

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: P332163-927

Luminaire Tested: **S123DIW-S775D1030U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332163-927  
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: S123DIW-S775D1030U927-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1030 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5417.3 lumens  
Efficiency: N/A  
Efficacy: 103.0 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: General Diffuse

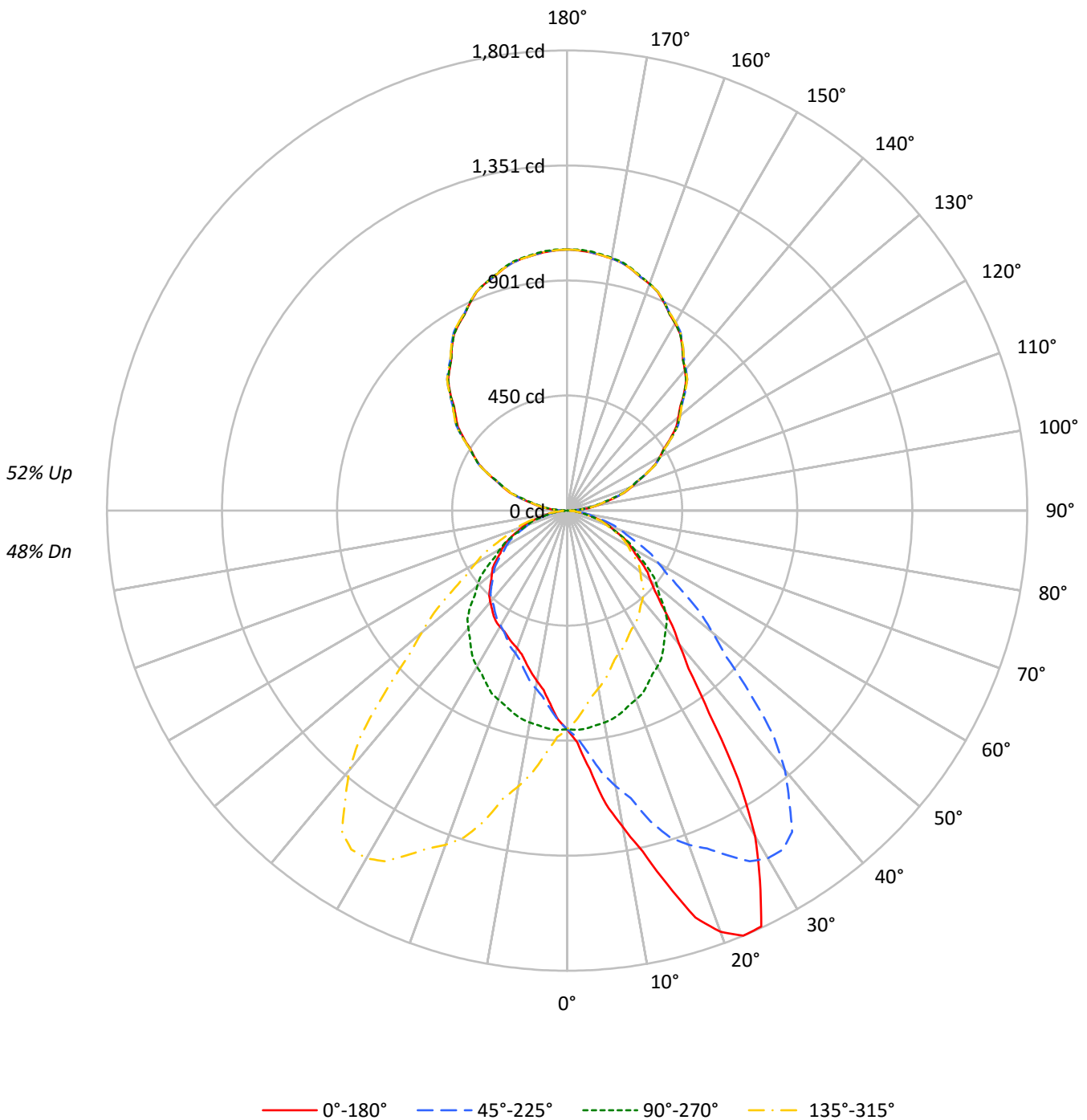
Input Watts (W): 52.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48				48
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46				41	
2	89	82	76	71	82	75	70	66	64	60	57	53	50	48	43	41	39				35	
3	81	72	65	59	75	67	60	55	56	52	48	47	43	41	38	36	34				29	
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29				25	
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	25				22	
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	22				20	
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	22	20				17	
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18				16	
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	18	16				14	
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15				13	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	9214	9214	9214	9214
5°	10988	9253	8200	9253
10°	13753	9206	7406	9206
15°	16868	9132	6896	9132
20°	20095	9016	6565	9016
25°	21338	8875	6492	8875
30°	18288	8772	6527	8772
35°	12720	8627	6594	8627
40°	9580	8455	6573	8455
45°	7954	8202	6491	8202
50°	7125	7681	6430	7681
55°	6662	7122	6351	7122
60°	6250	6536	6286	6536
65°	5873	5957	6082	5957
70°	5508	5297	5794	5297
75°	4932	4637	5311	4637
80°	4320	3806	4575	3806
85°	3384	2766	3075	2766



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.3	1.6
10°-20°	270.4	5.0
20°-30°	453.8	8.4
30°-40°	513.8	9.5
40°-50°	460.8	8.5
50°-60°	371.8	6.9
60°-70°	259.1	4.8
70°-80°	136.2	2.5
80°-90°	36.3	0.7
90°-100°	66.6	1.2
100°-110°	199.2	3.7
110°-120°	338.8	6.3
120°-130°	445.7	8.2
130°-140°	500.9	9.2
140°-150°	492.4	9.1
150°-160°	414.5	7.7
160°-170°	275.9	5.1
170°-180°	96.6	1.8
0°-30°	808.5	14.9
0°-40°	1322.3	24.4
0°-60°	2154.9	39.8
0°-90°	2586.6	47.7
90°-120°	604.6	11.2
90°-150°	2043.6	37.7
90°-180°	2831.0	52.3
0°-180°	5417.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	856	856	856	856	856	
5°	1017	856	759	856	1017	105
15°	1514	820	619	820	1514	437
25°	1797	747	547	747	1797	788
35°	968	656	502	656	968	629
45°	522	539	426	539	522	413
55°	355	380	338	380	355	319
65°	231	234	239	234	231	230
75°	119	112	128	112	119	127
85°	27	22	25	22	27	33
90°	24	1	24	1	24	13
95°	63	47	63	47	63	64
105°	191	181	191	181	191	203
115°	342	341	342	341	342	339
125°	494	499	494	499	494	441
135°	647	648	647	648	647	497
145°	786	786	786	786	786	490
155°	898	900	898	900	898	414
165°	977	980	977	980	977	275
175°	1015	1019	1015	1019	1015	96
180°	1022	1022	1022	1022	1022	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0
2.5°	908.4	907.8	906.1	907.4	904.8	901.1	900.8	897.5	887.8	887.2	884.6
5°	1016.9	1013.6	1013.2	1012.7	1006.9	999.1	984.1	982.9	963.0	953.0	941.0
7.5°	1157.4	1159.1	1153.1	1147.8	1130.0	1118.3	1102.3	1081.8	1057.4	1032.6	1016.1
10°	1258.3	1271.9	1255.0	1243.3	1232.6	1212.2	1188.6	1159.1	1129.7	1095.3	1069.1
12.5°	1366.4	1373.2	1369.8	1358.8	1342.0	1311.1	1269.2	1236.8	1209.7	1152.3	1129.2
15°	1513.7	1539.1	1522.9	1485.5	1486.4	1456.9	1402.2	1342.0	1310.1	1259.9	1191.5
17.5°	1670.6	1673.8	1666.9	1635.9	1615.1	1574.6	1524.1	1466.5	1401.8	1341.0	1268.4
20°	1754.3	1751.8	1737.3	1721.1	1685.4	1653.9	1598.8	1534.5	1451.5	1391.8	1312.6
22.5°	1800.7	1796.6	1789.7	1776.2	1746.4	1712.6	1663.1	1592.8	1513.9	1431.6	1340.1
25°	1796.6	1802.0	1802.8	1799.0	1788.7	1768.4	1729.4	1673.4	1594.6	1488.8	1393.4
27.5°	1634.0	1641.6	1663.8	1683.5	1705.4	1727.8	1724.8	1697.0	1638.7	1547.4	1430.8
30°	1471.4	1454.8	1495.9	1547.8	1583.0	1645.2	1680.1	1682.1	1649.3	1571.0	1457.3
32.5°	1245.8	1264.1	1282.2	1346.0	1423.1	1492.9	1562.3	1618.1	1624.4	1572.3	1472.9
35°	968.0	990.8	1024.0	1057.1	1140.1	1211.4	1333.3	1439.5	1524.1	1535.3	1474.3
37.5°	780.0	791.3	812.3	845.5	899.8	984.4	1078.7	1212.9	1335.5	1426.6	1430.6
40°	681.8	685.2	708.8	734.0	778.0	847.7	932.7	1051.3	1198.1	1325.5	1378.6
42.5°	608.2	615.4	625.5	649.7	684.8	737.2	816.3	914.3	1048.8	1195.4	1299.3
45°	522.5	530.8	537.1	553.3	578.1	613.4	668.5	758.1	860.5	1011.9	1151.7
47.5°	466.0	466.7	471.3	483.5	500.4	526.9	565.9	623.4	717.5	840.2	983.7
50°	425.5	432.1	433.8	443.3	456.6	476.1	508.4	557.4	634.5	742.4	874.3
52.5°	397.0	398.9	403.6	410.5	422.1	437.3	465.3	503.7	564.2	656.1	777.4
55°	355.0	355.0	359.6	365.0	371.6	385.2	403.9	432.1	478.2	549.5	649.9
57.5°	316.2	318.2	321.5	323.1	328.8	337.9	353.4	374.9	409.2	464.1	543.8
