

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: P332890-927

Luminaire Tested: **SA4XXRDIP-C350D1205U927-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332890-927
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: SA4XXRDIP-C350D1205U927-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1205 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4481.4 lumens
Efficiency: N/A
Efficacy: 106.2 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

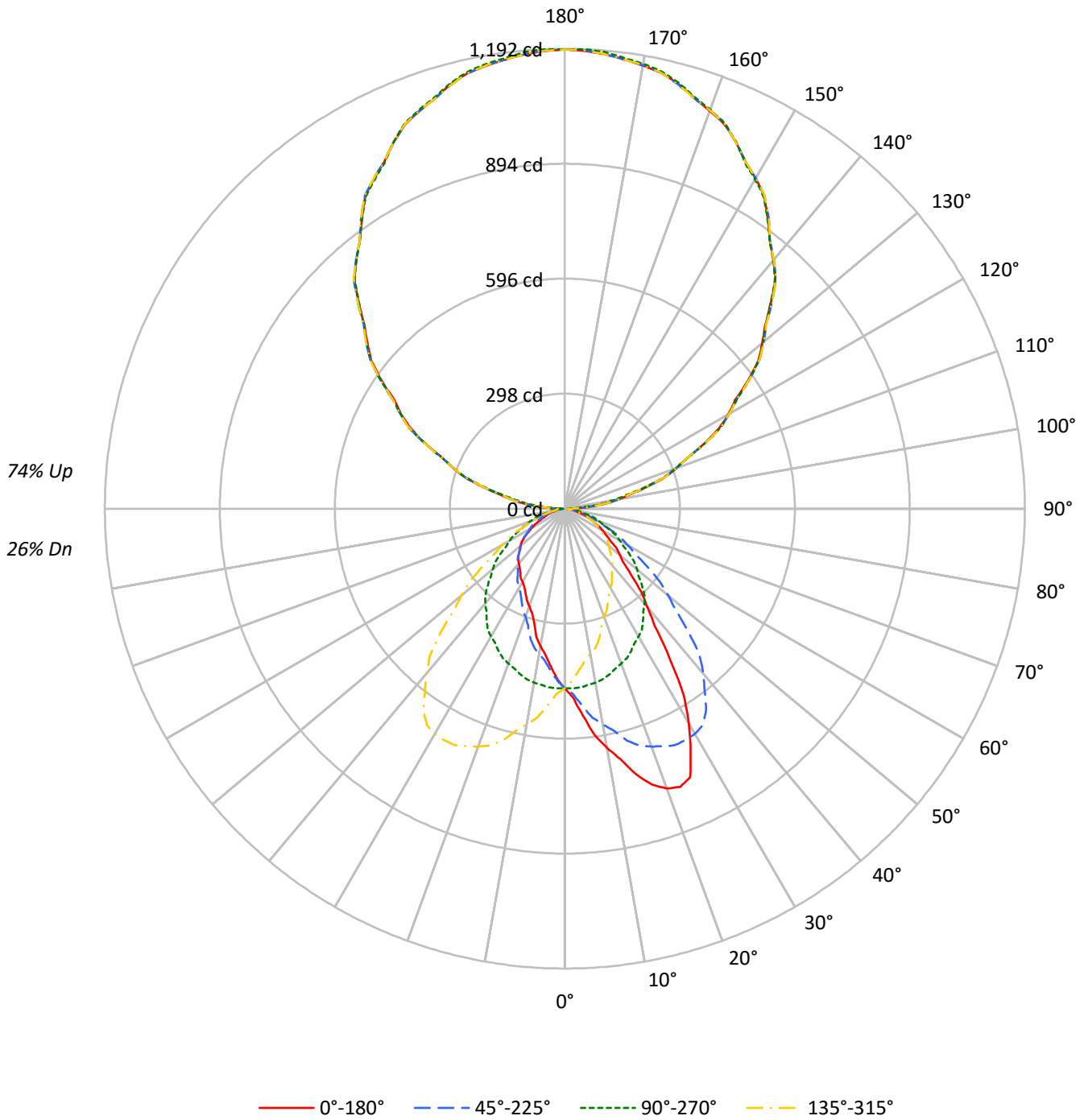
Input Watts (W): 42.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	102	102	102	91	91	91	91	70	70	70	52	52	52	34	34	34	26				
1	93	89	85	82	83	79	76	73	62	60	58	46	44	43	31	30	29	23				
2	85	78	72	67	75	70	65	61	54	51	48	40	38	36	27	26	25	19				
3	77	68	61	56	69	61	55	51	48	44	41	36	33	31	24	23	22	17				
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	22	20	19	14				
5	65	54	46	41	58	48	42	37	38	34	30	29	26	23	20	18	16	13				
6	60	48	41	35	53	43	37	32	34	30	26	26	23	20	18	16	15	11				
7	55	43	36	31	49	39	33	28	31	26	23	24	20	18	16	14	13	10				
8	51	39	32	27	45	35	29	25	28	24	20	21	18	16	15	13	12	9				
9	47	36	29	24	42	32	26	22	26	21	18	20	17	14	14	12	10	8				
10	44	33	26	21	39	30	24	20	24	19	16	18	15	13	13	11	9	7				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3756	3756	3756	3756
5°	4357	3767	3331	3767
10°	5155	3751	2972	3751
15°	5954	3717	2554	3717
20°	6630	3669	2310	3669
25°	6844	3622	2144	3622
30°	5991	3566	2045	3566
35°	4664	3481	1985	3481
40°	3497	3385	1952	3385
45°	2762	3230	1934	3230
50°	2331	3052	1879	3052
55°	2031	2856	1779	2856
60°	1828	2651	1574	2651
65°	1612	2432	1354	2432
70°	1452	2205	1220	2205
75°	1216	1953	1042	1953
80°	1027	1664	976	1664
85°	861	1306	861	1306



