

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: P332109-930

Luminaire Tested: **S123DIW-S340D1320U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332109-930
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-S340D1320U930-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1320 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4916.8 lumens
Efficiency: N/A
Efficacy: 105.5 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

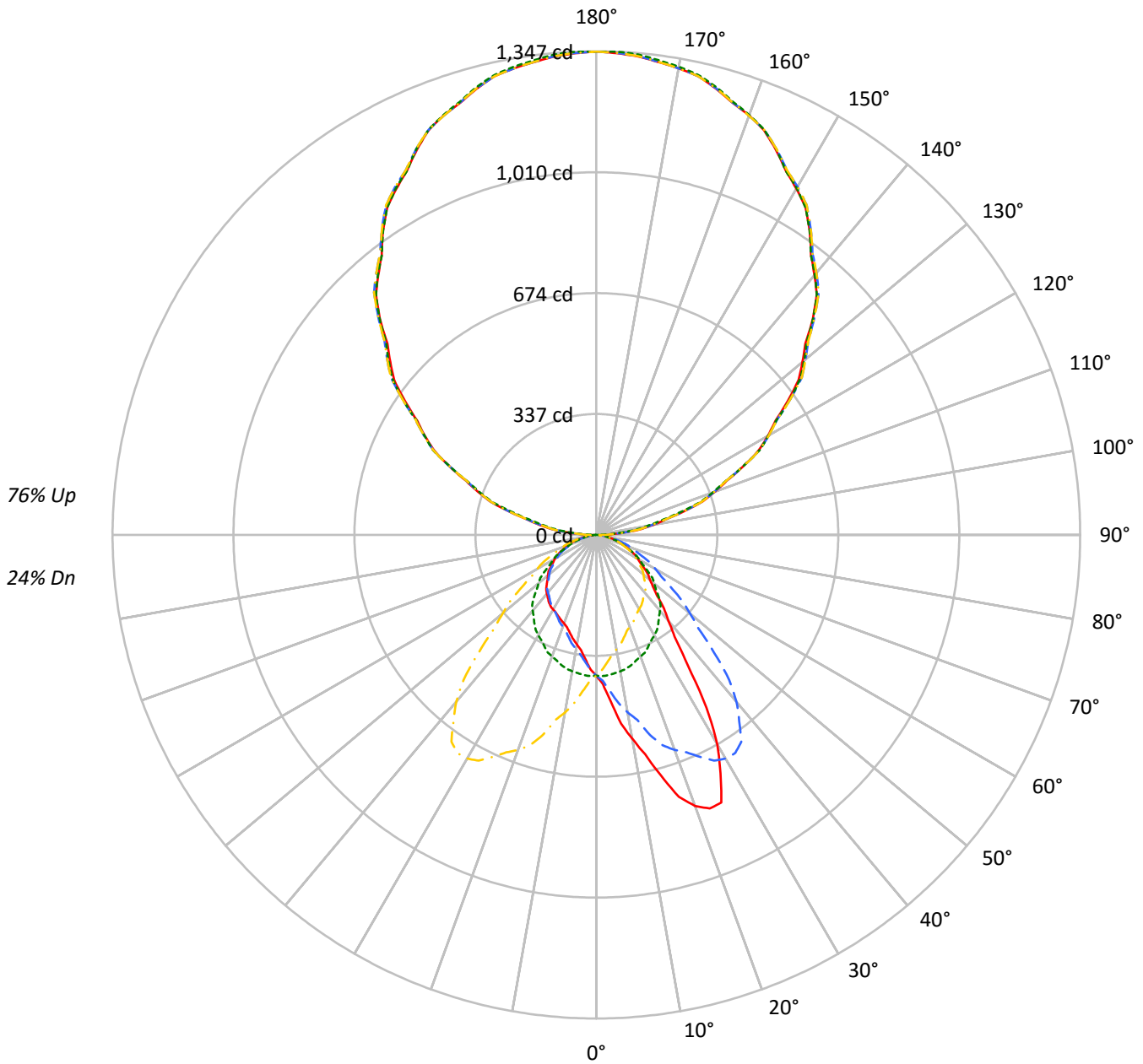
Input Watts (W): 46.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - · - · 135°-315°



