

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: P331883-935

Luminaire Tested: **S123DIP-S340D805U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331883-935
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: S123DIP-S340D805U935-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 805 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4015.0 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

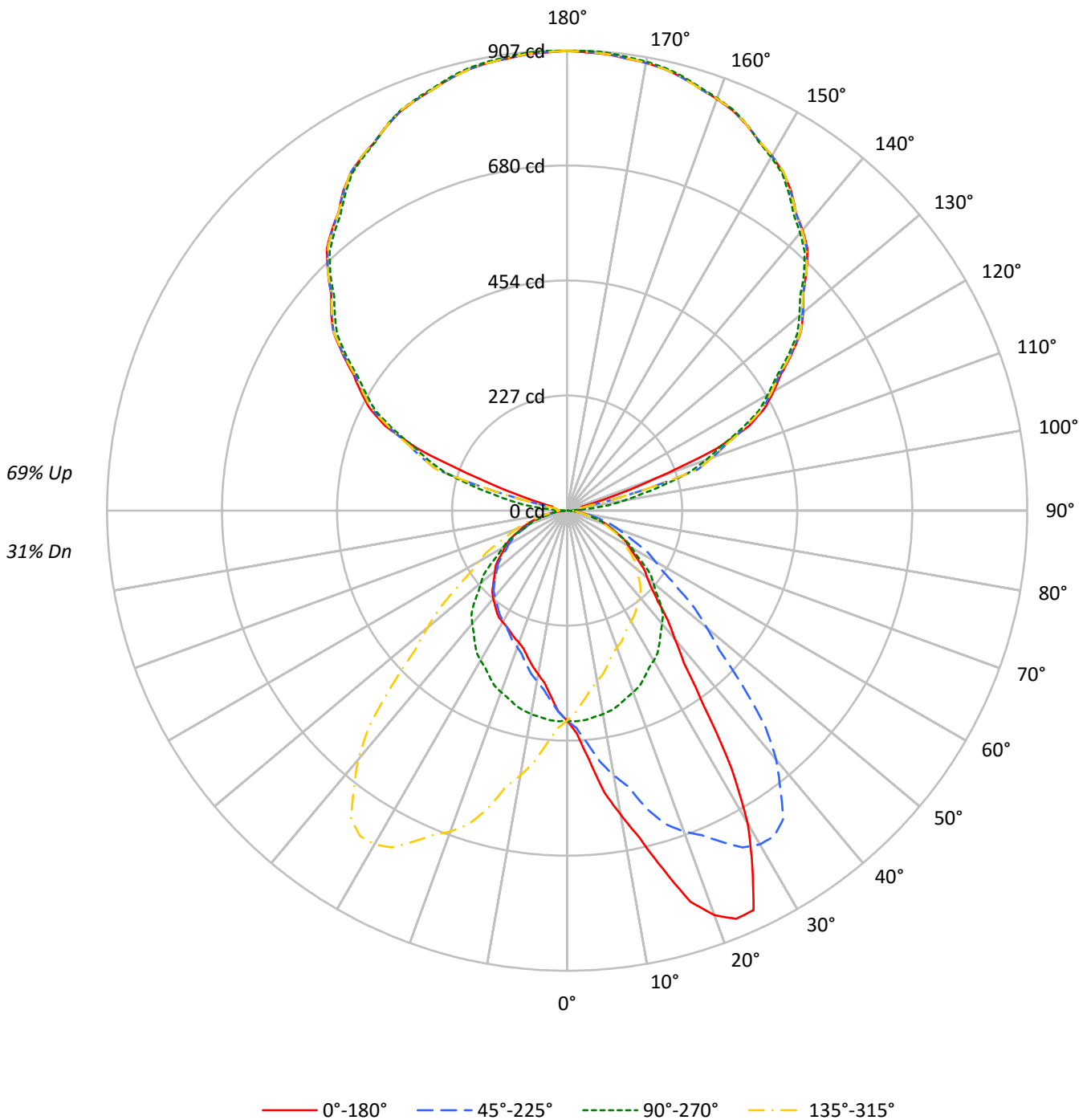
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	90	86	83	84	81	78	75	64	62	60	49	47	46	35	34	33	27
2	85	78	73	68	77	71	66	62	56	53	50	43	41	39	31	29	28	23
3	78	69	62	56	70	62	56	52	50	45	42	38	35	33	27	25	24	19
4	71	61	53	48	64	55	49	44	44	39	36	34	31	28	24	22	21	17
5	65	54	46	41	59	49	42	37	39	35	31	30	27	24	22	20	18	14
6	60	49	41	35	54	44	37	32	35	31	27	27	24	21	20	18	16	13
7	56	44	36	31	50	40	33	28	32	27	24	25	21	19	18	16	14	11
8	51	40	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	19	21	17	15	15	13	11	9
10	45	33	26	21	40	30	24	20	24	20	17	19	16	13	14	12	10	8

