

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: P332103-935

Luminaire Tested: **S123DIW-S340D1030U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332103-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIW-S340D1030U935-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1030 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4329.4 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

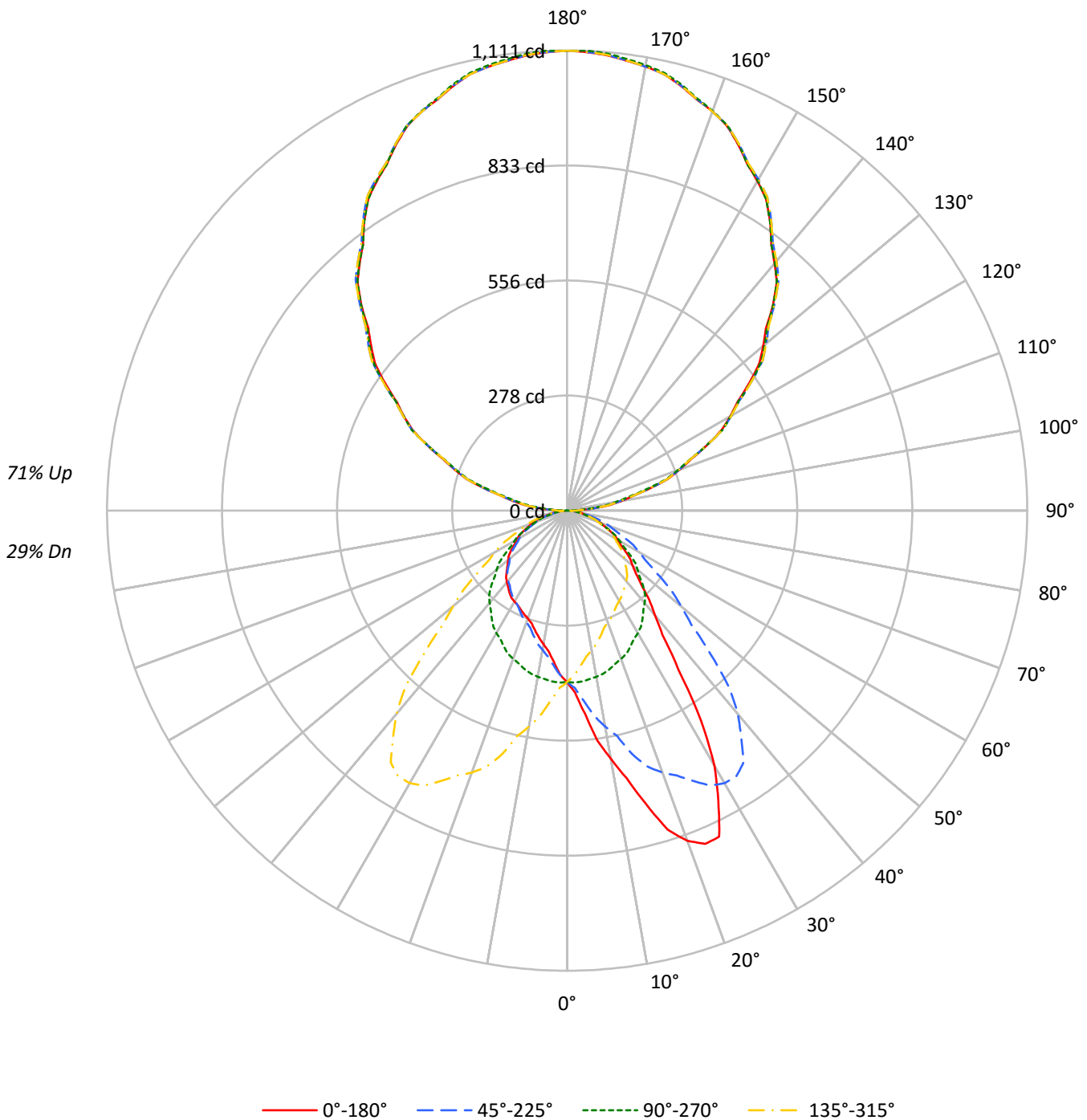
Input Watts (W): 38
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	102	102	102	102	91	91	91	91	72	72	72	53	53	53	37	37	37	29
1	93	89	85	82	83	80	77	74	63	61	59	47	46	45	33	32	31	25
2	85	78	72	67	76	70	65	61	55	52	49	42	39	37	29	28	27	21
3	78	69	62	56	69	62	56	51	49	45	41	37	34	32	26	24	23	18
4	71	61	53	47	63	55	48	43	43	39	35	33	30	27	23	21	20	15
5	65	54	46	40	58	49	42	37	39	34	30	29	26	24	21	19	17	13
6	60	48	40	35	53	44	37	32	35	30	26	27	23	21	19	17	15	12
7	55	43	36	30	49	39	33	28	31	27	23	24	21	18	17	15	13	11
8	51	39	32	27	46	36	29	25	29	24	20	22	19	16	16	14	12	9
9	47	36	29	24	43	32	26	22	26	21	18	20	17	14	15	12	11	8
10	44	33	26	21	40	30	24	19	24	19	16	19	15	13	13	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4456	4456	4456	4456
5°	5314	4475	3965	4475
10°	6652	4453	3583	4453
15°	8158	4416	3335	4416
20°	9718	4361	3175	4361
25°	10320	4292	3139	4292
30°	8846	4243	3156	4243
35°	6151	4172	3189	4172
40°	4634	4089	3180	4089
45°	3847	3965	3139	3965
50°	3446	3716	3110	3716
55°	3222	3445	3072	3445
60°	3023	3160	3040	3160
65°	2840	2881	2942	2881
70°	2662	2565	2801	2565
75°	2383	2246	2570	2246
80°	2089	1841	2213	1841
85°	1643	1334	1494	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.8	0.9
10°-20°	130.8	3.0
20°-30°	219.5	5.1
30°-40°	248.5	5.7
40°-50°	222.9	5.1
50°-60°	179.8	4.2
60°-70°	125.3	2.9
70°-80°	65.9	1.5
80°-90°	19.4	0.4
90°-100°	72.4	1.7
100°-110°	216.5	5.0
110°-120°	368.3	8.5
120°-130°	484.4	11.2
130°-140°	544.4	12.6
140°-150°	535.2	12.4
150°-160°	450.5	10.4
160°-170°	299.9	6.9
170°-180°	105.0	2.4
0°-30°	391.0	9.0
0°-40°	639.5	14.8
0°-60°	1042.2	24.1
0°-90°	1252.8	28.9
90°-120°	657.1	15.2
90°-150°	2221.1	51.3
90°-180°	3077.0	71.1
0°-180°	4329.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	414	414	414	414	414	
5°	492	414	367	414	492	51
15°	732	396	299	396	732	211
25°	869	361	264	361	869	381
35°	468	318	243	318	468	304
45°	253	260	206	260	253	200
55°	172	184	164	184	172	154
65°	112	113	116	113	112	111
75°	57	54	62	54	57	61
85°	13	11	12	11	13	16
90°	26	1	26	1	26	13
95°	68	52	68	52	68	70
105°	208	196	208	196	208	220
115°	372	371	372	371	372	368
125°	536	543	536	543	536	480
135°	703	704	703	704	703	541
145°	854	854	854	854	854	533
155°	976	978	976	978	976	449
165°	1062	1065	1062	1065	1062	299
175°	1104	1108	1104	1108	1104	105
180°	1110	1110	1110	1110	1110	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	439.4	439.0	438.2	438.9	437.6	435.8	435.7	434.0	429.4	429.1	427.8
5°	491.8	490.3	490.0	489.8	487.0	483.2	476.0	475.4	465.7	461.0	455.1
7.5°	559.8	560.6	557.7	555.2	546.6	540.9	533.1	523.2	511.4	499.4	491.5
10°	608.6	615.2	607.0	601.3	596.2	586.3	574.9	560.6	546.4	529.8	517.1
12.5°	660.9	664.1	662.5	657.2	649.1	634.1	613.9	598.1	585.0	557.3	546.1
15°	732.1	744.3	736.5	718.5	718.8	704.6	678.2	649.1	633.6	609.3	576.3
17.5°	808.0	809.5	806.2	791.2	781.2	761.6	737.1	709.3	678.0	648.6	613.5
20°	848.4	847.2	840.2	832.4	815.2	800.0	773.3	742.2	702.1	673.1	634.8
22.5°	870.9	868.9	865.6	859.0	844.7	828.4	804.3	770.4	732.2	692.4	648.2
25°	868.9	871.5	871.9	870.1	865.1	855.3	836.5	809.3	771.3	720.1	674.0
27.5°	790.3	794.0	804.7	814.2	824.8	835.7	834.2	820.8	792.6	748.4	692.0
30°	711.7	703.6	723.5	748.6	765.6	795.7	812.5	813.6	797.7	759.8	704.8
32.5°	602.5	611.4	620.2	651.0	688.3	722.0	755.6	782.6	785.7	760.4	712.4
35°	468.1	479.2	495.2	511.3	551.4	585.9	644.9	696.2	737.1	742.5	713.1
37.5°	377.3	382.7	392.9	409.0	435.1	476.1	521.7	586.6	645.9	690.0	691.9
40°	329.8	331.4	342.8	355.0	376.3	410.0	451.1	508.5	579.5	641.1	666.8
42.5°	294.1	297.6	302.6	314.3	331.2	356.5	394.8	442.2	507.3	578.2	628.4
45°	252.7	256.8	259.8	267.6	279.7	296.7	323.3	366.7	416.2	489.4	557.0
47.5°	225.4	225.7	227.9	233.8	242.0	254.9	273.7	301.5	347.0	406.4	475.8
50°	205.8	209.0	209.8	214.4	220.8	230.2	245.9	269.6	306.9	359.0	422.8
52.5°	192.0	193.0	195.2	198.5	204.1	211.5	225.1	243.6	272.9	317.4	376.0
55°	171.7	171.7	173.9	176.5	179.7	186.3	195.4	209.0	231.3	265.8	314.4
57.5°	152.9	153.9	155.5	156.3	159.0	163.4	170.9	181.3	197.9	224.5	263.0
60°	140.4	142.2	142.0	143.6	146.0	149.5	155.8	164.3	179.1	200.4	232.9
62.5°	129.5	129.4	129.3	131.3	133.6	136.9	141.1	148.4	161.0	179.9	207.5
65°	111.5	111.2	112.5	113.7	114.5	116.9	120.1	126.6	135.0	149.0	170.5
67.5°	95.6	94.4	95.1	95.6	96.9	98.8	101.9	105.8	112.4	123.7	139.9
70°	84.6	83.6	83.4	83.9	85.1	86.4	88.7	92.5	98.7	107.7	119.5
72.5°	73.4	72.8	72.7	73.6	74.1	75.1	76.6	80.1	85.1	91.9	102.9
75°	57.3	57.3	57.3	57.6	58.2	59.0	60.2	62.0	65.8	70.6	78.0
77.5°	43.0	43.0	42.7	42.7	43.6	43.9	44.2	45.9	48.0	51.2	56.7
80°	33.7	32.7	33.1	33.7	34.1	34.3	34.9	35.3	37.1	38.9	42.7
82.5°	25.1	24.2	24.3	25.2	25.3	25.5	26.1	26.6	27.3	28.9	31.0
85°	13.3	13.3	13.4	13.4	13.6	13.4	14.0	14.2	14.2	15.2	16.4
87.5°	10.1	9.6	9.7	9.8	9.6	9.6	9.6	9.6	9.6	9.6	9.3
90°	26.2	25.7	25.4	25.0	24.6	24.0	23.2	22.5	21.7	20.9	18.4
92.5°	35.2	35.5	35.7	35.9	36.2	36.0	35.4	34.7	34.1	33.5	32.0
95°	68.0	68.0	68.0	68.0	68.0	67.7	66.9	66.1	65.3	64.6	63.0
97.5°	104.7	104.8	104.9	104.9	105.0	104.6	103.7	102.8	101.9	101.0	99.9
