

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: P331883-940

Luminaire Tested: **S123DIP-S340D805U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331883-940
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-S340D805U940-4F0-1E-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: 4158.2 lumens
Efficiency: N/A
Efficacy: 133.3 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

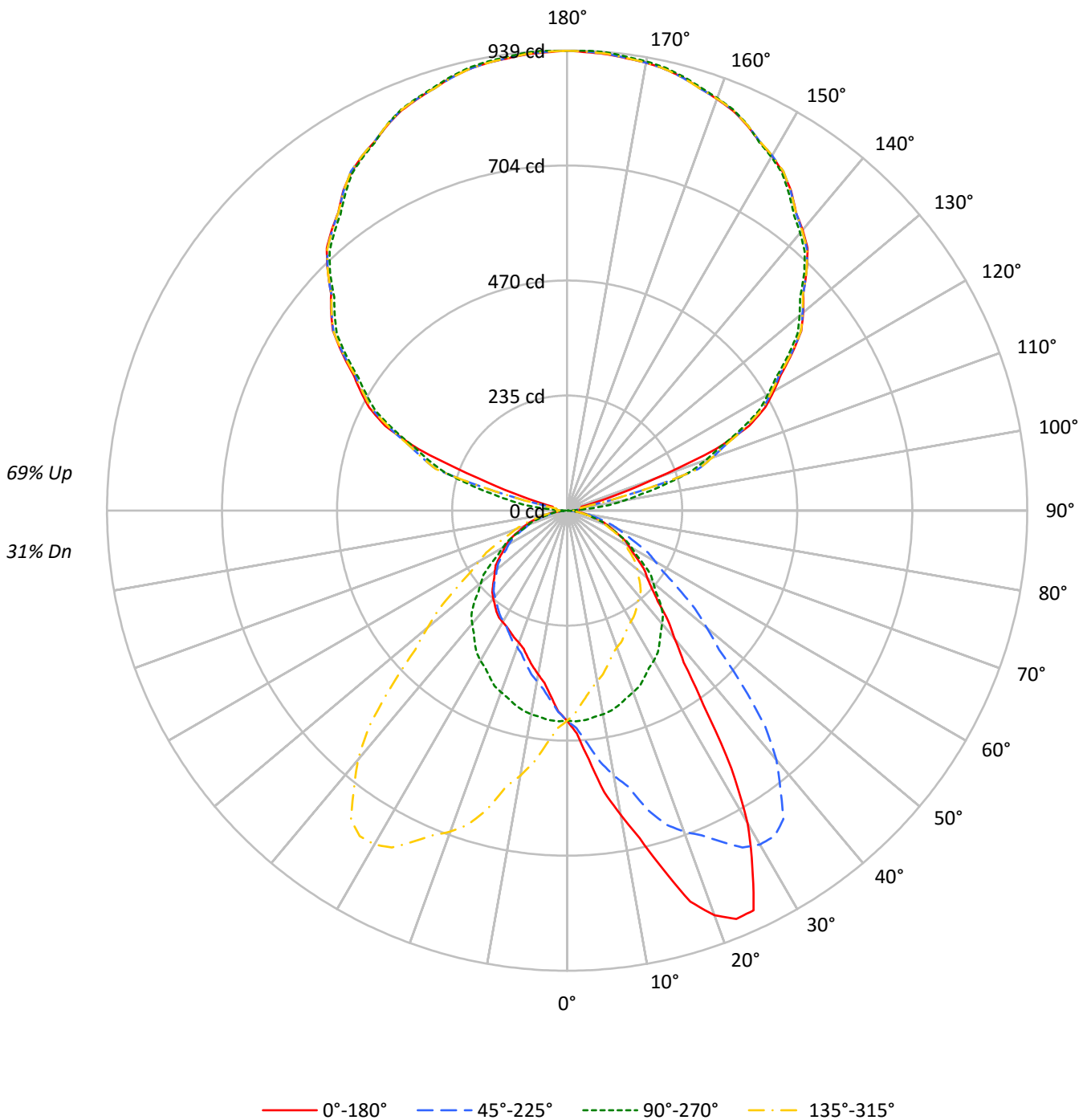
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4614	4614	4614	4614
5°	5503	4635	4107	4635
10°	6889	4612	3711	4612
15°	8449	4574	3455	4574
20°	10065	4517	3289	4517
25°	10688	4445	3252	4445
30°	9161	4395	3269	4395
35°	6370	4322	3303	4322
40°	4799	4235	3292	4235
45°	3984	4107	3252	4107
50°	3569	3848	3220	3848
55°	3337	3567	3181	3567
60°	3130	3272	3147	3272
65°	2942	2985	3049	2985
70°	2760	2656	2902	2656
75°	2470	2325	2662	2325
80°	2163	1909	2294	1909
85°	1692	1383	1544	1383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.2	1.0
10°-20°	135.4	3.3
20°-30°	227.3	5.5
30°-40°	257.4	6.2
40°-50°	230.8	5.6
50°-60°	186.3	4.5
60°-70°	129.8	3.1
70°-80°	68.2	1.6
80°-90°	19.3	0.5
90°-100°	34.1	0.8
100°-110°	162.6	3.9
110°-120°	390.6	9.4
120°-130°	497.3	12.0
130°-140°	531.4	12.8
140°-150°	496.9	11.9
150°-160°	400.8	9.6
160°-170°	258.7	6.2
170°-180°	89.2	2.1
0°-30°	405.0	9.7
0°-40°	662.4	15.9
0°-60°	1079.4	26.0
0°-90°	1296.7	31.2
90°-120°	587.3	14.1
90°-150°	2112.9	50.8
90°-180°	2862.0	68.8
0°-180°	4158.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	429	429	429	429	429	
5°	509	429	380	429	509	53
15°	758	410	310	410	758	219
25°	900	374	274	374	900	395
35°	485	329	251	329	485	315
45°	262	270	214	270	262	207
55°	178	190	170	190	178	160
65°	116	117	120	117	116	115
75°	59	56	64	56	59	64
85°	14	11	12	11	14	17
90°	21	1	21	1	21	10
95°	26	42	26	42	26	22
105°	31	208	31	208	31	70
115°	410	390	410	390	410	379
125°	560	549	560	549	560	501
135°	691	684	691	684	691	533
145°	797	789	797	789	797	497
155°	868	869	868	869	868	400
165°	915	917	915	917	915	258
175°	935	938	935	938	935	89
180°	938	938	938	938	938	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	455.0	454.7	453.9	454.5	453.2	451.4	451.2	449.5	444.7	444.4	443.1
5°	509.3	507.7	507.5	507.3	504.4	500.4	492.9	492.3	482.3	477.4	471.4
7.5°	579.8	580.6	577.6	575.0	566.1	560.2	552.1	541.9	529.7	517.2	509.0
10°	630.3	637.1	628.7	622.8	617.4	607.3	595.4	580.6	565.9	548.7	535.6
12.5°	684.5	687.8	686.1	680.6	672.3	656.7	635.8	619.5	605.9	577.2	565.6
15°	758.2	770.9	762.8	744.1	744.5	729.8	702.4	672.3	656.2	631.1	596.8
17.5°	836.9	838.4	835.0	819.4	809.0	788.7	763.4	734.6	702.1	671.7	635.3
20°	878.7	877.4	870.2	862.1	844.3	828.5	800.8	768.7	727.1	697.1	657.5
22.5°	902.0	899.9	896.4	889.7	874.9	857.9	833.0	797.9	758.3	717.1	671.3
25°	899.9	902.6	903.0	901.2	896.0	885.8	866.3	838.2	798.8	745.7	698.0
27.5°	818.5	822.3	833.4	843.3	854.3	865.5	864.0	850.1	820.8	775.1	716.7
30°	737.1	728.7	749.3	775.3	792.9	824.1	841.5	842.6	826.2	786.9	730.0
32.5°	624.0	633.2	642.3	674.2	712.8	747.8	782.6	810.5	813.7	787.6	737.8
35°	484.8	496.3	512.9	529.5	571.1	606.8	667.9	721.0	763.4	769.0	738.5
37.5°	390.7	396.4	406.9	423.6	450.7	493.1	540.3	607.5	669.0	714.6	716.6
40°	341.5	343.2	355.0	367.7	389.7	424.6	467.2	526.6	600.1	664.0	690.5
42.5°	304.6	308.3	313.3	325.5	343.0	369.3	408.8	458.0	525.4	598.8	650.8
45°	261.7	265.9	269.0	277.1	289.6	307.3	334.8	379.8	431.1	506.8	576.8
47.5°	233.4	233.7	236.0	242.2	250.7	263.9	283.5	312.3	359.4	420.9	492.8
50°	213.1	216.4	217.3	222.0	228.7	238.4	254.7	279.2	317.8	371.8	437.9
52.5°	198.9	199.8	202.2	205.6	211.4	219.0	233.1	252.3	282.6	328.7	389.4
55°	177.8	177.8	180.1	182.8	186.1	193.0	202.3	216.4	239.5	275.3	325.6
57.5°	158.4	159.4	161.0	161.8	164.7	169.2	177.0	187.8	204.9	232.5	272.4
60°	145.4	147.3	147.0	148.7	151.2	154.8	161.4	170.1	185.5	207.5	241.2
62.5°	134.1	134.0	133.9	136.0	138.4	141.8	146.2	153.6	166.7	186.3	214.9
65°	115.5	115.1	116.5	117.8	118.6	121.1	124.4	131.1	139.8	154.4	176.6
67.5°	99.0	97.7	98.5	99.0	100.4	102.4	105.5	109.6	116.5	128.1	144.9
70°	87.7	86.6	86.4	86.9	88.1	89.5	91.8	95.8	102.2	111.6	123.8
72.5°	76.1	75.3	75.3	76.2	76.8	77.8	79.4	82.9	88.1	95.1	106.6
75°	59.4	59.4	59.4	59.7	60.3	61.1	62.3	64.2	68.1	73.1	80.8
77.5°	44.5	44.5	44.2	44.2	45.1	45.5	45.7	47.5	49.8	53.1	58.7
80°	34.9	33.9	34.2	34.9	35.3	35.5	36.1	36.6	38.4	40.3	44.2
82.5°	25.9	25.1	25.1	26.1	26.2	26.4	27.0	27.6	28.3	30.0	32.1
85°	13.7	13.7	13.9	13.9	14.1	13.9	14.5	14.7	14.7	15.8	17.0
87.5°	9.2	8.7	8.9	9.0	8.7	8.8	8.8	8.9	8.9	9.0	8.7
90°	21.0	20.6	20.3	20.0	19.7	19.2	18.5	18.0	17.4	16.8	14.7
92.5°	23.2	22.9	22.7	22.6	22.4	21.8	20.8	19.8	18.8	17.8	16.3
95°	26.5	26.5	26.5	26.5	26.5	25.9	24.9	23.8	22.7	21.6	19.9
97.5°	28.7	28.5	28.4	28.3	28.1	27.4	26.1	25.0	23.7	22.5	33.6
100°	29.2	29.2	29.0	28.8	28.6	28.0	26.8	25.5	24.3	23.0	47.2
102.5°	29.9	29.5	29.2	29.0	28.7	30.5	34.3	38.2	42.0	45.8	72.2
105°	30.7	30.4	30.1	29.8	29.4	43.0	70.4	97.8	125.3	152.7	166.6
107.5°	96.3	117.0	137.7	158.4	179.0	199.4	219.5	239.6	259.8	279.8	277.6