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	1.0
10°-20°	130.8	3.3
20°-30°	219.5	5.5
30°-40°	248.5	6.2
40°-50°	222.9	5.6
50°-60°	179.8	4.5
60°-70°	125.3	3.1
70°-80°	65.9	1.6
80°-90°	18.6	0.5
90°-100°	32.9	0.8
100°-110°	157.0	3.9
110°-120°	377.1	9.4
120°-130°	480.2	12.0
130°-140°	513.1	12.8
140°-150°	479.8	11.9
150°-160°	387.0	9.6
160°-170°	249.8	6.2
170°-180°	86.1	2.1
0°-30°	391.0	9.7
0°-40°	639.5	15.9
0°-60°	1042.2	26.0
0°-90°	1252.1	31.2
90°-120°	567.0	14.1
90°-150°	2040.1	50.8
90°-180°	2763.0	68.8
0°-180°	4015.0	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°	20	1	20	1	20	10
95°	26	41	26	41	26	21
105°	30	201	30	201	30	68
115°	396	376	396	376	396	366
125°	541	530	541	530	541	483
135°	667	660	667	660	667	514
145°	769	762	769	762	769	480
155°	838	839	838	839	838	386
165°	883	885	883	885	883	249
175°	903	906	903	906	903	86
180°	906	906	906	906	906	



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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°	8.9	8.4	8.6	8.7	8.4	8.5	8.5	8.6	8.6	8.7	8.4
90°	20.2	19.9	19.6	19.3	19.0	18.5	17.9	17.4	16.8	16.2	14.2
92.5°	22.4	22.1	22.0	21.8	21.6	21.1	20.1	19.1	18.2	17.2	15.8
95°	25.6	25.6	25.6	25.6	25.6	25.1	24.0	23.0	22.0	20.8	19.2
97.5°	27.7	27.6	27.5	27.3	27.1	26.4	25.2	24.1	22.9	21.7	32.5
100°	28.2	28.2	28.0	27.8	27.6	27.0	25.8	24.6	23.4	22.2	45.5
102.5°	28.8	28.5	28.2	28.0	27.7	29.4	33.1	36.9	40.6	44.3	69.7
105°	29.6	29.4	29.0	28.8	28.4	41.5	68.0	94.5	121.0	147.4	160.8
107.5°	93.0	113.0	132.9	152.9	172.8	192.5	212.0	231.4	250.8	270.2	268.0
110°	185.1	206.5	227.9	249.3	270.7	283.9	288.8	293.7	298.7	303.6	302.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	317.6	322.1	326.6	331.1	335.6	337.9	337.8	337.7	337.6	337.5	335.9
115°	395.8	395.2	394.6	394.0	393.4	392.4	390.9	389.3	387.9	386.4	385.0
117.5°	439.7	439.5	439.5	439.4	439.2	438.5	437.4	436.2	435.0	433.8	433.1
120°	469.8	469.8	469.8	469.8	469.8	469.2	468.0	466.8	465.6	464.4	464.0
122.5°	499.5	499.4	499.2	499.1	498.9	498.5	497.7	496.8	496.0	495.2	494.6
125°	541.2	540.9	540.6	540.3	540.0	539.7	539.4	539.1	538.8	538.5	537.9
127.5°	581.3	581.6	581.9	582.2	582.5	582.4	581.9	581.4	581.0	580.5	579.8
130°	607.2	607.4	607.8	608.0	608.4	608.2	607.6	607.0	606.4	605.8	605.2
132.5°	630.9	631.3	631.7	632.1	632.5	632.4	631.8	631.2	630.7	630.1	629.6
135°	667.1	667.5	668.0	668.4	668.8	668.8	668.4	668.0	667.5	667.1	666.5
137.5°	701.1	701.5	701.7	702.1	702.3	702.1	701.4	700.7	700.0	699.2	698.9
140°	721.6	721.9	722.2	722.5	722.8	722.6	722.0	721.4	720.8	720.2	719.8
142.5°	740.5	740.9	741.2	741.7	742.1	742.1	741.6	741.1	740.6	740.2	739.7
145°	769.4	769.4	769.4	769.4	769.4	769.2	769.0	768.6	768.4	768.0	767.8
147.5°	790.9	791.6	792.3	793.0	793.7	793.8	793.6	793.2	793.0	792.6	792.4
150°	807.1	807.5	808.0	808.4	808.9	808.9	808.7	808.3	808.0	807.8	807.4
152.5°	820.0	820.7	821.4	822.1	822.8	822.9	822.3	821.7	821.2	820.7	820.5
155°	838.0	839.0	839.8	840.8	841.6	841.7	840.9	840.2	839.5	838.7	838.5
157.5°	853.3	854.5	855.6	856.8	857.9	858.1	857.1	856.3	855.4	854.5	854.6
160°	863.0	864.0	865.0	866.1	867.1	867.2	866.3	865.4	864.5	863.6	863.8
162.5°	872.1	873.1	873.9	874.9	875.8	875.7	874.8	873.7	872.7	871.7	871.8
165°	883.1	884.2	885.2	886.3	887.3	887.3	886.1	884.8	883.6	882.4	882.6
167.5°	891.0	892.3	893.5	894.7	895.9	895.9	894.7	893.5	892.3	891.0	891.0
170°	896.0	897.2	898.3	899.5	900.7	900.7	899.5	898.3	897.2	896.0	896.0
172.5°	898.6	899.9	901.3	902.6	903.9	904.0	902.8	901.6	900.3	899.1	899.1
175°	902.7	903.9	905.1	906.3	907.4	907.5	906.5	905.4	904.4	903.4	903.2
177.5°	903.9	905.1	906.3	907.5	908.7	908.8	907.8	906.9	905.9	904.9	904.8
180°	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0



