

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: P332716-935

Luminaire Tested: **S124DIW-S350D470U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332716-935
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: S124DIW-S350D470U935-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 470 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2758.3 lumens
Efficiency: N/A
Efficacy: 119.9 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: General Diffuse

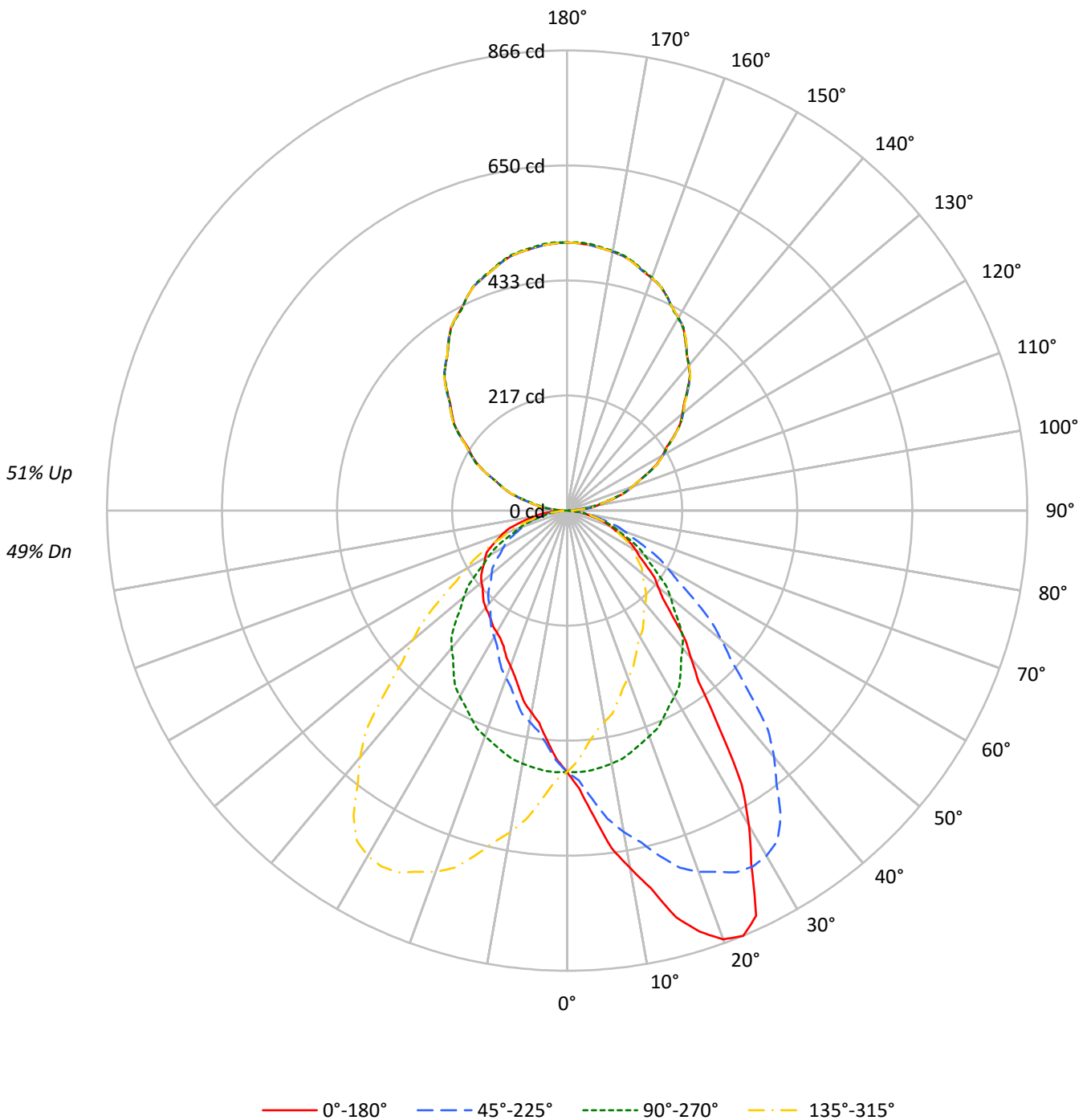
Input Watts (W): 23
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49
1	98	94	90	86	90	86	83	80	73	71	68	61	59	58	49	48	47	42
2	89	82	76	71	82	76	71	66	64	60	57	54	51	48	44	42	40	35
3	82	72	65	59	75	67	61	56	57	52	48	48	44	41	39	36	34	30
4	75	64	56	50	69	59	53	47	51	45	41	42	39	35	35	32	30	26
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	32	29	26	23
6	63	51	43	38	58	48	41	35	41	35	31	35	30	27	29	26	23	20
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18
8	54	42	34	29	50	39	32	28	34	28	25	29	25	21	24	21	18	16
9	51	38	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	15
10	47	35	28	23	44	33	27	22	29	23	20	25	20	17	21	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3971	3971	3971	3971
5°	4676	3981	3514	3981
10°	5599	3963	3163	3963
15°	6624	3924	2906	3924
20°	7377	3882	2674	3882
25°	7496	3822	2515	3822
30°	6378	3765	2466	3765
35°	4904	3671	2466	3671
40°	3822	3561	2512	3561
45°	3186	3394	2555	3394
50°	2804	3191	2641	3191
55°	2570	2949	2747	2949
60°	2407	2730	2876	2730
65°	2243	2487	2982	2487
70°	2049	2245	3050	2245
75°	1831	1978	3013	1978
80°	1534	1623	2920	1623
85°	1130	1176	2788	1176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.9	1.7
10°-20°	147.7	5.4
20°-30°	234.2	8.5
30°-40°	260.7	9.5
40°-50°	237.3	8.6
50°-60°	193.9	7.0
60°-70°	138.4	5.0
70°-80°	76.2	2.8
80°-90°	22.3	0.8
90°-100°	33.3	1.2
100°-110°	98.6	3.6
110°-120°	167.3	6.1
120°-130°	220.6	8.0
130°-140°	247.7	9.0
140°-150°	243.4	8.8
150°-160°	204.8	7.4
160°-170°	136.2	4.9
170°-180°	47.7	1.7
0°-30°	429.9	15.6
0°-40°	690.5	25.0
0°-60°	1121.7	40.7
0°-90°	1358.7	49.3
90°-120°	299.1	10.8
90°-150°	1010.9	36.6
90°-180°	1400.0	50.8
0°-180°	2758.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	492	492	492	492	492	
5°	577	491	434	491	577	59
15°	793	470	348	470	793	224
25°	842	429	282	429	842	371
35°	498	372	250	372	498	316
45°	279	297	224	297	279	220
55°	183	210	195	210	183	165
65°	117	130	156	130	117	116
75°	59	63	97	63	59	62
85°	12	13	30	13	12	15
90°	12	1	12	1	12	6
95°	31	23	31	23	31	32
105°	95	91	95	91	95	100
115°	169	170	169	170	169	167
125°	246	248	246	248	246	219
135°	320	320	320	320	320	247
145°	389	388	389	388	389	243
155°	444	445	444	445	444	205
165°	483	484	483	484	483	136
175°	501	504	501	504	501	48
180°	504	504	504	504	504	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	523.5	523.4	521.8	521.4	520.3	518.8	518.5	515.8	510.7	508.2	507.6
5°	577.0	581.2	575.8	574.8	574.2	567.5	564.0	560.0	550.6	545.1	540.8
7.5°	641.0	641.4	639.1	637.3	632.1	626.2	617.4	608.0	596.8	585.3	576.5
10°	683.0	684.7	682.0	681.7	671.2	664.7	651.7	640.7	628.0	614.0	601.2
12.5°	727.4	725.1	723.8	715.1	713.1	701.2	686.0	674.8	655.2	639.0	622.0
15°	792.6	788.2	785.3	773.4	767.4	750.9	734.8	722.4	696.9	672.6	654.3
17.5°	831.0	835.4	828.9	823.9	808.7	797.0	780.6	754.5	734.6	704.5	681.3
20°	858.7	859.1	855.4	850.3	838.4	823.6	805.7	777.2	753.4	723.4	691.6
22.5°	866.2	866.3	864.7	860.0	850.8	839.0	820.9	797.0	768.2	735.6	703.8
25°	841.5	840.8	842.6	847.9	844.5	840.8	830.3	812.6	785.7	751.3	717.0
27.5°	750.1	755.8	766.1	779.1	791.7	801.2	803.9	800.3	783.7	755.4	719.5
30°	684.2	691.2	699.0	712.0	737.3	751.7	767.6	779.6	772.9	750.3	716.9
32.5°	611.9	613.6	625.1	639.9	663.1	690.9	716.1	740.5	748.6	736.8	708.9
35°	497.6	500.5	512.9	527.5	555.9	590.0	627.8	661.7	689.6	700.8	686.5
37.5°	406.0	414.2	423.0	438.8	463.7	494.4	533.7	577.6	619.1	647.0	651.8
40°	362.7	367.8	374.1	386.2	407.3	437.5	471.3	521.4	565.7	605.6	618.6
42.5°	328.5	331.5	335.4	346.2	362.3	392.4	423.3	467.4	511.7	559.5	581.3
45°	279.1	282.2	288.8	295.1	307.3	328.0	356.8	393.0	437.7	483.7	524.1
47.5°	243.6	245.5	249.3	256.1	266.6	280.3	303.6	333.9	375.2	420.0	463.0
50°	223.3	225.0	228.0	234.1	242.1	254.3	273.5	301.8	334.2	379.2	421.4
52.5°	207.3	208.0	210.3	214.4	220.8	231.0	246.8	270.2	300.3	340.4	382.5
55°	182.6	183.4	185.5	188.5	194.0	200.5	212.5	230.1	256.3	291.2	327.7
57.5°	162.2	162.8	164.5	165.7	170.2	175.5	184.8	197.3	217.1	246.8	279.3
60°	149.1	148.8	150.8	151.8	154.9	159.4	166.5	178.5	195.8	219.6	249.6
62.5°	136.5	135.9	137.6	139.0	140.7	144.5	150.3	159.7	173.8	195.4	221.3
65°	117.4	116.6	117.6	119.2	120.8	122.9	127.2	135.5	146.7	162.2	181.9
67.5°	98.2	99.1	99.3	100.0	101.0	103.8	106.7	112.6	120.5	132.9	149.6
70°	86.8	87.0	87.8	87.8	88.4	90.9	93.3	96.8	104.5	116.0	129.6
72.5°	75.4	76.3	75.9	76.5	77.1	78.7	80.4	83.8	90.3	98.8	110.4
75°	58.7	59.3	59.3	59.5	60.1	60.7	62.2	64.6	69.3	75.6	83.5
77.5°	42.8	42.9	43.1	43.9	43.9	44.9	45.9	47.9	50.2	54.5	59.4
80°	33.0	33.4	33.2	33.7	33.7	34.4	34.9	37.3	38.3	41.2	45.0
82.5°	24.2	24.6	24.5	25.1	25.5	25.7	26.2	27.2	28.2	30.7	32.3
85°	12.2	12.7	12.2	12.7	13.3	13.4	14.0	14.3	15.1	15.7	17.1
87.5°	5.9	6.4	6.4	6.5	6.8	6.9	6.9	6.6	7.2	7.2	7.7
90°	11.7	11.5	11.4	11.2	11.0	10.7	10.2	9.6	9.1	8.6	7.9
92.5°	17.3	17.2	17.1	17.0	16.9	16.7	16.4	16.1	15.8	15.4	15.0
95°	30.8	30.8	30.8	30.8	30.8	30.7	30.4	30.1	29.9	29.6	29.0