110°	191.7	213.8	236.0	258.2	280.4	294.0	299.1	304.2	309.3	314.4	312.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	329.0	333.6	338.2	343.0	347.6	349.9	349.8	349.7	349.6	349.6	347.9
115°	409.9	409.3	408.7	408.0	407.4	406.4	404.8	403.2	401.7	400.2	398.8
117.5°	455.4	455.2	455.1	455.0	454.9	454.1	453.0	451.7	450.5	449.2	448.5
120°	486.6	486.6	486.6	486.6	486.6	486.0	484.7	483.5	482.2	481.0	480.5
122.5°	517.3	517.2	517.0	516.9	516.7	516.3	515.4	514.5	513.7	512.8	512.2
125°	560.5	560.2	559.9	559.5	559.3	558.9	558.7	558.3	558.0	557.7	557.1
127.5°	602.1	602.4	602.7	603.0	603.2	603.2	602.7	602.2	601.7	601.2	600.5
130°	628.8	629.1	629.5	629.7	630.1	629.9	629.3	628.7	628.0	627.4	626.8
132.5°	653.4	653.8	654.2	654.7	655.1	655.0	654.3	653.7	653.2	652.6	652.0
135°	690.9	691.3	691.8	692.2	692.7	692.7	692.2	691.8	691.3	690.9	690.3
137.5°	726.1	726.5	726.7	727.1	727.4	727.2	726.4	725.7	725.0	724.2	723.8
140°	747.3	747.6	748.0	748.2	748.6	748.4	747.8	747.2	746.5	745.9	745.5
142.5°	766.9	767.3	767.7	768.1	768.6	768.6	768.0	767.6	767.0	766.6	766.1
145°	796.8	796.8	796.8	796.8	796.8	796.7	796.4	796.0	795.8	795.4	795.1
147.5°	819.1	819.8	820.6	821.3	822.0	822.2	821.9	821.5	821.3	820.9	820.6
150°	835.9	836.3	836.8	837.2	837.8	837.8	837.5	837.1	836.9	836.6	836.2
152.5°	849.3	850.0	850.7	851.4	852.1	852.2	851.6	851.0	850.5	850.0	849.8
155°	867.9	868.9	869.8	870.8	871.6	871.7	870.9	870.2	869.4	868.6	868.4
157.5°	883.7	884.9	886.1	887.3	888.5	888.7	887.7	886.8	885.9	884.9	885.1
160°	893.8	894.8	895.9	897.0	898.0	898.1	897.2	896.3	895.4	894.4	894.6
162.5°	903.2	904.2	905.1	906.1	907.0	907.0	906.0	904.9	903.8	902.8	902.9
165°	914.6	915.7	916.8	917.9	919.0	918.9	917.7	916.4	915.2	913.9	914.1
167.5°	922.8	924.1	925.3	926.6	927.8	927.8	926.6	925.3	924.1	922.8	922.8
170°	927.9	929.2	930.3	931.6	932.8	932.8	931.6	930.3	929.2	927.9	927.9
172.5°	930.7	932.0	933.4	934.8	936.1	936.2	935.0	933.7	932.5	931.2	931.1
175°	934.9	936.1	937.4	938.6	939.8	939.9	938.8	937.7	936.7	935.6	935.4
177.5°	936.1	937.4	938.6	939.9	941.1	941.2	940.2	939.2	938.3	937.2	937.1
180°	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	442.0	440.8	439.4	437.1	435.1	432.3	431.4	430.4	427.4	424.8	422.8
5°	469.0	464.0	456.8	450.1	444.8	437.5	433.4	429.0	422.8	417.1	412.6
7.5°	497.3	487.5	476.2	464.0	452.6	441.7	432.8	424.9	416.2	408.0	401.4
10°	519.8	505.6	489.8	472.8	458.3	444.2	432.3	422.0	410.7	400.9	392.8
12.5°	545.4	524.4	502.7	482.0	464.8	445.1	430.8	417.6	404.8	393.2	384.1
15°	575.6	549.0	523.3	494.8	468.7	444.2	427.1	410.5	395.7	383.7	372.0
17.5°	603.2	573.1	539.1	504.5	473.0	443.9	420.1	401.3	382.8	368.1	356.5
20°	618.8	584.6	546.2	510.2	475.3	442.9	416.7	394.3	374.3	358.7	345.7
22.5°	632.3	592.2	552.4	514.0	475.1	440.2	410.5	387.4	365.9	350.6	336.7
25°	646.3	598.2	558.4	513.4	469.9	433.7	400.6	374.3	352.8	334.8	320.6
27.5°	658.3	597.9	550.5	502.0	461.6	425.4	389.9	361.9	338.9	319.5	305.0
30°	666.2	598.7	542.4	494.5	453.7	416.3	381.8	353.6	329.5	309.8	296.0
32.5°	671.2	598.2	534.9	483.8	441.0	408.0	373.0	343.8	319.0	299.6	286.4
35°	674.1	594.5	522.0	461.8	420.7	388.4	359.2	328.9	302.9	284.8	269.8
37.5°	668.2	586.8	507.1	440.6	395.6	363.9	339.2	313.4	288.6	268.7	255.7
40°	659.2	581.8	495.4	425.6	378.3	347.8	326.8	301.4	276.9	258.0	245.9
42.5°	641.7	571.8	482.7	409.0	360.3	329.8	310.5	289.3	266.1	248.3	236.3
45°	599.1	549.7	463.4	384.1	333.9	302.3	285.3	269.8	248.9	231.7	221.2
47.5°	540.0	516.5	435.7	357.8	306.1	275.8	258.1	245.8	230.4	216.4	206.5
50°	499.0	489.2	417.0	339.8	287.8	258.0	240.9	229.8	218.7	204.8	195.7
52.5°	451.7	457.6	395.0	321.3	268.9	239.7	223.7	214.8	204.8	193.3	185.4
55°	385.0	406.7	357.1	290.0	240.9	213.1	198.0	190.1	184.2	175.8	168.9
57.5°	322.5	350.3	316.1	257.8	213.5	189.5	175.0	166.4	162.6	158.2	152.8
60°	285.4	312.8	286.9	236.2	195.1	172.2	159.3	152.0	148.3	145.2	140.6
62.5°	252.4	280.1	258.3	214.3	176.9	155.8	144.5	137.4	134.6	133.0	129.0
65°	206.9	230.8	216.2	180.1	151.1	132.3	122.2	117.2	114.5	113.9	111.4
67.5°	168.4	186.5	176.0	149.4	126.5	110.4	101.7	97.5	95.4	95.1	93.3
70°	143.1	160.2	152.0	128.0	108.3	95.6	88.1	84.4	83.1	82.9	81.9
72.5°	123.5	135.4	128.9	108.9	93.6	82.1	76.6	72.7	71.3	71.6	70.9
75°	91.4	100.3	96.6	82.7	70.4	63.0	58.4	55.9	54.7	55.3	54.4
77.5°	65.8	71.4	68.0	58.4	50.8	45.5	42.1	40.6	39.4	39.4	39.1
80°	49.7	53.0	51.1	45.3	39.1	34.5	31.7	30.8	30.1	29.9	29.7
82.5°	35.4	38.2	35.9	32.0	27.7	25.0	23.5	22.1	21.7	21.8	21.6
85°	17.8	18.9	18.1	15.6	13.9	12.7	11.9	11.2	10.8	11.0	10.6
87.5°	8.6	8.5	7.6	6.5	5.9	5.1	4.7	4.1	4.1	4.5	4.5
90°	12.7	10.7	8.6	6.9	5.4	3.8	2.2	0.7	2.2	3.8	5.4
92.5°	14.8	13.3	11.8	11.2	11.7	12.1	12.6	12.9	12.6	12.1	11.7
95°	18.2	16.5	14.8	17.1	23.5	29.8	36.2	42.5	36.2	29.8	23.5
97.5°	44.8	55.9	67.1	74.1	77.0	79.8	82.7	85.4	82.7	79.8	77.0
100°	71.3	95.5	119.7	130.2	127.1	124.0	120.9	117.8	120.9	124.0	127.1
102.5°	98.6	125.1	151.5	163.5	161.3	159.1	156.9	154.6	156.9	159.1	161.3
105°	180.6	194.5	208.5	214.5	212.9	211.2	209.5	207.8	209.5	211.2	212.9
107.5°	275.4	273.2	271.0	269.2	267.9	266.5	265.2	263.8	265.2	266.5	267.9
110°	311.0	309.3	307.6	306.1	304.9	303.6	302.4	301.1	302.4	303.6	304.9



