

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: P332877

Luminaire Tested: **SA4XXRDIP-C350D810U835-4F0-1E-UDD-A**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332877  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXRDIP-C350D810U835-4F0-1E-UDD-A  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 810 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

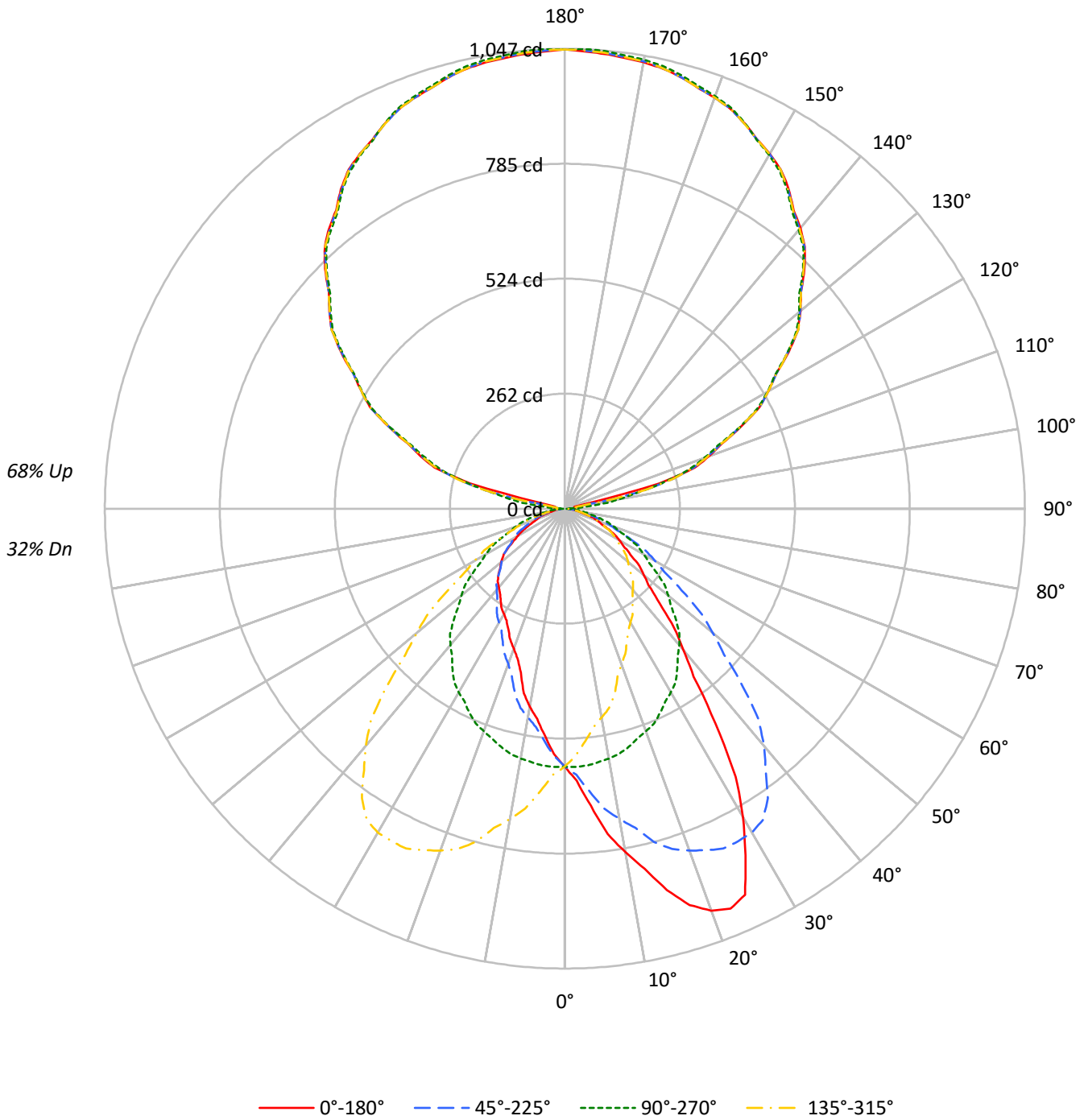
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4721.5 lumens  
Efficiency: N/A  
Efficacy: 151.3 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39  
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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	32				
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	34	34	27				
2	86	79	73	68	77	71	66	62	57	53	50	43	41	39	31	30	29	23				
3	78	69	62	57	70	63	57	52	50	46	43	39	36	34	28	26	25	20				
4	72	61	54	48	64	56	49	44	45	40	36	34	31	29	25	23	21	17				
5	66	55	47	41	59	50	43	38	40	35	31	31	28	25	23	21	19	15				
6	61	49	41	36	54	45	38	33	36	31	27	28	25	22	21	18	17	13				
7	56	44	37	31	50	40	34	29	33	28	24	25	22	19	19	17	15	12				
8	52	40	33	28	47	37	30	26	30	25	21	23	20	17	17	15	13	11				
9	48	37	29	24	43	33	27	23	27	22	19	21	18	16	16	14	12	10				
10	45	33	26	22	41	31	24	20	25	20	17	20	16	14	15	13	11	9				

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

	0°	90°	180°	270°
0°	4742	4742	4742	4742
5°	5501	4756	4204	4756
10°	6507	4736	3752	4736
15°	7516	4692	3224	4692
20°	8369	4631	2916	4631
25°	8639	4572	2707	4572
30°	7563	4501	2581	4501
35°	5887	4394	2505	4394
40°	4415	4272	2464	4272
45°	3486	4077	2442	4077
50°	2943	3852	2372	3852
55°	2564	3605	2245	3605
60°	2307	3347	1988	3347
65°	2034	3070	1710	3070
70°	1832	2783	1541	2783
75°	1535	2464	1313	2464
80°	1297	2101	1232	2101
85°	1093	1649	1093	1649