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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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	32	32	32	24
1	92	88	84	81	82	78	75	73	60	58	57	44	43	42	29	28	27	21
2	84	77	71	66	74	69	64	60	53	50	47	39	37	35	25	24	23	17
3	77	68	61	55	68	60	55	50	47	43	40	34	32	30	23	21	20	15
4	70	60	52	47	62	53	47	42	42	37	34	31	28	25	20	19	17	13
5	64	53	45	40	57	48	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	40	34	52	43	36	31	33	29	25	25	21	19	17	15	13	10
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	12	9
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	14	12	10	8
9	47	35	28	23	42	32	25	21	25	20	17	19	16	13	13	11	9	7
10	44	32	25	21	39	29	23	19	23	18	15	17	14	12	12	10	9	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4219	4219	4219	4219
5°	5032	4238	3756	4238
10°	6299	4217	3393	4217
15°	7725	4182	3158	4182
20°	9203	4129	3007	4129
25°	9772	4065	2973	4065
30°	8376	4018	2988	4018
35°	5825	3951	3020	3951
40°	4388	3873	3011	3873
45°	3643	3755	2973	3755
50°	3264	3518	2946	3518
55°	3051	3262	2909	3262
60°	2863	2992	2878	2992
65°	2690	2728	2786	2728
70°	2521	2426	2653	2426
75°	2258	2125	2433	2125
80°	1977	1742	2095	1742
85°	1556	1272	1408	1272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.6	0.8
10°-20°	123.8	2.5
20°-30°	207.8	4.2
30°-40°	235.3	4.8
40°-50°	211.0	4.3
50°-60°	170.3	3.5
60°-70°	118.7	2.4
70°-80°	62.4	1.3
80°-90°	19.2	0.4
90°-100°	87.7	1.8
100°-110°	262.5	5.3
110°-120°	446.4	9.1
120°-130°	587.2	11.9
130°-140°	660.0	13.4
140°-150°	648.8	13.2
150°-160°	546.2	11.1
160°-170°	363.6	7.4
170°-180°	127.3	2.6
0°-30°	370.3	7.5
0°-40°	605.6	12.3
0°-60°	986.9	20.1
0°-90°	1187.2	24.1
90°-120°	796.6	16.2
90°-150°	2692.5	54.8
90°-180°	3730.0	75.9
0°-180°	4916.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	392	392	392	392	392	
5°	466	392	348	392	466	48
15°	693	375	283	375	693	200
25°	823	342	250	342	823	361
35°	443	301	230	301	443	288
45°	239	247	195	247	239	189
55°	163	174	155	174	163	146
65°	106	107	109	107	106	105
75°	54	51	58	51	54	58
85°	13	10	11	10	13	16
90°	32	1	32	1	32	16
95°	82	62	82	62	82	85
105°	252	238	252	238	252	267
115°	450	449	450	449	450	446
125°	650	658	650	658	650	581
135°	852	853	852	853	852	655
145°	1035	1035	1035	1035	1035	646
155°	1183	1185	1183	1185	1183	545
165°	1287	1291	1287	1291	1287	363
175°	1338	1343	1338	1343	1338	127
180°	1346	1346	1346	1346	1346	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0
2.5°	416.0	415.7	415.0	415.6	414.3	412.7	412.5	411.0	406.6	406.3	405.1
5°	465.7	464.2	464.0	463.8	461.1	457.5	450.7	450.1	441.0	436.5	431.0
7.5°	530.1	530.8	528.1	525.7	517.6	512.2	504.8	495.5	484.3	472.9	465.4
10°	576.3	582.5	574.8	569.4	564.5	555.2	544.4	530.8	517.4	501.7	489.7
12.5°	625.8	628.8	627.3	622.3	614.7	600.5	581.3	566.4	554.0	527.7	517.1
15°	693.2	704.8	697.4	680.4	680.7	667.2	642.2	614.7	600.0	577.0	545.7
17.5°	765.2	766.5	763.4	749.2	739.7	721.1	698.0	671.6	642.0	614.2	580.9
20°	803.4	802.3	795.7	788.2	771.9	757.5	732.2	702.8	664.8	637.4	601.1
22.5°	824.7	822.8	819.6	813.4	799.9	784.4	761.7	729.5	693.3	655.7	613.8
25°	822.8	825.2	825.7	823.9	819.2	809.9	792.1	766.4	730.3	681.8	638.2
27.5°	748.4	751.9	762.0	771.0	781.1	791.3	789.9	777.2	750.5	708.7	655.3
30°	673.9	666.3	685.1	708.8	725.0	753.5	769.4	770.4	755.4	719.5	667.4
32.5°	570.5	578.9	587.3	616.4	651.8	683.7	715.5	741.0	744.0	720.1	674.6
35°	443.3	453.8	469.0	484.1	522.1	554.8	610.7	659.3	698.0	703.1	675.2
37.5°	357.3	362.4	372.0	387.3	412.1	450.9	494.0	555.5	611.6	653.4	655.2
40°	312.3	313.8	324.6	336.1	356.3	388.2	427.1	481.5	548.7	607.1	631.4
42.5°	278.5	281.8	286.5	297.6	313.6	337.6	373.8	418.7	480.4	547.5	595.0
45°	239.3	243.1	246.0	253.4	264.8	281.0	306.1	347.2	394.1	463.4	527.4
47.5°	213.4	213.7	215.8	221.4	229.2	241.3	259.2	285.5	328.6	384.8	450.5
50°	194.9	197.9	198.7	203.0	209.1	218.0	232.8	255.3	290.6	340.0	400.4
52.5°	181.8	182.7	184.8	188.0	193.3	200.2	213.1	230.6	258.4	300.5	356.0
55°	162.6	162.6	164.7	167.1	170.2	176.4	185.0	197.9	219.0	251.7	297.7
57.5°	144.8	145.8	147.2	148.0	150.6	154.7	161.8	171.7	187.4	212.5	249.1
60°	133.0	134.7	134.4	136.0	138.3	141.5	147.6	155.6	169.6	189.7	220.5
62.5°	122.6	122.5	122.5	124.3	126.5	129.6	133.6	140.5	152.5	170.3	196.5
65°	105.6	105.3	106.6	107.7	108.4	110.7	113.7	119.8	127.8	141.1	161.4
67.5°	90.5	89.4	90.1	90.5	91.8	93.6	96.4	100.2	106.5	117.2	132.5
70°	80.1	79.2	79.0	79.4	80.6	81.9	84.0	87.6	93.4	102.0	113.2
72.5°	69.5	68.9	68.8	69.7	70.2	71.1	72.6	75.8	80.6	87.0	97.4
75°	54.3	54.3	54.3	54.5	55.1	55.8	57.0	58.7	62.3	66.9	73.9
77.5°	40.7	40.7	40.4	40.4	41.3	41.6	41.8	43.5	45.5	48.5	53.6
80°	31.9	31.0	31.3	31.9	32.3	32.4	33.0	33.4	35.1	36.9	40.4
82.5°	23.7	22.9	23.0	23.9	24.0	24.1	24.7	25.2	25.8	27.4	29.4
85°	12.6	12.6	12.7	12.7	12.9	12.7	13.3	13.5	13.5	14.4	15.6
87.5°	10.9	10.5	10.6	10.6	10.4	10.4	10.4	10.4	10.3	10.3	9.8
90°	31.7	31.2	30.8	30.3	29.8	29.1	28.2	27.2	26.3	25.4	22.3
92.5°	42.7	43.0	43.3	43.5	43.9	43.6	42.9	42.1	41.3	40.6	38.9
95°	82.5	82.5	82.5	82.5	82.5	82.0	81.0	80.1	79.2	78.3	76.4
97.5°	126.9	127.0	127.1	127.2	127.3	126.8	125.7	124.6	123.5	122.5	121.1
100°	160.7	160.3	159.8	159.3	158.8	158.2	157.5	156.9	156.1	155.5	154.3
102.5°	195.4	195.5	195.6	195.7	195.8	195.5	194.8	194.0	193.4	192.7	191.1
105°	251.7	251.2	250.7	250.3	249.8	249.6	249.6	249.6	249.6	249.6	247.4
107.5°	310.2	310.5	310.8	311.1	311.4	311.1	310.4	309.7	308.9	308.1	307.3
110°	350.0	350.5	351.0	351.4	351.9	351.6	350.7	349.8	348.9	347.9	347.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	392.3	392.4	392.5	392.6	392.6	392.2	391.0	389.9	388.8	387.7	387.6
115°	450.5	450.7	450.9	451.2	451.4	451.4	451.2	450.9	450.7	450.5	450.9
117.5°	509.5	510.1	510.8	511.4	512.1	512.4	512.5	512.6	512.6	512.7	513.2
120°	550.9	551.4	551.9	552.4	552.8	553.2	553.4	553.6	553.8	554.1	555.3
122.5°	590.7	591.3	592.0	592.6	593.3	593.9	594.5	595.2	595.7	596.4	597.0
125°	650.3	651.3	652.2	653.1	654.1	655.0	656.0	656.9	657.9	658.8	659.3
127.5°	709.7	710.9	711.9	713.0	714.0	715.3	716.6	717.9	719.2	720.6	721.1
130°	748.7	750.3	752.0	753.6	755.2	756.5	757.5	758.4	759.4	760.3	761.0
132.5°	789.3	790.5	791.8	793.0	794.3	795.6	796.6	797.8	798.9	800.1	800.5
135°	852.3	852.7	853.2	853.7	854.2	854.8	855.8	856.7	857.7	858.6	858.8
137.5°	907.9	908.8	909.7	910.6	911.5	912.4	913.4	914.4	915.3	916.4	915.7
140°	944.3	945.9	947.5	949.3	950.9	951.8	952.0	952.3	952.5	952.8	952.5
142.5°	981.5	982.8	984.1	985.3	986.6	987.3	987.6	987.8	988.1	988.3	987.8
145°	1035.2	1036.2	1037.1	1038.0	1039.0	1039.6	1039.8	1040.0	1040.2	1040.5	1039.8
147.5°	1083.0	1084.4	1085.8	1087.3	1088.7	1089.3	1089.3	1089.3	1089.3	1089.3	1088.7
150°	1113.5	1114.8	1116.3	1117.7	1119.1	1119.8	1119.8	1119.8	1119.8	1119.8	1119.3
152.5°	1143.0	1144.3	1145.5	1146.7	1147.9	1148.3	1148.0	1147.6	1147.3	1146.9	1146.6
155°	1183.2	1184.9	1186.6	1188.2	1189.8	1190.2	1189.3	1188.3	1187.4	1186.4	1186.2
157.5°	1219.9	1221.2	1222.5	1223.8	1225.1	1225.3	1224.3	1223.3	1222.3	1221.3	1221.2
160°	1243.5	1244.5	1245.5	1246.3	1247.3	1247.2	1246.0	1244.8	1243.7	1242.4	1242.4
162.5°	1261.3	1262.8	1264.3	1265.8	1267.3	1267.5	1266.3	1265.1	1264.0	1262.7	1262.6
165°	1286.9	1288.5	1290.2	1291.8	1293.5	1293.6	1292.2	1290.8	1289.3	1287.9	1287.9
167.5°	1308.6	1310.1	1311.6	1313.0	1314.5	1314.5	1313.0	1311.6	1310.1	1308.6	1308.5
170°	1319.6	1321.3	1323.0	1324.6	1326.2	1326.2	1324.6	1323.0	1321.3	1319.6	1319.6
172.5°	1328.1	1329.8	1331.4	1333.1	1334.7	1334.8	1333.3	1331.9	1330.4	1328.9	1328.9
175°	1337.7	1339.3	1340.9	1342.6	1344.2	1344.3	1343.0	1341.5	1340.1	1338.7	1338.7
177.5°	1342.7	1344.0	1345.3	1346.6	1348.0	1348.1	1347.0	1345.8	1344.7	1343.5	1343.5
180°	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0
2.5°	404.1	403.0	401.8	399.7	397.8	395.3	394.4	393.5	390.8	388.4	386.5
5°	428.8	424.3	417.7	411.6	406.7	400.0	396.2	392.2	386.5	381.4	377.2
7.5°	454.7	445.7	435.4	424.3	413.8	403.8	395.7	388.5	380.5	373.0	367.0
10°	475.2	462.3	447.8	432.3	419.0	406.1	395.3	385.8	375.5	366.6	359.1
12.5°	498.6	479.5	459.6	440.7	424.9	407.0	393.9	381.8	370.1	359.5	351.1
15°	526.3	502.0	478.4	452.4	428.5	406.1	390.5	375.3	361.8	350.8	340.1
17.5°	551.5	524.0	492.9	461.3	432.4	405.9	384.1	366.9	350.0	336.6	326.0
20°	565.8	534.5	499.4	466.5	434.6	405.0	381.0	360.5	342.3	328.0	316.1
22.5°	578.1	541.4	505.1	469.9	434.4	402.5	375.4	354.2	334.5	320.6	307.9
25°	590.9	547.0	510.5	469.4	429.7	396.6	366.2	342.3	322.5	306.1	293.1
27.5°	601.9	546.7	503.4	459.0	422.1	389.0	356.5	330.8	309.9	292.1	278.8
30°	609.1	547.4	495.9	452.1	414.8	380.7	349.1	323.3	301.3	283.2	270.7
32.5°	613.7	546.9	489.1	442.3	403.2	373.0	341.0	314.3	291.6	273.9	261.9
35°	616.4	543.6	477.3	422.2	384.7	355.1	328.4	300.7	277.0	260.4	246.7
37.5°	611.0	536.5	463.7	402.8	361.7	332.7	310.1	286.6	263.8	245.6	233.8
40°	602.7	532.0	453.0	389.1	345.8	318.0	298.8	275.6	253.2	235.9	224.9
42.5°	586.7	522.8	441.3	374.0	329.5	301.6	283.9	264.5	243.3	227.1	216.1
45°	547.8	502.6	423.7	351.2	305.2	276.4	260.8	246.7	227.6	211.8	202.3
47.5°	493.7	472.2	398.4	327.2	279.9	252.2	235.9	224.7	210.7	197.9	188.8
50°	456.2	447.3	381.2	310.7	263.1	235.9	220.3	210.1	200.0	187.3	179.0
52.5°	412.9	418.4	361.2	293.8	245.9	219.2	204.6	196.4	187.3	176.8	169.5
55°	352.0	371.9	326.5	265.1	220.3	194.9	181.0	173.8	168.4	160.7	154.4
57.5°	294.9	320.2	289.0	235.7	195.2	173.3	160.0	152.1	148.7	144.6	139.7
60°	261.0	286.0	262.3	216.0	178.4	157.4	145.7	139.0	135.6	132.7	128.6
62.5°	230.7	256.1	236.2	195.9	161.8	142.4	132.2	125.6	123.0	121.6	118.0
65°	189.1	211.0	197.7	164.7	138.1	121.0	111.7	107.1	104.7	104.1	101.8
67.5°	153.9	170.6	160.9	136.6	115.7	100.9	93.0	89.1	87.2	87.0	85.3
70°	130.9	146.4	139.0	117.0	99.0	87.4	80.6	77.1	76.0	75.8	74.8
72.5°	112.9	123.8	117.9	99.5	85.6	75.1	70.0	66.4	65.2	65.5	64.8
75°	83.6	91.7	88.3	75.6	64.4	57.6	53.4	51.1	50.0	50.5	49.7
77.5°	60.2	65.3	62.2	53.4	46.5	41.6	38.5	37.1	36.0	36.0	35.7
80°	45.4	48.4	46.7	41.4	35.7	31.6	29.0	28.1	27.6	27.3	27.1
82.5°	32.4	34.9	32.9	29.3	25.4	22.8	21.4	20.2	19.8	19.9	19.7
85°	16.3	17.3	16.6	14.3	12.7	11.6	10.8	10.3	9.9	10.0	9.7
87.5°	9.5	9.0	8.0	6.8	6.0	5.1	4.6	3.8	4.0	4.5	4.8
90°	19.2	16.2	13.1	10.4	8.1	5.8	3.4	1.1	3.4	5.8	8.1
92.5°	37.1	35.4	33.7	32.0	30.4	28.8	27.1	25.6	27.1	28.8	30.4
95°	74.5	72.6	70.8	69.0	67.3	65.7	64.0	62.4	64.0	65.7	67.3
97.5°	119.7	118.4	117.0	115.7	114.5	113.2	112.0	110.8	112.0	113.2	114.5
100°	153.1	151.9	150.7	149.4	148.1	146.6	145.2	143.8	145.2	146.6	148.1
102.5°	189.6	188.0	186.5	185.2	184.4	183.6	182.7	181.9	182.7	183.6	184.4
105°	245.3	243.2	241.1	239.8	239.3	238.9	238.4	237.9	238.4	238.9	239.3
107.5°	306.5	305.6	304.8	304.2	303.9	303.6	303.4	303.0	303.4	303.6	303.9
110°	347.0	346.5	346.0	345.5	345.0	344.6	344.1	343.6	344.1	344.6	345.0



