

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: P331937-930

Luminaire Tested: **S123DIP-S560D1025U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331937-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S560D1025U930-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1025 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5288.6 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

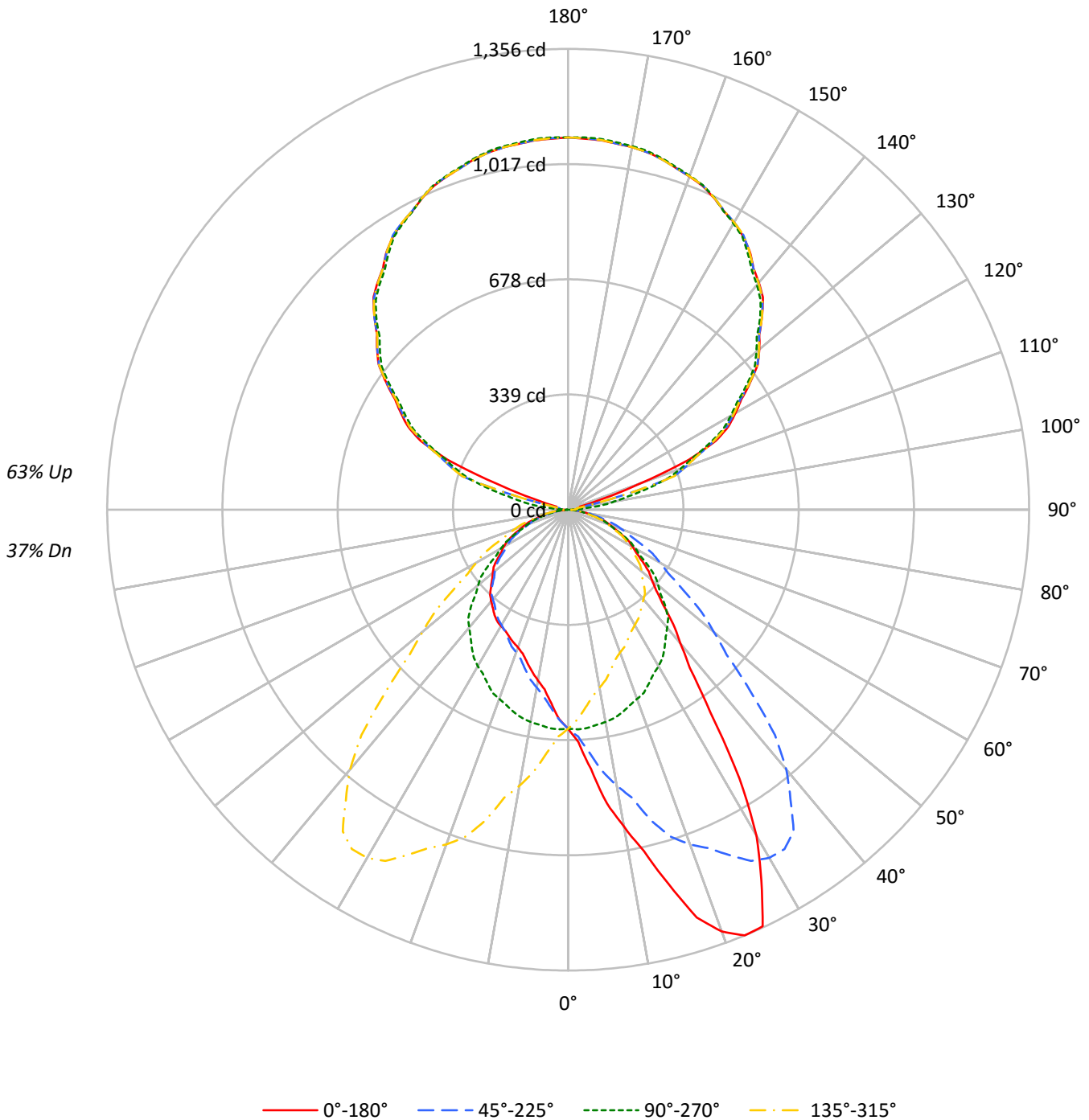
Input Watts (W): 44.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	91	87	84	86	83	79	77	67	65	63	52	51	50	39	38	38	31
2	87	80	74	69	78	72	67	63	59	55	52	46	44	42	35	33	32	27
3	79	70	63	57	71	64	58	53	52	48	44	41	38	36	31	29	27	23
4	72	62	54	49	65	57	50	45	46	41	38	37	33	31	28	25	24	20
5	66	55	47	42	60	50	44	38	41	36	32	33	29	26	25	23	21	17
6	61	49	42	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	45	37	31	51	41	34	29	34	29	25	27	23	20	21	18	16	13
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	16	14	12
9	49	37	30	25	44	34	27	23	28	23	20	23	19	16	18	15	13	11
10	45	34	27	22	41	31	25	20	26	21	18	21	17	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6937	6937	6937	6937
5°	8272	6967	6174	6967
10°	10355	6932	5576	6932
15°	12700	6876	5192	6876
20°	15131	6788	4943	6788
25°	16066	6683	4888	6683
30°	13770	6606	4913	6606
35°	9577	6495	4964	6495
40°	7213	6367	4949	6367
45°	5990	6174	4886	6174
50°	5365	5784	4843	5784
55°	5016	5362	4782	5362
60°	4706	4921	4732	4921
65°	4422	4485	4582	4485
70°	4148	3991	4362	3991
75°	3714	3493	4001	3493
80°	3248	2864	3446	2864
85°	2544	2087	2322	2087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.5	1.2
10°-20°	203.6	3.8
20°-30°	341.7	6.5
30°-40°	386.9	7.3
40°-50°	346.9	6.6
50°-60°	280.0	5.3
60°-70°	195.1	3.7
70°-80°	102.5	1.9
80°-90°	28.1	0.5
90°-100°	39.8	0.8
100°-110°	189.8	3.6
110°-120°	455.9	8.6
120°-130°	580.5	11.0
130°-140°	620.3	11.7
140°-150°	580.0	11.0
150°-160°	467.9	8.8
160°-170°	302.0	5.7
170°-180°	104.1	2.0
0°-30°	608.7	11.5
0°-40°	995.6	18.8
0°-60°	1622.5	30.7
0°-90°	1948.3	36.8
90°-120°	685.5	13.0
90°-150°	2466.4	46.6
90°-180°	3340.0	63.2
0°-180°	5288.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	644	644	644	644	644	
5°	766	645	571	645	766	79
15°	1140	617	466	617	1140	329
25°	1353	563	412	563	1353	593
35°	729	494	378	494	729	473
45°	394	406	321	406	394	311
55°	267	286	255	286	267	240
65°	174	176	180	176	174	173
75°	89	84	96	84	89	96
85°	21	17	19	17	21	25
90°	24	1	24	1	24	12
95°	31	50	31	50	31	26
105°	36	242	36	242	36	82
115°	478	455	478	455	478	442
125°	654	641	654	641	654	584
135°	806	798	806	798	806	622
145°	930	921	930	921	930	581
155°	1013	1015	1013	1015	1013	467
165°	1068	1070	1068	1070	1068	301
175°	1091	1095	1091	1095	1091	104
180°	1095	1095	1095	1095	1095	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	684.0	683.5	682.2	683.2	681.2	678.5	678.2	675.7	668.5	668.0	666.0
5°	765.6	763.1	762.9	762.5	758.1	752.2	740.9	740.0	725.0	717.5	708.5
7.5°	871.5	872.8	868.2	864.2	850.8	842.0	830.0	814.6	796.1	777.5	765.0
10°	947.4	957.7	944.9	936.1	928.1	912.7	895.0	872.8	850.6	824.7	805.0
12.5°	1028.8	1033.9	1031.4	1023.0	1010.5	987.2	955.6	931.2	910.8	867.6	850.2
15°	1139.7	1158.8	1146.6	1118.5	1119.2	1097.0	1055.7	1010.5	986.4	948.6	897.1
17.5°	1257.9	1260.3	1255.1	1231.7	1216.0	1185.6	1147.5	1104.2	1055.4	1009.7	955.0
20°	1320.9	1319.0	1308.1	1295.8	1269.0	1245.3	1203.7	1155.4	1092.9	1047.9	988.3
22.5°	1355.8	1352.7	1347.5	1337.3	1315.0	1289.5	1252.2	1199.3	1139.9	1077.9	1009.0
25°	1352.7	1356.7	1357.4	1354.5	1346.8	1331.5	1302.1	1260.0	1200.6	1121.0	1049.2
27.5°	1230.3	1236.0	1252.7	1267.5	1284.1	1300.9	1298.7	1277.7	1233.9	1165.1	1077.3
30°	1107.9	1095.4	1126.3	1165.3	1191.9	1238.7	1264.9	1266.5	1241.9	1182.8	1097.2
32.5°	938.0	951.8	965.4	1013.4	1071.5	1124.1	1176.2	1218.3	1223.1	1183.8	1109.0
35°	728.8	746.0	770.9	796.0	858.4	912.1	1003.9	1083.9	1147.5	1155.9	1110.0
37.5°	587.3	595.8	611.6	636.6	677.4	741.2	812.2	913.2	1005.5	1074.2	1077.2
40°	513.3	515.8	533.6	552.7	585.8	638.2	702.3	791.6	902.1	998.0	1038.0
42.5°	457.9	463.4	470.9	489.3	515.6	555.1	614.6	688.4	789.7	900.0	978.2
45°	393.5	399.7	404.4	416.5	435.3	461.8	503.4	570.8	647.9	761.9	867.2
47.5°	350.8	351.3	354.8	364.0	376.7	396.7	426.1	469.4	540.2	632.6	740.7
50°	320.4	325.4	326.6	333.8	343.8	358.5	382.9	419.6	477.8	559.0	658.3
52.5°	298.9	300.4	303.9	309.1	317.8	329.2	350.3	379.2	424.8	494.0	585.3
55°	267.3	267.3	270.8	274.8	279.8	290.1	304.1	325.4	360.0	413.8	489.3
57.5°	238.1	239.6	242.1	243.3	247.5	254.4	266.1	282.3	308.1	349.4	409.5
60°	218.6	221.4	221.1	223.6	227.3	232.6	242.6	255.8	278.8	311.9	362.6
62.5°	201.6	201.4	201.4	204.3	208.1	213.1	219.6	231.0	250.6	280.0	323.0
65°	173.6	173.0	175.2	177.1	178.3	182.1	187.0	197.1	210.2	232.0	265.4
67.5°	148.8	146.9	148.1	148.8	150.9	153.8	158.5	164.7	175.1	192.7	217.8
70°	131.8	130.2	129.9	130.5	132.4	134.6	138.0	144.0	153.6	167.7	186.1
72.5°	114.3	113.2	113.2	114.5	115.4	116.8	119.3	124.7	132.4	142.9	160.1
75°	89.3	89.3	89.3	89.6	90.6	91.8	93.7	96.4	102.4	109.9	121.5
77.5°	66.9	66.9	66.5	66.4	67.8	68.4	68.8	71.4	74.8	79.8	88.2
80°	52.4	50.9	51.5	52.4	53.1	53.4	54.3	55.0	57.8	60.6	66.5
82.5°	39.0	37.7	37.7	39.2	39.4	39.6	40.6	41.5	42.6	45.1	48.3
85°	20.6	20.6	21.0	21.0	21.2	21.0	21.9	22.2	22.2	23.7	25.6
87.5°	12.4	11.8	12.0	12.1	11.8	12.0	12.1	12.2	12.3	12.4	12.1
90°	24.4	24.1	23.7	23.3	23.0	22.4	21.7	21.0	20.2	19.6	17.2
92.5°	27.0	26.8	26.6	26.3	26.2	25.4	24.3	23.2	22.0	20.9	19.1
95°	30.9	30.9	30.9	30.9	30.9	30.3	29.0	27.7	26.5	25.2	23.2
97.5°	33.5	33.3	33.2	33.0	32.8	32.0	30.6	29.1	27.6	26.2	39.2
