

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: P332259-840

Luminaire Tested: **S123RDIP-S340D1025U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332259-840
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-S340D1025U840-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 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: 4927.7 lumens
Efficiency: N/A
Efficacy: 132.1 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

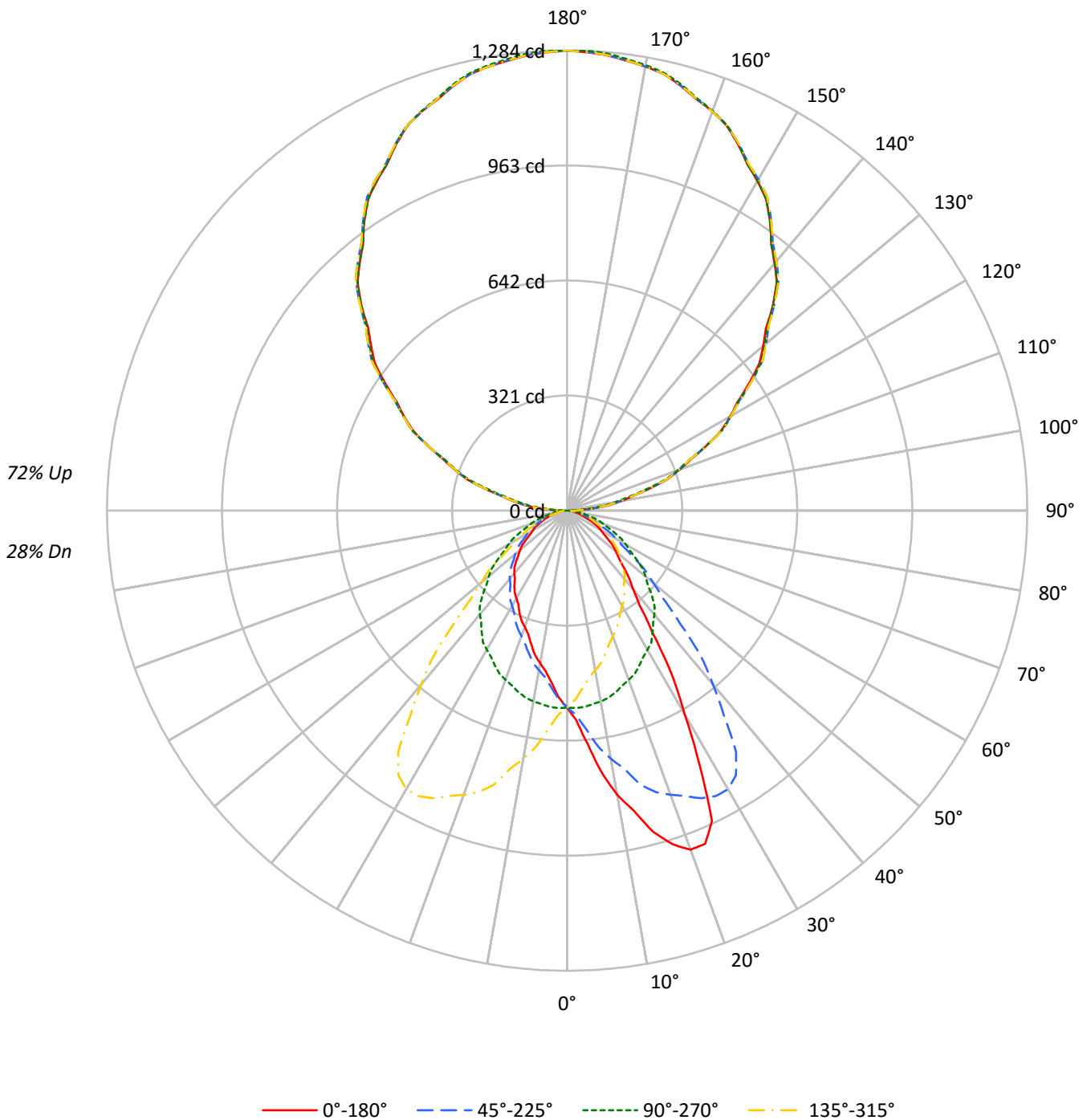
Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	80	77	74	63	61	59	47	45	44	32	31	31	24
2	85	78	72	68	76	70	65	61	55	52	49	41	39	37	29	27	26	21
3	78	69	62	57	69	62	56	51	49	45	42	37	34	32	26	24	23	18
4	71	61	54	48	63	55	49	44	44	39	36	33	30	28	23	21	20	16
5	65	54	47	41	58	49	42	38	39	34	31	30	26	24	21	19	17	14
6	60	49	41	36	54	44	37	33	35	30	27	27	24	21	19	17	15	12
7	56	44	36	31	50	40	33	29	32	27	24	24	21	19	17	15	14	11
8	51	40	32	27	46	36	30	25	29	24	21	22	19	17	16	14	12	10
9	48	36	29	24	43	33	27	22	27	22	19	20	17	15	15	13	11	9
10	45	33	26	22	40	30	24	20	24	20	17	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5916	5916	5916	5916
5°	7052	5942	5232	5942
10°	8805	5908	4726	5908
15°	10336	5846	4310	5846
20°	11535	5756	3956	5756
25°	11351	5662	3739	5662
30°	8158	5574	3515	5574
35°	5447	5460	3369	5460
40°	4013	5323	3219	5323
45°	3367	5083	3073	5083
50°	2971	4767	2869	4767
55°	2607	4406	2586	4406
60°	2321	4060	2370	4060
65°	2038	3691	2203	3691
70°	1599	3361	2014	3361
75°	1406	2936	1838	2936
80°	1227	2492	1810	2492
85°	988	2013	1927	2013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.0	1.1
10°-20°	168.9	3.4
20°-30°	265.3	5.4
30°-40°	276.8	5.6
40°-50°	236.9	4.8
50°-60°	180.5	3.7
60°-70°	115.7	2.3
70°-80°	55.7	1.1
80°-90°	18.5	0.4
90°-100°	83.6	1.7
100°-110°	250.2	5.1
110°-120°	425.6	8.6
120°-130°	559.8	11.4
130°-140°	629.2	12.8
140°-150°	618.5	12.6
150°-160°	520.7	10.6
160°-170°	346.6	7.0
170°-180°	121.4	2.5
0°-30°	488.2	9.9
0°-40°	764.9	15.5
0°-60°	1182.3	24.0
0°-90°	1372.2	27.8
90°-120°	759.4	15.4
90°-150°	2566.9	52.1
90°-180°	3555.0	72.1
0°-180°	4927.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	550	550	550	550	550	
5°	653	550	484	550	653	67
15°	928	525	387	525	928	263
25°	956	477	315	477	956	411
35°	414	416	256	416	414	272
45°	221	334	202	334	221	174
55°	139	235	138	235	139	126
65°	80	145	86	145	80	79
75°	34	71	44	71	34	36
85°	8	16	16	16	8	10
90°	30	1	30	1	30	15
95°	79	60	79	60	79	81
105°	240	227	240	227	240	255
115°	429	428	429	428	429	425
125°	620	627	620	627	620	554
135°	812	814	812	814	812	625
145°	987	987	987	987	987	616
155°	1128	1130	1128	1130	1128	519
165°	1227	1231	1227	1231	1227	346
175°	1275	1280	1275	1280	1275	121
180°	1283	1283	1283	1283	1283	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6
2.5°	585.4	586.1	583.7	583.3	580.5	579.8	579.8	575.7	573.3	570.2	568.3
5°	652.7	656.4	654.5	650.4	643.3	641.6	637.1	630.1	622.1	612.2	607.5
7.5°	736.7	741.8	739.8	733.4	725.9	719.9	707.3	695.6	679.2	664.8	652.5
10°	805.6	800.2	796.0	789.6	782.7	771.7	758.5	740.4	719.5	703.0	684.7
12.5°	857.2	856.3	850.9	844.3	834.8	824.3	808.0	786.0	761.6	737.8	716.8
15°	927.5	928.9	925.3	918.6	904.8	886.3	861.8	852.6	817.8	791.9	766.1
17.5°	976.1	975.8	975.3	965.9	952.0	938.8	916.0	891.9	860.4	823.9	789.1
20°	1007.0	1004.6	1005.1	994.5	984.2	968.9	946.7	911.7	885.9	843.7	807.7
22.5°	1006.2	1005.7	1007.5	1003.9	996.4	984.7	967.2	937.7	904.6	862.1	821.6
25°	955.7	953.8	964.8	968.0	980.0	982.1	976.8	960.7	929.4	885.6	835.5
27.5°	799.8	798.8	819.3	845.1	877.6	902.9	927.4	939.2	929.4	898.0	847.8
30°	656.4	678.5	688.9	726.1	767.5	816.9	860.2	901.3	911.5	897.8	856.7
32.5°	545.0	564.3	573.0	604.8	643.5	701.4	766.3	824.6	865.8	876.2	851.4
35°	414.5	414.8	434.5	448.7	484.4	543.9	607.0	685.1	762.8	821.6	827.7
37.5°	330.8	331.9	344.0	358.0	384.9	416.3	471.8	536.7	626.4	716.7	769.7
40°	285.6	287.7	296.7	310.5	329.8	353.7	396.9	458.1	532.9	633.4	715.5
42.5°	256.6	260.0	264.7	275.4	287.3	309.6	344.6	391.8	459.9	554.9	649.6
45°	221.2	223.1	226.6	231.6	242.4	257.8	281.3	313.2	369.6	446.1	540.9
47.5°	195.1	194.1	197.8	201.8	209.0	219.6	235.4	261.3	301.5	362.9	443.3
50°	177.4	177.1	179.8	182.8	189.7	197.4	210.4	229.8	261.9	312.7	386.4
52.5°	160.9	161.7	163.6	167.3	172.3	178.5	190.2	204.3	231.8	275.6	337.0
55°	138.9	139.6	142.1	144.2	147.7	154.1	161.4	173.2	192.0	222.6	273.2
57.5°	120.2	119.9	122.3	122.9	126.8	132.0	137.6	146.8	160.5	183.2	217.2
60°	107.8	107.0	109.2	110.8	112.9	117.1	121.9	130.8	141.7	158.3	187.5
62.5°	96.4	96.1	97.7	99.4	101.1	104.9	108.9	115.7	124.3	138.4	161.6
65°	80.0	80.7	81.4	82.1	83.0	85.4	89.2	93.9	99.8	109.7	126.3
67.5°	62.9	63.6	63.8	65.2	67.3	68.8	71.1	75.2	79.4	87.7	97.1
70°	50.8	50.6	50.8	51.5	54.1	56.7	59.8	62.8	65.4	71.3	79.3
