

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: P332509-840

Luminaire Tested: **SA4XXDIP-C350D810U840-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332509-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-C350D810U840-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 810 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4427.1 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Indirect

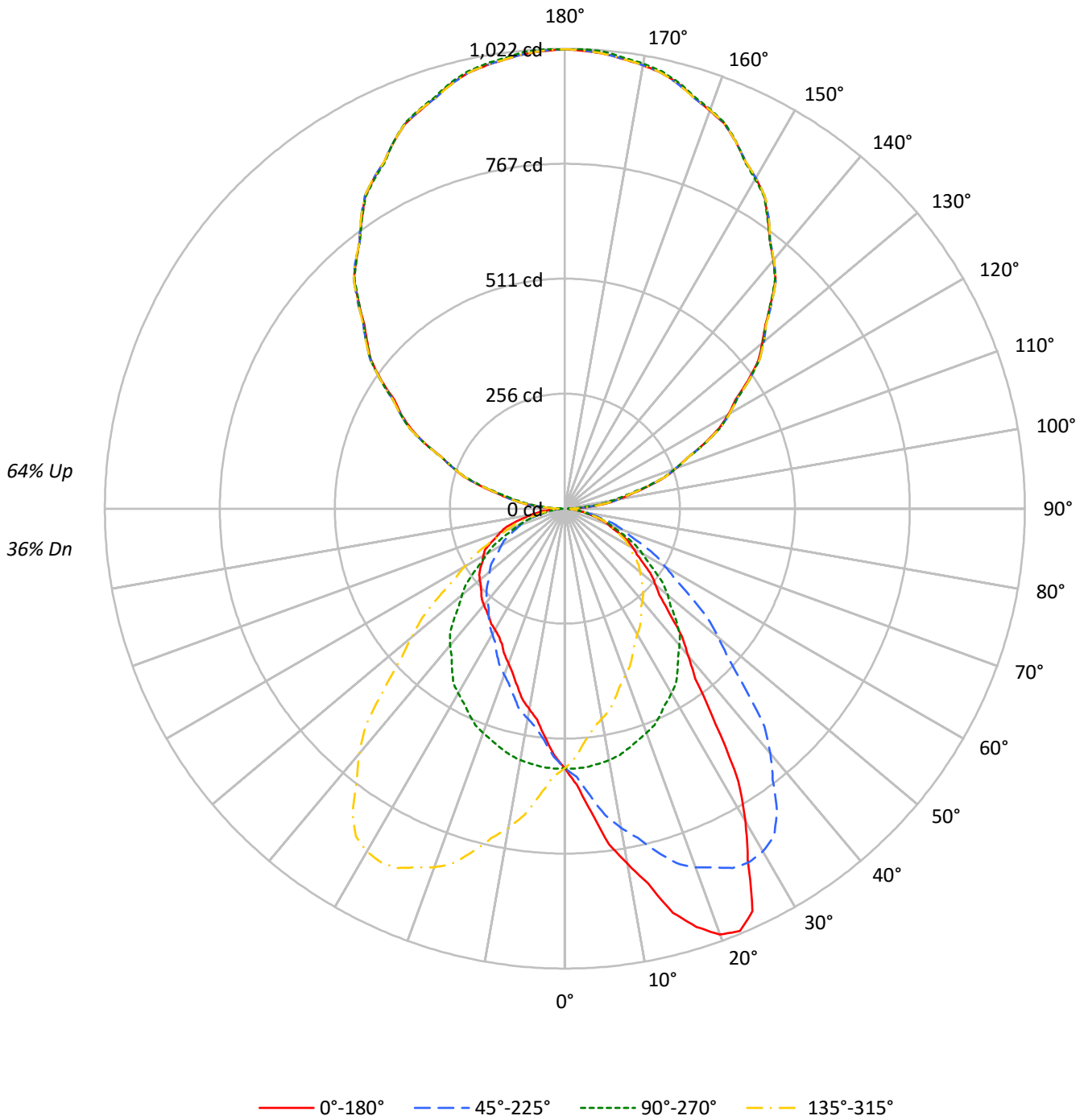
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43	36				
1	95	91	87	83	86	82	79	76	66	64	62	52	50	49	38	38	37	31				
2	86	79	73	68	78	72	67	63	58	55	52	46	43	41	34	33	31	26				
3	79	70	63	57	71	63	57	53	52	47	44	41	38	35	30	28	27	22				
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23	19				
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	25	22	20	17				
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15				
7	56	44	37	31	51	41	34	29	33	28	25	27	23	20	20	18	16	13				
8	52	40	33	28	47	37	30	26	30	25	22	24	21	18	19	16	14	12				
9	49	37	29	25	44	34	27	23	28	23	19	22	19	16	17	15	13	11				
10	45	34	27	22	41	31	25	20	26	21	17	21	17	15	16	13	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4657	4657	4657	4657
5°	5485	4669	4122	4669
10°	6567	4649	3710	4649
15°	7770	4603	3408	4603
20°	8652	4554	3137	4554
25°	8792	4483	2950	4483
30°	7481	4416	2892	4416
35°	5752	4306	2893	4306
40°	4484	4176	2947	4176
45°	3738	3981	2997	3981
50°	3291	3743	3097	3743
55°	3015	3458	3222	3458
60°	2824	3202	3371	3202
65°	2628	2917	3498	2917
70°	2403	2634	3576	2634
75°	2149	2318	3534	2318
80°	1799	1901	3422	1901
85°	1325	1371	3270	1371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.2	1.3
10°-20°	173.3	3.9
20°-30°	274.7	6.2
30°-40°	305.7	6.9
40°-50°	278.3	6.3
50°-60°	227.4	5.1
60°-70°	162.4	3.7
70°-80°	89.4	2.0
80°-90°	27.5	0.6
90°-100°	67.3	1.5
100°-110°	199.5	4.5
110°-120°	338.5	7.6
120°-130°	446.4	10.1
130°-140°	501.3	11.3
140°-150°	492.6	11.1
150°-160°	414.3	9.4
160°-170°	275.7	6.2
170°-180°	96.5	2.2
0°-30°	504.2	11.4
0°-40°	809.9	18.3
0°-60°	1315.6	29.7
0°-90°	1594.9	36.0
90°-120°	605.4	13.7
90°-150°	2045.7	46.2
90°-180°	2832.0	64.0
0°-180°	4427.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	577	577	577	577	577	
5°	677	576	509	576	677	69
15°	930	551	408	551	930	263
25°	987	503	331	503	987	435
35°	584	437	294	437	584	370
45°	327	349	262	349	327	258
55°	214	246	229	246	214	193
65°	138	153	183	153	138	136
75°	69	74	113	74	69	73
85°	14	15	35	15	14	18
90°	24	2	24	2	24	13
95°	62	47	62	47	62	65
105°	193	184	193	184	193	203
115°	341	344	341	344	341	337
125°	497	501	497	501	497	444
135°	647	647	647	647	647	500
145°	786	786	786	786	786	492
155°	899	900	899	900	899	414
165°	977	980	977	980	977	275
175°	1014	1019	1014	1019	1014	96
180°	1021	1021	1021	1021	1021	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	614.0	613.9	612.0	611.6	610.3	608.5	608.1	605.0	599.0	596.0	595.3
5°	676.8	681.7	675.4	674.2	673.5	665.6	661.6	656.8	645.8	639.3	634.3
7.5°	751.8	752.3	749.6	747.5	741.3	734.5	724.2	713.2	700.0	686.5	676.2
10°	801.1	803.0	799.9	799.5	787.3	779.6	764.4	751.4	736.6	720.1	705.1
12.5°	853.1	850.5	848.9	838.7	836.4	822.4	804.7	791.4	768.5	749.5	729.5
15°	929.7	924.4	921.1	907.1	900.1	880.7	861.8	847.3	817.4	788.9	767.4
17.5°	974.6	979.9	972.2	966.3	948.5	934.8	915.5	884.9	861.6	826.3	799.1
20°	1007.1	1007.6	1003.3	997.3	983.3	966.0	945.0	911.6	883.6	848.5	811.1
22.5°	1015.9	1016.0	1014.2	1008.7	997.9	984.0	962.8	934.8	901.0	862.8	825.5
25°	987.0	986.1	988.3	994.5	990.5	986.1	973.9	953.1	921.6	881.2	841.0
27.5°	879.8	886.5	898.6	913.8	928.6	939.8	942.9	938.7	919.2	886.0	843.8
30°	802.5	810.7	819.8	835.1	864.7	881.7	900.3	914.4	906.6	880.0	840.8
32.5°	717.7	719.7	733.2	750.5	777.7	810.3	839.9	868.6	878.1	864.1	831.4
35°	583.6	587.0	601.6	618.7	652.0	692.0	736.4	776.1	808.8	821.9	805.2
37.5°	476.3	485.8	496.1	514.6	543.9	579.9	626.0	677.4	726.2	758.9	764.5
40°	425.5	431.4	438.8	452.9	477.8	513.1	552.8	611.6	663.5	710.3	725.6
42.5°	385.3	388.8	393.3	406.1	425.0	460.2	496.4	548.2	600.2	656.2	681.9
45°	327.4	331.0	338.7	346.1	360.4	384.8	418.5	461.0	513.4	567.3	614.7
47.5°	285.7	287.9	292.5	300.4	312.7	328.7	356.1	391.6	440.1	492.6	543.0
50°	262.0	263.9	267.4	274.6	284.0	298.3	320.7	354.0	391.9	444.7	494.2
52.5°	243.2	244.0	246.6	251.5	258.9	270.9	289.4	316.9	352.2	399.3	448.6
55°	214.2	215.1	217.5	221.1	227.5	235.2	249.2	269.8	300.6	341.5	384.4
57.5°	190.3	191.0	192.9	194.3	199.7	205.8	216.7	231.4	254.7	289.4	327.6
60°	174.9	174.5	176.8	178.0	181.7	186.9	195.3	209.3	229.6	257.6	292.8
62.5°	160.1	159.4	161.4	163.0	165.0	169.5	176.3	187.3	203.9	229.1	259.5