TEST NUMBER: P332109-930

CATALOG NUMBER: S123DIW-S340D1320U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	387.4	387.3	387.3	387.1	386.8	386.5	386.2	386.0	386.2	386.5	386.8
115°	451.4	451.8	452.3	452.2	451.5	450.8	450.1	449.4	450.1	450.8	451.5
117.5°	513.9	514.5	515.1	515.2	514.7	514.2	513.7	513.3	513.7	514.2	514.7
120°	556.4	557.6	558.8	558.6	557.3	555.9	554.4	553.0	554.4	555.9	557.3
122.5°	597.6	598.2	598.8	598.6	597.6	596.6	595.5	594.5	595.5	596.6	597.6
125°	659.7	660.1	660.6	660.6	659.8	659.1	658.4	657.7	658.4	659.1	659.8
127.5°	721.5	722.1	722.6	722.1	720.6	719.1	717.6	716.1	717.6	719.1	720.6
130°	761.7	762.4	763.1	762.5	760.7	758.8	756.8	755.0	756.8	758.8	760.7
132.5°	801.1	801.6	802.1	801.4	799.6	797.7	795.8	793.9	795.8	797.7	799.6
135°	859.1	859.3	859.6	859.0	857.5	856.1	854.8	853.4	854.8	856.1	857.5
137.5°	915.2	914.5	914.0	913.1	911.8	910.7	909.5	908.3	909.5	910.7	911.8
140°	952.3	952.0	951.8	951.1	949.9	948.8	947.5	946.4	947.5	948.8	949.9
142.5°	987.4	987.0	986.6	985.8	984.6	983.4	982.3	981.0	982.3	983.4	984.6
145°	1039.1	1038.4	1037.7	1037.1	1036.7	1036.2	1035.7	1035.2	1035.7	1036.2	1036.7
147.5°	1088.0	1087.4	1086.7	1086.0	1085.2	1084.3	1083.5	1082.6	1083.5	1084.3	1085.2
150°	1118.8	1118.4	1117.9	1117.4	1117.0	1116.6	1116.1	1115.6	1116.1	1116.6	1117.0
152.5°	1146.3	1146.1	1145.7	1145.3	1144.6	1143.9	1143.3	1142.6	1143.3	1143.9	1144.6
155°	1185.9	1185.7	1185.5	1185.4	1185.4	1185.4	1185.4	1185.4	1185.4	1185.4	1185.4
157.5°	1220.9	1220.7	1220.6	1220.6	1220.9	1221.2	1221.5	1221.7	1221.5	1221.2	1220.9
160°	1242.4	1242.4	1242.4	1242.7	1243.2	1243.7	1244.1	1244.6	1244.1	1243.7	1243.2
162.5°	1262.4	1262.2	1262.0	1262.2	1262.9	1263.6	1264.2	1264.9	1264.2	1263.6	1262.9
165°	1287.9	1287.9	1287.9	1288.3	1289.0	1289.7	1290.4	1291.1	1290.4	1289.7	1289.0
167.5°	1308.3	1308.1	1307.9	1308.3	1309.2	1310.2	1311.1	1312.1	1311.1	1310.2	1309.2
170°	1319.6	1319.6	1319.6	1320.1	1321.1	1322.0	1323.0	1323.9	1323.0	1322.0	1321.1
172.5°	1328.9	1328.9	1328.9	1329.4	1330.4	1331.3	1332.3	1333.2	1332.3	1331.3	1330.4
175°	1338.7	1338.7	1338.7	1339.1	1340.1	1341.1	1342.0	1343.0	1342.0	1341.1	1340.1
177.5°	1343.5	1343.5	1343.5	1343.9	1344.7	1345.4	1346.2	1347.0	1346.2	1345.4	1344.7
180°	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1