TEST NUMBER: P331883-940

CATALOG NUMBER: S123DIP-S340D805U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	346.2	344.5	342.7	341.3	340.2	339.1	338.0	336.9	338.0	339.1	340.2
115°	397.3	396.0	394.6	393.4	392.5	391.6	390.7	389.7	390.7	391.6	392.5
117.5°	447.8	447.1	446.4	445.4	444.3	443.2	442.0	440.9	442.0	443.2	444.3
120°	480.1	479.7	479.2	478.2	476.8	475.5	474.0	472.7	474.0	475.5	476.8
122.5°	511.7	511.0	510.4	509.6	508.5	507.3	506.1	505.0	506.1	507.3	508.5
125°	556.4	555.9	555.3	554.3	553.0	551.8	550.5	549.4	550.5	551.8	553.0
127.5°	599.8	599.0	598.2	597.3	596.0	594.8	593.5	592.3	593.5	594.8	596.0
130°	626.2	625.5	624.9	624.0	622.8	621.5	620.3	619.0	620.3	621.5	622.8
132.5°	651.5	651.0	650.5	649.7	648.5	647.2	646.0	644.7	646.0	647.2	648.5
135°	689.6	689.0	688.4	687.6	686.7	685.7	684.8	683.9	684.8	685.7	686.7
137.5°	723.5	723.2	722.8	722.0	720.9	719.7	718.5	717.4	718.5	719.7	720.9
140°	745.0	744.6	744.0	743.4	742.4	741.5	740.6	739.7	740.6	741.5	742.4
142.5°	765.6	765.2	764.7	764.0	763.1	762.1	761.3	760.3	761.3	762.1	763.1
145°	794.8	794.5	794.2	793.5	792.4	791.3	790.2	789.2	790.2	791.3	792.4
147.5°	820.3	820.0	819.7	819.2	818.5	817.8	817.1	816.4	817.1	817.8	818.5
150°	836.0	835.6	835.4	834.9	834.5	834.0	833.6	833.0	833.6	834.0	834.5
152.5°	849.5	849.4	849.2	849.0	848.8	848.6	848.4	848.1	848.4	848.6	848.8
155°	868.3	868.2	868.0	868.1	868.4	868.7	869.1	869.3	869.1	868.7	868.4
157.5°	885.3	885.4	885.6	885.6	885.6	885.7	885.7	885.7	885.7	885.7	885.6
160°	894.7	894.9	895.0	895.2	895.4	895.5	895.6	895.8	895.6	895.5	895.4
162.5°	903.1	903.2	903.4	903.7	904.1	904.5	904.9	905.3	904.9	904.5	904.1
165°	914.3	914.4	914.5	914.9	915.3	915.8	916.2	916.8	916.2	915.8	915.3
167.5°	922.8	922.8	922.8	923.2	923.8	924.4	925.1	925.7	925.1	924.4	923.8
170°	927.9	927.9	927.9	928.2	928.8	929.4	930.1	930.7	930.1	929.4	928.8
172.5°	930.9	930.9	930.8	931.0	931.7	932.6	933.3	934.0	933.3	932.6	931.7
175°	935.2	935.0	935.0	935.2	936.0	936.8	937.5	938.3	937.5	936.8	936.0
177.5°	937.0	936.8	936.7	937.0	937.6	938.3	938.9	939.4	938.9	938.3	937.6
180°	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3



