

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: P331774-840

Luminaire Tested: **S122RDIW-S290D970U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331774-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIW-S290D970U840-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 970 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4535.0 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

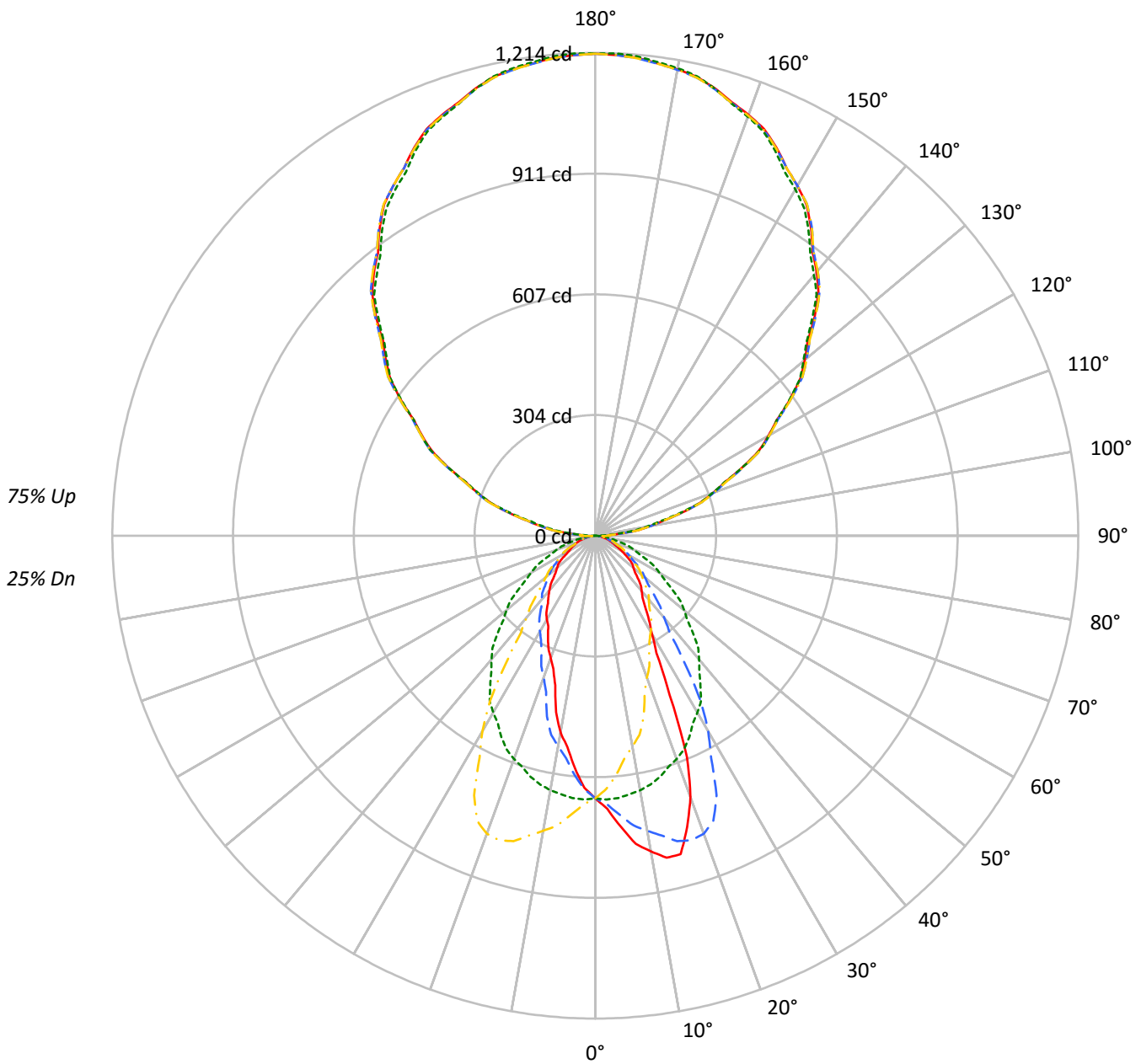
Input Watts (W): 38
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	90	90	90	90	70	70	70	51	51	51	33	33	33	25
1	93	89	85	82	82	79	76	73	61	59	58	45	44	43	30	29	29	22
2	85	78	72	67	75	70	65	61	54	51	48	40	38	36	27	26	25	19
3	77	69	62	57	69	62	56	51	48	44	41	36	33	31	24	23	22	17
4	71	61	54	48	63	55	49	44	43	39	35	32	29	27	22	20	19	15
5	65	54	47	41	58	49	42	38	39	34	31	29	26	24	20	18	17	13
6	60	49	41	36	53	44	37	33	35	30	27	26	23	21	18	16	15	12
7	56	44	37	31	49	40	33	29	32	27	24	24	21	19	17	15	14	11
8	52	40	33	28	46	36	30	26	29	24	21	22	19	17	16	14	12	10
9	48	36	29	25	43	33	27	23	26	22	19	20	17	15	14	13	11	9
10	45	33	27	22	40	30	24	20	24	20	17	19	16	14	13	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10658	10658	10658	10658
5°	11904	10726	9511	10726
10°	13209	10650	8243	10650
15°	13857	10494	6496	10494
20°	12014	10263	5620	10263
25°	7878	9948	5018	9948
30°	5304	9562	4542	9562
35°	4295	9079	4096	9079
40°	3819	8553	3792	8553
45°	3457	7935	3382	7935
50°	3145	7322	3135	7322
55°	2956	6643	2919	6643
60°	2474	6022	2444	6022
65°	2086	5467	2365	5467
70°	1926	4881	2233	4881
75°	1803	4255	2059	4255
80°	1664	3505	1832	3505
85°	1538	2760	1612	2760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.6	1.4
10°-20°	174.4	3.8
20°-30°	224.7	5.0
30°-40°	213.5	4.7
40°-50°	182.9	4.0
50°-60°	139.3	3.1
60°-70°	88.1	1.9
70°-80°	44.0	1.0
80°-90°	16.3	0.4
90°-100°	76.8	1.7
100°-110°	238.5	5.3
110°-120°	407.7	9.0
120°-130°	536.2	11.8
130°-140°	601.8	13.3
140°-150°	590.1	13.0
150°-160°	494.9	10.9
160°-170°	328.3	7.2
170°-180°	114.7	2.5
0°-30°	461.7	10.2
0°-40°	675.2	14.9
0°-60°	997.5	22.0
0°-90°	1145.8	25.3
90°-120°	723.1	15.9
90°-150°	2451.2	54.1
90°-180°	3389.0	74.7
0°-180°	4535.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	660	660	660	660	660	
5°	734	662	587	662	734	72
15°	829	628	389	628	829	224
25°	442	558	282	558	442	210
35°	218	461	208	461	218	139
45°	151	348	148	348	151	117
55°	105	236	104	236	105	92
65°	55	143	62	143	55	56
75°	29	68	33	68	29	31
85°	8	15	9	15	8	10
90°	35	1	35	1	35	15
95°	63	53	63	53	63	71
105°	227	220	227	220	227	239
115°	409	409	409	409	409	404
125°	597	595	597	595	597	532
135°	779	770	779	770	779	600
145°	945	935	945	935	945	590
155°	1077	1069	1077	1069	1077	496
165°	1164	1163	1164	1163	1164	328
175°	1206	1210	1206	1210	1206	115
180°	1212	1212	1212	1212	1212	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	687.0	687.5	688.1	686.8	686.8	685.7	683.3	681.5	676.3	675.6	675.6
5°	734.5	734.1	735.0	732.0	727.9	726.9	722.6	716.8	710.8	704.3	702.9
7.5°	781.7	781.0	779.2	778.7	775.6	768.6	761.6	754.2	744.3	734.6	729.7
10°	805.7	813.2	808.6	800.6	802.1	791.4	785.7	775.8	767.5	753.1	749.9
12.5°	829.1	832.1	830.6	826.1	824.0	816.6	808.8	800.2	785.0	772.0	760.7
15°	829.0	833.3	834.6	833.1	834.2	833.8	829.7	822.6	809.3	795.1	782.6
17.5°	767.8	770.8	778.4	783.5	789.9	803.4	810.2	812.7	810.8	802.6	794.0
20°	699.2	694.2	715.3	726.0	735.2	758.1	777.9	785.5	797.6	797.4	795.1
22.5°	601.9	603.1	623.1	635.9	662.7	685.7	708.1	736.6	760.1	775.7	784.8
25°	442.2	451.0	470.9	488.4	518.2	560.9	599.7	644.6	687.0	720.5	752.5
27.5°	332.1	332.9	348.6	364.8	382.4	417.4	466.3	519.9	580.4	630.4	687.7
30°	284.5	283.1	289.7	299.6	314.8	341.8	378.5	431.2	491.6	566.8	633.8
32.5°	250.6	250.7	255.8	263.1	275.6	293.9	319.0	361.9	418.9	492.9	571.4
35°	217.9	217.7	221.4	226.6	231.9	243.6	260.8	283.3	322.6	391.5	471.8
37.5°	194.4	195.4	197.2	200.6	206.3	212.9	223.2	238.3	266.2	307.1	374.6
40°	181.2	181.7	184.2	186.9	190.4	195.4	203.9	216.1	236.5	269.0	318.4
42.5°	169.2	169.6	171.4	173.9	176.6	181.7	188.7	199.2	215.8	241.2	281.9
45°	151.4	151.4	153.0	154.1	157.1	161.7	167.4	176.2	187.6	206.4	233.5
47.5°	134.8	134.8	135.9	137.8	139.8	143.3	149.0	156.1	164.4	178.9	202.1
50°	125.2	125.5	126.1	127.7	129.0	132.1	136.5	142.7	151.4	162.7	181.9
52.5°	117.5	117.4	118.3	119.0	119.8	122.0	125.3	130.8	138.6	148.3	164.3
55°	105.0	104.1	105.5	106.6	107.3	108.3	110.1	113.5	120.2	128.5	140.4
57.5°	89.5	89.1	90.1	91.1	93.3	95.7	97.4	99.5	102.9	108.9	120.7
60°	76.6	76.6	78.7	79.4	81.9	85.1	88.4	90.2	93.6	97.5	106.2
62.5°	65.2	65.4	66.3	67.1	68.5	72.4	77.0	81.0	84.2	88.0	93.7
65°	54.6	55.0	55.0	55.5	56.5	57.4	59.2	62.4	68.2	73.4	77.8
67.5°	46.4	46.5	46.7	47.1	47.3	48.3	49.1	50.5	51.8	56.8	62.2
