

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: P331652-840

Luminaire Tested: **SA2XXRDIP-C485D530U840-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331652-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXRDIP-C485D530U840-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 530 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

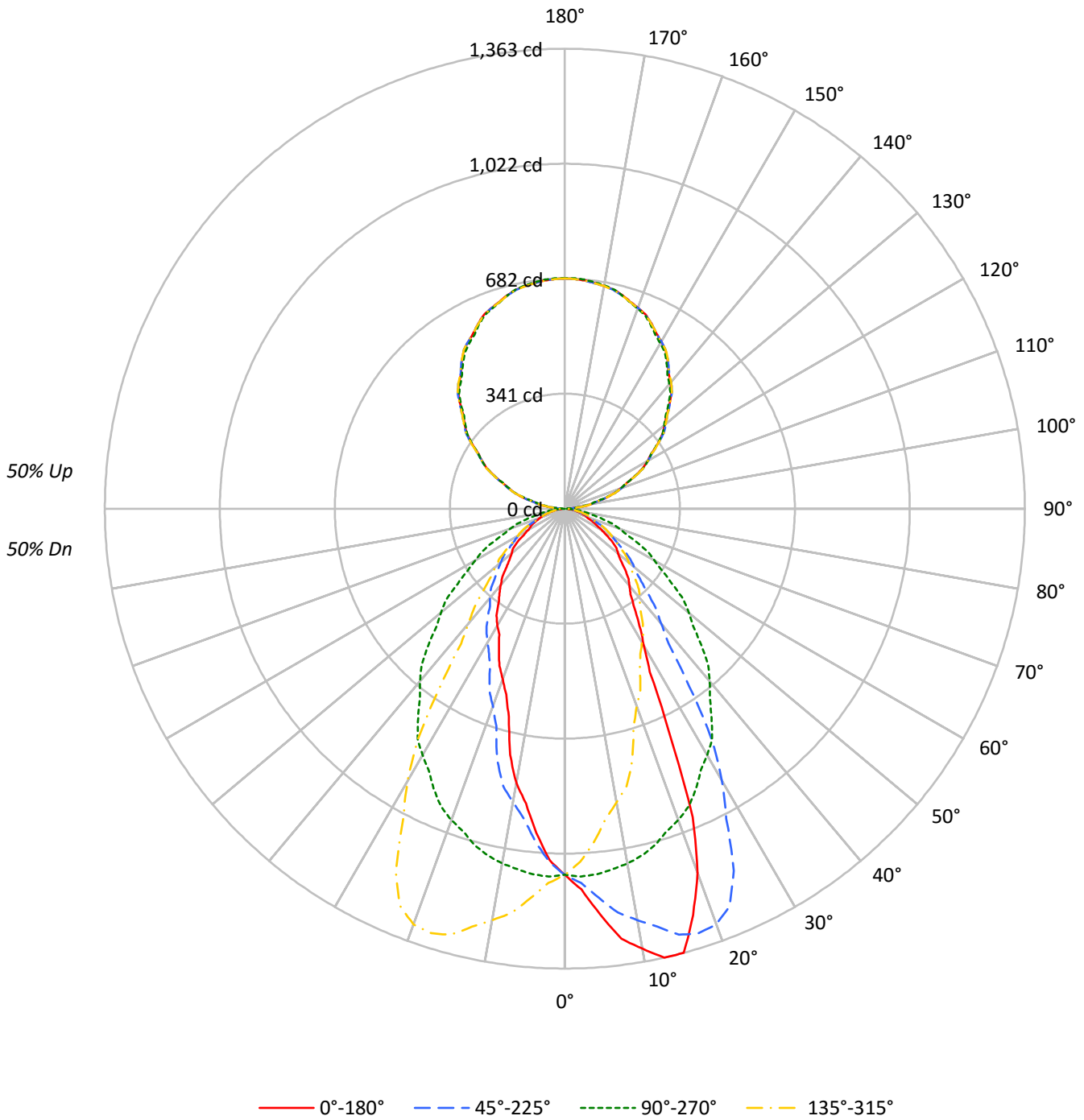
Lumens per Lamp: N/A  
Luminaire Lumens: 3786.6 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 32.8  
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	94	91	88	91	87	84	81	74	72	70	62	60	59	50	49	49	43
2	90	83	78	73	83	77	72	68	66	62	59	55	53	50	45	44	42	38
3	83	74	67	62	76	69	63	58	59	54	51	50	46	44	41	39	37	33
4	76	66	59	53	70	62	55	50	53	48	44	45	41	38	37	35	33	29
5	70	59	52	46	65	55	49	44	48	43	39	41	37	34	34	31	29	26
6	65	54	46	40	60	50	43	38	43	38	34	37	33	30	31	28	26	23
7	61	49	41	36	56	46	39	34	40	34	30	34	30	27	29	26	23	21
8	56	45	37	32	52	42	35	31	36	31	27	31	27	24	27	24	21	19
9	53	41	34	29	49	38	32	28	34	28	25	29	25	22	25	22	20	17
10	49	38	31	26	46	35	29	25	31	26	23	27	23	20	23	20	18	16

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

	0°	90°	180°	270°
0°	17525	17525	17525	17525
5°	19571	17634	15635	17634
10°	21713	17510	13554	17510
15°	22781	17254	10678	17254
20°	19749	16873	9241	16873
25°	12953	16352	8250	16352
30°	8720	15720	7467	15720
35°	7062	14927	6733	14927
40°	6279	14060	6232	14060
45°	5683	13047	5562	13047
50°	5172	12039	5152	12039
55°	4861	10925	4799	10925
60°	4066	9901	4017	9901
65°	3431	8989	3889	8989
70°	3172	8030	3668	8030
75°	2969	6987	3387	6987
80°	2734	5746	3013	5746
85°	2501	4539	2649	4539



