

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: P332518-940

Luminaire Tested: **S124DIP-S350D1035U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332518-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIP-S350D1035U940-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1035 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4601.9 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Indirect

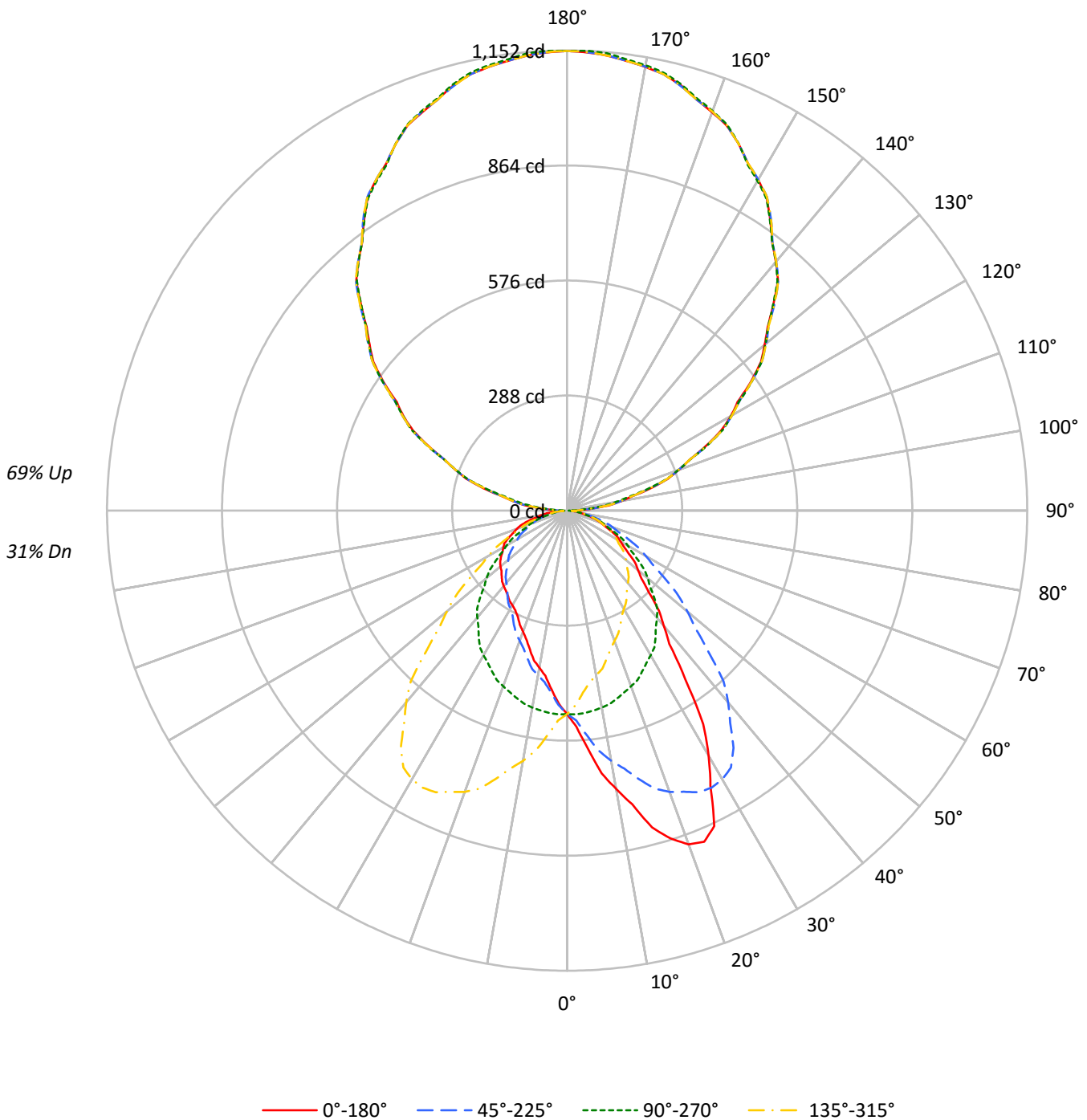
Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	38	38	38	31
1	94	89	86	82	84	80	77	74	64	62	60	48	47	46	34	33	33	26
2	85	78	72	67	76	70	65	61	56	52	50	42	40	38	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	33	27	25	24	19
4	71	61	53	48	64	55	48	43	44	39	36	34	30	28	24	22	20	16
5	65	54	46	41	58	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	20	17	16	13
7	55	44	36	31	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	40	32	27	46	36	29	25	29	24	21	23	19	17	16	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	9
10	45	33	26	21	40	30	24	20	24	20	17	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4112	4112	4112	4112
5°	4843	4123	3639	4123
10°	5799	4105	3277	4105
15°	6861	4064	3010	4064
20°	7640	4021	2770	4021
25°	7764	3958	2605	3958
30°	6605	3899	2553	3899
35°	5078	3802	2553	3802
40°	3959	3687	2602	3687
45°	3301	3515	2646	3515
50°	2905	3304	2735	3304
55°	2662	3054	2846	3054
60°	2493	2827	2977	2827
65°	2321	2575	3089	2575
70°	2122	2325	3158	2325
75°	1896	2046	3119	2046
80°	1590	1678	3022	1678
85°	1176	1213	2890	1213



