

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: P331884-940

Luminaire Tested: **S123DIP-S340D805U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331884-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
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-A1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 805 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3755.7 lumens  
Efficiency: N/A  
Efficacy: 120.4 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: Semi-Indirect

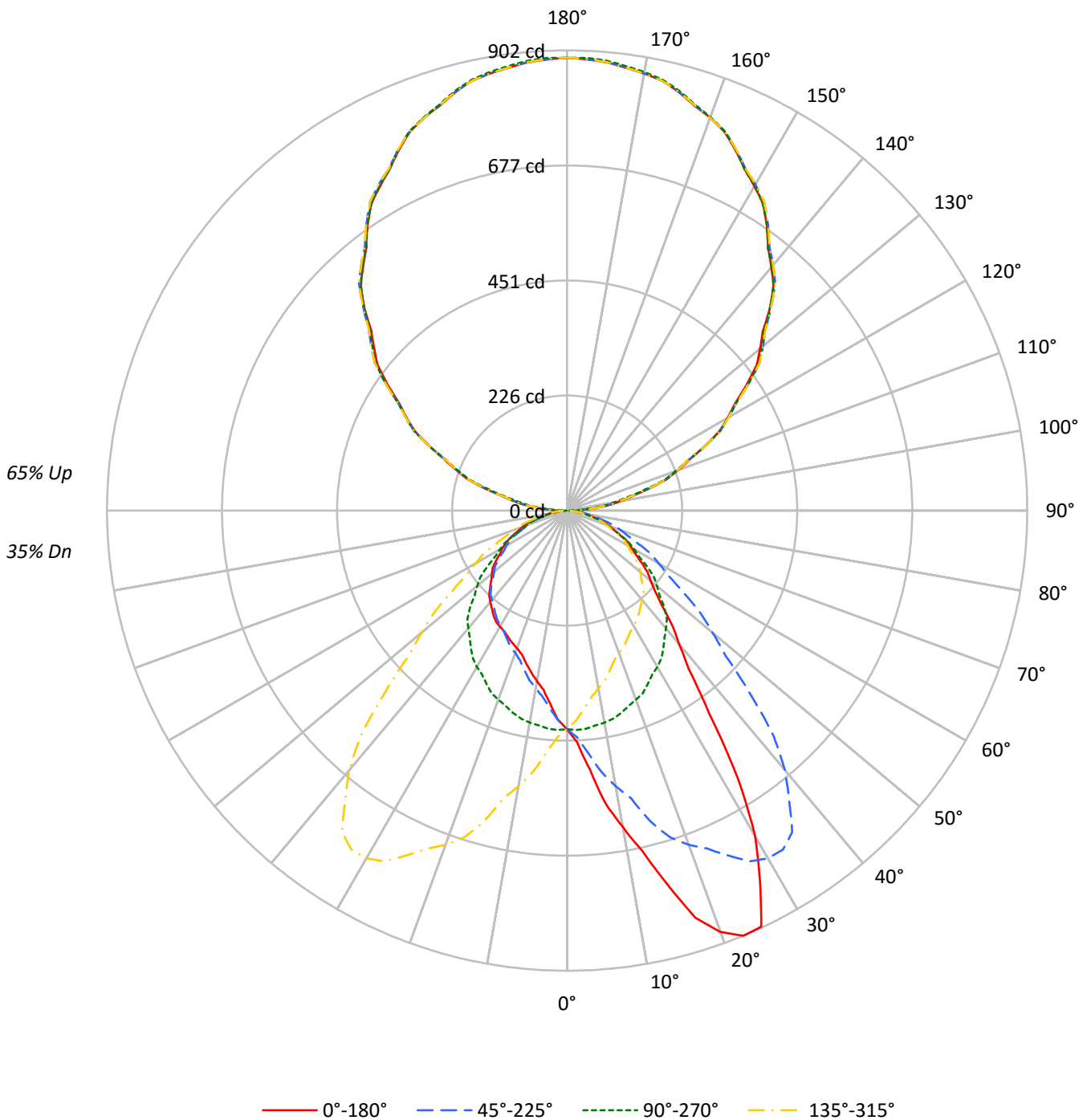
Input Watts (W): 31.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	93	93	93	93	75	75	75	58	58	58	42	42	42	35
1	95	90	87	83	85	82	79	76	66	64	62	51	50	48	37	36	36	29
2	86	79	73	68	78	72	67	62	58	54	51	45	43	41	33	32	30	25
3	79	70	63	57	71	63	57	52	51	47	43	40	37	34	29	28	26	21
4	72	62	54	48	65	56	49	44	45	41	37	35	32	30	26	24	22	18
5	66	55	47	41	59	50	43	38	41	36	32	32	28	26	24	21	20	16
6	61	49	41	36	55	45	38	33	36	31	28	29	25	22	22	19	17	14
7	56	44	37	31	51	40	34	29	33	28	24	26	22	20	20	17	15	13
8	52	40	33	27	47	37	30	25	30	25	21	24	20	18	18	16	14	11
9	48	36	29	24	44	33	27	23	27	23	19	22	18	16	17	14	12	10
10	45	33	26	22	41	31	24	20	25	20	17	20	17	14	15	13	11	9

