

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: P332289-940

Luminaire Tested: **S123RDIP-S560D1025U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332289-940
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: S123RDIP-S560D1025U940-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1025 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5129.3 lumens
Efficiency: N/A
Efficacy: 115.3 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

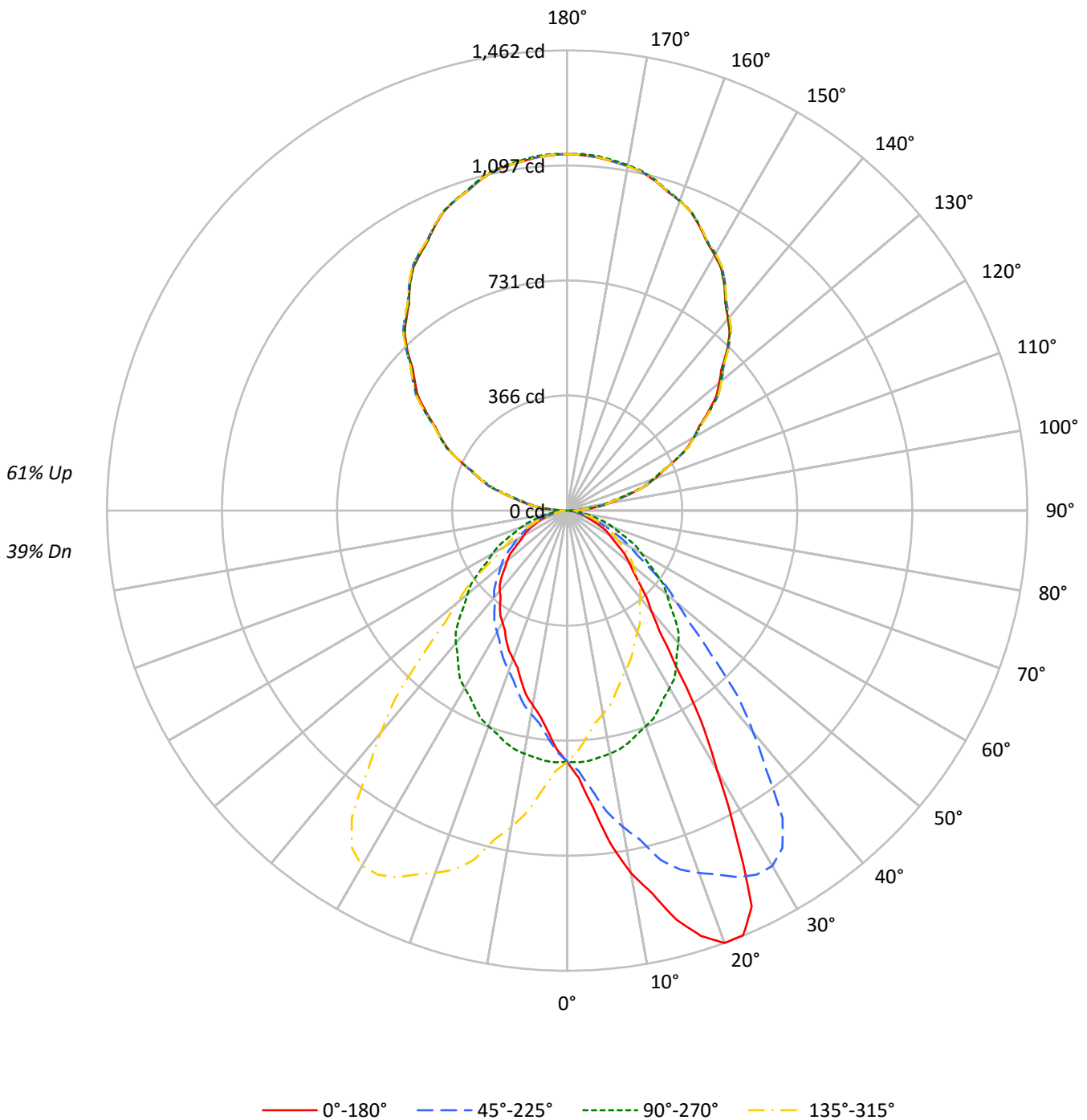
Input Watts (W): 44.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	96	92	88	85	87	83	80	78	68	66	64	54	53	51	41	40	40	34
2	87	81	75	70	79	73	69	64	60	57	54	48	46	44	37	35	34	29
3	80	71	64	59	73	65	59	54	54	49	46	43	40	37	33	31	29	25
4	73	63	56	50	67	58	51	46	48	43	39	38	35	32	30	28	26	22
5	67	56	49	43	61	52	45	40	43	38	34	35	31	28	27	25	23	19
6	62	51	43	37	56	47	40	35	39	34	30	31	28	25	25	22	20	17
7	58	46	38	33	52	42	35	31	35	30	26	29	25	22	23	20	18	15
8	53	42	34	29	49	38	32	27	32	27	23	26	23	20	21	18	16	14
9	50	38	31	26	45	35	29	24	29	25	21	24	20	18	19	17	15	12
10	46	35	28	23	42	32	26	22	27	22	19	22	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8587	8587	8587	8587
5°	10237	8625	7595	8625
10°	12783	8575	6862	8575
15°	15004	8487	6257	8487
20°	16745	8356	5743	8356
25°	16476	8219	5428	8219
30°	11844	8090	5102	8090
35°	7908	7926	4892	7926
40°	5826	7727	4675	7727
45°	4886	7377	4460	7377
50°	4312	6921	4163	6921
55°	3781	6397	3755	6397
60°	3367	5896	3442	5896
65°	2957	5359	3202	5359
70°	2319	4881	2924	4881
75°	2046	4263	2670	4263
80°	1779	3620	2628	3620
85°	1433	2902	2791	2902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	1.5
10°-20°	245.1	4.8
20°-30°	385.1	7.5
30°-40°	401.8	7.8
40°-50°	343.8	6.7
50°-60°	262.1	5.1
60°-70°	168.0	3.3
70°-80°	80.8	1.6
80°-90°	24.7	0.5
90°-100°	73.8	1.4
100°-110°	220.9	4.3
110°-120°	375.8	7.3
120°-130°	494.3	9.6
130°-140°	555.6	10.8
140°-150°	546.1	10.6
150°-160°	459.7	9.0
160°-170°	306.0	6.0
170°-180°	107.2	2.1
0°-30°	708.7	13.8
0°-40°	1110.4	21.6
0°-60°	1716.3	33.5
0°-90°	1989.9	38.8
90°-120°	670.6	13.1
90°-150°	2266.5	44.2
90°-180°	3139.0	61.2
0°-180°	5129.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	798	798	798	798	798	
5°	947	798	703	798	947	98
15°	1346	762	562	762	1346	382
25°	1387	692	457	692	1387	596
35°	602	603	372	603	602	395
45°	321	485	293	485	321	252
55°	202	341	200	341	202	182
65°	116	210	126	210	116	114
75°	49	102	64	102	49	53
85°	12	24	23	24	12	14
90°	27	1	27	1	27	13
95°	70	52	70	52	70	71
105°	212	200	212	200	212	225
115°	379	378	379	378	379	375
125°	547	554	547	554	547	489
135°	718	718	718	718	718	552
145°	871	871	871	871	871	544
155°	996	998	996	998	996	459
165°	1083	1087	1083	1087	1083	306
175°	1126	1130	1126	1130	1126	107
180°	1133	1133	1133	1133	1133	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	849.7	850.9	847.3	846.8	842.7	841.6	841.6	835.8	832.2	827.6	824.9
5°	947.4	952.9	950.2	944.1	933.8	931.4	924.9	914.6	903.0	888.7	881.9
7.5°	1069.4	1076.9	1074.0	1064.5	1053.8	1045.1	1026.8	1009.8	986.0	965.1	947.2
10°	1169.5	1161.5	1155.5	1146.2	1136.3	1120.3	1101.2	1074.9	1044.5	1020.6	993.9
12.5°	1244.3	1243.0	1235.2	1225.7	1211.7	1196.5	1173.0	1140.9	1105.6	1071.0	1040.6
15°	1346.4	1348.4	1343.3	1333.4	1313.6	1286.6	1251.1	1237.8	1187.2	1149.6	1112.1
17.5°	1417.0	1416.6	1415.9	1402.1	1382.0	1362.7	1329.8	1294.8	1249.0	1196.1	1145.5
20°	1461.8	1458.4	1459.1	1443.7	1428.7	1406.5	1374.4	1323.5	1285.9	1224.8	1172.5
22.5°	1460.7	1460.0	1462.6	1457.3	1446.4	1429.4	1404.2	1361.2	1313.2	1251.5	1192.8
25°	1387.3	1384.6	1400.7	1405.1	1422.5	1425.6	1418.1	1394.5	1349.1	1285.6	1212.8
27.5°	1161.1	1159.6	1189.4	1226.6	1274.0	1310.7	1346.2	1363.3	1349.1	1303.6	1230.7
30°	952.9	985.0	1000.1	1054.0	1114.1	1185.8	1248.7	1308.4	1323.1	1303.3	1243.6
32.5°	791.1	819.1	831.7	878.1	934.1	1018.1	1112.3	1196.9	1256.8	1271.9	1235.9
35°	601.8	602.2	630.8	651.3	703.2	789.6	881.2	994.5	1107.2	1192.7	1201.6
37.5°	480.2	481.9	499.3	519.7	558.7	604.3	684.9	779.2	909.4	1040.4	1117.3
40°	414.6	417.7	430.7	450.8	478.8	513.4	576.2	664.9	773.6	919.4	1038.7
42.5°	372.6	377.6	384.2	399.8	417.1	449.4	500.2	568.8	667.5	805.5	943.0
45°	321.0	323.8	328.9	336.1	351.8	374.3	408.5	454.6	536.5	647.6	785.2
47.5°	283.2	281.8	287.1	293.0	303.4	318.8	341.7	379.3	437.8	526.8	643.6
50°	257.5	257.2	260.9	265.4	275.3	286.6	305.3	333.7	380.1	453.9	560.8
52.5°	233.4	234.8	237.5	243.0	250.1	259.2	276.1	296.5	336.4	400.1	489.2
55°	201.5	202.5	206.3	209.4	214.5	223.7	234.3	251.4	278.7	323.1	396.5
57.5°	174.4	174.0	177.6	178.3	184.1	191.6	199.8	213.1	232.9	265.9	315.4
60°	156.4	155.4	158.5	160.9	163.9	170.0	176.9	189.9	205.6	229.9	272.2
62.5°	140.0	139.6	141.8	144.2	146.7	152.3	158.1	168.0	180.5	200.9	234.5