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.6	1.1
10°-20°	153.0	3.3
20°-30°	242.6	5.3
30°-40°	270.0	5.9
40°-50°	245.7	5.3
50°-60°	200.8	4.4
60°-70°	143.4	3.1
70°-80°	78.9	1.7
80°-90°	25.0	0.5
90°-100°	75.9	1.6
100°-110°	224.9	4.9
110°-120°	381.7	8.3
120°-130°	503.2	10.9
130°-140°	565.2	12.3
140°-150°	555.4	12.1
150°-160°	467.1	10.2
160°-170°	310.8	6.8
170°-180°	108.8	2.4
0°-30°	445.2	9.7
0°-40°	715.2	15.5
0°-60°	1161.7	25.2
0°-90°	1409.0	30.6
90°-120°	682.4	14.8
90°-150°	2306.2	50.1
90°-180°	3193.0	69.4
0°-180°	4601.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	509	509	509	509	509	
5°	598	509	449	509	598	61
15°	821	486	360	486	821	232
25°	872	444	292	444	872	384
35°	515	386	259	386	515	327
45°	289	308	232	308	289	228
55°	189	217	202	217	189	171
65°	122	135	162	135	122	120
75°	61	66	100	66	61	65
85°	13	13	31	13	13	16
90°	27	3	27	3	27	14
95°	70	53	70	53	70	73
105°	217	207	217	207	217	229
115°	384	388	384	388	384	380
125°	561	565	561	565	561	500
135°	730	729	730	729	730	564
145°	886	886	886	886	886	555
155°	1014	1015	1014	1015	1014	467
165°	1102	1105	1102	1105	1102	310
175°	1144	1149	1144	1149	1144	109
180°	1151	1151	1151	1151	1151	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	542.2	542.1	540.4	540.0	538.9	537.3	537.0	534.2	528.9	526.3	525.7
5°	597.6	601.9	596.4	595.3	594.7	587.7	584.2	580.0	570.2	564.5	560.1
7.5°	663.9	664.3	661.9	660.0	654.6	648.5	639.4	629.7	618.1	606.2	597.1
10°	707.4	709.1	706.3	706.0	695.2	688.4	674.9	663.5	650.4	635.9	622.6
12.5°	753.3	751.0	749.6	740.6	738.5	726.2	710.5	698.8	678.6	661.8	644.2
15°	820.9	816.3	813.3	800.9	794.8	777.7	761.0	748.1	721.8	696.6	677.6
17.5°	860.6	865.2	858.4	853.3	837.5	825.5	808.4	781.4	760.8	729.6	705.6
20°	889.3	889.7	885.9	880.7	868.3	853.0	834.5	804.9	780.2	749.2	716.2
22.5°	897.1	897.2	895.5	890.6	881.2	868.9	850.2	825.5	795.6	761.9	728.9
25°	871.6	870.8	872.6	878.2	874.6	870.8	860.0	841.6	813.8	778.1	742.6
27.5°	776.9	782.7	793.4	806.9	819.9	829.8	832.6	828.8	811.6	782.3	745.1
30°	708.6	715.9	723.9	737.4	763.6	778.6	795.0	807.4	800.5	777.0	742.4
32.5°	633.7	635.5	647.4	662.7	686.7	715.5	741.6	767.0	775.3	763.0	734.1
35°	515.3	518.4	531.2	546.4	575.7	611.0	650.2	685.3	714.2	725.8	711.0
37.5°	420.5	429.0	438.1	454.4	480.3	512.0	552.8	598.2	641.2	670.1	675.0
40°	375.7	380.9	387.4	399.9	421.9	453.1	488.1	540.0	585.9	627.2	640.7
42.5°	340.2	343.3	347.3	358.6	375.2	406.4	438.4	484.0	529.9	579.4	602.1
45°	289.1	292.3	299.1	305.6	318.3	339.7	369.5	407.1	453.3	501.0	542.8
47.5°	252.3	254.2	258.2	265.3	276.1	290.3	314.4	345.8	388.6	435.0	479.5
50°	231.3	233.0	236.1	242.5	250.7	263.4	283.2	312.5	346.1	392.7	436.4
52.5°	214.7	215.4	217.8	222.0	228.6	239.2	255.6	279.8	311.0	352.6	396.1
55°	189.1	189.9	192.1	195.2	200.9	207.7	220.1	238.3	265.5	301.6	339.4
57.5°	168.0	168.6	170.3	171.6	176.3	181.7	191.4	204.3	224.9	255.6	289.3
60°	154.4	154.1	156.1	157.2	160.4	165.1	172.5	184.9	202.8	227.5	258.5
62.5°	141.3	140.7	142.5	143.9	145.7	149.6	155.7	165.4	180.0	202.3	229.2
65°	121.5	120.7	121.8	123.5	125.1	127.2	131.7	140.4	151.9	168.0	188.4
67.5°	101.7	102.6	102.8	103.6	104.6	107.5	110.5	116.6	124.8	137.7	155.0
70°	89.9	90.2	91.0	91.0	91.6	94.2	96.7	100.2	108.3	120.1	134.2
72.5°	78.1	79.0	78.6	79.3	79.8	81.5	83.3	86.8	93.5	102.4	114.3
75°	60.8	61.4	61.4	61.6	62.2	62.9	64.4	66.9	71.8	78.3	86.5
77.5°	44.3	44.4	44.7	45.5	45.5	46.5	47.5	49.6	52.0	56.4	61.5
80°	34.2	34.6	34.4	34.9	34.9	35.7	36.1	38.6	39.7	42.6	46.6
82.5°	25.1	25.5	25.4	26.0	26.4	26.6	27.1	28.2	29.2	31.8	33.4
85°	12.7	13.1	12.7	13.1	13.7	13.9	14.5	14.8	15.6	16.2	17.7
87.5°	9.1	9.5	9.4	9.5	9.7	9.7	9.7	9.3	9.7	9.6	10.0
90°	26.7	26.3	25.9	25.5	25.1	24.3	23.2	21.9	20.8	19.6	18.0
92.5°	39.5	39.3	39.1	38.8	38.6	38.1	37.4	36.6	35.9	35.2	34.2
95°	70.4	70.4	70.4	70.4	70.4	70.0	69.5	68.8	68.2	67.7	66.3
97.5°	110.2	110.2	110.2	110.2	110.2	109.9	109.1	108.4	107.7	107.0	105.4
100°	137.9	137.9	137.9	137.9	137.9	137.8	137.3	137.0	136.6	136.2	134.4
102.5°	169.2	169.2	169.0	168.8	168.6	168.3	167.7	167.2	166.7	166.1	164.4
105°	217.1	216.6	216.0	215.3	214.8	214.2	213.7	213.0	212.4	211.9	211.1
107.5°	263.8	263.9	263.9	263.9	263.9	263.7	263.1	262.6	262.1	261.5	261.4
110°	297.3	296.7	296.0	295.5	294.9	294.8	295.2	295.6	296.0	296.4	296.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	331.4	331.4	331.2	331.1	331.0	331.0	331.0	331.1	331.2	331.3	331.6
115°	384.5	384.7	384.9	385.1	385.3	385.5	385.7	385.8	386.1	386.3	386.6
117.5°	435.1	435.4	435.9	436.2	436.7	437.2	437.8	438.5	439.2	439.9	440.1
120°	473.5	473.1	472.7	472.3	471.9	472.3	473.2	474.2	475.2	476.2	476.8
122.5°	505.5	506.2	506.9	507.7	508.4	509.1	509.8	510.4	511.1	511.8	512.0
125°	560.7	561.2	561.5	562.0	562.3	562.7	563.1	563.5	563.9	564.3	564.5