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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°	8.4	8.2	7.3	6.3	5.7	4.9	4.6	4.0	4.0	4.3	4.4
90°	12.2	10.3	8.4	6.6	5.2	3.7	2.2	0.7	2.2	3.7	5.2
92.5°	14.3	12.8	11.4	10.8	11.3	11.7	12.1	12.5	12.1	11.7	11.3
95°	17.6	15.9	14.3	16.5	22.6	28.8	35.0	41.1	35.0	28.8	22.6
97.5°	43.2	54.0	64.7	71.5	74.3	77.1	79.8	82.5	79.8	77.1	74.3
100°	68.9	92.2	115.5	125.7	122.7	119.8	116.8	113.7	116.8	119.8	122.7
102.5°	95.2	120.8	146.3	157.9	155.8	153.6	151.4	149.3	151.4	153.6	155.8
105°	174.4	187.8	201.3	207.2	205.5	203.9	202.2	200.6	202.2	203.9	205.5
107.5°	266.0	263.8	261.7	259.9	258.6	257.4	256.1	254.7	256.1	257.4	258.6
110°	300.3	298.7	297.0	295.6	294.4	293.2	292.0	290.8	292.0	293.2	294.4



TEST NUMBER: P331883-935

CATALOG NUMBER: S123DIP-S340D805U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	334.2	332.6	330.9	329.6	328.5	327.4	326.3	325.3	326.3	327.4	328.5
115°	383.7	382.4	381.0	379.9	379.0	378.1	377.2	376.3	377.2	378.1	379.0
117.5°	432.4	431.7	431.0	430.1	429.0	427.9	426.8	425.7	426.8	427.9	429.0
120°	463.6	463.1	462.7	461.8	460.4	459.1	457.7	456.4	457.7	459.1	460.4
122.5°	494.0	493.4	492.8	492.1	490.9	489.8	488.7	487.6	488.7	489.8	490.9
125°	537.3	536.7	536.1	535.2	534.0	532.8	531.6	530.5	531.6	532.8	534.0
127.5°	579.1	578.3	577.6	576.7	575.5	574.3	573.1	571.9	573.1	574.3	575.5
130°	604.6	604.0	603.4	602.5	601.3	600.1	598.9	597.7	598.9	600.1	601.3
132.5°	629.0	628.6	628.1	627.3	626.1	624.9	623.7	622.5	623.7	624.9	626.1
135°	665.9	665.3	664.7	663.9	663.1	662.1	661.2	660.3	661.2	662.1	663.1
137.5°	698.6	698.3	697.9	697.2	696.0	694.9	693.8	692.7	693.8	694.9	696.0
140°	719.4	718.9	718.4	717.8	716.9	716.0	715.1	714.2	715.1	716.0	716.9
142.5°	739.3	738.8	738.4	737.7	736.8	735.9	735.0	734.1	735.0	735.9	736.8
145°	767.4	767.2	766.8	766.2	765.1	764.1	763.0	762.0	763.0	764.1	765.1
147.5°	792.0	791.8	791.5	791.0	790.3	789.6	788.9	788.2	788.9	789.6	790.3
150°	807.2	806.8	806.6	806.2	805.7	805.3	804.9	804.3	804.9	805.3	805.7
152.5°	820.3	820.1	819.9	819.8	819.6	819.3	819.2	818.9	819.2	819.3	819.6
155°	838.4	838.3	838.1	838.2	838.5	838.8	839.1	839.4	839.1	838.8	838.5
157.5°	854.8	854.9	855.1	855.1	855.1	855.2	855.2	855.2	855.2	855.2	855.1
160°	863.9	864.1	864.2	864.4	864.5	864.7	864.8	865.0	864.8	864.7	864.5
162.5°	872.0	872.1	872.3	872.5	873.0	873.3	873.7	874.1	873.7	873.3	873.0
165°	882.8	883.0	883.0	883.4	883.8	884.2	884.7	885.2	884.7	884.2	883.8
167.5°	891.0	891.0	891.0	891.4	892.0	892.6	893.2	893.8	893.2	892.6	892.0
170°	896.0	896.0	896.0	896.2	896.8	897.4	898.0	898.6	898.0	897.4	896.8
172.5°	898.9	898.8	898.7	899.0	899.7	900.4	901.1	901.8	901.1	900.4	899.7
175°	903.0	902.8	902.8	903.0	903.8	904.6	905.3	906.0	905.3	904.6	903.8
177.5°	904.7	904.6	904.5	904.7	905.3	905.9	906.5	907.1	906.5	905.9	905.3
180°	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0



