

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: P332399-927

Luminaire Tested: **S123RDIW-S340D1030U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332399-927  
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: S123RDIW-S340D1030U927-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1030 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3907.2 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Indirect

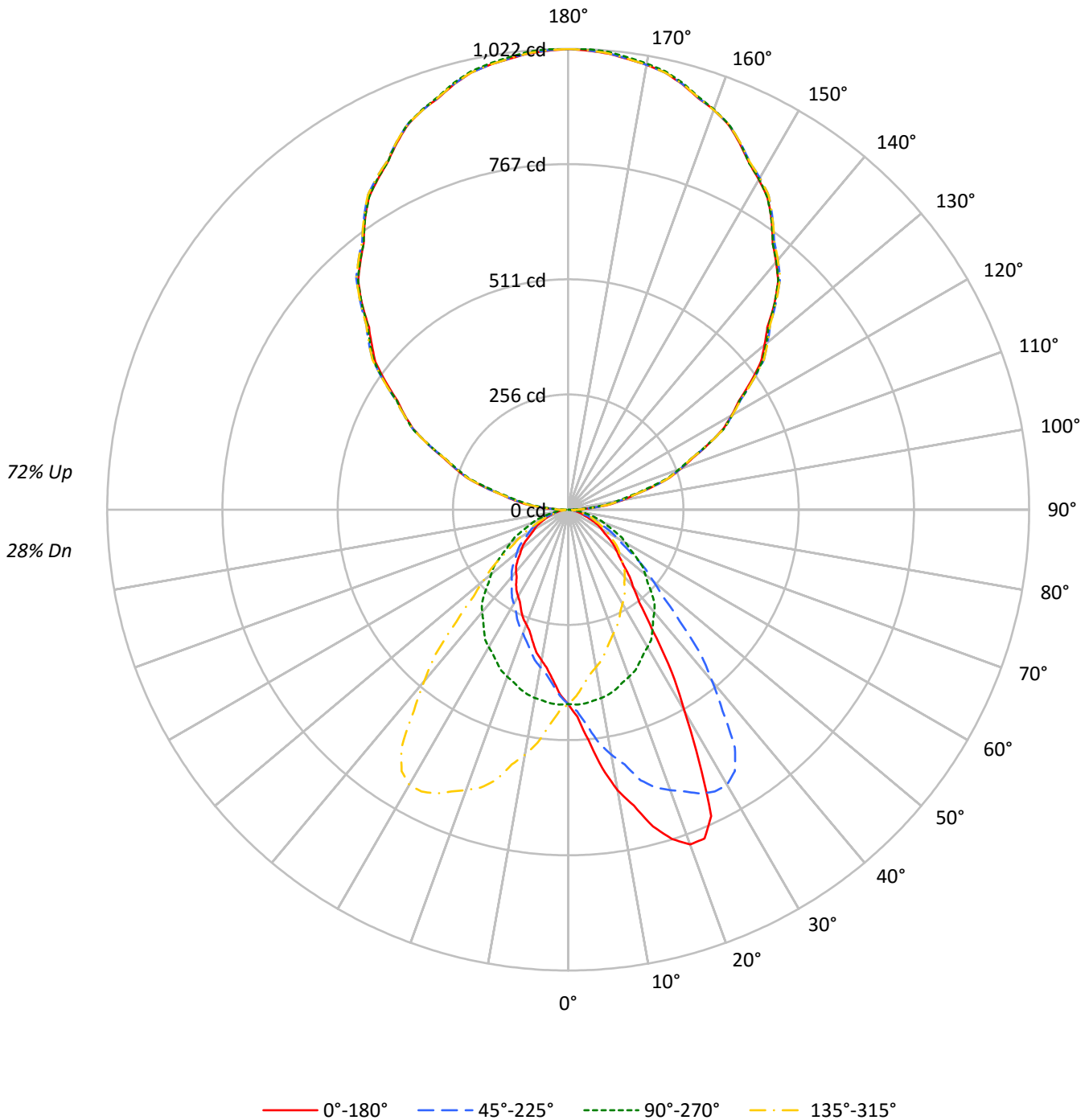
Input Watts (W): 38  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	102	102	102	102	91	91	91	91	71	71	71	52	52	52	36	36	36	28					28			
1	93	89	85	82	83	80	77	74	62	60	59	46	45	44	32	31	31	24					24			
2	85	78	72	67	76	70	65	61	55	52	49	41	39	37	28	27	26	20					20			
3	78	69	62	56	69	62	56	51	49	45	41	37	34	32	25	24	23	18					18			
4	71	61	54	48	63	55	49	44	43	39	35	33	30	27	23	21	20	15					15			
5	65	54	47	41	58	49	42	38	39	34	31	29	26	24	21	19	17	14					14			
6	60	49	41	36	54	44	37	33	35	30	27	27	23	21	19	17	15	12					12			
7	55	44	36	31	50	40	33	29	32	27	24	24	21	19	17	15	14	11					11			
8	51	40	32	27	46	36	30	25	29	24	21	22	19	17	16	14	12	10					10			
9	48	36	29	24	43	33	27	22	26	22	19	20	17	15	15	13	11	9					9			
10	45	33	26	22	40	30	24	20	24	20	17	19	16	13	14	12	10	8					8			