100°	132.6	132.2	131.8	131.4	131.0	130.5	130.0	129.4	128.8	128.2	127.3
102.5°	161.2	161.3	161.4	161.4	161.5	161.3	160.7	160.1	159.5	158.9	157.6
105°	207.6	207.2	206.8	206.5	206.0	205.9	205.9	205.9	205.9	205.9	204.1
107.5°	255.9	256.1	256.4	256.7	256.8	256.7	256.1	255.5	254.8	254.2	253.5
110°	288.7	289.1	289.5	289.9	290.2	290.1	289.3	288.5	287.7	287.0	286.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	323.6	323.7	323.7	323.8	323.9	323.5	322.5	321.7	320.7	319.8	319.7
115°	371.6	371.8	372.0	372.2	372.4	372.4	372.2	372.0	371.8	371.6	372.0
117.5°	420.3	420.8	421.4	421.9	422.4	422.8	422.8	422.8	422.8	422.9	423.4
120°	454.4	454.9	455.2	455.6	456.0	456.3	456.5	456.7	456.8	457.1	458.1
122.5°	487.2	487.8	488.4	488.9	489.4	490.0	490.4	490.9	491.5	492.0	492.5
125°	536.5	537.3	538.0	538.8	539.6	540.4	541.1	541.9	542.7	543.5	543.8
127.5°	585.5	586.3	587.3	588.1	589.0	590.0	591.2	592.2	593.3	594.3	594.8
130°	617.6	619.0	620.3	621.6	623.0	624.1	624.8	625.6	626.4	627.2	627.8
132.5°	651.1	652.1	653.2	654.2	655.3	656.3	657.2	658.1	659.0	660.0	660.4
135°	703.1	703.4	703.9	704.2	704.6	705.2	705.9	706.7	707.5	708.3	708.5
137.5°	749.0	749.7	750.4	751.1	751.9	752.7	753.5	754.3	755.1	756.0	755.4
140°	778.9	780.3	781.7	783.0	784.4	785.1	785.3	785.6	785.7	785.9	785.7
142.5°	809.7	810.7	811.8	812.8	813.8	814.5	814.7	814.9	815.0	815.3	814.9
145°	853.9	854.7	855.5	856.3	857.0	857.6	857.7	858.0	858.2	858.3	857.7
147.5°	893.4	894.6	895.7	896.9	898.0	898.6	898.6	898.6	898.6	898.6	898.1
150°	918.5	919.7	920.8	922.0	923.2	923.8	923.8	923.8	923.8	923.8	923.3
152.5°	943.0	943.9	944.9	946.0	947.0	947.4	947.0	946.7	946.4	946.1	945.9
155°	976.1	977.5	978.8	980.2	981.5	981.8	981.0	980.2	979.5	978.7	978.5
157.5°	1006.3	1007.4	1008.5	1009.5	1010.6	1010.7	1010.0	1009.1	1008.3	1007.5	1007.4
160°	1025.8	1026.6	1027.3	1028.1	1028.9	1028.8	1027.9	1026.9	1025.9	1024.9	1024.9
162.5°	1040.4	1041.7	1042.9	1044.2	1045.4	1045.6	1044.6	1043.6	1042.7	1041.7	1041.6
165°	1061.6	1062.9	1064.3	1065.7	1067.0	1067.1	1065.9	1064.8	1063.6	1062.5	1062.5
167.5°	1079.5	1080.7	1081.9	1083.1	1084.3	1084.3	1083.1	1081.9	1080.7	1079.5	1079.4
170°	1088.6	1089.9	1091.3	1092.7	1094.1	1094.1	1092.7	1091.3	1089.9	1088.6	1088.6
172.5°	1095.6	1096.9	1098.3	1099.7	1101.0	1101.1	1099.9	1098.7	1097.5	1096.3	1096.3
175°	1103.5	1104.8	1106.1	1107.5	1108.9	1109.0	1107.8	1106.6	1105.5	1104.3	1104.3
177.5°	1107.7	1108.7	1109.8	1110.9	1112.0	1112.1	1111.1	1110.2	1109.2	1108.4	1108.4
180°	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	426.8	425.6	424.3	422.1	420.1	417.4	416.6	415.6	412.7	410.2	408.2
5°	452.9	448.1	441.1	434.6	429.5	422.4	418.4	414.2	408.2	402.8	398.4
7.5°	480.2	470.7	459.8	448.1	437.0	426.5	417.9	410.3	401.8	393.9	387.6
10°	501.9	488.2	472.9	456.5	442.5	428.9	417.4	407.4	396.6	387.1	379.3
12.5°	526.6	506.4	485.3	465.4	448.8	429.8	415.9	403.2	390.9	379.6	370.8
15°	555.8	530.1	505.2	477.8	452.5	428.9	412.4	396.3	382.1	370.5	359.2
17.5°	582.5	553.4	520.6	487.2	456.7	428.6	405.6	387.4	369.6	355.4	344.2
20°	597.5	564.5	527.4	492.7	458.9	427.7	402.3	380.7	361.4	346.4	333.8
22.5°	610.5	571.8	533.4	496.3	458.7	425.1	396.4	374.1	353.3	338.5	325.1
25°	624.1	577.6	539.2	495.7	453.7	418.8	386.8	361.4	340.6	323.3	309.5
27.5°	635.6	577.3	531.6	484.7	445.7	410.8	376.5	349.4	327.3	308.5	294.5
30°	643.3	578.1	523.7	477.4	438.1	402.0	368.7	341.4	318.1	299.1	285.9
32.5°	648.1	577.6	516.5	467.1	425.9	393.9	360.2	331.9	308.0	289.3	276.6
35°	650.9	574.0	504.0	445.9	406.2	375.1	346.8	317.5	292.5	275.0	260.5
37.5°	645.2	566.6	489.7	425.4	381.9	351.4	327.5	302.6	278.6	259.4	246.9
40°	636.5	561.8	478.4	411.0	365.2	335.8	315.6	291.0	267.3	249.1	237.5
42.5°	619.6	552.1	466.1	394.9	347.9	318.5	299.8	279.3	256.9	239.8	228.2
45°	578.5	530.7	447.5	370.9	322.4	291.9	275.4	260.5	240.3	223.7	213.6
47.5°	521.4	498.7	420.7	345.5	295.6	266.3	249.2	237.3	222.5	209.0	199.4
50°	481.8	472.3	402.6	328.1	277.8	249.1	232.6	221.9	211.2	197.8	189.0
52.5°	436.1	441.9	381.4	310.2	259.7	231.4	216.0	207.4	197.8	186.7	179.0
55°	371.7	392.7	344.8	280.0	232.6	205.8	191.1	183.6	177.9	169.7	163.1
57.5°	311.4	338.2	305.2	248.9	206.1	183.0	168.9	160.7	157.0	152.7	147.5
60°	275.6	302.0	277.0	228.1	188.4	166.3	153.9	146.8	143.2	140.2	135.8
62.5°	243.7	270.4	249.4	206.9	170.8	150.4	139.6	132.7	129.9	128.4	124.6
65°	199.8	222.8	208.8	173.9	145.9	127.8	118.0	113.1	110.6	109.9	107.5
67.5°	162.6	180.1	170.0	144.2	122.2	106.6	98.2	94.1	92.1	91.9	90.1
70°	138.2	154.6	146.8	123.6	104.5	92.3	85.1	81.5	80.2	80.1	79.0
72.5°	119.2	130.7	124.5	105.1	90.4	79.3	74.0	70.2	68.9	69.1	68.4
75°	88.3	96.9	93.2	79.8	68.0	60.8	56.4	54.0	52.8	53.4	52.5
77.5°	63.5	69.0	65.7	56.4	49.1	43.9	40.6	39.2	38.1	38.1	37.7
80°	48.0	51.1	49.3	43.7	37.7	33.3	30.7	29.7	29.1	28.8	28.7
82.5°	34.2	36.9	34.7	30.9	26.8	24.1	22.6	21.4	20.9	21.0	20.8
85°	17.2	18.3	17.5	15.1	13.4	12.2	11.5	10.8	10.4	10.6	10.2
87.5°	9.1	8.8	7.7	6.7	6.0	5.1	4.7	4.0	4.1	4.5	4.7
90°	15.9	13.3	10.8	8.6	6.7	4.7	2.8	0.9	2.8	4.7	6.7
92.5°	30.7	29.2	27.7	26.3	25.1	23.8	22.4	21.1	22.4	23.8	25.1
95°	61.5	59.9	58.4	56.9	55.5	54.2	52.8	51.5	52.8	54.2	55.5
97.5°	98.8	97.6	96.5	95.5	94.5	93.4	92.4	91.4	92.4	93.4	94.5
100°	126.3	125.4	124.3	123.3	122.1	121.0	119.8	118.6	119.8	121.0	122.1
102.5°	156.4	155.1	153.8	152.8	152.1	151.4	150.8	150.1	150.8	151.4	152.1
105°	202.3	200.6	198.9	197.9	197.4	197.1	196.7	196.3	196.7	197.1	197.4
107.5°	252.8	252.1	251.4	250.9	250.7	250.5	250.2	250.0	250.2	250.5	250.7
110°	286.2	285.9	285.4	285.1	284.6	284.3	283.9	283.5	283.9	284.3	284.6