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.1	1.0
10°-20°	136.0	3.0
20°-30°	212.7	4.7
30°-40°	236.5	5.3
40°-50°	209.8	4.7
50°-60°	163.5	3.6
60°-70°	107.0	2.4
70°-80°	52.6	1.2
80°-90°	16.5	0.4
90°-100°	78.5	1.8
100°-110°	232.5	5.2
110°-120°	394.6	8.8
120°-130°	520.4	11.6
130°-140°	584.4	13.0
140°-150°	574.3	12.8
150°-160°	483.0	10.8
160°-170°	321.4	7.2
170°-180°	112.5	2.5
0°-30°	393.8	8.8
0°-40°	630.3	14.1
0°-60°	1003.6	22.4
0°-90°	1179.8	26.3
90°-120°	705.6	15.7
90°-150°	2384.7	53.2
90°-180°	3302.0	73.7
0°-180°	4481.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	465	465	465	465	465	
5°	538	465	411	465	538	54
15°	712	445	306	445	712	203
25°	768	407	241	407	768	341
35°	473	353	201	353	473	297
45°	242	283	169	283	242	192
55°	144	203	126	203	144	131
65°	84	127	71	127	84	85
75°	39	63	33	63	39	43
85°	9	14	9	14	9	11
90°	28	3	28	3	28	14
95°	73	55	73	55	73	76
105°	225	214	225	214	225	237
115°	398	401	398	401	398	393
125°	580	584	580	584	580	517
135°	755	754	755	754	755	583
145°	917	916	917	916	917	574
155°	1048	1049	1048	1049	1048	483
165°	1139	1142	1139	1142	1139	321
175°	1183	1188	1183	1188	1183	112
180°	1190	1190	1190	1190	1190	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3
2.5°	490.8	492.2	490.8	490.7	489.2	488.7	488.1	486.2	482.6	480.5	480.9
5°	537.7	542.4	539.8	539.4	535.3	531.2	528.5	522.5	516.1	511.8	508.3
7.5°	591.9	594.6	592.9	590.3	583.7	579.9	573.8	565.9	554.4	545.7	537.7
10°	628.8	631.1	630.3	625.4	620.6	610.6	605.0	594.0	579.5	568.1	557.4
12.5°	665.1	667.5	660.9	661.2	651.9	644.0	635.2	621.2	604.6	589.9	576.5
15°	712.4	709.4	709.4	705.7	695.4	684.5	675.3	660.7	639.7	622.1	603.5
17.5°	749.5	750.5	749.0	740.1	732.1	720.8	703.9	686.9	667.4	643.7	624.8
20°	771.7	771.7	770.0	764.0	753.5	741.5	723.3	704.7	680.0	656.2	634.9
22.5°	780.7	781.3	779.3	774.4	764.9	753.2	737.7	718.8	693.3	666.5	640.1
25°	768.3	771.9	772.2	771.0	768.1	761.0	747.7	728.4	705.5	676.4	647.9
27.5°	705.4	709.9	713.8	720.3	729.0	733.4	734.0	724.2	704.3	676.3	647.6
30°	642.7	646.4	658.6	674.5	686.9	698.2	708.0	710.6	699.3	674.2	644.0
32.5°	573.1	578.2	590.4	607.5	628.1	647.2	669.1	680.2	679.9	664.9	637.0
35°	473.2	477.0	488.2	506.2	530.9	559.3	594.0	620.9	639.3	638.0	620.9
37.5°	381.7	385.9	397.2	412.2	436.2	471.2	504.8	542.0	575.9	595.0	589.3
40°	331.8	332.0	343.1	358.5	381.0	411.5	448.1	489.3	527.2	558.2	564.1
42.5°	292.6	292.6	299.9	316.5	332.6	361.4	396.3	437.3	481.6	517.4	533.2
45°	241.9	243.5	249.5	259.4	272.2	296.6	324.6	362.6	412.3	454.6	481.1
47.5°	204.8	207.3	211.1	219.2	229.3	245.6	268.7	302.9	343.3	389.9	427.5
50°	185.6	186.0	190.8	195.4	204.1	217.1	237.3	265.9	303.0	347.8	389.6
52.5°	169.1	169.1	172.0	177.7	184.8	194.9	211.3	237.2	270.1	310.3	353.5
55°	144.3	145.3	147.6	152.0	157.5	164.6	177.5	197.0	222.9	257.2	296.4
57.5°	125.6	126.0	127.8	129.7	134.7	139.9	149.6	163.1	184.9	213.0	249.5
60°	113.2	113.4	114.0	116.8	120.7	125.6	132.2	143.6	162.0	187.7	216.6
62.5°	101.2	101.6	102.4	104.5	107.6	110.9	117.8	127.0	142.2	164.1	190.1
65°	84.4	84.5	85.9	86.6	89.0	92.1	97.1	103.3	113.8	132.2	151.9
67.5°	70.5	70.5	70.6	71.6	73.3	75.3	78.3	83.3	91.2	102.4	119.8
70°	61.5	61.5	61.9	62.4	63.4	65.0	66.8	70.5	76.3	85.5	98.8
72.5°	53.1	53.2	53.6	53.7	54.2	55.6	56.9	59.3	63.5	70.5	81.3
75°	39.0	39.5	40.5	41.3	42.2	42.0	43.3	44.8	46.1	50.2	56.4
77.5°	29.0	28.8	28.8	29.5	29.5	29.8	30.7	31.8	32.9	34.8	37.0
80°	22.1	22.1	22.7	22.9	22.7	22.9	23.8	24.4	24.7	25.5	27.6
82.5°	16.7	17.0	16.9	17.0	17.1	17.3	18.1	18.2	18.6	18.9	19.7
85°	9.3	9.6	9.7	9.3	9.3	9.3	9.7	9.9	10.3	10.1	10.5
87.5°	8.8	8.6	8.6	8.6	8.6	8.3	8.2	8.3	7.8	7.7	7.3
90°	27.6	27.2	26.8	26.4	26.0	25.2	23.9	22.7	21.5	20.3	18.6
92.5°	40.9	40.6	40.4	40.2	39.8	39.4	38.7	37.9	37.2	36.4	35.3
95°	72.7	72.7	72.7	72.7	72.7	72.4	71.8	71.1	70.6	69.9	68.5
97.5°	113.9	113.9	113.9	113.9	113.9	113.6	112.8	112.1	111.4	110.6	108.9
100°	142.7	142.7	142.7	142.7	142.7	142.4	142.0	141.6	141.2	140.9	138.9
102.5°	175.1	174.9	174.8	174.6	174.4	174.0	173.5	172.9	172.3	171.7	170.1
105°	224.6	223.9	223.3	222.8	222.1	221.5	220.9	220.3	219.7	219.0	218.2
107.5°	272.8	272.8	272.9	272.9	273.0	272.7	272.1	271.6	271.0	270.4	270.3
110°	307.4	306.8	306.2	305.5	304.9	304.8	305.2	305.6	306.1	306.5	306.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	342.8	342.6	342.5	342.4	342.2	342.2	342.3	342.4	342.5	342.5	342.9
115°	397.6	397.8	398.0	398.2	398.4	398.6	398.8	399.0	399.3	399.4	399.8
117.5°	449.9	450.3	450.7	451.1	451.5	452.0	452.7	453.4	454.2	454.9	455.1
120°	489.6	489.3	488.8	488.4	488.0	488.3	489.3	490.4	491.4	492.4	493.0
122.5°	522.8	523.5	524.3	525.0	525.7	526.4	527.1	527.8	528.5	529.2	529.5
125°	579.8	580.2	580.7	581.1	581.5	581.9	582.3	582.7	583.1	583.5	583.7
127.5°	632.6	633.0	633.3	633.7	634.0	634.3	634.8	635.2	635.6	636.0	636.3
130°	667.3	668.0	668.9	669.7	670.5	671.1	671.5	671.9	672.4	672.8	672.8
132.5°	704.1	704.4	704.7	705.0	705.4	705.8	706.2	706.5	706.9	707.4	707.6
135°	754.7	755.3	755.9	756.5	757.2	757.6	758.0	758.5	758.9	759.3	759.3
137.5°	807.9	807.8	807.6	807.6	807.4	807.6	808.1	808.7	809.2	809.7	809.4
140°	840.3	840.5	840.7	840.9	841.1	841.3	841.5	841.7	841.9	842.1	842.1
142.5°	872.7	872.7	872.7	872.8	872.8	872.9	872.9	873.0	873.0	873.1	873.2
145°	916.7	917.3	917.9	918.5	919.1	919.6	919.7	920.0	920.1	920.4	920.1
147.5°	961.2	961.4	961.6	961.9	962.0	962.2	962.4	962.6	962.7	962.9	963.1
150°	988.5	988.6	988.9	989.0	989.3	989.4	989.4	989.4	989.4	989.4	989.4
152.5°	1013.5	1014.0	1014.5	1015.1	1015.7	1015.7	1015.2	1014.6	1014.2	1013.7	1013.5
155°	1048.3	1049.1	1050.0	1050.8	1051.5	1051.5	1050.8	1050.0	1049.1	1048.3	1048.5
157.5°	1079.4	1080.1	1080.8	1081.5	1082.2	1082.2	1081.6	1081.0	1080.4	1079.7	1079.8
160°	1097.1	1098.1	1099.1	1100.1	1101.1	1101.4	1100.7	1100.1	1099.5	1098.9	1099.1
162.5°	1115.5	1116.5	1117.5	1118.6	1119.6	1119.5	1118.4	1117.3	1116.2	1115.1	1115.3
165°	1139.4	1140.2	1141.1	1141.9	1142.6	1142.5	1141.2	1140.0	1138.8	1137.6	1138.0
167.5°	1156.5	1157.8	1159.0	1160.3	1161.6	1161.6	1160.4	1159.1	1157.9	1156.7	1156.7
170°	1166.1	1167.5	1168.9	1170.4	1171.8	1172.0	1170.7	1169.5	1168.2	1167.0	1166.8
172.5°	1174.2	1175.6	1177.0	1178.5	1180.0	1180.0	1178.5	1177.2	1175.8	1174.4	1174.3
175°	1182.6	1184.1	1185.5	1186.9	1188.4	1188.4	1186.9	1185.5	1184.1	1182.6	1182.9
177.5°	1187.1	1188.4	1189.7	1191.0	1192.3	1192.4	1191.3	1190.1	1189.0	1187.8	1187.8
180°	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3
2.5°	479.4	477.4	476.3	473.9	471.0	469.5	468.2	466.2	463.7	461.0	459.1
5°	503.7	499.2	493.6	486.9	480.9	475.1	470.0	464.9	459.1	453.1	447.2
7.5°	528.7	519.9	510.3	499.2	488.5	478.7	469.7	461.1	451.4	442.6	434.7
10°	546.1	534.2	520.9	506.8	492.7	480.5	468.5	457.6	445.7	435.0	426.0
12.5°	560.2	546.1	530.1	512.6	495.7	480.9	467.1	453.0	439.3	427.8	415.7
15°	583.6	564.4	542.8	521.7	499.9	479.7	461.2	444.7	429.1	412.8	401.4
17.5°	599.8	576.8	550.6	525.4	499.5	475.8	454.4	434.7	416.8	400.1	386.5
20°	609.3	584.0	554.9	526.2	497.2	471.9	448.9	427.1	408.5	390.5	376.4
22.5°	614.7	586.7	554.9	524.9	494.8	467.4	442.1	419.5	399.3	381.2	365.7
25°	616.5	586.5	554.1	519.5	486.6	457.5	431.2	406.6	384.1	366.1	349.7
27.5°	614.0	578.7	545.5	510.1	476.0	445.4	417.9	392.1	369.6	350.2	333.3
30°	610.5	572.6	536.9	500.2	465.7	436.3	407.2	382.5	359.0	339.0	321.9
32.5°	602.6	565.1	526.7	489.1	454.2	423.8	396.2	371.4	348.4	327.9	309.7
35°	587.2	549.1	507.6	468.9	434.6	403.1	377.2	353.2	331.3	309.3	290.3
37.5°	566.8	528.0	486.6	444.3	409.9	380.2	356.5	333.9	312.5	292.5	271.3
40°	547.6	512.2	469.4	427.5	392.2	363.5	341.6	321.2	299.6	279.7	258.6
42.5°	524.4	494.2	451.0	408.8	374.1	346.4	326.0	306.0	286.4	267.1	245.0
45°	485.6	462.7	422.2	381.8	346.7	319.2	300.6	282.9	265.7	247.3	226.5
47.5°	441.1	425.6	390.7	349.2	316.8	292.2	274.0	259.6	245.0	226.6	208.4
50°	410.2	400.3	366.5	328.7	297.7	275.0	256.5	243.0	230.8	213.2	196.9
52.5°	377.2	371.9	343.4	307.2	277.3	255.1	239.2	227.1	214.8	200.1	184.9
55°	326.9	329.8	305.6	274.3	246.1	227.4	213.0	202.9	192.3	180.0	168.2
57.5°	275.6	285.9	269.7	242.2	215.8	198.4	187.6	179.1	170.2	160.0	149.9
60°	244.9	253.5	244.3	220.1	197.0	180.9	170.8	164.2	155.4	146.1	138.4
62.5°	214.8	224.1	218.6	199.1	177.7	163.8	154.9	148.8	142.2	134.0	126.0
65°	177.2	183.2	180.5	167.1	151.9	140.1	131.8	127.3	121.3	115.3	108.2
67.5°	135.7	147.3	145.8	138.6	125.5	116.2	110.8	106.9	101.4	97.0	92.1
70°	111.5	122.2	122.1	116.2	109.1	100.5	96.7	93.4	88.5	84.2	80.2
72.5°	91.3	101.1	102.6	98.1	93.2	86.7	83.1	80.8	76.0	73.1	69.9
75°	63.9	71.1	73.0	73.0	70.7	67.3	64.1	62.6	59.3	56.6	54.7
77.5°	41.9	46.4	49.4	50.0	50.4	49.2	46.6	45.6	42.9	42.1	40.2
80°	29.6	32.6	36.0	37.2	38.0	37.7	36.6	35.8	33.4	32.4	31.7
82.5°	20.4	22.1	24.9	27.4	27.1	28.1	27.1	26.5	24.6	24.3	23.6
85°	10.7	10.9	11.2	12.9	13.9	14.3	14.4	14.1	13.5	13.5	12.2
87.5°	7.0	6.5	6.5	6.1	5.8	5.9	5.9	5.6	5.6	5.6	5.6
90°	17.0	15.4	13.7	11.7	9.5	7.3	5.0	2.8	5.0	7.3	9.5
92.5°	34.1	33.0	31.8	30.0	27.4	24.9	22.3	19.7	22.3	24.9	27.4
95°	67.1	65.7	64.2	62.6	60.8	58.9	57.0	55.2	57.0	58.9	60.8
97.5°	107.3	105.6	103.9	102.3	100.8	99.4	97.9	96.5	97.9	99.4	100.8
100°	137.1	135.3	133.5	132.1	131.3	130.5	129.7	128.9	129.7	130.5	131.3
102.5°	168.4	166.7	165.0	164.1	163.7	163.3	163.0	162.7	163.0	163.3	163.7
105°	217.4	216.6	215.8	215.2	215.1	214.8	214.7	214.4	214.7	214.8	215.1
107.5°	270.1	270.1	269.9	269.7	269.5	269.3	269.0	268.7	269.0	269.3	269.5
110°	306.9	307.1	307.3	307.2	306.8	306.3	305.9	305.5	305.9	306.3	306.8