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

	0°	90°	180°	270°
0°	4640	4640	4640	4640
5°	5532	4660	4105	4660
10°	6907	4634	3707	4634
15°	8107	4586	3381	4586
20°	9049	4515	3103	4515
25°	8904	4441	2932	4441
30°	6400	4373	2757	4373
35°	4273	4282	2643	4282
40°	3147	4175	2525	4175
45°	2641	3987	2411	3987
50°	2331	3739	2251	3739
55°	2044	3457	2029	3457
60°	1819	3186	1858	3186
65°	1597	2896	1729	2896
70°	1253	2637	1580	2637
75°	1102	2304	1443	2304
80°	961	1953	1420	1953
85°	778	1581	1507	1581



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.4	1.1
10°-20°	132.5	3.4
20°-30°	208.1	5.3
30°-40°	217.1	5.6
40°-50°	185.8	4.8
50°-60°	141.6	3.6
60°-70°	90.8	2.3
70°-80°	43.7	1.1
80°-90°	14.6	0.4
90°-100°	66.6	1.7
100°-110°	199.2	5.1
110°-120°	338.8	8.7
120°-130°	445.7	11.4
130°-140°	500.9	12.8
140°-150°	492.4	12.6
150°-160°	414.5	10.6
160°-170°	275.9	7.1
170°-180°	96.6	2.5
0°-30°	382.9	9.8
0°-40°	600.1	15.4
0°-60°	927.5	23.7
0°-90°	1076.5	27.6
90°-120°	604.6	15.5
90°-150°	2043.6	52.3
90°-180°	2831.0	72.5
0°-180°	3907.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	431	431	431	431	431	
5°	512	431	380	431	512	53
15°	728	412	303	412	728	206
25°	750	374	247	374	750	322
35°	325	326	201	326	325	213
45°	174	262	158	262	174	136
55°	109	184	108	184	109	98
65°	63	114	68	114	63	62
75°	26	55	35	55	26	28
85°	6	13	12	13	6	8
90°	24	1	24	1	24	12
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°	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	459.2	459.8	457.9	457.6	455.3	454.8	454.8	451.6	449.7	447.3	445.8
5°	512.0	514.9	513.4	510.2	504.6	503.3	499.8	494.2	488.0	480.2	476.6
7.5°	577.9	581.9	580.4	575.3	569.4	564.7	554.8	545.7	532.8	521.5	511.8
10°	631.9	627.7	624.4	619.4	614.0	605.4	595.0	580.8	564.4	551.4	537.1
12.5°	672.4	671.7	667.5	662.3	654.8	646.6	633.8	616.6	597.5	578.8	562.3
15°	727.5	728.6	725.9	720.6	709.8	695.2	676.0	668.8	641.5	621.2	600.9
17.5°	765.7	765.5	765.1	757.7	746.8	736.4	718.6	699.7	674.9	646.3	619.0
20°	790.0	788.1	788.5	780.1	772.1	760.0	742.7	715.2	694.9	661.9	633.6
22.5°	789.3	788.9	790.4	787.5	781.6	772.5	758.8	735.5	709.6	676.3	644.5
25°	749.7	748.2	756.9	759.3	768.7	770.4	766.3	753.6	729.0	694.7	655.4
27.5°	627.4	626.6	642.7	662.9	688.4	708.3	727.5	736.7	729.0	704.4	665.0
30°	514.9	532.3	540.4	569.6	602.1	640.8	674.8	707.0	715.0	704.3	672.0
32.5°	427.5	442.7	449.5	474.4	504.8	550.2	601.1	646.8	679.1	687.3	667.9
35°	325.2	325.3	340.9	352.0	380.0	426.7	476.2	537.4	598.3	644.5	649.3
37.5°	259.5	260.4	269.8	280.8	301.9	326.5	370.1	421.0	491.4	562.2	603.8
40°	224.0	225.7	232.7	243.6	258.7	277.4	311.3	359.3	418.0	496.9	561.3
42.5°	201.3	204.0	207.6	216.0	225.4	242.9	270.3	307.4	360.8	435.3	509.6
45°	173.5	175.0	177.8	181.6	190.1	202.2	220.7	245.7	289.9	349.9	424.3
47.5°	153.0	152.3	155.2	158.3	164.0	172.3	184.7	204.9	236.5	284.7	347.8
50°	139.2	138.9	141.0	143.4	148.8	154.9	165.0	180.3	205.4	245.3	303.1
52.5°	126.2	126.8	128.3	131.3	135.1	140.1	149.2	160.3	181.8	216.2	264.4
55°	108.9	109.5	111.5	113.1	115.9	120.9	126.6	135.9	150.6	174.6	214.3
57.5°	94.3	94.0	95.9	96.4	99.5	103.5	108.0	115.2	125.9	143.7	170.4
60°	84.5	84.0	85.6	86.9	88.6	91.9	95.6	102.6	111.1	124.2	147.1
