

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: P332727-930

Luminaire Tested: **S124DIW-S350D1050U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332727-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIW-S350D1050U930-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1050 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4704.6 lumens
Efficiency: N/A
Efficacy: 123.8 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

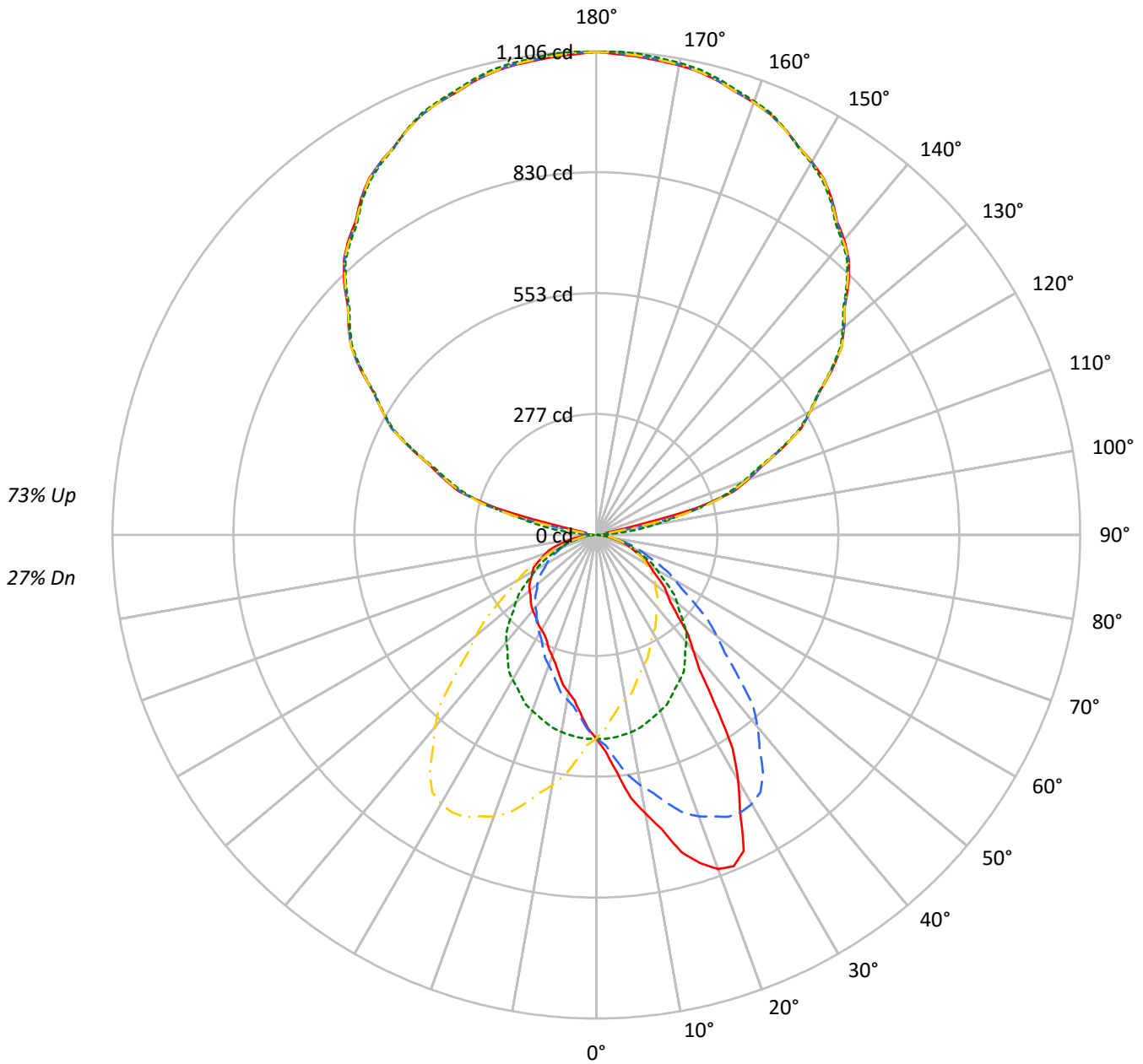
Input Watts (W): 38
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27
1	93	89	85	82	83	79	76	74	62	60	58	46	45	44	31	31	30	23
2	85	78	72	67	75	70	65	60	54	51	48	41	38	37	28	27	25	20
3	77	68	61	56	69	61	55	51	48	44	41	36	33	31	25	23	22	17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	22	20	19	15
5	65	54	46	40	58	48	42	37	38	33	30	29	26	23	20	18	16	13
6	60	48	40	35	53	43	37	32	34	29	26	26	23	20	18	16	14	11
7	55	43	36	30	49	39	32	28	31	26	23	24	20	18	17	14	13	10
8	51	39	32	27	45	35	29	24	28	23	20	21	18	16	15	13	12	9
9	47	36	28	24	42	32	26	22	26	21	18	20	16	14	14	12	10	8
10	44	32	26	21	39	29	23	19	24	19	16	18	15	13	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3760	3760	3760	3760
5°	4428	3770	3327	3770
10°	5302	3754	2995	3754
15°	6273	3716	2751	3716
20°	6985	3677	2533	3677
25°	7098	3619	2382	3619
30°	6040	3566	2335	3566
35°	4644	3476	2335	3476
40°	3620	3371	2380	3371
45°	3017	3214	2419	3214
50°	2656	3022	2501	3022
55°	2434	2792	2601	2792
60°	2280	2585	2722	2585
65°	2122	2355	2823	2355
70°	1940	2127	2887	2127
75°	1734	1871	2854	1871
80°	1450	1534	2762	1534
85°	1074	1112	2640	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.4	1.0
10°-20°	139.9	3.0
20°-30°	221.8	4.7
30°-40°	246.8	5.2
40°-50°	224.7	4.8
50°-60°	183.6	3.9
60°-70°	131.1	2.8
70°-80°	72.2	1.5
80°-90°	22.9	0.5
90°-100°	37.8	0.8
100°-110°	240.8	5.1
110°-120°	460.7	9.8
120°-130°	584.9	12.4
130°-140°	625.8	13.3
140°-150°	585.2	12.4
150°-160°	471.9	10.0
160°-170°	304.4	6.5
170°-180°	104.9	2.2
0°-30°	407.0	8.7
0°-40°	653.9	13.9
0°-60°	1062.2	22.6
0°-90°	1288.3	27.4
90°-120°	739.3	15.7
90°-150°	2535.2	53.9
90°-180°	3416.0	72.6
0°-180°	4704.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	466	466	466	466	466	
5°	546	465	411	465	546	56
15°	751	445	329	445	751	212
25°	797	406	267	406	797	351
35°	471	353	237	353	471	299
45°	264	282	212	282	264	208
55°	173	198	185	198	173	156
65°	111	123	148	123	111	110
75°	56	60	92	60	56	59
85°	12	12	28	12	12	15
90°	25	2	25	2	25	11
95°	24	45	24	45	24	19
105°	236	249	236	249	236	205
115°	468	464	468	464	468	463
125°	658	653	658	653	658	586
135°	815	810	815	810	815	628
145°	938	933	938	933	938	586
155°	1023	1023	1023	1023	1023	472
165°	1075	1080	1075	1080	1075	304
175°	1098	1104	1098	1104	1098	105
180°	1104	1104	1104	1104	1104	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8
2.5°	495.7	495.6	494.1	493.7	492.7	491.3	491.0	488.4	483.6	481.2	480.6
5°	546.4	550.3	545.3	544.3	543.7	537.4	534.1	530.3	521.4	516.2	512.1
7.5°	607.0	607.4	605.2	603.5	598.5	593.0	584.7	575.8	565.2	554.2	545.9
10°	646.8	648.3	645.8	645.5	635.6	629.4	617.1	606.7	594.7	581.4	569.2
12.5°	688.8	686.6	685.3	677.1	675.2	664.0	649.6	639.0	620.4	605.1	589.0
15°	750.6	746.3	743.6	732.3	726.7	711.0	695.8	684.0	659.9	636.9	619.5
17.5°	786.8	791.1	784.9	780.2	765.7	754.7	739.2	714.4	695.6	667.1	645.1
20°	813.1	813.5	810.0	805.2	793.9	779.9	763.0	736.0	713.4	685.0	654.8
22.5°	820.2	820.3	818.8	814.3	805.7	794.4	777.3	754.7	727.4	696.6	666.4
25°	796.9	796.1	797.9	802.9	799.6	796.1	786.3	769.5	744.0	711.4	679.0
27.5°	710.3	715.7	725.5	737.8	749.7	758.7	761.2	757.8	742.1	715.3	681.3
30°	647.9	654.5	661.9	674.2	698.1	711.8	726.8	738.3	731.9	710.5	678.8
32.5°	579.4	581.1	591.9	605.9	627.9	654.2	678.1	701.2	708.9	697.7	671.2
35°	471.2	473.9	485.7	499.5	526.4	558.6	594.5	626.6	653.0	663.6	650.0
37.5°	384.5	392.2	400.6	415.5	439.1	468.1	505.4	546.9	586.3	612.7	617.2
40°	343.5	348.3	354.2	365.7	385.7	414.3	446.3	493.7	535.7	573.5	585.8
42.5°	311.0	313.9	317.6	327.8	343.1	371.5	400.8	442.5	484.5	529.8	550.5
45°	264.3	267.3	273.5	279.4	291.0	310.6	337.9	372.2	414.5	458.0	496.3
47.5°	230.6	232.4	236.1	242.6	252.4	265.4	287.5	316.2	355.3	397.7	438.4
50°	211.5	213.0	215.9	221.7	229.3	240.8	258.9	285.8	316.4	359.1	399.0
52.5°	196.3	197.0	199.1	203.0	209.0	218.7	233.7	255.8	284.4	322.4	362.2
55°	172.9	173.7	175.6	178.5	183.7	189.9	201.2	217.8	242.7	275.7	310.3
57.5°	153.6	154.2	155.7	156.9	161.2	166.2	175.0	186.8	205.6	233.7	264.5
60°	141.2	140.9	142.8	143.7	146.7	150.9	157.7	169.0	185.4	208.0	236.4
62.5°	129.2	128.7	130.3	131.6	133.2	136.8	142.4	151.2	164.6	185.0	209.5
65°	111.1	110.4	111.4	112.9	114.4	116.3	120.4	128.3	138.9	153.6	172.3
67.5°	93.0	93.8	94.0	94.7	95.6	98.2	101.0	106.6	114.1	125.9	141.7
70°	82.2	82.4	83.2	83.2	83.7	86.1	88.4	91.6	99.0	109.8	122.7
72.5°	71.4	72.2	71.9	72.5	73.0	74.5	76.1	79.3	85.5	93.6	104.5
75°	55.6	56.2	56.2	56.3	56.9	57.5	58.9	61.1	65.6	71.6	79.1
77.5°	40.5	40.6	40.8	41.6	41.6	42.5	43.5	45.3	47.5	51.6	56.3
80°	31.2	31.6	31.5	31.9	31.9	32.6	33.0	35.3	36.3	39.0	42.6
82.5°	22.9	23.3	23.2	23.8	24.1	24.3	24.8	25.8	26.7	29.1	30.6
85°	11.6	12.0	11.6	12.0	12.6	12.7	13.3	13.5	14.3	14.8	16.2
87.5°	8.3	8.7	8.6	8.7	9.0	9.0	8.9	8.6	9.0	8.9	9.2
90°	24.8	24.4	24.1	23.6	23.3	22.6	21.4	20.4	19.2	18.2	16.7
92.5°	22.8	22.7	22.7	22.6	22.5	21.9	20.8	19.7	18.6	17.5	16.1
95°	24.0	23.8	23.6	23.4	23.2	22.6	21.4	20.4	19.2	18.2	18.0
97.5°	23.2	22.9	22.7	22.6	22.4	22.3	22.2	22.0	21.9	21.8	42.3
100°	23.2	22.9	22.7	22.6	22.4	23.9	27.0	30.1	33.3	36.4	61.7