97.5°	48.3	48.3	48.3	48.3	48.3	48.1	47.9	47.5	47.2	46.9	46.1
100°	60.4	60.4	60.4	60.4	60.4	60.4	60.2	60.0	59.8	59.7	58.9
102.5°	74.2	74.1	74.0	74.0	74.0	73.8	73.5	73.3	73.0	72.8	72.1
105°	95.2	95.0	94.7	94.5	94.2	93.9	93.7	93.4	93.1	92.8	92.5
107.5°	115.6	115.6	115.7	115.7	115.7	115.6	115.4	115.1	114.9	114.6	114.6
110°	130.3	130.0	129.8	129.5	129.2	129.2	129.4	129.6	129.8	129.9	130.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	145.3	145.3	145.2	145.2	145.1	145.1	145.1	145.2	145.2	145.3	145.3
115°	168.6	168.7	168.8	168.8	168.9	169.0	169.1	169.2	169.3	169.4	169.5
117.5°	190.7	190.9	191.1	191.2	191.4	191.7	191.9	192.3	192.5	192.8	193.0
120°	207.6	207.4	207.2	207.1	206.9	207.0	207.4	207.8	208.3	208.7	209.0
122.5°	221.6	221.9	222.2	222.6	222.8	223.2	223.4	223.8	224.0	224.4	224.5
125°	245.8	246.0	246.2	246.3	246.5	246.7	246.8	247.0	247.2	247.4	247.5
127.5°	268.2	268.4	268.5	268.6	268.7	268.9	269.1	269.2	269.4	269.6	269.8
130°	282.8	283.2	283.5	283.9	284.2	284.5	284.6	284.8	285.0	285.2	285.2
132.5°	298.5	298.6	298.8	298.9	299.0	299.2	299.4	299.5	299.7	299.9	300.0
135°	319.9	320.2	320.5	320.7	321.0	321.2	321.3	321.5	321.7	321.8	321.8
137.5°	342.5	342.4	342.3	342.3	342.2	342.3	342.6	342.8	343.0	343.3	343.1
140°	356.2	356.3	356.4	356.5	356.5	356.6	356.7	356.8	356.9	357.0	357.0
142.5°	370.0	370.0	370.0	370.0	370.0	370.1	370.1	370.1	370.1	370.1	370.1
145°	388.6	388.8	389.1	389.3	389.6	389.8	389.9	389.9	390.0	390.1	390.0
147.5°	407.5	407.6	407.7	407.8	407.9	407.9	407.9	408.0	408.1	408.2	408.3
150°	419.0	419.1	419.2	419.3	419.4	419.4	419.4	419.4	419.4	419.4	419.4
152.5°	429.6	429.9	430.1	430.3	430.5	430.6	430.3	430.2	429.9	429.7	429.6
155°	444.4	444.7	445.1	445.4	445.7	445.7	445.4	445.1	444.7	444.4	444.4
157.5°	457.5	457.9	458.1	458.5	458.7	458.7	458.5	458.2	458.0	457.7	457.7
160°	465.0	465.5	466.0	466.4	466.8	466.9	466.7	466.4	466.1	465.9	466.0
162.5°	472.9	473.3	473.7	474.2	474.6	474.6	474.2	473.6	473.2	472.7	472.8
165°	483.0	483.4	483.7	484.1	484.4	484.3	483.8	483.3	482.8	482.2	482.4
167.5°	490.3	490.8	491.4	491.9	492.4	492.4	491.9	491.4	490.9	490.3	490.3
170°	494.3	494.9	495.5	496.1	496.7	496.8	496.3	495.8	495.2	494.7	494.6
172.5°	497.7	498.3	498.9	499.6	500.2	500.2	499.6	499.0	498.4	497.8	497.8
175°	501.4	502.0	502.6	503.2	503.8	503.8	503.2	502.6	502.0	501.4	501.4
177.5°	503.3	503.8	504.4	504.9	505.4	505.5	505.0	504.5	504.0	503.5	503.5
180°	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	507.7	505.4	503.8	502.5	498.9	496.8	495.2	492.9	490.3	487.5	484.1
5°	536.5	529.6	524.5	516.8	509.5	503.3	497.0	491.3	484.4	476.8	471.3
7.5°	566.8	556.5	543.3	531.8	518.9	507.7	497.7	487.5	476.8	466.4	456.9
10°	586.1	572.8	558.1	540.8	524.5	510.1	496.6	483.5	470.9	458.3	447.5
12.5°	606.7	590.2	568.5	548.3	530.0	510.7	494.5	478.5	463.2	450.0	437.4
15°	634.6	610.7	585.7	558.5	534.5	511.9	489.7	469.5	452.4	434.8	422.6
17.5°	651.6	622.1	593.5	565.2	536.1	507.5	483.5	460.3	438.9	421.5	406.0
20°	662.9	633.5	597.9	569.6	534.9	505.6	477.9	451.9	429.6	411.0	395.1
22.5°	672.6	638.8	603.0	565.8	531.3	500.2	469.8	443.8	420.9	401.4	386.2
25°	678.0	639.0	600.3	563.2	524.1	487.2	459.7	429.1	404.7	384.1	367.8
27.5°	678.6	636.9	593.1	551.9	511.5	477.2	442.5	415.1	389.8	368.0	352.3
30°	676.7	633.4	586.3	541.7	501.1	463.8	433.6	403.9	378.0	356.4	340.1
32.5°	671.0	625.9	577.5	530.2	488.2	451.7	420.6	392.3	367.0	345.8	328.6
35°	654.5	609.8	558.4	509.2	466.2	429.4	401.2	372.5	347.2	327.1	310.6
37.5°	628.7	588.4	536.0	485.2	442.9	405.9	378.0	352.1	329.2	308.8	291.9
40°	606.2	570.8	518.1	468.6	423.0	387.8	361.7	337.9	315.2	295.8	279.7
42.5°	580.3	549.4	500.9	448.5	404.4	369.0	343.6	322.2	300.9	283.0	266.9
45°	534.1	513.7	468.0	419.6	373.7	340.3	316.1	297.3	279.4	261.8	248.4
47.5°	481.0	470.8	432.4	386.3	342.9	309.9	288.9	271.6	255.8	241.0	229.1
50°	445.2	440.3	407.2	362.7	321.2	290.2	269.0	254.1	240.6	227.6	216.4
52.5°	410.0	409.8	379.9	339.2	300.7	271.0	249.9	236.0	224.4	213.8	203.7
55°	356.2	361.9	338.5	302.2	267.8	240.8	221.9	209.5	201.3	192.6	185.0
57.5°	306.8	316.2	296.9	264.9	236.2	211.5	194.9	185.6	176.9	171.6	166.1
60°	274.5	283.4	268.4	241.5	214.4	193.2	177.5	169.1	161.6	157.9	154.0
62.5°	245.8	253.7	242.6	217.7	194.2	173.7	160.5	152.5	147.4	143.4	140.9
65°	204.8	211.5	201.9	183.8	163.6	147.3	136.6	130.2	125.4	123.7	120.8
67.5°	165.6	171.7	166.5	151.1	134.9	122.5	114.1	108.1	105.1	103.8	101.7
70°	142.2	148.4	142.8	129.4	116.9	106.6	98.6	95.1	92.1	91.5	88.7
72.5°	122.5	126.7	121.1	110.6	100.0	91.3	85.1	81.5	79.9	78.8	77.2
75°	91.9	95.6	91.9	83.8	76.2	70.1	64.8	63.4	61.6	61.0	59.9
77.5°	65.0	68.2	65.4	60.4	54.7	49.9	47.1	45.3	44.9	43.8	44.3
80°	49.7	51.7	49.1	45.6	41.2	37.9	35.9	34.9	33.7	33.2	34.0
82.5°	35.7	36.6	35.2	32.9	29.6	27.5	26.1	24.9	24.6	24.7	24.7
85°	18.5	18.3	18.2	16.1	15.1	13.7	12.8	12.7	12.4	12.8	13.3
87.5°	7.7	7.7	7.3	6.5	5.9	5.2	4.8	4.5	4.8	5.2	5.5
90°	7.2	6.5	5.8	5.0	4.0	3.1	2.2	1.2	2.2	3.1	4.0
92.5°	14.5	14.0	13.5	12.7	11.6	10.5	9.5	8.4	9.5	10.5	11.6
95°	28.4	27.8	27.2	26.5	25.7	25.0	24.2	23.4	24.2	25.0	25.7
97.5°	45.5	44.8	44.1	43.4	42.8	42.1	41.5	40.9	41.5	42.1	42.8
100°	58.1	57.3	56.6	56.1	55.6	55.3	54.9	54.6	54.9	55.3	55.6
102.5°	71.4	70.7	70.0	69.6	69.4	69.2	69.1	69.0	69.1	69.2	69.4
105°	92.1	91.8	91.4	91.3	91.2	91.1	91.0	90.9	91.0	91.1	91.2
107.5°	114.5	114.5	114.4	114.3	114.3	114.2	114.0	113.9	114.0	114.2	114.3
110°	130.1	130.2	130.3	130.2	130.0	129.8	129.7	129.5	129.7	129.8	130.0