TEST NUMBER: P332890-927

CATALOG NUMBER: SA4XXRDIP-C350D1205U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	343.3	343.6	344.0	344.2	344.1	344.0	344.0	343.8	344.0	344.0	344.1
115°	400.3	400.7	401.1	401.2	401.2	401.2	401.2	401.2	401.2	401.2	401.2
117.5°	455.4	455.7	456.0	456.1	455.9	455.7	455.6	455.4	455.6	455.7	455.9
120°	493.6	494.2	494.9	494.7	493.9	493.1	492.3	491.5	492.3	493.1	493.9
122.5°	529.8	530.0	530.4	530.4	530.0	529.7	529.3	529.0	529.3	529.7	530.0
125°	583.9	584.2	584.3	584.4	584.4	584.4	584.4	584.4	584.4	584.4	584.4
127.5°	636.6	636.9	637.3	637.2	636.5	635.9	635.3	634.7	635.3	635.9	636.5
130°	672.8	672.8	672.8	672.5	671.8	671.2	670.7	670.0	670.7	671.2	671.8
132.5°	707.7	707.9	708.1	707.9	707.4	707.0	706.5	706.1	706.5	707.0	707.4
135°	759.3	759.3	759.3	758.7	757.5	756.2	755.0	753.8	755.0	756.2	757.5
137.5°	809.1	808.7	808.4	807.9	807.4	806.8	806.3	805.6	806.3	806.8	807.4
140°	842.1	842.1	842.1	841.9	841.5	841.1	840.7	840.3	840.7	841.1	841.5
142.5°	873.4	873.5	873.7	873.6	873.1	872.7	872.4	872.0	872.4	872.7	873.1
145°	920.0	919.7	919.6	919.0	918.2	917.4	916.6	915.8	916.6	917.4	918.2
147.5°	963.2	963.4	963.5	963.1	962.1	961.2	960.2	959.2	960.2	961.2	962.1
150°	989.4	989.4	989.4	989.0	988.2	987.4	986.5	985.7	986.5	987.4	988.2
152.5°	1013.4	1013.2	1013.0	1012.7	1012.2	1011.7	1011.2	1010.7	1011.2	1011.7	1012.2
155°	1048.7	1048.9	1049.1	1049.2	1049.2	1049.2	1049.2	1049.2	1049.2	1049.2	1049.2
157.5°	1079.8	1079.9	1079.9	1080.1	1080.5	1080.9	1081.2	1081.6	1081.2	1080.9	1080.5
160°	1099.3	1099.5	1099.7	1099.9	1100.1	1100.3	1100.6	1100.7	1100.6	1100.3	1100.1
162.5°	1115.6	1115.7	1115.9	1116.3	1116.8	1117.4	1117.8	1118.4	1117.8	1117.4	1116.8
165°	1138.4	1138.8	1139.2	1139.7	1140.3	1140.9	1141.5	1142.2	1141.5	1140.9	1140.3
167.5°	1156.6	1156.6	1156.5	1157.0	1157.8	1158.6	1159.5	1160.4	1159.5	1158.6	1157.8
170°	1166.6	1166.4	1166.2	1166.6	1167.6	1168.6	1169.7	1170.7	1169.7	1168.6	1167.6
172.5°	1174.3	1174.3	1174.2	1174.6	1175.4	1176.3	1177.2	1178.1	1177.2	1176.3	1175.4
175°	1183.0	1183.3	1183.4	1184.1	1185.1	1186.1	1187.2	1188.2	1187.2	1186.1	1185.1
177.5°	1187.8	1187.8	1187.8	1188.2	1189.1	1189.9	1190.6	1191.5	1190.6	1189.9	1189.1
180°	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0