TEST NUMBER: P332103-935

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	319.6	319.5	319.4	319.3	319.1	318.8	318.7	318.4	318.7	318.8	319.1
115°	372.4	372.7	373.2	373.1	372.5	371.9	371.3	370.7	371.3	371.9	372.5
117.5°	423.9	424.4	424.9	425.0	424.6	424.2	423.8	423.4	423.8	424.2	424.6
120°	459.0	459.9	461.0	460.9	459.7	458.6	457.4	456.2	457.4	458.6	459.7
122.5°	493.0	493.5	494.0	493.8	492.9	492.1	491.3	490.4	491.3	492.1	492.9
125°	544.2	544.6	545.0	544.9	544.3	543.7	543.1	542.6	543.1	543.7	544.3
127.5°	595.2	595.6	596.1	595.6	594.4	593.2	591.9	590.7	591.9	593.2	594.4
130°	628.4	629.0	629.5	629.0	627.5	625.9	624.4	622.8	624.4	625.9	627.5
132.5°	660.8	661.2	661.7	661.2	659.6	658.0	656.4	654.9	656.4	658.0	659.6
135°	708.7	708.9	709.0	708.6	707.4	706.3	705.1	704.0	705.1	706.3	707.4
137.5°	754.9	754.4	753.9	753.2	752.2	751.2	750.3	749.3	750.3	751.2	752.2
140°	785.6	785.3	785.1	784.5	783.6	782.6	781.7	780.7	781.7	782.6	783.6
142.5°	814.5	814.2	813.8	813.2	812.2	811.2	810.3	809.3	810.3	811.2	812.2
145°	857.2	856.6	856.0	855.5	855.1	854.7	854.4	853.9	854.4	854.7	855.1
147.5°	897.6	897.0	896.5	895.9	895.2	894.4	893.7	893.0	893.7	894.4	895.2
150°	923.0	922.6	922.2	921.8	921.4	921.0	920.7	920.2	920.7	921.0	921.4
152.5°	945.6	945.4	945.1	944.8	944.3	943.7	943.1	942.6	943.1	943.7	944.3
155°	978.4	978.1	977.9	977.8	977.8	977.8	977.8	977.8	977.8	977.8	977.8
157.5°	1007.2	1007.0	1006.9	1006.9	1007.1	1007.4	1007.6	1007.9	1007.6	1007.4	1007.1
160°	1024.9	1024.9	1024.9	1025.1	1025.5	1025.9	1026.3	1026.7	1026.3	1025.9	1025.5
162.5°	1041.4	1041.2	1041.0	1041.3	1041.8	1042.3	1042.9	1043.4	1042.9	1042.3	1041.8
165°	1062.5	1062.5	1062.5	1062.7	1063.3	1063.9	1064.5	1065.1	1064.5	1063.9	1063.3
167.5°	1079.3	1079.1	1078.9	1079.3	1080.0	1080.8	1081.6	1082.4	1081.6	1080.8	1080.0
170°	1088.6	1088.6	1088.6	1089.0	1089.8	1090.5	1091.3	1092.1	1091.3	1090.5	1089.8
172.5°	1096.3	1096.3	1096.3	1096.7	1097.4	1098.2	1099.0	1099.8	1099.0	1098.2	1097.4
175°	1104.3	1104.3	1104.3	1104.7	1105.5	1106.3	1107.1	1107.8	1107.1	1106.3	1105.5
177.5°	1108.4	1108.4	1108.4	1108.6	1109.2	1109.9	1110.5	1111.1	1110.5	1109.9	1109.2
180°	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4