TEST NUMBER: P331883-940

CATALOG NUMBER: S123DIP-S340D805U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	421.6	420.4	418.8	416.3	414.3	411.2	411.2	411.6	411.6	411.5	411.2
5°	408.8	405.7	402.0	397.6	393.1	388.4	387.6	385.9	384.8	383.9	382.9
7.5°	395.3	389.8	384.3	378.3	372.6	368.1	364.9	362.2	360.5	358.6	357.3
10°	386.2	379.3	372.9	366.5	359.4	353.7	350.3	347.8	345.9	344.2	343.4
12.5°	375.4	367.6	360.4	354.3	346.6	340.8	337.4	336.3	334.1	330.6	328.8
15°	359.6	352.3	343.8	334.5	330.7	323.7	319.7	317.8	316.6	313.9	313.1
17.5°	346.1	336.6	327.0	320.0	313.1	307.4	305.1	302.8	301.2	299.0	298.3
20°	335.3	326.8	318.1	310.6	303.3	297.0	295.2	293.6	291.9	290.9	290.0
22.5°	324.3	315.8	308.5	301.6	293.8	289.7	287.8	285.9	284.7	284.0	283.2
25°	308.9	301.4	293.3	287.1	280.9	278.1	276.9	275.9	275.0	274.0	273.8
27.5°	295.2	287.0	280.4	274.6	270.1	267.9	266.6	266.2	266.4	266.7	267.0
30°	284.8	277.3	272.0	267.0	262.8	260.7	260.5	260.5	261.4	261.5	262.0
32.5°	275.4	269.2	263.8	259.0	255.8	254.4	255.2	255.2	255.8	256.4	257.2
35°	261.5	256.1	252.0	247.8	245.1	245.8	246.2	246.6	247.6	248.9	249.7
37.5°	248.3	243.7	239.3	236.1	234.9	235.9	237.0	237.8	239.1	240.0	240.9
40°	238.9	235.3	231.2	228.3	228.7	229.3	230.2	231.2	232.3	232.9	233.7
42.5°	230.1	226.4	223.2	220.8	221.4	222.2	222.7	223.2	224.4	225.6	226.0
45°	216.7	213.7	210.9	209.4	209.8	210.3	210.6	211.2	212.3	213.1	213.4
47.5°	201.6	199.6	197.6	196.2	196.9	196.7	197.2	198.6	198.9	199.4	200.5
50°	192.0	190.1	187.8	187.3	187.3	187.3	187.6	189.2	189.2	190.1	190.9
52.5°	181.3	180.1	178.7	177.9	177.5	177.5	178.4	179.2	179.6	180.7	181.6
55°	165.6	164.3	163.1	162.5	162.0	162.5	164.1	164.5	165.6	166.2	166.8
57.5°	149.2	148.2	147.2	146.9	146.8	147.3	148.2	149.5	149.7	151.7	152.6
60°	138.4	136.9	136.1	136.1	135.6	137.5	137.1	139.2	139.6	140.9	142.3
62.5°	127.2	125.3	124.9	124.9	125.6	126.1	126.6	127.5	128.7	130.2	131.3
65°	109.2	108.3	109.7	109.5	109.1	110.3	110.3	111.4	112.6	114.0	116.4
67.5°	92.3	91.8	91.8	91.8	92.5	93.2	93.8	94.7	96.2	97.7	99.2
70°	80.8	81.4	80.4	81.2	81.9	82.0	82.5	83.7	85.3	86.4	88.1
72.5°	69.6	69.6	69.7	70.1	70.7	71.1	71.5	72.9	74.7	75.6	77.0
75°	53.6	53.4	54.0	54.0	55.0	55.5	55.9	56.5	58.1	59.4	60.5
77.5°	39.1	39.4	39.2	39.9	39.7	39.8	41.0	41.6	41.8	44.3	44.9
80°	29.5	29.9	30.1	30.3	30.5	30.1	31.6	32.2	32.2	33.6	34.7
82.5°	21.2	21.4	21.9	22.2	22.2	22.6	22.7	23.2	23.7	24.3	25.7
85°	10.6	11.2	11.4	11.2	11.4	11.0	11.6	11.9	12.0	12.0	12.0
87.5°	4.7	5.3	5.4	6.1	6.2	6.9	7.0	6.8	6.9	7.5	7.0
90°	6.9	8.6	10.7	12.7	14.7	16.8	17.4	18.0	18.5	19.2	19.7
92.5°	11.2	11.8	13.3	14.8	16.3	17.8	18.8	19.8	20.8	21.8	22.4
95°	17.1	14.8	16.5	18.2	19.9	21.6	22.7	23.8	24.9	25.9	26.5
97.5°	74.1	67.1	55.9	44.8	33.6	22.5	23.7	25.0	26.1	27.4	28.1
100°	130.2	119.7	95.5	71.3	47.2	23.0	24.3	25.5	26.8	28.0	28.6
102.5°	163.5	151.5	125.1	98.6	72.2	45.8	42.0	38.2	34.3	30.5	28.7
105°	214.5	208.5	194.5	180.6	166.6	152.7	125.3	97.8	70.4	43.0	29.4
107.5°	269.2	271.0	273.2	275.4	277.6	279.8	259.8	239.6	219.5	199.4	179.0
110°	306.1	307.6	309.3	311.0	312.7	314.4	309.3	304.2	299.1	294.0	280.4



TEST NUMBER: P331883-940

CATALOG NUMBER: S123DIP-S340D805U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	341.3	342.7	344.5	346.2	347.9	349.6	349.6	349.7	349.8	349.9	347.6
115°	393.4	394.6	396.0	397.3	398.8	400.2	401.7	403.2	404.8	406.4	407.4
117.5°	445.4	446.4	447.1	447.8	448.5	449.2	450.5	451.7	453.0	454.1	454.9
120°	478.2	479.2	479.7	480.1	480.5	481.0	482.2	483.5	484.7	486.0	486.6
122.5°	509.6	510.4	511.0	511.7	512.2	512.8	513.7	514.5	515.4	516.3	516.7
125°	554.3	555.3	555.9	556.4	557.1	557.7	558.0	558.3	558.7	558.9	559.3
127.5°	597.3	598.2	599.0	599.8	600.5	601.2	601.7	602.2	602.7	603.2	603.2
130°	624.0	624.9	625.5	626.2	626.8	627.4	628.0	628.7	629.3	629.9	630.1
132.5°	649.7	650.5	651.0	651.5	652.0	652.6	653.2	653.7	654.3	655.0	655.1
135°	687.6	688.4	689.0	689.6	690.3	690.9	691.3	691.8	692.2	692.7	692.7
137.5°	722.0	722.8	723.2	723.5	723.8	724.2	725.0	725.7	726.4	727.2	727.4
140°	743.4	744.0	744.6	745.0	745.5	745.9	746.5	747.2	747.8	748.4	748.6
142.5°	764.0	764.7	765.2	765.6	766.1	766.6	767.0	767.6	768.0	768.6	768.6
145°	793.5	794.2	794.5	794.8	795.1	795.4	795.8	796.0	796.4	796.7	796.8
147.5°	819.2	819.7	820.0	820.3	820.6	820.9	821.3	821.5	821.9	822.2	822.0
150°	834.9	835.4	835.6	836.0	836.2	836.6	836.9	837.1	837.5	837.8	837.8
152.5°	849.0	849.2	849.4	849.5	849.8	850.0	850.5	851.0	851.6	852.2	852.1
155°	868.1	868.0	868.2	868.3	868.4	868.6	869.4	870.2	870.9	871.7	871.6
157.5°	885.6	885.6	885.4	885.3	885.1	884.9	885.9	886.8	887.7	888.7	888.5
160°	895.2	895.0	894.9	894.7	894.6	894.4	895.4	896.3	897.2	898.1	898.0
162.5°	903.7	903.4	903.2	903.1	902.9	902.8	903.8	904.9	906.0	907.0	907.0
165°	914.9	914.5	914.4	914.3	914.1	913.9	915.2	916.4	917.7	918.9	919.0
167.5°	923.2	922.8	922.8	922.8	922.8	922.8	924.1	925.3	926.6	927.8	927.8
170°	928.2	927.9	927.9	927.9	927.9	927.9	929.2	930.3	931.6	932.8	932.8
172.5°	931.0	930.8	930.9	930.9	931.1	931.2	932.5	933.7	935.0	936.2	936.1
175°	935.2	935.0	935.0	935.2	935.4	935.6	936.7	937.7	938.8	939.9	939.8
177.5°	937.0	936.7	936.8	937.0	937.1	937.2	938.3	939.2	940.2	941.2	941.1
180°	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3