TEST NUMBER: P332716-935

CATALOG NUMBER: S124DIW-S350D470U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	145.5	145.7	145.9	145.9	145.9	145.9	145.8	145.8	145.8	145.9	145.9
115°	169.7	169.9	170.0	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.1
117.5°	193.0	193.2	193.3	193.3	193.3	193.2	193.1	193.0	193.1	193.2	193.3
120°	209.2	209.5	209.7	209.7	209.4	209.1	208.7	208.4	208.7	209.1	209.4
122.5°	224.5	224.7	224.8	224.8	224.6	224.5	224.4	224.3	224.4	224.5	224.6
125°	247.5	247.6	247.7	247.7	247.7	247.7	247.7	247.7	247.7	247.7	247.7
127.5°	269.8	270.0	270.2	270.1	269.8	269.6	269.3	269.1	269.3	269.6	269.8
130°	285.2	285.2	285.2	285.1	284.8	284.6	284.3	284.0	284.3	284.6	284.8
132.5°	300.0	300.1	300.1	300.1	299.9	299.7	299.5	299.3	299.5	299.7	299.9
135°	321.8	321.8	321.8	321.6	321.1	320.6	320.0	319.5	320.0	320.6	321.1
137.5°	343.0	342.9	342.7	342.5	342.2	342.0	341.8	341.6	341.8	342.0	342.2
140°	357.0	357.0	357.0	356.9	356.7	356.5	356.4	356.2	356.4	356.5	356.7
142.5°	370.2	370.3	370.4	370.3	370.1	370.0	369.8	369.6	369.8	370.0	370.1
145°	389.9	389.9	389.8	389.6	389.3	388.9	388.6	388.2	388.6	388.9	389.3
147.5°	408.3	408.4	408.5	408.3	407.9	407.4	407.0	406.7	407.0	407.4	407.9
150°	419.4	419.4	419.4	419.2	418.9	418.5	418.2	417.8	418.2	418.5	418.9
152.5°	429.6	429.5	429.5	429.3	429.1	428.9	428.7	428.4	428.7	428.9	429.1
155°	444.5	444.6	444.7	444.8	444.8	444.8	444.8	444.8	444.8	444.8	444.8
157.5°	457.8	457.8	457.8	457.9	458.1	458.2	458.3	458.5	458.3	458.2	458.1
160°	466.1	466.1	466.2	466.3	466.4	466.5	466.6	466.7	466.6	466.5	466.4
162.5°	472.9	472.9	473.0	473.2	473.5	473.6	473.9	474.2	473.9	473.6	473.5
165°	482.6	482.8	482.9	483.1	483.4	483.6	483.9	484.1	483.9	483.6	483.4
167.5°	490.3	490.3	490.3	490.4	490.9	491.2	491.5	491.9	491.5	491.2	490.9
170°	494.6	494.5	494.4	494.6	495.0	495.4	495.8	496.3	495.8	495.4	495.0
172.5°	497.8	497.7	497.7	497.9	498.3	498.7	499.0	499.4	499.0	498.7	498.3
175°	501.5	501.6	501.7	502.0	502.4	502.8	503.3	503.7	503.3	502.8	502.4
177.5°	503.5	503.5	503.5	503.7	504.0	504.4	504.7	505.1	504.7	504.4	504.0
180°	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5