TEST NUMBER: P332103-935

CATALOG NUMBER: S123DIW-S340D1030U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	407.1	406.0	404.4	402.0	400.0	397.0	397.0	397.4	397.4	397.4	397.0
5°	394.8	391.8	388.1	383.9	379.5	375.1	374.3	372.6	371.5	370.7	369.7
7.5°	381.7	376.3	371.1	365.2	359.8	355.4	352.3	349.7	348.1	346.3	345.0
10°	372.9	366.3	360.1	353.9	347.0	341.6	338.2	335.8	334.0	332.3	331.6
12.5°	362.5	354.9	348.0	342.1	334.7	329.1	325.8	324.7	322.6	319.2	317.5
15°	347.2	340.2	332.0	323.0	319.3	312.5	308.7	306.9	305.7	303.1	302.3
17.5°	334.2	325.0	315.7	309.0	302.3	296.8	294.6	292.4	290.8	288.7	288.0
20°	323.7	315.6	307.1	299.9	292.8	286.8	285.0	283.4	281.8	280.9	280.0
22.5°	313.1	305.0	297.9	291.2	283.7	279.7	277.8	276.0	274.9	274.2	273.5
25°	298.3	291.0	283.2	277.2	271.2	268.5	267.3	266.4	265.5	264.6	264.3
27.5°	285.0	277.1	270.8	265.1	260.8	258.6	257.4	257.0	257.2	257.5	257.8
30°	275.0	267.8	262.6	257.8	253.7	251.8	251.5	251.5	252.4	252.5	253.0
32.5°	265.9	259.9	254.7	250.0	247.0	245.6	246.4	246.4	247.0	247.5	248.3
35°	252.5	247.3	243.3	239.3	236.7	237.3	237.7	238.1	239.1	240.3	241.1
37.5°	239.8	235.3	231.1	228.0	226.8	227.8	228.9	229.6	230.8	231.8	232.6
40°	230.7	227.2	223.3	220.4	220.8	221.4	222.2	223.3	224.3	224.9	225.7
42.5°	222.1	218.6	215.5	213.2	213.8	214.6	215.0	215.5	216.7	217.8	218.3
45°	209.2	206.4	203.6	202.2	202.6	203.0	203.4	204.0	205.0	205.8	206.0
47.5°	194.7	192.7	190.8	189.4	190.1	189.9	190.5	191.7	192.0	192.5	193.6
50°	185.4	183.6	181.3	180.9	180.9	180.9	181.2	182.7	182.7	183.6	184.3
52.5°	175.0	173.9	172.5	171.8	171.4	171.4	172.3	173.1	173.4	174.5	175.4
55°	159.9	158.7	157.5	156.9	156.4	156.9	158.4	158.9	159.9	160.5	161.1
57.5°	144.0	143.1	142.2	141.8	141.7	142.2	143.1	144.3	144.6	146.5	147.3
60°	133.6	132.2	131.4	131.4	131.0	132.8	132.4	134.4	134.8	136.0	137.4
62.5°	122.9	121.0	120.6	120.6	121.2	121.7	122.3	123.1	124.2	125.7	126.8
65°	105.5	104.5	105.9	105.7	105.3	106.5	106.5	107.5	108.7	110.1	112.4
67.5°	89.1	88.6	88.7	88.7	89.3	90.0	90.6	91.4	92.9	94.4	95.8
70°	78.0	78.6	77.7	78.4	79.0	79.2	79.6	80.8	82.4	83.4	85.1
72.5°	67.2	67.2	67.3	67.7	68.3	68.6	69.1	70.4	72.2	73.0	74.3
75°	51.7	51.6	52.2	52.2	53.1	53.6	54.0	54.6	56.1	57.3	58.4
77.5°	37.8	38.1	37.9	38.6	38.3	38.4	39.6	40.2	40.4	42.8	43.3
80°	28.5	28.8	29.1	29.3	29.4	29.1	30.5	31.1	31.1	32.5	33.5
82.5°	20.5	20.7	21.2	21.4	21.4	21.9	22.0	22.4	22.9	23.5	24.8
85°	10.2	10.8	11.0	10.8	11.0	10.6	11.2	11.5	11.6	11.6	11.6
87.5°	4.9	5.5	5.9	6.5	6.9	7.6	7.7	7.6	7.7	8.4	7.8
90°	8.6	10.8	13.3	15.9	18.4	20.9	21.7	22.5	23.2	24.0	24.6
92.5°	26.3	27.7	29.2	30.7	32.0	33.5	34.1	34.7	35.4	36.0	36.2
95°	56.9	58.4	59.9	61.5	63.0	64.6	65.3	66.1	66.9	67.7	68.0
97.5°	95.5	96.5	97.6	98.8	99.9	101.0	101.9	102.8	103.7	104.6	105.0
100°	123.3	124.3	125.4	126.3	127.3	128.2	128.8	129.4	130.0	130.5	131.0
102.5°	152.8	153.8	155.1	156.4	157.6	158.9	159.5	160.1	160.7	161.3	161.5
105°	197.9	198.9	200.6	202.3	204.1	205.9	205.9	205.9	205.9	205.9	206.0
107.5°	250.9	251.4	252.1	252.8	253.5	254.2	254.8	255.5	256.1	256.7	256.8
110°	285.1	285.4	285.9	286.2	286.6	287.0	287.7	288.5	289.3	290.1	290.2



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	319.3	319.4	319.5	319.6	319.7	319.8	320.7	321.7	322.5	323.5	323.9
115°	373.1	373.2	372.7	372.4	372.0	371.6	371.8	372.0	372.2	372.4	372.4
117.5°	425.0	424.9	424.4	423.9	423.4	422.9	422.8	422.8	422.8	422.8	422.4
120°	460.9	461.0	459.9	459.0	458.1	457.1	456.8	456.7	456.5	456.3	456.0
122.5°	493.8	494.0	493.5	493.0	492.5	492.0	491.5	490.9	490.4	490.0	489.4
125°	544.9	545.0	544.6	544.2	543.8	543.5	542.7	541.9	541.1	540.4	539.6
127.5°	595.6	596.1	595.6	595.2	594.8	594.3	593.3	592.2	591.2	590.0	589.0
130°	629.0	629.5	629.0	628.4	627.8	627.2	626.4	625.6	624.8	624.1	623.0
132.5°	661.2	661.7	661.2	660.8	660.4	660.0	659.0	658.1	657.2	656.3	655.3
135°	708.6	709.0	708.9	708.7	708.5	708.3	707.5	706.7	705.9	705.2	704.6
137.5°	753.2	753.9	754.4	754.9	755.4	756.0	755.1	754.3	753.5	752.7	751.9
140°	784.5	785.1	785.3	785.6	785.7	785.9	785.7	785.6	785.3	785.1	784.4
142.5°	813.2	813.8	814.2	814.5	814.9	815.3	815.0	814.9	814.7	814.5	813.8
145°	855.5	856.0	856.6	857.2	857.7	858.3	858.2	858.0	857.7	857.6	857.0
147.5°	895.9	896.5	897.0	897.6	898.1	898.6	898.6	898.6	898.6	898.6	898.0
150°	921.8	922.2	922.6	923.0	923.3	923.8	923.8	923.8	923.8	923.8	923.2
152.5°	944.8	945.1	945.4	945.6	945.9	946.1	946.4	946.7	947.0	947.4	947.0
155°	977.8	977.9	978.1	978.4	978.5	978.7	979.5	980.2	981.0	981.8	981.5
157.5°	1006.9	1006.9	1007.0	1007.2	1007.4	1007.5	1008.3	1009.1	1010.0	1010.7	1010.6
160°	1025.1	1024.9	1024.9	1024.9	1024.9	1024.9	1025.9	1026.9	1027.9	1028.8	1028.9
162.5°	1041.3	1041.0	1041.2	1041.4	1041.6	1041.7	1042.7	1043.6	1044.6	1045.6	1045.4
165°	1062.7	1062.5	1062.5	1062.5	1062.5	1062.5	1063.6	1064.8	1065.9	1067.1	1067.0
167.5°	1079.3	1078.9	1079.1	1079.3	1079.4	1079.5	1080.7	1081.9	1083.1	1084.3	1084.3
170°	1089.0	1088.6	1088.6	1088.6	1088.6	1088.6	1089.9	1091.3	1092.7	1094.1	1094.1
172.5°	1096.7	1096.3	1096.3	1096.3	1096.3	1096.3	1097.5	1098.7	1099.9	1101.1	1101.0
175°	1104.7	1104.3	1104.3	1104.3	1104.3	1104.3	1105.5	1106.6	1107.8	1109.0	1108.9
177.5°	1108.6	1108.4	1108.4	1108.4	1108.4	1108.4	1109.2	1110.2	1111.1	1112.1	1112.0
180°	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4