**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	1.1
10°-20°	135.4	3.6
20°-30°	227.3	6.1
30°-40°	257.4	6.9
40°-50°	230.8	6.1
50°-60°	186.3	5.0
60°-70°	129.8	3.5
70°-80°	68.2	1.8
80°-90°	19.3	0.5
90°-100°	57.8	1.5
100°-110°	173.1	4.6
110°-120°	294.3	7.8
120°-130°	387.1	10.3
130°-140°	435.1	11.6
140°-150°	427.7	11.4
150°-160°	360.1	9.6
160°-170°	239.7	6.4
170°-180°	83.9	2.2
0°-30°	405.0	10.8
0°-40°	662.4	17.6
0°-60°	1079.4	28.7
0°-90°	1296.7	34.5
90°-120°	525.2	14.0
90°-150°	1775.2	47.3
90°-180°	2459.0	65.5
0°-180°	3755.7	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	11
95°	54	41	54	41	54	56
105°	166	157	166	157	166	176
115°	297	296	297	296	297	294
125°	429	434	429	434	429	383
135°	562	563	562	563	562	432
145°	682	682	682	682	682	426
155°	780	782	780	782	780	359
165°	848	851	848	851	848	239
175°	882	885	882	885	882	84
180°	888	888	888	888	888	



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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°	28.2	28.4	28.5	28.7	28.9	28.7	28.3	27.7	27.3	26.8	25.6
95°	54.4	54.4	54.4	54.4	54.4	54.0	53.4	52.8	52.3	51.6	50.4
97.5°	83.6	83.7	83.8	83.8	83.9	83.6	82.8	82.1	81.4	80.7	79.8
100°	105.9	105.7	105.3	105.0	104.8	104.3	103.9	103.4	103.0	102.5	101.7
102.5°	128.9	128.9	128.9	129.0	129.1	128.9	128.4	128.0	127.5	127.1	126.0
105°	165.9	165.6	165.3	165.0	164.7	164.5	164.5	164.5	164.5	164.5	163.2
107.5°	204.6	204.7	204.9	205.1	205.3	205.2	204.6	204.1	203.7	203.1	202.6
110°	230.8	231.0	231.4	231.7	232.0	231.8	231.2	230.6	230.0	229.3	229.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	258.7	258.7	258.8	258.9	258.9	258.6	257.8	257.1	256.4	255.6	255.6
115°	297.0	297.1	297.3	297.5	297.7	297.7	297.5	297.3	297.1	297.0	297.3
117.5°	335.9	336.4	336.8	337.2	337.6	337.9	337.9	338.0	338.0	338.0	338.4
120°	363.2	363.6	363.8	364.2	364.4	364.7	364.9	365.0	365.2	365.3	366.1
122.5°	389.4	389.9	390.3	390.7	391.2	391.6	392.0	392.4	392.8	393.2	393.6
125°	428.7	429.4	430.0	430.6	431.2	431.9	432.5	433.1	433.7	434.4	434.6
127.5°	468.0	468.7	469.4	470.1	470.8	471.6	472.4	473.3	474.2	475.0	475.4
130°	493.6	494.7	495.8	496.9	497.9	498.8	499.4	500.1	500.6	501.2	501.8
132.5°	520.4	521.2	522.0	522.9	523.7	524.5	525.2	526.0	526.7	527.4	527.8
135°	562.0	562.2	562.6	562.8	563.2	563.7	564.3	564.9	565.5	566.1	566.2
137.5°	598.6	599.2	599.8	600.4	600.9	601.5	602.3	602.9	603.5	604.1	603.8
140°	622.6	623.7	624.7	625.8	627.0	627.5	627.7	627.9	628.0	628.1	628.0
142.5°	647.1	647.9	648.8	649.6	650.5	650.9	651.1	651.3	651.4	651.6	651.3
145°	682.5	683.1	683.8	684.4	685.0	685.4	685.5	685.7	685.9	686.0	685.5
147.5°	714.1	715.0	715.9	716.8	717.7	718.3	718.3	718.3	718.3	718.3	717.8
150°	734.1	735.0	736.0	736.9	737.9	738.3	738.3	738.3	738.3	738.3	738.0
152.5°	753.7	754.5	755.3	756.1	756.9	757.2	756.9	756.6	756.4	756.2	756.0
155°	780.2	781.2	782.3	783.4	784.4	784.7	784.1	783.5	782.8	782.2	782.1
157.5°	804.2	805.1	806.0	806.9	807.7	807.8	807.2	806.6	805.9	805.2	805.1
160°	819.8	820.5	821.1	821.7	822.3	822.2	821.5	820.7	819.9	819.2	819.2
162.5°	831.6	832.6	833.6	834.6	835.5	835.7	834.9	834.1	833.3	832.6	832.4
165°	848.5	849.5	850.6	851.8	852.8	852.9	851.9	851.0	850.1	849.2	849.2
167.5°	862.8	863.8	864.8	865.7	866.7	866.7	865.7	864.8	863.8	862.8	862.7
170°	870.0	871.2	872.3	873.3	874.4	874.4	873.3	872.3	871.2	870.0	870.0
172.5°	875.7	876.7	877.8	878.9	880.0	880.0	879.1	878.2	877.2	876.2	876.2
175°	881.9	883.0	884.1	885.2	886.3	886.4	885.4	884.5	883.6	882.6	882.6
177.5°	885.3	886.2	887.0	887.9	888.8	888.8	888.1	887.3	886.5	885.8	885.8
180°	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5