72.5°	43.6	43.2	43.8	44.0	45.2	45.9	47.9	50.8	54.1	58.1	63.8
75°	33.8	33.8	33.8	33.8	34.8	35.2	36.0	36.7	37.9	39.8	44.0
77.5°	25.0	25.0	25.4	25.7	25.9	26.2	26.6	27.3	27.7	28.7	30.5
80°	19.8	20.0	19.8	20.0	20.0	20.5	20.7	21.4	21.6	22.8	23.5
82.5°	14.8	14.7	14.8	15.1	15.1	15.6	15.7	16.2	16.2	16.8	17.5
85°	8.0	7.6	8.0	7.8	8.3	7.8	8.0	8.5	8.5	8.7	9.7
87.5°	8.0	8.2	7.8	7.9	7.8	7.8	7.7	7.5	7.7	7.3	6.9
90°	30.2	29.8	29.4	28.9	28.5	27.8	26.9	26.0	25.0	24.2	21.3
92.5°	40.7	41.0	41.3	41.5	41.8	41.6	40.9	40.2	39.4	38.7	37.1
95°	78.7	78.7	78.7	78.7	78.7	78.2	77.3	76.3	75.5	74.6	72.8
97.5°	121.0	121.1	121.2	121.3	121.3	120.9	119.9	118.8	117.8	116.7	115.4
100°	153.2	152.8	152.3	151.9	151.5	150.9	150.2	149.6	148.9	148.1	147.0
102.5°	186.3	186.4	186.4	186.5	186.6	186.3	185.7	185.0	184.3	183.7	182.2
105°	239.9	239.4	239.0	238.5	238.1	237.9	237.9	237.9	237.9	237.9	235.9
107.5°	295.8	296.0	296.3	296.6	296.8	296.6	295.9	295.2	294.5	293.8	293.0
110°	333.7	334.2	334.6	335.0	335.5	335.3	334.4	333.5	332.5	331.6	331.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	374.0	374.1	374.2	374.3	374.4	373.9	372.7	371.7	370.6	369.5	369.5
115°	429.4	429.7	429.9	430.1	430.3	430.3	430.1	429.9	429.7	429.4	429.9
117.5°	485.6	486.4	487.0	487.6	488.2	488.6	488.6	488.6	488.7	488.7	489.3
120°	525.2	525.6	526.1	526.5	526.9	527.4	527.6	527.8	528.0	528.3	529.4
122.5°	563.1	563.7	564.3	565.0	565.6	566.2	566.8	567.3	567.9	568.6	569.2
125°	620.0	620.9	621.8	622.7	623.5	624.4	625.3	626.2	627.1	628.0	628.4
127.5°	676.6	677.6	678.6	679.7	680.8	681.9	683.2	684.4	685.6	686.9	687.4
130°	713.7	715.3	716.8	718.4	719.9	721.2	722.1	723.0	723.9	724.8	725.5
132.5°	752.5	753.7	754.9	756.1	757.3	758.4	759.5	760.5	761.6	762.7	763.2
135°	812.5	812.9	813.3	813.9	814.3	815.0	815.9	816.8	817.7	818.5	818.8
137.5°	865.6	866.4	867.2	868.1	868.9	869.8	870.8	871.7	872.6	873.5	873.0
140°	900.2	901.8	903.3	904.9	906.5	907.4	907.6	907.8	908.1	908.3	908.1
142.5°	935.6	936.9	938.1	939.3	940.5	941.2	941.5	941.7	941.9	942.1	941.7
145°	986.8	987.7	988.7	989.6	990.5	991.0	991.3	991.5	991.7	991.9	991.3
147.5°	1032.5	1033.8	1035.1	1036.5	1037.8	1038.5	1038.5	1038.5	1038.5	1038.5	1037.8
150°	1061.5	1062.8	1064.2	1065.5	1066.8	1067.5	1067.5	1067.5	1067.5	1067.5	1067.1
152.5°	1089.7	1090.9	1092.1	1093.2	1094.4	1094.8	1094.4	1094.1	1093.7	1093.4	1093.1
155°	1128.0	1129.5	1131.1	1132.8	1134.3	1134.6	1133.8	1132.9	1132.0	1131.0	1130.8
157.5°	1162.9	1164.2	1165.4	1166.7	1167.9	1168.1	1167.1	1166.2	1165.3	1164.3	1164.2
160°	1185.5	1186.4	1187.3	1188.2	1189.0	1188.9	1187.8	1186.7	1185.6	1184.5	1184.5
162.5°	1202.4	1203.9	1205.3	1206.7	1208.1	1208.3	1207.2	1206.1	1205.0	1203.9	1203.7
165°	1226.8	1228.4	1229.9	1231.5	1233.0	1233.1	1231.8	1230.5	1229.1	1227.8	1227.8
167.5°	1247.6	1249.0	1250.3	1251.7	1253.1	1253.1	1251.7	1250.3	1249.0	1247.6	1247.4
170°	1258.1	1259.6	1261.2	1262.7	1264.4	1264.4	1262.7	1261.2	1259.6	1258.1	1258.1
172.5°	1266.1	1267.7	1269.3	1270.8	1272.4	1272.4	1271.1	1269.7	1268.3	1266.9	1266.9
175°	1275.2	1276.8	1278.3	1279.9	1281.4	1281.6	1280.2	1278.9	1277.6	1276.2	1276.2
177.5°	1280.0	1281.3	1282.5	1283.8	1285.1	1285.2	1284.0	1283.0	1281.9	1280.8	1280.8
180°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6
2.5°	567.4	566.9	564.3	561.3	557.3	554.7	552.6	551.5	548.1	543.9	541.2
5°	602.6	595.5	587.9	578.8	570.3	561.6	556.2	549.9	542.1	533.4	527.3
7.5°	640.1	626.2	611.4	595.9	580.8	567.1	555.0	544.7	532.4	519.9	511.2
10°	668.9	648.6	627.7	606.3	586.8	568.5	554.3	540.5	525.6	511.3	500.4
12.5°	695.1	668.4	644.3	617.9	593.0	571.1	550.8	534.4	516.5	501.3	489.0
15°	728.2	700.8	671.8	631.7	598.5	570.8	546.0	524.6	503.0	484.2	472.2
17.5°	759.1	718.1	678.8	645.5	602.4	567.7	537.6	512.0	488.2	468.3	453.4
20°	771.9	732.2	689.6	647.0	604.7	565.8	530.8	502.5	477.9	455.2	441.6
22.5°	779.6	734.7	689.7	644.0	599.1	558.7	524.0	492.9	466.2	444.7	427.9
25°	788.6	735.0	685.6	640.5	594.5	550.8	509.6	476.7	447.8	425.0	407.1
27.5°	794.6	731.4	673.1	622.9	576.3	532.8	495.0	460.1	430.7	406.6	387.4
30°	795.7	728.6	663.5	609.2	561.9	521.8	481.8	448.5	417.4	391.7	373.9
32.5°	797.2	721.6	650.5	592.8	544.3	504.7	468.5	436.6	404.8	379.5	361.2
35°	791.0	717.8	630.8	564.4	515.9	477.6	444.9	415.5	384.3	359.7	341.1
37.5°	764.3	702.6	610.4	532.5	481.8	446.4	419.7	394.0	365.4	338.9	321.4
40°	737.4	687.5	594.5	513.1	460.2	423.7	399.7	378.8	351.0	326.3	307.5
42.5°	697.3	666.9	579.5	492.8	435.8	400.6	380.3	360.7	336.4	311.2	293.6
45°	623.7	627.7	548.7	460.4	401.8	366.6	347.5	333.9	312.3	291.5	273.4
47.5°	531.5	568.9	512.5	426.0	366.2	333.1	316.4	304.5	289.8	269.5	253.0
50°	471.3	524.6	483.5	402.8	343.8	310.8	294.4	284.7	272.0	256.0	240.2
52.5°	415.8	473.1	448.5	377.0	319.4	289.3	273.3	265.3	255.2	240.1	225.9