100°	34.2	34.0	33.8	33.7	33.4	32.6	31.2	29.8	28.3	26.8	55.0
102.5°	34.8	34.5	34.2	33.8	33.5	35.6	40.1	44.6	49.1	53.6	84.4
105°	35.8	35.5	35.1	34.7	34.3	50.2	82.2	114.2	146.2	178.2	194.5
107.5°	112.4	136.6	160.7	184.8	209.0	232.8	256.2	279.7	303.2	326.7	324.1
110°	223.8	249.6	275.5	301.3	327.3	343.2	349.1	355.1	361.0	367.0	365.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	383.9	389.4	394.8	400.3	405.8	408.5	408.4	408.2	408.1	408.1	406.0
115°	478.5	477.8	477.0	476.3	475.6	474.3	472.5	470.8	469.0	467.1	465.5
117.5°	531.6	531.4	531.2	531.2	531.0	530.2	528.7	527.3	525.9	524.4	523.6
120°	568.0	568.0	568.0	568.0	568.0	567.3	565.8	564.4	563.0	561.5	561.0
122.5°	603.8	603.6	603.6	603.4	603.2	602.7	601.7	600.6	599.7	598.6	597.9
125°	654.3	654.0	653.5	653.2	652.8	652.5	652.1	651.8	651.4	651.0	650.3
127.5°	702.8	703.1	703.5	703.8	704.3	704.1	703.5	703.0	702.4	701.8	700.9
130°	734.0	734.4	734.7	735.2	735.5	735.3	734.6	733.9	733.1	732.4	731.6
132.5°	762.7	763.2	763.7	764.2	764.7	764.6	763.9	763.1	762.5	761.7	761.2
135°	806.5	807.0	807.6	808.1	808.6	808.6	808.1	807.6	807.0	806.5	805.8
137.5°	847.7	848.0	848.4	848.7	849.1	848.8	848.0	847.1	846.2	845.4	845.0
140°	872.4	872.8	873.1	873.4	873.8	873.7	872.9	872.2	871.5	870.7	870.3
142.5°	895.2	895.7	896.2	896.7	897.2	897.2	896.6	896.0	895.4	894.9	894.3
145°	930.2	930.2	930.2	930.2	930.2	930.0	929.6	929.3	928.9	928.5	928.1
147.5°	956.2	957.0	957.9	958.7	959.5	959.8	959.4	959.0	958.7	958.3	958.0
150°	975.8	976.2	976.8	977.4	977.9	978.0	977.6	977.3	976.9	976.6	976.2
152.5°	991.3	992.2	993.0	993.8	994.7	994.7	994.1	993.4	992.8	992.1	992.0
155°	1013.2	1014.2	1015.4	1016.4	1017.5	1017.6	1016.7	1015.8	1014.9	1014.0	1013.8
157.5°	1031.6	1033.0	1034.4	1035.8	1037.2	1037.4	1036.2	1035.2	1034.1	1033.0	1033.2
160°	1043.3	1044.6	1045.8	1047.1	1048.3	1048.4	1047.3	1046.3	1045.2	1044.1	1044.2
162.5°	1054.3	1055.5	1056.5	1057.7	1058.8	1058.7	1057.5	1056.3	1055.1	1053.9	1054.0
165°	1067.7	1068.9	1070.2	1071.5	1072.8	1072.7	1071.2	1069.8	1068.3	1066.9	1067.1
167.5°	1077.3	1078.7	1080.2	1081.7	1083.0	1083.0	1081.7	1080.2	1078.7	1077.3	1077.3
170°	1083.1	1084.6	1086.1	1087.5	1088.9	1088.9	1087.5	1086.1	1084.6	1083.1	1083.1
172.5°	1086.4	1088.0	1089.6	1091.2	1092.7	1092.8	1091.4	1090.0	1088.5	1087.0	1086.9
175°	1091.3	1092.7	1094.2	1095.6	1097.1	1097.1	1095.9	1094.6	1093.4	1092.1	1091.9
177.5°	1092.7	1094.2	1095.7	1097.1	1098.5	1098.7	1097.6	1096.3	1095.2	1094.1	1093.9
180°	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	664.5	662.5	660.5	657.0	654.0	649.7	648.5	647.0	642.5	638.5	635.5
5°	705.1	697.6	686.6	676.6	668.5	657.6	651.3	644.8	635.4	627.0	620.1
7.5°	747.5	732.8	715.8	697.5	680.4	663.8	650.5	638.7	625.6	613.1	603.5
10°	781.3	760.0	736.3	710.7	688.8	667.6	649.8	634.2	617.3	602.7	590.4
12.5°	819.7	788.2	755.5	724.4	698.5	669.1	647.6	627.7	608.6	590.9	577.2
15°	865.3	825.3	786.6	743.8	704.4	667.6	642.0	617.0	594.8	576.7	559.2
17.5°	906.7	861.4	810.4	758.4	710.9	667.2	631.4	603.2	575.4	553.3	535.8
20°	930.2	878.6	820.9	766.9	714.4	665.7	626.4	592.6	562.7	539.2	519.6
22.5°	950.5	890.1	830.4	772.7	714.2	661.7	617.2	582.4	549.9	527.0	506.1
25°	971.4	899.3	839.4	771.6	706.3	652.0	602.0	562.7	530.2	503.4	481.8
27.5°	989.4	898.7	827.5	754.6	694.0	639.5	586.2	544.0	509.5	480.3	458.4
30°	1001.4	899.9	815.3	743.1	682.0	625.7	573.9	531.5	495.2	465.5	445.0
32.5°	1008.9	899.2	804.0	727.2	663.0	613.3	560.7	516.7	479.5	450.4	430.5
35°	1013.3	893.6	784.7	694.1	632.3	583.9	539.9	494.3	455.3	428.1	405.6
37.5°	1004.5	882.2	762.2	662.3	594.6	547.0	509.9	471.1	433.7	403.8	384.4
40°	990.8	874.7	744.7	639.8	568.6	522.7	491.2	453.1	416.2	387.8	369.7
42.5°	964.6	859.4	725.5	614.8	541.6	495.7	466.7	434.9	400.0	373.3	355.2
45°	900.6	826.2	696.7	577.4	501.8	454.4	428.8	405.6	374.1	348.1	332.6
47.5°	811.7	776.3	654.9	537.9	460.2	414.6	387.9	369.3	346.3	325.4	310.4
50°	750.1	735.4	626.7	510.9	432.4	387.8	362.2	345.4	328.8	307.9	294.2
52.5°	678.8	687.9	593.7	482.9	404.2	360.4	336.2	322.9	307.9	290.7	278.7
55°	578.6	611.4	536.8	435.9	362.2	320.4	297.6	285.7	277.0	264.2	253.9
57.5°	484.8	526.4	475.2	387.5	320.9	284.9	263.0	250.1	244.4	237.7	229.7
60°	429.0	470.3	431.2	355.1	293.2	258.9	239.5	228.6	223.0	218.3	211.4
62.5°	379.4	421.0	388.2	322.0	266.0	234.2	217.3	206.6	202.2	199.7	193.9
65°	311.0	346.9	325.1	270.8	227.0	198.9	183.6	176.1	172.0	171.1	167.4
67.5°	253.2	280.5	264.6	224.5	190.1	165.8	152.9	146.5	143.4	143.1	140.2
70°	215.2	240.8	228.6	192.3	162.7	143.7	132.4	126.8	124.9	124.6	123.0
72.5°	185.6	203.5	193.9	163.6	140.7	123.4	115.1	109.3	107.1	107.6	106.6
75°	137.4	150.8	145.2	124.3	105.8	94.6	87.7	84.0	82.1	83.1	81.8
77.5°	98.9	107.4	102.3	87.8	76.5	68.3	63.3	61.0	59.3	59.2	58.6
80°	74.6	79.7	76.8	68.1	58.7	51.9	47.8	46.2	45.2	45.0	44.7
82.5°	53.2	57.4	54.1	48.1	41.7	37.6	35.3	33.3	32.5	32.7	32.4
85°	26.8	28.5	27.1	23.4	21.0	19.1	17.8	16.9	16.2	16.6	15.9
87.5°	12.2	12.0	10.8	9.4	8.5	7.4	7.0	6.2	6.0	6.4	6.5
90°	14.8	12.5	10.1	8.1	6.3	4.4	2.6	0.8	2.6	4.4	6.3
92.5°	17.3	15.5	13.8	13.1	13.6	14.1	14.6	15.2	14.6	14.1	13.6
95°	21.3	19.2	17.3	20.0	27.4	34.8	42.2	49.7	42.2	34.8	27.4
97.5°	52.3	65.3	78.3	86.4	89.8	93.1	96.4	99.8	96.4	93.1	89.8
100°	83.2	111.5	139.7	152.0	148.4	144.8	141.1	137.5	141.1	144.8	148.4
102.5°	115.2	146.0	176.8	190.9	188.3	185.7	183.1	180.5	183.1	185.7	188.3
105°	210.8	227.1	243.3	250.5	248.5	246.5	244.5	242.5	244.5	246.5	248.5
107.5°	321.6	318.9	316.4	314.3	312.7	311.1	309.6	307.9	309.6	311.1	312.7
110°	363.1	361.0	359.1	357.3	355.9	354.4	353.0	351.6	353.0	354.4	355.9