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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°	24.5	23.4	22.2	21.0	20.1	19.0	17.9	16.9	17.9	19.0	20.1
95°	49.1	47.9	46.6	45.5	44.4	43.3	42.2	41.1	42.2	43.3	44.4
97.5°	78.9	78.0	77.1	76.3	75.4	74.6	73.8	73.0	73.8	74.6	75.4
100°	100.9	100.1	99.4	98.5	97.6	96.7	95.8	94.8	95.8	96.7	97.6
102.5°	125.0	123.9	123.0	122.2	121.6	121.0	120.5	119.9	120.5	121.0	121.6
105°	161.8	160.3	159.0	158.1	157.8	157.5	157.2	156.9	157.2	157.5	157.8
107.5°	202.1	201.5	200.9	200.5	200.4	200.2	200.0	199.8	200.0	200.2	200.4
110°	228.7	228.5	228.1	227.8	227.5	227.2	226.9	226.6	226.9	227.2	227.5





TEST NUMBER: P331884-940

CATALOG NUMBER: S123DIP-S340D805U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	255.5	255.4	255.3	255.2	255.0	254.9	254.7	254.5	254.7	254.9	255.0
115°	297.7	297.9	298.3	298.2	297.7	297.2	296.8	296.3	296.8	297.2	297.7
117.5°	338.8	339.2	339.6	339.7	339.3	339.0	338.8	338.4	338.8	339.0	339.3
120°	366.8	367.7	368.5	368.4	367.4	366.5	365.5	364.6	365.5	366.5	367.4
122.5°	394.0	394.4	394.8	394.7	394.0	393.3	392.6	392.0	392.6	393.3	394.0
125°	435.0	435.2	435.6	435.5	435.1	434.5	434.1	433.6	434.1	434.5	435.1
127.5°	475.7	476.1	476.4	476.1	475.1	474.1	473.1	472.2	473.1	474.1	475.1
130°	502.2	502.7	503.1	502.7	501.5	500.2	499.0	497.8	499.0	500.2	501.5
132.5°	528.2	528.5	528.9	528.4	527.2	525.9	524.7	523.4	524.7	525.9	527.2
135°	566.4	566.6	566.8	566.3	565.4	564.5	563.6	562.6	563.6	564.5	565.4
137.5°	603.3	603.0	602.5	602.0	601.2	600.4	599.7	598.9	599.7	600.4	601.2
140°	627.9	627.7	627.5	627.1	626.3	625.5	624.7	623.9	624.7	625.5	626.3
142.5°	651.0	650.8	650.5	650.0	649.2	648.4	647.6	646.8	647.6	648.4	649.2
145°	685.1	684.7	684.1	683.8	683.5	683.1	682.9	682.5	682.9	683.1	683.5
147.5°	717.4	716.9	716.5	716.0	715.4	714.9	714.3	713.8	714.3	714.9	715.4
150°	737.7	737.4	737.1	736.7	736.5	736.1	735.8	735.5	735.8	736.1	736.5
152.5°	755.8	755.6	755.5	755.1	754.7	754.2	753.8	753.4	753.8	754.2	754.7
155°	781.9	781.8	781.6	781.5	781.5	781.5	781.5	781.5	781.5	781.5	781.5
157.5°	805.0	804.9	804.8	804.8	804.9	805.1	805.3	805.5	805.3	805.1	804.9
160°	819.2	819.2	819.2	819.3	819.7	819.9	820.3	820.6	820.3	819.9	819.7
162.5°	832.3	832.2	832.1	832.2	832.7	833.1	833.6	833.9	833.6	833.1	832.7
165°	849.2	849.2	849.2	849.4	849.9	850.3	850.8	851.2	850.8	850.3	849.9
167.5°	862.6	862.5	862.4	862.6	863.2	863.8	864.4	865.0	864.4	863.8	863.2
170°	870.0	870.0	870.0	870.4	871.0	871.6	872.3	872.9	872.3	871.6	871.0
172.5°	876.2	876.2	876.2	876.6	877.2	877.8	878.4	879.0	878.4	877.8	877.2
175°	882.6	882.6	882.6	883.0	883.6	884.2	884.8	885.4	884.8	884.2	883.6
177.5°	885.8	885.8	885.8	886.1	886.5	887.1	887.6	888.1	887.6	887.1	886.5
180°	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5



TEST NUMBER: P331884-940

CATALOG NUMBER: S123DIP-S340D805U940-4F0-1E-UDD-A1

**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°	21.0	22.2	23.4	24.5	25.6	26.8	27.3	27.7	28.3	28.7	28.9
95°	45.5	46.6	47.9	49.1	50.4	51.6	52.3	52.8	53.4	54.0	54.4
97.5°	76.3	77.1	78.0	78.9	79.8	80.7	81.4	82.1	82.8	83.6	83.9
100°	98.5	99.4	100.1	100.9	101.7	102.5	103.0	103.4	103.9	104.3	104.8
102.5°	122.2	123.0	123.9	125.0	126.0	127.1	127.5	128.0	128.4	128.9	129.1
105°	158.1	159.0	160.3	161.8	163.2	164.5	164.5	164.5	164.5	164.5	164.7
107.5°	200.5	200.9	201.5	202.1	202.6	203.1	203.7	204.1	204.6	205.2	205.3
110°	227.8	228.1	228.5	228.7	229.1	229.3	230.0	230.6	231.2	231.8	232.0