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.9	1.2
10°-20°	171.7	3.6
20°-30°	268.5	5.7
30°-40°	298.5	6.3
40°-50°	264.9	5.6
50°-60°	206.4	4.4
60°-70°	135.1	2.9
70°-80°	66.4	1.4
80°-90°	19.4	0.4
90°-100°	35.8	0.8
100°-110°	228.0	4.8
110°-120°	436.1	9.2
120°-130°	553.6	11.7
130°-140°	592.3	12.5
140°-150°	553.9	11.7
150°-160°	446.7	9.5
160°-170°	288.1	6.1
170°-180°	99.3	2.1
0°-30°	497.1	10.5
0°-40°	795.6	16.9
0°-60°	1266.9	26.8
0°-90°	1487.8	31.5
90°-120°	699.8	14.8
90°-150°	2399.6	50.8
90°-180°	3234.0	68.5
0°-180°	4721.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	587	587	587	587	587	
5°	679	587	519	587	679	69
15°	899	561	386	561	899	256
25°	970	513	304	513	970	430
35°	597	446	254	446	597	374
45°	305	357	214	357	305	242
55°	182	256	160	256	182	166
65°	106	161	90	161	106	107
75°	49	79	42	79	49	54
85°	12	18	12	18	12	14
90°	24	2	24	2	24	11
95°	23	43	23	43	23	18
105°	223	235	223	235	223	194
115°	443	439	443	439	443	438
125°	622	618	622	618	622	554
135°	772	766	772	766	772	594
145°	888	884	888	884	888	555
155°	968	969	968	969	968	446
165°	1017	1022	1017	1022	1017	287
175°	1039	1045	1039	1045	1039	99
180°	1045	1045	1045	1045	1045	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4
2.5°	619.6	621.3	619.6	619.4	617.5	616.9	616.2	613.7	609.2	606.5	607.1
5°	678.8	684.7	681.4	680.9	675.7	670.5	667.2	659.6	651.5	646.1	641.6
7.5°	747.2	750.6	748.5	745.2	736.8	732.0	724.3	714.4	699.9	688.9	678.8
10°	793.8	796.6	795.7	789.5	783.4	770.8	763.7	749.8	731.5	717.1	703.6
12.5°	839.6	842.6	834.3	834.6	822.9	813.0	801.8	784.2	763.2	744.6	727.7
15°	899.3	895.5	895.5	890.8	877.8	864.1	852.5	834.0	807.5	785.3	761.8
17.5°	946.1	947.4	945.5	934.3	924.1	909.9	888.6	867.1	842.5	812.6	788.7
20°	974.1	974.1	972.0	964.4	951.2	936.0	913.1	889.6	858.4	828.3	801.4
22.5°	985.5	986.2	983.7	977.5	965.6	950.8	931.2	907.4	875.2	841.4	808.0
25°	969.9	974.4	974.8	973.2	969.6	960.6	943.8	919.5	890.6	853.9	817.9
27.5°	890.4	896.1	901.1	909.3	920.2	925.8	926.6	914.2	889.0	853.7	817.5
30°	811.3	816.0	831.4	851.5	867.1	881.3	893.7	897.0	882.8	851.1	813.0
32.5°	723.4	729.9	745.3	766.9	792.9	817.0	844.6	858.7	858.3	839.3	804.1
35°	597.3	602.1	616.3	639.0	670.2	706.0	749.8	783.8	807.0	805.4	783.8
37.5°	481.8	487.1	501.4	520.3	550.6	594.8	637.2	684.2	727.0	751.1	743.9
40°	418.9	419.1	433.1	452.5	480.9	519.5	565.6	617.7	665.5	704.6	712.1
42.5°	369.3	369.3	378.6	399.5	419.9	456.2	500.3	552.0	608.0	653.1	673.1
45°	305.3	307.4	315.0	327.5	343.6	374.4	409.7	457.7	520.4	573.9	607.3
47.5°	258.5	261.7	266.5	276.7	289.5	310.0	339.2	382.4	433.4	492.2	539.7
50°	234.3	234.8	240.9	246.6	257.7	274.1	299.6	335.6	382.5	439.0	491.8
52.5°	213.5	213.4	217.1	224.3	233.3	246.0	266.7	299.4	341.0	391.7	446.2
55°	182.2	183.4	186.3	191.9	198.8	207.8	224.1	248.7	281.4	324.7	374.2
57.5°	158.5	159.1	161.3	163.7	170.0	176.6	188.8	205.9	233.4	268.9	315.0
60°	142.9	143.2	143.9	147.4	152.4	158.6	166.9	181.3	204.5	236.9	273.4
62.5°	127.8	128.2	129.3	131.9	135.8	140.0	148.7	160.3	179.5	207.2	240.0
65°	106.5	106.7	108.4	109.3	112.4	116.2	122.6	130.4	143.7	166.9	191.7
67.5°	89.0	89.0	89.1	90.4	92.5	95.0	98.8	105.1	115.1	129.3	151.2
70°	77.6	77.6	78.1	78.8	80.0	82.1	84.3	89.0	96.3	107.9	124.7
72.5°	67.0	67.2	67.7	67.8	68.4	70.2	71.8	74.8	80.2	89.0	102.6
75°	49.2	49.9	51.1	52.1	53.3	53.0	54.7	56.6	58.2	63.4	71.2
77.5°	36.6	36.3	36.4	37.2	37.3	37.6	38.8	40.2	41.5	43.9	46.7
80°	27.9	27.9	28.6	28.9	28.6	28.9	30.1	30.8	31.2	32.2	34.8
82.5°	21.1	21.5	21.3	21.5	21.6	21.9	22.9	23.0	23.5	23.9	24.9
85°	11.8	12.1	12.3	11.8	11.8	11.8	12.3	12.5	13.0	12.8	13.3
87.5°	8.9	8.6	8.7	8.6	8.8	8.4	8.4	8.6	8.0	8.0	7.7
90°	23.5	23.1	22.8	22.4	22.1	21.4	20.3	19.3	18.2	17.2	15.8
92.5°	21.6	21.5	21.4	21.4	21.3	20.7	19.7	18.7	17.6	16.6	15.2
95°	22.7	22.5	22.3	22.2	22.0	21.4	20.3	19.3	18.2	17.2	17.0
97.5°	21.9	21.7	21.5	21.4	21.2	21.1	21.0	20.9	20.7	20.6	40.0
100°	21.9	21.7	21.5	21.4	21.2	22.6	25.5	28.5	31.4	34.4	58.4
102.5°	22.5	22.5	22.4	22.4	22.4	38.3	70.2	102.0	133.9	165.8	168.9
105°	222.8	229.1	235.3	241.6	247.9	250.2	248.6	247.1	245.5	243.9	243.1
107.5°	310.6	309.9	309.2	308.6	307.9	307.2	306.4	305.7	304.9	304.2	303.0
110°	348.7	348.2	347.7	347.2	346.6	346.2	345.9	345.5	345.2	344.8	343.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	386.9	386.2	385.6	384.9	384.2	383.9	384.0	384.1	384.2	384.2	383.7
115°	442.6	442.6	442.6	442.6	442.6	442.4	442.0	441.7	441.3	441.0	441.2
117.5°	499.2	499.2	499.3	499.4	499.4	499.5	499.6	499.6	499.7	499.8	499.4
120°	534.8	535.2	535.5	535.9	536.2	536.2	535.9	535.5	535.2	534.8	535.0
122.5°	569.8	570.2	570.5	570.9	571.2	571.3	571.1	570.9	570.7	570.5	570.2
125°	622.4	622.2	622.0	621.9	621.7	621.3	620.8	620.3	619.8	619.3	619.6
127.5°	668.5	668.7	668.8	668.9	669.1	669.2	669.3	669.4	669.5	669.6	668.8
130°	699.8	699.8	699.8	699.8	699.8	699.7	699.5	699.4	699.2	699.0	698.5
132.5°	728.6	728.7	728.8	729.0	729.1	729.1	728.9	728.8	728.6	728.4	727.7
135°	771.7	771.4	771.0	770.7	770.3	770.0	769.6	769.3	768.9	768.6	767.9
137.5°	808.6	808.7	808.8	808.9	809.0	808.9	808.5	808.1	807.8	807.4	806.6
140°	834.3	834.1	833.9	833.8	833.6	833.2	832.7	832.2	831.7	831.1	830.8
142.5°	855.5	855.5	855.5	855.4	855.4	855.2	854.8	854.4	854.1	853.7	853.5
145°	888.2	887.9	887.5	887.2	886.8	886.6	886.4	886.2	886.1	885.9	885.9
147.5°	915.3	915.1	914.9	914.8	914.6	914.4	914.3	914.2	914.0	913.9	914.0
150°	932.8	932.6	932.4	932.3	932.1	932.0	932.0	932.0	932.0	932.0	932.2
152.5°	947.8	947.9	948.0	948.1	948.2	948.1	947.9	947.6	947.3	947.0	947.3
155°	968.0	968.5	969.0	969.5	970.1	970.0	969.3	968.6	967.9	967.2	967.7
157.5°	984.9	985.8	986.7	987.6	988.5	988.5	987.6	986.7	985.8	984.9	985.5
160°	996.1	997.2	998.2	999.3	1000.3	1000.3	999.3	998.2	997.2	996.1	996.3
162.5°	1004.9	1006.1	1007.2	1008.4	1009.6	1009.7	1008.6	1007.6	1006.6	1005.5	1005.7
165°	1017.2	1018.8	1020.4	1021.9	1023.5	1023.6	1022.2	1020.8	1019.4	1018.0	1018.0
167.5°	1026.5	1028.2	1029.9	1031.7	1033.4	1033.5	1032.0	1030.5	1028.9	1027.4	1027.5
170°	1032.1	1033.8	1035.6	1037.3	1039.0	1039.2	1037.8	1036.4	1035.0	1033.7	1033.5
172.5°	1035.2	1037.1	1039.0	1040.9	1042.7	1043.0	1041.6	1040.2	1038.8	1037.4	1037.2
175°	1039.1	1041.2	1043.3	1045.4	1047.5	1047.7	1046.2	1044.6	1043.0	1041.5	1041.3
177.5°	1041.6	1043.3	1045.0	1046.6	1048.3	1048.6	1047.5	1046.4	1045.2	1044.1	1043.9
180°	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4
2.5°	605.2	602.6	601.2	598.2	594.6	592.7	591.0	588.5	585.3	581.9	579.5
5°	635.9	630.2	623.1	614.6	607.1	599.7	593.3	586.9	579.6	572.0	564.5
7.5°	667.4	656.3	644.2	630.2	616.7	604.3	592.9	582.1	569.8	558.7	548.7
10°	689.4	674.3	657.5	639.7	622.0	606.6	591.4	577.7	562.6	549.1	537.7
12.5°	707.2	689.4	669.2	647.1	625.7	607.1	589.7	571.8	554.6	540.0	524.8
15°	736.7	712.4	685.2	658.6	631.0	605.6	582.2	561.4	541.7	521.1	506.7
17.5°	757.1	728.1	695.0	663.2	630.5	600.6	573.6	548.8	526.1	505.1	487.9
20°	769.2	737.2	700.5	664.3	627.6	595.7	566.6	539.1	515.7	493.0	475.2
22.5°	776.0	740.6	700.5	662.6	624.6	590.0	558.1	529.5	504.0	481.2	461.6
25°	778.2	740.3	699.4	655.8	614.2	577.5	544.3	513.3	484.9	462.2	441.4
27.5°	775.1	730.5	688.6	643.9	600.9	562.3	527.5	494.9	466.5	442.1	420.7
30°	770.6	722.8	677.8	631.4	587.9	550.7	514.0	482.8	453.2	427.9	406.4
32.5°	760.7	713.3	664.9	617.4	573.3	535.0	500.2	468.8	439.8	413.9	391.0
35°	741.2	693.2	640.7	591.9	548.6	508.8	476.2	445.9	418.2	390.5	366.4
37.5°	715.5	666.5	614.2	560.8	517.4	479.9	450.0	421.5	394.5	369.2	342.5
40°	691.3	646.6	592.6	539.6	495.1	458.9	431.2	405.4	378.2	353.1	326.4
42.5°	662.0	623.9	569.3	516.1	472.2	437.3	411.5	386.3	361.5	337.2	309.3
45°	613.0	584.1	533.0	481.9	437.6	403.0	379.4	357.1	335.4	312.2	285.9
47.5°	556.8	537.3	493.2	440.8	399.9	368.8	345.9	327.7	309.3	286.1	263.1
50°	517.8	505.3	462.7	414.9	375.8	347.2	323.8	306.7	291.3	269.1	248.5
52.5°	476.2	469.5	433.5	387.8	350.1	322.0	302.0	286.7	271.1	252.6	233.4
55°	412.7	416.3	385.8	346.2	310.7	287.1	268.9	256.1	242.8	227.2	212.3
57.5°	347.9	360.9	340.4	305.7	272.4	250.5	236.8	226.1	214.9	202.0	189.2
60°	309.1	320.0	308.4	277.8	248.7	228.4	215.6	207.3	196.2	184.4	174.7
62.5°	271.2	282.9	276.0	251.3	224.3	206.8	195.5	187.8	179.5	169.2	159.1
65°	223.7	231.2	227.9	210.9	191.7	176.8	166.4	160.7	153.1	145.6	136.6
67.5°	171.3	185.9	184.0	174.9	158.4	146.7	139.9	134.9	128.0	122.4	116.3
70°	140.8	154.3	154.1	146.7	137.7	126.9	122.1	117.9	111.7	106.3	101.3
72.5°	115.3	127.6	129.5	123.8	117.7	109.4	104.9	102.0	96.0	92.3	88.2
75°	80.7	89.7	92.1	92.1	89.2	85.0	80.9	79.0	74.8	71.5	69.1
77.5°	52.9	58.6	62.3	63.1	63.6	62.1	58.8	57.5	54.2	53.1	50.8
80°	37.4	41.2	45.4	46.9	48.0	47.6	46.2	45.2	42.1	40.9	40.0
82.5°	25.8	27.9	31.4	34.6	34.2	35.5	34.2	33.5	31.1	30.7	29.8
85°	13.5	13.7	14.2	16.3	17.5	18.0	18.2	17.8	17.0	17.0	15.4
87.5°	7.4	7.0	7.1	6.7	6.5	6.9	7.1	6.9	6.7	6.5	6.3
90°	14.4	13.0	11.6	10.0	8.1	6.2	4.3	2.3	4.3	6.2	8.1
92.5°	13.8	12.4	11.0	10.3	10.2	10.1	10.0	9.9	10.0	10.1	10.2
95°	16.9	16.7	16.5	19.4	25.3	31.2	37.1	43.0	37.1	31.2	25.3
97.5°	59.4	78.8	98.2	106.1	102.4	98.7	95.0	91.3	95.0	98.7	102.4
100°	82.4	106.3	130.3	140.7	137.6	134.5	131.4	128.2	131.4	134.5	137.6
102.5°	172.0	175.1	178.3	178.7	176.4	174.1	171.8	169.5	171.8	174.1	176.4
105°	242.2	241.3	240.5	239.5	238.5	237.4	236.4	235.3	236.4	237.4	238.5
107.5°	301.8	300.6	299.4	298.6	298.1	297.5	297.0	296.5	297.0	297.5	298.1
110°	342.7	341.7	340.6	339.9	339.3	338.8	338.3	337.8	338.3	338.8	339.3