TEST NUMBER: P332109-930

CATALOG NUMBER: S123DIW-S340D1320U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0
2.5°	385.5	384.4	382.9	380.7	378.8	375.9	375.9	376.3	376.3	376.3	375.9
5°	373.8	371.0	367.5	363.5	359.4	355.1	354.4	352.9	351.8	351.0	350.1
7.5°	361.4	356.4	351.4	345.8	340.7	336.6	333.6	331.2	329.6	327.9	326.7
10°	353.1	346.8	341.0	335.1	328.6	323.4	320.2	318.0	316.3	314.7	314.0
12.5°	343.2	336.1	329.5	323.9	316.9	311.6	308.5	307.4	305.5	302.2	300.6
15°	328.8	322.1	314.4	305.8	302.4	296.0	292.3	290.6	289.4	287.0	286.3
17.5°	316.4	307.8	299.0	292.6	286.3	281.0	279.0	276.9	275.4	273.4	272.7
20°	306.6	298.8	290.8	284.0	277.3	271.6	269.9	268.4	266.8	266.0	265.1
22.5°	296.5	288.8	282.1	275.7	268.6	264.9	263.1	261.4	260.3	259.7	258.9
25°	282.4	275.6	268.2	262.5	256.8	254.3	253.2	252.3	251.4	250.5	250.3
27.5°	269.9	262.4	256.4	251.0	247.0	244.9	243.8	243.4	243.5	243.9	244.1
30°	260.4	253.6	248.7	244.1	240.3	238.4	238.1	238.1	239.0	239.1	239.5
32.5°	251.8	246.1	241.2	236.8	233.9	232.6	233.3	233.3	233.9	234.4	235.1
35°	239.1	234.2	230.4	226.6	224.1	224.7	225.1	225.4	226.4	227.6	228.3
37.5°	227.1	222.8	218.8	215.9	214.7	215.7	216.7	217.4	218.6	219.5	220.2
40°	218.4	215.2	211.4	208.7	209.1	209.7	210.4	211.4	212.4	213.0	213.7
42.5°	210.3	207.0	204.1	201.9	202.4	203.2	203.6	204.1	205.2	206.3	206.7
45°	198.1	195.4	192.8	191.4	191.8	192.2	192.6	193.1	194.1	194.9	195.1
47.5°	184.3	182.5	180.7	179.4	180.0	179.9	180.3	181.6	181.8	182.3	183.4
50°	175.5	173.8	171.7	171.3	171.3	171.3	171.5	173.0	173.0	173.8	174.6
52.5°	165.8	164.7	163.4	162.7	162.3	162.3	163.1	163.9	164.2	165.3	166.1
55°	151.4	150.3	149.1	148.5	148.1	148.5	150.0	150.4	151.4	152.0	152.5
57.5°	136.4	135.5	134.6	134.3	134.2	134.7	135.5	136.6	136.9	138.7	139.5
60°	126.5	125.1	124.4	124.4	124.0	125.7	125.4	127.3	127.7	128.8	130.1
62.5°	116.3	114.5	114.2	114.2	114.8	115.3	115.8	116.6	117.6	119.0	120.1
65°	99.9	99.0	100.3	100.1	99.7	100.9	100.9	101.8	103.0	104.3	106.4
67.5°	84.4	83.9	84.0	84.0	84.5	85.2	85.8	86.6	88.0	89.4	90.7
70°	73.9	74.4	73.5	74.3	74.8	75.0	75.4	76.6	78.0	79.0	80.6
72.5°	63.7	63.7	63.8	64.1	64.7	65.0	65.4	66.7	68.3	69.1	70.4
75°	49.0	48.8	49.4	49.4	50.3	50.7	51.1	51.7	53.2	54.3	55.3
77.5°	35.8	36.0	35.9	36.5	36.3	36.4	37.5	38.1	38.2	40.5	41.0
80°	27.0	27.3	27.6	27.7	27.9	27.6	28.9	29.4	29.4	30.7	31.7
82.5°	19.4	19.6	20.1	20.3	20.3	20.7	20.8	21.2	21.7	22.3	23.5
85°	9.7	10.3	10.4	10.3	10.4	10.0	10.6	10.8	11.0	11.0	11.0
87.5°	5.1	5.8	6.3	7.0	7.5	8.2	8.5	8.3	8.6	9.1	8.7
90°	10.4	13.1	16.2	19.2	22.3	25.4	26.3	27.2	28.2	29.1	29.8
92.5°	32.0	33.7	35.4	37.1	38.9	40.6	41.3	42.1	42.9	43.6	43.9
95°	69.0	70.8	72.6	74.5	76.4	78.3	79.2	80.1	81.0	82.0	82.5
97.5°	115.7	117.0	118.4	119.7	121.1	122.5	123.5	124.6	125.7	126.8	127.3
100°	149.4	150.7	151.9	153.1	154.3	155.5	156.1	156.9	157.5	158.2	158.8
102.5°	185.2	186.5	188.0	189.6	191.1	192.7	193.4	194.0	194.8	195.5	195.8
105°	239.8	241.1	243.2	245.3	247.4	249.6	249.6	249.6	249.6	249.6	249.8
107.5°	304.2	304.8	305.6	306.5	307.3	308.1	308.9	309.7	310.4	311.1	311.4
110°	345.5	346.0	346.5	347.0	347.4	347.9	348.9	349.8	350.7	351.6	351.9



TEST NUMBER: P332109-930

CATALOG NUMBER: S123DIW-S340D1320U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	387.1	387.3	387.3	387.4	387.6	387.7	388.8	389.9	391.0	392.2	392.6
115°	452.2	452.3	451.8	451.4	450.9	450.5	450.7	450.9	451.2	451.4	451.4
117.5°	515.2	515.1	514.5	513.9	513.2	512.7	512.6	512.6	512.5	512.4	512.1
120°	558.6	558.8	557.6	556.4	555.3	554.1	553.8	553.6	553.4	553.2	552.8
122.5°	598.6	598.8	598.2	597.6	597.0	596.4	595.7	595.2	594.5	593.9	593.3
125°	660.6	660.6	660.1	659.7	659.3	658.8	657.9	656.9	656.0	655.0	654.1
127.5°	722.1	722.6	722.1	721.5	721.1	720.6	719.2	717.9	716.6	715.3	714.0
130°	762.5	763.1	762.4	761.7	761.0	760.3	759.4	758.4	757.5	756.5	755.2
132.5°	801.4	802.1	801.6	801.1	800.5	800.1	798.9	797.8	796.6	795.6	794.3
135°	859.0	859.6	859.3	859.1	858.8	858.6	857.7	856.7	855.8	854.8	854.2
137.5°	913.1	914.0	914.5	915.2	915.7	916.4	915.3	914.4	913.4	912.4	911.5
140°	951.1	951.8	952.0	952.3	952.5	952.8	952.5	952.3	952.0	951.8	950.9
142.5°	985.8	986.6	987.0	987.4	987.8	988.3	988.1	987.8	987.6	987.3	986.6
145°	1037.1	1037.7	1038.4	1039.1	1039.8	1040.5	1040.2	1040.0	1039.8	1039.6	1039.0
147.5°	1086.0	1086.7	1087.4	1088.0	1088.7	1089.3	1089.3	1089.3	1089.3	1089.3	1088.7
150°	1117.4	1117.9	1118.4	1118.8	1119.3	1119.8	1119.8	1119.8	1119.8	1119.8	1119.1
152.5°	1145.3	1145.7	1146.1	1146.3	1146.6	1146.9	1147.3	1147.6	1148.0	1148.3	1147.9
155°	1185.4	1185.5	1185.7	1185.9	1186.2	1186.4	1187.4	1188.3	1189.3	1190.2	1189.8
157.5°	1220.6	1220.6	1220.7	1220.9	1221.2	1221.3	1222.3	1223.3	1224.3	1225.3	1225.1
160°	1242.7	1242.4	1242.4	1242.4	1242.4	1242.4	1243.7	1244.8	1246.0	1247.2	1247.3
162.5°	1262.2	1262.0	1262.2	1262.4	1262.6	1262.7	1264.0	1265.1	1266.3	1267.5	1267.3
165°	1288.3	1287.9	1287.9	1287.9	1287.9	1287.9	1289.3	1290.8	1292.2	1293.6	1293.5
167.5°	1308.3	1307.9	1308.1	1308.3	1308.5	1308.6	1310.1	1311.6	1313.0	1314.5	1314.5
170°	1320.1	1319.6	1319.6	1319.6	1319.6	1319.6	1321.3	1323.0	1324.6	1326.2	1326.2
172.5°	1329.4	1328.9	1328.9	1328.9	1328.9	1328.9	1330.4	1331.9	1333.3	1334.8	1334.7
175°	1339.1	1338.7	1338.7	1338.7	1338.7	1338.7	1340.1	1341.5	1343.0	1344.3	1344.2
177.5°	1343.9	1343.5	1343.5	1343.5	1343.5	1343.5	1344.7	1345.8	1347.0	1348.1	1348.0
180°	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1