TEST NUMBER: P331884-940

CATALOG NUMBER: S123DIP-S340D805U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	255.2	255.3	255.4	255.5	255.6	255.6	256.4	257.1	257.8	258.6	258.9
115°	298.2	298.3	297.9	297.7	297.3	297.0	297.1	297.3	297.5	297.7	297.7
117.5°	339.7	339.6	339.2	338.8	338.4	338.0	338.0	338.0	337.9	337.9	337.6
120°	368.4	368.5	367.7	366.8	366.1	365.3	365.2	365.0	364.9	364.7	364.4
122.5°	394.7	394.8	394.4	394.0	393.6	393.2	392.8	392.4	392.0	391.6	391.2
125°	435.5	435.6	435.2	435.0	434.6	434.4	433.7	433.1	432.5	431.9	431.2
127.5°	476.1	476.4	476.1	475.7	475.4	475.0	474.2	473.3	472.4	471.6	470.8
130°	502.7	503.1	502.7	502.2	501.8	501.2	500.6	500.1	499.4	498.8	497.9
132.5°	528.4	528.9	528.5	528.2	527.8	527.4	526.7	526.0	525.2	524.5	523.7
135°	566.3	566.8	566.6	566.4	566.2	566.1	565.5	564.9	564.3	563.7	563.2
137.5°	602.0	602.5	603.0	603.3	603.8	604.1	603.5	602.9	602.3	601.5	600.9
140°	627.1	627.5	627.7	627.9	628.0	628.1	628.0	627.9	627.7	627.5	627.0
142.5°	650.0	650.5	650.8	651.0	651.3	651.6	651.4	651.3	651.1	650.9	650.5
145°	683.8	684.1	684.7	685.1	685.5	686.0	685.9	685.7	685.5	685.4	685.0
147.5°	716.0	716.5	716.9	717.4	717.8	718.3	718.3	718.3	718.3	718.3	717.7
150°	736.7	737.1	737.4	737.7	738.0	738.3	738.3	738.3	738.3	738.3	737.9
152.5°	755.1	755.5	755.6	755.8	756.0	756.2	756.4	756.6	756.9	757.2	756.9
155°	781.5	781.6	781.8	781.9	782.1	782.2	782.8	783.5	784.1	784.7	784.4
157.5°	804.8	804.8	804.9	805.0	805.1	805.2	805.9	806.6	807.2	807.8	807.7
160°	819.3	819.2	819.2	819.2	819.2	819.2	819.9	820.7	821.5	822.2	822.3
162.5°	832.2	832.1	832.2	832.3	832.4	832.6	833.3	834.1	834.9	835.7	835.5
165°	849.4	849.2	849.2	849.2	849.2	849.2	850.1	851.0	851.9	852.9	852.8
167.5°	862.6	862.4	862.5	862.6	862.7	862.8	863.8	864.8	865.7	866.7	866.7
170°	870.4	870.0	870.0	870.0	870.0	870.0	871.2	872.3	873.3	874.4	874.4
172.5°	876.6	876.2	876.2	876.2	876.2	876.2	877.2	878.2	879.1	880.0	880.0
175°	883.0	882.6	882.6	882.6	882.6	882.6	883.6	884.5	885.4	886.4	886.3
177.5°	886.1	885.8	885.8	885.8	885.8	885.8	886.5	887.3	888.1	888.8	888.8
180°	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5



TEST NUMBER: P331884-940

CATALOG NUMBER: S123DIP-S340D805U940-4F0-1E-UDD-A1

**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°	28.7	28.5	28.4	28.2	28.4	28.5	28.7	28.9	28.7	28.3	27.7
95°	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.0	53.4	52.8
97.5°	83.8	83.8	83.7	83.6	83.7	83.8	83.8	83.9	83.6	82.8	82.1