TEST NUMBER: P331937-930

CATALOG NUMBER: S123DIP-S560D1025U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	404.1	402.1	400.1	398.4	397.1	395.8	394.5	393.2	394.5	395.8	397.1
115°	463.8	462.2	460.6	459.3	458.2	457.1	456.0	454.9	456.0	457.1	458.2
117.5°	522.8	521.9	521.1	520.0	518.7	517.3	516.0	514.6	516.0	517.3	518.7
120°	560.4	559.9	559.4	558.2	556.6	555.0	553.3	551.7	553.3	555.0	556.6
122.5°	597.3	596.6	595.9	594.8	593.5	592.2	590.8	589.5	590.8	592.2	593.5
125°	649.5	648.9	648.2	647.0	645.6	644.2	642.7	641.2	642.7	644.2	645.6
127.5°	700.1	699.2	698.3	697.2	695.7	694.3	692.8	691.4	692.8	694.3	695.7
130°	731.0	730.3	729.5	728.5	727.0	725.5	724.1	722.7	724.1	725.5	727.0
132.5°	760.5	759.9	759.4	758.4	756.9	755.5	754.1	752.6	754.1	755.5	756.9
135°	805.0	804.3	803.6	802.7	801.6	800.5	799.4	798.3	799.4	800.5	801.6
137.5°	844.6	844.2	843.8	842.9	841.6	840.2	838.8	837.4	838.8	840.2	841.6
140°	869.7	869.1	868.6	867.8	866.7	865.6	864.5	863.4	864.5	865.6	866.7
142.5°	893.7	893.2	892.7	891.9	890.8	889.7	888.6	887.5	888.6	889.7	890.8
145°	927.8	927.5	927.1	926.3	925.0	923.7	922.5	921.2	922.5	923.7	925.0
147.5°	957.6	957.2	956.8	956.3	955.4	954.6	953.8	952.9	953.8	954.6	955.4
150°	975.8	975.4	975.1	974.6	974.1	973.5	973.1	972.5	973.1	973.5	974.1
152.5°	991.7	991.5	991.3	991.1	990.8	990.6	990.3	990.0	990.3	990.6	990.8
155°	1013.6	1013.4	1013.3	1013.3	1013.7	1014.1	1014.4	1014.8	1014.4	1014.1	1013.7
157.5°	1033.4	1033.6	1033.7	1033.9	1033.9	1034.0	1034.0	1034.0	1034.0	1034.0	1033.9
160°	1044.5	1044.6	1044.8	1045.0	1045.2	1045.4	1045.5	1045.7	1045.5	1045.4	1045.2
162.5°	1054.2	1054.4	1054.6	1054.9	1055.4	1055.8	1056.3	1056.8	1056.3	1055.8	1055.4
165°	1067.2	1067.4	1067.6	1068.0	1068.5	1069.0	1069.6	1070.2	1069.6	1069.0	1068.5
167.5°	1077.3	1077.3	1077.3	1077.7	1078.4	1079.1	1079.9	1080.5	1079.9	1079.1	1078.4
170°	1083.1	1083.1	1083.1	1083.5	1084.3	1085.0	1085.7	1086.4	1085.7	1085.0	1084.3
172.5°	1086.8	1086.6	1086.5	1086.9	1087.7	1088.6	1089.5	1090.3	1089.5	1088.6	1087.7
175°	1091.8	1091.5	1091.4	1091.8	1092.7	1093.6	1094.5	1095.4	1094.5	1093.6	1092.7
177.5°	1093.8	1093.6	1093.5	1093.8	1094.5	1095.2	1095.9	1096.7	1095.9	1095.2	1094.5
180°	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4