TEST NUMBER: P332877

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	383.2	382.8	382.3	381.6	380.6	379.7	378.7	377.8	378.7	379.7	380.6
115°	441.3	441.5	441.7	441.5	441.0	440.5	439.9	439.4	439.9	440.5	441.0
117.5°	499.0	498.6	498.3	497.7	497.0	496.3	495.6	494.9	495.6	496.3	497.0
120°	535.2	535.3	535.5	535.2	534.6	533.9	533.2	532.5	533.2	533.9	534.6
122.5°	570.0	569.7	569.5	569.2	568.7	568.3	567.9	567.5	567.9	568.3	568.7
125°	620.0	620.3	620.6	620.5	619.8	619.1	618.4	617.7	618.4	619.1	619.8
127.5°	668.0	667.2	666.4	665.9	665.8	665.6	665.4	665.2	665.4	665.6	665.8
130°	698.0	697.4	696.9	696.6	696.4	696.2	696.1	695.9	696.1	696.2	696.4
132.5°	727.1	726.4	725.8	725.3	725.0	724.7	724.3	724.0	724.3	724.7	725.0
135°	767.2	766.5	765.8	765.6	765.7	765.9	766.1	766.3	766.1	765.9	765.7
137.5°	805.9	805.1	804.3	803.9	803.8	803.8	803.7	803.6	803.7	803.8	803.8
140°	830.5	830.1	829.8	829.4	829.1	828.7	828.4	828.0	828.4	828.7	829.1
142.5°	853.3	853.0	852.8	852.4	851.8	851.2	850.5	849.9	850.5	851.2	851.8
145°	885.9	885.9	885.9	885.6	885.1	884.6	884.1	883.5	884.1	884.6	885.1
147.5°	914.2	914.4	914.6	914.2	913.2	912.2	911.3	910.3	911.3	912.2	913.2
150°	932.4	932.5	932.7	932.4	931.8	931.1	930.4	929.7	930.4	931.1	931.8
152.5°	947.7	948.0	948.3	948.2	947.6	947.0	946.5	945.9	946.5	947.0	947.6
155°	968.2	968.8	969.3	969.5	969.3	969.1	968.9	968.8	968.9	969.1	969.3
157.5°	986.1	986.6	987.2	987.6	987.7	987.8	987.9	988.0	987.9	987.8	987.7
160°	996.5	996.7	996.8	997.2	997.7	998.2	998.7	999.3	998.7	998.2	997.7
162.5°	1005.9	1006.0	1006.2	1006.6	1007.3	1007.9	1008.6	1009.3	1008.6	1007.9	1007.3
165°	1018.0	1018.0	1018.0	1018.5	1019.3	1020.2	1021.1	1021.9	1021.1	1020.2	1019.3
167.5°	1027.6	1027.7	1027.8	1028.3	1029.2	1030.1	1031.0	1031.9	1031.0	1030.1	1029.2
170°	1033.3	1033.1	1033.0	1033.4	1034.4	1035.5	1036.5	1037.6	1036.5	1035.5	1034.4
172.5°	1037.1	1036.9	1036.7	1037.2	1038.2	1039.2	1040.3	1041.3	1040.3	1039.2	1038.2
175°	1041.1	1041.0	1040.8	1041.2	1042.3	1043.3	1044.3	1045.4	1044.3	1043.3	1042.3
177.5°	1043.6	1043.3	1043.0	1043.4	1044.3	1045.3	1046.3	1047.3	1046.3	1045.3	1044.3
180°	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4