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.9	2.7
10°-20°	286.7	7.6
20°-30°	369.4	9.8
30°-40°	351.1	9.3
40°-50°	300.7	7.9
50°-60°	229.0	6.0
60°-70°	144.8	3.8
70°-80°	72.3	1.9
80°-90°	21.5	0.6
90°-100°	43.3	1.1
100°-110°	134.3	3.5
110°-120°	229.6	6.1
120°-130°	301.9	8.0
130°-140°	338.8	8.9
140°-150°	332.2	8.8
150°-160°	278.7	7.4
160°-170°	184.8	4.9
170°-180°	64.6	1.7
0°-30°	759.0	20.0
0°-40°	1110.1	29.3
0°-60°	1639.8	43.3
0°-90°	1878.5	49.6
90°-120°	407.1	10.8
90°-150°	1380.1	36.4
90°-180°	1908.0	50.4
0°-180°	3786.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1085	1085	1085	1085	1085	
5°	1208	1088	965	1088	1208	119
15°	1363	1032	639	1032	1363	368
25°	727	918	463	918	727	345
35°	358	757	342	757	358	229
45°	249	571	244	571	249	193
55°	173	388	170	388	173	152
65°	90	235	102	235	90	91
75°	48	112	54	112	48	50
85°	14	24	14	24	14	15
90°	20	1	20	1	20	9
95°	36	30	36	30	36	40
105°	128	124	128	124	128	134
115°	230	230	230	230	230	227
125°	336	335	336	335	336	300
135°	439	434	439	434	439	338
145°	532	526	532	526	532	332
155°	606	602	606	602	606	279
165°	655	655	655	655	655	185
175°	679	681	679	681	679	65
180°	682	682	682	682	682	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1129.4	1130.3	1131.3	1129.1	1129.1	1127.3	1123.4	1120.3	1111.9	1110.6	1110.6
5°	1207.5	1206.8	1208.3	1203.4	1196.6	1195.1	1187.9	1178.5	1168.7	1157.7	1155.5
7.5°	1285.3	1284.1	1281.1	1280.2	1275.1	1263.6	1252.1	1239.8	1223.6	1207.6	1199.6
10°	1324.4	1336.9	1329.4	1316.2	1318.8	1301.1	1291.6	1275.5	1261.8	1238.1	1232.8
12.5°	1363.0	1368.0	1365.5	1358.1	1354.7	1342.4	1329.7	1315.6	1290.5	1269.2	1250.6
15°	1362.9	1370.1	1372.0	1369.7	1371.6	1370.8	1364.0	1352.3	1330.5	1307.1	1286.8
17.5°	1262.3	1267.3	1279.6	1288.0	1298.6	1320.9	1331.9	1336.3	1332.9	1319.6	1305.3
20°	1149.4	1141.1	1175.9	1193.6	1208.7	1246.4	1278.8	1291.2	1311.2	1310.9	1307.1
22.5°	989.6	991.5	1024.4	1045.4	1089.5	1127.2	1164.2	1211.0	1249.7	1275.3	1290.2
25°	727.1	741.4	774.3	802.8	851.9	922.1	985.8	1059.8	1129.4	1184.6	1237.0
27.5°	546.0	547.1	573.1	599.7	628.7	686.2	766.5	854.7	954.2	1036.2	1130.6
30°	467.7	465.3	476.4	492.5	517.5	561.9	622.3	709.0	808.2	931.9	1042.0
32.5°	412.1	412.2	420.5	432.5	453.1	483.1	524.5	594.9	688.7	810.3	939.4
35°	358.3	357.9	364.0	372.6	381.2	400.5	428.8	465.7	530.3	643.8	775.8
37.5°	319.6	321.3	324.3	329.7	339.2	349.9	367.0	391.7	437.7	504.8	615.7
40°	297.9	298.7	302.9	307.4	313.1	321.3	335.3	355.3	388.8	442.3	523.4
42.5°	278.0	278.7	281.8	285.9	290.3	298.7	310.2	327.5	354.8	396.5	463.4
45°	248.9	248.9	251.6	253.4	258.3	265.9	275.3	289.6	308.5	339.4	384.0
47.5°	221.6	221.7	223.4	226.6	229.7	235.6	244.9	256.6	270.3	294.3	332.2
50°	205.9	206.3	207.4	210.1	212.0	217.2	224.4	234.6	248.9	267.4	299.0
52.5°	193.2	193.0	194.4	195.6	196.8	200.7	206.0	215.0	227.8	243.9	270.1
55°	172.7	171.2	173.5	175.3	176.5	178.0	181.0	186.7	197.6	211.2	230.8
57.5°	147.0	146.4	148.0	149.8	153.3	157.4	160.0	163.6	169.3	178.9	198.4
60°	125.9	125.9	129.4	130.5	134.6	139.9	145.2	148.2	153.9	160.3	174.6
62.5°	107.2	107.6	109.2	110.3	112.6	119.1	126.5	133.1	138.5	144.6	154.1
65°	89.8	90.5	90.5	91.3	92.8	94.3	97.3	102.6	112.0	120.7	127.8
67.5°	76.1	76.4	76.6	77.4	77.8	79.4	80.6	83.0	85.1	93.4	102.3
70°	67.2	68.3	67.9	68.7	69.0	69.8	71.3	72.4	75.8	77.7	83.0
72.5°	58.7	59.5	59.5	59.9	60.9	61.0	62.2	63.3	65.5	67.2	70.0
75°	47.6	47.2	47.6	48.3	48.7	49.0	49.0	50.5	51.7	53.2	55.0
77.5°	36.7	37.1	37.0	37.1	37.1	37.8	37.7	38.4	39.5	40.3	41.2
80°	29.4	29.8	29.4	29.8	30.2	30.5	30.2	30.5	31.7	32.4	32.4
82.5°	22.8	22.8	23.1	23.1	23.2	23.3	23.8	23.9	24.7	24.5	24.8
85°	13.5	13.2	13.2	13.2	13.5	13.9	13.5	13.5	13.9	13.9	13.9
87.5°	8.8	9.0	9.0	9.0	9.0	9.0	9.0	9.4	9.1	9.5	8.6
90°	19.6	19.5	19.3	19.2	19.1	19.1	19.4	19.7	19.9	20.2	17.4
92.5°	18.7	18.7	18.6	18.6	18.6	18.5	18.5	18.4	18.4	18.3	17.7
95°	35.7	36.0	36.3	36.5	36.8	36.9	36.9	36.9	36.9	36.9	36.6
97.5°	61.8	61.9	61.9	61.9	61.9	62.0	62.0	62.0	62.0	62.0	61.5
100°	78.9	79.1	79.2	79.3	79.4	79.5	79.5	79.5	79.5	79.5	79.1
102.5°	98.3	98.4	98.5	98.7	98.8	98.8	98.7	98.6	98.5	98.4	97.9
105°	127.8	127.8	127.8	127.8	127.8	127.7	127.4	127.2	126.9	126.7	126.4
107.5°	155.7	156.3	156.9	157.4	158.0	158.3	158.2	158.1	158.0	157.9	157.9
110°	177.3	177.7	178.1	178.5	178.9	179.0	179.0	179.0	179.0	179.0	179.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	198.1	198.3	198.6	198.9	199.2	199.5	199.9	200.2	200.5	200.8	200.9
115°	230.4	230.8	231.2	231.5	231.9	232.2	232.3	232.4	232.6	232.7	232.9
117.5°	261.1	261.5	261.9	262.3	262.7	263.0	263.3	263.6	263.9	264.2	264.9
120°	282.8	283.2	283.6	283.9	284.3	284.5	284.5	284.5	284.5	284.5	285.5
122.5°	304.0	304.3	304.5	304.8	305.1	305.4	305.7	306.0	306.3	306.6	307.3
125°	336.3	336.4	336.6	336.7	336.8	337.1	337.5	337.8	338.2	338.6	339.0
127.5°	365.8	366.2	366.6	367.0	367.4	367.9	368.3	368.8	369.2	369.7	370.2
130°	387.0	387.5	388.0	388.5	389.0	389.4	389.7	389.9	390.2	390.4	390.7
132.5°	407.3	407.7	408.1	408.5	408.9	409.4	409.9	410.5	411.1	411.6	411.6
135°	438.8	439.2	439.6	440.0	440.3	440.6	440.7	440.9	441.0	441.1	440.9
137.5°	467.4	467.9	468.4	468.9	469.4	469.7	469.8	469.9	470.0	470.1	469.8
140°	487.2	487.7	488.2	488.7	489.3	489.5	489.5	489.5	489.5	489.5	488.9
142.5°	505.1	505.6	506.1	506.6	507.2	507.4	507.3	507.2	507.1	507.0	506.5
145°	532.1	532.6	533.1	533.6	534.1	534.3	534.2	534.1	533.9	533.8	533.1
147.5°	556.1	556.6	557.1	557.6	558.2	558.3	558.0	557.6	557.3	557.1	556.5
150°	571.9	572.2	572.6	573.0	573.4	573.4	573.0	572.6	572.2	571.9	571.3
152.5°	586.6	587.0	587.5	588.0	588.5	588.5	588.0	587.5	587.0	586.6	585.9
155°	606.4	606.7	607.1	607.5	607.9	607.8	607.1	606.5	605.9	605.2	604.8
157.5°	623.4	624.1	624.7	625.3	625.9	625.8	624.9	624.0	623.2	622.3	622.1
160°	634.0	634.5	635.1	635.6	636.1	635.9	635.2	634.4	633.7	632.9	632.8
162.5°	643.3	643.9	644.5	645.1	645.7	645.6	644.7	643.8	643.0	642.1	642.0
165°	655.3	656.0	656.6	657.2	657.9	657.7	656.9	656.0	655.1	654.2	654.2
167.5°	665.2	665.9	666.6	667.2	667.9	667.8	666.9	666.0	665.1	664.2	664.2
170°	670.3	671.1	671.9	672.6	673.4	673.3	672.5	671.6	670.7	669.7	669.8
172.5°	674.5	675.2	676.0	676.8	677.5	677.4	676.6	675.7	674.8	673.9	674.0
175°	678.9	679.7	680.4	681.3	682.1	682.0	681.1	680.1	679.2	678.3	678.6
177.5°	681.1	681.7	682.3	682.9	683.5	683.5	682.9	682.3	681.7	681.1	681.3
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1111.3	1108.9	1106.8	1101.4	1098.6	1092.6	1091.7	1091.4	1083.6	1076.0	1073.9
5°	1149.4	1143.5	1134.4	1123.8	1112.9	1101.6	1094.0	1088.0	1072.9	1058.5	1050.3
7.5°	1187.9	1175.0	1159.3	1139.3	1122.7	1104.0	1090.1	1077.6	1056.2	1035.7	1021.9
10°	1216.6	1195.5	1174.8	1147.2	1125.7	1104.6	1085.0	1068.0	1043.9	1016.7	997.4
12.5°	1234.4	1211.1	1182.6	1155.7	1127.8	1101.0	1074.7	1052.9	1024.6	996.5	973.6
15°	1258.5	1233.6	1198.9	1160.4	1124.6	1089.5	1059.3	1032.2	995.2	961.7	933.7
17.5°	1278.2	1243.9	1206.6	1162.2	1120.6	1076.1	1037.2	1002.5	961.4	920.9	888.1
20°	1284.4	1250.5	1207.5	1163.1	1114.0	1061.6	1019.8	982.0	937.9	893.7	856.1
22.5°	1280.5	1254.2	1206.3	1153.1	1102.9	1048.0	1000.8	956.9	908.1	863.0	819.3
25°	1253.9	1244.9	1199.6	1141.6	1084.2	1020.5	965.8	917.9	862.1	813.9	766.3
27.5°	1191.8	1211.4	1183.4	1121.5	1057.7	989.4	928.0	873.4	815.5	761.1	713.8
30°	1132.2	1177.0	1164.9	1107.6	1036.3	969.2	900.2	843.2	781.4	725.6	678.8
32.5°	1050.4	1124.5	1136.3	1088.3	1014.6	940.8	868.5	811.8	747.3	688.4	642.9
35°	920.2	1031.1	1082.0	1051.4	977.4	898.0	823.2	757.3	692.4	634.3	589.1
37.5°	764.9	915.8	1000.8	1002.9	935.0	852.3	771.0	705.5	639.0	582.1	533.1
40°	664.1	827.8	938.3	962.8	905.4	816.1	733.9	667.1	602.3	546.4	490.3
42.5°	573.6	736.7	872.5	915.1	869.6	780.8	698.3	628.5	565.4	512.6	455.2
45°	463.8	606.4	756.1	832.3	807.1	724.8	637.7	571.4	512.1	466.5	411.4
47.5°	391.3	491.8	636.6	739.7	739.2	664.2	578.6	514.9	460.0	417.3	372.6
50°	349.9	437.5	560.1	676.9	686.7	623.8	542.3	479.3	428.1	383.1	347.3
52.5°	312.9	385.0	495.1	607.2	635.1	580.6	501.6	443.4	393.6	352.3	321.6
55°	264.4	320.1	403.9	508.8	551.0	512.5	442.3	388.1	347.7	313.1	286.6
57.5°	223.6	265.5	332.6	417.1	466.3	442.0	384.3	340.1	305.6	274.2	253.4
60°	198.0	232.3	289.2	359.8	414.0	397.1	347.7	306.6	277.2	250.0	230.5
62.5°	173.9	203.4	252.2	309.4	359.2	352.1	311.8	277.3	251.6	226.8	210.3
65°	139.9	161.4	199.4	244.4	284.4	287.7	258.7	235.3	212.3	192.7	178.0
67.5°	111.4	125.4	152.3	190.1	220.0	230.8	213.0	195.1	176.8	161.7	149.0
70°	93.9	105.2	124.8	155.4	182.9	194.2	184.0	170.1	154.2	141.8	130.9
72.5°	76.1	87.2	101.6	124.0	147.6	159.9	156.3	146.2	133.4	123.1	112.8
75°	57.4	60.7	70.5	85.6	104.1	114.6	117.2	112.0	101.8	93.9	87.9
77.5°	42.4	44.4	49.1	57.1	69.1	78.5	82.4	81.8	74.7	70.2	64.5
80°	33.9	35.0	37.4	40.7	49.8	59.2	61.8	61.8	57.0	55.0	49.4
82.5°	25.8	26.7	28.0	29.9	34.1	42.3	45.2	45.8	42.7	40.3	35.9
85°	14.7	14.3	15.0	16.3	17.0	19.2	23.7	24.5	23.7	20.7	19.6
87.5°	8.1	7.8	7.2	6.5	6.5	6.5	7.7	8.9	8.0	7.4	7.1
90°	14.5	11.7	8.9	6.8	5.2	3.6	2.1	0.6	2.1	3.6	5.2
92.5°	17.0	16.4	15.7	14.7	13.6	12.5	11.4	10.3	11.4	12.5	13.6
95°	36.4	36.1	35.9	35.0	33.8	32.5	31.2	30.0	31.2	32.5	33.8
97.5°	61.0	60.5	60.0	59.2	58.1	57.0	55.8	54.7	55.8	57.0	58.1
100°	78.7	78.4	78.0	77.3	76.2	75.1	74.1	73.1	74.1	75.1	76.2
102.5°	97.4	96.9	96.4	95.7	94.9	94.1	93.3	92.5	93.3	94.1	94.9
105°	126.1	125.9	125.6	125.3	124.9	124.6	124.2	123.8	124.2	124.6	124.9
107.5°	157.9	157.9	157.9	157.6	157.0	156.5	155.9	155.4	155.9	156.5	157.0
110°	179.0	179.0	179.0	178.7	177.9	177.1	176.4	175.6	176.4	177.1	177.9