60°	290.3	294.1	293.7	296.9	301.9	309.0	322.3	339.7	370.3	414.3	481.5
62.5°	267.8	267.5	267.4	271.4	276.4	283.1	291.7	306.8	332.9	371.9	429.0
65°	230.6	229.7	232.7	235.1	236.8	241.8	248.4	261.7	279.1	308.2	352.5
67.5°	197.6	195.2	196.8	197.6	200.4	204.3	210.5	218.7	232.6	255.9	289.3
70°	175.0	172.9	172.5	173.3	175.9	178.7	183.3	191.2	204.1	222.7	247.2
72.5°	151.8	150.4	150.3	152.1	153.3	155.2	158.4	165.6	175.9	189.9	212.7
75°	118.6	118.6	118.6	119.0	120.3	121.9	124.5	128.2	136.0	146.0	161.3
77.5°	88.9	88.8	88.3	88.2	90.1	90.9	91.4	94.9	99.3	106.0	117.2
80°	69.7	67.6	68.4	69.7	70.5	70.9	72.2	73.0	76.8	80.5	88.3
82.5°	51.7	50.0	50.1	52.1	52.3	52.7	53.9	55.1	56.5	59.9	64.1
85°	27.4	27.4	27.8	27.8	28.2	27.8	29.0	29.5	29.5	31.5	34.0
87.5°	14.7	14.0	14.3	14.6	14.2	14.3	14.6	14.7	15.0	15.1	15.0
90°	24.1	23.7	23.4	23.0	22.7	22.1	21.4	20.7	20.0	19.3	17.0
92.5°	32.4	32.6	32.9	33.0	33.3	33.1	32.6	31.9	31.4	30.8	29.5
95°	62.6	62.6	62.6	62.6	62.6	62.3	61.6	60.8	60.1	59.4	58.0
97.5°	96.3	96.4	96.5	96.5	96.6	96.3	95.4	94.6	93.8	92.9	91.9
100°	122.0	121.6	121.3	120.9	120.6	120.1	119.6	119.1	118.5	118.0	117.1
102.5°	148.3	148.4	148.5	148.5	148.6	148.4	147.8	147.3	146.8	146.2	145.0
105°	191.0	190.7	190.3	190.0	189.6	189.4	189.4	189.4	189.4	189.4	187.8
107.5°	235.4	235.7	235.9	236.1	236.3	236.1	235.6	235.0	234.4	233.9	233.2
110°	265.6	266.0	266.3	266.7	267.0	266.9	266.2	265.5	264.7	264.0	263.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	297.8	297.9	297.9	297.9	298.0	297.6	296.8	296.0	295.1	294.2	294.1
115°	341.9	342.1	342.2	342.5	342.6	342.6	342.5	342.2	342.1	341.9	342.2
117.5°	386.7	387.1	387.7	388.2	388.6	389.0	389.0	389.0	389.0	389.1	389.5
120°	418.1	418.5	418.8	419.2	419.5	419.9	420.0	420.2	420.3	420.6	421.4
122.5°	448.3	448.9	449.3	449.8	450.3	450.8	451.2	451.7	452.2	452.7	453.1
125°	493.6	494.3	495.0	495.7	496.5	497.2	497.9	498.6	499.3	500.0	500.3
127.5°	538.7	539.5	540.3	541.1	541.9	542.9	543.9	544.9	545.9	546.8	547.2
130°	568.2	569.5	570.7	572.0	573.2	574.2	574.9	575.6	576.3	577.0	577.6
132.5°	599.0	600.0	600.9	601.9	602.9	603.8	604.7	605.5	606.3	607.2	607.6
135°	646.9	647.2	647.6	647.9	648.3	648.8	649.5	650.2	650.9	651.6	651.9
137.5°	689.1	689.8	690.5	691.1	691.8	692.5	693.2	694.0	694.7	695.5	695.1
140°	716.7	718.0	719.2	720.4	721.7	722.4	722.5	722.8	722.9	723.1	722.9
142.5°	745.0	745.9	746.9	747.8	748.8	749.4	749.6	749.7	749.9	750.1	749.8
145°	785.7	786.4	787.1	787.8	788.5	789.0	789.2	789.4	789.6	789.7	789.2
147.5°	822.0	823.1	824.1	825.2	826.2	826.8	826.8	826.8	826.8	826.8	826.3
150°	845.1	846.2	847.2	848.3	849.4	849.9	849.9	849.9	849.9	849.9	849.5
152.5°	867.6	868.5	869.4	870.4	871.3	871.6	871.3	871.0	870.8	870.4	870.3
155°	898.1	899.4	900.6	901.8	903.1	903.3	902.6	901.9	901.2	900.5	900.3
157.5°	925.8	926.9	927.9	928.8	929.9	929.9	929.2	928.4	927.7	926.9	926.9
160°	943.8	944.5	945.2	945.9	946.7	946.6	945.7	944.8	943.9	943.0	943.0
162.5°	957.3	958.5	959.6	960.8	961.9	962.0	961.1	960.2	959.3	958.5	958.3
165°	976.8	977.9	979.2	980.5	981.8	981.8	980.7	979.7	978.6	977.6	977.6
167.5°	993.2	994.3	995.5	996.6	997.7	997.7	996.6	995.5	994.3	993.2	993.2
170°	1001.6	1002.8	1004.1	1005.4	1006.6	1006.6	1005.4	1004.1	1002.8	1001.6	1001.6
172.5°	1008.1	1009.2	1010.5	1011.8	1013.0	1013.1	1012.0	1010.9	1009.8	1008.7	1008.7
175°	1015.3	1016.5	1017.7	1019.0	1020.3	1020.3	1019.3	1018.2	1017.2	1016.1	1016.1
177.5°	1019.1	1020.1	1021.1	1022.1	1023.1	1023.2	1022.3	1021.4	1020.6	1019.8	1019.8
180°	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0
2.5°	882.5	879.9	877.2	872.6	868.6	862.9	861.3	859.3	853.3	848.0	844.1
5°	936.4	926.5	912.0	898.7	888.0	873.4	865.1	856.4	844.0	832.7	823.6
7.5°	992.8	973.3	950.7	926.3	903.6	881.7	864.0	848.3	830.8	814.4	801.5
10°	1037.6	1009.4	977.9	943.9	914.9	886.7	863.0	842.3	819.9	800.4	784.3
12.5°	1088.7	1046.9	1003.5	962.2	927.8	888.7	860.1	833.7	808.3	784.8	766.7
15°	1149.2	1096.1	1044.7	987.9	935.6	886.7	852.7	819.5	790.0	766.0	742.8
17.5°	1204.3	1144.1	1076.3	1007.3	944.2	886.2	838.6	801.1	764.2	734.8	711.7
20°	1235.5	1167.0	1090.3	1018.6	948.9	884.2	831.9	787.1	747.3	716.2	690.1
22.5°	1262.3	1182.3	1102.9	1026.2	948.6	878.8	819.7	773.6	730.4	700.0	672.2
25°	1290.2	1194.4	1114.8	1024.8	938.1	865.9	799.5	747.3	704.2	668.5	639.9
27.5°	1314.1	1193.6	1099.1	1002.3	921.7	849.4	778.5	722.5	676.7	637.9	608.9
30°	1330.0	1195.2	1082.8	987.1	905.8	831.1	762.2	705.8	657.7	618.4	591.0
32.5°	1340.0	1194.2	1067.9	965.8	880.5	814.5	744.7	686.3	636.8	598.1	571.7
35°	1345.8	1186.9	1042.2	921.9	839.8	775.5	717.1	656.5	604.7	568.5	538.8
37.5°	1334.2	1171.6	1012.3	879.6	789.7	726.4	677.2	625.7	576.1	536.3	510.6
40°	1315.9	1161.7	989.1	849.8	755.2	694.3	652.4	601.7	552.8	515.1	491.0