127.5°	611.8	612.2	612.4	612.8	613.1	613.4	613.9	614.2	614.7	615.0	615.4
130°	645.2	646.0	646.8	647.6	648.5	649.1	649.4	649.9	650.2	650.6	650.6
132.5°	680.9	681.2	681.5	681.8	682.2	682.5	682.9	683.3	683.7	684.1	684.2
135°	729.9	730.4	731.0	731.6	732.2	732.7	733.1	733.5	733.9	734.3	734.3
137.5°	781.3	781.1	781.0	781.0	780.8	781.0	781.5	782.0	782.6	783.1	782.7
140°	812.6	812.8	813.0	813.2	813.4	813.6	813.8	814.0	814.2	814.4	814.4
142.5°	843.9	844.0	844.0	844.1	844.1	844.2	844.2	844.2	844.3	844.3	844.5
145°	886.4	887.1	887.7	888.2	888.9	889.2	889.5	889.7	889.8	890.0	889.8
147.5°	929.6	929.8	930.0	930.1	930.3	930.5	930.7	930.9	931.0	931.2	931.3
150°	955.9	956.1	956.3	956.5	956.7	956.8	956.8	956.8	956.8	956.8	956.8
152.5°	980.1	980.6	981.1	981.7	982.2	982.2	981.7	981.2	980.8	980.3	980.2
155°	1013.8	1014.6	1015.4	1016.1	1016.9	1016.9	1016.1	1015.4	1014.6	1013.8	1014.0
157.5°	1043.8	1044.6	1045.2	1045.9	1046.5	1046.6	1046.0	1045.4	1044.8	1044.2	1044.3
160°	1061.0	1061.9	1062.9	1063.9	1064.9	1065.1	1064.5	1063.9	1063.3	1062.7	1062.9
162.5°	1078.7	1079.8	1080.8	1081.7	1082.7	1082.6	1081.6	1080.5	1079.4	1078.3	1078.6
165°	1101.9	1102.7	1103.5	1104.3	1105.0	1104.8	1103.7	1102.5	1101.3	1100.1	1100.5
167.5°	1118.5	1119.6	1120.9	1122.1	1123.4	1123.4	1122.2	1121.0	1119.8	1118.7	1118.6
170°	1127.7	1129.1	1130.4	1131.8	1133.2	1133.4	1132.1	1131.0	1129.8	1128.5	1128.4
172.5°	1135.5	1136.9	1138.3	1139.7	1141.0	1141.1	1139.7	1138.4	1137.0	1135.7	1135.7
175°	1143.7	1145.1	1146.5	1147.9	1149.2	1149.2	1147.9	1146.5	1145.1	1143.7	1143.9
177.5°	1148.0	1149.2	1150.5	1151.8	1153.1	1153.2	1152.0	1150.9	1149.8	1148.7	1148.7
180°	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	525.8	523.4	521.7	520.4	516.7	514.5	512.8	510.5	507.7	504.9	501.3
5°	555.6	548.5	543.2	535.2	527.6	521.3	514.7	508.8	501.7	493.8	488.1
7.5°	587.0	576.3	562.7	550.8	537.4	525.8	515.5	504.9	493.8	483.0	473.2
10°	607.0	593.3	578.0	560.1	543.2	528.2	514.3	500.8	487.7	474.7	463.4
12.5°	628.4	611.3	588.8	567.8	548.9	528.9	512.1	495.5	479.7	466.0	453.0
15°	657.2	632.5	606.5	578.5	553.6	530.1	507.1	486.2	468.5	450.3	437.7
17.5°	674.8	644.3	614.7	585.3	555.2	525.6	500.8	476.7	454.5	436.5	420.5
20°	686.5	656.1	619.2	589.9	554.0	523.6	494.9	468.1	444.9	425.7	409.2
22.5°	696.6	661.6	624.6	585.9	550.3	518.0	486.6	459.7	436.0	415.7	399.9
25°	702.1	661.8	621.7	583.3	542.8	504.6	476.1	444.4	419.1	397.8	380.9
27.5°	702.8	659.6	614.2	571.6	529.8	494.2	458.3	429.9	403.7	381.1	364.9
30°	700.9	655.9	607.2	561.0	519.0	480.4	449.1	418.3	391.5	369.1	352.2
32.5°	694.9	648.2	598.1	549.1	505.6	467.8	435.6	406.3	380.1	358.1	340.4
35°	677.9	631.6	578.3	527.4	482.9	444.7	415.5	385.8	359.6	338.8	321.6
37.5°	651.1	609.4	555.1	502.5	458.7	420.4	391.5	364.6	341.0	319.8	302.3
40°	627.9	591.1	536.6	485.4	438.1	401.6	374.6	349.9	326.5	306.4	289.7
42.5°	601.0	569.0	518.8	464.5	418.8	382.2	355.9	333.7	311.7	293.1	276.4
45°	553.1	532.0	484.7	434.5	387.0	352.4	327.3	307.9	289.4	271.2	257.3
47.5°	498.1	487.6	447.8	400.1	355.1	320.9	299.2	281.2	264.9	249.6	237.3
50°	461.1	456.0	421.7	375.7	332.6	300.5	278.6	263.1	249.2	235.8	224.1
52.5°	424.6	424.5	393.4	351.3	311.5	280.6	258.8	244.4	232.4	221.4	211.0
55°	368.9	374.8	350.5	313.0	277.3	249.4	229.8	217.0	208.5	199.5	191.6
57.5°	317.7	327.5	307.5	274.4	244.6	219.0	201.9	192.3	183.2	177.7	172.0
60°	284.3	293.6	277.9	250.1	222.0	200.1	183.8	175.1	167.4	163.5	159.5
62.5°	254.6	262.8	251.3	225.4	201.1	179.9	166.2	157.9	152.7	148.6	145.9
65°	212.1	219.1	209.1	190.4	169.4	152.6	141.4	134.8	129.8	128.1	125.1
67.5°	171.5	177.8	172.5	156.5	139.7	126.9	118.2	111.9	108.9	107.5	105.3
70°	147.3	153.6	147.9	134.0	121.1	110.4	102.1	98.5	95.4	94.8	91.8
72.5°	126.9	131.2	125.5	114.6	103.6	94.5	88.1	84.4	82.8	81.6	80.0
75°	95.1	99.0	95.1	86.8	78.9	72.6	67.1	65.6	63.8	63.1	62.1
77.5°	67.3	70.6	67.8	62.5	56.6	51.7	48.8	46.9	46.5	45.4	45.9
80°	51.5	53.6	50.8	47.3	42.6	39.2	37.2	36.1	34.9	34.4	35.2
82.5°	37.0	37.9	36.5	34.1	30.7	28.4	27.0	25.8	25.5	25.6	25.6
85°	19.2	19.0	18.8	16.7	15.6	14.2	13.3	13.1	12.8	13.3	13.7
87.5°	9.7	9.5	9.1	8.0	7.0	6.2	5.5	4.9	5.5	6.2	6.8
90°	16.4	14.8	13.3	11.4	9.2	7.0	4.8	2.7	4.8	7.0	9.2
92.5°	33.0	31.9	30.9	29.0	26.5	24.0	21.6	19.1	21.6	24.0	26.5
95°	64.9	63.5	62.1	60.5	58.8	57.0	55.2	53.4	55.2	57.0	58.8
97.5°	103.7	102.1	100.5	99.0	97.6	96.1	94.7	93.3	94.7	96.1	97.6
100°	132.6	130.8	129.0	127.8	127.0	126.2	125.4	124.6	125.4	126.2	127.0
102.5°	162.8	161.2	159.6	158.6	158.3	158.0	157.7	157.4	157.7	158.0	158.3
105°	210.3	209.5	208.7	208.2	207.9	207.8	207.6	207.4	207.6	207.8	207.9
107.5°	261.3	261.2	261.0	260.8	260.6	260.4	260.1	259.9	260.1	260.4	260.6
110°	296.8	296.9	297.2	297.1	296.7	296.3	295.9	295.5	295.9	296.3	296.7