TEST NUMBER: P331937-930

CATALOG NUMBER: S123DIP-S560D1025U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	633.7	632.0	629.5	625.7	622.7	618.0	618.0	618.7	618.7	618.5	618.0
5°	614.5	609.8	604.2	597.7	590.8	583.9	582.7	580.2	578.3	577.1	575.5
7.5°	594.2	586.0	577.7	568.6	560.2	553.3	548.5	544.5	541.8	539.2	537.1
10°	580.5	570.1	560.5	550.8	540.2	531.7	526.4	522.7	519.9	517.4	516.2
12.5°	564.3	552.4	541.8	532.6	521.0	512.3	507.2	505.5	502.1	496.9	494.2
15°	540.5	529.6	516.8	502.7	497.1	486.5	480.5	477.8	475.9	471.8	470.6
17.5°	520.2	505.9	491.5	481.0	470.6	462.0	458.7	455.2	452.7	449.4	448.4
20°	504.0	491.2	478.1	466.8	455.9	446.5	443.7	441.2	438.7	437.2	435.9
22.5°	487.5	474.7	463.8	453.3	441.6	435.5	432.4	429.7	428.0	426.9	425.7
25°	464.3	453.1	440.9	431.5	422.2	418.1	416.2	414.7	413.4	411.9	411.6
27.5°	443.6	431.4	421.5	412.7	406.0	402.6	400.8	400.1	400.3	400.9	401.2
30°	428.1	416.9	408.7	401.2	395.0	391.9	391.6	391.6	392.8	393.1	393.8
32.5°	413.8	404.6	396.5	389.2	384.5	382.4	383.6	383.6	384.6	385.4	386.5
35°	393.1	385.0	378.8	372.5	368.4	369.4	370.0	370.6	372.2	374.1	375.4
37.5°	373.3	366.3	359.8	354.9	353.0	354.7	356.2	357.5	359.4	360.8	362.0
40°	359.1	353.8	347.6	343.2	343.8	344.7	346.0	347.6	349.1	350.0	351.3
42.5°	345.8	340.3	335.6	331.9	332.8	334.0	334.8	335.6	337.4	339.1	339.8
45°	325.7	321.3	316.9	314.8	315.4	316.0	316.7	317.6	319.1	320.4	320.7
47.5°	303.0	299.9	297.0	294.9	295.9	295.6	296.4	298.5	299.0	299.7	301.4
50°	288.5	285.7	282.3	281.7	281.7	281.7	281.9	284.5	284.5	285.7	287.0
52.5°	272.6	270.8	268.6	267.4	266.9	266.9	268.2	269.5	269.9	271.7	273.0
55°	248.8	247.0	245.2	244.2	243.5	244.2	246.7	247.3	248.8	249.8	250.7
57.5°	224.2	222.7	221.3	220.8	220.6	221.4	222.8	224.7	225.1	228.0	229.3
60°	208.0	205.8	204.6	204.6	203.9	206.7	206.1	209.2	209.9	211.7	213.9
62.5°	191.2	188.3	187.8	187.8	188.7	189.5	190.4	191.8	193.4	195.8	197.4
65°	164.3	162.7	164.9	164.5	164.0	165.8	165.8	167.4	169.3	171.5	174.9
67.5°	138.7	137.9	138.1	138.1	139.0	140.1	141.0	142.4	144.6	146.9	149.1
70°	121.5	122.4	120.8	122.1	123.0	123.4	123.9	125.8	128.3	129.9	132.4
72.5°	104.8	104.7	104.8	105.3	106.3	106.9	107.5	109.6	112.3	113.7	115.7
75°	80.6	80.2	81.2	81.2	82.8	83.4	84.0	85.0	87.4	89.3	90.9
77.5°	58.9	59.2	59.0	60.1	59.7	59.8	61.7	62.6	62.9	66.6	67.4
80°	44.4	45.0	45.2	45.6	45.9	45.2	47.5	48.4	48.4	50.5	52.2
82.5°	31.9	32.2	33.0	33.3	33.4	34.0	34.2	34.9	35.6	36.6	38.6
85°	15.9	16.9	17.2	16.9	17.2	16.6	17.4	17.8	18.1	18.1	18.1
87.5°	6.6	7.3	7.5	8.2	8.4	9.1	9.3	9.0	9.0	9.9	9.0
90°	8.1	10.1	12.5	14.8	17.2	19.6	20.2	21.0	21.7	22.4	23.0
92.5°	13.1	13.8	15.5	17.3	19.1	20.9	22.0	23.2	24.3	25.4	26.2
95°	20.0	17.3	19.2	21.3	23.2	25.2	26.5	27.7	29.0	30.3	30.9
97.5°	86.4	78.3	65.3	52.3	39.2	26.2	27.6	29.1	30.6	32.0	32.8
100°	152.0	139.7	111.5	83.2	55.0	26.8	28.3	29.8	31.2	32.6	33.4
102.5°	190.9	176.8	146.0	115.2	84.4	53.6	49.1	44.6	40.1	35.6	33.5
105°	250.5	243.3	227.1	210.8	194.5	178.2	146.2	114.2	82.2	50.2	34.3
107.5°	314.3	316.4	318.9	321.6	324.1	326.7	303.2	279.7	256.2	232.8	209.0
110°	357.3	359.1	361.0	363.1	365.0	367.0	361.0	355.1	349.1	343.2	327.3



TEST NUMBER: P331937-930

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	398.4	400.1	402.1	404.1	406.0	408.1	408.1	408.2	408.4	408.5	405.8
115°	459.3	460.6	462.2	463.8	465.5	467.1	469.0	470.8	472.5	474.3	475.6
117.5°	520.0	521.1	521.9	522.8	523.6	524.4	525.9	527.3	528.7	530.2	531.0
120°	558.2	559.4	559.9	560.4	561.0	561.5	563.0	564.4	565.8	567.3	568.0
122.5°	594.8	595.9	596.6	597.3	597.9	598.6	599.7	600.6	601.7	602.7	603.2
125°	647.0	648.2	648.9	649.5	650.3	651.0	651.4	651.8	652.1	652.5	652.8
127.5°	697.2	698.3	699.2	700.1	700.9	701.8	702.4	703.0	703.5	704.1	704.3
130°	728.5	729.5	730.3	731.0	731.6	732.4	733.1	733.9	734.6	735.3	735.5
132.5°	758.4	759.4	759.9	760.5	761.2	761.7	762.5	763.1	763.9	764.6	764.7
135°	802.7	803.6	804.3	805.0	805.8	806.5	807.0	807.6	808.1	808.6	808.6
137.5°	842.9	843.8	844.2	844.6	845.0	845.4	846.2	847.1	848.0	848.8	849.1
140°	867.8	868.6	869.1	869.7	870.3	870.7	871.5	872.2	872.9	873.7	873.8
142.5°	891.9	892.7	893.2	893.7	894.3	894.9	895.4	896.0	896.6	897.2	897.2
145°	926.3	927.1	927.5	927.8	928.1	928.5	928.9	929.3	929.6	930.0	930.2
147.5°	956.3	956.8	957.2	957.6	958.0	958.3	958.7	959.0	959.4	959.8	959.5
150°	974.6	975.1	975.4	975.8	976.2	976.6	976.9	977.3	977.6	978.0	977.9
152.5°	991.1	991.3	991.5	991.7	992.0	992.1	992.8	993.4	994.1	994.7	994.7
155°	1013.3	1013.3	1013.4	1013.6	1013.8	1014.0	1014.9	1015.8	1016.7	1017.6	1017.5
157.5°	1033.9	1033.7	1033.6	1033.4	1033.2	1033.0	1034.1	1035.2	1036.2	1037.4	1037.2
160°	1045.0	1044.8	1044.6	1044.5	1044.2	1044.1	1045.2	1046.3	1047.3	1048.4	1048.3
162.5°	1054.9	1054.6	1054.4	1054.2	1054.0	1053.9	1055.1	1056.3	1057.5	1058.7	1058.8
165°	1068.0	1067.6	1067.4	1067.2	1067.1	1066.9	1068.3	1069.8	1071.2	1072.7	1072.8
167.5°	1077.7	1077.3	1077.3	1077.3	1077.3	1077.3	1078.7	1080.2	1081.7	1083.0	1083.0
170°	1083.5	1083.1	1083.1	1083.1	1083.1	1083.1	1084.6	1086.1	1087.5	1088.9	1088.9
172.5°	1086.9	1086.5	1086.6	1086.8	1086.9	1087.0	1088.5	1090.0	1091.4	1092.8	1092.7
175°	1091.8	1091.4	1091.5	1091.8	1091.9	1092.1	1093.4	1094.6	1095.9	1097.1	1097.1
177.5°	1093.8	1093.5	1093.6	1093.8	1093.9	1094.1	1095.2	1096.3	1097.6	1098.7	1098.5
180°	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4