TEST NUMBER: P332103-935

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	395.9	395.7	396.8	396.1	396.8	395.7	395.9	397.0	397.4	397.4	397.4
5°	368.5	369.1	367.0	367.0	367.0	369.1	368.5	369.7	370.7	371.5	372.6
7.5°	344.1	343.2	343.3	342.2	343.3	343.2	344.1	345.0	346.3	348.1	349.7
10°	329.2	328.0	327.5	327.8	327.5	328.0	329.2	331.6	332.3	334.0	335.8
12.5°	316.8	316.6	313.9	313.9	313.9	316.6	316.8	317.5	319.2	322.6	324.7
15°	302.3	298.5	298.1	299.3	298.1	298.5	302.3	302.3	303.1	305.7	306.9
17.5°	287.7	285.7	285.9	285.2	285.9	285.7	287.7	288.0	288.7	290.8	292.4
20°	280.0	278.8	278.6	277.2	278.6	278.8	280.0	280.0	280.9	281.8	283.4
22.5°	272.9	272.6	272.7	271.1	272.7	272.6	272.9	273.5	274.2	274.9	276.0
25°	264.2	265.2	264.3	264.3	264.3	265.2	264.2	264.3	264.6	265.5	266.4
27.5°	258.2	258.2	257.8	257.8	257.8	258.2	258.2	257.8	257.5	257.2	257.0
30°	253.7	253.6	253.9	253.9	253.9	253.6	253.7	253.0	252.5	252.4	251.5
32.5°	249.3	249.5	249.6	249.8	249.6	249.5	249.3	248.3	247.5	247.0	246.4
35°	242.3	242.5	243.1	242.7	243.1	242.5	242.3	241.1	240.3	239.1	238.1
37.5°	232.9	233.8	233.7	233.9	233.7	233.8	232.9	232.6	231.8	230.8	229.6
40°	225.8	226.4	226.3	226.3	226.3	226.4	225.8	225.7	224.9	224.3	223.3
42.5°	218.6	219.0	218.5	218.3	218.5	219.0	218.6	218.3	217.8	216.7	215.5
45°	206.8	206.4	207.0	206.2	207.0	206.4	206.8	206.0	205.8	205.0	204.0
47.5°	193.6	194.0	194.2	194.8	194.2	194.0	193.6	193.6	192.5	192.0	191.7
50°	184.8	186.0	186.0	185.7	186.0	186.0	184.8	184.3	183.6	182.7	182.7
52.5°	176.1	176.6	177.5	177.4	177.5	176.6	176.1	175.4	174.5	173.4	173.1
55°	162.6	163.1	163.5	163.7	163.5	163.1	162.6	161.1	160.5	159.9	158.9
57.5°	148.8	148.6	149.6	149.9	149.6	148.6	148.8	147.3	146.5	144.6	144.3
60°	139.0	139.0	140.6	141.2	140.6	139.0	139.0	137.4	136.0	134.8	134.4
62.5°	128.5	129.2	130.8	130.0	130.8	129.2	128.5	126.8	125.7	124.2	123.1
65°	113.3	114.9	114.8	115.5	114.8	114.9	113.3	112.4	110.1	108.7	107.5
67.5°	97.4	98.4	99.9	100.0	99.9	98.4	97.4	95.8	94.4	92.9	91.4
70°	86.6	87.6	88.4	89.0	88.4	87.6	86.6	85.1	83.4	82.4	80.8
72.5°	76.2	76.7	78.7	77.8	78.7	76.7	76.2	74.3	73.0	72.2	70.4
75°	59.8	61.2	62.4	61.8	62.4	61.2	59.8	58.4	57.3	56.1	54.6
77.5°	44.2	45.6	46.1	45.6	46.1	45.6	44.2	43.3	42.8	40.4	40.2
80°	34.9	34.7	35.9	35.7	35.9	34.7	34.9	33.5	32.5	31.1	31.1
82.5°	25.6	25.4	25.9	26.1	25.9	25.4	25.6	24.8	23.5	22.9	22.4
85°	12.4	13.0	12.2	12.1	12.2	13.0	12.4	11.6	11.6	11.6	11.5
87.5°	7.9	8.0	7.9	7.8	7.9	8.0	7.9	7.8	8.4	7.7	7.6
90°	25.0	25.4	25.7	26.2	25.7	25.4	25.0	24.6	24.0	23.2	22.5
92.5°	35.9	35.7	35.5	35.2	35.5	35.7	35.9	36.2	36.0	35.4	34.7
95°	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	67.7	66.9	66.1
97.5°	104.9	104.9	104.8	104.7	104.8	104.9	104.9	105.0	104.6	103.7	102.8
100°	131.4	131.8	132.2	132.6	132.2	131.8	131.4	131.0	130.5	130.0	129.4
102.5°	161.4	161.4	161.3	161.2	161.3	161.4	161.4	161.5	161.3	160.7	160.1
105°	206.5	206.8	207.2	207.6	207.2	206.8	206.5	206.0	205.9	205.9	205.9
107.5°	256.7	256.4	256.1	255.9	256.1	256.4	256.7	256.8	256.7	256.1	255.5
110°	289.9	289.5	289.1	288.7	289.1	289.5	289.9	290.2	290.1	289.3	288.5



TEST NUMBER: P332103-935

CATALOG NUMBER: S123DIW-S340D1030U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	323.8	323.7	323.7	323.6	323.7	323.7	323.8	323.9	323.5	322.5	321.7
115°	372.2	372.0	371.8	371.6	371.8	372.0	372.2	372.4	372.4	372.2	372.0
117.5°	421.9	421.4	420.8	420.3	420.8	421.4	421.9	422.4	422.8	422.8	422.8
120°	455.6	455.2	454.9	454.4	454.9	455.2	455.6	456.0	456.3	456.5	456.7
122.5°	488.9	488.4	487.8	487.2	487.8	488.4	488.9	489.4	490.0	490.4	490.9
125°	538.8	538.0	537.3	536.5	537.3	538.0	538.8	539.6	540.4	541.1	541.9
127.5°	588.1	587.3	586.3	585.5	586.3	587.3	588.1	589.0	590.0	591.2	592.2
130°	621.6	620.3	619.0	617.6	619.0	620.3	621.6	623.0	624.1	624.8	625.6
132.5°	654.2	653.2	652.1	651.1	652.1	653.2	654.2	655.3	656.3	657.2	658.1
135°	704.2	703.9	703.4	703.1	703.4	703.9	704.2	704.6	705.2	705.9	706.7
137.5°	751.1	750.4	749.7	749.0	749.7	750.4	751.1	751.9	752.7	753.5	754.3
140°	783.0	781.7	780.3	778.9	780.3	781.7	783.0	784.4	785.1	785.3	785.6
142.5°	812.8	811.8	810.7	809.7	810.7	811.8	812.8	813.8	814.5	814.7	814.9
145°	856.3	855.5	854.7	853.9	854.7	855.5	856.3	857.0	857.6	857.7	858.0
147.5°	896.9	895.7	894.6	893.4	894.6	895.7	896.9	898.0	898.6	898.6	898.6
150°	922.0	920.8	919.7	918.5	919.7	920.8	922.0	923.2	923.8	923.8	923.8
152.5°	946.0	944.9	943.9	943.0	943.9	944.9	946.0	947.0	947.4	947.0	946.7
155°	980.2	978.8	977.5	976.1	977.5	978.8	980.2	981.5	981.8	981.0	980.2
157.5°	1009.5	1008.5	1007.4	1006.3	1007.4	1008.5	1009.5	1010.6	1010.7	1010.0	1009.1
160°	1028.1	1027.3	1026.6	1025.8	1026.6	1027.3	1028.1	1028.9	1028.8	1027.9	1026.9
162.5°	1044.2	1042.9	1041.7	1040.4	1041.7	1042.9	1044.2	1045.4	1045.6	1044.6	1043.6
165°	1065.7	1064.3	1062.9	1061.6	1062.9	1064.3	1065.7	1067.0	1067.1	1065.9	1064.8
167.5°	1083.1	1081.9	1080.7	1079.5	1080.7	1081.9	1083.1	1084.3	1084.3	1083.1	1081.9
170°	1092.7	1091.3	1089.9	1088.6	1089.9	1091.3	1092.7	1094.1	1094.1	1092.7	1091.3
172.5°	1099.7	1098.3	1096.9	1095.6	1096.9	1098.3	1099.7	1101.0	1101.1	1099.9	1098.7
175°	1107.5	1106.1	1104.8	1103.5	1104.8	1106.1	1107.5	1108.9	1109.0	1107.8	1106.6
177.5°	1110.9	1109.8	1108.7	1107.7	1108.7	1109.8	1110.9	1112.0	1112.1	1111.1	1110.2
180°	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4