42.5°	1281.0	1141.4	963.5	816.6	719.4	658.4	619.9	577.6	531.2	495.8	471.8
45°	1196.0	1097.3	925.3	766.8	666.5	603.4	569.4	538.8	496.9	462.4	441.6
47.5°	1078.1	1031.1	869.8	714.3	611.2	550.6	515.2	490.5	459.9	432.1	412.3
50°	996.2	976.7	832.3	678.5	574.4	515.1	481.1	458.7	436.7	408.9	390.7
52.5°	901.6	913.6	788.5	641.4	536.9	478.6	446.6	428.8	408.8	386.0	370.1
55°	768.5	812.0	712.9	578.9	481.1	425.5	395.2	379.5	367.9	350.9	337.2
57.5°	643.8	699.3	631.1	514.7	426.3	378.3	349.3	332.1	324.6	315.8	305.0
60°	569.8	624.6	572.7	471.5	389.4	343.8	318.1	303.6	296.1	289.9	280.7
62.5°	503.8	559.2	515.6	427.8	353.2	310.9	288.6	274.4	268.5	265.3	257.5
65°	413.0	460.7	431.7	359.6	301.5	264.2	243.8	233.9	228.5	227.3	222.3
67.5°	336.2	372.5	351.3	298.3	252.5	220.3	203.0	194.6	190.4	190.0	186.3
70°	285.7	319.7	303.6	255.5	216.1	190.8	175.9	168.3	165.9	165.5	163.4
72.5°	246.6	270.3	257.5	217.3	186.9	163.9	153.0	145.1	142.4	142.9	141.5
75°	182.4	200.3	192.8	165.1	140.6	125.6	116.5	111.5	109.1	110.4	108.7
77.5°	131.3	142.6	135.9	116.6	101.6	90.7	84.1	81.0	78.7	78.7	77.9
80°	99.1	105.8	102.0	90.4	78.0	68.8	63.5	61.4	60.1	59.7	59.3
82.5°	70.6	76.2	71.9	63.8	55.4	49.9	46.9	44.1	43.3	43.5	43.0
85°	35.6	37.7	36.0	31.1	27.8	25.3	23.6	22.4	21.5	21.9	21.2
87.5°	15.2	15.1	13.6	11.9	10.9	9.5	9.1	8.2	7.8	8.2	8.2
90°	14.7	12.3	10.0	7.9	6.2	4.4	2.6	0.8	2.6	4.4	6.2
92.5°	28.2	26.9	25.5	24.2	23.1	21.9	20.6	19.4	20.6	21.9	23.1
95°	56.6	55.1	53.7	52.4	51.1	49.8	48.6	47.4	48.6	49.8	51.1
97.5°	90.9	89.8	88.8	87.9	86.9	86.0	85.0	84.1	85.0	86.0	86.9
100°	116.2	115.3	114.4	113.4	112.3	111.3	110.2	109.2	110.2	111.3	112.3
102.5°	143.9	142.7	141.5	140.6	140.0	139.3	138.7	138.1	138.7	139.3	140.0
105°	186.2	184.6	183.0	182.0	181.6	181.3	180.9	180.6	180.9	181.3	181.6
107.5°	232.6	232.0	231.3	230.8	230.7	230.4	230.2	230.0	230.2	230.4	230.7
110°	263.3	263.0	262.6	262.3	261.9	261.6	261.2	260.9	261.2	261.6	261.9





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	294.1	294.0	293.9	293.8	293.6	293.3	293.2	292.9	293.2	293.3	293.6
115°	342.6	342.9	343.3	343.3	342.7	342.1	341.6	341.1	341.6	342.1	342.7
117.5°	390.0	390.5	390.9	391.0	390.6	390.3	389.9	389.6	389.9	390.3	390.6
120°	422.3	423.2	424.1	424.1	422.9	421.9	420.8	419.8	420.8	421.9	422.9
122.5°	453.6	454.1	454.5	454.3	453.5	452.8	452.0	451.2	452.0	452.8	453.5
125°	500.7	501.1	501.5	501.4	500.8	500.3	499.7	499.2	499.7	500.3	500.8
127.5°	547.6	548.0	548.4	548.0	546.9	545.8	544.6	543.5	544.6	545.8	546.9
130°	578.1	578.7	579.2	578.8	577.3	575.9	574.5	573.1	574.5	575.9	577.3
132.5°	608.0	608.4	608.8	608.3	606.9	605.4	604.0	602.5	604.0	605.4	606.9
135°	652.0	652.2	652.4	652.0	650.9	649.8	648.7	647.7	648.7	649.8	650.9
137.5°	694.6	694.1	693.6	693.0	692.1	691.2	690.3	689.4	690.3	691.2	692.1
140°	722.8	722.5	722.4	721.8	721.0	720.1	719.2	718.3	719.2	720.1	721.0
142.5°	749.4	749.1	748.8	748.2	747.3	746.4	745.5	744.7	745.5	746.4	747.3
145°	788.7	788.1	787.6	787.1	786.8	786.4	786.1	785.7	786.1	786.4	786.8
147.5°	825.9	825.3	824.8	824.3	823.6	822.9	822.3	821.7	822.3	822.9	823.6
150°	849.2	848.8	848.5	848.1	847.8	847.4	847.1	846.7	847.1	847.4	847.8
152.5°	870.1	869.8	869.6	869.3	868.8	868.2	867.8	867.3	867.8	868.2	868.8
155°	900.2	899.9	899.8	899.7	899.7	899.7	899.7	899.7	899.7	899.7	899.7
157.5°	926.7	926.5	926.4	926.5	926.6	926.9	927.1	927.3	927.1	926.9	926.6
160°	943.0	943.0	943.0	943.2	943.6	943.9	944.3	944.6	944.3	943.9	943.6
162.5°	958.1	958.0	957.8	958.1	958.5	959.0	959.6	960.0	959.6	959.0	958.5
165°	977.6	977.6	977.6	977.8	978.3	978.9	979.4	979.9	979.4	978.9	978.3
167.5°	993.0	992.8	992.7	993.0	993.7	994.4	995.1	995.9	995.1	994.4	993.7
170°	1001.6	1001.6	1001.6	1002.0	1002.7	1003.4	1004.1	1004.8	1004.1	1003.4	1002.7
172.5°	1008.7	1008.7	1008.7	1009.0	1009.7	1010.4	1011.1	1011.9	1011.1	1010.4	1009.7
175°	1016.1	1016.1	1016.1	1016.4	1017.2	1017.9	1018.6	1019.3	1018.6	1017.9	1017.2
177.5°	1019.8	1019.8	1019.8	1020.0	1020.6	1021.2	1021.8	1022.3	1021.8	1021.2	1020.6
180°	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0
2.5°	841.7	839.4	836.1	831.1	827.1	820.8	820.8	821.8	821.8	821.5	820.8
5°	816.2	809.9	802.5	793.8	784.7	775.5	773.9	770.6	768.1	766.4	764.3
7.5°	789.3	778.2	767.3	755.1	744.0	734.8	728.4	723.1	719.7	716.1	713.4
10°	771.0	757.2	744.4	731.6	717.5	706.3	699.3	694.3	690.5	687.2	685.6
12.5°	749.4	733.7	719.5	707.3	691.9	680.4	673.7	671.4	666.9	660.0	656.3
15°	717.9	703.4	686.3	667.7	660.2	646.1	638.3	634.5	632.0	626.6	625.0
17.5°	690.9	671.9	652.8	638.9	625.0	613.6	609.2	604.6	601.3	596.8	595.6
20°	669.4	652.4	634.9	620.0	605.5	593.0	589.3	586.0	582.7	580.6	578.9
22.5°	647.5	630.5	616.0	602.1	586.6	578.5	574.4	570.8	568.4	567.0	565.4
25°	616.7	601.7	585.6	573.1	560.7	555.3	552.8	550.7	549.1	547.0	546.6
