

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: P332419-935

Luminaire Tested: **S123RDIW-S560D1030U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332419-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S560D1030U935-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1030 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4998.0 lumens
Efficiency: N/A
Efficacy: 110.6 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

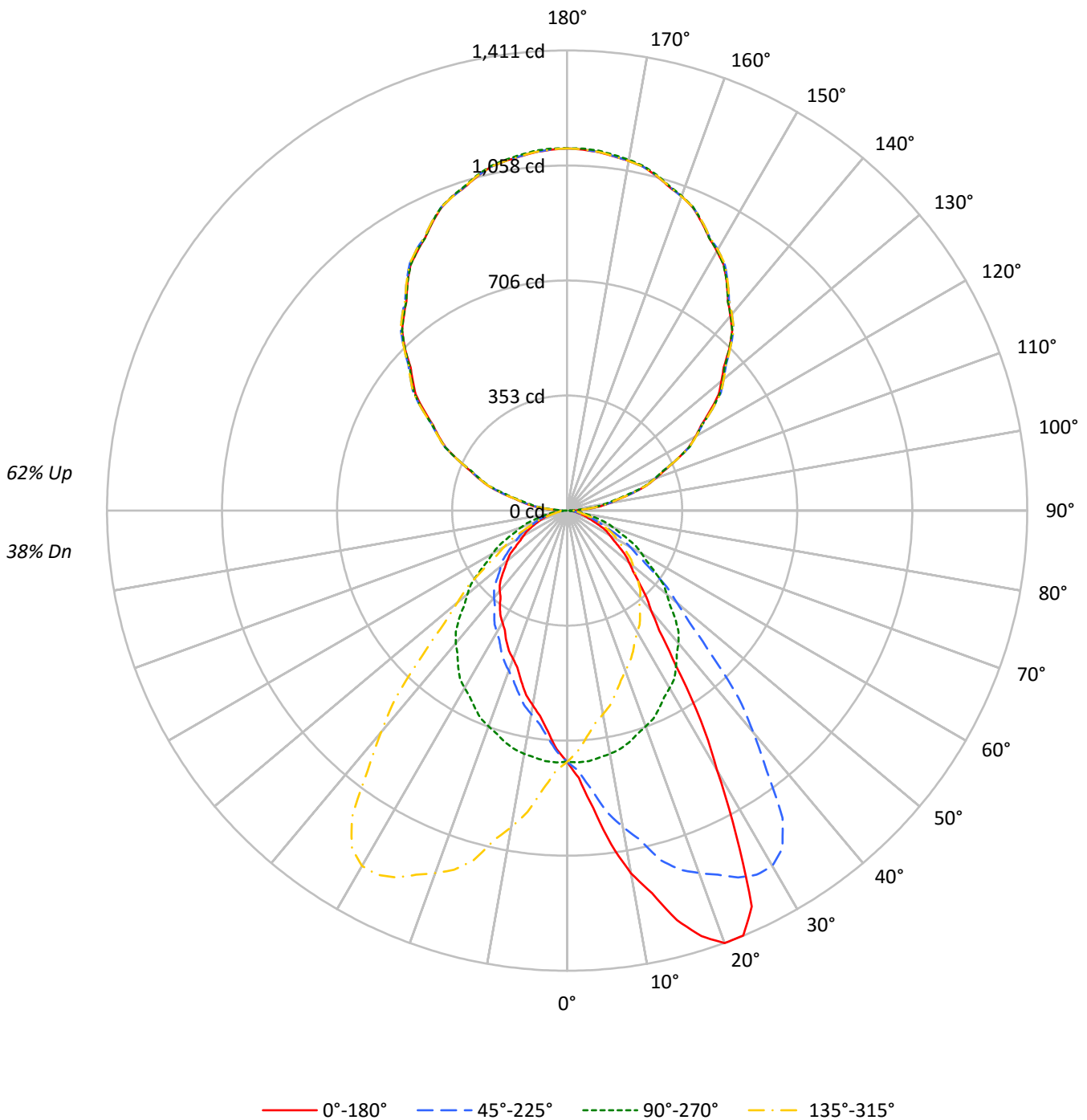
Input Watts (W): 45.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	38
1	96	92	88	85	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	75	70	79	73	68	64	60	57	54	48	45	43	37	35	34	29
3	80	71	64	59	72	65	59	54	53	49	46	43	40	37	33	31	29	25
4	73	63	56	50	66	58	51	46	48	43	39	38	35	32	30	27	26	22
5	67	56	49	43	61	52	45	40	43	38	34	34	31	28	27	24	22	19
6	62	51	43	37	56	46	40	35	39	34	30	31	28	25	24	22	20	17
7	58	46	38	33	52	42	35	31	35	30	26	29	25	22	22	20	18	15
8	53	42	34	29	49	38	32	27	32	27	23	26	22	20	21	18	16	14
9	50	38	31	26	45	35	29	24	29	24	21	24	20	18	19	16	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°	8291	8291	8291	8291
5°	9884	8327	7333	8327
10°	12342	8279	6625	8279
15°	14487	8195	6042	8195
20°	16167	8069	5545	8069
25°	15909	7935	5241	7935
30°	11436	7812	4927	7812
35°	7636	7653	4724	7653
40°	5626	7461	4513	7461
45°	4719	7124	4306	7124
50°	4165	6683	4019	6683
55°	3652	6178	3626	6178
60°	3251	5694	3324	5694
65°	2855	5173	3092	5173
70°	2241	4711	2823	4711
75°	1975	4113	2578	4113
80°	1717	3496	2535	3496
85°	1383	2803	2692	2803



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.8	1.5
10°-20°	236.7	4.7
20°-30°	371.8	7.4
30°-40°	387.9	7.8
40°-50°	332.0	6.6
50°-60°	253.0	5.1
60°-70°	162.2	3.2
70°-80°	78.0	1.6
80°-90°	23.9	0.5
90°-100°	72.4	1.4
100°-110°	216.5	4.3
110°-120°	368.3	7.4
120°-130°	484.4	9.7
130°-140°	544.4	10.9
140°-150°	535.2	10.7
150°-160°	450.5	9.0
160°-170°	299.9	6.0
170°-180°	105.0	2.1
0°-30°	684.3	13.7
0°-40°	1072.2	21.5
0°-60°	1657.2	33.2
0°-90°	1921.4	38.4
90°-120°	657.1	13.1
90°-150°	2221.1	44.4
90°-180°	3077.0	61.6
0°-180°	4998.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	770	770	770	770	770	
5°	915	771	679	771	915	94
15°	1300	735	542	735	1300	369
25°	1340	668	441	668	1340	576
35°	581	582	360	582	581	381
45°	310	468	283	468	310	244
55°	195	329	193	329	195	176
65°	112	203	121	203	112	110
75°	48	99	62	99	48	51
85°	11	23	22	23	11	14
90°	26	1	26	1	26	13
95°	68	52	68	52	68	70
105°	208	196	208	196	208	220
115°	372	371	372	371	372	368
125°	536	543	536	543	536	480
135°	703	704	703	704	703	541
145°	854	854	854	854	854	533
155°	976	978	976	978	976	449
165°	1062	1065	1062	1065	1062	299
175°	1104	1108	1104	1108	1104	105
180°	1110	1110	1110	1110	1110	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	820.4	821.6	818.1	817.6	813.6	812.6	812.6	807.0	803.6	799.1	796.5
5°	914.8	920.1	917.5	911.5	901.6	899.3	893.0	883.1	871.9	858.1	851.5
7.5°	1032.6	1039.8	1037.0	1027.9	1017.5	1009.1	991.4	975.0	952.0	931.9	914.6
10°	1129.2	1121.5	1115.7	1106.7	1097.2	1081.7	1063.2	1037.8	1008.5	985.4	959.7
12.5°	1201.4	1200.2	1192.7	1183.5	1170.0	1155.3	1132.6	1101.6	1067.6	1034.1	1004.8
15°	1300.0	1302.0	1297.0	1287.5	1268.3	1242.3	1208.0	1195.2	1146.3	1110.0	1073.8
17.5°	1368.2	1367.8	1367.1	1353.8	1334.4	1315.8	1284.0	1250.2	1206.0	1154.9	1106.0
20°	1411.4	1408.2	1408.9	1394.0	1379.5	1358.1	1327.1	1277.9	1241.6	1182.6	1132.1
22.5°	1410.4	1409.7	1412.2	1407.1	1396.6	1380.2	1355.8	1314.3	1268.0	1208.4	1151.7
25°	1339.5	1337.0	1352.5	1356.7	1373.6	1376.5	1369.2	1346.5	1302.6	1241.3	1171.0
27.5°	1121.1	1119.6	1148.4	1184.4	1230.1	1265.6	1299.9	1316.4	1302.6	1258.7	1188.4
30°	920.1	951.1	965.6	1017.7	1075.7	1145.0	1205.7	1263.3	1277.6	1258.4	1200.8
32.5°	763.9	790.9	803.1	847.8	901.9	983.0	1074.0	1155.7	1213.5	1228.1	1193.3
35°	581.1	581.4	609.1	628.9	679.0	762.4	850.8	960.3	1069.1	1151.6	1160.2
37.5°	463.6	465.3	482.1	501.8	539.4	583.5	661.3	752.3	878.0	1004.6	1078.8
40°	400.4	403.3	415.9	435.3	462.4	495.7	556.4	642.0	746.9	887.8	1002.9
42.5°	359.7	364.5	371.0	386.0	402.7	433.9	483.0	549.2	644.5	777.7	910.5
45°	310.0	312.6	317.5	324.5	339.7	361.4	394.4	438.9	518.1	625.3	758.2
47.5°	273.5	272.1	277.2	282.9	293.0	307.8	329.9	366.3	422.8	508.7	621.5
50°	248.7	248.3	251.9	256.2	265.8	276.7	294.8	322.2	367.0	438.2	541.5
52.5°	225.4	226.7	229.3	234.6	241.5	250.3	266.6	286.3	324.9	386.3	472.3
55°	194.6	195.5	199.1	202.2	207.1	216.0	226.3	242.7	269.1	311.9	382.9
57.5°	168.4	168.0	171.5	172.2	177.8	185.0	193.0	205.8	224.9	256.8	304.5
60°	151.0	150.1	153.0	155.3	158.3	164.2	170.8	183.4	198.5	222.0	262.9
62.5°	135.2	134.7	136.9	139.2	141.6	147.1	152.7	162.2	174.3	194.0	226.4
65°	112.1	113.1	114.1	115.1	116.4	119.7	125.0	131.6	139.8	153.7	177.1
