

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: P332090-935

Luminaire Tested: **S123DIW-S340D460U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332090-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIW-S340D460U935-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 460 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2838.8 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

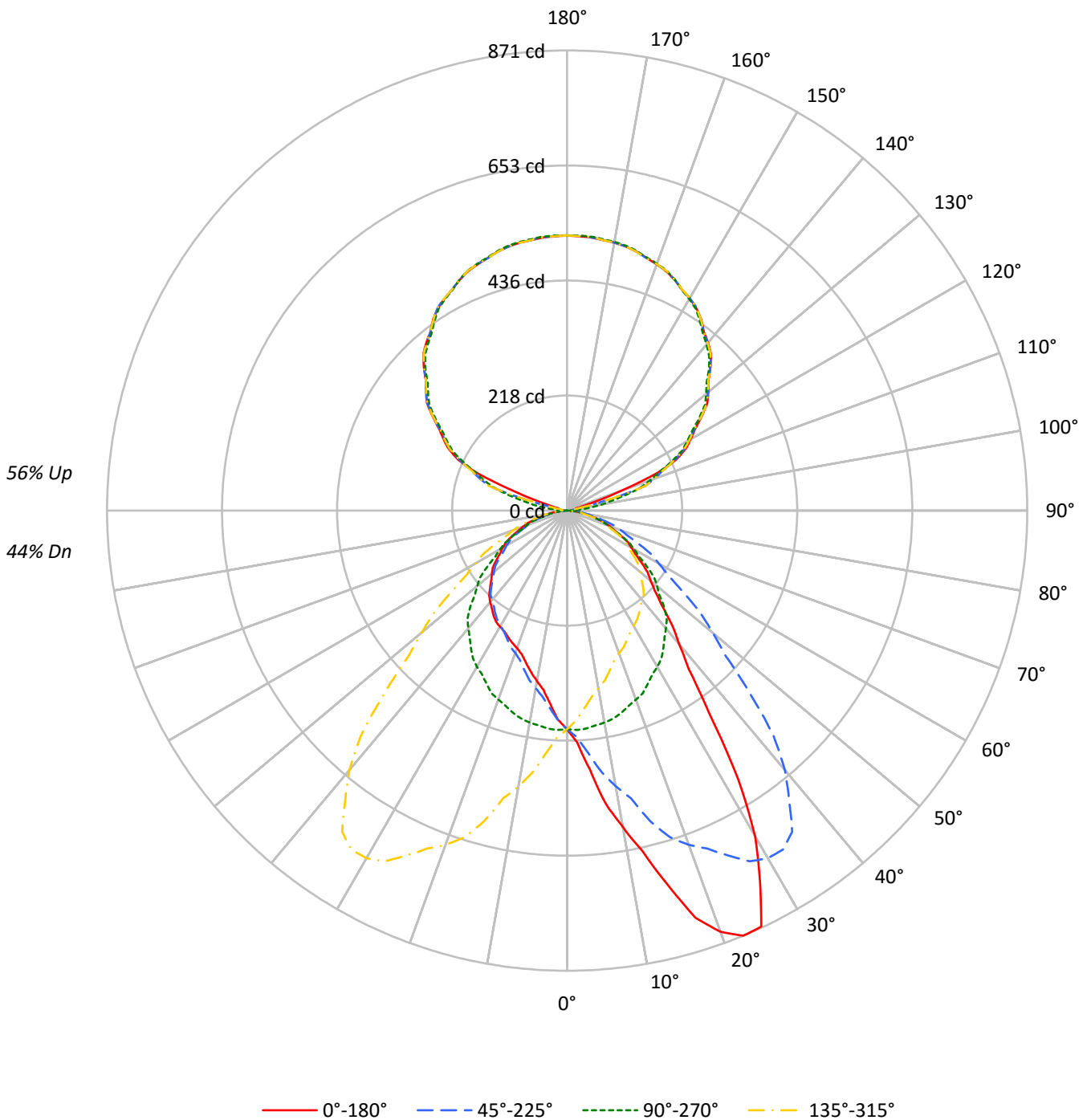
Input Watts (W): 23
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	97	93	89	85	88	85	82	79	70	68	66	57	56	54	45	44	43	38
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	40	38	37	32
3	81	71	64	59	74	66	59	54	55	50	47	45	42	39	36	33	32	27
4	74	63	56	50	67	58	52	46	49	44	40	40	36	33	32	29	27	23
5	68	56	48	43	62	52	45	40	44	38	34	36	32	29	29	26	24	21
6	62	51	43	37	57	47	40	35	39	34	30	33	29	25	26	23	21	18
7	58	46	38	32	53	42	35	30	36	30	26	30	26	23	24	21	19	16
8	53	41	34	29	49	38	32	27	33	27	23	27	23	20	22	19	17	14
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15	13
10	46	35	27	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4456	4456	4456	4456
5°	5314	4475	3965	4475
10°	6652	4453	3583	4453
15°	8158	4416	3335	4416
20°	9718	4361	3175	4361
25°	10320	4292	3139	4292
30°	8846	4243	3156	4243
35°	6151	4172	3189	4172
40°	4634	4089	3180	4089
45°	3847	3965	3139	3965
50°	3446	3716	3110	3716
55°	3222	3445	3072	3445
60°	3023	3160	3040	3160
65°	2840	2881	2942	2881
70°	2662	2565	2801	2565
75°	2383	2246	2570	2246
80°	2089	1841	2213	1841
85°	1643	1334	1494	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.8	1.4
10°-20°	130.8	4.6
20°-30°	219.5	7.7
30°-40°	248.5	8.8
40°-50°	222.9	7.9
50°-60°	179.8	6.3
60°-70°	125.3	4.4
70°-80°	65.9	2.3
80°-90°	17.6	0.6
90°-100°	18.9	0.7
100°-110°	90.2	3.2
110°-120°	216.7	7.6
120°-130°	276.0	9.7
130°-140°	294.8	10.4
140°-150°	275.7	9.7
150°-160°	222.4	7.8
160°-170°	143.5	5.1
170°-180°	49.5	1.7
0°-30°	391.0	13.8
0°-40°	639.5	22.5
0°-60°	1042.2	36.7
0°-90°	1251.0	44.1
90°-120°	325.9	11.5
90°-150°	1172.4	41.3
90°-180°	1588.0	55.9
0°-180°	2838.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	414	414	414	414	414	
5°	492	414	367	414	492	51
15°	732	396	299	396	732	211
25°	869	361	264	361	869	381
35°	468	318	243	318	468	304
45°	253	260	206	260	253	200
55°	172	184	164	184	172	154
65°	112	113	116	113	112	111
75°	57	54	62	54	57	61
85°	13	11	12	11	13	16
90°	12	0	12	0	12	6
95°	15	24	15	24	15	12
105°	17	115	17	115	17	39
115°	228	216	228	216	228	210
125°	311	305	311	305	311	278
135°	383	379	383	379	383	296
145°	442	438	442	438	442	276
155°	482	482	482	482	482	222
165°	508	509	508	509	508	143
175°	519	521	519	521	519	49
180°	521	521	521	521	521	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	439.4	439.0	438.2	438.9	437.6	435.8	435.7	434.0	429.4	429.1	427.8
5°	491.8	490.3	490.0	489.8	487.0	483.2	476.0	475.4	465.7	461.0	455.1
7.5°	559.8	560.6	557.7	555.2	546.6	540.9	533.1	523.2	511.4	499.4	491.5
10°	608.6	615.2	607.0	601.3	596.2	586.3	574.9	560.6	546.4	529.8	517.1
12.5°	660.9	664.1	662.5	657.2	649.1	634.1	613.9	598.1	585.0	557.3	546.1
15°	732.1	744.3	736.5	718.5	718.8	704.6	678.2	649.1	633.6	609.3	576.3
17.5°	808.0	809.5	806.2	791.2	781.2	761.6	737.1	709.3	678.0	648.6	613.5
20°	848.4	847.2	840.2	832.4	815.2	800.0	773.3	742.2	702.1	673.1	634.8
22.5°	870.9	868.9	865.6	859.0	844.7	828.4	804.3	770.4	732.2	692.4	648.2
25°	868.9	871.5	871.9	870.1	865.1	855.3	836.5	809.3	771.3	720.1	674.0
27.5°	790.3	794.0	804.7	814.2	824.8	835.7	834.2	820.8	792.6	748.4	692.0
30°	711.7	703.6	723.5	748.6	765.6	795.7	812.5	813.6	797.7	759.8	704.8
32.5°	602.5	611.4	620.2	651.0	688.3	722.0	755.6	782.6	785.7	760.4	712.4
35°	468.1	479.2	495.2	511.3	551.4	585.9	644.9	696.2	737.1	742.5	713.1
37.5°	377.3	382.7	392.9	409.0	435.1	476.1	521.7	586.6	645.9	690.0	691.9
40°	329.8	331.4	342.8	355.0	376.3	410.0	451.1	508.5	579.5	641.1	666.8
42.5°	294.1	297.6	302.6	314.3	331.2	356.5	394.8	442.2	507.3	578.2	628.4
45°	252.7	256.8	259.8	267.6	279.7	296.7	323.3	366.7	416.2	489.4	557.0
47.5°	225.4	225.7	227.9	233.8	242.0	254.9	273.7	301.5	347.0	406.4	475.8
50°	205.8	209.0	209.8	214.4	220.8	230.2	245.9	269.6	306.9	359.0	422.8
52.5°	192.0	193.0	195.2	198.5	204.1	211.5	225.1	243.6	272.9	317.4	376.0
55°	171.7	171.7	173.9	176.5	179.7	186.3	195.4	209.0	231.3	265.8	314.4
57.5°	152.9	153.9	155.5	156.3	159.0	163.4	170.9	181.3	197.9	224.5	263.0
60°	140.4	142.2	142.0	143.6	146.0	149.5	155.8	164.3	179.1	200.4	232.9
62.5°	129.5	129.4	129.3	131.3	133.6	136.9	141.1	148.4	161.0	179.9	207.5
65°	111.5	111.2	112.5	113.7	114.5	116.9	120.1	126.6	135.0	149.0	170.5
67.5°	95.6	94.4	95.1	95.6	96.9	98.8	101.9	105.8	112.4	123.7	139.9
70°	84.6	83.6	83.4	83.9	85.1	86.4	88.7	92.5	98.7	107.7	119.5
72.5°	73.4	72.8	72.7	73.6	74.1	75.1	76.6	80.1	85.1	91.9	102.9
75°	57.3	57.3	57.3	57.6	58.2	59.0	60.2	62.0	65.8	70.6	78.0
77.5°	43.0	43.0	42.7	42.7	43.6	43.9	44.2	45.9	48.0	51.2	56.7
80°	33.7	32.7	33.1	33.7	34.1	34.3	34.9	35.3	37.1	38.9	42.7
82.5°	25.1	24.2	24.3	25.2	25.3	25.5	26.1	26.6	27.3	28.9	31.0
85°	13.3	13.3	13.4	13.4	13.6	13.4	14.0	14.2	14.2	15.2	16.4
87.5°	7.1	6.8	6.9	7.1	6.8	7.0	7.1	7.1	7.2	7.3	7.2
90°	11.6	11.5	11.3	11.1	10.9	10.7	10.3	10.0	9.6	9.3	8.2
92.5°	12.8	12.7	12.7	12.6	12.4	12.1	11.5	11.0	10.4	9.9	9.0
95°	14.7	14.7	14.7	14.7	14.7	14.4	13.8	13.2	12.6	12.0	11.0
97.5°	15.9	15.8	15.8	15.7	15.6	15.2	14.6	13.9	13.2	12.5	18.7