102.5°	23.8	23.7	23.7	23.6	23.6	40.4	74.1	107.8	141.5	175.1	178.4
105°	235.5	242.1	248.7	255.3	261.9	264.3	262.7	261.1	259.3	257.7	256.8
107.5°	328.1	327.4	326.7	326.0	325.3	324.6	323.8	322.9	322.1	321.3	320.1
110°	368.4	367.9	367.3	366.8	366.2	365.7	365.4	365.0	364.7	364.3	363.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	408.7	408.1	407.3	406.7	405.9	405.6	405.7	405.8	405.9	405.9	405.4
115°	467.6	467.6	467.6	467.6	467.6	467.3	467.0	466.6	466.3	465.9	466.1
117.5°	527.3	527.4	527.5	527.6	527.7	527.7	527.8	527.8	527.9	528.0	527.6
120°	565.0	565.4	565.7	566.1	566.5	566.5	566.1	565.7	565.4	565.0	565.2
122.5°	602.0	602.4	602.8	603.2	603.5	603.6	603.3	603.2	602.9	602.7	602.4
125°	657.5	657.4	657.1	657.0	656.8	656.4	655.9	655.3	654.8	654.2	654.6
127.5°	706.3	706.4	706.5	706.7	706.9	706.9	707.1	707.2	707.4	707.4	706.5
130°	739.3	739.3	739.3	739.3	739.3	739.2	739.1	738.8	738.7	738.5	737.9
132.5°	769.7	769.9	770.0	770.1	770.3	770.3	770.1	769.9	769.7	769.6	768.8
135°	815.3	815.0	814.6	814.2	813.8	813.5	813.1	812.8	812.4	812.0	811.3
137.5°	854.3	854.4	854.5	854.6	854.8	854.6	854.2	853.8	853.4	853.0	852.2
140°	881.4	881.2	881.0	880.8	880.7	880.3	879.7	879.2	878.6	878.1	877.8
142.5°	903.8	903.8	903.8	903.8	903.7	903.5	903.1	902.7	902.3	901.9	901.6
145°	938.4	938.0	937.7	937.3	936.9	936.6	936.5	936.3	936.1	935.9	935.9
147.5°	966.9	966.8	966.6	966.5	966.2	966.0	965.9	965.8	965.6	965.5	965.6
150°	985.5	985.3	985.1	984.9	984.7	984.6	984.6	984.6	984.6	984.6	984.8
152.5°	1001.4	1001.4	1001.5	1001.7	1001.8	1001.7	1001.4	1001.1	1000.8	1000.5	1000.9
155°	1022.6	1023.2	1023.8	1024.3	1024.8	1024.7	1024.0	1023.3	1022.5	1021.8	1022.4
157.5°	1040.5	1041.5	1042.4	1043.3	1044.3	1044.3	1043.3	1042.4	1041.5	1040.5	1041.1
160°	1052.4	1053.4	1054.6	1055.6	1056.8	1056.8	1055.6	1054.6	1053.4	1052.4	1052.6
162.5°	1061.6	1062.9	1064.1	1065.4	1066.7	1066.7	1065.6	1064.5	1063.4	1062.3	1062.5
165°	1074.6	1076.4	1078.0	1079.6	1081.2	1081.4	1079.9	1078.5	1077.0	1075.5	1075.5
167.5°	1084.4	1086.3	1088.1	1090.0	1091.8	1091.8	1090.3	1088.7	1087.0	1085.4	1085.6
170°	1090.4	1092.2	1094.1	1095.8	1097.7	1097.9	1096.4	1094.9	1093.5	1092.0	1091.8
172.5°	1093.6	1095.7	1097.6	1099.6	1101.6	1101.9	1100.4	1098.9	1097.5	1096.0	1095.8
175°	1097.8	1100.0	1102.2	1104.4	1106.6	1106.9	1105.2	1103.6	1102.0	1100.3	1100.1
177.5°	1100.5	1102.2	1104.0	1105.7	1107.5	1107.8	1106.6	1105.5	1104.2	1103.1	1102.8
180°	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8
2.5°	480.8	478.6	477.0	475.8	472.5	470.4	468.9	466.8	464.2	461.6	458.4
5°	508.0	501.5	496.7	489.3	482.4	476.6	470.6	465.2	458.7	451.5	446.3
7.5°	536.7	526.9	514.5	503.6	491.4	480.8	471.3	461.6	451.5	441.6	432.7
10°	555.0	542.4	528.5	512.1	496.7	483.0	470.3	457.9	445.9	434.0	423.7
12.5°	574.5	558.9	538.3	519.2	501.9	483.6	468.2	453.1	438.6	426.1	414.2
15°	600.9	578.3	554.6	528.9	506.1	484.7	463.7	444.6	428.4	411.7	400.1
17.5°	617.0	589.1	562.0	535.2	507.6	480.5	457.9	435.9	415.6	399.1	384.5
20°	627.7	599.9	566.1	539.3	506.5	478.7	452.5	428.0	406.8	389.2	374.1
22.5°	636.9	604.9	571.0	535.7	503.1	473.6	444.9	420.3	398.6	380.1	365.7
25°	642.0	605.1	568.4	533.3	496.3	461.4	435.3	406.3	383.2	363.7	348.3
27.5°	642.5	603.1	561.6	522.6	484.4	451.8	419.0	393.1	369.1	348.5	333.6
30°	640.8	599.7	555.1	512.9	474.5	439.2	410.6	382.5	357.9	337.5	322.0
32.5°	635.4	592.6	546.8	502.1	462.3	427.7	398.3	371.5	347.6	327.4	311.2
35°	619.8	577.5	528.7	482.2	441.5	406.6	379.9	352.7	328.8	309.7	294.1
37.5°	595.3	557.2	507.5	459.4	419.4	384.3	357.9	333.4	311.8	292.4	276.4
40°	574.1	540.5	490.6	443.8	400.6	367.2	342.5	319.9	298.5	280.1	264.9
42.5°	549.5	520.2	474.3	424.7	382.9	349.4	325.4	305.1	284.9	268.0	252.7
45°	505.7	486.4	443.2	397.3	353.8	322.2	299.3	281.5	264.6	247.9	235.2
47.5°	455.4	445.8	409.4	365.8	324.7	293.4	273.5	257.1	242.2	228.2	217.0
50°	421.6	416.9	385.6	343.5	304.1	274.8	254.7	240.6	227.9	215.6	204.9
52.5°	388.2	388.1	359.7	321.2	284.8	256.6	236.6	223.5	212.5	202.4	192.9
55°	337.3	342.7	320.5	286.2	253.6	228.0	210.1	198.4	190.6	182.4	175.2
57.5°	290.5	299.5	281.1	250.9	223.6	200.2	184.6	175.8	167.5	162.5	157.3
60°	259.9	268.4	254.1	228.7	203.0	183.0	168.0	160.1	153.0	149.5	145.9
62.5°	232.8	240.3	229.8	206.1	183.8	164.5	152.0	144.4	139.6	135.8	133.4
65°	194.0	200.3	191.2	174.1	154.9	139.5	129.3	123.3	118.7	117.2	114.4
67.5°	156.8	162.6	157.7	143.1	127.8	116.0	108.0	102.3	99.5	98.2	96.3
70°	134.7	140.5	135.3	122.5	110.7	100.9	93.4	90.1	87.2	86.7	84.0
72.5°	116.0	119.9	114.7	104.8	94.7	86.4	80.6	77.1	75.7	74.6	73.1
75°	87.0	90.5	87.0	79.3	72.2	66.4	61.4	60.0	58.3	57.7	56.7
77.5°	61.6	64.6	62.0	57.2	51.8	47.3	44.6	42.9	42.5	41.5	42.0
80°	47.0	49.0	46.5	43.2	39.0	35.9	34.0	33.0	31.9	31.5	32.2
82.5°	33.8	34.7	33.3	31.1	28.0	26.0	24.7	23.6	23.3	23.4	23.4
85°	17.5	17.4	17.2	15.2	14.3	13.0	12.1	12.0	11.7	12.1	12.6
87.5°	8.9	8.8	8.3	7.3	6.5	5.6	5.1	4.5	5.1	5.6	6.2
90°	15.2	13.8	12.3	10.5	8.6	6.5	4.5	2.4	4.5	6.5	8.6
92.5°	14.6	13.1	11.7	10.8	10.8	10.6	10.5	10.4	10.5	10.6	10.8
95°	17.8	17.6	17.4	20.5	26.7	32.9	39.2	45.4	39.2	32.9	26.7
97.5°	62.8	83.2	103.8	112.0	108.2	104.3	100.4	96.4	100.4	104.3	108.2
100°	87.0	112.3	137.7	148.7	145.4	142.1	138.8	135.5	138.8	142.1	145.4
102.5°	181.7	185.1	188.3	188.7	186.4	183.9	181.5	179.1	181.5	183.9	186.4
105°	255.9	254.9	254.0	253.1	251.9	250.9	249.7	248.7	249.7	250.9	251.9
107.5°	318.9	317.6	316.3	315.4	314.9	314.3	313.8	313.2	313.8	314.3	314.9
110°	362.1	361.0	359.9	359.1	358.5	357.9	357.4	356.9	357.4	357.9	358.5