62.5°	75.7	75.4	76.6	78.0	79.3	82.3	85.4	90.8	97.5	108.5	126.7
65°	62.7	63.3	63.8	64.4	65.1	67.0	69.9	73.7	78.3	86.0	99.1
67.5°	49.4	49.9	50.1	51.2	52.8	53.9	55.8	59.0	62.3	68.8	76.2
70°	39.8	39.7	39.8	40.4	42.5	44.4	46.9	49.3	51.3	55.9	62.2
72.5°	34.2	33.9	34.4	34.5	35.5	36.0	37.5	39.8	42.5	45.6	50.1
75°	26.5	26.5	26.5	26.5	27.3	27.6	28.2	28.8	29.7	31.2	34.5
77.5°	19.6	19.6	20.0	20.1	20.3	20.5	20.8	21.4	21.7	22.5	23.9
80°	15.5	15.7	15.5	15.7	15.7	16.1	16.2	16.8	17.0	17.9	18.5
82.5°	11.6	11.6	11.6	11.9	11.9	12.2	12.3	12.7	12.7	13.2	13.7
85°	6.3	5.9	6.3	6.1	6.5	6.1	6.3	6.7	6.7	6.8	7.6
87.5°	6.3	6.5	6.2	6.3	6.2	6.2	6.0	5.9	6.1	5.8	5.5
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°	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	445.1	444.7	442.7	440.3	437.2	435.1	433.5	432.6	429.9	426.7	424.5
5°	472.7	467.1	461.2	454.0	447.3	440.5	436.3	431.3	425.2	418.4	413.6
7.5°	502.1	491.2	479.6	467.5	455.6	444.9	435.4	427.3	417.6	407.8	401.0
10°	524.7	508.8	492.4	475.6	460.3	445.9	434.8	424.0	412.3	401.1	392.5
12.5°	545.3	524.3	505.4	484.7	465.2	448.0	432.1	419.2	405.2	393.2	383.6
15°	571.2	549.8	527.0	495.5	469.5	447.7	428.3	411.5	394.6	379.9	370.4
17.5°	595.5	563.3	532.5	506.4	472.5	445.4	421.7	401.6	382.9	367.3	355.7
20°	605.5	574.3	541.0	507.6	474.4	443.9	416.4	394.2	374.9	357.1	346.4
22.5°	611.6	576.3	541.1	505.2	469.9	438.2	411.1	386.7	365.7	348.9	335.6
25°	618.6	576.6	537.8	502.4	466.4	432.1	399.7	373.9	351.3	333.4	319.3
27.5°	623.3	573.8	528.0	488.6	452.1	418.0	388.3	360.9	337.9	318.9	303.9
30°	624.2	571.6	520.5	477.8	440.8	409.3	378.0	351.8	327.4	307.3	293.3
32.5°	625.3	566.1	510.2	465.0	427.0	395.9	367.5	342.5	317.5	297.7	283.4
35°	620.5	563.1	494.8	442.8	404.7	374.6	349.0	325.9	301.4	282.2	267.6
37.5°	599.5	551.1	478.8	417.7	378.0	350.1	329.2	309.1	286.6	265.9	252.2
40°	578.5	539.3	466.4	402.5	361.0	332.4	313.5	297.1	275.4	256.0	241.2
42.5°	547.0	523.2	454.6	386.6	341.8	314.3	298.3	283.0	263.9	244.2	230.3
45°	489.3	492.4	430.4	361.2	315.2	287.6	272.6	261.9	244.9	228.7	214.4
47.5°	416.9	446.2	402.0	334.1	287.2	261.3	248.2	238.8	227.4	211.4	198.4
50°	369.7	411.5	379.3	316.0	269.7	243.8	230.9	223.3	213.3	200.8	188.5
52.5°	326.1	371.1	351.8	295.7	250.6	227.0	214.4	208.1	200.2	188.4	177.2
55°	265.9	311.6	307.1	265.2	222.0	200.8	191.2	184.2	178.9	170.0	161.1
57.5°	215.2	258.3	260.6	231.2	196.9	175.9	167.6	162.3	158.8	152.2	143.9
60°	183.1	222.8	230.5	208.3	178.9	160.4	152.3	148.0	145.3	139.9	133.6
62.5°	156.5	190.3	199.1	183.2	161.6	144.3	137.9	133.9	132.0	127.4	121.8
65°	119.8	147.8	156.3	147.5	136.2	122.4	117.2	113.7	112.0	109.5	105.4
67.5°	90.1	110.5	119.9	113.6	109.5	100.8	97.5	95.6	94.1	92.4	89.0
70°	72.3	87.5	97.0	95.5	92.1	87.5	85.1	83.8	82.3	80.8	77.9
72.5°	58.1	68.6	77.6	78.4	75.7	74.8	72.6	72.1	71.2	69.5	67.8
75°	38.6	45.8	52.0	54.4	55.5	56.5	55.5	55.4	55.2	53.7	52.8
77.5°	25.3	29.2	33.1	37.2	39.0	40.2	40.5	41.2	40.6	39.9	39.5
80°	19.4	20.3	23.1	26.5	29.3	30.4	31.2	31.5	31.4	31.2	30.4
82.5°	14.1	14.8	16.2	18.6	20.9	22.7	23.2	23.1	23.5	23.7	23.1
85°	7.6	7.8	8.2	8.5	9.7	11.8	12.4	12.8	13.1	13.1	12.0
87.5°	5.3	4.7	4.5	4.1	4.2	4.0	4.5	4.9	5.4	5.1	5.5
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