70°	40.8	41.5	41.3	41.7	42.0	42.4	43.3	44.0	46.2	47.3	50.5
72.5°	35.6	36.2	36.2	36.5	37.1	37.2	37.9	38.6	39.9	40.8	42.6
75°	28.9	28.7	28.9	29.4	29.6	29.8	29.8	30.7	31.4	32.3	33.5
77.5°	22.3	22.5	22.5	22.5	22.6	23.0	22.9	23.3	24.0	24.5	25.0
80°	17.9	18.1	17.9	18.1	18.4	18.6	18.4	18.6	19.3	19.7	19.7
82.5°	13.8	13.9	14.0	14.0	14.1	14.1	14.5	14.5	15.0	14.9	15.1
85°	8.3	8.1	8.1	8.1	8.3	8.5	8.3	8.3	8.5	8.5	8.5
87.5°	9.9	10.0	10.0	9.9	9.9	9.9	10.0	10.3	10.2	10.5	9.3
90°	34.7	34.5	34.3	34.1	33.8	33.9	34.4	34.8	35.3	35.7	30.8
92.5°	33.1	33.1	33.0	33.0	32.9	32.9	32.8	32.7	32.6	32.5	31.3
95°	63.4	63.8	64.3	64.7	65.2	65.4	65.4	65.4	65.4	65.4	65.0
97.5°	109.9	109.9	110.0	110.0	110.1	110.1	110.1	110.1	110.1	110.1	109.2
100°	140.2	140.4	140.6	140.8	141.1	141.2	141.2	141.2	141.2	141.2	140.5
102.5°	174.5	174.7	174.9	175.2	175.4	175.4	175.2	175.1	174.9	174.7	173.8
105°	227.1	227.1	227.1	227.1	227.1	226.8	226.4	225.9	225.5	225.0	224.6
107.5°	276.6	277.6	278.6	279.7	280.7	281.1	281.0	280.8	280.6	280.4	280.4
110°	315.1	315.7	316.4	317.1	317.8	318.1	318.1	318.1	318.1	318.1	318.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	351.8	352.3	352.8	353.4	353.9	354.4	355.0	355.5	356.0	356.6	356.8
115°	409.1	409.8	410.5	411.2	411.8	412.3	412.5	412.7	413.0	413.2	413.6
117.5°	463.7	464.4	465.1	465.9	466.5	467.1	467.7	468.2	468.8	469.3	470.6
120°	502.2	502.9	503.6	504.2	504.9	505.3	505.3	505.3	505.3	505.3	507.2
122.5°	539.9	540.4	540.9	541.4	541.9	542.4	542.9	543.5	544.0	544.5	545.8
125°	597.3	597.5	597.8	598.0	598.2	598.7	599.4	600.1	600.8	601.5	602.1
127.5°	649.7	650.5	651.2	651.9	652.6	653.4	654.2	655.0	655.8	656.7	657.5
130°	687.3	688.2	689.1	690.0	690.9	691.7	692.2	692.6	693.1	693.5	694.0
132.5°	723.4	724.1	724.8	725.6	726.3	727.1	728.1	729.1	730.1	731.1	731.0
135°	779.4	780.1	780.7	781.4	782.1	782.5	782.8	783.0	783.3	783.5	783.0
137.5°	830.1	831.0	831.9	832.8	833.7	834.4	834.6	834.7	834.9	835.1	834.5
140°	865.4	866.3	867.2	868.1	869.0	869.4	869.4	869.4	869.4	869.4	868.3
142.5°	897.3	898.2	899.1	900.0	900.9	901.2	901.1	900.9	900.7	900.5	899.8
145°	945.1	946.0	947.0	947.9	948.8	949.1	948.9	948.7	948.4	948.2	946.8
147.5°	987.8	988.8	989.6	990.5	991.3	991.5	991.0	990.5	990.0	989.5	988.6
150°	1015.7	1016.3	1017.0	1017.7	1018.4	1018.4	1017.7	1017.0	1016.3	1015.7	1014.8
152.5°	1041.9	1042.7	1043.6	1044.5	1045.3	1045.3	1044.5	1043.6	1042.7	1041.9	1040.8
155°	1077.0	1077.7	1078.4	1079.1	1079.7	1079.5	1078.4	1077.3	1076.1	1075.0	1074.3
157.5°	1107.3	1108.4	1109.5	1110.6	1111.7	1111.5	1109.9	1108.4	1106.8	1105.3	1104.9
160°	1126.2	1127.1	1128.0	1128.9	1129.8	1129.5	1128.2	1126.8	1125.5	1124.1	1123.9
162.5°	1142.6	1143.6	1144.7	1145.8	1146.9	1146.7	1145.1	1143.6	1142.1	1140.4	1140.2
165°	1164.0	1165.2	1166.3	1167.4	1168.5	1168.3	1166.7	1165.2	1163.6	1162.0	1162.0
167.5°	1181.6	1182.8	1184.0	1185.2	1186.3	1186.1	1184.6	1183.0	1181.3	1179.7	1179.8
170°	1190.6	1191.9	1193.4	1194.7	1196.1	1196.0	1194.4	1192.8	1191.1	1189.6	1189.8
172.5°	1198.0	1199.3	1200.7	1202.0	1203.5	1203.3	1201.7	1200.1	1198.5	1196.9	1197.2
175°	1206.0	1207.3	1208.7	1210.0	1211.4	1211.2	1209.7	1208.1	1206.5	1204.9	1205.4
177.5°	1209.6	1210.7	1211.8	1212.8	1214.0	1214.0	1212.8	1211.8	1210.7	1209.6	1210.0
180°	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	676.0	674.5	673.2	669.9	668.2	664.6	664.1	663.9	659.1	654.5	653.2
5°	699.2	695.5	690.0	683.6	676.9	670.0	665.5	661.8	652.6	643.9	638.8
7.5°	722.6	714.7	705.2	693.1	682.9	671.6	663.1	655.5	642.5	630.0	621.6
10°	740.0	727.2	714.6	697.8	684.7	671.9	659.9	649.6	635.0	618.4	606.7
12.5°	750.8	736.7	719.3	703.0	686.0	669.6	653.7	640.5	623.2	606.1	592.3
15°	765.5	750.3	729.2	705.8	684.1	662.7	644.4	627.8	605.4	584.9	567.9
17.5°	777.5	756.6	734.0	706.9	681.7	654.6	631.0	609.9	584.8	560.2	540.2
20°	781.3	760.6	734.5	707.4	677.6	645.7	620.3	597.3	570.5	543.6	520.7
22.5°	778.9	762.9	733.8	701.4	670.9	637.5	608.7	582.1	552.3	524.9	498.4
25°	762.8	757.2	729.7	694.4	659.5	620.8	587.4	558.4	524.4	495.0	466.2
27.5°	725.0	736.9	719.8	682.2	643.4	601.9	564.4	531.3	496.0	463.0	434.2
30°	688.6	715.9	708.6	673.7	630.4	589.6	547.5	512.9	475.3	441.3	412.9
32.5°	638.9	684.0	691.2	662.0	617.1	572.3	528.3	493.8	454.5	418.8	391.0
35°	559.7	627.1	658.1	639.5	594.6	546.1	500.8	460.6	421.1	385.9	358.3
37.5°	465.2	557.1	608.7	610.1	568.8	518.5	469.0	429.1	388.7	354.1	324.3
40°	403.9	503.5	570.8	585.6	550.8	496.4	446.4	405.8	366.4	332.3	298.2
42.5°	348.9	448.1	530.7	556.6	529.0	474.9	424.7	382.3	344.0	311.8	276.9
45°	282.2	368.9	459.9	506.2	490.9	440.9	387.9	347.5	311.5	283.8	250.2
47.5°	238.0	299.1	387.3	449.9	449.7	404.0	351.8	313.3	279.8	253.8	226.7
50°	212.9	266.1	340.6	411.7	417.7	379.4	329.8	291.5	260.3	233.1	211.3