TEST NUMBER: P332727-930

CATALOG NUMBER: S124DIW-S350D1050U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	404.9	404.4	403.9	403.1	402.1	401.1	400.1	399.2	400.1	401.1	402.1
115°	466.3	466.4	466.6	466.4	465.9	465.4	464.8	464.2	464.8	465.4	465.9
117.5°	527.2	526.8	526.4	525.8	525.1	524.3	523.6	522.9	523.6	524.3	525.1
120°	565.4	565.6	565.7	565.5	564.8	564.0	563.3	562.6	563.3	564.0	564.8
122.5°	602.2	601.9	601.7	601.3	600.9	600.4	600.0	599.6	600.0	600.4	600.9
125°	654.9	655.3	655.7	655.5	654.8	654.0	653.3	652.6	653.3	654.0	654.8
127.5°	705.7	704.9	704.0	703.5	703.4	703.2	703.0	702.8	703.0	703.2	703.4
130°	737.4	736.9	736.3	735.9	735.7	735.6	735.4	735.2	735.4	735.6	735.7
132.5°	768.2	767.4	766.8	766.2	765.9	765.6	765.2	764.9	765.2	765.6	765.9
135°	810.6	809.8	809.1	808.8	808.9	809.2	809.3	809.5	809.3	809.2	808.9
137.5°	851.3	850.5	849.7	849.3	849.2	849.1	849.1	849.0	849.1	849.1	849.2
140°	877.3	877.0	876.6	876.3	875.9	875.5	875.1	874.8	875.1	875.5	875.9
142.5°	901.4	901.2	901.0	900.6	899.9	899.2	898.5	897.9	898.5	899.2	899.9
145°	935.9	935.9	935.9	935.6	935.1	934.5	934.0	933.4	934.0	934.5	935.1
147.5°	965.9	966.0	966.2	965.8	964.7	963.8	962.7	961.6	962.7	963.8	964.7
150°	985.0	985.2	985.4	985.1	984.4	983.7	982.9	982.2	982.9	983.7	984.4
152.5°	1001.2	1001.5	1001.8	1001.7	1001.1	1000.5	1000.0	999.3	1000.0	1000.5	1001.1
155°	1023.0	1023.4	1024.0	1024.2	1024.0	1023.9	1023.7	1023.4	1023.7	1023.9	1024.0
157.5°	1041.7	1042.4	1043.0	1043.3	1043.4	1043.6	1043.7	1043.8	1043.7	1043.6	1043.4
160°	1052.7	1053.0	1053.1	1053.4	1054.0	1054.6	1055.2	1055.6	1055.2	1054.6	1054.0
162.5°	1062.7	1062.8	1063.0	1063.5	1064.1	1064.9	1065.6	1066.2	1065.6	1064.9	1064.1
165°	1075.5	1075.5	1075.5	1076.0	1076.8	1077.8	1078.7	1079.6	1078.7	1077.8	1076.8
167.5°	1085.7	1085.7	1085.9	1086.4	1087.4	1088.3	1089.2	1090.2	1089.2	1088.3	1087.4
170°	1091.7	1091.4	1091.3	1091.8	1092.8	1094.0	1095.0	1096.2	1095.0	1094.0	1092.8
172.5°	1095.6	1095.4	1095.3	1095.7	1096.8	1097.9	1099.0	1100.1	1099.0	1097.9	1096.8
175°	1099.9	1099.8	1099.6	1100.0	1101.1	1102.2	1103.3	1104.4	1103.3	1102.2	1101.1
177.5°	1102.5	1102.2	1102.0	1102.3	1103.3	1104.3	1105.4	1106.4	1105.4	1104.3	1103.3
180°	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4



