

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: P332295-927

Luminaire Tested: **S123RDIP-S560D1195U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332295-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIP-S560D1195U927-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5014.6 lumens
Efficiency: N/A
Efficacy: 101.5 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

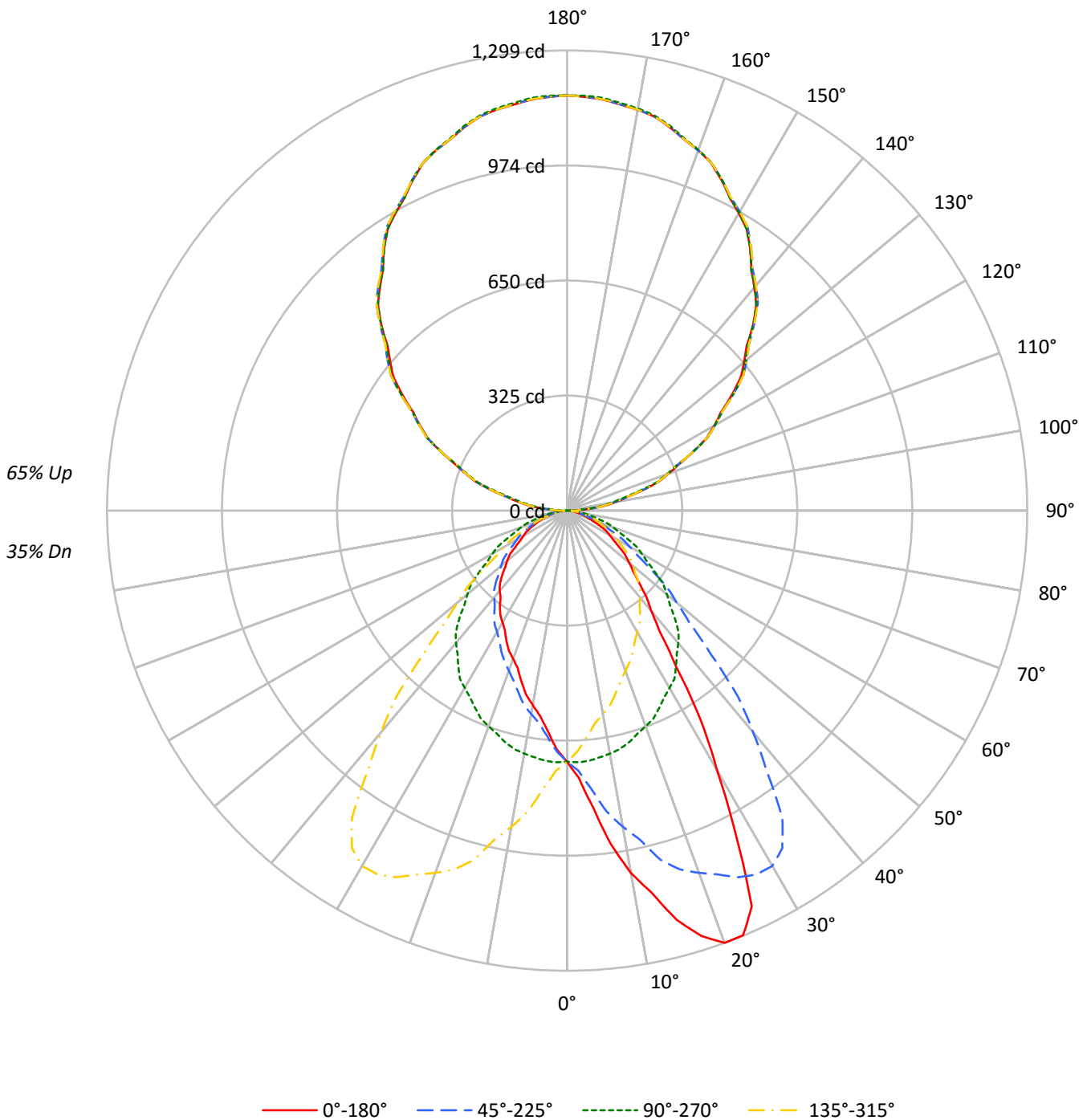
Input Watts (W): 49.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	94	94	94	75	75	75	58	58	58	43	43	43	35
1	95	91	87	84	86	82	79	76	66	64	62	52	50	49	38	37	37	30
2	87	80	74	69	78	72	68	63	59	55	52	46	44	42	34	33	32	26
3	79	70	63	58	72	64	58	53	52	48	44	41	38	36	31	29	27	23
4	73	62	55	49	66	57	50	45	46	42	38	37	33	31	28	26	24	20
5	67	56	48	42	60	51	44	39	42	37	33	33	30	27	25	23	21	17
6	62	50	42	37	56	46	39	34	38	33	29	30	26	24	23	20	19	15
7	57	45	38	32	51	41	35	30	34	29	25	27	24	21	21	18	17	14
8	53	41	34	29	48	38	31	27	31	26	23	25	21	19	19	17	15	13
9	49	37	30	25	45	34	28	24	28	24	20	23	19	17	18	15	14	11
10	46	34	27	23	42	32	25	21	26	22	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7629	7629	7629	7629
5°	9095	7662	6748	7662
10°	11355	7618	6096	7618
15°	13329	7540	5558	7540
20°	14875	7424	5102	7424
25°	14638	7301	4822	7301
30°	10521	7188	4533	7188
35°	7025	7041	4346	7041
40°	5176	6864	4154	6864
45°	4341	6555	3962	6555
50°	3831	6149	3699	6149
55°	3359	5684	3337	5684
60°	2990	5240	3057	5240
65°	2626	4760	2845	4760
70°	2061	4337	2596	4337
75°	1817	3785	2371	3785
80°	1581	3217	2331	3217
85°	1272	2581	2470	2581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.7	1.4
10°-20°	217.8	4.3
20°-30°	342.1	6.8
30°-40°	356.9	7.1
40°-50°	305.5	6.1
50°-60°	232.8	4.6
60°-70°	149.2	3.0
70°-80°	71.8	1.4
80°-90°	22.5	0.4
90°-100°	76.3	1.5
100°-110°	228.5	4.6
110°-120°	388.6	7.7
120°-130°	511.1	10.2
130°-140°	574.5	11.5
140°-150°	564.7	11.3
150°-160°	475.4	9.5
160°-170°	316.5	6.3
170°-180°	110.8	2.2
0°-30°	629.6	12.6
0°-40°	986.5	19.7
0°-60°	1524.8	30.4
0°-90°	1768.2	35.3
90°-120°	693.4	13.8
90°-150°	2343.7	46.7
90°-180°	3246.0	64.7
0°-180°	5014.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	709	709	709	709	709	
5°	842	709	624	709	842	87
15°	1196	677	499	677	1196	339
25°	1232	615	406	615	1232	530
35°	535	536	331	536	535	351
45°	285	431	260	431	285	224
55°	179	303	178	303	179	162
65°	103	187	112	187	103	101
75°	44	91	57	91	44	47
85°	10	21	20	21	10	13
90°	28	1	28	1	28	14
95°	72	54	72	54	72	74
105°	219	207	219	207	219	232
115°	392	391	392	391	392	388
125°	566	572	566	572	566	506
135°	742	743	742	743	742	570
145°	901	901	901	901	901	562
155°	1030	1032	1030	1032	1030	474
165°	1120	1124	1120	1124	1120	316
175°	1164	1169	1164	1169	1164	111
180°	1172	1172	1172	1172	1172	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8
2.5°	754.9	755.9	752.7	752.3	748.6	747.7	747.7	742.5	739.3	735.2	732.8
5°	841.7	846.5	844.1	838.7	829.6	827.4	821.7	812.5	802.2	789.5	783.5
7.5°	950.1	956.7	954.1	945.7	936.2	928.4	912.2	897.1	875.9	857.4	841.5
10°	1038.9	1031.9	1026.5	1018.3	1009.5	995.2	978.3	954.9	927.9	906.7	883.0
12.5°	1105.4	1104.3	1097.3	1088.9	1076.5	1063.0	1042.0	1013.6	982.2	951.5	924.5
15°	1196.1	1197.9	1193.3	1184.6	1167.0	1143.0	1111.4	1099.6	1054.7	1021.3	987.9
17.5°	1258.9	1258.5	1257.8	1245.6	1227.7	1210.6	1181.4	1150.2	1109.6	1062.6	1017.6
20°	1298.6	1295.6	1296.2	1282.5	1269.2	1249.5	1221.0	1175.8	1142.4	1088.1	1041.6
22.5°	1297.7	1297.0	1299.3	1294.7	1285.0	1269.9	1247.4	1209.3	1166.6	1111.8	1059.6
25°	1232.5	1230.1	1244.4	1248.2	1263.8	1266.5	1259.8	1238.9	1198.5	1142.1	1077.4
27.5°	1031.5	1030.2	1056.6	1089.7	1131.8	1164.4	1196.0	1211.2	1198.5	1158.1	1093.4
30°	846.5	875.0	888.4	936.4	989.8	1053.4	1109.3	1162.4	1175.4	1157.9	1104.8
32.5°	702.8	727.7	738.9	780.1	829.8	904.4	988.2	1063.3	1116.5	1130.0	1098.0
35°	534.6	535.0	560.4	578.6	624.7	701.5	782.8	883.5	983.7	1059.5	1067.5
37.5°	426.6	428.1	443.5	461.7	496.3	536.9	608.5	692.2	807.9	924.3	992.6
40°	368.4	371.1	382.6	400.5	425.4	456.1	511.9	590.7	687.2	816.8	922.7
42.5°	331.0	335.4	341.4	355.1	370.5	399.3	444.4	505.3	593.0	715.6	837.7
45°	285.2	287.6	292.2	298.6	312.5	332.6	362.9	403.9	476.7	575.3	697.6
47.5°	251.6	250.3	255.1	260.3	269.6	283.2	303.6	337.0	389.0	468.0	571.8
50°	228.8	228.5	231.8	235.8	244.5	254.6	271.2	296.4	337.7	403.2	498.2
52.5°	207.4	208.6	211.0	215.9	222.2	230.3	245.3	263.4	298.9	355.5	434.6
55°	179.0	179.9	183.2	186.0	190.5	198.8	208.2	223.3	247.6	287.0	352.3
57.5°	155.0	154.6	157.8	158.4	163.6	170.2	177.5	189.3	206.9	236.2	280.2
60°	138.9	138.1	140.8	142.9	145.6	151.1	157.2	168.7	182.7	204.2	241.9
62.5°	124.4	124.0	126.0	128.1	130.3	135.3	140.5	149.2	160.3	178.5	208.3
65°	103.1	104.1	105.0	105.9	107.1	110.1	115.0	121.0	128.7	141.4	163.0