TEST NUMBER: P331883-940

CATALOG NUMBER: S123DIP-S340D805U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	410.0	409.8	411.0	410.2	411.0	409.8	410.0	411.2	411.5	411.6	411.6
5°	381.7	382.3	380.1	380.1	380.1	382.3	381.7	382.9	383.9	384.8	385.9
7.5°	356.3	355.4	355.5	354.4	355.5	355.4	356.3	357.3	358.6	360.5	362.2
10°	340.9	339.7	339.2	339.5	339.2	339.7	340.9	343.4	344.2	345.9	347.8
12.5°	328.1	327.9	325.1	325.1	325.1	327.9	328.1	328.8	330.6	334.1	336.3
15°	313.1	309.2	308.7	310.0	308.7	309.2	313.1	313.1	313.9	316.6	317.8
17.5°	298.0	295.9	296.0	295.4	296.0	295.9	298.0	298.3	299.0	301.2	302.8
20°	290.0	288.7	288.6	287.1	288.6	288.7	290.0	290.0	290.9	291.9	293.6
22.5°	282.7	282.3	282.4	280.8	282.4	282.3	282.7	283.2	284.0	284.7	285.9
25°	273.6	274.6	273.8	273.8	273.8	274.6	273.6	273.8	274.0	275.0	275.9
27.5°	267.4	267.4	267.0	267.0	267.0	267.4	267.4	267.0	266.7	266.4	266.2
30°	262.8	262.6	263.0	263.0	263.0	262.6	262.8	262.0	261.5	261.4	260.5
32.5°	258.2	258.4	258.5	258.7	258.5	258.4	258.2	257.2	256.4	255.8	255.2
35°	250.9	251.2	251.8	251.4	251.8	251.2	250.9	249.7	248.9	247.6	246.6
37.5°	241.2	242.2	242.0	242.3	242.0	242.2	241.2	240.9	240.0	239.1	237.8
40°	233.9	234.5	234.3	234.3	234.3	234.5	233.9	233.7	232.9	232.3	231.2
42.5°	226.4	226.9	226.3	226.0	226.3	226.9	226.4	226.0	225.6	224.4	223.2
45°	214.2	213.7	214.4	213.6	214.4	213.7	214.2	213.4	213.1	212.3	211.2
47.5°	200.5	200.9	201.1	201.7	201.1	200.9	200.5	200.5	199.4	198.9	198.6
50°	191.4	192.6	192.6	192.3	192.6	192.6	191.4	190.9	190.1	189.2	189.2
52.5°	182.4	182.9	183.8	183.7	183.8	182.9	182.4	181.6	180.7	179.6	179.2
55°	168.4	168.9	169.3	169.5	169.3	168.9	168.4	166.8	166.2	165.6	164.5
57.5°	154.1	153.9	154.9	155.2	154.9	153.9	154.1	152.6	151.7	149.7	149.5
60°	143.9	143.9	145.6	146.2	145.6	143.9	143.9	142.3	140.9	139.6	139.2
62.5°	133.1	133.8	135.5	134.6	135.5	133.8	133.1	131.3	130.2	128.7	127.5
65°	117.3	119.0	118.9	119.7	118.9	119.0	117.3	116.4	114.0	112.6	111.4
67.5°	100.9	101.9	103.4	103.5	103.4	101.9	100.9	99.2	97.7	96.2	94.7
70°	89.7	90.8	91.6	92.2	91.6	90.8	89.7	88.1	86.4	85.3	83.7
72.5°	78.9	79.5	81.5	80.6	81.5	79.5	78.9	77.0	75.6	74.7	72.9
75°	61.9	63.4	64.6	64.0	64.6	63.4	61.9	60.5	59.4	58.1	56.5
77.5°	45.7	47.3	47.8	47.3	47.8	47.3	45.7	44.9	44.3	41.8	41.6
80°	36.1	35.9	37.2	37.0	37.2	35.9	36.1	34.7	33.6	32.2	32.2
82.5°	26.5	26.3	26.8	27.0	26.8	26.3	26.5	25.7	24.3	23.7	23.2
85°	12.8	13.5	12.7	12.5	12.7	13.5	12.8	12.0	12.0	12.0	11.9
87.5°	7.0	7.0	7.0	6.9	7.0	7.0	7.0	7.0	7.5	6.9	6.8
90°	20.0	20.3	20.6	21.0	20.6	20.3	20.0	19.7	19.2	18.5	18.0
92.5°	22.6	22.7	22.9	23.2	22.9	22.7	22.6	22.4	21.8	20.8	19.8
95°	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	25.9	24.9	23.8
97.5°	28.3	28.4	28.5	28.7	28.5	28.4	28.3	28.1	27.4	26.1	25.0
100°	28.8	29.0	29.2	29.2	29.2	29.0	28.8	28.6	28.0	26.8	25.5
102.5°	29.0	29.2	29.5	29.9	29.5	29.2	29.0	28.7	30.5	34.3	38.2
105°	29.8	30.1	30.4	30.7	30.4	30.1	29.8	29.4	43.0	70.4	97.8
107.5°	158.4	137.7	117.0	96.3	117.0	137.7	158.4	179.0	199.4	219.5	239.6
110°	258.2	236.0	213.8	191.7	213.8	236.0	258.2	280.4	294.0	299.1	304.2



TEST NUMBER: P331883-940

CATALOG NUMBER: S123DIP-S340D805U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	343.0	338.2	333.6	329.0	333.6	338.2	343.0	347.6	349.9	349.8	349.7
115°	408.0	408.7	409.3	409.9	409.3	408.7	408.0	407.4	406.4	404.8	403.2
117.5°	455.0	455.1	455.2	455.4	455.2	455.1	455.0	454.9	454.1	453.0	451.7
120°	486.6	486.6	486.6	486.6	486.6	486.6	486.6	486.6	486.0	484.7	483.5
122.5°	516.9	517.0	517.2	517.3	517.2	517.0	516.9	516.7	516.3	515.4	514.5
125°	559.5	559.9	560.2	560.5	560.2	559.9	559.5	559.3	558.9	558.7	558.3
127.5°	603.0	602.7	602.4	602.1	602.4	602.7	603.0	603.2	603.2	602.7	602.2
130°	629.7	629.5	629.1	628.8	629.1	629.5	629.7	630.1	629.9	629.3	628.7
132.5°	654.7	654.2	653.8	653.4	653.8	654.2	654.7	655.1	655.0	654.3	653.7
135°	692.2	691.8	691.3	690.9	691.3	691.8	692.2	692.7	692.7	692.2	691.8
137.5°	727.1	726.7	726.5	726.1	726.5	726.7	727.1	727.4	727.2	726.4	725.7
140°	748.2	748.0	747.6	747.3	747.6	748.0	748.2	748.6	748.4	747.8	747.2
142.5°	768.1	767.7	767.3	766.9	767.3	767.7	768.1	768.6	768.6	768.0	767.6
145°	796.8	796.8	796.8	796.8	796.8	796.8	796.8	796.8	796.7	796.4	796.0
147.5°	821.3	820.6	819.8	819.1	819.8	820.6	821.3	822.0	822.2	821.9	821.5
150°	837.2	836.8	836.3	835.9	836.3	836.8	837.2	837.8	837.8	837.5	837.1
152.5°	851.4	850.7	850.0	849.3	850.0	850.7	851.4	852.1	852.2	851.6	851.0
155°	870.8	869.8	868.9	867.9	868.9	869.8	870.8	871.6	871.7	870.9	870.2
157.5°	887.3	886.1	884.9	883.7	884.9	886.1	887.3	888.5	888.7	887.7	886.8
160°	897.0	895.9	894.8	893.8	894.8	895.9	897.0	898.0	898.1	897.2	896.3
162.5°	906.1	905.1	904.2	903.2	904.2	905.1	906.1	907.0	907.0	906.0	904.9
165°	917.9	916.8	915.7	914.6	915.7	916.8	917.9	919.0	918.9	917.7	916.4
167.5°	926.6	925.3	924.1	922.8	924.1	925.3	926.6	927.8	927.8	926.6	925.3
170°	931.6	930.3	929.2	927.9	929.2	930.3	931.6	932.8	932.8	931.6	930.3
172.5°	934.8	933.4	932.0	930.7	932.0	933.4	934.8	936.1	936.2	935.0	933.7
175°	938.6	937.4	936.1	934.9	936.1	937.4	938.6	939.8	939.9	938.8	937.7
177.5°	939.9	938.6	937.4	936.1	937.4	938.6	939.9	941.1	941.2	940.2	939.2
180°	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3



