

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: P332716-927

Luminaire Tested: **S124DIW-S350D470U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332716-927
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-S350D470U927-4F0-1E-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: 2537.8 lumens
Efficiency: N/A
Efficacy: 110.3 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

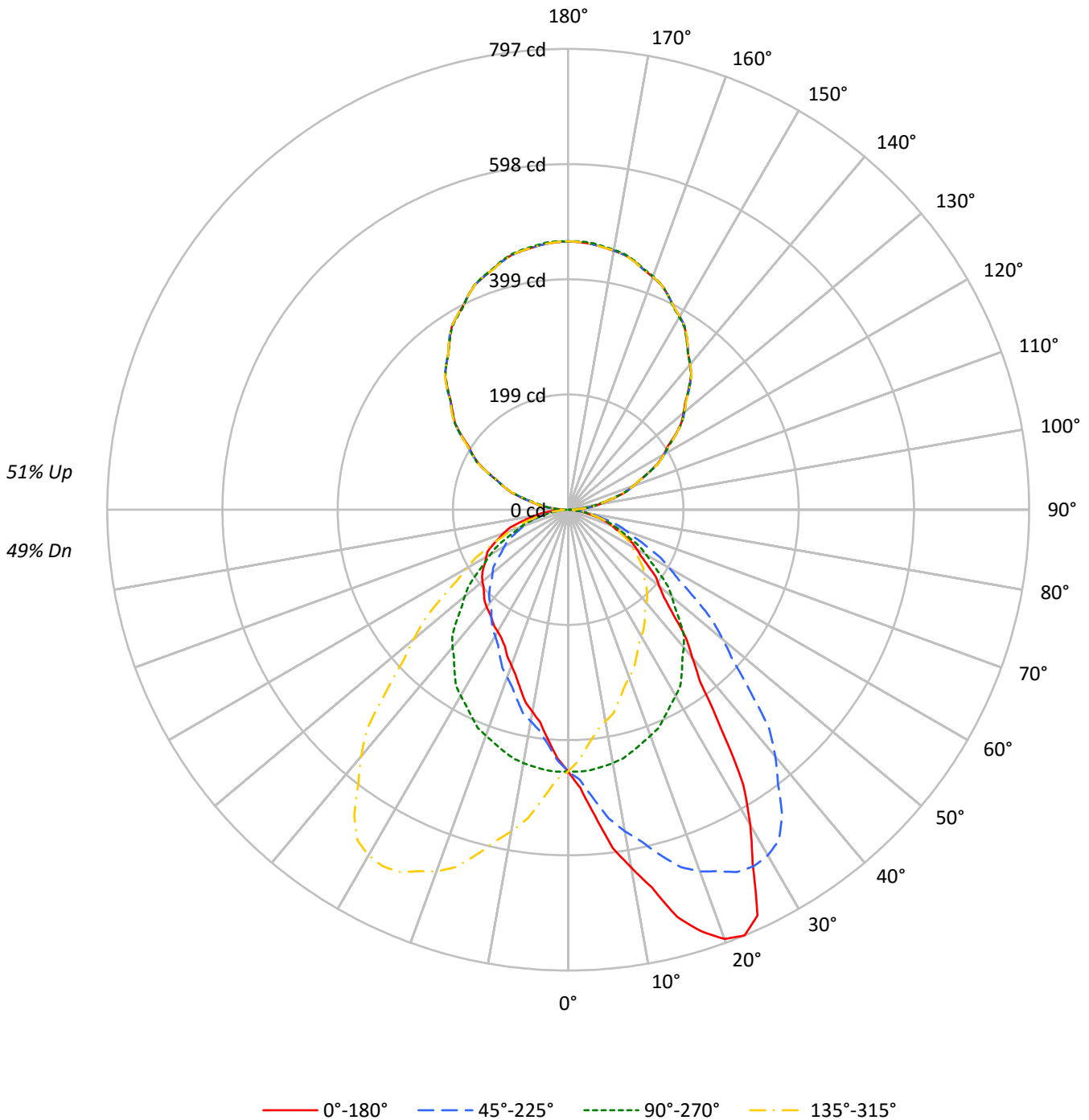
Input Watts (W): 23
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	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°	3654	3654	3654	3654
5°	4302	3663	3233	3663
10°	5151	3647	2911	3647
15°	6095	3611	2674	3611
20°	6787	3572	2461	3572
25°	6897	3517	2314	3517
30°	5868	3464	2269	3464
35°	4512	3377	2269	3377
40°	3517	3276	2312	3276
45°	2932	3123	2351	3123
50°	2581	2936	2430	2936
55°	2365	2712	2528	2712
60°	2215	2512	2645	2512
65°	2063	2288	2743	2288
70°	1886	2065	2804	2065
75°	1684	1818	2773	1818
80°	1409	1492	2687	1492
85°	1037	1074	2566	1074