65°	116.1	117.2	118.2	119.2	120.6	123.9	129.5	136.3	144.8	159.2	183.4
67.5°	91.2	92.3	92.6	94.7	97.6	99.8	103.2	109.2	115.2	127.2	141.1
70°	73.7	73.4	73.7	74.8	78.6	82.3	86.8	91.2	95.0	103.5	115.1
72.5°	63.4	62.8	63.7	63.8	65.7	66.7	69.6	73.7	78.6	84.4	92.7
75°	49.2	49.2	49.2	49.2	50.6	51.3	52.3	53.3	55.0	57.7	63.8
77.5°	36.4	36.4	36.9	37.2	37.5	37.9	38.5	39.6	40.1	41.6	44.2
80°	28.7	29.1	28.7	29.1	29.1	29.7	30.1	31.1	31.4	33.2	34.2
82.5°	21.6	21.4	21.6	21.9	21.9	22.6	22.6	23.5	23.5	24.3	25.4
85°	11.6	11.0	11.6	11.2	11.9	11.2	11.6	12.3	12.3	12.7	14.0
87.5°	8.1	8.6	7.9	8.1	8.0	8.2	8.0	7.8	8.3	7.8	7.6
90°	26.7	26.3	25.9	25.5	25.1	24.5	23.7	22.9	22.1	21.4	18.8
92.5°	35.9	36.2	36.5	36.6	36.9	36.7	36.1	35.5	34.8	34.2	32.7
95°	69.5	69.5	69.5	69.5	69.5	69.0	68.2	67.4	66.7	65.9	64.3
97.5°	106.8	106.9	107.0	107.1	107.1	106.7	105.8	104.9	104.0	103.1	101.9
100°	135.3	134.9	134.5	134.1	133.8	133.2	132.6	132.1	131.4	130.8	129.8
102.5°	164.5	164.6	164.6	164.7	164.8	164.5	164.0	163.4	162.7	162.2	160.9
105°	211.9	211.4	211.1	210.6	210.3	210.1	210.1	210.1	210.1	210.1	208.3
107.5°	261.2	261.4	261.6	261.9	262.1	261.9	261.3	260.6	260.0	259.4	258.7
110°	294.6	295.1	295.4	295.8	296.2	296.0	295.2	294.4	293.6	292.8	292.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	330.2	330.3	330.4	330.5	330.6	330.1	329.1	328.2	327.3	326.3	326.3
115°	379.2	379.4	379.6	379.8	380.0	380.0	379.8	379.6	379.4	379.2	379.6
117.5°	428.8	429.4	430.0	430.5	431.1	431.4	431.4	431.4	431.5	431.5	432.0
120°	463.8	464.1	464.6	464.9	465.3	465.7	465.8	466.0	466.2	466.5	467.4
122.5°	497.2	497.8	498.3	498.9	499.4	500.0	500.5	501.0	501.5	502.0	502.6
125°	547.4	548.2	549.0	549.8	550.5	551.3	552.1	552.9	553.8	554.6	554.9
127.5°	597.4	598.3	599.2	600.2	601.1	602.1	603.2	604.3	605.4	606.5	607.0
130°	630.2	631.6	632.9	634.4	635.7	636.9	637.6	638.4	639.2	640.0	640.6
132.5°	664.4	665.5	666.6	667.6	668.7	669.7	670.7	671.5	672.5	673.4	673.9
135°	717.5	717.8	718.2	718.6	719.0	719.6	720.4	721.2	722.0	722.7	723.0
137.5°	764.3	765.0	765.7	766.5	767.2	768.0	768.9	769.7	770.5	771.3	770.9
140°	794.9	796.3	797.6	799.1	800.4	801.2	801.4	801.6	801.8	802.0	801.8
142.5°	826.2	827.2	828.3	829.4	830.5	831.1	831.3	831.5	831.7	831.9	831.5
145°	871.4	872.2	873.0	873.8	874.6	875.0	875.3	875.5	875.7	875.8	875.3
147.5°	911.7	912.8	914.0	915.3	916.4	917.0	917.0	917.0	917.0	917.0	916.4
150°	937.3	938.4	939.7	940.8	942.0	942.6	942.6	942.6	942.6	942.6	942.3
152.5°	962.2	963.2	964.3	965.3	966.3	966.7	966.3	966.1	965.7	965.5	965.2
155°	996.0	997.4	998.8	1000.2	1001.6	1001.8	1001.1	1000.3	999.5	998.7	998.5
157.5°	1026.8	1028.0	1029.0	1030.2	1031.3	1031.4	1030.6	1029.7	1028.9	1028.1	1028.0
160°	1046.8	1047.6	1048.4	1049.2	1049.9	1049.8	1048.8	1047.8	1046.9	1045.9	1045.9
162.5°	1061.8	1063.0	1064.3	1065.5	1066.8	1066.9	1066.0	1065.0	1064.0	1063.0	1062.8
165°	1083.3	1084.7	1086.0	1087.4	1088.8	1088.9	1087.7	1086.5	1085.3	1084.1	1084.1
167.5°	1101.6	1102.9	1104.0	1105.3	1106.5	1106.5	1105.3	1104.0	1102.9	1101.6	1101.4
170°	1110.9	1112.2	1113.7	1115.0	1116.4	1116.4	1115.0	1113.7	1112.2	1110.9	1110.9
172.5°	1117.9	1119.4	1120.8	1122.1	1123.6	1123.6	1122.4	1121.1	1119.9	1118.7	1118.7
175°	1126.0	1127.4	1128.7	1130.2	1131.5	1131.7	1130.4	1129.3	1128.1	1126.9	1126.9
177.5°	1130.2	1131.4	1132.5	1133.6	1134.7	1134.8	1133.8	1132.9	1131.9	1131.0	1131.0
180°	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	823.8	823.0	819.1	814.8	809.0	805.2	802.2	800.6	795.7	789.6	785.5
5°	874.7	864.4	853.5	840.2	827.9	815.3	807.4	798.2	786.9	774.3	765.4
7.5°	929.2	909.1	887.4	865.1	843.0	823.2	805.7	790.8	772.8	754.7	742.0
10°	971.0	941.6	911.2	880.1	851.8	825.2	804.7	784.5	763.0	742.2	726.5
12.5°	1009.0	970.4	935.3	897.1	860.9	829.0	799.5	775.8	749.9	727.7	709.8
15°	1057.0	1017.4	975.1	917.0	868.9	828.6	792.7	761.6	730.2	702.9	685.5
17.5°	1102.0	1042.4	985.5	937.0	874.5	824.1	780.3	743.2	708.7	679.8	658.3
20°	1120.6	1062.9	1001.0	939.2	877.8	821.4	770.5	729.5	693.7	660.8	641.1
22.5°	1131.8	1066.4	1001.3	934.9	869.6	811.0	760.7	715.6	676.7	645.6	621.2
25°	1144.9	1066.9	995.2	929.7	863.1	799.5	739.8	692.0	650.0	616.8	590.8
27.5°	1153.4	1061.8	977.0	904.2	836.6	773.4	718.6	667.9	625.3	590.2	562.4
30°	1155.1	1057.7	963.1	884.2	815.6	757.5	699.5	650.9	605.9	568.6	542.7
32.5°	1157.3	1047.7	944.3	860.5	790.2	732.7	680.1	633.7	587.5	550.9	524.4
35°	1148.3	1042.1	915.7	819.4	749.0	693.3	645.9	603.2	557.8	522.2	495.3
37.5°	1109.5	1019.8	886.0	773.0	699.5	647.9	609.2	572.0	530.4	492.0	466.6
40°	1070.4	998.0	863.1	744.9	668.1	615.1	580.2	549.9	509.6	473.7	446.4
42.5°	1012.2	968.2	841.2	715.4	632.5	581.5	552.1	523.6	488.3	451.8	426.1
45°	905.4	911.2	796.5	668.4	583.4	532.1	504.4	484.6	453.3	423.2	396.9