TEST NUMBER: P332716-935

CATALOG NUMBER: S124DIW-S350D470U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	482.4	481.0	478.9	476.0	473.5	470.9	470.2	469.2	471.2	469.6	469.1
5°	466.7	462.4	456.8	450.6	446.9	441.6	440.6	438.5	436.4	436.3	434.2
7.5°	449.9	443.6	436.4	430.0	424.0	418.2	414.4	413.6	410.6	408.8	406.8
10°	439.1	431.4	423.0	416.9	410.0	403.9	399.6	397.2	395.1	392.9	390.8
12.5°	426.5	418.2	411.3	404.7	396.5	391.8	384.8	380.6	380.1	380.1	374.9
15°	411.6	403.5	392.9	383.5	379.0	370.1	366.2	361.3	358.3	355.2	352.8
17.5°	394.7	384.5	376.3	365.5	357.0	349.8	344.7	341.8	337.2	332.9	329.8
20°	384.1	373.3	364.5	353.1	343.8	335.0	330.7	326.7	323.2	319.5	316.1
22.5°	373.3	362.1	351.4	340.3	331.6	322.3	318.1	312.6	309.4	307.3	303.8
25°	356.4	344.1	331.9	321.3	312.4	304.2	298.8	294.5	290.8	289.1	286.9
27.5°	337.9	325.8	314.0	302.0	291.8	285.9	281.5	278.3	276.1	274.0	272.9
30°	326.2	313.6	301.0	289.7	280.4	274.5	270.4	268.2	266.6	265.5	264.5
32.5°	314.4	301.9	288.6	278.4	269.9	264.7	261.6	259.3	258.6	258.2	257.8
35°	295.2	282.7	270.4	261.2	253.3	251.2	248.6	247.4	246.9	248.4	249.0
37.5°	276.8	265.1	253.8	245.0	239.7	236.8	235.8	235.9	237.4	238.6	240.0
40°	264.9	253.5	242.9	235.1	230.2	228.4	228.0	229.0	230.7	232.1	233.8
42.5°	253.3	242.1	232.5	225.2	221.8	220.1	220.3	221.4	223.7	225.4	227.8
45°	235.4	226.0	216.6	210.7	207.8	208.3	208.3	210.1	212.3	215.0	217.7
47.5°	218.4	209.0	201.3	196.3	194.8	194.5	195.6	198.0	201.2	204.5	208.2
50°	207.1	198.0	191.3	186.8	185.2	185.8	187.4	189.7	193.6	197.7	201.6
52.5°	195.4	187.3	181.1	176.9	175.7	176.8	178.5	182.0	185.5	189.9	194.5
55°	177.5	170.6	165.7	162.6	162.2	162.8	164.6	168.5	173.4	178.9	183.4
57.5°	159.6	153.8	149.3	147.2	147.4	148.0	151.0	155.6	160.8	166.7	172.5
60°	147.5	142.2	138.5	136.9	137.2	138.4	142.1	146.3	152.8	158.5	164.6
62.5°	136.1	131.5	127.9	126.5	126.2	128.9	132.4	136.8	143.4	149.7	156.4
65°	117.8	114.1	111.2	110.5	111.1	113.1	117.6	123.5	129.0	135.7	142.7
67.5°	99.9	96.9	94.9	95.2	96.0	99.0	102.7	107.8	114.1	121.1	127.9
70°	88.4	85.6	83.9	84.1	85.4	89.0	92.3	97.4	104.1	111.2	116.9
72.5°	76.7	74.8	73.4	74.2	75.4	77.9	82.1	87.1	93.1	99.7	105.7
75°	58.9	58.9	58.1	58.7	60.5	62.9	66.0	71.3	77.2	82.6	87.4
77.5°	43.7	43.2	43.7	44.5	45.5	48.5	52.0	55.8	60.2	65.5	69.6
80°	33.4	33.7	34.6	35.9	36.2	38.5	42.2	45.6	49.1	53.6	57.4
82.5°	25.1	25.3	25.8	27.4	27.8	30.2	32.5	36.0	39.2	42.2	45.4
85°	13.7	13.7	14.6	15.3	16.3	17.9	19.4	21.4	24.3	26.3	29.4
87.5°	6.2	6.4	7.1	7.7	8.3	9.2	9.6	11.5	12.3	13.3	14.7
90°	5.0	5.8	6.5	7.2	7.9	8.6	9.1	9.6	10.2	10.7	11.0
92.5°	12.7	13.5	14.0	14.5	15.0	15.4	15.8	16.1	16.4	16.7	16.9
95°	26.5	27.2	27.8	28.4	29.0	29.6	29.9	30.1	30.4	30.7	30.8
97.5°	43.4	44.1	44.8	45.5	46.1	46.9	47.2	47.5	47.9	48.1	48.3
100°	56.1	56.6	57.3	58.1	58.9	59.7	59.8	60.0	60.2	60.4	60.4
102.5°	69.6	70.0	70.7	71.4	72.1	72.8	73.0	73.3	73.5	73.8	74.0
105°	91.3	91.4	91.8	92.1	92.5	92.8	93.1	93.4	93.7	93.9	94.2
107.5°	114.3	114.4	114.5	114.5	114.6	114.6	114.9	115.1	115.4	115.6	115.7
110°	130.2	130.3	130.2	130.1	130.0	129.9	129.8	129.6	129.4	129.2	129.2



TEST NUMBER: P332716-935

CATALOG NUMBER: S124DIW-S350D470U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	145.9	145.9	145.7	145.5	145.3	145.3	145.2	145.2	145.1	145.1	145.1
115°	170.1	170.0	169.9	169.7	169.5	169.4	169.3	169.2	169.1	169.0	168.9
117.5°	193.3	193.3	193.2	193.0	193.0	192.8	192.5	192.3	191.9	191.7	191.4
120°	209.7	209.7	209.5	209.2	209.0	208.7	208.3	207.8	207.4	207.0	206.9
122.5°	224.8	224.8	224.7	224.5	224.5	224.4	224.0	223.8	223.4	223.2	222.8
125°	247.7	247.7	247.6	247.5	247.5	247.4	247.2	247.0	246.8	246.7	246.5
127.5°	270.1	270.2	270.0	269.8	269.8	269.6	269.4	269.2	269.1	268.9	268.7
130°	285.1	285.2	285.2	285.2	285.2	285.2	285.0	284.8	284.6	284.5	284.2
132.5°	300.1	300.1	300.1	300.0	300.0	299.9	299.7	299.5	299.4	299.2	299.0
135°	321.6	321.8	321.8	321.8	321.8	321.8	321.7	321.5	321.3	321.2	321.0
137.5°	342.5	342.7	342.9	343.0	343.1	343.3	343.0	342.8	342.6	342.3	342.2
140°	356.9	357.0	357.0	357.0	357.0	357.0	356.9	356.8	356.7	356.6	356.5
142.5°	370.3	370.4	370.3	370.2	370.1	370.1	370.1	370.1	370.1	370.1	370.0
145°	389.6	389.8	389.9	389.9	390.0	390.1	390.0	389.9	389.9	389.8	389.6
147.5°	408.3	408.5	408.4	408.3	408.3	408.2	408.1	408.0	407.9	407.9	407.9
150°	419.2	419.4	419.4	419.4	419.4	419.4	419.4	419.4	419.4	419.4	419.4
152.5°	429.3	429.5	429.5	429.6	429.6	429.7	429.9	430.2	430.3	430.6	430.5
155°	444.8	444.7	444.6	444.5	444.4	444.4	444.7	445.1	445.4	445.7	445.7
157.5°	457.9	457.8	457.8	457.8	457.7	457.7	458.0	458.2	458.5	458.7	458.7
160°	466.3	466.2	466.1	466.1	466.0	465.9	466.1	466.4	466.7	466.9	466.8
162.5°	473.2	473.0	472.9	472.9	472.8	472.7	473.2	473.6	474.2	474.6	474.6
165°	483.1	482.9	482.8	482.6	482.4	482.2	482.8	483.3	483.8	484.3	484.4
167.5°	490.4	490.3	490.3	490.3	490.3	490.3	490.9	491.4	491.9	492.4	492.4
170°	494.6	494.4	494.5	494.6	494.6	494.7	495.2	495.8	496.3	496.8	496.7
172.5°	497.9	497.7	497.7	497.8	497.8	497.8	498.4	499.0	499.6	500.2	500.2
175°	502.0	501.7	501.6	501.5	501.4	501.4	502.0	502.6	503.2	503.8	503.8
177.5°	503.7	503.5	503.5	503.5	503.5	503.5	504.0	504.5	505.0	505.5	505.4
180°	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5