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	1.7
10°-20°	135.9	5.4
20°-30°	215.5	8.5
30°-40°	239.8	9.5
40°-50°	218.3	8.6
50°-60°	178.4	7.0
60°-70°	127.4	5.0
70°-80°	70.1	2.8
80°-90°	20.5	0.8
90°-100°	30.6	1.2
100°-110°	90.7	3.6
110°-120°	153.9	6.1
120°-130°	203.0	8.0
130°-140°	227.9	9.0
140°-150°	224.0	8.8
150°-160°	188.4	7.4
160°-170°	125.3	4.9
170°-180°	43.9	1.7
0°-30°	395.5	15.6
0°-40°	635.3	25.0
0°-60°	1032.1	40.7
0°-90°	1250.1	49.3
90°-120°	275.2	10.8
90°-150°	930.1	36.6
90°-180°	1288.0	50.8
0°-180°	2537.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	453	453	453	453	453	
5°	531	452	399	452	531	54
15°	729	432	320	432	729	206
25°	774	395	260	395	774	341
35°	458	343	230	343	458	291
45°	257	274	206	274	257	202
55°	168	193	180	193	168	152
65°	108	120	144	120	108	107
75°	54	58	89	58	54	57
85°	11	12	28	12	11	14
90°	11	1	11	1	11	6
95°	28	22	28	22	28	30
105°	88	84	88	84	88	92
115°	155	156	155	156	155	153
125°	226	228	226	228	226	202
135°	294	294	294	294	294	227
145°	358	357	358	357	358	224
155°	409	409	409	409	409	188
165°	444	445	444	445	444	125
175°	461	463	461	463	461	44
180°	464	464	464	464	464	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6
2.5°	481.6	481.6	480.1	479.7	478.7	477.4	477.1	474.6	469.8	467.5	467.0
5°	530.9	534.7	529.8	528.9	528.3	522.1	519.0	515.2	506.6	501.5	497.6
7.5°	589.8	590.2	588.0	586.4	581.5	576.2	568.1	559.4	549.1	538.5	530.4
10°	628.4	629.9	627.5	627.2	617.6	611.6	599.6	589.5	577.8	564.9	553.1
12.5°	669.2	667.2	665.9	657.9	656.1	645.2	631.2	620.8	602.9	588.0	572.3
15°	729.3	725.2	722.5	711.5	706.1	690.9	676.0	664.6	641.2	618.9	602.0
17.5°	764.5	768.7	762.6	758.0	744.0	733.3	718.2	694.2	675.9	648.2	626.9
20°	790.0	790.4	787.0	782.4	771.3	757.8	741.3	715.1	693.2	665.6	636.3
22.5°	796.9	797.0	795.6	791.2	782.8	771.9	755.3	733.3	706.8	676.8	647.5
25°	774.3	773.6	775.2	780.1	777.0	773.6	764.0	747.7	722.9	691.3	659.7
27.5°	690.1	695.4	704.9	716.8	728.4	737.2	739.7	736.3	721.0	695.0	661.9
30°	629.5	636.0	643.1	655.1	678.3	691.7	706.2	717.3	711.1	690.3	659.6
32.5°	563.0	564.6	575.1	588.7	610.1	635.6	658.9	681.4	688.8	677.9	652.2
35°	457.8	460.5	471.9	485.4	511.4	542.8	577.7	608.8	634.5	644.8	631.6
37.5°	373.6	381.1	389.2	403.7	426.7	454.9	491.1	531.4	569.7	595.3	599.7
40°	333.7	338.4	344.2	355.3	374.8	402.5	433.6	479.7	520.5	557.2	569.2
42.5°	302.2	305.0	308.6	318.5	333.4	361.0	389.4	430.0	470.8	514.8	534.9
45°	256.8	259.7	265.7	271.5	282.7	301.8	328.3	361.6	402.7	445.0	482.2
47.5°	224.1	225.9	229.4	235.7	245.3	257.9	279.3	307.2	345.2	386.4	426.0
50°	205.5	207.0	209.8	215.4	222.8	234.0	251.6	277.7	307.4	348.9	387.7
52.5°	190.8	191.4	193.5	197.3	203.1	212.5	227.0	248.6	276.3	313.2	351.9
55°	168.0	168.7	170.6	173.4	178.5	184.5	195.5	211.7	235.8	267.9	301.5
57.5°	149.2	149.8	151.3	152.4	156.6	161.4	170.0	181.5	199.8	227.0	257.0
60°	137.2	136.9	138.7	139.7	142.5	146.6	153.2	164.2	180.1	202.1	229.7
62.5°	125.6	125.0	126.6	127.9	129.4	132.9	138.3	146.9	159.9	179.7	203.6
65°	108.0	107.3	108.2	109.7	111.1	113.0	117.0	124.7	135.0	149.2	167.4
67.5°	90.4	91.2	91.3	92.1	92.9	95.5	98.2	103.6	110.9	122.3	137.7
70°	79.9	80.1	80.8	80.8	81.4	83.7	85.9	89.0	96.2	106.7	119.2
72.5°	69.4	70.2	69.9	70.4	70.9	72.4	74.0	77.1	83.1	90.9	101.6
75°	54.0	54.6	54.6	54.7	55.3	55.8	57.2	59.4	63.8	69.6	76.8
77.5°	39.4	39.5	39.7	40.4	40.4	41.3	42.2	44.0	46.2	50.1	54.7
80°	30.3	30.7	30.6	31.0	31.0	31.7	32.1	34.3	35.3	37.9	41.4
82.5°	22.3	22.7	22.6	23.1	23.4	23.6	24.1	25.0	26.0	28.3	29.7
85°	11.2	11.6	11.2	11.6	12.2	12.4	12.9	13.2	13.9	14.4	15.8
87.5°	5.5	5.9	5.9	5.9	6.3	6.3	6.3	6.1	6.7	6.7	7.1
90°	10.8	10.6	10.5	10.3	10.1	9.8	9.3	8.9	8.4	7.9	7.3
92.5°	15.9	15.8	15.8	15.7	15.5	15.4	15.1	14.8	14.5	14.2	13.8
95°	28.4	28.4	28.4	28.4	28.4	28.2	28.0	27.7	27.5	27.3	26.7
97.5°	44.4	44.4	44.4	44.4	44.4	44.3	44.0	43.7	43.4	43.2	42.5
100°	55.6	55.6	55.6	55.6	55.6	55.5	55.4	55.2	55.1	54.9	54.2
102.5°	68.3	68.2	68.1	68.0	68.0	67.9	67.7	67.4	67.2	67.0	66.3
105°	87.6	87.4	87.1	86.9	86.7	86.4	86.2	86.0	85.6	85.4	85.1
107.5°	106.4	106.4	106.5	106.5	106.5	106.4	106.2	105.9	105.7	105.4	105.4
110°	119.9	119.6	119.4	119.1	118.9	118.9	119.1	119.2	119.4	119.5	119.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	133.6	133.6	133.6	133.6	133.5	133.5	133.5	133.6	133.6	133.6	133.7
115°	155.1	155.2	155.3	155.3	155.4	155.5	155.6	155.7	155.7	155.8	156.0
117.5°	175.5	175.6	175.8	175.9	176.1	176.3	176.6	176.9	177.1	177.4	177.5
120°	191.0	190.8	190.7	190.5	190.4	190.4	190.8	191.2	191.6	192.0	192.3
122.5°	203.9	204.1	204.5	204.8	205.0	205.3	205.6	205.9	206.1	206.4	206.5
125°	226.2	226.3	226.5	226.6	226.8	227.0	227.1	227.3	227.4	227.6	227.7
127.5°	246.8	246.9	247.0	247.2	247.2	247.4	247.6	247.7	247.9	248.0	248.2
130°	260.2	260.5	260.9	261.2	261.5	261.7	261.9	262.1	262.2	262.4	262.4
132.5°	274.6	274.7	274.9	275.0	275.1	275.3	275.4	275.6	275.8	275.9	276.0
135°	294.4	294.6	294.9	295.1	295.3	295.5	295.6	295.8	296.0	296.1	296.1
137.5°	315.1	315.1	315.0	315.0	314.9	315.0	315.2	315.4	315.6	315.8	315.7
140°	327.7	327.8	327.9	328.0	328.0	328.1	328.2	328.3	328.4	328.4	328.4
142.5°	340.4	340.4	340.4	340.4	340.4	340.5	340.5	340.5	340.5	340.5	340.6
145°	357.5	357.7	358.0	358.2	358.5	358.6	358.7	358.8	358.9	358.9	358.9
147.5°	374.9	375.0	375.1	375.2	375.3	375.3	375.3	375.4	375.5	375.6	375.7
150°	385.6	385.6	385.7	385.8	385.9	385.9	385.9	385.9	385.9	385.9	385.9
152.5°	395.3	395.5	395.7	395.9	396.1	396.2	395.9	395.8	395.5	395.4	395.3
155°	408.8	409.2	409.5	409.8	410.1	410.1	409.8	409.5	409.2	408.8	408.9
157.5°	421.0	421.3	421.5	421.8	422.1	422.1	421.8	421.6	421.4	421.1	421.1
160°	427.9	428.3	428.7	429.1	429.5	429.6	429.4	429.1	428.9	428.6	428.7
162.5°	435.1	435.5	435.9	436.3	436.7	436.7	436.3	435.8	435.4	434.9	435.0
165°	444.4	444.7	445.0	445.4	445.7	445.6	445.1	444.7	444.2	443.7	443.9
167.5°	451.1	451.5	452.1	452.6	453.0	453.0	452.6	452.1	451.6	451.1	451.1
170°	454.8	455.3	455.9	456.5	457.0	457.1	456.6	456.1	455.7	455.2	455.1
172.5°	458.0	458.5	459.1	459.6	460.2	460.2	459.7	459.1	458.6	458.0	458.0
175°	461.3	461.8	462.4	463.0	463.5	463.5	463.0	462.4	461.8	461.3	461.4
177.5°	463.0	463.5	464.1	464.5	465.0	465.1	464.6	464.2	463.7	463.3	463.3
180°	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6
2.5°	467.1	465.0	463.5	462.3	459.1	457.1	455.6	453.5	451.1	448.5	445.4
5°	493.6	487.3	482.6	475.5	468.7	463.1	457.2	452.0	445.7	438.7	433.6
7.5°	521.5	512.0	499.9	489.3	477.4	467.1	458.0	448.5	438.7	429.1	420.4
10°	539.2	527.0	513.5	497.6	482.6	469.3	456.9	444.9	433.2	421.7	411.7
12.5°	558.3	543.0	523.1	504.5	487.7	469.8	455.0	440.2	426.2	414.0	402.4
15°	583.8	561.9	538.8	513.9	491.8	471.0	450.5	432.0	416.2	400.1	388.8
17.5°	599.5	572.4	546.1	520.0	493.2	466.9	444.9	423.5	403.8	387.8	373.6
20°	609.9	582.9	550.1	524.0	492.2	465.2	439.7	415.8	395.2	378.2	363.5
22.5°	618.9	587.7	554.8	520.5	488.9	460.2	432.3	408.4	387.3	369.3	355.3
25°	623.8	588.0	552.3	518.2	482.2	448.3	422.9	394.8	372.3	353.4	338.4
27.5°	624.3	586.0	545.7	507.8	470.6	439.0	407.1	381.9	358.6	338.6	324.2
30°	622.7	582.7	539.4	498.4	461.1	426.7	398.9	371.6	347.8	327.9	312.9
32.5°	617.3	575.8	531.3	487.8	449.2	415.6	387.0	360.9	337.7	318.1	302.4
35°	602.2	561.1	513.7	468.5	429.0	395.1	369.2	342.7	319.5	301.0	285.7
37.5°	578.5	541.4	493.1	446.4	407.5	373.4	347.8	323.9	302.9	284.1	268.5
40°	557.8	525.1	476.7	431.2	389.2	356.8	332.8	310.9	290.0	272.2	257.4
42.5°	533.9	505.5	460.9	412.6	372.1	339.5	316.2	296.4	276.9	260.4	245.6
45°	491.4	472.6	430.6	386.0	343.8	313.1	290.8	273.5	257.1	240.9	228.5
47.5°	442.5	433.2	397.8	355.5	315.4	285.1	265.8	249.9	235.4	221.7	210.8
50°	409.6	405.1	374.6	333.7	295.5	267.0	247.5	233.8	221.4	209.5	199.1
52.5°	377.2	377.1	349.5	312.1	276.7	249.3	229.9	217.1	206.4	196.7	187.4
55°	327.7	333.0	311.4	278.1	246.4	221.6	204.1	192.7	185.2	177.2	170.2
57.5°	282.3	291.0	273.1	243.8	217.3	194.6	179.4	170.8	162.8	157.9	152.8
60°	252.5	260.8	246.9	222.2	197.3	177.8	163.3	155.6	148.7	145.3	141.7
62.5°	226.2	233.5	223.2	200.3	178.6	159.9	147.7	140.3	135.6	132.0	129.6
65°	188.5	194.6	185.8	169.1	150.5	135.5	125.6	119.8	115.3	113.8	111.1
67.5°	152.3	158.0	153.2	139.0	124.1	112.7	105.0	99.4	96.7	95.5	93.6
70°	130.9	136.5	131.4	119.1	107.6	98.1	90.7	87.5	84.8	84.2	81.6
72.5°	112.7	116.5	111.5	101.8	92.1	84.0	78.3	74.9	73.5	72.5	71.1
75°	84.5	87.9	84.5	77.1	70.1	64.5	59.7	58.3	56.6	56.1	55.1
77.5°	59.8	62.7	60.2	55.5	50.3	45.9	43.3	41.7	41.3	40.3	40.8
80°	45.7	47.6	45.2	42.0	37.9	34.9	33.0	32.1	31.0	30.6	31.3
82.5°	32.9	33.7	32.4	30.3	27.3	25.3	24.0	22.9	22.7	22.7	22.7
85°	17.0	16.9	16.7	14.8	13.9	12.6	11.8	11.6	11.4	11.8	12.2
87.5°	7.1	7.1	6.7	6.0	5.4	4.8	4.4	4.1	4.4	4.8	5.1
90°	6.7	6.0	5.3	4.6	3.7	2.9	2.0	1.1	2.0	2.9	3.7
92.5°	13.3	12.9	12.4	11.7	10.7	9.7	8.7	7.7	8.7	9.7	10.7
95°	26.1	25.6	25.0	24.4	23.7	23.0	22.3	21.5	22.3	23.0	23.7
97.5°	41.8	41.2	40.6	39.9	39.4	38.7	38.2	37.6	38.2	38.7	39.4
100°	53.5	52.8	52.0	51.6	51.2	50.9	50.5	50.2	50.5	50.9	51.2
102.5°	65.7	65.0	64.4	64.0	63.8	63.7	63.6	63.5	63.6	63.7	63.8
105°	84.8	84.4	84.1	84.0	83.9	83.8	83.7	83.7	83.7	83.8	83.9
107.5°	105.4	105.4	105.3	105.2	105.1	105.0	104.9	104.8	104.9	105.0	105.1
110°	119.7	119.8	119.9	119.8	119.6	119.5	119.3	119.1	119.3	119.5	119.6