65°	137.6	136.7	137.9	139.9	141.7	144.1	149.2	159.0	172.1	190.3	213.4
67.5°	115.2	116.2	116.4	117.3	118.5	121.7	125.1	132.1	141.4	155.9	175.5
70°	101.8	102.1	103.0	103.0	103.7	106.6	109.5	113.5	122.6	136.0	152.0
72.5°	88.5	89.5	89.1	89.8	90.4	92.3	94.3	98.3	105.9	115.9	129.5
75°	68.9	69.6	69.6	69.8	70.5	71.2	72.9	75.7	81.3	88.7	98.0
77.5°	50.2	50.3	50.6	51.5	51.5	52.6	53.8	56.1	58.9	63.9	69.7
80°	38.7	39.2	39.0	39.5	39.5	40.4	40.9	43.7	44.9	48.3	52.8
82.5°	28.4	28.9	28.8	29.5	29.9	30.1	30.7	31.9	33.1	36.1	37.9
85°	14.3	14.8	14.3	14.8	15.6	15.8	16.5	16.8	17.7	18.4	20.1
87.5°	9.0	9.5	9.4	9.5	9.8	9.9	9.8	9.4	10.0	10.0	10.5
90°	23.7	23.3	23.0	22.6	22.3	21.6	20.5	19.5	18.4	17.4	16.0
92.5°	35.0	34.8	34.6	34.4	34.2	33.8	33.1	32.5	31.9	31.3	30.3
95°	62.4	62.4	62.4	62.4	62.4	62.1	61.6	61.1	60.5	60.0	58.8
97.5°	97.8	97.8	97.8	97.8	97.8	97.5	96.7	96.1	95.5	94.9	93.4
100°	122.4	122.4	122.4	122.4	122.4	122.2	121.9	121.5	121.2	120.8	119.2
102.5°	150.2	150.1	149.9	149.8	149.6	149.3	148.8	148.3	147.8	147.3	145.9
105°	192.7	192.1	191.6	191.1	190.6	190.0	189.5	188.9	188.4	187.9	187.2
107.5°	234.0	234.1	234.1	234.1	234.2	233.9	233.4	233.0	232.5	232.0	231.9
110°	263.7	263.2	262.7	262.2	261.6	261.5	261.9	262.2	262.6	262.9	263.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	294.0	293.9	293.8	293.7	293.6	293.6	293.7	293.7	293.8	293.9	294.2
115°	341.0	341.2	341.4	341.6	341.7	341.9	342.1	342.2	342.4	342.6	343.0
117.5°	385.9	386.3	386.6	387.0	387.3	387.8	388.4	389.0	389.6	390.2	390.4
120°	420.0	419.7	419.3	419.0	418.6	418.9	419.7	420.6	421.5	422.4	422.9
122.5°	448.5	449.1	449.7	450.3	451.0	451.6	452.2	452.7	453.3	453.9	454.2
125°	497.4	497.8	498.1	498.5	498.8	499.2	499.5	499.9	500.2	500.6	500.7
127.5°	542.7	543.0	543.3	543.5	543.8	544.1	544.5	544.8	545.2	545.5	545.8
130°	572.4	573.1	573.8	574.5	575.2	575.7	576.0	576.4	576.7	577.1	577.1
132.5°	604.0	604.2	604.5	604.8	605.1	605.4	605.7	606.1	606.4	606.8	606.9
135°	647.4	647.9	648.4	648.9	649.4	649.9	650.3	650.7	651.0	651.4	651.4
137.5°	693.1	692.9	692.8	692.7	692.6	692.8	693.3	693.7	694.2	694.6	694.3
140°	720.8	720.9	721.1	721.3	721.5	721.6	721.9	722.1	722.3	722.4	722.4
142.5°	748.6	748.6	748.7	748.7	748.7	748.8	748.8	748.8	748.9	748.9	749.0
145°	786.4	786.9	787.4	787.9	788.4	788.8	789.0	789.1	789.3	789.5	789.3
147.5°	824.6	824.8	824.9	825.1	825.3	825.4	825.6	825.7	825.9	826.0	826.1
150°	847.9	848.1	848.3	848.5	848.6	848.7	848.7	848.7	848.7	848.7	848.7
152.5°	869.4	869.9	870.3	870.8	871.2	871.2	870.8	870.4	870.0	869.6	869.4
155°	899.3	899.9	900.6	901.3	902.0	902.0	901.3	900.6	899.9	899.3	899.4
157.5°	925.9	926.6	927.2	927.8	928.3	928.4	927.9	927.3	926.8	926.2	926.2
160°	941.1	942.0	942.8	943.7	944.6	944.7	944.2	943.7	943.2	942.7	942.8
162.5°	956.8	957.8	958.7	959.5	960.4	960.4	959.4	958.5	957.6	956.5	956.7
165°	977.4	978.1	978.8	979.5	980.2	980.1	979.0	978.0	976.8	975.8	976.1
167.5°	992.1	993.2	994.2	995.3	996.4	996.4	995.4	994.3	993.3	992.2	992.2
170°	1000.3	1001.5	1002.8	1004.0	1005.2	1005.3	1004.2	1003.2	1002.1	1001.1	1000.9
172.5°	1007.2	1008.5	1009.7	1011.0	1012.2	1012.2	1011.0	1009.8	1008.6	1007.4	1007.3
175°	1014.5	1015.7	1016.9	1018.1	1019.5	1019.5	1018.1	1016.9	1015.7	1014.5	1014.7
177.5°	1018.2	1019.5	1020.6	1021.7	1022.8	1022.9	1021.9	1020.9	1019.9	1019.0	1019.0
180°	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	595.5	592.8	590.9	589.4	585.2	582.7	580.8	578.1	575.0	571.8	567.7
5°	629.2	621.2	615.2	606.1	597.5	590.4	582.9	576.2	568.2	559.3	552.8
7.5°	664.8	652.7	637.2	623.8	608.6	595.5	583.8	571.8	559.3	547.0	535.9
10°	687.4	671.9	654.6	634.3	615.2	598.2	582.5	567.1	552.3	537.6	524.8
12.5°	711.7	692.3	666.8	643.1	621.7	599.0	580.0	561.2	543.3	527.8	513.0
15°	744.3	716.3	686.9	655.1	626.9	600.4	574.3	550.7	530.6	510.0	495.6
17.5°	764.3	729.6	696.1	662.9	628.7	595.2	567.1	539.9	514.7	494.3	476.3
20°	777.5	743.1	701.3	668.0	627.4	593.0	560.5	530.1	503.8	482.1	463.4
22.5°	788.9	749.2	707.3	663.6	623.2	586.6	551.1	520.6	493.7	470.8	452.9
25°	795.2	749.5	704.1	660.6	614.7	571.5	539.2	503.3	474.6	450.5	431.4
27.5°	795.9	747.0	695.6	647.3	600.0	559.7	519.0	486.9	457.2	431.6	413.2
30°	793.8	742.9	687.6	635.3	587.7	544.0	508.6	473.7	443.3	418.0	398.9
32.5°	787.0	734.1	677.3	621.9	572.6	529.8	493.3	460.1	430.5	405.6	385.5
35°	767.7	715.3	654.9	597.2	546.8	503.6	470.6	436.9	407.3	383.6	364.3
37.5°	737.4	690.1	628.6	569.1	519.5	476.1	443.3	412.9	386.2	362.1	342.3
40°	711.0	669.4	607.7	549.7	496.1	454.8	424.2	396.3	369.7	347.0	328.1
42.5°	680.6	644.4	587.5	526.0	474.3	432.8	403.0	377.9	352.9	331.9	313.1
45°	626.4	602.5	549.0	492.1	438.3	399.1	370.7	348.7	327.7	307.1	291.3
47.5°	564.1	552.2	507.2	453.1	402.1	363.5	338.8	318.5	300.0	282.7	268.7