67.5°	81.0	82.0	82.3	84.1	86.7	88.6	91.7	97.0	102.3	113.0	125.3
70°	65.5	65.2	65.5	66.5	69.8	73.1	77.1	81.0	84.4	92.0	102.3
72.5°	56.3	55.8	56.6	56.7	58.4	59.3	61.8	65.5	69.8	74.9	82.4
75°	43.7	43.7	43.7	43.7	44.9	45.6	46.4	47.4	48.9	51.3	56.7
77.5°	32.3	32.3	32.8	33.0	33.4	33.7	34.2	35.2	35.6	37.0	39.3
80°	25.5	25.8	25.5	25.8	25.8	26.4	26.7	27.6	27.9	29.5	30.3
82.5°	19.2	19.0	19.2	19.5	19.5	20.1	20.1	20.8	20.9	21.6	22.6
85°	10.3	9.7	10.3	10.0	10.6	10.0	10.3	10.9	10.9	11.2	12.4
87.5°	7.9	8.3	7.8	7.9	7.8	8.0	7.8	7.7	8.0	7.6	7.3
90°	27.6	27.2	26.8	26.4	26.0	25.3	24.6	23.8	22.9	22.1	19.4
92.5°	37.2	37.4	37.7	37.9	38.2	37.9	37.3	36.7	36.0	35.3	33.8
95°	71.8	71.8	71.8	71.8	71.8	71.4	70.6	69.7	68.9	68.1	66.5
97.5°	110.4	110.5	110.6	110.7	110.7	110.4	109.4	108.4	107.5	106.5	105.4
100°	139.9	139.5	139.1	138.7	138.2	137.8	137.1	136.5	135.9	135.3	134.3
102.5°	170.1	170.2	170.2	170.3	170.4	170.2	169.5	168.9	168.3	167.7	166.4
105°	219.0	218.6	218.2	217.9	217.5	217.2	217.2	217.2	217.2	217.2	215.4
107.5°	270.1	270.3	270.5	270.8	271.0	270.8	270.2	269.5	268.9	268.2	267.4
110°	304.7	305.1	305.5	305.9	306.3	306.1	305.3	304.4	303.6	302.9	302.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	341.5	341.6	341.7	341.7	341.8	341.4	340.4	339.4	338.4	337.4	337.3
115°	392.1	392.3	392.5	392.7	392.9	392.9	392.7	392.5	392.3	392.1	392.5
117.5°	443.5	444.0	444.6	445.2	445.8	446.1	446.1	446.2	446.2	446.2	446.8
120°	479.5	480.0	480.4	480.8	481.2	481.5	481.7	481.9	482.1	482.3	483.3
122.5°	514.1	514.7	515.3	515.9	516.4	517.0	517.5	518.1	518.6	519.1	519.7
125°	566.1	566.9	567.7	568.5	569.3	570.1	571.0	571.8	572.6	573.5	573.9
127.5°	617.8	618.7	619.6	620.6	621.5	622.6	623.8	624.9	626.1	627.2	627.6
130°	651.6	653.1	654.5	655.9	657.4	658.5	659.3	660.1	661.0	661.8	662.4
132.5°	687.0	688.1	689.2	690.3	691.4	692.4	693.5	694.4	695.4	696.4	696.8
135°	741.9	742.3	742.7	743.1	743.5	744.1	744.9	745.8	746.6	747.3	747.6
137.5°	790.3	791.1	791.9	792.6	793.4	794.2	795.0	795.9	796.8	797.6	797.1
140°	822.0	823.4	824.8	826.2	827.7	828.5	828.7	828.9	829.1	829.3	829.1
142.5°	854.4	855.5	856.5	857.6	858.7	859.4	859.6	859.8	860.0	860.2	859.8
145°	901.1	901.9	902.7	903.6	904.4	904.9	905.1	905.3	905.5	905.7	905.1
147.5°	942.7	943.9	945.2	946.3	947.6	948.2	948.2	948.2	948.2	948.2	947.6
150°	969.2	970.4	971.7	972.9	974.1	974.7	974.7	974.7	974.7	974.7	974.3
152.5°	995.0	996.0	997.1	998.1	999.3	999.6	999.3	998.9	998.6	998.3	998.1
155°	1029.9	1031.4	1032.8	1034.3	1035.7	1036.0	1035.1	1034.4	1033.6	1032.7	1032.5
157.5°	1061.8	1063.0	1064.1	1065.2	1066.4	1066.5	1065.6	1064.8	1064.0	1063.1	1063.0
160°	1082.4	1083.2	1084.0	1084.9	1085.7	1085.6	1084.6	1083.5	1082.5	1081.5	1081.5
162.5°	1097.9	1099.2	1100.5	1101.8	1103.1	1103.3	1102.2	1101.2	1100.2	1099.2	1099.0
165°	1120.1	1121.6	1123.0	1124.4	1125.8	1126.0	1124.7	1123.6	1122.3	1121.1	1121.1
167.5°	1139.1	1140.3	1141.6	1142.9	1144.1	1144.1	1142.9	1141.6	1140.3	1139.1	1138.9
170°	1148.7	1150.1	1151.5	1153.0	1154.4	1154.4	1153.0	1151.5	1150.1	1148.7	1148.7
172.5°	1156.0	1157.5	1158.9	1160.3	1161.8	1161.9	1160.6	1159.4	1158.1	1156.8	1156.8
175°	1164.3	1165.8	1167.2	1168.6	1170.1	1170.1	1168.9	1167.7	1166.5	1165.2	1165.2
177.5°	1168.8	1169.9	1171.0	1172.2	1173.3	1173.4	1172.4	1171.5	1170.4	1169.5	1169.5
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8
2.5°	731.8	731.1	727.7	723.8	718.7	715.3	712.6	711.2	706.9	701.5	697.8
5°	777.1	767.9	758.3	746.4	735.5	724.3	717.3	709.1	699.1	687.9	679.9
7.5°	825.5	807.6	788.4	768.6	748.9	731.3	715.8	702.5	686.6	670.5	659.2
10°	862.6	836.5	809.5	781.9	756.7	733.1	714.9	697.0	677.9	659.3	645.4
12.5°	896.4	862.1	830.9	796.9	764.8	736.5	710.3	689.2	666.2	646.5	630.6
15°	939.1	903.9	866.3	814.7	771.9	736.1	704.3	676.6	648.7	624.5	609.0
17.5°	979.0	926.1	875.5	832.4	776.9	732.1	693.2	660.2	629.6	603.9	584.8
20°	995.5	944.3	889.3	834.4	779.8	729.8	684.5	648.1	616.2	587.1	569.5
22.5°	1005.4	947.4	889.5	830.5	772.5	720.5	675.8	635.7	601.2	573.5	551.8
25°	1017.1	947.8	884.2	825.9	766.8	710.3	657.2	614.7	577.4	548.0	524.9
27.5°	1024.7	943.3	868.0	803.3	743.2	687.1	638.4	593.3	555.5	524.3	499.6
30°	1026.2	939.7	855.6	785.5	724.5	673.0	621.4	578.3	538.3	505.2	482.1
32.5°	1028.1	930.7	838.9	764.5	702.0	650.9	604.2	563.0	522.0	489.4	465.9
35°	1020.1	925.7	813.5	727.9	665.4	615.9	573.8	535.8	495.5	463.9	440.0
37.5°	985.6	906.0	787.1	686.7	621.4	575.6	541.2	508.2	471.2	437.1	414.5
40°	950.9	886.6	766.8	661.8	593.5	546.4	515.5	488.5	452.7	420.8	396.6
42.5°	899.2	860.2	747.3	635.6	561.9	516.6	490.5	465.2	433.8	401.4	378.6
45°	804.4	809.5	707.6	593.8	518.2	472.7	448.1	430.6	402.7	376.0	352.6
47.5°	685.4	733.6	660.9	549.3	472.2	429.4	408.0	392.6	373.8	347.6	326.3
50°	607.8	676.6	623.5	519.4	443.3	400.8	379.6	367.2	350.8	330.1	309.8