TEST NUMBER: P332890-927

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3
2.5°	456.9	455.4	453.5	451.2	448.5	446.2	445.0	446.0	446.5	445.2	445.0
5°	443.0	438.3	434.6	429.0	424.5	420.7	418.1	416.9	417.3	414.3	413.6
7.5°	427.4	421.8	415.7	409.0	402.8	397.3	394.4	392.8	389.6	388.2	386.0
10°	417.3	409.9	403.9	395.9	388.8	382.3	379.1	376.4	373.3	371.8	368.6
12.5°	407.0	398.3	391.7	383.5	376.2	368.4	365.3	360.4	355.5	352.3	348.2
15°	392.4	381.9	373.8	364.1	355.5	346.5	338.4	329.4	326.1	318.9	314.8
17.5°	375.3	364.7	354.7	341.7	328.4	317.1	308.6	299.9	294.8	290.3	288.1
20°	364.1	354.3	340.5	325.3	310.5	298.1	291.1	285.5	279.9	276.7	274.5
22.5°	353.5	341.0	324.9	308.5	293.7	284.0	278.1	272.4	267.8	264.7	261.7
25°	335.6	319.2	302.2	283.4	273.4	264.9	258.6	253.8	251.0	247.1	245.6
27.5°	317.3	297.5	278.7	266.1	255.6	247.8	242.2	238.8	235.2	232.7	230.7
30°	303.2	283.1	266.3	254.2	243.5	237.2	232.7	228.5	225.7	223.6	222.2
32.5°	289.2	269.2	255.0	242.1	233.6	227.4	222.6	219.5	217.3	214.7	213.7
35°	269.0	251.2	238.8	227.2	218.6	213.0	209.2	206.0	204.1	203.4	202.9
37.5°	249.6	235.0	221.7	212.2	204.5	200.1	195.7	194.1	192.8	191.5	192.1
40°	237.3	223.6	211.8	201.8	195.5	190.7	188.1	186.2	185.1	185.1	185.1
42.5°	226.7	213.3	201.8	192.7	186.6	182.4	179.5	177.9	177.5	177.4	178.3
45°	210.2	197.8	186.2	178.6	173.4	169.3	167.6	166.3	166.3	167.1	167.2
47.5°	193.8	182.2	172.9	164.5	159.6	157.1	155.6	155.0	155.0	155.7	156.6
50°	183.7	172.3	163.1	155.6	151.1	148.7	147.3	146.9	147.3	147.3	148.7
52.5°	172.8	162.6	153.5	147.2	142.1	139.8	139.1	138.6	138.8	139.4	140.0
55°	156.8	147.6	138.9	132.9	129.2	127.7	126.0	126.2	125.8	126.2	126.2
57.5°	140.6	132.4	124.4	119.6	116.3	114.2	112.3	112.8	112.3	112.2	111.9
60°	130.3	121.3	114.9	110.6	106.9	105.0	103.3	103.7	103.1	102.7	102.0
62.5°	119.1	111.5	105.4	101.3	98.3	96.2	94.4	94.1	92.8	91.5	89.8
65°	102.7	96.6	91.1	87.2	84.4	82.7	81.4	80.2	77.4	74.5	73.0
67.5°	86.9	82.4	77.3	74.0	71.7	69.6	67.0	65.1	62.5	60.8	59.9
70°	76.7	72.4	68.0	64.9	62.4	60.4	57.6	56.2	54.3	53.6	52.7
72.5°	66.9	62.9	58.9	56.0	53.5	51.8	49.6	48.3	47.5	47.1	46.3
75°	52.1	49.0	45.9	43.3	41.3	40.1	39.2	38.3	37.9	36.2	35.3
77.5°	38.0	35.9	34.1	32.2	30.7	29.9	28.1	27.1	26.5	25.7	25.4
80°	29.6	28.1	26.2	25.1	23.1	22.3	21.5	21.4	21.2	21.0	20.8
82.5°	22.3	20.8	18.9	18.2	17.7	17.2	16.8	16.6	16.4	16.5	16.5
85°	11.2	10.5	10.5	10.3	10.1	9.9	9.7	9.7	9.6	9.7	9.6
87.5°	6.1	6.3	6.7	6.7	7.2	7.5	7.6	7.8	8.2	8.2	8.3
90°	11.7	13.7	15.4	17.0	18.6	20.3	21.5	22.7	23.9	25.2	26.0
92.5°	30.0	31.8	33.0	34.1	35.3	36.4	37.2	37.9	38.7	39.4	39.8
95°	62.6	64.2	65.7	67.1	68.5	69.9	70.6	71.1	71.8	72.4	72.7
97.5°	102.3	103.9	105.6	107.3	108.9	110.6	111.4	112.1	112.8	113.6	113.9
100°	132.1	133.5	135.3	137.1	138.9	140.9	141.2	141.6	142.0	142.4	142.7
102.5°	164.1	165.0	166.7	168.4	170.1	171.7	172.3	172.9	173.5	174.0	174.4
105°	215.2	215.8	216.6	217.4	218.2	219.0	219.7	220.3	220.9	221.5	222.1
107.5°	269.7	269.9	270.1	270.1	270.3	270.4	271.0	271.6	272.1	272.7	273.0
110°	307.2	307.3	307.1	306.9	306.7	306.5	306.1	305.6	305.2	304.8	304.9



TEST NUMBER: P332890-927

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	344.2	344.0	343.6	343.3	342.9	342.5	342.5	342.4	342.3	342.2	342.2
115°	401.2	401.1	400.7	400.3	399.8	399.4	399.3	399.0	398.8	398.6	398.4
117.5°	456.1	456.0	455.7	455.4	455.1	454.9	454.2	453.4	452.7	452.0	451.5
120°	494.7	494.9	494.2	493.6	493.0	492.4	491.4	490.4	489.3	488.3	488.0
122.5°	530.4	530.4	530.0	529.8	529.5	529.2	528.5	527.8	527.1	526.4	525.7
125°	584.4	584.3	584.2	583.9	583.7	583.5	583.1	582.7	582.3	581.9	581.5
127.5°	637.2	637.3	636.9	636.6	636.3	636.0	635.6	635.2	634.8	634.3	634.0
130°	672.5	672.8	672.8	672.8	672.8	672.8	672.4	671.9	671.5	671.1	670.5
132.5°	707.9	708.1	707.9	707.7	707.6	707.4	706.9	706.5	706.2	705.8	705.4
135°	758.7	759.3	759.3	759.3	759.3	759.3	758.9	758.5	758.0	757.6	757.2
137.5°	807.9	808.4	808.7	809.1	809.4	809.7	809.2	808.7	808.1	807.6	807.4
140°	841.9	842.1	842.1	842.1	842.1	842.1	841.9	841.7	841.5	841.3	841.1
142.5°	873.6	873.7	873.5	873.4	873.2	873.1	873.0	873.0	872.9	872.9	872.8
145°	919.0	919.6	919.7	920.0	920.1	920.4	920.1	920.0	919.7	919.6	919.1
147.5°	963.1	963.5	963.4	963.2	963.1	962.9	962.7	962.6	962.4	962.2	962.0
150°	989.0	989.4	989.4	989.4	989.4	989.4	989.4	989.4	989.4	989.4	989.3
152.5°	1012.7	1013.0	1013.2	1013.4	1013.5	1013.7	1014.2	1014.6	1015.2	1015.7	1015.7
155°	1049.2	1049.1	1048.9	1048.7	1048.5	1048.3	1049.1	1050.0	1050.8	1051.5	1051.5
157.5°	1080.1	1079.9	1079.9	1079.8	1079.8	1079.7	1080.4	1081.0	1081.6	1082.2	1082.2
160°	1099.9	1099.7	1099.5	1099.3	1099.1	1098.9	1099.5	1100.1	1100.7	1101.4	1101.1
162.5°	1116.3	1115.9	1115.7	1115.6	1115.3	1115.1	1116.2	1117.3	1118.4	1119.5	1119.6
165°	1139.7	1139.2	1138.8	1138.4	1138.0	1137.6	1138.8	1140.0	1141.2	1142.5	1142.6
167.5°	1157.0	1156.5	1156.6	1156.6	1156.7	1156.7	1157.9	1159.1	1160.4	1161.6	1161.6
170°	1166.6	1166.2	1166.4	1166.6	1166.8	1167.0	1168.2	1169.5	1170.7	1172.0	1171.8
172.5°	1174.6	1174.2	1174.3	1174.3	1174.3	1174.4	1175.8	1177.2	1178.5	1180.0	1180.0
175°	1184.1	1183.4	1183.3	1183.0	1182.9	1182.6	1184.1	1185.5	1186.9	1188.4	1188.4
177.5°	1188.2	1187.8	1187.8	1187.8	1187.8	1187.8	1189.0	1190.1	1191.3	1192.4	1192.3
180°	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0