100°	16.3	16.2	16.1	16.0	15.9	15.5	14.8	14.1	13.4	12.7	26.2
102.5°	16.5	16.4	16.3	16.1	15.9	17.0	19.0	21.2	23.3	25.5	40.1
105°	17.0	16.9	16.7	16.5	16.4	23.8	39.1	54.2	69.5	84.7	92.5
107.5°	53.5	64.9	76.4	87.8	99.4	110.6	121.8	132.9	144.1	155.2	154.0
110°	106.4	118.6	131.0	143.3	155.6	163.1	165.9	168.8	171.6	174.4	173.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	182.5	185.1	187.7	190.3	192.9	194.2	194.1	194.1	194.0	194.0	193.0
115°	227.5	227.1	226.8	226.4	226.1	225.5	224.6	223.8	222.9	222.1	221.3
117.5°	252.7	252.6	252.5	252.4	252.4	252.0	251.3	250.6	249.9	249.3	248.9
120°	270.0	270.0	270.0	270.0	270.0	269.7	269.0	268.3	267.6	266.9	266.7
122.5°	287.1	287.0	286.9	286.8	286.7	286.5	286.0	285.5	285.0	284.6	284.2
125°	311.0	310.8	310.6	310.5	310.3	310.1	310.0	309.8	309.6	309.4	309.1
127.5°	334.1	334.2	334.4	334.6	334.8	334.7	334.4	334.2	333.9	333.6	333.2
130°	348.9	349.0	349.2	349.4	349.6	349.5	349.1	348.8	348.4	348.1	347.8
132.5°	362.6	362.7	363.0	363.3	363.5	363.4	363.1	362.7	362.4	362.1	361.8
135°	383.3	383.6	383.8	384.1	384.4	384.4	384.1	383.8	383.6	383.3	383.0
137.5°	402.9	403.1	403.3	403.5	403.6	403.5	403.0	402.7	402.3	401.8	401.7
140°	414.7	414.8	415.0	415.2	415.3	415.3	414.9	414.6	414.2	413.9	413.6
142.5°	425.5	425.8	426.0	426.2	426.5	426.5	426.2	425.9	425.6	425.3	425.1
145°	442.1	442.1	442.1	442.1	442.1	442.0	441.9	441.7	441.5	441.3	441.2
147.5°	454.5	455.0	455.3	455.7	456.1	456.2	456.1	455.9	455.7	455.6	455.4
150°	463.8	464.1	464.3	464.6	464.9	464.9	464.7	464.5	464.3	464.2	464.0
152.5°	471.2	471.7	472.0	472.4	472.8	472.9	472.5	472.3	471.9	471.7	471.5
155°	481.6	482.1	482.6	483.1	483.6	483.7	483.3	482.8	482.4	482.0	481.9
157.5°	490.3	491.0	491.7	492.3	493.0	493.1	492.6	492.1	491.5	491.0	491.1
160°	495.9	496.5	497.1	497.7	498.3	498.3	497.8	497.3	496.8	496.3	496.4
162.5°	501.2	501.7	502.2	502.7	503.3	503.3	502.7	502.1	501.5	500.9	501.0
165°	507.6	508.2	508.8	509.3	509.9	509.9	509.2	508.5	507.8	507.1	507.2
167.5°	512.1	512.8	513.5	514.1	514.8	514.8	514.1	513.5	512.8	512.1	512.1
170°	514.9	515.6	516.3	516.9	517.6	517.6	516.9	516.3	515.6	514.9	514.9
172.5°	516.4	517.2	517.9	518.7	519.4	519.4	518.8	518.1	517.4	516.7	516.7
175°	518.8	519.4	520.1	520.8	521.5	521.5	520.9	520.3	519.7	519.1	519.0
177.5°	519.4	520.1	520.8	521.5	522.2	522.3	521.7	521.2	520.6	520.0	520.0
180°	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	426.8	425.6	424.3	422.1	420.1	417.4	416.6	415.6	412.7	410.2	408.2
5°	452.9	448.1	441.1	434.6	429.5	422.4	418.4	414.2	408.2	402.8	398.4
7.5°	480.2	470.7	459.8	448.1	437.0	426.5	417.9	410.3	401.8	393.9	387.6
10°	501.9	488.2	472.9	456.5	442.5	428.9	417.4	407.4	396.6	387.1	379.3
12.5°	526.6	506.4	485.3	465.4	448.8	429.8	415.9	403.2	390.9	379.6	370.8
15°	555.8	530.1	505.2	477.8	452.5	428.9	412.4	396.3	382.1	370.5	359.2
17.5°	582.5	553.4	520.6	487.2	456.7	428.6	405.6	387.4	369.6	355.4	344.2
20°	597.5	564.5	527.4	492.7	458.9	427.7	402.3	380.7	361.4	346.4	333.8
22.5°	610.5	571.8	533.4	496.3	458.7	425.1	396.4	374.1	353.3	338.5	325.1
25°	624.1	577.6	539.2	495.7	453.7	418.8	386.8	361.4	340.6	323.3	309.5
27.5°	635.6	577.3	531.6	484.7	445.7	410.8	376.5	349.4	327.3	308.5	294.5
30°	643.3	578.1	523.7	477.4	438.1	402.0	368.7	341.4	318.1	299.1	285.9
32.5°	648.1	577.6	516.5	467.1	425.9	393.9	360.2	331.9	308.0	289.3	276.6
35°	650.9	574.0	504.0	445.9	406.2	375.1	346.8	317.5	292.5	275.0	260.5
37.5°	645.2	566.6	489.7	425.4	381.9	351.4	327.5	302.6	278.6	259.4	246.9
40°	636.5	561.8	478.4	411.0	365.2	335.8	315.6	291.0	267.3	249.1	237.5
42.5°	619.6	552.1	466.1	394.9	347.9	318.5	299.8	279.3	256.9	239.8	228.2
45°	578.5	530.7	447.5	370.9	322.4	291.9	275.4	260.5	240.3	223.7	213.6
47.5°	521.4	498.7	420.7	345.5	295.6	266.3	249.2	237.3	222.5	209.0	199.4
50°	481.8	472.3	402.6	328.1	277.8	249.1	232.6	221.9	211.2	197.8	189.0
52.5°	436.1	441.9	381.4	310.2	259.7	231.4	216.0	207.4	197.8	186.7	179.0
55°	371.7	392.7	344.8	280.0	232.6	205.8	191.1	183.6	177.9	169.7	163.1
57.5°	311.4	338.2	305.2	248.9	206.1	183.0	168.9	160.7	157.0	152.7	147.5
60°	275.6	302.0	277.0	228.1	188.4	166.3	153.9	146.8	143.2	140.2	135.8
62.5°	243.7	270.4	249.4	206.9	170.8	150.4	139.6	132.7	129.9	128.4	124.6
65°	199.8	222.8	208.8	173.9	145.9	127.8	118.0	113.1	110.6	109.9	107.5
67.5°	162.6	180.1	170.0	144.2	122.2	106.6	98.2	94.1	92.1	91.9	90.1
70°	138.2	154.6	146.8	123.6	104.5	92.3	85.1	81.5	80.2	80.1	79.0
72.5°	119.2	130.7	124.5	105.1	90.4	79.3	74.0	70.2	68.9	69.1	68.4
75°	88.3	96.9	93.2	79.8	68.0	60.8	56.4	54.0	52.8	53.4	52.5
77.5°	63.5	69.0	65.7	56.4	49.1	43.9	40.6	39.2	38.1	38.1	37.7
80°	48.0	51.1	49.3	43.7	37.7	33.3	30.7	29.7	29.1	28.8	28.7
82.5°	34.2	36.9	34.7	30.9	26.8	24.1	22.6	21.4	20.9	21.0	20.8
85°	17.2	18.3	17.5	15.1	13.4	12.2	11.5	10.8	10.4	10.6	10.2
87.5°	7.3	7.3	6.5	5.8	5.3	4.6	4.4	4.0	3.8	4.0	4.0
90°	7.1	5.9	4.8	3.8	2.9	2.1	1.2	0.3	1.2	2.1	2.9
92.5°	8.2	7.4	6.5	6.2	6.5	6.7	7.0	7.2	7.0	6.7	6.5
95°	10.1	9.1	8.2	9.5	13.0	16.5	20.1	23.6	20.1	16.5	13.0
97.5°	24.8	31.0	37.2	41.1	42.7	44.3	45.8	47.4	45.8	44.3	42.7
100°	39.6	53.0	66.4	72.2	70.5	68.8	67.1	65.3	67.1	68.8	70.5
102.5°	54.8	69.4	84.0	90.7	89.5	88.3	87.0	85.8	87.0	88.3	89.5
105°	100.2	107.9	115.6	119.1	118.1	117.2	116.2	115.3	116.2	117.2	118.1
107.5°	152.8	151.6	150.4	149.4	148.6	147.9	147.1	146.4	147.1	147.9	148.6
110°	172.5	171.6	170.7	169.9	169.2	168.5	167.8	167.1	167.8	168.5	169.2