50°	522.2	516.4	477.6	425.5	376.7	340.3	315.5	298.0	282.3	267.0	253.8
52.5°	480.9	480.7	445.6	397.9	352.7	317.8	293.1	276.8	263.2	250.7	238.9
55°	417.8	424.4	397.0	354.5	314.1	282.5	260.2	245.7	236.1	225.9	217.0
57.5°	359.8	370.9	348.2	310.7	277.0	248.0	228.6	217.7	207.5	201.3	194.8
60°	321.9	332.4	314.8	283.3	251.5	226.6	208.1	198.3	189.6	185.2	180.7
62.5°	288.3	297.6	284.6	255.3	227.7	203.8	188.2	178.8	172.9	168.2	165.2
65°	240.2	248.1	236.8	215.6	191.9	172.8	160.2	152.7	147.0	145.1	141.7
67.5°	194.2	201.4	195.3	177.2	158.2	143.7	133.8	126.7	123.3	121.7	119.3
70°	166.8	174.0	167.5	151.8	137.1	125.0	115.6	111.6	108.1	107.3	104.0
72.5°	143.7	148.6	142.1	129.8	117.3	107.0	99.8	95.5	93.7	92.4	90.6
75°	107.8	112.1	107.8	98.3	89.4	82.2	76.0	74.3	72.2	71.5	70.3
77.5°	76.2	80.0	76.7	70.8	64.1	58.6	55.2	53.1	52.6	51.4	52.0
80°	58.3	60.7	57.6	53.5	48.3	44.4	42.1	40.9	39.5	39.0	39.9
82.5°	41.9	42.9	41.3	38.6	34.7	32.2	30.6	29.2	28.9	29.0	29.0
85°	21.7	21.5	21.3	18.9	17.7	16.1	15.0	14.8	14.5	15.0	15.6
87.5°	10.2	10.1	9.6	8.5	7.6	6.6	6.1	5.5	6.1	6.6	7.2
90°	14.5	13.1	11.7	10.1	8.2	6.3	4.3	2.3	4.3	6.3	8.2
92.5°	29.3	28.3	27.4	25.8	23.5	21.3	19.1	16.9	19.1	21.3	23.5
95°	57.6	56.4	55.1	53.7	52.1	50.5	49.0	47.4	49.0	50.5	52.1
97.5°	92.0	90.6	89.2	87.8	86.5	85.2	84.0	82.7	84.0	85.2	86.5
100°	117.6	116.0	114.5	113.3	112.6	111.9	111.2	110.6	111.2	111.9	112.6
102.5°	144.4	143.0	141.6	140.7	140.5	140.2	139.9	139.6	139.9	140.2	140.5
105°	186.5	185.8	185.1	184.7	184.5	184.3	184.1	184.0	184.1	184.3	184.5
107.5°	231.8	231.7	231.6	231.4	231.2	231.0	230.8	230.6	230.8	231.0	231.2
110°	263.3	263.5	263.6	263.5	263.2	262.8	262.5	262.2	262.5	262.8	263.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	294.5	294.8	295.1	295.3	295.2	295.1	295.0	295.0	295.0	295.1	295.2
115°	343.4	343.7	344.1	344.3	344.3	344.3	344.3	344.3	344.3	344.3	344.3
117.5°	390.6	390.9	391.1	391.2	391.0	390.9	390.8	390.6	390.8	390.9	391.0
120°	423.4	423.9	424.4	424.4	423.7	423.0	422.3	421.6	422.3	423.0	423.7
122.5°	454.4	454.7	454.9	454.9	454.6	454.3	454.0	453.8	454.0	454.3	454.6
125°	500.9	501.1	501.2	501.3	501.3	501.3	501.3	501.3	501.3	501.3	501.3
127.5°	546.1	546.3	546.6	546.5	546.0	545.5	544.9	544.4	544.9	545.5	546.0
130°	577.1	577.1	577.1	576.8	576.3	575.8	575.3	574.7	575.3	575.8	576.3
132.5°	607.1	607.2	607.3	607.2	606.8	606.5	606.1	605.7	606.1	606.5	606.8
135°	651.4	651.4	651.4	650.9	649.7	648.7	647.6	646.6	647.6	648.7	649.7
137.5°	694.1	693.8	693.5	693.1	692.6	692.1	691.7	691.2	691.7	692.1	692.6
140°	722.4	722.4	722.4	722.3	721.9	721.5	721.1	720.8	721.1	721.5	721.9
142.5°	749.2	749.3	749.5	749.4	749.0	748.7	748.3	748.0	748.3	748.7	749.0
145°	789.1	789.0	788.8	788.4	787.7	787.0	786.3	785.6	786.3	787.0	787.7
147.5°	826.3	826.4	826.6	826.2	825.4	824.5	823.6	822.8	823.6	824.5	825.4
150°	848.7	848.7	848.7	848.4	847.7	847.0	846.3	845.6	846.3	847.0	847.7
152.5°	869.3	869.1	869.0	868.7	868.3	867.9	867.5	867.1	867.5	867.9	868.3
155°	899.6	899.8	899.9	900.0	900.0	900.0	900.0	900.0	900.0	900.0	900.0
157.5°	926.3	926.3	926.3	926.6	926.9	927.2	927.5	927.9	927.5	927.2	926.9
160°	943.0	943.2	943.3	943.5	943.7	943.9	944.0	944.2	944.0	943.9	943.7
162.5°	956.9	957.0	957.3	957.6	958.1	958.5	959.0	959.4	959.0	958.5	958.1
165°	976.5	976.8	977.2	977.7	978.2	978.8	979.3	979.8	979.3	978.8	978.2
167.5°	992.2	992.1	992.1	992.5	993.2	993.9	994.6	995.4	994.6	993.9	993.2
170°	1000.8	1000.6	1000.4	1000.8	1001.6	1002.5	1003.4	1004.2	1003.4	1002.5	1001.6
172.5°	1007.3	1007.3	1007.2	1007.6	1008.4	1009.1	1009.9	1010.6	1009.9	1009.1	1008.4
175°	1014.8	1015.0	1015.2	1015.7	1016.6	1017.4	1018.3	1019.3	1018.3	1017.4	1016.6
177.5°	1019.0	1019.0	1019.0	1019.3	1020.0	1020.7	1021.4	1022.1	1021.4	1020.7	1020.0
180°	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8



TEST NUMBER: P332509-840

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	565.8	564.1	561.7	558.3	555.3	552.3	551.5	550.4	552.7	550.8	550.2
5°	547.3	542.3	535.8	528.5	524.1	518.0	516.7	514.3	511.9	511.7	509.3
7.5°	527.7	520.3	511.8	504.3	497.4	490.5	486.0	485.1	481.6	479.5	477.2
10°	515.0	505.9	496.1	489.0	480.9	473.7	468.7	465.9	463.4	460.8	458.4
12.5°	500.2	490.5	482.4	474.6	465.0	459.6	451.3	446.4	445.9	445.9	439.7
15°	482.8	473.2	460.8	449.8	444.5	434.0	429.5	423.7	420.2	416.6	413.7
17.5°	462.9	451.0	441.3	428.7	418.7	410.3	404.3	400.9	395.5	390.4	386.8
20°	450.5	437.9	427.6	414.1	403.2	392.9	387.9	383.1	379.1	374.8	370.7
22.5°	437.9	424.6	412.1	399.1	388.9	378.0	373.1	366.7	362.8	360.4	356.4
25°	418.0	403.6	389.3	376.9	366.4	356.8	350.4	345.4	341.0	339.1	336.5
27.5°	396.4	382.1	368.3	354.2	342.2	335.3	330.1	326.4	323.9	321.3	320.1