TEST NUMBER: P332518-940

CATALOG NUMBER: S124DIP-S350D1035U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	332.0	332.3	332.7	332.9	332.8	332.7	332.6	332.5	332.6	332.7	332.8
115°	387.1	387.4	387.9	388.1	388.1	388.1	388.1	388.1	388.1	388.1	388.1
117.5°	440.4	440.7	441.0	441.0	440.9	440.7	440.6	440.4	440.6	440.7	440.9
120°	477.3	478.0	478.6	478.5	477.7	476.9	476.1	475.3	476.1	476.9	477.7
122.5°	512.3	512.6	512.9	512.8	512.6	512.2	511.9	511.6	511.9	512.2	512.6
125°	564.7	564.9	565.1	565.2	565.2	565.2	565.2	565.2	565.2	565.2	565.2
127.5°	615.6	616.0	616.3	616.2	615.5	614.9	614.4	613.8	614.4	614.9	615.5
130°	650.6	650.6	650.6	650.3	649.7	649.2	648.5	647.9	648.5	649.2	649.7
132.5°	684.4	684.6	684.7	684.6	684.1	683.7	683.3	682.9	683.3	683.7	684.1
135°	734.3	734.3	734.3	733.7	732.5	731.3	730.1	729.0	730.1	731.3	732.5
137.5°	782.5	782.1	781.8	781.4	780.8	780.2	779.7	779.2	779.7	780.2	780.8
140°	814.4	814.4	814.4	814.2	813.8	813.4	813.0	812.6	813.0	813.4	813.8
142.5°	844.6	844.8	844.9	844.8	844.5	844.0	843.6	843.2	843.6	844.0	844.5
145°	889.7	889.5	889.2	888.8	888.0	887.2	886.4	885.6	886.4	887.2	888.0
147.5°	931.5	931.7	931.8	931.4	930.5	929.5	928.5	927.6	928.5	929.5	930.5
150°	956.8	956.8	956.8	956.4	955.6	954.8	954.0	953.2	954.0	954.8	955.6
152.5°	980.0	979.8	979.6	979.4	978.9	978.4	977.9	977.5	977.9	978.4	978.9
155°	1014.1	1014.3	1014.6	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7	1014.7
157.5°	1044.3	1044.3	1044.4	1044.6	1044.9	1045.3	1045.6	1046.0	1045.6	1045.3	1044.9
160°	1063.1	1063.3	1063.5	1063.7	1063.9	1064.1	1064.3	1064.5	1064.3	1064.1	1063.9
162.5°	1078.8	1079.0	1079.1	1079.5	1080.0	1080.6	1081.1	1081.6	1081.1	1080.6	1080.0
165°	1100.9	1101.3	1101.7	1102.2	1102.8	1103.4	1103.9	1104.6	1103.9	1103.4	1102.8
167.5°	1118.6	1118.5	1118.5	1118.8	1119.7	1120.5	1121.3	1122.2	1121.3	1120.5	1119.7
170°	1128.2	1128.0	1127.7	1128.2	1129.2	1130.2	1131.1	1132.1	1131.1	1130.2	1129.2
172.5°	1135.6	1135.6	1135.5	1136.0	1136.8	1137.6	1138.4	1139.2	1138.4	1137.6	1136.8
175°	1144.1	1144.3	1144.5	1145.1	1146.1	1147.1	1148.1	1149.1	1148.1	1147.1	1146.1
177.5°	1148.7	1148.7	1148.7	1149.1	1149.9	1150.7	1151.5	1152.3	1151.5	1150.7	1149.9
180°	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8