52.5°	536.1	610.1	578.4	486.2	412.0	373.1	352.4	342.1	329.2	309.7	291.4
55°	437.2	512.1	504.9	436.0	365.0	330.1	314.3	302.9	294.0	279.5	264.9
57.5°	353.6	424.7	428.5	380.2	323.6	289.1	275.6	266.9	261.1	250.2	236.7
60°	301.0	366.2	379.0	342.5	294.0	263.6	250.3	243.4	238.8	230.0	219.7
62.5°	257.3	312.8	327.3	301.0	265.6	237.2	226.8	220.1	217.0	209.4	200.3
65°	196.9	243.0	257.0	242.4	223.9	201.1	192.7	186.9	184.2	179.9	173.3
67.5°	148.1	181.7	197.0	186.7	180.1	165.6	160.3	157.2	154.7	151.9	146.2
70°	118.9	143.9	159.6	156.9	151.4	143.9	139.9	137.8	135.3	132.9	128.0
72.5°	95.6	112.7	127.5	129.0	124.5	122.9	119.5	118.6	117.1	114.2	111.5
75°	63.5	75.3	85.6	89.5	91.3	92.8	91.3	91.0	90.7	88.3	86.7
77.5°	41.6	47.9	54.4	61.2	64.0	66.1	66.5	67.7	66.9	65.6	64.9
80°	31.8	33.4	37.9	43.7	48.2	50.1	51.3	51.9	51.6	51.3	50.1
82.5°	23.1	24.4	26.5	30.6	34.4	37.5	38.2	38.0	38.7	38.9	37.9
85°	12.4	12.8	13.4	13.9	16.1	19.4	20.4	20.9	21.5	21.5	19.7
87.5°	7.2	6.5	6.4	5.9	6.3	6.1	7.1	7.9	8.6	8.1	8.5
90°	16.8	14.1	11.5	9.1	7.1	5.0	2.9	1.0	2.9	5.0	7.1
92.5°	32.3	30.8	29.3	27.8	26.5	25.0	23.7	22.3	23.7	25.0	26.5
95°	64.8	63.2	61.6	60.0	58.6	57.2	55.8	54.3	55.8	57.2	58.6
97.5°	104.3	103.1	101.9	100.7	99.7	98.6	97.5	96.5	97.5	98.6	99.7
100°	133.2	132.2	131.2	130.1	128.9	127.6	126.4	125.2	126.4	127.6	128.9
102.5°	165.0	163.7	162.3	161.3	160.5	159.8	159.1	158.3	159.1	159.8	160.5
105°	213.6	211.7	209.8	208.7	208.3	207.9	207.5	207.1	207.5	207.9	208.3
107.5°	266.7	266.0	265.3	264.7	264.5	264.3	264.0	263.8	264.0	264.3	264.5
110°	302.0	301.6	301.2	300.8	300.4	299.9	299.5	299.1	299.5	299.9	300.4



TEST NUMBER: P332295-927

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	337.2	337.2	337.1	336.9	336.7	336.4	336.2	336.0	336.2	336.4	336.7
115°	392.9	393.3	393.7	393.6	393.0	392.4	391.8	391.2	391.8	392.4	393.0
117.5°	447.3	447.8	448.4	448.4	448.0	447.6	447.2	446.8	447.2	447.6	448.0
120°	484.3	485.4	486.4	486.3	485.1	483.9	482.6	481.4	482.6	483.9	485.1
122.5°	520.1	520.7	521.3	521.1	520.1	519.3	518.3	517.5	518.3	519.3	520.1
125°	574.3	574.6	575.0	575.0	574.3	573.7	573.1	572.5	573.1	573.7	574.3
127.5°	628.0	628.5	629.0	628.5	627.2	625.9	624.6	623.3	624.6	625.9	627.2
130°	663.0	663.6	664.2	663.7	662.1	660.4	658.8	657.2	658.8	660.4	662.1
132.5°	697.3	697.8	698.2	697.6	695.9	694.3	692.7	691.0	692.7	694.3	695.9
135°	747.8	748.0	748.2	747.7	746.5	745.2	744.0	742.8	744.0	745.2	746.5
137.5°	796.5	796.1	795.5	794.7	793.7	792.7	791.6	790.7	791.6	792.7	793.7
140°	828.9	828.7	828.5	827.8	826.9	825.9	824.8	823.8	824.8	825.9	826.9
142.5°	859.5	859.1	858.7	858.1	857.1	856.0	855.0	854.0	855.0	856.0	857.1
145°	904.4	903.9	903.2	902.7	902.3	901.9	901.5	901.1	901.5	901.9	902.3
147.5°	947.1	946.5	945.9	945.3	944.5	943.8	943.1	942.3	943.1	943.8	944.5
150°	973.9	973.5	973.1	972.7	972.2	971.8	971.5	971.1	971.5	971.8	972.2
152.5°	997.8	997.5	997.3	996.9	996.3	995.8	995.2	994.6	995.2	995.8	996.3
155°	1032.3	1032.1	1031.9	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8
157.5°	1062.8	1062.6	1062.4	1062.5	1062.7	1063.0	1063.2	1063.4	1063.2	1063.0	1062.7
160°	1081.5	1081.5	1081.5	1081.7	1082.1	1082.5	1082.9	1083.3	1082.9	1082.5	1082.1
162.5°	1098.8	1098.7	1098.5	1098.8	1099.3	1099.9	1100.4	1101.0	1100.4	1099.9	1099.3
165°	1121.1	1121.1	1121.1	1121.4	1122.0	1122.6	1123.2	1123.9	1123.2	1122.6	1122.0
167.5°	1138.8	1138.6	1138.4	1138.8	1139.6	1140.4	1141.2	1142.1	1141.2	1140.4	1139.6
170°	1148.7	1148.7	1148.7	1149.1	1149.9	1150.7	1151.5	1152.4	1151.5	1150.7	1149.9
172.5°	1156.8	1156.8	1156.8	1157.2	1158.0	1158.8	1159.7	1160.5	1159.7	1158.8	1158.0
175°	1165.2	1165.2	1165.2	1165.7	1166.5	1167.3	1168.2	1168.9	1168.2	1167.3	1166.5
177.5°	1169.5	1169.5	1169.5	1169.8	1170.4	1171.2	1171.8	1172.4	1171.8	1171.2	1170.4
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8
2.5°	696.6	693.5	691.3	686.4	683.3	679.9	676.5	678.7	678.4	678.2	678.2
5°	673.3	666.3	660.0	651.7	646.6	640.2	635.3	634.8	636.0	631.7	629.3
7.5°	650.1	640.6	631.5	622.5	612.9	605.2	600.5	598.3	595.2	592.6	589.8
10°	633.8	622.7	613.8	602.6	592.3	583.2	577.4	573.5	571.3	569.2	565.3
12.5°	617.1	606.1	594.8	582.2	572.4	561.8	557.5	553.1	549.0	546.6	541.2
15°	592.6	578.3	566.5	553.1	542.2	531.9	525.9	517.1	515.8	512.8	507.3
17.5°	568.0	552.5	536.2	526.3	514.0	503.3	494.0	491.1	482.4	479.1	474.4
20°	548.6	534.3	521.9	508.8	490.9	480.9	473.6	469.7	462.7	458.4	455.4
22.5°	531.9	517.3	503.0	487.7	472.9	461.8	456.4	450.3	446.5	440.5	437.2
25°	507.9	492.2	474.8	458.4	447.8	439.3	430.9	425.4	419.9	417.2	411.1
27.5°	480.1	463.7	447.5	435.1	422.0	413.6	405.9	401.1	394.5	389.9	386.6
30°	464.9	445.4	431.5	420.3	403.5	395.7	389.9	383.8	379.0	374.1	370.7
32.5°	447.1	429.4	416.1	402.3	389.4	380.9	373.4	368.0	363.9	359.3	356.0