100°	105.0	105.3	105.7	105.9	105.7	105.3	105.0	104.8	104.3	103.9	103.4
102.5°	129.0	128.9	128.9	128.9	128.9	128.9	129.0	129.1	128.9	128.4	128.0
105°	165.0	165.3	165.6	165.9	165.6	165.3	165.0	164.7	164.5	164.5	164.5
107.5°	205.1	204.9	204.7	204.6	204.7	204.9	205.1	205.3	205.2	204.6	204.1
110°	231.7	231.4	231.0	230.8	231.0	231.4	231.7	232.0	231.8	231.2	230.6



TEST NUMBER: P331884-940

CATALOG NUMBER: S123DIP-S340D805U940-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	258.9	258.8	258.7	258.7	258.7	258.8	258.9	258.9	258.6	257.8	257.1
115°	297.5	297.3	297.1	297.0	297.1	297.3	297.5	297.7	297.7	297.5	297.3
117.5°	337.2	336.8	336.4	335.9	336.4	336.8	337.2	337.6	337.9	337.9	338.0
120°	364.2	363.8	363.6	363.2	363.6	363.8	364.2	364.4	364.7	364.9	365.0
122.5°	390.7	390.3	389.9	389.4	389.9	390.3	390.7	391.2	391.6	392.0	392.4
125°	430.6	430.0	429.4	428.7	429.4	430.0	430.6	431.2	431.9	432.5	433.1
127.5°	470.1	469.4	468.7	468.0	468.7	469.4	470.1	470.8	471.6	472.4	473.3
130°	496.9	495.8	494.7	493.6	494.7	495.8	496.9	497.9	498.8	499.4	500.1
132.5°	522.9	522.0	521.2	520.4	521.2	522.0	522.9	523.7	524.5	525.2	526.0
135°	562.8	562.6	562.2	562.0	562.2	562.6	562.8	563.2	563.7	564.3	564.9
137.5°	600.4	599.8	599.2	598.6	599.2	599.8	600.4	600.9	601.5	602.3	602.9
140°	625.8	624.7	623.7	622.6	623.7	624.7	625.8	627.0	627.5	627.7	627.9
142.5°	649.6	648.8	647.9	647.1	647.9	648.8	649.6	650.5	650.9	651.1	651.3
145°	684.4	683.8	683.1	682.5	683.1	683.8	684.4	685.0	685.4	685.5	685.7
147.5°	716.8	715.9	715.0	714.1	715.0	715.9	716.8	717.7	718.3	718.3	718.3
150°	736.9	736.0	735.0	734.1	735.0	736.0	736.9	737.9	738.3	738.3	738.3
152.5°	756.1	755.3	754.5	753.7	754.5	755.3	756.1	756.9	757.2	756.9	756.6
155°	783.4	782.3	781.2	780.2	781.2	782.3	783.4	784.4	784.7	784.1	783.5
157.5°	806.9	806.0	805.1	804.2	805.1	806.0	806.9	807.7	807.8	807.2	806.6
160°	821.7	821.1	820.5	819.8	820.5	821.1	821.7	822.3	822.2	821.5	820.7
162.5°	834.6	833.6	832.6	831.6	832.6	833.6	834.6	835.5	835.7	834.9	834.1
165°	851.8	850.6	849.5	848.5	849.5	850.6	851.8	852.8	852.9	851.9	851.0
167.5°	865.7	864.8	863.8	862.8	863.8	864.8	865.7	866.7	866.7	865.7	864.8
170°	873.3	872.3	871.2	870.0	871.2	872.3	873.3	874.4	874.4	873.3	872.3
172.5°	878.9	877.8	876.7	875.7	876.7	877.8	878.9	880.0	880.0	879.1	878.2
175°	885.2	884.1	883.0	881.9	883.0	884.1	885.2	886.3	886.4	885.4	884.5
177.5°	887.9	887.0	886.2	885.3	886.2	887.0	887.9	888.8	888.8	888.1	887.3
180°	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5