TEST NUMBER: P332716-927

CATALOG NUMBER: S124DIW-S350D470U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	133.9	134.0	134.2	134.3	134.2	134.2	134.1	134.1	134.1	134.2	134.2
115°	156.1	156.3	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5
117.5°	177.6	177.8	177.8	177.8	177.8	177.8	177.7	177.6	177.7	177.8	177.8
120°	192.5	192.7	193.0	193.0	192.7	192.3	192.0	191.7	192.0	192.3	192.7
122.5°	206.6	206.8	206.8	206.8	206.7	206.6	206.4	206.4	206.4	206.6	206.7
125°	227.8	227.8	227.9	227.9	227.9	227.9	227.9	227.9	227.9	227.9	227.9
127.5°	248.3	248.4	248.6	248.5	248.3	248.0	247.8	247.6	247.8	248.0	248.3
130°	262.4	262.4	262.4	262.3	262.1	261.8	261.6	261.3	261.6	261.8	262.1
132.5°	276.0	276.1	276.2	276.1	275.9	275.8	275.6	275.4	275.6	275.8	275.9
135°	296.1	296.1	296.1	295.9	295.4	294.9	294.5	294.0	294.5	294.9	295.4
137.5°	315.6	315.4	315.3	315.1	314.9	314.7	314.5	314.3	314.5	314.7	314.9
140°	328.4	328.4	328.4	328.4	328.2	328.0	327.9	327.7	327.9	328.0	328.2
142.5°	340.6	340.7	340.8	340.7	340.6	340.4	340.2	340.1	340.2	340.4	340.6
145°	358.8	358.7	358.6	358.5	358.1	357.8	357.5	357.2	357.5	357.8	358.1
147.5°	375.7	375.7	375.8	375.7	375.3	374.9	374.5	374.1	374.5	374.9	375.3
150°	385.9	385.9	385.9	385.7	385.4	385.1	384.8	384.4	384.8	385.1	385.4
152.5°	395.2	395.1	395.1	395.0	394.8	394.6	394.4	394.2	394.4	394.6	394.8
155°	409.0	409.1	409.2	409.2	409.2	409.2	409.2	409.2	409.2	409.2	409.2
157.5°	421.2	421.2	421.2	421.3	421.4	421.6	421.7	421.8	421.7	421.6	421.4
160°	428.8	428.9	429.0	429.0	429.1	429.2	429.3	429.4	429.3	429.2	429.1
162.5°	435.1	435.1	435.2	435.4	435.6	435.8	436.0	436.3	436.0	435.8	435.6
165°	444.0	444.2	444.3	444.5	444.7	445.0	445.2	445.4	445.2	445.0	444.7
167.5°	451.1	451.1	451.1	451.2	451.6	451.9	452.3	452.6	452.3	451.9	451.6
170°	455.0	455.0	454.9	455.0	455.4	455.8	456.2	456.6	456.2	455.8	455.4
172.5°	458.0	458.0	458.0	458.1	458.5	458.8	459.1	459.5	459.1	458.8	458.5
175°	461.4	461.5	461.6	461.8	462.2	462.6	463.0	463.4	463.0	462.6	462.2
177.5°	463.3	463.3	463.3	463.4	463.7	464.1	464.4	464.7	464.4	464.1	463.7
180°	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1