TEST NUMBER: P331652-840

CATALOG NUMBER: SA2XXRDIP-C485D530U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	201.0	201.1	201.2	200.9	200.1	199.2	198.5	197.7	198.5	199.2	200.1
115°	233.2	233.4	233.7	233.4	232.7	231.9	231.2	230.4	231.2	231.9	232.7
117.5°	265.6	266.4	267.1	266.9	265.9	264.9	263.9	262.9	263.9	264.9	265.9
120°	286.5	287.5	288.6	288.6	287.5	286.5	285.5	284.5	285.5	286.5	287.5
122.5°	308.0	308.7	309.4	309.2	308.0	306.8	305.5	304.3	305.5	306.8	308.0
125°	339.4	339.7	340.1	339.7	338.6	337.5	336.3	335.2	336.3	337.5	338.6
127.5°	370.6	371.1	371.5	371.0	369.6	368.1	366.7	365.2	366.7	368.1	369.6
130°	390.9	391.2	391.4	390.7	389.1	387.4	385.8	384.2	385.8	387.4	389.1
132.5°	411.5	411.5	411.4	410.7	409.4	408.0	406.7	405.3	406.7	408.0	409.4
135°	440.6	440.3	440.1	439.3	437.9	436.5	435.0	433.6	435.0	436.5	437.9
137.5°	469.5	469.2	468.8	468.1	467.0	465.7	464.6	463.4	464.6	465.7	467.0
140°	488.2	487.6	487.0	486.0	484.8	483.7	482.6	481.4	482.6	483.7	484.8
142.5°	506.1	505.7	505.2	504.4	503.3	502.2	501.0	499.9	501.0	502.2	503.3
145°	532.3	531.5	530.8	530.0	529.1	528.2	527.3	526.3	527.3	528.2	529.1
147.5°	556.0	555.5	555.0	554.2	553.2	552.1	551.0	550.0	551.0	552.1	553.2
150°	570.8	570.3	569.8	569.2	568.4	567.6	566.8	566.1	566.8	567.6	568.4
152.5°	585.3	584.7	584.1	583.4	582.7	581.9	581.2	580.4	581.2	581.9	582.7
155°	604.5	604.1	603.7	603.3	602.9	602.6	602.2	601.8	602.2	602.6	602.9
157.5°	621.9	621.6	621.4	621.2	620.9	620.6	620.4	620.1	620.4	620.6	620.9
160°	632.6	632.5	632.4	632.2	631.9	631.7	631.4	631.2	631.4	631.7	631.9
162.5°	641.9	641.7	641.6	641.5	641.5	641.4	641.4	641.3	641.4	641.4	641.5
165°	654.2	654.2	654.2	654.3	654.4	654.5	654.6	654.8	654.6	654.5	654.4
167.5°	664.3	664.3	664.3	664.5	664.9	665.3	665.7	666.0	665.7	665.3	664.9
170°	669.9	670.1	670.2	670.6	670.9	671.3	671.7	672.1	671.7	671.3	670.9
172.5°	674.2	674.3	674.4	674.7	675.0	675.4	675.8	676.2	675.8	675.4	675.0
175°	678.9	679.1	679.4	679.7	680.1	680.4	680.9	681.3	680.9	680.4	680.1
177.5°	681.5	681.7	681.9	682.1	682.4	682.7	683.0	683.4	683.0	682.7	682.4
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4