TEST NUMBER: P331883-935

CATALOG NUMBER: S123DIP-S340D805U935-4F0-1E-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°	4.6	5.1	5.3	5.9	6.0	6.6	6.7	6.5	6.6	7.2	6.7
90°	6.6	8.4	10.3	12.2	14.2	16.2	16.8	17.4	17.9	18.5	19.0
92.5°	10.8	11.4	12.8	14.3	15.8	17.2	18.2	19.1	20.1	21.1	21.6
95°	16.5	14.3	15.9	17.6	19.2	20.8	22.0	23.0	24.0	25.1	25.6
97.5°	71.5	64.7	54.0	43.2	32.5	21.7	22.9	24.1	25.2	26.4	27.1
100°	125.7	115.5	92.2	68.9	45.5	22.2	23.4	24.6	25.8	27.0	27.6
102.5°	157.9	146.3	120.8	95.2	69.7	44.3	40.6	36.9	33.1	29.4	27.7
105°	207.2	201.3	187.8	174.4	160.8	147.4	121.0	94.5	68.0	41.5	28.4
107.5°	259.9	261.7	263.8	266.0	268.0	270.2	250.8	231.4	212.0	192.5	172.8
110°	295.6	297.0	298.7	300.3	302.0	303.6	298.7	293.7	288.8	283.9	270.7



TEST NUMBER: P331883-935

CATALOG NUMBER: S123DIP-S340D805U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	329.6	330.9	332.6	334.2	335.9	337.5	337.6	337.7	337.8	337.9	335.6
115°	379.9	381.0	382.4	383.7	385.0	386.4	387.9	389.3	390.9	392.4	393.4
117.5°	430.1	431.0	431.7	432.4	433.1	433.8	435.0	436.2	437.4	438.5	439.2
120°	461.8	462.7	463.1	463.6	464.0	464.4	465.6	466.8	468.0	469.2	469.8
122.5°	492.1	492.8	493.4	494.0	494.6	495.2	496.0	496.8	497.7	498.5	498.9
125°	535.2	536.1	536.7	537.3	537.9	538.5	538.8	539.1	539.4	539.7	540.0
127.5°	576.7	577.6	578.3	579.1	579.8	580.5	581.0	581.4	581.9	582.4	582.5
130°	602.5	603.4	604.0	604.6	605.2	605.8	606.4	607.0	607.6	608.2	608.4
132.5°	627.3	628.1	628.6	629.0	629.6	630.1	630.7	631.2	631.8	632.4	632.5
135°	663.9	664.7	665.3	665.9	666.5	667.1	667.5	668.0	668.4	668.8	668.8
137.5°	697.2	697.9	698.3	698.6	698.9	699.2	700.0	700.7	701.4	702.1	702.3
140°	717.8	718.4	718.9	719.4	719.8	720.2	720.8	721.4	722.0	722.6	722.8
142.5°	737.7	738.4	738.8	739.3	739.7	740.2	740.6	741.1	741.6	742.1	742.1
145°	766.2	766.8	767.2	767.4	767.8	768.0	768.4	768.6	769.0	769.2	769.4
147.5°	791.0	791.5	791.8	792.0	792.4	792.6	793.0	793.2	793.6	793.8	793.7
150°	806.2	806.6	806.8	807.2	807.4	807.8	808.0	808.3	808.7	808.9	808.9
152.5°	819.8	819.9	820.1	820.3	820.5	820.7	821.2	821.7	822.3	822.9	822.8
155°	838.2	838.1	838.3	838.4	838.5	838.7	839.5	840.2	840.9	841.7	841.6
157.5°	855.1	855.1	854.9	854.8	854.6	854.5	855.4	856.3	857.1	858.1	857.9
160°	864.4	864.2	864.1	863.9	863.8	863.6	864.5	865.4	866.3	867.2	867.1
162.5°	872.5	872.3	872.1	872.0	871.8	871.7	872.7	873.7	874.8	875.7	875.8
165°	883.4	883.0	883.0	882.8	882.6	882.4	883.6	884.8	886.1	887.3	887.3
167.5°	891.4	891.0	891.0	891.0	891.0	891.0	892.3	893.5	894.7	895.9	895.9
170°	896.2	896.0	896.0	896.0	896.0	896.0	897.2	898.3	899.5	900.7	900.7
172.5°	899.0	898.7	898.8	898.9	899.1	899.1	900.3	901.6	902.8	904.0	903.9
175°	903.0	902.8	902.8	903.0	903.2	903.4	904.4	905.4	906.5	907.5	907.4
177.5°	904.7	904.5	904.6	904.7	904.8	904.9	905.9	906.9	907.8	908.8	908.7
180°	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0