TEST NUMBER: P332716-927

CATALOG NUMBER: S124DIW-S350D470U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6
2.5°	443.9	442.5	440.6	437.9	435.6	433.2	432.6	431.7	433.6	432.1	431.6
5°	429.4	425.4	420.3	414.5	411.1	406.3	405.4	403.5	401.6	401.4	399.5
7.5°	413.9	408.1	401.5	395.6	390.1	384.8	381.3	380.6	377.8	376.1	374.3
10°	404.0	396.9	389.2	383.6	377.2	371.6	367.7	365.4	363.5	361.5	359.6
12.5°	392.4	384.8	378.4	372.3	364.8	360.5	354.0	350.1	349.7	349.7	344.9
15°	378.7	371.2	361.5	352.8	348.7	340.5	336.9	332.4	329.6	326.8	324.6
17.5°	363.1	353.8	346.2	336.3	328.4	321.9	317.2	314.5	310.2	306.3	303.4
20°	353.4	343.5	335.4	324.9	316.3	308.2	304.3	300.6	297.4	294.0	290.8
22.5°	343.5	333.1	323.3	313.1	305.1	296.5	292.7	287.6	284.6	282.7	279.6
25°	327.9	316.6	305.4	295.6	287.4	279.9	274.9	270.9	267.5	266.0	264.0
27.5°	310.9	299.8	288.9	277.8	268.5	263.0	259.0	256.0	254.1	252.1	251.1
30°	300.2	288.5	276.9	266.6	258.0	252.5	248.8	246.8	245.3	244.3	243.4
32.5°	289.2	277.7	265.5	256.1	248.3	243.5	240.7	238.6	237.9	237.6	237.2
35°	271.6	260.1	248.8	240.3	233.1	231.2	228.7	227.6	227.2	228.5	229.1
37.5°	254.7	243.9	233.5	225.4	220.5	217.9	217.0	217.1	218.4	219.5	220.9
40°	243.8	233.2	223.5	216.3	211.8	210.2	209.8	210.7	212.2	213.6	215.1
42.5°	233.1	222.8	213.9	207.2	204.1	202.5	202.7	203.7	205.8	207.4	209.6
45°	216.6	207.9	199.3	193.8	191.2	191.6	191.6	193.3	195.4	197.8	200.3
47.5°	201.0	192.3	185.2	180.6	179.3	179.0	180.0	182.2	185.1	188.1	191.5
50°	190.5	182.2	176.0	171.9	170.4	171.0	172.5	174.5	178.1	181.9	185.4
52.5°	179.8	172.3	166.6	162.8	161.7	162.7	164.2	167.5	170.6	174.7	179.0
55°	163.3	156.9	152.4	149.6	149.2	149.8	151.5	155.0	159.5	164.6	168.7
57.5°	146.9	141.5	137.4	135.5	135.6	136.2	138.9	143.1	148.0	153.4	158.7
60°	135.7	130.9	127.5	126.0	126.2	127.3	130.7	134.6	140.6	145.8	151.5
62.5°	125.2	121.0	117.7	116.4	116.1	118.6	121.8	125.9	131.9	137.8	143.9
65°	108.4	105.0	102.3	101.6	102.2	104.1	108.2	113.6	118.7	124.8	131.3
67.5°	91.9	89.1	87.3	87.6	88.3	91.1	94.5	99.2	105.0	111.4	117.6
70°	81.4	78.7	77.2	77.4	78.6	81.9	84.9	89.6	95.8	102.3	107.6
72.5°	70.6	68.8	67.5	68.3	69.4	71.7	75.5	80.2	85.6	91.7	97.3
75°	54.2	54.2	53.5	54.0	55.7	57.9	60.8	65.6	71.1	76.0	80.4
77.5°	40.2	39.8	40.2	41.0	41.9	44.6	47.8	51.3	55.4	60.3	64.0
80°	30.7	31.0	31.8	33.0	33.4	35.4	38.8	42.0	45.2	49.3	52.8
82.5°	23.1	23.3	23.8	25.2	25.6	27.8	29.9	33.1	36.0	38.8	41.7
85°	12.6	12.6	13.5	14.1	15.0	16.5	17.8	19.7	22.3	24.2	27.0
87.5°	5.7	5.9	6.6	7.1	7.6	8.5	8.9	10.6	11.3	12.2	13.5
90°	4.6	5.3	6.0	6.7	7.3	7.9	8.4	8.9	9.3	9.8	10.1
92.5°	11.7	12.4	12.9	13.3	13.8	14.2	14.5	14.8	15.1	15.4	15.5
95°	24.4	25.0	25.6	26.1	26.7	27.3	27.5	27.7	28.0	28.2	28.4
97.5°	39.9	40.6	41.2	41.8	42.5	43.2	43.4	43.7	44.0	44.3	44.4
100°	51.6	52.0	52.8	53.5	54.2	54.9	55.1	55.2	55.4	55.5	55.6
102.5°	64.0	64.4	65.0	65.7	66.3	67.0	67.2	67.4	67.7	67.9	68.0
105°	84.0	84.1	84.4	84.8	85.1	85.4	85.6	86.0	86.2	86.4	86.7
107.5°	105.2	105.3	105.4	105.4	105.4	105.4	105.7	105.9	106.2	106.4	106.5
110°	119.8	119.9	119.8	119.7	119.6	119.5	119.4	119.2	119.1	118.9	118.9



TEST NUMBER: P332716-927

CATALOG NUMBER: S124DIW-S350D470U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	134.3	134.2	134.0	133.9	133.7	133.6	133.6	133.6	133.5	133.5	133.5
115°	156.5	156.5	156.3	156.1	156.0	155.8	155.7	155.7	155.6	155.5	155.4
117.5°	177.8	177.8	177.8	177.6	177.5	177.4	177.1	176.9	176.6	176.3	176.1
120°	193.0	193.0	192.7	192.5	192.3	192.0	191.6	191.2	190.8	190.4	190.4
122.5°	206.8	206.8	206.8	206.6	206.5	206.4	206.1	205.9	205.6	205.3	205.0
125°	227.9	227.9	227.8	227.8	227.7	227.6	227.4	227.3	227.1	227.0	226.8
127.5°	248.5	248.6	248.4	248.3	248.2	248.0	247.9	247.7	247.6	247.4	247.2
130°	262.3	262.4	262.4	262.4	262.4	262.4	262.2	262.1	261.9	261.7	261.5
132.5°	276.1	276.2	276.1	276.0	276.0	275.9	275.8	275.6	275.4	275.3	275.1
135°	295.9	296.1	296.1	296.1	296.1	296.1	296.0	295.8	295.6	295.5	295.3
137.5°	315.1	315.3	315.4	315.6	315.7	315.8	315.6	315.4	315.2	315.0	314.9
140°	328.4	328.4	328.4	328.4	328.4	328.4	328.4	328.3	328.2	328.1	328.0
142.5°	340.7	340.8	340.7	340.6	340.6	340.5	340.5	340.5	340.5	340.5	340.4
145°	358.5	358.6	358.7	358.8	358.9	358.9	358.9	358.8	358.7	358.6	358.5
147.5°	375.7	375.8	375.7	375.7	375.7	375.6	375.5	375.4	375.3	375.3	375.3
150°	385.7	385.9	385.9	385.9	385.9	385.9	385.9	385.9	385.9	385.9	385.9
152.5°	395.0	395.1	395.1	395.2	395.3	395.4	395.5	395.8	395.9	396.2	396.1
155°	409.2	409.2	409.1	409.0	408.9	408.8	409.2	409.5	409.8	410.1	410.1
157.5°	421.3	421.2	421.2	421.2	421.1	421.1	421.4	421.6	421.8	422.1	422.1
160°	429.0	429.0	428.9	428.8	428.7	428.6	428.9	429.1	429.4	429.6	429.5
162.5°	435.4	435.2	435.1	435.1	435.0	434.9	435.4	435.8	436.3	436.7	436.7
165°	444.5	444.3	444.2	444.0	443.9	443.7	444.2	444.7	445.1	445.6	445.7
167.5°	451.2	451.1	451.1	451.1	451.1	451.1	451.6	452.1	452.6	453.0	453.0
170°	455.0	454.9	455.0	455.0	455.1	455.2	455.7	456.1	456.6	457.1	457.0
172.5°	458.1	458.0	458.0	458.0	458.0	458.0	458.6	459.1	459.7	460.2	460.2
175°	461.8	461.6	461.5	461.4	461.4	461.3	461.8	462.4	463.0	463.5	463.5
177.5°	463.4	463.3	463.3	463.3	463.3	463.3	463.7	464.2	464.6	465.1	465.0
180°	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1