TEST NUMBER: P331937-930

CATALOG NUMBER: S123DIP-S560D1025U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	616.3	616.0	617.8	616.5	617.8	616.0	616.3	618.0	618.5	618.7	618.7
5°	573.6	574.5	571.4	571.4	571.4	574.5	573.6	575.5	577.1	578.3	580.2
7.5°	535.7	534.3	534.4	532.7	534.4	534.3	535.7	537.1	539.2	541.8	544.5
10°	512.4	510.5	509.9	510.2	509.9	510.5	512.4	516.2	517.4	519.9	522.7
12.5°	493.2	492.8	488.7	488.8	488.7	492.8	493.2	494.2	496.9	502.1	505.5
15°	470.6	464.6	464.0	465.9	464.0	464.6	470.6	470.6	471.8	475.9	477.8
17.5°	447.9	444.7	445.0	444.0	445.0	444.7	447.9	448.4	449.4	452.7	455.2
20°	435.9	434.1	433.7	431.5	433.7	434.1	435.9	435.9	437.2	438.7	441.2
22.5°	424.9	424.3	424.4	422.1	424.4	424.3	424.9	425.7	426.9	428.0	429.7
25°	411.2	412.8	411.6	411.6	411.6	412.8	411.2	411.6	411.9	413.4	414.7
27.5°	402.0	401.9	401.3	401.3	401.3	401.9	402.0	401.2	400.9	400.3	400.1
30°	395.0	394.7	395.3	395.3	395.3	394.7	395.0	393.8	393.1	392.8	391.6
32.5°	388.0	388.4	388.6	388.8	388.6	388.4	388.0	386.5	385.4	384.6	383.6
35°	377.2	377.5	378.5	377.8	378.5	377.5	377.2	375.4	374.1	372.2	370.6
37.5°	362.6	364.0	363.7	364.2	363.7	364.0	362.6	362.0	360.8	359.4	357.5
40°	351.6	352.5	352.2	352.2	352.2	352.5	351.6	351.3	350.0	349.1	347.6
42.5°	340.4	341.0	340.2	339.7	340.2	341.0	340.4	339.8	339.1	337.4	335.6
45°	322.0	321.3	322.3	321.0	322.3	321.3	322.0	320.7	320.4	319.1	317.6
47.5°	301.3	302.0	302.2	303.1	302.2	302.0	301.3	301.4	299.7	299.0	298.5
50°	287.6	289.4	289.4	289.2	289.4	289.4	287.6	287.0	285.7	284.5	284.5
52.5°	274.1	275.0	276.2	276.1	276.2	275.0	274.1	273.0	271.7	269.9	269.5
55°	253.2	253.9	254.5	254.8	254.5	253.9	253.2	250.7	249.8	248.8	247.3
57.5°	231.6	231.4	232.8	233.3	232.8	231.4	231.6	229.3	228.0	225.1	224.7
60°	216.4	216.4	218.9	219.8	218.9	216.4	216.4	213.9	211.7	209.9	209.2
62.5°	200.2	201.1	203.7	202.4	203.7	201.1	200.2	197.4	195.8	193.4	191.8
65°	176.4	179.0	178.6	179.9	178.6	179.0	176.4	174.9	171.5	169.3	167.4
67.5°	151.6	153.2	155.5	155.6	155.5	153.2	151.6	149.1	146.9	144.6	142.4
70°	134.9	136.5	137.7	138.6	137.7	136.5	134.9	132.4	129.9	128.3	125.8
72.5°	118.6	119.4	122.5	121.2	122.5	119.4	118.6	115.7	113.7	112.3	109.6
75°	93.0	95.2	97.1	96.2	97.1	95.2	93.0	90.9	89.3	87.4	85.0
77.5°	68.8	71.0	71.9	71.1	71.9	71.0	68.8	67.4	66.6	62.9	62.6
80°	54.3	54.1	55.9	55.6	55.9	54.1	54.3	52.2	50.5	48.4	48.4
82.5°	39.9	39.5	40.4	40.6	40.4	39.5	39.9	38.6	36.6	35.6	34.9
85°	19.3	20.3	19.1	18.8	19.1	20.3	19.3	18.1	18.1	18.1	17.8
87.5°	9.1	9.2	9.0	8.9	9.0	9.2	9.1	9.0	9.9	9.0	9.0
90°	23.3	23.7	24.1	24.4	24.1	23.7	23.3	23.0	22.4	21.7	21.0
92.5°	26.3	26.6	26.8	27.0	26.8	26.6	26.3	26.2	25.4	24.3	23.2
95°	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.3	29.0	27.7
97.5°	33.0	33.2	33.3	33.5	33.3	33.2	33.0	32.8	32.0	30.6	29.1
100°	33.7	33.8	34.0	34.2	34.0	33.8	33.7	33.4	32.6	31.2	29.8
102.5°	33.8	34.2	34.5	34.8	34.5	34.2	33.8	33.5	35.6	40.1	44.6
105°	34.7	35.1	35.5	35.8	35.5	35.1	34.7	34.3	50.2	82.2	114.2
107.5°	184.8	160.7	136.6	112.4	136.6	160.7	184.8	209.0	232.8	256.2	279.7
110°	301.3	275.5	249.6	223.8	249.6	275.5	301.3	327.3	343.2	349.1	355.1