TEST NUMBER: P332090-935

CATALOG NUMBER: S123DIW-S340D460U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	192.1	191.1	190.2	189.4	188.7	188.1	187.5	186.9	187.5	188.1	188.7
115°	220.5	219.7	219.0	218.3	217.7	217.2	216.7	216.2	216.7	217.2	217.7
117.5°	248.5	248.1	247.7	247.2	246.5	245.9	245.3	244.6	245.3	245.9	246.5
120°	266.4	266.1	265.9	265.4	264.6	263.8	263.0	262.3	263.0	263.8	264.6
122.5°	283.9	283.6	283.3	282.8	282.1	281.5	280.9	280.3	280.9	281.5	282.1
125°	308.8	308.4	308.1	307.5	306.9	306.2	305.5	304.8	305.5	306.2	306.9
127.5°	332.8	332.3	331.9	331.4	330.7	330.0	329.3	328.6	329.3	330.0	330.7
130°	347.5	347.2	346.8	346.3	345.6	344.9	344.2	343.5	344.2	344.9	345.6
132.5°	361.5	361.3	360.9	360.5	359.8	359.1	358.4	357.7	358.4	359.1	359.8
135°	382.6	382.3	381.9	381.5	381.0	380.5	380.0	379.4	380.0	380.5	381.0
137.5°	401.5	401.3	401.1	400.6	400.0	399.3	398.7	398.0	398.7	399.3	400.0
140°	413.4	413.1	412.8	412.5	412.0	411.5	411.0	410.4	411.0	411.5	412.0
142.5°	424.8	424.6	424.3	424.0	423.4	422.9	422.4	421.9	422.4	422.9	423.4
145°	441.0	440.8	440.7	440.3	439.7	439.1	438.5	437.9	438.5	439.1	439.7
147.5°	455.2	455.0	454.9	454.5	454.2	453.7	453.4	453.0	453.4	453.7	454.2
150°	463.8	463.6	463.5	463.3	463.0	462.8	462.5	462.3	462.5	462.8	463.0
152.5°	471.4	471.3	471.2	471.1	471.0	470.9	470.7	470.6	470.7	470.9	471.0
155°	481.8	481.7	481.6	481.7	481.9	482.0	482.2	482.3	482.2	482.0	481.9
157.5°	491.2	491.3	491.4	491.5	491.5	491.5	491.5	491.5	491.5	491.5	491.5
160°	496.5	496.5	496.6	496.7	496.8	496.9	497.0	497.1	497.0	496.9	496.8
162.5°	501.1	501.2	501.3	501.4	501.7	501.9	502.1	502.3	502.1	501.9	501.7
165°	507.3	507.4	507.5	507.6	507.9	508.2	508.4	508.7	508.4	508.2	507.9
167.5°	512.1	512.1	512.1	512.3	512.6	513.0	513.3	513.7	513.3	513.0	512.6
170°	514.9	514.9	514.9	515.1	515.4	515.7	516.1	516.4	516.1	515.7	515.4
172.5°	516.6	516.5	516.4	516.6	517.0	517.5	517.9	518.2	517.9	517.5	517.0
175°	518.9	518.8	518.8	518.9	519.4	519.8	520.2	520.6	520.2	519.8	519.4
177.5°	519.9	519.9	519.8	519.9	520.2	520.6	520.9	521.2	520.9	520.6	520.2
180°	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6