TEST NUMBER: P332727-930

CATALOG NUMBER: S124DIW-S350D1050U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8
2.5°	456.8	455.4	453.5	450.7	448.3	445.9	445.2	444.3	446.2	444.7	444.2
5°	441.9	437.8	432.6	426.6	423.1	418.2	417.2	415.2	413.3	413.1	411.2
7.5°	426.0	420.0	413.2	407.2	401.5	396.0	392.4	391.7	388.8	387.1	385.2
10°	415.8	408.5	400.6	394.8	388.2	382.5	378.4	376.1	374.1	372.0	370.1
12.5°	403.8	396.0	389.5	383.2	375.4	371.0	364.4	360.4	360.0	360.0	355.0
15°	389.8	382.0	372.0	363.1	358.9	350.4	346.7	342.1	339.2	336.3	334.0
17.5°	373.7	364.1	356.3	346.1	338.0	331.3	326.4	323.7	319.3	315.2	312.3
20°	363.7	353.5	345.2	334.4	325.5	317.2	313.2	309.3	306.1	302.6	299.3
22.5°	353.5	342.8	332.7	322.2	314.0	305.2	301.3	296.0	292.9	291.0	287.7
25°	337.5	325.9	314.3	304.3	295.8	288.0	282.9	278.8	275.3	273.8	271.7
27.5°	320.0	308.5	297.3	285.9	276.3	270.7	266.5	263.5	261.5	259.4	258.4
30°	308.9	296.9	285.0	274.3	265.5	259.9	256.1	254.0	252.4	251.4	250.5
32.5°	297.7	285.8	273.3	263.6	255.6	250.6	247.7	245.6	244.8	244.5	244.1
35°	279.6	267.7	256.1	247.4	239.9	237.9	235.4	234.2	233.8	235.2	235.8
37.5°	262.1	251.0	240.4	232.0	227.0	224.2	223.3	223.4	224.8	225.9	227.3
40°	250.9	240.0	230.0	222.7	218.0	216.3	215.9	216.9	218.4	219.8	221.4
42.5°	239.9	229.3	220.1	213.3	210.0	208.4	208.6	209.6	211.8	213.4	215.7
45°	222.9	214.0	205.1	199.5	196.8	197.2	197.2	198.9	201.1	203.6	206.1
47.5°	206.8	197.9	190.6	185.9	184.5	184.2	185.2	187.5	190.5	193.6	197.1
50°	196.1	187.5	181.2	176.9	175.4	175.9	177.5	179.6	183.3	187.2	190.9
52.5°	185.1	177.3	171.5	167.5	166.4	167.5	169.0	172.4	175.6	179.8	184.2
55°	168.0	161.5	156.9	154.0	153.6	154.2	155.9	159.6	164.2	169.4	173.7
57.5°	151.2	145.6	141.4	139.4	139.6	140.1	143.0	147.3	152.3	157.8	163.3
60°	139.7	134.7	131.2	129.6	129.9	131.0	134.5	138.5	144.7	150.1	155.9
62.5°	128.9	124.5	121.2	119.8	119.5	122.1	125.4	129.6	135.7	141.8	148.1
65°	111.5	108.0	105.3	104.6	105.2	107.1	111.4	116.9	122.1	128.5	135.1
67.5°	94.6	91.7	89.8	90.2	90.9	93.8	97.3	102.1	108.0	114.6	121.1
70°	83.7	81.0	79.5	79.7	80.9	84.3	87.4	92.2	98.6	105.3	110.7
72.5°	72.6	70.8	69.5	70.3	71.4	73.8	77.7	82.5	88.1	94.4	100.1
75°	55.8	55.8	55.0	55.6	57.3	59.6	62.5	67.5	73.1	78.2	82.8
77.5°	41.3	40.9	41.4	42.2	43.1	45.9	49.2	52.8	57.0	62.0	65.9
80°	31.6	31.9	32.8	34.0	34.3	36.4	39.9	43.2	46.5	50.7	54.4
82.5°	23.8	24.0	24.5	25.9	26.3	28.6	30.8	34.1	37.1	39.9	43.0
85°	13.0	13.0	13.9	14.5	15.4	17.0	18.3	20.3	23.0	24.9	27.8
87.5°	7.0	7.4	8.3	8.9	9.7	10.8	11.3	13.2	14.0	15.0	16.6
90°	10.5	12.3	13.8	15.2	16.7	18.2	19.2	20.4	21.4	22.6	23.3
92.5°	10.8	11.7	13.1	14.6	16.1	17.5	18.6	19.7	20.8	21.9	22.5
95°	20.5	17.4	17.6	17.8	18.0	18.2	19.2	20.4	21.4	22.6	23.2
97.5°	112.0	103.8	83.2	62.8	42.3	21.8	21.9	22.0	22.2	22.3	22.4
100°	148.7	137.7	112.3	87.0	61.7	36.4	33.3	30.1	27.0	23.9	22.4
102.5°	188.7	188.3	185.1	181.7	178.4	175.1	141.5	107.8	74.1	40.4	23.6
105°	253.1	254.0	254.9	255.9	256.8	257.7	259.3	261.1	262.7	264.3	261.9
107.5°	315.4	316.3	317.6	318.9	320.1	321.3	322.1	322.9	323.8	324.6	325.3
110°	359.1	359.9	361.0	362.1	363.2	364.3	364.7	365.0	365.4	365.7	366.2



TEST NUMBER: P332727-930

CATALOG NUMBER: S124DIW-S350D1050U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	403.1	403.9	404.4	404.9	405.4	405.9	405.9	405.8	405.7	405.6	405.9
115°	466.4	466.6	466.4	466.3	466.1	465.9	466.3	466.6	467.0	467.3	467.6
117.5°	525.8	526.4	526.8	527.2	527.6	528.0	527.9	527.8	527.8	527.7	527.7
120°	565.5	565.7	565.6	565.4	565.2	565.0	565.4	565.7	566.1	566.5	566.5
122.5°	601.3	601.7	601.9	602.2	602.4	602.7	602.9	603.2	603.3	603.6	603.5
125°	655.5	655.7	655.3	654.9	654.6	654.2	654.8	655.3	655.9	656.4	656.8
127.5°	703.5	704.0	704.9	705.7	706.5	707.4	707.4	707.2	707.1	706.9	706.9
130°	735.9	736.3	736.9	737.4	737.9	738.5	738.7	738.8	739.1	739.2	739.3
132.5°	766.2	766.8	767.4	768.2	768.8	769.6	769.7	769.9	770.1	770.3	770.3
135°	808.8	809.1	809.8	810.6	811.3	812.0	812.4	812.8	813.1	813.5	813.8
137.5°	849.3	849.7	850.5	851.3	852.2	853.0	853.4	853.8	854.2	854.6	854.8
140°	876.3	876.6	877.0	877.3	877.8	878.1	878.6	879.2	879.7	880.3	880.7
142.5°	900.6	901.0	901.2	901.4	901.6	901.9	902.3	902.7	903.1	903.5	903.7
145°	935.6	935.9	935.9	935.9	935.9	935.9	936.1	936.3	936.5	936.6	936.9
147.5°	965.8	966.2	966.0	965.9	965.6	965.5	965.6	965.8	965.9	966.0	966.2
150°	985.1	985.4	985.2	985.0	984.8	984.6	984.6	984.6	984.6	984.6	984.7
152.5°	1001.7	1001.8	1001.5	1001.2	1000.9	1000.5	1000.8	1001.1	1001.4	1001.7	1001.8
155°	1024.2	1024.0	1023.4	1023.0	1022.4	1021.8	1022.5	1023.3	1024.0	1024.7	1024.8
157.5°	1043.3	1043.0	1042.4	1041.7	1041.1	1040.5	1041.5	1042.4	1043.3	1044.3	1044.3
160°	1053.4	1053.1	1053.0	1052.7	1052.6	1052.4	1053.4	1054.6	1055.6	1056.8	1056.8
162.5°	1063.5	1063.0	1062.8	1062.7	1062.5	1062.3	1063.4	1064.5	1065.6	1066.7	1066.7
165°	1076.0	1075.5	1075.5	1075.5	1075.5	1075.5	1077.0	1078.5	1079.9	1081.4	1081.2
167.5°	1086.4	1085.9	1085.7	1085.7	1085.6	1085.4	1087.0	1088.7	1090.3	1091.8	1091.8
170°	1091.8	1091.3	1091.4	1091.7	1091.8	1092.0	1093.5	1094.9	1096.4	1097.9	1097.7
172.5°	1095.7	1095.3	1095.4	1095.6	1095.8	1096.0	1097.5	1098.9	1100.4	1101.9	1101.6
175°	1100.0	1099.6	1099.8	1099.9	1100.1	1100.3	1102.0	1103.6	1105.2	1106.9	1106.6
177.5°	1102.3	1102.0	1102.2	1102.5	1102.8	1103.1	1104.2	1105.5	1106.6	1107.8	1107.5
180°	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4