TEST NUMBER: P331883-935

CATALOG NUMBER: S123DIP-S340D805U935-4F0-1E-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°	6.7	6.8	6.7	6.6	6.7	6.8	6.7	6.7	7.2	6.6	6.5
90°	19.3	19.6	19.9	20.2	19.9	19.6	19.3	19.0	18.5	17.9	17.4
92.5°	21.8	22.0	22.1	22.4	22.1	22.0	21.8	21.6	21.1	20.1	19.1
95°	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.1	24.0	23.0
97.5°	27.3	27.5	27.6	27.7	27.6	27.5	27.3	27.1	26.4	25.2	24.1
100°	27.8	28.0	28.2	28.2	28.2	28.0	27.8	27.6	27.0	25.8	24.6
102.5°	28.0	28.2	28.5	28.8	28.5	28.2	28.0	27.7	29.4	33.1	36.9
105°	28.8	29.0	29.4	29.6	29.4	29.0	28.8	28.4	41.5	68.0	94.5
107.5°	152.9	132.9	113.0	93.0	113.0	132.9	152.9	172.8	192.5	212.0	231.4
110°	249.3	227.9	206.5	185.1	206.5	227.9	249.3	270.7	283.9	288.8	293.7



TEST NUMBER: P331883-935

CATALOG NUMBER: S123DIP-S340D805U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	331.1	326.6	322.1	317.6	322.1	326.6	331.1	335.6	337.9	337.8	337.7
115°	394.0	394.6	395.2	395.8	395.2	394.6	394.0	393.4	392.4	390.9	389.3
117.5°	439.4	439.5	439.5	439.7	439.5	439.5	439.4	439.2	438.5	437.4	436.2
120°	469.8	469.8	469.8	469.8	469.8	469.8	469.8	469.8	469.2	468.0	466.8
122.5°	499.1	499.2	499.4	499.5	499.4	499.2	499.1	498.9	498.5	497.7	496.8
125°	540.3	540.6	540.9	541.2	540.9	540.6	540.3	540.0	539.7	539.4	539.1
127.5°	582.2	581.9	581.6	581.3	581.6	581.9	582.2	582.5	582.4	581.9	581.4
130°	608.0	607.8	607.4	607.2	607.4	607.8	608.0	608.4	608.2	607.6	607.0
132.5°	632.1	631.7	631.3	630.9	631.3	631.7	632.1	632.5	632.4	631.8	631.2
135°	668.4	668.0	667.5	667.1	667.5	668.0	668.4	668.8	668.8	668.4	668.0
137.5°	702.1	701.7	701.5	701.1	701.5	701.7	702.1	702.3	702.1	701.4	700.7
140°	722.5	722.2	721.9	721.6	721.9	722.2	722.5	722.8	722.6	722.0	721.4
142.5°	741.7	741.2	740.9	740.5	740.9	741.2	741.7	742.1	742.1	741.6	741.1
145°	769.4	769.4	769.4	769.4	769.4	769.4	769.4	769.4	769.2	769.0	768.6
147.5°	793.0	792.3	791.6	790.9	791.6	792.3	793.0	793.7	793.8	793.6	793.2
150°	808.4	808.0	807.5	807.1	807.5	808.0	808.4	808.9	808.9	808.7	808.3
152.5°	822.1	821.4	820.7	820.0	820.7	821.4	822.1	822.8	822.9	822.3	821.7
155°	840.8	839.8	839.0	838.0	839.0	839.8	840.8	841.6	841.7	840.9	840.2
157.5°	856.8	855.6	854.5	853.3	854.5	855.6	856.8	857.9	858.1	857.1	856.3
160°	866.1	865.0	864.0	863.0	864.0	865.0	866.1	867.1	867.2	866.3	865.4
162.5°	874.9	873.9	873.1	872.1	873.1	873.9	874.9	875.8	875.7	874.8	873.7
165°	886.3	885.2	884.2	883.1	884.2	885.2	886.3	887.3	887.3	886.1	884.8
167.5°	894.7	893.5	892.3	891.0	892.3	893.5	894.7	895.9	895.9	894.7	893.5
170°	899.5	898.3	897.2	896.0	897.2	898.3	899.5	900.7	900.7	899.5	898.3
172.5°	902.6	901.3	899.9	898.6	899.9	901.3	902.6	903.9	904.0	902.8	901.6
175°	906.3	905.1	903.9	902.7	903.9	905.1	906.3	907.4	907.5	906.5	905.4
177.5°	907.5	906.3	905.1	903.9	905.1	906.3	907.5	908.7	908.8	907.8	906.9
180°	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0