TEST NUMBER: P332716-927

CATALOG NUMBER: S124DIW-S350D470U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6
2.5°	431.3	431.0	429.9	429.8	429.9	431.0	431.3	431.6	432.1	433.6	431.7
5°	398.4	397.4	396.9	398.9	396.9	397.4	398.4	399.5	401.4	401.6	403.5
7.5°	373.6	372.9	371.2	370.7	371.2	372.9	373.6	374.3	376.1	377.8	380.6
10°	357.7	357.0	355.5	355.1	355.5	357.0	357.7	359.6	361.5	363.5	365.4
12.5°	342.4	341.0	340.6	341.0	340.6	341.0	342.4	344.9	349.7	349.7	350.1
15°	322.1	321.3	319.2	319.9	319.2	321.3	322.1	324.6	326.8	329.6	332.4
17.5°	302.1	301.2	298.7	300.9	298.7	301.2	302.1	303.4	306.3	310.2	314.5
20°	289.5	288.0	286.7	286.5	286.7	288.0	289.5	290.8	294.0	297.4	300.6
22.5°	277.5	276.2	276.0	274.8	276.0	276.2	277.5	279.6	282.7	284.6	287.6
25°	262.4	261.2	260.8	259.8	260.8	261.2	262.4	264.0	266.0	267.5	270.9
27.5°	251.0	250.3	249.6	249.9	249.6	250.3	251.0	251.1	252.1	254.1	256.0
30°	243.9	243.8	243.4	243.4	243.4	243.8	243.9	243.4	244.3	245.3	246.8
32.5°	238.1	238.1	238.3	238.3	238.3	238.1	238.1	237.2	237.6	237.9	238.6
35°	229.9	230.4	230.8	230.2	230.8	230.4	229.9	229.1	228.5	227.2	227.6
37.5°	222.4	223.0	223.6	224.2	223.6	223.0	222.4	220.9	219.5	218.4	217.1
40°	216.7	218.0	218.4	219.4	218.4	218.0	216.7	215.1	213.6	212.2	210.7
42.5°	211.4	212.8	213.7	214.0	213.7	212.8	211.4	209.6	207.4	205.8	203.7
45°	203.0	204.5	205.9	205.9	205.9	204.5	203.0	200.3	197.8	195.4	193.3
47.5°	194.5	196.6	198.0	198.3	198.0	196.6	194.5	191.5	188.1	185.1	182.2
50°	188.6	191.2	192.6	193.5	192.6	191.2	188.6	185.4	181.9	178.1	174.5
52.5°	182.9	185.5	187.3	187.7	187.3	185.5	182.9	179.0	174.7	170.6	167.5
55°	173.0	176.8	178.9	179.6	178.9	176.8	173.0	168.7	164.6	159.5	155.0
57.5°	163.7	167.2	169.6	170.2	169.6	167.2	163.7	158.7	153.4	148.0	143.1
60°	156.5	160.3	163.3	163.8	163.3	160.3	156.5	151.5	145.8	140.6	134.6
62.5°	149.2	153.1	155.8	157.2	155.8	153.1	149.2	143.9	137.8	131.9	125.9
65°	136.5	140.5	143.1	143.6	143.1	140.5	136.5	131.3	124.8	118.7	113.6
67.5°	122.6	126.6	128.3	129.4	128.3	126.6	122.6	117.6	111.4	105.0	99.2
70°	112.9	116.1	118.0	118.8	118.0	116.1	112.9	107.6	102.3	95.8	89.6
72.5°	101.8	105.1	107.3	107.5	107.3	105.1	101.8	97.3	91.7	85.6	80.2
75°	84.8	87.8	88.9	88.9	88.9	87.8	84.8	80.4	76.0	71.1	65.6
77.5°	67.1	68.6	70.0	70.3	70.0	68.6	67.1	64.0	60.3	55.4	51.3
80°	55.7	56.6	57.8	57.8	57.8	56.6	55.7	52.8	49.3	45.2	42.0
82.5°	44.0	44.8	45.9	45.7	45.9	44.8	44.0	41.7	38.8	36.0	33.1
85°	26.6	28.3	28.1	27.7	28.1	28.3	26.6	27.0	24.2	22.3	19.7
87.5°	14.0	14.3	14.7	15.1	14.7	14.3	14.0	13.5	12.2	11.3	10.6
90°	10.3	10.5	10.6	10.8	10.6	10.5	10.3	10.1	9.8	9.3	8.9
92.5°	15.7	15.8	15.8	15.9	15.8	15.8	15.7	15.5	15.4	15.1	14.8
95°	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.2	28.0	27.7
97.5°	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.3	44.0	43.7
100°	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.5	55.4	55.2
102.5°	68.0	68.1	68.2	68.3	68.2	68.1	68.0	68.0	67.9	67.7	67.4
105°	86.9	87.1	87.4	87.6	87.4	87.1	86.9	86.7	86.4	86.2	86.0
107.5°	106.5	106.5	106.4	106.4	106.4	106.5	106.5	106.5	106.4	106.2	105.9
110°	119.1	119.4	119.6	119.9	119.6	119.4	119.1	118.9	118.9	119.1	119.2



TEST NUMBER: P332716-927

CATALOG NUMBER: S124DIW-S350D470U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.5	133.5	133.5	133.6
115°	155.3	155.3	155.2	155.1	155.2	155.3	155.3	155.4	155.5	155.6	155.7
117.5°	175.9	175.8	175.6	175.5	175.6	175.8	175.9	176.1	176.3	176.6	176.9
120°	190.5	190.7	190.8	191.0	190.8	190.7	190.5	190.4	190.4	190.8	191.2
122.5°	204.8	204.5	204.1	203.9	204.1	204.5	204.8	205.0	205.3	205.6	205.9
125°	226.6	226.5	226.3	226.2	226.3	226.5	226.6	226.8	227.0	227.1	227.3
127.5°	247.2	247.0	246.9	246.8	246.9	247.0	247.2	247.2	247.4	247.6	247.7
130°	261.2	260.9	260.5	260.2	260.5	260.9	261.2	261.5	261.7	261.9	262.1
132.5°	275.0	274.9	274.7	274.6	274.7	274.9	275.0	275.1	275.3	275.4	275.6
135°	295.1	294.9	294.6	294.4	294.6	294.9	295.1	295.3	295.5	295.6	295.8
137.5°	315.0	315.0	315.1	315.1	315.1	315.0	315.0	314.9	315.0	315.2	315.4
140°	328.0	327.9	327.8	327.7	327.8	327.9	328.0	328.0	328.1	328.2	328.3
142.5°	340.4	340.4	340.4	340.4	340.4	340.4	340.4	340.4	340.5	340.5	340.5
145°	358.2	358.0	357.7	357.5	357.7	358.0	358.2	358.5	358.6	358.7	358.8
147.5°	375.2	375.1	375.0	374.9	375.0	375.1	375.2	375.3	375.3	375.3	375.4
150°	385.8	385.7	385.6	385.6	385.6	385.7	385.8	385.9	385.9	385.9	385.9
152.5°	395.9	395.7	395.5	395.3	395.5	395.7	395.9	396.1	396.2	395.9	395.8
155°	409.8	409.5	409.2	408.8	409.2	409.5	409.8	410.1	410.1	409.8	409.5
157.5°	421.8	421.5	421.3	421.0	421.3	421.5	421.8	422.1	422.1	421.8	421.6
160°	429.1	428.7	428.3	427.9	428.3	428.7	429.1	429.5	429.6	429.4	429.1
162.5°	436.3	435.9	435.5	435.1	435.5	435.9	436.3	436.7	436.7	436.3	435.8
165°	445.4	445.0	444.7	444.4	444.7	445.0	445.4	445.7	445.6	445.1	444.7
167.5°	452.6	452.1	451.5	451.1	451.5	452.1	452.6	453.0	453.0	452.6	452.1
170°	456.5	455.9	455.3	454.8	455.3	455.9	456.5	457.0	457.1	456.6	456.1
172.5°	459.6	459.1	458.5	458.0	458.5	459.1	459.6	460.2	460.2	459.7	459.1
175°	463.0	462.4	461.8	461.3	461.8	462.4	463.0	463.5	463.5	463.0	462.4
177.5°	464.5	464.1	463.5	463.0	463.5	464.1	464.5	465.0	465.1	464.6	464.2
180°	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1