67.5°	88.1	89.1	89.5	91.4	94.3	96.3	99.6	105.5	111.2	122.9	136.2
70°	71.2	70.9	71.2	72.2	75.9	79.5	83.8	88.1	91.7	100.0	111.2
72.5°	61.2	60.6	61.5	61.6	63.5	64.4	67.2	71.2	75.9	81.5	89.5
75°	47.5	47.5	47.5	47.5	48.8	49.5	50.5	51.5	53.1	55.7	61.6
77.5°	35.1	35.1	35.6	35.9	36.2	36.6	37.2	38.2	38.7	40.2	42.7
80°	27.7	28.1	27.7	28.1	28.1	28.7	29.0	30.0	30.3	32.0	33.0
82.5°	20.8	20.7	20.8	21.2	21.2	21.9	21.9	22.6	22.7	23.5	24.5
85°	11.2	10.6	11.2	10.8	11.5	10.8	11.2	11.9	11.9	12.2	13.5
87.5°	7.8	8.4	7.7	7.9	7.8	8.0	7.8	7.7	8.0	7.6	7.4
90°	26.2	25.7	25.4	25.0	24.6	24.0	23.2	22.5	21.7	20.9	18.4
92.5°	35.2	35.5	35.7	35.9	36.2	36.0	35.4	34.7	34.1	33.5	32.0
95°	68.0	68.0	68.0	68.0	68.0	67.7	66.9	66.1	65.3	64.6	63.0
97.5°	104.7	104.8	104.9	104.9	105.0	104.6	103.7	102.8	101.9	101.0	99.9
100°	132.6	132.2	131.8	131.4	131.0	130.5	130.0	129.4	128.8	128.2	127.3
102.5°	161.2	161.3	161.4	161.4	161.5	161.3	160.7	160.1	159.5	158.9	157.6
105°	207.6	207.2	206.8	206.5	206.0	205.9	205.9	205.9	205.9	205.9	204.1
107.5°	255.9	256.1	256.4	256.7	256.8	256.7	256.1	255.5	254.8	254.2	253.5
110°	288.7	289.1	289.5	289.9	290.2	290.1	289.3	288.5	287.7	287.0	286.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	323.6	323.7	323.7	323.8	323.9	323.5	322.5	321.7	320.7	319.8	319.7
115°	371.6	371.8	372.0	372.2	372.4	372.4	372.2	372.0	371.8	371.6	372.0
117.5°	420.3	420.8	421.4	421.9	422.4	422.8	422.8	422.8	422.8	422.9	423.4
120°	454.4	454.9	455.2	455.6	456.0	456.3	456.5	456.7	456.8	457.1	458.1
122.5°	487.2	487.8	488.4	488.9	489.4	490.0	490.4	490.9	491.5	492.0	492.5
125°	536.5	537.3	538.0	538.8	539.6	540.4	541.1	541.9	542.7	543.5	543.8
127.5°	585.5	586.3	587.3	588.1	589.0	590.0	591.2	592.2	593.3	594.3	594.8
130°	617.6	619.0	620.3	621.6	623.0	624.1	624.8	625.6	626.4	627.2	627.8
132.5°	651.1	652.1	653.2	654.2	655.3	656.3	657.2	658.1	659.0	660.0	660.4
135°	703.1	703.4	703.9	704.2	704.6	705.2	705.9	706.7	707.5	708.3	708.5
137.5°	749.0	749.7	750.4	751.1	751.9	752.7	753.5	754.3	755.1	756.0	755.4
140°	778.9	780.3	781.7	783.0	784.4	785.1	785.3	785.6	785.7	785.9	785.7
142.5°	809.7	810.7	811.8	812.8	813.8	814.5	814.7	814.9	815.0	815.3	814.9
145°	853.9	854.7	855.5	856.3	857.0	857.6	857.7	858.0	858.2	858.3	857.7
147.5°	893.4	894.6	895.7	896.9	898.0	898.6	898.6	898.6	898.6	898.6	898.1
150°	918.5	919.7	920.8	922.0	923.2	923.8	923.8	923.8	923.8	923.8	923.3
152.5°	943.0	943.9	944.9	946.0	947.0	947.4	947.0	946.7	946.4	946.1	945.9
155°	976.1	977.5	978.8	980.2	981.5	981.8	981.0	980.2	979.5	978.7	978.5
157.5°	1006.3	1007.4	1008.5	1009.5	1010.6	1010.7	1010.0	1009.1	1008.3	1007.5	1007.4
160°	1025.8	1026.6	1027.3	1028.1	1028.9	1028.8	1027.9	1026.9	1025.9	1024.9	1024.9
162.5°	1040.4	1041.7	1042.9	1044.2	1045.4	1045.6	1044.6	1043.6	1042.7	1041.7	1041.6
165°	1061.6	1062.9	1064.3	1065.7	1067.0	1067.1	1065.9	1064.8	1063.6	1062.5	1062.5
167.5°	1079.5	1080.7	1081.9	1083.1	1084.3	1084.3	1083.1	1081.9	1080.7	1079.5	1079.4
170°	1088.6	1089.9	1091.3	1092.7	1094.1	1094.1	1092.7	1091.3	1089.9	1088.6	1088.6
172.5°	1095.6	1096.9	1098.3	1099.7	1101.0	1101.1	1099.9	1098.7	1097.5	1096.3	1096.3
175°	1103.5	1104.8	1106.1	1107.5	1108.9	1109.0	1107.8	1106.6	1105.5	1104.3	1104.3
177.5°	1107.7	1108.7	1109.8	1110.9	1112.0	1112.1	1111.1	1110.2	1109.2	1108.4	1108.4
180°	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	795.4	794.6	790.9	786.7	781.2	777.5	774.6	773.0	768.3	762.4	758.5
5°	844.6	834.7	824.1	811.2	799.4	787.2	779.6	770.7	759.8	747.6	739.0
7.5°	897.2	877.8	856.9	835.3	814.0	794.9	778.0	763.5	746.2	728.8	716.4
10°	937.5	909.2	879.9	849.8	822.4	796.8	777.0	757.5	736.8	716.6	701.5
12.5°	974.2	936.9	903.1	866.2	831.2	800.5	772.0	749.1	724.1	702.7	685.4
15°	1020.6	982.4	941.5	885.5	839.0	800.0	765.4	735.4	705.1	678.7	661.9
17.5°	1064.0	1006.5	951.6	904.7	844.4	795.7	753.5	717.6	684.3	656.3	635.6
20°	1082.0	1026.3	966.6	906.9	847.6	793.2	744.0	704.4	669.8	638.1	619.0
22.5°	1092.8	1029.7	966.8	902.7	839.6	783.1	734.5	691.0	653.4	623.4	599.8
25°	1105.4	1030.2	961.0	897.7	833.4	772.0	714.3	668.1	627.6	595.6	570.5
27.5°	1113.7	1025.3	943.4	873.1	807.8	746.7	693.9	644.9	603.7	569.9	543.0
30°	1115.3	1021.3	930.0	853.8	787.5	731.4	675.4	628.5	585.0	549.1	524.0
32.5°	1117.4	1011.6	911.8	830.9	763.0	707.5	656.7	611.9	567.3	531.9	506.4
35°	1108.7	1006.2	884.2	791.2	723.2	669.4	623.6	582.4	538.6	504.2	478.2
37.5°	1071.3	984.7	855.5	746.4	675.4	625.6	588.2	552.3	512.1	475.1	450.6
40°	1033.5	963.6	833.4	719.3	645.1	593.9	560.3	531.0	492.1	457.4	431.0
42.5°	977.3	934.9	812.3	690.8	610.7	561.5	533.1	505.6	471.5	436.3	411.5
45°	874.3	879.9	769.0	645.4	563.3	513.8	487.1	468.0	437.6	408.6	383.2
47.5°	744.9	797.4	718.3	597.0	513.2	466.7	443.4	426.7	406.3	377.8	354.6