30°	382.6	367.8	353.0	339.8	328.9	321.9	317.2	314.6	312.7	311.4	310.2
32.5°	368.7	354.1	338.5	326.5	316.6	310.4	306.8	304.2	303.3	302.9	302.4
35°	346.3	331.5	317.2	306.4	297.1	294.7	291.5	290.1	289.6	291.3	292.1
37.5°	324.7	310.9	297.7	287.3	281.1	277.7	276.6	276.7	278.4	279.8	281.6
40°	310.7	297.3	284.9	275.8	270.0	267.9	267.4	268.6	270.5	272.3	274.2
42.5°	297.1	284.0	272.7	264.2	260.1	258.1	258.4	259.6	262.4	264.4	267.2
45°	276.1	265.1	254.1	247.1	243.8	244.3	244.3	246.4	249.0	252.2	255.3
47.5°	256.2	245.1	236.1	230.2	228.5	228.1	229.4	232.3	236.0	239.8	244.2
50°	242.9	232.3	224.4	219.1	217.2	217.9	219.8	222.5	227.0	231.9	236.4
52.5°	229.2	219.6	212.4	207.5	206.1	207.4	209.3	213.5	217.5	222.7	228.1
55°	208.1	200.1	194.3	190.8	190.3	191.0	193.1	197.6	203.4	209.8	215.1
57.5°	187.2	180.4	175.1	172.7	172.9	173.6	177.1	182.5	188.6	195.5	202.3
60°	173.0	166.8	162.5	160.6	160.9	162.3	166.6	171.6	179.3	185.9	193.1
62.5°	159.7	154.2	150.1	148.3	148.0	151.2	155.3	160.5	168.1	175.6	183.4
65°	138.1	133.8	130.5	129.6	130.3	132.7	137.9	144.8	151.3	159.2	167.3
67.5°	117.1	113.6	111.3	111.7	112.6	116.1	120.5	126.4	133.8	142.0	150.0
70°	103.7	100.4	98.5	98.7	100.2	104.4	108.3	114.2	122.1	130.5	137.1
72.5°	90.0	87.8	86.0	87.1	88.5	91.4	96.2	102.2	109.2	116.9	124.0
75°	69.1	69.1	68.2	68.9	71.0	73.8	77.5	83.6	90.6	96.8	102.5
77.5°	51.2	50.7	51.3	52.2	53.4	56.9	61.0	65.4	70.6	76.9	81.6
80°	39.2	39.5	40.6	42.1	42.5	45.1	49.5	53.5	57.6	62.8	67.4
82.5°	29.5	29.7	30.3	32.1	32.6	35.4	38.2	42.2	45.9	49.5	53.2
85°	16.1	16.1	17.2	18.0	19.1	21.0	22.7	25.1	28.5	30.8	34.4
87.5°	8.2	8.5	9.5	10.2	11.0	12.2	12.8	15.1	16.2	17.3	19.2
90°	10.1	11.7	13.1	14.5	16.0	17.4	18.4	19.5	20.5	21.6	22.3
92.5°	25.8	27.4	28.3	29.3	30.3	31.3	31.9	32.5	33.1	33.8	34.2
95°	53.7	55.1	56.4	57.6	58.8	60.0	60.5	61.1	61.6	62.1	62.4
97.5°	87.8	89.2	90.6	92.0	93.4	94.9	95.5	96.1	96.7	97.5	97.8
100°	113.3	114.5	116.0	117.6	119.2	120.8	121.2	121.5	121.9	122.2	122.4
102.5°	140.7	141.6	143.0	144.4	145.9	147.3	147.8	148.3	148.8	149.3	149.6
105°	184.7	185.1	185.8	186.5	187.2	187.9	188.4	188.9	189.5	190.0	190.6
107.5°	231.4	231.6	231.7	231.8	231.9	232.0	232.5	233.0	233.4	233.9	234.2
110°	263.5	263.6	263.5	263.3	263.1	262.9	262.6	262.2	261.9	261.5	261.6



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	295.3	295.1	294.8	294.5	294.2	293.9	293.8	293.7	293.7	293.6	293.6
115°	344.3	344.1	343.7	343.4	343.0	342.6	342.4	342.2	342.1	341.9	341.7
117.5°	391.2	391.1	390.9	390.6	390.4	390.2	389.6	389.0	388.4	387.8	387.3
120°	424.4	424.4	423.9	423.4	422.9	422.4	421.5	420.6	419.7	418.9	418.6
122.5°	454.9	454.9	454.7	454.4	454.2	453.9	453.3	452.7	452.2	451.6	451.0
125°	501.3	501.2	501.1	500.9	500.7	500.6	500.2	499.9	499.5	499.2	498.8
127.5°	546.5	546.6	546.3	546.1	545.8	545.5	545.2	544.8	544.5	544.1	543.8
130°	576.8	577.1	577.1	577.1	577.1	577.1	576.7	576.4	576.0	575.7	575.2
132.5°	607.2	607.3	607.2	607.1	606.9	606.8	606.4	606.1	605.7	605.4	605.1
135°	650.9	651.4	651.4	651.4	651.4	651.4	651.0	650.7	650.3	649.9	649.4
137.5°	693.1	693.5	693.8	694.1	694.3	694.6	694.2	693.7	693.3	692.8	692.6
140°	722.3	722.4	722.4	722.4	722.4	722.4	722.3	722.1	721.9	721.6	721.5
142.5°	749.4	749.5	749.3	749.2	749.0	748.9	748.9	748.8	748.8	748.8	748.7
145°	788.4	788.8	789.0	789.1	789.3	789.5	789.3	789.1	789.0	788.8	788.4
147.5°	826.2	826.6	826.4	826.3	826.1	826.0	825.9	825.7	825.6	825.4	825.3
150°	848.4	848.7	848.7	848.7	848.7	848.7	848.7	848.7	848.7	848.7	848.6
152.5°	868.7	869.0	869.1	869.3	869.4	869.6	870.0	870.4	870.8	871.2	871.2
155°	900.0	899.9	899.8	899.6	899.4	899.3	899.9	900.6	901.3	902.0	902.0
157.5°	926.6	926.3	926.3	926.3	926.2	926.2	926.8	927.3	927.9	928.4	928.3
160°	943.5	943.3	943.2	943.0	942.8	942.7	943.2	943.7	944.2	944.7	944.6
162.5°	957.6	957.3	957.0	956.9	956.7	956.5	957.6	958.5	959.4	960.4	960.4
165°	977.7	977.2	976.8	976.5	976.1	975.8	976.8	978.0	979.0	980.1	980.2
167.5°	992.5	992.1	992.1	992.2	992.2	992.2	993.3	994.3	995.4	996.4	996.4
170°	1000.8	1000.4	1000.6	1000.8	1000.9	1001.1	1002.1	1003.2	1004.2	1005.3	1005.2
172.5°	1007.6	1007.2	1007.3	1007.3	1007.3	1007.4	1008.6	1009.8	1011.0	1012.2	1012.2
175°	1015.7	1015.2	1015.0	1014.8	1014.7	1014.5	1015.7	1016.9	1018.1	1019.5	1019.5
177.5°	1019.3	1019.0	1019.0	1019.0	1019.0	1019.0	1019.9	1020.9	1021.9	1022.9	1022.8
180°	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	549.8	549.5	548.1	547.9	548.1	549.5	549.8	550.2	550.8	552.7	550.4
5°	507.9	506.6	505.9	508.6	505.9	506.6	507.9	509.3	511.7	511.9	514.3
7.5°	476.3	475.3	473.2	472.5	473.2	475.3	476.3	477.2	479.5	481.6	485.1
10°	456.1	455.0	453.1	452.6	453.1	455.0	456.1	458.4	460.8	463.4	465.9