TEST NUMBER: P331884-940

CATALOG NUMBER: S123DIP-S340D805U940-4F0-1E-UDD-A1

**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°	27.3	26.8	25.6	24.5	23.4	22.2	21.0	20.1	19.0	17.9	16.9
95°	52.3	51.6	50.4	49.1	47.9	46.6	45.5	44.4	43.3	42.2	41.1
97.5°	81.4	80.7	79.8	78.9	78.0	77.1	76.3	75.4	74.6	73.8	73.0
100°	103.0	102.5	101.7	100.9	100.1	99.4	98.5	97.6	96.7	95.8	94.8
102.5°	127.5	127.1	126.0	125.0	123.9	123.0	122.2	121.6	121.0	120.5	119.9
105°	164.5	164.5	163.2	161.8	160.3	159.0	158.1	157.8	157.5	157.2	156.9
107.5°	203.7	203.1	202.6	202.1	201.5	200.9	200.5	200.4	200.2	200.0	199.8
110°	230.0	229.3	229.1	228.7	228.5	228.1	227.8	227.5	227.2	226.9	226.6



TEST NUMBER: P331884-940

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	256.4	255.6	255.6	255.5	255.4	255.3	255.2	255.0	254.9	254.7	254.5
115°	297.1	297.0	297.3	297.7	297.9	298.3	298.2	297.7	297.2	296.8	296.3
117.5°	338.0	338.0	338.4	338.8	339.2	339.6	339.7	339.3	339.0	338.8	338.4
120°	365.2	365.3	366.1	366.8	367.7	368.5	368.4	367.4	366.5	365.5	364.6
122.5°	392.8	393.2	393.6	394.0	394.4	394.8	394.7	394.0	393.3	392.6	392.0
125°	433.7	434.4	434.6	435.0	435.2	435.6	435.5	435.1	434.5	434.1	433.6
127.5°	474.2	475.0	475.4	475.7	476.1	476.4	476.1	475.1	474.1	473.1	472.2
130°	500.6	501.2	501.8	502.2	502.7	503.1	502.7	501.5	500.2	499.0	497.8
132.5°	526.7	527.4	527.8	528.2	528.5	528.9	528.4	527.2	525.9	524.7	523.4
135°	565.5	566.1	566.2	566.4	566.6	566.8	566.3	565.4	564.5	563.6	562.6
137.5°	603.5	604.1	603.8	603.3	603.0	602.5	602.0	601.2	600.4	599.7	598.9
140°	628.0	628.1	628.0	627.9	627.7	627.5	627.1	626.3	625.5	624.7	623.9
142.5°	651.4	651.6	651.3	651.0	650.8	650.5	650.0	649.2	648.4	647.6	646.8
145°	685.9	686.0	685.5	685.1	684.7	684.1	683.8	683.5	683.1	682.9	682.5
147.5°	718.3	718.3	717.8	717.4	716.9	716.5	716.0	715.4	714.9	714.3	713.8
150°	738.3	738.3	738.0	737.7	737.4	737.1	736.7	736.5	736.1	735.8	735.5
152.5°	756.4	756.2	756.0	755.8	755.6	755.5	755.1	754.7	754.2	753.8	753.4
155°	782.8	782.2	782.1	781.9	781.8	781.6	781.5	781.5	781.5	781.5	781.5
157.5°	805.9	805.2	805.1	805.0	804.9	804.8	804.8	804.9	805.1	805.3	805.5
160°	819.9	819.2	819.2	819.2	819.2	819.2	819.3	819.7	819.9	820.3	820.6
162.5°	833.3	832.6	832.4	832.3	832.2	832.1	832.2	832.7	833.1	833.6	833.9
165°	850.1	849.2	849.2	849.2	849.2	849.2	849.4	849.9	850.3	850.8	851.2
167.5°	863.8	862.8	862.7	862.6	862.5	862.4	862.6	863.2	863.8	864.4	865.0
170°	871.2	870.0	870.0	870.0	870.0	870.0	870.4	871.0	871.6	872.3	872.9
172.5°	877.2	876.2	876.2	876.2	876.2	876.2	876.6	877.2	877.8	878.4	879.0
175°	883.6	882.6	882.6	882.6	882.6	882.6	883.0	883.6	884.2	884.8	885.4
177.5°	886.5	885.8	885.8	885.8	885.8	885.8	886.1	886.5	887.1	887.6	888.1
180°	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5