55°	339.0	397.2	391.5	338.1	283.1	256.0	243.8	234.8	228.0	216.7	205.4
57.5°	274.3	329.3	332.2	294.8	251.0	224.2	213.7	206.9	202.5	194.0	183.5
60°	233.4	284.0	293.9	265.6	228.0	204.5	194.1	188.6	185.2	178.3	170.4
62.5°	199.5	242.6	253.8	233.5	206.0	183.9	175.8	170.7	168.2	162.4	155.3
65°	152.7	188.4	199.2	188.0	173.6	156.0	149.4	144.9	142.8	139.6	134.3
67.5°	114.8	140.9	152.8	144.8	139.6	128.5	124.3	121.9	120.0	117.8	113.4
70°	92.2	111.5	123.7	121.7	117.4	111.5	108.5	106.8	104.9	103.0	99.3
72.5°	74.1	87.5	98.9	100.0	96.5	95.3	92.6	91.9	90.8	88.6	86.4
75°	49.2	58.4	66.3	69.4	70.8	72.0	70.8	70.6	70.4	68.5	67.3
77.5°	32.2	37.2	42.2	47.5	49.7	51.2	51.6	52.5	51.8	50.9	50.3
80°	24.7	25.9	29.4	33.8	37.4	38.8	39.8	40.2	40.0	39.8	38.8
82.5°	18.0	18.9	20.6	23.7	26.7	29.0	29.6	29.5	30.0	30.2	29.4
85°	9.7	9.9	10.4	10.8	12.4	15.0	15.8	16.3	16.7	16.7	15.2
87.5°	6.7	6.0	5.8	5.2	5.4	5.0	5.8	6.3	6.9	6.6	7.0
90°	18.4	15.5	12.5	10.0	7.8	5.5	3.2	1.0	3.2	5.5	7.8
92.5°	35.3	33.7	32.1	30.5	29.0	27.5	26.0	24.4	26.0	27.5	29.0
95°	71.0	69.2	67.5	65.7	64.2	62.6	61.0	59.5	61.0	62.6	64.2
97.5°	114.1	112.8	111.5	110.3	109.2	108.0	106.8	105.6	106.8	108.0	109.2
100°	145.9	144.8	143.7	142.5	141.1	139.8	138.5	137.1	138.5	139.8	141.1
102.5°	180.7	179.3	177.7	176.6	175.8	175.0	174.2	173.4	174.2	175.0	175.8
105°	233.9	231.9	229.8	228.6	228.1	227.7	227.2	226.8	227.2	227.7	228.1
107.5°	292.2	291.3	290.5	290.0	289.7	289.4	289.2	288.9	289.2	289.4	289.7
110°	330.7	330.3	329.8	329.4	328.9	328.5	328.1	327.6	328.1	328.5	328.9



TEST NUMBER: P332259-840

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	369.4	369.3	369.2	369.0	368.7	368.5	368.2	367.9	368.2	368.5	368.7
115°	430.3	430.8	431.2	431.1	430.4	429.8	429.1	428.4	429.1	429.8	430.4
117.5°	489.9	490.5	491.0	491.1	490.7	490.2	489.8	489.3	489.8	490.2	490.7
120°	530.5	531.6	532.7	532.6	531.3	529.9	528.6	527.3	528.6	529.9	531.3
122.5°	569.7	570.3	570.9	570.7	569.7	568.7	567.7	566.7	567.7	568.7	569.7
125°	628.9	629.3	629.9	629.7	629.0	628.3	627.7	627.0	627.7	628.3	629.0
127.5°	687.9	688.3	688.8	688.4	686.9	685.5	684.1	682.7	684.1	685.5	686.9
130°	726.1	726.8	727.5	726.9	725.1	723.4	721.5	719.7	721.5	723.4	725.1
132.5°	763.7	764.2	764.7	764.1	762.2	760.4	758.6	756.9	758.6	760.4	762.2
135°	819.0	819.2	819.4	818.9	817.5	816.2	814.9	813.5	814.9	816.2	817.5
137.5°	872.4	871.8	871.2	870.4	869.3	868.2	867.1	866.0	867.1	868.2	869.3
140°	907.8	907.6	907.4	906.7	905.5	904.4	903.3	902.2	903.3	904.4	905.5
142.5°	941.3	940.9	940.5	939.8	938.7	937.6	936.3	935.2	936.3	937.6	938.7
145°	990.6	989.9	989.3	988.7	988.3	987.7	987.3	986.8	987.3	987.7	988.3
147.5°	1037.2	1036.6	1036.0	1035.3	1034.5	1033.7	1032.9	1032.1	1032.9	1033.7	1034.5
150°	1066.6	1066.2	1065.7	1065.3	1064.8	1064.4	1064.0	1063.5	1064.0	1064.4	1064.8
152.5°	1092.8	1092.6	1092.3	1091.8	1091.2	1090.6	1089.9	1089.3	1089.9	1090.6	1091.2
155°	1130.5	1130.3	1130.1	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0
157.5°	1164.0	1163.8	1163.6	1163.7	1163.9	1164.2	1164.5	1164.7	1164.5	1164.2	1163.9
160°	1184.5	1184.5	1184.5	1184.7	1185.2	1185.6	1186.0	1186.5	1186.0	1185.6	1185.2
162.5°	1203.5	1203.3	1203.2	1203.4	1204.0	1204.6	1205.2	1205.9	1205.2	1204.6	1204.0
165°	1227.8	1227.8	1227.8	1228.2	1228.8	1229.5	1230.1	1230.8	1230.1	1229.5	1228.8
167.5°	1247.2	1247.1	1246.9	1247.2	1248.1	1249.0	1249.9	1250.8	1249.9	1249.0	1248.1
170°	1258.1	1258.1	1258.1	1258.5	1259.4	1260.3	1261.2	1262.1	1261.2	1260.3	1259.4
172.5°	1266.9	1266.9	1266.9	1267.4	1268.3	1269.2	1270.1	1270.9	1270.1	1269.2	1268.3
175°	1276.2	1276.2	1276.2	1276.7	1277.6	1278.4	1279.3	1280.2	1279.3	1278.4	1277.6
177.5°	1280.8	1280.8	1280.8	1281.2	1281.9	1282.6	1283.3	1284.0	1283.3	1282.6	1281.9
180°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6
2.5°	540.2	537.8	536.0	532.3	529.9	527.3	524.6	526.2	526.0	525.9	525.9
5°	522.1	516.6	511.7	505.3	501.4	496.4	492.7	492.2	493.1	489.9	488.0
7.5°	504.1	496.8	489.7	482.7	475.2	469.3	465.6	463.8	461.5	459.5	457.4
10°	491.5	482.8	475.9	467.3	459.3	452.2	447.8	444.6	443.0	441.4	438.3
12.5°	478.5	470.0	461.3	451.4	443.8	435.7	432.3	428.9	425.8	423.8	419.7
15°	459.5	448.5	439.3	428.9	420.4	412.4	407.8	400.9	400.0	397.6	393.3
17.5°	440.4	428.5	415.8	408.1	398.6	390.2	383.0	380.8	374.1	371.5	367.8
20°	425.4	414.3	404.7	394.6	380.7	372.9	367.3	364.3	358.8	355.5	353.1
22.5°	412.4	401.1	390.0	378.2	366.8	358.0	353.9	349.1	346.2	341.5	339.0
25°	393.8	381.6	368.2	355.5	347.3	340.7	334.1	329.8	325.6	323.5	318.8
27.5°	372.3	359.5	347.0	337.3	327.2	320.7	314.8	311.0	305.9	302.4	299.7
30°	360.4	345.4	334.6	325.9	313.0	306.8	302.4	297.6	293.9	290.1	287.5
32.5°	346.7	333.0	322.8	311.9	302.1	295.3	289.5	285.4	282.2	278.6	276.0