35°	419.3	404.5	390.8	376.8	367.4	358.6	349.8	345.3	341.4	337.1	334.1
37.5°	394.2	380.3	367.3	354.1	342.5	335.3	328.2	324.7	319.4	316.6	313.5
40°	378.7	365.0	351.1	338.3	326.1	320.8	314.3	309.2	304.4	302.2	298.9
42.5°	361.7	348.0	336.3	322.5	312.6	305.1	299.3	293.7	290.0	286.9	285.0
45°	336.5	324.3	312.8	299.2	289.8	283.4	276.7	271.6	268.2	266.1	262.8
47.5°	312.0	299.9	288.2	276.3	267.2	259.9	253.3	249.6	245.3	242.6	240.3
50°	294.3	283.4	270.9	260.0	251.0	243.7	238.2	233.6	229.7	226.3	224.8
52.5°	278.1	266.4	255.6	245.5	235.9	227.6	222.7	217.9	214.9	211.0	209.3
55°	251.2	240.0	230.9	220.9	211.5	204.5	198.4	194.2	191.2	186.9	184.5
57.5°	226.0	215.9	205.1	196.5	186.7	180.9	175.8	170.0	166.4	163.0	160.7
60°	209.1	197.5	188.1	179.9	171.4	163.8	159.3	154.7	150.8	147.4	145.4
62.5°	191.3	181.3	172.4	163.4	155.7	149.0	143.8	139.9	136.5	134.4	132.2
65°	164.1	156.3	147.2	139.9	132.6	127.8	123.5	120.2	117.7	116.2	114.4
67.5°	139.2	131.5	123.6	116.4	111.5	107.8	105.0	102.2	101.0	99.0	97.8
70°	122.9	115.0	108.1	102.6	97.7	95.0	93.2	91.0	89.8	87.4	86.2
72.5°	105.2	99.5	94.4	89.9	86.0	83.6	81.3	78.7	76.7	74.1	72.8
75°	82.9	77.7	73.8	70.7	68.3	65.0	61.6	58.9	58.0	57.0	56.7
77.5°	61.3	58.1	55.2	52.7	49.7	47.2	46.5	45.9	45.7	45.2	45.2
80°	48.2	45.2	43.1	40.1	38.3	38.3	38.3	37.6	37.9	37.9	37.9
82.5°	35.9	33.0	31.9	30.8	30.5	30.7	30.7	30.8	30.7	31.1	30.9
85°	18.5	18.8	19.4	19.1	19.4	19.4	20.0	19.7	20.0	19.4	20.0
87.5°	8.6	9.8	10.6	11.3	12.1	12.4	12.8	13.0	13.4	13.5	13.7
90°	9.1	11.5	14.1	16.8	19.4	22.1	22.9	23.8	24.6	25.3	26.0
92.5°	27.8	29.3	30.8	32.3	33.8	35.3	36.0	36.7	37.3	37.9	38.2
95°	60.0	61.6	63.2	64.8	66.5	68.1	68.9	69.7	70.6	71.4	71.8
97.5°	100.7	101.9	103.1	104.3	105.4	106.5	107.5	108.4	109.4	110.4	110.7
100°	130.1	131.2	132.2	133.2	134.3	135.3	135.9	136.5	137.1	137.8	138.2
102.5°	161.3	162.3	163.7	165.0	166.4	167.7	168.3	168.9	169.5	170.2	170.4
105°	208.7	209.8	211.7	213.6	215.4	217.2	217.2	217.2	217.2	217.2	217.5
107.5°	264.7	265.3	266.0	266.7	267.4	268.2	268.9	269.5	270.2	270.8	271.0
110°	300.8	301.2	301.6	302.0	302.4	302.9	303.6	304.4	305.3	306.1	306.3



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	336.9	337.1	337.2	337.2	337.3	337.4	338.4	339.4	340.4	341.4	341.8
115°	393.6	393.7	393.3	392.9	392.5	392.1	392.3	392.5	392.7	392.9	392.9
117.5°	448.4	448.4	447.8	447.3	446.8	446.2	446.2	446.2	446.1	446.1	445.8
120°	486.3	486.4	485.4	484.3	483.3	482.3	482.1	481.9	481.7	481.5	481.2
122.5°	521.1	521.3	520.7	520.1	519.7	519.1	518.6	518.1	517.5	517.0	516.4
125°	575.0	575.0	574.6	574.3	573.9	573.5	572.6	571.8	571.0	570.1	569.3
127.5°	628.5	629.0	628.5	628.0	627.6	627.2	626.1	624.9	623.8	622.6	621.5
130°	663.7	664.2	663.6	663.0	662.4	661.8	661.0	660.1	659.3	658.5	657.4
132.5°	697.6	698.2	697.8	697.3	696.8	696.4	695.4	694.4	693.5	692.4	691.4
135°	747.7	748.2	748.0	747.8	747.6	747.3	746.6	745.8	744.9	744.1	743.5
137.5°	794.7	795.5	796.1	796.5	797.1	797.6	796.8	795.9	795.0	794.2	793.4
140°	827.8	828.5	828.7	828.9	829.1	829.3	829.1	828.9	828.7	828.5	827.7
142.5°	858.1	858.7	859.1	859.5	859.8	860.2	860.0	859.8	859.6	859.4	858.7
145°	902.7	903.2	903.9	904.4	905.1	905.7	905.5	905.3	905.1	904.9	904.4
147.5°	945.3	945.9	946.5	947.1	947.6	948.2	948.2	948.2	948.2	948.2	947.6
150°	972.7	973.1	973.5	973.9	974.3	974.7	974.7	974.7	974.7	974.7	974.1
152.5°	996.9	997.3	997.5	997.8	998.1	998.3	998.6	998.9	999.3	999.6	999.3
155°	1031.8	1031.9	1032.1	1032.3	1032.5	1032.7	1033.6	1034.4	1035.1	1036.0	1035.7
157.5°	1062.5	1062.4	1062.6	1062.8	1063.0	1063.1	1064.0	1064.8	1065.6	1066.5	1066.4
160°	1081.7	1081.5	1081.5	1081.5	1081.5	1081.5	1082.5	1083.5	1084.6	1085.6	1085.7
162.5°	1098.8	1098.5	1098.7	1098.8	1099.0	1099.2	1100.2	1101.2	1102.2	1103.3	1103.1
165°	1121.4	1121.1	1121.1	1121.1	1121.1	1121.1	1122.3	1123.6	1124.7	1126.0	1125.8
167.5°	1138.8	1138.4	1138.6	1138.8	1138.9	1139.1	1140.3	1141.6	1142.9	1144.1	1144.1
170°	1149.1	1148.7	1148.7	1148.7	1148.7	1148.7	1150.1	1151.5	1153.0	1154.4	1154.4
172.5°	1157.2	1156.8	1156.8	1156.8	1156.8	1156.8	1158.1	1159.4	1160.6	1161.9	1161.8
175°	1165.7	1165.2	1165.2	1165.2	1165.2	1165.2	1166.5	1167.7	1168.9	1170.1	1170.1
177.5°	1169.8	1169.5	1169.5	1169.5	1169.5	1169.5	1170.4	1171.5	1172.4	1173.4	1173.3
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7



TEST NUMBER: P332295-927

CATALOG NUMBER: S123RDIP-S560D1195U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8
2.5°	675.3	675.0	675.3	674.3	675.3	675.0	675.3	678.2	678.2	678.4	678.7
5°	628.4	628.0	627.2	624.5	627.2	628.0	628.4	629.3	631.7	636.0	634.8
7.5°	587.4	587.0	584.3	584.4	584.3	587.0	587.4	589.8	592.6	595.2	598.3
10°	563.2	563.5	559.8	557.7	559.8	563.5	563.2	565.3	569.2	571.3	573.5
12.5°	539.6	538.2	535.3	532.9	535.3	538.2	539.6	541.2	546.6	549.0	553.1