TEST NUMBER: P332518-940

CATALOG NUMBER: S124DIP-S350D1035U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	499.6	498.1	496.0	492.9	490.4	487.7	487.0	486.0	488.0	486.3	485.8
5°	483.3	478.8	473.1	466.6	462.8	457.4	456.3	454.1	452.0	451.8	449.7
7.5°	465.9	459.4	451.9	445.3	439.2	433.1	429.2	428.4	425.3	423.4	421.3
10°	454.8	446.7	438.1	431.8	424.6	418.3	413.8	411.3	409.2	406.9	404.7
12.5°	441.7	433.1	426.0	419.1	410.6	405.8	398.5	394.1	393.7	393.7	388.3
15°	426.3	417.9	406.9	397.2	392.5	383.3	379.2	374.2	371.0	367.8	365.3
17.5°	408.8	398.2	389.7	378.5	369.7	362.3	357.0	354.0	349.2	344.7	341.5
20°	397.8	386.6	377.6	365.7	356.1	347.0	342.5	338.3	334.7	330.9	327.3
22.5°	386.6	375.0	363.9	352.4	343.4	333.8	329.5	323.8	320.4	318.3	314.7
25°	369.1	356.4	343.8	332.8	323.5	315.0	309.4	305.0	301.1	299.4	297.1
27.5°	350.0	337.4	325.2	312.7	302.2	296.0	291.5	288.2	286.0	283.7	282.7
30°	337.9	324.8	311.7	300.1	290.4	284.3	280.1	277.8	276.1	275.0	273.9
32.5°	325.6	312.6	298.9	288.3	279.6	274.1	270.9	268.6	267.8	267.4	267.0
35°	305.8	292.7	280.1	270.5	262.3	260.2	257.4	256.2	255.7	257.3	257.9
37.5°	286.7	274.6	262.9	253.7	248.3	245.2	244.2	244.3	245.8	247.1	248.6
40°	274.4	262.5	251.6	243.5	238.4	236.6	236.1	237.2	238.9	240.4	242.1
42.5°	262.3	250.7	240.8	233.3	229.7	227.9	228.2	229.3	231.7	233.4	235.9
45°	243.8	234.1	224.4	218.2	215.3	215.7	215.7	217.6	219.9	222.7	225.4
47.5°	226.2	216.4	208.5	203.3	201.8	201.4	202.6	205.1	208.4	211.8	215.6
50°	214.5	205.1	198.1	193.5	191.8	192.4	194.1	196.4	200.5	204.7	208.7
52.5°	202.4	193.9	187.5	183.2	182.0	183.2	184.9	188.5	192.1	196.6	201.4
55°	183.8	176.6	171.6	168.4	168.0	168.6	170.5	174.5	179.6	185.3	189.9
57.5°	165.3	159.3	154.6	152.5	152.7	153.3	156.4	161.1	166.6	172.6	178.6
60°	152.8	147.3	143.5	141.8	142.0	143.3	147.1	151.5	158.3	164.2	170.5
62.5°	141.0	136.2	132.5	131.0	130.7	133.5	137.1	141.7	148.5	155.1	161.9
65°	122.0	118.2	115.2	114.4	115.0	117.2	121.8	127.9	133.6	140.5	147.8
67.5°	103.4	100.3	98.3	98.6	99.4	102.5	106.4	111.6	118.2	125.4	132.4
70°	91.6	88.6	86.9	87.1	88.5	92.2	95.6	100.9	107.8	115.2	121.1
72.5°	79.5	77.5	76.0	76.9	78.1	80.7	85.0	90.2	96.4	103.3	109.5
75°	61.0	61.0	60.2	60.8	62.7	65.2	68.4	73.8	80.0	85.5	90.5
77.5°	45.2	44.8	45.3	46.1	47.2	50.2	53.9	57.8	62.3	67.9	72.1
80°	34.6	34.9	35.8	37.2	37.5	39.9	43.7	47.3	50.8	55.5	59.5
82.5°	26.0	26.2	26.8	28.4	28.8	31.3	33.7	37.3	40.6	43.7	47.0
85°	14.2	14.2	15.2	15.9	16.9	18.5	20.1	22.2	25.1	27.2	30.4
87.5°	7.7	8.0	9.0	9.7	10.5	11.7	12.2	14.4	15.2	16.3	18.0
90°	11.4	13.3	14.8	16.4	18.0	19.6	20.8	21.9	23.2	24.3	25.1
92.5°	29.0	30.9	31.9	33.0	34.2	35.2	35.9	36.6	37.4	38.1	38.6
95°	60.5	62.1	63.5	64.9	66.3	67.7	68.2	68.8	69.5	70.0	70.4
97.5°	99.0	100.5	102.1	103.7	105.4	107.0	107.7	108.4	109.1	109.9	110.2
100°	127.8	129.0	130.8	132.6	134.4	136.2	136.6	137.0	137.3	137.8	137.9
102.5°	158.6	159.6	161.2	162.8	164.4	166.1	166.7	167.2	167.7	168.3	168.6
105°	208.2	208.7	209.5	210.3	211.1	211.9	212.4	213.0	213.7	214.2	214.8
107.5°	260.8	261.0	261.2	261.3	261.4	261.5	262.1	262.6	263.1	263.7	263.9
110°	297.1	297.2	296.9	296.8	296.6	296.4	296.0	295.6	295.2	294.8	294.9



TEST NUMBER: P332518-940

CATALOG NUMBER: S124DIP-S350D1035U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	332.9	332.7	332.3	332.0	331.6	331.3	331.2	331.1	331.0	331.0	331.0
115°	388.1	387.9	387.4	387.1	386.6	386.3	386.1	385.8	385.7	385.5	385.3
117.5°	441.0	441.0	440.7	440.4	440.1	439.9	439.2	438.5	437.8	437.2	436.7
120°	478.5	478.6	478.0	477.3	476.8	476.2	475.2	474.2	473.2	472.3	471.9
122.5°	512.8	512.9	512.6	512.3	512.0	511.8	511.1	510.4	509.8	509.1	508.4
125°	565.2	565.1	564.9	564.7	564.5	564.3	563.9	563.5	563.1	562.7	562.3
127.5°	616.2	616.3	616.0	615.6	615.4	615.0	614.7	614.2	613.9	613.4	613.1
130°	650.3	650.6	650.6	650.6	650.6	650.6	650.2	649.9	649.4	649.1	648.5
132.5°	684.6	684.7	684.6	684.4	684.2	684.1	683.7	683.3	682.9	682.5	682.2
135°	733.7	734.3	734.3	734.3	734.3	734.3	733.9	733.5	733.1	732.7	732.2
137.5°	781.4	781.8	782.1	782.5	782.7	783.1	782.6	782.0	781.5	781.0	780.8
140°	814.2	814.4	814.4	814.4	814.4	814.4	814.2	814.0	813.8	813.6	813.4
142.5°	844.8	844.9	844.8	844.6	844.5	844.3	844.3	844.2	844.2	844.2	844.1
145°	888.8	889.2	889.5	889.7	889.8	890.0	889.8	889.7	889.5	889.2	888.9
147.5°	931.4	931.8	931.7	931.5	931.3	931.2	931.0	930.9	930.7	930.5	930.3
150°	956.4	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.7
152.5°	979.4	979.6	979.8	980.0	980.2	980.3	980.8	981.2	981.7	982.2	982.2
155°	1014.7	1014.6	1014.3	1014.1	1014.0	1013.8	1014.6	1015.4	1016.1	1016.9	1016.9
157.5°	1044.6	1044.4	1044.3	1044.3	1044.3	1044.2	1044.8	1045.4	1046.0	1046.6	1046.5
160°	1063.7	1063.5	1063.3	1063.1	1062.9	1062.7	1063.3	1063.9	1064.5	1065.1	1064.9
162.5°	1079.5	1079.1	1079.0	1078.8	1078.6	1078.3	1079.4	1080.5	1081.6	1082.6	1082.7
165°	1102.2	1101.7	1101.3	1100.9	1100.5	1100.1	1101.3	1102.5	1103.7	1104.8	1105.0
167.5°	1118.8	1118.5	1118.5	1118.6	1118.6	1118.7	1119.8	1121.0	1122.2	1123.4	1123.4
170°	1128.2	1127.7	1128.0	1128.2	1128.4	1128.5	1129.8	1131.0	1132.1	1133.4	1133.2
172.5°	1136.0	1135.5	1135.6	1135.6	1135.7	1135.7	1137.0	1138.4	1139.7	1141.1	1141.0
175°	1145.1	1144.5	1144.3	1144.1	1143.9	1143.7	1145.1	1146.5	1147.9	1149.2	1149.2
177.5°	1149.1	1148.7	1148.7	1148.7	1148.7	1148.7	1149.8	1150.9	1152.0	1153.2	1153.1
180°	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8