TEST NUMBER: P331883-935

CATALOG NUMBER: S123DIP-S340D805U935-4F0-1E-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°	6.7	6.6	6.0	5.9	5.3	5.1	4.6	4.4	4.3	4.0	4.0
90°	16.8	16.2	14.2	12.2	10.3	8.4	6.6	5.2	3.7	2.2	0.7
92.5°	18.2	17.2	15.8	14.3	12.8	11.4	10.8	11.3	11.7	12.1	12.5
95°	22.0	20.8	19.2	17.6	15.9	14.3	16.5	22.6	28.8	35.0	41.1
97.5°	22.9	21.7	32.5	43.2	54.0	64.7	71.5	74.3	77.1	79.8	82.5
100°	23.4	22.2	45.5	68.9	92.2	115.5	125.7	122.7	119.8	116.8	113.7
102.5°	40.6	44.3	69.7	95.2	120.8	146.3	157.9	155.8	153.6	151.4	149.3
105°	121.0	147.4	160.8	174.4	187.8	201.3	207.2	205.5	203.9	202.2	200.6
107.5°	250.8	270.2	268.0	266.0	263.8	261.7	259.9	258.6	257.4	256.1	254.7
110°	298.7	303.6	302.0	300.3	298.7	297.0	295.6	294.4	293.2	292.0	290.8



TEST NUMBER: P331883-935

CATALOG NUMBER: S123DIP-S340D805U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	337.6	337.5	335.9	334.2	332.6	330.9	329.6	328.5	327.4	326.3	325.3
115°	387.9	386.4	385.0	383.7	382.4	381.0	379.9	379.0	378.1	377.2	376.3
117.5°	435.0	433.8	433.1	432.4	431.7	431.0	430.1	429.0	427.9	426.8	425.7
120°	465.6	464.4	464.0	463.6	463.1	462.7	461.8	460.4	459.1	457.7	456.4
122.5°	496.0	495.2	494.6	494.0	493.4	492.8	492.1	490.9	489.8	488.7	487.6
125°	538.8	538.5	537.9	537.3	536.7	536.1	535.2	534.0	532.8	531.6	530.5
127.5°	581.0	580.5	579.8	579.1	578.3	577.6	576.7	575.5	574.3	573.1	571.9
130°	606.4	605.8	605.2	604.6	604.0	603.4	602.5	601.3	600.1	598.9	597.7
132.5°	630.7	630.1	629.6	629.0	628.6	628.1	627.3	626.1	624.9	623.7	622.5
135°	667.5	667.1	666.5	665.9	665.3	664.7	663.9	663.1	662.1	661.2	660.3
137.5°	700.0	699.2	698.9	698.6	698.3	697.9	697.2	696.0	694.9	693.8	692.7
140°	720.8	720.2	719.8	719.4	718.9	718.4	717.8	716.9	716.0	715.1	714.2
142.5°	740.6	740.2	739.7	739.3	738.8	738.4	737.7	736.8	735.9	735.0	734.1
145°	768.4	768.0	767.8	767.4	767.2	766.8	766.2	765.1	764.1	763.0	762.0
147.5°	793.0	792.6	792.4	792.0	791.8	791.5	791.0	790.3	789.6	788.9	788.2
150°	808.0	807.8	807.4	807.2	806.8	806.6	806.2	805.7	805.3	804.9	804.3
152.5°	821.2	820.7	820.5	820.3	820.1	819.9	819.8	819.6	819.3	819.2	818.9
155°	839.5	838.7	838.5	838.4	838.3	838.1	838.2	838.5	838.8	839.1	839.4
157.5°	855.4	854.5	854.6	854.8	854.9	855.1	855.1	855.1	855.2	855.2	855.2
160°	864.5	863.6	863.8	863.9	864.1	864.2	864.4	864.5	864.7	864.8	865.0
162.5°	872.7	871.7	871.8	872.0	872.1	872.3	872.5	873.0	873.3	873.7	874.1
165°	883.6	882.4	882.6	882.8	883.0	883.0	883.4	883.8	884.2	884.7	885.2
167.5°	892.3	891.0	891.0	891.0	891.0	891.0	891.4	892.0	892.6	893.2	893.8
170°	897.2	896.0	896.0	896.0	896.0	896.0	896.2	896.8	897.4	898.0	898.6
172.5°	900.3	899.1	899.1	898.9	898.8	898.7	899.0	899.7	900.4	901.1	901.8
175°	904.4	903.4	903.2	903.0	902.8	902.8	903.0	903.8	904.6	905.3	906.0
177.5°	905.9	904.9	904.8	904.7	904.6	904.5	904.7	905.3	905.9	906.5	907.1
180°	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0