15°	508.5	505.5	498.2	498.8	498.2	505.5	508.5	507.3	512.8	515.8	517.1
17.5°	471.9	469.7	469.6	465.3	469.6	469.7	471.9	474.4	479.1	482.4	491.1
20°	450.6	449.1	449.6	445.4	449.6	449.1	450.6	455.4	458.4	462.7	469.7
22.5°	433.8	432.3	429.8	428.4	429.8	432.3	433.8	437.2	440.5	446.5	450.3
25°	409.3	406.9	404.5	406.0	404.5	406.9	409.3	411.1	417.2	419.9	425.4
27.5°	384.8	382.9	380.6	380.2	380.6	382.9	384.8	386.6	389.9	394.5	401.1
30°	369.2	367.4	366.2	364.7	366.2	367.4	369.2	370.7	374.1	379.0	383.8
32.5°	353.5	353.2	350.9	350.6	350.9	353.2	353.5	356.0	359.3	363.9	368.0
35°	332.9	331.1	330.4	330.7	330.4	331.1	332.9	334.1	337.1	341.4	345.3
37.5°	313.2	310.9	309.7	308.6	309.7	310.9	313.2	313.5	316.6	319.4	324.7
40°	299.2	296.8	296.1	295.6	296.1	296.8	299.2	298.9	302.2	304.4	309.2
42.5°	283.4	282.4	282.1	281.0	282.1	282.4	283.4	285.0	286.9	290.0	293.7
45°	261.8	261.6	259.8	260.3	259.8	261.6	261.8	262.8	266.1	268.2	271.6
47.5°	239.2	237.8	236.5	237.4	236.5	237.8	239.2	240.3	242.6	245.3	249.6
50°	223.6	223.0	220.3	220.9	220.3	223.0	223.6	224.8	226.3	229.7	233.6
52.5°	208.1	205.8	204.8	204.4	204.8	205.8	208.1	209.3	211.0	214.9	217.9
55°	182.4	179.6	178.4	177.8	178.4	179.6	182.4	184.5	186.9	191.2	194.2
57.5°	157.1	156.4	155.4	156.1	155.4	156.4	157.1	160.7	163.0	166.4	170.0
60°	142.3	142.3	142.3	142.0	142.3	142.3	142.3	145.4	147.4	150.8	154.7
62.5°	130.9	130.2	129.9	130.3	129.9	130.2	130.9	132.2	134.4	136.5	139.9
65°	113.4	113.2	111.9	111.7	111.9	113.2	113.4	114.4	116.2	117.7	120.2
67.5°	97.0	95.9	95.6	95.1	95.6	95.9	97.0	97.8	99.0	101.0	102.2
70°	84.7	84.1	82.2	82.5	82.2	84.1	84.7	86.2	87.4	89.8	91.0
72.5°	71.3	70.7	70.3	69.9	70.3	70.7	71.3	72.8	74.1	76.7	78.7
75°	56.4	56.2	55.8	57.0	55.8	56.2	56.4	56.7	57.0	58.0	58.9
77.5°	45.2	45.2	45.4	44.9	45.4	45.2	45.2	45.2	45.2	45.7	45.9
80°	37.9	37.9	37.6	37.6	37.6	37.9	37.9	37.9	37.9	37.9	37.6
82.5°	30.4	30.7	30.8	30.3	30.8	30.7	30.4	30.9	31.1	30.7	30.8
85°	20.0	19.7	20.4	20.0	20.4	19.7	20.0	20.0	19.4	20.0	19.7
87.5°	14.3	13.9	13.9	14.3	13.9	13.9	14.3	13.7	13.5	13.4	13.0
90°	26.4	26.8	27.2	27.6	27.2	26.8	26.4	26.0	25.3	24.6	23.8
92.5°	37.9	37.7	37.4	37.2	37.4	37.7	37.9	38.2	37.9	37.3	36.7
95°	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.4	70.6	69.7
97.5°	110.7	110.6	110.5	110.4	110.5	110.6	110.7	110.7	110.4	109.4	108.4
100°	138.7	139.1	139.5	139.9	139.5	139.1	138.7	138.2	137.8	137.1	136.5
102.5°	170.3	170.2	170.2	170.1	170.2	170.2	170.3	170.4	170.2	169.5	168.9
105°	217.9	218.2	218.6	219.0	218.6	218.2	217.9	217.5	217.2	217.2	217.2
107.5°	270.8	270.5	270.3	270.1	270.3	270.5	270.8	271.0	270.8	270.2	269.5
110°	305.9	305.5	305.1	304.7	305.1	305.5	305.9	306.3	306.1	305.3	304.4



TEST NUMBER: P332295-927

CATALOG NUMBER: S123RDIP-S560D1195U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	341.7	341.7	341.6	341.5	341.6	341.7	341.7	341.8	341.4	340.4	339.4
115°	392.7	392.5	392.3	392.1	392.3	392.5	392.7	392.9	392.9	392.7	392.5
117.5°	445.2	444.6	444.0	443.5	444.0	444.6	445.2	445.8	446.1	446.1	446.2
120°	480.8	480.4	480.0	479.5	480.0	480.4	480.8	481.2	481.5	481.7	481.9
122.5°	515.9	515.3	514.7	514.1	514.7	515.3	515.9	516.4	517.0	517.5	518.1
125°	568.5	567.7	566.9	566.1	566.9	567.7	568.5	569.3	570.1	571.0	571.8
127.5°	620.6	619.6	618.7	617.8	618.7	619.6	620.6	621.5	622.6	623.8	624.9
130°	655.9	654.5	653.1	651.6	653.1	654.5	655.9	657.4	658.5	659.3	660.1
132.5°	690.3	689.2	688.1	687.0	688.1	689.2	690.3	691.4	692.4	693.5	694.4
135°	743.1	742.7	742.3	741.9	742.3	742.7	743.1	743.5	744.1	744.9	745.8
137.5°	792.6	791.9	791.1	790.3	791.1	791.9	792.6	793.4	794.2	795.0	795.9
140°	826.2	824.8	823.4	822.0	823.4	824.8	826.2	827.7	828.5	828.7	828.9
142.5°	857.6	856.5	855.5	854.4	855.5	856.5	857.6	858.7	859.4	859.6	859.8
145°	903.6	902.7	901.9	901.1	901.9	902.7	903.6	904.4	904.9	905.1	905.3
147.5°	946.3	945.2	943.9	942.7	943.9	945.2	946.3	947.6	948.2	948.2	948.2
150°	972.9	971.7	970.4	969.2	970.4	971.7	972.9	974.1	974.7	974.7	974.7
152.5°	998.1	997.1	996.0	995.0	996.0	997.1	998.1	999.3	999.6	999.3	998.9
155°	1034.3	1032.8	1031.4	1029.9	1031.4	1032.8	1034.3	1035.7	1036.0	1035.1	1034.4
157.5°	1065.2	1064.1	1063.0	1061.8	1063.0	1064.1	1065.2	1066.4	1066.5	1065.6	1064.8
160°	1084.9	1084.0	1083.2	1082.4	1083.2	1084.0	1084.9	1085.7	1085.6	1084.6	1083.5
162.5°	1101.8	1100.5	1099.2	1097.9	1099.2	1100.5	1101.8	1103.1	1103.3	1102.2	1101.2
165°	1124.4	1123.0	1121.6	1120.1	1121.6	1123.0	1124.4	1125.8	1126.0	1124.7	1123.6
167.5°	1142.9	1141.6	1140.3	1139.1	1140.3	1141.6	1142.9	1144.1	1144.1	1142.9	1141.6
170°	1153.0	1151.5	1150.1	1148.7	1150.1	1151.5	1153.0	1154.4	1154.4	1153.0	1151.5
172.5°	1160.3	1158.9	1157.5	1156.0	1157.5	1158.9	1160.3	1161.8	1161.9	1160.6	1159.4
175°	1168.6	1167.2	1165.8	1164.3	1165.8	1167.2	1168.6	1170.1	1170.1	1168.9	1167.7