50°	660.6	735.4	677.7	564.6	481.8	435.7	412.6	399.1	381.3	358.8	336.7
52.5°	582.7	663.1	628.6	528.4	447.8	405.5	383.0	371.9	357.7	336.7	316.7
55°	475.2	556.6	548.7	473.9	396.7	358.8	341.6	329.2	319.5	303.8	287.9
57.5°	384.4	461.6	465.7	413.2	351.7	314.3	299.5	290.1	283.8	271.9	257.3
60°	327.2	398.0	411.9	372.3	319.5	286.5	272.1	264.5	259.5	249.9	238.8
62.5°	279.7	340.0	355.7	327.2	288.7	257.8	246.5	239.2	235.8	227.6	217.7
65°	214.0	264.2	279.3	263.5	243.4	218.6	209.4	203.1	200.2	195.5	188.3
67.5°	160.9	197.5	214.1	202.9	195.7	180.0	174.2	170.8	168.2	165.1	158.9
70°	129.2	156.4	173.5	170.5	164.5	156.4	152.1	149.7	147.1	144.5	139.1
72.5°	103.9	122.5	138.6	140.2	135.3	133.6	129.8	128.9	127.3	124.2	121.2
75°	69.0	81.8	93.0	97.3	99.3	100.9	99.3	98.9	98.6	96.0	94.3
77.5°	45.2	52.1	59.2	66.5	69.6	71.8	72.3	73.5	72.7	71.3	70.5
80°	34.6	36.2	41.2	47.5	52.4	54.4	55.7	56.4	56.1	55.7	54.4
82.5°	25.1	26.5	28.8	33.2	37.4	40.7	41.5	41.3	42.1	42.3	41.2
85°	13.5	13.9	14.6	15.2	17.5	21.1	22.1	22.7	23.4	23.4	21.4
87.5°	7.4	6.6	6.6	6.2	6.6	6.5	7.7	8.6	9.3	8.6	9.0
90°	15.9	13.3	10.8	8.6	6.7	4.7	2.8	0.9	2.8	4.7	6.7
92.5°	30.7	29.2	27.7	26.3	25.1	23.8	22.4	21.1	22.4	23.8	25.1
95°	61.5	59.9	58.4	56.9	55.5	54.2	52.8	51.5	52.8	54.2	55.5
97.5°	98.8	97.6	96.5	95.5	94.5	93.4	92.4	91.4	92.4	93.4	94.5
100°	126.3	125.4	124.3	123.3	122.1	121.0	119.8	118.6	119.8	121.0	122.1
102.5°	156.4	155.1	153.8	152.8	152.1	151.4	150.8	150.1	150.8	151.4	152.1
105°	202.3	200.6	198.9	197.9	197.4	197.1	196.7	196.3	196.7	197.1	197.4
107.5°	252.8	252.1	251.4	250.9	250.7	250.5	250.2	250.0	250.2	250.5	250.7
110°	286.2	285.9	285.4	285.1	284.6	284.3	283.9	283.5	283.9	284.3	284.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	319.6	319.5	319.4	319.3	319.1	318.8	318.7	318.4	318.7	318.8	319.1
115°	372.4	372.7	373.2	373.1	372.5	371.9	371.3	370.7	371.3	371.9	372.5
117.5°	423.9	424.4	424.9	425.0	424.6	424.2	423.8	423.4	423.8	424.2	424.6
120°	459.0	459.9	461.0	460.9	459.7	458.6	457.4	456.2	457.4	458.6	459.7
122.5°	493.0	493.5	494.0	493.8	492.9	492.1	491.3	490.4	491.3	492.1	492.9
125°	544.2	544.6	545.0	544.9	544.3	543.7	543.1	542.6	543.1	543.7	544.3
127.5°	595.2	595.6	596.1	595.6	594.4	593.2	591.9	590.7	591.9	593.2	594.4
130°	628.4	629.0	629.5	629.0	627.5	625.9	624.4	622.8	624.4	625.9	627.5
132.5°	660.8	661.2	661.7	661.2	659.6	658.0	656.4	654.9	656.4	658.0	659.6
135°	708.7	708.9	709.0	708.6	707.4	706.3	705.1	704.0	705.1	706.3	707.4
137.5°	754.9	754.4	753.9	753.2	752.2	751.2	750.3	749.3	750.3	751.2	752.2
140°	785.6	785.3	785.1	784.5	783.6	782.6	781.7	780.7	781.7	782.6	783.6
142.5°	814.5	814.2	813.8	813.2	812.2	811.2	810.3	809.3	810.3	811.2	812.2
145°	857.2	856.6	856.0	855.5	855.1	854.7	854.4	853.9	854.4	854.7	855.1
147.5°	897.6	897.0	896.5	895.9	895.2	894.4	893.7	893.0	893.7	894.4	895.2
150°	923.0	922.6	922.2	921.8	921.4	921.0	920.7	920.2	920.7	921.0	921.4
152.5°	945.6	945.4	945.1	944.8	944.3	943.7	943.1	942.6	943.1	943.7	944.3
155°	978.4	978.1	977.9	977.8	977.8	977.8	977.8	977.8	977.8	977.8	977.8
157.5°	1007.2	1007.0	1006.9	1006.9	1007.1	1007.4	1007.6	1007.9	1007.6	1007.4	1007.1
160°	1024.9	1024.9	1024.9	1025.1	1025.5	1025.9	1026.3	1026.7	1026.3	1025.9	1025.5
162.5°	1041.4	1041.2	1041.0	1041.3	1041.8	1042.3	1042.9	1043.4	1042.9	1042.3	1041.8
165°	1062.5	1062.5	1062.5	1062.7	1063.3	1063.9	1064.5	1065.1	1064.5	1063.9	1063.3
167.5°	1079.3	1079.1	1078.9	1079.3	1080.0	1080.8	1081.6	1082.4	1081.6	1080.8	1080.0
170°	1088.6	1088.6	1088.6	1089.0	1089.8	1090.5	1091.3	1092.1	1091.3	1090.5	1089.8
172.5°	1096.3	1096.3	1096.3	1096.7	1097.4	1098.2	1099.0	1099.8	1099.0	1098.2	1097.4
175°	1104.3	1104.3	1104.3	1104.7	1105.5	1106.3	1107.1	1107.8	1107.1	1106.3	1105.5
177.5°	1108.4	1108.4	1108.4	1108.6	1109.2	1109.9	1110.5	1111.1	1110.5	1109.9	1109.2
180°	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	757.2	753.7	751.4	746.1	742.7	739.0	735.3	737.6	737.4	737.1	737.1
5°	731.8	724.2	717.3	708.3	702.7	695.9	690.5	689.9	691.2	686.6	684.0
7.5°	706.6	696.2	686.4	676.6	666.2	657.8	652.6	650.2	646.9	644.0	641.0
10°	688.9	676.7	667.1	655.0	643.8	633.9	627.6	623.3	621.0	618.6	614.4
12.5°	670.7	658.8	646.5	632.7	622.1	610.6	606.0	601.2	596.7	594.1	588.2
15°	644.0	628.5	615.7	601.2	589.4	578.1	571.5	562.0	560.6	557.3	551.4
17.5°	617.3	600.5	582.8	572.0	558.6	547.0	536.9	533.7	524.3	520.7	515.6
20°	596.2	580.7	567.2	553.0	533.6	522.7	514.8	510.5	502.9	498.3	495.0
22.5°	578.1	562.2	546.6	530.1	514.0	501.9	496.0	489.4	485.3	478.8	475.2
25°	552.1	534.9	516.1	498.3	486.7	477.5	468.3	462.4	456.4	453.4	446.9
27.5°	521.9	503.9	486.4	472.9	458.7	449.5	441.2	435.9	428.8	423.8	420.2
30°	505.2	484.1	469.0	456.8	438.6	430.1	423.8	417.2	411.9	406.7	402.9
32.5°	485.9	466.7	452.3	437.2	423.3	414.0	405.8	400.0	395.5	390.5	386.9