27.5°	589.1	572.9	559.8	548.2	539.2	534.7	532.3	531.3	531.7	532.4	532.9
30°	568.5	553.7	542.9	532.9	524.7	520.5	520.1	520.1	521.7	522.1	523.0
32.5°	549.7	537.4	526.6	517.0	510.7	507.9	509.5	509.5	510.8	511.8	513.3
35°	522.1	511.4	503.0	494.8	489.4	490.6	491.5	492.3	494.3	496.9	498.5
37.5°	495.8	486.5	477.8	471.3	468.9	471.1	473.1	474.8	477.3	479.2	480.9
40°	476.9	469.8	461.6	455.7	456.6	457.9	459.5	461.6	463.7	464.9	466.6
42.5°	459.3	451.9	445.7	440.8	442.0	443.6	444.6	445.7	448.1	450.3	451.3
45°	432.5	426.7	421.0	418.0	418.9	419.7	420.5	421.8	423.8	425.5	426.0
47.5°	402.4	398.4	394.5	391.7	393.0	392.7	393.7	396.4	397.0	398.1	400.4
50°	383.2	379.5	374.9	374.1	374.1	374.1	374.5	377.8	377.8	379.5	381.1
52.5°	361.9	359.6	356.6	355.1	354.5	354.5	356.2	357.9	358.5	360.9	362.6
55°	330.5	328.0	325.6	324.3	323.4	324.3	327.6	328.4	330.5	331.8	333.0
57.5°	297.8	295.9	293.9	293.2	293.0	294.1	296.0	298.4	299.0	302.8	304.7
60°	276.2	273.3	271.6	271.6	270.8	274.6	273.7	277.9	278.7	281.1	284.1
62.5°	254.0	250.1	249.4	249.4	250.6	251.7	252.8	254.6	256.8	259.9	262.2
65°	218.2	216.1	219.0	218.6	217.7	220.2	220.2	222.3	224.7	227.7	232.3
67.5°	184.2	183.2	183.4	183.4	184.7	186.1	187.2	189.0	192.0	195.1	198.0
70°	161.3	162.6	160.5	162.2	163.4	163.8	164.6	167.2	170.5	172.5	175.9
72.5°	139.1	139.0	139.3	139.9	141.2	141.9	142.8	145.6	149.2	151.0	153.6
75°	107.0	106.5	107.8	107.8	109.9	110.7	111.5	112.8	116.1	118.6	120.6
77.5°	78.1	78.7	78.3	79.8	79.2	79.4	81.9	83.2	83.5	88.4	89.5
80°	58.9	59.7	60.1	60.5	61.0	60.1	63.1	64.2	64.2	67.2	69.2
82.5°	42.3	42.8	43.9	44.3	44.4	45.2	45.5	46.3	47.4	48.6	51.3
85°	21.2	22.4	22.8	22.4	22.8	21.9	23.2	23.6	24.1	24.1	24.1
87.5°	8.2	9.0	9.1	9.9	10.1	10.9	10.9	10.5	10.6	11.7	10.5
90°	7.9	10.0	12.3	14.7	17.0	19.3	20.0	20.7	21.4	22.1	22.7
92.5°	24.2	25.5	26.9	28.2	29.5	30.8	31.4	31.9	32.6	33.1	33.3
95°	52.4	53.7	55.1	56.6	58.0	59.4	60.1	60.8	61.6	62.3	62.6
97.5°	87.9	88.8	89.8	90.9	91.9	92.9	93.8	94.6	95.4	96.3	96.6
100°	113.4	114.4	115.3	116.2	117.1	118.0	118.5	119.1	119.6	120.1	120.6
102.5°	140.6	141.5	142.7	143.9	145.0	146.2	146.8	147.3	147.8	148.4	148.6
105°	182.0	183.0	184.6	186.2	187.8	189.4	189.4	189.4	189.4	189.4	189.6
107.5°	230.8	231.3	232.0	232.6	233.2	233.9	234.4	235.0	235.6	236.1	236.3
110°	262.3	262.6	263.0	263.3	263.7	264.0	264.7	265.5	266.2	266.9	267.0



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	293.8	293.9	294.0	294.1	294.1	294.2	295.1	296.0	296.8	297.6	298.0
115°	343.3	343.3	342.9	342.6	342.2	341.9	342.1	342.2	342.5	342.6	342.6
117.5°	391.0	390.9	390.5	390.0	389.5	389.1	389.0	389.0	389.0	389.0	388.6
120°	424.1	424.1	423.2	422.3	421.4	420.6	420.3	420.2	420.0	419.9	419.5
122.5°	454.3	454.5	454.1	453.6	453.1	452.7	452.2	451.7	451.2	450.8	450.3
125°	501.4	501.5	501.1	500.7	500.3	500.0	499.3	498.6	497.9	497.2	496.5
127.5°	548.0	548.4	548.0	547.6	547.2	546.8	545.9	544.9	543.9	542.9	541.9
130°	578.8	579.2	578.7	578.1	577.6	577.0	576.3	575.6	574.9	574.2	573.2
132.5°	608.3	608.8	608.4	608.0	607.6	607.2	606.3	605.5	604.7	603.8	602.9
135°	652.0	652.4	652.2	652.0	651.9	651.6	650.9	650.2	649.5	648.8	648.3
137.5°	693.0	693.6	694.1	694.6	695.1	695.5	694.7	694.0	693.2	692.5	691.8
140°	721.8	722.4	722.5	722.8	722.9	723.1	722.9	722.8	722.5	722.4	721.7
142.5°	748.2	748.8	749.1	749.4	749.8	750.1	749.9	749.7	749.6	749.4	748.8
145°	787.1	787.6	788.1	788.7	789.2	789.7	789.6	789.4	789.2	789.0	788.5
147.5°	824.3	824.8	825.3	825.9	826.3	826.8	826.8	826.8	826.8	826.8	826.2
150°	848.1	848.5	848.8	849.2	849.5	849.9	849.9	849.9	849.9	849.9	849.4
152.5°	869.3	869.6	869.8	870.1	870.3	870.4	870.8	871.0	871.3	871.6	871.3
155°	899.7	899.8	899.9	900.2	900.3	900.5	901.2	901.9	902.6	903.3	903.1
157.5°	926.5	926.4	926.5	926.7	926.9	926.9	927.7	928.4	929.2	929.9	929.9
160°	943.2	943.0	943.0	943.0	943.0	943.0	943.9	944.8	945.7	946.6	946.7
162.5°	958.1	957.8	958.0	958.1	958.3	958.5	959.3	960.2	961.1	962.0	961.9
165°	977.8	977.6	977.6	977.6	977.6	977.6	978.6	979.7	980.7	981.8	981.8
167.5°	993.0	992.7	992.8	993.0	993.2	993.2	994.3	995.5	996.6	997.7	997.7
170°	1002.0	1001.6	1001.6	1001.6	1001.6	1001.6	1002.8	1004.1	1005.4	1006.6	1006.6
172.5°	1009.0	1008.7	1008.7	1008.7	1008.7	1008.7	1009.8	1010.9	1012.0	1013.1	1013.0
175°	1016.4	1016.1	1016.1	1016.1	1016.1	1016.1	1017.2	1018.2	1019.3	1020.3	1020.3
177.5°	1020.0	1019.8	1019.8	1019.8	1019.8	1019.8	1020.6	1021.4	1022.3	1023.2	1023.1
180°	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0
2.5°	818.5	818.2	820.5	818.8	820.5	818.2	818.5	820.8	821.5	821.8	821.8
5°	761.8	763.1	758.9	758.9	758.9	763.1	761.8	764.3	766.4	768.1	770.6
7.5°	711.4	709.6	709.7	707.5	709.7	709.6	711.4	713.4	716.1	719.7	723.1
10°	680.6	678.1	677.2	677.6	677.2	678.1	680.6	685.6	687.2	690.5	694.3
12.5°	655.0	654.5	649.0	649.1	649.0	654.5	655.0	656.3	660.0	666.9	671.4