47.5°	771.5	825.8	744.0	618.3	531.5	483.4	459.2	441.9	420.8	391.3	367.3
50°	684.1	761.6	701.9	584.7	499.0	451.2	427.3	413.3	394.8	371.6	348.7
52.5°	603.5	686.8	651.0	547.2	463.8	420.0	396.6	385.1	370.5	348.7	328.0
55°	492.1	576.5	568.3	490.8	410.9	371.6	353.8	340.9	330.9	314.6	298.2
57.5°	398.1	478.0	482.3	427.9	364.3	325.5	310.2	300.4	293.9	281.6	266.4
60°	338.9	412.2	426.6	385.6	330.9	296.8	281.8	273.9	268.8	258.9	247.3
62.5°	289.6	352.1	368.4	338.9	299.0	267.0	255.3	247.7	244.2	235.7	225.4
65°	221.7	273.6	289.3	272.9	252.1	226.4	216.9	210.4	207.3	202.5	195.0
67.5°	166.7	204.6	221.8	210.2	202.7	186.5	180.4	176.9	174.2	170.9	164.6
70°	133.8	161.9	179.7	176.6	170.4	161.9	157.5	155.1	152.3	149.6	144.1
72.5°	107.6	126.9	143.6	145.2	140.1	138.4	134.5	133.5	131.8	128.6	125.6
75°	71.4	84.7	96.3	100.8	102.8	104.5	102.8	102.5	102.1	99.4	97.6
77.5°	46.8	53.9	61.3	68.8	72.1	74.4	74.9	76.2	75.3	73.8	73.0
80°	35.8	37.5	42.7	49.2	54.3	56.4	57.7	58.4	58.1	57.7	56.4
82.5°	26.0	27.5	29.9	34.4	38.7	42.2	43.0	42.8	43.6	43.8	42.7
85°	14.0	14.4	15.1	15.7	18.1	21.8	22.9	23.5	24.3	24.3	22.2
87.5°	7.6	6.9	6.9	6.4	6.9	6.7	7.9	8.9	9.6	8.9	9.3
90°	16.2	13.6	11.1	8.8	6.9	4.8	2.9	0.9	2.9	4.8	6.9
92.5°	31.2	29.8	28.4	26.9	25.6	24.3	22.9	21.6	22.9	24.3	25.6
95°	62.7	61.1	59.6	58.1	56.7	55.3	53.9	52.5	53.9	55.3	56.7
97.5°	100.8	99.6	98.4	97.4	96.4	95.3	94.3	93.3	94.3	95.3	96.4
100°	128.9	127.9	126.9	125.8	124.6	123.4	122.3	121.1	122.3	123.4	124.6
102.5°	159.5	158.3	156.9	156.0	155.2	154.5	153.8	153.1	153.8	154.5	155.2
105°	206.5	204.7	203.0	201.9	201.4	201.1	200.6	200.3	200.6	201.1	201.4
107.5°	258.0	257.3	256.5	256.1	255.8	255.6	255.4	255.1	255.4	255.6	255.8
110°	292.0	291.7	291.2	290.9	290.4	290.1	289.7	289.3	289.7	290.1	290.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	326.2	326.1	326.0	325.8	325.6	325.4	325.1	324.9	325.1	325.4	325.6
115°	380.0	380.4	380.8	380.7	380.0	379.5	378.9	378.3	378.9	379.5	380.0
117.5°	432.6	433.1	433.5	433.6	433.3	432.8	432.5	432.0	432.5	432.8	433.3
120°	468.4	469.4	470.4	470.3	469.1	467.9	466.7	465.6	466.7	467.9	469.1
122.5°	503.0	503.5	504.1	503.9	503.0	502.1	501.3	500.4	501.3	502.1	503.0
125°	555.4	555.7	556.2	556.0	555.4	554.8	554.3	553.7	554.3	554.8	555.4
127.5°	607.4	607.8	608.2	607.9	606.5	605.3	604.0	602.8	604.0	605.3	606.5
130°	641.1	641.8	642.4	641.9	640.2	638.7	637.1	635.5	637.1	638.7	640.2
132.5°	674.3	674.8	675.2	674.7	673.1	671.5	669.9	668.3	669.9	671.5	673.1
135°	723.2	723.4	723.5	723.1	721.8	720.7	719.5	718.4	719.5	720.7	721.8
137.5°	770.3	769.8	769.3	768.6	767.6	766.6	765.6	764.6	765.6	766.6	767.6
140°	801.6	801.4	801.2	800.6	799.6	798.6	797.6	796.7	797.6	798.6	799.6
142.5°	831.2	830.8	830.5	829.8	828.8	827.9	826.8	825.8	826.8	827.9	828.8
145°	874.7	874.1	873.5	873.0	872.6	872.2	871.8	871.4	871.8	872.2	872.6
147.5°	915.9	915.3	914.8	914.2	913.5	912.8	912.0	911.3	912.0	912.8	913.5
150°	941.8	941.5	941.0	940.7	940.2	939.9	939.5	939.1	939.5	939.9	940.2
152.5°	964.9	964.7	964.5	964.0	963.5	963.0	962.4	961.9	962.4	963.0	963.5
155°	998.3	998.1	997.9	997.8	997.8	997.8	997.8	997.8	997.8	997.8	997.8
157.5°	1027.8	1027.6	1027.4	1027.5	1027.7	1028.0	1028.2	1028.4	1028.2	1028.0	1027.7
160°	1045.9	1045.9	1045.9	1046.1	1046.5	1046.9	1047.2	1047.7	1047.2	1046.9	1046.5
162.5°	1062.7	1062.5	1062.4	1062.6	1063.1	1063.6	1064.2	1064.8	1064.2	1063.6	1063.1
165°	1084.1	1084.1	1084.1	1084.5	1085.0	1085.7	1086.2	1086.8	1086.2	1085.7	1085.0
167.5°	1101.3	1101.2	1101.0	1101.3	1102.1	1102.9	1103.7	1104.5	1103.7	1102.9	1102.1
170°	1110.9	1110.9	1110.9	1111.3	1112.1	1112.9	1113.7	1114.5	1113.7	1112.9	1112.1
172.5°	1118.7	1118.7	1118.7	1119.1	1119.9	1120.7	1121.5	1122.2	1121.5	1120.7	1119.9
175°	1126.9	1126.9	1126.9	1127.3	1128.1	1128.8	1129.6	1130.4	1129.6	1128.8	1128.1
177.5°	1131.0	1131.0	1131.0	1131.3	1131.9	1132.6	1133.2	1133.8	1133.2	1132.6	1131.9
180°	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	784.2	780.6	778.2	772.7	769.2	765.4	761.5	763.9	763.7	763.4	763.4
5°	757.9	750.0	742.9	733.6	727.8	720.7	715.2	714.5	715.9	711.1	708.4
7.5°	731.8	721.0	710.9	700.7	689.9	681.3	675.9	673.4	669.9	667.0	663.9
10°	713.5	700.9	690.9	678.3	666.7	656.5	650.0	645.5	643.1	640.7	636.3
12.5°	694.6	682.2	669.6	655.3	644.3	632.4	627.6	622.6	618.0	615.3	609.2
15°	667.0	650.9	637.7	622.6	610.4	598.7	591.9	582.0	580.6	577.2	571.1
17.5°	639.4	622.0	603.6	592.5	578.5	566.5	556.1	552.8	543.0	539.3	534.0
20°	617.5	601.5	587.5	572.7	552.6	541.4	533.2	528.7	520.8	516.0	512.6
22.5°	598.7	582.3	566.1	549.0	532.4	519.8	513.7	506.8	502.6	495.9	492.1
25°	571.8	554.0	534.5	516.0	504.1	494.5	485.0	478.8	472.7	469.6	462.8
27.5°	540.5	521.9	503.7	489.7	475.0	465.6	456.9	451.5	444.1	438.9	435.2
30°	523.3	501.4	485.7	473.1	454.2	445.4	438.9	432.0	426.6	421.2	417.3