TEST NUMBER: P332716-927

CATALOG NUMBER: S124DIW-S350D470U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6
2.5°	432.6	433.2	435.6	437.9	440.6	442.5	443.9	445.4	448.5	451.1	453.5
5°	405.4	406.3	411.1	414.5	420.3	425.4	429.4	433.6	438.7	445.7	452.0
7.5°	381.3	384.8	390.1	395.6	401.5	408.1	413.9	420.4	429.1	438.7	448.5
10°	367.7	371.6	377.2	383.6	389.2	396.9	404.0	411.7	421.7	433.2	444.9
12.5°	354.0	360.5	364.8	372.3	378.4	384.8	392.4	402.4	414.0	426.2	440.2
15°	336.9	340.5	348.7	352.8	361.5	371.2	378.7	388.8	400.1	416.2	432.0
17.5°	317.2	321.9	328.4	336.3	346.2	353.8	363.1	373.6	387.8	403.8	423.5
20°	304.3	308.2	316.3	324.9	335.4	343.5	353.4	363.5	378.2	395.2	415.8
22.5°	292.7	296.5	305.1	313.1	323.3	333.1	343.5	355.3	369.3	387.3	408.4
25°	274.9	279.9	287.4	295.6	305.4	316.6	327.9	338.4	353.4	372.3	394.8
27.5°	259.0	263.0	268.5	277.8	288.9	299.8	310.9	324.2	338.6	358.6	381.9
30°	248.8	252.5	258.0	266.6	276.9	288.5	300.2	312.9	327.9	347.8	371.6
32.5°	240.7	243.5	248.3	256.1	265.5	277.7	289.2	302.4	318.1	337.7	360.9
35°	228.7	231.2	233.1	240.3	248.8	260.1	271.6	285.7	301.0	319.5	342.7
37.5°	217.0	217.9	220.5	225.4	233.5	243.9	254.7	268.5	284.1	302.9	323.9
40°	209.8	210.2	211.8	216.3	223.5	233.2	243.8	257.4	272.2	290.0	310.9
42.5°	202.7	202.5	204.1	207.2	213.9	222.8	233.1	245.6	260.4	276.9	296.4
45°	191.6	191.6	191.2	193.8	199.3	207.9	216.6	228.5	240.9	257.1	273.5
47.5°	180.0	179.0	179.3	180.6	185.2	192.3	201.0	210.8	221.7	235.4	249.9
50°	172.5	171.0	170.4	171.9	176.0	182.2	190.5	199.1	209.5	221.4	233.8
52.5°	164.2	162.7	161.7	162.8	166.6	172.3	179.8	187.4	196.7	206.4	217.1
55°	151.5	149.8	149.2	149.6	152.4	156.9	163.3	170.2	177.2	185.2	192.7
57.5°	138.9	136.2	135.6	135.5	137.4	141.5	146.9	152.8	157.9	162.8	170.8
60°	130.7	127.3	126.2	126.0	127.5	130.9	135.7	141.7	145.3	148.7	155.6
62.5°	121.8	118.6	116.1	116.4	117.7	121.0	125.2	129.6	132.0	135.6	140.3
65°	108.2	104.1	102.2	101.6	102.3	105.0	108.4	111.1	113.8	115.3	119.8
67.5°	94.5	91.1	88.3	87.6	87.3	89.1	91.9	93.6	95.5	96.7	99.4
70°	84.9	81.9	78.6	77.4	77.2	78.7	81.4	81.6	84.2	84.8	87.5
72.5°	75.5	71.7	69.4	68.3	67.5	68.8	70.6	71.1	72.5	73.5	74.9
75°	60.8	57.9	55.7	54.0	53.5	54.2	54.2	55.1	56.1	56.6	58.3
77.5°	47.8	44.6	41.9	41.0	40.2	39.8	40.2	40.8	40.3	41.3	41.7
80°	38.8	35.4	33.4	33.0	31.8	31.0	30.7	31.3	30.6	31.0	32.1
82.5°	29.9	27.8	25.6	25.2	23.8	23.3	23.1	22.7	22.7	22.7	22.9
85°	17.8	16.5	15.0	14.1	13.5	12.6	12.6	12.2	11.8	11.4	11.6
87.5°	8.9	8.5	7.6	7.1	6.6	5.9	5.7	5.1	4.8	4.4	4.1
90°	8.4	7.9	7.3	6.7	6.0	5.3	4.6	3.7	2.9	2.0	1.1
92.5°	14.5	14.2	13.8	13.3	12.9	12.4	11.7	10.7	9.7	8.7	7.7
95°	27.5	27.3	26.7	26.1	25.6	25.0	24.4	23.7	23.0	22.3	21.5
97.5°	43.4	43.2	42.5	41.8	41.2	40.6	39.9	39.4	38.7	38.2	37.6
100°	55.1	54.9	54.2	53.5	52.8	52.0	51.6	51.2	50.9	50.5	50.2
102.5°	67.2	67.0	66.3	65.7	65.0	64.4	64.0	63.8	63.7	63.6	63.5
105°	85.6	85.4	85.1	84.8	84.4	84.1	84.0	83.9	83.8	83.7	83.7
107.5°	105.7	105.4	105.4	105.4	105.4	105.3	105.2	105.1	105.0	104.9	104.8
110°	119.4	119.5	119.6	119.7	119.8	119.9	119.8	119.6	119.5	119.3	119.1



TEST NUMBER: P332716-927

CATALOG NUMBER: S124DIW-S350D470U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	133.6	133.6	133.7	133.9	134.0	134.2	134.3	134.2	134.2	134.1	134.1
115°	155.7	155.8	156.0	156.1	156.3	156.5	156.5	156.5	156.5	156.5	156.5
117.5°	177.1	177.4	177.5	177.6	177.8	177.8	177.8	177.8	177.8	177.7	177.6
120°	191.6	192.0	192.3	192.5	192.7	193.0	193.0	192.7	192.3	192.0	191.7
122.5°	206.1	206.4	206.5	206.6	206.8	206.8	206.8	206.7	206.6	206.4	206.4
125°	227.4	227.6	227.7	227.8	227.8	227.9	227.9	227.9	227.9	227.9	227.9
127.5°	247.9	248.0	248.2	248.3	248.4	248.6	248.5	248.3	248.0	247.8	247.6
130°	262.2	262.4	262.4	262.4	262.4	262.4	262.3	262.1	261.8	261.6	261.3
132.5°	275.8	275.9	276.0	276.0	276.1	276.2	276.1	275.9	275.8	275.6	275.4
135°	296.0	296.1	296.1	296.1	296.1	296.1	295.9	295.4	294.9	294.5	294.0
137.5°	315.6	315.8	315.7	315.6	315.4	315.3	315.1	314.9	314.7	314.5	314.3
140°	328.4	328.4	328.4	328.4	328.4	328.4	328.4	328.2	328.0	327.9	327.7
142.5°	340.5	340.5	340.6	340.6	340.7	340.8	340.7	340.6	340.4	340.2	340.1
145°	358.9	358.9	358.9	358.8	358.7	358.6	358.5	358.1	357.8	357.5	357.2
147.5°	375.5	375.6	375.7	375.7	375.7	375.8	375.7	375.3	374.9	374.5	374.1
150°	385.9	385.9	385.9	385.9	385.9	385.9	385.7	385.4	385.1	384.8	384.4
152.5°	395.5	395.4	395.3	395.2	395.1	395.1	395.0	394.8	394.6	394.4	394.2
155°	409.2	408.8	408.9	409.0	409.1	409.2	409.2	409.2	409.2	409.2	409.2
157.5°	421.4	421.1	421.1	421.2	421.2	421.2	421.3	421.4	421.6	421.7	421.8
160°	428.9	428.6	428.7	428.8	428.9	429.0	429.0	429.1	429.2	429.3	429.4
162.5°	435.4	434.9	435.0	435.1	435.1	435.2	435.4	435.6	435.8	436.0	436.3
165°	444.2	443.7	443.9	444.0	444.2	444.3	444.5	444.7	445.0	445.2	445.4
167.5°	451.6	451.1	451.1	451.1	451.1	451.1	451.2	451.6	451.9	452.3	452.6
170°	455.7	455.2	455.1	455.0	455.0	454.9	455.0	455.4	455.8	456.2	456.6
172.5°	458.6	458.0	458.0	458.0	458.0	458.0	458.1	458.5	458.8	459.1	459.5
175°	461.8	461.3	461.4	461.4	461.5	461.6	461.8	462.2	462.6	463.0	463.4
177.5°	463.7	463.3	463.3	463.3	463.3	463.3	463.4	463.7	464.1	464.4	464.7
180°	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1