TEST NUMBER: P332727-930

CATALOG NUMBER: S124DIW-S350D1050U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8
2.5°	443.8	443.6	442.5	442.3	442.5	443.6	443.8	444.2	444.7	446.2	444.3
5°	410.0	409.0	408.5	410.6	408.5	409.0	410.0	411.2	413.1	413.3	415.2
7.5°	384.5	383.8	382.0	381.5	382.0	383.8	384.5	385.2	387.1	388.8	391.7
10°	368.2	367.4	365.8	365.4	365.8	367.4	368.2	370.1	372.0	374.1	376.1
12.5°	352.4	350.9	350.6	351.0	350.6	350.9	352.4	355.0	360.0	360.0	360.4
15°	331.5	330.7	328.6	329.2	328.6	330.7	331.5	334.0	336.3	339.2	342.1
17.5°	310.9	310.0	307.4	309.7	307.4	310.0	310.9	312.3	315.2	319.3	323.7
20°	297.9	296.4	295.1	294.8	295.1	296.4	297.9	299.3	302.6	306.1	309.3
22.5°	285.6	284.2	284.1	282.8	284.1	284.2	285.6	287.7	291.0	292.9	296.0
25°	270.1	268.8	268.4	267.4	268.4	268.8	270.1	271.7	273.8	275.3	278.8
27.5°	258.3	257.6	256.9	257.2	256.9	257.6	258.3	258.4	259.4	261.5	263.5
30°	251.0	250.9	250.5	250.5	250.5	250.9	251.0	250.5	251.4	252.4	254.0
32.5°	245.0	245.0	245.2	245.2	245.2	245.0	245.0	244.1	244.5	244.8	245.6
35°	236.6	237.2	237.5	236.9	237.5	237.2	236.6	235.8	235.2	233.8	234.2
37.5°	228.9	229.5	230.1	230.7	230.1	229.5	228.9	227.3	225.9	224.8	223.4
40°	223.1	224.4	224.8	225.8	224.8	224.4	223.1	221.4	219.8	218.4	216.9
42.5°	217.5	219.0	220.0	220.2	220.0	219.0	217.5	215.7	213.4	211.8	209.6
45°	209.0	210.5	211.9	211.9	211.9	210.5	209.0	206.1	203.6	201.1	198.9
47.5°	200.2	202.4	203.7	204.1	203.7	202.4	200.2	197.1	193.6	190.5	187.5
50°	194.1	196.8	198.2	199.1	198.2	196.8	194.1	190.9	187.2	183.3	179.6
52.5°	188.3	190.9	192.7	193.2	192.7	190.9	188.3	184.2	179.8	175.6	172.4
55°	178.1	182.0	184.1	184.8	184.1	182.0	178.1	173.7	169.4	164.2	159.6
57.5°	168.5	172.1	174.6	175.1	174.6	172.1	168.5	163.3	157.8	152.3	147.3
60°	161.1	165.0	168.0	168.6	168.0	165.0	161.1	155.9	150.1	144.7	138.5
62.5°	153.5	157.6	160.4	161.8	160.4	157.6	153.5	148.1	141.8	135.7	129.6
65°	140.5	144.6	147.2	147.8	147.2	144.6	140.5	135.1	128.5	122.1	116.9
67.5°	126.2	130.3	132.0	133.1	132.0	130.3	126.2	121.1	114.6	108.0	102.1
70°	116.2	119.4	121.4	122.3	121.4	119.4	116.2	110.7	105.3	98.6	92.2
72.5°	104.8	108.2	110.4	110.6	110.4	108.2	104.8	100.1	94.4	88.1	82.5
75°	87.2	90.3	91.5	91.5	91.5	90.3	87.2	82.8	78.2	73.1	67.5
77.5°	69.1	70.6	72.1	72.4	72.1	70.6	69.1	65.9	62.0	57.0	52.8
80°	57.3	58.3	59.4	59.4	59.4	58.3	57.3	54.4	50.7	46.5	43.2
82.5°	45.2	46.1	47.2	47.0	47.2	46.1	45.2	43.0	39.9	37.1	34.1
85°	27.4	29.1	28.9	28.5	28.9	29.1	27.4	27.8	24.9	23.0	20.3
87.5°	17.1	17.3	17.9	18.3	17.9	17.3	17.1	16.6	15.0	14.0	13.2
90°	23.6	24.1	24.4	24.8	24.4	24.1	23.6	23.3	22.6	21.4	20.4
92.5°	22.6	22.7	22.7	22.8	22.7	22.7	22.6	22.5	21.9	20.8	19.7
95°	23.4	23.6	23.8	24.0	23.8	23.6	23.4	23.2	22.6	21.4	20.4
97.5°	22.6	22.7	22.9	23.2	22.9	22.7	22.6	22.4	22.3	22.2	22.0
100°	22.6	22.7	22.9	23.2	22.9	22.7	22.6	22.4	23.9	27.0	30.1
102.5°	23.6	23.7	23.7	23.8	23.7	23.7	23.6	23.6	40.4	74.1	107.8
105°	255.3	248.7	242.1	235.5	242.1	248.7	255.3	261.9	264.3	262.7	261.1
107.5°	326.0	326.7	327.4	328.1	327.4	326.7	326.0	325.3	324.6	323.8	322.9
110°	366.8	367.3	367.9	368.4	367.9	367.3	366.8	366.2	365.7	365.4	365.0



TEST NUMBER: P332727-930

CATALOG NUMBER: S124DIW-S350D1050U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	406.7	407.3	408.1	408.7	408.1	407.3	406.7	405.9	405.6	405.7	405.8
115°	467.6	467.6	467.6	467.6	467.6	467.6	467.6	467.6	467.3	467.0	466.6
117.5°	527.6	527.5	527.4	527.3	527.4	527.5	527.6	527.7	527.7	527.8	527.8
120°	566.1	565.7	565.4	565.0	565.4	565.7	566.1	566.5	566.5	566.1	565.7
122.5°	603.2	602.8	602.4	602.0	602.4	602.8	603.2	603.5	603.6	603.3	603.2
125°	657.0	657.1	657.4	657.5	657.4	657.1	657.0	656.8	656.4	655.9	655.3
127.5°	706.7	706.5	706.4	706.3	706.4	706.5	706.7	706.9	706.9	707.1	707.2
130°	739.3	739.3	739.3	739.3	739.3	739.3	739.3	739.3	739.2	739.1	738.8
132.5°	770.1	770.0	769.9	769.7	769.9	770.0	770.1	770.3	770.3	770.1	769.9
135°	814.2	814.6	815.0	815.3	815.0	814.6	814.2	813.8	813.5	813.1	812.8
137.5°	854.6	854.5	854.4	854.3	854.4	854.5	854.6	854.8	854.6	854.2	853.8
140°	880.8	881.0	881.2	881.4	881.2	881.0	880.8	880.7	880.3	879.7	879.2
142.5°	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.7	903.5	903.1	902.7
145°	937.3	937.7	938.0	938.4	938.0	937.7	937.3	936.9	936.6	936.5	936.3
147.5°	966.5	966.6	966.8	966.9	966.8	966.6	966.5	966.2	966.0	965.9	965.8
150°	984.9	985.1	985.3	985.5	985.3	985.1	984.9	984.7	984.6	984.6	984.6
152.5°	1001.7	1001.5	1001.4	1001.4	1001.4	1001.5	1001.7	1001.8	1001.7	1001.4	1001.1
155°	1024.3	1023.8	1023.2	1022.6	1023.2	1023.8	1024.3	1024.8	1024.7	1024.0	1023.3
157.5°	1043.3	1042.4	1041.5	1040.5	1041.5	1042.4	1043.3	1044.3	1044.3	1043.3	1042.4
160°	1055.6	1054.6	1053.4	1052.4	1053.4	1054.6	1055.6	1056.8	1056.8	1055.6	1054.6
162.5°	1065.4	1064.1	1062.9	1061.6	1062.9	1064.1	1065.4	1066.7	1066.7	1065.6	1064.5
165°	1079.6	1078.0	1076.4	1074.6	1076.4	1078.0	1079.6	1081.2	1081.4	1079.9	1078.5
167.5°	1090.0	1088.1	1086.3	1084.4	1086.3	1088.1	1090.0	1091.8	1091.8	1090.3	1088.7
170°	1095.8	1094.1	1092.2	1090.4	1092.2	1094.1	1095.8	1097.7	1097.9	1096.4	1094.9
172.5°	1099.6	1097.6	1095.7	1093.6	1095.7	1097.6	1099.6	1101.6	1101.9	1100.4	1098.9
175°	1104.4	1102.2	1100.0	1097.8	1100.0	1102.2	1104.4	1106.6	1106.9	1105.2	1103.6
177.5°	1105.7	1104.0	1102.2	1100.5	1102.2	1104.0	1105.7	1107.5	1107.8	1106.6	1105.5
180°	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4