TEST NUMBER: P332109-930

CATALOG NUMBER: S123DIW-S340D1320U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0
2.5°	374.9	374.7	375.8	375.0	375.8	374.7	374.9	375.9	376.3	376.3	376.3
5°	348.9	349.5	347.6	347.6	347.6	349.5	348.9	350.1	351.0	351.8	352.9
7.5°	325.8	325.0	325.1	324.0	325.1	325.0	325.8	326.7	327.9	329.6	331.2
10°	311.7	310.5	310.1	310.4	310.1	310.5	311.7	314.0	314.7	316.3	318.0
12.5°	299.9	299.8	297.3	297.3	297.3	299.8	299.9	300.6	302.2	305.5	307.4
15°	286.3	282.7	282.3	283.4	282.3	282.7	286.3	286.3	287.0	289.4	290.6
17.5°	272.5	270.5	270.7	270.1	270.7	270.5	272.5	272.7	273.4	275.4	276.9
20°	265.1	264.0	263.8	262.5	263.8	264.0	265.1	265.1	266.0	266.8	268.4
22.5°	258.4	258.1	258.2	256.7	258.2	258.1	258.4	258.9	259.7	260.3	261.4
25°	250.1	251.1	250.3	250.3	250.3	251.1	250.1	250.3	250.5	251.4	252.3
27.5°	244.5	244.5	244.1	244.1	244.1	244.5	244.5	244.1	243.9	243.5	243.4
30°	240.3	240.1	240.4	240.4	240.4	240.1	240.3	239.5	239.1	239.0	238.1
32.5°	236.0	236.3	236.4	236.5	236.4	236.3	236.0	235.1	234.4	233.9	233.3
35°	229.4	229.7	230.2	229.8	230.2	229.7	229.4	228.3	227.6	226.4	225.4
37.5°	220.5	221.4	221.3	221.5	221.3	221.4	220.5	220.2	219.5	218.6	217.4
40°	213.9	214.4	214.3	214.3	214.3	214.4	213.9	213.7	213.0	212.4	211.4
42.5°	207.0	207.4	206.9	206.7	206.9	207.4	207.0	206.7	206.3	205.2	204.1
45°	195.8	195.4	196.0	195.3	196.0	195.4	195.8	195.1	194.9	194.1	193.1
47.5°	183.3	183.7	183.8	184.4	183.8	183.7	183.3	183.4	182.3	181.8	181.6
50°	175.0	176.1	176.1	175.9	176.1	176.1	175.0	174.6	173.8	173.0	173.0
52.5°	166.7	167.2	168.0	168.0	168.0	167.2	166.7	166.1	165.3	164.2	163.9
55°	154.0	154.4	154.8	155.0	154.8	154.4	154.0	152.5	152.0	151.4	150.4
57.5°	140.9	140.7	141.6	141.9	141.6	140.7	140.9	139.5	138.7	136.9	136.6
60°	131.6	131.6	133.1	133.7	133.1	131.6	131.6	130.1	128.8	127.7	127.3
62.5°	121.7	122.4	123.8	123.1	123.8	122.4	121.7	120.1	119.0	117.6	116.6
65°	107.3	108.8	108.7	109.4	108.7	108.8	107.3	106.4	104.3	103.0	101.8
67.5°	92.2	93.2	94.6	94.7	94.6	93.2	92.2	90.7	89.4	88.0	86.6
70°	82.0	83.0	83.7	84.3	83.7	83.0	82.0	80.6	79.0	78.0	76.6
72.5°	72.2	72.6	74.5	73.7	74.5	72.6	72.2	70.4	69.1	68.3	66.7
75°	56.6	58.0	59.1	58.5	59.1	58.0	56.6	55.3	54.3	53.2	51.7
77.5°	41.8	43.2	43.7	43.2	43.7	43.2	41.8	41.0	40.5	38.2	38.1
80°	33.0	32.9	34.0	33.8	34.0	32.9	33.0	31.7	30.7	29.4	29.4
82.5°	24.2	24.1	24.5	24.7	24.5	24.1	24.2	23.5	22.3	21.7	21.2
85°	11.7	12.3	11.6	11.4	11.6	12.3	11.7	11.0	11.0	11.0	10.8
87.5°	8.8	8.9	8.8	8.8	8.8	8.9	8.8	8.7	9.1	8.6	8.3
90°	30.3	30.8	31.2	31.7	31.2	30.8	30.3	29.8	29.1	28.2	27.2
92.5°	43.5	43.3	43.0	42.7	43.0	43.3	43.5	43.9	43.6	42.9	42.1
95°	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.0	81.0	80.1
97.5°	127.2	127.1	127.0	126.9	127.0	127.1	127.2	127.3	126.8	125.7	124.6
100°	159.3	159.8	160.3	160.7	160.3	159.8	159.3	158.8	158.2	157.5	156.9
102.5°	195.7	195.6	195.5	195.4	195.5	195.6	195.7	195.8	195.5	194.8	194.0
105°	250.3	250.7	251.2	251.7	251.2	250.7	250.3	249.8	249.6	249.6	249.6
107.5°	311.1	310.8	310.5	310.2	310.5	310.8	311.1	311.4	311.1	310.4	309.7
110°	351.4	351.0	350.5	350.0	350.5	351.0	351.4	351.9	351.6	350.7	349.8



TEST NUMBER: P332109-930

CATALOG NUMBER: S123DIW-S340D1320U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	392.6	392.5	392.4	392.3	392.4	392.5	392.6	392.6	392.2	391.0	389.9
115°	451.2	450.9	450.7	450.5	450.7	450.9	451.2	451.4	451.4	451.2	450.9
117.5°	511.4	510.8	510.1	509.5	510.1	510.8	511.4	512.1	512.4	512.5	512.6
120°	552.4	551.9	551.4	550.9	551.4	551.9	552.4	552.8	553.2	553.4	553.6
122.5°	592.6	592.0	591.3	590.7	591.3	592.0	592.6	593.3	593.9	594.5	595.2
125°	653.1	652.2	651.3	650.3	651.3	652.2	653.1	654.1	655.0	656.0	656.9
127.5°	713.0	711.9	710.9	709.7	710.9	711.9	713.0	714.0	715.3	716.6	717.9
130°	753.6	752.0	750.3	748.7	750.3	752.0	753.6	755.2	756.5	757.5	758.4
132.5°	793.0	791.8	790.5	789.3	790.5	791.8	793.0	794.3	795.6	796.6	797.8
135°	853.7	853.2	852.7	852.3	852.7	853.2	853.7	854.2	854.8	855.8	856.7
137.5°	910.6	909.7	908.8	907.9	908.8	909.7	910.6	911.5	912.4	913.4	914.4
140°	949.3	947.5	945.9	944.3	945.9	947.5	949.3	950.9	951.8	952.0	952.3
142.5°	985.3	984.1	982.8	981.5	982.8	984.1	985.3	986.6	987.3	987.6	987.8
145°	1038.0	1037.1	1036.2	1035.2	1036.2	1037.1	1038.0	1039.0	1039.6	1039.8	1040.0
147.5°	1087.3	1085.8	1084.4	1083.0	1084.4	1085.8	1087.3	1088.7	1089.3	1089.3	1089.3
150°	1117.7	1116.3	1114.8	1113.5	1114.8	1116.3	1117.7	1119.1	1119.8	1119.8	1119.8
152.5°	1146.7	1145.5	1144.3	1143.0	1144.3	1145.5	1146.7	1147.9	1148.3	1148.0	1147.6
155°	1188.2	1186.6	1184.9	1183.2	1184.9	1186.6	1188.2	1189.8	1190.2	1189.3	1188.3
157.5°	1223.8	1222.5	1221.2	1219.9	1221.2	1222.5	1223.8	1225.1	1225.3	1224.3	1223.3
160°	1246.3	1245.5	1244.5	1243.5	1244.5	1245.5	1246.3	1247.3	1247.2	1246.0	1244.8
162.5°	1265.8	1264.3	1262.8	1261.3	1262.8	1264.3	1265.8	1267.3	1267.5	1266.3	1265.1
165°	1291.8	1290.2	1288.5	1286.9	1288.5	1290.2	1291.8	1293.5	1293.6	1292.2	1290.8
167.5°	1313.0	1311.6	1310.1	1308.6	1310.1	1311.6	1313.0	1314.5	1314.5	1313.0	1311.6
170°	1324.6	1323.0	1321.3	1319.6	1321.3	1323.0	1324.6	1326.2	1326.2	1324.6	1323.0
172.5°	1333.1	1331.4	1329.8	1328.1	1329.8	1331.4	1333.1	1334.7	1334.8	1333.3	1331.9
175°	1342.6	1340.9	1339.3	1337.7	1339.3	1340.9	1342.6	1344.2	1344.3	1343.0	1341.5
177.5°	1346.6	1345.3	1344.0	1342.7	1344.0	1345.3	1346.6	1348.0	1348.1	1347.0	1345.8
180°	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1