TEST NUMBER: P332716-927

CATALOG NUMBER: S124DIW-S350D470U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6
2.5°	455.6	457.1	459.1	462.3	463.5	465.0	467.1	467.0	467.5	469.8	474.6
5°	457.2	463.1	468.7	475.5	482.6	487.3	493.6	497.6	501.5	506.6	515.2
7.5°	458.0	467.1	477.4	489.3	499.9	512.0	521.5	530.4	538.5	549.1	559.4
10°	456.9	469.3	482.6	497.6	513.5	527.0	539.2	553.1	564.9	577.8	589.5
12.5°	455.0	469.8	487.7	504.5	523.1	543.0	558.3	572.3	588.0	602.9	620.8
15°	450.5	471.0	491.8	513.9	538.8	561.9	583.8	602.0	618.9	641.2	664.6
17.5°	444.9	466.9	493.2	520.0	546.1	572.4	599.5	626.9	648.2	675.9	694.2
20°	439.7	465.2	492.2	524.0	550.1	582.9	609.9	636.3	665.6	693.2	715.1
22.5°	432.3	460.2	488.9	520.5	554.8	587.7	618.9	647.5	676.8	706.8	733.3
25°	422.9	448.3	482.2	518.2	552.3	588.0	623.8	659.7	691.3	722.9	747.7
27.5°	407.1	439.0	470.6	507.8	545.7	586.0	624.3	661.9	695.0	721.0	736.3
30°	398.9	426.7	461.1	498.4	539.4	582.7	622.7	659.6	690.3	711.1	717.3
32.5°	387.0	415.6	449.2	487.8	531.3	575.8	617.3	652.2	677.9	688.8	681.4
35°	369.2	395.1	429.0	468.5	513.7	561.1	602.2	631.6	644.8	634.5	608.8
37.5°	347.8	373.4	407.5	446.4	493.1	541.4	578.5	599.7	595.3	569.7	531.4
40°	332.8	356.8	389.2	431.2	476.7	525.1	557.8	569.2	557.2	520.5	479.7
42.5°	316.2	339.5	372.1	412.6	460.9	505.5	533.9	534.9	514.8	470.8	430.0
45°	290.8	313.1	343.8	386.0	430.6	472.6	491.4	482.2	445.0	402.7	361.6
47.5°	265.8	285.1	315.4	355.5	397.8	433.2	442.5	426.0	386.4	345.2	307.2
50°	247.5	267.0	295.5	333.7	374.6	405.1	409.6	387.7	348.9	307.4	277.7
52.5°	229.9	249.3	276.7	312.1	349.5	377.1	377.2	351.9	313.2	276.3	248.6
55°	204.1	221.6	246.4	278.1	311.4	333.0	327.7	301.5	267.9	235.8	211.7
57.5°	179.4	194.6	217.3	243.8	273.1	291.0	282.3	257.0	227.0	199.8	181.5
60°	163.3	177.8	197.3	222.2	246.9	260.8	252.5	229.7	202.1	180.1	164.2
62.5°	147.7	159.9	178.6	200.3	223.2	233.5	226.2	203.6	179.7	159.9	146.9
65°	125.6	135.5	150.5	169.1	185.8	194.6	188.5	167.4	149.2	135.0	124.7
67.5°	105.0	112.7	124.1	139.0	153.2	158.0	152.3	137.7	122.3	110.9	103.6
70°	90.7	98.1	107.6	119.1	131.4	136.5	130.9	119.2	106.7	96.2	89.0
72.5°	78.3	84.0	92.1	101.8	111.5	116.5	112.7	101.6	90.9	83.1	77.1
75°	59.7	64.5	70.1	77.1	84.5	87.9	84.5	76.8	69.6	63.8	59.4
77.5°	43.3	45.9	50.3	55.5	60.2	62.7	59.8	54.7	50.1	46.2	44.0
80°	33.0	34.9	37.9	42.0	45.2	47.6	45.7	41.4	37.9	35.3	34.3
82.5°	24.0	25.3	27.3	30.3	32.4	33.7	32.9	29.7	28.3	26.0	25.0
85°	11.8	12.6	13.9	14.8	16.7	16.9	17.0	15.8	14.4	13.9	13.2
87.5°	4.4	4.8	5.4	6.0	6.7	7.1	7.1	7.1	6.7	6.7	6.1
90°	2.0	2.9	3.7	4.6	5.3	6.0	6.7	7.3	7.9	8.4	8.9
92.5°	8.7	9.7	10.7	11.7	12.4	12.9	13.3	13.8	14.2	14.5	14.8
95°	22.3	23.0	23.7	24.4	25.0	25.6	26.1	26.7	27.3	27.5	27.7
97.5°	38.2	38.7	39.4	39.9	40.6	41.2	41.8	42.5	43.2	43.4	43.7
100°	50.5	50.9	51.2	51.6	52.0	52.8	53.5	54.2	54.9	55.1	55.2
102.5°	63.6	63.7	63.8	64.0	64.4	65.0	65.7	66.3	67.0	67.2	67.4
105°	83.7	83.8	83.9	84.0	84.1	84.4	84.8	85.1	85.4	85.6	86.0
107.5°	104.9	105.0	105.1	105.2	105.3	105.4	105.4	105.4	105.4	105.7	105.9
110°	119.3	119.5	119.6	119.8	119.9	119.8	119.7	119.6	119.5	119.4	119.2