TEST NUMBER: P332877

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4
2.5°	576.8	574.9	572.5	569.6	566.2	563.2	561.8	563.0	563.6	562.0	561.8
5°	559.2	553.3	548.6	541.5	535.8	531.1	527.8	526.3	526.8	523.0	522.1
7.5°	539.5	532.5	524.7	516.3	508.5	501.5	497.9	495.9	491.8	490.1	487.2
10°	526.8	517.4	509.8	499.8	490.8	482.6	478.5	475.2	471.2	469.3	465.3
12.5°	513.8	502.8	494.4	484.1	474.9	465.0	461.1	455.0	448.7	444.7	439.5
15°	495.3	482.1	471.9	459.6	448.7	437.4	427.2	415.8	411.6	402.6	397.4
17.5°	473.8	460.4	447.8	431.3	414.5	400.3	389.5	378.6	372.1	366.4	363.7
20°	459.6	447.3	429.8	410.6	391.9	376.3	367.5	360.4	353.3	349.3	346.5
22.5°	446.2	430.4	410.1	389.4	370.7	358.5	351.1	343.8	338.0	334.2	330.4
25°	423.6	403.0	381.5	357.8	345.1	334.4	326.4	320.4	316.9	311.9	310.0
27.5°	400.5	375.5	351.8	335.9	322.6	312.8	305.8	301.4	296.9	293.7	291.2
30°	382.7	357.4	336.1	320.9	307.4	299.4	293.7	288.5	284.9	282.3	280.5
32.5°	365.1	339.8	321.9	305.6	294.9	287.1	281.0	277.1	274.3	271.0	269.8
35°	339.6	317.1	301.5	286.8	276.0	268.9	264.1	260.1	257.7	256.8	256.1
37.5°	315.1	296.7	279.9	267.9	258.2	252.6	247.0	245.0	243.4	241.7	242.5
40°	299.6	282.3	267.4	254.7	246.8	240.7	237.4	235.0	233.6	233.6	233.6
42.5°	286.2	269.3	254.7	243.3	235.5	230.3	226.6	224.6	224.1	223.9	225.1
45°	265.3	249.7	235.0	225.5	218.9	213.7	211.6	209.9	209.9	210.9	211.1
47.5°	244.6	230.0	218.2	207.6	201.5	198.3	196.4	195.6	195.7	196.6	197.7
50°	231.9	217.5	205.9	196.4	190.8	187.7	186.0	185.5	186.0	186.0	187.7
52.5°	218.1	205.2	193.8	185.8	179.4	176.5	175.6	174.9	175.2	176.0	176.7
55°	197.9	186.3	175.4	167.8	163.1	161.2	159.0	159.3	158.8	159.3	159.3
57.5°	177.5	167.1	157.0	151.0	146.8	144.1	141.8	142.4	141.7	141.6	141.2
60°	164.5	153.1	145.1	139.6	134.9	132.5	130.4	130.9	130.2	129.7	128.7
62.5°	150.3	140.8	133.1	127.9	124.1	121.4	119.2	118.8	117.1	115.5	113.4
65°	129.7	121.9	115.0	110.1	106.5	104.4	102.7	101.3	97.7	94.0	92.1
67.5°	109.7	104.0	97.6	93.4	90.5	87.8	84.6	82.2	78.9	76.8	75.6
70°	96.8	91.4	85.9	81.9	78.8	76.2	72.7	71.0	68.6	67.7	66.5
72.5°	84.5	79.4	74.4	70.7	67.5	65.4	62.6	61.0	59.9	59.5	58.4
75°	65.8	61.8	58.0	54.7	52.1	50.6	49.5	48.3	47.8	45.7	44.5
77.5°	48.0	45.3	43.0	40.6	38.8	37.8	35.5	34.2	33.4	32.4	32.1
80°	37.4	35.5	33.1	31.7	29.1	28.2	27.2	27.0	26.7	26.5	26.3
82.5°	28.1	26.2	23.9	23.0	22.3	21.7	21.2	20.9	20.7	20.8	20.8
85°	14.2	13.3	13.3	13.0	12.8	12.5	12.3	12.3	12.1	12.3	12.1
87.5°	6.7	6.9	7.2	7.0	7.5	7.8	7.8	8.0	8.4	8.3	8.4
90°	10.0	11.6	13.0	14.4	15.8	17.2	18.2	19.3	20.3	21.4	22.1
92.5°	10.3	11.0	12.4	13.8	15.2	16.6	17.6	18.7	19.7	20.7	21.3
95°	19.4	16.5	16.7	16.9	17.0	17.2	18.2	19.3	20.3	21.4	22.0
97.5°	106.1	98.2	78.8	59.4	40.0	20.6	20.7	20.9	21.0	21.1	21.2
100°	140.7	130.3	106.3	82.4	58.4	34.4	31.4	28.5	25.5	22.6	21.2
102.5°	178.7	178.3	175.1	172.0	168.9	165.8	133.9	102.0	70.2	38.3	22.4
105°	239.5	240.5	241.3	242.2	243.1	243.9	245.5	247.1	248.6	250.2	247.9
107.5°	298.6	299.4	300.6	301.8	303.0	304.2	304.9	305.7	306.4	307.2	307.9
110°	339.9	340.6	341.7	342.7	343.8	344.8	345.2	345.5	345.9	346.2	346.6



TEST NUMBER: P332877

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	381.6	382.3	382.8	383.2	383.7	384.2	384.2	384.1	384.0	383.9	384.2
115°	441.5	441.7	441.5	441.3	441.2	441.0	441.3	441.7	442.0	442.4	442.6
117.5°	497.7	498.3	498.6	499.0	499.4	499.8	499.7	499.6	499.6	499.5	499.4
120°	535.2	535.5	535.3	535.2	535.0	534.8	535.2	535.5	535.9	536.2	536.2
122.5°	569.2	569.5	569.7	570.0	570.2	570.5	570.7	570.9	571.1	571.3	571.2
125°	620.5	620.6	620.3	620.0	619.6	619.3	619.8	620.3	620.8	621.3	621.7
127.5°	665.9	666.4	667.2	668.0	668.8	669.6	669.5	669.4	669.3	669.2	669.1
130°	696.6	696.9	697.4	698.0	698.5	699.0	699.2	699.4	699.5	699.7	699.8
132.5°	725.3	725.8	726.4	727.1	727.7	728.4	728.6	728.8	728.9	729.1	729.1
135°	765.6	765.8	766.5	767.2	767.9	768.6	768.9	769.3	769.6	770.0	770.3
137.5°	803.9	804.3	805.1	805.9	806.6	807.4	807.8	808.1	808.5	808.9	809.0
140°	829.4	829.8	830.1	830.5	830.8	831.1	831.7	832.2	832.7	833.2	833.6
142.5°	852.4	852.8	853.0	853.3	853.5	853.7	854.1	854.4	854.8	855.2	855.4
145°	885.6	885.9	885.9	885.9	885.9	885.9	886.1	886.2	886.4	886.6	886.8
147.5°	914.2	914.6	914.4	914.2	914.0	913.9	914.0	914.2	914.3	914.4	914.6
150°	932.4	932.7	932.5	932.4	932.2	932.0	932.0	932.0	932.0	932.0	932.1
152.5°	948.2	948.3	948.0	947.7	947.3	947.0	947.3	947.6	947.9	948.1	948.2
155°	969.5	969.3	968.8	968.2	967.7	967.2	967.9	968.6	969.3	970.0	970.1
157.5°	987.6	987.2	986.6	986.1	985.5	984.9	985.8	986.7	987.6	988.5	988.5
160°	997.2	996.8	996.7	996.5	996.3	996.1	997.2	998.2	999.3	1000.3	1000.3
162.5°	1006.6	1006.2	1006.0	1005.9	1005.7	1005.5	1006.6	1007.6	1008.6	1009.7	1009.6
165°	1018.5	1018.0	1018.0	1018.0	1018.0	1018.0	1019.4	1020.8	1022.2	1023.6	1023.5
167.5°	1028.3	1027.8	1027.7	1027.6	1027.5	1027.4	1028.9	1030.5	1032.0	1033.5	1033.4
170°	1033.4	1033.0	1033.1	1033.3	1033.5	1033.7	1035.0	1036.4	1037.8	1039.2	1039.0
172.5°	1037.2	1036.7	1036.9	1037.1	1037.2	1037.4	1038.8	1040.2	1041.6	1043.0	1042.7
175°	1041.2	1040.8	1041.0	1041.1	1041.3	1041.5	1043.0	1044.6	1046.2	1047.7	1047.5
177.5°	1043.4	1043.0	1043.3	1043.6	1043.9	1044.1	1045.2	1046.4	1047.5	1048.6	1048.3
180°	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4