TEST NUMBER: P331937-930

CATALOG NUMBER: S123DIP-S560D1025U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	400.3	394.8	389.4	383.9	389.4	394.8	400.3	405.8	408.5	408.4	408.2
115°	476.3	477.0	477.8	478.5	477.8	477.0	476.3	475.6	474.3	472.5	470.8
117.5°	531.2	531.2	531.4	531.6	531.4	531.2	531.2	531.0	530.2	528.7	527.3
120°	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	567.3	565.8	564.4
122.5°	603.4	603.6	603.6	603.8	603.6	603.6	603.4	603.2	602.7	601.7	600.6
125°	653.2	653.5	654.0	654.3	654.0	653.5	653.2	652.8	652.5	652.1	651.8
127.5°	703.8	703.5	703.1	702.8	703.1	703.5	703.8	704.3	704.1	703.5	703.0
130°	735.2	734.7	734.4	734.0	734.4	734.7	735.2	735.5	735.3	734.6	733.9
132.5°	764.2	763.7	763.2	762.7	763.2	763.7	764.2	764.7	764.6	763.9	763.1
135°	808.1	807.6	807.0	806.5	807.0	807.6	808.1	808.6	808.6	808.1	807.6
137.5°	848.7	848.4	848.0	847.7	848.0	848.4	848.7	849.1	848.8	848.0	847.1
140°	873.4	873.1	872.8	872.4	872.8	873.1	873.4	873.8	873.7	872.9	872.2
142.5°	896.7	896.2	895.7	895.2	895.7	896.2	896.7	897.2	897.2	896.6	896.0
145°	930.2	930.2	930.2	930.2	930.2	930.2	930.2	930.2	930.0	929.6	929.3
147.5°	958.7	957.9	957.0	956.2	957.0	957.9	958.7	959.5	959.8	959.4	959.0
150°	977.4	976.8	976.2	975.8	976.2	976.8	977.4	977.9	978.0	977.6	977.3
152.5°	993.8	993.0	992.2	991.3	992.2	993.0	993.8	994.7	994.7	994.1	993.4
155°	1016.4	1015.4	1014.2	1013.2	1014.2	1015.4	1016.4	1017.5	1017.6	1016.7	1015.8
157.5°	1035.8	1034.4	1033.0	1031.6	1033.0	1034.4	1035.8	1037.2	1037.4	1036.2	1035.2
160°	1047.1	1045.8	1044.6	1043.3	1044.6	1045.8	1047.1	1048.3	1048.4	1047.3	1046.3
162.5°	1057.7	1056.5	1055.5	1054.3	1055.5	1056.5	1057.7	1058.8	1058.7	1057.5	1056.3
165°	1071.5	1070.2	1068.9	1067.7	1068.9	1070.2	1071.5	1072.8	1072.7	1071.2	1069.8
167.5°	1081.7	1080.2	1078.7	1077.3	1078.7	1080.2	1081.7	1083.0	1083.0	1081.7	1080.2
170°	1087.5	1086.1	1084.6	1083.1	1084.6	1086.1	1087.5	1088.9	1088.9	1087.5	1086.1
172.5°	1091.2	1089.6	1088.0	1086.4	1088.0	1089.6	1091.2	1092.7	1092.8	1091.4	1090.0
175°	1095.6	1094.2	1092.7	1091.3	1092.7	1094.2	1095.6	1097.1	1097.1	1095.9	1094.6
177.5°	1097.1	1095.7	1094.2	1092.7	1094.2	1095.7	1097.1	1098.5	1098.7	1097.6	1096.3
180°	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	618.0	618.0	622.7	625.7	629.5	632.0	633.7	635.5	638.5	642.5	647.0
5°	582.7	583.9	590.8	597.7	604.2	609.8	614.5	620.1	627.0	635.4	644.8
7.5°	548.5	553.3	560.2	568.6	577.7	586.0	594.2	603.5	613.1	625.6	638.7
10°	526.4	531.7	540.2	550.8	560.5	570.1	580.5	590.4	602.7	617.3	634.2
12.5°	507.2	512.3	521.0	532.6	541.8	552.4	564.3	577.2	590.9	608.6	627.7
15°	480.5	486.5	497.1	502.7	516.8	529.6	540.5	559.2	576.7	594.8	617.0
17.5°	458.7	462.0	470.6	481.0	491.5	505.9	520.2	535.8	553.3	575.4	603.2
20°	443.7	446.5	455.9	466.8	478.1	491.2	504.0	519.6	539.2	562.7	592.6
22.5°	432.4	435.5	441.6	453.3	463.8	474.7	487.5	506.1	527.0	549.9	582.4
25°	416.2	418.1	422.2	431.5	440.9	453.1	464.3	481.8	503.4	530.2	562.7
27.5°	400.8	402.6	406.0	412.7	421.5	431.4	443.6	458.4	480.3	509.5	544.0
30°	391.6	391.9	395.0	401.2	408.7	416.9	428.1	445.0	465.5	495.2	531.5
32.5°	383.6	382.4	384.5	389.2	396.5	404.6	413.8	430.5	450.4	479.5	516.7
35°	370.0	369.4	368.4	372.5	378.8	385.0	393.1	405.6	428.1	455.3	494.3
37.5°	356.2	354.7	353.0	354.9	359.8	366.3	373.3	384.4	403.8	433.7	471.1
40°	346.0	344.7	343.8	343.2	347.6	353.8	359.1	369.7	387.8	416.2	453.1
42.5°	334.8	334.0	332.8	331.9	335.6	340.3	345.8	355.2	373.3	400.0	434.9
45°	316.7	316.0	315.4	314.8	316.9	321.3	325.7	332.6	348.1	374.1	405.6
47.5°	296.4	295.6	295.9	294.9	297.0	299.9	303.0	310.4	325.4	346.3	369.3
50°	281.9	281.7	281.7	281.7	282.3	285.7	288.5	294.2	307.9	328.8	345.4
52.5°	268.2	266.9	266.9	267.4	268.6	270.8	272.6	278.7	290.7	307.9	322.9
55°	246.7	244.2	243.5	244.2	245.2	247.0	248.8	253.9	264.2	277.0	285.7
57.5°	222.8	221.4	220.6	220.8	221.3	222.7	224.2	229.7	237.7	244.4	250.1
60°	206.1	206.7	203.9	204.6	204.6	205.8	208.0	211.4	218.3	223.0	228.6
62.5°	190.4	189.5	188.7	187.8	187.8	188.3	191.2	193.9	199.7	202.2	206.6
65°	165.8	165.8	164.0	164.5	164.9	162.7	164.3	167.4	171.1	172.0	176.1
67.5°	141.0	140.1	139.0	138.1	138.1	137.9	138.7	140.2	143.1	143.4	146.5
70°	123.9	123.4	123.0	122.1	120.8	122.4	121.5	123.0	124.6	124.9	126.8
72.5°	107.5	106.9	106.3	105.3	104.8	104.7	104.8	106.6	107.6	107.1	109.3
75°	84.0	83.4	82.8	81.2	81.2	80.2	80.6	81.8	83.1	82.1	84.0
77.5°	61.7	59.8	59.7	60.1	59.0	59.2	58.9	58.6	59.2	59.3	61.0
80°	47.5	45.2	45.9	45.6	45.2	45.0	44.4	44.7	45.0	45.2	46.2
82.5°	34.2	34.0	33.4	33.3	33.0	32.2	31.9	32.4	32.7	32.5	33.3
85°	17.4	16.6	17.2	16.9	17.2	16.9	15.9	15.9	16.6	16.2	16.9
87.5°	9.3	9.1	8.4	8.2	7.5	7.3	6.6	6.5	6.4	6.0	6.2
90°	20.2	19.6	17.2	14.8	12.5	10.1	8.1	6.3	4.4	2.6	0.8
92.5°	22.0	20.9	19.1	17.3	15.5	13.8	13.1	13.6	14.1	14.6	15.2
95°	26.5	25.2	23.2	21.3	19.2	17.3	20.0	27.4	34.8	42.2	49.7
97.5°	27.6	26.2	39.2	52.3	65.3	78.3	86.4	89.8	93.1	96.4	99.8
100°	28.3	26.8	55.0	83.2	111.5	139.7	152.0	148.4	144.8	141.1	137.5
102.5°	49.1	53.6	84.4	115.2	146.0	176.8	190.9	188.3	185.7	183.1	180.5
105°	146.2	178.2	194.5	210.8	227.1	243.3	250.5	248.5	246.5	244.5	242.5
107.5°	303.2	326.7	324.1	321.6	318.9	316.4	314.3	312.7	311.1	309.6	307.9
110°	361.0	367.0	365.0	363.1	361.0	359.1	357.3	355.9	354.4	353.0	351.6