12.5°	436.5	434.6	434.2	434.7	434.2	434.6	436.5	439.7	445.9	445.9	446.4
15°	410.6	409.6	407.0	407.8	407.0	409.6	410.6	413.7	416.6	420.2	423.7
17.5°	385.1	384.0	380.7	383.5	380.7	384.0	385.1	386.8	390.4	395.5	400.9
20°	369.0	367.1	365.5	365.2	365.5	367.1	369.0	370.7	374.8	379.1	383.1
22.5°	353.8	352.0	351.8	350.3	351.8	352.0	353.8	356.4	360.4	362.8	366.7
25°	334.6	333.0	332.4	331.2	332.4	333.0	334.6	336.5	339.1	341.0	345.4
27.5°	319.9	319.1	318.2	318.6	318.2	319.1	319.9	320.1	321.3	323.9	326.4
30°	310.9	310.7	310.2	310.2	310.2	310.7	310.9	310.2	311.4	312.7	314.6
32.5°	303.5	303.5	303.8	303.8	303.8	303.5	303.5	302.4	302.9	303.3	304.2
35°	293.1	293.8	294.2	293.5	294.2	293.8	293.1	292.1	291.3	289.6	290.1
37.5°	283.6	284.3	285.0	285.8	285.0	284.3	283.6	281.6	279.8	278.4	276.7
40°	276.3	277.9	278.4	279.6	278.4	277.9	276.3	274.2	272.3	270.5	268.6
42.5°	269.4	271.2	272.5	272.8	272.5	271.2	269.4	267.2	264.4	262.4	259.6
45°	258.8	260.7	262.5	262.5	262.5	260.7	258.8	255.3	252.2	249.0	246.4
47.5°	247.9	250.6	252.4	252.8	252.4	250.6	247.9	244.2	239.8	236.0	232.3
50°	240.4	243.8	245.5	246.6	245.5	243.8	240.4	236.4	231.9	227.0	222.5
52.5°	233.2	236.5	238.7	239.3	238.7	236.5	233.2	228.1	222.7	217.5	213.5
55°	220.6	225.4	228.0	228.9	228.0	225.4	220.6	215.1	209.8	203.4	197.6
57.5°	208.7	213.2	216.2	216.9	216.2	213.2	208.7	202.3	195.5	188.6	182.5
60°	199.5	204.4	208.1	208.8	208.1	204.4	199.5	193.1	185.9	179.3	171.6
62.5°	190.2	195.2	198.6	200.5	198.6	195.2	190.2	183.4	175.6	168.1	160.5
65°	174.0	179.0	182.4	183.1	182.4	179.0	174.0	167.3	159.2	151.3	144.8
67.5°	156.3	161.4	163.5	164.9	163.5	161.4	156.3	150.0	142.0	133.8	126.4
70°	143.9	147.9	150.4	151.5	150.4	147.9	143.9	137.1	130.5	122.1	114.2
72.5°	129.8	134.0	136.7	137.0	136.7	134.0	129.8	124.0	116.9	109.2	102.2
75°	108.1	111.9	113.3	113.3	113.3	111.9	108.1	102.5	96.8	90.6	83.6
77.5°	85.5	87.5	89.3	89.7	89.3	87.5	85.5	81.6	76.9	70.6	65.4
80°	71.0	72.2	73.6	73.6	73.6	72.2	71.0	67.4	62.8	57.6	53.5
82.5°	56.0	57.1	58.5	58.3	58.5	57.1	56.0	53.2	49.5	45.9	42.2
85°	33.9	36.1	35.9	35.3	35.9	36.1	33.9	34.4	30.8	28.5	25.1
87.5°	19.8	20.1	20.7	21.2	20.7	20.1	19.8	19.2	17.3	16.2	15.1
90°	22.6	23.0	23.3	23.7	23.3	23.0	22.6	22.3	21.6	20.5	19.5
92.5°	34.4	34.6	34.8	35.0	34.8	34.6	34.4	34.2	33.8	33.1	32.5
95°	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.1	61.6	61.1
97.5°	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.5	96.7	96.1
100°	122.4	122.4	122.4	122.4	122.4	122.4	122.4	122.4	122.2	121.9	121.5
102.5°	149.8	149.9	150.1	150.2	150.1	149.9	149.8	149.6	149.3	148.8	148.3
105°	191.1	191.6	192.1	192.7	192.1	191.6	191.1	190.6	190.0	189.5	188.9
107.5°	234.1	234.1	234.1	234.0	234.1	234.1	234.1	234.2	233.9	233.4	233.0
110°	262.2	262.7	263.2	263.7	263.2	262.7	262.2	261.6	261.5	261.9	262.2



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	293.7	293.8	293.9	294.0	293.9	293.8	293.7	293.6	293.6	293.7	293.7
115°	341.6	341.4	341.2	341.0	341.2	341.4	341.6	341.7	341.9	342.1	342.2
117.5°	387.0	386.6	386.3	385.9	386.3	386.6	387.0	387.3	387.8	388.4	389.0
120°	419.0	419.3	419.7	420.0	419.7	419.3	419.0	418.6	418.9	419.7	420.6
122.5°	450.3	449.7	449.1	448.5	449.1	449.7	450.3	451.0	451.6	452.2	452.7
125°	498.5	498.1	497.8	497.4	497.8	498.1	498.5	498.8	499.2	499.5	499.9
127.5°	543.5	543.3	543.0	542.7	543.0	543.3	543.5	543.8	544.1	544.5	544.8
130°	574.5	573.8	573.1	572.4	573.1	573.8	574.5	575.2	575.7	576.0	576.4
132.5°	604.8	604.5	604.2	604.0	604.2	604.5	604.8	605.1	605.4	605.7	606.1
135°	648.9	648.4	647.9	647.4	647.9	648.4	648.9	649.4	649.9	650.3	650.7
137.5°	692.7	692.8	692.9	693.1	692.9	692.8	692.7	692.6	692.8	693.3	693.7
140°	721.3	721.1	720.9	720.8	720.9	721.1	721.3	721.5	721.6	721.9	722.1
142.5°	748.7	748.7	748.6	748.6	748.6	748.7	748.7	748.7	748.8	748.8	748.8
145°	787.9	787.4	786.9	786.4	786.9	787.4	787.9	788.4	788.8	789.0	789.1
147.5°	825.1	824.9	824.8	824.6	824.8	824.9	825.1	825.3	825.4	825.6	825.7
150°	848.5	848.3	848.1	847.9	848.1	848.3	848.5	848.6	848.7	848.7	848.7
152.5°	870.8	870.3	869.9	869.4	869.9	870.3	870.8	871.2	871.2	870.8	870.4
155°	901.3	900.6	899.9	899.3	899.9	900.6	901.3	902.0	902.0	901.3	900.6
157.5°	927.8	927.2	926.6	925.9	926.6	927.2	927.8	928.3	928.4	927.9	927.3
160°	943.7	942.8	942.0	941.1	942.0	942.8	943.7	944.6	944.7	944.2	943.7
162.5°	959.5	958.7	957.8	956.8	957.8	958.7	959.5	960.4	960.4	959.4	958.5
165°	979.5	978.8	978.1	977.4	978.1	978.8	979.5	980.2	980.1	979.0	978.0
167.5°	995.3	994.2	993.2	992.1	993.2	994.2	995.3	996.4	996.4	995.4	994.3
170°	1004.0	1002.8	1001.5	1000.3	1001.5	1002.8	1004.0	1005.2	1005.3	1004.2	1003.2
172.5°	1011.0	1009.7	1008.5	1007.2	1008.5	1009.7	1011.0	1012.2	1012.2	1011.0	1009.8