TEST NUMBER: P331883-935

CATALOG NUMBER: S123DIP-S340D805U935-4F0-1E-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°	4.6	4.9	5.7	6.3	7.3	8.2	8.4	8.4	8.7	8.6	8.6
90°	2.2	3.7	5.2	6.6	8.4	10.3	12.2	14.2	16.2	16.8	17.4
92.5°	12.1	11.7	11.3	10.8	11.4	12.8	14.3	15.8	17.2	18.2	19.1
95°	35.0	28.8	22.6	16.5	14.3	15.9	17.6	19.2	20.8	22.0	23.0
97.5°	79.8	77.1	74.3	71.5	64.7	54.0	43.2	32.5	21.7	22.9	24.1
100°	116.8	119.8	122.7	125.7	115.5	92.2	68.9	45.5	22.2	23.4	24.6
102.5°	151.4	153.6	155.8	157.9	146.3	120.8	95.2	69.7	44.3	40.6	36.9
105°	202.2	203.9	205.5	207.2	201.3	187.8	174.4	160.8	147.4	121.0	94.5
107.5°	256.1	257.4	258.6	259.9	261.7	263.8	266.0	268.0	270.2	250.8	231.4
110°	292.0	293.2	294.4	295.6	297.0	298.7	300.3	302.0	303.6	298.7	293.7



TEST NUMBER: P331883-935

CATALOG NUMBER: S123DIP-S340D805U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	326.3	327.4	328.5	329.6	330.9	332.6	334.2	335.9	337.5	337.6	337.7
115°	377.2	378.1	379.0	379.9	381.0	382.4	383.7	385.0	386.4	387.9	389.3
117.5°	426.8	427.9	429.0	430.1	431.0	431.7	432.4	433.1	433.8	435.0	436.2
120°	457.7	459.1	460.4	461.8	462.7	463.1	463.6	464.0	464.4	465.6	466.8
122.5°	488.7	489.8	490.9	492.1	492.8	493.4	494.0	494.6	495.2	496.0	496.8
125°	531.6	532.8	534.0	535.2	536.1	536.7	537.3	537.9	538.5	538.8	539.1
127.5°	573.1	574.3	575.5	576.7	577.6	578.3	579.1	579.8	580.5	581.0	581.4
130°	598.9	600.1	601.3	602.5	603.4	604.0	604.6	605.2	605.8	606.4	607.0
132.5°	623.7	624.9	626.1	627.3	628.1	628.6	629.0	629.6	630.1	630.7	631.2
135°	661.2	662.1	663.1	663.9	664.7	665.3	665.9	666.5	667.1	667.5	668.0
137.5°	693.8	694.9	696.0	697.2	697.9	698.3	698.6	698.9	699.2	700.0	700.7
140°	715.1	716.0	716.9	717.8	718.4	718.9	719.4	719.8	720.2	720.8	721.4
142.5°	735.0	735.9	736.8	737.7	738.4	738.8	739.3	739.7	740.2	740.6	741.1
145°	763.0	764.1	765.1	766.2	766.8	767.2	767.4	767.8	768.0	768.4	768.6
147.5°	788.9	789.6	790.3	791.0	791.5	791.8	792.0	792.4	792.6	793.0	793.2
150°	804.9	805.3	805.7	806.2	806.6	806.8	807.2	807.4	807.8	808.0	808.3
152.5°	819.2	819.3	819.6	819.8	819.9	820.1	820.3	820.5	820.7	821.2	821.7
155°	839.1	838.8	838.5	838.2	838.1	838.3	838.4	838.5	838.7	839.5	840.2
157.5°	855.2	855.2	855.1	855.1	855.1	854.9	854.8	854.6	854.5	855.4	856.3
160°	864.8	864.7	864.5	864.4	864.2	864.1	863.9	863.8	863.6	864.5	865.4
162.5°	873.7	873.3	873.0	872.5	872.3	872.1	872.0	871.8	871.7	872.7	873.7
165°	884.7	884.2	883.8	883.4	883.0	883.0	882.8	882.6	882.4	883.6	884.8
167.5°	893.2	892.6	892.0	891.4	891.0	891.0	891.0	891.0	891.0	892.3	893.5
170°	898.0	897.4	896.8	896.2	896.0	896.0	896.0	896.0	896.0	897.2	898.3
172.5°	901.1	900.4	899.7	899.0	898.7	898.8	898.9	899.1	899.1	900.3	901.6
175°	905.3	904.6	903.8	903.0	902.8	902.8	903.0	903.2	903.4	904.4	905.4
177.5°	906.5	905.9	905.3	904.7	904.5	904.6	904.7	904.8	904.9	905.9	906.9
180°	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0