TEST NUMBER: P332103-935

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	397.0	397.0	400.0	402.0	404.4	406.0	407.1	408.2	410.2	412.7	415.6
5°	374.3	375.1	379.5	383.9	388.1	391.8	394.8	398.4	402.8	408.2	414.2
7.5°	352.3	355.4	359.8	365.2	371.1	376.3	381.7	387.6	393.9	401.8	410.3
10°	338.2	341.6	347.0	353.9	360.1	366.3	372.9	379.3	387.1	396.6	407.4
12.5°	325.8	329.1	334.7	342.1	348.0	354.9	362.5	370.8	379.6	390.9	403.2
15°	308.7	312.5	319.3	323.0	332.0	340.2	347.2	359.2	370.5	382.1	396.3
17.5°	294.6	296.8	302.3	309.0	315.7	325.0	334.2	344.2	355.4	369.6	387.4
20°	285.0	286.8	292.8	299.9	307.1	315.6	323.7	333.8	346.4	361.4	380.7
22.5°	277.8	279.7	283.7	291.2	297.9	305.0	313.1	325.1	338.5	353.3	374.1
25°	267.3	268.5	271.2	277.2	283.2	291.0	298.3	309.5	323.3	340.6	361.4
27.5°	257.4	258.6	260.8	265.1	270.8	277.1	285.0	294.5	308.5	327.3	349.4
30°	251.5	251.8	253.7	257.8	262.6	267.8	275.0	285.9	299.1	318.1	341.4
32.5°	246.4	245.6	247.0	250.0	254.7	259.9	265.9	276.6	289.3	308.0	331.9
35°	237.7	237.3	236.7	239.3	243.3	247.3	252.5	260.5	275.0	292.5	317.5
37.5°	228.9	227.8	226.8	228.0	231.1	235.3	239.8	246.9	259.4	278.6	302.6
40°	222.2	221.4	220.8	220.4	223.3	227.2	230.7	237.5	249.1	267.3	291.0
42.5°	215.0	214.6	213.8	213.2	215.5	218.6	222.1	228.2	239.8	256.9	279.3
45°	203.4	203.0	202.6	202.2	203.6	206.4	209.2	213.6	223.7	240.3	260.5
47.5°	190.5	189.9	190.1	189.4	190.8	192.7	194.7	199.4	209.0	222.5	237.3
50°	181.2	180.9	180.9	180.9	181.3	183.6	185.4	189.0	197.8	211.2	221.9
52.5°	172.3	171.4	171.4	171.8	172.5	173.9	175.0	179.0	186.7	197.8	207.4
55°	158.4	156.9	156.4	156.9	157.5	158.7	159.9	163.1	169.7	177.9	183.6
57.5°	143.1	142.2	141.7	141.8	142.2	143.1	144.0	147.5	152.7	157.0	160.7
60°	132.4	132.8	131.0	131.4	131.4	132.2	133.6	135.8	140.2	143.2	146.8
62.5°	122.3	121.7	121.2	120.6	120.6	121.0	122.9	124.6	128.4	129.9	132.7
65°	106.5	106.5	105.3	105.7	105.9	104.5	105.5	107.5	109.9	110.6	113.1
67.5°	90.6	90.0	89.3	88.7	88.7	88.6	89.1	90.1	91.9	92.1	94.1
70°	79.6	79.2	79.0	78.4	77.7	78.6	78.0	79.0	80.1	80.2	81.5
72.5°	69.1	68.6	68.3	67.7	67.3	67.2	67.2	68.4	69.1	68.9	70.2
75°	54.0	53.6	53.1	52.2	52.2	51.6	51.7	52.5	53.4	52.8	54.0
77.5°	39.6	38.4	38.3	38.6	37.9	38.1	37.8	37.7	38.1	38.1	39.2
80°	30.5	29.1	29.4	29.3	29.1	28.8	28.5	28.7	28.8	29.1	29.7
82.5°	22.0	21.9	21.4	21.4	21.2	20.7	20.5	20.8	21.0	20.9	21.4
85°	11.2	10.6	11.0	10.8	11.0	10.8	10.2	10.2	10.6	10.4	10.8
87.5°	7.7	7.6	6.9	6.5	5.9	5.5	4.9	4.7	4.5	4.1	4.0
90°	21.7	20.9	18.4	15.9	13.3	10.8	8.6	6.7	4.7	2.8	0.9
92.5°	34.1	33.5	32.0	30.7	29.2	27.7	26.3	25.1	23.8	22.4	21.1
95°	65.3	64.6	63.0	61.5	59.9	58.4	56.9	55.5	54.2	52.8	51.5
97.5°	101.9	101.0	99.9	98.8	97.6	96.5	95.5	94.5	93.4	92.4	91.4
100°	128.8	128.2	127.3	126.3	125.4	124.3	123.3	122.1	121.0	119.8	118.6
102.5°	159.5	158.9	157.6	156.4	155.1	153.8	152.8	152.1	151.4	150.8	150.1
105°	205.9	205.9	204.1	202.3	200.6	198.9	197.9	197.4	197.1	196.7	196.3
107.5°	254.8	254.2	253.5	252.8	252.1	251.4	250.9	250.7	250.5	250.2	250.0
110°	287.7	287.0	286.6	286.2	285.9	285.4	285.1	284.6	284.3	283.9	283.5