TEST NUMBER: P332399-927

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	423.7	421.8	420.5	417.6	415.7	413.6	411.5	412.8	412.6	412.6	412.6
5°	409.6	405.3	401.4	396.4	393.3	389.4	386.5	386.1	386.8	384.3	382.8
7.5°	395.5	389.7	384.1	378.7	372.8	368.1	365.3	363.8	362.0	360.4	358.8
10°	385.6	378.7	373.4	366.5	360.3	354.7	351.3	348.8	347.5	346.3	343.8
12.5°	375.3	368.7	361.9	354.1	348.2	341.7	339.1	336.4	334.0	332.5	329.2
15°	360.4	351.8	344.6	336.4	329.8	323.5	319.9	314.5	313.8	311.9	308.6
17.5°	345.5	336.1	326.1	320.1	312.7	306.1	300.5	298.7	293.4	291.4	288.5
20°	333.7	325.0	317.4	309.5	298.7	292.6	288.1	285.7	281.5	278.8	277.0
22.5°	323.5	314.7	305.9	296.7	287.7	280.8	277.6	273.9	271.6	267.9	265.9
25°	309.0	299.4	288.8	278.8	272.4	267.3	262.1	258.7	255.4	253.7	250.1
27.5°	292.1	282.0	272.2	264.6	256.7	251.6	246.9	244.0	240.0	237.2	235.1
30°	282.7	270.9	262.4	255.6	245.5	240.7	237.2	233.5	230.5	227.6	225.5
32.5°	272.0	261.2	253.2	244.7	236.9	231.6	227.1	223.9	221.3	218.6	216.5
35°	255.1	246.1	237.7	229.3	223.5	218.2	212.8	210.0	207.6	205.0	203.2
37.5°	239.8	231.3	223.4	215.4	208.3	203.9	199.6	197.5	194.2	192.5	190.7
40°	230.4	222.0	213.6	205.8	198.4	195.1	191.2	188.1	185.1	183.8	181.8
42.5°	220.0	211.7	204.5	196.2	190.1	185.6	182.0	178.6	176.4	174.5	173.4
45°	204.7	197.3	190.3	182.0	176.3	172.4	168.3	165.2	163.2	161.8	159.9
47.5°	189.8	182.4	175.3	168.1	162.6	158.1	154.0	151.9	149.2	147.6	146.2
50°	179.0	172.4	164.9	158.2	152.7	148.2	144.9	142.1	139.7	137.7	136.7
52.5°	169.1	162.1	155.5	149.3	143.5	138.5	135.5	132.5	130.7	128.4	127.3
55°	152.8	146.0	140.5	134.4	128.7	124.4	120.7	118.1	116.3	113.7	112.3
57.5°	137.5	131.3	124.8	119.5	113.6	110.0	106.9	103.5	101.2	99.2	97.7
60°	127.1	120.2	114.4	109.5	104.3	99.7	96.9	94.1	91.7	89.7	88.4
62.5°	116.4	110.3	104.8	99.4	94.7	90.6	87.5	85.2	83.0	81.8	80.4
65°	99.8	95.1	89.5	85.1	80.6	77.7	75.1	73.1	71.6	70.7	69.6
67.5°	84.6	80.0	75.2	70.8	67.8	65.6	63.9	62.2	61.4	60.2	59.5
70°	74.8	69.9	65.7	62.3	59.4	57.8	56.6	55.4	54.7	53.2	52.4
72.5°	64.0	60.5	57.4	54.7	52.4	50.9	49.4	47.8	46.7	45.0	44.3
75°	50.4	47.2	44.8	43.0	41.5	39.5	37.5	35.8	35.3	34.7	34.5
77.5°	37.3	35.3	33.6	32.0	30.2	28.8	28.3	27.9	27.8	27.5	27.5
80°	29.3	27.5	26.2	24.4	23.3	23.3	23.3	22.9	23.1	23.1	23.1
82.5°	21.8	20.1	19.4	18.8	18.5	18.7	18.7	18.8	18.6	18.9	18.8
85°	11.2	11.4	11.8	11.6	11.8	11.8	12.2	12.0	12.2	11.8	12.2
87.5°	5.7	6.6	7.2	7.8	8.4	8.7	9.0	9.2	9.4	9.6	9.7
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



TEST NUMBER: P332399-927