TEST NUMBER: P332109-930

CATALOG NUMBER: S123DIW-S340D1320U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0
2.5°	375.9	375.9	378.8	380.7	382.9	384.4	385.5	386.5	388.4	390.8	393.5
5°	354.4	355.1	359.4	363.5	367.5	371.0	373.8	377.2	381.4	386.5	392.2
7.5°	333.6	336.6	340.7	345.8	351.4	356.4	361.4	367.0	373.0	380.5	388.5
10°	320.2	323.4	328.6	335.1	341.0	346.8	353.1	359.1	366.6	375.5	385.8
12.5°	308.5	311.6	316.9	323.9	329.5	336.1	343.2	351.1	359.5	370.1	381.8
15°	292.3	296.0	302.4	305.8	314.4	322.1	328.8	340.1	350.8	361.8	375.3
17.5°	279.0	281.0	286.3	292.6	299.0	307.8	316.4	326.0	336.6	350.0	366.9
20°	269.9	271.6	277.3	284.0	290.8	298.8	306.6	316.1	328.0	342.3	360.5
22.5°	263.1	264.9	268.6	275.7	282.1	288.8	296.5	307.9	320.6	334.5	354.2
25°	253.2	254.3	256.8	262.5	268.2	275.6	282.4	293.1	306.1	322.5	342.3
27.5°	243.8	244.9	247.0	251.0	256.4	262.4	269.9	278.8	292.1	309.9	330.8
30°	238.1	238.4	240.3	244.1	248.7	253.6	260.4	270.7	283.2	301.3	323.3
32.5°	233.3	232.6	233.9	236.8	241.2	246.1	251.8	261.9	273.9	291.6	314.3
35°	225.1	224.7	224.1	226.6	230.4	234.2	239.1	246.7	260.4	277.0	300.7
37.5°	216.7	215.7	214.7	215.9	218.8	222.8	227.1	233.8	245.6	263.8	286.6
40°	210.4	209.7	209.1	208.7	211.4	215.2	218.4	224.9	235.9	253.2	275.6
42.5°	203.6	203.2	202.4	201.9	204.1	207.0	210.3	216.1	227.1	243.3	264.5
45°	192.6	192.2	191.8	191.4	192.8	195.4	198.1	202.3	211.8	227.6	246.7
47.5°	180.3	179.9	180.0	179.4	180.7	182.5	184.3	188.8	197.9	210.7	224.7
50°	171.5	171.3	171.3	171.3	171.7	173.8	175.5	179.0	187.3	200.0	210.1
52.5°	163.1	162.3	162.3	162.7	163.4	164.7	165.8	169.5	176.8	187.3	196.4
55°	150.0	148.5	148.1	148.5	149.1	150.3	151.4	154.4	160.7	168.4	173.8
57.5°	135.5	134.7	134.2	134.3	134.6	135.5	136.4	139.7	144.6	148.7	152.1
60°	125.4	125.7	124.0	124.4	124.4	125.1	126.5	128.6	132.7	135.6	139.0
62.5°	115.8	115.3	114.8	114.2	114.2	114.5	116.3	118.0	121.6	123.0	125.6
65°	100.9	100.9	99.7	100.1	100.3	99.0	99.9	101.8	104.1	104.7	107.1
67.5°	85.8	85.2	84.5	84.0	84.0	83.9	84.4	85.3	87.0	87.2	89.1
70°	75.4	75.0	74.8	74.3	73.5	74.4	73.9	74.8	75.8	76.0	77.1
72.5°	65.4	65.0	64.7	64.1	63.8	63.7	63.7	64.8	65.5	65.2	66.4
75°	51.1	50.7	50.3	49.4	49.4	48.8	49.0	49.7	50.5	50.0	51.1
77.5°	37.5	36.4	36.3	36.5	35.9	36.0	35.8	35.7	36.0	36.0	37.1
80°	28.9	27.6	27.9	27.7	27.6	27.3	27.0	27.1	27.3	27.6	28.1
82.5°	20.8	20.7	20.3	20.3	20.1	19.6	19.4	19.7	19.9	19.8	20.2
85°	10.6	10.0	10.4	10.3	10.4	10.3	9.7	9.7	10.0	9.9	10.3
87.5°	8.5	8.2	7.5	7.0	6.3	5.8	5.1	4.8	4.5	4.0	3.8
90°	26.3	25.4	22.3	19.2	16.2	13.1	10.4	8.1	5.8	3.4	1.1
92.5°	41.3	40.6	38.9	37.1	35.4	33.7	32.0	30.4	28.8	27.1	25.6
95°	79.2	78.3	76.4	74.5	72.6	70.8	69.0	67.3	65.7	64.0	62.4
97.5°	123.5	122.5	121.1	119.7	118.4	117.0	115.7	114.5	113.2	112.0	110.8
100°	156.1	155.5	154.3	153.1	151.9	150.7	149.4	148.1	146.6	145.2	143.8
102.5°	193.4	192.7	191.1	189.6	188.0	186.5	185.2	184.4	183.6	182.7	181.9
105°	249.6	249.6	247.4	245.3	243.2	241.1	239.8	239.3	238.9	238.4	237.9
107.5°	308.9	308.1	307.3	306.5	305.6	304.8	304.2	303.9	303.6	303.4	303.0
110°	348.9	347.9	347.4	347.0	346.5	346.0	345.5	345.0	344.6	344.1	343.6