TEST NUMBER: P331884-940

CATALOG NUMBER: S123DIP-S340D805U940-4F0-1E-UDD-A1

**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°	17.9	19.0	20.1	21.0	22.2	23.4	24.5	25.6	26.8	27.3	27.7
95°	42.2	43.3	44.4	45.5	46.6	47.9	49.1	50.4	51.6	52.3	52.8
97.5°	73.8	74.6	75.4	76.3	77.1	78.0	78.9	79.8	80.7	81.4	82.1
100°	95.8	96.7	97.6	98.5	99.4	100.1	100.9	101.7	102.5	103.0	103.4
102.5°	120.5	121.0	121.6	122.2	123.0	123.9	125.0	126.0	127.1	127.5	128.0
105°	157.2	157.5	157.8	158.1	159.0	160.3	161.8	163.2	164.5	164.5	164.5
107.5°	200.0	200.2	200.4	200.5	200.9	201.5	202.1	202.6	203.1	203.7	204.1
110°	226.9	227.2	227.5	227.8	228.1	228.5	228.7	229.1	229.3	230.0	230.6





TEST NUMBER: P331884-940

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	254.7	254.9	255.0	255.2	255.3	255.4	255.5	255.6	255.6	256.4	257.1
115°	296.8	297.2	297.7	298.2	298.3	297.9	297.7	297.3	297.0	297.1	297.3
117.5°	338.8	339.0	339.3	339.7	339.6	339.2	338.8	338.4	338.0	338.0	338.0
120°	365.5	366.5	367.4	368.4	368.5	367.7	366.8	366.1	365.3	365.2	365.0
122.5°	392.6	393.3	394.0	394.7	394.8	394.4	394.0	393.6	393.2	392.8	392.4
125°	434.1	434.5	435.1	435.5	435.6	435.2	435.0	434.6	434.4	433.7	433.1
127.5°	473.1	474.1	475.1	476.1	476.4	476.1	475.7	475.4	475.0	474.2	473.3
130°	499.0	500.2	501.5	502.7	503.1	502.7	502.2	501.8	501.2	500.6	500.1
132.5°	524.7	525.9	527.2	528.4	528.9	528.5	528.2	527.8	527.4	526.7	526.0
135°	563.6	564.5	565.4	566.3	566.8	566.6	566.4	566.2	566.1	565.5	564.9
137.5°	599.7	600.4	601.2	602.0	602.5	603.0	603.3	603.8	604.1	603.5	602.9
140°	624.7	625.5	626.3	627.1	627.5	627.7	627.9	628.0	628.1	628.0	627.9
142.5°	647.6	648.4	649.2	650.0	650.5	650.8	651.0	651.3	651.6	651.4	651.3
145°	682.9	683.1	683.5	683.8	684.1	684.7	685.1	685.5	686.0	685.9	685.7
147.5°	714.3	714.9	715.4	716.0	716.5	716.9	717.4	717.8	718.3	718.3	718.3
150°	735.8	736.1	736.5	736.7	737.1	737.4	737.7	738.0	738.3	738.3	738.3
152.5°	753.8	754.2	754.7	755.1	755.5	755.6	755.8	756.0	756.2	756.4	756.6
155°	781.5	781.5	781.5	781.5	781.6	781.8	781.9	782.1	782.2	782.8	783.5
157.5°	805.3	805.1	804.9	804.8	804.8	804.9	805.0	805.1	805.2	805.9	806.6
160°	820.3	819.9	819.7	819.3	819.2	819.2	819.2	819.2	819.2	819.9	820.7
162.5°	833.6	833.1	832.7	832.2	832.1	832.2	832.3	832.4	832.6	833.3	834.1
165°	850.8	850.3	849.9	849.4	849.2	849.2	849.2	849.2	849.2	850.1	851.0
167.5°	864.4	863.8	863.2	862.6	862.4	862.5	862.6	862.7	862.8	863.8	864.8
170°	872.3	871.6	871.0	870.4	870.0	870.0	870.0	870.0	870.0	871.2	872.3
172.5°	878.4	877.8	877.2	876.6	876.2	876.2	876.2	876.2	876.2	877.2	878.2
175°	884.8	884.2	883.6	883.0	882.6	882.6	882.6	882.6	882.6	883.6	884.5
177.5°	887.6	887.1	886.5	886.1	885.8	885.8	885.8	885.8	885.8	886.5	887.3
180°	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5	887.5