32.5°	503.3	483.3	468.4	452.8	438.4	428.7	420.3	414.3	409.7	404.5	400.7
35°	472.0	455.3	439.9	424.2	413.6	403.7	393.8	388.7	384.2	379.4	376.0
37.5°	443.7	428.1	413.5	398.6	385.5	377.4	369.4	365.5	359.5	356.3	352.8
40°	426.2	410.9	395.2	380.8	367.1	361.1	353.8	348.0	342.6	340.2	336.4
42.5°	407.2	391.7	378.5	363.0	351.9	343.5	336.9	330.6	326.5	323.0	320.8
45°	378.8	365.1	352.1	336.8	326.2	319.0	311.5	305.7	301.9	299.5	295.8
47.5°	351.2	337.6	324.4	311.0	300.8	292.6	285.1	281.0	276.1	273.1	270.5
50°	331.3	319.0	305.0	292.7	282.5	274.3	268.1	263.0	258.5	254.8	253.1
52.5°	313.0	299.9	287.8	276.3	265.6	256.2	250.7	245.2	241.9	237.6	235.6
55°	282.8	270.2	259.9	248.6	238.1	230.2	223.4	218.6	215.2	210.4	207.7
57.5°	254.4	243.1	230.9	221.1	210.2	203.6	197.9	191.4	187.3	183.5	180.8
60°	235.3	222.3	211.8	202.5	193.0	184.4	179.3	174.2	169.8	165.9	163.6
62.5°	215.3	204.0	194.0	184.0	175.2	167.7	161.8	157.5	153.6	151.2	148.8
65°	184.8	175.9	165.7	157.5	149.3	143.8	139.0	135.3	132.5	130.8	128.8
67.5°	156.7	148.0	139.1	131.0	125.6	121.4	118.2	115.0	113.7	111.5	110.1
70°	138.3	129.5	121.6	115.5	109.9	106.9	104.9	102.5	101.1	98.4	97.0
72.5°	118.4	112.0	106.3	101.2	96.8	94.1	91.5	88.5	86.3	83.4	81.9
75°	93.3	87.5	83.0	79.5	76.9	73.1	69.4	66.3	65.3	64.2	63.8
77.5°	69.0	65.4	62.2	59.3	55.9	53.1	52.3	51.6	51.5	50.9	50.9
80°	54.3	50.9	48.5	45.1	43.1	43.1	43.1	42.4	42.7	42.7	42.7
82.5°	40.4	37.2	35.9	34.7	34.3	34.6	34.6	34.7	34.5	35.0	34.8
85°	20.9	21.1	21.8	21.5	21.8	21.8	22.6	22.2	22.6	21.8	22.6
87.5°	9.5	10.7	11.5	12.2	13.0	13.3	13.7	13.9	14.3	14.4	14.6
90°	8.8	11.1	13.6	16.2	18.8	21.4	22.1	22.9	23.7	24.5	25.1
92.5°	26.9	28.4	29.8	31.2	32.7	34.2	34.8	35.5	36.1	36.7	36.9
95°	58.1	59.6	61.1	62.7	64.3	65.9	66.7	67.4	68.2	69.0	69.5
97.5°	97.4	98.4	99.6	100.8	101.9	103.1	104.0	104.9	105.8	106.7	107.1
100°	125.8	126.9	127.9	128.9	129.8	130.8	131.4	132.1	132.6	133.2	133.8
102.5°	156.0	156.9	158.3	159.5	160.9	162.2	162.7	163.4	164.0	164.5	164.8
105°	201.9	203.0	204.7	206.5	208.3	210.1	210.1	210.1	210.1	210.1	210.3
107.5°	256.1	256.5	257.3	258.0	258.7	259.4	260.0	260.6	261.3	261.9	262.1
110°	290.9	291.2	291.7	292.0	292.5	292.8	293.6	294.4	295.2	296.0	296.2



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	325.8	326.0	326.1	326.2	326.3	326.3	327.3	328.2	329.1	330.1	330.6
115°	380.7	380.8	380.4	380.0	379.6	379.2	379.4	379.6	379.8	380.0	380.0
117.5°	433.6	433.5	433.1	432.6	432.0	431.5	431.5	431.4	431.4	431.4	431.1
120°	470.3	470.4	469.4	468.4	467.4	466.5	466.2	466.0	465.8	465.7	465.3
122.5°	503.9	504.1	503.5	503.0	502.6	502.0	501.5	501.0	500.5	500.0	499.4
125°	556.0	556.2	555.7	555.4	554.9	554.6	553.8	552.9	552.1	551.3	550.5
127.5°	607.9	608.2	607.8	607.4	607.0	606.5	605.4	604.3	603.2	602.1	601.1
130°	641.9	642.4	641.8	641.1	640.6	640.0	639.2	638.4	637.6	636.9	635.7
132.5°	674.7	675.2	674.8	674.3	673.9	673.4	672.5	671.5	670.7	669.7	668.7
135°	723.1	723.5	723.4	723.2	723.0	722.7	722.0	721.2	720.4	719.6	719.0
137.5°	768.6	769.3	769.8	770.3	770.9	771.3	770.5	769.7	768.9	768.0	767.2
140°	800.6	801.2	801.4	801.6	801.8	802.0	801.8	801.6	801.4	801.2	800.4
142.5°	829.8	830.5	830.8	831.2	831.5	831.9	831.7	831.5	831.3	831.1	830.5
145°	873.0	873.5	874.1	874.7	875.3	875.8	875.7	875.5	875.3	875.0	874.6
147.5°	914.2	914.8	915.3	915.9	916.4	917.0	917.0	917.0	917.0	917.0	916.4
150°	940.7	941.0	941.5	941.8	942.3	942.6	942.6	942.6	942.6	942.6	942.0
152.5°	964.0	964.5	964.7	964.9	965.2	965.5	965.7	966.1	966.3	966.7	966.3
155°	997.8	997.9	998.1	998.3	998.5	998.7	999.5	1000.3	1001.1	1001.8	1001.6
157.5°	1027.5	1027.4	1027.6	1027.8	1028.0	1028.1	1028.9	1029.7	1030.6	1031.4	1031.3
160°	1046.1	1045.9	1045.9	1045.9	1045.9	1045.9	1046.9	1047.8	1048.8	1049.8	1049.9
162.5°	1062.6	1062.4	1062.5	1062.7	1062.8	1063.0	1064.0	1065.0	1066.0	1066.9	1066.8
165°	1084.5	1084.1	1084.1	1084.1	1084.1	1084.1	1085.3	1086.5	1087.7	1088.9	1088.8
167.5°	1101.3	1101.0	1101.2	1101.3	1101.4	1101.6	1102.9	1104.0	1105.3	1106.5	1106.5
170°	1111.3	1110.9	1110.9	1110.9	1110.9	1110.9	1112.2	1113.7	1115.0	1116.4	1116.4
172.5°	1119.1	1118.7	1118.7	1118.7	1118.7	1118.7	1119.9	1121.1	1122.4	1123.6	1123.6
175°	1127.3	1126.9	1126.9	1126.9	1126.9	1126.9	1128.1	1129.3	1130.4	1131.7	1131.5
177.5°	1131.3	1131.0	1131.0	1131.0	1131.0	1131.0	1131.9	1132.9	1133.8	1134.8	1134.7
180°	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	760.1	759.8	760.1	759.0	760.1	759.8	760.1	763.4	763.4	763.7	763.9
5°	707.3	706.9	706.0	702.9	706.0	706.9	707.3	708.4	711.1	715.9	714.5
7.5°	661.2	660.8	657.7	657.8	657.7	660.8	661.2	663.9	667.0	669.9	673.4
10°	633.9	634.3	630.2	627.8	630.2	634.3	633.9	636.3	640.7	643.1	645.5
12.5°	607.4	605.8	602.5	599.9	602.5	605.8	607.4	609.2	615.3	618.0	622.6