TEST NUMBER: P332109-930

CATALOG NUMBER: S123DIW-S340D1320U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	388.8	387.7	387.6	387.4	387.3	387.3	387.1	386.8	386.5	386.2	386.0
115°	450.7	450.5	450.9	451.4	451.8	452.3	452.2	451.5	450.8	450.1	449.4
117.5°	512.6	512.7	513.2	513.9	514.5	515.1	515.2	514.7	514.2	513.7	513.3
120°	553.8	554.1	555.3	556.4	557.6	558.8	558.6	557.3	555.9	554.4	553.0
122.5°	595.7	596.4	597.0	597.6	598.2	598.8	598.6	597.6	596.6	595.5	594.5
125°	657.9	658.8	659.3	659.7	660.1	660.6	660.6	659.8	659.1	658.4	657.7
127.5°	719.2	720.6	721.1	721.5	722.1	722.6	722.1	720.6	719.1	717.6	716.1
130°	759.4	760.3	761.0	761.7	762.4	763.1	762.5	760.7	758.8	756.8	755.0
132.5°	798.9	800.1	800.5	801.1	801.6	802.1	801.4	799.6	797.7	795.8	793.9
135°	857.7	858.6	858.8	859.1	859.3	859.6	859.0	857.5	856.1	854.8	853.4
137.5°	915.3	916.4	915.7	915.2	914.5	914.0	913.1	911.8	910.7	909.5	908.3
140°	952.5	952.8	952.5	952.3	952.0	951.8	951.1	949.9	948.8	947.5	946.4
142.5°	988.1	988.3	987.8	987.4	987.0	986.6	985.8	984.6	983.4	982.3	981.0
145°	1040.2	1040.5	1039.8	1039.1	1038.4	1037.7	1037.1	1036.7	1036.2	1035.7	1035.2
147.5°	1089.3	1089.3	1088.7	1088.0	1087.4	1086.7	1086.0	1085.2	1084.3	1083.5	1082.6
150°	1119.8	1119.8	1119.3	1118.8	1118.4	1117.9	1117.4	1117.0	1116.6	1116.1	1115.6
152.5°	1147.3	1146.9	1146.6	1146.3	1146.1	1145.7	1145.3	1144.6	1143.9	1143.3	1142.6
155°	1187.4	1186.4	1186.2	1185.9	1185.7	1185.5	1185.4	1185.4	1185.4	1185.4	1185.4
157.5°	1222.3	1221.3	1221.2	1220.9	1220.7	1220.6	1220.6	1220.9	1221.2	1221.5	1221.7
160°	1243.7	1242.4	1242.4	1242.4	1242.4	1242.4	1242.7	1243.2	1243.7	1244.1	1244.6
162.5°	1264.0	1262.7	1262.6	1262.4	1262.2	1262.0	1262.2	1262.9	1263.6	1264.2	1264.9
165°	1289.3	1287.9	1287.9	1287.9	1287.9	1287.9	1288.3	1289.0	1289.7	1290.4	1291.1
167.5°	1310.1	1308.6	1308.5	1308.3	1308.1	1307.9	1308.3	1309.2	1310.2	1311.1	1312.1
170°	1321.3	1319.6	1319.6	1319.6	1319.6	1319.6	1320.1	1321.1	1322.0	1323.0	1323.9
172.5°	1330.4	1328.9	1328.9	1328.9	1328.9	1328.9	1329.4	1330.4	1331.3	1332.3	1333.2
175°	1340.1	1338.7	1338.7	1338.7	1338.7	1338.7	1339.1	1340.1	1341.1	1342.0	1343.0
177.5°	1344.7	1343.5	1343.5	1343.5	1343.5	1343.5	1343.9	1344.7	1345.4	1346.2	1347.0
180°	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1