TEST NUMBER: P332890-927

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3
2.5°	444.2	444.5	443.5	443.1	443.5	444.5	444.2	445.0	445.2	446.5	446.0
5°	412.1	411.7	410.7	411.0	410.7	411.7	412.1	413.6	414.3	417.3	416.9
7.5°	384.6	383.2	383.6	382.1	383.6	383.2	384.6	386.0	388.2	389.6	392.8
10°	367.8	365.8	364.1	362.6	364.1	365.8	367.8	368.6	371.8	373.3	376.4
12.5°	344.9	343.1	340.9	341.3	340.9	343.1	344.9	348.2	352.3	355.5	360.4
15°	312.4	309.5	305.1	305.6	305.1	309.5	312.4	314.8	318.9	326.1	329.4
17.5°	284.8	284.8	282.7	283.3	282.7	284.8	284.8	288.1	290.3	294.8	299.9
20°	270.5	269.3	269.4	268.9	269.4	269.3	270.5	274.5	276.7	279.9	285.5
22.5°	260.6	259.0	257.7	256.6	257.7	259.0	260.6	261.7	264.7	267.8	272.4
25°	243.9	242.8	241.1	240.7	241.1	242.8	243.9	245.6	247.1	251.0	253.8
27.5°	229.2	229.0	228.3	227.4	228.3	229.0	229.2	230.7	232.7	235.2	238.8
30°	220.7	220.3	219.9	219.4	219.9	220.3	220.7	222.2	223.6	225.7	228.5
32.5°	213.0	212.8	212.4	212.5	212.4	212.8	213.0	213.7	214.7	217.3	219.5
35°	202.1	201.9	201.5	201.4	201.5	201.9	202.1	202.9	203.4	204.1	206.0
37.5°	191.9	192.4	192.2	192.1	192.2	192.4	191.9	192.1	191.5	192.8	194.1
40°	184.9	185.1	185.4	185.2	185.4	185.1	184.9	185.1	185.1	185.1	186.2
42.5°	179.0	179.0	179.6	179.0	179.6	179.0	179.0	178.3	177.4	177.5	177.9
45°	168.6	169.7	169.4	169.4	169.4	169.7	168.6	167.2	167.1	166.3	166.3
47.5°	157.1	158.1	158.4	158.3	158.4	158.1	157.1	156.6	155.7	155.0	155.0
50°	149.6	149.2	149.8	149.6	149.8	149.2	149.6	148.7	147.3	147.3	146.9
52.5°	140.5	140.5	140.5	140.3	140.5	140.5	140.5	140.0	139.4	138.8	138.6
55°	126.4	126.6	126.2	126.4	126.2	126.6	126.4	126.2	126.2	125.8	126.2
57.5°	111.1	110.2	110.5	110.1	110.5	110.2	111.1	111.9	112.2	112.3	112.8
60°	100.1	98.6	98.2	97.5	98.2	98.6	100.1	102.0	102.7	103.1	103.7
62.5°	87.9	86.7	85.5	86.1	85.5	86.7	87.9	89.8	91.5	92.8	94.1
65°	71.5	70.7	70.1	70.9	70.1	70.7	71.5	73.0	74.5	77.4	80.2
67.5°	59.1	58.7	58.7	58.4	58.7	58.7	59.1	59.9	60.8	62.5	65.1
70°	52.7	52.1	52.1	51.7	52.1	52.1	52.7	52.7	53.6	54.3	56.2
72.5°	46.1	45.6	45.7	45.5	45.7	45.6	46.1	46.3	47.1	47.5	48.3
75°	34.1	33.2	33.2	33.4	33.2	33.2	34.1	35.3	36.2	37.9	38.3
77.5°	25.4	25.3	25.5	25.2	25.5	25.3	25.4	25.4	25.7	26.5	27.1
80°	20.8	20.6	20.4	21.0	20.4	20.6	20.8	20.8	21.0	21.2	21.4
82.5°	16.2	16.2	16.1	16.8	16.1	16.2	16.2	16.5	16.5	16.4	16.6
85°	9.7	9.3	9.7	9.3	9.7	9.3	9.7	9.6	9.7	9.6	9.7
87.5°	8.7	8.6	8.6	8.8	8.6	8.6	8.7	8.3	8.2	8.2	7.8
90°	26.4	26.8	27.2	27.6	27.2	26.8	26.4	26.0	25.2	23.9	22.7
92.5°	40.2	40.4	40.6	40.9	40.6	40.4	40.2	39.8	39.4	38.7	37.9
95°	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.4	71.8	71.1
97.5°	113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.6	112.8	112.1
100°	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.4	142.0	141.6
102.5°	174.6	174.8	174.9	175.1	174.9	174.8	174.6	174.4	174.0	173.5	172.9
105°	222.8	223.3	223.9	224.6	223.9	223.3	222.8	222.1	221.5	220.9	220.3
107.5°	272.9	272.9	272.8	272.8	272.8	272.9	272.9	273.0	272.7	272.1	271.6
110°	305.5	306.2	306.8	307.4	306.8	306.2	305.5	304.9	304.8	305.2	305.6



TEST NUMBER: P332890-927

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	342.4	342.5	342.6	342.8	342.6	342.5	342.4	342.2	342.2	342.3	342.4
115°	398.2	398.0	397.8	397.6	397.8	398.0	398.2	398.4	398.6	398.8	399.0
117.5°	451.1	450.7	450.3	449.9	450.3	450.7	451.1	451.5	452.0	452.7	453.4
120°	488.4	488.8	489.3	489.6	489.3	488.8	488.4	488.0	488.3	489.3	490.4
122.5°	525.0	524.3	523.5	522.8	523.5	524.3	525.0	525.7	526.4	527.1	527.8
125°	581.1	580.7	580.2	579.8	580.2	580.7	581.1	581.5	581.9	582.3	582.7
127.5°	633.7	633.3	633.0	632.6	633.0	633.3	633.7	634.0	634.3	634.8	635.2
130°	669.7	668.9	668.0	667.3	668.0	668.9	669.7	670.5	671.1	671.5	671.9
132.5°	705.0	704.7	704.4	704.1	704.4	704.7	705.0	705.4	705.8	706.2	706.5
135°	756.5	755.9	755.3	754.7	755.3	755.9	756.5	757.2	757.6	758.0	758.5
137.5°	807.6	807.6	807.8	807.9	807.8	807.6	807.6	807.4	807.6	808.1	808.7
140°	840.9	840.7	840.5	840.3	840.5	840.7	840.9	841.1	841.3	841.5	841.7
142.5°	872.8	872.7	872.7	872.7	872.7	872.7	872.8	872.8	872.9	872.9	873.0
145°	918.5	917.9	917.3	916.7	917.3	917.9	918.5	919.1	919.6	919.7	920.0
147.5°	961.9	961.6	961.4	961.2	961.4	961.6	961.9	962.0	962.2	962.4	962.6
150°	989.0	988.9	988.6	988.5	988.6	988.9	989.0	989.3	989.4	989.4	989.4
152.5°	1015.1	1014.5	1014.0	1013.5	1014.0	1014.5	1015.1	1015.7	1015.7	1015.2	1014.6
155°	1050.8	1050.0	1049.1	1048.3	1049.1	1050.0	1050.8	1051.5	1051.5	1050.8	1050.0
157.5°	1081.5	1080.8	1080.1	1079.4	1080.1	1080.8	1081.5	1082.2	1082.2	1081.6	1081.0
160°	1100.1	1099.1	1098.1	1097.1	1098.1	1099.1	1100.1	1101.1	1101.4	1100.7	1100.1
162.5°	1118.6	1117.5	1116.5	1115.5	1116.5	1117.5	1118.6	1119.6	1119.5	1118.4	1117.3
165°	1141.9	1141.1	1140.2	1139.4	1140.2	1141.1	1141.9	1142.6	1142.5	1141.2	1140.0
167.5°	1160.3	1159.0	1157.8	1156.5	1157.8	1159.0	1160.3	1161.6	1161.6	1160.4	1159.1
170°	1170.4	1168.9	1167.5	1166.1	1167.5	1168.9	1170.4	1171.8	1172.0	1170.7	1169.5
172.5°	1178.5	1177.0	1175.6	1174.2	1175.6	1177.0	1178.5	1180.0	1180.0	1178.5	1177.2
175°	1186.9	1185.5	1184.1	1182.6	1184.1	1185.5	1186.9	1188.4	1188.4	1186.9	1185.5
177.5°	1191.0	1189.7	1188.4	1187.1	1188.4	1189.7	1191.0	1192.3	1192.4	1191.3	1190.1
180°	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0