TEST NUMBER: P332727-930

CATALOG NUMBER: S124DIW-S350D1050U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8
2.5°	445.2	445.9	448.3	450.7	453.5	455.4	456.8	458.4	461.6	464.2	466.8
5°	417.2	418.2	423.1	426.6	432.6	437.8	441.9	446.3	451.5	458.7	465.2
7.5°	392.4	396.0	401.5	407.2	413.2	420.0	426.0	432.7	441.6	451.5	461.6
10°	378.4	382.5	388.2	394.8	400.6	408.5	415.8	423.7	434.0	445.9	457.9
12.5°	364.4	371.0	375.4	383.2	389.5	396.0	403.8	414.2	426.1	438.6	453.1
15°	346.7	350.4	358.9	363.1	372.0	382.0	389.8	400.1	411.7	428.4	444.6
17.5°	326.4	331.3	338.0	346.1	356.3	364.1	373.7	384.5	399.1	415.6	435.9
20°	313.2	317.2	325.5	334.4	345.2	353.5	363.7	374.1	389.2	406.8	428.0
22.5°	301.3	305.2	314.0	322.2	332.7	342.8	353.5	365.7	380.1	398.6	420.3
25°	282.9	288.0	295.8	304.3	314.3	325.9	337.5	348.3	363.7	383.2	406.3
27.5°	266.5	270.7	276.3	285.9	297.3	308.5	320.0	333.6	348.5	369.1	393.1
30°	256.1	259.9	265.5	274.3	285.0	296.9	308.9	322.0	337.5	357.9	382.5
32.5°	247.7	250.6	255.6	263.6	273.3	285.8	297.7	311.2	327.4	347.6	371.5
35°	235.4	237.9	239.9	247.4	256.1	267.7	279.6	294.1	309.7	328.8	352.7
37.5°	223.3	224.2	227.0	232.0	240.4	251.0	262.1	276.4	292.4	311.8	333.4
40°	215.9	216.3	218.0	222.7	230.0	240.0	250.9	264.9	280.1	298.5	319.9
42.5°	208.6	208.4	210.0	213.3	220.1	229.3	239.9	252.7	268.0	284.9	305.1
45°	197.2	197.2	196.8	199.5	205.1	214.0	222.9	235.2	247.9	264.6	281.5
47.5°	185.2	184.2	184.5	185.9	190.6	197.9	206.8	217.0	228.2	242.2	257.1
50°	177.5	175.9	175.4	176.9	181.2	187.5	196.1	204.9	215.6	227.9	240.6
52.5°	169.0	167.5	166.4	167.5	171.5	177.3	185.1	192.9	202.4	212.5	223.5
55°	155.9	154.2	153.6	154.0	156.9	161.5	168.0	175.2	182.4	190.6	198.4
57.5°	143.0	140.1	139.6	139.4	141.4	145.6	151.2	157.3	162.5	167.5	175.8
60°	134.5	131.0	129.9	129.6	131.2	134.7	139.7	145.9	149.5	153.0	160.1
62.5°	125.4	122.1	119.5	119.8	121.2	124.5	128.9	133.4	135.8	139.6	144.4
65°	111.4	107.1	105.2	104.6	105.3	108.0	111.5	114.4	117.2	118.7	123.3
67.5°	97.3	93.8	90.9	90.2	89.8	91.7	94.6	96.3	98.2	99.5	102.3
70°	87.4	84.3	80.9	79.7	79.5	81.0	83.7	84.0	86.7	87.2	90.1
72.5°	77.7	73.8	71.4	70.3	69.5	70.8	72.6	73.1	74.6	75.7	77.1
75°	62.5	59.6	57.3	55.6	55.0	55.8	55.8	56.7	57.7	58.3	60.0
77.5°	49.2	45.9	43.1	42.2	41.4	40.9	41.3	42.0	41.5	42.5	42.9
80°	39.9	36.4	34.3	34.0	32.8	31.9	31.6	32.2	31.5	31.9	33.0
82.5°	30.8	28.6	26.3	25.9	24.5	24.0	23.8	23.4	23.4	23.3	23.6
85°	18.3	17.0	15.4	14.5	13.9	13.0	13.0	12.6	12.1	11.7	12.0
87.5°	11.3	10.8	9.7	8.9	8.3	7.4	7.0	6.2	5.6	5.1	4.5
90°	19.2	18.2	16.7	15.2	13.8	12.3	10.5	8.6	6.5	4.5	2.4
92.5°	18.6	17.5	16.1	14.6	13.1	11.7	10.8	10.8	10.6	10.5	10.4
95°	19.2	18.2	18.0	17.8	17.6	17.4	20.5	26.7	32.9	39.2	45.4
97.5°	21.9	21.8	42.3	62.8	83.2	103.8	112.0	108.2	104.3	100.4	96.4
100°	33.3	36.4	61.7	87.0	112.3	137.7	148.7	145.4	142.1	138.8	135.5
102.5°	141.5	175.1	178.4	181.7	185.1	188.3	188.7	186.4	183.9	181.5	179.1
105°	259.3	257.7	256.8	255.9	254.9	254.0	253.1	251.9	250.9	249.7	248.7
107.5°	322.1	321.3	320.1	318.9	317.6	316.3	315.4	314.9	314.3	313.8	313.2
110°	364.7	364.3	363.2	362.1	361.0	359.9	359.1	358.5	357.9	357.4	356.9