TEST NUMBER: P332090-935

CATALOG NUMBER: S123DIW-S340D460U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	407.1	406.0	404.4	402.0	400.0	397.0	397.0	397.4	397.4	397.4	397.0
5°	394.8	391.8	388.1	383.9	379.5	375.1	374.3	372.6	371.5	370.7	369.7
7.5°	381.7	376.3	371.1	365.2	359.8	355.4	352.3	349.7	348.1	346.3	345.0
10°	372.9	366.3	360.1	353.9	347.0	341.6	338.2	335.8	334.0	332.3	331.6
12.5°	362.5	354.9	348.0	342.1	334.7	329.1	325.8	324.7	322.6	319.2	317.5
15°	347.2	340.2	332.0	323.0	319.3	312.5	308.7	306.9	305.7	303.1	302.3
17.5°	334.2	325.0	315.7	309.0	302.3	296.8	294.6	292.4	290.8	288.7	288.0
20°	323.7	315.6	307.1	299.9	292.8	286.8	285.0	283.4	281.8	280.9	280.0
22.5°	313.1	305.0	297.9	291.2	283.7	279.7	277.8	276.0	274.9	274.2	273.5
25°	298.3	291.0	283.2	277.2	271.2	268.5	267.3	266.4	265.5	264.6	264.3
27.5°	285.0	277.1	270.8	265.1	260.8	258.6	257.4	257.0	257.2	257.5	257.8
30°	275.0	267.8	262.6	257.8	253.7	251.8	251.5	251.5	252.4	252.5	253.0
32.5°	265.9	259.9	254.7	250.0	247.0	245.6	246.4	246.4	247.0	247.5	248.3
35°	252.5	247.3	243.3	239.3	236.7	237.3	237.7	238.1	239.1	240.3	241.1
37.5°	239.8	235.3	231.1	228.0	226.8	227.8	228.9	229.6	230.8	231.8	232.6
40°	230.7	227.2	223.3	220.4	220.8	221.4	222.2	223.3	224.3	224.9	225.7
42.5°	222.1	218.6	215.5	213.2	213.8	214.6	215.0	215.5	216.7	217.8	218.3
45°	209.2	206.4	203.6	202.2	202.6	203.0	203.4	204.0	205.0	205.8	206.0
47.5°	194.7	192.7	190.8	189.4	190.1	189.9	190.5	191.7	192.0	192.5	193.6
50°	185.4	183.6	181.3	180.9	180.9	180.9	181.2	182.7	182.7	183.6	184.3
52.5°	175.0	173.9	172.5	171.8	171.4	171.4	172.3	173.1	173.4	174.5	175.4
55°	159.9	158.7	157.5	156.9	156.4	156.9	158.4	158.9	159.9	160.5	161.1
57.5°	144.0	143.1	142.2	141.8	141.7	142.2	143.1	144.3	144.6	146.5	147.3
60°	133.6	132.2	131.4	131.4	131.0	132.8	132.4	134.4	134.8	136.0	137.4
62.5°	122.9	121.0	120.6	120.6	121.2	121.7	122.3	123.1	124.2	125.7	126.8
65°	105.5	104.5	105.9	105.7	105.3	106.5	106.5	107.5	108.7	110.1	112.4
67.5°	89.1	88.6	88.7	88.7	89.3	90.0	90.6	91.4	92.9	94.4	95.8
70°	78.0	78.6	77.7	78.4	79.0	79.2	79.6	80.8	82.4	83.4	85.1
72.5°	67.2	67.2	67.3	67.7	68.3	68.6	69.1	70.4	72.2	73.0	74.3
75°	51.7	51.6	52.2	52.2	53.1	53.6	54.0	54.6	56.1	57.3	58.4
77.5°	37.8	38.1	37.9	38.6	38.3	38.4	39.6	40.2	40.4	42.8	43.3
80°	28.5	28.8	29.1	29.3	29.4	29.1	30.5	31.1	31.1	32.5	33.5
82.5°	20.5	20.7	21.2	21.4	21.4	21.9	22.0	22.4	22.9	23.5	24.8
85°	10.2	10.8	11.0	10.8	11.0	10.6	11.2	11.5	11.6	11.6	11.6
87.5°	4.0	4.3	4.4	4.8	4.8	5.3	5.3	5.1	5.1	5.7	5.1
90°	3.8	4.8	5.9	7.1	8.2	9.3	9.6	10.0	10.3	10.7	10.9
92.5°	6.2	6.5	7.4	8.2	9.0	9.9	10.4	11.0	11.5	12.1	12.4
95°	9.5	8.2	9.1	10.1	11.0	12.0	12.6	13.2	13.8	14.4	14.7
97.5°	41.1	37.2	31.0	24.8	18.7	12.5	13.2	13.9	14.6	15.2	15.6
100°	72.2	66.4	53.0	39.6	26.2	12.7	13.4	14.1	14.8	15.5	15.9
102.5°	90.7	84.0	69.4	54.8	40.1	25.5	23.3	21.2	19.0	17.0	15.9
105°	119.1	115.6	107.9	100.2	92.5	84.7	69.5	54.2	39.1	23.8	16.4
107.5°	149.4	150.4	151.6	152.8	154.0	155.2	144.1	132.9	121.8	110.6	99.4
110°	169.9	170.7	171.6	172.5	173.5	174.4	171.6	168.8	165.9	163.1	155.6



TEST NUMBER: P332090-935

CATALOG NUMBER: S123DIW-S340D460U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	189.4	190.2	191.1	192.1	193.0	194.0	194.0	194.1	194.1	194.2	192.9
115°	218.3	219.0	219.7	220.5	221.3	222.1	222.9	223.8	224.6	225.5	226.1
117.5°	247.2	247.7	248.1	248.5	248.9	249.3	249.9	250.6	251.3	252.0	252.4
120°	265.4	265.9	266.1	266.4	266.7	266.9	267.6	268.3	269.0	269.7	270.0
122.5°	282.8	283.3	283.6	283.9	284.2	284.6	285.0	285.5	286.0	286.5	286.7
125°	307.5	308.1	308.4	308.8	309.1	309.4	309.6	309.8	310.0	310.1	310.3
127.5°	331.4	331.9	332.3	332.8	333.2	333.6	333.9	334.2	334.4	334.7	334.8
130°	346.3	346.8	347.2	347.5	347.8	348.1	348.4	348.8	349.1	349.5	349.6
132.5°	360.5	360.9	361.3	361.5	361.8	362.1	362.4	362.7	363.1	363.4	363.5
135°	381.5	381.9	382.3	382.6	383.0	383.3	383.6	383.8	384.1	384.4	384.4
137.5°	400.6	401.1	401.3	401.5	401.7	401.8	402.3	402.7	403.0	403.5	403.6
140°	412.5	412.8	413.1	413.4	413.6	413.9	414.2	414.6	414.9	415.3	415.3
142.5°	424.0	424.3	424.6	424.8	425.1	425.3	425.6	425.9	426.2	426.5	426.5
145°	440.3	440.7	440.8	441.0	441.2	441.3	441.5	441.7	441.9	442.0	442.1
147.5°	454.5	454.9	455.0	455.2	455.4	455.6	455.7	455.9	456.1	456.2	456.1
150°	463.3	463.5	463.6	463.8	464.0	464.2	464.3	464.5	464.7	464.9	464.9
152.5°	471.1	471.2	471.3	471.4	471.5	471.7	471.9	472.3	472.5	472.9	472.8
155°	481.7	481.6	481.7	481.8	481.9	482.0	482.4	482.8	483.3	483.7	483.6
157.5°	491.5	491.4	491.3	491.2	491.1	491.0	491.5	492.1	492.6	493.1	493.0
160°	496.7	496.6	496.5	496.5	496.4	496.3	496.8	497.3	497.8	498.3	498.3
162.5°	501.4	501.3	501.2	501.1	501.0	500.9	501.5	502.1	502.7	503.3	503.3
165°	507.6	507.5	507.4	507.3	507.2	507.1	507.8	508.5	509.2	509.9	509.9
167.5°	512.3	512.1	512.1	512.1	512.1	512.1	512.8	513.5	514.1	514.8	514.8
170°	515.1	514.9	514.9	514.9	514.9	514.9	515.6	516.3	516.9	517.6	517.6
172.5°	516.6	516.4	516.5	516.6	516.7	516.7	517.4	518.1	518.8	519.4	519.4
175°	518.9	518.8	518.8	518.9	519.0	519.1	519.7	520.3	520.9	521.5	521.5
177.5°	519.9	519.8	519.9	519.9	520.0	520.0	520.6	521.2	521.7	522.3	522.2
180°	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6