35°	325.2	313.7	303.1	292.3	284.9	278.1	271.2	267.7	264.7	261.4	259.0
37.5°	305.7	294.9	284.8	274.6	265.5	259.9	254.5	251.8	247.6	245.4	243.1
40°	293.7	283.1	272.3	262.4	253.0	248.7	243.8	239.7	236.0	234.3	231.8
42.5°	280.4	269.8	260.7	250.1	242.4	236.6	232.1	227.7	224.9	222.5	221.1
45°	260.9	251.6	242.6	232.0	224.7	219.7	214.6	210.6	208.0	206.3	203.8
47.5°	242.0	232.6	223.5	214.3	207.2	201.6	196.3	193.6	190.2	188.1	186.4
50°	228.2	219.7	210.2	201.7	194.6	188.9	184.7	181.2	178.1	175.5	174.3
52.5°	215.6	206.6	198.2	190.4	182.9	176.5	172.7	169.0	166.6	163.7	162.3
55°	194.8	186.1	179.0	171.3	164.0	158.5	153.9	150.6	148.2	144.9	143.1
57.5°	175.3	167.4	159.1	152.3	144.8	140.3	136.3	131.9	129.0	126.4	124.5
60°	162.1	153.2	145.8	139.6	132.9	127.0	123.5	120.0	116.9	114.3	112.7
62.5°	148.3	140.6	133.6	126.7	120.7	115.5	111.5	108.6	105.8	104.2	102.5
65°	127.2	121.2	114.1	108.5	102.8	99.1	95.7	93.2	91.3	90.1	88.7
67.5°	107.9	102.0	95.8	90.3	86.4	83.6	81.5	79.3	78.3	76.7	75.8
70°	95.3	89.2	83.7	79.5	75.7	73.6	72.2	70.6	69.7	67.8	66.9
72.5°	81.6	77.2	73.2	69.8	66.8	64.8	63.0	61.0	59.5	57.4	56.5
75°	64.2	60.2	57.2	54.8	52.9	50.4	47.8	45.6	44.9	44.2	44.0
77.5°	47.6	45.0	42.8	40.8	38.5	36.7	36.1	35.5	35.4	35.0	35.0
80°	37.4	35.0	33.4	31.1	29.7	29.7	29.7	29.2	29.4	29.4	29.4
82.5°	27.8	25.7	24.7	23.9	23.6	23.8	23.8	23.9	23.7	24.1	23.9
85°	14.3	14.5	15.0	14.8	15.0	15.0	15.6	15.2	15.6	15.0	15.6
87.5°	7.3	8.4	9.1	9.9	10.7	11.0	11.4	11.6	11.9	12.1	12.3
90°	10.0	12.5	15.5	18.4	21.3	24.2	25.0	26.0	26.9	27.8	28.5
92.5°	30.5	32.1	33.7	35.3	37.1	38.7	39.4	40.2	40.9	41.6	41.8
95°	65.7	67.5	69.2	71.0	72.8	74.6	75.5	76.3	77.3	78.2	78.7
97.5°	110.3	111.5	112.8	114.1	115.4	116.7	117.8	118.8	119.9	120.9	121.3
100°	142.5	143.7	144.8	145.9	147.0	148.1	148.9	149.6	150.2	150.9	151.5
102.5°	176.6	177.7	179.3	180.7	182.2	183.7	184.3	185.0	185.7	186.3	186.6
105°	228.6	229.8	231.9	233.9	235.9	237.9	237.9	237.9	237.9	237.9	238.1
107.5°	290.0	290.5	291.3	292.2	293.0	293.8	294.5	295.2	295.9	296.6	296.8
110°	329.4	329.8	330.3	330.7	331.2	331.6	332.5	333.5	334.4	335.3	335.5



TEST NUMBER: P332259-840

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	369.0	369.2	369.3	369.4	369.5	369.5	370.6	371.7	372.7	373.9	374.4
115°	431.1	431.2	430.8	430.3	429.9	429.4	429.7	429.9	430.1	430.3	430.3
117.5°	491.1	491.0	490.5	489.9	489.3	488.7	488.7	488.6	488.6	488.6	488.2
120°	532.6	532.7	531.6	530.5	529.4	528.3	528.0	527.8	527.6	527.4	526.9
122.5°	570.7	570.9	570.3	569.7	569.2	568.6	567.9	567.3	566.8	566.2	565.6
125°	629.7	629.9	629.3	628.9	628.4	628.0	627.1	626.2	625.3	624.4	623.5
127.5°	688.4	688.8	688.3	687.9	687.4	686.9	685.6	684.4	683.2	681.9	680.8
130°	726.9	727.5	726.8	726.1	725.5	724.8	723.9	723.0	722.1	721.2	719.9
132.5°	764.1	764.7	764.2	763.7	763.2	762.7	761.6	760.5	759.5	758.4	757.3
135°	818.9	819.4	819.2	819.0	818.8	818.5	817.7	816.8	815.9	815.0	814.3
137.5°	870.4	871.2	871.8	872.4	873.0	873.5	872.6	871.7	870.8	869.8	868.9
140°	906.7	907.4	907.6	907.8	908.1	908.3	908.1	907.8	907.6	907.4	906.5
142.5°	939.8	940.5	940.9	941.3	941.7	942.1	941.9	941.7	941.5	941.2	940.5
145°	988.7	989.3	989.9	990.6	991.3	991.9	991.7	991.5	991.3	991.0	990.5
147.5°	1035.3	1036.0	1036.6	1037.2	1037.8	1038.5	1038.5	1038.5	1038.5	1038.5	1037.8
150°	1065.3	1065.7	1066.2	1066.6	1067.1	1067.5	1067.5	1067.5	1067.5	1067.5	1066.8
152.5°	1091.8	1092.3	1092.6	1092.8	1093.1	1093.4	1093.7	1094.1	1094.4	1094.8	1094.4
155°	1130.0	1130.1	1130.3	1130.5	1130.8	1131.0	1132.0	1132.9	1133.8	1134.6	1134.3
157.5°	1163.7	1163.6	1163.8	1164.0	1164.2	1164.3	1165.3	1166.2	1167.1	1168.1	1167.9
160°	1184.7	1184.5	1184.5	1184.5	1184.5	1184.5	1185.6	1186.7	1187.8	1188.9	1189.0
162.5°	1203.4	1203.2	1203.3	1203.5	1203.7	1203.9	1205.0	1206.1	1207.2	1208.3	1208.1
165°	1228.2	1227.8	1227.8	1227.8	1227.8	1227.8	1229.1	1230.5	1231.8	1233.1	1233.0
167.5°	1247.2	1246.9	1247.1	1247.2	1247.4	1247.6	1249.0	1250.3	1251.7	1253.1	1253.1
170°	1258.5	1258.1	1258.1	1258.1	1258.1	1258.1	1259.6	1261.2	1262.7	1264.4	1264.4
172.5°	1267.4	1266.9	1266.9	1266.9	1266.9	1266.9	1268.3	1269.7	1271.1	1272.4	1272.4
175°	1276.7	1276.2	1276.2	1276.2	1276.2	1276.2	1277.6	1278.9	1280.2	1281.6	1281.4
177.5°	1281.2	1280.8	1280.8	1280.8	1280.8	1280.8	1281.9	1283.0	1284.0	1285.2	1285.1
180°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2



TEST NUMBER: P332259-840

CATALOG NUMBER: S123RDIP-S340D1025U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6
2.5°	523.6	523.4	523.6	522.9	523.6	523.4	523.6	525.9	525.9	526.0	526.2
5°	487.3	487.1	486.4	484.2	486.4	487.1	487.3	488.0	489.9	493.1	492.2
7.5°	455.4	455.1	453.1	453.1	453.1	455.1	455.4	457.4	459.5	461.5	463.8
10°	436.7	436.9	434.0	432.4	434.0	436.9	436.7	438.3	441.4	443.0	444.6