175°	1018.1	1016.9	1015.7	1014.5	1015.7	1016.9	1018.1	1019.5	1019.5	1018.1	1016.9
177.5°	1021.7	1020.6	1019.5	1018.2	1019.5	1020.6	1021.7	1022.8	1022.9	1021.9	1020.9
180°	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	551.5	552.3	555.3	558.3	561.7	564.1	565.8	567.7	571.8	575.0	578.1
5°	516.7	518.0	524.1	528.5	535.8	542.3	547.3	552.8	559.3	568.2	576.2
7.5°	486.0	490.5	497.4	504.3	511.8	520.3	527.7	535.9	547.0	559.3	571.8
10°	468.7	473.7	480.9	489.0	496.1	505.9	515.0	524.8	537.6	552.3	567.1
12.5°	451.3	459.6	465.0	474.6	482.4	490.5	500.2	513.0	527.8	543.3	561.2
15°	429.5	434.0	444.5	449.8	460.8	473.2	482.8	495.6	510.0	530.6	550.7
17.5°	404.3	410.3	418.7	428.7	441.3	451.0	462.9	476.3	494.3	514.7	539.9
20°	387.9	392.9	403.2	414.1	427.6	437.9	450.5	463.4	482.1	503.8	530.1
22.5°	373.1	378.0	388.9	399.1	412.1	424.6	437.9	452.9	470.8	493.7	520.6
25°	350.4	356.8	366.4	376.9	389.3	403.6	418.0	431.4	450.5	474.6	503.3
27.5°	330.1	335.3	342.2	354.2	368.3	382.1	396.4	413.2	431.6	457.2	486.9
30°	317.2	321.9	328.9	339.8	353.0	367.8	382.6	398.9	418.0	443.3	473.7
32.5°	306.8	310.4	316.6	326.5	338.5	354.1	368.7	385.5	405.6	430.5	460.1
35°	291.5	294.7	297.1	306.4	317.2	331.5	346.3	364.3	383.6	407.3	436.9
37.5°	276.6	277.7	281.1	287.3	297.7	310.9	324.7	342.3	362.1	386.2	412.9
40°	267.4	267.9	270.0	275.8	284.9	297.3	310.7	328.1	347.0	369.7	396.3
42.5°	258.4	258.1	260.1	264.2	272.7	284.0	297.1	313.1	331.9	352.9	377.9
45°	244.3	244.3	243.8	247.1	254.1	265.1	276.1	291.3	307.1	327.7	348.7
47.5°	229.4	228.1	228.5	230.2	236.1	245.1	256.2	268.7	282.7	300.0	318.5
50°	219.8	217.9	217.2	219.1	224.4	232.3	242.9	253.8	267.0	282.3	298.0
52.5°	209.3	207.4	206.1	207.5	212.4	219.6	229.2	238.9	250.7	263.2	276.8
55°	193.1	191.0	190.3	190.8	194.3	200.1	208.1	217.0	225.9	236.1	245.7
57.5°	177.1	173.6	172.9	172.7	175.1	180.4	187.2	194.8	201.3	207.5	217.7
60°	166.6	162.3	160.9	160.6	162.5	166.8	173.0	180.7	185.2	189.6	198.3
62.5°	155.3	151.2	148.0	148.3	150.1	154.2	159.7	165.2	168.2	172.9	178.8
65°	137.9	132.7	130.3	129.6	130.5	133.8	138.1	141.7	145.1	147.0	152.7
67.5°	120.5	116.1	112.6	111.7	111.3	113.6	117.1	119.3	121.7	123.3	126.7
70°	108.3	104.4	100.2	98.7	98.5	100.4	103.7	104.0	107.3	108.1	111.6
72.5°	96.2	91.4	88.5	87.1	86.0	87.8	90.0	90.6	92.4	93.7	95.5
75°	77.5	73.8	71.0	68.9	68.2	69.1	69.1	70.3	71.5	72.2	74.3
77.5°	61.0	56.9	53.4	52.2	51.3	50.7	51.2	52.0	51.4	52.6	53.1
80°	49.5	45.1	42.5	42.1	40.6	39.5	39.2	39.9	39.0	39.5	40.9
82.5°	38.2	35.4	32.6	32.1	30.3	29.7	29.5	29.0	29.0	28.9	29.2
85°	22.7	21.0	19.1	18.0	17.2	16.1	16.1	15.6	15.0	14.5	14.8
87.5°	12.8	12.2	11.0	10.2	9.5	8.5	8.2	7.2	6.6	6.1	5.5
90°	18.4	17.4	16.0	14.5	13.1	11.7	10.1	8.2	6.3	4.3	2.3
92.5°	31.9	31.3	30.3	29.3	28.3	27.4	25.8	23.5	21.3	19.1	16.9
95°	60.5	60.0	58.8	57.6	56.4	55.1	53.7	52.1	50.5	49.0	47.4
97.5°	95.5	94.9	93.4	92.0	90.6	89.2	87.8	86.5	85.2	84.0	82.7
100°	121.2	120.8	119.2	117.6	116.0	114.5	113.3	112.6	111.9	111.2	110.6
102.5°	147.8	147.3	145.9	144.4	143.0	141.6	140.7	140.5	140.2	139.9	139.6
105°	188.4	187.9	187.2	186.5	185.8	185.1	184.7	184.5	184.3	184.1	184.0
107.5°	232.5	232.0	231.9	231.8	231.7	231.6	231.4	231.2	231.0	230.8	230.6
110°	262.6	262.9	263.1	263.3	263.5	263.6	263.5	263.2	262.8	262.5	262.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	293.8	293.9	294.2	294.5	294.8	295.1	295.3	295.2	295.1	295.0	295.0
115°	342.4	342.6	343.0	343.4	343.7	344.1	344.3	344.3	344.3	344.3	344.3
117.5°	389.6	390.2	390.4	390.6	390.9	391.1	391.2	391.0	390.9	390.8	390.6
120°	421.5	422.4	422.9	423.4	423.9	424.4	424.4	423.7	423.0	422.3	421.6
122.5°	453.3	453.9	454.2	454.4	454.7	454.9	454.9	454.6	454.3	454.0	453.8
125°	500.2	500.6	500.7	500.9	501.1	501.2	501.3	501.3	501.3	501.3	501.3
127.5°	545.2	545.5	545.8	546.1	546.3	546.6	546.5	546.0	545.5	544.9	544.4
130°	576.7	577.1	577.1	577.1	577.1	577.1	576.8	576.3	575.8	575.3	574.7
132.5°	606.4	606.8	606.9	607.1	607.2	607.3	607.2	606.8	606.5	606.1	605.7
135°	651.0	651.4	651.4	651.4	651.4	651.4	650.9	649.7	648.7	647.6	646.6
137.5°	694.2	694.6	694.3	694.1	693.8	693.5	693.1	692.6	692.1	691.7	691.2
140°	722.3	722.4	722.4	722.4	722.4	722.4	722.3	721.9	721.5	721.1	720.8
142.5°	748.9	748.9	749.0	749.2	749.3	749.5	749.4	749.0	748.7	748.3	748.0
145°	789.3	789.5	789.3	789.1	789.0	788.8	788.4	787.7	787.0	786.3	785.6
147.5°	825.9	826.0	826.1	826.3	826.4	826.6	826.2	825.4	824.5	823.6	822.8
150°	848.7	848.7	848.7	848.7	848.7	848.7	848.4	847.7	847.0	846.3	845.6
152.5°	870.0	869.6	869.4	869.3	869.1	869.0	868.7	868.3	867.9	867.5	867.1
155°	899.9	899.3	899.4	899.6	899.8	899.9	900.0	900.0	900.0	900.0	900.0
157.5°	926.8	926.2	926.2	926.3	926.3	926.3	926.6	926.9	927.2	927.5	927.9
