D1320U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	410.7	410.6	410.7	410.2	410.7	410.6	410.7	412.6	412.6	412.6	412.8
5°	382.2	382.1	381.5	379.9	381.5	382.1	382.2	382.8	384.3	386.8	386.1
7.5°	357.3	357.0	355.5	355.5	355.5	357.0	357.3	358.8	360.4	362.0	363.8
10°	342.5	342.7	340.5	339.2	340.5	342.7	342.5	343.8	346.3	347.5	348.8
12.5°	328.2	327.4	325.6	324.2	325.6	327.4	328.2	329.2	332.5	334.0	336.4
15°	309.3	307.4	303.1	303.4	303.1	307.4	309.3	308.6	311.9	313.8	314.5
17.5°	287.1	285.7	285.7	283.0	285.7	285.7	287.1	288.5	291.4	293.4	298.7
20°	274.1	273.1	273.5	270.9	273.5	273.1	274.1	277.0	278.8	281.5	285.7
22.5°	263.9	262.9	261.4	260.6	261.4	262.9	263.9	265.9	267.9	271.6	273.9
25°	249.0	247.5	246.1	246.9	246.1	247.5	249.0	250.1	253.7	255.4	258.7
27.5°	234.1	233.0	231.5	231.3	231.5	233.0	234.1	235.1	237.2	240.0	244.0
30°	224.6	223.5	222.8	221.8	222.8	223.5	224.6	225.5	227.6	230.5	233.5
32.5°	215.0	214.8	213.5	213.3	213.5	214.8	215.0	216.5	218.6	221.3	223.9
35°	202.5	201.4	201.0	201.1	201.0	201.4	202.5	203.2	205.0	207.6	210.0
37.5°	190.5	189.1	188.4	187.7	188.4	189.1	190.5	190.7	192.5	194.2	197.5
40°	182.0	180.5	180.1	179.7	180.1	180.5	182.0	181.8	183.8	185.1	188.1
42.5°	172.4	171.8	171.6	170.9	171.6	171.8	172.4	173.4	174.5	176.4	178.6
45°	159.3	159.1	158.0	158.4	158.0	159.1	159.3	159.9	161.8	163.2	165.2
47.5°	145.4	144.7	143.9	144.4	143.9	144.7	145.4	146.2	147.6	149.2	151.9
50°	136.0	135.6	134.0	134.4	134.0	135.6	136.0	136.7	137.7	139.7	142.1
52.5°	126.6	125.2	124.5	124.3	124.5	125.2	126.6	127.3	128.4	130.7	132.5
55°	110.9	109.2	108.5	108.1	108.5	109.2	110.9	112.3	113.7	116.3	118.1
57.5°	95.5	95.1	94.5	94.9	94.5	95.1	95.5	97.7	99.2	101.2	103.5
60°	86.6	86.6	86.6	86.3	86.6	86.6	86.6	88.4	89.7	91.7	94.1
62.5°	79.6	79.1	79.1	79.3	79.1	79.1	79.6	80.4	81.8	83.0	85.2
65°	69.0	68.8	68.1	67.9	68.1	68.8	69.0	69.6	70.7	71.6	73.1
67.5°	59.0	58.4	58.1	57.9	58.1	58.4	59.0	59.5	60.2	61.4	62.2
70°	51.5	51.1	50.0	50.2	50.0	51.1	51.5	52.4	53.2	54.7	55.4
72.5°	43.4	43.0	42.8	42.5	42.8	43.0	43.4	44.3	45.0	46.7	47.8
75°	34.3	34.1	34.0	34.7	34.0	34.1	34.3	34.5	34.7	35.3	35.8
77.5°	27.5	27.5	27.6	27.3	27.6	27.5	27.5	27.5	27.5	27.8	27.9
80°	23.1	23.1	22.9	22.9	22.9	23.1	23.1	23.1	23.1	23.1	22.9
82.5°	18.5	18.6	18.8	18.5	18.8	18.6	18.5	18.8	18.9	18.6	18.8
85°	12.2	12.0	12.4	12.2	12.4	12.0	12.2	12.2	11.8	12.2	12.0