TEST NUMBER: P331652-840

CATALOG NUMBER: SA2XXRDIP-C485D530U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1070.0	1067.8	1063.9	1057.9	1054.3	1047.9	1043.7	1046.1	1046.7	1046.1	1045.5
5°	1041.3	1033.3	1022.4	1011.8	1002.0	991.5	985.4	982.8	977.4	974.5	973.0
7.5°	1006.4	992.8	977.3	959.0	943.3	927.0	918.6	914.4	903.6	897.8	892.6
10°	980.5	959.0	943.5	919.4	904.7	883.2	868.5	868.9	854.1	845.9	839.8
12.5°	951.9	928.3	902.5	880.8	860.4	843.1	825.4	818.2	802.5	794.6	778.3
15°	904.3	876.8	849.7	820.2	799.5	772.7	747.1	715.8	690.5	668.6	662.6
17.5°	852.4	818.4	791.1	756.6	721.0	676.0	646.3	628.1	612.9	601.4	592.8
20°	816.9	782.1	753.2	701.0	653.2	622.6	600.8	586.8	571.0	558.6	551.7
22.5°	779.4	743.3	703.7	645.5	608.2	583.7	564.2	548.2	537.5	527.8	521.6
25°	726.3	686.7	621.5	581.5	551.4	525.7	512.1	502.3	491.0	477.8	471.8
27.5°	670.2	607.2	560.4	530.7	501.9	485.2	473.0	458.4	448.3	442.3	436.1
30°	628.2	565.3	528.8	496.2	475.9	457.5	443.1	434.8	425.1	414.9	410.7
32.5°	581.5	531.2	496.1	469.2	448.5	432.7	421.4	408.0	400.9	394.7	386.0
35°	523.4	485.3	453.3	431.4	411.8	399.0	385.8	377.9	365.1	359.8	356.4
37.5°	474.2	441.2	417.3	394.3	378.7	364.6	356.5	343.9	338.3	330.9	323.8
40°	446.5	414.0	391.1	372.2	354.9	344.3	334.2	324.0	315.7	312.3	303.6
42.5°	418.2	391.7	368.7	348.1	336.5	325.3	312.5	305.0	296.3	290.8	285.5
45°	379.0	355.7	336.0	319.0	306.2	294.6	286.2	273.8	268.9	257.9	253.4
47.5°	344.6	322.9	304.2	288.0	275.5	267.9	255.8	246.0	238.2	231.5	225.7
50°	320.1	302.1	284.0	269.6	258.3	247.4	235.0	230.0	217.9	214.6	211.2
52.5°	297.8	280.6	264.1	250.0	238.7	228.1	217.1	210.8	202.6	199.1	196.7
55°	266.6	250.0	234.2	221.8	210.5	199.4	192.7	184.8	181.0	178.3	175.3
57.5°	235.2	220.4	208.1	195.6	184.2	175.5	167.6	162.9	159.0	155.5	151.9
60°	215.3	201.0	190.1	178.3	166.7	159.6	153.5	147.8	143.3	138.0	136.5
62.5°	194.2	181.7	171.7	160.3	150.1	143.5	137.8	132.5	127.0	119.4	117.2
65°	165.2	155.4	144.8	135.4	126.3	120.0	111.6	105.6	103.3	102.6	102.2
67.5°	139.0	129.7	120.6	111.0	102.7	96.7	92.5	91.6	90.1	89.6	88.6
70°	121.4	112.8	103.7	94.6	86.7	85.6	84.1	82.6	80.7	80.0	79.2
72.5°	105.7	96.7	87.8	80.5	77.1	75.6	74.1	72.6	71.4	70.6	70.2
75°	81.1	72.8	66.8	64.1	62.2	61.1	58.9	57.7	57.0	55.8	55.4
77.5°	58.4	53.7	50.9	49.3	47.3	46.0	44.8	43.6	42.8	42.6	42.0
80°	44.5	42.2	40.4	38.1	37.4	35.9	35.4	34.3	34.7	33.5	33.5
82.5°	34.5	31.7	30.1	29.1	28.3	27.1	26.7	26.2	26.3	25.4	25.4
85°	17.8	17.0	16.3	15.5	15.5	14.3	14.7	14.3	14.3	13.5	13.2
87.5°	7.1	7.2	7.2	7.8	8.3	8.6	8.5	8.2	8.1	8.1	7.8
90°	6.8	8.9	11.7	14.5	17.4	20.2	19.9	19.7	19.4	19.1	19.1
92.5°	14.7	15.7	16.4	17.0	17.7	18.3	18.4	18.4	18.5	18.5	18.6
95°	35.0	35.9	36.1	36.4	36.6	36.9	36.9	36.9	36.9	36.9	36.8
97.5°	59.2	60.0	60.5	61.0	61.5	62.0	62.0	62.0	62.0	62.0	61.9
100°	77.3	78.0	78.4	78.7	79.1	79.5	79.5	79.5	79.5	79.5	79.4
102.5°	95.7	96.4	96.9	97.4	97.9	98.4	98.5	98.6	98.7	98.8	98.8
105°	125.3	125.6	125.9	126.1	126.4	126.7	126.9	127.2	127.4	127.7	127.8
107.5°	157.6	157.9	157.9	157.9	157.9	157.9	158.0	158.1	158.2	158.3	158.0
110°	178.7	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0	178.9



TEST NUMBER: P331652-840

CATALOG NUMBER: SA2XXRDIP-C485D530U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	200.9	201.2	201.1	201.0	200.9	200.8	200.5	200.2	199.9	199.5	199.2
115°	233.4	233.7	233.4	233.2	232.9	232.7	232.6	232.4	232.3	232.2	231.9
117.5°	266.9	267.1	266.4	265.6	264.9	264.2	263.9	263.6	263.3	263.0	262.7
120°	288.6	288.6	287.5	286.5	285.5	284.5	284.5	284.5	284.5	284.5	284.3
122.5°	309.2	309.4	308.7	308.0	307.3	306.6	306.3	306.0	305.7	305.4	305.1
125°	339.7	340.1	339.7	339.4	339.0	338.6	338.2	337.8	337.5	337.1	336.8
127.5°	371.0	371.5	371.1	370.6	370.2	369.7	369.2	368.8	368.3	367.9	367.4
130°	390.7	391.4	391.2	390.9	390.7	390.4	390.2	389.9	389.7	389.4	389.0
132.5°	410.7	411.4	411.5	411.5	411.6	411.6	411.1	410.5	409.9	409.4	408.9
135°	439.3	440.1	440.3	440.6	440.9	441.1	441.0	440.9	440.7	440.6	440.3
137.5°	468.1	468.8	469.2	469.5	469.8	470.1	470.0	469.9	469.8	469.7	469.4
140°	486.0	487.0	487.6	488.2	488.9	489.5	489.5	489.5	489.5	489.5	489.3
142.5°	504.4	505.2	505.7	506.1	506.5	507.0	507.1	507.2	507.3	507.4	507.2
145°	530.0	530.8	531.5	532.3	533.1	533.8	533.9	534.1	534.2	534.3	534.1
147.5°	554.2	555.0	555.5	556.0	556.5	557.1	557.3	557.6	558.0	558.3	558.2
150°	569.2	569.8	570.3	570.8	571.3	571.9	572.2	572.6	573.0	573.4	573.4
152.5°	583.4	584.1	584.7	585.3	585.9	586.6	587.0	587.5	588.0	588.5	588.5
155°	603.3	603.7	604.1	604.5	604.8	605.2	605.9	606.5	607.1	607.8	607.9
157.5°	621.2	621.4	621.6	621.9	622.1	622.3	623.2	624.0	624.9	625.8	625.9
160°	632.2	632.4	632.5	632.6	632.8	632.9	633.7	634.4	635.2	635.9	636.1
162.5°	641.5	641.6	641.7	641.9	642.0	642.1	643.0	643.8	644.7	645.6	645.7
165°	654.3	654.2	654.2	654.2	654.2	654.2	655.1	656.0	656.9	657.7	657.9
167.5°	664.5	664.3	664.3	664.3	664.2	664.2	665.1	666.0	666.9	667.8	667.9
170°	670.6	670.2	670.1	669.9	669.8	669.7	670.7	671.6	672.5	673.3	673.4
172.5°	674.7	674.4	674.3	674.2	674.0	673.9	674.8	675.7	676.6	677.4	677.5
175°	679.7	679.4	679.1	678.9	678.6	678.3	679.2	680.1	681.1	682.0	682.1
177.5°	682.1	681.9	681.7	681.5	681.3	681.1	681.7	682.3	682.9	683.5	683.5
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4