12.5°	418.4	417.4	415.1	413.2	415.1	417.4	418.4	419.7	423.8	425.8	428.9
15°	394.4	391.9	386.4	386.8	386.4	391.9	394.4	393.3	397.6	400.0	400.9
17.5°	366.0	364.3	364.2	360.8	364.2	364.3	366.0	367.8	371.5	374.1	380.8
20°	349.4	348.2	348.7	345.4	348.7	348.2	349.4	353.1	355.5	358.8	364.3
22.5°	336.4	335.2	333.3	332.2	333.3	335.2	336.4	339.0	341.5	346.2	349.1
25°	317.4	315.5	313.7	314.8	313.7	315.5	317.4	318.8	323.5	325.6	329.8
27.5°	298.4	297.0	295.1	294.9	295.1	297.0	298.4	299.7	302.4	305.9	311.0
30°	286.3	284.9	284.0	282.8	284.0	284.9	286.3	287.5	290.1	293.9	297.6
32.5°	274.1	273.8	272.2	271.9	272.2	273.8	274.1	276.0	278.6	282.2	285.4
35°	258.1	256.7	256.2	256.4	256.2	256.7	258.1	259.0	261.4	264.7	267.7
37.5°	242.9	241.1	240.1	239.3	240.1	241.1	242.9	243.1	245.4	247.6	251.8
40°	232.0	230.1	229.6	229.1	229.6	230.1	232.0	231.8	234.3	236.0	239.7
42.5°	219.7	219.0	218.7	217.8	218.7	219.0	219.7	221.1	222.5	224.9	227.7
45°	203.1	202.8	201.4	201.9	201.4	202.8	203.1	203.8	206.3	208.0	210.6
47.5°	185.4	184.4	183.4	184.1	183.4	184.4	185.4	186.4	188.1	190.2	193.6
50°	173.4	172.9	170.8	171.3	170.8	172.9	173.4	174.3	175.5	178.1	181.2
52.5°	161.4	159.6	158.8	158.4	158.8	159.6	161.4	162.3	163.7	166.6	169.0
55°	141.4	139.3	138.4	137.8	138.4	139.3	141.4	143.1	144.9	148.2	150.6
57.5°	121.8	121.3	120.5	121.0	120.5	121.3	121.8	124.5	126.4	129.0	131.9
60°	110.4	110.4	110.4	110.1	110.4	110.4	110.4	112.7	114.3	116.9	120.0
62.5°	101.5	100.9	100.8	101.1	100.8	100.9	101.5	102.5	104.2	105.8	108.6
65°	88.0	87.8	86.8	86.5	86.8	87.8	88.0	88.7	90.1	91.3	93.2
67.5°	75.2	74.4	74.1	73.8	74.1	74.4	75.2	75.8	76.7	78.3	79.3
70°	65.6	65.1	63.7	64.0	63.7	65.1	65.6	66.9	67.8	69.7	70.6
72.5°	55.3	54.8	54.5	54.2	54.5	54.8	55.3	56.5	57.4	59.5	61.0
75°	43.7	43.5	43.3	44.2	43.3	43.5	43.7	44.0	44.2	44.9	45.6
77.5°	35.0	35.0	35.2	34.8	35.2	35.0	35.0	35.0	35.0	35.4	35.5
80°	29.4	29.4	29.2	29.2	29.2	29.4	29.4	29.4	29.4	29.4	29.2
82.5°	23.5	23.7	23.9	23.5	23.9	23.7	23.5	23.9	24.1	23.7	23.9
85°	15.6	15.2	15.8	15.6	15.8	15.2	15.6	15.6	15.0	15.6	15.2
87.5°	12.7	12.4	12.5	12.8	12.5	12.4	12.7	12.3	12.1	11.9	11.6
90°	28.9	29.4	29.8	30.2	29.8	29.4	28.9	28.5	27.8	26.9	26.0
92.5°	41.5	41.3	41.0	40.7	41.0	41.3	41.5	41.8	41.6	40.9	40.2
95°	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.2	77.3	76.3
97.5°	121.3	121.2	121.1	121.0	121.1	121.2	121.3	121.3	120.9	119.9	118.8
100°	151.9	152.3	152.8	153.2	152.8	152.3	151.9	151.5	150.9	150.2	149.6
102.5°	186.5	186.4	186.4	186.3	186.4	186.4	186.5	186.6	186.3	185.7	185.0
105°	238.5	239.0	239.4	239.9	239.4	239.0	238.5	238.1	237.9	237.9	237.9
107.5°	296.6	296.3	296.0	295.8	296.0	296.3	296.6	296.8	296.6	295.9	295.2
110°	335.0	334.6	334.2	333.7	334.2	334.6	335.0	335.5	335.3	334.4	333.5



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	374.3	374.2	374.1	374.0	374.1	374.2	374.3	374.4	373.9	372.7	371.7
115°	430.1	429.9	429.7	429.4	429.7	429.9	430.1	430.3	430.3	430.1	429.9
117.5°	487.6	487.0	486.4	485.6	486.4	487.0	487.6	488.2	488.6	488.6	488.6
120°	526.5	526.1	525.6	525.2	525.6	526.1	526.5	526.9	527.4	527.6	527.8
122.5°	565.0	564.3	563.7	563.1	563.7	564.3	565.0	565.6	566.2	566.8	567.3
125°	622.7	621.8	620.9	620.0	620.9	621.8	622.7	623.5	624.4	625.3	626.2
127.5°	679.7	678.6	677.6	676.6	677.6	678.6	679.7	680.8	681.9	683.2	684.4
130°	718.4	716.8	715.3	713.7	715.3	716.8	718.4	719.9	721.2	722.1	723.0
132.5°	756.1	754.9	753.7	752.5	753.7	754.9	756.1	757.3	758.4	759.5	760.5
135°	813.9	813.3	812.9	812.5	812.9	813.3	813.9	814.3	815.0	815.9	816.8
137.5°	868.1	867.2	866.4	865.6	866.4	867.2	868.1	868.9	869.8	870.8	871.7
140°	904.9	903.3	901.8	900.2	901.8	903.3	904.9	906.5	907.4	907.6	907.8
142.5°	939.3	938.1	936.9	935.6	936.9	938.1	939.3	940.5	941.2	941.5	941.7
145°	989.6	988.7	987.7	986.8	987.7	988.7	989.6	990.5	991.0	991.3	991.5
147.5°	1036.5	1035.1	1033.8	1032.5	1033.8	1035.1	1036.5	1037.8	1038.5	1038.5	1038.5
150°	1065.5	1064.2	1062.8	1061.5	1062.8	1064.2	1065.5	1066.8	1067.5	1067.5	1067.5
152.5°	1093.2	1092.1	1090.9	1089.7	1090.9	1092.1	1093.2	1094.4	1094.8	1094.4	1094.1
155°	1132.8	1131.1	1129.5	1128.0	1129.5	1131.1	1132.8	1134.3	1134.6	1133.8	1132.9
157.5°	1166.7	1165.4	1164.2	1162.9	1164.2	1165.4	1166.7	1167.9	1168.1	1167.1	1166.2
160°	1188.2	1187.3	1186.4	1185.5	1186.4	1187.3	1188.2	1189.0	1188.9	1187.8	1186.7
162.5°	1206.7	1205.3	1203.9	1202.4	1203.9	1205.3	1206.7	1208.1	1208.3	1207.2	1206.1
165°	1231.5	1229.9	1228.4	1226.8	1228.4	1229.9	1231.5	1233.0	1233.1	1231.8	1230.5
167.5°	1251.7	1250.3	1249.0	1247.6	1249.0	1250.3	1251.7	1253.1	1253.1	1251.7	1250.3
170°	1262.7	1261.2	1259.6	1258.1	1259.6	1261.2	1262.7	1264.4	1264.4	1262.7	1261.2
172.5°	1270.8	1269.3	1267.7	1266.1	1267.7	1269.3	1270.8	1272.4	1272.4	1271.1	1269.7