TEST NUMBER: P331883-940

CATALOG NUMBER: S123DIP-S340D805U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	411.2	411.2	414.3	416.3	418.8	420.4	421.6	422.8	424.8	427.4	430.4
5°	387.6	388.4	393.1	397.6	402.0	405.7	408.8	412.6	417.1	422.8	429.0
7.5°	364.9	368.1	372.6	378.3	384.3	389.8	395.3	401.4	408.0	416.2	424.9
10°	350.3	353.7	359.4	366.5	372.9	379.3	386.2	392.8	400.9	410.7	422.0
12.5°	337.4	340.8	346.6	354.3	360.4	367.6	375.4	384.1	393.2	404.8	417.6
15°	319.7	323.7	330.7	334.5	343.8	352.3	359.6	372.0	383.7	395.7	410.5
17.5°	305.1	307.4	313.1	320.0	327.0	336.6	346.1	356.5	368.1	382.8	401.3
20°	295.2	297.0	303.3	310.6	318.1	326.8	335.3	345.7	358.7	374.3	394.3
22.5°	287.8	289.7	293.8	301.6	308.5	315.8	324.3	336.7	350.6	365.9	387.4
25°	276.9	278.1	280.9	287.1	293.3	301.4	308.9	320.6	334.8	352.8	374.3
27.5°	266.6	267.9	270.1	274.6	280.4	287.0	295.2	305.0	319.5	338.9	361.9
30°	260.5	260.7	262.8	267.0	272.0	277.3	284.8	296.0	309.8	329.5	353.6
32.5°	255.2	254.4	255.8	259.0	263.8	269.2	275.4	286.4	299.6	319.0	343.8
35°	246.2	245.8	245.1	247.8	252.0	256.1	261.5	269.8	284.8	302.9	328.9
37.5°	237.0	235.9	234.9	236.1	239.3	243.7	248.3	255.7	268.7	288.6	313.4
40°	230.2	229.3	228.7	228.3	231.2	235.3	238.9	245.9	258.0	276.9	301.4
42.5°	222.7	222.2	221.4	220.8	223.2	226.4	230.1	236.3	248.3	266.1	289.3
45°	210.6	210.3	209.8	209.4	210.9	213.7	216.7	221.2	231.7	248.9	269.8
47.5°	197.2	196.7	196.9	196.2	197.6	199.6	201.6	206.5	216.4	230.4	245.8
50°	187.6	187.3	187.3	187.3	187.8	190.1	192.0	195.7	204.8	218.7	229.8
52.5°	178.4	177.5	177.5	177.9	178.7	180.1	181.3	185.4	193.3	204.8	214.8
55°	164.1	162.5	162.0	162.5	163.1	164.3	165.6	168.9	175.8	184.2	190.1
57.5°	148.2	147.3	146.8	146.9	147.2	148.2	149.2	152.8	158.2	162.6	166.4
60°	137.1	137.5	135.6	136.1	136.1	136.9	138.4	140.6	145.2	148.3	152.0
62.5°	126.6	126.1	125.6	124.9	124.9	125.3	127.2	129.0	133.0	134.6	137.4
65°	110.3	110.3	109.1	109.5	109.7	108.3	109.2	111.4	113.9	114.5	117.2
67.5°	93.8	93.2	92.5	91.8	91.8	91.8	92.3	93.3	95.1	95.4	97.5
70°	82.5	82.0	81.9	81.2	80.4	81.4	80.8	81.9	82.9	83.1	84.4
72.5°	71.5	71.1	70.7	70.1	69.7	69.6	69.6	70.9	71.6	71.3	72.7
75°	55.9	55.5	55.0	54.0	54.0	53.4	53.6	54.4	55.3	54.7	55.9
77.5°	41.0	39.8	39.7	39.9	39.2	39.4	39.1	39.1	39.4	39.4	40.6
80°	31.6	30.1	30.5	30.3	30.1	29.9	29.5	29.7	29.9	30.1	30.8
82.5°	22.7	22.6	22.2	22.2	21.9	21.4	21.2	21.6	21.8	21.7	22.1
85°	11.6	11.0	11.4	11.2	11.4	11.2	10.6	10.6	11.0	10.8	11.2
87.5°	7.0	6.9	6.2	6.1	5.4	5.3	4.7	4.5	4.5	4.1	4.1
90°	17.4	16.8	14.7	12.7	10.7	8.6	6.9	5.4	3.8	2.2	0.7
92.5°	18.8	17.8	16.3	14.8	13.3	11.8	11.2	11.7	12.1	12.6	12.9
95°	22.7	21.6	19.9	18.2	16.5	14.8	17.1	23.5	29.8	36.2	42.5
97.5°	23.7	22.5	33.6	44.8	55.9	67.1	74.1	77.0	79.8	82.7	85.4
100°	24.3	23.0	47.2	71.3	95.5	119.7	130.2	127.1	124.0	120.9	117.8
102.5°	42.0	45.8	72.2	98.6	125.1	151.5	163.5	161.3	159.1	156.9	154.6
105°	125.3	152.7	166.6	180.6	194.5	208.5	214.5	212.9	211.2	209.5	207.8
107.5°	259.8	279.8	277.6	275.4	273.2	271.0	269.2	267.9	266.5	265.2	263.8
110°	309.3	314.4	312.7	311.0	309.3	307.6	306.1	304.9	303.6	302.4	301.1



TEST NUMBER: P331883-940

CATALOG NUMBER: S123DIP-S340D805U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	349.6	349.6	347.9	346.2	344.5	342.7	341.3	340.2	339.1	338.0	336.9
115°	401.7	400.2	398.8	397.3	396.0	394.6	393.4	392.5	391.6	390.7	389.7
117.5°	450.5	449.2	448.5	447.8	447.1	446.4	445.4	444.3	443.2	442.0	440.9
120°	482.2	481.0	480.5	480.1	479.7	479.2	478.2	476.8	475.5	474.0	472.7
122.5°	513.7	512.8	512.2	511.7	511.0	510.4	509.6	508.5	507.3	506.1	505.0
125°	558.0	557.7	557.1	556.4	555.9	555.3	554.3	553.0	551.8	550.5	549.4
127.5°	601.7	601.2	600.5	599.8	599.0	598.2	597.3	596.0	594.8	593.5	592.3
130°	628.0	627.4	626.8	626.2	625.5	624.9	624.0	622.8	621.5	620.3	619.0
132.5°	653.2	652.6	652.0	651.5	651.0	650.5	649.7	648.5	647.2	646.0	644.7
135°	691.3	690.9	690.3	689.6	689.0	688.4	687.6	686.7	685.7	684.8	683.9
137.5°	725.0	724.2	723.8	723.5	723.2	722.8	722.0	720.9	719.7	718.5	717.4
140°	746.5	745.9	745.5	745.0	744.6	744.0	743.4	742.4	741.5	740.6	739.7
142.5°	767.0	766.6	766.1	765.6	765.2	764.7	764.0	763.1	762.1	761.3	760.3
145°	795.8	795.4	795.1	794.8	794.5	794.2	793.5	792.4	791.3	790.2	789.2
147.5°	821.3	820.9	820.6	820.3	820.0	819.7	819.2	818.5	817.8	817.1	816.4
150°	836.9	836.6	836.2	836.0	835.6	835.4	834.9	834.5	834.0	833.6	833.0
152.5°	850.5	850.0	849.8	849.5	849.4	849.2	849.0	848.8	848.6	848.4	848.1
155°	869.4	868.6	868.4	868.3	868.2	868.0	868.1	868.4	868.7	869.1	869.3
157.5°	885.9	884.9	885.1	885.3	885.4	885.6	885.6	885.6	885.7	885.7	885.7
160°	895.4	894.4	894.6	894.7	894.9	895.0	895.2	895.4	895.5	895.6	895.8
162.5°	903.8	902.8	902.9	903.1	903.2	903.4	903.7	904.1	904.5	904.9	905.3
165°	915.2	913.9	914.1	914.3	914.4	914.5	914.9	915.3	915.8	916.2	916.8
167.5°	924.1	922.8	922.8	922.8	922.8	922.8	923.2	923.8	924.4	925.1	925.7
170°	929.2	927.9	927.9	927.9	927.9	927.9	928.2	928.8	929.4	930.1	930.7
172.5°	932.5	931.2	931.1	930.9	930.9	930.8	931.0	931.7	932.6	933.3	934.0
175°	936.7	935.6	935.4	935.2	935.0	935.0	935.2	936.0	936.8	937.5	938.3
177.5°	938.3	937.2	937.1	937.0	936.8	936.7	937.0	937.6	938.3	938.9	939.4
180°	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3