15°	572.4	569.0	560.8	561.5	560.8	569.0	572.4	571.1	577.2	580.6	582.0
17.5°	531.2	528.7	528.6	523.8	528.6	528.7	531.2	534.0	539.3	543.0	552.8
20°	507.2	505.5	506.1	501.4	506.1	505.5	507.2	512.6	516.0	520.8	528.7
22.5°	488.3	486.6	483.8	482.2	483.8	486.6	488.3	492.1	495.9	502.6	506.8
25°	460.7	458.0	455.3	457.0	455.3	458.0	460.7	462.8	469.6	472.7	478.8
27.5°	433.1	431.1	428.4	428.0	428.4	431.1	433.1	435.2	438.9	444.1	451.5
30°	415.6	413.6	412.2	410.5	412.2	413.6	415.6	417.3	421.2	426.6	432.0
32.5°	397.9	397.5	395.0	394.7	395.0	397.5	397.9	400.7	404.5	409.7	414.3
35°	374.7	372.6	371.9	372.3	371.9	372.6	374.7	376.0	379.4	384.2	388.7
37.5°	352.6	349.9	348.7	347.4	348.7	349.9	352.6	352.8	356.3	359.5	365.5
40°	336.8	334.0	333.3	332.7	333.3	334.0	336.8	336.4	340.2	342.6	348.0
42.5°	319.0	317.9	317.5	316.3	317.5	317.9	319.0	320.8	323.0	326.5	330.6
45°	294.7	294.4	292.4	293.0	292.4	294.4	294.7	295.8	299.5	301.9	305.7
47.5°	269.2	267.7	266.3	267.2	266.3	267.7	269.2	270.5	273.1	276.1	281.0
50°	251.7	251.0	248.0	248.6	248.0	251.0	251.7	253.1	254.8	258.5	263.0
52.5°	234.3	231.7	230.5	230.1	230.5	231.7	234.3	235.6	237.6	241.9	245.2
55°	205.3	202.2	200.8	200.1	200.8	202.2	205.3	207.7	210.4	215.2	218.6
57.5°	176.8	176.0	175.0	175.7	175.0	176.0	176.8	180.8	183.5	187.3	191.4
60°	160.2	160.2	160.2	159.9	160.2	160.2	160.2	163.6	165.9	169.8	174.2
62.5°	147.3	146.5	146.2	146.7	146.2	146.5	147.3	148.8	151.2	153.6	157.5
65°	127.7	127.4	126.0	125.7	126.0	127.4	127.7	128.8	130.8	132.5	135.3
67.5°	109.2	108.0	107.6	107.1	107.6	108.0	109.2	110.1	111.5	113.7	115.0
70°	95.3	94.6	92.6	92.9	92.6	94.6	95.3	97.0	98.4	101.1	102.5
72.5°	80.3	79.5	79.2	78.6	79.2	79.5	80.3	81.9	83.4	86.3	88.5
75°	63.5	63.2	62.9	64.2	62.9	63.2	63.5	63.8	64.2	65.3	66.3
77.5°	50.9	50.9	51.1	50.6	51.1	50.9	50.9	50.9	50.9	51.5	51.6
80°	42.7	42.7	42.4	42.4	42.4	42.7	42.7	42.7	42.7	42.7	42.4
82.5°	34.2	34.5	34.7	34.2	34.7	34.5	34.2	34.8	35.0	34.5	34.7
85°	22.6	22.2	22.9	22.6	22.9	22.2	22.6	22.6	21.8	22.6	22.2
87.5°	15.2	14.7	14.8	15.2	14.8	14.7	15.2	14.6	14.4	14.3	13.9
90°	25.5	25.9	26.3	26.7	26.3	25.9	25.5	25.1	24.5	23.7	22.9
92.5°	36.6	36.5	36.2	35.9	36.2	36.5	36.6	36.9	36.7	36.1	35.5
95°	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.0	68.2	67.4
97.5°	107.1	107.0	106.9	106.8	106.9	107.0	107.1	107.1	106.7	105.8	104.9
100°	134.1	134.5	134.9	135.3	134.9	134.5	134.1	133.8	133.2	132.6	132.1
102.5°	164.7	164.6	164.6	164.5	164.6	164.6	164.7	164.8	164.5	164.0	163.4
105°	210.6	211.1	211.4	211.9	211.4	211.1	210.6	210.3	210.1	210.1	210.1
107.5°	261.9	261.6	261.4	261.2	261.4	261.6	261.9	262.1	261.9	261.3	260.6
110°	295.8	295.4	295.1	294.6	295.1	295.4	295.8	296.2	296.0	295.2	294.4



TEST NUMBER: P332289-940

CATALOG NUMBER: S123RDIP-S560D1025U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	330.5	330.4	330.3	330.2	330.3	330.4	330.5	330.6	330.1	329.1	328.2
115°	379.8	379.6	379.4	379.2	379.4	379.6	379.8	380.0	380.0	379.8	379.6
117.5°	430.5	430.0	429.4	428.8	429.4	430.0	430.5	431.1	431.4	431.4	431.4
120°	464.9	464.6	464.1	463.8	464.1	464.6	464.9	465.3	465.7	465.8	466.0
122.5°	498.9	498.3	497.8	497.2	497.8	498.3	498.9	499.4	500.0	500.5	501.0
125°	549.8	549.0	548.2	547.4	548.2	549.0	549.8	550.5	551.3	552.1	552.9
127.5°	600.2	599.2	598.3	597.4	598.3	599.2	600.2	601.1	602.1	603.2	604.3
130°	634.4	632.9	631.6	630.2	631.6	632.9	634.4	635.7	636.9	637.6	638.4
132.5°	667.6	666.6	665.5	664.4	665.5	666.6	667.6	668.7	669.7	670.7	671.5
135°	718.6	718.2	717.8	717.5	717.8	718.2	718.6	719.0	719.6	720.4	721.2
137.5°	766.5	765.7	765.0	764.3	765.0	765.7	766.5	767.2	768.0	768.9	769.7
140°	799.1	797.6	796.3	794.9	796.3	797.6	799.1	800.4	801.2	801.4	801.6
142.5°	829.4	828.3	827.2	826.2	827.2	828.3	829.4	830.5	831.1	831.3	831.5
145°	873.8	873.0	872.2	871.4	872.2	873.0	873.8	874.6	875.0	875.3	875.5
147.5°	915.3	914.0	912.8	911.7	912.8	914.0	915.3	916.4	917.0	917.0	917.0
150°	940.8	939.7	938.4	937.3	938.4	939.7	940.8	942.0	942.6	942.6	942.6
152.5°	965.3	964.3	963.2	962.2	963.2	964.3	965.3	966.3	966.7	966.3	966.1
155°	1000.2	998.8	997.4	996.0	997.4	998.8	1000.2	1001.6	1001.8	1001.1	1000.3
157.5°	1030.2	1029.0	1028.0	1026.8	1028.0	1029.0	1030.2	1031.3	1031.4	1030.6	1029.7
160°	1049.2	1048.4	1047.6	1046.8	1047.6	1048.4	1049.2	1049.9	1049.8	1048.8	1047.8
162.5°	1065.5	1064.3	1063.0	1061.8	1063.0	1064.3	1065.5	1066.8	1066.9	1066.0	1065.0
165°	1087.4	1086.0	1084.7	1083.3	1084.7	1086.0	1087.4	1088.8	1088.9	1087.7	1086.5
167.5°	1105.3	1104.0	1102.9	1101.6	1102.9	1104.0	1105.3	1106.5	1106.5	1105.3	1104.0
170°	1115.0	1113.7	1112.2	1110.9	1112.2	1113.7	1115.0	1116.4	1116.4	1115.0	1113.7
172.5°	1122.1	1120.8	1119.4	1117.9	1119.4	1120.8	1122.1	1123.6	1123.6	1122.4	1121.1
175°	1130.2	1128.7	1127.4	1126.0	1127.4	1128.7	1130.2	1131.5	1131.7	1130.4	1129.3