TEST NUMBER: P332716-935

CATALOG NUMBER: S124DIW-S350D470U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	468.7	468.5	467.3	467.1	467.3	468.5	468.7	469.1	469.6	471.2	469.2
5°	433.0	432.0	431.4	433.6	431.4	432.0	433.0	434.2	436.3	436.4	438.5
7.5°	406.0	405.3	403.5	402.9	403.5	405.3	406.0	406.8	408.8	410.6	413.6
10°	388.8	388.0	386.3	385.9	386.3	388.0	388.8	390.8	392.9	395.1	397.2
12.5°	372.1	370.6	370.2	370.7	370.2	370.6	372.1	374.9	380.1	380.1	380.6
15°	350.1	349.2	347.0	347.7	347.0	349.2	350.1	352.8	355.2	358.3	361.3
17.5°	328.3	327.4	324.6	327.0	324.6	327.4	328.3	329.8	332.9	337.2	341.8
20°	314.6	313.0	311.6	311.3	311.6	313.0	314.6	316.1	319.5	323.2	326.7
22.5°	301.6	300.1	300.0	298.7	300.0	300.1	301.6	303.8	307.3	309.4	312.6
25°	285.2	283.9	283.4	282.4	283.4	283.9	285.2	286.9	289.1	290.8	294.5
27.5°	272.8	272.1	271.3	271.6	271.3	272.1	272.8	272.9	274.0	276.1	278.3
30°	265.1	264.9	264.5	264.5	264.5	264.9	265.1	264.5	265.5	266.6	268.2
32.5°	258.7	258.7	259.0	259.0	259.0	258.7	258.7	257.8	258.2	258.6	259.3
35°	249.9	250.5	250.8	250.2	250.8	250.5	249.9	249.0	248.4	246.9	247.4
37.5°	241.8	242.4	243.0	243.7	243.0	242.4	241.8	240.0	238.6	237.4	235.9
40°	235.6	236.9	237.4	238.4	237.4	236.9	235.6	233.8	232.1	230.7	229.0
42.5°	229.7	231.3	232.3	232.6	232.3	231.3	229.7	227.8	225.4	223.7	221.4
45°	220.7	222.3	223.8	223.8	223.8	222.3	220.7	217.7	215.0	212.3	210.1
47.5°	211.4	213.7	215.2	215.5	215.2	213.7	211.4	208.2	204.5	201.2	198.0
50°	205.0	207.8	209.3	210.3	209.3	207.8	205.0	201.6	197.7	193.6	189.7
52.5°	198.8	201.6	203.5	204.1	203.5	201.6	198.8	194.5	189.9	185.5	182.0
55°	188.0	192.2	194.4	195.2	194.4	192.2	188.0	183.4	178.9	173.4	168.5
57.5°	178.0	181.8	184.3	184.9	184.3	181.8	178.0	172.5	166.7	160.8	155.6
60°	170.1	174.3	177.5	178.1	177.5	174.3	170.1	164.6	158.5	152.8	146.3
62.5°	162.1	166.4	169.4	170.9	169.4	166.4	162.1	156.4	149.7	143.4	136.8
65°	148.4	152.7	155.5	156.1	155.5	152.7	148.4	142.7	135.7	129.0	123.5
67.5°	133.3	137.6	139.4	140.6	139.4	137.6	133.3	127.9	121.1	114.1	107.8
70°	122.7	126.1	128.2	129.2	128.2	126.1	122.7	116.9	111.2	104.1	97.4
72.5°	110.6	114.3	116.6	116.8	116.6	114.3	110.6	105.7	99.7	93.1	87.1
75°	92.1	95.4	96.6	96.6	96.6	95.4	92.1	87.4	82.6	77.2	71.3
77.5°	72.9	74.6	76.1	76.5	76.1	74.6	72.9	69.6	65.5	60.2	55.8
80°	60.5	61.6	62.8	62.8	62.8	61.6	60.5	57.4	53.6	49.1	45.6
82.5°	47.8	48.6	49.9	49.7	49.9	48.6	47.8	45.4	42.2	39.2	36.0
85°	28.9	30.7	30.6	30.1	30.6	30.7	28.9	29.4	26.3	24.3	21.4
87.5°	15.2	15.5	16.0	16.4	16.0	15.5	15.2	14.7	13.3	12.3	11.5
90°	11.2	11.4	11.5	11.7	11.5	11.4	11.2	11.0	10.7	10.2	9.6
92.5°	17.0	17.1	17.2	17.3	17.2	17.1	17.0	16.9	16.7	16.4	16.1
95°	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.7	30.4	30.1
97.5°	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.1	47.9	47.5
100°	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.2	60.0
102.5°	74.0	74.0	74.1	74.2	74.1	74.0	74.0	74.0	73.8	73.5	73.3
105°	94.5	94.7	95.0	95.2	95.0	94.7	94.5	94.2	93.9	93.7	93.4
107.5°	115.7	115.7	115.6	115.6	115.6	115.7	115.7	115.7	115.6	115.4	115.1
110°	129.5	129.8	130.0	130.3	130.0	129.8	129.5	129.2	129.2	129.4	129.6



TEST NUMBER: P332716-935

CATALOG NUMBER: S124DIW-S350D470U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	145.2	145.2	145.3	145.3	145.3	145.2	145.2	145.1	145.1	145.1	145.2
115°	168.8	168.8	168.7	168.6	168.7	168.8	168.8	168.9	169.0	169.1	169.2
117.5°	191.2	191.1	190.9	190.7	190.9	191.1	191.2	191.4	191.7	191.9	192.3
120°	207.1	207.2	207.4	207.6	207.4	207.2	207.1	206.9	207.0	207.4	207.8
122.5°	222.6	222.2	221.9	221.6	221.9	222.2	222.6	222.8	223.2	223.4	223.8
125°	246.3	246.2	246.0	245.8	246.0	246.2	246.3	246.5	246.7	246.8	247.0
127.5°	268.6	268.5	268.4	268.2	268.4	268.5	268.6	268.7	268.9	269.1	269.2
130°	283.9	283.5	283.2	282.8	283.2	283.5	283.9	284.2	284.5	284.6	284.8
132.5°	298.9	298.8	298.6	298.5	298.6	298.8	298.9	299.0	299.2	299.4	299.5
135°	320.7	320.5	320.2	319.9	320.2	320.5	320.7	321.0	321.2	321.3	321.5
137.5°	342.3	342.3	342.4	342.5	342.4	342.3	342.3	342.2	342.3	342.6	342.8
140°	356.5	356.4	356.3	356.2	356.3	356.4	356.5	356.5	356.6	356.7	356.8
142.5°	370.0	370.0	370.0	370.0	370.0	370.0	370.0	370.0	370.1	370.1	370.1
145°	389.3	389.1	388.8	388.6	388.8	389.1	389.3	389.6	389.8	389.9	389.9
147.5°	407.8	407.7	407.6	407.5	407.6	407.7	407.8	407.9	407.9	407.9	408.0
150°	419.3	419.2	419.1	419.0	419.1	419.2	419.3	419.4	419.4	419.4	419.4
152.5°	430.3	430.1	429.9	429.6	429.9	430.1	430.3	430.5	430.6	430.3	430.2
155°	445.4	445.1	444.7	444.4	444.7	445.1	445.4	445.7	445.7	445.4	445.1
157.5°	458.5	458.1	457.9	457.5	457.9	458.1	458.5	458.7	458.7	458.5	458.2
160°	466.4	466.0	465.5	465.0	465.5	466.0	466.4	466.8	466.9	466.7	466.4
162.5°	474.2	473.7	473.3	472.9	473.3	473.7	474.2	474.6	474.6	474.2	473.6
165°	484.1	483.7	483.4	483.0	483.4	483.7	484.1	484.4	484.3	483.8	483.3
167.5°	491.9	491.4	490.8	490.3	490.8	491.4	491.9	492.4	492.4	491.9	491.4
170°	496.1	495.5	494.9	494.3	494.9	495.5	496.1	496.7	496.8	496.3	495.8
172.5°	499.6	498.9	498.3	497.7	498.3	498.9	499.6	500.2	500.2	499.6	499.0
175°	503.2	502.6	502.0	501.4	502.0	502.6	503.2	503.8	503.8	503.2	502.6
177.5°	504.9	504.4	503.8	503.3	503.8	504.4	504.9	505.4	505.5	505.0	504.5
180°	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5