TEST NUMBER: P331652-840  
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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1042.2	1042.8	1041.9	1042.5	1041.9	1042.8	1042.2	1045.5	1046.1	1046.7	1046.1
5°	971.1	966.5	965.8	964.7	965.8	966.5	971.1	973.0	974.5	977.4	982.8
7.5°	886.2	885.4	883.6	880.9	883.6	885.4	886.2	892.6	897.8	903.6	914.4
10°	831.5	829.7	829.3	826.7	829.3	829.7	831.5	839.8	845.9	854.1	868.9
12.5°	767.6	755.5	754.2	747.6	754.2	755.5	767.6	778.3	794.6	802.5	818.2
15°	653.6	651.3	643.8	638.8	643.8	651.3	653.6	662.6	668.6	690.5	715.8
17.5°	588.3	581.0	578.7	577.6	578.7	581.0	588.3	592.8	601.4	612.9	628.1
20°	546.4	539.7	538.6	537.8	538.6	539.7	546.4	551.7	558.6	571.0	586.8
22.5°	517.5	510.4	507.5	505.2	507.5	510.4	517.5	521.6	527.8	537.5	548.2
25°	468.0	465.3	463.8	463.1	463.8	465.3	468.0	471.8	477.8	491.0	502.3
27.5°	429.3	423.5	422.3	420.4	422.3	423.5	429.3	436.1	442.3	448.3	458.4
30°	407.3	405.4	402.7	400.5	402.7	405.4	407.3	410.7	414.9	425.1	434.8
32.5°	381.3	379.8	377.4	376.4	377.4	379.8	381.3	386.0	394.7	400.9	408.0
35°	352.6	347.3	345.1	341.6	345.1	347.3	352.6	356.4	359.8	365.1	377.9
37.5°	322.2	319.4	316.3	317.4	316.3	319.4	322.2	323.8	330.9	338.3	343.9
40°	298.7	296.8	296.0	295.7	296.0	296.8	298.7	303.6	312.3	315.7	324.0
42.5°	279.9	274.8	272.8	272.8	272.8	274.8	279.9	285.5	290.8	296.3	305.0
45°	251.6	246.6	243.3	243.6	243.3	246.6	251.6	253.4	257.9	268.9	273.8
47.5°	222.5	222.3	220.2	220.9	220.2	222.3	222.5	225.7	231.5	238.2	246.0
50°	208.5	206.3	204.8	205.1	204.8	206.3	208.5	211.2	214.6	217.9	230.0
52.5°	195.3	193.3	192.1	193.7	192.1	193.3	195.3	196.7	199.1	202.6	210.8
55°	173.5	171.2	170.9	170.5	170.9	171.2	173.5	175.3	178.3	181.0	184.8
57.5°	149.2	147.6	145.3	144.4	145.3	147.6	149.2	151.9	155.5	159.0	162.9
60°	131.6	128.6	124.8	124.4	124.8	128.6	131.6	136.5	138.0	143.3	147.8
62.5°	115.6	115.0	114.3	114.2	114.3	115.0	115.6	117.2	119.4	127.0	132.5
65°	101.5	101.1	101.5	101.8	101.5	101.1	101.5	102.2	102.6	103.3	105.6
67.5°	88.4	87.8	87.1	87.4	87.1	87.8	88.4	88.6	89.6	90.1	91.6
70°	78.5	78.1	77.7	77.7	77.7	78.1	78.5	79.2	80.0	80.7	82.6
72.5°	68.8	68.7	68.4	68.1	68.4	68.7	68.8	70.2	70.6	71.4	72.6
75°	55.0	54.3	54.3	54.3	54.3	54.3	55.0	55.4	55.8	57.0	57.7
77.5°	41.9	41.6	41.2	40.9	41.2	41.6	41.9	42.0	42.6	42.8	43.6
80°	33.2	32.8	32.4	32.4	32.4	32.8	33.2	33.5	33.5	34.7	34.3
82.5°	25.3	24.9	24.8	24.5	24.8	24.9	25.3	25.4	25.4	26.3	26.2
85°	13.5	13.9	13.5	14.3	13.5	13.9	13.5	13.2	13.5	14.3	14.3
87.5°	7.8	7.5	7.8	7.6	7.8	7.5	7.8	7.8	8.1	8.1	8.2
90°	19.2	19.3	19.5	19.6	19.5	19.3	19.2	19.1	19.1	19.4	19.7
92.5°	18.6	18.6	18.7	18.7	18.7	18.6	18.6	18.6	18.5	18.5	18.4
95°	36.5	36.3	36.0	35.7	36.0	36.3	36.5	36.8	36.9	36.9	36.9
97.5°	61.9	61.9	61.9	61.8	61.9	61.9	61.9	61.9	62.0	62.0	62.0
100°	79.3	79.2	79.1	78.9	79.1	79.2	79.3	79.4	79.5	79.5	79.5
102.5°	98.7	98.5	98.4	98.3	98.4	98.5	98.7	98.8	98.8	98.7	98.6
105°	127.8	127.8	127.8	127.8	127.8	127.8	127.8	127.8	127.7	127.4	127.2
107.5°	157.4	156.9	156.3	155.7	156.3	156.9	157.4	158.0	158.3	158.2	158.1
110°	178.5	178.1	177.7	177.3	177.7	178.1	178.5	178.9	179.0	179.0	179.0



TEST NUMBER: P331652-840

CATALOG NUMBER: SA2XXRDIP-C485D530U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	198.9	198.6	198.3	198.1	198.3	198.6	198.9	199.2	199.5	199.9	200.2
115°	231.5	231.2	230.8	230.4	230.8	231.2	231.5	231.9	232.2	232.3	232.4
117.5°	262.3	261.9	261.5	261.1	261.5	261.9	262.3	262.7	263.0	263.3	263.6
120°	283.9	283.6	283.2	282.8	283.2	283.6	283.9	284.3	284.5	284.5	284.5
122.5°	304.8	304.5	304.3	304.0	304.3	304.5	304.8	305.1	305.4	305.7	306.0
125°	336.7	336.6	336.4	336.3	336.4	336.6	336.7	336.8	337.1	337.5	337.8
127.5°	367.0	366.6	366.2	365.8	366.2	366.6	367.0	367.4	367.9	368.3	368.8
130°	388.5	388.0	387.5	387.0	387.5	388.0	388.5	389.0	389.4	389.7	389.9
132.5°	408.5	408.1	407.7	407.3	407.7	408.1	408.5	408.9	409.4	409.9	410.5
135°	440.0	439.6	439.2	438.8	439.2	439.6	440.0	440.3	440.6	440.7	440.9
137.5°	468.9	468.4	467.9	467.4	467.9	468.4	468.9	469.4	469.7	469.8	469.9
140°	488.7	488.2	487.7	487.2	487.7	488.2	488.7	489.3	489.5	489.5	489.5
142.5°	506.6	506.1	505.6	505.1	505.6	506.1	506.6	507.2	507.4	507.3	507.2
145°	533.6	533.1	532.6	532.1	532.6	533.1	533.6	534.1	534.3	534.2	534.1
147.5°	557.6	557.1	556.6	556.1	556.6	557.1	557.6	558.2	558.3	558.0	557.6
150°	573.0	572.6	572.2	571.9	572.2	572.6	573.0	573.4	573.4	573.0	572.6
152.5°	588.0	587.5	587.0	586.6	587.0	587.5	588.0	588.5	588.5	588.0	587.5
155°	607.5	607.1	606.7	606.4	606.7	607.1	607.5	607.9	607.8	607.1	606.5
157.5°	625.3	624.7	624.1	623.4	624.1	624.7	625.3	625.9	625.8	624.9	624.0
160°	635.6	635.1	634.5	634.0	634.5	635.1	635.6	636.1	635.9	635.2	634.4
162.5°	645.1	644.5	643.9	643.3	643.9	644.5	645.1	645.7	645.6	644.7	643.8
165°	657.2	656.6	656.0	655.3	656.0	656.6	657.2	657.9	657.7	656.9	656.0
167.5°	667.2	666.6	665.9	665.2	665.9	666.6	667.2	667.9	667.8	666.9	666.0
170°	672.6	671.9	671.1	670.3	671.1	671.9	672.6	673.4	673.3	672.5	671.6
172.5°	676.8	676.0	675.2	674.5	675.2	676.0	676.8	677.5	677.4	676.6	675.7
175°	681.3	680.4	679.7	678.9	679.7	680.4	681.3	682.1	682.0	681.1	680.1
177.5°	682.9	682.3	681.7	681.1	681.7	682.3	682.9	683.5	683.5	682.9	682.3
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4