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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°	28.3	28.7	28.9	28.7	28.5	28.4	28.2
95°	53.4	54.0	54.4	54.4	54.4	54.4	54.4
97.5°	82.8	83.6	83.9	83.8	83.8	83.7	83.6
100°	103.9	104.3	104.8	105.0	105.3	105.7	105.9
102.5°	128.4	128.9	129.1	129.0	128.9	128.9	128.9
105°	164.5	164.5	164.7	165.0	165.3	165.6	165.9
107.5°	204.6	205.2	205.3	205.1	204.9	204.7	204.6
110°	231.2	231.8	232.0	231.7	231.4	231.0	230.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	257.8	258.6	258.9	258.9	258.8	258.7	258.7
115°	297.5	297.7	297.7	297.5	297.3	297.1	297.0
117.5°	337.9	337.9	337.6	337.2	336.8	336.4	335.9
120°	364.9	364.7	364.4	364.2	363.8	363.6	363.2
122.5°	392.0	391.6	391.2	390.7	390.3	389.9	389.4
125°	432.5	431.9	431.2	430.6	430.0	429.4	428.7
127.5°	472.4	471.6	470.8	470.1	469.4	468.7	468.0
130°	499.4	498.8	497.9	496.9	495.8	494.7	493.6
132.5°	525.2	524.5	523.7	522.9	522.0	521.2	520.4
135°	564.3	563.7	563.2	562.8	562.6	562.2	562.0
137.5°	602.3	601.5	600.9	600.4	599.8	599.2	598.6
140°	627.7	627.5	627.0	625.8	624.7	623.7	622.6
142.5°	651.1	650.9	650.5	649.6	648.8	647.9	647.1
145°	685.5	685.4	685.0	684.4	683.8	683.1	682.5
147.5°	718.3	718.3	717.7	716.8	715.9	715.0	714.1
150°	738.3	738.3	737.9	736.9	736.0	735.0	734.1
152.5°	756.9	757.2	756.9	756.1	755.3	754.5	753.7
155°	784.1	784.7	784.4	783.4	782.3	781.2	780.2
157.5°	807.2	807.8	807.7	806.9	806.0	805.1	804.2
160°	821.5	822.2	822.3	821.7	821.1	820.5	819.8
162.5°	834.9	835.7	835.5	834.6	833.6	832.6	831.6
165°	851.9	852.9	852.8	851.8	850.6	849.5	848.5
167.5°	865.7	866.7	866.7	865.7	864.8	863.8	862.8
170°	873.3	874.4	874.4	873.3	872.3	871.2	870.0
172.5°	879.1	880.0	880.0	878.9	877.8	876.7	875.7
175°	885.4	886.4	886.3	885.2	884.1	883.0	881.9
177.5°	888.1	888.8	888.8	887.9	887.0	886.2	885.3
180°	887.5	887.5	887.5	887.5	887.5	887.5	887.5

(END OF REPORT)