TEST NUMBER: P332716-935

CATALOG NUMBER: S124DIW-S350D470U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	470.2	470.9	473.5	476.0	478.9	481.0	482.4	484.1	487.5	490.3	492.9
5°	440.6	441.6	446.9	450.6	456.8	462.4	466.7	471.3	476.8	484.4	491.3
7.5°	414.4	418.2	424.0	430.0	436.4	443.6	449.9	456.9	466.4	476.8	487.5
10°	399.6	403.9	410.0	416.9	423.0	431.4	439.1	447.5	458.3	470.9	483.5
12.5°	384.8	391.8	396.5	404.7	411.3	418.2	426.5	437.4	450.0	463.2	478.5
15°	366.2	370.1	379.0	383.5	392.9	403.5	411.6	422.6	434.8	452.4	469.5
17.5°	344.7	349.8	357.0	365.5	376.3	384.5	394.7	406.0	421.5	438.9	460.3
20°	330.7	335.0	343.8	353.1	364.5	373.3	384.1	395.1	411.0	429.6	451.9
22.5°	318.1	322.3	331.6	340.3	351.4	362.1	373.3	386.2	401.4	420.9	443.8
25°	298.8	304.2	312.4	321.3	331.9	344.1	356.4	367.8	384.1	404.7	429.1
27.5°	281.5	285.9	291.8	302.0	314.0	325.8	337.9	352.3	368.0	389.8	415.1
30°	270.4	274.5	280.4	289.7	301.0	313.6	326.2	340.1	356.4	378.0	403.9
32.5°	261.6	264.7	269.9	278.4	288.6	301.9	314.4	328.6	345.8	367.0	392.3
35°	248.6	251.2	253.3	261.2	270.4	282.7	295.2	310.6	327.1	347.2	372.5
37.5°	235.8	236.8	239.7	245.0	253.8	265.1	276.8	291.9	308.8	329.2	352.1
40°	228.0	228.4	230.2	235.1	242.9	253.5	264.9	279.7	295.8	315.2	337.9
42.5°	220.3	220.1	221.8	225.2	232.5	242.1	253.3	266.9	283.0	300.9	322.2
45°	208.3	208.3	207.8	210.7	216.6	226.0	235.4	248.4	261.8	279.4	297.3
47.5°	195.6	194.5	194.8	196.3	201.3	209.0	218.4	229.1	241.0	255.8	271.6
50°	187.4	185.8	185.2	186.8	191.3	198.0	207.1	216.4	227.6	240.6	254.1
52.5°	178.5	176.8	175.7	176.9	181.1	187.3	195.4	203.7	213.8	224.4	236.0
55°	164.6	162.8	162.2	162.6	165.7	170.6	177.5	185.0	192.6	201.3	209.5
57.5°	151.0	148.0	147.4	147.2	149.3	153.8	159.6	166.1	171.6	176.9	185.6
60°	142.1	138.4	137.2	136.9	138.5	142.2	147.5	154.0	157.9	161.6	169.1
62.5°	132.4	128.9	126.2	126.5	127.9	131.5	136.1	140.9	143.4	147.4	152.5
65°	117.6	113.1	111.1	110.5	111.2	114.1	117.8	120.8	123.7	125.4	130.2
67.5°	102.7	99.0	96.0	95.2	94.9	96.9	99.9	101.7	103.8	105.1	108.1
70°	92.3	89.0	85.4	84.1	83.9	85.6	88.4	88.7	91.5	92.1	95.1
72.5°	82.1	77.9	75.4	74.2	73.4	74.8	76.7	77.2	78.8	79.9	81.5
75°	66.0	62.9	60.5	58.7	58.1	58.9	58.9	59.9	61.0	61.6	63.4
77.5°	52.0	48.5	45.5	44.5	43.7	43.2	43.7	44.3	43.8	44.9	45.3
80°	42.2	38.5	36.2	35.9	34.6	33.7	33.4	34.0	33.2	33.7	34.9
82.5°	32.5	30.2	27.8	27.4	25.8	25.3	25.1	24.7	24.7	24.6	24.9
85°	19.4	17.9	16.3	15.3	14.6	13.7	13.7	13.3	12.8	12.4	12.7
87.5°	9.6	9.2	8.3	7.7	7.1	6.4	6.2	5.5	5.2	4.8	4.5
90°	9.1	8.6	7.9	7.2	6.5	5.8	5.0	4.0	3.1	2.2	1.2
92.5°	15.8	15.4	15.0	14.5	14.0	13.5	12.7	11.6	10.5	9.5	8.4
95°	29.9	29.6	29.0	28.4	27.8	27.2	26.5	25.7	25.0	24.2	23.4
97.5°	47.2	46.9	46.1	45.5	44.8	44.1	43.4	42.8	42.1	41.5	40.9
100°	59.8	59.7	58.9	58.1	57.3	56.6	56.1	55.6	55.3	54.9	54.6
102.5°	73.0	72.8	72.1	71.4	70.7	70.0	69.6	69.4	69.2	69.1	69.0
105°	93.1	92.8	92.5	92.1	91.8	91.4	91.3	91.2	91.1	91.0	90.9
107.5°	114.9	114.6	114.6	114.5	114.5	114.4	114.3	114.3	114.2	114.0	113.9
110°	129.8	129.9	130.0	130.1	130.2	130.3	130.2	130.0	129.8	129.7	129.5