52.5°	190.3	234.2	301.1	369.4	386.4	353.1	305.1	269.7	239.4	214.3	195.7
55°	160.8	194.8	245.7	309.4	335.2	311.7	269.0	236.0	211.5	190.4	174.3
57.5°	136.0	161.5	202.4	253.7	283.6	268.9	233.7	206.8	185.8	166.7	154.1
60°	120.5	141.3	175.9	218.8	251.9	241.6	211.5	186.5	168.6	152.1	140.2
62.5°	105.7	123.7	153.4	188.2	218.4	214.2	189.7	168.6	153.0	137.9	127.8
65°	85.1	98.2	121.4	148.7	173.0	175.0	157.3	143.1	129.2	117.2	108.3
67.5°	67.8	76.3	92.6	115.6	133.8	140.4	129.6	118.7	107.6	98.4	90.6
70°	57.2	64.0	75.9	94.5	111.3	118.2	111.9	103.4	93.8	86.2	79.6
72.5°	46.3	53.0	61.8	75.4	89.8	97.3	95.0	89.0	81.2	74.8	68.6
75°	34.8	37.0	42.9	52.1	63.3	69.8	71.3	68.2	61.9	57.2	53.4
77.5°	25.8	27.1	29.9	34.6	42.0	47.8	50.1	49.7	45.4	42.7	39.2
80°	20.6	21.3	22.7	24.7	30.3	36.1	37.7	37.7	34.6	33.5	30.1
82.5°	15.7	16.2	17.1	18.2	20.7	25.8	27.6	27.9	26.1	24.5	21.8
85°	9.0	8.7	9.2	9.9	10.3	11.7	14.4	14.9	14.4	12.6	11.9
87.5°	8.3	7.5	6.5	5.6	5.2	4.7	5.2	5.6	5.4	5.4	5.6
90°	25.8	20.8	15.8	11.9	9.2	6.5	3.7	1.0	3.7	6.5	9.2
92.5°	30.2	29.0	27.8	26.3	24.2	22.2	20.2	18.2	20.2	22.2	24.2
95°	64.5	64.1	63.6	62.3	60.0	57.8	55.4	53.2	55.4	57.8	60.0
97.5°	108.4	107.4	106.6	105.1	103.2	101.2	99.2	97.1	99.2	101.2	103.2
100°	139.8	139.1	138.5	137.1	135.3	133.5	131.7	129.9	131.7	133.5	135.3
102.5°	173.0	172.1	171.3	170.1	168.6	167.1	165.7	164.3	165.7	167.1	168.6
105°	224.1	223.7	223.2	222.7	222.0	221.3	220.6	219.9	220.6	221.3	222.0
107.5°	280.4	280.4	280.4	279.9	278.9	277.9	277.0	276.0	277.0	277.9	278.9
110°	318.1	318.1	318.1	317.4	316.1	314.7	313.4	311.9	313.4	314.7	316.1



TEST NUMBER: P331774-840

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	356.9	357.1	357.3	356.7	355.4	354.0	352.6	351.2	352.6	354.0	355.4
115°	414.1	414.5	415.1	414.5	413.2	411.8	410.5	409.1	410.5	411.8	413.2
117.5°	471.8	473.1	474.3	474.1	472.3	470.5	468.7	466.9	468.7	470.5	472.3
120°	509.0	510.8	512.6	512.6	510.8	509.0	507.2	505.3	507.2	509.0	510.8
122.5°	547.1	548.4	549.7	549.2	547.0	544.8	542.7	540.5	542.7	544.8	547.0
125°	602.8	603.5	604.2	603.5	601.5	599.4	597.3	595.3	597.3	599.4	601.5
127.5°	658.3	659.1	659.9	659.0	656.5	653.9	651.3	648.7	651.3	653.9	656.5
130°	694.4	694.9	695.3	694.1	691.2	688.1	685.2	682.3	685.2	688.1	691.2
132.5°	730.9	730.8	730.7	729.5	727.1	724.7	722.3	719.8	722.3	724.7	727.1
135°	782.5	782.1	781.6	780.2	777.7	775.2	772.7	770.2	772.7	775.2	777.7
137.5°	833.8	833.2	832.7	831.3	829.3	827.3	825.3	823.1	825.3	827.3	829.3
140°	867.2	866.1	864.8	863.2	861.2	859.2	857.2	855.1	857.2	859.2	861.2
142.5°	899.0	898.2	897.5	896.1	893.9	891.9	889.9	887.9	889.9	891.9	893.9
145°	945.4	944.1	942.7	941.3	939.7	938.1	936.4	934.8	936.4	938.1	939.7
147.5°	987.6	986.7	985.8	984.4	982.5	980.7	978.8	976.8	978.8	980.7	982.5
150°	1013.9	1013.0	1012.1	1010.9	1009.6	1008.1	1006.8	1005.4	1006.8	1008.1	1009.6
152.5°	1039.7	1038.6	1037.5	1036.3	1034.9	1033.6	1032.2	1030.9	1032.2	1033.6	1034.9
155°	1073.7	1073.0	1072.3	1071.6	1071.0	1070.3	1069.5	1068.8	1069.5	1070.3	1071.0
157.5°	1104.5	1104.1	1103.7	1103.2	1102.8	1102.3	1101.9	1101.4	1101.9	1102.3	1102.8
160°	1123.7	1123.5	1123.2	1122.9	1122.4	1122.0	1121.5	1121.1	1121.5	1122.0	1122.4
162.5°	1140.0	1139.8	1139.5	1139.4	1139.3	1139.2	1139.1	1139.0	1139.1	1139.2	1139.3
165°	1162.0	1162.0	1162.0	1162.1	1162.3	1162.6	1162.8	1163.0	1162.8	1162.6	1162.3
167.5°	1179.8	1179.9	1179.9	1180.3	1180.9	1181.6	1182.3	1183.1	1182.3	1181.6	1180.9
170°	1190.0	1190.2	1190.5	1190.9	1191.6	1192.3	1193.0	1193.7	1193.0	1192.3	1191.6
172.5°	1197.4	1197.6	1197.8	1198.3	1199.0	1199.6	1200.3	1201.0	1200.3	1199.6	1199.0
175°	1205.8	1206.3	1206.7	1207.3	1208.0	1208.7	1209.3	1210.0	1209.3	1208.7	1208.0
177.5°	1210.3	1210.7	1211.0	1211.5	1212.0	1212.6	1213.2	1213.8	1213.2	1212.6	1212.0
180°	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	650.9	649.5	647.1	643.5	641.3	637.4	634.9	636.3	636.7	636.3	636.0
5°	633.4	628.5	621.9	615.4	609.5	603.1	599.4	597.8	594.6	592.8	591.8
7.5°	612.2	603.9	594.5	583.3	573.8	563.8	558.8	556.2	549.7	546.1	543.0
10°	596.4	583.3	573.9	559.3	550.3	537.2	528.3	528.6	519.6	514.5	510.9
12.5°	579.0	564.6	549.0	535.7	523.3	512.8	502.0	497.7	488.2	483.3	473.4
15°	550.1	533.3	516.8	499.0	486.4	470.0	454.4	435.4	420.0	406.7	403.0
17.5°	518.6	497.8	481.2	460.2	438.6	411.2	393.1	382.0	372.8	365.8	360.5
20°	496.9	475.7	458.1	426.5	397.3	378.7	365.5	356.9	347.3	339.7	335.6
22.5°	474.1	452.1	428.0	392.6	369.9	355.1	343.3	333.5	326.9	321.0	317.2
25°	441.8	417.7	378.0	353.8	335.4	319.7	311.5	305.6	298.7	290.6	287.0
27.5°	407.7	369.4	340.8	322.8	305.3	295.2	287.7	278.8	272.7	269.0	265.2
30°	382.1	343.9	321.6	301.8	289.5	278.2	269.5	264.5	258.5	252.4	249.8
32.5°	353.8	323.2	301.7	285.4	272.8	263.2	256.3	248.1	243.9	240.0	234.8