TEST NUMBER: P332716-927

CATALOG NUMBER: S124DIW-S350D470U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	134.1	134.2	134.2	134.3	134.2	134.0	133.9	133.7	133.6	133.6	133.6
115°	156.5	156.5	156.5	156.5	156.5	156.3	156.1	156.0	155.8	155.7	155.7
117.5°	177.7	177.8	177.8	177.8	177.8	177.8	177.6	177.5	177.4	177.1	176.9
120°	192.0	192.3	192.7	193.0	193.0	192.7	192.5	192.3	192.0	191.6	191.2
122.5°	206.4	206.6	206.7	206.8	206.8	206.8	206.6	206.5	206.4	206.1	205.9
125°	227.9	227.9	227.9	227.9	227.9	227.8	227.8	227.7	227.6	227.4	227.3
127.5°	247.8	248.0	248.3	248.5	248.6	248.4	248.3	248.2	248.0	247.9	247.7
130°	261.6	261.8	262.1	262.3	262.4	262.4	262.4	262.4	262.4	262.2	262.1
132.5°	275.6	275.8	275.9	276.1	276.2	276.1	276.0	276.0	275.9	275.8	275.6
135°	294.5	294.9	295.4	295.9	296.1	296.1	296.1	296.1	296.1	296.0	295.8
137.5°	314.5	314.7	314.9	315.1	315.3	315.4	315.6	315.7	315.8	315.6	315.4
140°	327.9	328.0	328.2	328.4	328.4	328.4	328.4	328.4	328.4	328.4	328.3
142.5°	340.2	340.4	340.6	340.7	340.8	340.7	340.6	340.6	340.5	340.5	340.5
145°	357.5	357.8	358.1	358.5	358.6	358.7	358.8	358.9	358.9	358.9	358.8
147.5°	374.5	374.9	375.3	375.7	375.8	375.7	375.7	375.7	375.6	375.5	375.4
150°	384.8	385.1	385.4	385.7	385.9	385.9	385.9	385.9	385.9	385.9	385.9
152.5°	394.4	394.6	394.8	395.0	395.1	395.1	395.2	395.3	395.4	395.5	395.8
155°	409.2	409.2	409.2	409.2	409.2	409.1	409.0	408.9	408.8	409.2	409.5
157.5°	421.7	421.6	421.4	421.3	421.2	421.2	421.2	421.1	421.1	421.4	421.6
160°	429.3	429.2	429.1	429.0	429.0	428.9	428.8	428.7	428.6	428.9	429.1
162.5°	436.0	435.8	435.6	435.4	435.2	435.1	435.1	435.0	434.9	435.4	435.8
165°	445.2	445.0	444.7	444.5	444.3	444.2	444.0	443.9	443.7	444.2	444.7
167.5°	452.3	451.9	451.6	451.2	451.1	451.1	451.1	451.1	451.1	451.6	452.1
170°	456.2	455.8	455.4	455.0	454.9	455.0	455.0	455.1	455.2	455.7	456.1
172.5°	459.1	458.8	458.5	458.1	458.0	458.0	458.0	458.0	458.0	458.6	459.1
175°	463.0	462.6	462.2	461.8	461.6	461.5	461.4	461.4	461.3	461.8	462.4
177.5°	464.4	464.1	463.7	463.4	463.3	463.3	463.3	463.3	463.3	463.7	464.2
180°	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1	464.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	452.6	452.6	452.6	452.6	452.6	452.6	452.6
2.5°	477.1	477.4	478.7	479.7	480.1	481.6	481.6
5°	519.0	522.1	528.3	528.9	529.8	534.7	530.9
7.5°	568.1	576.2	581.5	586.4	588.0	590.2	589.8
10°	599.6	611.6	617.6	627.2	627.5	629.9	628.4
12.5°	631.2	645.2	656.1	657.9	665.9	667.2	669.2
15°	676.0	690.9	706.1	711.5	722.5	725.2	729.3
17.5°	718.2	733.3	744.0	758.0	762.6	768.7	764.5
20°	741.3	757.8	771.3	782.4	787.0	790.4	790.0
22.5°	755.3	771.9	782.8	791.2	795.6	797.0	796.9
25°	764.0	773.6	777.0	780.1	775.2	773.6	774.3
27.5°	739.7	737.2	728.4	716.8	704.9	695.4	690.1
30°	706.2	691.7	678.3	655.1	643.1	636.0	629.5
32.5°	658.9	635.6	610.1	588.7	575.1	564.6	563.0
35°	577.7	542.8	511.4	485.4	471.9	460.5	457.8
37.5°	491.1	454.9	426.7	403.7	389.2	381.1	373.6
40°	433.6	402.5	374.8	355.3	344.2	338.4	333.7
42.5°	389.4	361.0	333.4	318.5	308.6	305.0	302.2
45°	328.3	301.8	282.7	271.5	265.7	259.7	256.8
47.5°	279.3	257.9	245.3	235.7	229.4	225.9	224.1
50°	251.6	234.0	222.8	215.4	209.8	207.0	205.5
52.5°	227.0	212.5	203.1	197.3	193.5	191.4	190.8
55°	195.5	184.5	178.5	173.4	170.6	168.7	168.0
57.5°	170.0	161.4	156.6	152.4	151.3	149.8	149.2
60°	153.2	146.6	142.5	139.7	138.7	136.9	137.2
62.5°	138.3	132.9	129.4	127.9	126.6	125.0	125.6
65°	117.0	113.0	111.1	109.7	108.2	107.3	108.0
67.5°	98.2	95.5	92.9	92.1	91.3	91.2	90.4
70°	85.9	83.7	81.4	80.8	80.8	80.1	79.9
72.5°	74.0	72.4	70.9	70.4	69.9	70.2	69.4
75°	57.2	55.8	55.3	54.7	54.6	54.6	54.0
77.5°	42.2	41.3	40.4	40.4	39.7	39.5	39.4
80°	32.1	31.7	31.0	31.0	30.6	30.7	30.3
82.5°	24.1	23.6	23.4	23.1	22.6	22.7	22.3
85°	12.9	12.4	12.2	11.6	11.2	11.6	11.2
87.5°	6.3	6.3	6.3	5.9	5.9	5.9	5.5
90°	9.3	9.8	10.1	10.3	10.5	10.6	10.8
92.5°	15.1	15.4	15.5	15.7	15.8	15.8	15.9
95°	28.0	28.2	28.4	28.4	28.4	28.4	28.4
97.5°	44.0	44.3	44.4	44.4	44.4	44.4	44.4
100°	55.4	55.5	55.6	55.6	55.6	55.6	55.6
102.5°	67.7	67.9	68.0	68.0	68.1	68.2	68.3
105°	86.2	86.4	86.7	86.9	87.1	87.4	87.6
107.5°	106.2	106.4	106.5	106.5	106.5	106.4	106.4
110°	119.1	118.9	118.9	119.1	119.4	119.6	119.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	133.5	133.5	133.5	133.6	133.6	133.6	133.6
115°	155.6	155.5	155.4	155.3	155.3	155.2	155.1
117.5°	176.6	176.3	176.1	175.9	175.8	175.6	175.5
120°	190.8	190.4	190.4	190.5	190.7	190.8	191.0
122.5°	205.6	205.3	205.0	204.8	204.5	204.1	203.9
125°	227.1	227.0	226.8	226.6	226.5	226.3	226.2
127.5°	247.6	247.4	247.2	247.2	247.0	246.9	246.8
130°	261.9	261.7	261.5	261.2	260.9	260.5	260.2
132.5°	275.4	275.3	275.1	275.0	274.9	274.7	274.6
135°	295.6	295.5	295.3	295.1	294.9	294.6	294.4
137.5°	315.2	315.0	314.9	315.0	315.0	315.1	315.1
140°	328.2	328.1	328.0	328.0	327.9	327.8	327.7
142.5°	340.5	340.5	340.4	340.4	340.4	340.4	340.4
145°	358.7	358.6	358.5	358.2	358.0	357.7	357.5
147.5°	375.3	375.3	375.3	375.2	375.1	375.0	374.9
150°	385.9	385.9	385.9	385.8	385.7	385.6	385.6
152.5°	395.9	396.2	396.1	395.9	395.7	395.5	395.3
155°	409.8	410.1	410.1	409.8	409.5	409.2	408.8
157.5°	421.8	422.1	422.1	421.8	421.5	421.3	421.0
160°	429.4	429.6	429.5	429.1	428.7	428.3	427.9
162.5°	436.3	436.7	436.7	436.3	435.9	435.5	435.1
165°	445.1	445.6	445.7	445.4	445.0	444.7	444.4
167.5°	452.6	453.0	453.0	452.6	452.1	451.5	451.1
170°	456.6	457.1	457.0	456.5	455.9	455.3	454.8
172.5°	459.7	460.2	460.2	459.6	459.1	458.5	458.0
175°	463.0	463.5	463.5	463.0	462.4	461.8	461.3
177.5°	464.6	465.1	465.0	464.5	464.1	463.5	463.0
180°	464.1	464.1	464.1	464.1	464.1	464.1	464.1

(END OF REPORT)