TEST NUMBER: P332890-927

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3
2.5°	445.0	446.2	448.5	451.2	453.5	455.4	456.9	459.1	461.0	463.7	466.2
5°	418.1	420.7	424.5	429.0	434.6	438.3	443.0	447.2	453.1	459.1	464.9
7.5°	394.4	397.3	402.8	409.0	415.7	421.8	427.4	434.7	442.6	451.4	461.1
10°	379.1	382.3	388.8	395.9	403.9	409.9	417.3	426.0	435.0	445.7	457.6
12.5°	365.3	368.4	376.2	383.5	391.7	398.3	407.0	415.7	427.8	439.3	453.0
15°	338.4	346.5	355.5	364.1	373.8	381.9	392.4	401.4	412.8	429.1	444.7
17.5°	308.6	317.1	328.4	341.7	354.7	364.7	375.3	386.5	400.1	416.8	434.7
20°	291.1	298.1	310.5	325.3	340.5	354.3	364.1	376.4	390.5	408.5	427.1
22.5°	278.1	284.0	293.7	308.5	324.9	341.0	353.5	365.7	381.2	399.3	419.5
25°	258.6	264.9	273.4	283.4	302.2	319.2	335.6	349.7	366.1	384.1	406.6
27.5°	242.2	247.8	255.6	266.1	278.7	297.5	317.3	333.3	350.2	369.6	392.1
30°	232.7	237.2	243.5	254.2	266.3	283.1	303.2	321.9	339.0	359.0	382.5
32.5°	222.6	227.4	233.6	242.1	255.0	269.2	289.2	309.7	327.9	348.4	371.4
35°	209.2	213.0	218.6	227.2	238.8	251.2	269.0	290.3	309.3	331.3	353.2
37.5°	195.7	200.1	204.5	212.2	221.7	235.0	249.6	271.3	292.5	312.5	333.9
40°	188.1	190.7	195.5	201.8	211.8	223.6	237.3	258.6	279.7	299.6	321.2
42.5°	179.5	182.4	186.6	192.7	201.8	213.3	226.7	245.0	267.1	286.4	306.0
45°	167.6	169.3	173.4	178.6	186.2	197.8	210.2	226.5	247.3	265.7	282.9
47.5°	155.6	157.1	159.6	164.5	172.9	182.2	193.8	208.4	226.6	245.0	259.6
50°	147.3	148.7	151.1	155.6	163.1	172.3	183.7	196.9	213.2	230.8	243.0
52.5°	139.1	139.8	142.1	147.2	153.5	162.6	172.8	184.9	200.1	214.8	227.1
55°	126.0	127.7	129.2	132.9	138.9	147.6	156.8	168.2	180.0	192.3	202.9
57.5°	112.3	114.2	116.3	119.6	124.4	132.4	140.6	149.9	160.0	170.2	179.1
60°	103.3	105.0	106.9	110.6	114.9	121.3	130.3	138.4	146.1	155.4	164.2
62.5°	94.4	96.2	98.3	101.3	105.4	111.5	119.1	126.0	134.0	142.2	148.8
65°	81.4	82.7	84.4	87.2	91.1	96.6	102.7	108.2	115.3	121.3	127.3
67.5°	67.0	69.6	71.7	74.0	77.3	82.4	86.9	92.1	97.0	101.4	106.9
70°	57.6	60.4	62.4	64.9	68.0	72.4	76.7	80.2	84.2	88.5	93.4
72.5°	49.6	51.8	53.5	56.0	58.9	62.9	66.9	69.9	73.1	76.0	80.8
75°	39.2	40.1	41.3	43.3	45.9	49.0	52.1	54.7	56.6	59.3	62.6
77.5°	28.1	29.9	30.7	32.2	34.1	35.9	38.0	40.2	42.1	42.9	45.6
80°	21.5	22.3	23.1	25.1	26.2	28.1	29.6	31.7	32.4	33.4	35.8
82.5°	16.8	17.2	17.7	18.2	18.9	20.8	22.3	23.6	24.3	24.6	26.5
85°	9.7	9.9	10.1	10.3	10.5	10.5	11.2	12.2	13.5	13.5	14.1
87.5°	7.6	7.5	7.2	6.7	6.7	6.3	6.1	5.6	5.6	5.6	5.6
90°	21.5	20.3	18.6	17.0	15.4	13.7	11.7	9.5	7.3	5.0	2.8
92.5°	37.2	36.4	35.3	34.1	33.0	31.8	30.0	27.4	24.9	22.3	19.7
95°	70.6	69.9	68.5	67.1	65.7	64.2	62.6	60.8	58.9	57.0	55.2
97.5°	111.4	110.6	108.9	107.3	105.6	103.9	102.3	100.8	99.4	97.9	96.5
100°	141.2	140.9	138.9	137.1	135.3	133.5	132.1	131.3	130.5	129.7	128.9
102.5°	172.3	171.7	170.1	168.4	166.7	165.0	164.1	163.7	163.3	163.0	162.7
105°	219.7	219.0	218.2	217.4	216.6	215.8	215.2	215.1	214.8	214.7	214.4
107.5°	271.0	270.4	270.3	270.1	270.1	269.9	269.7	269.5	269.3	269.0	268.7
110°	306.1	306.5	306.7	306.9	307.1	307.3	307.2	306.8	306.3	305.9	305.5