35°	455.7	439.6	424.7	409.6	399.3	389.8	380.2	375.3	371.0	366.4	363.1
37.5°	428.4	413.4	399.2	384.9	372.2	364.4	356.7	352.9	347.2	344.1	340.7
40°	411.6	396.7	381.6	367.7	354.5	348.6	341.6	336.0	330.8	328.5	324.9
42.5°	393.1	378.2	365.5	350.5	339.8	331.7	325.3	319.2	315.2	311.9	309.8
45°	365.8	352.5	340.0	325.2	315.0	308.0	300.7	295.2	291.5	289.2	285.6
47.5°	339.1	326.0	313.2	300.3	290.4	282.5	275.3	271.3	266.6	263.7	261.2
50°	319.9	308.0	294.5	282.6	272.8	264.8	258.9	253.9	249.6	246.0	244.4
52.5°	302.2	289.6	277.8	266.8	256.4	247.4	242.0	236.8	233.6	229.4	227.5
55°	273.0	260.9	251.0	240.0	229.9	222.3	215.7	211.0	207.8	203.1	200.5
57.5°	245.6	234.7	222.9	213.5	202.9	196.6	191.1	184.8	180.8	177.2	174.6
60°	227.2	214.6	204.5	195.5	186.3	178.1	173.1	168.2	163.9	160.2	158.0
62.5°	207.9	197.0	187.4	177.6	169.2	162.0	156.3	152.1	148.4	146.0	143.7
65°	178.4	169.9	160.0	152.1	144.1	138.9	134.2	130.6	127.9	126.3	124.3
67.5°	151.3	142.9	134.3	126.5	121.2	117.2	114.2	111.1	109.8	107.6	106.3
70°	133.5	125.0	117.4	111.5	106.2	103.2	101.3	98.9	97.6	95.0	93.7
72.5°	114.3	108.1	102.6	97.7	93.5	90.8	88.3	85.5	83.3	80.5	79.1
75°	90.1	84.5	80.2	76.8	74.2	70.6	67.0	64.0	63.0	62.0	61.6
77.5°	66.6	63.1	60.0	57.3	54.0	51.3	50.5	49.9	49.7	49.2	49.2
80°	52.4	49.2	46.8	43.6	41.6	41.6	41.6	40.9	41.2	41.2	41.2
82.5°	39.0	35.9	34.7	33.5	33.1	33.4	33.4	33.5	33.3	33.8	33.6
85°	20.1	20.4	21.1	20.8	21.1	21.1	21.8	21.4	21.8	21.1	21.8
87.5°	9.1	10.3	11.1	11.9	12.7	12.9	13.3	13.4	13.9	14.0	14.1
90°	8.6	10.8	13.3	15.9	18.4	20.9	21.7	22.5	23.2	24.0	24.6
92.5°	26.3	27.7	29.2	30.7	32.0	33.5	34.1	34.7	35.4	36.0	36.2
95°	56.9	58.4	59.9	61.5	63.0	64.6	65.3	66.1	66.9	67.7	68.0
97.5°	95.5	96.5	97.6	98.8	99.9	101.0	101.9	102.8	103.7	104.6	105.0
100°	123.3	124.3	125.4	126.3	127.3	128.2	128.8	129.4	130.0	130.5	131.0
102.5°	152.8	153.8	155.1	156.4	157.6	158.9	159.5	160.1	160.7	161.3	161.5
105°	197.9	198.9	200.6	202.3	204.1	205.9	205.9	205.9	205.9	205.9	206.0
107.5°	250.9	251.4	252.1	252.8	253.5	254.2	254.8	255.5	256.1	256.7	256.8
110°	285.1	285.4	285.9	286.2	286.6	287.0	287.7	288.5	289.3	290.1	290.2



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	319.3	319.4	319.5	319.6	319.7	319.8	320.7	321.7	322.5	323.5	323.9
115°	373.1	373.2	372.7	372.4	372.0	371.6	371.8	372.0	372.2	372.4	372.4
117.5°	425.0	424.9	424.4	423.9	423.4	422.9	422.8	422.8	422.8	422.8	422.4
120°	460.9	461.0	459.9	459.0	458.1	457.1	456.8	456.7	456.5	456.3	456.0
122.5°	493.8	494.0	493.5	493.0	492.5	492.0	491.5	490.9	490.4	490.0	489.4
125°	544.9	545.0	544.6	544.2	543.8	543.5	542.7	541.9	541.1	540.4	539.6
127.5°	595.6	596.1	595.6	595.2	594.8	594.3	593.3	592.2	591.2	590.0	589.0
130°	629.0	629.5	629.0	628.4	627.8	627.2	626.4	625.6	624.8	624.1	623.0
132.5°	661.2	661.7	661.2	660.8	660.4	660.0	659.0	658.1	657.2	656.3	655.3
135°	708.6	709.0	708.9	708.7	708.5	708.3	707.5	706.7	705.9	705.2	704.6
137.5°	753.2	753.9	754.4	754.9	755.4	756.0	755.1	754.3	753.5	752.7	751.9
140°	784.5	785.1	785.3	785.6	785.7	785.9	785.7	785.6	785.3	785.1	784.4
142.5°	813.2	813.8	814.2	814.5	814.9	815.3	815.0	814.9	814.7	814.5	813.8
145°	855.5	856.0	856.6	857.2	857.7	858.3	858.2	858.0	857.7	857.6	857.0
147.5°	895.9	896.5	897.0	897.6	898.1	898.6	898.6	898.6	898.6	898.6	898.0
150°	921.8	922.2	922.6	923.0	923.3	923.8	923.8	923.8	923.8	923.8	923.2
152.5°	944.8	945.1	945.4	945.6	945.9	946.1	946.4	946.7	947.0	947.4	947.0
155°	977.8	977.9	978.1	978.4	978.5	978.7	979.5	980.2	981.0	981.8	981.5
157.5°	1006.9	1006.9	1007.0	1007.2	1007.4	1007.5	1008.3	1009.1	1010.0	1010.7	1010.6
160°	1025.1	1024.9	1024.9	1024.9	1024.9	1024.9	1025.9	1026.9	1027.9	1028.8	1028.9
162.5°	1041.3	1041.0	1041.2	1041.4	1041.6	1041.7	1042.7	1043.6	1044.6	1045.6	1045.4
165°	1062.7	1062.5	1062.5	1062.5	1062.5	1062.5	1063.6	1064.8	1065.9	1067.1	1067.0
167.5°	1079.3	1078.9	1079.1	1079.3	1079.4	1079.5	1080.7	1081.9	1083.1	1084.3	1084.3
170°	1089.0	1088.6	1088.6	1088.6	1088.6	1088.6	1089.9	1091.3	1092.7	1094.1	1094.1
172.5°	1096.7	1096.3	1096.3	1096.3	1096.3	1096.3	1097.5	1098.7	1099.9	1101.1	1101.0
175°	1104.7	1104.3	1104.3	1104.3	1104.3	1104.3	1105.5	1106.6	1107.8	1109.0	1108.9
177.5°	1108.6	1108.4	1108.4	1108.4	1108.4	1108.4	1109.2	1110.2	1111.1	1112.1	1112.0
180°	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	733.9	733.7	733.9	732.9	733.9	733.7	733.9	737.1	737.1	737.4	737.6
5°	682.9	682.6	681.7	678.7	681.7	682.6	682.9	684.0	686.6	691.2	689.9
7.5°	638.4	638.0	635.1	635.2	635.1	638.0	638.4	641.0	644.0	646.9	650.2
10°	612.1	612.4	608.5	606.1	608.5	612.4	612.1	614.4	618.6	621.0	623.3
12.5°	586.5	585.0	581.8	579.2	581.8	585.0	586.5	588.2	594.1	596.7	601.2
15°	552.7	549.4	541.5	542.2	541.5	549.4	552.7	551.4	557.3	560.6	562.0