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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



TEST NUMBER: P332399-927

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	410.7	410.6	410.7	410.2	410.7	410.6	410.7	412.6	412.6	412.6	412.8
5°	382.2	382.1	381.5	379.9	381.5	382.1	382.2	382.8	384.3	386.8	386.1
7.5°	357.3	357.0	355.5	355.5	355.5	357.0	357.3	358.8	360.4	362.0	363.8
10°	342.5	342.7	340.5	339.2	340.5	342.7	342.5	343.8	346.3	347.5	348.8
12.5°	328.2	327.4	325.6	324.2	325.6	327.4	328.2	329.2	332.5	334.0	336.4
15°	309.3	307.4	303.1	303.4	303.1	307.4	309.3	308.6	311.9	313.8	314.5
17.5°	287.1	285.7	285.7	283.0	285.7	285.7	287.1	288.5	291.4	293.4	298.7
20°	274.1	273.1	273.5	270.9	273.5	273.1	274.1	277.0	278.8	281.5	285.7
22.5°	263.9	262.9	261.4	260.6	261.4	262.9	263.9	265.9	267.9	271.6	273.9
25°	249.0	247.5	246.1	246.9	246.1	247.5	249.0	250.1	253.7	255.4	258.7
27.5°	234.1	233.0	231.5	231.3	231.5	233.0	234.1	235.1	237.2	240.0	244.0
30°	224.6	223.5	222.8	221.8	222.8	223.5	224.6	225.5	227.6	230.5	233.5
32.5°	215.0	214.8	213.5	213.3	213.5	214.8	215.0	216.5	218.6	221.3	223.9
35°	202.5	201.4	201.0	201.1	201.0	201.4	202.5	203.2	205.0	207.6	210.0
37.5°	190.5	189.1	188.4	187.7	188.4	189.1	190.5	190.7	192.5	194.2	197.5
40°	182.0	180.5	180.1	179.7	180.1	180.5	182.0	181.8	183.8	185.1	188.1
42.5°	172.4	171.8	171.6	170.9	171.6	171.8	172.4	173.4	174.5	176.4	178.6
45°	159.3	159.1	158.0	158.4	158.0	159.1	159.3	159.9	161.8	163.2	165.2
47.5°	145.4	144.7	143.9	144.4	143.9	144.7	145.4	146.2	147.6	149.2	151.9
50°	136.0	135.6	134.0	134.4	134.0	135.6	136.0	136.7	137.7	139.7	142.1
52.5°	126.6	125.2	124.5	124.3	124.5	125.2	126.6	127.3	128.4	130.7	132.5
55°	110.9	109.2	108.5	108.1	108.5	109.2	110.9	112.3	113.7	116.3	118.1
57.5°	95.5	95.1	94.5	94.9	94.5	95.1	95.5	97.7	99.2	101.2	103.5
60°	86.6	86.6	86.6	86.3	86.6	86.6	86.6	88.4	89.7	91.7	94.1
62.5°	79.6	79.1	79.1	79.3	79.1	79.1	79.6	80.4	81.8	83.0	85.2
65°	69.0	68.8	68.1	67.9	68.1	68.8	69.0	69.6	70.7	71.6	73.1
67.5°	59.0	58.4	58.1	57.9	58.1	58.4	59.0	59.5	60.2	61.4	62.2
70°	51.5	51.1	50.0	50.2	50.0	51.1	51.5	52.4	53.2	54.7	55.4
72.5°	43.4	43.0	42.8	42.5	42.8	43.0	43.4	44.3	45.0	46.7	47.8
75°	34.3	34.1	34.0	34.7	34.0	34.1	34.3	34.5	34.7	35.3	35.8
77.5°	27.5	27.5	27.6	27.3	27.6	27.5	27.5	27.5	27.5	27.8	27.9
80°	23.1	23.1	22.9	22.9	22.9	23.1	23.1	23.1	23.1	23.1	22.9
82.5°	18.5	18.6	18.8	18.5	18.8	18.6	18.5	18.8	18.9	18.6	18.8
85°	12.2	12.0	12.4	12.2	12.4	12.0	12.2	12.2	11.8	12.2	12.0
87.5°	10.1	9.8	9.9	10.1	9.9	9.8	10.1	9.7	9.6	9.4	9.2
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