TEST NUMBER: P332518-940

CATALOG NUMBER: S124DIP-S350D1035U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	485.4	485.2	483.9	483.8	483.9	485.2	485.4	485.8	486.3	488.0	486.0
5°	448.4	447.4	446.7	449.1	446.7	447.4	448.4	449.7	451.8	452.0	454.1
7.5°	420.5	419.7	417.9	417.2	417.9	419.7	420.5	421.3	423.4	425.3	428.4
10°	402.7	401.8	400.1	399.7	400.1	401.8	402.7	404.7	406.9	409.2	411.3
12.5°	385.4	383.8	383.4	383.9	383.4	383.8	385.4	388.3	393.7	393.7	394.1
15°	362.6	361.7	359.4	360.1	359.4	361.7	362.6	365.3	367.8	371.0	374.2
17.5°	340.0	339.0	336.2	338.7	336.2	339.0	340.0	341.5	344.7	349.2	354.0
20°	325.8	324.1	322.7	322.4	322.7	324.1	325.8	327.3	330.9	334.7	338.3
22.5°	312.4	310.9	310.7	309.3	310.7	310.9	312.4	314.7	318.3	320.4	323.8
25°	295.4	294.0	293.6	292.5	293.6	294.0	295.4	297.1	299.4	301.1	305.0
27.5°	282.5	281.8	281.0	281.3	281.0	281.8	282.5	282.7	283.7	286.0	288.2
30°	274.6	274.4	273.9	273.9	273.9	274.4	274.6	273.9	275.0	276.1	277.8
32.5°	268.0	268.0	268.2	268.2	268.2	268.0	268.0	267.0	267.4	267.8	268.6
35°	258.8	259.4	259.8	259.1	259.8	259.4	258.8	257.9	257.3	255.7	256.2
37.5°	250.4	251.0	251.6	252.4	251.6	251.0	250.4	248.6	247.1	245.8	244.3
40°	244.0	245.4	245.8	246.9	245.8	245.4	244.0	242.1	240.4	238.9	237.2
42.5°	237.9	239.5	240.6	240.9	240.6	239.5	237.9	235.9	233.4	231.7	229.3
45°	228.5	230.2	231.8	231.8	231.8	230.2	228.5	225.4	222.7	219.9	217.6
47.5°	218.9	221.3	222.8	223.2	222.8	221.3	218.9	215.6	211.8	208.4	205.1
50°	212.3	215.3	216.8	217.8	216.8	215.3	212.3	208.7	204.7	200.5	196.4
52.5°	205.9	208.8	210.8	211.3	210.8	208.8	205.9	201.4	196.6	192.1	188.5
55°	194.7	199.0	201.3	202.2	201.3	199.0	194.7	189.9	185.3	179.6	174.5
57.5°	184.3	188.2	190.9	191.5	190.9	188.2	184.3	178.6	172.6	166.6	161.1
60°	176.2	180.5	183.8	184.4	183.8	180.5	176.2	170.5	164.2	158.3	151.5
62.5°	167.9	172.4	175.4	177.0	175.4	172.4	167.9	161.9	155.1	148.5	141.7
65°	153.6	158.1	161.0	161.7	161.0	158.1	153.6	147.8	140.5	133.6	127.9
67.5°	138.0	142.5	144.4	145.6	144.4	142.5	138.0	132.4	125.4	118.2	111.6
70°	127.1	130.6	132.8	133.8	132.8	130.6	127.1	121.1	115.2	107.8	100.9
72.5°	114.6	118.3	120.7	121.0	120.7	118.3	114.6	109.5	103.3	96.4	90.2
75°	95.4	98.8	100.0	100.0	100.0	98.8	95.4	90.5	85.5	80.0	73.8
77.5°	75.5	77.2	78.8	79.2	78.8	77.2	75.5	72.1	67.9	62.3	57.8
80°	62.7	63.8	65.0	65.0	65.0	63.8	62.7	59.5	55.5	50.8	47.3
82.5°	49.5	50.4	51.6	51.5	51.6	50.4	49.5	47.0	43.7	40.6	37.3
85°	30.0	31.8	31.7	31.2	31.7	31.8	30.0	30.4	27.2	25.1	22.2
87.5°	18.6	18.8	19.4	19.9	19.4	18.8	18.6	18.0	16.3	15.2	14.4
90°	25.5	25.9	26.3	26.7	26.3	25.9	25.5	25.1	24.3	23.2	21.9
92.5°	38.8	39.1	39.3	39.5	39.3	39.1	38.8	38.6	38.1	37.4	36.6
95°	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.0	69.5	68.8
97.5°	110.2	110.2	110.2	110.2	110.2	110.2	110.2	110.2	109.9	109.1	108.4
100°	137.9	137.9	137.9	137.9	137.9	137.9	137.9	137.9	137.8	137.3	137.0
102.5°	168.8	169.0	169.2	169.2	169.2	169.0	168.8	168.6	168.3	167.7	167.2
105°	215.3	216.0	216.6	217.1	216.6	216.0	215.3	214.8	214.2	213.7	213.0
107.5°	263.9	263.9	263.9	263.8	263.9	263.9	263.9	263.9	263.7	263.1	262.6
110°	295.5	296.0	296.7	297.3	296.7	296.0	295.5	294.9	294.8	295.2	295.6



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	331.1	331.2	331.4	331.4	331.4	331.2	331.1	331.0	331.0	331.0	331.1
115°	385.1	384.9	384.7	384.5	384.7	384.9	385.1	385.3	385.5	385.7	385.8
117.5°	436.2	435.9	435.4	435.1	435.4	435.9	436.2	436.7	437.2	437.8	438.5
120°	472.3	472.7	473.1	473.5	473.1	472.7	472.3	471.9	472.3	473.2	474.2
122.5°	507.7	506.9	506.2	505.5	506.2	506.9	507.7	508.4	509.1	509.8	510.4
125°	562.0	561.5	561.2	560.7	561.2	561.5	562.0	562.3	562.7	563.1	563.5
127.5°	612.8	612.4	612.2	611.8	612.2	612.4	612.8	613.1	613.4	613.9	614.2
130°	647.6	646.8	646.0	645.2	646.0	646.8	647.6	648.5	649.1	649.4	649.9
132.5°	681.8	681.5	681.2	680.9	681.2	681.5	681.8	682.2	682.5	682.9	683.3
135°	731.6	731.0	730.4	729.9	730.4	731.0	731.6	732.2	732.7	733.1	733.5
137.5°	781.0	781.0	781.1	781.3	781.1	781.0	781.0	780.8	781.0	781.5	782.0
140°	813.2	813.0	812.8	812.6	812.8	813.0	813.2	813.4	813.6	813.8	814.0
142.5°	844.1	844.0	844.0	843.9	844.0	844.0	844.1	844.1	844.2	844.2	844.2
145°	888.2	887.7	887.1	886.4	887.1	887.7	888.2	888.9	889.2	889.5	889.7
147.5°	930.1	930.0	929.8	929.6	929.8	930.0	930.1	930.3	930.5	930.7	930.9
150°	956.5	956.3	956.1	955.9	956.1	956.3	956.5	956.7	956.8	956.8	956.8
152.5°	981.7	981.1	980.6	980.1	980.6	981.1	981.7	982.2	982.2	981.7	981.2
155°	1016.1	1015.4	1014.6	1013.8	1014.6	1015.4	1016.1	1016.9	1016.9	1016.1	1015.4
157.5°	1045.9	1045.2	1044.6	1043.8	1044.6	1045.2	1045.9	1046.5	1046.6	1046.0	1045.4
160°	1063.9	1062.9	1061.9	1061.0	1061.9	1062.9	1063.9	1064.9	1065.1	1064.5	1063.9
162.5°	1081.7	1080.8	1079.8	1078.7	1079.8	1080.8	1081.7	1082.7	1082.6	1081.6	1080.5
165°	1104.3	1103.5	1102.7	1101.9	1102.7	1103.5	1104.3	1105.0	1104.8	1103.7	1102.5
167.5°	1122.1	1120.9	1119.6	1118.5	1119.6	1120.9	1122.1	1123.4	1123.4	1122.2	1121.0
170°	1131.8	1130.4	1129.1	1127.7	1129.1	1130.4	1131.8	1133.2	1133.4	1132.1	1131.0
172.5°	1139.7	1138.3	1136.9	1135.5	1136.9	1138.3	1139.7	1141.0	1141.1	1139.7	1138.4
175°	1147.9	1146.5	1145.1	1143.7	1145.1	1146.5	1147.9	1149.2	1149.2	1147.9	1146.5
177.5°	1151.8	1150.5	1149.2	1148.0	1149.2	1150.5	1151.8	1153.1	1153.2	1152.0	1150.9
180°	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8