175°	1279.9	1278.3	1276.8	1275.2	1276.8	1278.3	1279.9	1281.4	1281.6	1280.2	1278.9
177.5°	1283.8	1282.5	1281.3	1280.0	1281.3	1282.5	1283.8	1285.1	1285.2	1284.0	1283.0
180°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6
2.5°	524.6	527.3	529.9	532.3	536.0	537.8	540.2	541.2	543.9	548.1	551.5
5°	492.7	496.4	501.4	505.3	511.7	516.6	522.1	527.3	533.4	542.1	549.9
7.5°	465.6	469.3	475.2	482.7	489.7	496.8	504.1	511.2	519.9	532.4	544.7
10°	447.8	452.2	459.3	467.3	475.9	482.8	491.5	500.4	511.3	525.6	540.5
12.5°	432.3	435.7	443.8	451.4	461.3	470.0	478.5	489.0	501.3	516.5	534.4
15°	407.8	412.4	420.4	428.9	439.3	448.5	459.5	472.2	484.2	503.0	524.6
17.5°	383.0	390.2	398.6	408.1	415.8	428.5	440.4	453.4	468.3	488.2	512.0
20°	367.3	372.9	380.7	394.6	404.7	414.3	425.4	441.6	455.2	477.9	502.5
22.5°	353.9	358.0	366.8	378.2	390.0	401.1	412.4	427.9	444.7	466.2	492.9
25°	334.1	340.7	347.3	355.5	368.2	381.6	393.8	407.1	425.0	447.8	476.7
27.5°	314.8	320.7	327.2	337.3	347.0	359.5	372.3	387.4	406.6	430.7	460.1
30°	302.4	306.8	313.0	325.9	334.6	345.4	360.4	373.9	391.7	417.4	448.5
32.5°	289.5	295.3	302.1	311.9	322.8	333.0	346.7	361.2	379.5	404.8	436.6
35°	271.2	278.1	284.9	292.3	303.1	313.7	325.2	341.1	359.7	384.3	415.5
37.5°	254.5	259.9	265.5	274.6	284.8	294.9	305.7	321.4	338.9	365.4	394.0
40°	243.8	248.7	253.0	262.4	272.3	283.1	293.7	307.5	326.3	351.0	378.8
42.5°	232.1	236.6	242.4	250.1	260.7	269.8	280.4	293.6	311.2	336.4	360.7
45°	214.6	219.7	224.7	232.0	242.6	251.6	260.9	273.4	291.5	312.3	333.9
47.5°	196.3	201.6	207.2	214.3	223.5	232.6	242.0	253.0	269.5	289.8	304.5
50°	184.7	188.9	194.6	201.7	210.2	219.7	228.2	240.2	256.0	272.0	284.7
52.5°	172.7	176.5	182.9	190.4	198.2	206.6	215.6	225.9	240.1	255.2	265.3
55°	153.9	158.5	164.0	171.3	179.0	186.1	194.8	205.4	216.7	228.0	234.8
57.5°	136.3	140.3	144.8	152.3	159.1	167.4	175.3	183.5	194.0	202.5	206.9
60°	123.5	127.0	132.9	139.6	145.8	153.2	162.1	170.4	178.3	185.2	188.6
62.5°	111.5	115.5	120.7	126.7	133.6	140.6	148.3	155.3	162.4	168.2	170.7
65°	95.7	99.1	102.8	108.5	114.1	121.2	127.2	134.3	139.6	142.8	144.9
67.5°	81.5	83.6	86.4	90.3	95.8	102.0	107.9	113.4	117.8	120.0	121.9
70°	72.2	73.6	75.7	79.5	83.7	89.2	95.3	99.3	103.0	104.9	106.8
72.5°	63.0	64.8	66.8	69.8	73.2	77.2	81.6	86.4	88.6	90.8	91.9
75°	47.8	50.4	52.9	54.8	57.2	60.2	64.2	67.3	68.5	70.4	70.6
77.5°	36.1	36.7	38.5	40.8	42.8	45.0	47.6	50.3	50.9	51.8	52.5
80°	29.7	29.7	29.7	31.1	33.4	35.0	37.4	38.8	39.8	40.0	40.2
82.5°	23.8	23.8	23.6	23.9	24.7	25.7	27.8	29.4	30.2	30.0	29.5
85°	15.6	15.0	15.0	14.8	15.0	14.5	14.3	15.2	16.7	16.7	16.3
87.5°	11.4	11.0	10.7	9.9	9.1	8.4	7.3	7.0	6.6	6.9	6.3
90°	25.0	24.2	21.3	18.4	15.5	12.5	10.0	7.8	5.5	3.2	1.0
92.5°	39.4	38.7	37.1	35.3	33.7	32.1	30.5	29.0	27.5	26.0	24.4
95°	75.5	74.6	72.8	71.0	69.2	67.5	65.7	64.2	62.6	61.0	59.5
97.5°	117.8	116.7	115.4	114.1	112.8	111.5	110.3	109.2	108.0	106.8	105.6
100°	148.9	148.1	147.0	145.9	144.8	143.7	142.5	141.1	139.8	138.5	137.1
102.5°	184.3	183.7	182.2	180.7	179.3	177.7	176.6	175.8	175.0	174.2	173.4
105°	237.9	237.9	235.9	233.9	231.9	229.8	228.6	228.1	227.7	227.2	226.8
107.5°	294.5	293.8	293.0	292.2	291.3	290.5	290.0	289.7	289.4	289.2	288.9
110°	332.5	331.6	331.2	330.7	330.3	329.8	329.4	328.9	328.5	328.1	327.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	370.6	369.5	369.5	369.4	369.3	369.2	369.0	368.7	368.5	368.2	367.9
115°	429.7	429.4	429.9	430.3	430.8	431.2	431.1	430.4	429.8	429.1	428.4
117.5°	488.7	488.7	489.3	489.9	490.5	491.0	491.1	490.7	490.2	489.8	489.3
120°	528.0	528.3	529.4	530.5	531.6	532.7	532.6	531.3	529.9	528.6	527.3
122.5°	567.9	568.6	569.2	569.7	570.3	570.9	570.7	569.7	568.7	567.7	566.7
125°	627.1	628.0	628.4	628.9	629.3	629.9	629.7	629.0	628.3	627.7	627.0
127.5°	685.6	686.9	687.4	687.9	688.3	688.8	688.4	686.9	685.5	684.1	682.7
130°	723.9	724.8	725.5	726.1	726.8	727.5	726.9	725.1	723.4	721.5	719.7
132.5°	761.6	762.7	763.2	763.7	764.2	764.7	764.1	762.2	760.4	758.6	756.9
135°	817.7	818.5	818.8	819.0	819.2	819.4	818.9	817.5	816.2	814.9	813.5
137.5°	872.6	873.5	873.0	872.4	871.8	871.2	870.4	869.3	868.2	867.1	866.0
140°	908.1	908.3	908.1	907.8	907.6	907.4	906.7	905.5	904.4	903.3	902.2
142.5°	941.9	942.1	941.7	941.3	940.9	940.5	939.8	938.7	937.6	936.3	935.2
145°	991.7	991.9	991.3	990.6	989.9	989.3	988.7	988.3	987.7	987.3	986.8
147.5°	1038.5	1038.5	1037.8	1037.2	1036.6	1036.0	1035.3	1034.5	1033.7	1032.9	1032.1
150°	1067.5	1067.5	1067.1	1066.6	1066.2	1065.7	1065.3	1064.8	1064.4	1064.0	1063.5
152.5°	1093.7	1093.4	1093.1	1092.8	1092.6	1092.3	1091.8	1091.2	1090.6	1089.9	1089.3
155°	1132.0	1131.0	1130.8	1130.5	1130.3	1130.1	1130.0	1130.0	1130.0	1130.0	1130.0
157.5°	1165.3	1164.3	1164.2	1164.0	1163.8	1163.6	1163.7	1163.9	1164.2	1164.5	1164.7