177.5°	1172.2	1171.0	1169.9	1168.8	1169.9	1171.0	1172.2	1173.3	1173.4	1172.4	1171.5
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7



TEST NUMBER: P332295-927

CATALOG NUMBER: S123RDIP-S560D1195U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8
2.5°	676.5	679.9	683.3	686.4	691.3	693.5	696.6	697.8	701.5	706.9	711.2
5°	635.3	640.2	646.6	651.7	660.0	666.3	673.3	679.9	687.9	699.1	709.1
7.5°	600.5	605.2	612.9	622.5	631.5	640.6	650.1	659.2	670.5	686.6	702.5
10°	577.4	583.2	592.3	602.6	613.8	622.7	633.8	645.4	659.3	677.9	697.0
12.5°	557.5	561.8	572.4	582.2	594.8	606.1	617.1	630.6	646.5	666.2	689.2
15°	525.9	531.9	542.2	553.1	566.5	578.3	592.6	609.0	624.5	648.7	676.6
17.5°	494.0	503.3	514.0	526.3	536.2	552.5	568.0	584.8	603.9	629.6	660.2
20°	473.6	480.9	490.9	508.8	521.9	534.3	548.6	569.5	587.1	616.2	648.1
22.5°	456.4	461.8	472.9	487.7	503.0	517.3	531.9	551.8	573.5	601.2	635.7
25°	430.9	439.3	447.8	458.4	474.8	492.2	507.9	524.9	548.0	577.4	614.7
27.5°	405.9	413.6	422.0	435.1	447.5	463.7	480.1	499.6	524.3	555.5	593.3
30°	389.9	395.7	403.5	420.3	431.5	445.4	464.9	482.1	505.2	538.3	578.3
32.5°	373.4	380.9	389.4	402.3	416.1	429.4	447.1	465.9	489.4	522.0	563.0
35°	349.8	358.6	367.4	376.8	390.8	404.5	419.3	440.0	463.9	495.5	535.8
37.5°	328.2	335.3	342.5	354.1	367.3	380.3	394.2	414.5	437.1	471.2	508.2
40°	314.3	320.8	326.1	338.3	351.1	365.0	378.7	396.6	420.8	452.7	488.5
42.5°	299.3	305.1	312.6	322.5	336.3	348.0	361.7	378.6	401.4	433.8	465.2
45°	276.7	283.4	289.8	299.2	312.8	324.3	336.5	352.6	376.0	402.7	430.6
47.5°	253.3	259.9	267.2	276.3	288.2	299.9	312.0	326.3	347.6	373.8	392.6
50°	238.2	243.7	251.0	260.0	270.9	283.4	294.3	309.8	330.1	350.8	367.2
52.5°	222.7	227.6	235.9	245.5	255.6	266.4	278.1	291.4	309.7	329.2	342.1
55°	198.4	204.5	211.5	220.9	230.9	240.0	251.2	264.9	279.5	294.0	302.9
57.5°	175.8	180.9	186.7	196.5	205.1	215.9	226.0	236.7	250.2	261.1	266.9
60°	159.3	163.8	171.4	179.9	188.1	197.5	209.1	219.7	230.0	238.8	243.4
62.5°	143.8	149.0	155.7	163.4	172.4	181.3	191.3	200.3	209.4	217.0	220.1
65°	123.5	127.8	132.6	139.9	147.2	156.3	164.1	173.3	179.9	184.2	186.9
67.5°	105.0	107.8	111.5	116.4	123.6	131.5	139.2	146.2	151.9	154.7	157.2
70°	93.2	95.0	97.7	102.6	108.1	115.0	122.9	128.0	132.9	135.3	137.8
72.5°	81.3	83.6	86.0	89.9	94.4	99.5	105.2	111.5	114.2	117.1	118.6
75°	61.6	65.0	68.3	70.7	73.8	77.7	82.9	86.7	88.3	90.7	91.0
77.5°	46.5	47.2	49.7	52.7	55.2	58.1	61.3	64.9	65.6	66.9	67.7
80°	38.3	38.3	38.3	40.1	43.1	45.2	48.2	50.1	51.3	51.6	51.9
82.5°	30.7	30.7	30.5	30.8	31.9	33.0	35.9	37.9	38.9	38.7	38.0
85°	20.0	19.4	19.4	19.1	19.4	18.8	18.5	19.7	21.5	21.5	20.9
87.5°	12.8	12.4	12.1	11.3	10.6	9.8	8.6	8.5	8.1	8.6	7.9
90°	22.9	22.1	19.4	16.8	14.1	11.5	9.1	7.1	5.0	2.9	1.0
92.5°	36.0	35.3	33.8	32.3	30.8	29.3	27.8	26.5	25.0	23.7	22.3
95°	68.9	68.1	66.5	64.8	63.2	61.6	60.0	58.6	57.2	55.8	54.3
97.5°	107.5	106.5	105.4	104.3	103.1	101.9	100.7	99.7	98.6	97.5	96.5
100°	135.9	135.3	134.3	133.2	132.2	131.2	130.1	128.9	127.6	126.4	125.2
102.5°	168.3	167.7	166.4	165.0	163.7	162.3	161.3	160.5	159.8	159.1	158.3
105°	217.2	217.2	215.4	213.6	211.7	209.8	208.7	208.3	207.9	207.5	207.1
107.5°	268.9	268.2	267.4	266.7	266.0	265.3	264.7	264.5	264.3	264.0	263.8
110°	303.6	302.9	302.4	302.0	301.6	301.2	300.8	300.4	299.9	299.5	299.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	338.4	337.4	337.3	337.2	337.2	337.1	336.9	336.7	336.4	336.2	336.0
115°	392.3	392.1	392.5	392.9	393.3	393.7	393.6	393.0	392.4	391.8	391.2
117.5°	446.2	446.2	446.8	447.3	447.8	448.4	448.4	448.0	447.6	447.2	446.8
120°	482.1	482.3	483.3	484.3	485.4	486.4	486.3	485.1	483.9	482.6	481.4
122.5°	518.6	519.1	519.7	520.1	520.7	521.3	521.1	520.1	519.3	518.3	517.5
125°	572.6	573.5	573.9	574.3	574.6	575.0	575.0	574.3	573.7	573.1	572.5
127.5°	626.1	627.2	627.6	628.0	628.5	629.0	628.5	627.2	625.9	624.6	623.3
130°	661.0	661.8	662.4	663.0	663.6	664.2	663.7	662.1	660.4	658.8	657.2
132.5°	695.4	696.4	696.8	697.3	697.8	698.2	697.6	695.9	694.3	692.7	691.0
135°	746.6	747.3	747.6	747.8	748.0	748.2	747.7	746.5	745.2	744.0	742.8
137.5°	796.8	797.6	797.1	796.5	796.1	795.5	794.7	793.7	792.7	791.6	790.7
140°	829.1	829.3	829.1	828.9	828.7	828.5	827.8	826.9	825.9	824.8	823.8
142.5°	860.0	860.2	859.8	859.5	859.1	858.7	858.1	857.1	856.0	855.0	854.0
145°	905.5	905.7	905.1	904.4	903.9	903.2	902.7	902.3	901.9	901.5	901.1
147.5°	948.2	948.2	947.6	947.1	946.5	945.9	945.3	944.5	943.8	943.1	942.3
150°	974.7	974.7	974.3	973.9	973.5	973.1	972.7	972.2	971.8	971.5	971.1
152.5°	998.6	998.3	998.1	997.8	997.5	997.3	996.9	996.3	995.8	995.2	994.6
155°	1033.6	1032.7	1032.5	1032.3	1032.1	1031.9	1031.8	1031.8	1031.8	1031.8	1031.8
157.5°	1064.0	1063.1	1063.0	1062.8	1062.6	1062.4	1062.5	1062.7	1063.0	1063.2	1063.4