35°	318.4	295.2	275.7	262.5	250.4	242.7	234.7	229.8	222.1	218.8	216.8
37.5°	288.5	268.4	253.9	239.8	230.4	221.8	216.8	209.1	205.8	201.3	196.9
40°	271.6	251.9	237.9	226.4	215.8	209.4	203.3	197.0	192.0	190.0	184.7
42.5°	254.4	238.3	224.3	211.8	204.7	197.8	190.1	185.5	180.3	176.9	173.7
45°	230.6	216.3	204.4	194.1	186.2	179.2	174.1	166.5	163.6	156.9	154.1
47.5°	209.6	196.4	185.0	175.2	167.6	163.0	155.6	149.7	144.9	140.8	137.2
50°	194.8	183.7	172.7	164.0	157.1	150.5	142.9	140.0	132.6	130.5	128.5
52.5°	181.2	170.7	160.7	152.1	145.2	138.8	132.1	128.2	123.2	121.2	119.7
55°	162.2	152.1	142.5	134.9	128.1	121.4	117.2	112.4	110.1	108.5	106.6
57.5°	143.1	134.0	126.6	119.0	112.0	106.7	102.0	99.1	96.7	94.6	92.4
60°	131.0	122.3	115.6	108.5	101.4	97.0	93.4	89.9	87.2	83.9	83.0
62.5°	118.2	110.5	104.4	97.5	91.3	87.4	83.8	80.6	77.3	72.6	71.3
65°	100.5	94.5	88.1	82.3	76.9	72.9	67.9	64.2	62.8	62.4	62.2
67.5°	84.5	78.9	73.3	67.5	62.5	58.9	56.2	55.7	54.7	54.5	53.8
70°	73.8	68.6	63.1	57.6	52.7	52.1	51.2	50.2	49.1	48.7	48.2
72.5°	64.3	58.9	53.3	49.0	46.9	46.0	45.1	44.1	43.4	42.9	42.7
75°	49.3	44.2	40.6	39.0	37.9	37.2	35.7	35.1	34.6	33.9	33.7
77.5°	35.5	32.6	31.0	30.0	28.8	28.1	27.3	26.6	26.1	26.0	25.5
80°	27.1	25.7	24.5	23.1	22.7	21.8	21.6	20.9	21.1	20.4	20.4
82.5°	21.0	19.3	18.3	17.7	17.2	16.5	16.3	16.0	16.0	15.5	15.5
85°	10.8	10.3	9.9	9.4	9.4	8.7	9.0	8.7	8.7	8.3	8.1
87.5°	5.9	6.5	7.1	8.1	9.1	9.9	9.8	9.6	9.5	9.4	9.2
90°	11.9	15.8	20.8	25.8	30.8	35.7	35.3	34.8	34.4	33.9	33.8
92.5°	26.3	27.8	29.0	30.2	31.3	32.5	32.6	32.7	32.8	32.9	32.9
95°	62.3	63.6	64.1	64.5	65.0	65.4	65.4	65.4	65.4	65.4	65.2
97.5°	105.1	106.6	107.4	108.4	109.2	110.1	110.1	110.1	110.1	110.1	110.1
100°	137.1	138.5	139.1	139.8	140.5	141.2	141.2	141.2	141.2	141.2	141.1
102.5°	170.1	171.3	172.1	173.0	173.8	174.7	174.9	175.1	175.2	175.4	175.4
105°	222.7	223.2	223.7	224.1	224.6	225.0	225.5	225.9	226.4	226.8	227.1
107.5°	279.9	280.4	280.4	280.4	280.4	280.4	280.6	280.8	281.0	281.1	280.7
110°	317.4	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	317.8



TEST NUMBER: P331774-840

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	356.7	357.3	357.1	356.9	356.8	356.6	356.0	355.5	355.0	354.4	353.9
115°	414.5	415.1	414.5	414.1	413.6	413.2	413.0	412.7	412.5	412.3	411.8
117.5°	474.1	474.3	473.1	471.8	470.6	469.3	468.8	468.2	467.7	467.1	466.5
120°	512.6	512.6	510.8	509.0	507.2	505.3	505.3	505.3	505.3	505.3	504.9
122.5°	549.2	549.7	548.4	547.1	545.8	544.5	544.0	543.5	542.9	542.4	541.9
125°	603.5	604.2	603.5	602.8	602.1	601.5	600.8	600.1	599.4	598.7	598.2
127.5°	659.0	659.9	659.1	658.3	657.5	656.7	655.8	655.0	654.2	653.4	652.6
130°	694.1	695.3	694.9	694.4	694.0	693.5	693.1	692.6	692.2	691.7	690.9
132.5°	729.5	730.7	730.8	730.9	731.0	731.1	730.1	729.1	728.1	727.1	726.3
135°	780.2	781.6	782.1	782.5	783.0	783.5	783.3	783.0	782.8	782.5	782.1
137.5°	831.3	832.7	833.2	833.8	834.5	835.1	834.9	834.7	834.6	834.4	833.7
140°	863.2	864.8	866.1	867.2	868.3	869.4	869.4	869.4	869.4	869.4	869.0
142.5°	896.1	897.5	898.2	899.0	899.8	900.5	900.7	900.9	901.1	901.2	900.9
145°	941.3	942.7	944.1	945.4	946.8	948.2	948.4	948.7	948.9	949.1	948.8
147.5°	984.4	985.8	986.7	987.6	988.6	989.5	990.0	990.5	991.0	991.5	991.3
150°	1010.9	1012.1	1013.0	1013.9	1014.8	1015.7	1016.3	1017.0	1017.7	1018.4	1018.4
152.5°	1036.3	1037.5	1038.6	1039.7	1040.8	1041.9	1042.7	1043.6	1044.5	1045.3	1045.3
155°	1071.6	1072.3	1073.0	1073.7	1074.3	1075.0	1076.1	1077.3	1078.4	1079.5	1079.7
157.5°	1103.2	1103.7	1104.1	1104.5	1104.9	1105.3	1106.8	1108.4	1109.9	1111.5	1111.7
160°	1122.9	1123.2	1123.5	1123.7	1123.9	1124.1	1125.5	1126.8	1128.2	1129.5	1129.8
162.5°	1139.4	1139.5	1139.8	1140.0	1140.2	1140.4	1142.1	1143.6	1145.1	1146.7	1146.9
165°	1162.1	1162.0	1162.0	1162.0	1162.0	1162.0	1163.6	1165.2	1166.7	1168.3	1168.5
167.5°	1180.3	1179.9	1179.9	1179.8	1179.8	1179.7	1181.3	1183.0	1184.6	1186.1	1186.3
170°	1190.9	1190.5	1190.2	1190.0	1189.8	1189.6	1191.1	1192.8	1194.4	1196.0	1196.1
172.5°	1198.3	1197.8	1197.6	1197.4	1197.2	1196.9	1198.5	1200.1	1201.7	1203.3	1203.5
175°	1207.3	1206.7	1206.3	1205.8	1205.4	1204.9	1206.5	1208.1	1209.7	1211.2	1211.4
177.5°	1211.5	1211.0	1210.7	1210.3	1210.0	1209.6	1210.7	1211.8	1212.8	1214.0	1214.0
180°	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0



TEST NUMBER: P331774-840

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	634.0	634.3	633.8	634.1	633.8	634.3	634.0	636.0	636.3	636.7	636.3
5°	590.7	587.9	587.4	586.8	587.4	587.9	590.7	591.8	592.8	594.6	597.8
7.5°	539.1	538.7	537.5	535.8	537.5	538.7	539.1	543.0	546.1	549.7	556.2
10°	505.8	504.6	504.4	502.8	504.4	504.6	505.8	510.9	514.5	519.6	528.6
12.5°	466.9	459.5	458.8	454.7	458.8	459.5	466.9	473.4	483.3	488.2	497.7