17.5°	512.9	510.5	510.4	505.8	510.4	510.5	512.9	515.6	520.7	524.3	533.7
20°	489.7	488.1	488.7	484.1	488.7	488.1	489.7	495.0	498.3	502.9	510.5
22.5°	471.5	469.8	467.1	465.6	467.1	469.8	471.5	475.2	478.8	485.3	489.4
25°	444.9	442.2	439.6	441.3	439.6	442.2	444.9	446.9	453.4	456.4	462.4
27.5°	418.2	416.2	413.6	413.3	413.6	416.2	418.2	420.2	423.8	428.8	435.9
30°	401.3	399.3	398.0	396.4	398.0	399.3	401.3	402.9	406.7	411.9	417.2
32.5°	384.2	383.8	381.4	381.1	381.4	383.8	384.2	386.9	390.5	395.5	400.0
35°	361.8	359.8	359.1	359.5	359.1	359.8	361.8	363.1	366.4	371.0	375.3
37.5°	340.4	337.9	336.7	335.4	336.7	337.9	340.4	340.7	344.1	347.2	352.9
40°	325.2	322.5	321.8	321.2	321.8	322.5	325.2	324.9	328.5	330.8	336.0
42.5°	308.0	306.9	306.6	305.4	306.6	306.9	308.0	309.8	311.9	315.2	319.2
45°	284.6	284.3	282.3	282.9	282.3	284.3	284.6	285.6	289.2	291.5	295.2
47.5°	259.9	258.5	257.1	258.0	257.1	258.5	259.9	261.2	263.7	266.6	271.3
50°	243.1	242.4	239.4	240.0	239.4	242.4	243.1	244.4	246.0	249.6	253.9
52.5°	226.2	223.7	222.6	222.1	222.6	223.7	226.2	227.5	229.4	233.6	236.8
55°	198.2	195.2	193.9	193.2	193.9	195.2	198.2	200.5	203.1	207.8	211.0
57.5°	170.7	170.0	168.9	169.6	168.9	170.0	170.7	174.6	177.2	180.8	184.8
60°	154.6	154.6	154.6	154.4	154.6	154.6	154.6	158.0	160.2	163.9	168.2
62.5°	142.2	141.5	141.2	141.6	141.2	141.5	142.2	143.7	146.0	148.4	152.1
65°	123.3	123.0	121.7	121.4	121.7	123.0	123.3	124.3	126.3	127.9	130.6
67.5°	105.5	104.3	103.9	103.4	103.9	104.3	105.5	106.3	107.6	109.8	111.1
70°	92.0	91.4	89.4	89.7	89.4	91.4	92.0	93.7	95.0	97.6	98.9
72.5°	77.5	76.8	76.5	75.9	76.5	76.8	77.5	79.1	80.5	83.3	85.5
75°	61.3	61.0	60.7	62.0	60.7	61.0	61.3	61.6	62.0	63.0	64.0
77.5°	49.2	49.2	49.3	48.8	49.3	49.2	49.2	49.2	49.2	49.7	49.9
80°	41.2	41.2	40.9	40.9	40.9	41.2	41.2	41.2	41.2	41.2	40.9
82.5°	33.1	33.3	33.5	33.0	33.5	33.3	33.1	33.6	33.8	33.3	33.5
85°	21.8	21.4	22.1	21.8	22.1	21.4	21.8	21.8	21.1	21.8	21.4
87.5°	14.7	14.3	14.4	14.7	14.4	14.3	14.7	14.1	14.0	13.9	13.4
90°	25.0	25.4	25.7	26.2	25.7	25.4	25.0	24.6	24.0	23.2	22.5
92.5°	35.9	35.7	35.5	35.2	35.5	35.7	35.9	36.2	36.0	35.4	34.7
95°	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	67.7	66.9	66.1
97.5°	104.9	104.9	104.8	104.7	104.8	104.9	104.9	105.0	104.6	103.7	102.8
100°	131.4	131.8	132.2	132.6	132.2	131.8	131.4	131.0	130.5	130.0	129.4
102.5°	161.4	161.4	161.3	161.2	161.3	161.4	161.4	161.5	161.3	160.7	160.1
105°	206.5	206.8	207.2	207.6	207.2	206.8	206.5	206.0	205.9	205.9	205.9
107.5°	256.7	256.4	256.1	255.9	256.1	256.4	256.7	256.8	256.7	256.1	255.5
110°	289.9	289.5	289.1	288.7	289.1	289.5	289.9	290.2	290.1	289.3	288.5



TEST NUMBER: P332419-935

CATALOG NUMBER: S123RDIW-S560D1030U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	323.8	323.7	323.7	323.6	323.7	323.7	323.8	323.9	323.5	322.5	321.7
115°	372.2	372.0	371.8	371.6	371.8	372.0	372.2	372.4	372.4	372.2	372.0
117.5°	421.9	421.4	420.8	420.3	420.8	421.4	421.9	422.4	422.8	422.8	422.8
120°	455.6	455.2	454.9	454.4	454.9	455.2	455.6	456.0	456.3	456.5	456.7
122.5°	488.9	488.4	487.8	487.2	487.8	488.4	488.9	489.4	490.0	490.4	490.9
125°	538.8	538.0	537.3	536.5	537.3	538.0	538.8	539.6	540.4	541.1	541.9
127.5°	588.1	587.3	586.3	585.5	586.3	587.3	588.1	589.0	590.0	591.2	592.2
130°	621.6	620.3	619.0	617.6	619.0	620.3	621.6	623.0	624.1	624.8	625.6
132.5°	654.2	653.2	652.1	651.1	652.1	653.2	654.2	655.3	656.3	657.2	658.1
135°	704.2	703.9	703.4	703.1	703.4	703.9	704.2	704.6	705.2	705.9	706.7
137.5°	751.1	750.4	749.7	749.0	749.7	750.4	751.1	751.9	752.7	753.5	754.3
140°	783.0	781.7	780.3	778.9	780.3	781.7	783.0	784.4	785.1	785.3	785.6
142.5°	812.8	811.8	810.7	809.7	810.7	811.8	812.8	813.8	814.5	814.7	814.9
145°	856.3	855.5	854.7	853.9	854.7	855.5	856.3	857.0	857.6	857.7	858.0
147.5°	896.9	895.7	894.6	893.4	894.6	895.7	896.9	898.0	898.6	898.6	898.6
150°	922.0	920.8	919.7	918.5	919.7	920.8	922.0	923.2	923.8	923.8	923.8
152.5°	946.0	944.9	943.9	943.0	943.9	944.9	946.0	947.0	947.4	947.0	946.7
155°	980.2	978.8	977.5	976.1	977.5	978.8	980.2	981.5	981.8	981.0	980.2
157.5°	1009.5	1008.5	1007.4	1006.3	1007.4	1008.5	1009.5	1010.6	1010.7	1010.0	1009.1
160°	1028.1	1027.3	1026.6	1025.8	1026.6	1027.3	1028.1	1028.9	1028.8	1027.9	1026.9
162.5°	1044.2	1042.9	1041.7	1040.4	1041.7	1042.9	1044.2	1045.4	1045.6	1044.6	1043.6
165°	1065.7	1064.3	1062.9	1061.6	1062.9	1064.3	1065.7	1067.0	1067.1	1065.9	1064.8
167.5°	1083.1	1081.9	1080.7	1079.5	1080.7	1081.9	1083.1	1084.3	1084.3	1083.1	1081.9
170°	1092.7	1091.3	1089.9	1088.6	1089.9	1091.3	1092.7	1094.1	1094.1	1092.7	1091.3
172.5°	1099.7	1098.3	1096.9	1095.6	1096.9	1098.3	1099.7	1101.0	1101.1	1099.9	1098.7
175°	1107.5	1106.1	1104.8	1103.5	1104.8	1106.1	1107.5	1108.9	1109.0	1107.8	1106.6
177.5°	1110.9	1109.8	1108.7	1107.7	1108.7	1109.8	1110.9	1112.0	1112.1	1111.1	1110.2