TEST NUMBER: P332090-935

CATALOG NUMBER: S123DIW-S340D460U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	395.9	395.7	396.8	396.1	396.8	395.7	395.9	397.0	397.4	397.4	397.4
5°	368.5	369.1	367.0	367.0	367.0	369.1	368.5	369.7	370.7	371.5	372.6
7.5°	344.1	343.2	343.3	342.2	343.3	343.2	344.1	345.0	346.3	348.1	349.7
10°	329.2	328.0	327.5	327.8	327.5	328.0	329.2	331.6	332.3	334.0	335.8
12.5°	316.8	316.6	313.9	313.9	313.9	316.6	316.8	317.5	319.2	322.6	324.7
15°	302.3	298.5	298.1	299.3	298.1	298.5	302.3	302.3	303.1	305.7	306.9
17.5°	287.7	285.7	285.9	285.2	285.9	285.7	287.7	288.0	288.7	290.8	292.4
20°	280.0	278.8	278.6	277.2	278.6	278.8	280.0	280.0	280.9	281.8	283.4
22.5°	272.9	272.6	272.7	271.1	272.7	272.6	272.9	273.5	274.2	274.9	276.0
25°	264.2	265.2	264.3	264.3	264.3	265.2	264.2	264.3	264.6	265.5	266.4
27.5°	258.2	258.2	257.8	257.8	257.8	258.2	258.2	257.8	257.5	257.2	257.0
30°	253.7	253.6	253.9	253.9	253.9	253.6	253.7	253.0	252.5	252.4	251.5
32.5°	249.3	249.5	249.6	249.8	249.6	249.5	249.3	248.3	247.5	247.0	246.4
35°	242.3	242.5	243.1	242.7	243.1	242.5	242.3	241.1	240.3	239.1	238.1
37.5°	232.9	233.8	233.7	233.9	233.7	233.8	232.9	232.6	231.8	230.8	229.6
40°	225.8	226.4	226.3	226.3	226.3	226.4	225.8	225.7	224.9	224.3	223.3
42.5°	218.6	219.0	218.5	218.3	218.5	219.0	218.6	218.3	217.8	216.7	215.5
45°	206.8	206.4	207.0	206.2	207.0	206.4	206.8	206.0	205.8	205.0	204.0
47.5°	193.6	194.0	194.2	194.8	194.2	194.0	193.6	193.6	192.5	192.0	191.7
50°	184.8	186.0	186.0	185.7	186.0	186.0	184.8	184.3	183.6	182.7	182.7
52.5°	176.1	176.6	177.5	177.4	177.5	176.6	176.1	175.4	174.5	173.4	173.1
55°	162.6	163.1	163.5	163.7	163.5	163.1	162.6	161.1	160.5	159.9	158.9
57.5°	148.8	148.6	149.6	149.9	149.6	148.6	148.8	147.3	146.5	144.6	144.3
60°	139.0	139.0	140.6	141.2	140.6	139.0	139.0	137.4	136.0	134.8	134.4
62.5°	128.5	129.2	130.8	130.0	130.8	129.2	128.5	126.8	125.7	124.2	123.1
65°	113.3	114.9	114.8	115.5	114.8	114.9	113.3	112.4	110.1	108.7	107.5
67.5°	97.4	98.4	99.9	100.0	99.9	98.4	97.4	95.8	94.4	92.9	91.4
70°	86.6	87.6	88.4	89.0	88.4	87.6	86.6	85.1	83.4	82.4	80.8
72.5°	76.2	76.7	78.7	77.8	78.7	76.7	76.2	74.3	73.0	72.2	70.4
75°	59.8	61.2	62.4	61.8	62.4	61.2	59.8	58.4	57.3	56.1	54.6
77.5°	44.2	45.6	46.1	45.6	46.1	45.6	44.2	43.3	42.8	40.4	40.2
80°	34.9	34.7	35.9	35.7	35.9	34.7	34.9	33.5	32.5	31.1	31.1
82.5°	25.6	25.4	25.9	26.1	25.9	25.4	25.6	24.8	23.5	22.9	22.4
85°	12.4	13.0	12.2	12.1	12.2	13.0	12.4	11.6	11.6	11.6	11.5
87.5°	5.1	5.2	5.0	4.9	5.0	5.2	5.1	5.1	5.7	5.1	5.1
90°	11.1	11.3	11.5	11.6	11.5	11.3	11.1	10.9	10.7	10.3	10.0
92.5°	12.6	12.7	12.7	12.8	12.7	12.7	12.6	12.4	12.1	11.5	11.0
95°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.4	13.8	13.2
97.5°	15.7	15.8	15.8	15.9	15.8	15.8	15.7	15.6	15.2	14.6	13.9
100°	16.0	16.1	16.2	16.3	16.2	16.1	16.0	15.9	15.5	14.8	14.1
102.5°	16.1	16.3	16.4	16.5	16.4	16.3	16.1	15.9	17.0	19.0	21.2
105°	16.5	16.7	16.9	17.0	16.9	16.7	16.5	16.4	23.8	39.1	54.2
107.5°	87.8	76.4	64.9	53.5	64.9	76.4	87.8	99.4	110.6	121.8	132.9
110°	143.3	131.0	118.6	106.4	118.6	131.0	143.3	155.6	163.1	165.9	168.8



TEST NUMBER: P332090-935

CATALOG NUMBER: S123DIW-S340D460U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	190.3	187.7	185.1	182.5	185.1	187.7	190.3	192.9	194.2	194.1	194.1
115°	226.4	226.8	227.1	227.5	227.1	226.8	226.4	226.1	225.5	224.6	223.8
117.5°	252.4	252.5	252.6	252.7	252.6	252.5	252.4	252.4	252.0	251.3	250.6
120°	270.0	270.0	270.0	270.0	270.0	270.0	270.0	270.0	269.7	269.0	268.3
122.5°	286.8	286.9	287.0	287.1	287.0	286.9	286.8	286.7	286.5	286.0	285.5
125°	310.5	310.6	310.8	311.0	310.8	310.6	310.5	310.3	310.1	310.0	309.8
127.5°	334.6	334.4	334.2	334.1	334.2	334.4	334.6	334.8	334.7	334.4	334.2
130°	349.4	349.2	349.0	348.9	349.0	349.2	349.4	349.6	349.5	349.1	348.8
132.5°	363.3	363.0	362.7	362.6	362.7	363.0	363.3	363.5	363.4	363.1	362.7
135°	384.1	383.8	383.6	383.3	383.6	383.8	384.1	384.4	384.4	384.1	383.8
137.5°	403.5	403.3	403.1	402.9	403.1	403.3	403.5	403.6	403.5	403.0	402.7
140°	415.2	415.0	414.8	414.7	414.8	415.0	415.2	415.3	415.3	414.9	414.6
142.5°	426.2	426.0	425.8	425.5	425.8	426.0	426.2	426.5	426.5	426.2	425.9
145°	442.1	442.1	442.1	442.1	442.1	442.1	442.1	442.1	442.0	441.9	441.7
147.5°	455.7	455.3	455.0	454.5	455.0	455.3	455.7	456.1	456.2	456.1	455.9
150°	464.6	464.3	464.1	463.8	464.1	464.3	464.6	464.9	464.9	464.7	464.5
152.5°	472.4	472.0	471.7	471.2	471.7	472.0	472.4	472.8	472.9	472.5	472.3
155°	483.1	482.6	482.1	481.6	482.1	482.6	483.1	483.6	483.7	483.3	482.8
157.5°	492.3	491.7	491.0	490.3	491.0	491.7	492.3	493.0	493.1	492.6	492.1
160°	497.7	497.1	496.5	495.9	496.5	497.1	497.7	498.3	498.3	497.8	497.3
162.5°	502.7	502.2	501.7	501.2	501.7	502.2	502.7	503.3	503.3	502.7	502.1
165°	509.3	508.8	508.2	507.6	508.2	508.8	509.3	509.9	509.9	509.2	508.5
167.5°	514.1	513.5	512.8	512.1	512.8	513.5	514.1	514.8	514.8	514.1	513.5
170°	516.9	516.3	515.6	514.9	515.6	516.3	516.9	517.6	517.6	516.9	516.3
172.5°	518.7	517.9	517.2	516.4	517.2	517.9	518.7	519.4	519.4	518.8	518.1
175°	520.8	520.1	519.4	518.8	519.4	520.1	520.8	521.5	521.5	520.9	520.3
177.5°	521.5	520.8	520.1	519.4	520.1	520.8	521.5	522.2	522.3	521.7	521.2
180°	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6