15°	397.6	396.2	391.5	388.6	391.5	396.2	397.6	403.0	406.7	420.0	435.4
17.5°	357.9	353.4	351.9	351.3	351.9	353.4	357.9	360.5	365.8	372.8	382.0
20°	332.3	328.3	327.6	327.1	327.6	328.3	332.3	335.6	339.7	347.3	356.9
22.5°	314.8	310.4	308.7	307.3	308.7	310.4	314.8	317.2	321.0	326.9	333.5
25°	284.7	283.1	282.2	281.7	282.2	283.1	284.7	287.0	290.6	298.7	305.6
27.5°	261.2	257.6	256.9	255.7	256.9	257.6	261.2	265.2	269.0	272.7	278.8
30°	247.7	246.6	245.0	243.6	245.0	246.6	247.7	249.8	252.4	258.5	264.5
32.5°	232.0	231.0	229.5	228.9	229.5	231.0	232.0	234.8	240.0	243.9	248.1
35°	214.5	211.3	209.8	207.8	209.8	211.3	214.5	216.8	218.8	222.1	229.8
37.5°	196.0	194.3	192.4	193.1	192.4	194.3	196.0	196.9	201.3	205.8	209.1
40°	181.7	180.6	180.1	179.9	180.1	180.6	181.7	184.7	190.0	192.0	197.0
42.5°	170.3	167.1	165.9	165.9	165.9	167.1	170.3	173.7	176.9	180.3	185.5
45°	153.0	150.1	147.9	148.1	147.9	150.1	153.0	154.1	156.9	163.6	166.5
47.5°	135.3	135.2	133.9	134.3	133.9	135.2	135.3	137.2	140.8	144.9	149.7
50°	126.8	125.5	124.5	124.8	124.5	125.5	126.8	128.5	130.5	132.6	140.0
52.5°	118.8	117.5	116.8	117.9	116.8	117.5	118.8	119.7	121.2	123.2	128.2
55°	105.5	104.1	103.9	103.7	103.9	104.1	105.5	106.6	108.5	110.1	112.4
57.5°	90.7	89.8	88.4	87.9	88.4	89.8	90.7	92.4	94.6	96.7	99.1
60°	80.1	78.3	75.9	75.7	75.9	78.3	80.1	83.0	83.9	87.2	89.9
62.5°	70.3	70.0	69.5	69.5	69.5	70.0	70.3	71.3	72.6	77.3	80.6
65°	61.7	61.5	61.7	61.9	61.7	61.5	61.7	62.2	62.4	62.8	64.2
67.5°	53.7	53.3	52.9	53.1	52.9	53.3	53.7	53.8	54.5	54.7	55.7
70°	47.7	47.5	47.3	47.3	47.3	47.5	47.7	48.2	48.7	49.1	50.2
72.5°	41.8	41.8	41.6	41.4	41.6	41.8	41.8	42.7	42.9	43.4	44.1
75°	33.5	33.0	33.0	33.0	33.0	33.0	33.5	33.7	33.9	34.6	35.1
77.5°	25.5	25.2	25.0	24.8	25.0	25.2	25.5	25.5	26.0	26.1	26.6
80°	20.2	20.0	19.7	19.7	19.7	20.0	20.2	20.4	20.4	21.1	20.9
82.5°	15.5	15.1	15.1	14.9	15.1	15.1	15.5	15.5	15.5	16.0	16.0
85°	8.3	8.5	8.3	8.7	8.3	8.5	8.3	8.1	8.3	8.7	8.7
87.5°	9.2	9.1	9.3	9.2	9.3	9.1	9.2	9.2	9.4	9.5	9.6
90°	34.1	34.3	34.5	34.7	34.5	34.3	34.1	33.8	33.9	34.4	34.8
92.5°	33.0	33.0	33.1	33.1	33.1	33.0	33.0	32.9	32.9	32.8	32.7
95°	64.7	64.3	63.8	63.4	63.8	64.3	64.7	65.2	65.4	65.4	65.4
97.5°	110.0	110.0	109.9	109.9	109.9	110.0	110.0	110.1	110.1	110.1	110.1
100°	140.8	140.6	140.4	140.2	140.4	140.6	140.8	141.1	141.2	141.2	141.2
102.5°	175.2	174.9	174.7	174.5	174.7	174.9	175.2	175.4	175.4	175.2	175.1
105°	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1	226.8	226.4	225.9
107.5°	279.7	278.6	277.6	276.6	277.6	278.6	279.7	280.7	281.1	281.0	280.8
110°	317.1	316.4	315.7	315.1	315.7	316.4	317.1	317.8	318.1	318.1	318.1



TEST NUMBER: P331774-840

CATALOG NUMBER: S122RDIW-S290D970U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	353.4	352.8	352.3	351.8	352.3	352.8	353.4	353.9	354.4	355.0	355.5
115°	411.2	410.5	409.8	409.1	409.8	410.5	411.2	411.8	412.3	412.5	412.7
117.5°	465.9	465.1	464.4	463.7	464.4	465.1	465.9	466.5	467.1	467.7	468.2
120°	504.2	503.6	502.9	502.2	502.9	503.6	504.2	504.9	505.3	505.3	505.3
122.5°	541.4	540.9	540.4	539.9	540.4	540.9	541.4	541.9	542.4	542.9	543.5
125°	598.0	597.8	597.5	597.3	597.5	597.8	598.0	598.2	598.7	599.4	600.1
127.5°	651.9	651.2	650.5	649.7	650.5	651.2	651.9	652.6	653.4	654.2	655.0
130°	690.0	689.1	688.2	687.3	688.2	689.1	690.0	690.9	691.7	692.2	692.6
132.5°	725.6	724.8	724.1	723.4	724.1	724.8	725.6	726.3	727.1	728.1	729.1
135°	781.4	780.7	780.1	779.4	780.1	780.7	781.4	782.1	782.5	782.8	783.0
137.5°	832.8	831.9	831.0	830.1	831.0	831.9	832.8	833.7	834.4	834.6	834.7
140°	868.1	867.2	866.3	865.4	866.3	867.2	868.1	869.0	869.4	869.4	869.4
142.5°	900.0	899.1	898.2	897.3	898.2	899.1	900.0	900.9	901.2	901.1	900.9
145°	947.9	947.0	946.0	945.1	946.0	947.0	947.9	948.8	949.1	948.9	948.7
147.5°	990.5	989.6	988.8	987.8	988.8	989.6	990.5	991.3	991.5	991.0	990.5
150°	1017.7	1017.0	1016.3	1015.7	1016.3	1017.0	1017.7	1018.4	1018.4	1017.7	1017.0
152.5°	1044.5	1043.6	1042.7	1041.9	1042.7	1043.6	1044.5	1045.3	1045.3	1044.5	1043.6
155°	1079.1	1078.4	1077.7	1077.0	1077.7	1078.4	1079.1	1079.7	1079.5	1078.4	1077.3
157.5°	1110.6	1109.5	1108.4	1107.3	1108.4	1109.5	1110.6	1111.7	1111.5	1109.9	1108.4
160°	1128.9	1128.0	1127.1	1126.2	1127.1	1128.0	1128.9	1129.8	1129.5	1128.2	1126.8
162.5°	1145.8	1144.7	1143.6	1142.6	1143.6	1144.7	1145.8	1146.9	1146.7	1145.1	1143.6
165°	1167.4	1166.3	1165.2	1164.0	1165.2	1166.3	1167.4	1168.5	1168.3	1166.7	1165.2
167.5°	1185.2	1184.0	1182.8	1181.6	1182.8	1184.0	1185.2	1186.3	1186.1	1184.6	1183.0
170°	1194.7	1193.4	1191.9	1190.6	1191.9	1193.4	1194.7	1196.1	1196.0	1194.4	1192.8
172.5°	1202.0	1200.7	1199.3	1198.0	1199.3	1200.7	1202.0	1203.5	1203.3	1201.7	1200.1