TEST NUMBER: P332399-927

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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: P332399-927

CATALOG NUMBER: S123RDIW-S340D1030U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	411.5	413.6	415.7	417.6	420.5	421.8	423.7	424.5	426.7	429.9	432.6
5°	386.5	389.4	393.3	396.4	401.4	405.3	409.6	413.6	418.4	425.2	431.3
7.5°	365.3	368.1	372.8	378.7	384.1	389.7	395.5	401.0	407.8	417.6	427.3
10°	351.3	354.7	360.3	366.5	373.4	378.7	385.6	392.5	401.1	412.3	424.0
12.5°	339.1	341.7	348.2	354.1	361.9	368.7	375.3	383.6	393.2	405.2	419.2
15°	319.9	323.5	329.8	336.4	344.6	351.8	360.4	370.4	379.9	394.6	411.5
17.5°	300.5	306.1	312.7	320.1	326.1	336.1	345.5	355.7	367.3	382.9	401.6
20°	288.1	292.6	298.7	309.5	317.4	325.0	333.7	346.4	357.1	374.9	394.2
22.5°	277.6	280.8	287.7	296.7	305.9	314.7	323.5	335.6	348.9	365.7	386.7
25°	262.1	267.3	272.4	278.8	288.8	299.4	309.0	319.3	333.4	351.3	373.9
27.5°	246.9	251.6	256.7	264.6	272.2	282.0	292.1	303.9	318.9	337.9	360.9
30°	237.2	240.7	245.5	255.6	262.4	270.9	282.7	293.3	307.3	327.4	351.8
32.5°	227.1	231.6	236.9	244.7	253.2	261.2	272.0	283.4	297.7	317.5	342.5
35°	212.8	218.2	223.5	229.3	237.7	246.1	255.1	267.6	282.2	301.4	325.9
37.5°	199.6	203.9	208.3	215.4	223.4	231.3	239.8	252.2	265.9	286.6	309.1
40°	191.2	195.1	198.4	205.8	213.6	222.0	230.4	241.2	256.0	275.4	297.1
42.5°	182.0	185.6	190.1	196.2	204.5	211.7	220.0	230.3	244.2	263.9	283.0
45°	168.3	172.4	176.3	182.0	190.3	197.3	204.7	214.4	228.7	244.9	261.9
47.5°	154.0	158.1	162.6	168.1	175.3	182.4	189.8	198.4	211.4	227.4	238.8
50°	144.9	148.2	152.7	158.2	164.9	172.4	179.0	188.5	200.8	213.3	223.3
52.5°	135.5	138.5	143.5	149.3	155.5	162.1	169.1	177.2	188.4	200.2	208.1
55°	120.7	124.4	128.7	134.4	140.5	146.0	152.8	161.1	170.0	178.9	184.2
57.5°	106.9	110.0	113.6	119.5	124.8	131.3	137.5	143.9	152.2	158.8	162.3
60°	96.9	99.7	104.3	109.5	114.4	120.2	127.1	133.6	139.9	145.3	148.0
62.5°	87.5	90.6	94.7	99.4	104.8	110.3	116.4	121.8	127.4	132.0	133.9
65°	75.1	77.7	80.6	85.1	89.5	95.1	99.8	105.4	109.5	112.0	113.7
67.5°	63.9	65.6	67.8	70.8	75.2	80.0	84.6	89.0	92.4	94.1	95.6
70°	56.6	57.8	59.4	62.3	65.7	69.9	74.8	77.9	80.8	82.3	83.8
72.5°	49.4	50.9	52.4	54.7	57.4	60.5	64.0	67.8	69.5	71.2	72.1