TEST NUMBER: P332716-935

CATALOG NUMBER: S124DIW-S350D470U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	145.2	145.3	145.3	145.5	145.7	145.9	145.9	145.9	145.9	145.8	145.8
115°	169.3	169.4	169.5	169.7	169.9	170.0	170.1	170.1	170.1	170.1	170.1
117.5°	192.5	192.8	193.0	193.0	193.2	193.3	193.3	193.3	193.2	193.1	193.0
120°	208.3	208.7	209.0	209.2	209.5	209.7	209.7	209.4	209.1	208.7	208.4
122.5°	224.0	224.4	224.5	224.5	224.7	224.8	224.8	224.6	224.5	224.4	224.3
125°	247.2	247.4	247.5	247.5	247.6	247.7	247.7	247.7	247.7	247.7	247.7
127.5°	269.4	269.6	269.8	269.8	270.0	270.2	270.1	269.8	269.6	269.3	269.1
130°	285.0	285.2	285.2	285.2	285.2	285.2	285.1	284.8	284.6	284.3	284.0
132.5°	299.7	299.9	300.0	300.0	300.1	300.1	300.1	299.9	299.7	299.5	299.3
135°	321.7	321.8	321.8	321.8	321.8	321.8	321.6	321.1	320.6	320.0	319.5
137.5°	343.0	343.3	343.1	343.0	342.9	342.7	342.5	342.2	342.0	341.8	341.6
140°	356.9	357.0	357.0	357.0	357.0	357.0	356.9	356.7	356.5	356.4	356.2
142.5°	370.1	370.1	370.1	370.2	370.3	370.4	370.3	370.1	370.0	369.8	369.6
145°	390.0	390.1	390.0	389.9	389.9	389.8	389.6	389.3	388.9	388.6	388.2
147.5°	408.1	408.2	408.3	408.3	408.4	408.5	408.3	407.9	407.4	407.0	406.7
150°	419.4	419.4	419.4	419.4	419.4	419.4	419.2	418.9	418.5	418.2	417.8
152.5°	429.9	429.7	429.6	429.6	429.5	429.5	429.3	429.1	428.9	428.7	428.4
155°	444.7	444.4	444.4	444.5	444.6	444.7	444.8	444.8	444.8	444.8	444.8
157.5°	458.0	457.7	457.7	457.8	457.8	457.8	457.9	458.1	458.2	458.3	458.5
160°	466.1	465.9	466.0	466.1	466.1	466.2	466.3	466.4	466.5	466.6	466.7
162.5°	473.2	472.7	472.8	472.9	472.9	473.0	473.2	473.5	473.6	473.9	474.2
165°	482.8	482.2	482.4	482.6	482.8	482.9	483.1	483.4	483.6	483.9	484.1
167.5°	490.9	490.3	490.3	490.3	490.3	490.3	490.4	490.9	491.2	491.5	491.9
170°	495.2	494.7	494.6	494.6	494.5	494.4	494.6	495.0	495.4	495.8	496.3
172.5°	498.4	497.8	497.8	497.8	497.7	497.7	497.9	498.3	498.7	499.0	499.4
175°	502.0	501.4	501.4	501.5	501.6	501.7	502.0	502.4	502.8	503.3	503.7
177.5°	504.0	503.5	503.5	503.5	503.5	503.5	503.7	504.0	504.4	504.7	505.1
180°	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5



TEST NUMBER: P332716-935

CATALOG NUMBER: S124DIW-S350D470U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	495.2	496.8	498.9	502.5	503.8	505.4	507.7	507.6	508.2	510.7	515.8
5°	497.0	503.3	509.5	516.8	524.5	529.6	536.5	540.8	545.1	550.6	560.0
7.5°	497.7	507.7	518.9	531.8	543.3	556.5	566.8	576.5	585.3	596.8	608.0
10°	496.6	510.1	524.5	540.8	558.1	572.8	586.1	601.2	614.0	628.0	640.7
12.5°	494.5	510.7	530.0	548.3	568.5	590.2	606.7	622.0	639.0	655.2	674.8
15°	489.7	511.9	534.5	558.5	585.7	610.7	634.6	654.3	672.6	696.9	722.4
17.5°	483.5	507.5	536.1	565.2	593.5	622.1	651.6	681.3	704.5	734.6	754.5
20°	477.9	505.6	534.9	569.6	597.9	633.5	662.9	691.6	723.4	753.4	777.2
22.5°	469.8	500.2	531.3	565.8	603.0	638.8	672.6	703.8	735.6	768.2	797.0
25°	459.7	487.2	524.1	563.2	600.3	639.0	678.0	717.0	751.3	785.7	812.6
27.5°	442.5	477.2	511.5	551.9	593.1	636.9	678.6	719.5	755.4	783.7	800.3
30°	433.6	463.8	501.1	541.7	586.3	633.4	676.7	716.9	750.3	772.9	779.6
32.5°	420.6	451.7	488.2	530.2	577.5	625.9	671.0	708.9	736.8	748.6	740.5
35°	401.2	429.4	466.2	509.2	558.4	609.8	654.5	686.5	700.8	689.6	661.7
37.5°	378.0	405.9	442.9	485.2	536.0	588.4	628.7	651.8	647.0	619.1	577.6
40°	361.7	387.8	423.0	468.6	518.1	570.8	606.2	618.6	605.6	565.7	521.4
42.5°	343.6	369.0	404.4	448.5	500.9	549.4	580.3	581.3	559.5	511.7	467.4
45°	316.1	340.3	373.7	419.6	468.0	513.7	534.1	524.1	483.7	437.7	393.0
47.5°	288.9	309.9	342.9	386.3	432.4	470.8	481.0	463.0	420.0	375.2	333.9
50°	269.0	290.2	321.2	362.7	407.2	440.3	445.2	421.4	379.2	334.2	301.8
52.5°	249.9	271.0	300.7	339.2	379.9	409.8	410.0	382.5	340.4	300.3	270.2
55°	221.9	240.8	267.8	302.2	338.5	361.9	356.2	327.7	291.2	256.3	230.1
57.5°	194.9	211.5	236.2	264.9	296.9	316.2	306.8	279.3	246.8	217.1	197.3
60°	177.5	193.2	214.4	241.5	268.4	283.4	274.5	249.6	219.6	195.8	178.5
62.5°	160.5	173.7	194.2	217.7	242.6	253.7	245.8	221.3	195.4	173.8	159.7
65°	136.6	147.3	163.6	183.8	201.9	211.5	204.8	181.9	162.2	146.7	135.5
67.5°	114.1	122.5	134.9	151.1	166.5	171.7	165.6	149.6	132.9	120.5	112.6
70°	98.6	106.6	116.9	129.4	142.8	148.4	142.2	129.6	116.0	104.5	96.8
72.5°	85.1	91.3	100.0	110.6	121.1	126.7	122.5	110.4	98.8	90.3	83.8
75°	64.8	70.1	76.2	83.8	91.9	95.6	91.9	83.5	75.6	69.3	64.6
77.5°	47.1	49.9	54.7	60.4	65.4	68.2	65.0	59.4	54.5	50.2	47.9
80°	35.9	37.9	41.2	45.6	49.1	51.7	49.7	45.0	41.2	38.3	37.3
82.5°	26.1	27.5	29.6	32.9	35.2	36.6	35.7	32.3	30.7	28.2	27.2
85°	12.8	13.7	15.1	16.1	18.2	18.3	18.5	17.1	15.7	15.1	14.3
87.5°	4.8	5.2	5.9	6.5	7.3	7.7	7.7	7.7	7.2	7.2	6.6
90°	2.2	3.1	4.0	5.0	5.8	6.5	7.2	7.9	8.6	9.1	9.6
92.5°	9.5	10.5	11.6	12.7	13.5	14.0	14.5	15.0	15.4	15.8	16.1
95°	24.2	25.0	25.7	26.5	27.2	27.8	28.4	29.0	29.6	29.9	30.1
97.5°	41.5	42.1	42.8	43.4	44.1	44.8	45.5	46.1	46.9	47.2	47.5
100°	54.9	55.3	55.6	56.1	56.6	57.3	58.1	58.9	59.7	59.8	60.0
102.5°	69.1	69.2	69.4	69.6	70.0	70.7	71.4	72.1	72.8	73.0	73.3
105°	91.0	91.1	91.2	91.3	91.4	91.8	92.1	92.5	92.8	93.1	93.4
107.5°	114.0	114.2	114.3	114.3	114.4	114.5	114.5	114.6	114.6	114.9	115.1
110°	129.7	129.8	130.0	130.2	130.3	130.2	130.1	130.0	129.9	129.8	129.6