TEST NUMBER: P332090-935

CATALOG NUMBER: S123DIW-S340D460U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	397.0	397.0	400.0	402.0	404.4	406.0	407.1	408.2	410.2	412.7	415.6
5°	374.3	375.1	379.5	383.9	388.1	391.8	394.8	398.4	402.8	408.2	414.2
7.5°	352.3	355.4	359.8	365.2	371.1	376.3	381.7	387.6	393.9	401.8	410.3
10°	338.2	341.6	347.0	353.9	360.1	366.3	372.9	379.3	387.1	396.6	407.4
12.5°	325.8	329.1	334.7	342.1	348.0	354.9	362.5	370.8	379.6	390.9	403.2
15°	308.7	312.5	319.3	323.0	332.0	340.2	347.2	359.2	370.5	382.1	396.3
17.5°	294.6	296.8	302.3	309.0	315.7	325.0	334.2	344.2	355.4	369.6	387.4
20°	285.0	286.8	292.8	299.9	307.1	315.6	323.7	333.8	346.4	361.4	380.7
22.5°	277.8	279.7	283.7	291.2	297.9	305.0	313.1	325.1	338.5	353.3	374.1
25°	267.3	268.5	271.2	277.2	283.2	291.0	298.3	309.5	323.3	340.6	361.4
27.5°	257.4	258.6	260.8	265.1	270.8	277.1	285.0	294.5	308.5	327.3	349.4
30°	251.5	251.8	253.7	257.8	262.6	267.8	275.0	285.9	299.1	318.1	341.4
32.5°	246.4	245.6	247.0	250.0	254.7	259.9	265.9	276.6	289.3	308.0	331.9
35°	237.7	237.3	236.7	239.3	243.3	247.3	252.5	260.5	275.0	292.5	317.5
37.5°	228.9	227.8	226.8	228.0	231.1	235.3	239.8	246.9	259.4	278.6	302.6
40°	222.2	221.4	220.8	220.4	223.3	227.2	230.7	237.5	249.1	267.3	291.0
42.5°	215.0	214.6	213.8	213.2	215.5	218.6	222.1	228.2	239.8	256.9	279.3
45°	203.4	203.0	202.6	202.2	203.6	206.4	209.2	213.6	223.7	240.3	260.5
47.5°	190.5	189.9	190.1	189.4	190.8	192.7	194.7	199.4	209.0	222.5	237.3
50°	181.2	180.9	180.9	180.9	181.3	183.6	185.4	189.0	197.8	211.2	221.9
52.5°	172.3	171.4	171.4	171.8	172.5	173.9	175.0	179.0	186.7	197.8	207.4
55°	158.4	156.9	156.4	156.9	157.5	158.7	159.9	163.1	169.7	177.9	183.6
57.5°	143.1	142.2	141.7	141.8	142.2	143.1	144.0	147.5	152.7	157.0	160.7
60°	132.4	132.8	131.0	131.4	131.4	132.2	133.6	135.8	140.2	143.2	146.8
62.5°	122.3	121.7	121.2	120.6	120.6	121.0	122.9	124.6	128.4	129.9	132.7
65°	106.5	106.5	105.3	105.7	105.9	104.5	105.5	107.5	109.9	110.6	113.1
67.5°	90.6	90.0	89.3	88.7	88.7	88.6	89.1	90.1	91.9	92.1	94.1
70°	79.6	79.2	79.0	78.4	77.7	78.6	78.0	79.0	80.1	80.2	81.5
72.5°	69.1	68.6	68.3	67.7	67.3	67.2	67.2	68.4	69.1	68.9	70.2
75°	54.0	53.6	53.1	52.2	52.2	51.6	51.7	52.5	53.4	52.8	54.0
77.5°	39.6	38.4	38.3	38.6	37.9	38.1	37.8	37.7	38.1	38.1	39.2
80°	30.5	29.1	29.4	29.3	29.1	28.8	28.5	28.7	28.8	29.1	29.7
82.5°	22.0	21.9	21.4	21.4	21.2	20.7	20.5	20.8	21.0	20.9	21.4
85°	11.2	10.6	11.0	10.8	11.0	10.8	10.2	10.2	10.6	10.4	10.8
87.5°	5.3	5.3	4.8	4.8	4.4	4.3	4.0	4.0	4.0	3.8	4.0
90°	9.6	9.3	8.2	7.1	5.9	4.8	3.8	2.9	2.1	1.2	0.3
92.5°	10.4	9.9	9.0	8.2	7.4	6.5	6.2	6.5	6.7	7.0	7.2
95°	12.6	12.0	11.0	10.1	9.1	8.2	9.5	13.0	16.5	20.1	23.6
97.5°	13.2	12.5	18.7	24.8	31.0	37.2	41.1	42.7	44.3	45.8	47.4
100°	13.4	12.7	26.2	39.6	53.0	66.4	72.2	70.5	68.8	67.1	65.3
102.5°	23.3	25.5	40.1	54.8	69.4	84.0	90.7	89.5	88.3	87.0	85.8
105°	69.5	84.7	92.5	100.2	107.9	115.6	119.1	118.1	117.2	116.2	115.3
107.5°	144.1	155.2	154.0	152.8	151.6	150.4	149.4	148.6	147.9	147.1	146.4
110°	171.6	174.4	173.5	172.5	171.6	170.7	169.9	169.2	168.5	167.8	167.1