177.5°	1133.6	1132.5	1131.4	1130.2	1131.4	1132.5	1133.6	1134.7	1134.8	1133.8	1132.9
180°	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	761.5	765.4	769.2	772.7	778.2	780.6	784.2	785.5	789.6	795.7	800.6
5°	715.2	720.7	727.8	733.6	742.9	750.0	757.9	765.4	774.3	786.9	798.2
7.5°	675.9	681.3	689.9	700.7	710.9	721.0	731.8	742.0	754.7	772.8	790.8
10°	650.0	656.5	666.7	678.3	690.9	700.9	713.5	726.5	742.2	763.0	784.5
12.5°	627.6	632.4	644.3	655.3	669.6	682.2	694.6	709.8	727.7	749.9	775.8
15°	591.9	598.7	610.4	622.6	637.7	650.9	667.0	685.5	702.9	730.2	761.6
17.5°	556.1	566.5	578.5	592.5	603.6	622.0	639.4	658.3	679.8	708.7	743.2
20°	533.2	541.4	552.6	572.7	587.5	601.5	617.5	641.1	660.8	693.7	729.5
22.5°	513.7	519.8	532.4	549.0	566.1	582.3	598.7	621.2	645.6	676.7	715.6
25°	485.0	494.5	504.1	516.0	534.5	554.0	571.8	590.8	616.8	650.0	692.0
27.5°	456.9	465.6	475.0	489.7	503.7	521.9	540.5	562.4	590.2	625.3	667.9
30°	438.9	445.4	454.2	473.1	485.7	501.4	523.3	542.7	568.6	605.9	650.9
32.5°	420.3	428.7	438.4	452.8	468.4	483.3	503.3	524.4	550.9	587.5	633.7
35°	393.8	403.7	413.6	424.2	439.9	455.3	472.0	495.3	522.2	557.8	603.2
37.5°	369.4	377.4	385.5	398.6	413.5	428.1	443.7	466.6	492.0	530.4	572.0
40°	353.8	361.1	367.1	380.8	395.2	410.9	426.2	446.4	473.7	509.6	549.9
42.5°	336.9	343.5	351.9	363.0	378.5	391.7	407.2	426.1	451.8	488.3	523.6
45°	311.5	319.0	326.2	336.8	352.1	365.1	378.8	396.9	423.2	453.3	484.6
47.5°	285.1	292.6	300.8	311.0	324.4	337.6	351.2	367.3	391.3	420.8	441.9
50°	268.1	274.3	282.5	292.7	305.0	319.0	331.3	348.7	371.6	394.8	413.3
52.5°	250.7	256.2	265.6	276.3	287.8	299.9	313.0	328.0	348.7	370.5	385.1
55°	223.4	230.2	238.1	248.6	259.9	270.2	282.8	298.2	314.6	330.9	340.9
57.5°	197.9	203.6	210.2	221.1	230.9	243.1	254.4	266.4	281.6	293.9	300.4
60°	179.3	184.4	193.0	202.5	211.8	222.3	235.3	247.3	258.9	268.8	273.9
62.5°	161.8	167.7	175.2	184.0	194.0	204.0	215.3	225.4	235.7	244.2	247.7
65°	139.0	143.8	149.3	157.5	165.7	175.9	184.8	195.0	202.5	207.3	210.4
67.5°	118.2	121.4	125.6	131.0	139.1	148.0	156.7	164.6	170.9	174.2	176.9
70°	104.9	106.9	109.9	115.5	121.6	129.5	138.3	144.1	149.6	152.3	155.1
72.5°	91.5	94.1	96.8	101.2	106.3	112.0	118.4	125.6	128.6	131.8	133.5
75°	69.4	73.1	76.9	79.5	83.0	87.5	93.3	97.6	99.4	102.1	102.5
77.5°	52.3	53.1	55.9	59.3	62.2	65.4	69.0	73.0	73.8	75.3	76.2
80°	43.1	43.1	43.1	45.1	48.5	50.9	54.3	56.4	57.7	58.1	58.4
82.5°	34.6	34.6	34.3	34.7	35.9	37.2	40.4	42.7	43.8	43.6	42.8
85°	22.6	21.8	21.8	21.5	21.8	21.1	20.9	22.2	24.3	24.3	23.5
87.5°	13.7	13.3	13.0	12.2	11.5	10.7	9.5	9.3	8.9	9.6	8.9
90°	22.1	21.4	18.8	16.2	13.6	11.1	8.8	6.9	4.8	2.9	0.9
92.5°	34.8	34.2	32.7	31.2	29.8	28.4	26.9	25.6	24.3	22.9	21.6
95°	66.7	65.9	64.3	62.7	61.1	59.6	58.1	56.7	55.3	53.9	52.5
97.5°	104.0	103.1	101.9	100.8	99.6	98.4	97.4	96.4	95.3	94.3	93.3
100°	131.4	130.8	129.8	128.9	127.9	126.9	125.8	124.6	123.4	122.3	121.1
102.5°	162.7	162.2	160.9	159.5	158.3	156.9	156.0	155.2	154.5	153.8	153.1
105°	210.1	210.1	208.3	206.5	204.7	203.0	201.9	201.4	201.1	200.6	200.3
107.5°	260.0	259.4	258.7	258.0	257.3	256.5	256.1	255.8	255.6	255.4	255.1
110°	293.6	292.8	292.5	292.0	291.7	291.2	290.9	290.4	290.1	289.7	289.3



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	327.3	326.3	326.3	326.2	326.1	326.0	325.8	325.6	325.4	325.1	324.9
115°	379.4	379.2	379.6	380.0	380.4	380.8	380.7	380.0	379.5	378.9	378.3
117.5°	431.5	431.5	432.0	432.6	433.1	433.5	433.6	433.3	432.8	432.5	432.0
120°	466.2	466.5	467.4	468.4	469.4	470.4	470.3	469.1	467.9	466.7	465.6
122.5°	501.5	502.0	502.6	503.0	503.5	504.1	503.9	503.0	502.1	501.3	500.4
125°	553.8	554.6	554.9	555.4	555.7	556.2	556.0	555.4	554.8	554.3	553.7
127.5°	605.4	606.5	607.0	607.4	607.8	608.2	607.9	606.5	605.3	604.0	602.8
130°	639.2	640.0	640.6	641.1	641.8	642.4	641.9	640.2	638.7	637.1	635.5
132.5°	672.5	673.4	673.9	674.3	674.8	675.2	674.7	673.1	671.5	669.9	668.3
135°	722.0	722.7	723.0	723.2	723.4	723.5	723.1	721.8	720.7	719.5	718.4
137.5°	770.5	771.3	770.9	770.3	769.8	769.3	768.6	767.6	766.6	765.6	764.6
140°	801.8	802.0	801.8	801.6	801.4	801.2	800.6	799.6	798.6	797.6	796.7
142.5°	831.7	831.9	831.5	831.2	830.8	830.5	829.8	828.8	827.9	826.8	825.8
145°	875.7	875.8	875.3	874.7	874.1	873.5	873.0	872.6	872.2	871.8	871.4
147.5°	917.0	917.0	916.4	915.9	915.3	914.8	914.2	913.5	912.8	912.0	911.3
150°	942.6	942.6	942.3	941.8	941.5	941.0	940.7	940.2	939.9	939.5	939.1
152.5°	965.7	965.5	965.2	964.9	964.7	964.5	964.0	963.5	963.0	962.4	961.9
155°	999.5	998.7	998.5	998.3	998.1	997.9	997.8	997.8	997.8	997.8	997.8
157.5°	1028.9	1028.1	1028.0	1027.8	1027.6	1027.4	1027.5	1027.7	1028.0	1028.2	1028.4
160°	1046.9	1045.9	1045.9	1045.9	1045.9	1045.9	1046.1	1046.5	1046.9	1047.2	1047.7