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	320.7	319.8	319.7	319.6	319.5	319.4	319.3	319.1	318.8	318.7	318.4
115°	371.8	371.6	372.0	372.4	372.7	373.2	373.1	372.5	371.9	371.3	370.7
117.5°	422.8	422.9	423.4	423.9	424.4	424.9	425.0	424.6	424.2	423.8	423.4
120°	456.8	457.1	458.1	459.0	459.9	461.0	460.9	459.7	458.6	457.4	456.2
122.5°	491.5	492.0	492.5	493.0	493.5	494.0	493.8	492.9	492.1	491.3	490.4
125°	542.7	543.5	543.8	544.2	544.6	545.0	544.9	544.3	543.7	543.1	542.6
127.5°	593.3	594.3	594.8	595.2	595.6	596.1	595.6	594.4	593.2	591.9	590.7
130°	626.4	627.2	627.8	628.4	629.0	629.5	629.0	627.5	625.9	624.4	622.8
132.5°	659.0	660.0	660.4	660.8	661.2	661.7	661.2	659.6	658.0	656.4	654.9
135°	707.5	708.3	708.5	708.7	708.9	709.0	708.6	707.4	706.3	705.1	704.0
137.5°	755.1	756.0	755.4	754.9	754.4	753.9	753.2	752.2	751.2	750.3	749.3
140°	785.7	785.9	785.7	785.6	785.3	785.1	784.5	783.6	782.6	781.7	780.7
142.5°	815.0	815.3	814.9	814.5	814.2	813.8	813.2	812.2	811.2	810.3	809.3
145°	858.2	858.3	857.7	857.2	856.6	856.0	855.5	855.1	854.7	854.4	853.9
147.5°	898.6	898.6	898.1	897.6	897.0	896.5	895.9	895.2	894.4	893.7	893.0
150°	923.8	923.8	923.3	923.0	922.6	922.2	921.8	921.4	921.0	920.7	920.2
152.5°	946.4	946.1	945.9	945.6	945.4	945.1	944.8	944.3	943.7	943.1	942.6
155°	979.5	978.7	978.5	978.4	978.1	977.9	977.8	977.8	977.8	977.8	977.8
157.5°	1008.3	1007.5	1007.4	1007.2	1007.0	1006.9	1006.9	1007.1	1007.4	1007.6	1007.9
160°	1025.9	1024.9	1024.9	1024.9	1024.9	1024.9	1025.1	1025.5	1025.9	1026.3	1026.7
162.5°	1042.7	1041.7	1041.6	1041.4	1041.2	1041.0	1041.3	1041.8	1042.3	1042.9	1043.4
165°	1063.6	1062.5	1062.5	1062.5	1062.5	1062.5	1062.7	1063.3	1063.9	1064.5	1065.1
167.5°	1080.7	1079.5	1079.4	1079.3	1079.1	1078.9	1079.3	1080.0	1080.8	1081.6	1082.4
170°	1089.9	1088.6	1088.6	1088.6	1088.6	1088.6	1089.0	1089.8	1090.5	1091.3	1092.1
172.5°	1097.5	1096.3	1096.3	1096.3	1096.3	1096.3	1096.7	1097.4	1098.2	1099.0	1099.8
175°	1105.5	1104.3	1104.3	1104.3	1104.3	1104.3	1104.7	1105.5	1106.3	1107.1	1107.8
177.5°	1109.2	1108.4	1108.4	1108.4	1108.4	1108.4	1108.6	1109.2	1109.9	1110.5	1111.1
180°	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	416.6	417.4	420.1	422.1	424.3	425.6	426.8	427.8	429.1	429.4	434.0
5°	418.4	422.4	429.5	434.6	441.1	448.1	452.9	455.1	461.0	465.7	475.4
7.5°	417.9	426.5	437.0	448.1	459.8	470.7	480.2	491.5	499.4	511.4	523.2
10°	417.4	428.9	442.5	456.5	472.9	488.2	501.9	517.1	529.8	546.4	560.6
12.5°	415.9	429.8	448.8	465.4	485.3	506.4	526.6	546.1	557.3	585.0	598.1
15°	412.4	428.9	452.5	477.8	505.2	530.1	555.8	576.3	609.3	633.6	649.1
17.5°	405.6	428.6	456.7	487.2	520.6	553.4	582.5	613.5	648.6	678.0	709.3
20°	402.3	427.7	458.9	492.7	527.4	564.5	597.5	634.8	673.1	702.1	742.2
22.5°	396.4	425.1	458.7	496.3	533.4	571.8	610.5	648.2	692.4	732.2	770.4
25°	386.8	418.8	453.7	495.7	539.2	577.6	624.1	674.0	720.1	771.3	809.3
27.5°	376.5	410.8	445.7	484.7	531.6	577.3	635.6	692.0	748.4	792.6	820.8
30°	368.7	402.0	438.1	477.4	523.7	578.1	643.3	704.8	759.8	797.7	813.6
32.5°	360.2	393.9	425.9	467.1	516.5	577.6	648.1	712.4	760.4	785.7	782.6
35°	346.8	375.1	406.2	445.9	504.0	574.0	650.9	713.1	742.5	737.1	696.2
37.5°	327.5	351.4	381.9	425.4	489.7	566.6	645.2	691.9	690.0	645.9	586.6
40°	315.6	335.8	365.2	411.0	478.4	561.8	636.5	666.8	641.1	579.5	508.5
42.5°	299.8	318.5	347.9	394.9	466.1	552.1	619.6	628.4	578.2	507.3	442.2
45°	275.4	291.9	322.4	370.9	447.5	530.7	578.5	557.0	489.4	416.2	366.7
47.5°	249.2	266.3	295.6	345.5	420.7	498.7	521.4	475.8	406.4	347.0	301.5
50°	232.6	249.1	277.8	328.1	402.6	472.3	481.8	422.8	359.0	306.9	269.6
52.5°	216.0	231.4	259.7	310.2	381.4	441.9	436.1	376.0	317.4	272.9	243.6
55°	191.1	205.8	232.6	280.0	344.8	392.7	371.7	314.4	265.8	231.3	209.0
57.5°	168.9	183.0	206.1	248.9	305.2	338.2	311.4	263.0	224.5	197.9	181.3
60°	153.9	166.3	188.4	228.1	277.0	302.0	275.6	232.9	200.4	179.1	164.3
62.5°	139.6	150.4	170.8	206.9	249.4	270.4	243.7	207.5	179.9	161.0	148.4
65°	118.0	127.8	145.9	173.9	208.8	222.8	199.8	170.5	149.0	135.0	126.6
67.5°	98.2	106.6	122.2	144.2	170.0	180.1	162.6	139.9	123.7	112.4	105.8
70°	85.1	92.3	104.5	123.6	146.8	154.6	138.2	119.5	107.7	98.7	92.5
72.5°	74.0	79.3	90.4	105.1	124.5	130.7	119.2	102.9	91.9	85.1	80.1
75°	56.4	60.8	68.0	79.8	93.2	96.9	88.3	78.0	70.6	65.8	62.0
77.5°	40.6	43.9	49.1	56.4	65.7	69.0	63.5	56.7	51.2	48.0	45.9
80°	30.7	33.3	37.7	43.7	49.3	51.1	48.0	42.7	38.9	37.1	35.3
82.5°	22.6	24.1	26.8	30.9	34.7	36.9	34.2	31.0	28.9	27.3	26.6
85°	11.5	12.2	13.4	15.1	17.5	18.3	17.2	16.4	15.2	14.2	14.2
87.5°	4.7	5.1	6.0	6.7	7.7	8.8	9.1	9.3	9.6	9.6	9.6
90°	2.8	4.7	6.7	8.6	10.8	13.3	15.9	18.4	20.9	21.7	22.5
92.5°	22.4	23.8	25.1	26.3	27.7	29.2	30.7	32.0	33.5	34.1	34.7
95°	52.8	54.2	55.5	56.9	58.4	59.9	61.5	63.0	64.6	65.3	66.1
97.5°	92.4	93.4	94.5	95.5	96.5	97.6	98.8	99.9	101.0	101.9	102.8
100°	119.8	121.0	122.1	123.3	124.3	125.4	126.3	127.3	128.2	128.8	129.4
102.5°	150.8	151.4	152.1	152.8	153.8	155.1	156.4	157.6	158.9	159.5	160.1
105°	196.7	197.1	197.4	197.9	198.9	200.6	202.3	204.1	205.9	205.9	205.9
107.5°	250.2	250.5	250.7	250.9	251.4	252.1	252.8	253.5	254.2	254.8	255.5
110°	283.9	284.3	284.6	285.1	285.4	285.9	286.2	286.6	287.0	287.7	288.5