TEST NUMBER: P332109-930

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0
2.5°	394.4	395.3	397.8	399.7	401.8	403.0	404.1	405.1	406.3	406.6	411.0
5°	396.2	400.0	406.7	411.6	417.7	424.3	428.8	431.0	436.5	441.0	450.1
7.5°	395.7	403.8	413.8	424.3	435.4	445.7	454.7	465.4	472.9	484.3	495.5
10°	395.3	406.1	419.0	432.3	447.8	462.3	475.2	489.7	501.7	517.4	530.8
12.5°	393.9	407.0	424.9	440.7	459.6	479.5	498.6	517.1	527.7	554.0	566.4
15°	390.5	406.1	428.5	452.4	478.4	502.0	526.3	545.7	577.0	600.0	614.7
17.5°	384.1	405.9	432.4	461.3	492.9	524.0	551.5	580.9	614.2	642.0	671.6
20°	381.0	405.0	434.6	466.5	499.4	534.5	565.8	601.1	637.4	664.8	702.8
22.5°	375.4	402.5	434.4	469.9	505.1	541.4	578.1	613.8	655.7	693.3	729.5
25°	366.2	396.6	429.7	469.4	510.5	547.0	590.9	638.2	681.8	730.3	766.4
27.5°	356.5	389.0	422.1	459.0	503.4	546.7	601.9	655.3	708.7	750.5	777.2
30°	349.1	380.7	414.8	452.1	495.9	547.4	609.1	667.4	719.5	755.4	770.4
32.5°	341.0	373.0	403.2	442.3	489.1	546.9	613.7	674.6	720.1	744.0	741.0
35°	328.4	355.1	384.7	422.2	477.3	543.6	616.4	675.2	703.1	698.0	659.3
37.5°	310.1	332.7	361.7	402.8	463.7	536.5	611.0	655.2	653.4	611.6	555.5
40°	298.8	318.0	345.8	389.1	453.0	532.0	602.7	631.4	607.1	548.7	481.5
42.5°	283.9	301.6	329.5	374.0	441.3	522.8	586.7	595.0	547.5	480.4	418.7
45°	260.8	276.4	305.2	351.2	423.7	502.6	547.8	527.4	463.4	394.1	347.2
47.5°	235.9	252.2	279.9	327.2	398.4	472.2	493.7	450.5	384.8	328.6	285.5
50°	220.3	235.9	263.1	310.7	381.2	447.3	456.2	400.4	340.0	290.6	255.3
52.5°	204.6	219.2	245.9	293.8	361.2	418.4	412.9	356.0	300.5	258.4	230.6
55°	181.0	194.9	220.3	265.1	326.5	371.9	352.0	297.7	251.7	219.0	197.9
57.5°	160.0	173.3	195.2	235.7	289.0	320.2	294.9	249.1	212.5	187.4	171.7
60°	145.7	157.4	178.4	216.0	262.3	286.0	261.0	220.5	189.7	169.6	155.6
62.5°	132.2	142.4	161.8	195.9	236.2	256.1	230.7	196.5	170.3	152.5	140.5
65°	111.7	121.0	138.1	164.7	197.7	211.0	189.1	161.4	141.1	127.8	119.8
67.5°	93.0	100.9	115.7	136.6	160.9	170.6	153.9	132.5	117.2	106.5	100.2
70°	80.6	87.4	99.0	117.0	139.0	146.4	130.9	113.2	102.0	93.4	87.6
72.5°	70.0	75.1	85.6	99.5	117.9	123.8	112.9	97.4	87.0	80.6	75.8
75°	53.4	57.6	64.4	75.6	88.3	91.7	83.6	73.9	66.9	62.3	58.7
77.5°	38.5	41.6	46.5	53.4	62.2	65.3	60.2	53.6	48.5	45.5	43.5
80°	29.0	31.6	35.7	41.4	46.7	48.4	45.4	40.4	36.9	35.1	33.4
82.5°	21.4	22.8	25.4	29.3	32.9	34.9	32.4	29.4	27.4	25.8	25.2
85°	10.8	11.6	12.7	14.3	16.6	17.3	16.3	15.6	14.4	13.5	13.5
87.5°	4.6	5.1	6.0	6.8	8.0	9.0	9.5	9.8	10.3	10.3	10.4
90°	3.4	5.8	8.1	10.4	13.1	16.2	19.2	22.3	25.4	26.3	27.2
92.5°	27.1	28.8	30.4	32.0	33.7	35.4	37.1	38.9	40.6	41.3	42.1
95°	64.0	65.7	67.3	69.0	70.8	72.6	74.5	76.4	78.3	79.2	80.1
97.5°	112.0	113.2	114.5	115.7	117.0	118.4	119.7	121.1	122.5	123.5	124.6
100°	145.2	146.6	148.1	149.4	150.7	151.9	153.1	154.3	155.5	156.1	156.9
102.5°	182.7	183.6	184.4	185.2	186.5	188.0	189.6	191.1	192.7	193.4	194.0
105°	238.4	238.9	239.3	239.8	241.1	243.2	245.3	247.4	249.6	249.6	249.6
107.5°	303.4	303.6	303.9	304.2	304.8	305.6	306.5	307.3	308.1	308.9	309.7
110°	344.1	344.6	345.0	345.5	346.0	346.5	347.0	347.4	347.9	348.9	349.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	386.2	386.5	386.8	387.1	387.3	387.3	387.4	387.6	387.7	388.8	389.9
115°	450.1	450.8	451.5	452.2	452.3	451.8	451.4	450.9	450.5	450.7	450.9
117.5°	513.7	514.2	514.7	515.2	515.1	514.5	513.9	513.2	512.7	512.6	512.6
120°	554.4	555.9	557.3	558.6	558.8	557.6	556.4	555.3	554.1	553.8	553.6
122.5°	595.5	596.6	597.6	598.6	598.8	598.2	597.6	597.0	596.4	595.7	595.2
125°	658.4	659.1	659.8	660.6	660.6	660.1	659.7	659.3	658.8	657.9	656.9
127.5°	717.6	719.1	720.6	722.1	722.6	722.1	721.5	721.1	720.6	719.2	717.9
130°	756.8	758.8	760.7	762.5	763.1	762.4	761.7	761.0	760.3	759.4	758.4
132.5°	795.8	797.7	799.6	801.4	802.1	801.6	801.1	800.5	800.1	798.9	797.8
135°	854.8	856.1	857.5	859.0	859.6	859.3	859.1	858.8	858.6	857.7	856.7
137.5°	909.5	910.7	911.8	913.1	914.0	914.5	915.2	915.7	916.4	915.3	914.4
140°	947.5	948.8	949.9	951.1	951.8	952.0	952.3	952.5	952.8	952.5	952.3
142.5°	982.3	983.4	984.6	985.8	986.6	987.0	987.4	987.8	988.3	988.1	987.8
145°	1035.7	1036.2	1036.7	1037.1	1037.7	1038.4	1039.1	1039.8	1040.5	1040.2	1040.0
147.5°	1083.5	1084.3	1085.2	1086.0	1086.7	1087.4	1088.0	1088.7	1089.3	1089.3	1089.3
150°	1116.1	1116.6	1117.0	1117.4	1117.9	1118.4	1118.8	1119.3	1119.8	1119.8	1119.8
152.5°	1143.3	1143.9	1144.6	1145.3	1145.7	1146.1	1146.3	1146.6	1146.9	1147.3	1147.6
155°	1185.4	1185.4	1185.4	1185.4	1185.5	1185.7	1185.9	1186.2	1186.4	1187.4	1188.3
157.5°	1221.5	1221.2	1220.9	1220.6	1220.6	1220.7	1220.9	1221.2	1221.3	1222.3	1223.3
160°	1244.1	1243.7	1243.2	1242.7	1242.4	1242.4	1242.4	1242.4	1242.4	1243.7	1244.8
162.5°	1264.2	1263.6	1262.9	1262.2	1262.0	1262.2	1262.4	1262.6	1262.7	1264.0	1265.1
165°	1290.4	1289.7	1289.0	1288.3	1287.9	1287.9	1287.9	1287.9	1287.9	1289.3	1290.8
167.5°	1311.1	1310.2	1309.2	1308.3	1307.9	1308.1	1308.3	1308.5	1308.6	1310.1	1311.6
170°	1323.0	1322.0	1321.1	1320.1	1319.6	1319.6	1319.6	1319.6	1319.6	1321.3	1323.0
172.5°	1332.3	1331.3	1330.4	1329.4	1328.9	1328.9	1328.9	1328.9	1328.9	1330.4	1331.9
175°	1342.0	1341.1	1340.1	1339.1	1338.7	1338.7	1338.7	1338.7	1338.7	1340.1	1341.5
177.5°	1346.2	1345.4	1344.7	1343.9	1343.5	1343.5	1343.5	1343.5	1343.5	1344.7	1345.8
180°	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	392.0	392.0	392.0	392.0	392.0	392.0	392.0
2.5°	412.5	412.7	414.3	415.6	415.0	415.7	416.0
5°	450.7	457.5	461.1	463.8	464.0	464.2	465.7
7.5°	504.8	512.2	517.6	525.7	528.1	530.8	530.1
10°	544.4	555.2	564.5	569.4	574.8	582.5	576.3
12.5°	581.3	600.5	614.7	622.3	627.3	628.8	625.8
15°	642.2	667.2	680.7	680.4	697.4	704.8	693.2
17.5°	698.0	721.1	739.7	749.2	763.4	766.5	765.2
20°	732.2	757.5	771.9	788.2	795.7	802.3	803.4
22.5°	761.7	784.4	799.9	813.4	819.6	822.8	824.7
25°	792.1	809.9	819.2	823.9	825.7	825.2	822.8
27.5°	789.9	791.3	781.1	771.0	762.0	751.9	748.4
30°	769.4	753.5	725.0	708.8	685.1	666.3	673.9
32.5°	715.5	683.7	651.8	616.4	587.3	578.9	570.5
35°	610.7	554.8	522.1	484.1	469.0	453.8	443.3
37.5°	494.0	450.9	412.1	387.3	372.0	362.4	357.3
40°	427.1	388.2	356.3	336.1	324.6	313.8	312.3
42.5°	373.8	337.6	313.6	297.6	286.5	281.8	278.5
45°	306.1	281.0	264.8	253.4	246.0	243.1	239.3
47.5°	259.2	241.3	229.2	221.4	215.8	213.7	213.4
50°	232.8	218.0	209.1	203.0	198.7	197.9	194.9
52.5°	213.1	200.2	193.3	188.0	184.8	182.7	181.8
55°	185.0	176.4	170.2	167.1	164.7	162.6	162.6
57.5°	161.8	154.7	150.6	148.0	147.2	145.8	144.8
60°	147.6	141.5	138.3	136.0	134.4	134.7	133.0
62.5°	133.6	129.6	126.5	124.3	122.5	122.5	122.6
65°	113.7	110.7	108.4	107.7	106.6	105.3	105.6
67.5°	96.4	93.6	91.8	90.5	90.1	89.4	90.5
70°	84.0	81.9	80.6	79.4	79.0	79.2	80.1
72.5°	72.6	71.1	70.2	69.7	68.8	68.9	69.5
75°	57.0	55.8	55.1	54.5	54.3	54.3	54.3
77.5°	41.8	41.6	41.3	40.4	40.4	40.7	40.7
80°	33.0	32.4	32.3	31.9	31.3	31.0	31.9
82.5°	24.7	24.1	24.0	23.9	23.0	22.9	23.7
85°	13.3	12.7	12.9	12.7	12.7	12.6	12.6
87.5°	10.4	10.4	10.4	10.6	10.6	10.5	10.9
90°	28.2	29.1	29.8	30.3	30.8	31.2	31.7
92.5°	42.9	43.6	43.9	43.5	43.3	43.0	42.7
95°	81.0	82.0	82.5	82.5	82.5	82.5	82.5
97.5°	125.7	126.8	127.3	127.2	127.1	127.0	126.9
100°	157.5	158.2	158.8	159.3	159.8	160.3	160.7
102.5°	194.8	195.5	195.8	195.7	195.6	195.5	195.4
105°	249.6	249.6	249.8	250.3	250.7	251.2	251.7
107.5°	310.4	311.1	311.4	311.1	310.8	310.5	310.2
110°	350.7	351.6	351.9	351.4	351.0	350.5	350.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	391.0	392.2	392.6	392.6	392.5	392.4	392.3
115°	451.2	451.4	451.4	451.2	450.9	450.7	450.5
117.5°	512.5	512.4	512.1	511.4	510.8	510.1	509.5
120°	553.4	553.2	552.8	552.4	551.9	551.4	550.9
122.5°	594.5	593.9	593.3	592.6	592.0	591.3	590.7
125°	656.0	655.0	654.1	653.1	652.2	651.3	650.3
127.5°	716.6	715.3	714.0	713.0	711.9	710.9	709.7
130°	757.5	756.5	755.2	753.6	752.0	750.3	748.7
132.5°	796.6	795.6	794.3	793.0	791.8	790.5	789.3
135°	855.8	854.8	854.2	853.7	853.2	852.7	852.3
137.5°	913.4	912.4	911.5	910.6	909.7	908.8	907.9
140°	952.0	951.8	950.9	949.3	947.5	945.9	944.3
142.5°	987.6	987.3	986.6	985.3	984.1	982.8	981.5
145°	1039.8	1039.6	1039.0	1038.0	1037.1	1036.2	1035.2
147.5°	1089.3	1089.3	1088.7	1087.3	1085.8	1084.4	1083.0
150°	1119.8	1119.8	1119.1	1117.7	1116.3	1114.8	1113.5
152.5°	1148.0	1148.3	1147.9	1146.7	1145.5	1144.3	1143.0
155°	1189.3	1190.2	1189.8	1188.2	1186.6	1184.9	1183.2
157.5°	1224.3	1225.3	1225.1	1223.8	1222.5	1221.2	1219.9
160°	1246.0	1247.2	1247.3	1246.3	1245.5	1244.5	1243.5
162.5°	1266.3	1267.5	1267.3	1265.8	1264.3	1262.8	1261.3
165°	1292.2	1293.6	1293.5	1291.8	1290.2	1288.5	1286.9
167.5°	1313.0	1314.5	1314.5	1313.0	1311.6	1310.1	1308.6
170°	1324.6	1326.2	1326.2	1324.6	1323.0	1321.3	1319.6
172.5°	1333.3	1334.8	1334.7	1333.1	1331.4	1329.8	1328.1
175°	1343.0	1344.3	1344.2	1342.6	1340.9	1339.3	1337.7
177.5°	1347.0	1348.1	1348.0	1346.6	1345.3	1344.0	1342.7
180°	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1

(END OF REPORT)