175°	1210.0	1208.7	1207.3	1206.0	1207.3	1208.7	1210.0	1211.4	1211.2	1209.7	1208.1
177.5°	1212.8	1211.8	1210.7	1209.6	1210.7	1211.8	1212.8	1214.0	1214.0	1212.8	1211.8
180°	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0



TEST NUMBER: P331774-840

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	634.9	637.4	641.3	643.5	647.1	649.5	650.9	653.2	654.5	659.1	663.9
5°	599.4	603.1	609.5	615.4	621.9	628.5	633.4	638.8	643.9	652.6	661.8
7.5°	558.8	563.8	573.8	583.3	594.5	603.9	612.2	621.6	630.0	642.5	655.5
10°	528.3	537.2	550.3	559.3	573.9	583.3	596.4	606.7	618.4	635.0	649.6
12.5°	502.0	512.8	523.3	535.7	549.0	564.6	579.0	592.3	606.1	623.2	640.5
15°	454.4	470.0	486.4	499.0	516.8	533.3	550.1	567.9	584.9	605.4	627.8
17.5°	393.1	411.2	438.6	460.2	481.2	497.8	518.6	540.2	560.2	584.8	609.9
20°	365.5	378.7	397.3	426.5	458.1	475.7	496.9	520.7	543.6	570.5	597.3
22.5°	343.3	355.1	369.9	392.6	428.0	452.1	474.1	498.4	524.9	552.3	582.1
25°	311.5	319.7	335.4	353.8	378.0	417.7	441.8	466.2	495.0	524.4	558.4
27.5°	287.7	295.2	305.3	322.8	340.8	369.4	407.7	434.2	463.0	496.0	531.3
30°	269.5	278.2	289.5	301.8	321.6	343.9	382.1	412.9	441.3	475.3	512.9
32.5°	256.3	263.2	272.8	285.4	301.7	323.2	353.8	391.0	418.8	454.5	493.8
35°	234.7	242.7	250.4	262.5	275.7	295.2	318.4	358.3	385.9	421.1	460.6
37.5°	216.8	221.8	230.4	239.8	253.9	268.4	288.5	324.3	354.1	388.7	429.1
40°	203.3	209.4	215.8	226.4	237.9	251.9	271.6	298.2	332.3	366.4	405.8
42.5°	190.1	197.8	204.7	211.8	224.3	238.3	254.4	276.9	311.8	344.0	382.3
45°	174.1	179.2	186.2	194.1	204.4	216.3	230.6	250.2	283.8	311.5	347.5
47.5°	155.6	163.0	167.6	175.2	185.0	196.4	209.6	226.7	253.8	279.8	313.3
50°	142.9	150.5	157.1	164.0	172.7	183.7	194.8	211.3	233.1	260.3	291.5
52.5°	132.1	138.8	145.2	152.1	160.7	170.7	181.2	195.7	214.3	239.4	269.7
55°	117.2	121.4	128.1	134.9	142.5	152.1	162.2	174.3	190.4	211.5	236.0
57.5°	102.0	106.7	112.0	119.0	126.6	134.0	143.1	154.1	166.7	185.8	206.8
60°	93.4	97.0	101.4	108.5	115.6	122.3	131.0	140.2	152.1	168.6	186.5
62.5°	83.8	87.4	91.3	97.5	104.4	110.5	118.2	127.8	137.9	153.0	168.6
65°	67.9	72.9	76.9	82.3	88.1	94.5	100.5	108.3	117.2	129.2	143.1
67.5°	56.2	58.9	62.5	67.5	73.3	78.9	84.5	90.6	98.4	107.6	118.7
70°	51.2	52.1	52.7	57.6	63.1	68.6	73.8	79.6	86.2	93.8	103.4
72.5°	45.1	46.0	46.9	49.0	53.3	58.9	64.3	68.6	74.8	81.2	89.0
75°	35.7	37.2	37.9	39.0	40.6	44.2	49.3	53.4	57.2	61.9	68.2
77.5°	27.3	28.1	28.8	30.0	31.0	32.6	35.5	39.2	42.7	45.4	49.7
80°	21.6	21.8	22.7	23.1	24.5	25.7	27.1	30.1	33.5	34.6	37.7
82.5°	16.3	16.5	17.2	17.7	18.3	19.3	21.0	21.8	24.5	26.1	27.9
85°	9.0	8.7	9.4	9.4	9.9	10.3	10.8	11.9	12.6	14.4	14.9
87.5°	9.8	9.9	9.1	8.1	7.1	6.5	5.9	5.6	5.4	5.4	5.6
90°	35.3	35.7	30.8	25.8	20.8	15.8	11.9	9.2	6.5	3.7	1.0
92.5°	32.6	32.5	31.3	30.2	29.0	27.8	26.3	24.2	22.2	20.2	18.2
95°	65.4	65.4	65.0	64.5	64.1	63.6	62.3	60.0	57.8	55.4	53.2
97.5°	110.1	110.1	109.2	108.4	107.4	106.6	105.1	103.2	101.2	99.2	97.1
100°	141.2	141.2	140.5	139.8	139.1	138.5	137.1	135.3	133.5	131.7	129.9
102.5°	174.9	174.7	173.8	173.0	172.1	171.3	170.1	168.6	167.1	165.7	164.3
105°	225.5	225.0	224.6	224.1	223.7	223.2	222.7	222.0	221.3	220.6	219.9
107.5°	280.6	280.4	280.4	280.4	280.4	280.4	279.9	278.9	277.9	277.0	276.0
110°	318.1	318.1	318.1	318.1	318.1	318.1	317.4	316.1	314.7	313.4	311.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	356.0	356.6	356.8	356.9	357.1	357.3	356.7	355.4	354.0	352.6	351.2
115°	413.0	413.2	413.6	414.1	414.5	415.1	414.5	413.2	411.8	410.5	409.1
117.5°	468.8	469.3	470.6	471.8	473.1	474.3	474.1	472.3	470.5	468.7	466.9
120°	505.3	505.3	507.2	509.0	510.8	512.6	512.6	510.8	509.0	507.2	505.3
122.5°	544.0	544.5	545.8	547.1	548.4	549.7	549.2	547.0	544.8	542.7	540.5
125°	600.8	601.5	602.1	602.8	603.5	604.2	603.5	601.5	599.4	597.3	595.3
127.5°	655.8	656.7	657.5	658.3	659.1	659.9	659.0	656.5	653.9	651.3	648.7
130°	693.1	693.5	694.0	694.4	694.9	695.3	694.1	691.2	688.1	685.2	682.3
132.5°	730.1	731.1	731.0	730.9	730.8	730.7	729.5	727.1	724.7	722.3	719.8
135°	783.3	783.5	783.0	782.5	782.1	781.6	780.2	777.7	775.2	772.7	770.2
137.5°	834.9	835.1	834.5	833.8	833.2	832.7	831.3	829.3	827.3	825.3	823.1
140°	869.4	869.4	868.3	867.2	866.1	864.8	863.2	861.2	859.2	857.2	855.1
142.5°	900.7	900.5	899.8	899.0	898.2	897.5	896.1	893.9	891.9	889.9	887.9
145°	948.4	948.2	946.8	945.4	944.1	942.7	941.3	939.7	938.1	936.4	934.8
147.5°	990.0	989.5	988.6	987.6	986.7	985.8	984.4	982.5	980.7	978.8	976.8
150°	1016.3	1015.7	1014.8	1013.9	1013.0	1012.1	1010.9	1009.6	1008.1	1006.8	1005.4
152.5°	1042.7	1041.9	1040.8	1039.7	1038.6	1037.5	1036.3	1034.9	1033.6	1032.2	1030.9
155°	1076.1	1075.0	1074.3	1073.7	1073.0	1072.3	1071.6	1071.0	1070.3	1069.5	1068.8
157.5°	1106.8	1105.3	1104.9	1104.5	1104.1	1103.7	1103.2	1102.8	1102.3	1101.9	1101.4