TEST NUMBER: P332103-935

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	318.7	318.8	319.1	319.3	319.4	319.5	319.6	319.7	319.8	320.7	321.7
115°	371.3	371.9	372.5	373.1	373.2	372.7	372.4	372.0	371.6	371.8	372.0
117.5°	423.8	424.2	424.6	425.0	424.9	424.4	423.9	423.4	422.9	422.8	422.8
120°	457.4	458.6	459.7	460.9	461.0	459.9	459.0	458.1	457.1	456.8	456.7
122.5°	491.3	492.1	492.9	493.8	494.0	493.5	493.0	492.5	492.0	491.5	490.9
125°	543.1	543.7	544.3	544.9	545.0	544.6	544.2	543.8	543.5	542.7	541.9
127.5°	591.9	593.2	594.4	595.6	596.1	595.6	595.2	594.8	594.3	593.3	592.2
130°	624.4	625.9	627.5	629.0	629.5	629.0	628.4	627.8	627.2	626.4	625.6
132.5°	656.4	658.0	659.6	661.2	661.7	661.2	660.8	660.4	660.0	659.0	658.1
135°	705.1	706.3	707.4	708.6	709.0	708.9	708.7	708.5	708.3	707.5	706.7
137.5°	750.3	751.2	752.2	753.2	753.9	754.4	754.9	755.4	756.0	755.1	754.3
140°	781.7	782.6	783.6	784.5	785.1	785.3	785.6	785.7	785.9	785.7	785.6
142.5°	810.3	811.2	812.2	813.2	813.8	814.2	814.5	814.9	815.3	815.0	814.9
145°	854.4	854.7	855.1	855.5	856.0	856.6	857.2	857.7	858.3	858.2	858.0
147.5°	893.7	894.4	895.2	895.9	896.5	897.0	897.6	898.1	898.6	898.6	898.6
150°	920.7	921.0	921.4	921.8	922.2	922.6	923.0	923.3	923.8	923.8	923.8
152.5°	943.1	943.7	944.3	944.8	945.1	945.4	945.6	945.9	946.1	946.4	946.7
155°	977.8	977.8	977.8	977.8	977.9	978.1	978.4	978.5	978.7	979.5	980.2
157.5°	1007.6	1007.4	1007.1	1006.9	1006.9	1007.0	1007.2	1007.4	1007.5	1008.3	1009.1
160°	1026.3	1025.9	1025.5	1025.1	1024.9	1024.9	1024.9	1024.9	1024.9	1025.9	1026.9
162.5°	1042.9	1042.3	1041.8	1041.3	1041.0	1041.2	1041.4	1041.6	1041.7	1042.7	1043.6
165°	1064.5	1063.9	1063.3	1062.7	1062.5	1062.5	1062.5	1062.5	1062.5	1063.6	1064.8
167.5°	1081.6	1080.8	1080.0	1079.3	1078.9	1079.1	1079.3	1079.4	1079.5	1080.7	1081.9
170°	1091.3	1090.5	1089.8	1089.0	1088.6	1088.6	1088.6	1088.6	1088.6	1089.9	1091.3
172.5°	1099.0	1098.2	1097.4	1096.7	1096.3	1096.3	1096.3	1096.3	1096.3	1097.5	1098.7
175°	1107.1	1106.3	1105.5	1104.7	1104.3	1104.3	1104.3	1104.3	1104.3	1105.5	1106.6
177.5°	1110.5	1109.9	1109.2	1108.6	1108.4	1108.4	1108.4	1108.4	1108.4	1109.2	1110.2
180°	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	435.7	435.8	437.6	438.9	438.2	439.0	439.4
5°	476.0	483.2	487.0	489.8	490.0	490.3	491.8
7.5°	533.1	540.9	546.6	555.2	557.7	560.6	559.8
10°	574.9	586.3	596.2	601.3	607.0	615.2	608.6
12.5°	613.9	634.1	649.1	657.2	662.5	664.1	660.9
15°	678.2	704.6	718.8	718.5	736.5	744.3	732.1
17.5°	737.1	761.6	781.2	791.2	806.2	809.5	808.0
20°	773.3	800.0	815.2	832.4	840.2	847.2	848.4
22.5°	804.3	828.4	844.7	859.0	865.6	868.9	870.9
25°	836.5	855.3	865.1	870.1	871.9	871.5	868.9
27.5°	834.2	835.7	824.8	814.2	804.7	794.0	790.3
30°	812.5	795.7	765.6	748.6	723.5	703.6	711.7
32.5°	755.6	722.0	688.3	651.0	620.2	611.4	602.5
35°	644.9	585.9	551.4	511.3	495.2	479.2	468.1
37.5°	521.7	476.1	435.1	409.0	392.9	382.7	377.3
40°	451.1	410.0	376.3	355.0	342.8	331.4	329.8
42.5°	394.8	356.5	331.2	314.3	302.6	297.6	294.1
45°	323.3	296.7	279.7	267.6	259.8	256.8	252.7
47.5°	273.7	254.9	242.0	233.8	227.9	225.7	225.4
50°	245.9	230.2	220.8	214.4	209.8	209.0	205.8
52.5°	225.1	211.5	204.1	198.5	195.2	193.0	192.0
55°	195.4	186.3	179.7	176.5	173.9	171.7	171.7
57.5°	170.9	163.4	159.0	156.3	155.5	153.9	152.9
60°	155.8	149.5	146.0	143.6	142.0	142.2	140.4
62.5°	141.1	136.9	133.6	131.3	129.3	129.4	129.5
65°	120.1	116.9	114.5	113.7	112.5	111.2	111.5
67.5°	101.9	98.8	96.9	95.6	95.1	94.4	95.6
70°	88.7	86.4	85.1	83.9	83.4	83.6	84.6
72.5°	76.6	75.1	74.1	73.6	72.7	72.8	73.4
75°	60.2	59.0	58.2	57.6	57.3	57.3	57.3
77.5°	44.2	43.9	43.6	42.7	42.7	43.0	43.0
80°	34.9	34.3	34.1	33.7	33.1	32.7	33.7
82.5°	26.1	25.5	25.3	25.2	24.3	24.2	25.1
85°	14.0	13.4	13.6	13.4	13.4	13.3	13.3
87.5°	9.6	9.6	9.6	9.8	9.7	9.6	10.1
90°	23.2	24.0	24.6	25.0	25.4	25.7	26.2
92.5°	35.4	36.0	36.2	35.9	35.7	35.5	35.2
95°	66.9	67.7	68.0	68.0	68.0	68.0	68.0
97.5°	103.7	104.6	105.0	104.9	104.9	104.8	104.7
100°	130.0	130.5	131.0	131.4	131.8	132.2	132.6
102.5°	160.7	161.3	161.5	161.4	161.4	161.3	161.2
105°	205.9	205.9	206.0	206.5	206.8	207.2	207.6
107.5°	256.1	256.7	256.8	256.7	256.4	256.1	255.9
110°	289.3	290.1	290.2	289.9	289.5	289.1	288.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	322.5	323.5	323.9	323.8	323.7	323.7	323.6
115°	372.2	372.4	372.4	372.2	372.0	371.8	371.6
117.5°	422.8	422.8	422.4	421.9	421.4	420.8	420.3
120°	456.5	456.3	456.0	455.6	455.2	454.9	454.4
122.5°	490.4	490.0	489.4	488.9	488.4	487.8	487.2
125°	541.1	540.4	539.6	538.8	538.0	537.3	536.5
127.5°	591.2	590.0	589.0	588.1	587.3	586.3	585.5
130°	624.8	624.1	623.0	621.6	620.3	619.0	617.6
132.5°	657.2	656.3	655.3	654.2	653.2	652.1	651.1
135°	705.9	705.2	704.6	704.2	703.9	703.4	703.1
137.5°	753.5	752.7	751.9	751.1	750.4	749.7	749.0
140°	785.3	785.1	784.4	783.0	781.7	780.3	778.9
142.5°	814.7	814.5	813.8	812.8	811.8	810.7	809.7
145°	857.7	857.6	857.0	856.3	855.5	854.7	853.9
147.5°	898.6	898.6	898.0	896.9	895.7	894.6	893.4
150°	923.8	923.8	923.2	922.0	920.8	919.7	918.5
152.5°	947.0	947.4	947.0	946.0	944.9	943.9	943.0
155°	981.0	981.8	981.5	980.2	978.8	977.5	976.1
157.5°	1010.0	1010.7	1010.6	1009.5	1008.5	1007.4	1006.3
160°	1027.9	1028.8	1028.9	1028.1	1027.3	1026.6	1025.8
162.5°	1044.6	1045.6	1045.4	1044.2	1042.9	1041.7	1040.4
165°	1065.9	1067.1	1067.0	1065.7	1064.3	1062.9	1061.6
167.5°	1083.1	1084.3	1084.3	1083.1	1081.9	1080.7	1079.5
170°	1092.7	1094.1	1094.1	1092.7	1091.3	1089.9	1088.6
172.5°	1099.9	1101.1	1101.0	1099.7	1098.3	1096.9	1095.6
175°	1107.8	1109.0	1108.9	1107.5	1106.1	1104.8	1103.5
177.5°	1111.1	1112.1	1112.0	1110.9	1109.8	1108.7	1107.7
180°	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4

(END OF REPORT)