TEST NUMBER: P332090-935

CATALOG NUMBER: S123DIW-S340D460U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	194.0	194.0	193.0	192.1	191.1	190.2	189.4	188.7	188.1	187.5	186.9
115°	222.9	222.1	221.3	220.5	219.7	219.0	218.3	217.7	217.2	216.7	216.2
117.5°	249.9	249.3	248.9	248.5	248.1	247.7	247.2	246.5	245.9	245.3	244.6
120°	267.6	266.9	266.7	266.4	266.1	265.9	265.4	264.6	263.8	263.0	262.3
122.5°	285.0	284.6	284.2	283.9	283.6	283.3	282.8	282.1	281.5	280.9	280.3
125°	309.6	309.4	309.1	308.8	308.4	308.1	307.5	306.9	306.2	305.5	304.8
127.5°	333.9	333.6	333.2	332.8	332.3	331.9	331.4	330.7	330.0	329.3	328.6
130°	348.4	348.1	347.8	347.5	347.2	346.8	346.3	345.6	344.9	344.2	343.5
132.5°	362.4	362.1	361.8	361.5	361.3	360.9	360.5	359.8	359.1	358.4	357.7
135°	383.6	383.3	383.0	382.6	382.3	381.9	381.5	381.0	380.5	380.0	379.4
137.5°	402.3	401.8	401.7	401.5	401.3	401.1	400.6	400.0	399.3	398.7	398.0
140°	414.2	413.9	413.6	413.4	413.1	412.8	412.5	412.0	411.5	411.0	410.4
142.5°	425.6	425.3	425.1	424.8	424.6	424.3	424.0	423.4	422.9	422.4	421.9
145°	441.5	441.3	441.2	441.0	440.8	440.7	440.3	439.7	439.1	438.5	437.9
147.5°	455.7	455.6	455.4	455.2	455.0	454.9	454.5	454.2	453.7	453.4	453.0
150°	464.3	464.2	464.0	463.8	463.6	463.5	463.3	463.0	462.8	462.5	462.3
152.5°	471.9	471.7	471.5	471.4	471.3	471.2	471.1	471.0	470.9	470.7	470.6
155°	482.4	482.0	481.9	481.8	481.7	481.6	481.7	481.9	482.0	482.2	482.3
157.5°	491.5	491.0	491.1	491.2	491.3	491.4	491.5	491.5	491.5	491.5	491.5
160°	496.8	496.3	496.4	496.5	496.5	496.6	496.7	496.8	496.9	497.0	497.1
162.5°	501.5	500.9	501.0	501.1	501.2	501.3	501.4	501.7	501.9	502.1	502.3
165°	507.8	507.1	507.2	507.3	507.4	507.5	507.6	507.9	508.2	508.4	508.7
167.5°	512.8	512.1	512.1	512.1	512.1	512.1	512.3	512.6	513.0	513.3	513.7
170°	515.6	514.9	514.9	514.9	514.9	514.9	515.1	515.4	515.7	516.1	516.4
172.5°	517.4	516.7	516.7	516.6	516.5	516.4	516.6	517.0	517.5	517.9	518.2
175°	519.7	519.1	519.0	518.9	518.8	518.8	518.9	519.4	519.8	520.2	520.6
177.5°	520.6	520.0	520.0	519.9	519.9	519.8	519.9	520.2	520.6	520.9	521.2
180°	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6



TEST NUMBER: P332090-935

CATALOG NUMBER: S123DIW-S340D460U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	416.6	417.4	420.1	422.1	424.3	425.6	426.8	427.8	429.1	429.4	434.0
5°	418.4	422.4	429.5	434.6	441.1	448.1	452.9	455.1	461.0	465.7	475.4
7.5°	417.9	426.5	437.0	448.1	459.8	470.7	480.2	491.5	499.4	511.4	523.2
10°	417.4	428.9	442.5	456.5	472.9	488.2	501.9	517.1	529.8	546.4	560.6
12.5°	415.9	429.8	448.8	465.4	485.3	506.4	526.6	546.1	557.3	585.0	598.1
15°	412.4	428.9	452.5	477.8	505.2	530.1	555.8	576.3	609.3	633.6	649.1
17.5°	405.6	428.6	456.7	487.2	520.6	553.4	582.5	613.5	648.6	678.0	709.3
20°	402.3	427.7	458.9	492.7	527.4	564.5	597.5	634.8	673.1	702.1	742.2
22.5°	396.4	425.1	458.7	496.3	533.4	571.8	610.5	648.2	692.4	732.2	770.4
25°	386.8	418.8	453.7	495.7	539.2	577.6	624.1	674.0	720.1	771.3	809.3
27.5°	376.5	410.8	445.7	484.7	531.6	577.3	635.6	692.0	748.4	792.6	820.8
30°	368.7	402.0	438.1	477.4	523.7	578.1	643.3	704.8	759.8	797.7	813.6
32.5°	360.2	393.9	425.9	467.1	516.5	577.6	648.1	712.4	760.4	785.7	782.6
35°	346.8	375.1	406.2	445.9	504.0	574.0	650.9	713.1	742.5	737.1	696.2
37.5°	327.5	351.4	381.9	425.4	489.7	566.6	645.2	691.9	690.0	645.9	586.6
40°	315.6	335.8	365.2	411.0	478.4	561.8	636.5	666.8	641.1	579.5	508.5
42.5°	299.8	318.5	347.9	394.9	466.1	552.1	619.6	628.4	578.2	507.3	442.2
45°	275.4	291.9	322.4	370.9	447.5	530.7	578.5	557.0	489.4	416.2	366.7
47.5°	249.2	266.3	295.6	345.5	420.7	498.7	521.4	475.8	406.4	347.0	301.5
50°	232.6	249.1	277.8	328.1	402.6	472.3	481.8	422.8	359.0	306.9	269.6
52.5°	216.0	231.4	259.7	310.2	381.4	441.9	436.1	376.0	317.4	272.9	243.6
55°	191.1	205.8	232.6	280.0	344.8	392.7	371.7	314.4	265.8	231.3	209.0
57.5°	168.9	183.0	206.1	248.9	305.2	338.2	311.4	263.0	224.5	197.9	181.3
60°	153.9	166.3	188.4	228.1	277.0	302.0	275.6	232.9	200.4	179.1	164.3
62.5°	139.6	150.4	170.8	206.9	249.4	270.4	243.7	207.5	179.9	161.0	148.4
65°	118.0	127.8	145.9	173.9	208.8	222.8	199.8	170.5	149.0	135.0	126.6
67.5°	98.2	106.6	122.2	144.2	170.0	180.1	162.6	139.9	123.7	112.4	105.8
70°	85.1	92.3	104.5	123.6	146.8	154.6	138.2	119.5	107.7	98.7	92.5
72.5°	74.0	79.3	90.4	105.1	124.5	130.7	119.2	102.9	91.9	85.1	80.1
75°	56.4	60.8	68.0	79.8	93.2	96.9	88.3	78.0	70.6	65.8	62.0
77.5°	40.6	43.9	49.1	56.4	65.7	69.0	63.5	56.7	51.2	48.0	45.9
80°	30.7	33.3	37.7	43.7	49.3	51.1	48.0	42.7	38.9	37.1	35.3
82.5°	22.6	24.1	26.8	30.9	34.7	36.9	34.2	31.0	28.9	27.3	26.6
85°	11.5	12.2	13.4	15.1	17.5	18.3	17.2	16.4	15.2	14.2	14.2
87.5°	4.4	4.6	5.3	5.8	6.5	7.3	7.3	7.2	7.3	7.2	7.1
90°	1.2	2.1	2.9	3.8	4.8	5.9	7.1	8.2	9.3	9.6	10.0
92.5°	7.0	6.7	6.5	6.2	6.5	7.4	8.2	9.0	9.9	10.4	11.0
95°	20.1	16.5	13.0	9.5	8.2	9.1	10.1	11.0	12.0	12.6	13.2
97.5°	45.8	44.3	42.7	41.1	37.2	31.0	24.8	18.7	12.5	13.2	13.9
100°	67.1	68.8	70.5	72.2	66.4	53.0	39.6	26.2	12.7	13.4	14.1
102.5°	87.0	88.3	89.5	90.7	84.0	69.4	54.8	40.1	25.5	23.3	21.2
105°	116.2	117.2	118.1	119.1	115.6	107.9	100.2	92.5	84.7	69.5	54.2
107.5°	147.1	147.9	148.6	149.4	150.4	151.6	152.8	154.0	155.2	144.1	132.9
110°	167.8	168.5	169.2	169.9	170.7	171.6	172.5	173.5	174.4	171.6	168.8