87.5°	11.3	11.2	11.2	11.5	11.2	11.2	11.3	10.9	10.9	10.6	10.3
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: P332403-927

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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: P332403-927

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	411.5	413.6	415.7	417.6	420.5	421.8	423.7	424.5	426.7	429.9	432.6
5°	386.5	389.4	393.3	396.4	401.4	405.3	409.6	413.6	418.4	425.2	431.3
7.5°	365.3	368.1	372.8	378.7	384.1	389.7	395.5	401.0	407.8	417.6	427.3
10°	351.3	354.7	360.3	366.5	373.4	378.7	385.6	392.5	401.1	412.3	424.0
12.5°	339.1	341.7	348.2	354.1	361.9	368.7	375.3	383.6	393.2	405.2	419.2
15°	319.9	323.5	329.8	336.4	344.6	351.8	360.4	370.4	379.9	394.6	411.5
17.5°	300.5	306.1	312.7	320.1	326.1	336.1	345.5	355.7	367.3	382.9	401.6
20°	288.1	292.6	298.7	309.5	317.4	325.0	333.7	346.4	357.1	374.9	394.2
22.5°	277.6	280.8	287.7	296.7	305.9	314.7	323.5	335.6	348.9	365.7	386.7
25°	262.1	267.3	272.4	278.8	288.8	299.4	309.0	319.3	333.4	351.3	373.9
27.5°	246.9	251.6	256.7	264.6	272.2	282.0	292.1	303.9	318.9	337.9	360.9
30°	237.2	240.7	245.5	255.6	262.4	270.9	282.7	293.3	307.3	327.4	351.8
32.5°	227.1	231.6	236.9	244.7	253.2	261.2	272.0	283.4	297.7	317.5	342.5
35°	212.8	218.2	223.5	229.3	237.7	246.1	255.1	267.6	282.2	301.4	325.9
37.5°	199.6	203.9	208.3	215.4	223.4	231.3	239.8	252.2	265.9	286.6	309.1
40°	191.2	195.1	198.4	205.8	213.6	222.0	230.4	241.2	256.0	275.4	297.1
42.5°	182.0	185.6	190.1	196.2	204.5	211.7	220.0	230.3	244.2	263.9	283.0
45°	168.3	172.4	176.3	182.0	190.3	197.3	204.7	214.4	228.7	244.9	261.9
47.5°	154.0	158.1	162.6	168.1	175.3	182.4	189.8	198.4	211.4	227.4	238.8
50°	144.9	148.2	152.7	158.2	164.9	172.4	179.0	188.5	200.8	213.3	223.3
52.5°	135.5	138.5	143.5	149.3	155.5	162.1	169.1	177.2	188.4	200.2	208.1
55°	120.7	124.4	128.7	134.4	140.5	146.0	152.8	161.1	170.0	178.9	184.2
57.5°	106.9	110.0	113.6	119.5	124.8	131.3	137.5	143.9	152.2	158.8	162.3
60°	96.9	99.7	104.3	109.5	114.4	120.2	127.1	133.6	139.9	145.3	148.0
62.5°	87.5	90.6	94.7	99.4	104.8	110.3	116.4	121.8	127.4	132.0	133.9
65°	75.1	77.7	80.6	85.1	89.5	95.1	99.8	105.4	109.5	112.0	113.7
67.5°	63.9	65.6	67.8	70.8	75.2	80.0	84.6	89.0	92.4	94.1	95.6
70°	56.6	57.8	59.4	62.3	65.7	69.9	74.8	77.9	80.8	82.3	83.8
72.5°	49.4	50.9	52.4	54.7	57.4	60.5	64.0	67.8	69.5	71.2	72.1