160°	1082.5	1081.5	1081.5	1081.5	1081.5	1081.5	1081.7	1082.1	1082.5	1082.9	1083.3
162.5°	1100.2	1099.2	1099.0	1098.8	1098.7	1098.5	1098.8	1099.3	1099.9	1100.4	1101.0
165°	1122.3	1121.1	1121.1	1121.1	1121.1	1121.1	1121.4	1122.0	1122.6	1123.2	1123.9
167.5°	1140.3	1139.1	1138.9	1138.8	1138.6	1138.4	1138.8	1139.6	1140.4	1141.2	1142.1
170°	1150.1	1148.7	1148.7	1148.7	1148.7	1148.7	1149.1	1149.9	1150.7	1151.5	1152.4
172.5°	1158.1	1156.8	1156.8	1156.8	1156.8	1156.8	1157.2	1158.0	1158.8	1159.7	1160.5
175°	1166.5	1165.2	1165.2	1165.2	1165.2	1165.2	1165.7	1166.5	1167.3	1168.2	1168.9
177.5°	1170.4	1169.5	1169.5	1169.5	1169.5	1169.5	1169.8	1170.4	1171.2	1171.8	1172.4
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8	708.8
2.5°	712.6	715.3	718.7	723.8	727.7	731.1	731.8	732.8	735.2	739.3	742.5
5°	717.3	724.3	735.5	746.4	758.3	767.9	777.1	783.5	789.5	802.2	812.5
7.5°	715.8	731.3	748.9	768.6	788.4	807.6	825.5	841.5	857.4	875.9	897.1
10°	714.9	733.1	756.7	781.9	809.5	836.5	862.6	883.0	906.7	927.9	954.9
12.5°	710.3	736.5	764.8	796.9	830.9	862.1	896.4	924.5	951.5	982.2	1013.6
15°	704.3	736.1	771.9	814.7	866.3	903.9	939.1	987.9	1021.3	1054.7	1099.6
17.5°	693.2	732.1	776.9	832.4	875.5	926.1	979.0	1017.6	1062.6	1109.6	1150.2
20°	684.5	729.8	779.8	834.4	889.3	944.3	995.5	1041.6	1088.1	1142.4	1175.8
22.5°	675.8	720.5	772.5	830.5	889.5	947.4	1005.4	1059.6	1111.8	1166.6	1209.3
25°	657.2	710.3	766.8	825.9	884.2	947.8	1017.1	1077.4	1142.1	1198.5	1238.9
27.5°	638.4	687.1	743.2	803.3	868.0	943.3	1024.7	1093.4	1158.1	1198.5	1211.2
30°	621.4	673.0	724.5	785.5	855.6	939.7	1026.2	1104.8	1157.9	1175.4	1162.4
32.5°	604.2	650.9	702.0	764.5	838.9	930.7	1028.1	1098.0	1130.0	1116.5	1063.3
35°	573.8	615.9	665.4	727.9	813.5	925.7	1020.1	1067.5	1059.5	983.7	883.5
37.5°	541.2	575.6	621.4	686.7	787.1	906.0	985.6	992.6	924.3	807.9	692.2
40°	515.5	546.4	593.5	661.8	766.8	886.6	950.9	922.7	816.8	687.2	590.7
42.5°	490.5	516.6	561.9	635.6	747.3	860.2	899.2	837.7	715.6	593.0	505.3
45°	448.1	472.7	518.2	593.8	707.6	809.5	804.4	697.6	575.3	476.7	403.9
47.5°	408.0	429.4	472.2	549.3	660.9	733.6	685.4	571.8	468.0	389.0	337.0
50°	379.6	400.8	443.3	519.4	623.5	676.6	607.8	498.2	403.2	337.7	296.4
52.5°	352.4	373.1	412.0	486.2	578.4	610.1	536.1	434.6	355.5	298.9	263.4
55°	314.3	330.1	365.0	436.0	504.9	512.1	437.2	352.3	287.0	247.6	223.3
57.5°	275.6	289.1	323.6	380.2	428.5	424.7	353.6	280.2	236.2	206.9	189.3
60°	250.3	263.6	294.0	342.5	379.0	366.2	301.0	241.9	204.2	182.7	168.7
62.5°	226.8	237.2	265.6	301.0	327.3	312.8	257.3	208.3	178.5	160.3	149.2
65°	192.7	201.1	223.9	242.4	257.0	243.0	196.9	163.0	141.4	128.7	121.0
67.5°	160.3	165.6	180.1	186.7	197.0	181.7	148.1	125.3	113.0	102.3	97.0
70°	139.9	143.9	151.4	156.9	159.6	143.9	118.9	102.3	92.0	84.4	81.0
72.5°	119.5	122.9	124.5	129.0	127.5	112.7	95.6	82.4	74.9	69.8	65.5
75°	91.3	92.8	91.3	89.5	85.6	75.3	63.5	56.7	51.3	48.9	47.4
77.5°	66.5	66.1	64.0	61.2	54.4	47.9	41.6	39.3	37.0	35.6	35.2
80°	51.3	50.1	48.2	43.7	37.9	33.4	31.8	30.3	29.5	27.9	27.6
82.5°	38.2	37.5	34.4	30.6	26.5	24.4	23.1	22.6	21.6	20.9	20.8
85°	20.4	19.4	16.1	13.9	13.4	12.8	12.4	12.4	11.2	10.9	10.9
87.5°	7.1	6.1	6.3	5.9	6.4	6.5	7.2	7.3	7.6	8.0	7.7
90°	2.9	5.0	7.1	9.1	11.5	14.1	16.8	19.4	22.1	22.9	23.8
92.5°	23.7	25.0	26.5	27.8	29.3	30.8	32.3	33.8	35.3	36.0	36.7
95°	55.8	57.2	58.6	60.0	61.6	63.2	64.8	66.5	68.1	68.9	69.7
97.5°	97.5	98.6	99.7	100.7	101.9	103.1	104.3	105.4	106.5	107.5	108.4
100°	126.4	127.6	128.9	130.1	131.2	132.2	133.2	134.3	135.3	135.9	136.5
102.5°	159.1	159.8	160.5	161.3	162.3	163.7	165.0	166.4	167.7	168.3	168.9
105°	207.5	207.9	208.3	208.7	209.8	211.7	213.6	215.4	217.2	217.2	217.2
107.5°	264.0	264.3	264.5	264.7	265.3	266.0	266.7	267.4	268.2	268.9	269.5
110°	299.5	299.9	300.4	300.8	301.2	301.6	302.0	302.4	302.9	303.6	304.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	336.2	336.4	336.7	336.9	337.1	337.2	337.2	337.3	337.4	338.4	339.4
115°	391.8	392.4	393.0	393.6	393.7	393.3	392.9	392.5	392.1	392.3	392.5
117.5°	447.2	447.6	448.0	448.4	448.4	447.8	447.3	446.8	446.2	446.2	446.2
120°	482.6	483.9	485.1	486.3	486.4	485.4	484.3	483.3	482.3	482.1	481.9
122.5°	518.3	519.3	520.1	521.1	521.3	520.7	520.1	519.7	519.1	518.6	518.1
125°	573.1	573.7	574.3	575.0	575.0	574.6	574.3	573.9	573.5	572.6	571.8
127.5°	624.6	625.9	627.2	628.5	629.0	628.5	628.0	627.6	627.2	626.1	624.9
130°	658.8	660.4	662.1	663.7	664.2	663.6	663.0	662.4	661.8	661.0	660.1
132.5°	692.7	694.3	695.9	697.6	698.2	697.8	697.3	696.8	696.4	695.4	694.4
135°	744.0	745.2	746.5	747.7	748.2	748.0	747.8	747.6	747.3	746.6	745.8
137.5°	791.6	792.7	793.7	794.7	795.5	796.1	796.5	797.1	797.6	796.8	795.9
140°	824.8	825.9	826.9	827.8	828.5	828.7	828.9	829.1	829.3	829.1	828.9
142.5°	855.0	856.0	857.1	858.1	858.7	859.1	859.5	859.8	860.2	860.0	859.8