TEST NUMBER: P332716-935

CATALOG NUMBER: S124DIW-S350D470U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	145.8	145.9	145.9	145.9	145.9	145.7	145.5	145.3	145.3	145.2	145.2
115°	170.1	170.1	170.1	170.1	170.0	169.9	169.7	169.5	169.4	169.3	169.2
117.5°	193.1	193.2	193.3	193.3	193.3	193.2	193.0	193.0	192.8	192.5	192.3
120°	208.7	209.1	209.4	209.7	209.7	209.5	209.2	209.0	208.7	208.3	207.8
122.5°	224.4	224.5	224.6	224.8	224.8	224.7	224.5	224.5	224.4	224.0	223.8
125°	247.7	247.7	247.7	247.7	247.7	247.6	247.5	247.5	247.4	247.2	247.0
127.5°	269.3	269.6	269.8	270.1	270.2	270.0	269.8	269.8	269.6	269.4	269.2
130°	284.3	284.6	284.8	285.1	285.2	285.2	285.2	285.2	285.2	285.0	284.8
132.5°	299.5	299.7	299.9	300.1	300.1	300.1	300.0	300.0	299.9	299.7	299.5
135°	320.0	320.6	321.1	321.6	321.8	321.8	321.8	321.8	321.8	321.7	321.5
137.5°	341.8	342.0	342.2	342.5	342.7	342.9	343.0	343.1	343.3	343.0	342.8
140°	356.4	356.5	356.7	356.9	357.0	357.0	357.0	357.0	357.0	356.9	356.8
142.5°	369.8	370.0	370.1	370.3	370.4	370.3	370.2	370.1	370.1	370.1	370.1
145°	388.6	388.9	389.3	389.6	389.8	389.9	389.9	390.0	390.1	390.0	389.9
147.5°	407.0	407.4	407.9	408.3	408.5	408.4	408.3	408.3	408.2	408.1	408.0
150°	418.2	418.5	418.9	419.2	419.4	419.4	419.4	419.4	419.4	419.4	419.4
152.5°	428.7	428.9	429.1	429.3	429.5	429.5	429.6	429.6	429.7	429.9	430.2
155°	444.8	444.8	444.8	444.8	444.7	444.6	444.5	444.4	444.4	444.7	445.1
157.5°	458.3	458.2	458.1	457.9	457.8	457.8	457.8	457.7	457.7	458.0	458.2
160°	466.6	466.5	466.4	466.3	466.2	466.1	466.1	466.0	465.9	466.1	466.4
162.5°	473.9	473.6	473.5	473.2	473.0	472.9	472.9	472.8	472.7	473.2	473.6
165°	483.9	483.6	483.4	483.1	482.9	482.8	482.6	482.4	482.2	482.8	483.3
167.5°	491.5	491.2	490.9	490.4	490.3	490.3	490.3	490.3	490.3	490.9	491.4
170°	495.8	495.4	495.0	494.6	494.4	494.5	494.6	494.6	494.7	495.2	495.8
172.5°	499.0	498.7	498.3	497.9	497.7	497.7	497.8	497.8	497.8	498.4	499.0
175°	503.3	502.8	502.4	502.0	501.7	501.6	501.5	501.4	501.4	502.0	502.6
177.5°	504.7	504.4	504.0	503.7	503.5	503.5	503.5	503.5	503.5	504.0	504.5
180°	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	518.5	518.8	520.3	521.4	521.8	523.4	523.5
5°	564.0	567.5	574.2	574.8	575.8	581.2	577.0
7.5°	617.4	626.2	632.1	637.3	639.1	641.4	641.0
10°	651.7	664.7	671.2	681.7	682.0	684.7	683.0
12.5°	686.0	701.2	713.1	715.1	723.8	725.1	727.4
15°	734.8	750.9	767.4	773.4	785.3	788.2	792.6
17.5°	780.6	797.0	808.7	823.9	828.9	835.4	831.0
20°	805.7	823.6	838.4	850.3	855.4	859.1	858.7
22.5°	820.9	839.0	850.8	860.0	864.7	866.3	866.2
25°	830.3	840.8	844.5	847.9	842.6	840.8	841.5
27.5°	803.9	801.2	791.7	779.1	766.1	755.8	750.1
30°	767.6	751.7	737.3	712.0	699.0	691.2	684.2
32.5°	716.1	690.9	663.1	639.9	625.1	613.6	611.9
35°	627.8	590.0	555.9	527.5	512.9	500.5	497.6
37.5°	533.7	494.4	463.7	438.8	423.0	414.2	406.0
40°	471.3	437.5	407.3	386.2	374.1	367.8	362.7
42.5°	423.3	392.4	362.3	346.2	335.4	331.5	328.5
45°	356.8	328.0	307.3	295.1	288.8	282.2	279.1
47.5°	303.6	280.3	266.6	256.1	249.3	245.5	243.6
50°	273.5	254.3	242.1	234.1	228.0	225.0	223.3
52.5°	246.8	231.0	220.8	214.4	210.3	208.0	207.3
55°	212.5	200.5	194.0	188.5	185.5	183.4	182.6
57.5°	184.8	175.5	170.2	165.7	164.5	162.8	162.2
60°	166.5	159.4	154.9	151.8	150.8	148.8	149.1
62.5°	150.3	144.5	140.7	139.0	137.6	135.9	136.5
65°	127.2	122.9	120.8	119.2	117.6	116.6	117.4
67.5°	106.7	103.8	101.0	100.0	99.3	99.1	98.2
70°	93.3	90.9	88.4	87.8	87.8	87.0	86.8
72.5°	80.4	78.7	77.1	76.5	75.9	76.3	75.4
75°	62.2	60.7	60.1	59.5	59.3	59.3	58.7
77.5°	45.9	44.9	43.9	43.9	43.1	42.9	42.8
80°	34.9	34.4	33.7	33.7	33.2	33.4	33.0
82.5°	26.2	25.7	25.5	25.1	24.5	24.6	24.2
85°	14.0	13.4	13.3	12.7	12.2	12.7	12.2
87.5°	6.9	6.9	6.8	6.5	6.4	6.4	5.9
90°	10.2	10.7	11.0	11.2	11.4	11.5	11.7
92.5°	16.4	16.7	16.9	17.0	17.1	17.2	17.3
95°	30.4	30.7	30.8	30.8	30.8	30.8	30.8
97.5°	47.9	48.1	48.3	48.3	48.3	48.3	48.3
100°	60.2	60.4	60.4	60.4	60.4	60.4	60.4
102.5°	73.5	73.8	74.0	74.0	74.0	74.1	74.2
105°	93.7	93.9	94.2	94.5	94.7	95.0	95.2
107.5°	115.4	115.6	115.7	115.7	115.7	115.6	115.6
110°	129.4	129.2	129.2	129.5	129.8	130.0	130.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	145.1	145.1	145.1	145.2	145.2	145.3	145.3
115°	169.1	169.0	168.9	168.8	168.8	168.7	168.6
117.5°	191.9	191.7	191.4	191.2	191.1	190.9	190.7
120°	207.4	207.0	206.9	207.1	207.2	207.4	207.6
122.5°	223.4	223.2	222.8	222.6	222.2	221.9	221.6
125°	246.8	246.7	246.5	246.3	246.2	246.0	245.8
127.5°	269.1	268.9	268.7	268.6	268.5	268.4	268.2
130°	284.6	284.5	284.2	283.9	283.5	283.2	282.8
132.5°	299.4	299.2	299.0	298.9	298.8	298.6	298.5
135°	321.3	321.2	321.0	320.7	320.5	320.2	319.9
137.5°	342.6	342.3	342.2	342.3	342.3	342.4	342.5
140°	356.7	356.6	356.5	356.5	356.4	356.3	356.2
142.5°	370.1	370.1	370.0	370.0	370.0	370.0	370.0
145°	389.9	389.8	389.6	389.3	389.1	388.8	388.6
147.5°	407.9	407.9	407.9	407.8	407.7	407.6	407.5
150°	419.4	419.4	419.4	419.3	419.2	419.1	419.0
152.5°	430.3	430.6	430.5	430.3	430.1	429.9	429.6
155°	445.4	445.7	445.7	445.4	445.1	444.7	444.4
157.5°	458.5	458.7	458.7	458.5	458.1	457.9	457.5
160°	466.7	466.9	466.8	466.4	466.0	465.5	465.0
162.5°	474.2	474.6	474.6	474.2	473.7	473.3	472.9
165°	483.8	484.3	484.4	484.1	483.7	483.4	483.0
167.5°	491.9	492.4	492.4	491.9	491.4	490.8	490.3
170°	496.3	496.8	496.7	496.1	495.5	494.9	494.3
172.5°	499.6	500.2	500.2	499.6	498.9	498.3	497.7
175°	503.2	503.8	503.8	503.2	502.6	502.0	501.4
177.5°	505.0	505.5	505.4	504.9	504.4	503.8	503.3
180°	504.5	504.5	504.5	504.5	504.5	504.5	504.5

(END OF REPORT)