160°	943.2	942.7	942.8	943.0	943.2	943.3	943.5	943.7	943.9	944.0	944.2
162.5°	957.6	956.5	956.7	956.9	957.0	957.3	957.6	958.1	958.5	959.0	959.4
165°	976.8	975.8	976.1	976.5	976.8	977.2	977.7	978.2	978.8	979.3	979.8
167.5°	993.3	992.2	992.2	992.2	992.1	992.1	992.5	993.2	993.9	994.6	995.4
170°	1002.1	1001.1	1000.9	1000.8	1000.6	1000.4	1000.8	1001.6	1002.5	1003.4	1004.2
172.5°	1008.6	1007.4	1007.3	1007.3	1007.3	1007.2	1007.6	1008.4	1009.1	1009.9	1010.6
175°	1015.7	1014.5	1014.7	1014.8	1015.0	1015.2	1015.7	1016.6	1017.4	1018.3	1019.3
177.5°	1019.9	1019.0	1019.0	1019.0	1019.0	1019.0	1019.3	1020.0	1020.7	1021.4	1022.1
180°	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	580.8	582.7	585.2	589.4	590.9	592.8	595.5	595.3	596.0	599.0	605.0
5°	582.9	590.4	597.5	606.1	615.2	621.2	629.2	634.3	639.3	645.8	656.8
7.5°	583.8	595.5	608.6	623.8	637.2	652.7	664.8	676.2	686.5	700.0	713.2
10°	582.5	598.2	615.2	634.3	654.6	671.9	687.4	705.1	720.1	736.6	751.4
12.5°	580.0	599.0	621.7	643.1	666.8	692.3	711.7	729.5	749.5	768.5	791.4
15°	574.3	600.4	626.9	655.1	686.9	716.3	744.3	767.4	788.9	817.4	847.3
17.5°	567.1	595.2	628.7	662.9	696.1	729.6	764.3	799.1	826.3	861.6	884.9
20°	560.5	593.0	627.4	668.0	701.3	743.1	777.5	811.1	848.5	883.6	911.6
22.5°	551.1	586.6	623.2	663.6	707.3	749.2	788.9	825.5	862.8	901.0	934.8
25°	539.2	571.5	614.7	660.6	704.1	749.5	795.2	841.0	881.2	921.6	953.1
27.5°	519.0	559.7	600.0	647.3	695.6	747.0	795.9	843.8	886.0	919.2	938.7
30°	508.6	544.0	587.7	635.3	687.6	742.9	793.8	840.8	880.0	906.6	914.4
32.5°	493.3	529.8	572.6	621.9	677.3	734.1	787.0	831.4	864.1	878.1	868.6
35°	470.6	503.6	546.8	597.2	654.9	715.3	767.7	805.2	821.9	808.8	776.1
37.5°	443.3	476.1	519.5	569.1	628.6	690.1	737.4	764.5	758.9	726.2	677.4
40°	424.2	454.8	496.1	549.7	607.7	669.4	711.0	725.6	710.3	663.5	611.6
42.5°	403.0	432.8	474.3	526.0	587.5	644.4	680.6	681.9	656.2	600.2	548.2
45°	370.7	399.1	438.3	492.1	549.0	602.5	626.4	614.7	567.3	513.4	461.0
47.5°	338.8	363.5	402.1	453.1	507.2	552.2	564.1	543.0	492.6	440.1	391.6
50°	315.5	340.3	376.7	425.5	477.6	516.4	522.2	494.2	444.7	391.9	354.0
52.5°	293.1	317.8	352.7	397.9	445.6	480.7	480.9	448.6	399.3	352.2	316.9
55°	260.2	282.5	314.1	354.5	397.0	424.4	417.8	384.4	341.5	300.6	269.8
57.5°	228.6	248.0	277.0	310.7	348.2	370.9	359.8	327.6	289.4	254.7	231.4
60°	208.1	226.6	251.5	283.3	314.8	332.4	321.9	292.8	257.6	229.6	209.3
62.5°	188.2	203.8	227.7	255.3	284.6	297.6	288.3	259.5	229.1	203.9	187.3
65°	160.2	172.8	191.9	215.6	236.8	248.1	240.2	213.4	190.3	172.1	159.0
67.5°	133.8	143.7	158.2	177.2	195.3	201.4	194.2	175.5	155.9	141.4	132.1
70°	115.6	125.0	137.1	151.8	167.5	174.0	166.8	152.0	136.0	122.6	113.5
72.5°	99.8	107.0	117.3	129.8	142.1	148.6	143.7	129.5	115.9	105.9	98.3
75°	76.0	82.2	89.4	98.3	107.8	112.1	107.8	98.0	88.7	81.3	75.7
77.5°	55.2	58.6	64.1	70.8	76.7	80.0	76.2	69.7	63.9	58.9	56.1
80°	42.1	44.4	48.3	53.5	57.6	60.7	58.3	52.8	48.3	44.9	43.7
82.5°	30.6	32.2	34.7	38.6	41.3	42.9	41.9	37.9	36.1	33.1	31.9
85°	15.0	16.1	17.7	18.9	21.3	21.5	21.7	20.1	18.4	17.7	16.8
87.5°	6.1	6.6	7.6	8.5	9.6	10.1	10.2	10.5	10.0	10.0	9.4
90°	4.3	6.3	8.2	10.1	11.7	13.1	14.5	16.0	17.4	18.4	19.5
92.5°	19.1	21.3	23.5	25.8	27.4	28.3	29.3	30.3	31.3	31.9	32.5
95°	49.0	50.5	52.1	53.7	55.1	56.4	57.6	58.8	60.0	60.5	61.1
97.5°	84.0	85.2	86.5	87.8	89.2	90.6	92.0	93.4	94.9	95.5	96.1
100°	111.2	111.9	112.6	113.3	114.5	116.0	117.6	119.2	120.8	121.2	121.5
102.5°	139.9	140.2	140.5	140.7	141.6	143.0	144.4	145.9	147.3	147.8	148.3
105°	184.1	184.3	184.5	184.7	185.1	185.8	186.5	187.2	187.9	188.4	188.9
107.5°	230.8	231.0	231.2	231.4	231.6	231.7	231.8	231.9	232.0	232.5	233.0
110°	262.5	262.8	263.2	263.5	263.6	263.5	263.3	263.1	262.9	262.6	262.2



TEST NUMBER: P332509-840

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	295.0	295.1	295.2	295.3	295.1	294.8	294.5	294.2	293.9	293.8	293.7
115°	344.3	344.3	344.3	344.3	344.1	343.7	343.4	343.0	342.6	342.4	342.2
117.5°	390.8	390.9	391.0	391.2	391.1	390.9	390.6	390.4	390.2	389.6	389.0
120°	422.3	423.0	423.7	424.4	424.4	423.9	423.4	422.9	422.4	421.5	420.6
122.5°	454.0	454.3	454.6	454.9	454.9	454.7	454.4	454.2	453.9	453.3	452.7
125°	501.3	501.3	501.3	501.3	501.2	501.1	500.9	500.7	500.6	500.2	499.9
127.5°	544.9	545.5	546.0	546.5	546.6	546.3	546.1	545.8	545.5	545.2	544.8
130°	575.3	575.8	576.3	576.8	577.1	577.1	577.1	577.1	577.1	576.7	576.4
132.5°	606.1	606.5	606.8	607.2	607.3	607.2	607.1	606.9	606.8	606.4	606.1
135°	647.6	648.7	649.7	650.9	651.4	651.4	651.4	651.4	651.4	651.0	650.7
137.5°	691.7	692.1	692.6	693.1	693.5	693.8	694.1	694.3	694.6	694.2	693.7
140°	721.1	721.5	721.9	722.3	722.4	722.4	722.4	722.4	722.4	722.3	722.1