15°	625.0	617.1	616.2	618.8	616.2	617.1	625.0	625.0	626.6	632.0	634.5
17.5°	594.8	590.7	591.0	589.7	591.0	590.7	594.8	595.6	596.8	601.3	604.6
20°	578.9	576.5	576.1	573.1	576.1	576.5	578.9	578.9	580.6	582.7	586.0
22.5°	564.4	563.6	563.8	560.5	563.8	563.6	564.4	565.4	567.0	568.4	570.8
25°	546.2	548.3	546.6	546.6	546.6	548.3	546.2	546.6	547.0	549.1	550.7
27.5°	533.9	533.9	533.0	533.0	533.0	533.9	533.9	532.9	532.4	531.7	531.3
30°	524.7	524.2	525.1	525.1	525.1	524.2	524.7	523.0	522.1	521.7	520.1
32.5°	515.3	515.9	516.1	516.4	516.1	515.9	515.3	513.3	511.8	510.8	509.5
35°	501.0	501.4	502.6	501.8	502.6	501.4	501.0	498.5	496.9	494.3	492.3
37.5°	481.6	483.5	483.1	483.7	483.1	483.5	481.6	480.9	479.2	477.3	474.8
40°	467.0	468.3	467.8	467.8	467.8	468.3	467.0	466.6	464.9	463.7	461.6
42.5°	452.0	453.0	451.9	451.2	451.9	453.0	452.0	451.3	450.3	448.1	445.7
45°	427.5	426.7	428.0	426.4	428.0	426.7	427.5	426.0	425.5	423.8	421.8
47.5°	400.2	401.0	401.4	402.6	401.4	401.0	400.2	400.4	398.1	397.0	396.4
50°	382.0	384.4	384.4	384.0	384.4	384.4	382.0	381.1	379.5	377.8	377.8
52.5°	364.0	365.2	366.9	366.8	366.9	365.2	364.0	362.6	360.9	358.5	357.9
55°	336.4	337.2	338.0	338.4	338.0	337.2	336.4	333.0	331.8	330.5	328.4
57.5°	307.6	307.3	309.3	309.9	309.3	307.3	307.6	304.7	302.8	299.0	298.4
60°	287.4	287.4	290.7	292.0	290.7	287.4	287.4	284.1	281.1	278.7	277.9
62.5°	265.9	267.2	270.5	268.7	270.5	267.2	265.9	262.2	259.9	256.8	254.6
65°	234.3	237.7	237.3	238.8	237.3	237.7	234.3	232.3	227.7	224.7	222.3
67.5°	201.4	203.4	206.4	206.7	206.4	203.4	201.4	198.0	195.1	192.0	189.0
70°	179.2	181.3	182.9	184.1	182.9	181.3	179.2	175.9	172.5	170.5	167.2
72.5°	157.6	158.7	162.6	160.9	162.6	158.7	157.6	153.6	151.0	149.2	145.6
75°	123.6	126.5	129.0	127.7	129.0	126.5	123.6	120.6	118.6	116.1	112.8
77.5°	91.4	94.3	95.5	94.4	95.5	94.3	91.4	89.5	88.4	83.5	83.2
80°	72.2	71.8	74.2	73.8	74.2	71.8	72.2	69.2	67.2	64.2	64.2
82.5°	52.9	52.5	53.6	53.9	53.6	52.5	52.9	51.3	48.6	47.4	46.3
85°	25.7	26.9	25.3	24.9	25.3	26.9	25.7	24.1	24.1	24.1	23.6
87.5°	10.5	10.6	10.4	10.1	10.4	10.6	10.5	10.5	11.7	10.6	10.5
90°	23.0	23.4	23.7	24.1	23.7	23.4	23.0	22.7	22.1	21.4	20.7
92.5°	33.0	32.9	32.6	32.4	32.6	32.9	33.0	33.3	33.1	32.6	31.9
95°	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.3	61.6	60.8
97.5°	96.5	96.5	96.4	96.3	96.4	96.5	96.5	96.6	96.3	95.4	94.6
100°	120.9	121.3	121.6	122.0	121.6	121.3	120.9	120.6	120.1	119.6	119.1
102.5°	148.5	148.5	148.4	148.3	148.4	148.5	148.5	148.6	148.4	147.8	147.3
105°	190.0	190.3	190.7	191.0	190.7	190.3	190.0	189.6	189.4	189.4	189.4
107.5°	236.1	235.9	235.7	235.4	235.7	235.9	236.1	236.3	236.1	235.6	235.0
110°	266.7	266.3	266.0	265.6	266.0	266.3	266.7	267.0	266.9	266.2	265.5



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	297.9	297.9	297.9	297.8	297.9	297.9	297.9	298.0	297.6	296.8	296.0
115°	342.5	342.2	342.1	341.9	342.1	342.2	342.5	342.6	342.6	342.5	342.2
117.5°	388.2	387.7	387.1	386.7	387.1	387.7	388.2	388.6	389.0	389.0	389.0
120°	419.2	418.8	418.5	418.1	418.5	418.8	419.2	419.5	419.9	420.0	420.2
122.5°	449.8	449.3	448.9	448.3	448.9	449.3	449.8	450.3	450.8	451.2	451.7
125°	495.7	495.0	494.3	493.6	494.3	495.0	495.7	496.5	497.2	497.9	498.6
127.5°	541.1	540.3	539.5	538.7	539.5	540.3	541.1	541.9	542.9	543.9	544.9
130°	572.0	570.7	569.5	568.2	569.5	570.7	572.0	573.2	574.2	574.9	575.6
132.5°	601.9	600.9	600.0	599.0	600.0	600.9	601.9	602.9	603.8	604.7	605.5
135°	647.9	647.6	647.2	646.9	647.2	647.6	647.9	648.3	648.8	649.5	650.2
137.5°	691.1	690.5	689.8	689.1	689.8	690.5	691.1	691.8	692.5	693.2	694.0
140°	720.4	719.2	718.0	716.7	718.0	719.2	720.4	721.7	722.4	722.5	722.8
142.5°	747.8	746.9	745.9	745.0	745.9	746.9	747.8	748.8	749.4	749.6	749.7
145°	787.8	787.1	786.4	785.7	786.4	787.1	787.8	788.5	789.0	789.2	789.4
147.5°	825.2	824.1	823.1	822.0	823.1	824.1	825.2	826.2	826.8	826.8	826.8
150°	848.3	847.2	846.2	845.1	846.2	847.2	848.3	849.4	849.9	849.9	849.9
152.5°	870.4	869.4	868.5	867.6	868.5	869.4	870.4	871.3	871.6	871.3	871.0
155°	901.8	900.6	899.4	898.1	899.4	900.6	901.8	903.1	903.3	902.6	901.9
157.5°	928.8	927.9	926.9	925.8	926.9	927.9	928.8	929.9	929.9	929.2	928.4
160°	945.9	945.2	944.5	943.8	944.5	945.2	945.9	946.7	946.6	945.7	944.8
162.5°	960.8	959.6	958.5	957.3	958.5	959.6	960.8	961.9	962.0	961.1	960.2
165°	980.5	979.2	977.9	976.8	977.9	979.2	980.5	981.8	981.8	980.7	979.7
167.5°	996.6	995.5	994.3	993.2	994.3	995.5	996.6	997.7	997.7	996.6	995.5
170°	1005.4	1004.1	1002.8	1001.6	1002.8	1004.1	1005.4	1006.6	1006.6	1005.4	1004.1
172.5°	1011.8	1010.5	1009.2	1008.1	1009.2	1010.5	1011.8	1013.0	1013.1	1012.0	1010.9
175°	1019.0	1017.7	1016.5	1015.3	1016.5	1017.7	1019.0	1020.3	1020.3	1019.3	1018.2