180°	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4



TEST NUMBER: P332419-935

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	735.3	739.0	742.7	746.1	751.4	753.7	757.2	758.5	762.4	768.3	773.0
5°	690.5	695.9	702.7	708.3	717.3	724.2	731.8	739.0	747.6	759.8	770.7
7.5°	652.6	657.8	666.2	676.6	686.4	696.2	706.6	716.4	728.8	746.2	763.5
10°	627.6	633.9	643.8	655.0	667.1	676.7	688.9	701.5	716.6	736.8	757.5
12.5°	606.0	610.6	622.1	632.7	646.5	658.8	670.7	685.4	702.7	724.1	749.1
15°	571.5	578.1	589.4	601.2	615.7	628.5	644.0	661.9	678.7	705.1	735.4
17.5°	536.9	547.0	558.6	572.0	582.8	600.5	617.3	635.6	656.3	684.3	717.6
20°	514.8	522.7	533.6	553.0	567.2	580.7	596.2	619.0	638.1	669.8	704.4
22.5°	496.0	501.9	514.0	530.1	546.6	562.2	578.1	599.8	623.4	653.4	691.0
25°	468.3	477.5	486.7	498.3	516.1	534.9	552.1	570.5	595.6	627.6	668.1
27.5°	441.2	449.5	458.7	472.9	486.4	503.9	521.9	543.0	569.9	603.7	644.9
30°	423.8	430.1	438.6	456.8	469.0	484.1	505.2	524.0	549.1	585.0	628.5
32.5°	405.8	414.0	423.3	437.2	452.3	466.7	485.9	506.4	531.9	567.3	611.9
35°	380.2	389.8	399.3	409.6	424.7	439.6	455.7	478.2	504.2	538.6	582.4
37.5°	356.7	364.4	372.2	384.9	399.2	413.4	428.4	450.6	475.1	512.1	552.3
40°	341.6	348.6	354.5	367.7	381.6	396.7	411.6	431.0	457.4	492.1	531.0
42.5°	325.3	331.7	339.8	350.5	365.5	378.2	393.1	411.5	436.3	471.5	505.6
45°	300.7	308.0	315.0	325.2	340.0	352.5	365.8	383.2	408.6	437.6	468.0
47.5°	275.3	282.5	290.4	300.3	313.2	326.0	339.1	354.6	377.8	406.3	426.7
50°	258.9	264.8	272.8	282.6	294.5	308.0	319.9	336.7	358.8	381.3	399.1
52.5°	242.0	247.4	256.4	266.8	277.8	289.6	302.2	316.7	336.7	357.7	371.9
55°	215.7	222.3	229.9	240.0	251.0	260.9	273.0	287.9	303.8	319.5	329.2
57.5°	191.1	196.6	202.9	213.5	222.9	234.7	245.6	257.3	271.9	283.8	290.1
60°	173.1	178.1	186.3	195.5	204.5	214.6	227.2	238.8	249.9	259.5	264.5
62.5°	156.3	162.0	169.2	177.6	187.4	197.0	207.9	217.7	227.6	235.8	239.2
65°	134.2	138.9	144.1	152.1	160.0	169.9	178.4	188.3	195.5	200.2	203.1
67.5°	114.2	117.2	121.2	126.5	134.3	142.9	151.3	158.9	165.1	168.2	170.8
70°	101.3	103.2	106.2	111.5	117.4	125.0	133.5	139.1	144.5	147.1	149.7
72.5°	88.3	90.8	93.5	97.7	102.6	108.1	114.3	121.2	124.2	127.3	128.9
75°	67.0	70.6	74.2	76.8	80.2	84.5	90.1	94.3	96.0	98.6	98.9
77.5°	50.5	51.3	54.0	57.3	60.0	63.1	66.6	70.5	71.3	72.7	73.5
80°	41.6	41.6	41.6	43.6	46.8	49.2	52.4	54.4	55.7	56.1	56.4
82.5°	33.4	33.4	33.1	33.5	34.7	35.9	39.0	41.2	42.3	42.1	41.3
85°	21.8	21.1	21.1	20.8	21.1	20.4	20.1	21.4	23.4	23.4	22.7
87.5°	13.3	12.9	12.7	11.9	11.1	10.3	9.1	9.0	8.6	9.3	8.6
90°	21.7	20.9	18.4	15.9	13.3	10.8	8.6	6.7	4.7	2.8	0.9
92.5°	34.1	33.5	32.0	30.7	29.2	27.7	26.3	25.1	23.8	22.4	21.1
95°	65.3	64.6	63.0	61.5	59.9	58.4	56.9	55.5	54.2	52.8	51.5
97.5°	101.9	101.0	99.9	98.8	97.6	96.5	95.5	94.5	93.4	92.4	91.4
100°	128.8	128.2	127.3	126.3	125.4	124.3	123.3	122.1	121.0	119.8	118.6
102.5°	159.5	158.9	157.6	156.4	155.1	153.8	152.8	152.1	151.4	150.8	150.1
105°	205.9	205.9	204.1	202.3	200.6	198.9	197.9	197.4	197.1	196.7	196.3
107.5°	254.8	254.2	253.5	252.8	252.1	251.4	250.9	250.7	250.5	250.2	250.0
110°	287.7	287.0	286.6	286.2	285.9	285.4	285.1	284.6	284.3	283.9	283.5



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	320.7	319.8	319.7	319.6	319.5	319.4	319.3	319.1	318.8	318.7	318.4
115°	371.8	371.6	372.0	372.4	372.7	373.2	373.1	372.5	371.9	371.3	370.7
117.5°	422.8	422.9	423.4	423.9	424.4	424.9	425.0	424.6	424.2	423.8	423.4
120°	456.8	457.1	458.1	459.0	459.9	461.0	460.9	459.7	458.6	457.4	456.2
122.5°	491.5	492.0	492.5	493.0	493.5	494.0	493.8	492.9	492.1	491.3	490.4
125°	542.7	543.5	543.8	544.2	544.6	545.0	544.9	544.3	543.7	543.1	542.6
127.5°	593.3	594.3	594.8	595.2	595.6	596.1	595.6	594.4	593.2	591.9	590.7
130°	626.4	627.2	627.8	628.4	629.0	629.5	629.0	627.5	625.9	624.4	622.8
132.5°	659.0	660.0	660.4	660.8	661.2	661.7	661.2	659.6	658.0	656.4	654.9
135°	707.5	708.3	708.5	708.7	708.9	709.0	708.6	707.4	706.3	705.1	704.0
137.5°	755.1	756.0	755.4	754.9	754.4	753.9	753.2	752.2	751.2	750.3	749.3
140°	785.7	785.9	785.7	785.6	785.3	785.1	784.5	783.6	782.6	781.7	780.7
142.5°	815.0	815.3	814.9	814.5	814.2	813.8	813.2	812.2	811.2	810.3	809.3
145°	858.2	858.3	857.7	857.2	856.6	856.0	855.5	855.1	854.7	854.4	853.9
147.5°	898.6	898.6	898.1	897.6	897.0	896.5	895.9	895.2	894.4	893.7	893.0
150°	923.8	923.8	923.3	923.0	922.6	922.2	921.8	921.4	921.0	920.7	920.2
152.5°	946.4	946.1	945.9	945.6	945.4	945.1	944.8	944.3	943.7	943.1	942.6
155°	979.5	978.7	978.5	978.4	978.1	977.9	977.8	977.8	977.8	977.8	977.8
157.5°	1008.3	1007.5	1007.4	1007.2	1007.0	1006.9	1006.9	1007.1	1007.4	1007.6	1007.9
160°	1025.9	1024.9	1024.9	1024.9	1024.9	1024.9	1025.1	1025.5	1025.9	1026.3	1026.7