TEST NUMBER: P332090-935

CATALOG NUMBER: S123DIW-S340D460U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	187.5	188.1	188.7	189.4	190.2	191.1	192.1	193.0	194.0	194.0	194.1
115°	216.7	217.2	217.7	218.3	219.0	219.7	220.5	221.3	222.1	222.9	223.8
117.5°	245.3	245.9	246.5	247.2	247.7	248.1	248.5	248.9	249.3	249.9	250.6
120°	263.0	263.8	264.6	265.4	265.9	266.1	266.4	266.7	266.9	267.6	268.3
122.5°	280.9	281.5	282.1	282.8	283.3	283.6	283.9	284.2	284.6	285.0	285.5
125°	305.5	306.2	306.9	307.5	308.1	308.4	308.8	309.1	309.4	309.6	309.8
127.5°	329.3	330.0	330.7	331.4	331.9	332.3	332.8	333.2	333.6	333.9	334.2
130°	344.2	344.9	345.6	346.3	346.8	347.2	347.5	347.8	348.1	348.4	348.8
132.5°	358.4	359.1	359.8	360.5	360.9	361.3	361.5	361.8	362.1	362.4	362.7
135°	380.0	380.5	381.0	381.5	381.9	382.3	382.6	383.0	383.3	383.6	383.8
137.5°	398.7	399.3	400.0	400.6	401.1	401.3	401.5	401.7	401.8	402.3	402.7
140°	411.0	411.5	412.0	412.5	412.8	413.1	413.4	413.6	413.9	414.2	414.6
142.5°	422.4	422.9	423.4	424.0	424.3	424.6	424.8	425.1	425.3	425.6	425.9
145°	438.5	439.1	439.7	440.3	440.7	440.8	441.0	441.2	441.3	441.5	441.7
147.5°	453.4	453.7	454.2	454.5	454.9	455.0	455.2	455.4	455.6	455.7	455.9
150°	462.5	462.8	463.0	463.3	463.5	463.6	463.8	464.0	464.2	464.3	464.5
152.5°	470.7	470.9	471.0	471.1	471.2	471.3	471.4	471.5	471.7	471.9	472.3
155°	482.2	482.0	481.9	481.7	481.6	481.7	481.8	481.9	482.0	482.4	482.8
157.5°	491.5	491.5	491.5	491.5	491.4	491.3	491.2	491.1	491.0	491.5	492.1
160°	497.0	496.9	496.8	496.7	496.6	496.5	496.5	496.4	496.3	496.8	497.3
162.5°	502.1	501.9	501.7	501.4	501.3	501.2	501.1	501.0	500.9	501.5	502.1
165°	508.4	508.2	507.9	507.6	507.5	507.4	507.3	507.2	507.1	507.8	508.5
167.5°	513.3	513.0	512.6	512.3	512.1	512.1	512.1	512.1	512.1	512.8	513.5
170°	516.1	515.7	515.4	515.1	514.9	514.9	514.9	514.9	514.9	515.6	516.3
172.5°	517.9	517.5	517.0	516.6	516.4	516.5	516.6	516.7	516.7	517.4	518.1
175°	520.2	519.8	519.4	518.9	518.8	518.8	518.9	519.0	519.1	519.7	520.3
177.5°	520.9	520.6	520.2	519.9	519.8	519.9	519.9	520.0	520.0	520.6	521.2
180°	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	435.7	435.8	437.6	438.9	438.2	439.0	439.4
5°	476.0	483.2	487.0	489.8	490.0	490.3	491.8
7.5°	533.1	540.9	546.6	555.2	557.7	560.6	559.8
10°	574.9	586.3	596.2	601.3	607.0	615.2	608.6
12.5°	613.9	634.1	649.1	657.2	662.5	664.1	660.9
15°	678.2	704.6	718.8	718.5	736.5	744.3	732.1
17.5°	737.1	761.6	781.2	791.2	806.2	809.5	808.0
20°	773.3	800.0	815.2	832.4	840.2	847.2	848.4
22.5°	804.3	828.4	844.7	859.0	865.6	868.9	870.9
25°	836.5	855.3	865.1	870.1	871.9	871.5	868.9
27.5°	834.2	835.7	824.8	814.2	804.7	794.0	790.3
30°	812.5	795.7	765.6	748.6	723.5	703.6	711.7
32.5°	755.6	722.0	688.3	651.0	620.2	611.4	602.5
35°	644.9	585.9	551.4	511.3	495.2	479.2	468.1
37.5°	521.7	476.1	435.1	409.0	392.9	382.7	377.3
40°	451.1	410.0	376.3	355.0	342.8	331.4	329.8
42.5°	394.8	356.5	331.2	314.3	302.6	297.6	294.1
45°	323.3	296.7	279.7	267.6	259.8	256.8	252.7
47.5°	273.7	254.9	242.0	233.8	227.9	225.7	225.4
50°	245.9	230.2	220.8	214.4	209.8	209.0	205.8
52.5°	225.1	211.5	204.1	198.5	195.2	193.0	192.0
55°	195.4	186.3	179.7	176.5	173.9	171.7	171.7
57.5°	170.9	163.4	159.0	156.3	155.5	153.9	152.9
60°	155.8	149.5	146.0	143.6	142.0	142.2	140.4
62.5°	141.1	136.9	133.6	131.3	129.3	129.4	129.5
65°	120.1	116.9	114.5	113.7	112.5	111.2	111.5
67.5°	101.9	98.8	96.9	95.6	95.1	94.4	95.6
70°	88.7	86.4	85.1	83.9	83.4	83.6	84.6
72.5°	76.6	75.1	74.1	73.6	72.7	72.8	73.4
75°	60.2	59.0	58.2	57.6	57.3	57.3	57.3
77.5°	44.2	43.9	43.6	42.7	42.7	43.0	43.0
80°	34.9	34.3	34.1	33.7	33.1	32.7	33.7
82.5°	26.1	25.5	25.3	25.2	24.3	24.2	25.1
85°	14.0	13.4	13.6	13.4	13.4	13.3	13.3
87.5°	7.1	7.0	6.8	7.1	6.9	6.8	7.1
90°	10.3	10.7	10.9	11.1	11.3	11.5	11.6
92.5°	11.5	12.1	12.4	12.6	12.7	12.7	12.8
95°	13.8	14.4	14.7	14.7	14.7	14.7	14.7
97.5°	14.6	15.2	15.6	15.7	15.8	15.8	15.9
100°	14.8	15.5	15.9	16.0	16.1	16.2	16.3
102.5°	19.0	17.0	15.9	16.1	16.3	16.4	16.5
105°	39.1	23.8	16.4	16.5	16.7	16.9	17.0
107.5°	121.8	110.6	99.4	87.8	76.4	64.9	53.5
110°	165.9	163.1	155.6	143.3	131.0	118.6	106.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	194.1	194.2	192.9	190.3	187.7	185.1	182.5
115°	224.6	225.5	226.1	226.4	226.8	227.1	227.5
117.5°	251.3	252.0	252.4	252.4	252.5	252.6	252.7
120°	269.0	269.7	270.0	270.0	270.0	270.0	270.0
122.5°	286.0	286.5	286.7	286.8	286.9	287.0	287.1
125°	310.0	310.1	310.3	310.5	310.6	310.8	311.0
127.5°	334.4	334.7	334.8	334.6	334.4	334.2	334.1
130°	349.1	349.5	349.6	349.4	349.2	349.0	348.9
132.5°	363.1	363.4	363.5	363.3	363.0	362.7	362.6
135°	384.1	384.4	384.4	384.1	383.8	383.6	383.3
137.5°	403.0	403.5	403.6	403.5	403.3	403.1	402.9
140°	414.9	415.3	415.3	415.2	415.0	414.8	414.7
142.5°	426.2	426.5	426.5	426.2	426.0	425.8	425.5
145°	441.9	442.0	442.1	442.1	442.1	442.1	442.1
147.5°	456.1	456.2	456.1	455.7	455.3	455.0	454.5
150°	464.7	464.9	464.9	464.6	464.3	464.1	463.8
152.5°	472.5	472.9	472.8	472.4	472.0	471.7	471.2
155°	483.3	483.7	483.6	483.1	482.6	482.1	481.6
157.5°	492.6	493.1	493.0	492.3	491.7	491.0	490.3
160°	497.8	498.3	498.3	497.7	497.1	496.5	495.9
162.5°	502.7	503.3	503.3	502.7	502.2	501.7	501.2
165°	509.2	509.9	509.9	509.3	508.8	508.2	507.6
167.5°	514.1	514.8	514.8	514.1	513.5	512.8	512.1
170°	516.9	517.6	517.6	516.9	516.3	515.6	514.9
172.5°	518.8	519.4	519.4	518.7	517.9	517.2	516.4
175°	520.9	521.5	521.5	520.8	520.1	519.4	518.8
177.5°	521.7	522.3	522.2	521.5	520.8	520.1	519.4
180°	520.6	520.6	520.6	520.6	520.6	520.6	520.6

(END OF REPORT)