177.5°	1022.1	1021.1	1020.1	1019.1	1020.1	1021.1	1022.1	1023.1	1023.2	1022.3	1021.4
180°	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7



TEST NUMBER: P332163-927

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0
2.5°	820.8	820.8	827.1	831.1	836.1	839.4	841.7	844.1	848.0	853.3	859.3
5°	773.9	775.5	784.7	793.8	802.5	809.9	816.2	823.6	832.7	844.0	856.4
7.5°	728.4	734.8	744.0	755.1	767.3	778.2	789.3	801.5	814.4	830.8	848.3
10°	699.3	706.3	717.5	731.6	744.4	757.2	771.0	784.3	800.4	819.9	842.3
12.5°	673.7	680.4	691.9	707.3	719.5	733.7	749.4	766.7	784.8	808.3	833.7
15°	638.3	646.1	660.2	667.7	686.3	703.4	717.9	742.8	766.0	790.0	819.5
17.5°	609.2	613.6	625.0	638.9	652.8	671.9	690.9	711.7	734.8	764.2	801.1
20°	589.3	593.0	605.5	620.0	634.9	652.4	669.4	690.1	716.2	747.3	787.1
22.5°	574.4	578.5	586.6	602.1	616.0	630.5	647.5	672.2	700.0	730.4	773.6
25°	552.8	555.3	560.7	573.1	585.6	601.7	616.7	639.9	668.5	704.2	747.3
27.5°	532.3	534.7	539.2	548.2	559.8	572.9	589.1	608.9	637.9	676.7	722.5
30°	520.1	520.5	524.7	532.9	542.9	553.7	568.5	591.0	618.4	657.7	705.8
32.5°	509.5	507.9	510.7	517.0	526.6	537.4	549.7	571.7	598.1	636.8	686.3
35°	491.5	490.6	489.4	494.8	503.0	511.4	522.1	538.8	568.5	604.7	656.5
37.5°	473.1	471.1	468.9	471.3	477.8	486.5	495.8	510.6	536.3	576.1	625.7
40°	459.5	457.9	456.6	455.7	461.6	469.8	476.9	491.0	515.1	552.8	601.7
42.5°	444.6	443.6	442.0	440.8	445.7	451.9	459.3	471.8	495.8	531.2	577.6
45°	420.5	419.7	418.9	418.0	421.0	426.7	432.5	441.6	462.4	496.9	538.8
47.5°	393.7	392.7	393.0	391.7	394.5	398.4	402.4	412.3	432.1	459.9	490.5
50°	374.5	374.1	374.1	374.1	374.9	379.5	383.2	390.7	408.9	436.7	458.7
52.5°	356.2	354.5	354.5	355.1	356.6	359.6	361.9	370.1	386.0	408.8	428.8
55°	327.6	324.3	323.4	324.3	325.6	328.0	330.5	337.2	350.9	367.9	379.5
57.5°	296.0	294.1	293.0	293.2	293.9	295.9	297.8	305.0	315.8	324.6	332.1
60°	273.7	274.6	270.8	271.6	271.6	273.3	276.2	280.7	289.9	296.1	303.6
62.5°	252.8	251.7	250.6	249.4	249.4	250.1	254.0	257.5	265.3	268.5	274.4
65°	220.2	220.2	217.7	218.6	219.0	216.1	218.2	222.3	227.3	228.5	233.9
67.5°	187.2	186.1	184.7	183.4	183.4	183.2	184.2	186.3	190.0	190.4	194.6
70°	164.6	163.8	163.4	162.2	160.5	162.6	161.3	163.4	165.5	165.9	168.3
72.5°	142.8	141.9	141.2	139.9	139.3	139.0	139.1	141.5	142.9	142.4	145.1
75°	111.5	110.7	109.9	107.8	107.8	106.5	107.0	108.7	110.4	109.1	111.5
77.5°	81.9	79.4	79.2	79.8	78.3	78.7	78.1	77.9	78.7	78.7	81.0
80°	63.1	60.1	61.0	60.5	60.1	59.7	58.9	59.3	59.7	60.1	61.4
82.5°	45.5	45.2	44.4	44.3	43.9	42.8	42.3	43.0	43.5	43.3	44.1
85°	23.2	21.9	22.8	22.4	22.8	22.4	21.2	21.2	21.9	21.5	22.4
87.5°	10.9	10.9	10.1	9.9	9.1	9.0	8.2	8.2	8.2	7.8	8.2
90°	20.0	19.3	17.0	14.7	12.3	10.0	7.9	6.2	4.4	2.6	0.8
92.5°	31.4	30.8	29.5	28.2	26.9	25.5	24.2	23.1	21.9	20.6	19.4
95°	60.1	59.4	58.0	56.6	55.1	53.7	52.4	51.1	49.8	48.6	47.4
97.5°	93.8	92.9	91.9	90.9	89.8	88.8	87.9	86.9	86.0	85.0	84.1
100°	118.5	118.0	117.1	116.2	115.3	114.4	113.4	112.3	111.3	110.2	109.2
102.5°	146.8	146.2	145.0	143.9	142.7	141.5	140.6	140.0	139.3	138.7	138.1
105°	189.4	189.4	187.8	186.2	184.6	183.0	182.0	181.6	181.3	180.9	180.6
107.5°	234.4	233.9	233.2	232.6	232.0	231.3	230.8	230.7	230.4	230.2	230.0
110°	264.7	264.0	263.7	263.3	263.0	262.6	262.3	261.9	261.6	261.2	260.9



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	295.1	294.2	294.1	294.1	294.0	293.9	293.8	293.6	293.3	293.2	292.9
115°	342.1	341.9	342.2	342.6	342.9	343.3	343.3	342.7	342.1	341.6	341.1
117.5°	389.0	389.1	389.5	390.0	390.5	390.9	391.0	390.6	390.3	389.9	389.6
120°	420.3	420.6	421.4	422.3	423.2	424.1	424.1	422.9	421.9	420.8	419.8
122.5°	452.2	452.7	453.1	453.6	454.1	454.5	454.3	453.5	452.8	452.0	451.2
125°	499.3	500.0	500.3	500.7	501.1	501.5	501.4	500.8	500.3	499.7	499.2
127.5°	545.9	546.8	547.2	547.6	548.0	548.4	548.0	546.9	545.8	544.6	543.5
130°	576.3	577.0	577.6	578.1	578.7	579.2	578.8	577.3	575.9	574.5	573.1
132.5°	606.3	607.2	607.6	608.0	608.4	608.8	608.3	606.9	605.4	604.0	602.5
135°	650.9	651.6	651.9	652.0	652.2	652.4	652.0	650.9	649.8	648.7	647.7
137.5°	694.7	695.5	695.1	694.6	694.1	693.6	693.0	692.1	691.2	690.3	689.4
140°	722.9	723.1	722.9	722.8	722.5	722.4	721.8	721.0	720.1	719.2	718.3
142.5°	749.9	750.1	749.8	749.4	749.1	748.8	748.2	747.3	746.4	745.5	744.7
145°	789.6	789.7	789.2	788.7	788.1	787.6	787.1	786.8	786.4	786.1	785.7
147.5°	826.8	826.8	826.3	825.9	825.3	824.8	824.3	823.6	822.9	822.3	821.7
150°	849.9	849.9	849.5	849.2	848.8	848.5	848.1	847.8	847.4	847.1	846.7
152.5°	870.8	870.4	870.3	870.1	869.8	869.6	869.3	868.8	868.2	867.8	867.3
155°	901.2	900.5	900.3	900.2	899.9	899.8	899.7	899.7	899.7	899.7	899.7
157.5°	927.7	926.9	926.9	926.7	926.5	926.4	926.5	926.6	926.9	927.1	927.3
160°	943.9	943.0	943.0	943.0	943.0	943.0	943.2	943.6	943.9	944.3	944.6