75°	37.5	39.5	41.5	43.0	44.8	47.2	50.4	52.8	53.7	55.2	55.4
77.5°	28.3	28.8	30.2	32.0	33.6	35.3	37.3	39.5	39.9	40.6	41.2
80°	23.3	23.3	23.3	24.4	26.2	27.5	29.3	30.4	31.2	31.4	31.5
82.5°	18.7	18.7	18.5	18.8	19.4	20.1	21.8	23.1	23.7	23.5	23.1
85°	12.2	11.8	11.8	11.6	11.8	11.4	11.2	12.0	13.1	13.1	12.8
87.5°	10.1	9.8	9.3	8.6	7.8	7.1	6.2	5.9	5.4	5.5	4.9
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



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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: P332403-927

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	433.5	435.1	437.2	440.3	442.7	444.7	445.1	445.8	447.3	449.7	451.6
5°	436.3	440.5	447.3	454.0	461.2	467.1	472.7	476.6	480.2	488.0	494.2
7.5°	435.4	444.9	455.6	467.5	479.6	491.2	502.1	511.8	521.5	532.8	545.7
10°	434.8	445.9	460.3	475.6	492.4	508.8	524.7	537.1	551.4	564.4	580.8
12.5°	432.1	448.0	465.2	484.7	505.4	524.3	545.3	562.3	578.8	597.5	616.6
15°	428.3	447.7	469.5	495.5	527.0	549.8	571.2	600.9	621.2	641.5	668.8
17.5°	421.7	445.4	472.5	506.4	532.5	563.3	595.5	619.0	646.3	674.9	699.7
20°	416.4	443.9	474.4	507.6	541.0	574.3	605.5	633.6	661.9	694.9	715.2
22.5°	411.1	438.2	469.9	505.2	541.1	576.3	611.6	644.5	676.3	709.6	735.5
25°	399.7	432.1	466.4	502.4	537.8	576.6	618.6	655.4	694.7	729.0	753.6
27.5°	388.3	418.0	452.1	488.6	528.0	573.8	623.3	665.0	704.4	729.0	736.7
30°	378.0	409.3	440.8	477.8	520.5	571.6	624.2	672.0	704.3	715.0	707.0
32.5°	367.5	395.9	427.0	465.0	510.2	566.1	625.3	667.9	687.3	679.1	646.8
35°	349.0	374.6	404.7	442.8	494.8	563.1	620.5	649.3	644.5	598.3	537.4
37.5°	329.2	350.1	378.0	417.7	478.8	551.1	599.5	603.8	562.2	491.4	421.0
40°	313.5	332.4	361.0	402.5	466.4	539.3	578.5	561.3	496.9	418.0	359.3
42.5°	298.3	314.3	341.8	386.6	454.6	523.2	547.0	509.6	435.3	360.8	307.4
45°	272.6	287.6	315.2	361.2	430.4	492.4	489.3	424.3	349.9	289.9	245.7
47.5°	248.2	261.3	287.2	334.1	402.0	446.2	416.9	347.8	284.7	236.5	204.9
50°	230.9	243.8	269.7	316.0	379.3	411.5	369.7	303.1	245.3	205.4	180.3
52.5°	214.4	227.0	250.6	295.7	351.8	371.1	326.1	264.4	216.2	181.8	160.3
55°	191.2	200.8	222.0	265.2	307.1	311.6	265.9	214.3	174.6	150.6	135.9
57.5°	167.6	175.9	196.9	231.2	260.6	258.3	215.2	170.4	143.7	125.9	115.2
60°	152.3	160.4	178.9	208.3	230.5	222.8	183.1	147.1	124.2	111.1	102.6
62.5°	137.9	144.3	161.6	183.2	199.1	190.3	156.5	126.7	108.5	97.5	90.8