TEST NUMBER: P332877

CATALOG NUMBER: SA4XXRDIP-C350D810U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4
2.5°	560.7	561.1	559.8	559.4	559.8	561.1	560.7	561.8	562.0	563.6	563.0
5°	520.2	519.7	518.5	518.8	518.5	519.7	520.2	522.1	523.0	526.8	526.3
7.5°	485.5	483.7	484.2	482.3	484.2	483.7	485.5	487.2	490.1	491.8	495.9
10°	464.3	461.7	459.6	457.7	459.6	461.7	464.3	465.3	469.3	471.2	475.2
12.5°	435.4	433.1	430.3	430.8	430.3	433.1	435.4	439.5	444.7	448.7	455.0
15°	394.3	390.7	385.1	385.8	385.1	390.7	394.3	397.4	402.6	411.6	415.8
17.5°	359.5	359.5	356.9	357.6	356.9	359.5	359.5	363.7	366.4	372.1	378.6
20°	341.5	339.9	340.1	339.4	340.1	339.9	341.5	346.5	349.3	353.3	360.4
22.5°	329.0	327.0	325.3	323.9	325.3	327.0	329.0	330.4	334.2	338.0	343.8
25°	307.9	306.5	304.4	303.9	304.4	306.5	307.9	310.0	311.9	316.9	320.4
27.5°	289.3	289.1	288.2	287.1	288.2	289.1	289.3	291.2	293.7	296.9	301.4
30°	278.6	278.1	277.6	276.9	277.6	278.1	278.6	280.5	282.3	284.9	288.5
32.5°	268.9	268.6	268.1	268.2	268.1	268.6	268.9	269.8	271.0	274.3	277.1
35°	255.1	254.9	254.4	254.2	254.4	254.9	255.1	256.1	256.8	257.7	260.1
37.5°	242.3	242.9	242.6	242.5	242.6	242.9	242.3	242.5	241.7	243.4	245.0
40°	233.4	233.6	234.1	233.8	234.1	233.6	233.4	233.6	233.6	233.6	235.0
42.5°	226.0	226.0	226.7	225.9	226.7	226.0	226.0	225.1	223.9	224.1	224.6
45°	212.8	214.2	213.9	213.9	213.9	214.2	212.8	211.1	210.9	209.9	209.9
47.5°	198.3	199.6	199.9	199.8	199.9	199.6	198.3	197.7	196.6	195.7	195.6
50°	188.9	188.4	189.1	188.9	189.1	188.4	188.9	187.7	186.0	186.0	185.5
52.5°	177.3	177.4	177.4	177.1	177.4	177.4	177.3	176.7	176.0	175.2	174.9
55°	159.5	159.8	159.3	159.5	159.3	159.8	159.5	159.3	159.3	158.8	159.3
57.5°	140.2	139.1	139.5	139.0	139.5	139.1	140.2	141.2	141.6	141.7	142.4
60°	126.4	124.5	124.0	123.1	124.0	124.5	126.4	128.7	129.7	130.2	130.9
62.5°	110.9	109.5	107.9	108.7	107.9	109.5	110.9	113.4	115.5	117.1	118.8
65°	90.2	89.2	88.5	89.5	88.5	89.2	90.2	92.1	94.0	97.7	101.3
67.5°	74.6	74.1	74.1	73.7	74.1	74.1	74.6	75.6	76.8	78.9	82.2
70°	66.5	65.8	65.8	65.3	65.8	65.8	66.5	66.5	67.7	68.6	71.0
72.5°	58.2	57.5	57.7	57.4	57.7	57.5	58.2	58.4	59.5	59.9	61.0
75°	43.1	41.9	41.9	42.1	41.9	41.9	43.1	44.5	45.7	47.8	48.3
77.5°	32.1	31.9	32.2	31.8	32.2	31.9	32.1	32.1	32.4	33.4	34.2
80°	26.3	26.0	25.8	26.5	25.8	26.0	26.3	26.3	26.5	26.7	27.0
82.5°	20.4	20.4	20.3	21.2	20.3	20.4	20.4	20.8	20.8	20.7	20.9
85°	12.3	11.8	12.3	11.8	12.3	11.8	12.3	12.1	12.3	12.1	12.3
87.5°	8.8	8.7	8.6	8.9	8.6	8.7	8.8	8.4	8.3	8.4	8.0
90°	22.4	22.8	23.1	23.5	23.1	22.8	22.4	22.1	21.4	20.3	19.3
92.5°	21.4	21.4	21.5	21.6	21.5	21.4	21.4	21.3	20.7	19.7	18.7
95°	22.2	22.3	22.5	22.7	22.5	22.3	22.2	22.0	21.4	20.3	19.3
97.5°	21.4	21.5	21.7	21.9	21.7	21.5	21.4	21.2	21.1	21.0	20.9
100°	21.4	21.5	21.7	21.9	21.7	21.5	21.4	21.2	22.6	25.5	28.5
102.5°	22.4	22.4	22.5	22.5	22.5	22.4	22.4	22.4	38.3	70.2	102.0
105°	241.6	235.3	229.1	222.8	229.1	235.3	241.6	247.9	250.2	248.6	247.1
107.5°	308.6	309.2	309.9	310.6	309.9	309.2	308.6	307.9	307.2	306.4	305.7
110°	347.2	347.7	348.2	348.7	348.2	347.7	347.2	346.6	346.2	345.9	345.5



TEST NUMBER: P332877

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	384.9	385.6	386.2	386.9	386.2	385.6	384.9	384.2	383.9	384.0	384.1
115°	442.6	442.6	442.6	442.6	442.6	442.6	442.6	442.6	442.4	442.0	441.7
117.5°	499.4	499.3	499.2	499.2	499.2	499.3	499.4	499.4	499.5	499.6	499.6
120°	535.9	535.5	535.2	534.8	535.2	535.5	535.9	536.2	536.2	535.9	535.5
122.5°	570.9	570.5	570.2	569.8	570.2	570.5	570.9	571.2	571.3	571.1	570.9
125°	621.9	622.0	622.2	622.4	622.2	622.0	621.9	621.7	621.3	620.8	620.3
127.5°	668.9	668.8	668.7	668.5	668.7	668.8	668.9	669.1	669.2	669.3	669.4
130°	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.7	699.5	699.4
132.5°	729.0	728.8	728.7	728.6	728.7	728.8	729.0	729.1	729.1	728.9	728.8
135°	770.7	771.0	771.4	771.7	771.4	771.0	770.7	770.3	770.0	769.6	769.3
137.5°	808.9	808.8	808.7	808.6	808.7	808.8	808.9	809.0	808.9	808.5	808.1
140°	833.8	833.9	834.1	834.3	834.1	833.9	833.8	833.6	833.2	832.7	832.2
142.5°	855.4	855.5	855.5	855.5	855.5	855.5	855.4	855.4	855.2	854.8	854.4
145°	887.2	887.5	887.9	888.2	887.9	887.5	887.2	886.8	886.6	886.4	886.2
147.5°	914.8	914.9	915.1	915.3	915.1	914.9	914.8	914.6	914.4	914.3	914.2
150°	932.3	932.4	932.6	932.8	932.6	932.4	932.3	932.1	932.0	932.0	932.0
152.5°	948.1	948.0	947.9	947.8	947.9	948.0	948.1	948.2	948.1	947.9	947.6
155°	969.5	969.0	968.5	968.0	968.5	969.0	969.5	970.1	970.0	969.3	968.6
157.5°	987.6	986.7	985.8	984.9	985.8	986.7	987.6	988.5	988.5	987.6	986.7
160°	999.3	998.2	997.2	996.1	997.2	998.2	999.3	1000.3	1000.3	999.3	998.2
162.5°	1008.4	1007.2	1006.1	1004.9	1006.1	1007.2	1008.4	1009.6	1009.7	1008.6	1007.6
165°	1021.9	1020.4	1018.8	1017.2	1018.8	1020.4	1021.9	1023.5	1023.6	1022.2	1020.8
167.5°	1031.7	1029.9	1028.2	1026.5	1028.2	1029.9	1031.7	1033.4	1033.5	1032.0	1030.5
170°	1037.3	1035.6	1033.8	1032.1	1033.8	1035.6	1037.3	1039.0	1039.2	1037.8	1036.4
172.5°	1040.9	1039.0	1037.1	1035.2	1037.1	1039.0	1040.9	1042.7	1043.0	1041.6	1040.2
175°	1045.4	1043.3	1041.2	1039.1	1041.2	1043.3	1045.4	1047.5	1047.7	1046.2	1044.6
177.5°	1046.6	1045.0	1043.3	1041.6	1043.3	1045.0	1046.6	1048.3	1048.6	1047.5	1046.4
180°	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4