162.5°	959.3	958.5	958.3	958.1	958.0	957.8	958.1	958.5	959.0	959.6	960.0
165°	978.6	977.6	977.6	977.6	977.6	977.6	977.8	978.3	978.9	979.4	979.9
167.5°	994.3	993.2	993.2	993.0	992.8	992.7	993.0	993.7	994.4	995.1	995.9
170°	1002.8	1001.6	1001.6	1001.6	1001.6	1001.6	1002.0	1002.7	1003.4	1004.1	1004.8
172.5°	1009.8	1008.7	1008.7	1008.7	1008.7	1008.7	1009.0	1009.7	1010.4	1011.1	1011.9
175°	1017.2	1016.1	1016.1	1016.1	1016.1	1016.1	1016.4	1017.2	1017.9	1018.6	1019.3
177.5°	1020.6	1019.8	1019.8	1019.8	1019.8	1019.8	1020.0	1020.6	1021.2	1021.8	1022.3
180°	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0
2.5°	861.3	862.9	868.6	872.6	877.2	879.9	882.5	884.6	887.2	887.8	897.5
5°	865.1	873.4	888.0	898.7	912.0	926.5	936.4	941.0	953.0	963.0	982.9
7.5°	864.0	881.7	903.6	926.3	950.7	973.3	992.8	1016.1	1032.6	1057.4	1081.8
10°	863.0	886.7	914.9	943.9	977.9	1009.4	1037.6	1069.1	1095.3	1129.7	1159.1
12.5°	860.1	888.7	927.8	962.2	1003.5	1046.9	1088.7	1129.2	1152.3	1209.7	1236.8
15°	852.7	886.7	935.6	987.9	1044.7	1096.1	1149.2	1191.5	1259.9	1310.1	1342.0
17.5°	838.6	886.2	944.2	1007.3	1076.3	1144.1	1204.3	1268.4	1341.0	1401.8	1466.5
20°	831.9	884.2	948.9	1018.6	1090.3	1167.0	1235.5	1312.6	1391.8	1451.5	1534.5
22.5°	819.7	878.8	948.6	1026.2	1102.9	1182.3	1262.3	1340.1	1431.6	1513.9	1592.8
25°	799.5	865.9	938.1	1024.8	1114.8	1194.4	1290.2	1393.4	1488.8	1594.6	1673.4
27.5°	778.5	849.4	921.7	1002.3	1099.1	1193.6	1314.1	1430.8	1547.4	1638.7	1697.0
30°	762.2	831.1	905.8	987.1	1082.8	1195.2	1330.0	1457.3	1571.0	1649.3	1682.1
32.5°	744.7	814.5	880.5	965.8	1067.9	1194.2	1340.0	1472.9	1572.3	1624.4	1618.1
35°	717.1	775.5	839.8	921.9	1042.2	1186.9	1345.8	1474.3	1535.3	1524.1	1439.5
37.5°	677.2	726.4	789.7	879.6	1012.3	1171.6	1334.2	1430.6	1426.6	1335.5	1212.9
40°	652.4	694.3	755.2	849.8	989.1	1161.7	1315.9	1378.6	1325.5	1198.1	1051.3
42.5°	619.9	658.4	719.4	816.6	963.5	1141.4	1281.0	1299.3	1195.4	1048.8	914.3
45°	569.4	603.4	666.5	766.8	925.3	1097.3	1196.0	1151.7	1011.9	860.5	758.1
47.5°	515.2	550.6	611.2	714.3	869.8	1031.1	1078.1	983.7	840.2	717.5	623.4
50°	481.1	515.1	574.4	678.5	832.3	976.7	996.2	874.3	742.4	634.5	557.4
52.5°	446.6	478.6	536.9	641.4	788.5	913.6	901.6	777.4	656.1	564.2	503.7
55°	395.2	425.5	481.1	578.9	712.9	812.0	768.5	649.9	549.5	478.2	432.1
57.5°	349.3	378.3	426.3	514.7	631.1	699.3	643.8	543.8	464.1	409.2	374.9
60°	318.1	343.8	389.4	471.5	572.7	624.6	569.8	481.5	414.3	370.3	339.7
62.5°	288.6	310.9	353.2	427.8	515.6	559.2	503.8	429.0	371.9	332.9	306.8
65°	243.8	264.2	301.5	359.6	431.7	460.7	413.0	352.5	308.2	279.1	261.7
67.5°	203.0	220.3	252.5	298.3	351.3	372.5	336.2	289.3	255.9	232.6	218.7
70°	175.9	190.8	216.1	255.5	303.6	319.7	285.7	247.2	222.7	204.1	191.2
72.5°	153.0	163.9	186.9	217.3	257.5	270.3	246.6	212.7	189.9	175.9	165.6
75°	116.5	125.6	140.6	165.1	192.8	200.3	182.4	161.3	146.0	136.0	128.2
77.5°	84.1	90.7	101.6	116.6	135.9	142.6	131.3	117.2	106.0	99.3	94.9
80°	63.5	68.8	78.0	90.4	102.0	105.8	99.1	88.3	80.5	76.8	73.0
82.5°	46.9	49.9	55.4	63.8	71.9	76.2	70.6	64.1	59.9	56.5	55.1
85°	23.6	25.3	27.8	31.1	36.0	37.7	35.6	34.0	31.5	29.5	29.5
87.5°	9.1	9.5	10.9	11.9	13.6	15.1	15.2	15.0	15.1	15.0	14.7
90°	2.6	4.4	6.2	7.9	10.0	12.3	14.7	17.0	19.3	20.0	20.7
92.5°	20.6	21.9	23.1	24.2	25.5	26.9	28.2	29.5	30.8	31.4	31.9
95°	48.6	49.8	51.1	52.4	53.7	55.1	56.6	58.0	59.4	60.1	60.8
97.5°	85.0	86.0	86.9	87.9	88.8	89.8	90.9	91.9	92.9	93.8	94.6
100°	110.2	111.3	112.3	113.4	114.4	115.3	116.2	117.1	118.0	118.5	119.1
102.5°	138.7	139.3	140.0	140.6	141.5	142.7	143.9	145.0	146.2	146.8	147.3
105°	180.9	181.3	181.6	182.0	183.0	184.6	186.2	187.8	189.4	189.4	189.4
107.5°	230.2	230.4	230.7	230.8	231.3	232.0	232.6	233.2	233.9	234.4	235.0
110°	261.2	261.6	261.9	262.3	262.6	263.0	263.3	263.7	264.0	264.7	265.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	293.2	293.3	293.6	293.8	293.9	294.0	294.1	294.1	294.2	295.1	296.0
115°	341.6	342.1	342.7	343.3	343.3	342.9	342.6	342.2	341.9	342.1	342.2
117.5°	389.9	390.3	390.6	391.0	390.9	390.5	390.0	389.5	389.1	389.0	389.0
120°	420.8	421.9	422.9	424.1	424.1	423.2	422.3	421.4	420.6	420.3	420.2
122.5°	452.0	452.8	453.5	454.3	454.5	454.1	453.6	453.1	452.7	452.2	451.7
125°	499.7	500.3	500.8	501.4	501.5	501.1	500.7	500.3	500.0	499.3	498.6
127.5°	544.6	545.8	546.9	548.0	548.4	548.0	547.6	547.2	546.8	545.9	544.9
130°	574.5	575.9	577.3	578.8	579.2	578.7	578.1	577.6	577.0	576.3	575.6
132.5°	604.0	605.4	606.9	608.3	608.8	608.4	608.0	607.6	607.2	606.3	605.5
135°	648.7	649.8	650.9	652.0	652.4	652.2	652.0	651.9	651.6	650.9	650.2
137.5°	690.3	691.2	692.1	693.0	693.6	694.1	694.6	695.1	695.5	694.7	694.0
140°	719.2	720.1	721.0	721.8	722.4	722.5	722.8	722.9	723.1	722.9	722.8
142.5°	745.5	746.4	747.3	748.2	748.8	749.1	749.4	749.8	750.1	749.9	749.7