160°	1125.5	1124.1	1123.9	1123.7	1123.5	1123.2	1122.9	1122.4	1122.0	1121.5	1121.1
162.5°	1142.1	1140.4	1140.2	1140.0	1139.8	1139.5	1139.4	1139.3	1139.2	1139.1	1139.0
165°	1163.6	1162.0	1162.0	1162.0	1162.0	1162.0	1162.1	1162.3	1162.6	1162.8	1163.0
167.5°	1181.3	1179.7	1179.8	1179.8	1179.9	1179.9	1180.3	1180.9	1181.6	1182.3	1183.1
170°	1191.1	1189.6	1189.8	1190.0	1190.2	1190.5	1190.9	1191.6	1192.3	1193.0	1193.7
172.5°	1198.5	1196.9	1197.2	1197.4	1197.6	1197.8	1198.3	1199.0	1199.6	1200.3	1201.0
175°	1206.5	1204.9	1205.4	1205.8	1206.3	1206.7	1207.3	1208.0	1208.7	1209.3	1210.0
177.5°	1210.7	1209.6	1210.0	1210.3	1210.7	1211.0	1211.5	1212.0	1212.6	1213.2	1213.8
180°	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	664.1	664.6	668.2	669.9	673.2	674.5	676.0	675.6	675.6	676.3	681.5
5°	665.5	670.0	676.9	683.6	690.0	695.5	699.2	702.9	704.3	710.8	716.8
7.5°	663.1	671.6	682.9	693.1	705.2	714.7	722.6	729.7	734.6	744.3	754.2
10°	659.9	671.9	684.7	697.8	714.6	727.2	740.0	749.9	753.1	767.5	775.8
12.5°	653.7	669.6	686.0	703.0	719.3	736.7	750.8	760.7	772.0	785.0	800.2
15°	644.4	662.7	684.1	705.8	729.2	750.3	765.5	782.6	795.1	809.3	822.6
17.5°	631.0	654.6	681.7	706.9	734.0	756.6	777.5	794.0	802.6	810.8	812.7
20°	620.3	645.7	677.6	707.4	734.5	760.6	781.3	795.1	797.4	797.6	785.5
22.5°	608.7	637.5	670.9	701.4	733.8	762.9	778.9	784.8	775.7	760.1	736.6
25°	587.4	620.8	659.5	694.4	729.7	757.2	762.8	752.5	720.5	687.0	644.6
27.5°	564.4	601.9	643.4	682.2	719.8	736.9	725.0	687.7	630.4	580.4	519.9
30°	547.5	589.6	630.4	673.7	708.6	715.9	688.6	633.8	566.8	491.6	431.2
32.5°	528.3	572.3	617.1	662.0	691.2	684.0	638.9	571.4	492.9	418.9	361.9
35°	500.8	546.1	594.6	639.5	658.1	627.1	559.7	471.8	391.5	322.6	283.3
37.5°	469.0	518.5	568.8	610.1	608.7	557.1	465.2	374.6	307.1	266.2	238.3
40°	446.4	496.4	550.8	585.6	570.8	503.5	403.9	318.4	269.0	236.5	216.1
42.5°	424.7	474.9	529.0	556.6	530.7	448.1	348.9	281.9	241.2	215.8	199.2
45°	387.9	440.9	490.9	506.2	459.9	368.9	282.2	233.5	206.4	187.6	176.2
47.5°	351.8	404.0	449.7	449.9	387.3	299.1	238.0	202.1	178.9	164.4	156.1
50°	329.8	379.4	417.7	411.7	340.6	266.1	212.9	181.9	162.7	151.4	142.7
52.5°	305.1	353.1	386.4	369.4	301.1	234.2	190.3	164.3	148.3	138.6	130.8
55°	269.0	311.7	335.2	309.4	245.7	194.8	160.8	140.4	128.5	120.2	113.5
57.5°	233.7	268.9	283.6	253.7	202.4	161.5	136.0	120.7	108.9	102.9	99.5
60°	211.5	241.6	251.9	218.8	175.9	141.3	120.5	106.2	97.5	93.6	90.2
62.5°	189.7	214.2	218.4	188.2	153.4	123.7	105.7	93.7	88.0	84.2	81.0
65°	157.3	175.0	173.0	148.7	121.4	98.2	85.1	77.8	73.4	68.2	62.4
67.5°	129.6	140.4	133.8	115.6	92.6	76.3	67.8	62.2	56.8	51.8	50.5
70°	111.9	118.2	111.3	94.5	75.9	64.0	57.2	50.5	47.3	46.2	44.0
72.5°	95.0	97.3	89.8	75.4	61.8	53.0	46.3	42.6	40.8	39.9	38.6
75°	71.3	69.8	63.3	52.1	42.9	37.0	34.8	33.5	32.3	31.4	30.7
77.5°	50.1	47.8	42.0	34.6	29.9	27.1	25.8	25.0	24.5	24.0	23.3
80°	37.7	36.1	30.3	24.7	22.7	21.3	20.6	19.7	19.7	19.3	18.6
82.5°	27.6	25.8	20.7	18.2	17.1	16.2	15.7	15.1	14.9	15.0	14.5
85°	14.4	11.7	10.3	9.9	9.2	8.7	9.0	8.5	8.5	8.5	8.3
87.5°	5.2	4.7	5.2	5.6	6.5	7.5	8.3	9.3	10.5	10.2	10.3
90°	3.7	6.5	9.2	11.9	15.8	20.8	25.8	30.8	35.7	35.3	34.8
92.5°	20.2	22.2	24.2	26.3	27.8	29.0	30.2	31.3	32.5	32.6	32.7
95°	55.4	57.8	60.0	62.3	63.6	64.1	64.5	65.0	65.4	65.4	65.4
97.5°	99.2	101.2	103.2	105.1	106.6	107.4	108.4	109.2	110.1	110.1	110.1
100°	131.7	133.5	135.3	137.1	138.5	139.1	139.8	140.5	141.2	141.2	141.2
102.5°	165.7	167.1	168.6	170.1	171.3	172.1	173.0	173.8	174.7	174.9	175.1
105°	220.6	221.3	222.0	222.7	223.2	223.7	224.1	224.6	225.0	225.5	225.9
107.5°	277.0	277.9	278.9	279.9	280.4	280.4	280.4	280.4	280.4	280.6	280.8
110°	313.4	314.7	316.1	317.4	318.1	318.1	318.1	318.1	318.1	318.1	318.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	352.6	354.0	355.4	356.7	357.3	357.1	356.9	356.8	356.6	356.0	355.5
115°	410.5	411.8	413.2	414.5	415.1	414.5	414.1	413.6	413.2	413.0	412.7
117.5°	468.7	470.5	472.3	474.1	474.3	473.1	471.8	470.6	469.3	468.8	468.2
120°	507.2	509.0	510.8	512.6	512.6	510.8	509.0	507.2	505.3	505.3	505.3
122.5°	542.7	544.8	547.0	549.2	549.7	548.4	547.1	545.8	544.5	544.0	543.5
125°	597.3	599.4	601.5	603.5	604.2	603.5	602.8	602.1	601.5	600.8	600.1
127.5°	651.3	653.9	656.5	659.0	659.9	659.1	658.3	657.5	656.7	655.8	655.0
130°	685.2	688.1	691.2	694.1	695.3	694.9	694.4	694.0	693.5	693.1	692.6
132.5°	722.3	724.7	727.1	729.5	730.7	730.8	730.9	731.0	731.1	730.1	729.1
135°	772.7	775.2	777.7	780.2	781.6	782.1	782.5	783.0	783.5	783.3	783.0
137.5°	825.3	827.3	829.3	831.3	832.7	833.2	833.8	834.5	835.1	834.9	834.7
140°	857.2	859.2	861.2	863.2	864.8	866.1	867.2	868.3	869.4	869.4	869.4
142.5°	889.9	891.9	893.9	896.1	897.5	898.2	899.0	899.8	900.5	900.7	900.9