TEST NUMBER: P332877

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4
2.5°	561.8	563.2	566.2	569.6	572.5	574.9	576.8	579.5	581.9	585.3	588.5
5°	527.8	531.1	535.8	541.5	548.6	553.3	559.2	564.5	572.0	579.6	586.9
7.5°	497.9	501.5	508.5	516.3	524.7	532.5	539.5	548.7	558.7	569.8	582.1
10°	478.5	482.6	490.8	499.8	509.8	517.4	526.8	537.7	549.1	562.6	577.7
12.5°	461.1	465.0	474.9	484.1	494.4	502.8	513.8	524.8	540.0	554.6	571.8
15°	427.2	437.4	448.7	459.6	471.9	482.1	495.3	506.7	521.1	541.7	561.4
17.5°	389.5	400.3	414.5	431.3	447.8	460.4	473.8	487.9	505.1	526.1	548.8
20°	367.5	376.3	391.9	410.6	429.8	447.3	459.6	475.2	493.0	515.7	539.1
22.5°	351.1	358.5	370.7	389.4	410.1	430.4	446.2	461.6	481.2	504.0	529.5
25°	326.4	334.4	345.1	357.8	381.5	403.0	423.6	441.4	462.2	484.9	513.3
27.5°	305.8	312.8	322.6	335.9	351.8	375.5	400.5	420.7	442.1	466.5	494.9
30°	293.7	299.4	307.4	320.9	336.1	357.4	382.7	406.4	427.9	453.2	482.8
32.5°	281.0	287.1	294.9	305.6	321.9	339.8	365.1	391.0	413.9	439.8	468.8
35°	264.1	268.9	276.0	286.8	301.5	317.1	339.6	366.4	390.5	418.2	445.9
37.5°	247.0	252.6	258.2	267.9	279.9	296.7	315.1	342.5	369.2	394.5	421.5
40°	237.4	240.7	246.8	254.7	267.4	282.3	299.6	326.4	353.1	378.2	405.4
42.5°	226.6	230.3	235.5	243.3	254.7	269.3	286.2	309.3	337.2	361.5	386.3
45°	211.6	213.7	218.9	225.5	235.0	249.7	265.3	285.9	312.2	335.4	357.1
47.5°	196.4	198.3	201.5	207.6	218.2	230.0	244.6	263.1	286.1	309.3	327.7
50°	186.0	187.7	190.8	196.4	205.9	217.5	231.9	248.5	269.1	291.3	306.7
52.5°	175.6	176.5	179.4	185.8	193.8	205.2	218.1	233.4	252.6	271.1	286.7
55°	159.0	161.2	163.1	167.8	175.4	186.3	197.9	212.3	227.2	242.8	256.1
57.5°	141.8	144.1	146.8	151.0	157.0	167.1	177.5	189.2	202.0	214.9	226.1
60°	130.4	132.5	134.9	139.6	145.1	153.1	164.5	174.7	184.4	196.2	207.3
62.5°	119.2	121.4	124.1	127.9	133.1	140.8	150.3	159.1	169.2	179.5	187.8
65°	102.7	104.4	106.5	110.1	115.0	121.9	129.7	136.6	145.6	153.1	160.7
67.5°	84.6	87.8	90.5	93.4	97.6	104.0	109.7	116.3	122.4	128.0	134.9
70°	72.7	76.2	78.8	81.9	85.9	91.4	96.8	101.3	106.3	111.7	117.9
72.5°	62.6	65.4	67.5	70.7	74.4	79.4	84.5	88.2	92.3	96.0	102.0
75°	49.5	50.6	52.1	54.7	58.0	61.8	65.8	69.1	71.5	74.8	79.0
77.5°	35.5	37.8	38.8	40.6	43.0	45.3	48.0	50.8	53.1	54.2	57.5
80°	27.2	28.2	29.1	31.7	33.1	35.5	37.4	40.0	40.9	42.1	45.2
82.5°	21.2	21.7	22.3	23.0	23.9	26.2	28.1	29.8	30.7	31.1	33.5
85°	12.3	12.5	12.8	13.0	13.3	13.3	14.2	15.4	17.0	17.0	17.8
87.5°	7.8	7.8	7.5	7.0	7.2	6.9	6.7	6.3	6.5	6.7	6.9
90°	18.2	17.2	15.8	14.4	13.0	11.6	10.0	8.1	6.2	4.3	2.3
92.5°	17.6	16.6	15.2	13.8	12.4	11.0	10.3	10.2	10.1	10.0	9.9
95°	18.2	17.2	17.0	16.9	16.7	16.5	19.4	25.3	31.2	37.1	43.0
97.5°	20.7	20.6	40.0	59.4	78.8	98.2	106.1	102.4	98.7	95.0	91.3
100°	31.4	34.4	58.4	82.4	106.3	130.3	140.7	137.6	134.5	131.4	128.2
102.5°	133.9	165.8	168.9	172.0	175.1	178.3	178.7	176.4	174.1	171.8	169.5
105°	245.5	243.9	243.1	242.2	241.3	240.5	239.5	238.5	237.4	236.4	235.3
107.5°	304.9	304.2	303.0	301.8	300.6	299.4	298.6	298.1	297.5	297.0	296.5
110°	345.2	344.8	343.8	342.7	341.7	340.6	339.9	339.3	338.8	338.3	337.8