160°	1185.6	1184.5	1184.5	1184.5	1184.5	1184.5	1184.7	1185.2	1185.6	1186.0	1186.5
162.5°	1205.0	1203.9	1203.7	1203.5	1203.3	1203.2	1203.4	1204.0	1204.6	1205.2	1205.9
165°	1229.1	1227.8	1227.8	1227.8	1227.8	1227.8	1228.2	1228.8	1229.5	1230.1	1230.8
167.5°	1249.0	1247.6	1247.4	1247.2	1247.1	1246.9	1247.2	1248.1	1249.0	1249.9	1250.8
170°	1259.6	1258.1	1258.1	1258.1	1258.1	1258.1	1258.5	1259.4	1260.3	1261.2	1262.1
172.5°	1268.3	1266.9	1266.9	1266.9	1266.9	1266.9	1267.4	1268.3	1269.2	1270.1	1270.9
175°	1277.6	1276.2	1276.2	1276.2	1276.2	1276.2	1276.7	1277.6	1278.4	1279.3	1280.2
177.5°	1281.9	1280.8	1280.8	1280.8	1280.8	1280.8	1281.2	1281.9	1282.6	1283.3	1284.0
180°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6
2.5°	552.6	554.7	557.3	561.3	564.3	566.9	567.4	568.3	570.2	573.3	575.7
5°	556.2	561.6	570.3	578.8	587.9	595.5	602.6	607.5	612.2	622.1	630.1
7.5°	555.0	567.1	580.8	595.9	611.4	626.2	640.1	652.5	664.8	679.2	695.6
10°	554.3	568.5	586.8	606.3	627.7	648.6	668.9	684.7	703.0	719.5	740.4
12.5°	550.8	571.1	593.0	617.9	644.3	668.4	695.1	716.8	737.8	761.6	786.0
15°	546.0	570.8	598.5	631.7	671.8	700.8	728.2	766.1	791.9	817.8	852.6
17.5°	537.6	567.7	602.4	645.5	678.8	718.1	759.1	789.1	823.9	860.4	891.9
20°	530.8	565.8	604.7	647.0	689.6	732.2	771.9	807.7	843.7	885.9	911.7
22.5°	524.0	558.7	599.1	644.0	689.7	734.7	779.6	821.6	862.1	904.6	937.7
25°	509.6	550.8	594.5	640.5	685.6	735.0	788.6	835.5	885.6	929.4	960.7
27.5°	495.0	532.8	576.3	622.9	673.1	731.4	794.6	847.8	898.0	929.4	939.2
30°	481.8	521.8	561.9	609.2	663.5	728.6	795.7	856.7	897.8	911.5	901.3
32.5°	468.5	504.7	544.3	592.8	650.5	721.6	797.2	851.4	876.2	865.8	824.6
35°	444.9	477.6	515.9	564.4	630.8	717.8	791.0	827.7	821.6	762.8	685.1
37.5°	419.7	446.4	481.8	532.5	610.4	702.6	764.3	769.7	716.7	626.4	536.7
40°	399.7	423.7	460.2	513.1	594.5	687.5	737.4	715.5	633.4	532.9	458.1
42.5°	380.3	400.6	435.8	492.8	579.5	666.9	697.3	649.6	554.9	459.9	391.8
45°	347.5	366.6	401.8	460.4	548.7	627.7	623.7	540.9	446.1	369.6	313.2
47.5°	316.4	333.1	366.2	426.0	512.5	568.9	531.5	443.3	362.9	301.5	261.3
50°	294.4	310.8	343.8	402.8	483.5	524.6	471.3	386.4	312.7	261.9	229.8
52.5°	273.3	289.3	319.4	377.0	448.5	473.1	415.8	337.0	275.6	231.8	204.3
55°	243.8	256.0	283.1	338.1	391.5	397.2	339.0	273.2	222.6	192.0	173.2
57.5°	213.7	224.2	251.0	294.8	332.2	329.3	274.3	217.2	183.2	160.5	146.8
60°	194.1	204.5	228.0	265.6	293.9	284.0	233.4	187.5	158.3	141.7	130.8
62.5°	175.8	183.9	206.0	233.5	253.8	242.6	199.5	161.6	138.4	124.3	115.7
65°	149.4	156.0	173.6	188.0	199.2	188.4	152.7	126.3	109.7	99.8	93.9
67.5°	124.3	128.5	139.6	144.8	152.8	140.9	114.8	97.1	87.7	79.4	75.2
70°	108.5	111.5	117.4	121.7	123.7	111.5	92.2	79.3	71.3	65.4	62.8
72.5°	92.6	95.3	96.5	100.0	98.9	87.5	74.1	63.8	58.1	54.1	50.8
75°	70.8	72.0	70.8	69.4	66.3	58.4	49.2	44.0	39.8	37.9	36.7
77.5°	51.6	51.2	49.7	47.5	42.2	37.2	32.2	30.5	28.7	27.7	27.3
80°	39.8	38.8	37.4	33.8	29.4	25.9	24.7	23.5	22.8	21.6	21.4
82.5°	29.6	29.0	26.7	23.7	20.6	18.9	18.0	17.5	16.8	16.2	16.2
85°	15.8	15.0	12.4	10.8	10.4	9.9	9.7	9.7	8.7	8.5	8.5
87.5°	5.8	5.0	5.4	5.2	5.8	6.0	6.7	6.9	7.3	7.7	7.5
90°	3.2	5.5	7.8	10.0	12.5	15.5	18.4	21.3	24.2	25.0	26.0
92.5°	26.0	27.5	29.0	30.5	32.1	33.7	35.3	37.1	38.7	39.4	40.2
95°	61.0	62.6	64.2	65.7	67.5	69.2	71.0	72.8	74.6	75.5	76.3
97.5°	106.8	108.0	109.2	110.3	111.5	112.8	114.1	115.4	116.7	117.8	118.8
100°	138.5	139.8	141.1	142.5	143.7	144.8	145.9	147.0	148.1	148.9	149.6
102.5°	174.2	175.0	175.8	176.6	177.7	179.3	180.7	182.2	183.7	184.3	185.0
105°	227.2	227.7	228.1	228.6	229.8	231.9	233.9	235.9	237.9	237.9	237.9
107.5°	289.2	289.4	289.7	290.0	290.5	291.3	292.2	293.0	293.8	294.5	295.2
110°	328.1	328.5	328.9	329.4	329.8	330.3	330.7	331.2	331.6	332.5	333.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	368.2	368.5	368.7	369.0	369.2	369.3	369.4	369.5	369.5	370.6	371.7
115°	429.1	429.8	430.4	431.1	431.2	430.8	430.3	429.9	429.4	429.7	429.9
117.5°	489.8	490.2	490.7	491.1	491.0	490.5	489.9	489.3	488.7	488.7	488.6
120°	528.6	529.9	531.3	532.6	532.7	531.6	530.5	529.4	528.3	528.0	527.8
122.5°	567.7	568.7	569.7	570.7	570.9	570.3	569.7	569.2	568.6	567.9	567.3
125°	627.7	628.3	629.0	629.7	629.9	629.3	628.9	628.4	628.0	627.1	626.2
127.5°	684.1	685.5	686.9	688.4	688.8	688.3	687.9	687.4	686.9	685.6	684.4
130°	721.5	723.4	725.1	726.9	727.5	726.8	726.1	725.5	724.8	723.9	723.0
132.5°	758.6	760.4	762.2	764.1	764.7	764.2	763.7	763.2	762.7	761.6	760.5
135°	814.9	816.2	817.5	818.9	819.4	819.2	819.0	818.8	818.5	817.7	816.8
137.5°	867.1	868.2	869.3	870.4	871.2	871.8	872.4	873.0	873.5	872.6	871.7
140°	903.3	904.4	905.5	906.7	907.4	907.6	907.8	908.1	908.3	908.1	907.8
142.5°	936.3	937.6	938.7	939.8	940.5	940.9	941.3	941.7	942.1	941.9	941.7