75°	37.5	39.5	41.5	43.0	44.8	47.2	50.4	52.8	53.7	55.2	55.4
77.5°	28.3	28.8	30.2	32.0	33.6	35.3	37.3	39.5	39.9	40.6	41.2
80°	23.3	23.3	23.3	24.4	26.2	27.5	29.3	30.4	31.2	31.4	31.5
82.5°	18.7	18.7	18.5	18.8	19.4	20.1	21.8	23.1	23.7	23.5	23.1
85°	12.2	11.8	11.8	11.6	11.8	11.4	11.2	12.0	13.1	13.1	12.8
87.5°	9.0	8.7	8.4	7.8	7.2	6.6	5.7	5.5	5.1	5.4	4.9
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°	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	433.5	435.1	437.2	440.3	442.7	444.7	445.1	445.8	447.3	449.7	451.6
5°	436.3	440.5	447.3	454.0	461.2	467.1	472.7	476.6	480.2	488.0	494.2
7.5°	435.4	444.9	455.6	467.5	479.6	491.2	502.1	511.8	521.5	532.8	545.7
10°	434.8	445.9	460.3	475.6	492.4	508.8	524.7	537.1	551.4	564.4	580.8
12.5°	432.1	448.0	465.2	484.7	505.4	524.3	545.3	562.3	578.8	597.5	616.6
15°	428.3	447.7	469.5	495.5	527.0	549.8	571.2	600.9	621.2	641.5	668.8
17.5°	421.7	445.4	472.5	506.4	532.5	563.3	595.5	619.0	646.3	674.9	699.7
20°	416.4	443.9	474.4	507.6	541.0	574.3	605.5	633.6	661.9	694.9	715.2
22.5°	411.1	438.2	469.9	505.2	541.1	576.3	611.6	644.5	676.3	709.6	735.5
25°	399.7	432.1	466.4	502.4	537.8	576.6	618.6	655.4	694.7	729.0	753.6
27.5°	388.3	418.0	452.1	488.6	528.0	573.8	623.3	665.0	704.4	729.0	736.7
30°	378.0	409.3	440.8	477.8	520.5	571.6	624.2	672.0	704.3	715.0	707.0
32.5°	367.5	395.9	427.0	465.0	510.2	566.1	625.3	667.9	687.3	679.1	646.8
35°	349.0	374.6	404.7	442.8	494.8	563.1	620.5	649.3	644.5	598.3	537.4
37.5°	329.2	350.1	378.0	417.7	478.8	551.1	599.5	603.8	562.2	491.4	421.0
40°	313.5	332.4	361.0	402.5	466.4	539.3	578.5	561.3	496.9	418.0	359.3
42.5°	298.3	314.3	341.8	386.6	454.6	523.2	547.0	509.6	435.3	360.8	307.4
45°	272.6	287.6	315.2	361.2	430.4	492.4	489.3	424.3	349.9	289.9	245.7
47.5°	248.2	261.3	287.2	334.1	402.0	446.2	416.9	347.8	284.7	236.5	204.9
50°	230.9	243.8	269.7	316.0	379.3	411.5	369.7	303.1	245.3	205.4	180.3
52.5°	214.4	227.0	250.6	295.7	351.8	371.1	326.1	264.4	216.2	181.8	160.3
55°	191.2	200.8	222.0	265.2	307.1	311.6	265.9	214.3	174.6	150.6	135.9
57.5°	167.6	175.9	196.9	231.2	260.6	258.3	215.2	170.4	143.7	125.9	115.2
60°	152.3	160.4	178.9	208.3	230.5	222.8	183.1	147.1	124.2	111.1	102.6
62.5°	137.9	144.3	161.6	183.2	199.1	190.3	156.5	126.7	108.5	97.5	90.8
65°	117.2	122.4	136.2	147.5	156.3	147.8	119.8	99.1	86.0	78.3	73.7