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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°	8.5	8.5	8.4	8.7	8.6	8.4	8.9
90°	17.9	18.5	19.0	19.3	19.6	19.9	20.2
92.5°	20.1	21.1	21.6	21.8	22.0	22.1	22.4
95°	24.0	25.1	25.6	25.6	25.6	25.6	25.6
97.5°	25.2	26.4	27.1	27.3	27.5	27.6	27.7
100°	25.8	27.0	27.6	27.8	28.0	28.2	28.2
102.5°	33.1	29.4	27.7	28.0	28.2	28.5	28.8
105°	68.0	41.5	28.4	28.8	29.0	29.4	29.6
107.5°	212.0	192.5	172.8	152.9	132.9	113.0	93.0
110°	288.8	283.9	270.7	249.3	227.9	206.5	185.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	337.8	337.9	335.6	331.1	326.6	322.1	317.6
115°	390.9	392.4	393.4	394.0	394.6	395.2	395.8
117.5°	437.4	438.5	439.2	439.4	439.5	439.5	439.7
120°	468.0	469.2	469.8	469.8	469.8	469.8	469.8
122.5°	497.7	498.5	498.9	499.1	499.2	499.4	499.5
125°	539.4	539.7	540.0	540.3	540.6	540.9	541.2
127.5°	581.9	582.4	582.5	582.2	581.9	581.6	581.3
130°	607.6	608.2	608.4	608.0	607.8	607.4	607.2
132.5°	631.8	632.4	632.5	632.1	631.7	631.3	630.9
135°	668.4	668.8	668.8	668.4	668.0	667.5	667.1
137.5°	701.4	702.1	702.3	702.1	701.7	701.5	701.1
140°	722.0	722.6	722.8	722.5	722.2	721.9	721.6
142.5°	741.6	742.1	742.1	741.7	741.2	740.9	740.5
145°	769.0	769.2	769.4	769.4	769.4	769.4	769.4
147.5°	793.6	793.8	793.7	793.0	792.3	791.6	790.9
150°	808.7	808.9	808.9	808.4	808.0	807.5	807.1
152.5°	822.3	822.9	822.8	822.1	821.4	820.7	820.0
155°	840.9	841.7	841.6	840.8	839.8	839.0	838.0
157.5°	857.1	858.1	857.9	856.8	855.6	854.5	853.3
160°	866.3	867.2	867.1	866.1	865.0	864.0	863.0
162.5°	874.8	875.7	875.8	874.9	873.9	873.1	872.1
165°	886.1	887.3	887.3	886.3	885.2	884.2	883.1
167.5°	894.7	895.9	895.9	894.7	893.5	892.3	891.0
170°	899.5	900.7	900.7	899.5	898.3	897.2	896.0
172.5°	902.8	904.0	903.9	902.6	901.3	899.9	898.6
175°	906.5	907.5	907.4	906.3	905.1	903.9	902.7
177.5°	907.8	908.8	908.7	907.5	906.3	905.1	903.9
180°	906.0	906.0	906.0	906.0	906.0	906.0	906.0

(END OF REPORT)