162.5°	1042.7	1041.7	1041.6	1041.4	1041.2	1041.0	1041.3	1041.8	1042.3	1042.9	1043.4
165°	1063.6	1062.5	1062.5	1062.5	1062.5	1062.5	1062.7	1063.3	1063.9	1064.5	1065.1
167.5°	1080.7	1079.5	1079.4	1079.3	1079.1	1078.9	1079.3	1080.0	1080.8	1081.6	1082.4
170°	1089.9	1088.6	1088.6	1088.6	1088.6	1088.6	1089.0	1089.8	1090.5	1091.3	1092.1
172.5°	1097.5	1096.3	1096.3	1096.3	1096.3	1096.3	1096.7	1097.4	1098.2	1099.0	1099.8
175°	1105.5	1104.3	1104.3	1104.3	1104.3	1104.3	1104.7	1105.5	1106.3	1107.1	1107.8
177.5°	1109.2	1108.4	1108.4	1108.4	1108.4	1108.4	1108.6	1109.2	1109.9	1110.5	1111.1
180°	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	774.6	777.5	781.2	786.7	790.9	794.6	795.4	796.5	799.1	803.6	807.0
5°	779.6	787.2	799.4	811.2	824.1	834.7	844.6	851.5	858.1	871.9	883.1
7.5°	778.0	794.9	814.0	835.3	856.9	877.8	897.2	914.6	931.9	952.0	975.0
10°	777.0	796.8	822.4	849.8	879.9	909.2	937.5	959.7	985.4	1008.5	1037.8
12.5°	772.0	800.5	831.2	866.2	903.1	936.9	974.2	1004.8	1034.1	1067.6	1101.6
15°	765.4	800.0	839.0	885.5	941.5	982.4	1020.6	1073.8	1110.0	1146.3	1195.2
17.5°	753.5	795.7	844.4	904.7	951.6	1006.5	1064.0	1106.0	1154.9	1206.0	1250.2
20°	744.0	793.2	847.6	906.9	966.6	1026.3	1082.0	1132.1	1182.6	1241.6	1277.9
22.5°	734.5	783.1	839.6	902.7	966.8	1029.7	1092.8	1151.7	1208.4	1268.0	1314.3
25°	714.3	772.0	833.4	897.7	961.0	1030.2	1105.4	1171.0	1241.3	1302.6	1346.5
27.5°	693.9	746.7	807.8	873.1	943.4	1025.3	1113.7	1188.4	1258.7	1302.6	1316.4
30°	675.4	731.4	787.5	853.8	930.0	1021.3	1115.3	1200.8	1258.4	1277.6	1263.3
32.5°	656.7	707.5	763.0	830.9	911.8	1011.6	1117.4	1193.3	1228.1	1213.5	1155.7
35°	623.6	669.4	723.2	791.2	884.2	1006.2	1108.7	1160.2	1151.6	1069.1	960.3
37.5°	588.2	625.6	675.4	746.4	855.5	984.7	1071.3	1078.8	1004.6	878.0	752.3
40°	560.3	593.9	645.1	719.3	833.4	963.6	1033.5	1002.9	887.8	746.9	642.0
42.5°	533.1	561.5	610.7	690.8	812.3	934.9	977.3	910.5	777.7	644.5	549.2
45°	487.1	513.8	563.3	645.4	769.0	879.9	874.3	758.2	625.3	518.1	438.9
47.5°	443.4	466.7	513.2	597.0	718.3	797.4	744.9	621.5	508.7	422.8	366.3
50°	412.6	435.7	481.8	564.6	677.7	735.4	660.6	541.5	438.2	367.0	322.2
52.5°	383.0	405.5	447.8	528.4	628.6	663.1	582.7	472.3	386.3	324.9	286.3
55°	341.6	358.8	396.7	473.9	548.7	556.6	475.2	382.9	311.9	269.1	242.7
57.5°	299.5	314.3	351.7	413.2	465.7	461.6	384.4	304.5	256.8	224.9	205.8
60°	272.1	286.5	319.5	372.3	411.9	398.0	327.2	262.9	222.0	198.5	183.4
62.5°	246.5	257.8	288.7	327.2	355.7	340.0	279.7	226.4	194.0	174.3	162.2
65°	209.4	218.6	243.4	263.5	279.3	264.2	214.0	177.1	153.7	139.8	131.6
67.5°	174.2	180.0	195.7	202.9	214.1	197.5	160.9	136.2	122.9	111.2	105.5
70°	152.1	156.4	164.5	170.5	173.5	156.4	129.2	111.2	100.0	91.7	88.1
72.5°	129.8	133.6	135.3	140.2	138.6	122.5	103.9	89.5	81.5	75.9	71.2
75°	99.3	100.9	99.3	97.3	93.0	81.8	69.0	61.6	55.7	53.1	51.5
77.5°	72.3	71.8	69.6	66.5	59.2	52.1	45.2	42.7	40.2	38.7	38.2
80°	55.7	54.4	52.4	47.5	41.2	36.2	34.6	33.0	32.0	30.3	30.0
82.5°	41.5	40.7	37.4	33.2	28.8	26.5	25.1	24.5	23.5	22.7	22.6
85°	22.1	21.1	17.5	15.2	14.6	13.9	13.5	13.5	12.2	11.9	11.9
87.5°	7.7	6.5	6.6	6.2	6.6	6.6	7.4	7.4	7.6	8.0	7.7
90°	2.8	4.7	6.7	8.6	10.8	13.3	15.9	18.4	20.9	21.7	22.5
92.5°	22.4	23.8	25.1	26.3	27.7	29.2	30.7	32.0	33.5	34.1	34.7
95°	52.8	54.2	55.5	56.9	58.4	59.9	61.5	63.0	64.6	65.3	66.1
97.5°	92.4	93.4	94.5	95.5	96.5	97.6	98.8	99.9	101.0	101.9	102.8
100°	119.8	121.0	122.1	123.3	124.3	125.4	126.3	127.3	128.2	128.8	129.4
102.5°	150.8	151.4	152.1	152.8	153.8	155.1	156.4	157.6	158.9	159.5	160.1
105°	196.7	197.1	197.4	197.9	198.9	200.6	202.3	204.1	205.9	205.9	205.9
107.5°	250.2	250.5	250.7	250.9	251.4	252.1	252.8	253.5	254.2	254.8	255.5
110°	283.9	284.3	284.6	285.1	285.4	285.9	286.2	286.6	287.0	287.7	288.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	318.7	318.8	319.1	319.3	319.4	319.5	319.6	319.7	319.8	320.7	321.7
115°	371.3	371.9	372.5	373.1	373.2	372.7	372.4	372.0	371.6	371.8	372.0
117.5°	423.8	424.2	424.6	425.0	424.9	424.4	423.9	423.4	422.9	422.8	422.8
120°	457.4	458.6	459.7	460.9	461.0	459.9	459.0	458.1	457.1	456.8	456.7
122.5°	491.3	492.1	492.9	493.8	494.0	493.5	493.0	492.5	492.0	491.5	490.9
125°	543.1	543.7	544.3	544.9	545.0	544.6	544.2	543.8	543.5	542.7	541.9
127.5°	591.9	593.2	594.4	595.6	596.1	595.6	595.2	594.8	594.3	593.3	592.2
130°	624.4	625.9	627.5	629.0	629.5	629.0	628.4	627.8	627.2	626.4	625.6
132.5°	656.4	658.0	659.6	661.2	661.7	661.2	660.8	660.4	660.0	659.0	658.1
135°	705.1	706.3	707.4	708.6	709.0	708.9	708.7	708.5	708.3	707.5	706.7
137.5°	750.3	751.2	752.2	753.2	753.9	754.4	754.9	755.4	756.0	755.1	754.3
140°	781.7	782.6	783.6	784.5	785.1	785.3	785.6	785.7	785.9	785.7	785.6
142.5°	810.3	811.2	812.2	813.2	813.8	814.2	814.5	814.9	815.3	815.0	814.9
145°	854.4	854.7	855.1	855.5	856.0	856.6	857.2	857.7	858.3	858.2	858.0