TEST NUMBER: P331652-840

CATALOG NUMBER: SA2XXRDIP-C485D530U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1043.7	1047.9	1054.3	1057.9	1063.9	1067.8	1070.0	1073.9	1076.0	1083.6	1091.4
5°	985.4	991.5	1002.0	1011.8	1022.4	1033.3	1041.3	1050.3	1058.5	1072.9	1088.0
7.5°	918.6	927.0	943.3	959.0	977.3	992.8	1006.4	1021.9	1035.7	1056.2	1077.6
10°	868.5	883.2	904.7	919.4	943.5	959.0	980.5	997.4	1016.7	1043.9	1068.0
12.5°	825.4	843.1	860.4	880.8	902.5	928.3	951.9	973.6	996.5	1024.6	1052.9
15°	747.1	772.7	799.5	820.2	849.7	876.8	904.3	933.7	961.7	995.2	1032.2
17.5°	646.3	676.0	721.0	756.6	791.1	818.4	852.4	888.1	920.9	961.4	1002.5
20°	600.8	622.6	653.2	701.0	753.2	782.1	816.9	856.1	893.7	937.9	982.0
22.5°	564.2	583.7	608.2	645.5	703.7	743.3	779.4	819.3	863.0	908.1	956.9
25°	512.1	525.7	551.4	581.5	621.5	686.7	726.3	766.3	813.9	862.1	917.9
27.5°	473.0	485.2	501.9	530.7	560.4	607.2	670.2	713.8	761.1	815.5	873.4
30°	443.1	457.5	475.9	496.2	528.8	565.3	628.2	678.8	725.6	781.4	843.2
32.5°	421.4	432.7	448.5	469.2	496.1	531.2	581.5	642.9	688.4	747.3	811.8
35°	385.8	399.0	411.8	431.4	453.3	485.3	523.4	589.1	634.3	692.4	757.3
37.5°	356.5	364.6	378.7	394.3	417.3	441.2	474.2	533.1	582.1	639.0	705.5
40°	334.2	344.3	354.9	372.2	391.1	414.0	446.5	490.3	546.4	602.3	667.1
42.5°	312.5	325.3	336.5	348.1	368.7	391.7	418.2	455.2	512.6	565.4	628.5
45°	286.2	294.6	306.2	319.0	336.0	355.7	379.0	411.4	466.5	512.1	571.4
47.5°	255.8	267.9	275.5	288.0	304.2	322.9	344.6	372.6	417.3	460.0	514.9
50°	235.0	247.4	258.3	269.6	284.0	302.1	320.1	347.3	383.1	428.1	479.3
52.5°	217.1	228.1	238.7	250.0	264.1	280.6	297.8	321.6	352.3	393.6	443.4
55°	192.7	199.4	210.5	221.8	234.2	250.0	266.6	286.6	313.1	347.7	388.1
57.5°	167.6	175.5	184.2	195.6	208.1	220.4	235.2	253.4	274.2	305.6	340.1
60°	153.5	159.6	166.7	178.3	190.1	201.0	215.3	230.5	250.0	277.2	306.6
62.5°	137.8	143.5	150.1	160.3	171.7	181.7	194.2	210.3	226.8	251.6	277.3
65°	111.6	120.0	126.3	135.4	144.8	155.4	165.2	178.0	192.7	212.3	235.3
67.5°	92.5	96.7	102.7	111.0	120.6	129.7	139.0	149.0	161.7	176.8	195.1
70°	84.1	85.6	86.7	94.6	103.7	112.8	121.4	130.9	141.8	154.2	170.1
72.5°	74.1	75.6	77.1	80.5	87.8	96.7	105.7	112.8	123.1	133.4	146.2
75°	58.9	61.1	62.2	64.1	66.8	72.8	81.1	87.9	93.9	101.8	112.0
77.5°	44.8	46.0	47.3	49.3	50.9	53.7	58.4	64.5	70.2	74.7	81.8
80°	35.4	35.9	37.4	38.1	40.4	42.2	44.5	49.4	55.0	57.0	61.8
82.5°	26.7	27.1	28.3	29.1	30.1	31.7	34.5	35.9	40.3	42.7	45.8
85°	14.7	14.3	15.5	15.5	16.3	17.0	17.8	19.6	20.7	23.7	24.5
87.5°	8.5	8.6	8.3	7.8	7.2	7.2	7.1	7.1	7.4	8.0	8.9
90°	19.9	20.2	17.4	14.5	11.7	8.9	6.8	5.2	3.6	2.1	0.6
92.5°	18.4	18.3	17.7	17.0	16.4	15.7	14.7	13.6	12.5	11.4	10.3
95°	36.9	36.9	36.6	36.4	36.1	35.9	35.0	33.8	32.5	31.2	30.0
97.5°	62.0	62.0	61.5	61.0	60.5	60.0	59.2	58.1	57.0	55.8	54.7
100°	79.5	79.5	79.1	78.7	78.4	78.0	77.3	76.2	75.1	74.1	73.1
102.5°	98.5	98.4	97.9	97.4	96.9	96.4	95.7	94.9	94.1	93.3	92.5
105°	126.9	126.7	126.4	126.1	125.9	125.6	125.3	124.9	124.6	124.2	123.8
107.5°	158.0	157.9	157.9	157.9	157.9	157.9	157.6	157.0	156.5	155.9	155.4
110°	179.0	179.0	179.0	179.0	179.0	179.0	178.7	177.9	177.1	176.4	175.6