67.5°	97.5	100.8	109.5	113.6	119.9	110.5	90.1	76.2	68.8	62.3	59.0
70°	85.1	87.5	92.1	95.5	97.0	87.5	72.3	62.2	55.9	51.3	49.3
72.5°	72.6	74.8	75.7	78.4	77.6	68.6	58.1	50.1	45.6	42.5	39.8
75°	55.5	56.5	55.5	54.4	52.0	45.8	38.6	34.5	31.2	29.7	28.8
77.5°	40.5	40.2	39.0	37.2	33.1	29.2	25.3	23.9	22.5	21.7	21.4
80°	31.2	30.4	29.3	26.5	23.1	20.3	19.4	18.5	17.9	17.0	16.8
82.5°	23.2	22.7	20.9	18.6	16.2	14.8	14.1	13.7	13.2	12.7	12.7
85°	12.4	11.8	9.7	8.5	8.2	7.8	7.6	7.6	6.8	6.7	6.7
87.5°	4.5	4.0	4.2	4.1	4.5	4.7	5.3	5.5	5.8	6.1	5.9
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°	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	454.8	454.8	455.3	457.6	457.9	459.8	459.2
5°	499.8	503.3	504.6	510.2	513.4	514.9	512.0
7.5°	554.8	564.7	569.4	575.3	580.4	581.9	577.9
10°	595.0	605.4	614.0	619.4	624.4	627.7	631.9
12.5°	633.8	646.6	654.8	662.3	667.5	671.7	672.4
15°	676.0	695.2	709.8	720.6	725.9	728.6	727.5
17.5°	718.6	736.4	746.8	757.7	765.1	765.5	765.7
20°	742.7	760.0	772.1	780.1	788.5	788.1	790.0
22.5°	758.8	772.5	781.6	787.5	790.4	788.9	789.3
25°	766.3	770.4	768.7	759.3	756.9	748.2	749.7
27.5°	727.5	708.3	688.4	662.9	642.7	626.6	627.4
30°	674.8	640.8	602.1	569.6	540.4	532.3	514.9
32.5°	601.1	550.2	504.8	474.4	449.5	442.7	427.5
35°	476.2	426.7	380.0	352.0	340.9	325.3	325.2
37.5°	370.1	326.5	301.9	280.8	269.8	260.4	259.5
40°	311.3	277.4	258.7	243.6	232.7	225.7	224.0
42.5°	270.3	242.9	225.4	216.0	207.6	204.0	201.3
45°	220.7	202.2	190.1	181.6	177.8	175.0	173.5
47.5°	184.7	172.3	164.0	158.3	155.2	152.3	153.0
50°	165.0	154.9	148.8	143.4	141.0	138.9	139.2
52.5°	149.2	140.1	135.1	131.3	128.3	126.8	126.2
55°	126.6	120.9	115.9	113.1	111.5	109.5	108.9
57.5°	108.0	103.5	99.5	96.4	95.9	94.0	94.3
60°	95.6	91.9	88.6	86.9	85.6	84.0	84.5
62.5°	85.4	82.3	79.3	78.0	76.6	75.4	75.7
65°	69.9	67.0	65.1	64.4	63.8	63.3	62.7
67.5°	55.8	53.9	52.8	51.2	50.1	49.9	49.4
70°	46.9	44.4	42.5	40.4	39.8	39.7	39.8
72.5°	37.5	36.0	35.5	34.5	34.4	33.9	34.2
75°	28.2	27.6	27.3	26.5	26.5	26.5	26.5
77.5°	20.8	20.5	20.3	20.1	20.0	19.6	19.6
80°	16.2	16.1	15.7	15.7	15.5	15.7	15.5
82.5°	12.3	12.2	11.9	11.9	11.6	11.6	11.6
85°	6.3	6.1	6.5	6.1	6.3	5.9	6.3
87.5°	6.0	6.2	6.2	6.3	6.2	6.5	6.3
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)