142.5°	748.3	748.7	749.0	749.4	749.5	749.3	749.2	749.0	748.9	748.9	748.8
145°	786.3	787.0	787.7	788.4	788.8	789.0	789.1	789.3	789.5	789.3	789.1
147.5°	823.6	824.5	825.4	826.2	826.6	826.4	826.3	826.1	826.0	825.9	825.7
150°	846.3	847.0	847.7	848.4	848.7	848.7	848.7	848.7	848.7	848.7	848.7
152.5°	867.5	867.9	868.3	868.7	869.0	869.1	869.3	869.4	869.6	870.0	870.4
155°	900.0	900.0	900.0	900.0	899.9	899.8	899.6	899.4	899.3	899.9	900.6
157.5°	927.5	927.2	926.9	926.6	926.3	926.3	926.3	926.2	926.2	926.8	927.3
160°	944.0	943.9	943.7	943.5	943.3	943.2	943.0	942.8	942.7	943.2	943.7
162.5°	959.0	958.5	958.1	957.6	957.3	957.0	956.9	956.7	956.5	957.6	958.5
165°	979.3	978.8	978.2	977.7	977.2	976.8	976.5	976.1	975.8	976.8	978.0
167.5°	994.6	993.9	993.2	992.5	992.1	992.1	992.2	992.2	992.2	993.3	994.3
170°	1003.4	1002.5	1001.6	1000.8	1000.4	1000.6	1000.8	1000.9	1001.1	1002.1	1003.2
172.5°	1009.9	1009.1	1008.4	1007.6	1007.2	1007.3	1007.3	1007.3	1007.4	1008.6	1009.8
175°	1018.3	1017.4	1016.6	1015.7	1015.2	1015.0	1014.8	1014.7	1014.5	1015.7	1016.9
177.5°	1021.4	1020.7	1020.0	1019.3	1019.0	1019.0	1019.0	1019.0	1019.0	1019.9	1020.9
180°	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	608.1	608.5	610.3	611.6	612.0	613.9	614.0
5°	661.6	665.6	673.5	674.2	675.4	681.7	676.8
7.5°	724.2	734.5	741.3	747.5	749.6	752.3	751.8
10°	764.4	779.6	787.3	799.5	799.9	803.0	801.1
12.5°	804.7	822.4	836.4	838.7	848.9	850.5	853.1
15°	861.8	880.7	900.1	907.1	921.1	924.4	929.7
17.5°	915.5	934.8	948.5	966.3	972.2	979.9	974.6
20°	945.0	966.0	983.3	997.3	1003.3	1007.6	1007.1
22.5°	962.8	984.0	997.9	1008.7	1014.2	1016.0	1015.9
25°	973.9	986.1	990.5	994.5	988.3	986.1	987.0
27.5°	942.9	939.8	928.6	913.8	898.6	886.5	879.8
30°	900.3	881.7	864.7	835.1	819.8	810.7	802.5
32.5°	839.9	810.3	777.7	750.5	733.2	719.7	717.7
35°	736.4	692.0	652.0	618.7	601.6	587.0	583.6
37.5°	626.0	579.9	543.9	514.6	496.1	485.8	476.3
40°	552.8	513.1	477.8	452.9	438.8	431.4	425.5
42.5°	496.4	460.2	425.0	406.1	393.3	388.8	385.3
45°	418.5	384.8	360.4	346.1	338.7	331.0	327.4
47.5°	356.1	328.7	312.7	300.4	292.5	287.9	285.7
50°	320.7	298.3	284.0	274.6	267.4	263.9	262.0
52.5°	289.4	270.9	258.9	251.5	246.6	244.0	243.2
55°	249.2	235.2	227.5	221.1	217.5	215.1	214.2
57.5°	216.7	205.8	199.7	194.3	192.9	191.0	190.3
60°	195.3	186.9	181.7	178.0	176.8	174.5	174.9
62.5°	176.3	169.5	165.0	163.0	161.4	159.4	160.1
65°	149.2	144.1	141.7	139.9	137.9	136.7	137.6
67.5°	125.1	121.7	118.5	117.3	116.4	116.2	115.2
70°	109.5	106.6	103.7	103.0	103.0	102.1	101.8
72.5°	94.3	92.3	90.4	89.8	89.1	89.5	88.5
75°	72.9	71.2	70.5	69.8	69.6	69.6	68.9
77.5°	53.8	52.6	51.5	51.5	50.6	50.3	50.2
80°	40.9	40.4	39.5	39.5	39.0	39.2	38.7
82.5°	30.7	30.1	29.9	29.5	28.8	28.9	28.4
85°	16.5	15.8	15.6	14.8	14.3	14.8	14.3
87.5°	9.8	9.9	9.8	9.5	9.4	9.5	9.0
90°	20.5	21.6	22.3	22.6	23.0	23.3	23.7
92.5°	33.1	33.8	34.2	34.4	34.6	34.8	35.0
95°	61.6	62.1	62.4	62.4	62.4	62.4	62.4
97.5°	96.7	97.5	97.8	97.8	97.8	97.8	97.8
100°	121.9	122.2	122.4	122.4	122.4	122.4	122.4
102.5°	148.8	149.3	149.6	149.8	149.9	150.1	150.2
105°	189.5	190.0	190.6	191.1	191.6	192.1	192.7
107.5°	233.4	233.9	234.2	234.1	234.1	234.1	234.0
110°	261.9	261.5	261.6	262.2	262.7	263.2	263.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	293.7	293.6	293.6	293.7	293.8	293.9	294.0
115°	342.1	341.9	341.7	341.6	341.4	341.2	341.0
117.5°	388.4	387.8	387.3	387.0	386.6	386.3	385.9
120°	419.7	418.9	418.6	419.0	419.3	419.7	420.0
122.5°	452.2	451.6	451.0	450.3	449.7	449.1	448.5
125°	499.5	499.2	498.8	498.5	498.1	497.8	497.4
127.5°	544.5	544.1	543.8	543.5	543.3	543.0	542.7
130°	576.0	575.7	575.2	574.5	573.8	573.1	572.4
132.5°	605.7	605.4	605.1	604.8	604.5	604.2	604.0
135°	650.3	649.9	649.4	648.9	648.4	647.9	647.4
137.5°	693.3	692.8	692.6	692.7	692.8	692.9	693.1
140°	721.9	721.6	721.5	721.3	721.1	720.9	720.8
142.5°	748.8	748.8	748.7	748.7	748.7	748.6	748.6
145°	789.0	788.8	788.4	787.9	787.4	786.9	786.4
147.5°	825.6	825.4	825.3	825.1	824.9	824.8	824.6
150°	848.7	848.7	848.6	848.5	848.3	848.1	847.9
152.5°	870.8	871.2	871.2	870.8	870.3	869.9	869.4
155°	901.3	902.0	902.0	901.3	900.6	899.9	899.3
157.5°	927.9	928.4	928.3	927.8	927.2	926.6	925.9
160°	944.2	944.7	944.6	943.7	942.8	942.0	941.1
162.5°	959.4	960.4	960.4	959.5	958.7	957.8	956.8
165°	979.0	980.1	980.2	979.5	978.8	978.1	977.4
167.5°	995.4	996.4	996.4	995.3	994.2	993.2	992.1
170°	1004.2	1005.3	1005.2	1004.0	1002.8	1001.5	1000.3
172.5°	1011.0	1012.2	1012.2	1011.0	1009.7	1008.5	1007.2
175°	1018.1	1019.5	1019.5	1018.1	1016.9	1015.7	1014.5
177.5°	1021.9	1022.9	1022.8	1021.7	1020.6	1019.5	1018.2
180°	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8

(END OF REPORT)