TEST NUMBER: P332518-940

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	487.0	487.7	490.4	492.9	496.0	498.1	499.6	501.3	504.9	507.7	510.5
5°	456.3	457.4	462.8	466.6	473.1	478.8	483.3	488.1	493.8	501.7	508.8
7.5°	429.2	433.1	439.2	445.3	451.9	459.4	465.9	473.2	483.0	493.8	504.9
10°	413.8	418.3	424.6	431.8	438.1	446.7	454.8	463.4	474.7	487.7	500.8
12.5°	398.5	405.8	410.6	419.1	426.0	433.1	441.7	453.0	466.0	479.7	495.5
15°	379.2	383.3	392.5	397.2	406.9	417.9	426.3	437.7	450.3	468.5	486.2
17.5°	357.0	362.3	369.7	378.5	389.7	398.2	408.8	420.5	436.5	454.5	476.7
20°	342.5	347.0	356.1	365.7	377.6	386.6	397.8	409.2	425.7	444.9	468.1
22.5°	329.5	333.8	343.4	352.4	363.9	375.0	386.6	399.9	415.7	436.0	459.7
25°	309.4	315.0	323.5	332.8	343.8	356.4	369.1	380.9	397.8	419.1	444.4
27.5°	291.5	296.0	302.2	312.7	325.2	337.4	350.0	364.9	381.1	403.7	429.9
30°	280.1	284.3	290.4	300.1	311.7	324.8	337.9	352.2	369.1	391.5	418.3
32.5°	270.9	274.1	279.6	288.3	298.9	312.6	325.6	340.4	358.1	380.1	406.3
35°	257.4	260.2	262.3	270.5	280.1	292.7	305.8	321.6	338.8	359.6	385.8
37.5°	244.2	245.2	248.3	253.7	262.9	274.6	286.7	302.3	319.8	341.0	364.6
40°	236.1	236.6	238.4	243.5	251.6	262.5	274.4	289.7	306.4	326.5	349.9
42.5°	228.2	227.9	229.7	233.3	240.8	250.7	262.3	276.4	293.1	311.7	333.7
45°	215.7	215.7	215.3	218.2	224.4	234.1	243.8	257.3	271.2	289.4	307.9
47.5°	202.6	201.4	201.8	203.3	208.5	216.4	226.2	237.3	249.6	264.9	281.2
50°	194.1	192.4	191.8	193.5	198.1	205.1	214.5	224.1	235.8	249.2	263.1
52.5°	184.9	183.2	182.0	183.2	187.5	193.9	202.4	211.0	221.4	232.4	244.4
55°	170.5	168.6	168.0	168.4	171.6	176.6	183.8	191.6	199.5	208.5	217.0
57.5°	156.4	153.3	152.7	152.5	154.6	159.3	165.3	172.0	177.7	183.2	192.3
60°	147.1	143.3	142.0	141.8	143.5	147.3	152.8	159.5	163.5	167.4	175.1
62.5°	137.1	133.5	130.7	131.0	132.5	136.2	141.0	145.9	148.6	152.7	157.9
65°	121.8	117.2	115.0	114.4	115.2	118.2	122.0	125.1	128.1	129.8	134.8
67.5°	106.4	102.5	99.4	98.6	98.3	100.3	103.4	105.3	107.5	108.9	111.9
70°	95.6	92.2	88.5	87.1	86.9	88.6	91.6	91.8	94.8	95.4	98.5
72.5°	85.0	80.7	78.1	76.9	76.0	77.5	79.5	80.0	81.6	82.8	84.4
75°	68.4	65.2	62.7	60.8	60.2	61.0	61.0	62.1	63.1	63.8	65.6
77.5°	53.9	50.2	47.2	46.1	45.3	44.8	45.2	45.9	45.4	46.5	46.9
80°	43.7	39.9	37.5	37.2	35.8	34.9	34.6	35.2	34.4	34.9	36.1
82.5°	33.7	31.3	28.8	28.4	26.8	26.2	26.0	25.6	25.6	25.5	25.8
85°	20.1	18.5	16.9	15.9	15.2	14.2	14.2	13.7	13.3	12.8	13.1
87.5°	12.2	11.7	10.5	9.7	9.0	8.0	7.7	6.8	6.2	5.5	4.9
90°	20.8	19.6	18.0	16.4	14.8	13.3	11.4	9.2	7.0	4.8	2.7
92.5°	35.9	35.2	34.2	33.0	31.9	30.9	29.0	26.5	24.0	21.6	19.1
95°	68.2	67.7	66.3	64.9	63.5	62.1	60.5	58.8	57.0	55.2	53.4
97.5°	107.7	107.0	105.4	103.7	102.1	100.5	99.0	97.6	96.1	94.7	93.3
100°	136.6	136.2	134.4	132.6	130.8	129.0	127.8	127.0	126.2	125.4	124.6
102.5°	166.7	166.1	164.4	162.8	161.2	159.6	158.6	158.3	158.0	157.7	157.4
105°	212.4	211.9	211.1	210.3	209.5	208.7	208.2	207.9	207.8	207.6	207.4
107.5°	262.1	261.5	261.4	261.3	261.2	261.0	260.8	260.6	260.4	260.1	259.9
110°	296.0	296.4	296.6	296.8	296.9	297.2	297.1	296.7	296.3	295.9	295.5



TEST NUMBER: P332518-940

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	331.2	331.3	331.6	332.0	332.3	332.7	332.9	332.8	332.7	332.6	332.5
115°	386.1	386.3	386.6	387.1	387.4	387.9	388.1	388.1	388.1	388.1	388.1
117.5°	439.2	439.9	440.1	440.4	440.7	441.0	441.0	440.9	440.7	440.6	440.4
120°	475.2	476.2	476.8	477.3	478.0	478.6	478.5	477.7	476.9	476.1	475.3
122.5°	511.1	511.8	512.0	512.3	512.6	512.9	512.8	512.6	512.2	511.9	511.6
125°	563.9	564.3	564.5	564.7	564.9	565.1	565.2	565.2	565.2	565.2	565.2
127.5°	614.7	615.0	615.4	615.6	616.0	616.3	616.2	615.5	614.9	614.4	613.8
130°	650.2	650.6	650.6	650.6	650.6	650.6	650.3	649.7	649.2	648.5	647.9
132.5°	683.7	684.1	684.2	684.4	684.6	684.7	684.6	684.1	683.7	683.3	682.9
135°	733.9	734.3	734.3	734.3	734.3	734.3	733.7	732.5	731.3	730.1	729.0
137.5°	782.6	783.1	782.7	782.5	782.1	781.8	781.4	780.8	780.2	779.7	779.2
140°	814.2	814.4	814.4	814.4	814.4	814.4	814.2	813.8	813.4	813.0	812.6
142.5°	844.3	844.3	844.5	844.6	844.8	844.9	844.8	844.5	844.0	843.6	843.2
145°	889.8	890.0	889.8	889.7	889.5	889.2	888.8	888.0	887.2	886.4	885.6
147.5°	931.0	931.2	931.3	931.5	931.7	931.8	931.4	930.5	929.5	928.5	927.6
150°	956.8	956.8	956.8	956.8	956.8	956.8	956.4	955.6	954.8	954.0	953.2
152.5°	980.8	980.3	980.2	980.0	979.8	979.6	979.4	978.9	978.4	977.9	977.5
155°	1014.6	1013.8	1014.0	1014.1	1014.3	1014.6	1014.7	1014.7	1014.7	1014.7	1014.7
157.5°	1044.8	1044.2	1044.3	1044.3	1044.3	1044.4	1044.6	1044.9	1045.3	1045.6	1046.0
160°	1063.3	1062.7	1062.9	1063.1	1063.3	1063.5	1063.7	1063.9	1064.1	1064.3	1064.5
162.5°	1079.4	1078.3	1078.6	1078.8	1079.0	1079.1	1079.5	1080.0	1080.6	1081.1	1081.6
165°	1101.3	1100.1	1100.5	1100.9	1101.3	1101.7	1102.2	1102.8	1103.4	1103.9	1104.6
167.5°	1119.8	1118.7	1118.6	1118.6	1118.5	1118.5	1118.8	1119.7	1120.5	1121.3	1122.2
170°	1129.8	1128.5	1128.4	1128.2	1128.0	1127.7	1128.2	1129.2	1130.2	1131.1	1132.1
172.5°	1137.0	1135.7	1135.7	1135.6	1135.6	1135.5	1136.0	1136.8	1137.6	1138.4	1139.2
175°	1145.1	1143.7	1143.9	1144.1	1144.3	1144.5	1145.1	1146.1	1147.1	1148.1	1149.1
177.5°	1149.8	1148.7	1148.7	1148.7	1148.7	1148.7	1149.1	1149.9	1150.7	1151.5	1152.3
180°	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8