147.5°	893.7	894.4	895.2	895.9	896.5	897.0	897.6	898.1	898.6	898.6	898.6
150°	920.7	921.0	921.4	921.8	922.2	922.6	923.0	923.3	923.8	923.8	923.8
152.5°	943.1	943.7	944.3	944.8	945.1	945.4	945.6	945.9	946.1	946.4	946.7
155°	977.8	977.8	977.8	977.8	977.9	978.1	978.4	978.5	978.7	979.5	980.2
157.5°	1007.6	1007.4	1007.1	1006.9	1006.9	1007.0	1007.2	1007.4	1007.5	1008.3	1009.1
160°	1026.3	1025.9	1025.5	1025.1	1024.9	1024.9	1024.9	1024.9	1024.9	1025.9	1026.9
162.5°	1042.9	1042.3	1041.8	1041.3	1041.0	1041.2	1041.4	1041.6	1041.7	1042.7	1043.6
165°	1064.5	1063.9	1063.3	1062.7	1062.5	1062.5	1062.5	1062.5	1062.5	1063.6	1064.8
167.5°	1081.6	1080.8	1080.0	1079.3	1078.9	1079.1	1079.3	1079.4	1079.5	1080.7	1081.9
170°	1091.3	1090.5	1089.8	1089.0	1088.6	1088.6	1088.6	1088.6	1088.6	1089.9	1091.3
172.5°	1099.0	1098.2	1097.4	1096.7	1096.3	1096.3	1096.3	1096.3	1096.3	1097.5	1098.7
175°	1107.1	1106.3	1105.5	1104.7	1104.3	1104.3	1104.3	1104.3	1104.3	1105.5	1106.6
177.5°	1110.5	1109.9	1109.2	1108.6	1108.4	1108.4	1108.4	1108.4	1108.4	1109.2	1110.2
180°	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	770.3	770.3	770.3	770.3	770.3	770.3	770.3
2.5°	812.6	812.6	813.6	817.6	818.1	821.6	820.4
5°	893.0	899.3	901.6	911.5	917.5	920.1	914.8
7.5°	991.4	1009.1	1017.5	1027.9	1037.0	1039.8	1032.6
10°	1063.2	1081.7	1097.2	1106.7	1115.7	1121.5	1129.2
12.5°	1132.6	1155.3	1170.0	1183.5	1192.7	1200.2	1201.4
15°	1208.0	1242.3	1268.3	1287.5	1297.0	1302.0	1300.0
17.5°	1284.0	1315.8	1334.4	1353.8	1367.1	1367.8	1368.2
20°	1327.1	1358.1	1379.5	1394.0	1408.9	1408.2	1411.4
22.5°	1355.8	1380.2	1396.6	1407.1	1412.2	1409.7	1410.4
25°	1369.2	1376.5	1373.6	1356.7	1352.5	1337.0	1339.5
27.5°	1299.9	1265.6	1230.1	1184.4	1148.4	1119.6	1121.1
30°	1205.7	1145.0	1075.7	1017.7	965.6	951.1	920.1
32.5°	1074.0	983.0	901.9	847.8	803.1	790.9	763.9
35°	850.8	762.4	679.0	628.9	609.1	581.4	581.1
37.5°	661.3	583.5	539.4	501.8	482.1	465.3	463.6
40°	556.4	495.7	462.4	435.3	415.9	403.3	400.4
42.5°	483.0	433.9	402.7	386.0	371.0	364.5	359.7
45°	394.4	361.4	339.7	324.5	317.5	312.6	310.0
47.5°	329.9	307.8	293.0	282.9	277.2	272.1	273.5
50°	294.8	276.7	265.8	256.2	251.9	248.3	248.7
52.5°	266.6	250.3	241.5	234.6	229.3	226.7	225.4
55°	226.3	216.0	207.1	202.2	199.1	195.5	194.6
57.5°	193.0	185.0	177.8	172.2	171.5	168.0	168.4
60°	170.8	164.2	158.3	155.3	153.0	150.1	151.0
62.5°	152.7	147.1	141.6	139.2	136.9	134.7	135.2
65°	125.0	119.7	116.4	115.1	114.1	113.1	112.1
67.5°	99.6	96.3	94.3	91.4	89.5	89.1	88.1
70°	83.8	79.5	75.9	72.2	71.2	70.9	71.2
72.5°	67.2	64.4	63.5	61.6	61.5	60.6	61.2
75°	50.5	49.5	48.8	47.5	47.5	47.5	47.5
77.5°	37.2	36.6	36.2	35.9	35.6	35.1	35.1
80°	29.0	28.7	28.1	28.1	27.7	28.1	27.7
82.5°	21.9	21.9	21.2	21.2	20.8	20.7	20.8
85°	11.2	10.8	11.5	10.8	11.2	10.6	11.2
87.5°	7.8	8.0	7.8	7.9	7.7	8.4	7.8
90°	23.2	24.0	24.6	25.0	25.4	25.7	26.2
92.5°	35.4	36.0	36.2	35.9	35.7	35.5	35.2
95°	66.9	67.7	68.0	68.0	68.0	68.0	68.0
97.5°	103.7	104.6	105.0	104.9	104.9	104.8	104.7
100°	130.0	130.5	131.0	131.4	131.8	132.2	132.6
102.5°	160.7	161.3	161.5	161.4	161.4	161.3	161.2
105°	205.9	205.9	206.0	206.5	206.8	207.2	207.6
107.5°	256.1	256.7	256.8	256.7	256.4	256.1	255.9
110°	289.3	290.1	290.2	289.9	289.5	289.1	288.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	322.5	323.5	323.9	323.8	323.7	323.7	323.6
115°	372.2	372.4	372.4	372.2	372.0	371.8	371.6
117.5°	422.8	422.8	422.4	421.9	421.4	420.8	420.3
120°	456.5	456.3	456.0	455.6	455.2	454.9	454.4
122.5°	490.4	490.0	489.4	488.9	488.4	487.8	487.2
125°	541.1	540.4	539.6	538.8	538.0	537.3	536.5
127.5°	591.2	590.0	589.0	588.1	587.3	586.3	585.5
130°	624.8	624.1	623.0	621.6	620.3	619.0	617.6
132.5°	657.2	656.3	655.3	654.2	653.2	652.1	651.1
135°	705.9	705.2	704.6	704.2	703.9	703.4	703.1
137.5°	753.5	752.7	751.9	751.1	750.4	749.7	749.0
140°	785.3	785.1	784.4	783.0	781.7	780.3	778.9
142.5°	814.7	814.5	813.8	812.8	811.8	810.7	809.7
145°	857.7	857.6	857.0	856.3	855.5	854.7	853.9
147.5°	898.6	898.6	898.0	896.9	895.7	894.6	893.4
150°	923.8	923.8	923.2	922.0	920.8	919.7	918.5
152.5°	947.0	947.4	947.0	946.0	944.9	943.9	943.0
155°	981.0	981.8	981.5	980.2	978.8	977.5	976.1
157.5°	1010.0	1010.7	1010.6	1009.5	1008.5	1007.4	1006.3
160°	1027.9	1028.8	1028.9	1028.1	1027.3	1026.6	1025.8
162.5°	1044.6	1045.6	1045.4	1044.2	1042.9	1041.7	1040.4
165°	1065.9	1067.1	1067.0	1065.7	1064.3	1062.9	1061.6
167.5°	1083.1	1084.3	1084.3	1083.1	1081.9	1080.7	1079.5
170°	1092.7	1094.1	1094.1	1092.7	1091.3	1089.9	1088.6
172.5°	1099.9	1101.1	1101.0	1099.7	1098.3	1096.9	1095.6
175°	1107.8	1109.0	1108.9	1107.5	1106.1	1104.8	1103.5
177.5°	1111.1	1112.1	1112.0	1110.9	1109.8	1108.7	1107.7
180°	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4

(END OF REPORT)