TEST NUMBER: P332727-930

CATALOG NUMBER: S124DIW-S350D1050U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	405.9	405.9	405.4	404.9	404.4	403.9	403.1	402.1	401.1	400.1	399.2
115°	466.3	465.9	466.1	466.3	466.4	466.6	466.4	465.9	465.4	464.8	464.2
117.5°	527.9	528.0	527.6	527.2	526.8	526.4	525.8	525.1	524.3	523.6	522.9
120°	565.4	565.0	565.2	565.4	565.6	565.7	565.5	564.8	564.0	563.3	562.6
122.5°	602.9	602.7	602.4	602.2	601.9	601.7	601.3	600.9	600.4	600.0	599.6
125°	654.8	654.2	654.6	654.9	655.3	655.7	655.5	654.8	654.0	653.3	652.6
127.5°	707.4	707.4	706.5	705.7	704.9	704.0	703.5	703.4	703.2	703.0	702.8
130°	738.7	738.5	737.9	737.4	736.9	736.3	735.9	735.7	735.6	735.4	735.2
132.5°	769.7	769.6	768.8	768.2	767.4	766.8	766.2	765.9	765.6	765.2	764.9
135°	812.4	812.0	811.3	810.6	809.8	809.1	808.8	808.9	809.2	809.3	809.5
137.5°	853.4	853.0	852.2	851.3	850.5	849.7	849.3	849.2	849.1	849.1	849.0
140°	878.6	878.1	877.8	877.3	877.0	876.6	876.3	875.9	875.5	875.1	874.8
142.5°	902.3	901.9	901.6	901.4	901.2	901.0	900.6	899.9	899.2	898.5	897.9
145°	936.1	935.9	935.9	935.9	935.9	935.9	935.6	935.1	934.5	934.0	933.4
147.5°	965.6	965.5	965.6	965.9	966.0	966.2	965.8	964.7	963.8	962.7	961.6
150°	984.6	984.6	984.8	985.0	985.2	985.4	985.1	984.4	983.7	982.9	982.2
152.5°	1000.8	1000.5	1000.9	1001.2	1001.5	1001.8	1001.7	1001.1	1000.5	1000.0	999.3
155°	1022.5	1021.8	1022.4	1023.0	1023.4	1024.0	1024.2	1024.0	1023.9	1023.7	1023.4
157.5°	1041.5	1040.5	1041.1	1041.7	1042.4	1043.0	1043.3	1043.4	1043.6	1043.7	1043.8
160°	1053.4	1052.4	1052.6	1052.7	1053.0	1053.1	1053.4	1054.0	1054.6	1055.2	1055.6
162.5°	1063.4	1062.3	1062.5	1062.7	1062.8	1063.0	1063.5	1064.1	1064.9	1065.6	1066.2
165°	1077.0	1075.5	1075.5	1075.5	1075.5	1075.5	1076.0	1076.8	1077.8	1078.7	1079.6
167.5°	1087.0	1085.4	1085.6	1085.7	1085.7	1085.9	1086.4	1087.4	1088.3	1089.2	1090.2
170°	1093.5	1092.0	1091.8	1091.7	1091.4	1091.3	1091.8	1092.8	1094.0	1095.0	1096.2
172.5°	1097.5	1096.0	1095.8	1095.6	1095.4	1095.3	1095.7	1096.8	1097.9	1099.0	1100.1
175°	1102.0	1100.3	1100.1	1099.9	1099.8	1099.6	1100.0	1101.1	1102.2	1103.3	1104.4
177.5°	1104.2	1103.1	1102.8	1102.5	1102.2	1102.0	1102.3	1103.3	1104.3	1105.4	1106.4
180°	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4