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	342.5	342.5	342.9	343.3	343.6	344.0	344.2	344.1	344.0	344.0	343.8
115°	399.3	399.4	399.8	400.3	400.7	401.1	401.2	401.2	401.2	401.2	401.2
117.5°	454.2	454.9	455.1	455.4	455.7	456.0	456.1	455.9	455.7	455.6	455.4
120°	491.4	492.4	493.0	493.6	494.2	494.9	494.7	493.9	493.1	492.3	491.5
122.5°	528.5	529.2	529.5	529.8	530.0	530.4	530.4	530.0	529.7	529.3	529.0
125°	583.1	583.5	583.7	583.9	584.2	584.3	584.4	584.4	584.4	584.4	584.4
127.5°	635.6	636.0	636.3	636.6	636.9	637.3	637.2	636.5	635.9	635.3	634.7
130°	672.4	672.8	672.8	672.8	672.8	672.8	672.5	671.8	671.2	670.7	670.0
132.5°	706.9	707.4	707.6	707.7	707.9	708.1	707.9	707.4	707.0	706.5	706.1
135°	758.9	759.3	759.3	759.3	759.3	759.3	758.7	757.5	756.2	755.0	753.8
137.5°	809.2	809.7	809.4	809.1	808.7	808.4	807.9	807.4	806.8	806.3	805.6
140°	841.9	842.1	842.1	842.1	842.1	842.1	841.9	841.5	841.1	840.7	840.3
142.5°	873.0	873.1	873.2	873.4	873.5	873.7	873.6	873.1	872.7	872.4	872.0
145°	920.1	920.4	920.1	920.0	919.7	919.6	919.0	918.2	917.4	916.6	915.8
147.5°	962.7	962.9	963.1	963.2	963.4	963.5	963.1	962.1	961.2	960.2	959.2
150°	989.4	989.4	989.4	989.4	989.4	989.4	989.0	988.2	987.4	986.5	985.7
152.5°	1014.2	1013.7	1013.5	1013.4	1013.2	1013.0	1012.7	1012.2	1011.7	1011.2	1010.7
155°	1049.1	1048.3	1048.5	1048.7	1048.9	1049.1	1049.2	1049.2	1049.2	1049.2	1049.2
157.5°	1080.4	1079.7	1079.8	1079.8	1079.9	1079.9	1080.1	1080.5	1080.9	1081.2	1081.6
160°	1099.5	1098.9	1099.1	1099.3	1099.5	1099.7	1099.9	1100.1	1100.3	1100.6	1100.7
162.5°	1116.2	1115.1	1115.3	1115.6	1115.7	1115.9	1116.3	1116.8	1117.4	1117.8	1118.4
165°	1138.8	1137.6	1138.0	1138.4	1138.8	1139.2	1139.7	1140.3	1140.9	1141.5	1142.2
167.5°	1157.9	1156.7	1156.7	1156.6	1156.6	1156.5	1157.0	1157.8	1158.6	1159.5	1160.4
170°	1168.2	1167.0	1166.8	1166.6	1166.4	1166.2	1166.6	1167.6	1168.6	1169.7	1170.7
172.5°	1175.8	1174.4	1174.3	1174.3	1174.3	1174.2	1174.6	1175.4	1176.3	1177.2	1178.1
175°	1184.1	1182.6	1182.9	1183.0	1183.3	1183.4	1184.1	1185.1	1186.1	1187.2	1188.2
177.5°	1189.0	1187.8	1187.8	1187.8	1187.8	1187.8	1188.2	1189.1	1189.9	1190.6	1191.5
180°	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3	465.3
2.5°	468.2	469.5	471.0	473.9	476.3	477.4	479.4	480.9	480.5	482.6	486.2
5°	470.0	475.1	480.9	486.9	493.6	499.2	503.7	508.3	511.8	516.1	522.5
7.5°	469.7	478.7	488.5	499.2	510.3	519.9	528.7	537.7	545.7	554.4	565.9
10°	468.5	480.5	492.7	506.8	520.9	534.2	546.1	557.4	568.1	579.5	594.0
12.5°	467.1	480.9	495.7	512.6	530.1	546.1	560.2	576.5	589.9	604.6	621.2
15°	461.2	479.7	499.9	521.7	542.8	564.4	583.6	603.5	622.1	639.7	660.7
17.5°	454.4	475.8	499.5	525.4	550.6	576.8	599.8	624.8	643.7	667.4	686.9
20°	448.9	471.9	497.2	526.2	554.9	584.0	609.3	634.9	656.2	680.0	704.7
22.5°	442.1	467.4	494.8	524.9	554.9	586.7	614.7	640.1	666.5	693.3	718.8
25°	431.2	457.5	486.6	519.5	554.1	586.5	616.5	647.9	676.4	705.5	728.4
27.5°	417.9	445.4	476.0	510.1	545.5	578.7	614.0	647.6	676.3	704.3	724.2
30°	407.2	436.3	465.7	500.2	536.9	572.6	610.5	644.0	674.2	699.3	710.6
32.5°	396.2	423.8	454.2	489.1	526.7	565.1	602.6	637.0	664.9	679.9	680.2
35°	377.2	403.1	434.6	468.9	507.6	549.1	587.2	620.9	638.0	639.3	620.9
37.5°	356.5	380.2	409.9	444.3	486.6	528.0	566.8	589.3	595.0	575.9	542.0
40°	341.6	363.5	392.2	427.5	469.4	512.2	547.6	564.1	558.2	527.2	489.3
42.5°	326.0	346.4	374.1	408.8	451.0	494.2	524.4	533.2	517.4	481.6	437.3
45°	300.6	319.2	346.7	381.8	422.2	462.7	485.6	481.1	454.6	412.3	362.6
47.5°	274.0	292.2	316.8	349.2	390.7	425.6	441.1	427.5	389.9	343.3	302.9
50°	256.5	275.0	297.7	328.7	366.5	400.3	410.2	389.6	347.8	303.0	265.9
52.5°	239.2	255.1	277.3	307.2	343.4	371.9	377.2	353.5	310.3	270.1	237.2
55°	213.0	227.4	246.1	274.3	305.6	329.8	326.9	296.4	257.2	222.9	197.0
57.5°	187.6	198.4	215.8	242.2	269.7	285.9	275.6	249.5	213.0	184.9	163.1
60°	170.8	180.9	197.0	220.1	244.3	253.5	244.9	216.6	187.7	162.0	143.6
62.5°	154.9	163.8	177.7	199.1	218.6	224.1	214.8	190.1	164.1	142.2	127.0
65°	131.8	140.1	151.9	167.1	180.5	183.2	177.2	151.9	132.2	113.8	103.3
67.5°	110.8	116.2	125.5	138.6	145.8	147.3	135.7	119.8	102.4	91.2	83.3
70°	96.7	100.5	109.1	116.2	122.1	122.2	111.5	98.8	85.5	76.3	70.5
72.5°	83.1	86.7	93.2	98.1	102.6	101.1	91.3	81.3	70.5	63.5	59.3
75°	64.1	67.3	70.7	73.0	73.0	71.1	63.9	56.4	50.2	46.1	44.8
77.5°	46.6	49.2	50.4	50.0	49.4	46.4	41.9	37.0	34.8	32.9	31.8
80°	36.6	37.7	38.0	37.2	36.0	32.6	29.6	27.6	25.5	24.7	24.4
82.5°	27.1	28.1	27.1	27.4	24.9	22.1	20.4	19.7	18.9	18.6	18.2
85°	14.4	14.3	13.9	12.9	11.2	10.9	10.7	10.5	10.1	10.3	9.9
87.5°	5.9	5.9	5.8	6.1	6.5	6.5	7.0	7.3	7.7	7.8	8.3
90°	5.0	7.3	9.5	11.7	13.7	15.4	17.0	18.6	20.3	21.5	22.7
92.5°	22.3	24.9	27.4	30.0	31.8	33.0	34.1	35.3	36.4	37.2	37.9
95°	57.0	58.9	60.8	62.6	64.2	65.7	67.1	68.5	69.9	70.6	71.1
97.5°	97.9	99.4	100.8	102.3	103.9	105.6	107.3	108.9	110.6	111.4	112.1
100°	129.7	130.5	131.3	132.1	133.5	135.3	137.1	138.9	140.9	141.2	141.6
102.5°	163.0	163.3	163.7	164.1	165.0	166.7	168.4	170.1	171.7	172.3	172.9
105°	214.7	214.8	215.1	215.2	215.8	216.6	217.4	218.2	219.0	219.7	220.3
107.5°	269.0	269.3	269.5	269.7	269.9	270.1	270.1	270.3	270.4	271.0	271.6
110°	305.9	306.3	306.8	307.2	307.3	307.1	306.9	306.7	306.5	306.1	305.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	344.0	344.0	344.1	344.2	344.0	343.6	343.3	342.9	342.5	342.5	342.4
115°	401.2	401.2	401.2	401.2	401.1	400.7	400.3	399.8	399.4	399.3	399.0
117.5°	455.6	455.7	455.9	456.1	456.0	455.7	455.4	455.1	454.9	454.2	453.4