TEST NUMBER: P332518-940

CATALOG NUMBER: S124DIP-S350D1035U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	512.8	514.5	516.7	520.4	521.7	523.4	525.8	525.7	526.3	528.9	534.2
5°	514.7	521.3	527.6	535.2	543.2	548.5	555.6	560.1	564.5	570.2	580.0
7.5°	515.5	525.8	537.4	550.8	562.7	576.3	587.0	597.1	606.2	618.1	629.7
10°	514.3	528.2	543.2	560.1	578.0	593.3	607.0	622.6	635.9	650.4	663.5
12.5°	512.1	528.9	548.9	567.8	588.8	611.3	628.4	644.2	661.8	678.6	698.8
15°	507.1	530.1	553.6	578.5	606.5	632.5	657.2	677.6	696.6	721.8	748.1
17.5°	500.8	525.6	555.2	585.3	614.7	644.3	674.8	705.6	729.6	760.8	781.4
20°	494.9	523.6	554.0	589.9	619.2	656.1	686.5	716.2	749.2	780.2	804.9
22.5°	486.6	518.0	550.3	585.9	624.6	661.6	696.6	728.9	761.9	795.6	825.5
25°	476.1	504.6	542.8	583.3	621.7	661.8	702.1	742.6	778.1	813.8	841.6
27.5°	458.3	494.2	529.8	571.6	614.2	659.6	702.8	745.1	782.3	811.6	828.8
30°	449.1	480.4	519.0	561.0	607.2	655.9	700.9	742.4	777.0	800.5	807.4
32.5°	435.6	467.8	505.6	549.1	598.1	648.2	694.9	734.1	763.0	775.3	767.0
35°	415.5	444.7	482.9	527.4	578.3	631.6	677.9	711.0	725.8	714.2	685.3
37.5°	391.5	420.4	458.7	502.5	555.1	609.4	651.1	675.0	670.1	641.2	598.2
40°	374.6	401.6	438.1	485.4	536.6	591.1	627.9	640.7	627.2	585.9	540.0
42.5°	355.9	382.2	418.8	464.5	518.8	569.0	601.0	602.1	579.4	529.9	484.0
45°	327.3	352.4	387.0	434.5	484.7	532.0	553.1	542.8	501.0	453.3	407.1
47.5°	299.2	320.9	355.1	400.1	447.8	487.6	498.1	479.5	435.0	388.6	345.8
50°	278.6	300.5	332.6	375.7	421.7	456.0	461.1	436.4	392.7	346.1	312.5
52.5°	258.8	280.6	311.5	351.3	393.4	424.5	424.6	396.1	352.6	311.0	279.8
55°	229.8	249.4	277.3	313.0	350.5	374.8	368.9	339.4	301.6	265.5	238.3
57.5°	201.9	219.0	244.6	274.4	307.5	327.5	317.7	289.3	255.6	224.9	204.3
60°	183.8	200.1	222.0	250.1	277.9	293.6	284.3	258.5	227.5	202.8	184.9
62.5°	166.2	179.9	201.1	225.4	251.3	262.8	254.6	229.2	202.3	180.0	165.4
65°	141.4	152.6	169.4	190.4	209.1	219.1	212.1	188.4	168.0	151.9	140.4
67.5°	118.2	126.9	139.7	156.5	172.5	177.8	171.5	155.0	137.7	124.8	116.6
70°	102.1	110.4	121.1	134.0	147.9	153.6	147.3	134.2	120.1	108.3	100.2
72.5°	88.1	94.5	103.6	114.6	125.5	131.2	126.9	114.3	102.4	93.5	86.8
75°	67.1	72.6	78.9	86.8	95.1	99.0	95.1	86.5	78.3	71.8	66.9
77.5°	48.8	51.7	56.6	62.5	67.8	70.6	67.3	61.5	56.4	52.0	49.6
80°	37.2	39.2	42.6	47.3	50.8	53.6	51.5	46.6	42.6	39.7	38.6
82.5°	27.0	28.4	30.7	34.1	36.5	37.9	37.0	33.4	31.8	29.2	28.2
85°	13.3	14.2	15.6	16.7	18.8	19.0	19.2	17.7	16.2	15.6	14.8
87.5°	5.5	6.2	7.0	8.0	9.1	9.5	9.7	10.0	9.6	9.7	9.3
90°	4.8	7.0	9.2	11.4	13.3	14.8	16.4	18.0	19.6	20.8	21.9
92.5°	21.6	24.0	26.5	29.0	30.9	31.9	33.0	34.2	35.2	35.9	36.6
95°	55.2	57.0	58.8	60.5	62.1	63.5	64.9	66.3	67.7	68.2	68.8
97.5°	94.7	96.1	97.6	99.0	100.5	102.1	103.7	105.4	107.0	107.7	108.4
100°	125.4	126.2	127.0	127.8	129.0	130.8	132.6	134.4	136.2	136.6	137.0
102.5°	157.7	158.0	158.3	158.6	159.6	161.2	162.8	164.4	166.1	166.7	167.2
105°	207.6	207.8	207.9	208.2	208.7	209.5	210.3	211.1	211.9	212.4	213.0
107.5°	260.1	260.4	260.6	260.8	261.0	261.2	261.3	261.4	261.5	262.1	262.6
110°	295.9	296.3	296.7	297.1	297.2	296.9	296.8	296.6	296.4	296.0	295.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	332.6	332.7	332.8	332.9	332.7	332.3	332.0	331.6	331.3	331.2	331.1
115°	388.1	388.1	388.1	388.1	387.9	387.4	387.1	386.6	386.3	386.1	385.8
117.5°	440.6	440.7	440.9	441.0	441.0	440.7	440.4	440.1	439.9	439.2	438.5
120°	476.1	476.9	477.7	478.5	478.6	478.0	477.3	476.8	476.2	475.2	474.2
122.5°	511.9	512.2	512.6	512.8	512.9	512.6	512.3	512.0	511.8	511.1	510.4
125°	565.2	565.2	565.2	565.2	565.1	564.9	564.7	564.5	564.3	563.9	563.5
127.5°	614.4	614.9	615.5	616.2	616.3	616.0	615.6	615.4	615.0	614.7	614.2
130°	648.5	649.2	649.7	650.3	650.6	650.6	650.6	650.6	650.6	650.2	649.9
132.5°	683.3	683.7	684.1	684.6	684.7	684.6	684.4	684.2	684.1	683.7	683.3
135°	730.1	731.3	732.5	733.7	734.3	734.3	734.3	734.3	734.3	733.9	733.5
137.5°	779.7	780.2	780.8	781.4	781.8	782.1	782.5	782.7	783.1	782.6	782.0
140°	813.0	813.4	813.8	814.2	814.4	814.4	814.4	814.4	814.4	814.2	814.0
142.5°	843.6	844.0	844.5	844.8	844.9	844.8	844.6	844.5	844.3	844.3	844.2
145°	886.4	887.2	888.0	888.8	889.2	889.5	889.7	889.8	890.0	889.8	889.7
147.5°	928.5	929.5	930.5	931.4	931.8	931.7	931.5	931.3	931.2	931.0	930.9
150°	954.0	954.8	955.6	956.4	956.8	956.8	956.8	956.8	956.8	956.8	956.8
152.5°	977.9	978.4	978.9	979.4	979.6	979.8	980.0	980.2	980.3	980.8	981.2
155°	1014.7	1014.7	1014.7	1014.7	1014.6	1014.3	1014.1	1014.0	1013.8	1014.6	1015.4
157.5°	1045.6	1045.3	1044.9	1044.6	1044.4	1044.3	1044.3	1044.3	1044.2	1044.8	1045.4
160°	1064.3	1064.1	1063.9	1063.7	1063.5	1063.3	1063.1	1062.9	1062.7	1063.3	1063.9
162.5°	1081.1	1080.6	1080.0	1079.5	1079.1	1079.0	1078.8	1078.6	1078.3	1079.4	1080.5
165°	1103.9	1103.4	1102.8	1102.2	1101.7	1101.3	1100.9	1100.5	1100.1	1101.3	1102.5
167.5°	1121.3	1120.5	1119.7	1118.8	1118.5	1118.5	1118.6	1118.6	1118.7	1119.8	1121.0
170°	1131.1	1130.2	1129.2	1128.2	1127.7	1128.0	1128.2	1128.4	1128.5	1129.8	1131.0
172.5°	1138.4	1137.6	1136.8	1136.0	1135.5	1135.6	1135.6	1135.7	1135.7	1137.0	1138.4
175°	1148.1	1147.1	1146.1	1145.1	1144.5	1144.3	1144.1	1143.9	1143.7	1145.1	1146.5
177.5°	1151.5	1150.7	1149.9	1149.1	1148.7	1148.7	1148.7	1148.7	1148.7	1149.8	1150.9
180°	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	537.0	537.3	538.9	540.0	540.4	542.1	542.2
5°	584.2	587.7	594.7	595.3	596.4	601.9	597.6
7.5°	639.4	648.5	654.6	660.0	661.9	664.3	663.9
10°	674.9	688.4	695.2	706.0	706.3	709.1	707.4
12.5°	710.5	726.2	738.5	740.6	749.6	751.0	753.3
15°	761.0	777.7	794.8	800.9	813.3	816.3	820.9
17.5°	808.4	825.5	837.5	853.3	858.4	865.2	860.6
20°	834.5	853.0	868.3	880.7	885.9	889.7	889.3
22.5°	850.2	868.9	881.2	890.6	895.5	897.2	897.1
25°	860.0	870.8	874.6	878.2	872.6	870.8	871.6
27.5°	832.6	829.8	819.9	806.9	793.4	782.7	776.9
30°	795.0	778.6	763.6	737.4	723.9	715.9	708.6
32.5°	741.6	715.5	686.7	662.7	647.4	635.5	633.7
35°	650.2	611.0	575.7	546.4	531.2	518.4	515.3
37.5°	552.8	512.0	480.3	454.4	438.1	429.0	420.5
40°	488.1	453.1	421.9	399.9	387.4	380.9	375.7
42.5°	438.4	406.4	375.2	358.6	347.3	343.3	340.2
45°	369.5	339.7	318.3	305.6	299.1	292.3	289.1
47.5°	314.4	290.3	276.1	265.3	258.2	254.2	252.3
50°	283.2	263.4	250.7	242.5	236.1	233.0	231.3
52.5°	255.6	239.2	228.6	222.0	217.8	215.4	214.7
55°	220.1	207.7	200.9	195.2	192.1	189.9	189.1
57.5°	191.4	181.7	176.3	171.6	170.3	168.6	168.0
60°	172.5	165.1	160.4	157.2	156.1	154.1	154.4
62.5°	155.7	149.6	145.7	143.9	142.5	140.7	141.3
65°	131.7	127.2	125.1	123.5	121.8	120.7	121.5
67.5°	110.5	107.5	104.6	103.6	102.8	102.6	101.7
70°	96.7	94.2	91.6	91.0	91.0	90.2	89.9
72.5°	83.3	81.5	79.8	79.3	78.6	79.0	78.1
75°	64.4	62.9	62.2	61.6	61.4	61.4	60.8
77.5°	47.5	46.5	45.5	45.5	44.7	44.4	44.3
80°	36.1	35.7	34.9	34.9	34.4	34.6	34.2
82.5°	27.1	26.6	26.4	26.0	25.4	25.5	25.1
85°	14.5	13.9	13.7	13.1	12.7	13.1	12.7
87.5°	9.7	9.7	9.7	9.5	9.4	9.5	9.1
90°	23.2	24.3	25.1	25.5	25.9	26.3	26.7
92.5°	37.4	38.1	38.6	38.8	39.1	39.3	39.5
95°	69.5	70.0	70.4	70.4	70.4	70.4	70.4
97.5°	109.1	109.9	110.2	110.2	110.2	110.2	110.2
100°	137.3	137.8	137.9	137.9	137.9	137.9	137.9
102.5°	167.7	168.3	168.6	168.8	169.0	169.2	169.2
105°	213.7	214.2	214.8	215.3	216.0	216.6	217.1
107.5°	263.1	263.7	263.9	263.9	263.9	263.9	263.8
110°	295.2	294.8	294.9	295.5	296.0	296.7	297.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	331.0	331.0	331.0	331.1	331.2	331.4	331.4
115°	385.7	385.5	385.3	385.1	384.9	384.7	384.5
117.5°	437.8	437.2	436.7	436.2	435.9	435.4	435.1
120°	473.2	472.3	471.9	472.3	472.7	473.1	473.5
122.5°	509.8	509.1	508.4	507.7	506.9	506.2	505.5
125°	563.1	562.7	562.3	562.0	561.5	561.2	560.7
127.5°	613.9	613.4	613.1	612.8	612.4	612.2	611.8
130°	649.4	649.1	648.5	647.6	646.8	646.0	645.2
132.5°	682.9	682.5	682.2	681.8	681.5	681.2	680.9
135°	733.1	732.7	732.2	731.6	731.0	730.4	729.9
137.5°	781.5	781.0	780.8	781.0	781.0	781.1	781.3
140°	813.8	813.6	813.4	813.2	813.0	812.8	812.6
142.5°	844.2	844.2	844.1	844.1	844.0	844.0	843.9
145°	889.5	889.2	888.9	888.2	887.7	887.1	886.4
147.5°	930.7	930.5	930.3	930.1	930.0	929.8	929.6
150°	956.8	956.8	956.7	956.5	956.3	956.1	955.9
152.5°	981.7	982.2	982.2	981.7	981.1	980.6	980.1
155°	1016.1	1016.9	1016.9	1016.1	1015.4	1014.6	1013.8
157.5°	1046.0	1046.6	1046.5	1045.9	1045.2	1044.6	1043.8
160°	1064.5	1065.1	1064.9	1063.9	1062.9	1061.9	1061.0
162.5°	1081.6	1082.6	1082.7	1081.7	1080.8	1079.8	1078.7
165°	1103.7	1104.8	1105.0	1104.3	1103.5	1102.7	1101.9
167.5°	1122.2	1123.4	1123.4	1122.1	1120.9	1119.6	1118.5
170°	1132.1	1133.4	1133.2	1131.8	1130.4	1129.1	1127.7
172.5°	1139.7	1141.1	1141.0	1139.7	1138.3	1136.9	1135.5
175°	1147.9	1149.2	1149.2	1147.9	1146.5	1145.1	1143.7
177.5°	1152.0	1153.2	1153.1	1151.8	1150.5	1149.2	1148.0
180°	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8	1150.8

(END OF REPORT)