162.5°	1064.0	1063.0	1062.8	1062.7	1062.5	1062.4	1062.6	1063.1	1063.6	1064.2	1064.8
165°	1085.3	1084.1	1084.1	1084.1	1084.1	1084.1	1084.5	1085.0	1085.7	1086.2	1086.8
167.5°	1102.9	1101.6	1101.4	1101.3	1101.2	1101.0	1101.3	1102.1	1102.9	1103.7	1104.5
170°	1112.2	1110.9	1110.9	1110.9	1110.9	1110.9	1111.3	1112.1	1112.9	1113.7	1114.5
172.5°	1119.9	1118.7	1118.7	1118.7	1118.7	1118.7	1119.1	1119.9	1120.7	1121.5	1122.2
175°	1128.1	1126.9	1126.9	1126.9	1126.9	1126.9	1127.3	1128.1	1128.8	1129.6	1130.4
177.5°	1131.9	1131.0	1131.0	1131.0	1131.0	1131.0	1131.3	1131.9	1132.6	1133.2	1133.8
180°	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	802.2	805.2	809.0	814.8	819.1	823.0	823.8	824.9	827.6	832.2	835.8
5°	807.4	815.3	827.9	840.2	853.5	864.4	874.7	881.9	888.7	903.0	914.6
7.5°	805.7	823.2	843.0	865.1	887.4	909.1	929.2	947.2	965.1	986.0	1009.8
10°	804.7	825.2	851.8	880.1	911.2	941.6	971.0	993.9	1020.6	1044.5	1074.9
12.5°	799.5	829.0	860.9	897.1	935.3	970.4	1009.0	1040.6	1071.0	1105.6	1140.9
15°	792.7	828.6	868.9	917.0	975.1	1017.4	1057.0	1112.1	1149.6	1187.2	1237.8
17.5°	780.3	824.1	874.5	937.0	985.5	1042.4	1102.0	1145.5	1196.1	1249.0	1294.8
20°	770.5	821.4	877.8	939.2	1001.0	1062.9	1120.6	1172.5	1224.8	1285.9	1323.5
22.5°	760.7	811.0	869.6	934.9	1001.3	1066.4	1131.8	1192.8	1251.5	1313.2	1361.2
25°	739.8	799.5	863.1	929.7	995.2	1066.9	1144.9	1212.8	1285.6	1349.1	1394.5
27.5°	718.6	773.4	836.6	904.2	977.0	1061.8	1153.4	1230.7	1303.6	1349.1	1363.3
30°	699.5	757.5	815.6	884.2	963.1	1057.7	1155.1	1243.6	1303.3	1323.1	1308.4
32.5°	680.1	732.7	790.2	860.5	944.3	1047.7	1157.3	1235.9	1271.9	1256.8	1196.9
35°	645.9	693.3	749.0	819.4	915.7	1042.1	1148.3	1201.6	1192.7	1107.2	994.5
37.5°	609.2	647.9	699.5	773.0	886.0	1019.8	1109.5	1117.3	1040.4	909.4	779.2
40°	580.2	615.1	668.1	744.9	863.1	998.0	1070.4	1038.7	919.4	773.6	664.9
42.5°	552.1	581.5	632.5	715.4	841.2	968.2	1012.2	943.0	805.5	667.5	568.8
45°	504.4	532.1	583.4	668.4	796.5	911.2	905.4	785.2	647.6	536.5	454.6
47.5°	459.2	483.4	531.5	618.3	744.0	825.8	771.5	643.6	526.8	437.8	379.3
50°	427.3	451.2	499.0	584.7	701.9	761.6	684.1	560.8	453.9	380.1	333.7
52.5°	396.6	420.0	463.8	547.2	651.0	686.8	603.5	489.2	400.1	336.4	296.5
55°	353.8	371.6	410.9	490.8	568.3	576.5	492.1	396.5	323.1	278.7	251.4
57.5°	310.2	325.5	364.3	427.9	482.3	478.0	398.1	315.4	265.9	232.9	213.1
60°	281.8	296.8	330.9	385.6	426.6	412.2	338.9	272.2	229.9	205.6	189.9
62.5°	255.3	267.0	299.0	338.9	368.4	352.1	289.6	234.5	200.9	180.5	168.0
65°	216.9	226.4	252.1	272.9	289.3	273.6	221.7	183.4	159.2	144.8	136.3
67.5°	180.4	186.5	202.7	210.2	221.8	204.6	166.7	141.1	127.2	115.2	109.2
70°	157.5	161.9	170.4	176.6	179.7	161.9	133.8	115.1	103.5	95.0	91.2
72.5°	134.5	138.4	140.1	145.2	143.6	126.9	107.6	92.7	84.4	78.6	73.7
75°	102.8	104.5	102.8	100.8	96.3	84.7	71.4	63.8	57.7	55.0	53.3
77.5°	74.9	74.4	72.1	68.8	61.3	53.9	46.8	44.2	41.6	40.1	39.6
80°	57.7	56.4	54.3	49.2	42.7	37.5	35.8	34.2	33.2	31.4	31.1
82.5°	43.0	42.2	38.7	34.4	29.9	27.5	26.0	25.4	24.3	23.5	23.5
85°	22.9	21.8	18.1	15.7	15.1	14.4	14.0	14.0	12.7	12.3	12.3
87.5°	7.9	6.7	6.9	6.4	6.9	6.9	7.6	7.6	7.8	8.3	7.8
90°	2.9	4.8	6.9	8.8	11.1	13.6	16.2	18.8	21.4	22.1	22.9
92.5°	22.9	24.3	25.6	26.9	28.4	29.8	31.2	32.7	34.2	34.8	35.5
95°	53.9	55.3	56.7	58.1	59.6	61.1	62.7	64.3	65.9	66.7	67.4
97.5°	94.3	95.3	96.4	97.4	98.4	99.6	100.8	101.9	103.1	104.0	104.9
100°	122.3	123.4	124.6	125.8	126.9	127.9	128.9	129.8	130.8	131.4	132.1
102.5°	153.8	154.5	155.2	156.0	156.9	158.3	159.5	160.9	162.2	162.7	163.4
105°	200.6	201.1	201.4	201.9	203.0	204.7	206.5	208.3	210.1	210.1	210.1
107.5°	255.4	255.6	255.8	256.1	256.5	257.3	258.0	258.7	259.4	260.0	260.6
110°	289.7	290.1	290.4	290.9	291.2	291.7	292.0	292.5	292.8	293.6	294.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	325.1	325.4	325.6	325.8	326.0	326.1	326.2	326.3	326.3	327.3	328.2
115°	378.9	379.5	380.0	380.7	380.8	380.4	380.0	379.6	379.2	379.4	379.6
117.5°	432.5	432.8	433.3	433.6	433.5	433.1	432.6	432.0	431.5	431.5	431.4
120°	466.7	467.9	469.1	470.3	470.4	469.4	468.4	467.4	466.5	466.2	466.0
122.5°	501.3	502.1	503.0	503.9	504.1	503.5	503.0	502.6	502.0	501.5	501.0
125°	554.3	554.8	555.4	556.0	556.2	555.7	555.4	554.9	554.6	553.8	552.9
127.5°	604.0	605.3	606.5	607.9	608.2	607.8	607.4	607.0	606.5	605.4	604.3
130°	637.1	638.7	640.2	641.9	642.4	641.8	641.1	640.6	640.0	639.2	638.4
132.5°	669.9	671.5	673.1	674.7	675.2	674.8	674.3	673.9	673.4	672.5	671.5
135°	719.5	720.7	721.8	723.1	723.5	723.4	723.2	723.0	722.7	722.0	721.2
137.5°	765.6	766.6	767.6	768.6	769.3	769.8	770.3	770.9	771.3	770.5	769.7
140°	797.6	798.6	799.6	800.6	801.2	801.4	801.6	801.8	802.0	801.8	801.6
142.5°	826.8	827.9	828.8	829.8	830.5	830.8	831.2	831.5	831.9	831.7	831.5