145°	786.1	786.4	786.8	787.1	787.6	788.1	788.7	789.2	789.7	789.6	789.4
147.5°	822.3	822.9	823.6	824.3	824.8	825.3	825.9	826.3	826.8	826.8	826.8
150°	847.1	847.4	847.8	848.1	848.5	848.8	849.2	849.5	849.9	849.9	849.9
152.5°	867.8	868.2	868.8	869.3	869.6	869.8	870.1	870.3	870.4	870.8	871.0
155°	899.7	899.7	899.7	899.7	899.8	899.9	900.2	900.3	900.5	901.2	901.9
157.5°	927.1	926.9	926.6	926.5	926.4	926.5	926.7	926.9	926.9	927.7	928.4
160°	944.3	943.9	943.6	943.2	943.0	943.0	943.0	943.0	943.0	943.9	944.8
162.5°	959.6	959.0	958.5	958.1	957.8	958.0	958.1	958.3	958.5	959.3	960.2
165°	979.4	978.9	978.3	977.8	977.6	977.6	977.6	977.6	977.6	978.6	979.7
167.5°	995.1	994.4	993.7	993.0	992.7	992.8	993.0	993.2	993.2	994.3	995.5
170°	1004.1	1003.4	1002.7	1002.0	1001.6	1001.6	1001.6	1001.6	1001.6	1002.8	1004.1
172.5°	1011.1	1010.4	1009.7	1009.0	1008.7	1008.7	1008.7	1008.7	1008.7	1009.8	1010.9
175°	1018.6	1017.9	1017.2	1016.4	1016.1	1016.1	1016.1	1016.1	1016.1	1017.2	1018.2
177.5°	1021.8	1021.2	1020.6	1020.0	1019.8	1019.8	1019.8	1019.8	1019.8	1020.6	1021.4
180°	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	856.0	856.0	856.0	856.0	856.0	856.0	856.0
2.5°	900.8	901.1	904.8	907.4	906.1	907.8	908.4
5°	984.1	999.1	1006.9	1012.7	1013.2	1013.6	1016.9
7.5°	1102.3	1118.3	1130.0	1147.8	1153.1	1159.1	1157.4
10°	1188.6	1212.2	1232.6	1243.3	1255.0	1271.9	1258.3
12.5°	1269.2	1311.1	1342.0	1358.8	1369.8	1373.2	1366.4
15°	1402.2	1456.9	1486.4	1485.5	1522.9	1539.1	1513.7
17.5°	1524.1	1574.6	1615.1	1635.9	1666.9	1673.8	1670.6
20°	1598.8	1653.9	1685.4	1721.1	1737.3	1751.8	1754.3
22.5°	1663.1	1712.6	1746.4	1776.2	1789.7	1796.6	1800.7
25°	1729.4	1768.4	1788.7	1799.0	1802.8	1802.0	1796.6
27.5°	1724.8	1727.8	1705.4	1683.5	1663.8	1641.6	1634.0
30°	1680.1	1645.2	1583.0	1547.8	1495.9	1454.8	1471.4
32.5°	1562.3	1492.9	1423.1	1346.0	1282.2	1264.1	1245.8
35°	1333.3	1211.4	1140.1	1057.1	1024.0	990.8	968.0
37.5°	1078.7	984.4	899.8	845.5	812.3	791.3	780.0
40°	932.7	847.7	778.0	734.0	708.8	685.2	681.8
42.5°	816.3	737.2	684.8	649.7	625.5	615.4	608.2
45°	668.5	613.4	578.1	553.3	537.1	530.8	522.5
47.5°	565.9	526.9	500.4	483.5	471.3	466.7	466.0
50°	508.4	476.1	456.6	443.3	433.8	432.1	425.5
52.5°	465.3	437.3	422.1	410.5	403.6	398.9	397.0
55°	403.9	385.2	371.6	365.0	359.6	355.0	355.0
57.5°	353.4	337.9	328.8	323.1	321.5	318.2	316.2
60°	322.3	309.0	301.9	296.9	293.7	294.1	290.3
62.5°	291.7	283.1	276.4	271.4	267.4	267.5	267.8
65°	248.4	241.8	236.8	235.1	232.7	229.7	230.6
67.5°	210.5	204.3	200.4	197.6	196.8	195.2	197.6
70°	183.3	178.7	175.9	173.3	172.5	172.9	175.0
72.5°	158.4	155.2	153.3	152.1	150.3	150.4	151.8
75°	124.5	121.9	120.3	119.0	118.6	118.6	118.6
77.5°	91.4	90.9	90.1	88.2	88.3	88.8	88.9
80°	72.2	70.9	70.5	69.7	68.4	67.6	69.7
82.5°	53.9	52.7	52.3	52.1	50.1	50.0	51.7
85°	29.0	27.8	28.2	27.8	27.8	27.4	27.4
87.5°	14.6	14.3	14.2	14.6	14.3	14.0	14.7
90°	21.4	22.1	22.7	23.0	23.4	23.7	24.1
92.5°	32.6	33.1	33.3	33.0	32.9	32.6	32.4
95°	61.6	62.3	62.6	62.6	62.6	62.6	62.6
97.5°	95.4	96.3	96.6	96.5	96.5	96.4	96.3
100°	119.6	120.1	120.6	120.9	121.3	121.6	122.0
102.5°	147.8	148.4	148.6	148.5	148.5	148.4	148.3
105°	189.4	189.4	189.6	190.0	190.3	190.7	191.0
107.5°	235.6	236.1	236.3	236.1	235.9	235.7	235.4
110°	266.2	266.9	267.0	266.7	266.3	266.0	265.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	296.8	297.6	298.0	297.9	297.9	297.9	297.8
115°	342.5	342.6	342.6	342.5	342.2	342.1	341.9
117.5°	389.0	389.0	388.6	388.2	387.7	387.1	386.7
120°	420.0	419.9	419.5	419.2	418.8	418.5	418.1
122.5°	451.2	450.8	450.3	449.8	449.3	448.9	448.3
125°	497.9	497.2	496.5	495.7	495.0	494.3	493.6
127.5°	543.9	542.9	541.9	541.1	540.3	539.5	538.7
130°	574.9	574.2	573.2	572.0	570.7	569.5	568.2
132.5°	604.7	603.8	602.9	601.9	600.9	600.0	599.0
135°	649.5	648.8	648.3	647.9	647.6	647.2	646.9
137.5°	693.2	692.5	691.8	691.1	690.5	689.8	689.1
140°	722.5	722.4	721.7	720.4	719.2	718.0	716.7
142.5°	749.6	749.4	748.8	747.8	746.9	745.9	745.0
145°	789.2	789.0	788.5	787.8	787.1	786.4	785.7
147.5°	826.8	826.8	826.2	825.2	824.1	823.1	822.0
150°	849.9	849.9	849.4	848.3	847.2	846.2	845.1
152.5°	871.3	871.6	871.3	870.4	869.4	868.5	867.6
155°	902.6	903.3	903.1	901.8	900.6	899.4	898.1
157.5°	929.2	929.9	929.9	928.8	927.9	926.9	925.8
160°	945.7	946.6	946.7	945.9	945.2	944.5	943.8
162.5°	961.1	962.0	961.9	960.8	959.6	958.5	957.3
165°	980.7	981.8	981.8	980.5	979.2	977.9	976.8
167.5°	996.6	997.7	997.7	996.6	995.5	994.3	993.2
170°	1005.4	1006.6	1006.6	1005.4	1004.1	1002.8	1001.6
172.5°	1012.0	1013.1	1013.0	1011.8	1010.5	1009.2	1008.1
175°	1019.3	1020.3	1020.3	1019.0	1017.7	1016.5	1015.3
177.5°	1022.3	1023.2	1023.1	1022.1	1021.1	1020.1	1019.1
180°	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7	1021.7

(END OF REPORT)