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	408.1	408.1	406.0	404.1	402.1	400.1	398.4	397.1	395.8	394.5	393.2
115°	469.0	467.1	465.5	463.8	462.2	460.6	459.3	458.2	457.1	456.0	454.9
117.5°	525.9	524.4	523.6	522.8	521.9	521.1	520.0	518.7	517.3	516.0	514.6
120°	563.0	561.5	561.0	560.4	559.9	559.4	558.2	556.6	555.0	553.3	551.7
122.5°	599.7	598.6	597.9	597.3	596.6	595.9	594.8	593.5	592.2	590.8	589.5
125°	651.4	651.0	650.3	649.5	648.9	648.2	647.0	645.6	644.2	642.7	641.2
127.5°	702.4	701.8	700.9	700.1	699.2	698.3	697.2	695.7	694.3	692.8	691.4
130°	733.1	732.4	731.6	731.0	730.3	729.5	728.5	727.0	725.5	724.1	722.7
132.5°	762.5	761.7	761.2	760.5	759.9	759.4	758.4	756.9	755.5	754.1	752.6
135°	807.0	806.5	805.8	805.0	804.3	803.6	802.7	801.6	800.5	799.4	798.3
137.5°	846.2	845.4	845.0	844.6	844.2	843.8	842.9	841.6	840.2	838.8	837.4
140°	871.5	870.7	870.3	869.7	869.1	868.6	867.8	866.7	865.6	864.5	863.4
142.5°	895.4	894.9	894.3	893.7	893.2	892.7	891.9	890.8	889.7	888.6	887.5
145°	928.9	928.5	928.1	927.8	927.5	927.1	926.3	925.0	923.7	922.5	921.2
147.5°	958.7	958.3	958.0	957.6	957.2	956.8	956.3	955.4	954.6	953.8	952.9
150°	976.9	976.6	976.2	975.8	975.4	975.1	974.6	974.1	973.5	973.1	972.5
152.5°	992.8	992.1	992.0	991.7	991.5	991.3	991.1	990.8	990.6	990.3	990.0
155°	1014.9	1014.0	1013.8	1013.6	1013.4	1013.3	1013.3	1013.7	1014.1	1014.4	1014.8
157.5°	1034.1	1033.0	1033.2	1033.4	1033.6	1033.7	1033.9	1033.9	1034.0	1034.0	1034.0
160°	1045.2	1044.1	1044.2	1044.5	1044.6	1044.8	1045.0	1045.2	1045.4	1045.5	1045.7
162.5°	1055.1	1053.9	1054.0	1054.2	1054.4	1054.6	1054.9	1055.4	1055.8	1056.3	1056.8
165°	1068.3	1066.9	1067.1	1067.2	1067.4	1067.6	1068.0	1068.5	1069.0	1069.6	1070.2
167.5°	1078.7	1077.3	1077.3	1077.3	1077.3	1077.3	1077.7	1078.4	1079.1	1079.9	1080.5
170°	1084.6	1083.1	1083.1	1083.1	1083.1	1083.1	1083.5	1084.3	1085.0	1085.7	1086.4
172.5°	1088.5	1087.0	1086.9	1086.8	1086.6	1086.5	1086.9	1087.7	1088.6	1089.5	1090.3
175°	1093.4	1092.1	1091.9	1091.8	1091.5	1091.4	1091.8	1092.7	1093.6	1094.5	1095.4
177.5°	1095.2	1094.1	1093.9	1093.8	1093.6	1093.5	1093.8	1094.5	1095.2	1095.9	1096.7
180°	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	648.5	649.7	654.0	657.0	660.5	662.5	664.5	666.0	668.0	668.5	675.7
5°	651.3	657.6	668.5	676.6	686.6	697.6	705.1	708.5	717.5	725.0	740.0
7.5°	650.5	663.8	680.4	697.5	715.8	732.8	747.5	765.0	777.5	796.1	814.6
10°	649.8	667.6	688.8	710.7	736.3	760.0	781.3	805.0	824.7	850.6	872.8
12.5°	647.6	669.1	698.5	724.4	755.5	788.2	819.7	850.2	867.6	910.8	931.2
15°	642.0	667.6	704.4	743.8	786.6	825.3	865.3	897.1	948.6	986.4	1010.5
17.5°	631.4	667.2	710.9	758.4	810.4	861.4	906.7	955.0	1009.7	1055.4	1104.2
20°	626.4	665.7	714.4	766.9	820.9	878.6	930.2	988.3	1047.9	1092.9	1155.4
22.5°	617.2	661.7	714.2	772.7	830.4	890.1	950.5	1009.0	1077.9	1139.9	1199.3
25°	602.0	652.0	706.3	771.6	839.4	899.3	971.4	1049.2	1121.0	1200.6	1260.0
27.5°	586.2	639.5	694.0	754.6	827.5	898.7	989.4	1077.3	1165.1	1233.9	1277.7
30°	573.9	625.7	682.0	743.1	815.3	899.9	1001.4	1097.2	1182.8	1241.9	1266.5
32.5°	560.7	613.3	663.0	727.2	804.0	899.2	1008.9	1109.0	1183.8	1223.1	1218.3
35°	539.9	583.9	632.3	694.1	784.7	893.6	1013.3	1110.0	1155.9	1147.5	1083.9
37.5°	509.9	547.0	594.6	662.3	762.2	882.2	1004.5	1077.2	1074.2	1005.5	913.2
40°	491.2	522.7	568.6	639.8	744.7	874.7	990.8	1038.0	998.0	902.1	791.6
42.5°	466.7	495.7	541.6	614.8	725.5	859.4	964.6	978.2	900.0	789.7	688.4
45°	428.8	454.4	501.8	577.4	696.7	826.2	900.6	867.2	761.9	647.9	570.8
47.5°	387.9	414.6	460.2	537.9	654.9	776.3	811.7	740.7	632.6	540.2	469.4
50°	362.2	387.8	432.4	510.9	626.7	735.4	750.1	658.3	559.0	477.8	419.6
52.5°	336.2	360.4	404.2	482.9	593.7	687.9	678.8	585.3	494.0	424.8	379.2
55°	297.6	320.4	362.2	435.9	536.8	611.4	578.6	489.3	413.8	360.0	325.4
57.5°	263.0	284.9	320.9	387.5	475.2	526.4	484.8	409.5	349.4	308.1	282.3
60°	239.5	258.9	293.2	355.1	431.2	470.3	429.0	362.6	311.9	278.8	255.8
62.5°	217.3	234.2	266.0	322.0	388.2	421.0	379.4	323.0	280.0	250.6	231.0
65°	183.6	198.9	227.0	270.8	325.1	346.9	311.0	265.4	232.0	210.2	197.1
67.5°	152.9	165.8	190.1	224.5	264.6	280.5	253.2	217.8	192.7	175.1	164.7
70°	132.4	143.7	162.7	192.3	228.6	240.8	215.2	186.1	167.7	153.6	144.0
72.5°	115.1	123.4	140.7	163.6	193.9	203.5	185.6	160.1	142.9	132.4	124.7
75°	87.7	94.6	105.8	124.3	145.2	150.8	137.4	121.5	109.9	102.4	96.4
77.5°	63.3	68.3	76.5	87.8	102.3	107.4	98.9	88.2	79.8	74.8	71.4
80°	47.8	51.9	58.7	68.1	76.8	79.7	74.6	66.5	60.6	57.8	55.0
82.5°	35.3	37.6	41.7	48.1	54.1	57.4	53.2	48.3	45.1	42.6	41.5
85°	17.8	19.1	21.0	23.4	27.1	28.5	26.8	25.6	23.7	22.2	22.2
87.5°	7.0	7.4	8.5	9.4	10.8	12.0	12.2	12.1	12.4	12.3	12.2
90°	2.6	4.4	6.3	8.1	10.1	12.5	14.8	17.2	19.6	20.2	21.0
92.5°	14.6	14.1	13.6	13.1	13.8	15.5	17.3	19.1	20.9	22.0	23.2
95°	42.2	34.8	27.4	20.0	17.3	19.2	21.3	23.2	25.2	26.5	27.7
97.5°	96.4	93.1	89.8	86.4	78.3	65.3	52.3	39.2	26.2	27.6	29.1
100°	141.1	144.8	148.4	152.0	139.7	111.5	83.2	55.0	26.8	28.3	29.8
102.5°	183.1	185.7	188.3	190.9	176.8	146.0	115.2	84.4	53.6	49.1	44.6
105°	244.5	246.5	248.5	250.5	243.3	227.1	210.8	194.5	178.2	146.2	114.2
107.5°	309.6	311.1	312.7	314.3	316.4	318.9	321.6	324.1	326.7	303.2	279.7
110°	353.0	354.4	355.9	357.3	359.1	361.0	363.1	365.0	367.0	361.0	355.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	394.5	395.8	397.1	398.4	400.1	402.1	404.1	406.0	408.1	408.1	408.2
115°	456.0	457.1	458.2	459.3	460.6	462.2	463.8	465.5	467.1	469.0	470.8
117.5°	516.0	517.3	518.7	520.0	521.1	521.9	522.8	523.6	524.4	525.9	527.3