TEST NUMBER: P332727-930

CATALOG NUMBER: S124DIW-S350D1050U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8
2.5°	468.9	470.4	472.5	475.8	477.0	478.6	480.8	480.6	481.2	483.6	488.4
5°	470.6	476.6	482.4	489.3	496.7	501.5	508.0	512.1	516.2	521.4	530.3
7.5°	471.3	480.8	491.4	503.6	514.5	526.9	536.7	545.9	554.2	565.2	575.8
10°	470.3	483.0	496.7	512.1	528.5	542.4	555.0	569.2	581.4	594.7	606.7
12.5°	468.2	483.6	501.9	519.2	538.3	558.9	574.5	589.0	605.1	620.4	639.0
15°	463.7	484.7	506.1	528.9	554.6	578.3	600.9	619.5	636.9	659.9	684.0
17.5°	457.9	480.5	507.6	535.2	562.0	589.1	617.0	645.1	667.1	695.6	714.4
20°	452.5	478.7	506.5	539.3	566.1	599.9	627.7	654.8	685.0	713.4	736.0
22.5°	444.9	473.6	503.1	535.7	571.0	604.9	636.9	666.4	696.6	727.4	754.7
25°	435.3	461.4	496.3	533.3	568.4	605.1	642.0	679.0	711.4	744.0	769.5
27.5°	419.0	451.8	484.4	522.6	561.6	603.1	642.5	681.3	715.3	742.1	757.8
30°	410.6	439.2	474.5	512.9	555.1	599.7	640.8	678.8	710.5	731.9	738.3
32.5°	398.3	427.7	462.3	502.1	546.8	592.6	635.4	671.2	697.7	708.9	701.2
35°	379.9	406.6	441.5	482.2	528.7	577.5	619.8	650.0	663.6	653.0	626.6
37.5°	357.9	384.3	419.4	459.4	507.5	557.2	595.3	617.2	612.7	586.3	546.9
40°	342.5	367.2	400.6	443.8	490.6	540.5	574.1	585.8	573.5	535.7	493.7
42.5°	325.4	349.4	382.9	424.7	474.3	520.2	549.5	550.5	529.8	484.5	442.5
45°	299.3	322.2	353.8	397.3	443.2	486.4	505.7	496.3	458.0	414.5	372.2
47.5°	273.5	293.4	324.7	365.8	409.4	445.8	455.4	438.4	397.7	355.3	316.2
50°	254.7	274.8	304.1	343.5	385.6	416.9	421.6	399.0	359.1	316.4	285.8
52.5°	236.6	256.6	284.8	321.2	359.7	388.1	388.2	362.2	322.4	284.4	255.8
55°	210.1	228.0	253.6	286.2	320.5	342.7	337.3	310.3	275.7	242.7	217.8
57.5°	184.6	200.2	223.6	250.9	281.1	299.5	290.5	264.5	233.7	205.6	186.8
60°	168.0	183.0	203.0	228.7	254.1	268.4	259.9	236.4	208.0	185.4	169.0
62.5°	152.0	164.5	183.8	206.1	229.8	240.3	232.8	209.5	185.0	164.6	151.2
65°	129.3	139.5	154.9	174.1	191.2	200.3	194.0	172.3	153.6	138.9	128.3
67.5°	108.0	116.0	127.8	143.1	157.7	162.6	156.8	141.7	125.9	114.1	106.6
70°	93.4	100.9	110.7	122.5	135.3	140.5	134.7	122.7	109.8	99.0	91.6
72.5°	80.6	86.4	94.7	104.8	114.7	119.9	116.0	104.5	93.6	85.5	79.3
75°	61.4	66.4	72.2	79.3	87.0	90.5	87.0	79.1	71.6	65.6	61.1
77.5°	44.6	47.3	51.8	57.2	62.0	64.6	61.6	56.3	51.6	47.5	45.3
80°	34.0	35.9	39.0	43.2	46.5	49.0	47.0	42.6	39.0	36.3	35.3
82.5°	24.7	26.0	28.0	31.1	33.3	34.7	33.8	30.6	29.1	26.7	25.8
85°	12.1	13.0	14.3	15.2	17.2	17.4	17.5	16.2	14.8	14.3	13.5
87.5°	5.1	5.6	6.5	7.3	8.3	8.8	8.9	9.2	8.9	9.0	8.6
90°	4.5	6.5	8.6	10.5	12.3	13.8	15.2	16.7	18.2	19.2	20.4
92.5°	10.5	10.6	10.8	10.8	11.7	13.1	14.6	16.1	17.5	18.6	19.7
95°	39.2	32.9	26.7	20.5	17.4	17.6	17.8	18.0	18.2	19.2	20.4
97.5°	100.4	104.3	108.2	112.0	103.8	83.2	62.8	42.3	21.8	21.9	22.0
100°	138.8	142.1	145.4	148.7	137.7	112.3	87.0	61.7	36.4	33.3	30.1
102.5°	181.5	183.9	186.4	188.7	188.3	185.1	181.7	178.4	175.1	141.5	107.8
105°	249.7	250.9	251.9	253.1	254.0	254.9	255.9	256.8	257.7	259.3	261.1
107.5°	313.8	314.3	314.9	315.4	316.3	317.6	318.9	320.1	321.3	322.1	322.9
110°	357.4	357.9	358.5	359.1	359.9	361.0	362.1	363.2	364.3	364.7	365.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	400.1	401.1	402.1	403.1	403.9	404.4	404.9	405.4	405.9	405.9	405.8
115°	464.8	465.4	465.9	466.4	466.6	466.4	466.3	466.1	465.9	466.3	466.6
117.5°	523.6	524.3	525.1	525.8	526.4	526.8	527.2	527.6	528.0	527.9	527.8
120°	563.3	564.0	564.8	565.5	565.7	565.6	565.4	565.2	565.0	565.4	565.7
122.5°	600.0	600.4	600.9	601.3	601.7	601.9	602.2	602.4	602.7	602.9	603.2
125°	653.3	654.0	654.8	655.5	655.7	655.3	654.9	654.6	654.2	654.8	655.3
127.5°	703.0	703.2	703.4	703.5	704.0	704.9	705.7	706.5	707.4	707.4	707.2
130°	735.4	735.6	735.7	735.9	736.3	736.9	737.4	737.9	738.5	738.7	738.8
132.5°	765.2	765.6	765.9	766.2	766.8	767.4	768.2	768.8	769.6	769.7	769.9
135°	809.3	809.2	808.9	808.8	809.1	809.8	810.6	811.3	812.0	812.4	812.8
137.5°	849.1	849.1	849.2	849.3	849.7	850.5	851.3	852.2	853.0	853.4	853.8
140°	875.1	875.5	875.9	876.3	876.6	877.0	877.3	877.8	878.1	878.6	879.2
142.5°	898.5	899.2	899.9	900.6	901.0	901.2	901.4	901.6	901.9	902.3	902.7
145°	934.0	934.5	935.1	935.6	935.9	935.9	935.9	935.9	935.9	936.1	936.3
147.5°	962.7	963.8	964.7	965.8	966.2	966.0	965.9	965.6	965.5	965.6	965.8
150°	982.9	983.7	984.4	985.1	985.4	985.2	985.0	984.8	984.6	984.6	984.6
152.5°	1000.0	1000.5	1001.1	1001.7	1001.8	1001.5	1001.2	1000.9	1000.5	1000.8	1001.1
155°	1023.7	1023.9	1024.0	1024.2	1024.0	1023.4	1023.0	1022.4	1021.8	1022.5	1023.3
157.5°	1043.7	1043.6	1043.4	1043.3	1043.0	1042.4	1041.7	1041.1	1040.5	1041.5	1042.4
160°	1055.2	1054.6	1054.0	1053.4	1053.1	1053.0	1052.7	1052.6	1052.4	1053.4	1054.6
162.5°	1065.6	1064.9	1064.1	1063.5	1063.0	1062.8	1062.7	1062.5	1062.3	1063.4	1064.5
165°	1078.7	1077.8	1076.8	1076.0	1075.5	1075.5	1075.5	1075.5	1075.5	1077.0	1078.5
167.5°	1089.2	1088.3	1087.4	1086.4	1085.9	1085.7	1085.7	1085.6	1085.4	1087.0	1088.7
170°	1095.0	1094.0	1092.8	1091.8	1091.3	1091.4	1091.7	1091.8	1092.0	1093.5	1094.9
172.5°	1099.0	1097.9	1096.8	1095.7	1095.3	1095.4	1095.6	1095.8	1096.0	1097.5	1098.9
175°	1103.3	1102.2	1101.1	1100.0	1099.6	1099.8	1099.9	1100.1	1100.3	1102.0	1103.6
177.5°	1105.4	1104.3	1103.3	1102.3	1102.0	1102.2	1102.5	1102.8	1103.1	1104.2	1105.5
180°	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	465.8	465.8	465.8	465.8	465.8	465.8	465.8
2.5°	491.0	491.3	492.7	493.7	494.1	495.6	495.7
5°	534.1	537.4	543.7	544.3	545.3	550.3	546.4
7.5°	584.7	593.0	598.5	603.5	605.2	607.4	607.0
10°	617.1	629.4	635.6	645.5	645.8	648.3	646.8
12.5°	649.6	664.0	675.2	677.1	685.3	686.6	688.8
15°	695.8	711.0	726.7	732.3	743.6	746.3	750.6
17.5°	739.2	754.7	765.7	780.2	784.9	791.1	786.8
20°	763.0	779.9	793.9	805.2	810.0	813.5	813.1
22.5°	777.3	794.4	805.7	814.3	818.8	820.3	820.2
25°	786.3	796.1	799.6	802.9	797.9	796.1	796.9
27.5°	761.2	758.7	749.7	737.8	725.5	715.7	710.3
30°	726.8	711.8	698.1	674.2	661.9	654.5	647.9
32.5°	678.1	654.2	627.9	605.9	591.9	581.1	579.4
35°	594.5	558.6	526.4	499.5	485.7	473.9	471.2
37.5°	505.4	468.1	439.1	415.5	400.6	392.2	384.5
40°	446.3	414.3	385.7	365.7	354.2	348.3	343.5
42.5°	400.8	371.5	343.1	327.8	317.6	313.9	311.0
45°	337.9	310.6	291.0	279.4	273.5	267.3	264.3
47.5°	287.5	265.4	252.4	242.6	236.1	232.4	230.6
50°	258.9	240.8	229.3	221.7	215.9	213.0	211.5
52.5°	233.7	218.7	209.0	203.0	199.1	197.0	196.3
55°	201.2	189.9	183.7	178.5	175.6	173.7	172.9
57.5°	175.0	166.2	161.2	156.9	155.7	154.2	153.6
60°	157.7	150.9	146.7	143.7	142.8	140.9	141.2
62.5°	142.4	136.8	133.2	131.6	130.3	128.7	129.2
65°	120.4	116.3	114.4	112.9	111.4	110.4	111.1
67.5°	101.0	98.2	95.6	94.7	94.0	93.8	93.0
70°	88.4	86.1	83.7	83.2	83.2	82.4	82.2
72.5°	76.1	74.5	73.0	72.5	71.9	72.2	71.4
75°	58.9	57.5	56.9	56.3	56.2	56.2	55.6
77.5°	43.5	42.5	41.6	41.6	40.8	40.6	40.5
80°	33.0	32.6	31.9	31.9	31.5	31.6	31.2
82.5°	24.8	24.3	24.1	23.8	23.2	23.3	22.9
85°	13.3	12.7	12.6	12.0	11.6	12.0	11.6
87.5°	8.9	9.0	9.0	8.7	8.6	8.7	8.3
90°	21.4	22.6	23.3	23.6	24.1	24.4	24.8
92.5°	20.8	21.9	22.5	22.6	22.7	22.7	22.8
95°	21.4	22.6	23.2	23.4	23.6	23.8	24.0
97.5°	22.2	22.3	22.4	22.6	22.7	22.9	23.2
100°	27.0	23.9	22.4	22.6	22.7	22.9	23.2
102.5°	74.1	40.4	23.6	23.6	23.7	23.7	23.8
105°	262.7	264.3	261.9	255.3	248.7	242.1	235.5
107.5°	323.8	324.6	325.3	326.0	326.7	327.4	328.1
110°	365.4	365.7	366.2	366.8	367.3	367.9	368.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	405.7	405.6	405.9	406.7	407.3	408.1	408.7
115°	467.0	467.3	467.6	467.6	467.6	467.6	467.6
117.5°	527.8	527.7	527.7	527.6	527.5	527.4	527.3
120°	566.1	566.5	566.5	566.1	565.7	565.4	565.0
122.5°	603.3	603.6	603.5	603.2	602.8	602.4	602.0
125°	655.9	656.4	656.8	657.0	657.1	657.4	657.5
127.5°	707.1	706.9	706.9	706.7	706.5	706.4	706.3
130°	739.1	739.2	739.3	739.3	739.3	739.3	739.3
132.5°	770.1	770.3	770.3	770.1	770.0	769.9	769.7
135°	813.1	813.5	813.8	814.2	814.6	815.0	815.3
137.5°	854.2	854.6	854.8	854.6	854.5	854.4	854.3
140°	879.7	880.3	880.7	880.8	881.0	881.2	881.4
142.5°	903.1	903.5	903.7	903.8	903.8	903.8	903.8
145°	936.5	936.6	936.9	937.3	937.7	938.0	938.4
147.5°	965.9	966.0	966.2	966.5	966.6	966.8	966.9
150°	984.6	984.6	984.7	984.9	985.1	985.3	985.5
152.5°	1001.4	1001.7	1001.8	1001.7	1001.5	1001.4	1001.4
155°	1024.0	1024.7	1024.8	1024.3	1023.8	1023.2	1022.6
157.5°	1043.3	1044.3	1044.3	1043.3	1042.4	1041.5	1040.5
160°	1055.6	1056.8	1056.8	1055.6	1054.6	1053.4	1052.4
162.5°	1065.6	1066.7	1066.7	1065.4	1064.1	1062.9	1061.6
165°	1079.9	1081.4	1081.2	1079.6	1078.0	1076.4	1074.6
167.5°	1090.3	1091.8	1091.8	1090.0	1088.1	1086.3	1084.4
170°	1096.4	1097.9	1097.7	1095.8	1094.1	1092.2	1090.4
172.5°	1100.4	1101.9	1101.6	1099.6	1097.6	1095.7	1093.6
175°	1105.2	1106.9	1106.6	1104.4	1102.2	1100.0	1097.8
177.5°	1106.6	1107.8	1107.5	1105.7	1104.0	1102.2	1100.5
180°	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4

(END OF REPORT)