120°	492.3	493.1	493.9	494.7	494.9	494.2	493.6	493.0	492.4	491.4	490.4
122.5°	529.3	529.7	530.0	530.4	530.4	530.0	529.8	529.5	529.2	528.5	527.8
125°	584.4	584.4	584.4	584.4	584.3	584.2	583.9	583.7	583.5	583.1	582.7
127.5°	635.3	635.9	636.5	637.2	637.3	636.9	636.6	636.3	636.0	635.6	635.2
130°	670.7	671.2	671.8	672.5	672.8	672.8	672.8	672.8	672.8	672.4	671.9
132.5°	706.5	707.0	707.4	707.9	708.1	707.9	707.7	707.6	707.4	706.9	706.5
135°	755.0	756.2	757.5	758.7	759.3	759.3	759.3	759.3	759.3	758.9	758.5
137.5°	806.3	806.8	807.4	807.9	808.4	808.7	809.1	809.4	809.7	809.2	808.7
140°	840.7	841.1	841.5	841.9	842.1	842.1	842.1	842.1	842.1	841.9	841.7
142.5°	872.4	872.7	873.1	873.6	873.7	873.5	873.4	873.2	873.1	873.0	873.0
145°	916.6	917.4	918.2	919.0	919.6	919.7	920.0	920.1	920.4	920.1	920.0
147.5°	960.2	961.2	962.1	963.1	963.5	963.4	963.2	963.1	962.9	962.7	962.6
150°	986.5	987.4	988.2	989.0	989.4	989.4	989.4	989.4	989.4	989.4	989.4
152.5°	1011.2	1011.7	1012.2	1012.7	1013.0	1013.2	1013.4	1013.5	1013.7	1014.2	1014.6
155°	1049.2	1049.2	1049.2	1049.2	1049.1	1048.9	1048.7	1048.5	1048.3	1049.1	1050.0
157.5°	1081.2	1080.9	1080.5	1080.1	1079.9	1079.9	1079.8	1079.8	1079.7	1080.4	1081.0
160°	1100.6	1100.3	1100.1	1099.9	1099.7	1099.5	1099.3	1099.1	1098.9	1099.5	1100.1
162.5°	1117.8	1117.4	1116.8	1116.3	1115.9	1115.7	1115.6	1115.3	1115.1	1116.2	1117.3
165°	1141.5	1140.9	1140.3	1139.7	1139.2	1138.8	1138.4	1138.0	1137.6	1138.8	1140.0
167.5°	1159.5	1158.6	1157.8	1157.0	1156.5	1156.6	1156.6	1156.7	1156.7	1157.9	1159.1
170°	1169.7	1168.6	1167.6	1166.6	1166.2	1166.4	1166.6	1166.8	1167.0	1168.2	1169.5
172.5°	1177.2	1176.3	1175.4	1174.6	1174.2	1174.3	1174.3	1174.3	1174.4	1175.8	1177.2
175°	1187.2	1186.1	1185.1	1184.1	1183.4	1183.3	1183.0	1182.9	1182.6	1184.1	1185.5
177.5°	1190.6	1189.9	1189.1	1188.2	1187.8	1187.8	1187.8	1187.8	1187.8	1189.0	1190.1
180°	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	465.3	465.3	465.3	465.3	465.3	465.3	465.3
2.5°	488.1	488.7	489.2	490.7	490.8	492.2	490.8
5°	528.5	531.2	535.3	539.4	539.8	542.4	537.7
7.5°	573.8	579.9	583.7	590.3	592.9	594.6	591.9
10°	605.0	610.6	620.6	625.4	630.3	631.1	628.8
12.5°	635.2	644.0	651.9	661.2	660.9	667.5	665.1
15°	675.3	684.5	695.4	705.7	709.4	709.4	712.4
17.5°	703.9	720.8	732.1	740.1	749.0	750.5	749.5
20°	723.3	741.5	753.5	764.0	770.0	771.7	771.7
22.5°	737.7	753.2	764.9	774.4	779.3	781.3	780.7
25°	747.7	761.0	768.1	771.0	772.2	771.9	768.3
27.5°	734.0	733.4	729.0	720.3	713.8	709.9	705.4
30°	708.0	698.2	686.9	674.5	658.6	646.4	642.7
32.5°	669.1	647.2	628.1	607.5	590.4	578.2	573.1
35°	594.0	559.3	530.9	506.2	488.2	477.0	473.2
37.5°	504.8	471.2	436.2	412.2	397.2	385.9	381.7
40°	448.1	411.5	381.0	358.5	343.1	332.0	331.8
42.5°	396.3	361.4	332.6	316.5	299.9	292.6	292.6
45°	324.6	296.6	272.2	259.4	249.5	243.5	241.9
47.5°	268.7	245.6	229.3	219.2	211.1	207.3	204.8
50°	237.3	217.1	204.1	195.4	190.8	186.0	185.6
52.5°	211.3	194.9	184.8	177.7	172.0	169.1	169.1
55°	177.5	164.6	157.5	152.0	147.6	145.3	144.3
57.5°	149.6	139.9	134.7	129.7	127.8	126.0	125.6
60°	132.2	125.6	120.7	116.8	114.0	113.4	113.2
62.5°	117.8	110.9	107.6	104.5	102.4	101.6	101.2
65°	97.1	92.1	89.0	86.6	85.9	84.5	84.4
67.5°	78.3	75.3	73.3	71.6	70.6	70.5	70.5
70°	66.8	65.0	63.4	62.4	61.9	61.5	61.5
72.5°	56.9	55.6	54.2	53.7	53.6	53.2	53.1
75°	43.3	42.0	42.2	41.3	40.5	39.5	39.0
77.5°	30.7	29.8	29.5	29.5	28.8	28.8	29.0
80°	23.8	22.9	22.7	22.9	22.7	22.1	22.1
82.5°	18.1	17.3	17.1	17.0	16.9	17.0	16.7
85°	9.7	9.3	9.3	9.3	9.7	9.6	9.3
87.5°	8.2	8.3	8.6	8.6	8.6	8.6	8.8
90°	23.9	25.2	26.0	26.4	26.8	27.2	27.6
92.5°	38.7	39.4	39.8	40.2	40.4	40.6	40.9
95°	71.8	72.4	72.7	72.7	72.7	72.7	72.7
97.5°	112.8	113.6	113.9	113.9	113.9	113.9	113.9
100°	142.0	142.4	142.7	142.7	142.7	142.7	142.7
102.5°	173.5	174.0	174.4	174.6	174.8	174.9	175.1
105°	220.9	221.5	222.1	222.8	223.3	223.9	224.6
107.5°	272.1	272.7	273.0	272.9	272.9	272.8	272.8
110°	305.2	304.8	304.9	305.5	306.2	306.8	307.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	342.3	342.2	342.2	342.4	342.5	342.6	342.8
115°	398.8	398.6	398.4	398.2	398.0	397.8	397.6
117.5°	452.7	452.0	451.5	451.1	450.7	450.3	449.9
120°	489.3	488.3	488.0	488.4	488.8	489.3	489.6
122.5°	527.1	526.4	525.7	525.0	524.3	523.5	522.8
125°	582.3	581.9	581.5	581.1	580.7	580.2	579.8
127.5°	634.8	634.3	634.0	633.7	633.3	633.0	632.6
130°	671.5	671.1	670.5	669.7	668.9	668.0	667.3
132.5°	706.2	705.8	705.4	705.0	704.7	704.4	704.1
135°	758.0	757.6	757.2	756.5	755.9	755.3	754.7
137.5°	808.1	807.6	807.4	807.6	807.6	807.8	807.9
140°	841.5	841.3	841.1	840.9	840.7	840.5	840.3
142.5°	872.9	872.9	872.8	872.8	872.7	872.7	872.7
145°	919.7	919.6	919.1	918.5	917.9	917.3	916.7
147.5°	962.4	962.2	962.0	961.9	961.6	961.4	961.2
150°	989.4	989.4	989.3	989.0	988.9	988.6	988.5
152.5°	1015.2	1015.7	1015.7	1015.1	1014.5	1014.0	1013.5
155°	1050.8	1051.5	1051.5	1050.8	1050.0	1049.1	1048.3
157.5°	1081.6	1082.2	1082.2	1081.5	1080.8	1080.1	1079.4
160°	1100.7	1101.4	1101.1	1100.1	1099.1	1098.1	1097.1
162.5°	1118.4	1119.5	1119.6	1118.6	1117.5	1116.5	1115.5
165°	1141.2	1142.5	1142.6	1141.9	1141.1	1140.2	1139.4
167.5°	1160.4	1161.6	1161.6	1160.3	1159.0	1157.8	1156.5
170°	1170.7	1172.0	1171.8	1170.4	1168.9	1167.5	1166.1
172.5°	1178.5	1180.0	1180.0	1178.5	1177.0	1175.6	1174.2
175°	1186.9	1188.4	1188.4	1186.9	1185.5	1184.1	1182.6
177.5°	1191.3	1192.4	1192.3	1191.0	1189.7	1188.4	1187.1
180°	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0

(END OF REPORT)