120°	553.3	555.0	556.6	558.2	559.4	559.9	560.4	561.0	561.5	563.0	564.4
122.5°	590.8	592.2	593.5	594.8	595.9	596.6	597.3	597.9	598.6	599.7	600.6
125°	642.7	644.2	645.6	647.0	648.2	648.9	649.5	650.3	651.0	651.4	651.8
127.5°	692.8	694.3	695.7	697.2	698.3	699.2	700.1	700.9	701.8	702.4	703.0
130°	724.1	725.5	727.0	728.5	729.5	730.3	731.0	731.6	732.4	733.1	733.9
132.5°	754.1	755.5	756.9	758.4	759.4	759.9	760.5	761.2	761.7	762.5	763.1
135°	799.4	800.5	801.6	802.7	803.6	804.3	805.0	805.8	806.5	807.0	807.6
137.5°	838.8	840.2	841.6	842.9	843.8	844.2	844.6	845.0	845.4	846.2	847.1
140°	864.5	865.6	866.7	867.8	868.6	869.1	869.7	870.3	870.7	871.5	872.2
142.5°	888.6	889.7	890.8	891.9	892.7	893.2	893.7	894.3	894.9	895.4	896.0
145°	922.5	923.7	925.0	926.3	927.1	927.5	927.8	928.1	928.5	928.9	929.3
147.5°	953.8	954.6	955.4	956.3	956.8	957.2	957.6	958.0	958.3	958.7	959.0
150°	973.1	973.5	974.1	974.6	975.1	975.4	975.8	976.2	976.6	976.9	977.3
152.5°	990.3	990.6	990.8	991.1	991.3	991.5	991.7	992.0	992.1	992.8	993.4
155°	1014.4	1014.1	1013.7	1013.3	1013.3	1013.4	1013.6	1013.8	1014.0	1014.9	1015.8
157.5°	1034.0	1034.0	1033.9	1033.9	1033.7	1033.6	1033.4	1033.2	1033.0	1034.1	1035.2
160°	1045.5	1045.4	1045.2	1045.0	1044.8	1044.6	1044.5	1044.2	1044.1	1045.2	1046.3
162.5°	1056.3	1055.8	1055.4	1054.9	1054.6	1054.4	1054.2	1054.0	1053.9	1055.1	1056.3
165°	1069.6	1069.0	1068.5	1068.0	1067.6	1067.4	1067.2	1067.1	1066.9	1068.3	1069.8
167.5°	1079.9	1079.1	1078.4	1077.7	1077.3	1077.3	1077.3	1077.3	1077.3	1078.7	1080.2
170°	1085.7	1085.0	1084.3	1083.5	1083.1	1083.1	1083.1	1083.1	1083.1	1084.6	1086.1
172.5°	1089.5	1088.6	1087.7	1086.9	1086.5	1086.6	1086.8	1086.9	1087.0	1088.5	1090.0
175°	1094.5	1093.6	1092.7	1091.8	1091.4	1091.5	1091.8	1091.9	1092.1	1093.4	1094.6
177.5°	1095.9	1095.2	1094.5	1093.8	1093.5	1093.6	1093.8	1093.9	1094.1	1095.2	1096.3
180°	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	678.2	678.5	681.2	683.2	682.2	683.5	684.0
5°	740.9	752.2	758.1	762.5	762.9	763.1	765.6
7.5°	830.0	842.0	850.8	864.2	868.2	872.8	871.5
10°	895.0	912.7	928.1	936.1	944.9	957.7	947.4
12.5°	955.6	987.2	1010.5	1023.0	1031.4	1033.9	1028.8
15°	1055.7	1097.0	1119.2	1118.5	1146.6	1158.8	1139.7
17.5°	1147.5	1185.6	1216.0	1231.7	1255.1	1260.3	1257.9
20°	1203.7	1245.3	1269.0	1295.8	1308.1	1319.0	1320.9
22.5°	1252.2	1289.5	1315.0	1337.3	1347.5	1352.7	1355.8
25°	1302.1	1331.5	1346.8	1354.5	1357.4	1356.7	1352.7
27.5°	1298.7	1300.9	1284.1	1267.5	1252.7	1236.0	1230.3
30°	1264.9	1238.7	1191.9	1165.3	1126.3	1095.4	1107.9
32.5°	1176.2	1124.1	1071.5	1013.4	965.4	951.8	938.0
35°	1003.9	912.1	858.4	796.0	770.9	746.0	728.8
37.5°	812.2	741.2	677.4	636.6	611.6	595.8	587.3
40°	702.3	638.2	585.8	552.7	533.6	515.8	513.3
42.5°	614.6	555.1	515.6	489.3	470.9	463.4	457.9
45°	503.4	461.8	435.3	416.5	404.4	399.7	393.5
47.5°	426.1	396.7	376.7	364.0	354.8	351.3	350.8
50°	382.9	358.5	343.8	333.8	326.6	325.4	320.4
52.5°	350.3	329.2	317.8	309.1	303.9	300.4	298.9
55°	304.1	290.1	279.8	274.8	270.8	267.3	267.3
57.5°	266.1	254.4	247.5	243.3	242.1	239.6	238.1
60°	242.6	232.6	227.3	223.6	221.1	221.4	218.6
62.5°	219.6	213.1	208.1	204.3	201.4	201.4	201.6
65°	187.0	182.1	178.3	177.1	175.2	173.0	173.6
67.5°	158.5	153.8	150.9	148.8	148.1	146.9	148.8
70°	138.0	134.6	132.4	130.5	129.9	130.2	131.8
72.5°	119.3	116.8	115.4	114.5	113.2	113.2	114.3
75°	93.7	91.8	90.6	89.6	89.3	89.3	89.3
77.5°	68.8	68.4	67.8	66.4	66.5	66.9	66.9
80°	54.3	53.4	53.1	52.4	51.5	50.9	52.4
82.5°	40.6	39.6	39.4	39.2	37.7	37.7	39.0
85°	21.9	21.0	21.2	21.0	21.0	20.6	20.6
87.5°	12.1	12.0	11.8	12.1	12.0	11.8	12.4
90°	21.7	22.4	23.0	23.3	23.7	24.1	24.4
92.5°	24.3	25.4	26.2	26.3	26.6	26.8	27.0
95°	29.0	30.3	30.9	30.9	30.9	30.9	30.9
97.5°	30.6	32.0	32.8	33.0	33.2	33.3	33.5
100°	31.2	32.6	33.4	33.7	33.8	34.0	34.2
102.5°	40.1	35.6	33.5	33.8	34.2	34.5	34.8
105°	82.2	50.2	34.3	34.7	35.1	35.5	35.8
107.5°	256.2	232.8	209.0	184.8	160.7	136.6	112.4
110°	349.1	343.2	327.3	301.3	275.5	249.6	223.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	408.4	408.5	405.8	400.3	394.8	389.4	383.9
115°	472.5	474.3	475.6	476.3	477.0	477.8	478.5
117.5°	528.7	530.2	531.0	531.2	531.2	531.4	531.6
120°	565.8	567.3	568.0	568.0	568.0	568.0	568.0
122.5°	601.7	602.7	603.2	603.4	603.6	603.6	603.8
125°	652.1	652.5	652.8	653.2	653.5	654.0	654.3
127.5°	703.5	704.1	704.3	703.8	703.5	703.1	702.8
130°	734.6	735.3	735.5	735.2	734.7	734.4	734.0
132.5°	763.9	764.6	764.7	764.2	763.7	763.2	762.7
135°	808.1	808.6	808.6	808.1	807.6	807.0	806.5
137.5°	848.0	848.8	849.1	848.7	848.4	848.0	847.7
140°	872.9	873.7	873.8	873.4	873.1	872.8	872.4
142.5°	896.6	897.2	897.2	896.7	896.2	895.7	895.2
145°	929.6	930.0	930.2	930.2	930.2	930.2	930.2
147.5°	959.4	959.8	959.5	958.7	957.9	957.0	956.2
150°	977.6	978.0	977.9	977.4	976.8	976.2	975.8
152.5°	994.1	994.7	994.7	993.8	993.0	992.2	991.3
155°	1016.7	1017.6	1017.5	1016.4	1015.4	1014.2	1013.2
157.5°	1036.2	1037.4	1037.2	1035.8	1034.4	1033.0	1031.6
160°	1047.3	1048.4	1048.3	1047.1	1045.8	1044.6	1043.3
162.5°	1057.5	1058.7	1058.8	1057.7	1056.5	1055.5	1054.3
165°	1071.2	1072.7	1072.8	1071.5	1070.2	1068.9	1067.7
167.5°	1081.7	1083.0	1083.0	1081.7	1080.2	1078.7	1077.3
170°	1087.5	1088.9	1088.9	1087.5	1086.1	1084.6	1083.1
172.5°	1091.4	1092.8	1092.7	1091.2	1089.6	1088.0	1086.4
175°	1095.9	1097.1	1097.1	1095.6	1094.2	1092.7	1091.3
177.5°	1097.6	1098.7	1098.5	1097.1	1095.7	1094.2	1092.7
180°	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4	1095.4

(END OF REPORT)