145°	871.8	872.2	872.6	873.0	873.5	874.1	874.7	875.3	875.8	875.7	875.5
147.5°	912.0	912.8	913.5	914.2	914.8	915.3	915.9	916.4	917.0	917.0	917.0
150°	939.5	939.9	940.2	940.7	941.0	941.5	941.8	942.3	942.6	942.6	942.6
152.5°	962.4	963.0	963.5	964.0	964.5	964.7	964.9	965.2	965.5	965.7	966.1
155°	997.8	997.8	997.8	997.8	997.9	998.1	998.3	998.5	998.7	999.5	1000.3
157.5°	1028.2	1028.0	1027.7	1027.5	1027.4	1027.6	1027.8	1028.0	1028.1	1028.9	1029.7
160°	1047.2	1046.9	1046.5	1046.1	1045.9	1045.9	1045.9	1045.9	1045.9	1046.9	1047.8
162.5°	1064.2	1063.6	1063.1	1062.6	1062.4	1062.5	1062.7	1062.8	1063.0	1064.0	1065.0
165°	1086.2	1085.7	1085.0	1084.5	1084.1	1084.1	1084.1	1084.1	1084.1	1085.3	1086.5
167.5°	1103.7	1102.9	1102.1	1101.3	1101.0	1101.2	1101.3	1101.4	1101.6	1102.9	1104.0
170°	1113.7	1112.9	1112.1	1111.3	1110.9	1110.9	1110.9	1110.9	1110.9	1112.2	1113.7
172.5°	1121.5	1120.7	1119.9	1119.1	1118.7	1118.7	1118.7	1118.7	1118.7	1119.9	1121.1
175°	1129.6	1128.8	1128.1	1127.3	1126.9	1126.9	1126.9	1126.9	1126.9	1128.1	1129.3
177.5°	1133.2	1132.6	1131.9	1131.3	1131.0	1131.0	1131.0	1131.0	1131.0	1131.9	1132.9
180°	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	841.6	841.6	842.7	846.8	847.3	850.9	849.7
5°	924.9	931.4	933.8	944.1	950.2	952.9	947.4
7.5°	1026.8	1045.1	1053.8	1064.5	1074.0	1076.9	1069.4
10°	1101.2	1120.3	1136.3	1146.2	1155.5	1161.5	1169.5
12.5°	1173.0	1196.5	1211.7	1225.7	1235.2	1243.0	1244.3
15°	1251.1	1286.6	1313.6	1333.4	1343.3	1348.4	1346.4
17.5°	1329.8	1362.7	1382.0	1402.1	1415.9	1416.6	1417.0
20°	1374.4	1406.5	1428.7	1443.7	1459.1	1458.4	1461.8
22.5°	1404.2	1429.4	1446.4	1457.3	1462.6	1460.0	1460.7
25°	1418.1	1425.6	1422.5	1405.1	1400.7	1384.6	1387.3
27.5°	1346.2	1310.7	1274.0	1226.6	1189.4	1159.6	1161.1
30°	1248.7	1185.8	1114.1	1054.0	1000.1	985.0	952.9
32.5°	1112.3	1018.1	934.1	878.1	831.7	819.1	791.1
35°	881.2	789.6	703.2	651.3	630.8	602.2	601.8
37.5°	684.9	604.3	558.7	519.7	499.3	481.9	480.2
40°	576.2	513.4	478.8	450.8	430.7	417.7	414.6
42.5°	500.2	449.4	417.1	399.8	384.2	377.6	372.6
45°	408.5	374.3	351.8	336.1	328.9	323.8	321.0
47.5°	341.7	318.8	303.4	293.0	287.1	281.8	283.2
50°	305.3	286.6	275.3	265.4	260.9	257.2	257.5
52.5°	276.1	259.2	250.1	243.0	237.5	234.8	233.4
55°	234.3	223.7	214.5	209.4	206.3	202.5	201.5
57.5°	199.8	191.6	184.1	178.3	177.6	174.0	174.4
60°	176.9	170.0	163.9	160.9	158.5	155.4	156.4
62.5°	158.1	152.3	146.7	144.2	141.8	139.6	140.0
65°	129.5	123.9	120.6	119.2	118.2	117.2	116.1
67.5°	103.2	99.8	97.6	94.7	92.6	92.3	91.2
70°	86.8	82.3	78.6	74.8	73.7	73.4	73.7
72.5°	69.6	66.7	65.7	63.8	63.7	62.8	63.4
75°	52.3	51.3	50.6	49.2	49.2	49.2	49.2
77.5°	38.5	37.9	37.5	37.2	36.9	36.4	36.4
80°	30.1	29.7	29.1	29.1	28.7	29.1	28.7
82.5°	22.6	22.6	21.9	21.9	21.6	21.4	21.6
85°	11.6	11.2	11.9	11.2	11.6	11.0	11.6
87.5°	8.0	8.2	8.0	8.1	7.9	8.6	8.1
90°	23.7	24.5	25.1	25.5	25.9	26.3	26.7
92.5°	36.1	36.7	36.9	36.6	36.5	36.2	35.9
95°	68.2	69.0	69.5	69.5	69.5	69.5	69.5
97.5°	105.8	106.7	107.1	107.1	107.0	106.9	106.8
100°	132.6	133.2	133.8	134.1	134.5	134.9	135.3
102.5°	164.0	164.5	164.8	164.7	164.6	164.6	164.5
105°	210.1	210.1	210.3	210.6	211.1	211.4	211.9
107.5°	261.3	261.9	262.1	261.9	261.6	261.4	261.2
110°	295.2	296.0	296.2	295.8	295.4	295.1	294.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	329.1	330.1	330.6	330.5	330.4	330.3	330.2
115°	379.8	380.0	380.0	379.8	379.6	379.4	379.2
117.5°	431.4	431.4	431.1	430.5	430.0	429.4	428.8
120°	465.8	465.7	465.3	464.9	464.6	464.1	463.8
122.5°	500.5	500.0	499.4	498.9	498.3	497.8	497.2
125°	552.1	551.3	550.5	549.8	549.0	548.2	547.4
127.5°	603.2	602.1	601.1	600.2	599.2	598.3	597.4
130°	637.6	636.9	635.7	634.4	632.9	631.6	630.2
132.5°	670.7	669.7	668.7	667.6	666.6	665.5	664.4
135°	720.4	719.6	719.0	718.6	718.2	717.8	717.5
137.5°	768.9	768.0	767.2	766.5	765.7	765.0	764.3
140°	801.4	801.2	800.4	799.1	797.6	796.3	794.9
142.5°	831.3	831.1	830.5	829.4	828.3	827.2	826.2
145°	875.3	875.0	874.6	873.8	873.0	872.2	871.4
147.5°	917.0	917.0	916.4	915.3	914.0	912.8	911.7
150°	942.6	942.6	942.0	940.8	939.7	938.4	937.3
152.5°	966.3	966.7	966.3	965.3	964.3	963.2	962.2
155°	1001.1	1001.8	1001.6	1000.2	998.8	997.4	996.0
157.5°	1030.6	1031.4	1031.3	1030.2	1029.0	1028.0	1026.8
160°	1048.8	1049.8	1049.9	1049.2	1048.4	1047.6	1046.8
162.5°	1066.0	1066.9	1066.8	1065.5	1064.3	1063.0	1061.8
165°	1087.7	1088.9	1088.8	1087.4	1086.0	1084.7	1083.3
167.5°	1105.3	1106.5	1106.5	1105.3	1104.0	1102.9	1101.6
170°	1115.0	1116.4	1116.4	1115.0	1113.7	1112.2	1110.9
172.5°	1122.4	1123.6	1123.6	1122.1	1120.8	1119.4	1117.9
175°	1130.4	1131.7	1131.5	1130.2	1128.7	1127.4	1126.0
177.5°	1133.8	1134.8	1134.7	1133.6	1132.5	1131.4	1130.2
180°	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1

(END OF REPORT)