145°	987.3	987.7	988.3	988.7	989.3	989.9	990.6	991.3	991.9	991.7	991.5
147.5°	1032.9	1033.7	1034.5	1035.3	1036.0	1036.6	1037.2	1037.8	1038.5	1038.5	1038.5
150°	1064.0	1064.4	1064.8	1065.3	1065.7	1066.2	1066.6	1067.1	1067.5	1067.5	1067.5
152.5°	1089.9	1090.6	1091.2	1091.8	1092.3	1092.6	1092.8	1093.1	1093.4	1093.7	1094.1
155°	1130.0	1130.0	1130.0	1130.0	1130.1	1130.3	1130.5	1130.8	1131.0	1132.0	1132.9
157.5°	1164.5	1164.2	1163.9	1163.7	1163.6	1163.8	1164.0	1164.2	1164.3	1165.3	1166.2
160°	1186.0	1185.6	1185.2	1184.7	1184.5	1184.5	1184.5	1184.5	1184.5	1185.6	1186.7
162.5°	1205.2	1204.6	1204.0	1203.4	1203.2	1203.3	1203.5	1203.7	1203.9	1205.0	1206.1
165°	1230.1	1229.5	1228.8	1228.2	1227.8	1227.8	1227.8	1227.8	1227.8	1229.1	1230.5
167.5°	1249.9	1249.0	1248.1	1247.2	1246.9	1247.1	1247.2	1247.4	1247.6	1249.0	1250.3
170°	1261.2	1260.3	1259.4	1258.5	1258.1	1258.1	1258.1	1258.1	1258.1	1259.6	1261.2
172.5°	1270.1	1269.2	1268.3	1267.4	1266.9	1266.9	1266.9	1266.9	1266.9	1268.3	1269.7
175°	1279.3	1278.4	1277.6	1276.7	1276.2	1276.2	1276.2	1276.2	1276.2	1277.6	1278.9
177.5°	1283.3	1282.6	1281.9	1281.2	1280.8	1280.8	1280.8	1280.8	1280.8	1281.9	1283.0
180°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	549.6	549.6	549.6	549.6	549.6	549.6	549.6
2.5°	579.8	579.8	580.5	583.3	583.7	586.1	585.4
5°	637.1	641.6	643.3	650.4	654.5	656.4	652.7
7.5°	707.3	719.9	725.9	733.4	739.8	741.8	736.7
10°	758.5	771.7	782.7	789.6	796.0	800.2	805.6
12.5°	808.0	824.3	834.8	844.3	850.9	856.3	857.2
15°	861.8	886.3	904.8	918.6	925.3	928.9	927.5
17.5°	916.0	938.8	952.0	965.9	975.3	975.8	976.1
20°	946.7	968.9	984.2	994.5	1005.1	1004.6	1007.0
22.5°	967.2	984.7	996.4	1003.9	1007.5	1005.7	1006.2
25°	976.8	982.1	980.0	968.0	964.8	953.8	955.7
27.5°	927.4	902.9	877.6	845.1	819.3	798.8	799.8
30°	860.2	816.9	767.5	726.1	688.9	678.5	656.4
32.5°	766.3	701.4	643.5	604.8	573.0	564.3	545.0
35°	607.0	543.9	484.4	448.7	434.5	414.8	414.5
37.5°	471.8	416.3	384.9	358.0	344.0	331.9	330.8
40°	396.9	353.7	329.8	310.5	296.7	287.7	285.6
42.5°	344.6	309.6	287.3	275.4	264.7	260.0	256.6
45°	281.3	257.8	242.4	231.6	226.6	223.1	221.2
47.5°	235.4	219.6	209.0	201.8	197.8	194.1	195.1
50°	210.4	197.4	189.7	182.8	179.8	177.1	177.4
52.5°	190.2	178.5	172.3	167.3	163.6	161.7	160.9
55°	161.4	154.1	147.7	144.2	142.1	139.6	138.9
57.5°	137.6	132.0	126.8	122.9	122.3	119.9	120.2
60°	121.9	117.1	112.9	110.8	109.2	107.0	107.8
62.5°	108.9	104.9	101.1	99.4	97.7	96.1	96.4
65°	89.2	85.4	83.0	82.1	81.4	80.7	80.0
67.5°	71.1	68.8	67.3	65.2	63.8	63.6	62.9
70°	59.8	56.7	54.1	51.5	50.8	50.6	50.8
72.5°	47.9	45.9	45.2	44.0	43.8	43.2	43.6
75°	36.0	35.2	34.8	33.8	33.8	33.8	33.8
77.5°	26.6	26.2	25.9	25.7	25.4	25.0	25.0
80°	20.7	20.5	20.0	20.0	19.8	20.0	19.8
82.5°	15.7	15.6	15.1	15.1	14.8	14.7	14.8
85°	8.0	7.8	8.3	7.8	8.0	7.6	8.0
87.5°	7.7	7.8	7.8	7.9	7.8	8.2	8.0
90°	26.9	27.8	28.5	28.9	29.4	29.8	30.2
92.5°	40.9	41.6	41.8	41.5	41.3	41.0	40.7
95°	77.3	78.2	78.7	78.7	78.7	78.7	78.7
97.5°	119.9	120.9	121.3	121.3	121.2	121.1	121.0
100°	150.2	150.9	151.5	151.9	152.3	152.8	153.2
102.5°	185.7	186.3	186.6	186.5	186.4	186.4	186.3
105°	237.9	237.9	238.1	238.5	239.0	239.4	239.9
107.5°	295.9	296.6	296.8	296.6	296.3	296.0	295.8
110°	334.4	335.3	335.5	335.0	334.6	334.2	333.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	372.7	373.9	374.4	374.3	374.2	374.1	374.0
115°	430.1	430.3	430.3	430.1	429.9	429.7	429.4
117.5°	488.6	488.6	488.2	487.6	487.0	486.4	485.6
120°	527.6	527.4	526.9	526.5	526.1	525.6	525.2
122.5°	566.8	566.2	565.6	565.0	564.3	563.7	563.1
125°	625.3	624.4	623.5	622.7	621.8	620.9	620.0
127.5°	683.2	681.9	680.8	679.7	678.6	677.6	676.6
130°	722.1	721.2	719.9	718.4	716.8	715.3	713.7
132.5°	759.5	758.4	757.3	756.1	754.9	753.7	752.5
135°	815.9	815.0	814.3	813.9	813.3	812.9	812.5
137.5°	870.8	869.8	868.9	868.1	867.2	866.4	865.6
140°	907.6	907.4	906.5	904.9	903.3	901.8	900.2
142.5°	941.5	941.2	940.5	939.3	938.1	936.9	935.6
145°	991.3	991.0	990.5	989.6	988.7	987.7	986.8
147.5°	1038.5	1038.5	1037.8	1036.5	1035.1	1033.8	1032.5
150°	1067.5	1067.5	1066.8	1065.5	1064.2	1062.8	1061.5
152.5°	1094.4	1094.8	1094.4	1093.2	1092.1	1090.9	1089.7
155°	1133.8	1134.6	1134.3	1132.8	1131.1	1129.5	1128.0
157.5°	1167.1	1168.1	1167.9	1166.7	1165.4	1164.2	1162.9
160°	1187.8	1188.9	1189.0	1188.2	1187.3	1186.4	1185.5
162.5°	1207.2	1208.3	1208.1	1206.7	1205.3	1203.9	1202.4
165°	1231.8	1233.1	1233.0	1231.5	1229.9	1228.4	1226.8
167.5°	1251.7	1253.1	1253.1	1251.7	1250.3	1249.0	1247.6
170°	1262.7	1264.4	1264.4	1262.7	1261.2	1259.6	1258.1
172.5°	1271.1	1272.4	1272.4	1270.8	1269.3	1267.7	1266.1
175°	1280.2	1281.6	1281.4	1279.9	1278.3	1276.8	1275.2
177.5°	1284.0	1285.2	1285.1	1283.8	1282.5	1281.3	1280.0
180°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2

(END OF REPORT)