TEST NUMBER: P332877

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	384.2	384.2	383.7	383.2	382.8	382.3	381.6	380.6	379.7	378.7	377.8
115°	441.3	441.0	441.2	441.3	441.5	441.7	441.5	441.0	440.5	439.9	439.4
117.5°	499.7	499.8	499.4	499.0	498.6	498.3	497.7	497.0	496.3	495.6	494.9
120°	535.2	534.8	535.0	535.2	535.3	535.5	535.2	534.6	533.9	533.2	532.5
122.5°	570.7	570.5	570.2	570.0	569.7	569.5	569.2	568.7	568.3	567.9	567.5
125°	619.8	619.3	619.6	620.0	620.3	620.6	620.5	619.8	619.1	618.4	617.7
127.5°	669.5	669.6	668.8	668.0	667.2	666.4	665.9	665.8	665.6	665.4	665.2
130°	699.2	699.0	698.5	698.0	697.4	696.9	696.6	696.4	696.2	696.1	695.9
132.5°	728.6	728.4	727.7	727.1	726.4	725.8	725.3	725.0	724.7	724.3	724.0
135°	768.9	768.6	767.9	767.2	766.5	765.8	765.6	765.7	765.9	766.1	766.3
137.5°	807.8	807.4	806.6	805.9	805.1	804.3	803.9	803.8	803.8	803.7	803.6
140°	831.7	831.1	830.8	830.5	830.1	829.8	829.4	829.1	828.7	828.4	828.0
142.5°	854.1	853.7	853.5	853.3	853.0	852.8	852.4	851.8	851.2	850.5	849.9
145°	886.1	885.9	885.9	885.9	885.9	885.9	885.6	885.1	884.6	884.1	883.5
147.5°	914.0	913.9	914.0	914.2	914.4	914.6	914.2	913.2	912.2	911.3	910.3
150°	932.0	932.0	932.2	932.4	932.5	932.7	932.4	931.8	931.1	930.4	929.7
152.5°	947.3	947.0	947.3	947.7	948.0	948.3	948.2	947.6	947.0	946.5	945.9
155°	967.9	967.2	967.7	968.2	968.8	969.3	969.5	969.3	969.1	968.9	968.8
157.5°	985.8	984.9	985.5	986.1	986.6	987.2	987.6	987.7	987.8	987.9	988.0
160°	997.2	996.1	996.3	996.5	996.7	996.8	997.2	997.7	998.2	998.7	999.3
162.5°	1006.6	1005.5	1005.7	1005.9	1006.0	1006.2	1006.6	1007.3	1007.9	1008.6	1009.3
165°	1019.4	1018.0	1018.0	1018.0	1018.0	1018.0	1018.5	1019.3	1020.2	1021.1	1021.9
167.5°	1028.9	1027.4	1027.5	1027.6	1027.7	1027.8	1028.3	1029.2	1030.1	1031.0	1031.9
170°	1035.0	1033.7	1033.5	1033.3	1033.1	1033.0	1033.4	1034.4	1035.5	1036.5	1037.6
172.5°	1038.8	1037.4	1037.2	1037.1	1036.9	1036.7	1037.2	1038.2	1039.2	1040.3	1041.3
175°	1043.0	1041.5	1041.3	1041.1	1041.0	1040.8	1041.2	1042.3	1043.3	1044.3	1045.4
177.5°	1045.2	1044.1	1043.9	1043.6	1043.3	1043.0	1043.4	1044.3	1045.3	1046.3	1047.3
180°	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4