TEST NUMBER: P331883-940

CATALOG NUMBER: S123DIP-S340D805U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	431.4	432.3	435.1	437.1	439.4	440.8	442.0	443.1	444.4	444.7	449.5
5°	433.4	437.5	444.8	450.1	456.8	464.0	469.0	471.4	477.4	482.3	492.3
7.5°	432.8	441.7	452.6	464.0	476.2	487.5	497.3	509.0	517.2	529.7	541.9
10°	432.3	444.2	458.3	472.8	489.8	505.6	519.8	535.6	548.7	565.9	580.6
12.5°	430.8	445.1	464.8	482.0	502.7	524.4	545.4	565.6	577.2	605.9	619.5
15°	427.1	444.2	468.7	494.8	523.3	549.0	575.6	596.8	631.1	656.2	672.3
17.5°	420.1	443.9	473.0	504.5	539.1	573.1	603.2	635.3	671.7	702.1	734.6
20°	416.7	442.9	475.3	510.2	546.2	584.6	618.8	657.5	697.1	727.1	768.7
22.5°	410.5	440.2	475.1	514.0	552.4	592.2	632.3	671.3	717.1	758.3	797.9
25°	400.6	433.7	469.9	513.4	558.4	598.2	646.3	698.0	745.7	798.8	838.2
27.5°	389.9	425.4	461.6	502.0	550.5	597.9	658.3	716.7	775.1	820.8	850.1
30°	381.8	416.3	453.7	494.5	542.4	598.7	666.2	730.0	786.9	826.2	842.6
32.5°	373.0	408.0	441.0	483.8	534.9	598.2	671.2	737.8	787.6	813.7	810.5
35°	359.2	388.4	420.7	461.8	522.0	594.5	674.1	738.5	769.0	763.4	721.0
37.5°	339.2	363.9	395.6	440.6	507.1	586.8	668.2	716.6	714.6	669.0	607.5
40°	326.8	347.8	378.3	425.6	495.4	581.8	659.2	690.5	664.0	600.1	526.6
42.5°	310.5	329.8	360.3	409.0	482.7	571.8	641.7	650.8	598.8	525.4	458.0
45°	285.3	302.3	333.9	384.1	463.4	549.7	599.1	576.8	506.8	431.1	379.8
47.5°	258.1	275.8	306.1	357.8	435.7	516.5	540.0	492.8	420.9	359.4	312.3
50°	240.9	258.0	287.8	339.8	417.0	489.2	499.0	437.9	371.8	317.8	279.2
52.5°	223.7	239.7	268.9	321.3	395.0	457.6	451.7	389.4	328.7	282.6	252.3
55°	198.0	213.1	240.9	290.0	357.1	406.7	385.0	325.6	275.3	239.5	216.4
57.5°	175.0	189.5	213.5	257.8	316.1	350.3	322.5	272.4	232.5	204.9	187.8
60°	159.3	172.2	195.1	236.2	286.9	312.8	285.4	241.2	207.5	185.5	170.1
62.5°	144.5	155.8	176.9	214.3	258.3	280.1	252.4	214.9	186.3	166.7	153.6
65°	122.2	132.3	151.1	180.1	216.2	230.8	206.9	176.6	154.4	139.8	131.1
67.5°	101.7	110.4	126.5	149.4	176.0	186.5	168.4	144.9	128.1	116.5	109.6
70°	88.1	95.6	108.3	128.0	152.0	160.2	143.1	123.8	111.6	102.2	95.8
72.5°	76.6	82.1	93.6	108.9	128.9	135.4	123.5	106.6	95.1	88.1	82.9
75°	58.4	63.0	70.4	82.7	96.6	100.3	91.4	80.8	73.1	68.1	64.2
77.5°	42.1	45.5	50.8	58.4	68.0	71.4	65.8	58.7	53.1	49.8	47.5
80°	31.7	34.5	39.1	45.3	51.1	53.0	49.7	44.2	40.3	38.4	36.6
82.5°	23.5	25.0	27.7	32.0	35.9	38.2	35.4	32.1	30.0	28.3	27.6
85°	11.9	12.7	13.9	15.6	18.1	18.9	17.8	17.0	15.8	14.7	14.7
87.5°	4.7	5.1	5.9	6.5	7.6	8.5	8.6	8.7	9.0	8.9	8.9
90°	2.2	3.8	5.4	6.9	8.6	10.7	12.7	14.7	16.8	17.4	18.0
92.5°	12.6	12.1	11.7	11.2	11.8	13.3	14.8	16.3	17.8	18.8	19.8
95°	36.2	29.8	23.5	17.1	14.8	16.5	18.2	19.9	21.6	22.7	23.8
97.5°	82.7	79.8	77.0	74.1	67.1	55.9	44.8	33.6	22.5	23.7	25.0
100°	120.9	124.0	127.1	130.2	119.7	95.5	71.3	47.2	23.0	24.3	25.5
102.5°	156.9	159.1	161.3	163.5	151.5	125.1	98.6	72.2	45.8	42.0	38.2
105°	209.5	211.2	212.9	214.5	208.5	194.5	180.6	166.6	152.7	125.3	97.8
107.5°	265.2	266.5	267.9	269.2	271.0	273.2	275.4	277.6	279.8	259.8	239.6
110°	302.4	303.6	304.9	306.1	307.6	309.3	311.0	312.7	314.4	309.3	304.2