145°	901.5	901.9	902.3	902.7	903.2	903.9	904.4	905.1	905.7	905.5	905.3
147.5°	943.1	943.8	944.5	945.3	945.9	946.5	947.1	947.6	948.2	948.2	948.2
150°	971.5	971.8	972.2	972.7	973.1	973.5	973.9	974.3	974.7	974.7	974.7
152.5°	995.2	995.8	996.3	996.9	997.3	997.5	997.8	998.1	998.3	998.6	998.9
155°	1031.8	1031.8	1031.8	1031.8	1031.9	1032.1	1032.3	1032.5	1032.7	1033.6	1034.4
157.5°	1063.2	1063.0	1062.7	1062.5	1062.4	1062.6	1062.8	1063.0	1063.1	1064.0	1064.8
160°	1082.9	1082.5	1082.1	1081.7	1081.5	1081.5	1081.5	1081.5	1081.5	1082.5	1083.5
162.5°	1100.4	1099.9	1099.3	1098.8	1098.5	1098.7	1098.8	1099.0	1099.2	1100.2	1101.2
165°	1123.2	1122.6	1122.0	1121.4	1121.1	1121.1	1121.1	1121.1	1121.1	1122.3	1123.6
167.5°	1141.2	1140.4	1139.6	1138.8	1138.4	1138.6	1138.8	1138.9	1139.1	1140.3	1141.6
170°	1151.5	1150.7	1149.9	1149.1	1148.7	1148.7	1148.7	1148.7	1148.7	1150.1	1151.5
172.5°	1159.7	1158.8	1158.0	1157.2	1156.8	1156.8	1156.8	1156.8	1156.8	1158.1	1159.4
175°	1168.2	1167.3	1166.5	1165.7	1165.2	1165.2	1165.2	1165.2	1165.2	1166.5	1167.7
177.5°	1171.8	1171.2	1170.4	1169.8	1169.5	1169.5	1169.5	1169.5	1169.5	1170.4	1171.5
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	708.8	708.8	708.8	708.8	708.8	708.8	708.8
2.5°	747.7	747.7	748.6	752.3	752.7	755.9	754.9
5°	821.7	827.4	829.6	838.7	844.1	846.5	841.7
7.5°	912.2	928.4	936.2	945.7	954.1	956.7	950.1
10°	978.3	995.2	1009.5	1018.3	1026.5	1031.9	1038.9
12.5°	1042.0	1063.0	1076.5	1088.9	1097.3	1104.3	1105.4
15°	1111.4	1143.0	1167.0	1184.6	1193.3	1197.9	1196.1
17.5°	1181.4	1210.6	1227.7	1245.6	1257.8	1258.5	1258.9
20°	1221.0	1249.5	1269.2	1282.5	1296.2	1295.6	1298.6
22.5°	1247.4	1269.9	1285.0	1294.7	1299.3	1297.0	1297.7
25°	1259.8	1266.5	1263.8	1248.2	1244.4	1230.1	1232.5
27.5°	1196.0	1164.4	1131.8	1089.7	1056.6	1030.2	1031.5
30°	1109.3	1053.4	989.8	936.4	888.4	875.0	846.5
32.5°	988.2	904.4	829.8	780.1	738.9	727.7	702.8
35°	782.8	701.5	624.7	578.6	560.4	535.0	534.6
37.5°	608.5	536.9	496.3	461.7	443.5	428.1	426.6
40°	511.9	456.1	425.4	400.5	382.6	371.1	368.4
42.5°	444.4	399.3	370.5	355.1	341.4	335.4	331.0
45°	362.9	332.6	312.5	298.6	292.2	287.6	285.2
47.5°	303.6	283.2	269.6	260.3	255.1	250.3	251.6
50°	271.2	254.6	244.5	235.8	231.8	228.5	228.8
52.5°	245.3	230.3	222.2	215.9	211.0	208.6	207.4
55°	208.2	198.8	190.5	186.0	183.2	179.9	179.0
57.5°	177.5	170.2	163.6	158.4	157.8	154.6	155.0
60°	157.2	151.1	145.6	142.9	140.8	138.1	138.9
62.5°	140.5	135.3	130.3	128.1	126.0	124.0	124.4
65°	115.0	110.1	107.1	105.9	105.0	104.1	103.1
67.5°	91.7	88.6	86.7	84.1	82.3	82.0	81.0
70°	77.1	73.1	69.8	66.5	65.5	65.2	65.5
72.5°	61.8	59.3	58.4	56.7	56.6	55.8	56.3
75°	46.4	45.6	44.9	43.7	43.7	43.7	43.7
77.5°	34.2	33.7	33.4	33.0	32.8	32.3	32.3
80°	26.7	26.4	25.8	25.8	25.5	25.8	25.5
82.5°	20.1	20.1	19.5	19.5	19.2	19.0	19.2
85°	10.3	10.0	10.6	10.0	10.3	9.7	10.3
87.5°	7.8	8.0	7.8	7.9	7.8	8.3	7.9
90°	24.6	25.3	26.0	26.4	26.8	27.2	27.6
92.5°	37.3	37.9	38.2	37.9	37.7	37.4	37.2
95°	70.6	71.4	71.8	71.8	71.8	71.8	71.8
97.5°	109.4	110.4	110.7	110.7	110.6	110.5	110.4
100°	137.1	137.8	138.2	138.7	139.1	139.5	139.9
102.5°	169.5	170.2	170.4	170.3	170.2	170.2	170.1
105°	217.2	217.2	217.5	217.9	218.2	218.6	219.0
107.5°	270.2	270.8	271.0	270.8	270.5	270.3	270.1
110°	305.3	306.1	306.3	305.9	305.5	305.1	304.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	340.4	341.4	341.8	341.7	341.7	341.6	341.5
115°	392.7	392.9	392.9	392.7	392.5	392.3	392.1
117.5°	446.1	446.1	445.8	445.2	444.6	444.0	443.5
120°	481.7	481.5	481.2	480.8	480.4	480.0	479.5
122.5°	517.5	517.0	516.4	515.9	515.3	514.7	514.1
125°	571.0	570.1	569.3	568.5	567.7	566.9	566.1
127.5°	623.8	622.6	621.5	620.6	619.6	618.7	617.8
130°	659.3	658.5	657.4	655.9	654.5	653.1	651.6
132.5°	693.5	692.4	691.4	690.3	689.2	688.1	687.0
135°	744.9	744.1	743.5	743.1	742.7	742.3	741.9
137.5°	795.0	794.2	793.4	792.6	791.9	791.1	790.3
140°	828.7	828.5	827.7	826.2	824.8	823.4	822.0
142.5°	859.6	859.4	858.7	857.6	856.5	855.5	854.4
145°	905.1	904.9	904.4	903.6	902.7	901.9	901.1
147.5°	948.2	948.2	947.6	946.3	945.2	943.9	942.7
150°	974.7	974.7	974.1	972.9	971.7	970.4	969.2
152.5°	999.3	999.6	999.3	998.1	997.1	996.0	995.0
155°	1035.1	1036.0	1035.7	1034.3	1032.8	1031.4	1029.9
157.5°	1065.6	1066.5	1066.4	1065.2	1064.1	1063.0	1061.8
160°	1084.6	1085.6	1085.7	1084.9	1084.0	1083.2	1082.4
162.5°	1102.2	1103.3	1103.1	1101.8	1100.5	1099.2	1097.9
165°	1124.7	1126.0	1125.8	1124.4	1123.0	1121.6	1120.1
167.5°	1142.9	1144.1	1144.1	1142.9	1141.6	1140.3	1139.1
170°	1153.0	1154.4	1154.4	1153.0	1151.5	1150.1	1148.7
172.5°	1160.6	1161.9	1161.8	1160.3	1158.9	1157.5	1156.0
175°	1168.9	1170.1	1170.1	1168.6	1167.2	1165.8	1164.3
177.5°	1172.4	1173.4	1173.3	1172.2	1171.0	1169.9	1168.8
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7

(END OF REPORT)