TEST NUMBER: P332877

CATALOG NUMBER: SA4XXRDIP-C350D810U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4	587.4
2.5°	591.0	592.7	594.6	598.2	601.2	602.6	605.2	607.1	606.5	609.2	613.7
5°	593.3	599.7	607.1	614.6	623.1	630.2	635.9	641.6	646.1	651.5	659.6
7.5°	592.9	604.3	616.7	630.2	644.2	656.3	667.4	678.8	688.9	699.9	714.4
10°	591.4	606.6	622.0	639.7	657.5	674.3	689.4	703.6	717.1	731.5	749.8
12.5°	589.7	607.1	625.7	647.1	669.2	689.4	707.2	727.7	744.6	763.2	784.2
15°	582.2	605.6	631.0	658.6	685.2	712.4	736.7	761.8	785.3	807.5	834.0
17.5°	573.6	600.6	630.5	663.2	695.0	728.1	757.1	788.7	812.6	842.5	867.1
20°	566.6	595.7	627.6	664.3	700.5	737.2	769.2	801.4	828.3	858.4	889.6
22.5°	558.1	590.0	624.6	662.6	700.5	740.6	776.0	808.0	841.4	875.2	907.4
25°	544.3	577.5	614.2	655.8	699.4	740.3	778.2	817.9	853.9	890.6	919.5
27.5°	527.5	562.3	600.9	643.9	688.6	730.5	775.1	817.5	853.7	889.0	914.2
30°	514.0	550.7	587.9	631.4	677.8	722.8	770.6	813.0	851.1	882.8	897.0
32.5°	500.2	535.0	573.3	617.4	664.9	713.3	760.7	804.1	839.3	858.3	858.7
35°	476.2	508.8	548.6	591.9	640.7	693.2	741.2	783.8	805.4	807.0	783.8
37.5°	450.0	479.9	517.4	560.8	614.2	666.5	715.5	743.9	751.1	727.0	684.2
40°	431.2	458.9	495.1	539.6	592.6	646.6	691.3	712.1	704.6	665.5	617.7
42.5°	411.5	437.3	472.2	516.1	569.3	623.9	662.0	673.1	653.1	608.0	552.0
45°	379.4	403.0	437.6	481.9	533.0	584.1	613.0	607.3	573.9	520.4	457.7
47.5°	345.9	368.8	399.9	440.8	493.2	537.3	556.8	539.7	492.2	433.4	382.4
50°	323.8	347.2	375.8	414.9	462.7	505.3	517.8	491.8	439.0	382.5	335.6
52.5°	302.0	322.0	350.1	387.8	433.5	469.5	476.2	446.2	391.7	341.0	299.4
55°	268.9	287.1	310.7	346.2	385.8	416.3	412.7	374.2	324.7	281.4	248.7
57.5°	236.8	250.5	272.4	305.7	340.4	360.9	347.9	315.0	268.9	233.4	205.9
60°	215.6	228.4	248.7	277.8	308.4	320.0	309.1	273.4	236.9	204.5	181.3
62.5°	195.5	206.8	224.3	251.3	276.0	282.9	271.2	240.0	207.2	179.5	160.3
65°	166.4	176.8	191.7	210.9	227.9	231.2	223.7	191.7	166.9	143.7	130.4
67.5°	139.9	146.7	158.4	174.9	184.0	185.9	171.3	151.2	129.3	115.1	105.1
70°	122.1	126.9	137.7	146.7	154.1	154.3	140.8	124.7	107.9	96.3	89.0
72.5°	104.9	109.4	117.7	123.8	129.5	127.6	115.3	102.6	89.0	80.2	74.8
75°	80.9	85.0	89.2	92.1	92.1	89.7	80.7	71.2	63.4	58.2	56.6
77.5°	58.8	62.1	63.6	63.1	62.3	58.6	52.9	46.7	43.9	41.5	40.2
80°	46.2	47.6	48.0	46.9	45.4	41.2	37.4	34.8	32.2	31.2	30.8
82.5°	34.2	35.5	34.2	34.6	31.4	27.9	25.8	24.9	23.9	23.5	23.0
85°	18.2	18.0	17.5	16.3	14.2	13.7	13.5	13.3	12.8	13.0	12.5
87.5°	7.1	6.9	6.5	6.7	7.1	7.0	7.4	7.7	8.0	8.0	8.6
90°	4.3	6.2	8.1	10.0	11.6	13.0	14.4	15.8	17.2	18.2	19.3
92.5°	10.0	10.1	10.2	10.3	11.0	12.4	13.8	15.2	16.6	17.6	18.7
95°	37.1	31.2	25.3	19.4	16.5	16.7	16.9	17.0	17.2	18.2	19.3
97.5°	95.0	98.7	102.4	106.1	98.2	78.8	59.4	40.0	20.6	20.7	20.9
100°	131.4	134.5	137.6	140.7	130.3	106.3	82.4	58.4	34.4	31.4	28.5
102.5°	171.8	174.1	176.4	178.7	178.3	175.1	172.0	168.9	165.8	133.9	102.0
105°	236.4	237.4	238.5	239.5	240.5	241.3	242.2	243.1	243.9	245.5	247.1
107.5°	297.0	297.5	298.1	298.6	299.4	300.6	301.8	303.0	304.2	304.9	305.7
110°	338.3	338.8	339.3	339.9	340.6	341.7	342.7	343.8	344.8	345.2	345.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	378.7	379.7	380.6	381.6	382.3	382.8	383.2	383.7	384.2	384.2	384.1
115°	439.9	440.5	441.0	441.5	441.7	441.5	441.3	441.2	441.0	441.3	441.7
117.5°	495.6	496.3	497.0	497.7	498.3	498.6	499.0	499.4	499.8	499.7	499.6
120°	533.2	533.9	534.6	535.2	535.5	535.3	535.2	535.0	534.8	535.2	535.5
122.5°	567.9	568.3	568.7	569.2	569.5	569.7	570.0	570.2	570.5	570.7	570.9
125°	618.4	619.1	619.8	620.5	620.6	620.3	620.0	619.6	619.3	619.8	620.3
127.5°	665.4	665.6	665.8	665.9	666.4	667.2	668.0	668.8	669.6	669.5	669.4
130°	696.1	696.2	696.4	696.6	696.9	697.4	698.0	698.5	699.0	699.2	699.4
132.5°	724.3	724.7	725.0	725.3	725.8	726.4	727.1	727.7	728.4	728.6	728.8
135°	766.1	765.9	765.7	765.6	765.8	766.5	767.2	767.9	768.6	768.9	769.3
137.5°	803.7	803.8	803.8	803.9	804.3	805.1	805.9	806.6	807.4	807.8	808.1
140°	828.4	828.7	829.1	829.4	829.8	830.1	830.5	830.8	831.1	831.7	832.2
142.5°	850.5	851.2	851.8	852.4	852.8	853.0	853.3	853.5	853.7	854.1	854.4
145°	884.1	884.6	885.1	885.6	885.9	885.9	885.9	885.9	885.9	886.1	886.2
147.5°	911.3	912.2	913.2	914.2	914.6	914.4	914.2	914.0	913.9	914.0	914.2
150°	930.4	931.1	931.8	932.4	932.7	932.5	932.4	932.2	932.0	932.0	932.0
152.5°	946.5	947.0	947.6	948.2	948.3	948.0	947.7	947.3	947.0	947.3	947.6
155°	968.9	969.1	969.3	969.5	969.3	968.8	968.2	967.7	967.2	967.9	968.6
157.5°	987.9	987.8	987.7	987.6	987.2	986.6	986.1	985.5	984.9	985.8	986.7
160°	998.7	998.2	997.7	997.2	996.8	996.7	996.5	996.3	996.1	997.2	998.2
162.5°	1008.6	1007.9	1007.3	1006.6	1006.2	1006.0	1005.9	1005.7	1005.5	1006.6	1007.6
165°	1021.1	1020.2	1019.3	1018.5	1018.0	1018.0	1018.0	1018.0	1018.0	1019.4	1020.8
167.5°	1031.0	1030.1	1029.2	1028.3	1027.8	1027.7	1027.6	1027.5	1027.4	1028.9	1030.5
170°	1036.5	1035.5	1034.4	1033.4	1033.0	1033.1	1033.3	1033.5	1033.7	1035.0	1036.4
172.5°	1040.3	1039.2	1038.2	1037.2	1036.7	1036.9	1037.1	1037.2	1037.4	1038.8	1040.2
175°	1044.3	1043.3	1042.3	1041.2	1040.8	1041.0	1041.1	1041.3	1041.5	1043.0	1044.6
177.5°	1046.3	1045.3	1044.3	1043.4	1043.0	1043.3	1043.6	1043.9	1044.1	1045.2	1046.4
180°	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	587.4	587.4	587.4	587.4	587.4	587.4	587.4
2.5°	616.2	616.9	617.5	619.4	619.6	621.3	619.6
5°	667.2	670.5	675.7	680.9	681.4	684.7	678.8
7.5°	724.3	732.0	736.8	745.2	748.5	750.6	747.2
10°	763.7	770.8	783.4	789.5	795.7	796.6	793.8
12.5°	801.8	813.0	822.9	834.6	834.3	842.6	839.6
15°	852.5	864.1	877.8	890.8	895.5	895.5	899.3
17.5°	888.6	909.9	924.1	934.3	945.5	947.4	946.1
20°	913.1	936.0	951.2	964.4	972.0	974.1	974.1
22.5°	931.2	950.8	965.6	977.5	983.7	986.2	985.5
25°	943.8	960.6	969.6	973.2	974.8	974.4	969.9
27.5°	926.6	925.8	920.2	909.3	901.1	896.1	890.4
30°	893.7	881.3	867.1	851.5	831.4	816.0	811.3
32.5°	844.6	817.0	792.9	766.9	745.3	729.9	723.4
35°	749.8	706.0	670.2	639.0	616.3	602.1	597.3
37.5°	637.2	594.8	550.6	520.3	501.4	487.1	481.8
40°	565.6	519.5	480.9	452.5	433.1	419.1	418.9
42.5°	500.3	456.2	419.9	399.5	378.6	369.3	369.3
45°	409.7	374.4	343.6	327.5	315.0	307.4	305.3
47.5°	339.2	310.0	289.5	276.7	266.5	261.7	258.5
50°	299.6	274.1	257.7	246.6	240.9	234.8	234.3
52.5°	266.7	246.0	233.3	224.3	217.1	213.4	213.5
55°	224.1	207.8	198.8	191.9	186.3	183.4	182.2
57.5°	188.8	176.6	170.0	163.7	161.3	159.1	158.5
60°	166.9	158.6	152.4	147.4	143.9	143.2	142.9
62.5°	148.7	140.0	135.8	131.9	129.3	128.2	127.8
65°	122.6	116.2	112.4	109.3	108.4	106.7	106.5
67.5°	98.8	95.0	92.5	90.4	89.1	89.0	89.0
70°	84.3	82.1	80.0	78.8	78.1	77.6	77.6
72.5°	71.8	70.2	68.4	67.8	67.7	67.2	67.0
75°	54.7	53.0	53.3	52.1	51.1	49.9	49.2
77.5°	38.8	37.6	37.3	37.2	36.4	36.3	36.6
80°	30.1	28.9	28.6	28.9	28.6	27.9	27.9
82.5°	22.9	21.9	21.6	21.5	21.3	21.5	21.1
85°	12.3	11.8	11.8	11.8	12.3	12.1	11.8
87.5°	8.4	8.4	8.8	8.6	8.7	8.6	8.9
90°	20.3	21.4	22.1	22.4	22.8	23.1	23.5
92.5°	19.7	20.7	21.3	21.4	21.4	21.5	21.6
95°	20.3	21.4	22.0	22.2	22.3	22.5	22.7
97.5°	21.0	21.1	21.2	21.4	21.5	21.7	21.9
100°	25.5	22.6	21.2	21.4	21.5	21.7	21.9
102.5°	70.2	38.3	22.4	22.4	22.4	22.5	22.5
105°	248.6	250.2	247.9	241.6	235.3	229.1	222.8
107.5°	306.4	307.2	307.9	308.6	309.2	309.9	310.6
110°	345.9	346.2	346.6	347.2	347.7	348.2	348.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	384.0	383.9	384.2	384.9	385.6	386.2	386.9
115°	442.0	442.4	442.6	442.6	442.6	442.6	442.6
117.5°	499.6	499.5	499.4	499.4	499.3	499.2	499.2
120°	535.9	536.2	536.2	535.9	535.5	535.2	534.8
122.5°	571.1	571.3	571.2	570.9	570.5	570.2	569.8
125°	620.8	621.3	621.7	621.9	622.0	622.2	622.4
127.5°	669.3	669.2	669.1	668.9	668.8	668.7	668.5
130°	699.5	699.7	699.8	699.8	699.8	699.8	699.8
132.5°	728.9	729.1	729.1	729.0	728.8	728.7	728.6
135°	769.6	770.0	770.3	770.7	771.0	771.4	771.7
137.5°	808.5	808.9	809.0	808.9	808.8	808.7	808.6
140°	832.7	833.2	833.6	833.8	833.9	834.1	834.3
142.5°	854.8	855.2	855.4	855.4	855.5	855.5	855.5
145°	886.4	886.6	886.8	887.2	887.5	887.9	888.2
147.5°	914.3	914.4	914.6	914.8	914.9	915.1	915.3
150°	932.0	932.0	932.1	932.3	932.4	932.6	932.8
152.5°	947.9	948.1	948.2	948.1	948.0	947.9	947.8
155°	969.3	970.0	970.1	969.5	969.0	968.5	968.0
157.5°	987.6	988.5	988.5	987.6	986.7	985.8	984.9
160°	999.3	1000.3	1000.3	999.3	998.2	997.2	996.1
162.5°	1008.6	1009.7	1009.6	1008.4	1007.2	1006.1	1004.9
165°	1022.2	1023.6	1023.5	1021.9	1020.4	1018.8	1017.2
167.5°	1032.0	1033.5	1033.4	1031.7	1029.9	1028.2	1026.5
170°	1037.8	1039.2	1039.0	1037.3	1035.6	1033.8	1032.1
172.5°	1041.6	1043.0	1042.7	1040.9	1039.0	1037.1	1035.2
175°	1046.2	1047.7	1047.5	1045.4	1043.3	1041.2	1039.1
177.5°	1047.5	1048.6	1048.3	1046.6	1045.0	1043.3	1041.6
180°	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4

(END OF REPORT)