TEST NUMBER: P331883-940

CATALOG NUMBER: S123DIP-S340D805U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	338.0	339.1	340.2	341.3	342.7	344.5	346.2	347.9	349.6	349.6	349.7
115°	390.7	391.6	392.5	393.4	394.6	396.0	397.3	398.8	400.2	401.7	403.2
117.5°	442.0	443.2	444.3	445.4	446.4	447.1	447.8	448.5	449.2	450.5	451.7
120°	474.0	475.5	476.8	478.2	479.2	479.7	480.1	480.5	481.0	482.2	483.5
122.5°	506.1	507.3	508.5	509.6	510.4	511.0	511.7	512.2	512.8	513.7	514.5
125°	550.5	551.8	553.0	554.3	555.3	555.9	556.4	557.1	557.7	558.0	558.3
127.5°	593.5	594.8	596.0	597.3	598.2	599.0	599.8	600.5	601.2	601.7	602.2
130°	620.3	621.5	622.8	624.0	624.9	625.5	626.2	626.8	627.4	628.0	628.7
132.5°	646.0	647.2	648.5	649.7	650.5	651.0	651.5	652.0	652.6	653.2	653.7
135°	684.8	685.7	686.7	687.6	688.4	689.0	689.6	690.3	690.9	691.3	691.8
137.5°	718.5	719.7	720.9	722.0	722.8	723.2	723.5	723.8	724.2	725.0	725.7
140°	740.6	741.5	742.4	743.4	744.0	744.6	745.0	745.5	745.9	746.5	747.2
142.5°	761.3	762.1	763.1	764.0	764.7	765.2	765.6	766.1	766.6	767.0	767.6
145°	790.2	791.3	792.4	793.5	794.2	794.5	794.8	795.1	795.4	795.8	796.0
147.5°	817.1	817.8	818.5	819.2	819.7	820.0	820.3	820.6	820.9	821.3	821.5
150°	833.6	834.0	834.5	834.9	835.4	835.6	836.0	836.2	836.6	836.9	837.1
152.5°	848.4	848.6	848.8	849.0	849.2	849.4	849.5	849.8	850.0	850.5	851.0
155°	869.1	868.7	868.4	868.1	868.0	868.2	868.3	868.4	868.6	869.4	870.2
157.5°	885.7	885.7	885.6	885.6	885.6	885.4	885.3	885.1	884.9	885.9	886.8
160°	895.6	895.5	895.4	895.2	895.0	894.9	894.7	894.6	894.4	895.4	896.3
162.5°	904.9	904.5	904.1	903.7	903.4	903.2	903.1	902.9	902.8	903.8	904.9
165°	916.2	915.8	915.3	914.9	914.5	914.4	914.3	914.1	913.9	915.2	916.4
167.5°	925.1	924.4	923.8	923.2	922.8	922.8	922.8	922.8	922.8	924.1	925.3
170°	930.1	929.4	928.8	928.2	927.9	927.9	927.9	927.9	927.9	929.2	930.3
172.5°	933.3	932.6	931.7	931.0	930.8	930.9	930.9	931.1	931.2	932.5	933.7
175°	937.5	936.8	936.0	935.2	935.0	935.0	935.2	935.4	935.6	936.7	937.7
177.5°	938.9	938.3	937.6	937.0	936.7	936.8	937.0	937.1	937.2	938.3	939.2
180°	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3	938.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	451.2	451.4	453.2	454.5	453.9	454.7	455.0
5°	492.9	500.4	504.4	507.3	507.5	507.7	509.3
7.5°	552.1	560.2	566.1	575.0	577.6	580.6	579.8
10°	595.4	607.3	617.4	622.8	628.7	637.1	630.3
12.5°	635.8	656.7	672.3	680.6	686.1	687.8	684.5
15°	702.4	729.8	744.5	744.1	762.8	770.9	758.2
17.5°	763.4	788.7	809.0	819.4	835.0	838.4	836.9
20°	800.8	828.5	844.3	862.1	870.2	877.4	878.7
22.5°	833.0	857.9	874.9	889.7	896.4	899.9	902.0
25°	866.3	885.8	896.0	901.2	903.0	902.6	899.9
27.5°	864.0	865.5	854.3	843.3	833.4	822.3	818.5
30°	841.5	824.1	792.9	775.3	749.3	728.7	737.1
32.5°	782.6	747.8	712.8	674.2	642.3	633.2	624.0
35°	667.9	606.8	571.1	529.5	512.9	496.3	484.8
37.5°	540.3	493.1	450.7	423.6	406.9	396.4	390.7
40°	467.2	424.6	389.7	367.7	355.0	343.2	341.5
42.5°	408.8	369.3	343.0	325.5	313.3	308.3	304.6
45°	334.8	307.3	289.6	277.1	269.0	265.9	261.7
47.5°	283.5	263.9	250.7	242.2	236.0	233.7	233.4
50°	254.7	238.4	228.7	222.0	217.3	216.4	213.1
52.5°	233.1	219.0	211.4	205.6	202.2	199.8	198.9
55°	202.3	193.0	186.1	182.8	180.1	177.8	177.8
57.5°	177.0	169.2	164.7	161.8	161.0	159.4	158.4
60°	161.4	154.8	151.2	148.7	147.0	147.3	145.4
62.5°	146.2	141.8	138.4	136.0	133.9	134.0	134.1
65°	124.4	121.1	118.6	117.8	116.5	115.1	115.5
67.5°	105.5	102.4	100.4	99.0	98.5	97.7	99.0
70°	91.8	89.5	88.1	86.9	86.4	86.6	87.7
72.5°	79.4	77.8	76.8	76.2	75.3	75.3	76.1
75°	62.3	61.1	60.3	59.7	59.4	59.4	59.4
77.5°	45.7	45.5	45.1	44.2	44.2	44.5	44.5
80°	36.1	35.5	35.3	34.9	34.2	33.9	34.9
82.5°	27.0	26.4	26.2	26.1	25.1	25.1	25.9
85°	14.5	13.9	14.1	13.9	13.9	13.7	13.7
87.5°	8.8	8.8	8.7	9.0	8.9	8.7	9.2
90°	18.5	19.2	19.7	20.0	20.3	20.6	21.0
92.5°	20.8	21.8	22.4	22.6	22.7	22.9	23.2
95°	24.9	25.9	26.5	26.5	26.5	26.5	26.5
97.5°	26.1	27.4	28.1	28.3	28.4	28.5	28.7
100°	26.8	28.0	28.6	28.8	29.0	29.2	29.2
102.5°	34.3	30.5	28.7	29.0	29.2	29.5	29.9
105°	70.4	43.0	29.4	29.8	30.1	30.4	30.7
107.5°	219.5	199.4	179.0	158.4	137.7	117.0	96.3
110°	299.1	294.0	280.4	258.2	236.0	213.8	191.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	349.8	349.9	347.6	343.0	338.2	333.6	329.0
115°	404.8	406.4	407.4	408.0	408.7	409.3	409.9
117.5°	453.0	454.1	454.9	455.0	455.1	455.2	455.4
120°	484.7	486.0	486.6	486.6	486.6	486.6	486.6
122.5°	515.4	516.3	516.7	516.9	517.0	517.2	517.3
125°	558.7	558.9	559.3	559.5	559.9	560.2	560.5
127.5°	602.7	603.2	603.2	603.0	602.7	602.4	602.1
130°	629.3	629.9	630.1	629.7	629.5	629.1	628.8
132.5°	654.3	655.0	655.1	654.7	654.2	653.8	653.4
135°	692.2	692.7	692.7	692.2	691.8	691.3	690.9
137.5°	726.4	727.2	727.4	727.1	726.7	726.5	726.1
140°	747.8	748.4	748.6	748.2	748.0	747.6	747.3
142.5°	768.0	768.6	768.6	768.1	767.7	767.3	766.9
145°	796.4	796.7	796.8	796.8	796.8	796.8	796.8
147.5°	821.9	822.2	822.0	821.3	820.6	819.8	819.1
150°	837.5	837.8	837.8	837.2	836.8	836.3	835.9
152.5°	851.6	852.2	852.1	851.4	850.7	850.0	849.3
155°	870.9	871.7	871.6	870.8	869.8	868.9	867.9
157.5°	887.7	888.7	888.5	887.3	886.1	884.9	883.7
160°	897.2	898.1	898.0	897.0	895.9	894.8	893.8
162.5°	906.0	907.0	907.0	906.1	905.1	904.2	903.2
165°	917.7	918.9	919.0	917.9	916.8	915.7	914.6
167.5°	926.6	927.8	927.8	926.6	925.3	924.1	922.8
170°	931.6	932.8	932.8	931.6	930.3	929.2	927.9
172.5°	935.0	936.2	936.1	934.8	933.4	932.0	930.7
175°	938.8	939.9	939.8	938.6	937.4	936.1	934.9
177.5°	940.2	941.2	941.1	939.9	938.6	937.4	936.1
180°	938.3	938.3	938.3	938.3	938.3	938.3	938.3

(END OF REPORT)