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	200.5	200.8	200.9	201.0	201.1	201.2	200.9	200.1	199.2	198.5	197.7
115°	232.6	232.7	232.9	233.2	233.4	233.7	233.4	232.7	231.9	231.2	230.4
117.5°	263.9	264.2	264.9	265.6	266.4	267.1	266.9	265.9	264.9	263.9	262.9
120°	284.5	284.5	285.5	286.5	287.5	288.6	288.6	287.5	286.5	285.5	284.5
122.5°	306.3	306.6	307.3	308.0	308.7	309.4	309.2	308.0	306.8	305.5	304.3
125°	338.2	338.6	339.0	339.4	339.7	340.1	339.7	338.6	337.5	336.3	335.2
127.5°	369.2	369.7	370.2	370.6	371.1	371.5	371.0	369.6	368.1	366.7	365.2
130°	390.2	390.4	390.7	390.9	391.2	391.4	390.7	389.1	387.4	385.8	384.2
132.5°	411.1	411.6	411.6	411.5	411.5	411.4	410.7	409.4	408.0	406.7	405.3
135°	441.0	441.1	440.9	440.6	440.3	440.1	439.3	437.9	436.5	435.0	433.6
137.5°	470.0	470.1	469.8	469.5	469.2	468.8	468.1	467.0	465.7	464.6	463.4
140°	489.5	489.5	488.9	488.2	487.6	487.0	486.0	484.8	483.7	482.6	481.4
142.5°	507.1	507.0	506.5	506.1	505.7	505.2	504.4	503.3	502.2	501.0	499.9
145°	533.9	533.8	533.1	532.3	531.5	530.8	530.0	529.1	528.2	527.3	526.3
147.5°	557.3	557.1	556.5	556.0	555.5	555.0	554.2	553.2	552.1	551.0	550.0
150°	572.2	571.9	571.3	570.8	570.3	569.8	569.2	568.4	567.6	566.8	566.1
152.5°	587.0	586.6	585.9	585.3	584.7	584.1	583.4	582.7	581.9	581.2	580.4
155°	605.9	605.2	604.8	604.5	604.1	603.7	603.3	602.9	602.6	602.2	601.8
157.5°	623.2	622.3	622.1	621.9	621.6	621.4	621.2	620.9	620.6	620.4	620.1
160°	633.7	632.9	632.8	632.6	632.5	632.4	632.2	631.9	631.7	631.4	631.2
162.5°	643.0	642.1	642.0	641.9	641.7	641.6	641.5	641.5	641.4	641.4	641.3
165°	655.1	654.2	654.2	654.2	654.2	654.2	654.3	654.4	654.5	654.6	654.8
167.5°	665.1	664.2	664.2	664.3	664.3	664.3	664.5	664.9	665.3	665.7	666.0
170°	670.7	669.7	669.8	669.9	670.1	670.2	670.6	670.9	671.3	671.7	672.1
172.5°	674.8	673.9	674.0	674.2	674.3	674.4	674.7	675.0	675.4	675.8	676.2
175°	679.2	678.3	678.6	678.9	679.1	679.4	679.7	680.1	680.4	680.9	681.3
177.5°	681.7	681.1	681.3	681.5	681.7	681.9	682.1	682.4	682.7	683.0	683.4
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1091.7	1092.6	1098.6	1101.4	1106.8	1108.9	1111.3	1110.6	1110.6	1111.9	1120.3
5°	1094.0	1101.6	1112.9	1123.8	1134.4	1143.5	1149.4	1155.5	1157.7	1168.7	1178.5
7.5°	1090.1	1104.0	1122.7	1139.3	1159.3	1175.0	1187.9	1199.6	1207.6	1223.6	1239.8
10°	1085.0	1104.6	1125.7	1147.2	1174.8	1195.5	1216.6	1232.8	1238.1	1261.8	1275.5
12.5°	1074.7	1101.0	1127.8	1155.7	1182.6	1211.1	1234.4	1250.6	1269.2	1290.5	1315.6
15°	1059.3	1089.5	1124.6	1160.4	1198.9	1233.6	1258.5	1286.8	1307.1	1330.5	1352.3
17.5°	1037.2	1076.1	1120.6	1162.2	1206.6	1243.9	1278.2	1305.3	1319.6	1332.9	1336.3
20°	1019.8	1061.6	1114.0	1163.1	1207.5	1250.5	1284.4	1307.1	1310.9	1311.2	1291.2
22.5°	1000.8	1048.0	1102.9	1153.1	1206.3	1254.2	1280.5	1290.2	1275.3	1249.7	1211.0
25°	965.8	1020.5	1084.2	1141.6	1199.6	1244.9	1253.9	1237.0	1184.6	1129.4	1059.8
27.5°	928.0	989.4	1057.7	1121.5	1183.4	1211.4	1191.8	1130.6	1036.2	954.2	854.7
30°	900.2	969.2	1036.3	1107.6	1164.9	1177.0	1132.2	1042.0	931.9	808.2	709.0
32.5°	868.5	940.8	1014.6	1088.3	1136.3	1124.5	1050.4	939.4	810.3	688.7	594.9
35°	823.2	898.0	977.4	1051.4	1082.0	1031.1	920.2	775.8	643.8	530.3	465.7
37.5°	771.0	852.3	935.0	1002.9	1000.8	915.8	764.9	615.7	504.8	437.7	391.7
40°	733.9	816.1	905.4	962.8	938.3	827.8	664.1	523.4	442.3	388.8	355.3
42.5°	698.3	780.8	869.6	915.1	872.5	736.7	573.6	463.4	396.5	354.8	327.5
45°	637.7	724.8	807.1	832.3	756.1	606.4	463.8	384.0	339.4	308.5	289.6
47.5°	578.6	664.2	739.2	739.7	636.6	491.8	391.3	332.2	294.3	270.3	256.6
50°	542.3	623.8	686.7	676.9	560.1	437.5	349.9	299.0	267.4	248.9	234.6
52.5°	501.6	580.6	635.1	607.2	495.1	385.0	312.9	270.1	243.9	227.8	215.0
55°	442.3	512.5	551.0	508.8	403.9	320.1	264.4	230.8	211.2	197.6	186.7
57.5°	384.3	442.0	466.3	417.1	332.6	265.5	223.6	198.4	178.9	169.3	163.6
60°	347.7	397.1	414.0	359.8	289.2	232.3	198.0	174.6	160.3	153.9	148.2
62.5°	311.8	352.1	359.2	309.4	252.2	203.4	173.9	154.1	144.6	138.5	133.1
65°	258.7	287.7	284.4	244.4	199.4	161.4	139.9	127.8	120.7	112.0	102.6
67.5°	213.0	230.8	220.0	190.1	152.3	125.4	111.4	102.3	93.4	85.1	83.0
70°	184.0	194.2	182.9	155.4	124.8	105.2	93.9	83.0	77.7	75.8	72.4
72.5°	156.3	159.9	147.6	124.0	101.6	87.2	76.1	70.0	67.2	65.5	63.3
75°	117.2	114.6	104.1	85.6	70.5	60.7	57.4	55.0	53.2	51.7	50.5
77.5°	82.4	78.5	69.1	57.1	49.1	44.4	42.4	41.2	40.3	39.5	38.4
80°	61.8	59.2	49.8	40.7	37.4	35.0	33.9	32.4	32.4	31.7	30.5
82.5°	45.2	42.3	34.1	29.9	28.0	26.7	25.8	24.8	24.5	24.7	23.9
85°	23.7	19.2	17.0	16.3	15.0	14.3	14.7	13.9	13.9	13.9	13.5
87.5°	7.7	6.5	6.5	6.5	7.2	7.8	8.1	8.6	9.5	9.1	9.4
90°	2.1	3.6	5.2	6.8	8.9	11.7	14.5	17.4	20.2	19.9	19.7
92.5°	11.4	12.5	13.6	14.7	15.7	16.4	17.0	17.7	18.3	18.4	18.4
95°	31.2	32.5	33.8	35.0	35.9	36.1	36.4	36.6	36.9	36.9	36.9
97.5°	55.8	57.0	58.1	59.2	60.0	60.5	61.0	61.5	62.0	62.0	62.0
100°	74.1	75.1	76.2	77.3	78.0	78.4	78.7	79.1	79.5	79.5	79.5
102.5°	93.3	94.1	94.9	95.7	96.4	96.9	97.4	97.9	98.4	98.5	98.6
105°	124.2	124.6	124.9	125.3	125.6	125.9	126.1	126.4	126.7	126.9	127.2
107.5°	155.9	156.5	157.0	157.6	157.9	157.9	157.9	157.9	157.9	158.0	158.1
110°	176.4	177.1	177.9	178.7	179.0	179.0	179.0	179.0	179.0	179.0	179.0