65°	117.2	122.4	136.2	147.5	156.3	147.8	119.8	99.1	86.0	78.3	73.7
67.5°	97.5	100.8	109.5	113.6	119.9	110.5	90.1	76.2	68.8	62.3	59.0
70°	85.1	87.5	92.1	95.5	97.0	87.5	72.3	62.2	55.9	51.3	49.3
72.5°	72.6	74.8	75.7	78.4	77.6	68.6	58.1	50.1	45.6	42.5	39.8
75°	55.5	56.5	55.5	54.4	52.0	45.8	38.6	34.5	31.2	29.7	28.8
77.5°	40.5	40.2	39.0	37.2	33.1	29.2	25.3	23.9	22.5	21.7	21.4
80°	31.2	30.4	29.3	26.5	23.1	20.3	19.4	18.5	17.9	17.0	16.8
82.5°	23.2	22.7	20.9	18.6	16.2	14.8	14.1	13.7	13.2	12.7	12.7
85°	12.4	11.8	9.7	8.5	8.2	7.8	7.6	7.6	6.8	6.7	6.7
87.5°	4.7	4.2	4.5	4.5	5.1	5.4	6.1	6.4	6.8	7.2	7.1
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°	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	454.8	454.8	455.3	457.6	457.9	459.8	459.2
5°	499.8	503.3	504.6	510.2	513.4	514.9	512.0
7.5°	554.8	564.7	569.4	575.3	580.4	581.9	577.9
10°	595.0	605.4	614.0	619.4	624.4	627.7	631.9
12.5°	633.8	646.6	654.8	662.3	667.5	671.7	672.4
15°	676.0	695.2	709.8	720.6	725.9	728.6	727.5
17.5°	718.6	736.4	746.8	757.7	765.1	765.5	765.7
20°	742.7	760.0	772.1	780.1	788.5	788.1	790.0
22.5°	758.8	772.5	781.6	787.5	790.4	788.9	789.3
25°	766.3	770.4	768.7	759.3	756.9	748.2	749.7
27.5°	727.5	708.3	688.4	662.9	642.7	626.6	627.4
30°	674.8	640.8	602.1	569.6	540.4	532.3	514.9
32.5°	601.1	550.2	504.8	474.4	449.5	442.7	427.5
35°	476.2	426.7	380.0	352.0	340.9	325.3	325.2
37.5°	370.1	326.5	301.9	280.8	269.8	260.4	259.5
40°	311.3	277.4	258.7	243.6	232.7	225.7	224.0
42.5°	270.3	242.9	225.4	216.0	207.6	204.0	201.3
45°	220.7	202.2	190.1	181.6	177.8	175.0	173.5
47.5°	184.7	172.3	164.0	158.3	155.2	152.3	153.0
50°	165.0	154.9	148.8	143.4	141.0	138.9	139.2
52.5°	149.2	140.1	135.1	131.3	128.3	126.8	126.2
55°	126.6	120.9	115.9	113.1	111.5	109.5	108.9
57.5°	108.0	103.5	99.5	96.4	95.9	94.0	94.3
60°	95.6	91.9	88.6	86.9	85.6	84.0	84.5
62.5°	85.4	82.3	79.3	78.0	76.6	75.4	75.7
65°	69.9	67.0	65.1	64.4	63.8	63.3	62.7
67.5°	55.8	53.9	52.8	51.2	50.1	49.9	49.4
70°	46.9	44.4	42.5	40.4	39.8	39.7	39.8
72.5°	37.5	36.0	35.5	34.5	34.4	33.9	34.2
75°	28.2	27.6	27.3	26.5	26.5	26.5	26.5
77.5°	20.8	20.5	20.3	20.1	20.0	19.6	19.6
80°	16.2	16.1	15.7	15.7	15.5	15.7	15.5
82.5°	12.3	12.2	11.9	11.9	11.6	11.6	11.6
85°	6.3	6.1	6.5	6.1	6.3	5.9	6.3
87.5°	7.3	7.4	7.4	7.5	7.4	7.8	7.6
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)