145°	936.4	938.1	939.7	941.3	942.7	944.1	945.4	946.8	948.2	948.4	948.7
147.5°	978.8	980.7	982.5	984.4	985.8	986.7	987.6	988.6	989.5	990.0	990.5
150°	1006.8	1008.1	1009.6	1010.9	1012.1	1013.0	1013.9	1014.8	1015.7	1016.3	1017.0
152.5°	1032.2	1033.6	1034.9	1036.3	1037.5	1038.6	1039.7	1040.8	1041.9	1042.7	1043.6
155°	1069.5	1070.3	1071.0	1071.6	1072.3	1073.0	1073.7	1074.3	1075.0	1076.1	1077.3
157.5°	1101.9	1102.3	1102.8	1103.2	1103.7	1104.1	1104.5	1104.9	1105.3	1106.8	1108.4
160°	1121.5	1122.0	1122.4	1122.9	1123.2	1123.5	1123.7	1123.9	1124.1	1125.5	1126.8
162.5°	1139.1	1139.2	1139.3	1139.4	1139.5	1139.8	1140.0	1140.2	1140.4	1142.1	1143.6
165°	1162.8	1162.6	1162.3	1162.1	1162.0	1162.0	1162.0	1162.0	1162.0	1163.6	1165.2
167.5°	1182.3	1181.6	1180.9	1180.3	1179.9	1179.9	1179.8	1179.8	1179.7	1181.3	1183.0
170°	1193.0	1192.3	1191.6	1190.9	1190.5	1190.2	1190.0	1189.8	1189.6	1191.1	1192.8
172.5°	1200.3	1199.6	1199.0	1198.3	1197.8	1197.6	1197.4	1197.2	1196.9	1198.5	1200.1
175°	1209.3	1208.7	1208.0	1207.3	1206.7	1206.3	1205.8	1205.4	1204.9	1206.5	1208.1
177.5°	1213.2	1212.6	1212.0	1211.5	1211.0	1210.7	1210.3	1210.0	1209.6	1210.7	1211.8
180°	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	683.3	685.7	686.8	686.8	688.1	687.5	687.0
5°	722.6	726.9	727.9	732.0	735.0	734.1	734.5
7.5°	761.6	768.6	775.6	778.7	779.2	781.0	781.7
10°	785.7	791.4	802.1	800.6	808.6	813.2	805.7
12.5°	808.8	816.6	824.0	826.1	830.6	832.1	829.1
15°	829.7	833.8	834.2	833.1	834.6	833.3	829.0
17.5°	810.2	803.4	789.9	783.5	778.4	770.8	767.8
20°	777.9	758.1	735.2	726.0	715.3	694.2	699.2
22.5°	708.1	685.7	662.7	635.9	623.1	603.1	601.9
25°	599.7	560.9	518.2	488.4	470.9	451.0	442.2
27.5°	466.3	417.4	382.4	364.8	348.6	332.9	332.1
30°	378.5	341.8	314.8	299.6	289.7	283.1	284.5
32.5°	319.0	293.9	275.6	263.1	255.8	250.7	250.6
35°	260.8	243.6	231.9	226.6	221.4	217.7	217.9
37.5°	223.2	212.9	206.3	200.6	197.2	195.4	194.4
40°	203.9	195.4	190.4	186.9	184.2	181.7	181.2
42.5°	188.7	181.7	176.6	173.9	171.4	169.6	169.2
45°	167.4	161.7	157.1	154.1	153.0	151.4	151.4
47.5°	149.0	143.3	139.8	137.8	135.9	134.8	134.8
50°	136.5	132.1	129.0	127.7	126.1	125.5	125.2
52.5°	125.3	122.0	119.8	119.0	118.3	117.4	117.5
55°	110.1	108.3	107.3	106.6	105.5	104.1	105.0
57.5°	97.4	95.7	93.3	91.1	90.1	89.1	89.5
60°	88.4	85.1	81.9	79.4	78.7	76.6	76.6
62.5°	77.0	72.4	68.5	67.1	66.3	65.4	65.2
65°	59.2	57.4	56.5	55.5	55.0	55.0	54.6
67.5°	49.1	48.3	47.3	47.1	46.7	46.5	46.4
70°	43.3	42.4	42.0	41.7	41.3	41.5	40.8
72.5°	37.9	37.2	37.1	36.5	36.2	36.2	35.6
75°	29.8	29.8	29.6	29.4	28.9	28.7	28.9
77.5°	22.9	23.0	22.6	22.5	22.5	22.5	22.3
80°	18.4	18.6	18.4	18.1	17.9	18.1	17.9
82.5°	14.5	14.1	14.1	14.0	14.0	13.9	13.8
85°	8.3	8.5	8.3	8.1	8.1	8.1	8.3
87.5°	10.0	9.9	9.9	9.9	10.0	10.0	9.9
90°	34.4	33.9	33.8	34.1	34.3	34.5	34.7
92.5°	32.8	32.9	32.9	33.0	33.0	33.1	33.1
95°	65.4	65.4	65.2	64.7	64.3	63.8	63.4
97.5°	110.1	110.1	110.1	110.0	110.0	109.9	109.9
100°	141.2	141.2	141.1	140.8	140.6	140.4	140.2
102.5°	175.2	175.4	175.4	175.2	174.9	174.7	174.5
105°	226.4	226.8	227.1	227.1	227.1	227.1	227.1
107.5°	281.0	281.1	280.7	279.7	278.6	277.6	276.6
110°	318.1	318.1	317.8	317.1	316.4	315.7	315.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	355.0	354.4	353.9	353.4	352.8	352.3	351.8
115°	412.5	412.3	411.8	411.2	410.5	409.8	409.1
117.5°	467.7	467.1	466.5	465.9	465.1	464.4	463.7
120°	505.3	505.3	504.9	504.2	503.6	502.9	502.2
122.5°	542.9	542.4	541.9	541.4	540.9	540.4	539.9
125°	599.4	598.7	598.2	598.0	597.8	597.5	597.3
127.5°	654.2	653.4	652.6	651.9	651.2	650.5	649.7
130°	692.2	691.7	690.9	690.0	689.1	688.2	687.3
132.5°	728.1	727.1	726.3	725.6	724.8	724.1	723.4
135°	782.8	782.5	782.1	781.4	780.7	780.1	779.4
137.5°	834.6	834.4	833.7	832.8	831.9	831.0	830.1
140°	869.4	869.4	869.0	868.1	867.2	866.3	865.4
142.5°	901.1	901.2	900.9	900.0	899.1	898.2	897.3
145°	948.9	949.1	948.8	947.9	947.0	946.0	945.1
147.5°	991.0	991.5	991.3	990.5	989.6	988.8	987.8
150°	1017.7	1018.4	1018.4	1017.7	1017.0	1016.3	1015.7
152.5°	1044.5	1045.3	1045.3	1044.5	1043.6	1042.7	1041.9
155°	1078.4	1079.5	1079.7	1079.1	1078.4	1077.7	1077.0
157.5°	1109.9	1111.5	1111.7	1110.6	1109.5	1108.4	1107.3
160°	1128.2	1129.5	1129.8	1128.9	1128.0	1127.1	1126.2
162.5°	1145.1	1146.7	1146.9	1145.8	1144.7	1143.6	1142.6
165°	1166.7	1168.3	1168.5	1167.4	1166.3	1165.2	1164.0
167.5°	1184.6	1186.1	1186.3	1185.2	1184.0	1182.8	1181.6
170°	1194.4	1196.0	1196.1	1194.7	1193.4	1191.9	1190.6
172.5°	1201.7	1203.3	1203.5	1202.0	1200.7	1199.3	1198.0
175°	1209.7	1211.2	1211.4	1210.0	1208.7	1207.3	1206.0
177.5°	1212.8	1214.0	1214.0	1212.8	1211.8	1210.7	1209.6
180°	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0

(END OF REPORT)