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	198.5	199.2	200.1	200.9	201.2	201.1	201.0	200.9	200.8	200.5	200.2
115°	231.2	231.9	232.7	233.4	233.7	233.4	233.2	232.9	232.7	232.6	232.4
117.5°	263.9	264.9	265.9	266.9	267.1	266.4	265.6	264.9	264.2	263.9	263.6
120°	285.5	286.5	287.5	288.6	288.6	287.5	286.5	285.5	284.5	284.5	284.5
122.5°	305.5	306.8	308.0	309.2	309.4	308.7	308.0	307.3	306.6	306.3	306.0
125°	336.3	337.5	338.6	339.7	340.1	339.7	339.4	339.0	338.6	338.2	337.8
127.5°	366.7	368.1	369.6	371.0	371.5	371.1	370.6	370.2	369.7	369.2	368.8
130°	385.8	387.4	389.1	390.7	391.4	391.2	390.9	390.7	390.4	390.2	389.9
132.5°	406.7	408.0	409.4	410.7	411.4	411.5	411.5	411.6	411.6	411.1	410.5
135°	435.0	436.5	437.9	439.3	440.1	440.3	440.6	440.9	441.1	441.0	440.9
137.5°	464.6	465.7	467.0	468.1	468.8	469.2	469.5	469.8	470.1	470.0	469.9
140°	482.6	483.7	484.8	486.0	487.0	487.6	488.2	488.9	489.5	489.5	489.5
142.5°	501.0	502.2	503.3	504.4	505.2	505.7	506.1	506.5	507.0	507.1	507.2
145°	527.3	528.2	529.1	530.0	530.8	531.5	532.3	533.1	533.8	533.9	534.1
147.5°	551.0	552.1	553.2	554.2	555.0	555.5	556.0	556.5	557.1	557.3	557.6
150°	566.8	567.6	568.4	569.2	569.8	570.3	570.8	571.3	571.9	572.2	572.6
152.5°	581.2	581.9	582.7	583.4	584.1	584.7	585.3	585.9	586.6	587.0	587.5
155°	602.2	602.6	602.9	603.3	603.7	604.1	604.5	604.8	605.2	605.9	606.5
157.5°	620.4	620.6	620.9	621.2	621.4	621.6	621.9	622.1	622.3	623.2	624.0
160°	631.4	631.7	631.9	632.2	632.4	632.5	632.6	632.8	632.9	633.7	634.4
162.5°	641.4	641.4	641.5	641.5	641.6	641.7	641.9	642.0	642.1	643.0	643.8
165°	654.6	654.5	654.4	654.3	654.2	654.2	654.2	654.2	654.2	655.1	656.0
167.5°	665.7	665.3	664.9	664.5	664.3	664.3	664.3	664.2	664.2	665.1	666.0
170°	671.7	671.3	670.9	670.6	670.2	670.1	669.9	669.8	669.7	670.7	671.6
172.5°	675.8	675.4	675.0	674.7	674.4	674.3	674.2	674.0	673.9	674.8	675.7
175°	680.9	680.4	680.1	679.7	679.4	679.1	678.9	678.6	678.3	679.2	680.1
177.5°	683.0	682.7	682.4	682.1	681.9	681.7	681.5	681.3	681.1	681.7	682.3
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1123.4	1127.3	1129.1	1129.1	1131.3	1130.3	1129.4
5°	1187.9	1195.1	1196.6	1203.4	1208.3	1206.8	1207.5
7.5°	1252.1	1263.6	1275.1	1280.2	1281.1	1284.1	1285.3
10°	1291.6	1301.1	1318.8	1316.2	1329.4	1336.9	1324.4
12.5°	1329.7	1342.4	1354.7	1358.1	1365.5	1368.0	1363.0
15°	1364.0	1370.8	1371.6	1369.7	1372.0	1370.1	1362.9
17.5°	1331.9	1320.9	1298.6	1288.0	1279.6	1267.3	1262.3
20°	1278.8	1246.4	1208.7	1193.6	1175.9	1141.1	1149.4
22.5°	1164.2	1127.2	1089.5	1045.4	1024.4	991.5	989.6
25°	985.8	922.1	851.9	802.8	774.3	741.4	727.1
27.5°	766.5	686.2	628.7	599.7	573.1	547.1	546.0
30°	622.3	561.9	517.5	492.5	476.4	465.3	467.7
32.5°	524.5	483.1	453.1	432.5	420.5	412.2	412.1
35°	428.8	400.5	381.2	372.6	364.0	357.9	358.3
37.5°	367.0	349.9	339.2	329.7	324.3	321.3	319.6
40°	335.3	321.3	313.1	307.4	302.9	298.7	297.9
42.5°	310.2	298.7	290.3	285.9	281.8	278.7	278.0
45°	275.3	265.9	258.3	253.4	251.6	248.9	248.9
47.5°	244.9	235.6	229.7	226.6	223.4	221.7	221.6
50°	224.4	217.2	212.0	210.1	207.4	206.3	205.9
52.5°	206.0	200.7	196.8	195.6	194.4	193.0	193.2
55°	181.0	178.0	176.5	175.3	173.5	171.2	172.7
57.5°	160.0	157.4	153.3	149.8	148.0	146.4	147.0
60°	145.2	139.9	134.6	130.5	129.4	125.9	125.9
62.5°	126.5	119.1	112.6	110.3	109.2	107.6	107.2
65°	97.3	94.3	92.8	91.3	90.5	90.5	89.8
67.5°	80.6	79.4	77.8	77.4	76.6	76.4	76.1
70°	71.3	69.8	69.0	68.7	67.9	68.3	67.2
72.5°	62.2	61.0	60.9	59.9	59.5	59.5	58.7
75°	49.0	49.0	48.7	48.3	47.6	47.2	47.6
77.5°	37.7	37.8	37.1	37.1	37.0	37.1	36.7
80°	30.2	30.5	30.2	29.8	29.4	29.8	29.4
82.5°	23.8	23.3	23.2	23.1	23.1	22.8	22.8
85°	13.5	13.9	13.5	13.2	13.2	13.2	13.5
87.5°	9.0	9.0	9.0	9.0	9.0	9.0	8.8
90°	19.4	19.1	19.1	19.2	19.3	19.5	19.6
92.5°	18.5	18.5	18.6	18.6	18.6	18.7	18.7
95°	36.9	36.9	36.8	36.5	36.3	36.0	35.7
97.5°	62.0	62.0	61.9	61.9	61.9	61.9	61.8
100°	79.5	79.5	79.4	79.3	79.2	79.1	78.9
102.5°	98.7	98.8	98.8	98.7	98.5	98.4	98.3
105°	127.4	127.7	127.8	127.8	127.8	127.8	127.8
107.5°	158.2	158.3	158.0	157.4	156.9	156.3	155.7
110°	179.0	179.0	178.9	178.5	178.1	177.7	177.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	199.9	199.5	199.2	198.9	198.6	198.3	198.1
115°	232.3	232.2	231.9	231.5	231.2	230.8	230.4
117.5°	263.3	263.0	262.7	262.3	261.9	261.5	261.1
120°	284.5	284.5	284.3	283.9	283.6	283.2	282.8
122.5°	305.7	305.4	305.1	304.8	304.5	304.3	304.0
125°	337.5	337.1	336.8	336.7	336.6	336.4	336.3
127.5°	368.3	367.9	367.4	367.0	366.6	366.2	365.8
130°	389.7	389.4	389.0	388.5	388.0	387.5	387.0
132.5°	409.9	409.4	408.9	408.5	408.1	407.7	407.3
135°	440.7	440.6	440.3	440.0	439.6	439.2	438.8
137.5°	469.8	469.7	469.4	468.9	468.4	467.9	467.4
140°	489.5	489.5	489.3	488.7	488.2	487.7	487.2
142.5°	507.3	507.4	507.2	506.6	506.1	505.6	505.1
145°	534.2	534.3	534.1	533.6	533.1	532.6	532.1
147.5°	558.0	558.3	558.2	557.6	557.1	556.6	556.1
150°	573.0	573.4	573.4	573.0	572.6	572.2	571.9
152.5°	588.0	588.5	588.5	588.0	587.5	587.0	586.6
155°	607.1	607.8	607.9	607.5	607.1	606.7	606.4
157.5°	624.9	625.8	625.9	625.3	624.7	624.1	623.4
160°	635.2	635.9	636.1	635.6	635.1	634.5	634.0
162.5°	644.7	645.6	645.7	645.1	644.5	643.9	643.3
165°	656.9	657.7	657.9	657.2	656.6	656.0	655.3
167.5°	666.9	667.8	667.9	667.2	666.6	665.9	665.2
170°	672.5	673.3	673.4	672.6	671.9	671.1	670.3
172.5°	676.6	677.4	677.5	676.8	676.0	675.2	674.5
175°	681.1	682.0	682.1	681.3	680.4	679.7	678.9
177.5°	682.9	683.5	683.5	682.9	682.3	681.7	681.1
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4

(END OF REPORT)